HARMONS SPANISH FORK

NEW GROCERY STORE AND SITE WORK

2643 East 400 North
Spanish Fork, Utah

design Sequence
350 South 200 East, #106
Salt Lake City, Utah 84111
P: 801.596.0691
DesignUtah.com

STATE OF UTAH
KRISTEN IRELAND VOROS
No. 7557079-0301
LICENSED ARCHITECT

CODE ANALYSIS

APPLICABLE CODES			
	Year		Year
International Building Code	2024	National Electrical Code	2023
International Mechanical Code	2024		
International Plumbing Code	2024		
International Fire Code	2024	ADA Accessibility Guildelines	ANSI A117.1
International Energy Conservation Code	2024		

A. Occupancy and Group: M | B | A-2 | S-1 |

Change in Use: Yes _____ No X Mixed Occupancy: Yes _____ No X
Special Use and Occupancy (e.g. High Rise, Covered Mall): No

B. Seismic Design Category: _____ Design Wind Speed: 115 mph

C. Type of Construction (circle one):

I A | I B | II A | II B | III A | (III B) | IV HT | V A | V B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):
North: 0 South: 0 East: 0 West: 0

E. Mixed Occupancies: No Nonseparated Uses: No

F: Sprinklers:
Required: Yes Provided: Yes Type of Sprinkler System: Wet

G: Number of Stories: 2 Building Height: 37'-4"
a) Mezzanine per code section 505.2

H: Building Footprint (square feet): 66,847 sf
Building Footprint (square feet): 68,643 sf including covered areas

I: Grocery Tabular Area:

MAIN LEVEL	SQ. FT.	OCCUPANTS
MERCANTILE AREA @ 1/60	43,063 SF	718
FOOD PREP @ 1/200	7,365 SF	37
STORAGE / COOLERS / MECH. @ 1/300	9,531 SF	32
OFFICE / PHARMACY @ 1/150	2,145 SF	14

MEZZANINE LEVEL	SQ. FT.	OCCUPANTS
MECH @ 1/300	1,627 SF	5
OFFICE @ 1/150	3,026 SF	20
SEATING @ 1/15	5,002 SF	333

J: Area Modifications per IBC:
a) Unlimited Area Building: Yes X No _____
b) Code Section: 507.4

Analyze the grocery store building parcel and adjacent parcels as a single site.

Construct grocery store building with 60' separation to property lines or adjacent to public way except where parcel line is shared with adjacent shopping center parcels or where adjacents parcels have a no build easement recorded for these areas, which are less than 60' from the grocery store building.

All buildings on adjacent parcels within 60' of grocery store building to be of any construction type other than type V and will be part of a single unlimited area building.

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	2		Floors - Ceiling Floors	0	
Interior Bearing Walls	0		Roofs - Ceiling Roofs	0	
Exterior Non-Bearing Walls	0		Exterior Doors and Windows	0	
Structural Frame	0		Shaft Enclosures	1	
Partitions - Permanent	0		Fire Walls	3	na
Fire Barriers	2	na	Fire Partitions	1	na
			Smoke Partitions	0	na

L. Design Occupant Load: Level 1: 801 occupants, Level 2: 358 occupants
Exit Width Req: Level 1: 160", Level 2: 77" Exit Width Prov: Level 1: 312", Level 2: 148"
Exits Required: Level 1: 3, Level 2: 2 Exits Provided: Level 1: 3, Level 2: 3

M. Minimum Number of Required Plumbing Facilities:
a) Water Closets - Required (m) 2 (f) 2 Provided (m) 6 (f) 6
b) Lavatories - Required (m) 1 (f) 1 Provided (m) 3 (f) 3
c) Bath Tubs or Showers: 0
d) Drinking Fountains: 2 Service Sinks: 1

GENERAL NOTES

1. CONTRACTORS AND SUBCONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH ALL PORTIONS OF THE DRAWINGS, SPECIFICATIONS, ADDENDUM AND CHANGE ORDERS THAT PERTAIN TO THEIR WORK. THEY SHALL BE HELD RESPONSIBLE FOR ADHERING TO THOSE REQUIREMENTS AND SHALL NOT PREPARE ANY BID FROM PARTIAL SETS.
2. STUD BOTTOM TRACKS TO BE MECHANICALLY FASTENED TO THE SLAB OR SUB FLOORING AS OCCURS.
3. STUDS TO BE SHEATHED WITH 5/8" TYPE 'X' GYP. BOARD UNLESS OTHERWISE NOTED.
4. PROVIDE SEALANT AROUND ALL PERIMETER WALL PENETRATIONS.
5. ALL NUTS, BOLTS & MISCELLANEOUS METAL EXPOSED TO WEATHER SHALL BE GALVANIZED UNLESS OTHERWISE NOTED.
6. ALL WORK SHALL COMPLY STRICTLY WITH THE INTERNATIONAL BUILDING CODE, AND ALL LOCAL CODES AND ORDINANCES.
7. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND SHALL REPORT ANY INCONSISTENCIES TO THE ARCHITECT.
8. DRAWINGS ARE NOT TO BE SCALED, DIMENSIONAL DISCREPANCIES SHALL BE CLARIFIED WITH THE ARCHITECT.
9. ALL DIMENSIONS ARE TO FACE OF CONCRETE, MASONRY OR GYP. BD. UNLESS OTHERWISE NOTED.
10. PROTECT PORTIONS OF THE BUILDING ADJACENT TO OR AFFECTED BY CONSTRUCTION.
11. DO NOT CLOSE OR OBSTRUCT STREET, WALKS, DRIVES, PARKING OR OTHER OCCUPIED OR USED SPACES OR FACILITIES WITHOUT THE WRITTEN PERMISSION OF THE OWNER AND AUTHORITIES HAVING JURISDICTION.
12. DO NOT INTERRUPT UTILITIES SERVING OCCUPIED OR USED FACILITIES WITHOUT THE WRITTEN PERMISSION OF THE OWNER AND AUTHORITIES HAVING JURISDICTION.
13. CONTRACTOR SHALL REMOVE ALL SURPLUS MATERIALS, FALSE WORK, TEMPORARY STRUCTURES INCLUDING FOUNDATIONS & DEBRIS OF EVERY NATURE RESULTING FROM HIS OPERATIONS, AND PUT THE SITE IN A NEAT, ORDERLY CONDITION.
14. CONTRACTOR SHALL VERIFY THE LOCATION AND SHALL PROVIDE AND PROTECT UTILITIES WITHIN THE WORK AREA, WHETHER OR NOT INDICATED IN THE DRAWINGS. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES IMMEDIATELY SHOULD SERVICES BE INTERRUPTED.
15. GENERAL CONTRACTOR TO FIELD VERIFY ALL CONDITIONS WHERE WORK IS BEING PERFORMED.
16. A SET OF AS-BUILT DRAWING PRINTS WILL REMAIN ON SITE DURING REMODEL.
17. AFTER REMODEL THE G.C. WILL DELIVER TO THE OWNER 30 DAYS AFTER COMPLETION TWO SETS OF NEW AS-BUILTS AND ALL NECESSARY CLOSE OUT DOCUMENTS.
18. FIRE EXTINGUISHERS ARE TO BE MAINTAINED IN ALL AREAS WHERE TORCHES ARE BEING USED.
19. ALL CONTRACTORS ARE TO SUPPLY THEIR OWN SAFETY EQUIP.
20. CONTRACTOR TO PROVIDE AND INSTALL FIRE EXTINGUISHERS PER THE DIRECTION OF THE AUTHORITY HAVING JURISDICTION PRIOR TO SUBSTANTIAL COMPLETION.
21. FLOOR CARPET SHALL BE TESTED IN ACCORDANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION STANDARD 253 AND BE A CLASS I (0.45 WATTS/CM) IN CORRIDORS, EXIT ENCLOSURES AND EXIT PASSAGEWAYS.
22. THERMAL AND SOUND INSULATION AND COVERING WHICH ARE INSTALLED IN CONCEALED AND EXPOSED SPACES AND AS COVERING OVER PIPE AND TUBING SHALL BE TESTED IN ACCORDANCE WITH AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) E 84 AND HAVE A FLAME SPREAD OF 0-25 AND A SMOKE INDEX OF 0-450.
23. THERMAL AND SOUND INSULATION AND COVERING OVER PIPE AND TUBING WHICH ARE INSTALLED IN CONCEALED PLENUM SPACES SHALL BE TESTED IN ACCORDANCE WITH AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) E 84 AND HAVE A FLAME SPREAD OF 0-25 AND A SMOKE INDEX OF 0-50.
24. INTERIOR WALL FINISHES WHICH ARE TEXTILES AND CEILING TILE SHALL BE TESTED IN ACCORDANCE WITH AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) E 84 AND HAVE A FLAME SPREAD OF 0-25 AND A SMOKE INDEX OF 0-450
25. SMOKE DAMPERS SHALL BE LISTED UL555S AND BE CONTROLLED BY AUTOMATIC SMOKE DETECTION EITHER IN THE DUCT OR AREA OF SMOKE SEPARATION.
26. PENETRATIONS OF SMOKE BARRIERS AND PARTITIONS SHALL BE PROVIDED WITH AN APPROVED FIRE/SMOKE STOP SYSTEM OF A MINIMUM OF 1 HOUR FIRE RATED MATERIALS WHICH HAVE BEEN TESTED BY ASTM E 814.
27. FIRE STOPPING MATERIALS FOR NON-FERROUS PIPE, CONDUIT AND OTHER SYNTHETIC MATERIALS SHALL BE COMPATIBLE WITH EACH.
28. ENVIRONMENTAL AIR DUCTS THAT PENETRATE FIRE RATED ASSEMBLIES SHALL BE PROVIDED WITH UL 555 LABELED FIRE DAMPERS THAT HAVE A FIRE RATING OF AT LEAST 75% OF THE ASSEMBLY BEING PENETRATED. ALL SYSTEMS SHALL COMPLY WITH IFC 907.2.13.1.2. AND 907.4.1 AS APPROPRIATE.
29. ALL FIRE RATED ASSEMBLIES SHALL BE TESTED IN ACCORDANCE WITH AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) E 119 OR EQUIVALENT.
30. CONTRACTOR TO ENGINEER ALL STUD CONNECTIONS, TYP.

DEFERRED SUBMITTALS

THE FOLLOWING ITEMS ARE DESIGNATED AS DEFERRED SUBMITTALS PER IBC SECTION 107.3.4.1. DEFERRED SUBMITTALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THEY SHALL BE PREPARED BY A LICENSED DESIGN PROFESSIONAL AND REVIEWED BY THE CONTRACTOR AND THE DESIGN TEAM FOR CONFORMANCE WITH THE DESIGN INTENT AND CONTRACT DOCUMENTS PRIOR TO SUBMISSION TO THE AUTHORITY HAVING JURISDICTION (AHJ).

ALL DEFERRED SUBMITTALS SHALL BE SUBMITTED TO AND APPROVED BY THE CITY BUILDING DEPARTMENT PRIOR TO FABRICATION, PROCUREMENT, OR INSTALLATION OF ANY ASSOCIATED WORK. NO WORK RELATED TO DEFERRED SUBMITTAL ITEMS SHALL COMMENCE UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED FROM THE CITY.

DEFERRED SUBMITTAL ITEMS INCLUDE (BUT ARE NOT LIMITED TO):

FIRE ALARM SYSTEM:
THE GENERAL CONTRACTOR IS TO PROVIDE A SET OF FIRE ALARM DRAWINGS PRIOR TO THE INSTALLATION OF ANY FIRE ALARM COMPONENTS.

FIRE SPRINKLER SYSTEM:
THE GENERAL CONTRACTOR IS TO PROVIDE A SET OF FIRE SPRINKLER PLANS INCLUDING THE MAIN SIZE AND PRESSURE, HYDRAULIC CALCULATIONS, ETC. PRIOR TO THE INSTALLATION OF ANY FIRE PROTECTION COMPONENTS.

KITCHEN EXHAUST HOOD FIRE SUPPRESSION SYSTEM (ANSUL):
THE GENERAL CONTRACTOR SHALL PROVIDE THE NAME, MANUFACTURER AND INSTALLATION DETAILS FOR THE KITCHEN EXHAUST HOOD FIRE SUPPRESSION SYSTEM PRIOR TO INSTALLATION OF THE SYSTEM.

NOTE:
ADDITIONAL DEFERRED SUBMITTALS SHALL BE SUBMITTED AS INDICATED IN THE CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL AND ELECTRICAL DOCUMENTS.

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GENERAL ABBREVIATIONS

Act.	Accoustic Ceiling Tile	Galv	Galvanized	Q.T.	Quarry Tile
Alt.	Alternate	G.I.	Galvanized Iron	Rad.	Radius
Alum.	Aluminum	Ga.	Gauge	R.B.	Rubber Base
A.B.	Anchor Bolt	Gl.	Glass	R.W.L.	Rain Water Leader
&	And	Gr.	Grade	R.F.F.	Reference Finish Floor
Arch.	Architectural	Grnd.	Ground	Refl.	Reflected
@	At or At The	Gyp.	Gypsum Board	Reinf.	Reinforcing
Bm.	Beam	Bd.	Gypsum Waterproof Board	Req.	Required
Blk.	Block	H.D.P.E.	High Density Polyethylene	Ret.	Retaining
Bkg.	Blocking	HG#	Hardware Group #	Rev.	Revised
Bd.	Board	Hdwd.	Hardwood	R.	Riser
Bot.	Bottom	Ht.	Height	R.D.	Roof Drain
Bldg.	Building	H.P.	High Point	Rm.	Room
Cpt.	Carpet	Horiz.	Horizontal	R.O.	Rough Opening
Clkg.	Caulking	H.B.	Hose Bibb	Sched.	Schedule
C.I.	Cast Iron	H.M.	Hollow Metal	Seal.	Sealant
Clg.	Ceiling	Hr.	Hours (Fire Rating)	Sect.	Section
Cem.	Cement	In.	Inch	S.Sk.	Service Sink
Ctr.	Center	I.D.	Inside Diameter	Sht.	Sheet
C	Center Line	Insul.	Insulation	Sim.	Similar
Cer.	Ceramic	Int.	Interior	Sl./Slp.	Slope
C.T.	Ceramic Tile	I.E.	Invert Elevation	S.C.	Solid Core
Clr.	Clear (ance)	Inv.	Invert Elevation	Spec.	Specifications
Clo.	Closet	Jan.	Janitor	Sq.	Square
Col.	Column	Jt.	Joint	Std.	Standard
Conc.	Concrete	J-Box	Junction Box	Stl.	Steel
CMU	Concrete Masonry Unit	Kit.	Kitchen	Stor.	Storage
CMP	Corrugated Metal Pipe	Lam.	Laminate	Struct	Structural/Structure
Conn.	Connection	Lav.	Lavatory	Sym.	Symmetrical
Constr.	Construction	Lt.	Light	T.B.R.	To be Removed
Cont.	Continue/Continuous	L.P.	Low Point	Tel.	Telephone
Contr.	Contractor	Matl.	Material	Temp.	Temporary/Tempered
C.J.	Control Joint	Mas.	Masonry	Thk.	Thick (ness)
Corr.	Corridor	Maint.	Maintenance	T & G	Tongue and Groove
Cntr.	Counter	Mfr.	Manufacturer	T/Conc.	Top of Concrete
Ctsk.	Countersunk	M.H.	Manhole	T/Curb	Top of Curb
Det.	Detail	M.O.	Masonry Opening	T.O. FTG.	Top of Footing
Dept.	Department	Max.	Maximum	T.O.P.	Top of Plate
Dia.	Diameter	Mech.	Mechanical	T./Wall	Top of Wall
Dim.	Dimension	Memb.	Membrane	T.	Tread
Dn.	Down	Men	Men's Toilet	Typ.	Typical
D.S.	Downspout	Mtl./Met.	Metal	Unf.	Unfinished
Dwg.	Drawing	Min.	Minimum	U.N.O.	Unless Noted Otherwise
D.F.	Drinking Fountain	Mir.	Mirror	Var.	Vary or Varies
E.	East	Misc.	Miscellaneous	Vert.	Vertical
Ea.	Each	Mtd.	Mounted	V.T.R.	Vent Through Roof
Elec.	Electric (al)	Mul.	Mullion	VCT	Vinyl Composition Tile
Elev./El.	Elevation	Nom.	Nominal	w/	With
Exist.	Existing	N.	North	W.A.S.	Welded Anchor Stud
Eq.	Equal	N.I.C.	Not In Contract	Wd.	Wood
Equip.	Equipment	N.T.S.	Not To Scale	Wp.	Waterproof
Exist.	Existing	No. or #	Number	Wsct.	Wainscot
Exp.	Expansion	Off.	Office	w/o	Without
Ext.	Exterior	O.C.	On Center	W.P.	Working Point
Fin.	Finish	Opng.	Opening	W.R.	Water Resistant
F.A.	Fire Alarm	Opp.	Opposite	W.I.	Wrought Iron
F.E.	Fire	Opp. H.	Opposite Hand		
F.E.C.	Extinguiser	O.D.	Outside Diameter		
Fir./Fl.	F.E. Cabinet	O.R.D.	Overflow Roof Drain		
F.D.	Floor				
F.O.S.	Floor Drain				
F.O.W.	Face of Stud				
Ftg.	Face of Wall				
Fdn.	Footing				
F.F.	Foundation				
	Finish Floor				

MATERIALS LEGEND

EARTH
SAND
CONCRETE W/ ARCH. FINISH
CMU
BRICK
LIMESTONE
WOOD (BLOCKING)
WOOD FRAMING
STEEL
RIGID INSULATION
PLASTER
COMPRESSIBLE FILLER
METAL LATH
FENCE
GRAVEL
CONCRETE
CAST STONE
MARBLE
GRANITE
STONE
PLYWOOD
WOOD FINISH
ALUMINUM
BATT INSULATION
ACOUSTICAL TILE
BACKER ROD AND FILLER
GYPSUM BOARD
TO REMOVE

PROJECT DIRECTORY

ARCHITECT
Design Sequence
(801) 596-0691

MECHANICAL ENGINEER
PVE

STRUCTURAL ENGINEER
ARW Engineers
(801) 782-6008

ELECTRICAL ENGINEER
Elemental Electrical Engineers

GRAPHIC SYMBOLS

BLDG. ELEV. SYMB. (DTL# / SHT#)
WALL SECT. SYMB. (DTL# / SHT#)
KEYED NOTE SYMB. (#)
ELEVATION SYMB. (T.O. ELEV)
WALL TYPE SYMB. (E)
RM. NAME / RM. # — RM. NAME/NUMB
DETAIL REF. SYMB. (DTL# / SHT#)
INTR. ELEV. SYMB. (DTL# / SHT#)
DR. # — DOOR/HDWR. SYMB.
WINDOW SYMB. (#)

HARMONS
SPANISH FORK

2643 East 400 North
Spanish Fork, Utah

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 14, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
CAD DWG FILE NO:
DRAWN BY:
DESIGNED BY:
DWG TYPE:
ARCHITECTURAL PHASE: BID SET

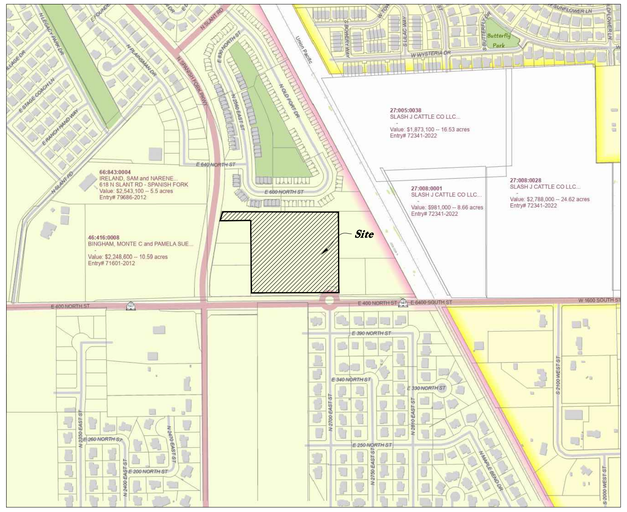
SHEET TITLE

INDEX, CODE ANALYSIS, GENERAL NOTES

A0.0

Harmons - Spanish Fork

2643 East 400 North
Spanish Fork, UT, 84660



Vicinity Map
Not to Scale

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Abbreviations

BCR	Begin Curb Return	PP	Power Pole
BOL	Bollard	PT	Point of Tangency
BRW	Finish Grade – Bottom of Retaining Wall	PVC	Polyvinyl Chloride
CATV	Cable Television Box	PVI	Point of Vertical Intersection
CB	Catch Basin	RCP	Reinforced Concrete Pipe
CMP	Corrugated Metal Pipe	RD	Roof Drain
COB	Cleanout Box	SB	Signal Box
COTG	Cleanout to Grade	SD	Storm Drain
EA	Edge of Asphalt	SDMH	Storm Drain Manhole
EB	Electrical Box	SMH	Sewer Manhole
EC	End of Curve	SP	Signal Pole
ECR	End Curb Return	SS	Sanitary Sewer
FF	Finished Floor	SVZ	Sight Visibility Zone
g	Ground	SW	Secondary Water
GB	Grade Break	TA	Top of Asphalt
GM	Gas Meter	TB	Telephone Box
HB	Hose Bib	TBC	Top Back of Curb
HP	High Point	TG	Top of Grate
I	Irrigation Line	TMH	Telephone Manhole
ICB	Irrigation Control Box	TP	Top of Concrete
Lip	Lip of Gutter	TRW	Finish Grade – Top of Retaining Wall
LP	Light Pole	TW	Top of Walk
MH	Manhole	VC	Vertical Curve
Mon	Monument	VPC	Vertical Point of Curve
PC	Point of Curvature	VPT	Vertical Point of Tangency
PCC	Point of Compound Curvature	WL	Waterline
PI	Point of Intersection	WP	Working Point
PM	Power Meter	WV	Water Valve

Legend

Proposed Curb & Gutter		Existing Improvements	
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Proposed Secondary Water Line	SW	Existing Light Pole	
Proposed Roof Drain	RD	Existing Street Light	
Proposed Fence	X	Existing Building	
Ridge Line	R	Existing Telephone Box	TB
Grade Break	GB	Existing Power Meter	PM
Proposed Contour	78	Existing Electrical Box	EB
Direction of Drainage		Existing Electrical Cabinet	ECAB
Proposed Spot	78.00TA	Existing Gas Meter	GM
ADA Accessible Route		Existing Water Meter	WM
Property Line		Existing Irrig. Control Box	ICB
Sawcut Line		Existing Bollard	BOL
Proposed Light Pole		Existing Hose Bibb	HB
Proposed Street Light		Working Point	
Proposed Building		Existing Deciduous Tree	
Existing Power Pole		Existing Coniferous Tree	
Existing Power Pole w/ Guy		Detail Number / Sheet Number	XX / YY
Existing Utility Marker			
Existing Post			

Civil Note to Contractor

The Contractor shall immediately notify the Engineer in writing of any discrepancies, conflicts, or conditions encountered during construction that may affect the work, schedule, or cost. Work in the affected area shall not proceed until directed by the Engineer.

Flood Zone

This property lies entirely within Flood Zone X as designated on FEMA Flood Insurance Rate Map for June 19, 2020. "Flood Zone X is defined as "Areas determined to be outside the 0.2% annual floodplain." (No Shading)

Benchmark

Brass Cap Monument for the South Quarter Corner of Section 16, T8S, R3E, SLB&M
Elevation = 4721.50 feet
(Geoid '18 Ortho Height) Observed 1 Oct, 2024

Legal Description

Lot 4, Canyon Court Plat "A", a commercial subdivision according to the official plat thereof on file and of record in the office of the Utah County Recorder.

Know what's below. Call 811 before you dig.
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Salt Lake City, Utah 84119
(801) 521-8529 - awaeng.com

REGISTERED PROFESSIONAL ENGINEER
No. 7972382
SHAUN K YOUNG
9/15/26
STATE OF UTAH

REV	DATE	DESCRIPTION

CLIENT INFORMATION:
Harmons

CLIENT LOGO:
HARMONS

Cover Sheet

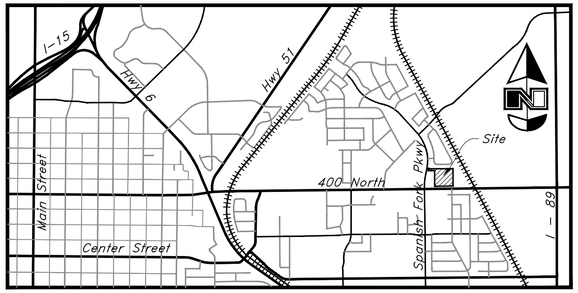
Harmons Spanish Fork
2643 East 400 North
Spanish Fork, Utah, 84664

Project Information	
Designer:	JM/KF
PM:	SY
QCM:	XX
Final Review:	XX
23-133 CV	

14 Sep, 2026

SHEET NO.
C0.0

W:\23-133 Harmons Spanish Fork\Dwgs\23-133 CV.dwg, 9/15/2026 11:58:53 AM, tj



Vicinity Map
Not to Scale

Title Information

This survey was completed using Title Report Commitment No. 102607 Revision C dated June 15, 2025 from Commonwealth Land Title Insurance Company and issued by Metro National Title:

The following survey related items circled (Solid) from Schedule B, Part II of the title report are plotted on the survey:

The following survey related items circled (Dashed) from Schedule B, Part II of the title report blanket all or a portion of this site but contain nothing to plot:

The following survey related items not circled from Schedule B, Part II of the title report could not be plotted:

(15) Ordinance No. 1990–13 recorded May 23, 1990 as Entry No. 16142 in Book 2691 at Page 572 of Official Records and Utah County Zoning Ordinance recorded May 23, 2990 as Entry No. 16143 in Book 2691 at Page 575 in Official Records covers Utah County but contains nothing to plot.

(18) United States Department of the Interior Bureau of Reclamation Strawberry Valley Project Power Distribution System License Agreement for South Utah Valley Electric Service District recorded January 14, 2015 as Entry No. 3187:2015 of Official Records mentions this section along with more sections but contains nothing to plot.

(24) Notice of Development Obligations recorded March 7, 2022 as Entry No. 28656:2022 of Official Records covers the Southerly portion of Lot 4 as shown

(31) Easement(s), Setbacks, notes and restrictions, as shown on the subdivision plat of Canyon Court Plat "A" Recorded June 18, 2025 Entry No. 45452:2025 Map No. 19767

* Exception No.'s 1–8, 12, 14, 16, 21, 25–27 & 32 are general and/or standard exceptions that do not reveal matters of survey.

** Exception No.'s 28 & 30 describe and affect all or a portion of this site but do not reveal matters of survey. Exception No.'s 9–11, 13, 17, 19, 20 & 22–23 were intentionally deleted by the Title Company. Exception No. 29 is a previous proforma version of this survey.

Notes

According to ALTA standards, the surveyor cannot certify a survey based upon an interpretation. The surveyor is not authorized to interpret zoning codes, nor can the surveyor determine whether certain improvements are burdening or actually benefiting the property.

Pertaining to ALTA Table A Item No. 8: There were no observed areas of substantial refuse on the site.

Pertaining to ALTA Table A Item No. 11(a): The location and/or elevation of existing utilities shown on these plans are based on records of the various utility companies, design plans, and where possible measurements taken in the field. No underground explorations were performed. According to Bluestakes of Utah the following companies have Utilities in the area: Comcast, Centracom Interactive, Lumen, Verizon, Mapleton City Corporation, Enbridge Gas, Rocky Mountain Power, South Utah Valley Electric, Spanish Fork City and UDOT.

Benchmark

Brass Cap Monument for the South Quarter Corner of Section 16, T8S, R3E, SLB&M
Elevation = 4721.50 feet (Geoid '18 Ortho Height)
Observed 1 Oct, 2024

Flood Plain Data

This property lies entirely within Flood Zone X as designated on FEMA Flood Insurance Rate Map for Spanish Fork City, Utah County, Utah and Incorporated Areas Map Number 49049C0800F dated 19 Jun, 2020. Flood Zone X is defined as "Area of Minimal Flood Hazard".

Narrative

This Survey update was requested by Harmon's Grocery prerequisite to the development of this property.

This Survey retraces and honors Lot 4 of the 2025 Canyon Court Plat "A".

Field measurements were collected with VRS and matches a NAD83 Utah Central Zone State Plane Datum reference to North which verified the Utah County Survey published values between UCS Monuments recovered for the South Line of Section 16. The State Plane bearings may be retraced locally by assigning the bearing of North 89°21'12" East to the full mile line between the monuments marking the Southwest and Southeast Corners of said Section 16.

The older 1947 Highway plans were acquired – but the outdated narrow Right–of–Way is of no value to the new site. The new 2010 UDOT Highway Plans were acquired and the Section line control verifies the UCS Section data well – however no ties were revealed on the plans supplied to determine the location of the new Right–of–Way lines shown on the plans and the centerline of the alignment of the highway does not follow the Section control.

The 2010 Minor Arterial Road Dedication Plat for the Road alignment for Spanish Fork Parkway revealed a 98 foot wide Right–of–Way but the alignment conflicts with the underlying subdivision and does not match the location of the roadway as it is now constructed on the ground and has not otherwise been shown by this survey.

No Property Corners were placed with this Survey.

Record Descriptions

Lot 4, Canyon Court Plat "A", a commercial subdivision, according to the official plat thereof on file and of record in the office of the Utah County Recorder.

Certification

To Harmon's Grocery, TDH Spanish Fork, LLC, a Utah limited liability company, Canyon Court LLC, a Utah limited liability company, Metro National Title and Commonwealth Land Title Insurance Company:

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2026 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 2, 3, 4, 5, 8 and 11(a) of Table A thereof. The fieldwork was completed on 19 May, 2026.

Date: 26 Jun, 2026

PROFESSIONAL LAND SURVEYOR 362256 BRUCE D. PIMPER STATE OF UTAH

Bruce D. Pimper
Utah PLS No. 362256

REV	DATE	DESCRIPTION

Designed by: BDP
Drafted by: NE
Client Name:
Harmon's Grocery

23–133as

2010 North Redwood Road, Salt Lake City, Utah 84116
(801) 521-8529 - AllAboutEngineering.net

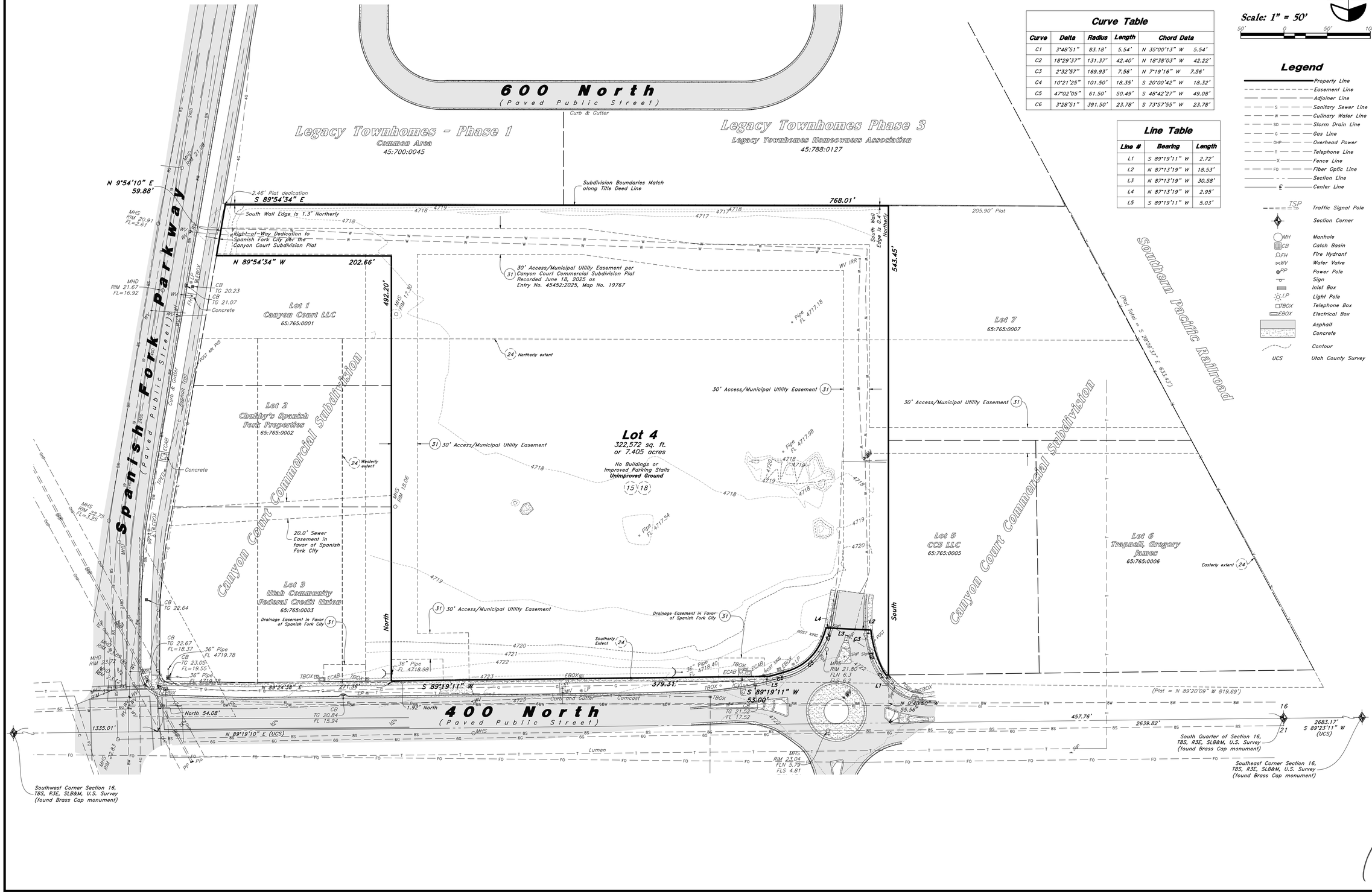
ALTA / NSPS Land Title Survey

Harmon's Spanish Fork

2643 East 400 North Utah
Spanish Fork, Utah County, Utah
A Part of the Southwest Quarter of Section 16, T8S, R3E, SLB&M, U.S. Survey

26 Jun, 2026

SHEET NO. 1 of 2



Curve Table

Curve	Delta	Radius	Length	Chord Data
C1	3°48'51"	83.18'	5.54'	N 35°00'13" W 5.54'
C2	18°29'37"	131.37'	42.40'	N 18°38'03" W 42.22'
C3	2°32'57"	169.93'	7.56'	N 7°19'16" W 7.56'
C4	10°21'25"	101.50'	18.35'	S 20°00'42" W 18.32'
C5	47°02'05"	61.50'	50.49'	S 48°42'27" W 49.08'
C6	3°28'51"	391.50'	23.78'	S 73°57'55" W 23.78'

Line Table

Line #	Bearing	Length
L1	S 89°19'11" W	2.72'
L2	N 87°13'19" W	18.53'
L3	N 87°13'19" W	30.58'
L4	N 87°13'19" W	2.95'
L5	S 89°19'11" W	5.03'

Scale: 1" = 50'

50' 0 50' 100'

Legend

- Property Line
- Easement Line
- Adjoiner Line
- S — Sanitary Sewer Line
- W — Culinary Water Line
- SD — Storm Drain Line
- G — Gas Line
- OHP — Overhead Power
- T — Telephone Line
- X — Fence Line
- FO — Fiber Optic Line
- Section Line
- ℄ — Center Line
- TSP Traffic Signal Pole
- Section Corner
- MH Manhole
- CB Catch Basin
- FH Fire Hydrant
- WV Water Valve
- PP Power Pole
- Sign
- Inlet Box
- LP Light Pole
- TBOX Telephone Box
- EBOX Electrical Box
- Asphalt
- Concrete
- Contour
- UCS Utah County Survey

REV	DATE	DESCRIPTION

Designed by: BDP
Drafted by: NE
Client Name:
Harmon's Grocery
23-133as

ANA
2010 North Redwood Road, Salt Lake City, Utah 84116
(801) 521-8529 - ANAengineering.net

ALTA / NSPS Land Title Survey

Harmon's Spanish Fork

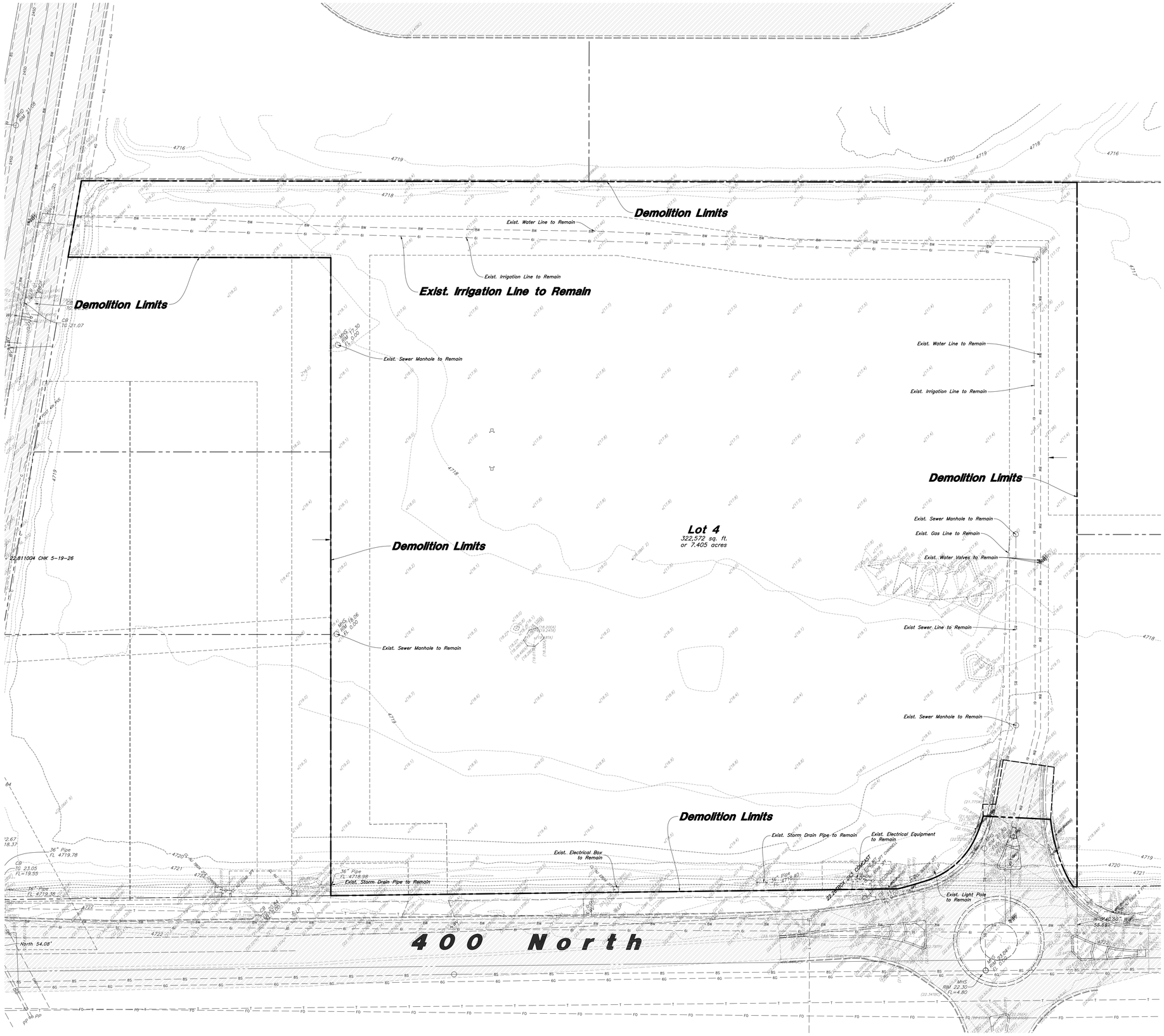
2643 East 400 North
Spanish Fork, Utah County, Utah

A Part of the Southwest Quarter of Section 16, T8S, R3E, SLB&M, U.S. Survey

PROFESSIONAL LAND SURVEYOR
362232
BRUCE D. PAPPER
STATE OF UTAH
26 Jun, 2026

26 Jun, 2026

SHEET NO.
2
of 2



General Demolition Notes:

1. Demolition and site clearing for this contract are to include all areas shown within demolition limits or by note.
2. Refer to site improvement plans for more details on limits of removal.
3. All curbs, gutters, walks, slabs, walls, fences, flatwork, asphalt, waterlines and meters, gas lines, sewer lines, light poles, buried cables, storm drain piping and structures within the demolition limits to be cleared from site unless otherwise shown.
4. All utilities, sewer, water, gas, telephone and electrical services to be disconnected and capped according to city, county and utility company requirements, unless otherwise shown.
5. Excavated areas to be backfilled with clean granular material compacted to 95% of maximum lab density as determined by ASTM D 1557-78. (Test results to be given to owner) Excavated areas should be backfilled per the geotechnical report prepared for the project.
6. Clear and grub trees, shrubs, and vegetation within demolition limits, disposal to be off-site except where noted otherwise.
7. DO NOT interrupt any services or disrupt the operation of any businesses shown outside the demolition limits.
8. Remove debris, rubbish, and other materials resulting from the demolition and site clearing operations from the site and dispose of in a legal manner.
9. The location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied upon as being exact or complete. Contractor shall contact authorities having jurisdiction for field locations. Contractor shall be responsible for protection of in place and relocated utilities during construction.
10. Stockpiles shall be graded to maintain slopes not greater than 3 horizontal to 1 vertical. Provide erosion control as needed to prevent sediment transport to adjacent drainage ways.
11. Contractor shall be responsible for disposal of all waste material. Disposal shall be at an approved site for such material. Burning onsite is not permitted.
12. Contractor shall verify with city any street removal, curb cuts, and any restoration required for utility line removal.
13. Install traffic warning devices as needed in accordance with local standards.
14. Contractor shall obtain all permits necessary for demolition from City, County, State or Federal Agencies as required.
15. If Contractor observes evidence of hazardous materials or contaminated soils he shall immediately contact the project engineer to provide notification and obtain direction before proceeding with disturbance of said materials or contaminated soil.
16. Limits of demolition/disturbed areas shown on the plans may not be an exact depiction. It is the contractor's responsibility to determine the means and methods of how the work will be completed. The contractor shall determine the area of construction impact. The contractor is responsible to restore all impacted areas and all restoration shall be part of the contract bid.
17. Contractor shall shore and protect neighboring properties per OSHA stds. during excavation activities when necessary. All excavation shall remain on and within the bounds of the subject property. Unless specifically noted on the plans and approval from the adjoining neighbor has been obtained prior to any excavation beyond the subject property limits.
18. The Contractor shall immediately notify the Engineer in writing of any discrepancies, conflicts, or conditions encountered during construction that may affect the work, schedule, or cost. Work in the affected area shall not proceed until directed by the Engineer.

CAUTION :

The location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete.

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AWA
1385 West 2200 South, Suite 300
Salt Lake City, Utah 84119
(801) 521-8529 - awaeng.com

LICENSED PROFESSIONAL ENGINEER
No. 7972868
SHAUN K YOUNG
9/15/26
STATE OF UTAH

REV	DATE	DESCRIPTION

CLIENT INFORMATION:
Harmons

CLIENT LOGO:
HARMONS

Demolition Plan

Harmons Spanish Fork

2643 East 400 North
Spanish Fork, Utah, 84664

Project Information	
Designer:	JM/KF
PM:	SY
QCM:	XX
Final Review:	XX

23-133 DM

14 Sep, 2026

SHEET NO.
C0.1

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PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify, and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.

Survey Control Note:

The contractor or surveyor shall be responsible for following the National Society of Professional Surveyors (NSPS) model standards for any surveying or construction layout to be completed using Anderson Wahlen and Associates ALTA Surveys or Anderson Wahlen and Associates construction improvement plans. Prior to proceeding with construction staking, the surveyor shall be responsible for verifying horizontal control from the survey monuments and for verifying any additional control points shown on an ALTA survey, improvement plan, or on electronic data provided by Anderson Wahlen and Associates. The surveyor shall also use the benchmarks as shown on the plan, and verify them against no less than three existing hard improvement elevations included on these plans or on electronic data provided by Anderson Wahlen and Associates. If any discrepancies are encountered, the surveyor shall immediately notify the engineer and resolve the discrepancies before proceeding with any construction staking.

General Site Notes:

1. The Contractor shall immediately notify the Engineer in writing of any discrepancies, conflicts, or conditions encountered during construction that may affect the work, schedule, or cost. Work in the affected area shall not proceed until directed by the Engineer.
2. Limits of demolition/disturbed areas shown on the plans may not be an exact depiction. It is the contractor's responsibility to determine the means and methods of how the work will be completed. The contractor shall determine the area of construction impact. The contractor is responsible to restore all impacted areas and all restoration shall be part of the contract bid.
3. All dimensions are to back of curb unless otherwise noted.
4. Fire lane markings and signs to be installed as directed by the Fire Marshal.
5. Aisle markings, directional arrows and stop bars will be painted at each driveway as shown on the plans.
6. Const. curb transition at all points where curb abuts sidewalk, see detail.
7. Contractor shall place asphalt paving in the direction of vehicle travel where possible.

Construction Survey Note:

The Construction Survey Layout for this project will be provided by Anderson Wahlen & Associates. The Layout Proposal and Professional Services Agreement will be provided to the General Contractor(s) for inclusion in base bids. The Survey Layout proposal has been broken out into Building Costs and Site Costs for use in the Site Work Bid Form.

Hatch Legend

- Standard Asphalt Paving
- Heavy Duty Asphalt Paving
- Existing Asphalt Paving
- Standard Concrete Paving
- Existing Concrete Paving
- Building Interior

Site Data

Site Area = 322,573 s.f. (7.41 ac.)
Landscape Area Provided = 55,769 s.f. (17.3%)
Impervious Area Provided = 199,959 s.f. (62.0%)
Building Area = 66,845 s.f (20.7%)
Parking Required = 1/250 s.f. = 268 stalls
Parking Provided = 272 stalls (4.07/1,000)

Scale: 1" = 30'

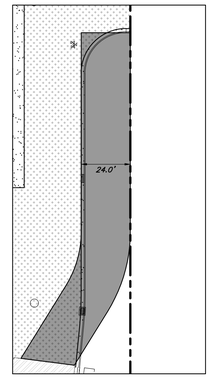
30' 0 30' 60'

Site Construction Notes

1. Const. 24" Curb & Gutter (1 C4.1)
2. Const. Asphalt Paving (2 C4.1)
3. Const. Concrete Sidewalk (4 C4.1) (5 C4.1)
4. Const. Thickened Edge Sidewalk
5. Const. Accessible Striping per MUTCD & ICC/ANSI A117.1 (Latest Edition) (7 C4.1)
6. Const. Accessible Curb Ramp and Truncated Domes per ICC/ANSI A117.1 (Latest Edition)
7. Const. Accessible Sign per MUTCD & ICC/ANSI A117.1 (Latest Edition) (13 C4.2)
8. Const. Accessible VAN Sign per MUTCD & ICC/ANSI A117.1 (Latest Edition) (13 C4.2)
9. Const. 4" White Paint Stripe (Typ.) Contractor shall provide 15 mils min. Dry Thickness (Two Coats)
10. Const. Concrete Paving (6 C4.1)
11. Const. Heavy Duty Asphalt Paving (3 C4.1)
12. Const. Light Poles (See Site Electrical Plans)
13. Const. Directional Arrows per MUTCD
14. Const. 24" White Stop Bar
15. Const. Stop Sign per MUTCD R1-1
16. Connect to Existing Improvements and Match Grade Elevations
17. Const. 6" Concrete Bollard (18 C4.2)
18. Const. Flag Pole Lights (See Site Electrical Plans)

Harmons Grocery Store
66,845 S.F.
FF = 4720.50

S 89°54'34" E 768.01'
N 89°54'34" W 202.66'
492.20'
543.45'
S 89°19'11" W 379.31'
S 89°19'11" W 53.00'
N 0°40'50" W 55.56'
54.08'
400 North
North
South
CHK 5-19-26
EX. NU TBOX 3FT CHANNEL
EX. NU EDGE 3FT
EX. NU EDGE 2FT
EX. NU TBOX 2FT CHANNEL
EX. COMCAST 2X2 BOX
EX. COMCAST 2FT CHANNEL
EX. COMCAST EDGE 2FT
EX. NU AUDIO 2FT
EX. NU EDGE 2 FT
EX. NU EDGE 3 FT
EX. NU EDGE 4FT
EX. NU TBOX 4FT
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EX. NU EDGE 4FT
EX. NU TBOX 4FT



Temporary Access During Construction (By Developer)

Scale = 1:30

AWA
1385 West 2200 South, Suite 300
Salt Lake City, Utah 84119
(801) 521-8529 - awaeng.com

REGISTERED PROFESSIONAL ENGINEER
No. 7972868
SHAUN P. YOUNG
9/15/26
STATE OF UTAH

REV	DATE	DESCRIPTION

CLIENT INFORMATION:
Harmons

CLIENT LOGO:
HARMONS

Site Plan

Harmons Spanish Fork

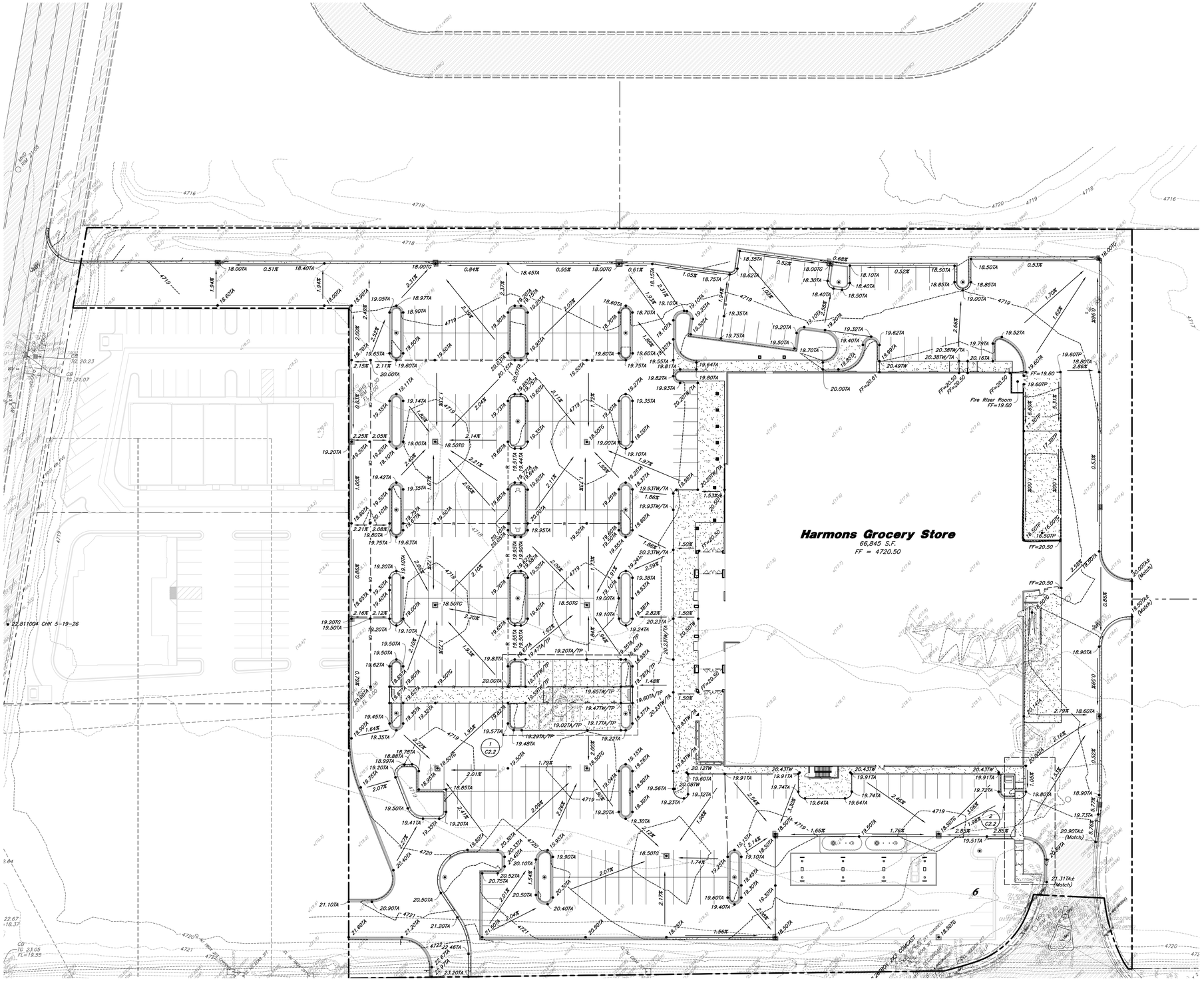
2643 East 400 North
Spanish Fork, Utah, 84664

Project Information	
Designer:	JM/KF
PM:	SY
QCM:	XX
Final Review:	XX
23-133 SP	

14 Sep, 2026

SHEET NO.
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General Grading Notes:

1. All grading shall be in accordance with the project geotechnical study.
2. Cut slopes shall be no steeper than 3 horizontal to 1 vertical.
3. Fill slopes shall be no steeper than 3 horizontal to 1 vertical.
4. Fills shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by a Geotechnical Engineer.
5. Areas to receive fill shall be properly prepared and approved by a Geotechnical Engineer prior to placing fill.
6. Fills shall be benched into competent material as per specifications and geotechnical report.
7. All trench backfill shall be tested and certified by a Geotechnical Engineer.
8. A geotechnical engineer shall perform periodic inspections and submit a complete report and map upon completion of the rough grading.
9. The final compaction report and certification from a Geotechnical Engineer shall contain the type of field testing performed. Each test shall be identified with the method of obtaining the in-place density, whether sand cone or drive ring and shall be so noted for each test. Sufficient maximum density determinations shall be performed to verify the accuracy of the maximum density curves used by the field technician.
10. Dust shall be controlled by watering.
11. The location and protection of all utilities is the responsibility of the permitee.
12. Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading process.
13. All public roadways must be cleared daily of all dirt, mud and debris deposited on them as a result of the grading operation. Cleaning is to be done to the satisfaction of the City Engineer.
14. The site shall be cleared and grubbed of all vegetation and deleterious matter prior to grading.
15. The contractor shall provide shoring in accordance with OSHA requirements for trench walls.
16. Aggregate base shall be compacted per the geotechnical report prepared for the project.
17. The recommendations in the following Geotechnical Engineering Report by CMT Technical Services are included in the requirements of grading and site Preparation. The Report is titled "Geotechnical Engineering Study Harmons Grocery Store"

    Project No.: 105590
    Dated: May 29, 2026
18. As part of the construction documents, owner has provided contractor with a topographic survey performed by manual or aerial means. Such survey was prepared for project design purposes and is provided to the contractor as a courtesy. It is expressly understood that such survey may not accurately reflect existing topographic conditions.
19. If Contractor observes evidence of hazardous materials or contaminated soils he shall immediately contact the project engineer to provide notification and obtain direction before proceeding with disturbance of said materials or contaminated soil.
20. The Contractor shall immediately notify the Engineer in writing of any discrepancies, conflicts, or conditions encountered during construction that may affect the work, schedule, or cost. Work in the affected area shall not proceed until directed by the Engineer.

Curb and Gutter Construction Notes:

1. Open face gutter shall be constructed where drainage is directed away from curb.
2. Open face gutter locations are indicated by shading and notes on the grading plan.
3. It is the responsibility of the surveyor to adjust top of asphalt grades to top of curb grades at the time of construction staking.
4. Refer to the typical details for standard and open face curb and gutter dimensions.
5. Transitions from open face to standard curb and gutter are to be smooth. Hand form these areas if necessary.
6. Spot elevations are shown on this plan with text masking. Coordinate and verify site information with project drawings.

Sidewalk Construction Notes:

1. Concrete sidewalk shall be constructed with a cross slope of 1.5% unless shown otherwise on plan.
2. Running slope of sidewalks shall be built per grades shown on the plan. where grades are not provided, sidewalks shall be constructed with a maximum running slope of 4.5%
3. Refer to the Site Plan for sidewalk dimensions.

AWA
1385 West 2200 South, Suite 300
Salt Lake City, Utah 84119
(801) 521-8529 - awaeng.com

REGISTERED PROFESSIONAL ENGINEER
No. 7972382
SHAUN A. YOUNG
9/15/26
STATE OF UTAH

REV	DATE	DESCRIPTION

CLIENT INFORMATION:
Harmons

CLIENT LOGO:
HARMONS

Grading Plan

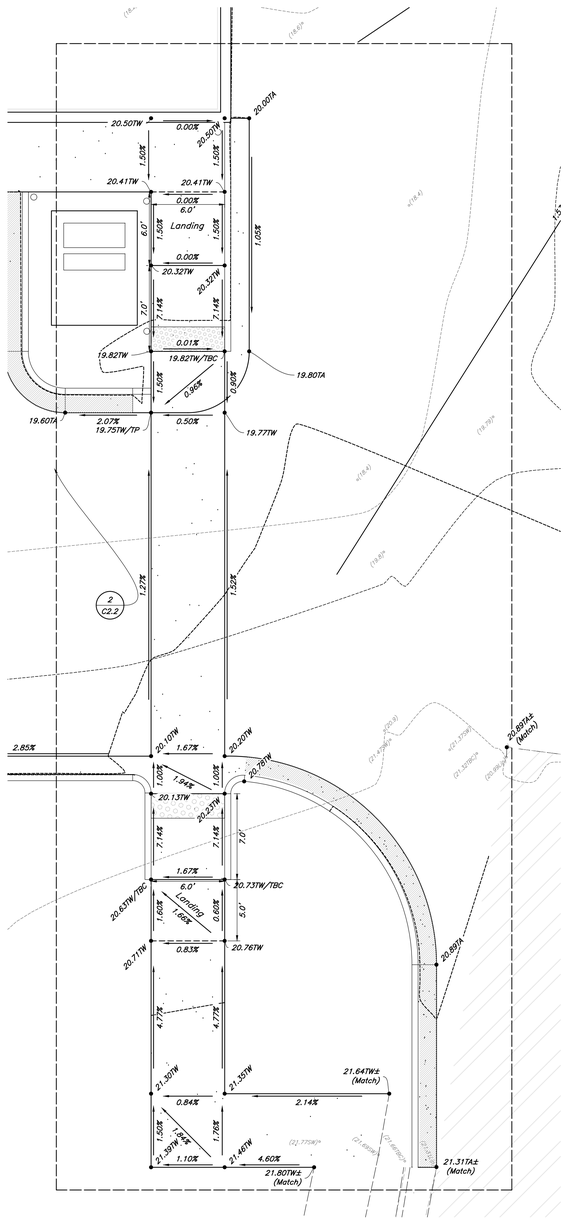
Harmons Spanish Fork
2643 East 400 North
Spanish Fork, Utah, 84664

Project Information	
Designer:	JM/KF
PM:	SY
QCM:	XX
Final Review:	XX
23-133 GR	

14 Sep, 2026

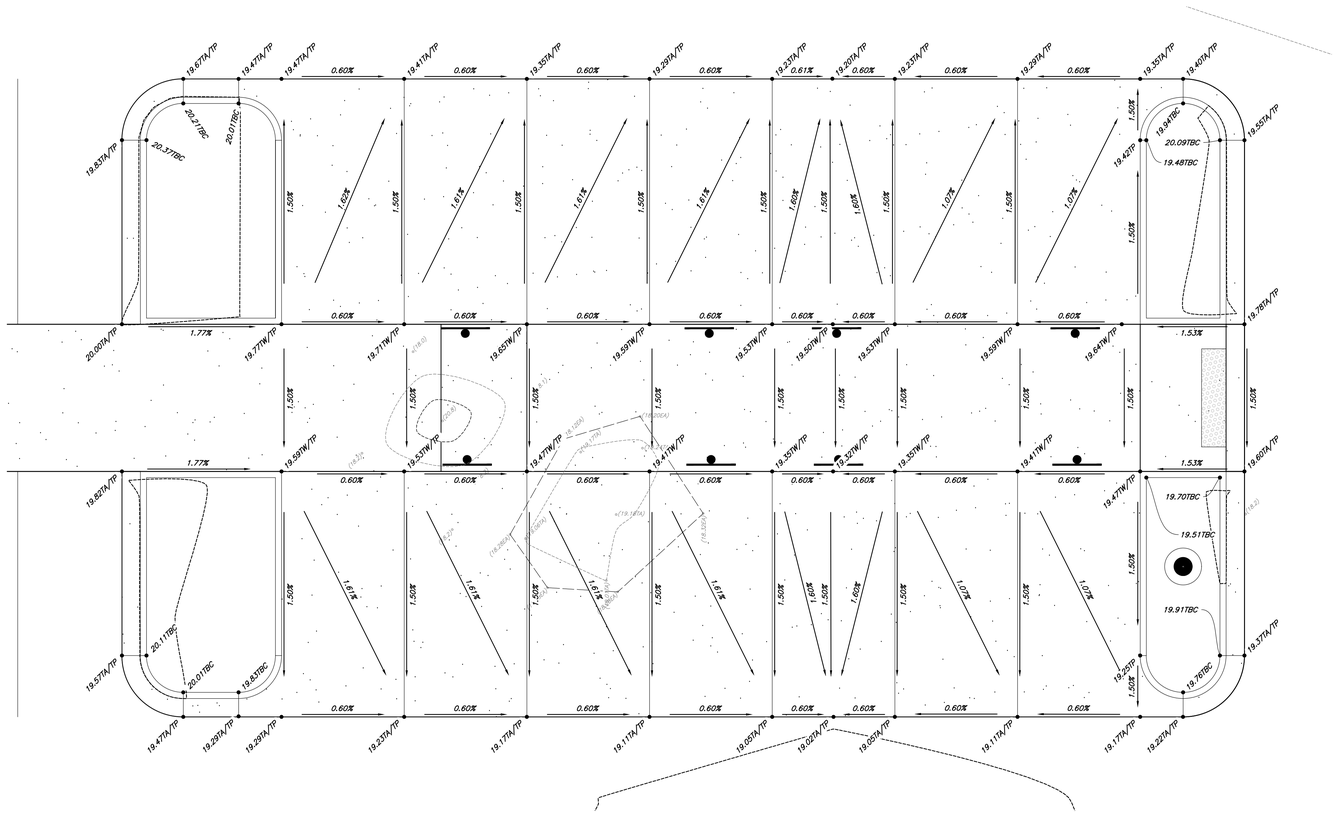
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C2.1

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2 Curb Ramp Detail

Scale: 1" = 5'



1 Accessible Parking Stalls

Scale: 1" = 5'

General Accessible Notes

1. Slopes provided are per Anderson Wahlen & Associates design standards. Slopes shown are below ADA and ICC maximum requirements, unless noted otherwise in project plans.
2. All public curb ramps shall be constructed in accordance with governing municipality standards and specifications.
3. It is the contractor's responsibility to obtain governing municipality standards and specifications.
4. Counter slopes of adjoining gutters and paving adjacent to the curb ramp shall not be steeper than 4.50%.
5. Accessible ramp flares shall be poured separately from ramp to ensure proper slopes.
6. Contractor to transition curb or sidewalk height from 6" to 0" reveal. Curb or sidewalk height to match ramp throughout transition.
7. Accessible landing is required at the top of all ramps. Accessible landing must be a minimum of 4' clear width and 4' clear length. Landings shall be constructed with a cross slope and running slopes of 1.5%, unless shown otherwise on plan.
8. Accessible ramp landings with directional changes are required to be a minimum of 5' clear width and 5' clear length. Directional changes in ramps shall be constructed with a cross slope and running slopes of 1.5%, unless shown otherwise on plan.
9. Concrete sidewalk and accessible routes shall be constructed with a maximum cross slope of 1.5% and maximum running slope of 4.5% unless shown otherwise on the approved plans.
10. Refer to the Site Plan for sidewalk dimensions. All accessible routes must have a minimum clear width of 36".
11. Accessible parking stalls shall be constructed with a maximum slope of 1.5% in all directions, unless shown otherwise on the approved plans.
12. ADA SLOPE MEASUREMENT TOOL REQUIREMENT. All slope measurements related to ADA compliance shall be verified using a 2-foot digital smart level. No substitutions or deviations are allowed. It is the responsibility of all contractors and subcontractors to comply with this requirement without exception.
13. The Client, Contractor and Subcontractor should immediately notify the Consultant of any conditions of the project that they believe do not comply with the current state of Accessible and Usable Buildings and Facilities (ICC/ANSI A117.1-Latest Edition) and/or FHAA.

Prior to any construction of any Accessible Improvements, a Pre-Construction meeting shall be held between Contractor and Engineer. Contractor is Responsible to contact Engineer and Schedule Pre-Construction Meeting

AWA
1385 West 2200 South, Suite 300
Salt Lake City, Utah 84119
(801) 521-8529 - awaeng.com

REGISTERED PROFESSIONAL ENGINEER
No. 7972868
SHAUN K YOUNG
9/15/26
STATE OF UTAH

REV	DATE	DESCRIPTION

CLIENT INFORMATION:
Harmons

CLIENT LOGO:
HARMONS

Grading Details and Notes

Harmons Spanish Fork

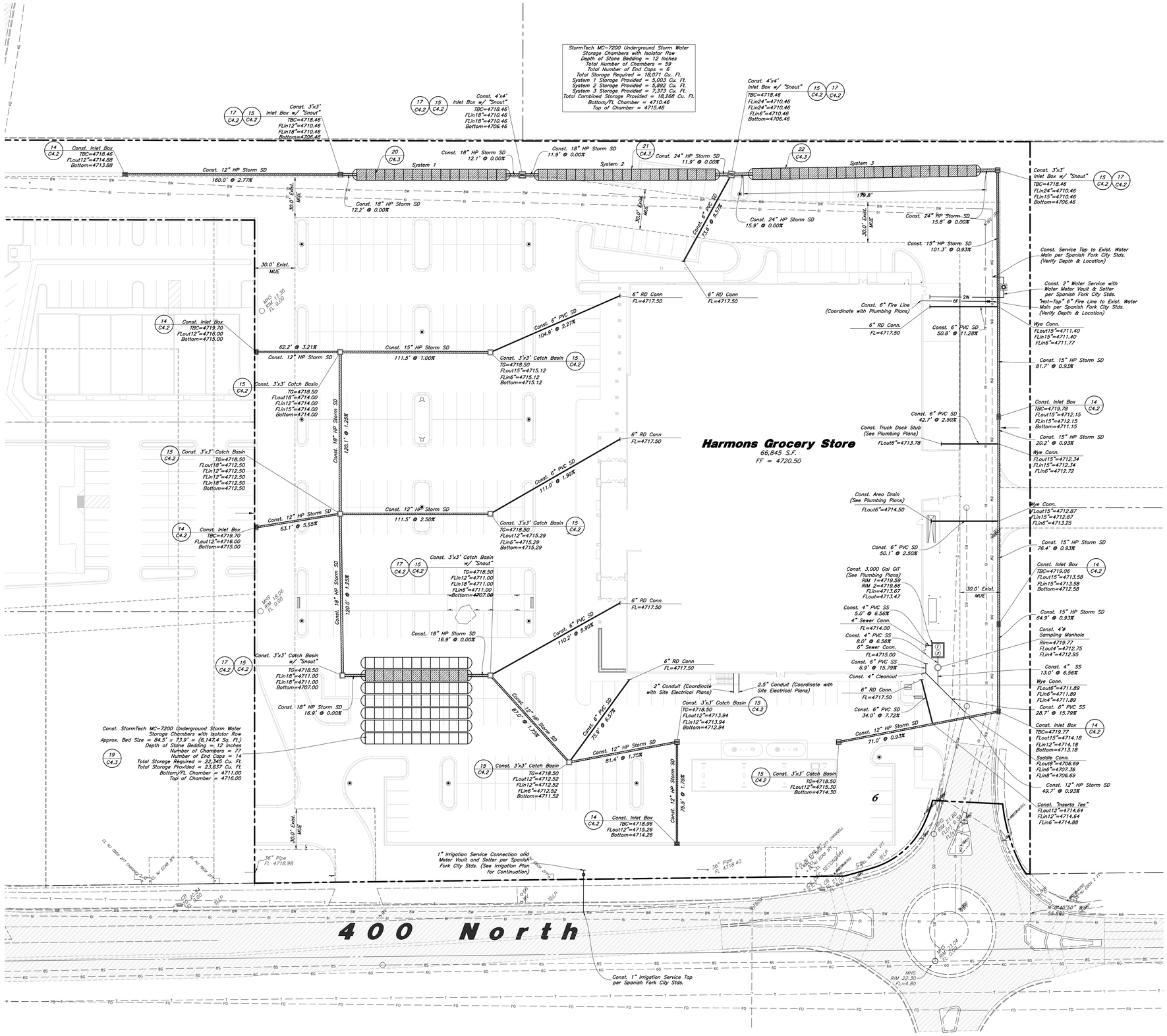
2643 East 400 North
Spanish Fork, Utah, 84664

Project Information	
Designer:	JM/KF
PM:	SY
QCM:	XX
Final Review:	XX
23-133 GR	

14 Sep, 2026

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C2.2

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General Utility Notes:

1. The Contractor shall immediately notify the Engineer in writing of any discrepancies, conflicts, or conditions encountered during construction that may affect the work, schedule, or cost. Work in the affected area shall not proceed until directed by the Engineer.
2. All sewer and water facilities shall be constructed per local jurisdiction standards and specifications. Contractor is responsible to obtain standards and specifications.
3. Coordinate all utility connections to building with plumbing plans and building contractor.
4. Verify depth and location of all existing utilities prior to constructing any new utility lines. Notify Civil Engineer of any discrepancies or conflicts prior to any connections being made.
5. All catch basin and inlet box grates are to be bicycle proof.
6. Refer to the site electrical plan for details and locations of electrical lines, transformers and light poles.
7. Gas lines, telephone lines, and cable TV lines are not a part of these plans.
8. Water meters are to be installed per city standards and specifications. It will be the contractor's responsibility to install all items required.
9. Water lines, valves, fire hydrants, fittings etc. are to be constructed as shown. Contractor is responsible, at no cost to the owner, to construct any vertical adjustments necessary to clear sewer, storm drain, or other utilities as necessary including valve boxes and hydrant spools to proper grade.
10. Contractor shall install a 12" concrete collar around all manholes, valves, catch basins, cleanouts & any other structures located within the asphalt.

Utility Piping Materials:

All piping materials shall be per local agency standards or the specifications below at a minimum. All utility piping shall be installed per manufacturers recommendations. Refer to project specifications for more detailed information regarding materials, installation, etc.

Culinary Service Laterals

1. Polyethylene (PE) Water Pipe (Up to 3 inches diameter), AWWA C901, PE 3408, SDR 9 (200 psi)
2. Copper Pipe (Up to 3 inches diameter): Type 'K.'

Water Main Lines and Fire Lines

1. Polyvinyl Chloride (PVC) (4 inches to 12 inches diameter): AWWA C900, Class 235

Sanitary Sewer Lines

1. All sewer piping to be Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35

Storm Drain Lines

1. 12" pipes or smaller – Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35
2. 15" pipes or larger – Reinforced Concrete Pipe, ASTM C76, Class III

CAUTION :

The locations and/or elevations of existing utilities as shown on these plans are based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete.

Storm Drain & Sanitary Sewer Note:

All Storm Drainage & Sanitary Sewer Pipe Lengths and Slopes are from Center of Structure to Center of Structure

Onsite Utility Connection Notes:

1. Contractor shall field verify all utility connection elevations prior to any utility construction has begun.
2. Contractor shall construct utility lines into site prior to any onsite utility construction. Gravity lines are to be constructed starting at the lowest point and be installed prior to any waterline installation
3. Contractor of any onsite utilities prior to the offsite connection will be done at the contractors risk.

PVC Pipe Protection During Construction:
PVC Pipe must have 24" cover for heavy construction loading during construction. The Contractor is responsible to temporarily protect any pipes with less than 24" cover by berming over the pipes.

Know what's below. Call 811 before you dig.
BLUE STAKES OF UTAH UTILITY NOTIFICATION CENTER, INC.
www.bluestakes.org
1-800-662-4111

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1385 West 2200 South, Suite 300
Salt Lake City, Utah 84119
(801) 521-8529 - awaeng.com

PROFESSIONAL ENGINEER — No. 7972868 — SHAUN K. YOUNG — 9/15/26 — STATE OF UTAH

REV	DATE	DESCRIPTION

CLIENT INFORMATION:
Harmons

CLIENT LOGO:
HARMONS

Utility Plan

Harmons Spanish Fork
264 E 400 N
Spanish Fork, Utah, 84664

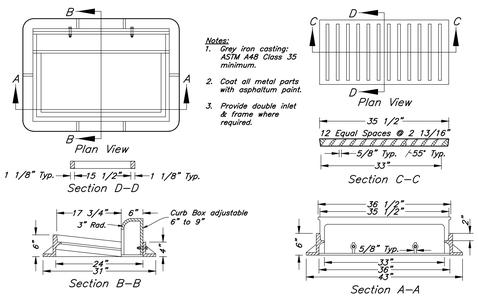
Project Information	
Designer:	JM/KF
PM:	SY
QCM:	XX
Final Review:	XX

23-133 UT

14 Sep, 2026

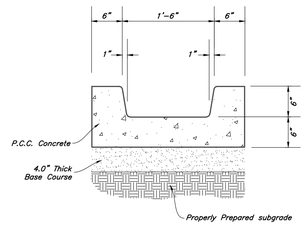
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12 Inlet Grate Frame

Not to Scale



8 Thru Planter Drainage Channel Detail

Not to Scale

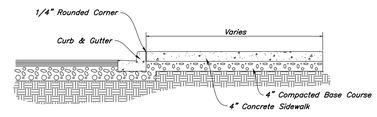
Contraction Joints

A. Spacing = 10' O.C.

Expansion Joints

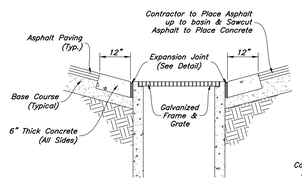
A. Make expansion joints full depth, see joint detail
B. Place expansion joint at all cold joints
C. Expansion joints are required at the start of end of curb radius.

1. See Concrete Joint Detail



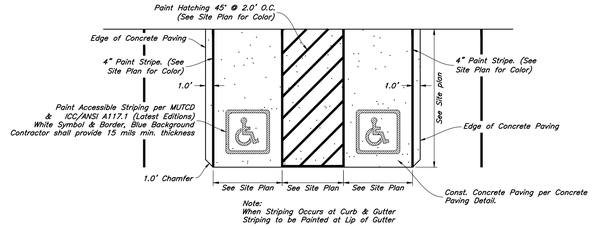
4 Typical Sidewalk Detail

Not to Scale



11 Concrete Collar Detail

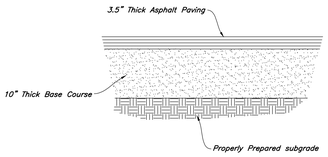
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7 Accessible Striping Detail

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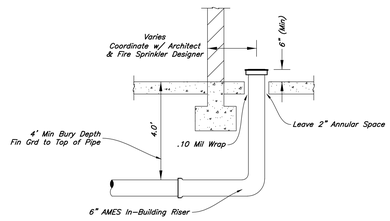
1. See Geotechnical Report for Project



3 Heavy Duty Asphalt Section

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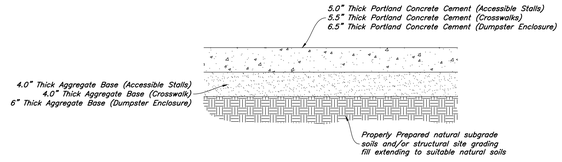
Note:
All Work to Comply with NFPA 24 and Local Jurisdiction Requirements



10 Fire Riser Stub-In Detail

Not to Scale

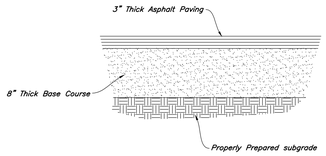
1. See Geotechnical Report for Project for Future Details
2. See Concrete Joint Detail



6 Concrete Paving Section

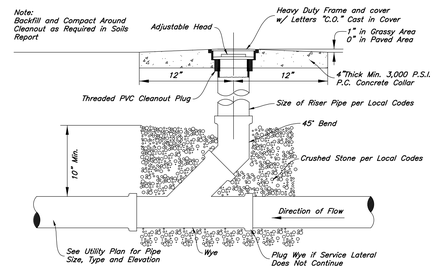
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1. See Geotechnical Report for Project



2 Standard Asphalt Section

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9 Typical Cleanout Detail

Not to Scale

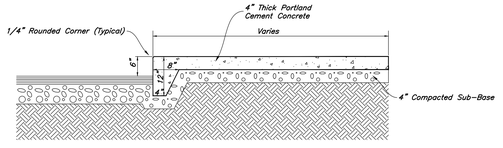
Contraction Joints

A. Spacing = 10' O.C.

Expansion Joints

A. Make expansion joints full depth, see joint detail
B. Place expansion joint at all cold joints
C. Expansion joints are required at the start of end of curb radius.

1. See Concrete Joint Detail

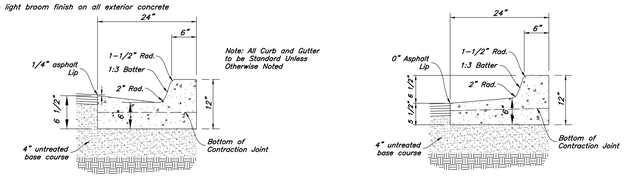


5 Thickened Edge Walk

Not to Scale

1. Contraction Joints
   A. Spacing = 10' o.c., see joint detail
   B. 1/8" wide by 2" deep from top of curb at 15'–0" intervals
2. Expansion Joints
   A. Make expansion joints full depth, see joint detail
   B. Place expansion joint at all cold joints
   C. Expansion joints are required at ends of all radii 0.08.
   D. Required 5'–0" on each side of drainage structures
   E. Required at 90°–0" maximum intervals in straight curb and gutter
   F. Provide #6 x 18" long smooth steel dowel bars with 1" dia. grease cap through expansion joints (½" thick bituminous filler material)
3. 2'–6" Long tie bar on 2'–6" centers shall be provided when curb is adjacent to P.C.C. pavement
4. Provide (2) #6 x 2'–6" long tie bars to connect existing and new curb and gutter
5. Remove forms as early as possible. Brush top and face of curbs to remove all imperfections. Typical of all form work.
6. All radii shall be true arcs
7. Medium to light broom finish on all exterior concrete

1. See Concrete Joint Detail



1 24" Curb And Gutter

Not to Scale

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Salt Lake City, Utah 84119
(801) 521-8529 - awaeng.com

LICENSED PROFESSIONAL ENGINEER — No. 7972868 — SHAUN S. YOUNG — 9/15/26 — STATE OF UTAH

REV	DATE	DESCRIPTION

CLIENT INFORMATION:

Harmons

CLIENT LOGO:

HARMONS

Details

Harmons Spanish Fork

2643 East 400 North
Spanish Fork, Utah, 84664

Project Information	
Designer:	JM/KF
PM:	SY
QCM:	XX
Final Review:	XX

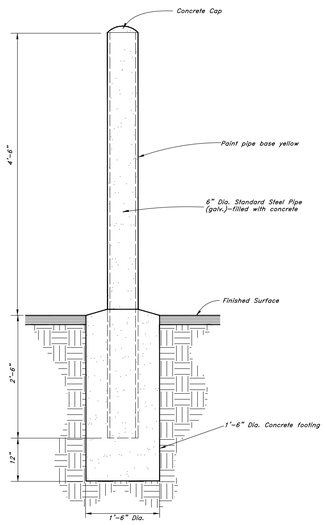
23-133 DT

14 Sep, 2026

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18 6" Concrete Bollard

Not to Scale

1. *REINFORCEMENT: ASTM A 615, grade 60, galvanized or epoxy coated deformed steel rebar or smooth steel dowels with diameter and length as indicated.*

   A. Space rebar and dowels at 12 to 15 inches on center.
   B. Grease dowels to provide movement in expansion joints.
   C. Keep tie bars in the vertical center of the concrete slab and perpendicular to the joint during concrete placement.

2. *SAWING: Keep at least 3 working power saws on–site when concrete is being placed. Saw crack control joints (contraction joints) before shrinkage cracking takes place. Do not tear or ravel concrete during sawing. In cool weather, the joint sawing may be delayed only for the time required to prevent tearing and raveling the concrete. Cut joints to dimensions recommend by sealant manufacturer and approved by ENGINEER.*

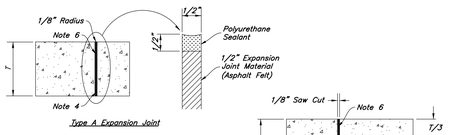
3. *JOINTS: Lay out joints to aid construction and control random cracking.*

   A. Joint Spacing shall be 12 feet maximum on center in both directions.
   B. Extend transverse contraction joints continuously across the full width of the concrete. Make the joints coincide with curb and gutter joints.
   C. Make adjustments in joint locations to meet inlet or manhole locations.
   D. Expansion Joints shall be placed where concrete abuts a building wall, sidewalk, curb, gutter or any immovable structure.

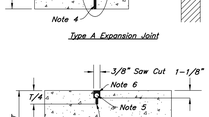
4. *JOINT FILLER: Bituminous (Asphalt or tar) mastic, ASTM D994. Formed and encased between 2 layers of bituminous saturated felt or 2 layers of glass–fiber felt extending to the bottom of the concrete slab.*

5. *BACKER ROD: Round Rods. It must be oversized approximately 25 percent to fit tightly into each joint and compatible with hot poured sealant.*

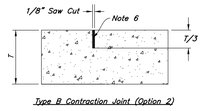
6. *JOINT SEALANT: Hot applied, Asphalt base type, ASTM D 3405. Remove dirt, oil, and curing compounds from joint reservoir. Seal joints immediately after cleaning.*



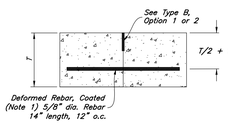
Type A Expansion Joint



Type B Contraction Joint (Option 1)

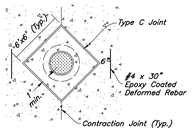


Type B Contraction Joint (Option 2)

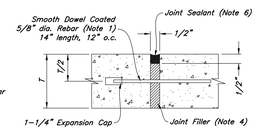


Type C Construction/Cold Joint

Rebar at all corners of expansion joints that do not intersect a contraction joint.



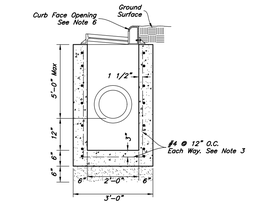
Example 1



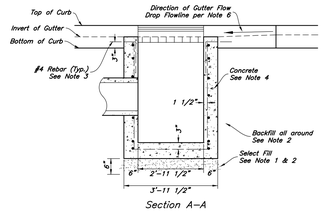
Type F Doweled Expansion Joint at Construction/Cold Joint

16 Concrete Joint Detail

Not to Scale



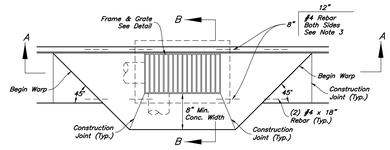
Section B–B



Section A–A

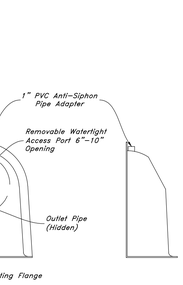
Catch Basin Notes:

1. *Select Fill: Use untreated base course grade 1 or grade 3/4 per APWA Section 02060. Use of sewer rock or recycled aggregate requires Engineers written approval.*
2. *Backfill: Install and compact all backfill material or APWA Section 02321.*
3. *Reinforcement: Use ASTM A 615, grade 60 deformed steel rebar. See APWA Section 03200.*
4. *Concrete: Class 4,000 per APWA Section 03304. Place per APWA Section 03310. Apply a sealing / curing compound per APWA Section 03390 or use an acceptable alternate curing method.*
5. *Pipe Laterals: The drawing shows alternate connections to the curb outlet. Refer to construction drawings for connection locations.*
6. *Curb Face Opening: Make opening 4 inches high. Provide at least a 2 inch drop from the gutter flowline to the invert of the curb face opening.*
7. *Conc. Apron in front of Inlet Grate to be 8" min. & 12" max.*

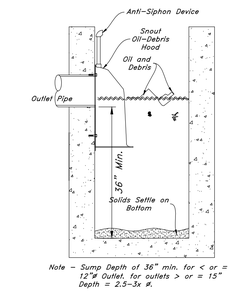


14 Curb Inlet with Single Grate

Not to Scale



Front View



Note – Sump Depth of 36" min. for < or = 12"ø Outlet, for outlets > or = 15" Depth = 2.5–3x ø.

Side View

Snout Oil–Water Debris Separator

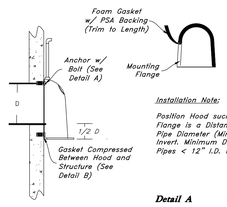
Notes:

1. *All hoods and traps for catch basins and water quality structures shall be as manufactured by:*

   Best Management Products, inc.
   53 MT. Archer RD.
   lyme, CT 06371
   (860) 434–0277, (860) 434–3195 fax
   toll free: (800) 504–8008 or (888) 354–7585
   web site: www.bestmp.com
   or pre–approved equal

2. *All hoods shall be constructed of a glass reinforced resin composite with iso gel coat exterior finish with a minimum 0.125" laminate thickness.*
3. *All hoods shall be equipped with a watertight access port, a mounting flange, and an anti–siphon vent as drawn. (see configuration detail)*
4. *The size and position of the hood shall be determined by outlet pipe size as per manufacturer's recommendation.*
5. *The bottom of the hood shall extend downward a distance equal to 1/2 the outlet pipe diameter with a minimum distance of 6" for pipes <12" i.d.*
6. *The anti–siphon vent shall extend above hood by minimum of 3" and a maximum of 24" according to structure configuration.*
7. *The surface of the structure where the hood is mounted shall be finished smooth and free of loose material.*
8. *The hood shall be securely attached to structure wall with 3/8" stainless steel bolts and oil–resistant gasket as supplied by manufacturer. (see installation detail)*
9. *Installation instructions shall be furnished with manufacturer supplied installation kit.*
   installation kit shall include:
   a. installation instructions
   b. pvc anti–siphon vent pipe and adapter
   c. oil–resistant crushed cell foam gasket with psa backing
   d. 3/8" stainless steel bolts
   e. anchor shields

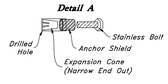
Detail B



Installation Note:

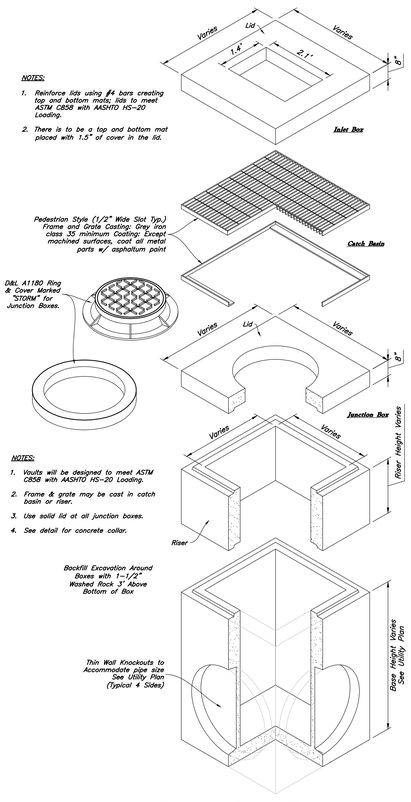
Position Hood such that Bottom Flange is a Distance of 1/2 Outlet Pipe Diameter (Min.) Below the Pipe Invert. Minimum Distance for Pipes < 12" I.D. is 6".

Detail A



17 "Snout" Detail

Not to Scale



NOTES:

1. *Reinforce lids using #4 bars creating top and bottom mats; lids to meet ASTM C858 with AASHTO HS–20 Loading.*
2. *There is to be a top and bottom mat placed with 1.5" of cover in the lid.*

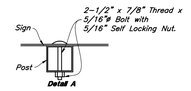
NOTES:

1. *Vaults will be designed to meet ASTM C858 with AASHTO HS–20 Loading.*
2. *Frame & grate may be cast in catch basin or riser.*
3. *Use solid lid at all junction boxes.*
4. *See detail for concrete collar.*

Precast Catch Basin Junction Box/inlet

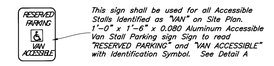
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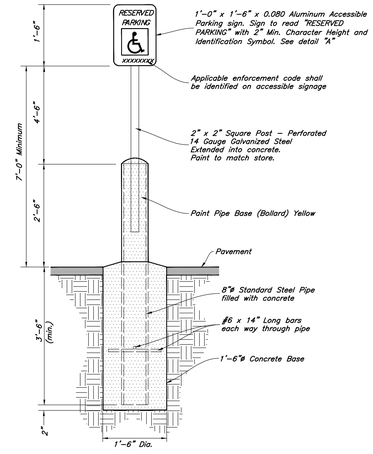


Sign Mounting

Accessible Van Stall Alternate Sign



This sign shall be used for all Accessible Stalls identified as "VAN" on Site Plan. 1'–0" x 1'–6" x 0.080 Aluminum Accessible Van Stall Parking sign Sign to read "RESERVED PARKING" and "VAN ACCESSIBLE" with Identification Symbol. See Detail A



13 In Parking Lot Areas Accessible Parking Sign w/ Bollard

Not to Scale

AWA
1385 West 2200 South, Suite 300
Salt Lake City, Utah 84119
(801) 521-8529 - awaeng.com

REGISTERED PROFESSIONAL ENGINEER
No. 7972988
SHAUN K. YOUNG
9/15/26
STATE OF UTAH

REV	DATE	DESCRIPTION

CLIENT INFORMATION:

Harmons

CLIENT LOGO:

HARMONS

Details

Harmons Spanish Fork
2643 East 400 North
Spanish Fork, Utah, 84664

Project Information	
Designer:	JM/KF
PM:	SY
QCM:	XX
Final Review:	XX

23–133 DT

14 Sep, 2026

SHEET NO.
C4.2

C:\Users\Jeff\Documents\Harmons Spanish Fork\Dwgs\23-133 DT.dwg, 9/15/2026 12:04:18 PM, 1:1

24 **Not Used**

Not to Scale

23 **Not Used**

Not to Scale

StormTech MC-7200 North Retention System 3 Specifications (7,373 Cu. Ft.)

22

Not to Scale

User Inputs

Chamber Model:	MC-7200
Outlet Control Structure:	No
Project Name:	Harmons Spanish Fork
Engineer:	Kevin Fong
Project Location:	Utah
Measurement Type:	Imperial
Required Storage Volume:	7176 cubic ft.
Stone Porosity:	40%
Stone Foundation Depth:	12 in.
Stone Above Chambers:	12 in.
Design Constraint Dimensions:	(20 ft. x 180 ft.)

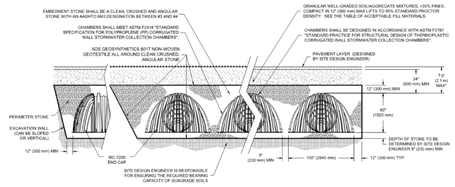
Results

System Volume and Bed Size

Installed Storage Volume:	7373.73 cubic ft.
Storage Volume Per Chamber:	175.90 cubic ft.
Number Of Chambers Required:	24
Number Of End Caps Required:	2
Chamber Rows:	1
Maximum Length:	165.67 ft.
Maximum Width:	10.33 ft.
Approx. Bed Size Required:	1711.89 square ft.
Average Cover Over Chambers:	N/A .

System Components

Amount Of Stone Required (0% Overage):	285 cubic yards
(Cubic yard to ton factor:1.4):	398.36 tons
Volume Of Excavation (Not Including Fill):	444 cubic yards
Total Non-woven Geotextile Required:	786 square yards
Woven Geotextile Required (excluding Isolator Row):	0 square yards
Woven Geotextile Required (Isolator Row):	382 square yards
Total Woven Geotextile Required:	382 square yards
Impervious Liner Required:	0 square yards



*MINIMUM COVER TO BOTTOM OF FLEXIBLE PAVEMENT. FOR UNPAVED INSTALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 30" (750 mm).

StormTech MC-7200 North Retention System 2 Specifications (5,892 Cu. Ft.)

21

Not to Scale

User Inputs

Chamber Model:	MC-7200
Outlet Control Structure:	No
Project Name:	Harmons Spanish Fork
Engineer:	Kevin Fong
Project Location:	Utah
Measurement Type:	Imperial
Required Storage Volume:	5659 cubic ft.
Stone Porosity:	40%
Stone Foundation Depth:	12 in.
Stone Above Chambers:	12 in.
Design Constraint Dimensions:	(25 ft. x 140 ft.)

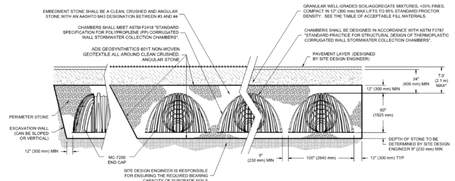
Results

System Volume and Bed Size

Installed Storage Volume:	5892.43 cubic ft.
Storage Volume Per Chamber:	175.90 cubic ft.
Number Of Chambers Required:	19
Number Of End Caps Required:	2
Chamber Rows:	1
Maximum Length:	132.71 ft.
Maximum Width:	10.33 ft.
Approx. Bed Size Required:	1371.32 square ft.
Average Cover Over Chambers:	N/A .

System Components

Amount Of Stone Required (0% Overage):	229 cubic yards
(Cubic yard to ton factor:1.4):	320.35 tons
Volume Of Excavation (Not Including Fill):	356 cubic yards
Total Non-woven Geotextile Required:	633 square yards
Woven Geotextile Required (excluding Isolator Row):	0 square yards
Woven Geotextile Required (Isolator Row):	305 square yards
Total Woven Geotextile Required:	305 square yards
Impervious Liner Required:	0 square yards



*MINIMUM COVER TO BOTTOM OF FLEXIBLE PAVEMENT. FOR UNPAVED INSTALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 30" (750 mm).

StormTech MC-7200 North Retention System 1 Specifications (5,003 Cu. Ft.)

20

Not to Scale

User Inputs

Chamber Model:	MC-7200
Outlet Control Structure:	No
Project Name:	Harmons Spanish Fork
Engineer:	Kevin Fong
Project Location:	Utah
Measurement Type:	Imperial
Required Storage Volume:	4899 cubic ft.
Stone Porosity:	40%
Stone Foundation Depth:	12 in.
Stone Above Chambers:	12 in.
Design Constraint Dimensions:	(25 ft. x 120 ft.)

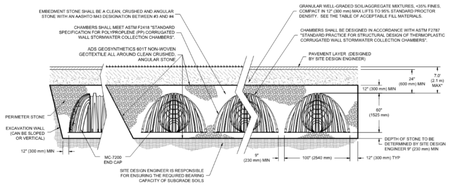
Results

System Volume and Bed Size

Installed Storage Volume:	5003.65 cubic ft.
Storage Volume Per Chamber:	175.90 cubic ft.
Number Of Chambers Required:	16
Number Of End Caps Required:	2
Chamber Rows:	1
Maximum Length:	112.93 ft.
Maximum Width:	10.33 ft.
Approx. Bed Size Required:	1166.98 square ft.
Average Cover Over Chambers:	N/A .

System Components

Amount Of Stone Required (0% Overage):	196 cubic yards
(Cubic yard to ton factor:1.4):	273.54 tons
Volume Of Excavation (Not Including Fill):	303 cubic yards
Total Non-woven Geotextile Required:	542 square yards
Woven Geotextile Required (excluding Isolator Row):	0 square yards
Woven Geotextile Required (Isolator Row):	259 square yards
Total Woven Geotextile Required:	259 square yards
Impervious Liner Required:	0 square yards



*MINIMUM COVER TO BOTTOM OF FLEXIBLE PAVEMENT. FOR UNPAVED INSTALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 30" (750 mm).

StormTech MC-7200 South Retention Specifications (23,637 Cu. Ft.)

19

Not to Scale

User Inputs

Chamber Model:	MC-7200
Outlet Control Structure:	No
Project Name:	Harmons Spanish Fork
Engineer:	Kevin Fong
Project Location:	Utah
Measurement Type:	Imperial
Required Storage Volume:	22345 cubic ft.
Stone Porosity:	40%
Stone Foundation Depth:	12 in.
Stone Above Chambers:	12 in.
Design Constraint Dimensions:	(75 ft. x 93 ft.)

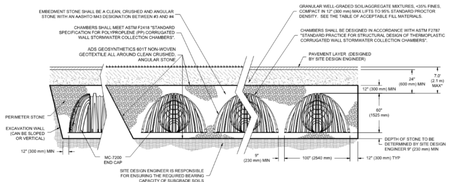
Results

System Volume and Bed Size

Installed Storage Volume:	23637.42 cubic ft.
Storage Volume Per Chamber:	175.90 cubic ft.
Number Of Chambers Required:	77
Number Of End Caps Required:	14
Chamber Rows:	7
Maximum Length:	84.46 ft.
Maximum Width:	64.83 ft.
Approx. Bed Size Required:	5420.92 square ft.
Average Cover Over Chambers:	N/A .

System Components

Amount Of Stone Required (0% Overage):	884 cubic yards
(Cubic yard to ton factor:1.4):	1236.62 tons
Volume Of Excavation (Not Including Fill):	1406 cubic yards
Total Non-woven Geotextile Required:	1725 square yards
Woven Geotextile Required (excluding Isolator Row):	146 square yards
Woven Geotextile Required (Isolator Row):	182 square yards
Total Woven Geotextile Required:	328 square yards
Impervious Liner Required:	0 square yards



*MINIMUM COVER TO BOTTOM OF FLEXIBLE PAVEMENT. FOR UNPAVED INSTALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 30" (750 mm).

AWA
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(801) 521-8529 - awaeng.com

PROFESSIONAL ENGINEER — No. 7972868 — SHAUN R. YOUNG — 9/15/26 — STATE OF UTAH

REV	DATE	DESCRIPTION

CLIENT INFORMATION:

Harmons

CLIENT LOGO:

HARMONS

Details

Harmons Spanish Fork

2643 East 400 North
Spanish Fork, Utah, 84664

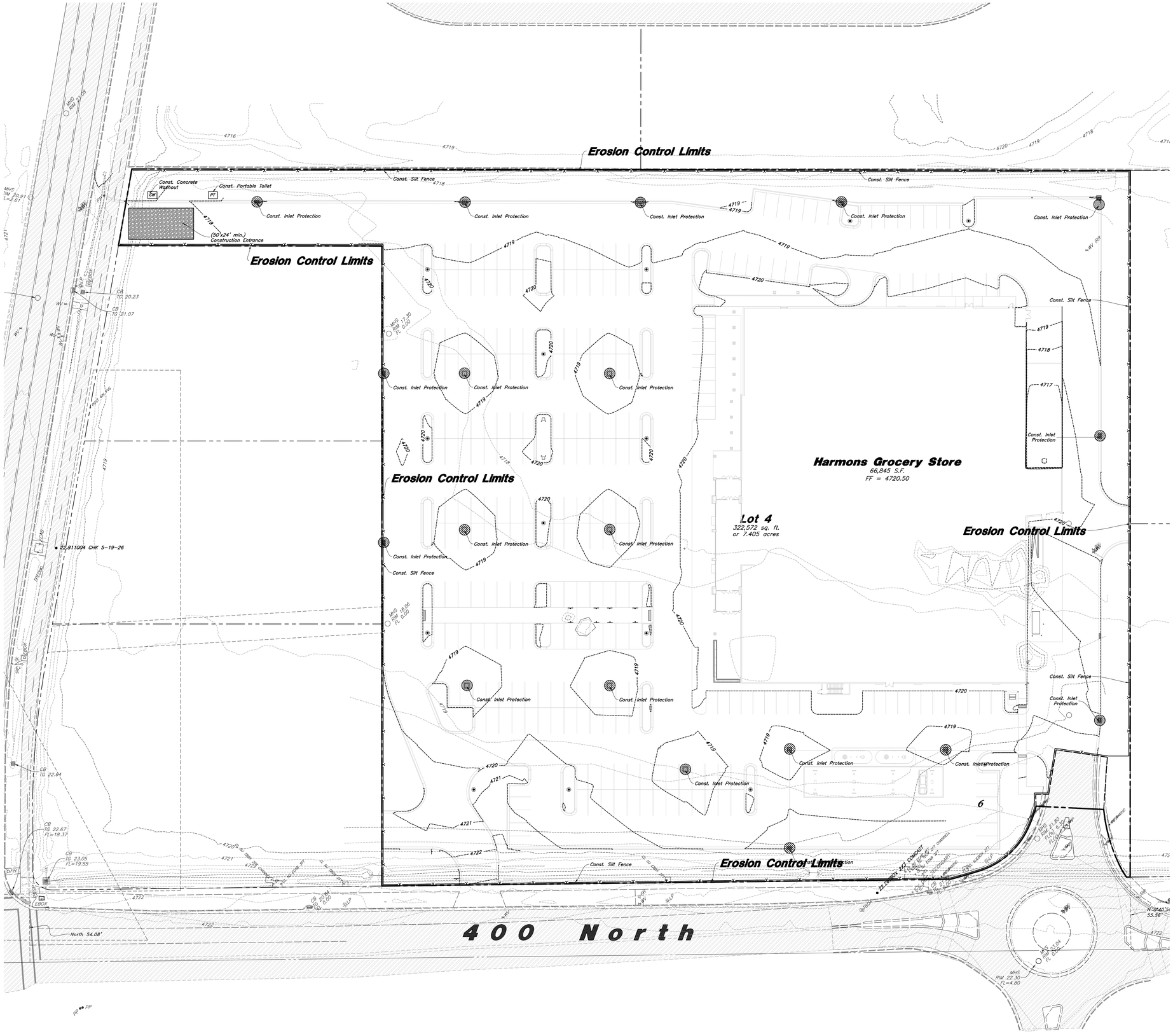
Project Information	
Designer:	JM/KF
PM:	SY
QCM:	XX
Final Review:	XX
23-133 DT	

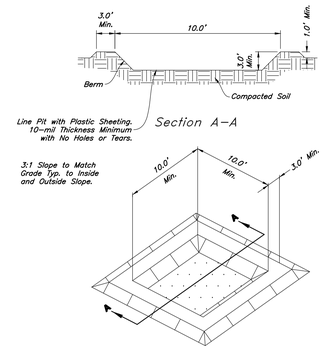
14 Sep, 2026

SHEET NO.

C4.3

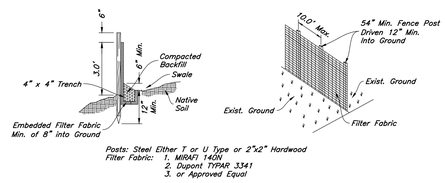
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Erosion Control Limits
Const. Concrete Washout
CW
Const. Portable Toilet
PT
Const. Silt Fence
Const. Inlet Protection
(50'x24' min.) Construction Entrance
Erosion Control Limits
Harmons Grocery Store
66,845 S.F.
FF = 4720.50
Lot 4
322,572 sq. ft.
or 7.405 acres
Erosion Control Limits
Erosion Control Limits
Erosion Control Limits
Const. Silt Fence
Const. Inlet Protection
Const. Inlet Protection
Const. Silt Fence
Const. Inlet Protection
Const. Inlet Protection
Const. Inlet Protection
Const. Inlet Protection
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Const. Inlet Protection
Const. Inlet Protection
Const. Silt Fence
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Const. Silt Fence



4 **Concrete Washout**

Not to Scale

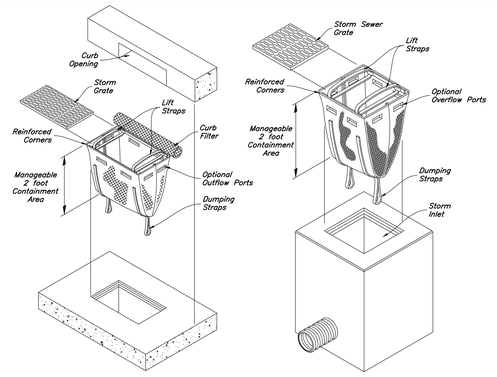


Notes:

1. Filter cloth to be fastened securely to fence posts with wire ties or staples.
2. When two sections of filter cloth adjoin each other they shall be overlapped by six inches and folded.
3. Collected material shall be removed when "bulges" develop in the silt fence.

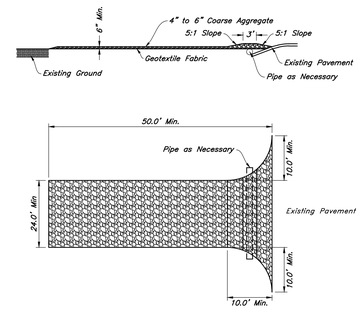
3 **Silt Fence Section**

Not to Scale



2 **Inlet Protection**

Not to Scale



1 **Stabilized Construction Entrance**

Not to Scale

1385 West 2200 South, Suite 300
Salt Lake City, Utah 84119
(801) 521-8529 - awaeng.com

REGISTERED PROFESSIONAL ENGINEER
No. 7972382
SHAUN K. YOUNG
9/15/26
STATE OF UTAH

REV	DATE	DESCRIPTION

CLIENT INFORMATION:

Harmons

CLIENT LOGO:

HARMONS

Erosion Control Details

Harmons Spanish Fork

2643 East 400 North
Spanish Fork, Utah, 84664

Project Information	
Designer:	JM/KF
PM:	SY
QCM:	XX
Final Review:	XX

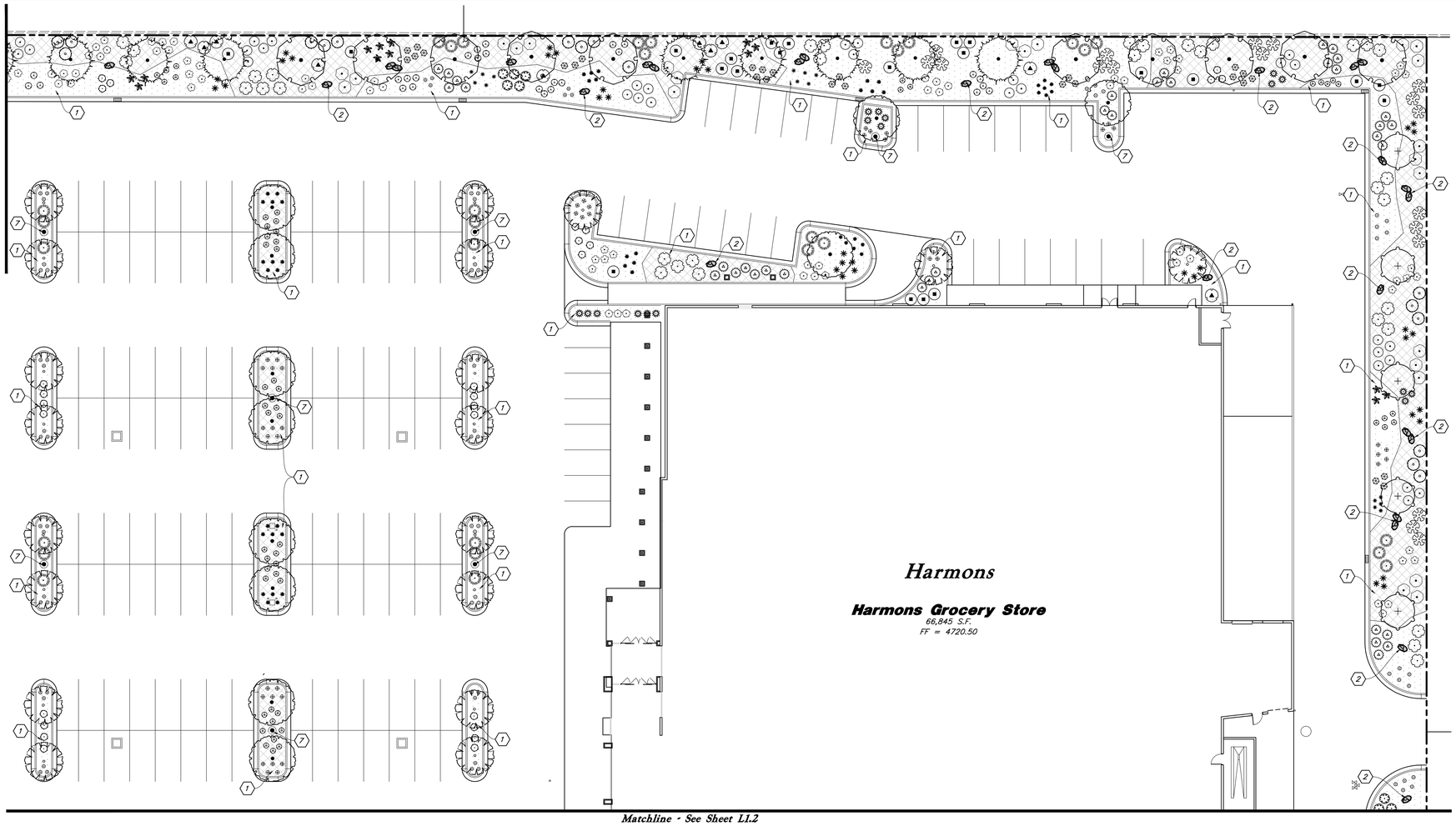
23-133 EC

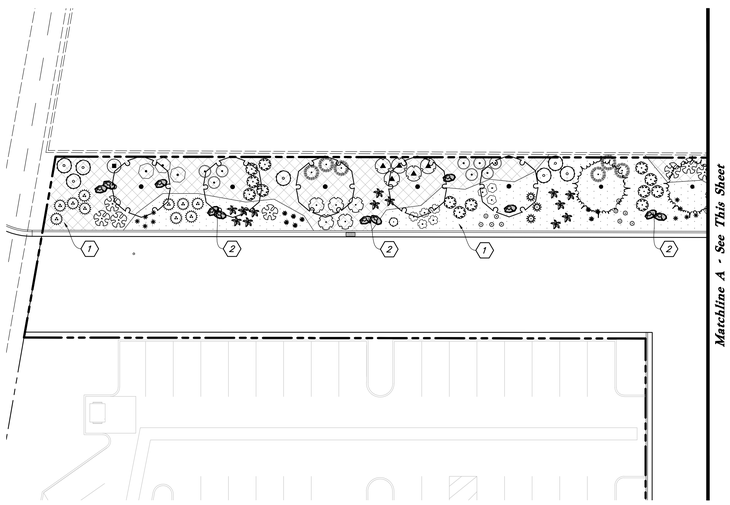
14 Sep, 2026

SHEET NO.

C5.2

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Landscape Data

Zone: C-2 General Commercial
Site Area = 322,573 s.f. (7.41 ac.)
Landscape Area Required = 48,386 s.f. (15%)
Onsite Landscape Area Provided = 55,769 s.f. (17%)
Offsite Landscape Area Provided = 712 s.f.
E 400 N Frontage = 327 l.f. *
E 400 N Trees Required = 11 Trees (11 Provided)
Site Trees Required = 48 Trees (89 Provided) *
Existing Site Trees = 3 Trees
50% Coverage at Plant Maturity

*Site Trees Include Street Trees

Scale: 1" = 20'

20' 0 20' 40'

Landscape Installation Keynotes

1. Install Shrub Planter with Decorative Stone Over Weed Barrier – See Material Sch. for Type and Size
2. Install Landscape Boulder – See Material Sch. for More Detail
3. Existing Landscape to Remain
4. Existing Street Trees to Remain
5. Existing Utilities – See Civil Plan for More Detail
6. Existing Fire Hydrant – See Civil Plan for More Detail
7. New Light Pole – See Civil Plan for More Detail

Landscape Notes:

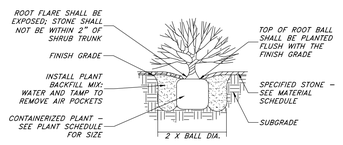
1. All Landscape Material Shall be Fully Irrigated by an Automatic Irrigation System. Point Source Drip Shall be Used to Irrigate Shrub Areas. See Sheet L2.1 and L2.2 for Layout and Notes. See Sheet L3.1 for Details. The Irrigation System Shall be Equipped with a WaterSense Approved Controller and a Rain Sensor Shut Off Device.
2. The Existing Secondary Water Meter and Serviceline Shall be Utilized for Irrigation.
3. All Areas Disturbed by Construction Shall be Landscaped and Not Left Undone.
4. No Edging Shall be Used Between Two Different Sized Rocks. Provide a Defined Visual Line Between Two Rock Sizes.
5. All Plant Material Shall be Selected From the SLC Plant List and Hydrozone Schedule 2013.
6. Landscape and Irrigation in Parkstrip Shall be Maintained by Harmons. Landscape Behind Sidewalk, in Parking Lot and Around Building Shall be Maintained by Harmons.
7. All Tags Must Remain on the Trees Until the Site has been Inspected and the Improvements Approved by the City.
8. Trees and Shurbs Shall be Replaced After the First Two (2) Growing Seasons if they Die or Fail to Reach the Minimum Required Size by October 15th of the Second Year After the Landscaping was Installed and Inspected by the City.

PLANT SCHEDULE

SYMBOL	QTY	BOTANICAL / COMMON NAME	SIZE
EVERGREEN TREES			
	10	Pinus nigra / Austrian Pine	6–8' Ht.
SITE TREES			
	15	Acer tataricum 'GarAnn' / Hot Wings Tatarian Maple	2" Caliper
	10	Carpinus betulus 'Frans Fontaine' / Frans Fontaine Hornbeam	2" Caliper
	31	Zelkova serrata "Musashino" / Musashino Japanese Zelkova	2" Caliper
STREET TREES			
	5	Tilia cordata "Greenspire" / Greenspire Littleleaf Linden	2" Caliper
	15	Tilia tomentosa / Silver Linden	2" Caliper
	3	Zelkova serrata 'Village Green' / Village Green Japanese Zelkova	2" Caliper
SHRUBS			
	46	Caragana pygmaea / Pygmy Peashrub	5 gal
	45	Caryopteris x clandonensis 'Dark Knight' / Blue Mist Shrub	5 gal
	46	Chamaebatiaria millefolium / Fernbush	5 gal
	41	Fallugia paradoxa / Apache Plume	5 gal
	65	Forsythia x 'Gold Tides' / Golden Tide Forsythia	5 gal
	50	Juniperus sabina 'Buffalo' / Buffalo Juniper	5 gal
	38	Physocarpus opulifolius 'Summer Wine' / Summer Wine Ninebark	5 gal
	53	Potentilla fruticosa 'Goldfinger' / Goldfinger Potentilla	5 gal
	31	Prunus x cistena / Purple Leaf Sand Cherry	5 gal
	66	Rhus aromatica Autumn Amber / Autumn Amber Sumac	5 gal
	53	Ribes alpinum 'Green Mound' / Green Mound Alpine Currant	5 gal
	39	Rosa Meidiland series 'Red' / Red Meidiland Rose	5 gal
	52	Salvia dorrii / Desert Sage	5 gal
	67	Spiraea x bumalda "Anthony Waterer" / Anthony Waterer Spirea	5 gal
PERENNIALS			
	69	Hemerocallis x 'Red Hot Returns' / Red Hot Returns Daylily	1 gal
	70	Hemerocallis x 'Stella de Oro' / Stella de Oro Daylily	1 gal
	60	Lavandula angustifolia 'Hidcote Blue' / Blue Lavender	1 gal
	64	Nepeta x faassenii 'Dropmore' / Catmint	1 gal
	61	Penstemon eatonii / Firecracker Penstemon	1 gal
	46	Perovskia atriplicifolia / Russian Sage	2 gal
	70	Rudbeckia fulgida 'Goldstrum' / Black Eyed Susan	1 gal
EVERGREEN SHRUB			
	60	Arctostaphylos x coloradensis 'Panchito' / Panchito Manzanita	3 gal.
	65	Juniperus horizontalis 'Bar Harbor' / Bar Harbor Creeping Juniper	5 gal
ORNAMENTAL GRASSES			
	70	Bouteloua gracilis 'Blonde Ambition' / Blonde Ambition Blue Grama	1 gal
	77	Calamagrostis x acutiflora 'Karl Foerster' / Feather Reed Grass	2 gal
	76	Pennisetum alopecuroides 'Little Bunny' / Little Bunny Fountain Grass	1 gal

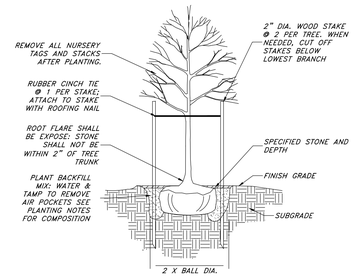
MATERIAL SCHEDULE

	Decorative Stone #1 – Install over Dewitt Pro5 Weed Barrier at a Four (4) Inch Depth to Cover Weed Barrier; Stone Shall be Used in all Specified Shrub Areas Where Shown on Plan and Washed Prior to Installation; Stone Shall be 1 1/2" Crushed, Tan Colored Stone From Point of the Mountain East Geneva Rock Pit; Submit Sample for Approval	Detail: 3/L1.2
	Decorative Stone #2 – Install over Dewitt Pro5 Weed Barrier at a Eight (8) Inch Depth to Cover Weed Barrier; Stone Shall be Used in all Specified Shrub Areas Where Shown on Plan and Washed Prior to Installation; Stone Shall be 4" Diameter, Crushed, Grayish–White Stone From Stoker Parson Eagle Mountain Pit; Submit Sample for Approval	Detail: 3/L1.2
	Landscape Boulder – Boulders Shall be 4–5' in Diameter, Angular, Brown's Canyon Boulder (Tan Color) From Mountain Valley Stone; Boulders Shall be Recessed into Stone Two (2) Inches and Washed Prior to Installation; Submit Photo for Approval	Detail: 4/L1.2



NOTE:
1. SEE GENERAL LANDSCAPE NOTES FOR PLANT BACKFILL MIX COMPOSITION.
2. REMOVE ALL NURSERY TAGS AND STAKES AFTER PLANTING.

1 SHRUB PLANTING
NOT TO SCALE



2 DECIDUOUS TREE PLANTING
NOT TO SCALE

Know what's below. Call before you dig.

AWA
1385 West 2200 South, Suite 300
Salt Lake City, Utah 84119
(801) 521-8529 - awaeng.com

State of Utah – Licensed Professional Landscape Architect
Jared R. Monsicil
No. 7742483-5301
09/15/2026

NO	DESCRIPTION	DATE

CLIENT INFORMATION:
Harmons

CLIENT LOGO:
HARMONS

Landscape Plan

Harmons Spanish Fork

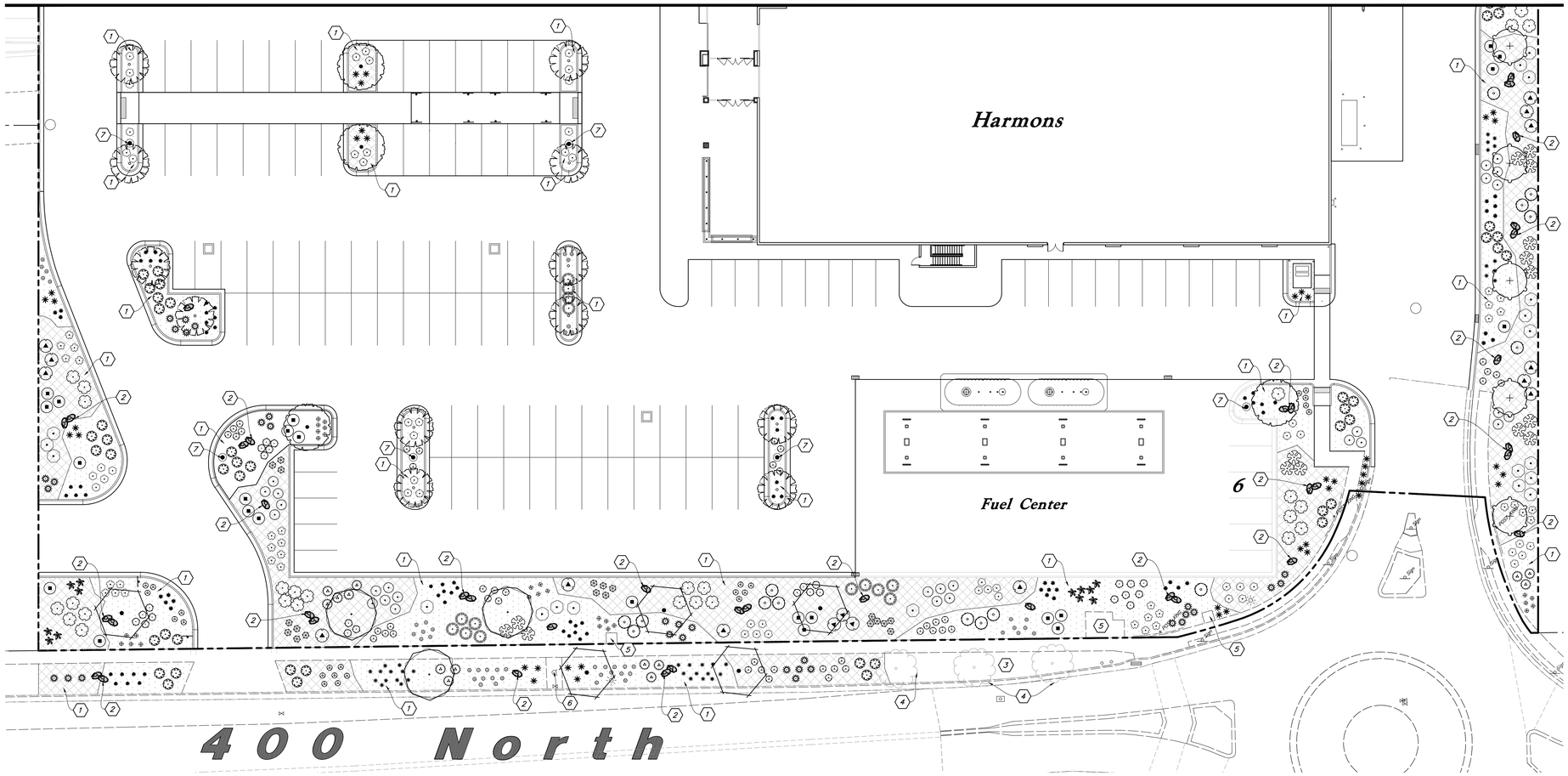
2643 East 400 North
Spanish Fork, Utah, 84664

Project Information	
Designer:	JM/KF
PM:	SY
QCM:	XX
Final Review:	XX
23–133 LS	

14 Sep, 2026

SHEET NO.
L1.1

W:\23-133 Harmons Spanish Fork\Dwgs\23-133 LS.dwg, 9/15/2026 12:06:18 PM, 1:1



Scale: 1" = 20'

20' 0 20' 40'

Landscape Installation Keynotes

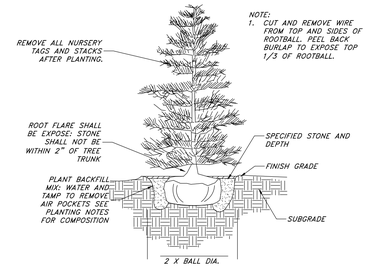
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2. Install Landscape Boulder – See Material Sch. for More Detail
3. Existing Landscape to Remain
4. Existing Street Trees to Remain
5. Existing Utilities – See Civil Plan for More Detail
6. Existing Fire Hydrant – See Civil Plan for More Detail
7. New Light Pole – See Civil Plan for More Detail

Landscape Notes:

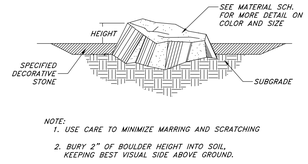
1. All Landscape Material Shall be Fully Irrigated by an Automatic Irrigation System. Point Source Drip Shall be Used to Irrigate Shrub Areas. See Sheet L2.1 and L2.2 for Layout and Notes. See Sheet L3.1 for Details. The Irrigation System Shall be Equipped with a WaterSense Approved Controller and a Rain Sensor Shut Off Device.
2. The Existing Secondary Water Meter and Serviceline Shall be Utilized for Irrigation.
3. All Areas Disturbed by Construction Shall be Landscaped and Not Left Undone.
4. No Edging Shall be Used Between Two Different Sized Rocks. Provide a Defined Visual Line Between Two Rock Sizes.
5. All Plant Material Shall be Selected From the SLC Plant List and Hydrozone Schedule 20I.3.
6. Landscape and Irrigation in Parkstrip Shall be Maintained by Harmons. Landscape Behind Sidewalk, in Parking Lot and Around Building Shall be Maintained by Harmons.
7. All Tags Must Remain on the Trees Until the Site has been Inspected and the Improvements Approved by the City.
8. Trees and Shurbs Shall be Replaced After the First Two (2) Growing Seasons if they Die or Fail to Reach the Minimum Required Size by October 15th of the Second Year After the Landscaping was Installed and Inspected by the City.

General Landscape Notes:

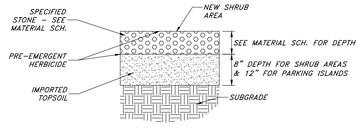
1. Plant material quantities are provided for bidding purposes only. It is the contractors responsibility to verify all quantities listed on the plans and the availability of all plant materials and their specified sizes prior to submitting a bid. The contractor must notify the Landscape Architect prior to submitting a bid if the contractor determines a quantity deficiency or availability problem with specified material. The contractor shall provide sufficient quantities of plants equal to the symbol count or to fill the area shown on the plan using the specified spacing. Plans take precedence over plant schedule quantities.
2. Contractor shall call Idaho 811 before excavation for plant material.
3. Prior to construction, the contractor shall be responsible for locating all underground utilities and shall avoid damage to all utilities during the course of the work. It shall be the responsibility of the contractor to protect all utility lines during the construction period, and repair any and all damage to utilities, structures, site appurtenances, etc. which occurs as a result of the landscape construction.
4. The landscape contractor shall examine the site conditions under which the work is to be performed and notify the general contractor in writing of unsatisfactory conditions. Do not proceed until conditions have been corrected.
5. The contractor shall provide all materials, labor and equipment required for the proper completion of all landscape work as specified and shown on the drawings.
6. See civil drawings for all hardscape, grading, and drainage information.
7. Contractor safety and cleanup must meet OSHA standards at all times. All contractors must have adequate liability, personnel injury and property damage insurance. Clean-up must be performed daily, and all hardscape areas must be washed free of dirt and mud on final cleanup. Construction must occur in a timely manner.
8. All new plant material shall conform to the minimum guidelines established by the American Standard for Nursery Stock Published by the American Association of Nurserymen, Inc. In addition, all new plant material shall be of specimen quality.
9. The Owner/Landscape Architect has the right to reject any and all plant material not conforming to the plans and specifications.
10. Any proposed substitutions of plant species shall be made with plants of equivalent overall form, height, branching habit, flower, leaf, color, fruit and culture only as approved by the Landscape Architect.
11. It is the contractors responsibility to furnish all plant materials free of pests or plant diseases. It is the contractor's obligation to maintain and warranty all plant materials.
12. The contractor shall take all necessary scheduling and other precautions to avoid winter, climatic, wildlife, or other damage to plants. The contractor shall install the appropriate plants at the appropriate time to guarantee life of plants
13. The contractor shall install all landscape material per plan, notes and details.
14. Plant names are abbreviated on the drawings, see plant schedule for symbols, abbreviations, botanical, common names, sizes, estimated quantities and remarks.
15. No grading or soil placement shall be undertaken when soils are wet or frozen.
16. Existing and/or imported topsoil shall be used in all landscape areas. The landscape contractor shall perform a soil test on imported and/or existing topsoil and amend per soil test recommendations. Soil test shall be done by a certified soil testing agency. Topsoil must be a premium quality dark sandy loam, free of rocks, clods, roots, and plant matter.
17. Prior to placement of topsoil in all landscaping areas, all subgrade areas shall be loosened by scarifying the soil to a depth of 6 inches in order to create a transition layer between existing and new soils.
18. All tree holes shall be dug twice the diameter of the rootball and 6 inches deeper. Excavated material shall be mixed with plant backfill mixture. The top of the root balls, shall be planted flush with the finish grade.
19. Plant backfill mix shall be composed of 3 parts topsoil to 1 part soil conditioner, and shall be mixed at the planting hole. Deep water all plant material immediately after planting. Add backfill mixture to depressions as needed.
20. All new plants to be balled and burlapped or container grown, unless otherwise noted on plant schedule. Container grown trees shall have the container cut and removed. Trees in ball and burlap shall have the strings, burlap or plastic cut and pulled awqy from the trunk exposing 1/3 of the root ball. For trees in wire baskets, cut and remove the wire basket.
21. All deciduous trees shall be double staked per tree staking detail. It is the contractors responsibility to remove tree staking in a timely manner once staked trees have taken root. Deciduous tree ties to be V.I.T. Cinche Ties #CT32.
22. Landscape installer shall repair or replace plantings and accessories that fail in materials, workmanship, or growth within specified warranty period. Failures include, but are not limited to, the following: Death and unsatisfactory growth, except for defects resulting from abuse, lack of adequate maintenance, or neglect by Owner, or incidents that are beyond installer's control. Warranty period shall be 12 months and begin at date of final project acceptance.



3 EVERGREEEN TREE PLANTING
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4 LANDSCAPE BOULDER
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5 LANDSCAPE PREPARATION
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Licensed Professional Landscape Architect
Jared R. Monsiil
No. 7742405-5301
09/15/2026

NO.	DESCRIPTION	DATE

CLIENT INFORMATION:
Harmons

CLIENT LOGO:
HARMONS

Landscape Plan

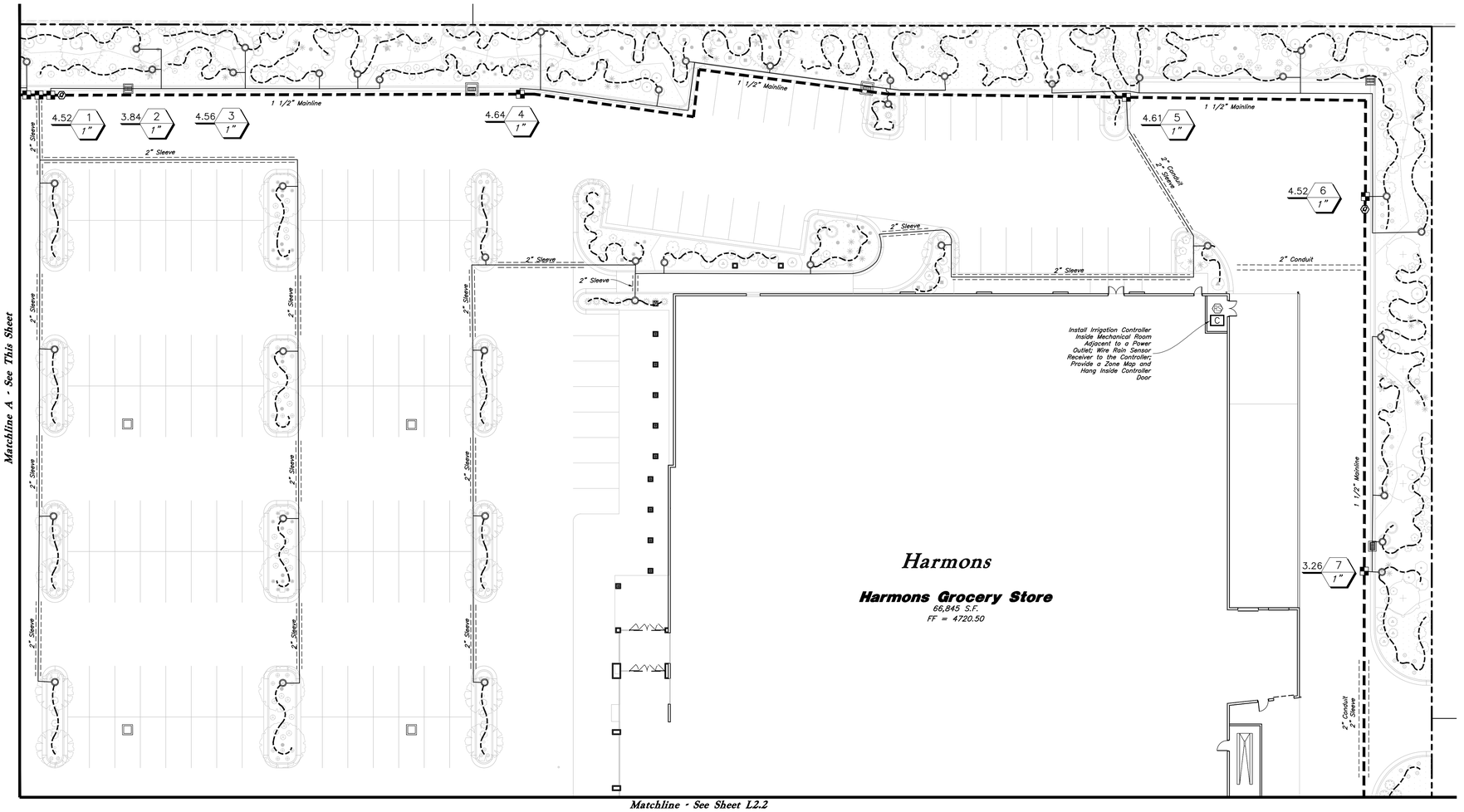
Harmons Spanish Fork

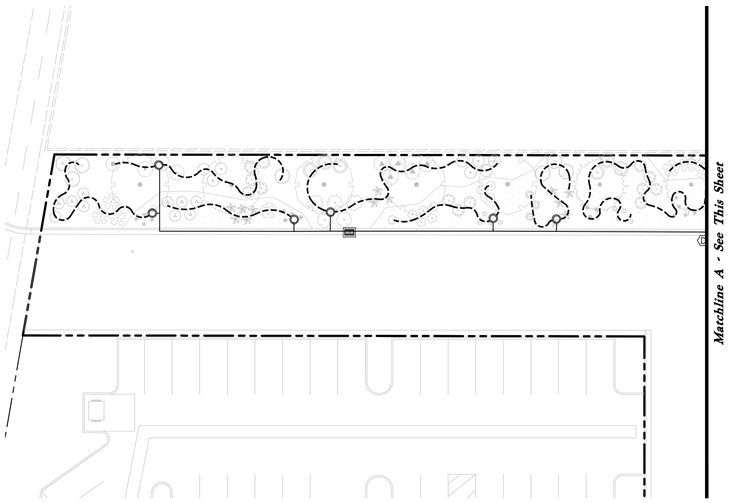
2643 East 400 North
Spanish Fork, Utah, 84664

Project Information	
Designer:	JM/KH
PM:	SY
QCM:	XX
Final Review:	XX
23-133 LS	
14 Sep, 2026	

SHEET NO.
L1.2

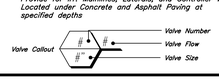
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IRRIGATION SCHEDULE

Symbol	Manufacturer/Model #	Description	Notes	Detail
Valves				
	Rain Bird XCZ-100-PRB-COM	Drip Remote Control Valve	1 Inch Size; Drip Control Zone Kit; Install in Standard Valve Box with 3" Depth of Gravel over Weed Barrier; Install with Water Proof Wire Connectors	3/L3.1
Q	Rain Bird 44-NP	Quick Coupler Valve with Swing Joint and Nonpotable Cap	1 Inch Size; Install in 10" Round Valve Box with 3" Depth of Gravel over Weed Barrier	4/L3.1
D	Matco-Norca 759	Manual Drain Valve	1/2" Inch Size; Install at End of Mainline and After Filter in a 10" Round Valve Box with 6" Depth Sump of Gravel Over Weed Barrier	7/L3.1
Drip				
	PVC Pipe To Drip Tubing	Provide Connection Fittings	Install 1" Feeder Line To All Drip Areas	8/L3.1
	Rain Bird XBS-940 Rain Bird XQ-100 Rain Bird XB-20PC Rain Bird TS025 Rain Bird DBC-025 Rain Bird MDCFCAP	3/4" Distribution Tubing - Pipe shown on Plan is Schematic; Adjust as Needed 1/4" Distribution Tubing - Install one per Emitter Xeri-Bug Emitter (2 Gal/Hr.) - 1 per Perennial & Ornamental Grass, 2 per Shrub & 3 per Tree Tie Down Stake - Tubing to be Staked every 3' Diffuser Bug Cap - Install one per Emitter Removable Flush Cap - Install at the End of Each Line		10/L3.1
P.O.C. Components				
	Nibco T-580-A	Shutoff Ball Valve	2 Inch Size; Install in 10" Round Valve Box with Weed Barrier and Gravel Sump; Valve Shall be Turned Sideways for Easy Maneuvering	1/L3.1
F	Amiad Scanaway Super Filter	Secondary Semi-Automatic Water Filter	2 Inch Size; Filter With 155 Mesh; Install in a GuardShack Enclosure (FGS-3.3) on a Poured Concrete Pad with 2 Locks (CS-AWPKA); Enclosure Color to be Woodland Tan; Verify that there is Sufficient Space From the Bottom of Filter to Top of Gravel to Allow Water to Freely Flow From Filter; Also Verify that the Enclosure Fits Over Cranking Shaft at the Top of Filter; Downsize Mainline After Filter to a 1" Mainline	11/L3.1
Pipes				
	Schedule 40 PVC	Mainline Pipe	1 1/2 & 2 Inch Size; Schedule 80 Fittings Shall be Used for Mainline Components	5/L3.1
	Schedule 40 PVC	Lateral Line Pipe	See Plan for Pipe Sizes; Pipes Unmarked Shall be 1 Inch; Minimum Pipe Size Shall be 1 Inch for PVC Pipe	5/L3.1
Controller				
C	Hunter HCC-1600-PL	16 Station Base Indoor Controller (WaterSense EPA Approved Controller)	See Plan for Location of Controller; Coordinate Power Supply With Building Electrical Contractor	9/L3.1
Controller Accessories				
WS	Hunter WR-CLIK	Wireless Rain Shut-off Sensor	Install Irrigation Controller in Mechanical Room Adjacent to a Power Outlet; Install Rain Sensor Adjacent to Controller and Wire to Controller; Install Sensor on Roof in a Location Where an Adequate Moisture Reading can be Captured; Provide a Zone Map and Attach in Controller Door	12/L3.1
Sleeving				
	Schedule 40 PVC	Provide for Irr. Mainlines, Laterals, and Controller Wire Located under Concrete and Asphalt Paving at specified depths	Contractor shall Coordinate the Installation of Sleeving with the Installation of Concrete Flatwork and Asphalt Paving. All Sleeving is by the Landscape Contractor unless otherwise noted.	2/L3.1



VALVE SCHEDULE

VALVE #	VALVE SIZE	IRRIGATION TYPE	FLOW (GPM)	PSI	PSI @ POC	PRECIP. RATE
1	1"	Area for Drip Emitters	4.52	37.5	46.7	0.27 in/h
2	1"	Area for Drip Emitters	3.84	37.4	44.3	0.1 in/h
3	1"	Area for Drip Emitters	4.56	37.5	46.8	0.29 in/h
4	1"	Area for Drip Emitters	4.64	37.6	45.9	0.22 in/h
5	1"	Area for Drip Emitters	4.61	38.8	45.4	0.19 in/h
6	1"	Area for Drip Emitters	4.52	37.4	42.8	0.26 in/h
7	1"	Area for Drip Emitters	3.26	37.1	39.6	0.38 in/h
8	1"	Area for Drip Emitters	3.47	37.1	39.0	0.36 in/h
9	1"	Area for Drip Emitters	5.23	38.0	39.2	0.43 in/h
10	1"	Area for Drip Emitters	3.44	37.1	37.5	0.37 in/h
11	1"	Area for Drip Emitters	5.32	37.8	39.6	0.15 in/h
12	1"	Area for Drip Emitters	4.4	37.6	38.9	0.41 in/h

Scale: 1" = 20'

20' 0 20' 40'

Main Service Line and Other Irrigation Components Are Shown In Paved Or Hardscape Surfaced For Clarity Purposes ONLY! Install All Irrigation Components within Landscaped Areas.

Irrigation Notes

1. See Sheet L1.1-L1.2 for Plant Layout and Sheet L3.1 for Planting Details.
2. See Sheet L3.1 for Irrigation Details.

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State of Utah
Jared R. Monsicil
No. 7740438-5301
Professional Landscape Architect
09/15/2026

NO.	DESCRIPTION	DATE

CLIENT INFORMATION:
Harmons

CLIENT LOGO:
HARMONS

Irrigation Plan

Harmons Spanish Fork
2643 East 400 North
Spanish Fork, Utah, 84664

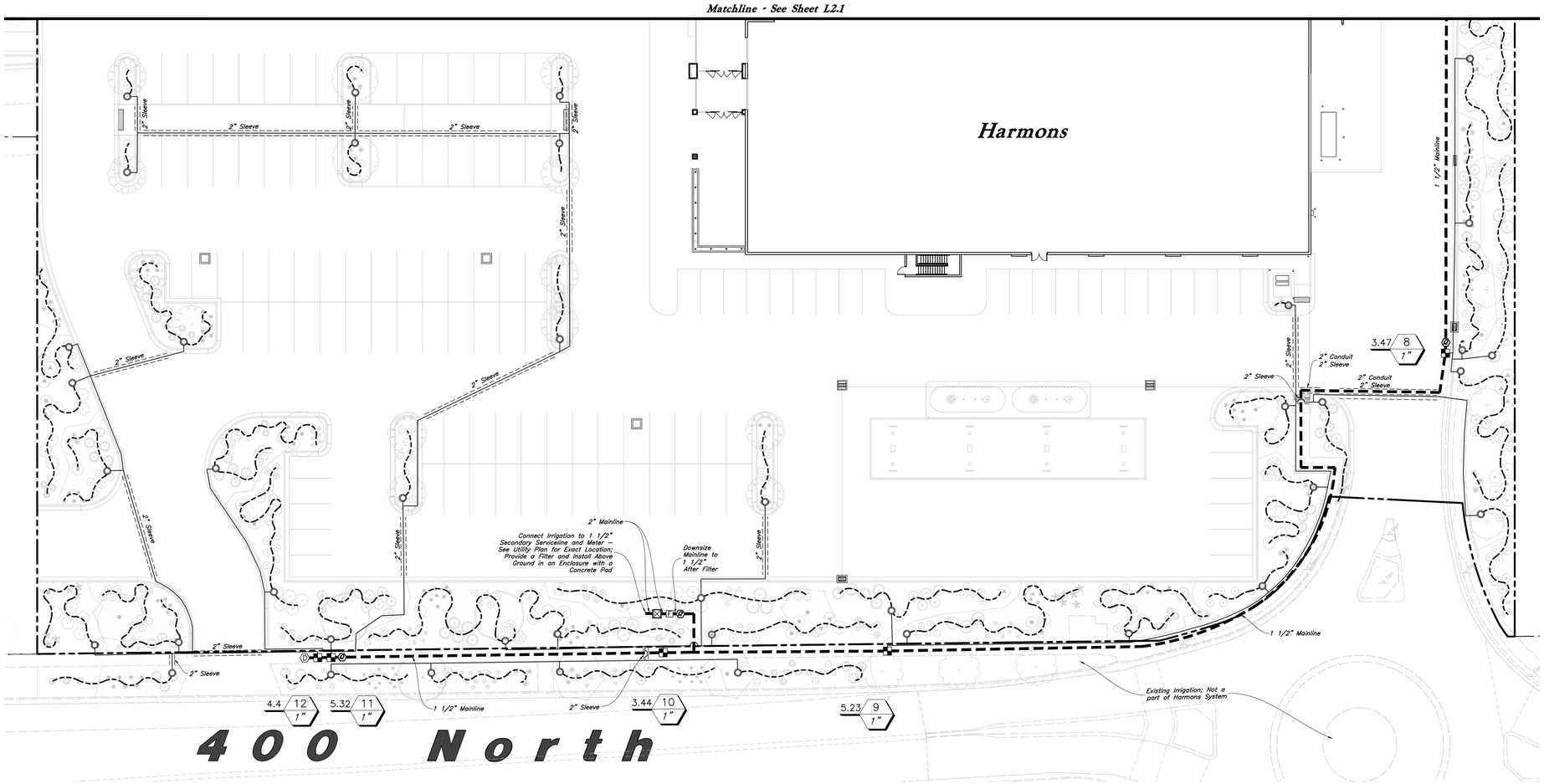
Project Information	
Designer:	JM/KF
PM:	SY
QCM:	XX
Final Review:	XX
23-133 IR	

14 Sep, 2026

SHEET NO.
L2.1

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Scale: 1" = 20'

20' 0 20' 40'

Main Service Line and Other Irrigation Components Are Shown In Paved Or Hardscape Surfaced For Clarity Purposes ONLY! Install All Irrigation Components within Landscaped Areas.

Irrigation Notes

1. See Sheet L1.1–L1.2 for Plant Layout and Sheet L3.1 for Planting Details.
2. See Sheet L3.1 for Irrigation Details.

General Irrigation Notes:

1. Prior to construction, the contractor shall be responsible for locating all underground utilities and shall avoid damage to all utilities during the course of the work. It shall be the responsibility of the contractor to protect all utility lines during the construction period, and repair any and all damage to utilities, structures, site appurtenances, etc. which occurs as a result of the landscape construction.
2. The irrigation contractor shall examine the site conditions under which the work is to be performed and notify the general contractor in writing of unsatisfactory conditions. Do not proceed until conditions have been corrected.
3. The contractor shall provide all materials, labor and equipment required for the proper completion of all irrigation work as specified and shown on the drawings.
4. See civil and architectural drawings for all structures, hardscape, grading, and drainage information.
5. Contractor safety and cleanup must meet OSHA standards at all times. All contractors must have adequate liability, personnel injury and property damage insurance. Clean-up must be performed daily, and all hardscape areas must be washed free of dirt and mud on final cleanup. Construction must occur in a timely manner.
6. The Owner/Landscape Architect has the right to reject any and all irrigation material not conforming to the plans and specifications.
7. The contractor shall install all irrigation material per plan, notes and details.
8. Irrigation system components must be premium quality only and installed to manufactures requirements and specifications. The contractor is responsible for checking state and local laws for all specified materials and workmanship. Substitutions must be approved by landscape architect. Provide owner and maintenance personnel with instruction manual and all products data to operate, check, winterize, repair, and adjust system.
9. Irrigation installer shall repair or replace irrigation components and accessories that fail in materials and workmanship within specified warranty period. The warranty shall be 12 months and shall begin with final project acceptance.
10. Irrigation system check must be done before the system is backfilled. Irrigation mainline and each control valve section must be flushed and pressure checked. Assure the complete system has no documented problems and full head to head coverage with adequate pressure for system operation. Adjust system to avoid spray on building, hardscape, and adjacent property. Any problems or plan discrepancies must be reported to the landscape architect.
11. Irrigation laterals must be schedule 40 P.V.C. with schedule 40 fittings. one (1) inch minimum size. Solvent weld all joints as per manufactures specifications for measured static p.s.i. Teflon tape all threaded fittings. The minimum depth of lateral lines shall be twelve (12) inches. Adapt system to manual compression air blowout.
12. Irrigation mainline that are 2" and smaller mainlines shall be schedule 40 PVC pipe with schedule 80 fittings. Solvent weld all joints as per manufactures specifications for measured static pressure. Use teflon tape on all threaded joints. Line depth must be eighteen (18) inches minimum.
13. Install dielectric fittings whenever dissimilar metals are joined.
14. Design locations are approximate. Make minor adjustments necessary to avoid plantings and obstructions such as signs and light standards. Maintain 100(%) percent irrigation coverage of areas indicated.
15. Controller valves to be grouped together wherever possible. Install valve boxes with long side perpendicular to walk, curb, lawn, building or landscape features. Valve boxes to conform with finish grades.
16. Control valve wire shall be #18 multi-strand wire. Provide (2) two spare wires that runs the length of the mainline and to the controller. All wiring shall be UF-UL rated. All connections shall be made with water tight connectors (DBR/Y or equivalent) and contained in control valve boxes. Provide 36" extra wire length at each remote control valve in valve box. Install control wiring with main service line where possible. Provide slack in control wires at all changes in direction.
17. Control valve size, type, quantity, and location to be approved by landscape architect. install in heavy duty plastic vandal proof box. Size boxes according to valve type and size for ease of maintenance and repair. Install one (1) cubic feet of pea gravel for sump in base of boxes. Boxes to be Carson Brooks or equal.
18. Quick couplers shall be a Rain Bird 44-NP with a 1 inch Lasco untized swing joint assembly. Support with rebar in each retainer lug. Install where shown on the plans.
19. Irrigation system backfill must occur only after system check is completed as specified. Use only rock free clean fill around pipes, valves, drains, or any irrigation system components. Water settle all trenches and excavations.
20. All irrigation pipe running through walls, under sidewalk, asphalt, or other hard surface shall be sleeved prior to paving. It is the irrigation contractors responsibility to coordinate sleeving with concrete and pavement contractors. Sleeves will be schedule 40 P.V.C. The depth for mainline sleeves shall be twenty-eight (28) inches minimum. Depth for lateral sleeves shall be sixteen (16) inches minimum. Sleeves shall be a minimum of two sizes larger than the pipe to be sleeved. All valve wiring shall be contained in separate sleeving.
21. Plans are diagrammatic and approximate due to scale. where possible, all piping is to be installed within the planting areas. No tees, ells, or changes in direction shall occur under hardscape.
22. It is the contractors responsibility to verify all quantities based upon the plan prior to completion of a construction cost estimate.
23. Drip system piping shall consist of a rigid schedule 40 PVC pipe distribution system connecting drip irrigated planter areas. Poly tubing or drip line shall be run off the rigid PVC in each planting area or island with a PVC to poly tubing adapter. No poly tubing shall run under pavement.
24. Electrical power source at the controller location shall be provided by electrical contractor. Contractor shall verify location of controller prior to installation with owner.
25. Provide and install all manufacturer's recommended surge and lighting protection equipment on all controllers.
26. All lines shall slope to manual drains (see details). If field conditions necessitate additional drains, these drains shall be installed for complete drainage of the entire system. Provide a gravel sump under each drain. All drains shall be a minimum of 6" below grade.
27. Upon completion and approval of irrigation system, irrigation contractor to provide the owner with one set of drawings indicating actual location of piping, valves, wiring, and zones.
28. An irrigation zone map shall be provided in a protective jacket and be kept with the main irrigation controller. The map shall show all approved irrigation and include all zone valve locations.
29. It shall be the responsibility of the irrigation contractor to demonstrate to the Owner the proper winterization and start-up procedures for the entire system prior to final payment.

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Licensed Professional Landscape Architect of Utah
Jared R. Monsicil
No. 7742426-5301
09/15/2026

REV | DESCRIPTION | DATE

CLIENT INFORMATION:
Harmons

CLIENT LOGO:
HARMONS

Irrigation Plan

Harmons Spanish Fork

2643 East 400 North
Spanish Fork, Utah, 84664

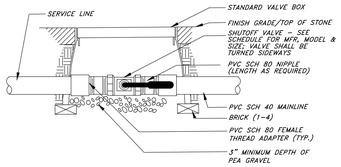
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PM:	SY
QCM:	XX
Final Review:	XX

23-133 IR

14 Sep, 2026

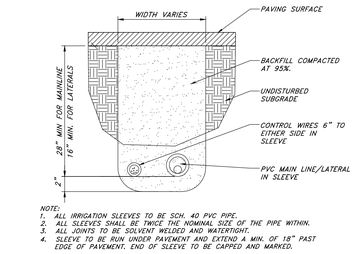
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L2.2

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1 SHUTOFF VALVE

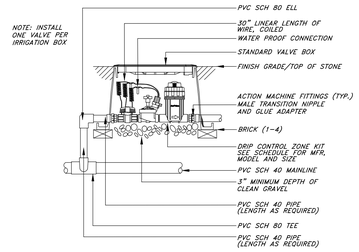
NOT TO SCALE



NOTE:
1. ALL IRRIGATION SLEEVES TO BE SCH. 40 PVC PIPE.
2. ALL SLEEVES SHALL BE TWICE THE NOMINAL SIZE OF THE PIPE WITHIN.
3. ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT.
4. SLEEVE TO BE RUN UNDER PAVEMENT AND EXTEND A MIN. OF 18" PAST EDGE OF PAVEMENT. END OF SLEEVE TO BE CAPPED AND MARKED.

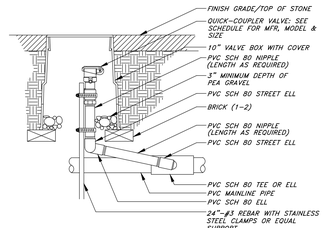
2 PIPE SLEEVING

NOT TO SCALE



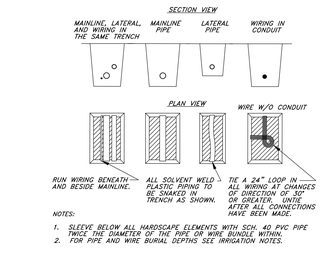
3 DRIP CONTROL VALVE

NOT TO SCALE



4 QUICK COUPLING VALVE

NOT TO SCALE



NOTES:
1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH SCH. 40 PVC PIPE TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.
2. FOR PIPE AND WIRE BURIAL DEPTHS SEE IRRIGATION NOTES.

5 PIPE & WIRE TRENCHING

NOT TO SCALE

6 COMPRESSION FLUSH CAP

NOT TO SCALE

7 MANUAL DRAIN VALVE

NOT TO SCALE

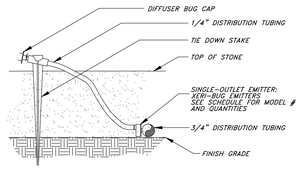
NOTE:
1. USE RAIN BIRD XERMAN TOOL MODEL XM-TOOL TO INSERT EMITTER DIRECTLY INTO 3/4" DISTRIBUTION TUBING.

8 PVC TO POLY PIPE CONNECTION

NOT TO SCALE

9 IRRIGATION CONTROLLER - INDOOR WALL MOUNT

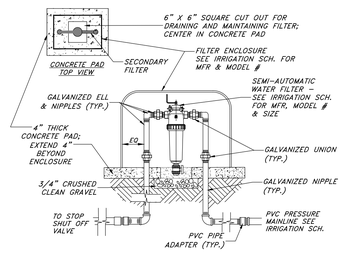
NOT TO SCALE



NOTE:
1. USE RAIN BIRD XERMAN TOOL MODEL XM-TOOL TO INSERT EMITTER DIRECTLY INTO 3/4" DISTRIBUTION TUBING.
2. INSTALL EMITTERS ON OPPOSING SIDES OF ROOTBALL. EMITTERS ARE TO BE INSTALLED TO CLEAR SURFACE BY A MIN. OF 1" AND AND A MAX. OF 2" FLUSH ALL INCS THOROUGHLY, INCLUDING 1/4" DISTRIBUTION TUBING PRIOR TO EMITTER INSTALLATION. IF PLANTING IN A 4:1 SLOPE OR GREATER, INSTALL BOTH EMITTERS ON UPHILL SIDE OF ROOTBALL.

10 EMITTER INTO DISTRIBUTION TUBE

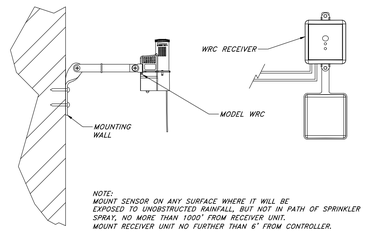
NOT TO SCALE



NOTE:
1. DIAMETER OF FITTINGS, NIPPLES AND RISERS SHALL BE EQUAL DIAMETER OF SPECIFIED FILTER UNLESS NOTED OTHERWISE.
2. ENCLOSURE SHALL BE BOLTED DOWN ON EACH CORNER.

11 SECONDARY SEMI-AUTOMATIC FILTER (SMITH'S)

NOT TO SCALE



NOTE:
MOUNT SENSOR ON ANY SURFACE WHERE IT WILL BE EXPOSED TO UNOBSTRUCTED RAINFALL, BUT NOT IN PATH OF SPRINKLER SPRAY. NO MORE THAN 1000' FROM RECEIVER UNIT.
MOUNT RECEIVER UNIT NO FURTHER THAN 6' FROM CONTROLLER.

12 WIRELESS RAIN SENSOR

NOT TO SCALE

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Licensed Professional Landscape Architect
Jared R. Monsicil
No. 7142438-5301
09/15/2026

NO.	DESCRIPTION	DATE

CLIENT INFORMATION:

Harmons

CLIENT LOGO:

HARMONS

Irrigation Details

Harmons Spanish Fork

2643 East 400 North
Spanish Fork, Utah, 84664

Project Information	
Designer:	JM/KF
PM:	SY
QCM:	XX
Final Review:	XX

23-133 IR

14 Sep, 2026

SHEET NO.

L3.1

\23-133 Harmons Spanish Fork\dwgs\23-133 IR.dwg, 9/15/2026 12:07:24 PM, 1:1

ROOF LEGEND

NOTE:

1. PROVIDE AND INSTALL 60 MIL. SINGLE PLY (TPO) MEMBRANE ROOFING SYSTEM OVER 7" POLY ISO RIGID FOAM INSULATION (R-40 MIN.) PER DETAILS AND SPECS (2 LAYER 3.5" WITH STAGGERED JOINTS). PROVIDE ALL FLASHING AND ACCESSORIES. CONTRACTOR TO PROVIDE TAPERED INSULATION AND CRICKETING AS INDICATED ON PLANS AND AS NECESSARY TO ACCOMMODATE PROPER DRAINAGE THROUGHOUT THE ROOF AND TO ROOF DRAIN LOCATIONS. (¼" PER FOOT MINIMUM SLOPE REQUIRED EVERYWHERE).
2. CONTRACTOR RESPONSIBLE TO PATCH, REPAIR, SEAL AND FLASH ALL ROOF PENETRATIONS, INCLUDING BUT NOT LIMITED TO ELECTRICAL, PLUMBING, MECHANICAL, REFRIGERATION STRUCTURAL AND SIGNAGE PENETRATIONS.
3. ALL ROOF TOP EQUIPMENT TO BE A MINIMUM OF 10'-0" FROM ANY ROOF EDGE.
4. REFER TO DETAILS 7, 14, 15 AND 16 ON SHEET A0.2 FOR TYPICAL FLASHING DETAILS..
5. MAINTAIN 1/4" PER FOOT MINIMUM SLOPE AT FLEXIBLE MEMBRANE ROOF.
6. ROOF COLOR: WHITE

RD/ORD: ROOF DRAIN AND SECONDARY ROOF DRAIN. RE: 13/A0.2

CRICKET OF TAPERED RIGID INSULATION CONSTRUCT W/ MIN. POSITIVE SLOPE OF 1/2" PER FT. AND TO DIMENSIONS INDICATED, AT SMALLER CRICKETS WHERE DIMENSIONS ARE NOT INDICATED MAKE WIDTH EQUAL TO LENGTH. PROVIDE ON UPSIDE SLOPE OF ALL EQUIPMENT CURBS.

RTU: ROOF TOP UNIT, SEE DETAILS 16/A0.2 FOR SITE BUILT PLATFORMS. REFER TO MECHANICAL DRAWINGS FOR PREFABRICATED CURBS. PROVIDE STEEL FRAME @ OPENINGS AND UNDER CURBS, SEE STRUCTURAL DRAWINGS.

FLUE PENETRATION SEE DET. 15/A0.2

EF: EXHAUST FAN SEE DET. 16/A0.2. PROVIDE CURB FOR EQUIPMENT AT ALL EXHAUST FAN LOCATIONS.

EC: AIR COOLED CONDENSING UNIT, SEE DETAILS 16/A0.2 FOR SITE BUILT PLATFORMS. REFER TO MECHANICAL DRAWINGS FOR PREFABRICATED CURBS. PROVIDE STEEL FRAME @ OPENINGS AND UNDER CURBS, SEE STRUCTURAL DRAWINGS

MAU: MAKE UP AIR UNIT.SEE DETAILS 16/A0.2 FOR SITE BUILT PLATFORMS. REFER TO MECHANICAL DRAWINGS FOR PREFABRICATED CURBS. PROVIDE STEEL FRAME @ OPENINGS AND UNDER CURBS, SEE STRUCTURAL DRAWINGS

CONDENSER: REFRIGERATION CONDENSING UNIT SITE BUILT CURB. RE: 7/A0.2. ROOFING CONTRACTOR TO PROVIDE FLASHING. ROOF OPENINGS, ELECTRICAL, STEEL SUPPORT BY G.C. FLASHING BY ROOFING CONTRACTOR. REFRIGERATION CONTRACTOR TO SET UNIT.

30" X 36" ROOF HATCH. BILCO OR APPROVED EQUAL. PROVIDE OSHA COMPLIANT SELF CLOSING HATCH, GUARD RAILS AT HATCH OPENING AND EXTENSION SUPPORTS

5'-0" X 5'-0" SKYLIGHT, RE: 12/A0.2

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KRISTEN IRELAND VOROS No. 7557079-0301 STATE OF UTAH LICENSED ARCHITECT

HARMONS SPANISH FORK

2643 East 400 North
Spanish Fork, Utah

MARK	DATE	DESCRIPTION

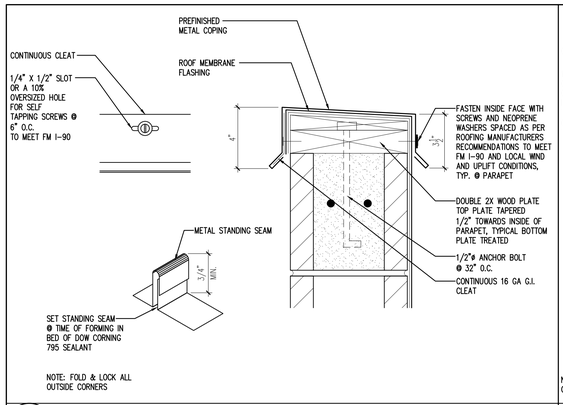
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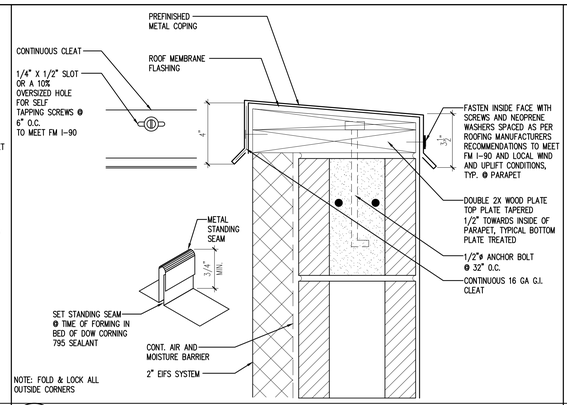
ROOF PLAN

A0.1

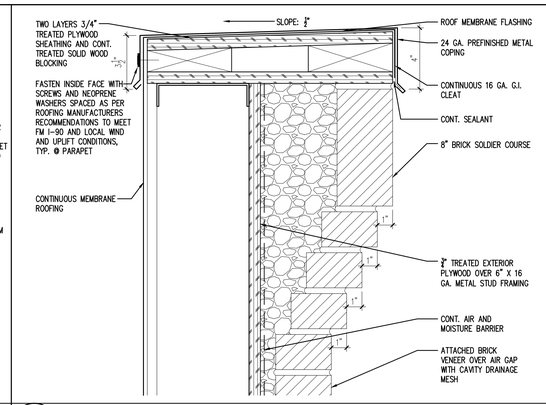
ROOF PLAN
SCALE: 3/32" = 1'-0"



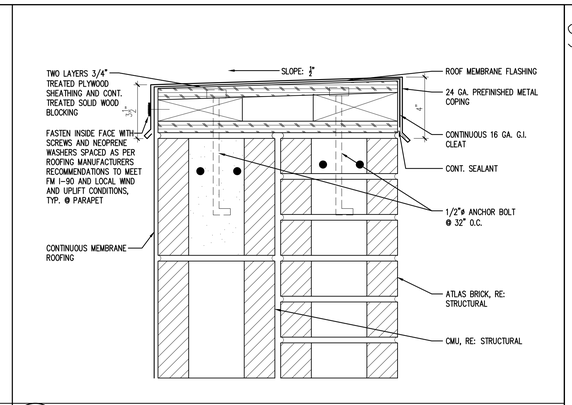
1 CMU PARAPET DETAIL
SCALE: 3" = 1'-0"



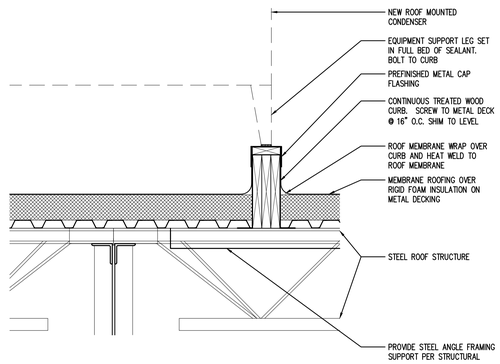
2 CMU PARAPET DETAIL
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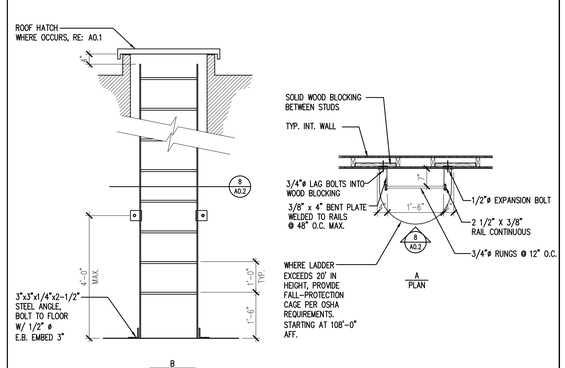
3 BRICK PARAPET DETAIL
SCALE: 3" = 1'-0"



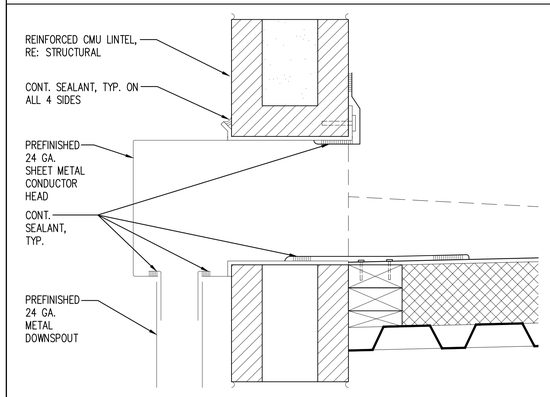
4 PIER PARAPET DETAIL
SCALE: 3" = 1'-0"



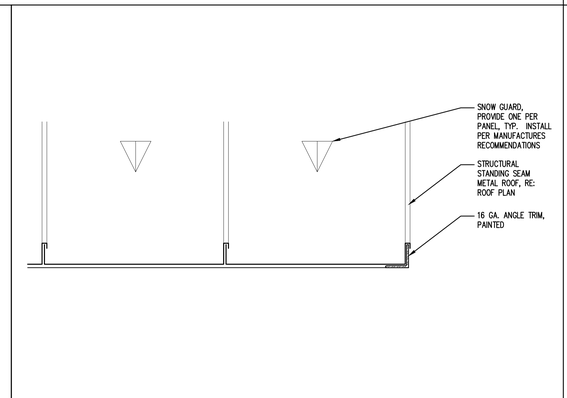
7 REFRIGERATION UNIT CURB DETAIL
SCALE: 1" = 1'-0"



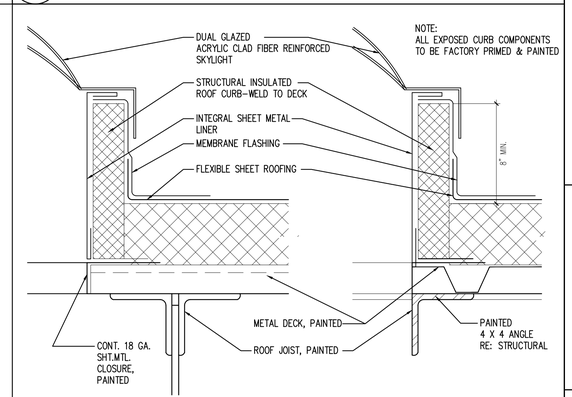
8 ROOF ACCESS LADDER
SCALE: 1/2" = 1'-0"



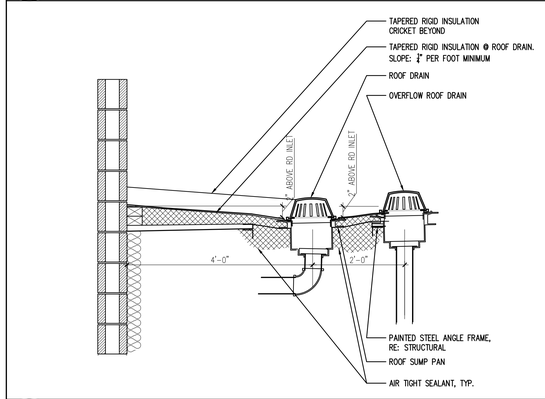
9 CONDUCTOR HEAD AND DOWNSPOUT
SCALE: 3" = 1'-0"



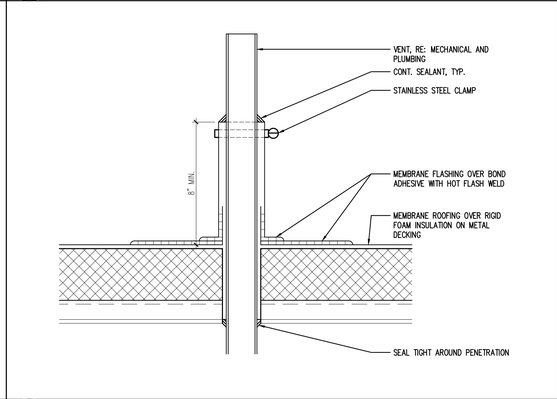
10 STANDING SEAM METAL ROOF EDGE DETAIL
SCALE: 3" = 1'-0"



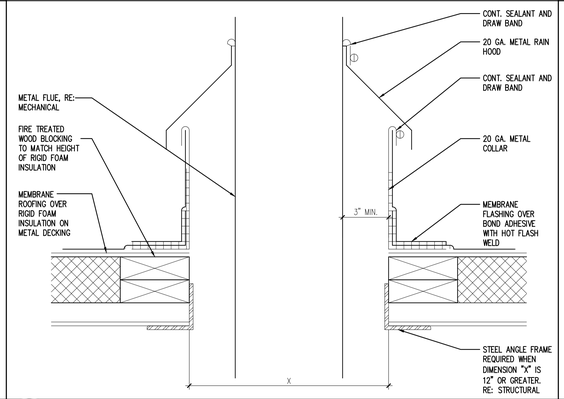
12 SKYLIGHT CURB DETAIL @ SALES FLOOR
SCALE: 3" = 1'-0"



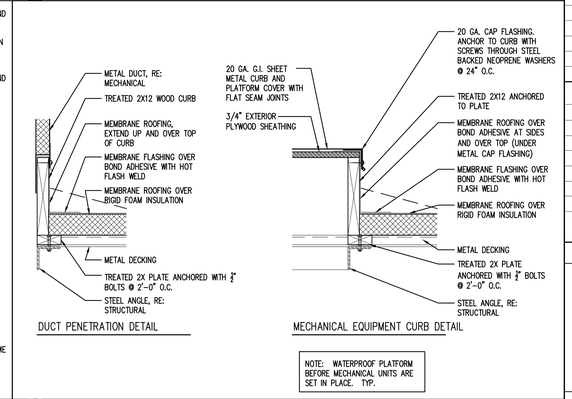
13 ROOF DRAIN & OVERFLOW RD DETAIL
SCALE: 3/4" = 1'-0"



14 TYPICAL VENT PIPE FLASHING DETAIL
SCALE: 3" = 1'-0"



15 TYPICAL FLUE FLASHING DETAIL
SCALE: 3" = 1'-0"



16 EQUIPMENT CURB
SCALE: 1-1/2" = 1'-0"

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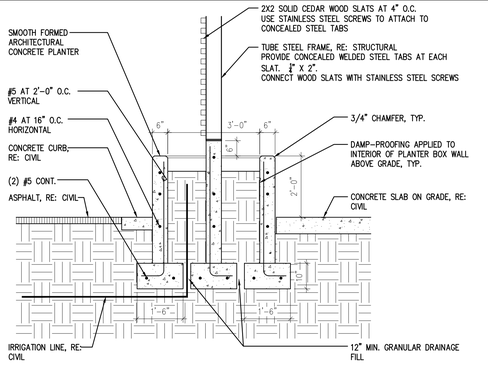
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DESIGNED BY:
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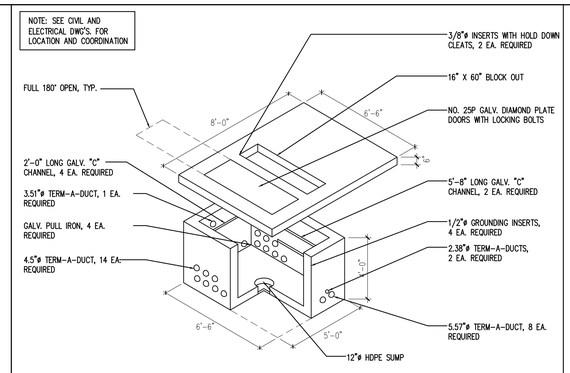
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ROOF DETAILS

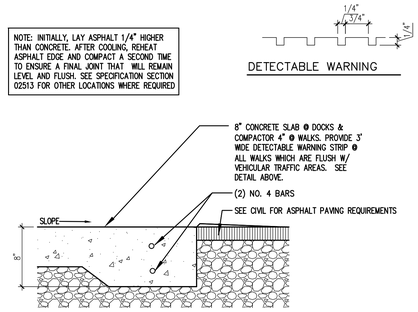
A0.2



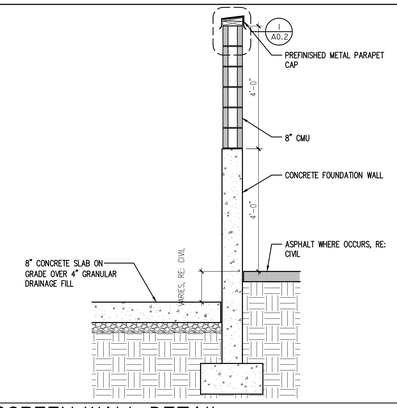
1 CONCRETE PLANTER
SCALE: 1/2" = 1'-0"



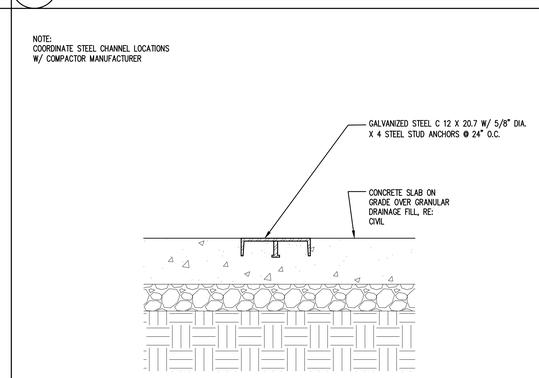
2 3-PHASE TRANSFORMER PAD VAULT
SCALE: NTS



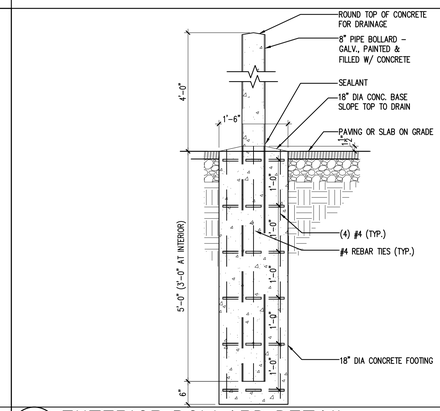
4 PAVING DETAIL
SCALE: 1" = 1'-0"



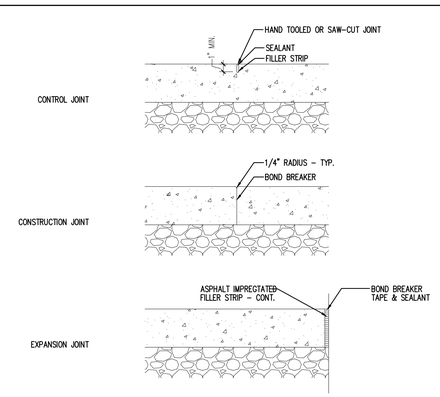
5 SCREEN WALL DETAIL
SCALE: 1/2" = 1'-0"



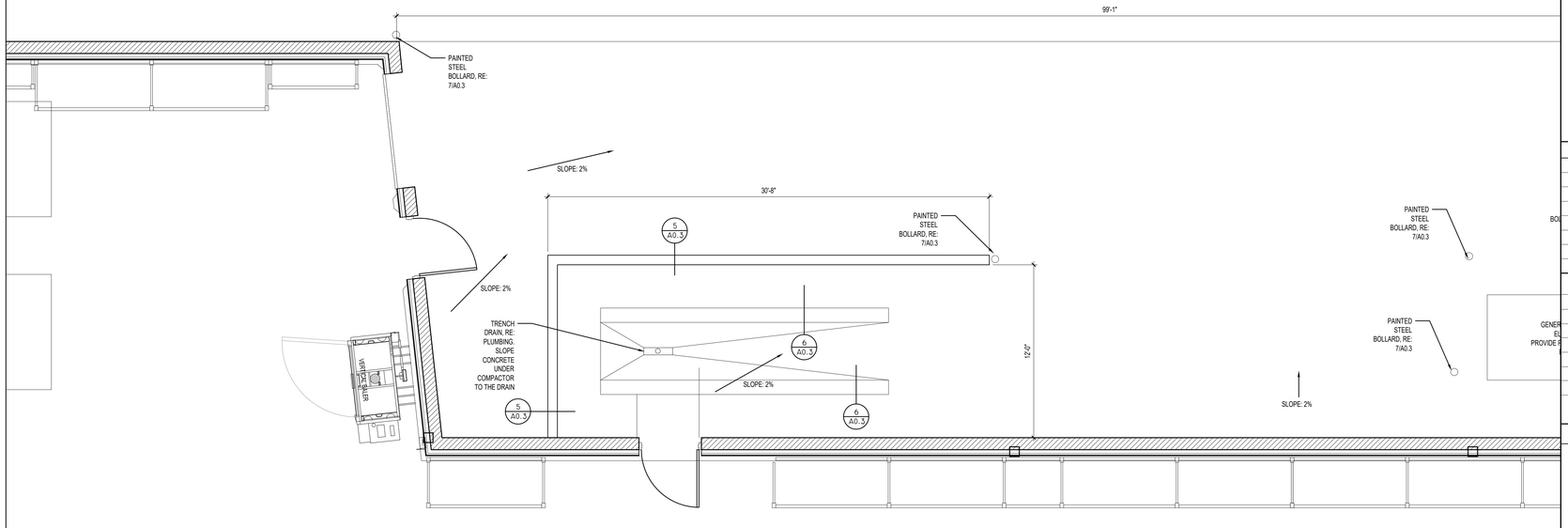
6 COMPACTOR SKID DETAIL
SCALE: 1-1/2" = 1'-0"



7 EXTERIOR BOLLARD DETAIL
SCALE: 3/4" = 1'-0"



8 CONCRETE JOINT DETAIL
SCALE: 1-1/2" = 1'-0"



4/B — PAINTED STEEL

14 COMPACTOR PLAN
SCALE: 1/4" = 1'-0"

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SPANISH FORK

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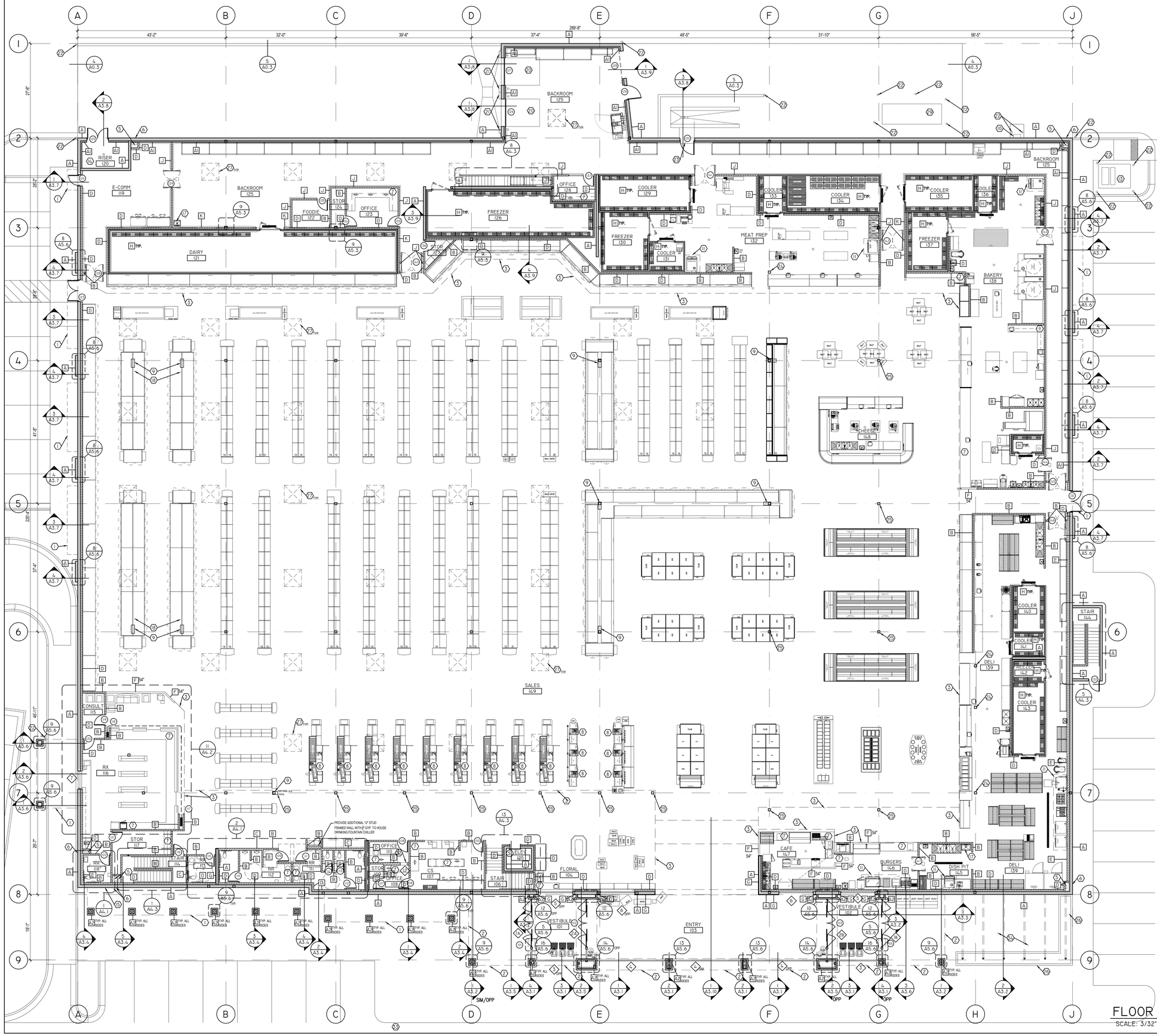
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DESIGNED BY:
DWG TYPE:
ARCHITECTURAL PHASE: BID SET

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SITE DETAILS

A0.3



KEYED NOTES

1. LINE OF CANOPY/TRELLIS ABOVE
2. LINE OF SOFFIT ABOVE
3. LINE OF VALANCE ABOVE SEE REFLECTED CEILING PLAN
4. ROOF ACCESS LADDER, RE: 8/A0.2
5. ROOF DRAIN AND OVERFLOW ROOF DRAIN PIPES, RE: PLUMBING
6. DOWNSPOUT NOZZLE, RE: PLUMBING AND EXTERIOR ELEVATIONS. 18" ABOVE FINISH GRADE, MAX.
7. MILLWORK, OWNER PROVIDED AND INSTALLED. G.C. TO PROVIDE BLOCKING AT BASE CABINETS AND UPPERS LOCATIONS.
8. OWNER PROVIDED CHECKSTANDS. G.C. TO INSTALL, RE: ELECTRICAL
9. FALSE COLUMN FOR REFRIGERATION & PLUMBING LINES, SEE DETAIL 8/A5.3 COORDINATE WITH REFRIGERATION & PLUMBING DRAWINGS
10. GAS METER, RE: PLUMBING AND CIVIL. PROVIDE 6" CONCRETE PAD AS REQUIRED TO MEET GAS COMPANY REQUIREMENTS
11. HOOD ABOVE, RE: MECHANICAL
12. ELECTRICAL PANEL, RE: ELECTRICAL
13. ELECTRICAL TRANSFORMER PAD, RE: 2/A0.3 AND ELECTRICAL
14. FIRE RISER, RE: SPECS.
15. FIRE DEPARTMENT CONNECTION
16. PROVIDE 3/4" PLYWOOD TELEPHONE BOARD THIS LOCATION, FULL HEIGHT.
17. MOP SINK, RE: PLUMBING. PROVIDE WALL FINISH AS INDICATED IN FINISH SCHEDULE OR FINISH PLAN. IF NOT NOTED, PROVIDE 4' X 4' FRP SURROUND. 4" TALL
18. HOT WATER HOSE BIB, RE: PLUMBING
19. WATER HEATER, RE: PLUMBING
20. DOCK LEVELER, RE: SPECS.
21. DOCK BUMPER
22. 8" CONCRETE FILLED PAINTED STEEL PIPE BOLLARDS, SEE DETAIL 7/A0.3
23. 18 GA. STAINLESS STEEL WALL PANELING OVER ¾" TREATED PLYWOOD SHEATHING BELOW OPENING. EXTEND 12" OF EACH SIDE OF OPENING AND EXTEND TO 8' AFF
24. FULL HEIGHT 20 GA. STAINLESS STEEL COLUMN WRAP
25. 20 GA. STAINLESS STEEL COLUMN WRAP TO 48"
26. CONCRETE PLANTER, RE: 1/A0.3. LANDSCAPING AND IRRIGATION, RE: CIVIL
27. SKYLIGHT ABOVE, RE: ROOF PLAN
28. RO WATER MACHINE, RE: PLUMBING
29. GENERATOR, RE: ELECTRICAL AND MECHANICAL
30. REFRIGERATION SYSTEM, BY OTHERS. G.C. TO PROVIDE MEP, RE: REFRIGERATION, MECHANICAL AND ELECTRICAL.
31. ELEVATOR, RE: ELECTRICAL AND SPECS
32. PASS THROUGH BANK DEPOSITORY, RE: 13/A4.2
33. FLAGPOLE, SEE CIVIL FOR EXACT LOCATION. RE: SPECS
34. WOOD AND STEEL TRELLIS. PROVIDE PAINTED STEEL FRAME, RE: STRUCTURAL. PROVIDE SOLID WOOD SLATS, RE: 2/A3.2

WALL TYPE SCHEDULE

NOTE: REFER TO A2.1 FOR EXTERIOR FINISH AND A6.1 FOR INTERIOR FINISH. ALL WOOD EXTERIOR WALL ASSEMBLIES INCLUDING BUT NOT LIMITED TO RIM BOARDS, SHEATHING AND BLOCKING ARE REQUIRED TO BE FIRE RETARDANT TREATED PER IBC 602.3

- A — REINFORCED CMU WALL, RE: STRUCTURAL AND EXTERIOR ELEVATIONS PROVIDE PERLITE LOOSE FILL MASONRY INSULATION AT EXTERIOR WALLS. PROVIDE 3" HUNTER Xci 286 POLYISOCYANURATE INSULATION, R-19, DIRECTLY ATTACHED TO INTERIOR FACE OF CMU. INSTALL WITH EXPOSED APPROVED FACING TOWARD INTERIOR IN ACCORDANCE WITH MANUFACTURER'S NFPA 286 TESTED ASSEMBLY AND INSTALLATION REQUIREMENTS. CMU TO PROVIDE 2-HOUR RATING REQUIRED AT ALL EXTERIOR WALLS. ASSEMBLY OF CMU rating per, IBC 721.1(2) Item 3.
- A1 — 5/8" TYPE-X GYP. BOARD ON 1-1/2" X 18 GA. METAL HAT CHANNELS AT 24" O.C. CONTINUE GYP. BD. & CHANNELS TO B.O. ROOF DECK ABOVE. 3/4" CDX PLYWOOD TO 8'-0" HIGH.
- A2 — TREATED WOOD SHEATHING ON STRUCTURAL METAL STUD FRAMING, RE: STRUCTURAL
- B — 3 5/8" METAL STUDS @ 16" O.C. WITH 5/8" TYPE-X GYP. BOARD ON BOTH SIDES, TO 6" ABOVE CEILING. BRACE TO STRUCTURE ABOVE @ 4'-0" O.C. (UNLESS NOTED OTHERWISE) IF NO CEILING THEN CONTINUE GYP. BD. & STUDS TO B.O. ROOF DECK ABOVE. USE DENSSHIELD IN WET AREAS. PROVIDE FULL SOUND BATT AS NOTED IN SCOPE OF WORK NOTE #1.
- C — SAME AS WALL TYPE "B" WITH 6" METAL STUDS
- D — 3 5/8" METAL STUDS @ 16" O.C. WITH 5/8" TYPE-X GYP. BOARD ON ONE SIDE, TO 6" ABOVE CEILING. BRACE TO STRUCTURE ABOVE @ 4'-0" O.C. (UNLESS NOTED OTHERWISE) IF NO CEILING THEN CONTINUE GYP. BD. & STUDS TO B.O. ROOF DECK ABOVE. USE DENSSHIELD IN WET AREAS. PROVIDE FULL SOUND BATT AS NOTED IN SCOPE OF WORK NOTE #1.
- E — SAME AS WALL TYPE "D" WITH 6" METAL STUDS
- F — 3 5/8" METAL STUDS @ 16" O.C. WITH 5/8" GYP. BOARD BOTH SIDES, TO HEIGHT NOTED, BRACE WITH T.S. 3" X 3" X 1/4", SEE DETAIL 3/A5.2, PROVIDE T.S. POSTS @ 6'-0" O.C. OR AS SHOWN ON PLAN. USE DENSSHIELD IN WET AREAS
- G — 5/8" TYPE-X GYP. BOARD ON 7/8" METAL FURRING CHANNELS TO 6" ABOVE CEILING. IF NO CEILING THEN CONTINUE GYP. BD. & FURRING CHANNELS TO B.O. ROOF DECK ABOVE. USE DENSSHIELD IN WET AREAS.
- H — PREFABRICATED FREEZER/COOLER BOX WALLS. PROVIDED BY OWNER, INSTALLED BY OWNER
- J — 3 5/8" METAL STUDS @ 16" O.C. WITH 5/8" TYPE-X GYP. BOARD ON ONE SIDE. 3/4" CDX PLYWOOD ON THE BACKROOM SIDE TO 8'-0" HIGH WITH 5/8" TYPE-X GYP. BOARD ABOVE TO BOTTOM OF ROOF DECK ABOVE. USE DENSSHIELD IN WET AREAS. USE SOUND BATT IN RESTROOM/MECHANICAL/ELECTRICAL ROOM WALLS
- J1 — SAME AS WALL TYPE "J" WITH 6" METAL STUDS
- K — 3 5/8" METAL STUDS @ 16" O.C. WITH 3/4" CDX PLYWOOD TO 8'-0" HIGH WITH 5/8" TYPE-X GYP. BOARD ABOVE TO BOTTOM OF ROOF DECK ABOVE. ON ONE SIDE. USE SOUND BATT IN RESTROOM/MECHANICAL/ELECTRICAL ROOM WALLS
- K1 — SAME AS WALL TYPE "K" WITH 6" METAL STUDS
- L — 3 5/8" METAL STUDS @ 16" O.C. WITH 5/8" GYP. BOARD BOTH SIDES, TO 24" ABOVE FINISH FLOOR. BRACE WITH 1 1/2" X 1/2" BAR STEEL. PROVIDE METAL RAILING ABOVE AS INDICATED IN DETAIL 14/A4.4.

ALL PREP AREAS AND RESTROOMS SCHEDULED WITH FURRED OR FRAMED WALLS SHALL BE SHEATHED WITH 1/2" DENSSHIELD SHEATHING WHERE TILE/FRP/STAINLESS STEEL IS SCHEDULED. PREP/SKIM COAT/PRIME SUBSTRATE AS REQUIRED TO ACCOMMODATE TILE/FRP/STAINLESS STEEL AS RECOMMENDED BY MNFR TO ACCOMMODATE APPROPRIATE ADHESION TO SUBSTRATE.

SCOPE OF WORK NOTES

1. PROVIDE FULL THERMAL BATT INSULATION AND VAPOR BARRIER AT ALL EXTERIOR WALLS. PROVIDE FULL SOUND BATT INSULATION TO B.O. DECK AT ALL RESTROOMS, JANITOR, CONFERENCE ROOMS, THE COOKING SCHOOL, EQUIPMENT ROOMS, IT ROOMS, REFRIGERATION ROOMS, ELECTRICAL ROOMS AND MECHANICAL/PLUMBING ROOMS WALLS.
2. ALL GYP. IS TYPE "X" U.N.O.
3. PROVIDE ACOUSTICAL JOINT SEALANTS AT WALL TO WALL INTERSECTIONS, WALL TO FLOOR INTERSECTIONS AND ALL PENETRATIONS IN WALL TYPES SHOWN WITH ACOUSTICAL BATT INSULATION.
4. PROVIDE SEPARATION BARRIER BETWEEN ALL DISSIMILAR METALS, TYP.
5. REFER TO EXTERIOR ELEVATIONS FOR EXTERIOR FINISH MATERIAL SPECIFICATIONS. REFER TO INTERIOR ELEVATIONS AND INTERIOR FINISH SCHEDULE FOR INTERIOR FINISH MATERIAL SPECIFICATIONS.
6. PROVIDE METAL STUD DEFLECTION TRACK AT ALL NON-LOAD BEARING WALLS THAT EXTEND TO B.O. OF ROOF STRUCTURE OR ROOF DECK, RE: STRUCTURAL AND 6/A7.2.
7. REFER TO A1.3, A1.3A AND A1.3B FOR OWNER PROVIDED, CONTRACTOR INSTALLED ITEMS.
8. CAULK ALL EQUIPMENT AND FIXTURES AS REQUIRED IN FOOD PREP AREAS.
9. ALL EXPOSED STEEL STRUCTURE INCLUDING BUT NOT LIMITED TO ROOF DECK, FRAMING, COLUMNS, BEAMS, JOISTS AND PURLINS, BOTH INTERIOR AND EXTERIOR IS TO BE PAINTED. RE: SPECS.
10. G.C. TO PROVIDE GALVANIZED SHEET METAL CLOSURE STRIPS TO MATCH WALK-IN BOX FINISH BETWEEN WALK-IN BOX AND ADJACENT WALLS, MATCH FULL HEIGHT OF THE BOX, TYPICAL AT ALL WALK-IN BOX TO WALL CONDITIONS, RE: 4/A5.1
11. PROVIDE 20 GA. STAINLESS STEEL CLOSURE STRIPS TO CLOSE REFRIGERATED CASES TO ADJACENT WALLS AND TO CLOSE EQUIPMENT TO ADJACENT WALLS, CONTINUOUS FROM FLOOR TO SOFFIT, TYP.
12. WRAP END OF WALLS AND EXPOSED CORNERS WITH 20 GA. STAINLESS STEEL TO 48" AFF. (FULL HEIGHT AT WALLS IN DELI, BAKERY, PRODUCE, MEAT AND SEAFOOD DEPARTMENTS)
13. PROVIDE 20 GA. STAINLESS STEEL CLOSURES FROM TOP OF CASE TO TOP OF LOW WALL WHERE CASE SITS AGAINST A LOW WALL, TYP.
14. PROVIDE AND INSTALL FIRE EXTINGUISHERS PER THE FIRE MARSHAL'S DIRECTION. SEE SPECS AND 13/A4.1 FOR MOUNTING STANDARDS.
15. ALL PENETRATIONS AND JOINTS IN THE CONT INSULATION SERVING AS THE AIR BARRIER SHALL COMPLY WITH IECC C402.5.1.1.

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No. 7557079-0301
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HARMONS SPANISH FORK

2643 East 400 North
Spanish Fork, Utah

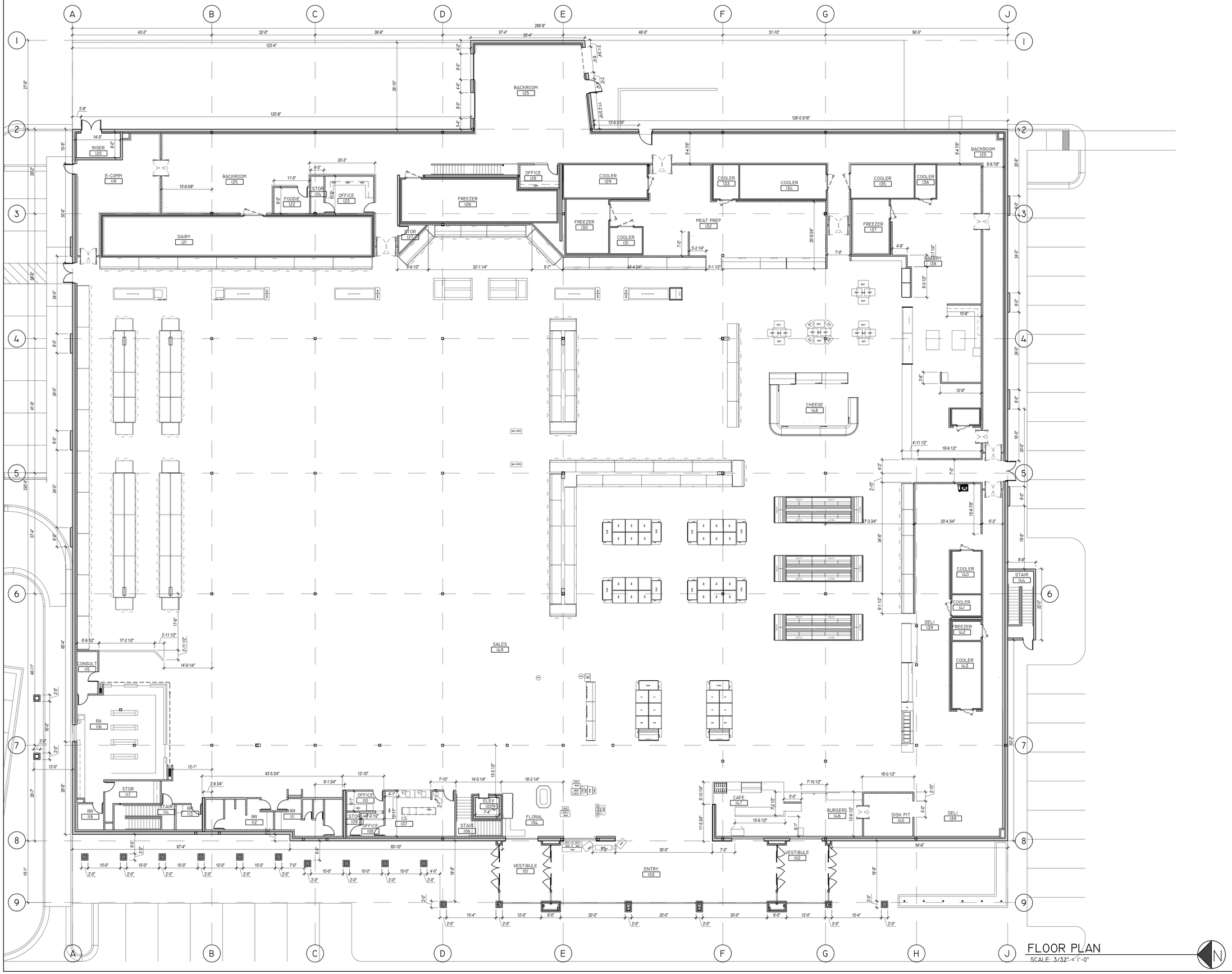
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DWG TYPE:
ARCHITECTURAL PHASE: BID SET

SHEET TITLE

FLOOR PLAN

A1.1



FLOOR PLAN
SCALE: 3/32" = 1'-0"

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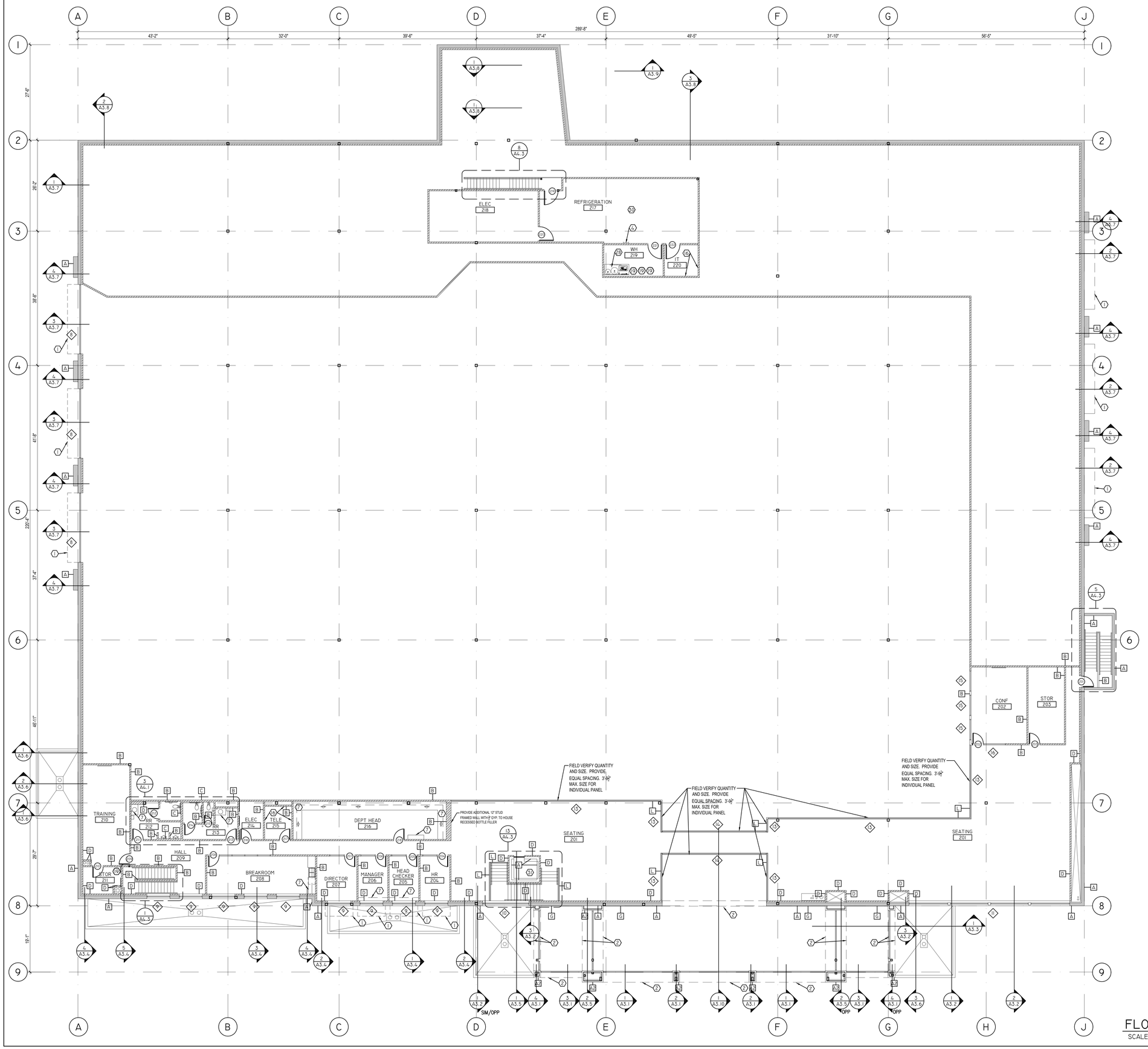
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SHEET TITLE

DIMENSION PLAN

A1.1A



FLOOR PLAN

SCALE: 3/32" = 1'-0"

KEYED NOTES

1. LINE OF CANOPY/TRELLIS ABOVE
2. LINE OF SOFFIT ABOVE
3. LINE OF VALANCE ABOVE SEE REFLECTED CEILING PLAN
4. ROOF ACCESS LADDER, RE: 8/A0.2
5. ROOF DRAIN AND OVERFLOW ROOF DRAIN PIPES, RE: PLUMBING
6. DOWNSPOUT NOZZLE, RE: PLUMBING AND EXTERIOR ELEVATIONS. 18" ABOVE FINISH GRADE, MAX.
7. MILLWORK, OWNER PROVIDED AND INSTALLED. G.C. TO PROVIDE BLOCKING AT BASE CABINETS AND UPPERS LOCATIONS.
8. OWNER PROVIDED CHECKSTANDS. G.C. TO INSTALL, RE: ELECTRICAL
9. FALSE COLUMN FOR REFRIGERATION & PLUMBING LINES, SEE DETAIL 8/A5.3 COORDINATE WITH REFRIGERATION & PLUMBING DRAWINGS
10. GAS METER, RE: PLUMBING AND CIVIL. PROVIDE 6" CONCRETE PAD AS REQUIRED TO MEET GAS COMPANY REQUIREMENTS
11. HOOD ABOVE, RE: MECHANICAL
12. ELECTRICAL PANEL, RE: ELECTRICAL
13. ELECTRICAL TRANSFORMER PAD, RE: 2/A0.3 AND ELECTRICAL
14. FIRE RISER, RE: SPECS.
15. FIRE DEPARTMENT CONNECTION
16. PROVIDE 3/4" PLYWOOD TELEPHONE BOARD THIS LOCATION, FULL HEIGHT.
17. MOP SINK, RE: PLUMBING. PROVIDE WALL FINISH AS INDICATED IN FINISH SCHEDULE OR FINISH PLAN. IF NOT NOTED, PROVIDE 4' X 4' FRP SURROUND. 4" TALL
18. HOT WATER HOSE BIB, RE: PLUMBING
19. WATER HEATER, RE: PLUMBING
20. DOCK LEVELER, RE: SPECS.
21. DOCK BUMPER
22. 8" CONCRETE FILLED PAINTED STEEL PIPE BOLLARDS, SEE DETAIL 7/A0.3
23. 18 GA. STAINLESS STEEL WALL PANELING OVER ¾" TREATED PLYWOOD SHEATHING BELOW OPENING. EXTEND 12" OF EACH SIDE OF OPENING AND EXTEND TO 8' AFF
24. FULL HEIGHT 20 GA. STAINLESS STEEL COLUMN WRAP
25. 20 GA. STAINLESS STEEL COLUMN WRAP TO 48"
26. CONCRETE PLANTER, RE: 1/A0.3. LANDSCAPING AND IRRIGATION, RE: CIVIL
27. SKYLIGHT ABOVE, RE: ROOF PLAN
28. RO WATER MACHINE, RE: PLUMBING
29. GENERATOR, RE: ELECTRICAL AND MECHANICAL
30. REFRIGERATION SYSTEM, BY OTHERS. G.C. TO PROVIDE MEP, RE: REFRIGERATION, MECHANICAL AND ELECTRICAL.
31. ELEVATOR, RE: ELECTRICAL AND SPECS
32. PASS THROUGH BANK DEPOSITORY, RE: 13/A4.2
33. FLAGPOLE, SEE CIVIL FOR EXACT LOCATION. RE: SPECS
34. WOOD AND STEEL TRELLIS. PROVIDE PAINTED STEEL FRAME, RE: STRUCTURAL. PROVIDE SOLID WOOD SLATS, RE: 2/A3.2

WALL TYPE SCHEDULE

NOTE: REFER TO A2.1 FOR EXTERIOR FINISH AND A6.1 FOR INTERIOR FINISH. ALL WOOD EXTERIOR WALL ASSEMBLIES INCLUDING BUT NOT LIMITED TO RIM BOARDS, SHEATHING AND BLOCKING ARE REQUIRED TO BE FIRE RETARDANT TREATED PER IBC 602.3

- A: REINFORCED CMU WALL, RE: STRUCTURAL AND EXTERIOR ELEVATIONS PROVIDE PERLITE LOOSE FILL MASONRY INSULATION AT EXTERIOR WALLS. PROVIDE 3" HUNTER Xci 286 POLYISOCYANURATE INSULATION, R-19, DIRECTLY ATTACHED TO INTERIOR FACE OF CMU. INSTALL WITH EXPOSED APPROVED FACING TOWARD INTERIOR IN ACCORDANCE WITH MANUFACTURER'S NFPA 286 TESTED ASSEMBLY AND INSTALLATION REQUIREMENTS. CMU TO PROVIDE 2-HOUR RATING REQUIRED AT ALL EXTERIOR WALLS. ASSEMBLY OF CMU rating per, IBC 721.1(2) Item 3.
- A1: 5/8" TYPE-X GYP. BOARD ON 1-1/2" X 18 GA. METAL HAT CHANNELS AT 24" O.C. CONTINUE GYP. BD. & CHANNELS TO B.O. ROOF DECK ABOVE. 3/4" CDX PLYWOOD TO 8'-0" HIGH.
- A2: TREATED WOOD SHEATHING ON STRUCTURAL METAL STUD FRAMING, RE: STRUCTURAL
- B: 3 5/8" METAL STUDS @ 16" O.C. WITH 5/8" TYPE-X GYP. BOARD ON BOTH SIDES, TO 6" ABOVE CEILING. BRACE TO STRUCTURE ABOVE. @ 4'-0" O.C. (UNLESS NOTED OTHERWISE) IF NO CEILING THEN CONTINUE GYP. BD. & STUDS TO B.O. ROOF DECK ABOVE. USE DENSSHIELD IN WET AREAS. PROVIDE FULL SOUND BATT AS NOTED IN SCOPE OF WORK NOTE #1.
- C: SAME AS WALL TYPE "B" WITH 6" METAL STUDS
- D: 3 5/8" METAL STUDS @ 16" O.C. WITH 5/8" TYPE-X GYP. BOARD ON ONE SIDE, TO 6" ABOVE CEILING. BRACE TO STRUCTURE ABOVE @ 4'-0" O.C. (UNLESS NOTED OTHERWISE) IF NO CEILING THEN CONTINUE GYP. BD. & STUDS TO B.O. ROOF DECK ABOVE. USE DENSSHIELD IN WET AREAS. PROVIDE FULL SOUND BATT AS NOTED IN SCOPE OF WORK NOTE #1.
- E: SAME AS WALL TYPE "D" WITH 6" METAL STUDS
- F: 3 5/8" METAL STUDS @ 16" O.C. WITH 5/8" GYP. BOARD BOTH SIDES, TO HEIGHT NOTED, BRACE WITH T.S. 3" X 3" X 1/4". SEE DETAIL 3/A5.2, PROVIDE T.S. POSTS @ 6'-0" O.C. OR AS SHOWN ON PLAN. USE DENSSHIELD IN WET AREAS
- G: 5/8" TYPE-X GYP. BOARD ON 7/8" METAL FURRING CHANNELS TO 6" ABOVE CEILING. IF NO CEILING THEN CONTINUE GYP. BD. & FURRING CHANNELS TO B.O. ROOF DECK ABOVE. USE DENSSHIELD IN WET AREAS.
- H: PREFABRICATED FREEZER/COOLER BOX WALLS. PROVIDED BY OWNER, INSTALLED BY OWNER
- J: 3 5/8" METAL STUDS @ 16" O.C. WITH 5/8" TYPE-X GYP. BOARD ON ONE SIDE. 3/4" CDX PLYWOOD ON THE BACKROOM SIDE TO 8'-0" HIGH WITH 5/8" TYPE-X GYP. BOARD ABOVE TO BOTTOM OF ROOF DECK ABOVE. USE DENSSHIELD IN WET AREAS. USE SOUND BATT IN RESTROOM/MECHANICAL/ELECTRICAL ROOM WALLS
- J1: SAME AS WALL TYPE "J" WITH 6" METAL STUDS
- K: 3 5/8" METAL STUDS @ 16" O.C. WITH 3/4" CDX PLYWOOD TO 8'-0" HIGH WITH 5/8" TYPE-X GYP. BOARD ABOVE TO BOTTOM OF ROOF DECK ABOVE ON ONE SIDE. USE SOUND BATT IN RESTROOM/MECHANICAL/ELECTRICAL ROOM WALLS
- K1: SAME AS WALL TYPE "K" WITH 6" METAL STUDS
- L: 3 5/8" METAL STUDS @ 16" O.C. WITH 5/8" GYP. BOARD BOTH SIDES, TO 24" ABOVE FINISH FLOOR. BRACE WITH 1 1/2" X 1/2" BAR STEEL. PROVIDE METAL RAILING ABOVE AS INDICATED IN DETAIL 14/A4.4.

ALL PREP AREAS AND RESTROOMS SCHEDULED WITH FURRED OR FRAMED WALLS SHALL BE SHEATHED WITH 1/2" DENSSHIELD SHEATHING WHERE TILE/FRP/STAINLESS STEEL IS SCHEDULED. PREP/SKIM COAT/PRIME SUBSTRATE AS REQUIRED TO ACCOMMODATE TILE/FRP/STAINLESS STEEL AS RECOMMENDED BY MFR TO ACCOMMODATE APPROPRIATE ADHESIVE TO

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SCOPE OF WORK NOTES

1. PROVIDE FULL THERMAL BATT INSULATION AND VAPOR BARRIER AT ALL EXTERIOR WALLS. PROVIDE FULL SOUND BATT INSULATION TO B.O. DECK AT ALL RESTROOMS, JANITOR, CONFERENCE ROOMS, THE COOKING SCHOOL, EQUIPMENT ROOMS, IT ROOMS, REFRIGERATION ROOMS, ELECTRICAL ROOMS AND MECHANICAL/PLUMBING ROOMS WALLS.
2. ALL GYP. IS TYPE "X" U.N.O.
3. PROVIDE ACOUSTICAL JOINT SEALANTS AT WALL TO WALL INTERSECTIONS, WALL TO FLOOR INTERSECTIONS AND ALL PENETRATIONS IN WALL TYPES SHOWN WITH ACOUSTICAL BATT INSULATION.
4. PROVIDE SEPARATION BARRIER BETWEEN ALL DISSIMILAR METALS, TYP.
5. REFER TO EXTERIOR ELEVATIONS FOR EXTERIOR FINISH MATERIAL SPECIFICATIONS. REFER TO INTERIOR ELEVATIONS AND INTERIOR FINISH SCHEDULE FOR INTERIOR FINISH MATERIAL SPECIFICATIONS.
6. PROVIDE METAL STUD DEFLECTION TRACK AT ALL NON-LOAD BEARING WALLS THAT EXTEND TO B.O. OF ROOF STRUCTURE OR ROOF DECK, RE: STRUCTURAL AND 6/A7.2.
7. REFER TO A1.3, A1.3A AND A1.3B FOR OWNER PROVIDED, CONTRACTOR INSTALLED ITEMS.
8. CAULK ALL EQUIPMENT AND FIXTURES AS REQUIRED IN FOOD PREP AREAS.
9. ALL EXPOSED STEEL STRUCTURE INCLUDING BUT NOT LIMITED TO ROOF DECK, FRAMING, COLUMNS, BEAMS, JOISTS AND PURLINS, BOTH INTERIOR AND EXTERIOR IS TO BE PAINTED. RE: SPECS.
10. G.C. TO PROVIDE GALVANIZED SHEET METAL CLOSURE STRIPS TO MATCH WALK-IN BOX FINISH BETWEEN WALK-IN BOX AND ADJACENT WALLS, MATCH FULL HEIGHT OF THE BOX, TYPICAL AT ALL WALK-IN BOX TO WALL CONDITIONS, RE: 4/A5.1
11. PROVIDE 20 GA. STAINLESS STEEL CLOSURE STRIPS TO CLOSE REFRIGERATED CASES TO ADJACENT WALLS AND TO CLOSE EQUIPMENT TO ADJACENT WALLS, CONTINUOUS FROM FLOOR TO SOFFIT, TYP.
12. WRAP END OF WALLS AND EXPOSED CORNERS WITH 20 GA. STAINLESS STEEL TO 48" AFF. (FULL HEIGHT AT WALLS IN DELI, BAKERY, PRODUCE, MEAT AND SEAFOOD DEPARTMENTS)
13. PROVIDE 20 GA. STAINLESS STEEL CLOSURES FROM TOP OF CASE TO TOP OF LOW WALL WHERE CASE SITS AGAINST A LOW WALL, TYP.
14. PROVIDE AND INSTALL FIRE EXTINGUISHERS PER THE FIRE MARSHAL'S DIRECTION. SEE SPECS AND 13/A4.1 FOR MOUNTING STANDARDS.
15. ALL PENETRATIONS AND JOINTS IN THE CONT INSULATION SERVING AS THE AIR BARRIER SHALL COMPLY WITH IECC C402.5.1.1.

HARMONS SPANISH FORK

2643 East 400 North
Spanish Fork, Utah

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ARCHITECTURAL PHASE: BID SET

SHEET TITLE

MEZZANINE PLAN

A1.2

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SPANISH FORK

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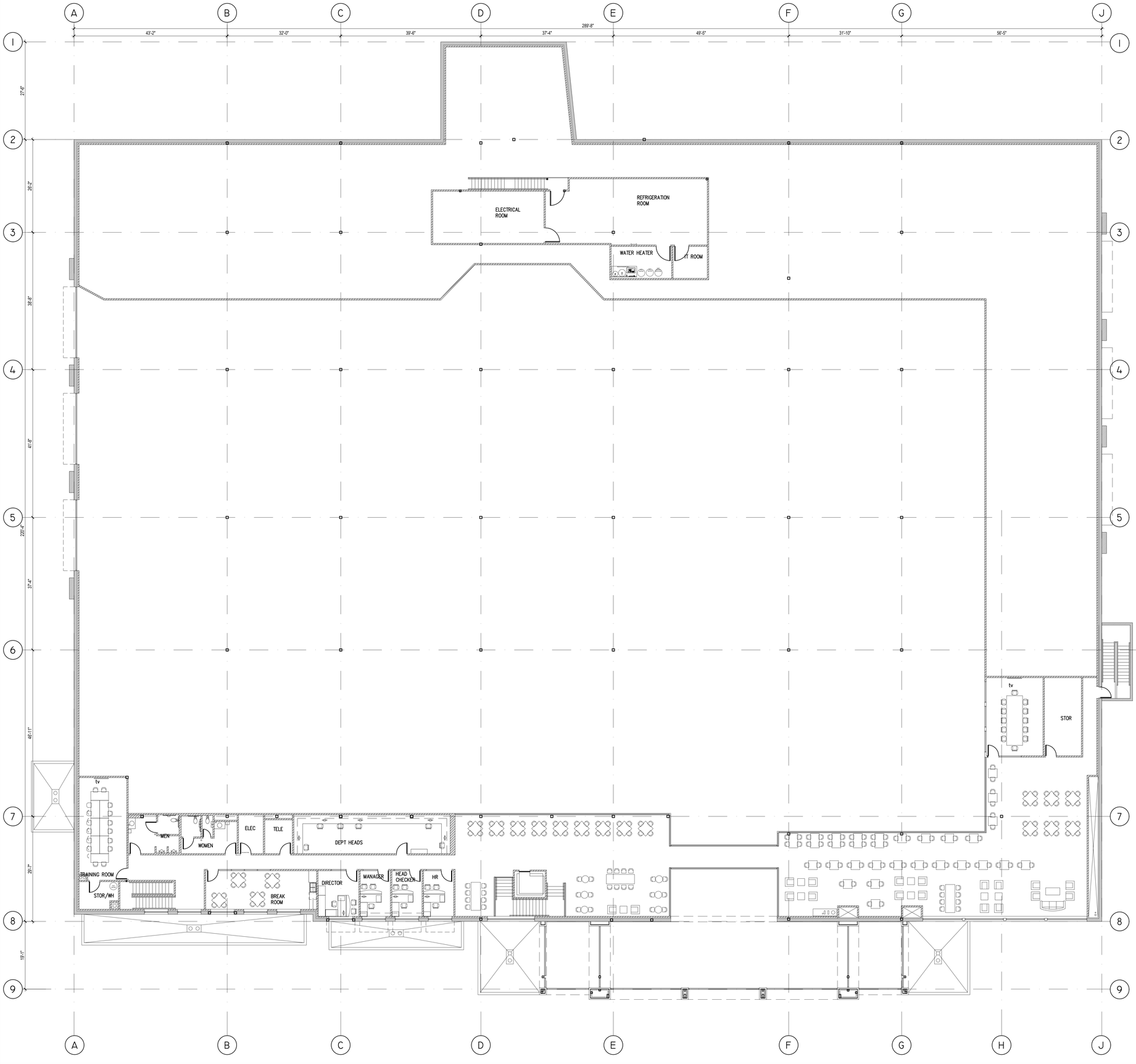
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SHEET TITLE

FIXTURE PLAN

A1.3

FIXTURE PLAN
SCALE: 3/32" = 1'-0"



MEZZANINE FIXTURE PLAN

SCALE: 3/32" = 1'-0"

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SHEET TITLE

MEZZANINE FIXTURE PLAN

A1.3A

EQUIPMENT SCHEDULE

EQUIPMENT				PROCUREMENT		INSTALLATION																														
				EQUIPMENT FURNISHED BY	SET IN PLACE BY	SERVICES REQUIRED				ELECTRICAL								WATER				WASTE						REMARKS
TAG NUMBER	QUANTITY	DESCRIPTION	MANUFACTURER	MODEL	AFS STORE PLANNING CONTRACTOR	OWNER PROVIDED	OWNER	CONTRACTOR	ELECTRICAL	MECHANICAL GAS	WATER	WASTE	VOLTAGE	PHASE	KILOWATTS	AMPERS	MOTOR HP	CONNECTION				HOT	COLD	SIZE	CONNECTION			DIRECT INDIRECT	SIZE	CONNECTION			
																		HEIGHT A.F.F.	CORD & PLUG	OWNER	CONTRACTOR				HEIGHT A.F.F.	OWNER	MECH. CONN.			HEIGHT A.F.F.	OWNER	MECH. CONN.	
B2	3	WALL MOUNT HAND SINK / KNEE VALVES / RH&LH SIDE SPLASH	JOHN BOOS	PBHS-W-1410-P-SSLR	●		●				●	●										●	●			●		●	●	2"		●	G.C. TO PROVIDE BLOCKING IN WALL
B4	1	3-COMPARTMENT SINK, (1) LEFT OR RIGHT HAND 18" DB, 16 GAUGE	JOHN BOOS	3PB18-1D18L	●		●				●	●										●	●			●		●	●	3 1/2"		●	
B6	1	3-COMPARTMENT SINK, (2) 20" DB, 16 GAUGE, 12" DEEP	JOHN BOOS	3PB2028-2020	●		●				●	●										●	●			●		●	●	3 1/2"		●	
B16	2	1-COMPARTMENT SINK, NO DB, 16 GAUGE, 12" DEEP	JOHN BOOS	1PB1618	●		●				●	●										●	●			●		●	●	3 1/2"		●	
B53	1	MICROWAVE / COUNTER TOP / 1000W / MEDIUM VOLUME	AMANA	RCS10TS	●		●		●				120	1	1050	15		●		●														NEMA 5-15 / 5 FT CORD
B62	6	SMARTWALL, 4' WIRE SHELVING, (1) ROW 14" (1) ROW 18" SHELVES	INTERMETRO	SMARTWALL, 4' / K3 GREEN EPOXY	●		●																												G.C. TO PROVIDE BLOCKING IN WALL SUPPLIED BY OTHERS
B100	1	ARTISAN DECK OVEN	TAGLIAVINI	EM76/4060	●		●		●				208	3	36.16				●	●															EACH DECK AT 11.4 KW = 4 KW FOR STEAM
B101	1	VARISLER	OLIVER	2005	●		●		●				115	1		20	3/4	●		●															7' CORD, 3 WIRE W/GROUNDING PLUG STANDARD
B102	4	STAINLESS STEEL TABLE	JOHN BOOS		●		●																												
B103	2	SPICE SHELF	JOHN BOOS		●		●																												
B104	1	WATER CHILLER	SITEP	R100E+A	●		●		●		●		120	1		83		●		●		●	●	3/4"		●									
B105	1	HYDROLIC DIVIER	JAC	DIV-R 20	●		●		●				208	3	1.8	20		●		●															NEMA L15-20P
B106	1	H.D. QUEEN MARY BANQUET CART	WINHOLT	BNQT-5	●		●																												
B107	1	DOUGH MOULDER	JAC	UNIC	●		●		●				208	3	1.1	4.8		●		●															WITH STAND
B108	1	STAINLESS STEEL TABLE WITHOUT SPLASH	JOHN BOOS		●		●																												
B109	4	SCALE	BIZERBA	K3	●		●		●				120	1				●		●															
B111	1	ARTISAN OVEN LOADER	TAGLIAVINI	TAG-INTLOADER	●		●																												
B112	1	2 DOOR REACH-IN REFRIGERATOR	ASBER	ARR-49-H	●		●		●				115	1		3.2	1/3	●		●															NEMA 5-15P
B113	1	THREE COMPARTMENT SINK	JOHN BOOS	3PB1824	●		●				●	●										●	●	3/4"		●		●	2"		●			
B114	1	TARTLET PRESS	BAKON	BKTM100	●		●		●				220	1	3.2	20		●		●															
B115	1	20 QUART MIXER	VARIMIXER	KODAK V20KT	●		●		●				230	1	.5	11	1			●	●														
B116	1	PROOFER CABINET, ROLL-IN	REVENT	P204-180 PROOFER	●		●		●	●	●		208	3		24		●		●		●	●	1/2"		●		●	2"		●			
B117	1	MAPLE BAKERS WORK TABLE, NO SPLASH, NO SHELF, S/S LEGS - 60" X 120"	JOHN BOOS	SBO-S20 / BKSC360	●		●																												
B118	2	BAKERY DONUT CASE			●		●		●				120	1		5		●		●															POWER FOR LIGHT FIXTURES
B119	1	KOOK E KING COOKIE DEPOSITOR	KOOK E KING		●		●		●				115	1	0.49	7.3		●		●															
B172	1	HOBART, 30 QT MIXER, COUNTER TOP	HOBART/BACH-WEST	HL-300	●		●			●			460	3		20	3/4			●	●														PLUG: NEMA L16-20R / CORD INCLUDED
B174	1	HOBART, 60 QT MIXER, FLOOR MODEL	HOBART/BACH-WEST	HL600	●		●			●			460	3		20	3/4	3/2"		●	●														PLUG: NEMA L16-20P / NO CORD
B241	2	ROTATING DOUBLE RACK OVEN / ROLL-IN / NAT'L GAS	REVENT	724-G	●	●			●	●	●	●	220	3		16		●		●		●	●	1/2"		●		●	1 1/4"		●				CONNECT TO R.O.. WATER 343,000 BTU
B257	1	VARIMIXER, 80 QT - FLOOR MODEL	VARIMIXER	V80	●		●		●				208	3		13				●	●														
B270	2	WATER METER	DOUGH TECH	DT30MIX	●		●		●				115	1						●	●		●	3/4"		●									
B310	1	DOUGH TECH, 100 QT SPIRAL MIXER. M-PREMIUM LINE - FLOOR MODEL	M60P	DOUGH TECH	●		●		●				208	3		21.3				●	●														
B337	1	PAN WASHER, ELECTRIC, FRONT LOAD	LVO MANUFACTURING	FL-14E	●		●		●	●	●		208	3		79.1	10			●	●		●	1/2"	81"	●		●	1 1/2"	8 1/4"	●			
C64	2	6' REFRIGERATED MOBILE MERCHANDISER	HUSSMANN	QI-SSM-6S	●		●						230	1		15.6	3/4	●		●															CEILING DROP CORD/CONFIRM W/OWNER NEMA PLUG: L14-30P
D2	6	WALL MOUNT HAND SINK / KNEE VALVES / RH&LH SIDE SPLASH	JOHN BOOS	PBHS-W-1410-P-SSLR	●		●			●	●											●	●	1/2"		●		●	2"		●				G.C. TO PROVIDE BLOCKING IN WALL
D3	1	SPEED OVEN	ROCKET EXPRESS		●		●		●				208	1		6.2		●		●															NEMA 6-30 PLUG
D5	2	3-COMPARTMENT SINK, (2) 18" DB, 16 GAUGE, 12" DEEP	JOHN BOOS	3PB1824-2D18	●		●			●	●											●	●					●	3 1/2"		●			
D6	1	3-COMPARTMENT SINK, (2) 20" DB, 16 GAUGE, 12" DEEP	JOHN BOOS	3PB2028-2020	●		●			●	●											●	●		30"	●		●	3 1/2"		●			
D16	1	1-COMPARTMENT SINK, NO DB, 16 GAUGE, 12" DEEP	JOHN BOOS	1PB1618	●		●			●	●											●	●		30"	●		●	3 1/2"		●			
D57	1	HAND WRAPPER, COUNTER TOP	HEAT SEAL	625A	●		●		●				115	1		6.5		●		●															
D62	5	SMARTWALL, 4' WIRE SHELVING, (1) ROW 14" (1) ROW 18" SHELVES	INTERMETRO	SMARTWALL, 4' / K3 GREEN EPOXY	●		●																												G.C. TO PROVIDE BLOCKING IN WALL SUPPLIED BY OTHERS
D72	1	SUPER ERECTA. 74"H POSTS, 24" X 48" METROSEAL SHELVING, 4-TIER	INTERMETRO	74PK3 / 2448NK3 / GREEN EPOXY	●		●																												
D75	1	TRIPLE SPINDLE DRINK MIXER	HAMILTON BEACH	HMD400R	●		●		●				120	1			1/3	●		●															900W.
D99	1	BRAISING PAN/TILTING SKILLET	CLEVELAND	SGL-40-T1	●		●		●	●	●	●	220	1		1.5		●		●		●	●	3/4"		●		●	2"		●				BTU RATING 100,000/HR, NATURAL GAS
D101	1	GELATO DISPLAY CASE	GTI DESIGNS	JULY	●		●		●				220	1		13		●		●															6-15P
D102	1	ESPRESSO MACHINE	LA MARZOCCO	LINEA PB 2 GROUP	●		●		●				208	1		30		●		●															
D103	1	COFFEE BEAN HOPPER	BUNN	MHG SST	●		●		●				120	1		11		●		●															NEMA 5-15LP
D104	1	UNDERCOUNTER REFRIGERATOR TABLE	ASBER	AUTR 27 F	●		●		●				115	1		1.5		●		●															NEMA 5-15P
D105	2	ESPRESSO GRINDER	SWIFT		●		●		●				120	1		12		●		●															
D106	2	BLENDER	BLENDTEC	CONNOISSEUR 825	●		●		●				120	1		10		●		●															
D107	1	UNDERCOUNTER ICE MACHINE	MANITOWOC	310 SERIES	●		●		●	●	●		115	1		7		●		●		●	●	3/8"		●		●	1/2"		●			
D108	1	DOUBLE COFFEE BREWER	CURTIS	G4TP11GA100	●		●		●				220			3 0.5/4.5	1.0			●	●		●	3/8"		●		●	1"		●				3 WIRE + G
D109	2	SMARTLEVER PRODUCTIVITY SYSTEM	INTERMETRO INDUSTRIES		●		●																												PROVIDED BY OTHERS
D110	1	BREADING / BATTER TABLE, MANUAL SIFT			●		●																												
D111	1	ABOVE COUNTER ICE BEVERAGE DISPENSER	LANCER	BAVARIETY ACIB 30	●		●		●		●	●	120	1		20		●		●															
D112	2	NUGGET ICE MACHINE - TOP OF BEVERAGE DISP.	MANITOWOC	RNP0620	●		●		●		●	●	115	1		20	1.0	●		●		●	●	3/8"		●		●	3/4"		●			
D113	1	SOLID DOOR LOW TEMP RI FREEZER	GLOBAL	T30LSP	●		●		●				115	1		10.5		●		●															
D120	1	REACH-IN FREEZER - SINGLE DOOR	ASBER	ARF-23-H	●		●		●				115	1		4.3	1/2	●		●															
D122	1	CHEF BASE	ASBER	ACBR-52	●		●		●				115	1		2.5		●		●															
D123	1	THERMOSTATIC GAS GRIDDLE	ASBER	AETG 24 EM	●		●			●																									60,000 BTU, 5" WC, 3/4" GAS LINE
D124	1	FRY HOLDING STATION	HATCO	GRFHS-2E	●		●		●				120	1		10		●		●															NEMA 5-15P
D125	1	30"X30" STAINLESS STEEL TABLE	JOHN BOOS	STRS-3030SK	●		●																												
D128	1	PIZZA PREP TABLE	ASBER	APTP-93	●		●		●				115	1		6.4		●		●															NEMA 5-15P
D129	6	SCALE	BIZERBA	K3 100	●		●						120	1				●		●															
D130	1	T&S PRE-RINSE, 8" WALL MOUNT, 14" ADD-ON FAUCET	T&S BRASS	B-0133-ADF14-B	●		●				●											●	●	3/8"NPT		●									
D135	1	MOP SINK BOWL, 28"W X 20"D X 12"H, OVERALL: 32 5/8"W X 23 1/8"D			●	●	●				●	●										●	●			●		●	3 1/2"		●				G.C. TO PROVIDE BLOCKING IN WALL
D147	1	EMERALD 36" GAS RANGE / (6) OPEN BURNERS / SINGLE CONVECTION OVEN	ASBER	AER-6-36-6-EM	●		●			●																									NATURAL GAS / 210,000 BTU/HR 9" W.C. / 3/4" GAS LINE
D200	2	SCANNER SCALE	NCR		●		●		●				120	1				●		●															
D202	1	8 FT HOT MULTI-DECK "CHICKEN" MERCHANDISER	SOUTHERN CASE ARTS	MDC-HT02-H	●		●		●				208	1		30		●		●															
D204	1	CLEAN DISH TABLE			●		●																												
D205	1	SOILED DISHTABLE			●		●																												
D206	1	TWO COMPARTMENT SINK	JOHN BOOS	2PB24	●		●				●	●										●	●	1/2"		●		●	2"		●			
D207	5	STAINLESS STEEL ENCLOSED TABLES	JOHN BOOS		●		●																												
D225	2	FRYER / OPEN MULTI-BASKET / DOUBLE BANKED / 3-PHASE	RESFAB	MB-502ATI-N / 3-PH	●		●		●				208	3	2 x 14.4	45/43		●		●															NOTE: EACH VAT MUST BE CONNECTED ON A SEPARATE DEDICATED CIRCUIT BREAKER. (2) EA
D230	1	8 POTS OVAL SOUP STATION	FRANESSE		●		●		●				120/208	1				●		●															NEMA 5-20R, FIVE DUPLEX OUTLETS WITH 8 FOR SOUP WELLS AND 2 FOR FANS
D231	1	20 PAN HOT FOOD BAR	ATLANTIC FOOD BARS	IHFB9468-HFBW-UO-VH	●		●		●				120/208	3				●		●															
D232	1	SELF-CONTAINED SALAD BAR	SPECIALTY FABRICATORS		●		●		●				120/208	1		9.99/26.6		●		●															
D233	1	6 WELL HOT FOOD BAR	CAYUGA	FBSH6	●		●		●				115/208	1		26.1		●		●															
D343	1	PAN WASHER, ELECTRIC, PASS THROUGH	LVO MANUFACTURING	PT-10E	●		●		●	●	●	●	208	3		70	7 1/2			●	●		●	1/2"	79 1/2"	●		●	1 1/2"	8"	●			
D465	13	SMARTLEVER / ADD-ON KIT / 4 ROWS SHELVING / 30"(D) X 42"(W) X 76"(H)	INTERMETRO	SM7630/42-ADD	●		●																												
D466	9	SMARTLEVER / STARTER KIT / 4 ROWS SHELVING / 30"(D) X 48"(W) X 76"(H)	INTERMETRO	SM7630/48-KIT	●		●																												
D470	4	MANUAL MEAT SLICER / COUNTER TOP	BIZERBA NEC	GSP-HS-150	●		●		●				120	1	0.36	3.5	1/2	48"	●		●															NEMA 5-15P
D499	1	MANUAL MEAT SLICER / CONTER TOP	BIZERBA NEC	GSP-HS-150	●		●		●				120	1	0.36	3.5	1/2	48"	●		●															NEMA 5-15P
D499	4	MANUAL MEAT SLICER / COUNTER TOP	BIZERBA NEC	GSP-HS-150	●		●		●				120	1	0.36	3.5	1/2	48"	●		●															NEMA 5-15P
D470	3	SMARTLEVER / STARTER KIT / 4 ROWS SHELVING / 30"(D) X 60"(W) X 76"(H)	INTERMETRO	SM7630/60-KIT	●		●																												
D468	2	SMARTLEVER / STARTER KIT / 4 ROWS SHELVING / 30"(D) X 54"(W) X 76"(H)	INTERMETRO	SM7630/54-KIT	●		●																												
D470	3	SMARTLEVER / STARTER KIT / 4 ROWS SHELVING / 30"(D) X 60"(W) X 76"(H)	INTERMETRO	SM7630/60-KIT	●		●																												
D12	1	VERTICAL BALER, HEAVY DUTY	GRAM A LOT	VB-60	●		●		●				460	3			15			●	●														POWER UNIT MOUNTED ON SIDE FOR SERVICE ACCESS
R19	1	ICE & BEVERAGE DISPENSER	FOLLET		●		●		●	●	●	●	115	1		15		●		●		●	●	1/2"		●		●	3/4"		●				SUPPLIED BY VENDOR
R135	1	MOP SINK BOWL, 28"W X 20"D X 12"H, OVERALL: 32 5/8"W X 23 1/8"D	JOHN BOOS	PBMS2820-12	●	●			●		●	●										●	●			●		●	3 1/2"		●				G.C. TO PROVIDE BLOCKING IN WALL
X31	1	MEDICAL REFRIGERATOR / FULL HEIGHT / SLIDING DOORS	PHCBI	MPR-S500H-PA	●		●		●				115	1		20		●		●															PLUG: NEMA 5-15P
X32	1	MEDICAL REFRIGERATOR / UNDERCOUNTER	PHCBI	TSU-4R9I-N6	●		●		●				115	1		20		●		●															PLUG: NEMA 5-15P
X100	1	DROP-IN SIN	ADVANCE TABCO	DI-1-10	●		●				●	●										●	●	1/2"		●		●	1.5"		●			

TAG NUMBER	QUANTITY	DESCRIPTION	MANUFACTURER	MODEL	EQUIPMENT FURNISHED BY	SET IN PLACE BY	SERVICES REQUIRED	ELECTRICAL	WATER	WASTE	REMARKS
					EQUIPMENT	PROCUREMENT		ELECTRICAL	WATER	WASTE	
					INSTALLATION						

EQUIPMENT SCHEDULE

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STATE OF UTAH
KRISTEN IRELAND VOROS
No. 7557079-0301
LICENSED ARCHITECT

HARMONS
SPANISH FORK

2643 East 400 North
Spanish Fork, Utah

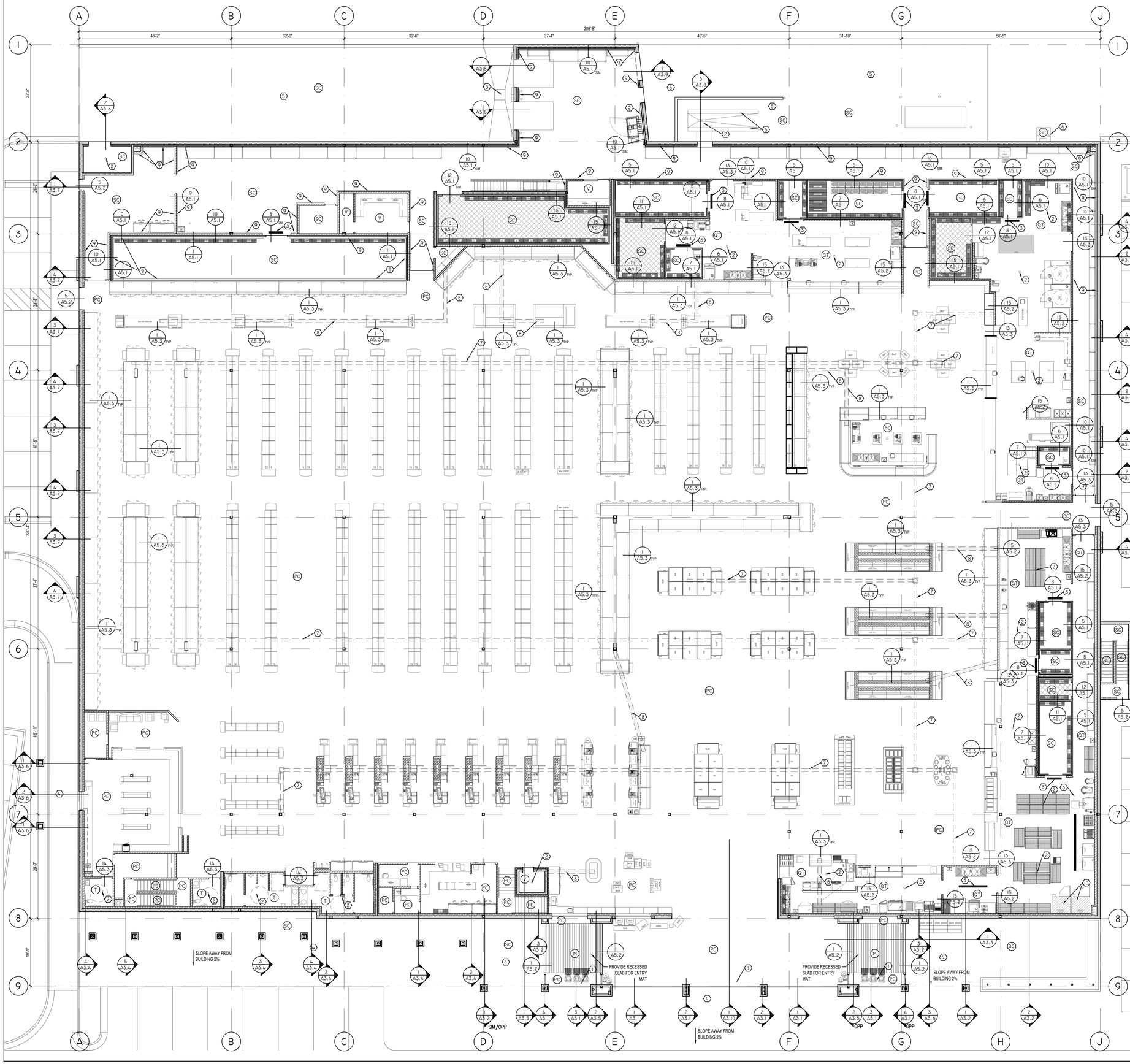
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CAD DWG FILE NO:
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DESIGNED BY:
DWG TYPE:
ARCHITECTURAL PHASE: BID SET

SHEET TITLE

FIXTURE SCHEDULE

AI.3B



FLOOR FINISH PLAN
SCALE: 3/32" = 1'-0"

FLOOR FINISH SCOPE OF WORK NOTES

1. PROVIDE 4" CONCRETE SLAB OVER 4" GRANULAR DRAINAGE FILL OVER 10 MIL. VAPOR BARRIER AT MAIN FLOOR. RE: STRUCTURAL.
2. PROVIDE CONCRETE SLAB ON METAL DECK AT MEZZANINE, RE: STRUCTURAL.
3. ELEVATIONS ON SLOPED SLABS ARE HEIGHT ABOVE OR BELOW ELEV. 100'-0", SET TOPS OF DRAINS AS NOTED OR AT 99'-11 1/2" IF NOT NOTED. NOT ALL FLOOR DRAINS AND FLOOR SINKS ARE SHOWN ON THIS PLAN, SEE PLUMBING AND REFRIGERATION DRAWINGS.
4. SET ALL COOLER BOX PANELS 2" MIN. AWAY FROM ADJACENT WALLS.
5. FLOOR SLABS SHALL SLOPE CONTINUOUS TO FLOOR DRAINS.
6. ALL FREEZER FLOORS TO BE FLAT WITHOUT SLOPE AND LEVEL WITH THE FINISHED FLOOR OUTSIDE OF THE FREEZER.
7. INSTALL VINYL COVE BASE AT ALL WAINSCOT AND MILLWORK.
8. PROVIDE SEALED CONCRETE CURB AT BACKROOM AND DAIRY COOLER, SEE DETAILS ON A5.1.
9. UNDER SLAB REFRIGERATION LINES IN P.V.C. SLEEVE. G.C. TO TRENCH & BACKFILL. REFRIGERATION CONTRACTOR TO PROVIDE TRENCH LAYOUT, SLEEVE & REFRIGERATION LINES. TRENCH TO BE MIN. 12" WIDE, ADD 6" FOR EACH ADDITIONAL PAIR OF LINES OVER (2) PAIR. TRENCH TO BE MINIMUM 18" DEEP AT STUB-UP AND IS TO SLOPE DOWN AT 1:20 TO RISER OR EQUIPMENT ROOM. PROVIDE TRENCH DEPTH TO ALLOW FOR EXPANSION LOOP AS SHOWN IN DETAIL 10/R-9. GENERAL CONTRACTOR TO PROVIDE BEDDING SAND AND BACKFILL MATERIALS AS NOTED ON THE REFRIGERATION DRAWINGS. RE: 7/A5.3.
10. UNDER FLOOR ELECTRICAL DUCT. SEE ELECTRICAL DRAWINGS. COORDINATE EXACT LOCATION W/ STORE FIXTURING CONTRACTOR.
11. COORDINATE LOCATION OF DRAINS WITH PLUMBING SHEETS. CONDENSATE DRAIN PIPING RUNNING FROM REFRIGERATED CASES AND EQUIPMENT TO FLOOR SINKS WILL BE PROVIDED BY THE REFRIGERATION CONTRACTOR. FLOOR SINKS & PLUMBING BY PLUMBING CONTRACTOR.
12. G.C. TO PROVIDE ALL TRENCHING. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND REFRIGERATION FOR EXTENT.
13. PROVIDE CONCRETE CONTROL JOINTS AS SHOWN ON PLAN. IF NO JOINTS ARE SHOWN, PROVIDE CONTROL JOINTS PER THE SPECS.
14. ALL COOLER SLABS TO SLOPE CONTINUOUSLY TO THE DOOR AS INDICATED ON THE FLOOR FINISH PLAN.
15. ALL PREP AREA, RESTROOM AND JANITOR ROOM SLABS TO SLOPE CONTINUOUSLY TO FLOOR DRAINS AS INDICATED ON THE FLOOR FINISH PLAN.
16. ALL COOLERS AND FREEZERS TO BE FINISHED WITH A BROOM FINISH. REVIEW WITH OWNER PRIOR TO INSTALLATION.

FINISH FLOOR SCHEDULE

SC	SEALED CONCRETE: 2 COAT CLEAR EPOXY @ COOLERS AND FREEZERS. SODIUM SILICATE CONCRETE SEALER @ STORAGE, MECHANICAL ROOMS, & EXTERIOR SLABS. PROVIDE HARD- TROWELED EPOXY FILLER @ ALL CONC. JOINTS IN PREP AREAS AND WALK-IN BOXES PRIOR TO APPLICATION OF FINISH.
PC	STAIN, GRIND AND POLISH CONCRETE WITH 6" RUBBER BASE, RE: SPECS AND DECOR FOR COLOR AND PATTERN
V	LUXURY VINYL PLANK FLOORING WITH 6" RUBBER BASE
M	ALUMINUM ENTRY MAT
QT	NON SLIP QUARRY TILE AND 1/2" SETTING BED WITH COVED TILE BASE. DAL TILE ASHEN GRAY 0703. PROVIDE RECESSED CONCRETE SLAB, RE: 13/A5.3
T	PORCELAIN TILE AND 1/2" SETTING BED WITH COVED TILE BASE. PROVIDE RECESSED CONCRETE SLAB, RE: 14/A5.3
TI	PORCELAIN TILE OVER THINSET MORTAR BED WITH COVED TILE BASE
	6" RUBBER BASE TYPICAL, UNO. 4" @ CHECKSTANDS AND MILLWORK

FINISH FLOOR KEYED NOTES

1. CART BUMPER, PROVIDED BY THE OWNER INSTALLED BY THE G.C. SEE DETAIL 16/A5.2.
2. FLOOR DRAIN, RE: PLUMBING AND 11/A5.3
3. TRENCH DRAIN, RE: PLUMBING
4. CONCRETE WALK, RE: CIVIL
5. 8" CONCRETE LOADING DOCK PAD AND TRASH COMPACTOR PAD, RE: CIVIL
6. COMPACTOR SKID, RE: 6/A0.3
7. ELECTRICAL DUCT, PROVIDE 4" CONCRETE SUB SLAB TO SUPPORT DUCT, RE: ELEC
8. REFRIGERATION TRENCH, RE: 7/A5.3, MECHANICAL, ELECTRICAL AND REFRIGERATION
9. SEALED CONCRETE CURB, SEE DETAILS ON A5.1
10. RECESSED SLAB AT BLAST CHILLER, COORDINATE EXACT CLEAR DIMENSIONS WITH EQUIPMENT CUT SHEET. CONTINUE QUARRY TILE DOWN SIDES AND BOTTOM OF RECESS.

SLAB LEGEND

- DEPRESSED SLAB @ FREEZERS, T.O. SLAB @ ELEVATION 99'-2". SEE DETAILS ON SHEET A5.1.
- RECESSED SLAB AT BLAST CHILLER, COORDINATE EXACT DIMENSIONS WITH EQUIPMENT CUT SHEET

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KRISTEN IRELAND VOROS
No. 7557079-0301
LICENSED ARCHITECT

HARMONS SPANISH FORK

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Spanish Fork, Utah

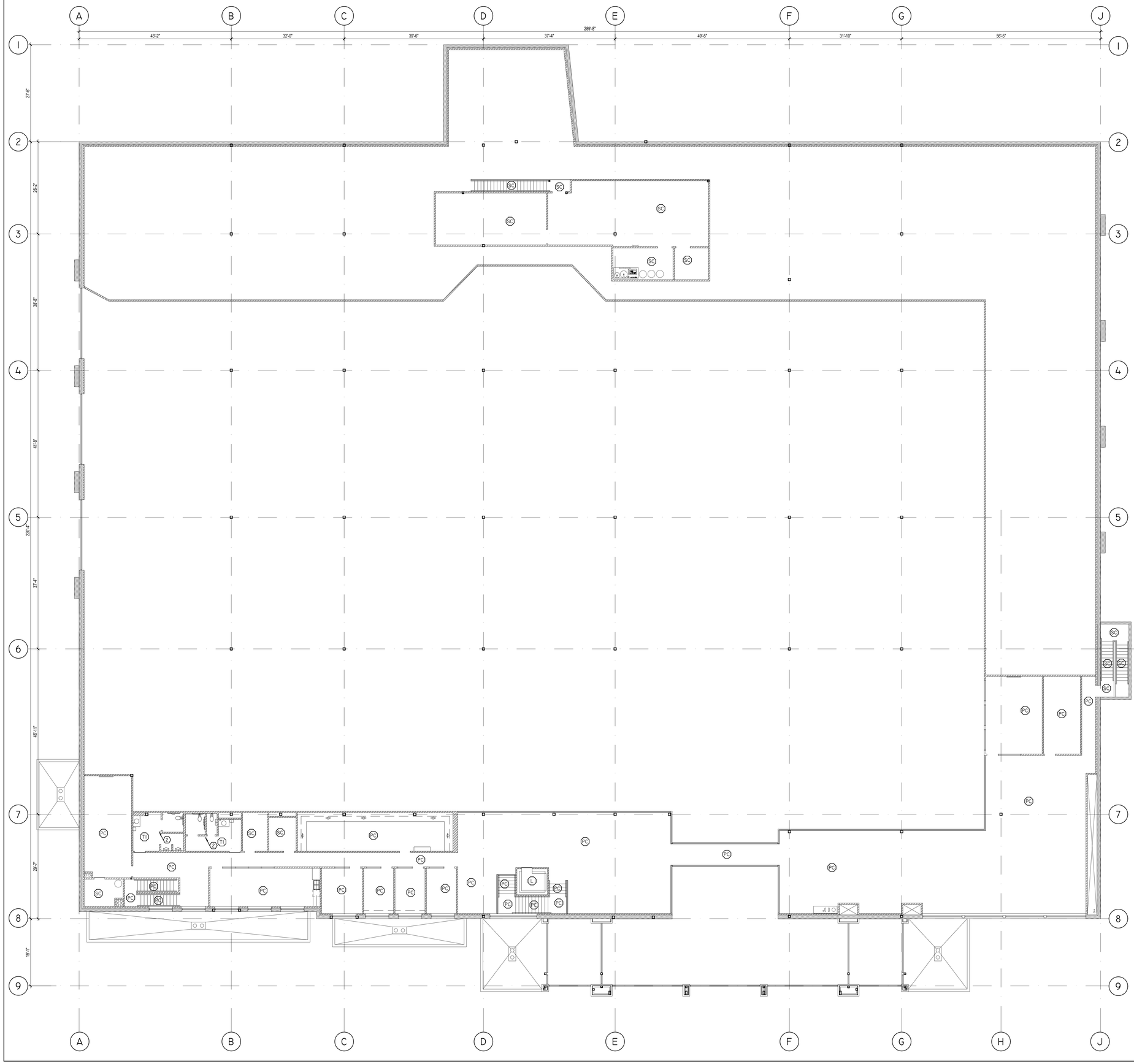
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DESIGNED BY:
DWG TYPE:
ARCHITECTURAL PHASE: BID SET

SHEET TITLE

FLOOR FINISH PLAN

A1.4



SECOND FLOOR FINISH PLAN

SCALE: 3/32" = 1'-0"

FLOOR FINISH SCOPE OF WORK NOTES

1. PROVIDE 4" CONCRETE SLAB OVER 4" GRANULAR DRAINAGE FILL OVER 10 MIL. VAPOR BARRIER AT MAIN FLOOR. RE: STRUCTURAL.
2. PROVIDE CONCRETE SLAB ON METAL DECK AT MEZZANINE, RE: STRUCTURAL.
3. ELEVATIONS ON SLOPED SLABS ARE HEIGHT ABOVE OR BELOW ELEV. 100'-0". SET TOPS OF DRAINS AS NOTED OR AT 99'-11 1/2" IF NOT NOTED. NOT ALL FLOOR DRAINS AND FLOOR SINKS ARE SHOWN ON THIS PLAN, SEE PLUMBING AND REFRIGERATION DRAWINGS.
4. SET ALL COOLER BOX PANELS 2" MIN. AWAY FROM ADJACENT WALLS.
5. FLOOR SLABS SHALL SLOPE CONTINUOUS TO FLOOR DRAINS.
6. ALL FREEZER FLOORS TO BE FLAT WITHOUT SLOPE AND LEVEL WITH THE FINISHED FLOOR OUTSIDE OF THE FREEZER.
7. INSTALL VINYL COVE BASE AT ALL WAINSCOT AND MILLWORK.
8. PROVIDE SEALED CONCRETE CURB AT BACKROOM AND DAIRY COOLER, SEE DETAILS ON A5.1.
9. UNDER SLAB REFRIGERATION LINES IN P.V.C. SLEEVE. G.C. TO TRENCH & BACKFILL. REFRIGERATION CONTRACTOR TO PROVIDE TRENCH LAYOUT, SLEEVE & REFRIGERATION LINES. TRENCH TO BE MIN. 12" WIDE, ADD 6" FOR EACH ADDITIONAL PAIR OF LINES OVER (2) PAIR. TRENCH TO BE MINIMUM 18" DEEP AT STUB-UP AND IS TO SLOPE DOWN AT 1:20 TO RISER OR EQUIPMENT ROOM. PROVIDE TRENCH DEPTH TO ALLOW FOR EXPANSION LOOP AS SHOWN IN DETAIL 10/R-9. GENERAL CONTRACTOR TO PROVIDE BEDDING SAND AND BACKFILL MATERIALS AS NOTED ON THE REFRIGERATION DRAWINGS. RE: 7/A5.3.
10. UNDER FLOOR ELECTRICAL DUCT. SEE ELECTRICAL DRAWINGS. COORDINATE EXACT LOCATION W/ STORE FIXTURING CONTRACTOR.
11. COORDINATE LOCATION OF DRAINS WITH PLUMBING SHEETS. CONDENSATE DRAIN PIPING RUNNING FROM REFRIGERATED CASES AND EQUIPMENT TO FLOOR SINKS WILL BE PROVIDED BY THE REFRIGERATION CONTRACTOR. FLOOR SINKS & PLUMBING BY PLUMBING CONTRACTOR.
12. G.C. TO PROVIDE ALL TRENCHING. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND REFRIGERATION FOR EXTENT.
13. PROVIDE CONCRETE CONTROL JOINTS AS SHOWN ON PLAN. IF NO JOINTS ARE SHOWN, PROVIDE CONTROL JOINTS PER THE SPECS.
14. ALL COOLER SLABS TO SLOPE CONTINUOUSLY TO THE DOOR AS INDICATED ON THE FLOOR FINISH PLAN.
15. ALL PREP AREA, RESTROOM AND JANITOR ROOM SLABS TO SLOPE CONTINUOUSLY TO FLOOR DRAINS AS INDICATED ON THE FLOOR FINISH PLAN.
16. ALL COOLERS AND FREEZERS TO BE FINISHED WITH A BROOM FINISH. REVIEW WITH OWNER PRIOR TO INSTALLATION.

FINISH FLOOR SCHEDULE

SC	SEALED CONCRETE: 2 COAT CLEAR EPOXY @ COOLERS AND FREEZERS. SODIUM SILICATE CONCRETE SEALER @ STORAGE, MECHANICAL ROOMS, & EXTERIOR SLABS. PROVIDE HARD- TROWELED EPOXY FILLER @ ALL CONC. JOINTS IN PREP AREAS AND WALK-IN BOXES PRIOR TO APPLICATION OF FINISH.
PC	STAIN, GRIND AND POLISH CONCRETE WITH 6" RUBBER BASE, RE: SPECS AND DECOR FOR COLOR AND PATTERN
V	LUXURY VINYL PLANK FLOORING WITH 6" RUBBER BASE
M	ALUMINUM ENTRY MAT
QT	NON SLIP QUARRY TILE AND 1/2" SETTING BED WITH COVED TILE BASE. DAL TILE ASHEN GRAY 0103. PROVIDE RECESSED CONCRETE SLAB, RE: 13/A5.3
T	PORCELAIN TILE AND 1/2" SETTING BED WITH COVED TILE BASE. PROVIDE RECESSED CONCRETE SLAB, RE: 14/A5.3
T1	PORCELAIN TILE OVER THINSET MORTAR BED WITH COVED TILE BASE
	6" RUBBER BASE TYPICAL, UNO. 4" @ CHECKSTANDS AND MILLWORK

FINISH FLOOR KEYED NOTES

1. CART BUMPER, PROVIDED BY THE OWNER INSTALLED BY THE G.C. SEE DETAIL 16/A5.2.
2. FLOOR DRAIN, RE: PLUMBING AND 11/A5.3
3. TRENCH DRAIN, RE: PLUMBING
4. CONCRETE WALK, RE: CIVIL
5. 8" CONCRETE LOADING DOCK PAD AND TRASH COMPACTOR PAD, RE: CIVIL
6. COMPACTOR SKID, RE: 6/A0.3
7. ELECTRICAL DUCT, PROVIDE 4" CONCRETE SUB SLAB TO SUPPORT DUCT, RE: ELEC
8. REFRIGERATION TRENCH, RE: 7/A5.3, MECHANICAL, ELECTRICAL AND REFRIGERATION
9. SEALED CONCRETE CURB, SEE DETAILS ON A5.1
10. RECESSED SLAB AT BLAST CHILLER, COORDINATE EXACT CLEAR DIMENSIONS WITH EQUIPMENT CUT SHEET. CONTINUE QUARRY TILE DOWN SIDES AND BOTTOM OF RECESS.

SLAB LEGEND

- DEPRESSED SLAB @ FREEZERS, T.O. SLAB @ ELEVATION 99'-2". SEE DETAILS ON SHEET A5.1.
- RECESSED SLAB AT BLAST CHILLER, COORDINATE EXACT DIMENSIONS WITH EQUIPMENT CUT SHEET

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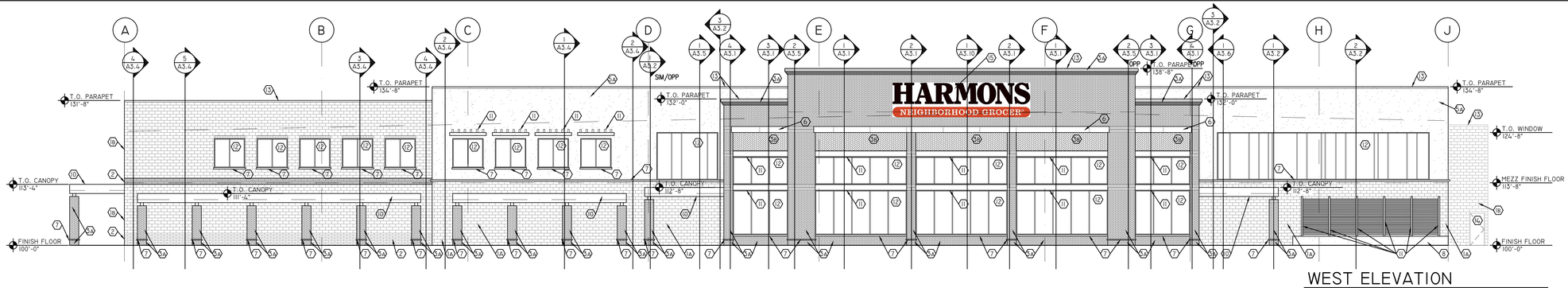
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DWG TYPE:
ARCHITECTURAL PHASE: BID SET

SHEET TITLE

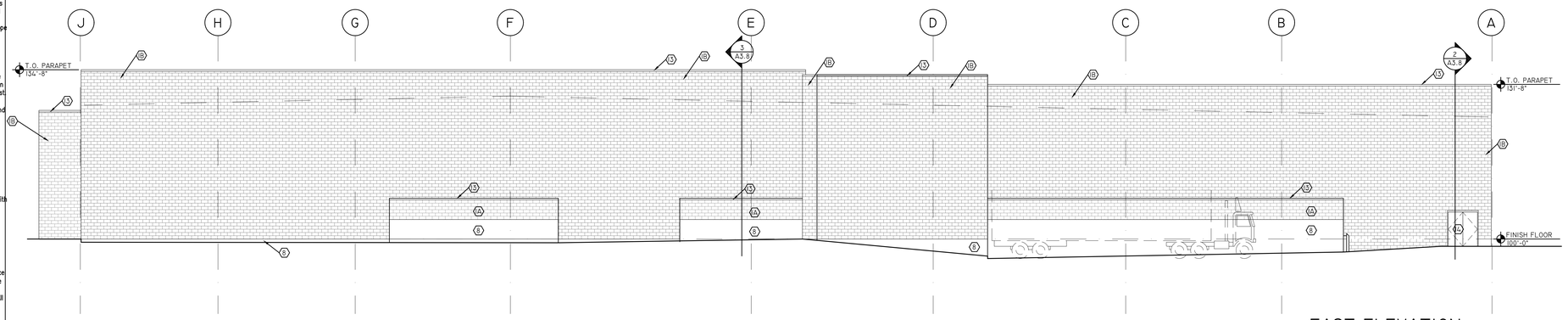
SECOND FLOOR FINISH PLAN

A1.5



WEST ELEVATION

SCALE: 3/32" = 1'-0"



EAST ELEVATION

SCALE: 3/32" = 1'-0"

BUILDING ENVELOPE COMPLIANCE NOTES

1. The building envelope shall be constructed in accordance with the requirements of the 2024 International Energy Conservation Code (IECC), the approved construction documents, and the approved COMcheck compliance report.
2. All insulation shall be installed in accordance with the manufacturer's installation instructions and IECC Section C303. Insulation shall be installed in substantial contact with the inside surface of the air barrier and shall completely fill cavities without gaps, voids, compression, or misalignment.
3. The building thermal envelope shall be continuous. Insulation shall be continuous across joints, intersections, corners, and transitions between assemblies. Thermal bridges shall be minimized as detailed on the drawings.
4. A continuous air barrier shall be provided around the entire conditioned building envelope in accordance with IECC Section C303.2. Air barrier materials shall be continuous and durable, with all seams, joints, penetrations, transitions, and openings sealed.
5. All penetrations through the building envelope, including piping, conduit, ductwork, structural members, fasteners, and supports, shall be sealed with approved materials compatible with the air barrier system.
6. Exterior windows, storefront systems, glazed doors, curtain walls, skylights, and opaque doors shall have U-factors and SHGC values equal to or better than those identified in the approved COMcheck report. Manufacturer certification shall be provided upon request.
7. Exterior fenestration shall be installed in accordance with the manufacturer's instructions. Perimeters shall be sealed to maintain the continuity of the air barrier and weather-resistive barrier.
8. Roof insulation shall be installed continuously over the roof deck unless otherwise detailed. Insulation joints shall be tightly butted, staggered where multiple layers are used, and protected from moisture during construction.
9. Wall insulation shall be installed continuously as indicated on the drawings. Exterior continuous insulation shall remain continuous around corners, structural elements, and openings except where specifically detailed otherwise.
10. Recesses, chases, soffits, utility spaces, and similar concealed construction located within the building thermal envelope shall be insulated and air sealed to maintain continuity of the envelope.
11. Loading dock doors, overhead doors, and other large operable openings shall comply with the insulation and air leakage requirements of the approved energy compliance documentation.
12. Weatherstripping shall be installed on all operable exterior doors and windows. Door sweeps and threshold seals shall be installed where required to minimize air leakage.
13. Contractor shall coordinate all envelope components, including structural, mechanical, plumbing, electrical, refrigeration, and fire protection systems, to maintain continuous insulation and air barrier integrity.
14. Any field modifications affecting the building envelope or energy compliance shall be submitted to the Architect for review prior to installation. Modifications shall not reduce the building's energy performance below that demonstrated in the approved compliance documentation.
15. Refrigeration piping penetrations through exterior walls and roofs shall be minimized. All penetrations shall be flashed, insulated, and permanently sealed to maintain the continuity of the air barrier, weather barrier, and thermal insulation. Coordination between the refrigeration contractor and the general contractor is required prior to installation.

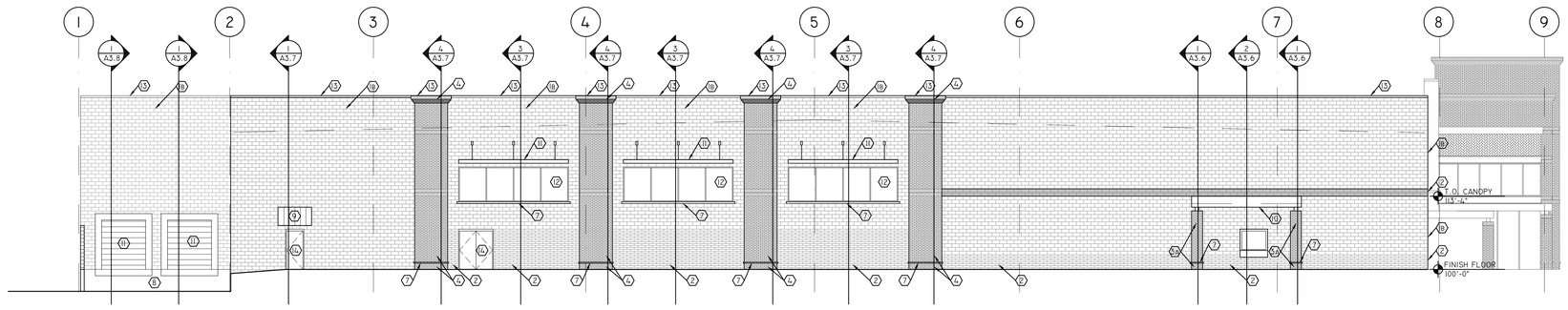
PARAPET THERMAL CONTINUITY:
at exterior walls, provide 3" hunter xci 286 polyisocyanurate insulation, with an r-value equivalent to the adjacent continuous wall insulation extending a minimum of 2'-0" horizontally inward from the top of the wall along the underside of the roof deck, in accordance with 2024 iecc section c402.7.5, item 3. maintain continuity of the thermal and air barrier assemblies at the roof-to-wall transition. install with exposed approved facing toward interior in accordance with manufacturer's nfpa 286 tested assembly and installation requirements.

MATERIAL SCHEDULE

MARK	MATERIAL	FINISH/COLOR
1A	8" X 16" SPLIT FACE CMU	SUNROC – CREAM
1B	8" X 16" SPLIT FACE CMU	SUNROC – BLACK
2	4" HONED FACE CMU	SUNOC – CREAM
3A	4" ATTACHED BRICK VENEER	BRICK COLOR 1 – MONTEREY
3B	4" ATTACHED BRICK VENEER, HERRINGBONE PATTERN	BRICK COLOR 2 – CREAM
4	2.25" X 16" ATLAS BRICK	BRICK COLOR 1 – MONTEREY
5A	EIFS COLOR 1	COLOR 1
5B	EIFS COLOR 2	COLOR 2
6	PRECAST CONCRETE HEADER	NATURAL
7	PRECAST CONCRETE SILL	NATURAL
8	ARCHITECTURAL FINISH CONCRETE FOUNDATION	NATURAL
9	PREFINISHED STRUCTURAL STANDING SEAM METAL ROOFING.	DARK BRONZE
10	PREFINISHED METAL CANOPY	DARK BRONZE
11	PAINTED STEEL	MATCH DARK BRONZE
12	GLASS AND ALUMINUM STOREFRONT, RE: WINDOW AND DOOR SCHEDULE	DARK BRONZE
13	PREFINISHED METAL COPING	DARK BRONZE
14A	PAINTED HM DOOR AND FRAME	MATCH DARK BRONZE
15	SIGNAGE PROVIDED AND INSTALLED BY OWNER. G.C. TO PROVIDE ELECTRICAL CONNECTIONS, RE: ELECTRICAL. G.C. TO PROVIDE ANCHORAGE FOR SIGNAGE. G.C. TO PROVIDE CORE DRILLED HOLES THROUGH MASONRY FOR CONDUIT FROM J BOXES MOUNTED AT THE INTERIOR OF THE BUILDING. COORDINATE NUMBER AND LOCATION WITH SIGNAGE SUPPLIER.	–

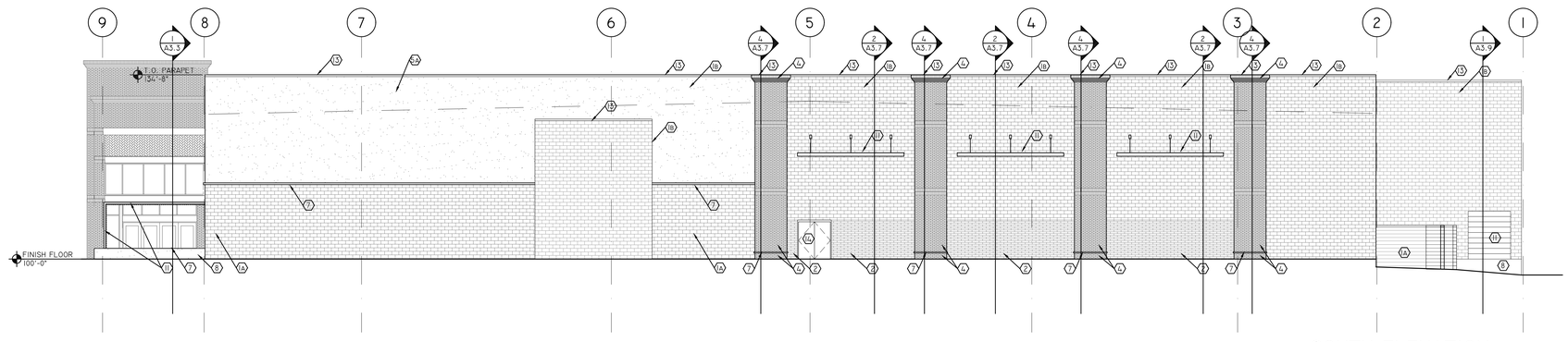
EXTERIOR ELEVATION NOTES:

1. ALL COLOR SELECTIONS ARE PRELIMINARY. G.C. TO VERIFY FINAL COLOR SELECTIONS WITH ARCHITECT AND OWNER PRIOR TO ORDERING.
2. ALL EXPOSED STEEL TO BE PAINTED AS DESCRIBED IN SPEC., VERIFY COLOR WITH ARCHITECT AND OWNER.
3. UNDERSIDE OF PREFINISHED METAL STANDING SEAM ROOFING TO BE PAINTED WHERE EXPOSED TO VIEW. VERIFY COLOR WITH ARCHITECT AND OWNER.
4. PROVIDE MASONRY CONTROL JOINTS AS SHOWN, RE: 7/A5.2.
5. PROVIDE COLORED MORTAR AT CMU AND BRICK. COLOR TO BE SELECTED BY THE ARCHITECT FROM THE MANUFACTURERS FULL LINE OF COLORS.
6. SEE DETAIL 13/A5.4 FOR BRICK VENEER ATTACHMENT INFORMATION.
7. SEE DETAIL 14/A5.4 FOR BRICK EXPANSION AND CONTROL JOINT INFORMATION.
8. ALL EXTERIOR FLASHING TO BE PREFINISHED.
9. PRECAST CONCRETE HEADER LENGTHS TO BE 8'-0" TYP. PIECES TO BE CENTERED ON OPENING. SEE JOINT LOCATIONS INDICATED ON EXTERIOR ELEVATIONS



NORTH ELEVATION

SCALE: 3/32" = 1'-0"



SOUTH ELEVATION

SCALE: 3/32" = 1'-0"

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STATE OF UTAH
KRISTEN IRELAND VOROS
No. 7557079-0301
LICENSED ARCHITECT

HARMONS
SPANISH FORK

2643 East 400 North
Spanish Fork, Utah

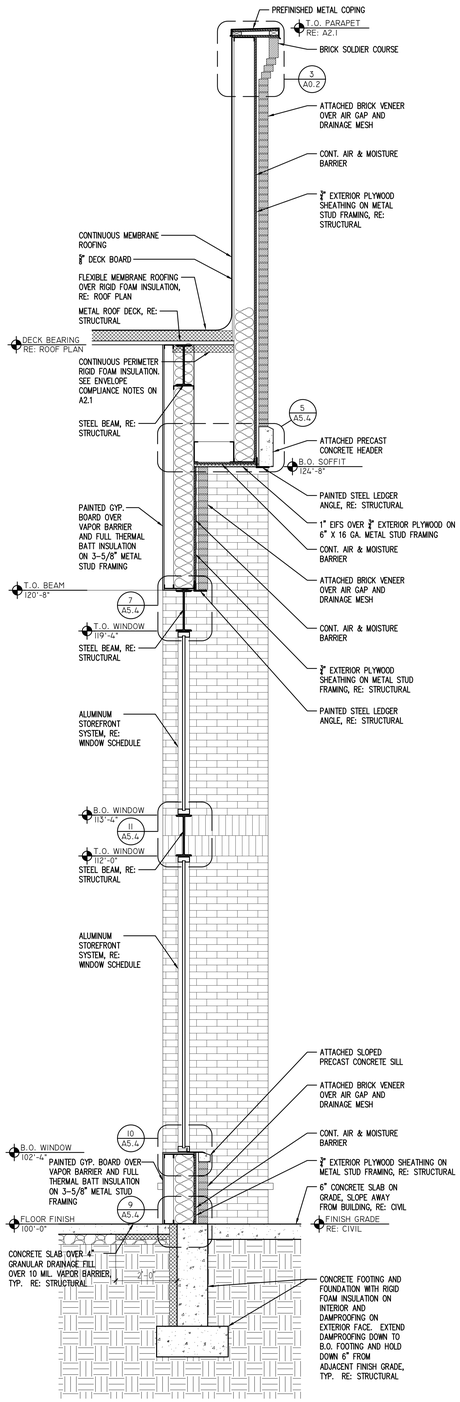
MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 14, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
CAD DWG FILE NO:
DRAWN BY:
DESIGNED BY:
DWG TYPE:
ARCHITECTURAL PHASE: BID SET

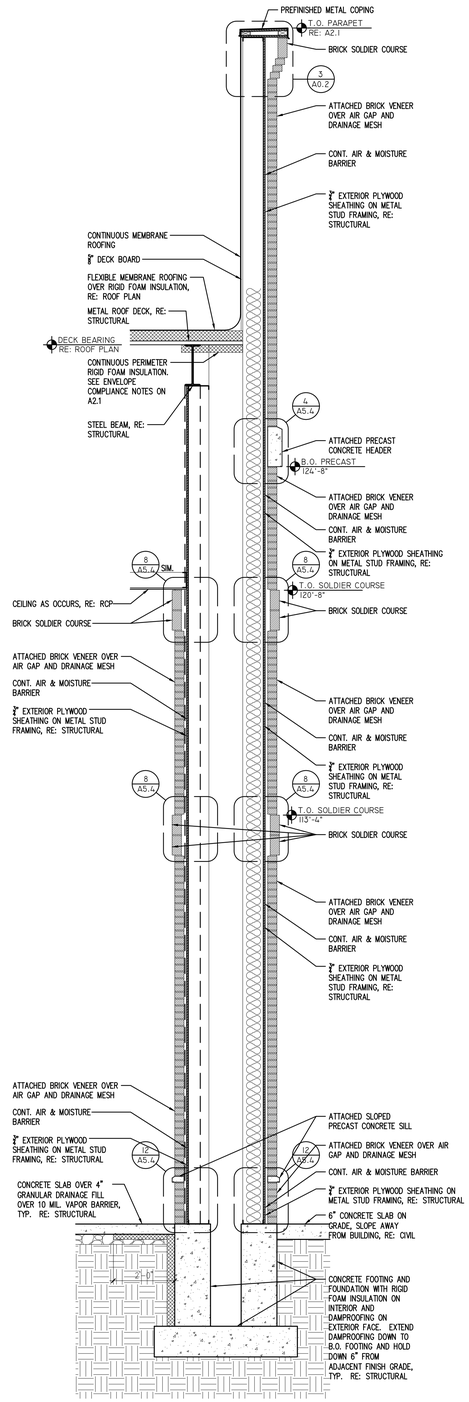
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EXTERIOR ELEVATIONS

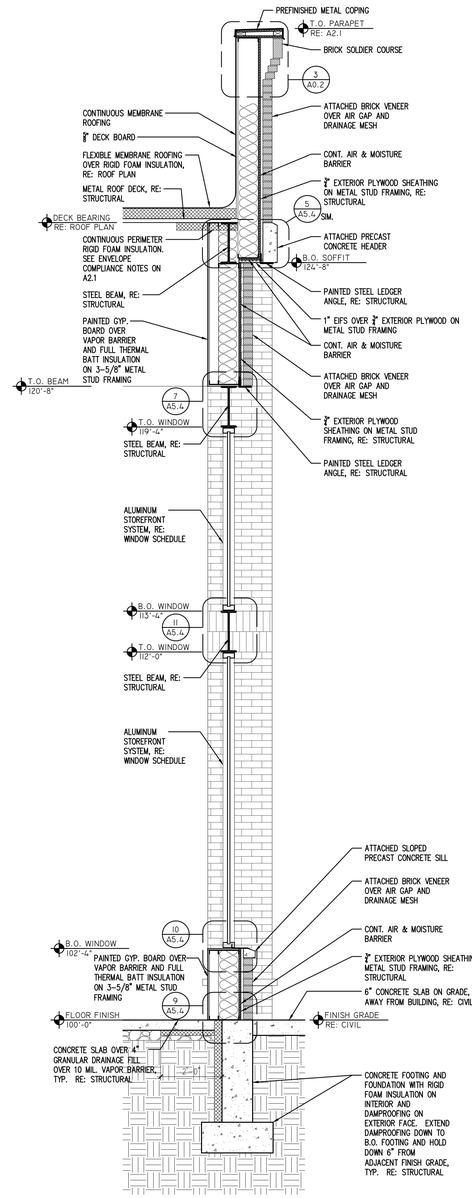
A2.1



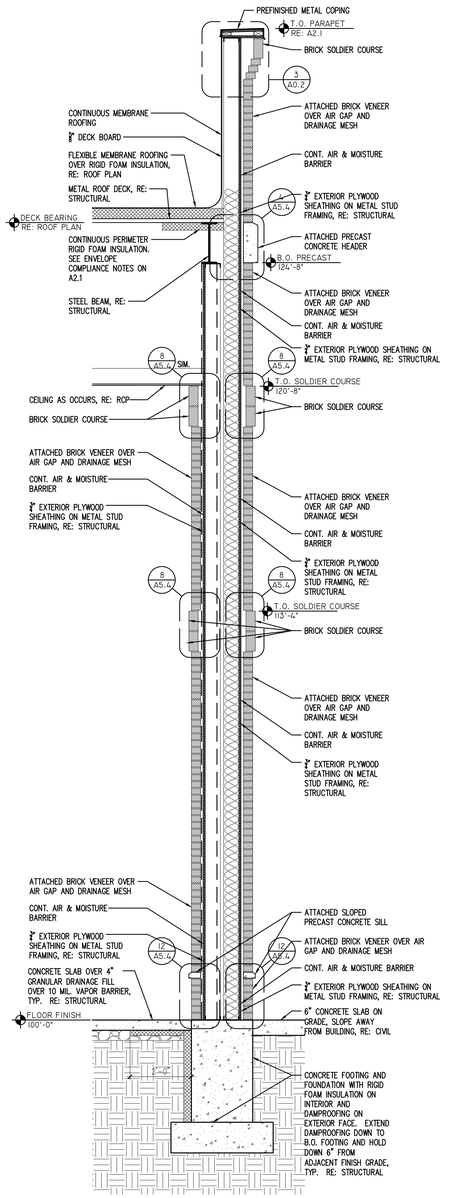
1 WALL SECTION
SCALE: 1/2" = 1'-0"



2 WALL SECTION
SCALE: 1/2" = 1'-0"



3 WALL SECTION
SCALE: 1/2" = 1'-0"



4 WALL SECTION
SCALE: 1/2" = 1'-0"

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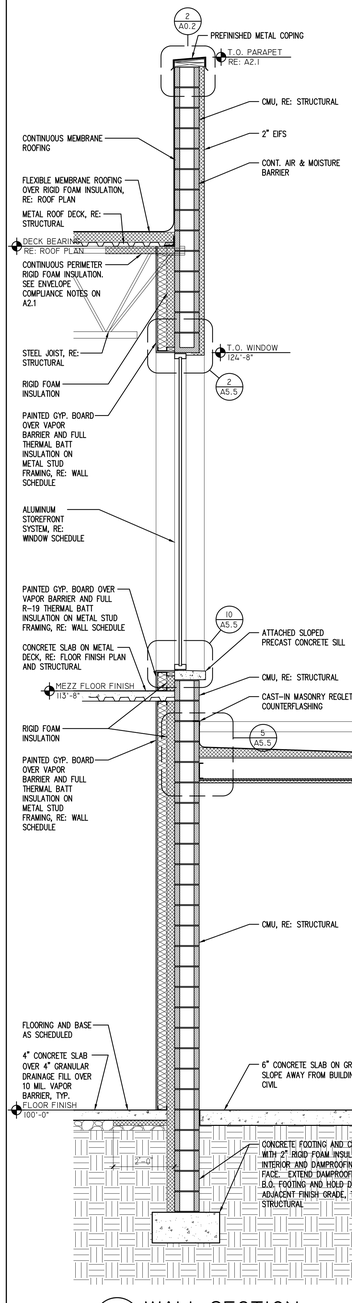
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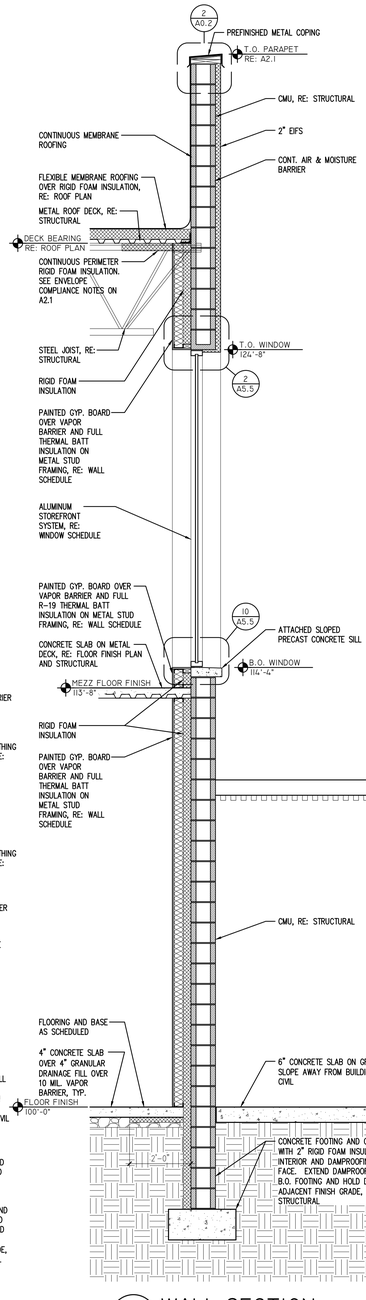
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WALL SECTIONS

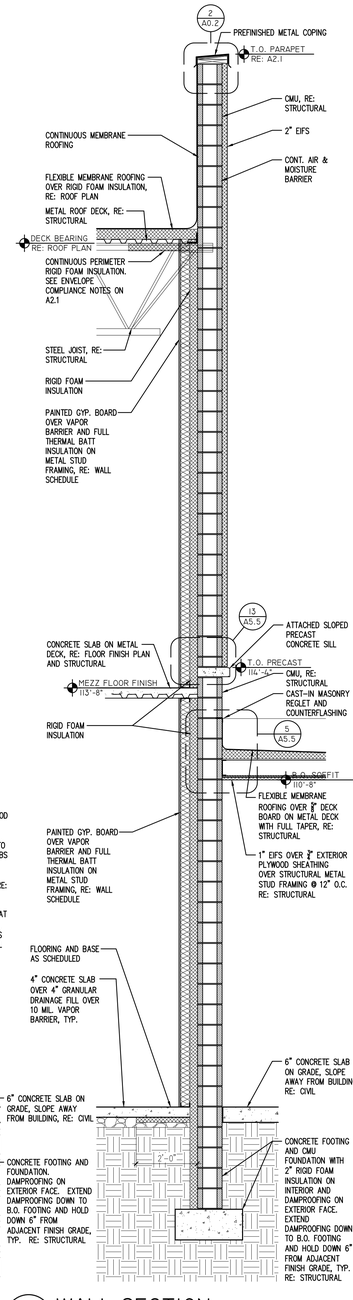
A3.1



1 WALL SECTION
SCALE: 1/2" = 1'-0"



2 WALL SECTION
SCALE: 1/2" = 1'-0"



3 WALL SECTION
SCALE: 1/2" = 1'-0"

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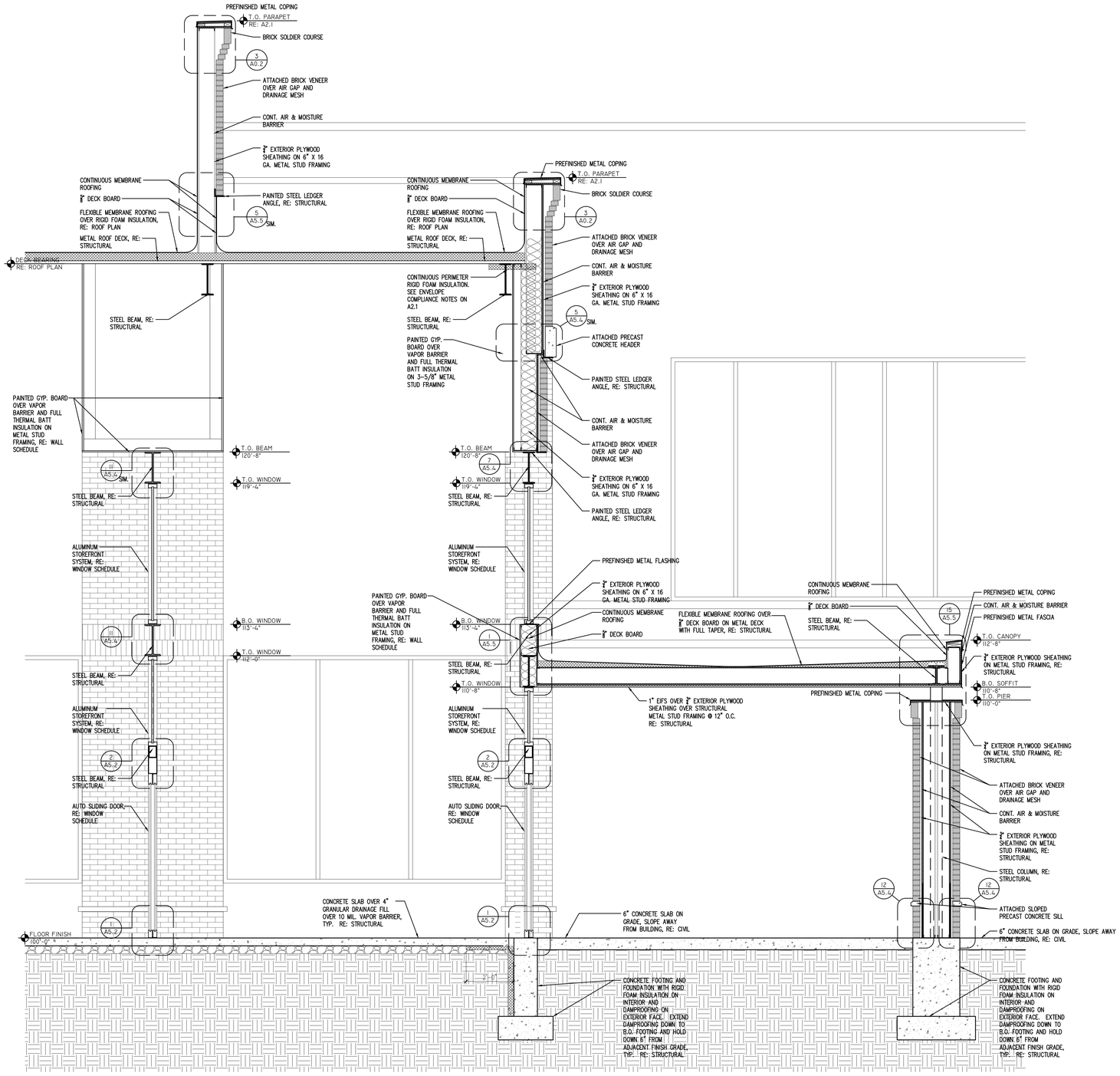
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DESIGNED BY:
DWG TYPE:
ARCHITECTURAL PHASE: BID SET

SHEET TITLE

WALL SECTIONS

A3.2



I WALL SECTION
SCALE: 1/2" = 1'-0"

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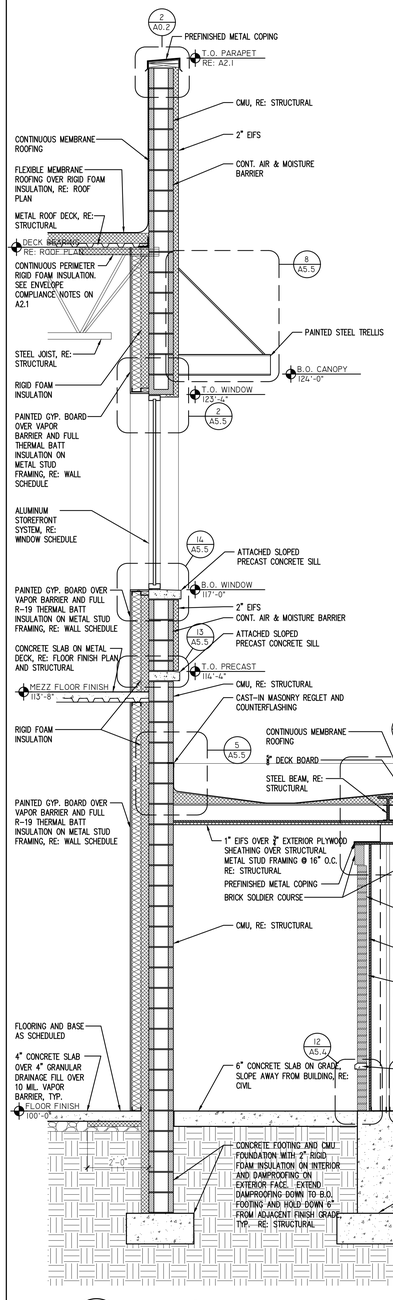
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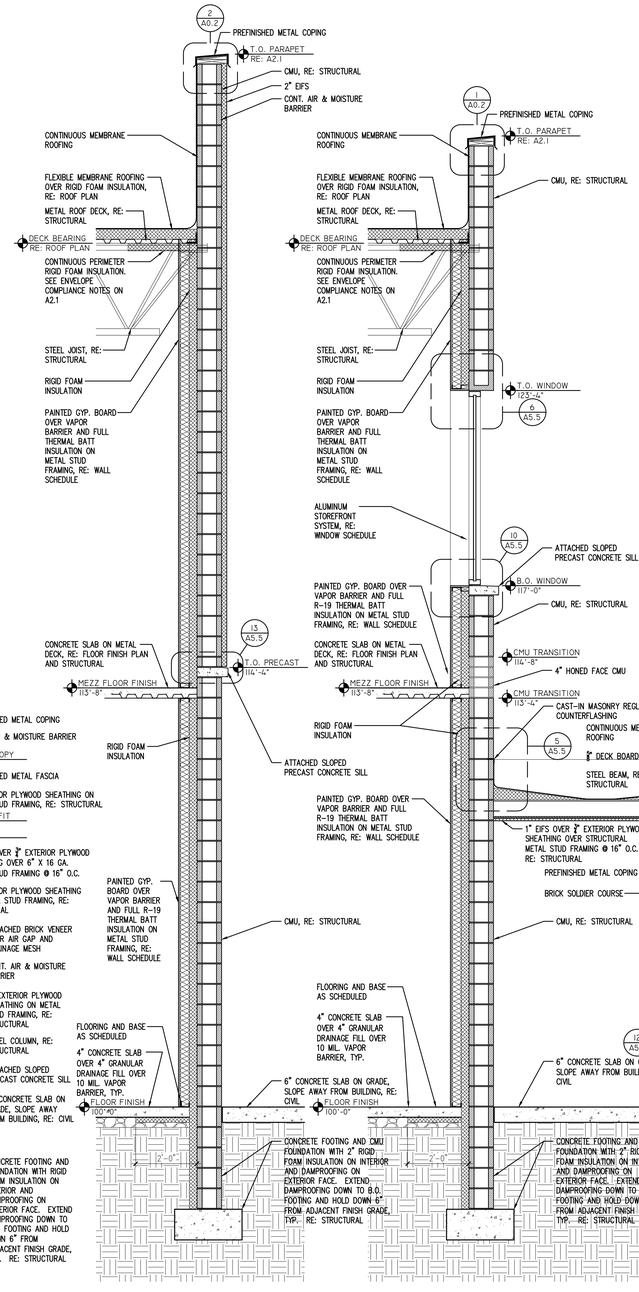
SHEET TITLE

WALL SECTIONS

A3.3

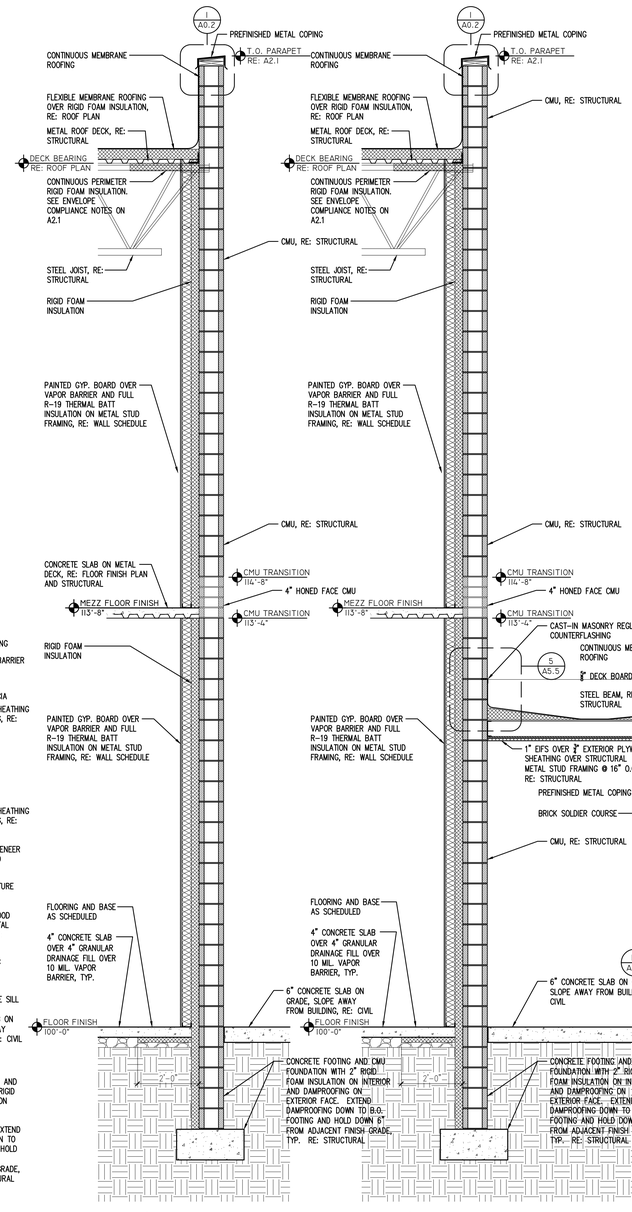


1 WALL SECTION
SCALE: 1/2" = 1'-0"



2 WALL SECTION
SCALE: 1/2" = 1'-0"

3 WALL SECTION
SCALE: 1/2" = 1'-0"



4 WALL SECTION
SCALE: 1/2" = 1'-0"

5 WALL SECTION
SCALE: 1/2" = 1'-0"

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Spanish Fork, Utah

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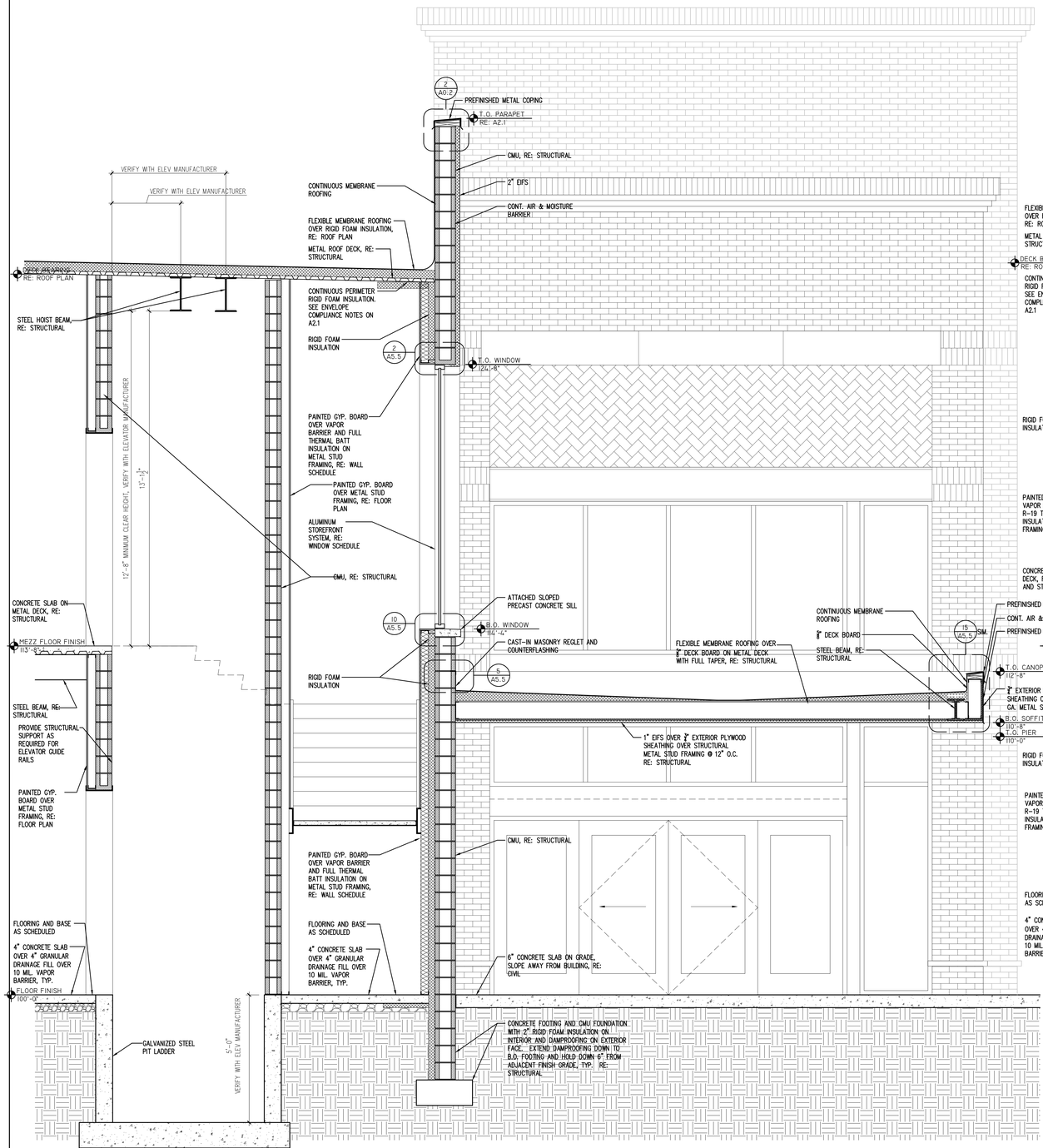
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DWG TYPE:
ARCHITECTURAL PHASE: BID SET

SHEET TITLE

WALL SECTIONS

A3.4

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1 WALL SECTION
SCALE: 1/2" = 1'-0"

2 WALL SECTION
SCALE: 1/2" = 1'-0"

HARMONS
SPANISH FORK

2643 East 400 North
Spanish Fork, Utah

MARK	DATE	DESCRIPTION

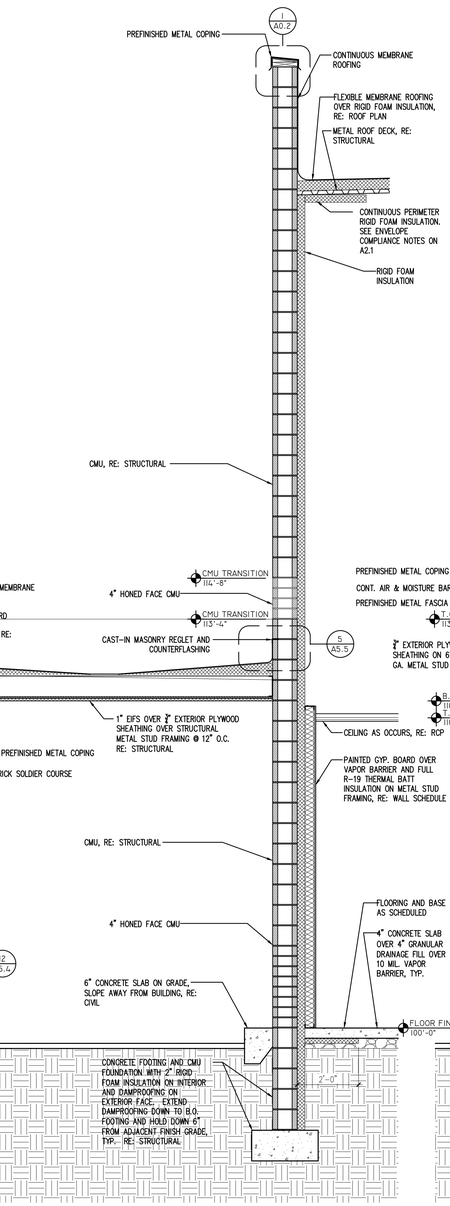
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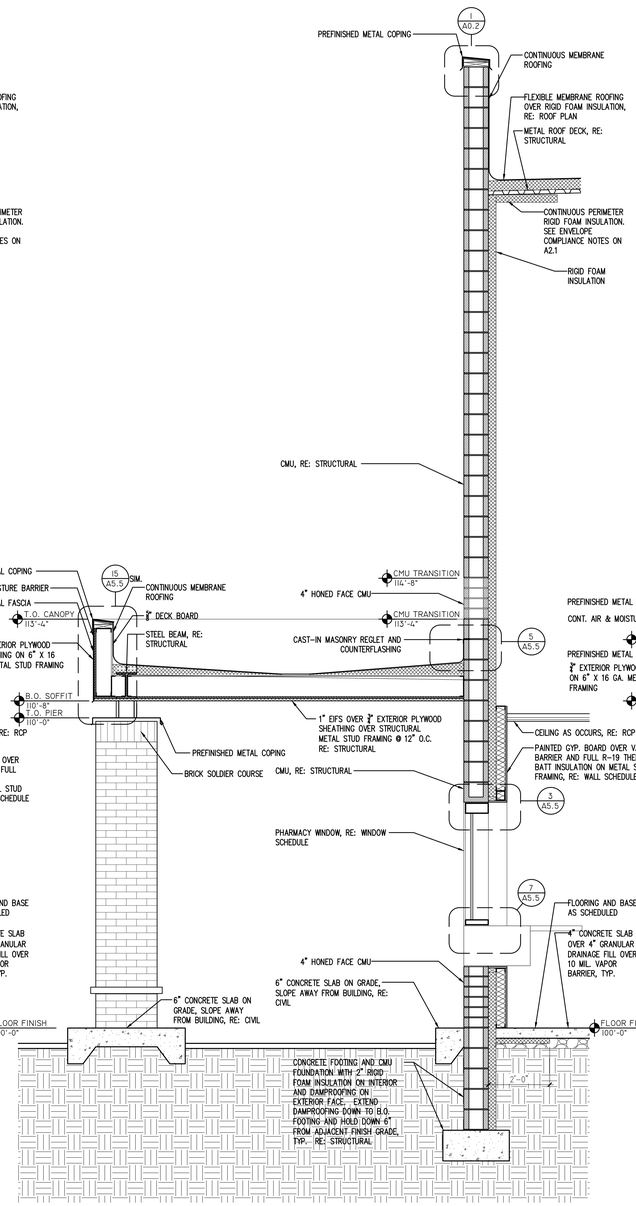
WALL SECTIONS

A3.5

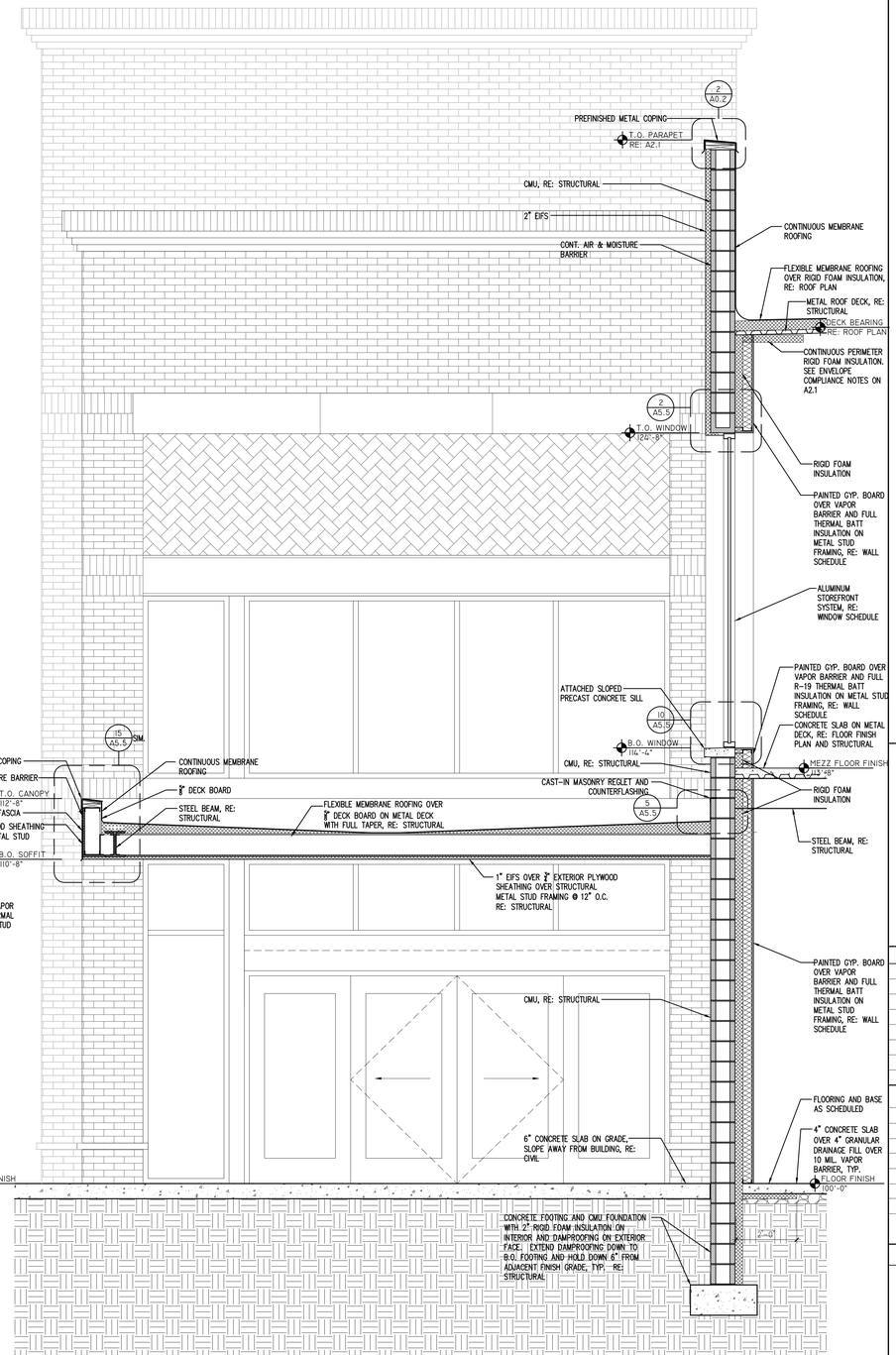
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1 PHARMACY CANOPY SECTION
SCALE: 1/2" = 1'-0"



2 PHARMACY CANOPY SECTION
SCALE: 1/2" = 1'-0"



3 WALL SECTION
SCALE: 1/2" = 1'-0"

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No. 7557079-0301
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HARMONS SPANISH FORK

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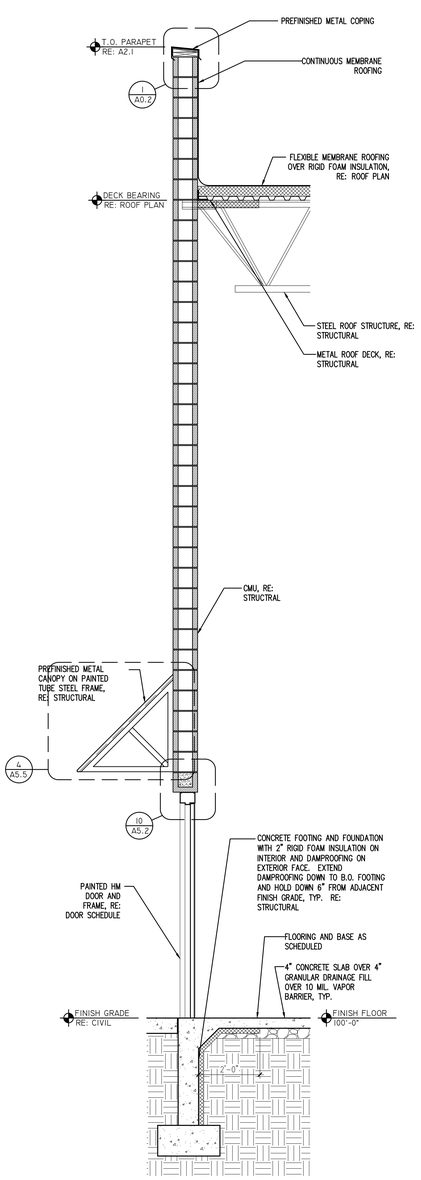
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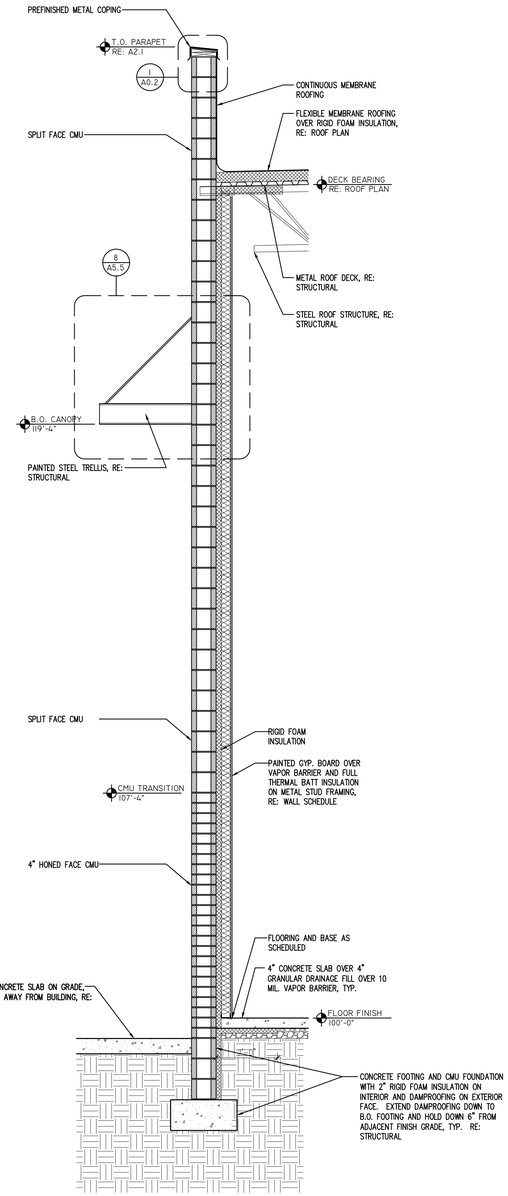
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WALL SECTIONS

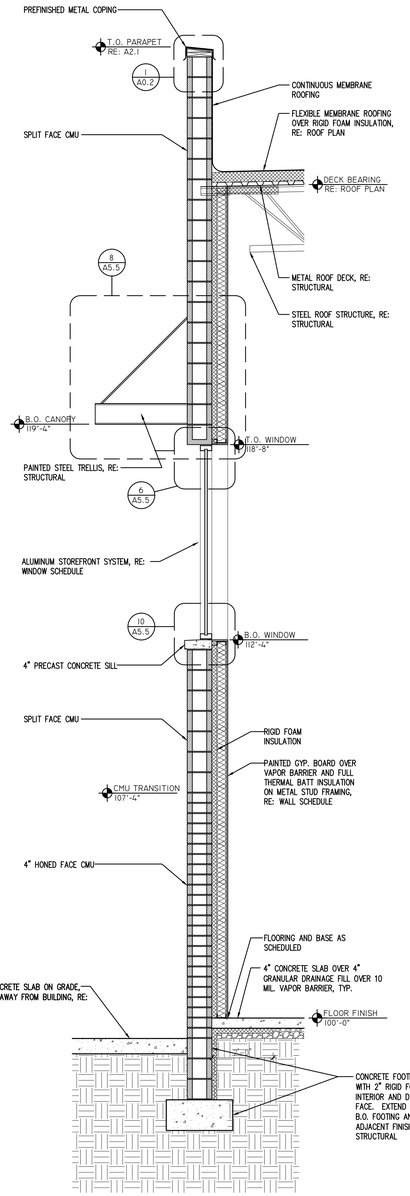
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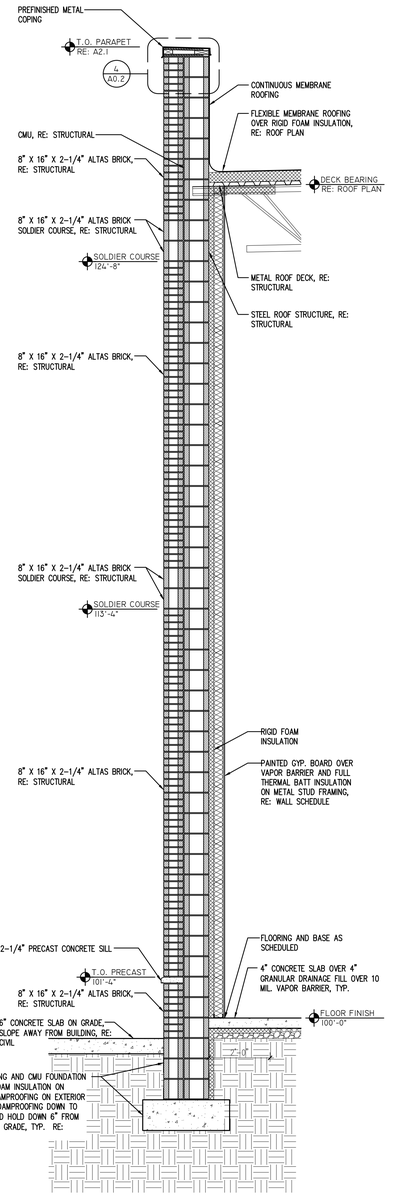
1 ECOMM DOOR
SCALE: 1/2" = 1'-0"



2 SIDE CANOPY SECTION
SCALE: 1/2" = 1'-0"



3 SIDE CANOPY SECTION
SCALE: 1/2" = 1'-0"



4 SIDE PIER SECTION
SCALE: 1/2" = 1'-0"

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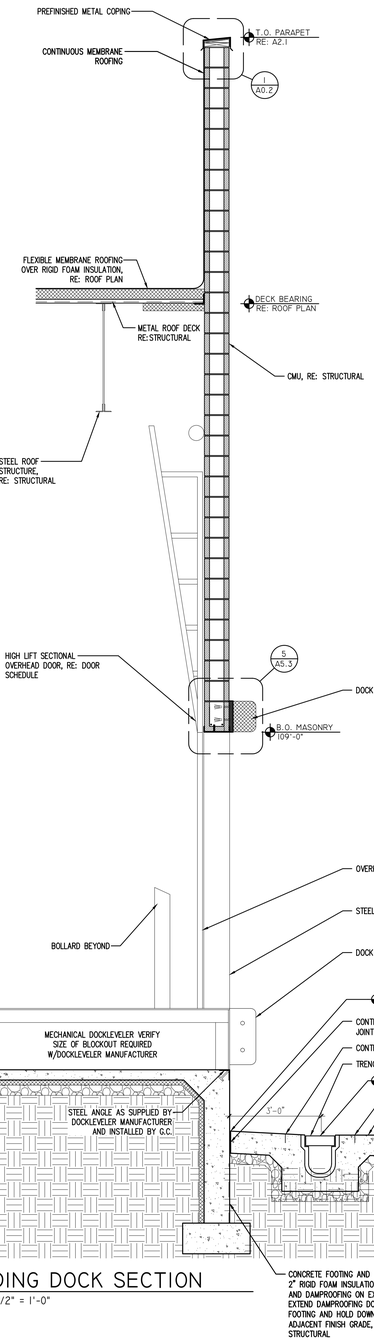
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SHEET TITLE

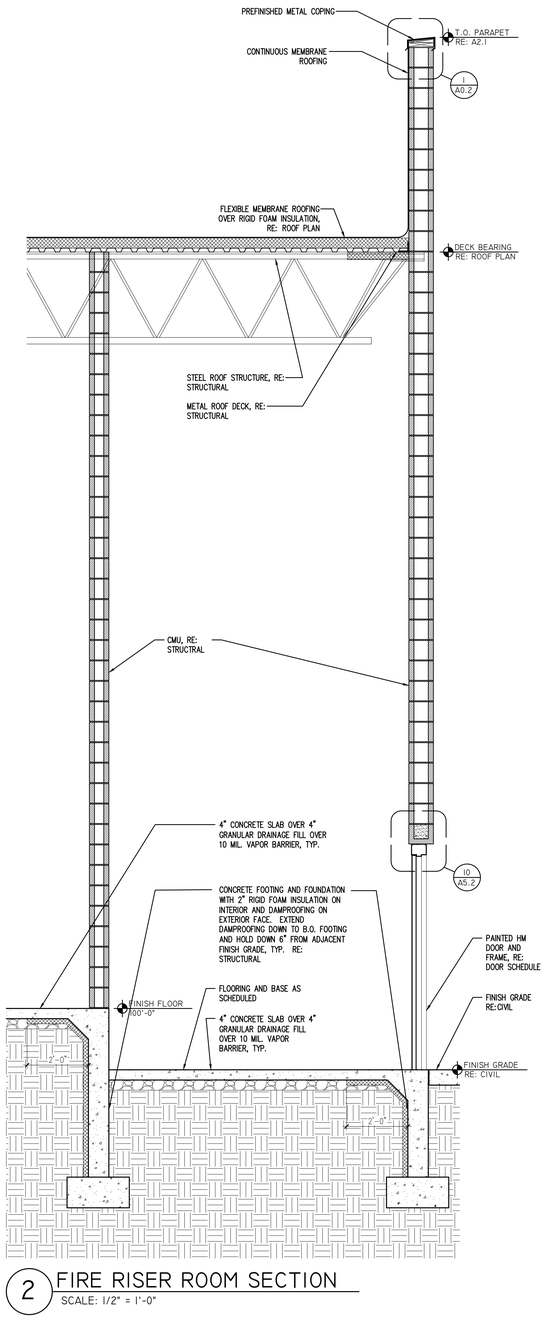
WALL SECTIONS

A3.7

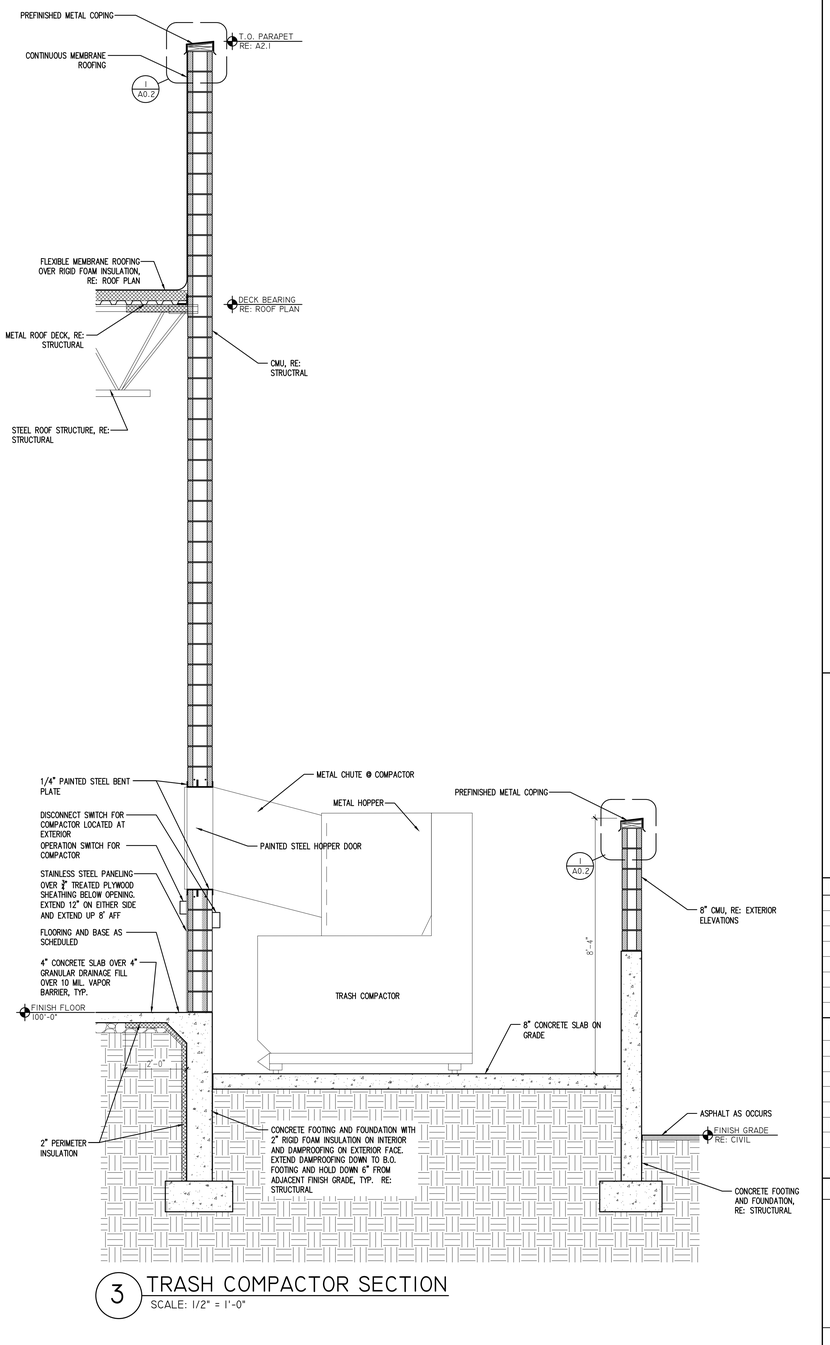
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1 LOADING DOCK SECTION
SCALE: 1/2" = 1'-0"



2 FIRE RISER ROOM SECTION
SCALE: 1/2" = 1'-0"



3 TRASH COMPACTOR SECTION
SCALE: 1/2" = 1'-0"

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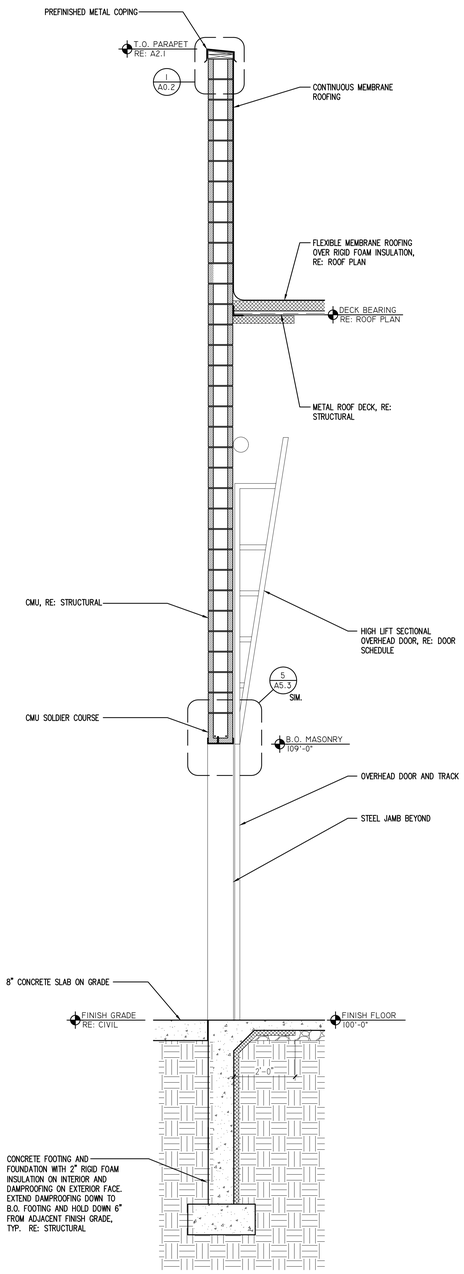
MARK	DATE	DESCRIPTION

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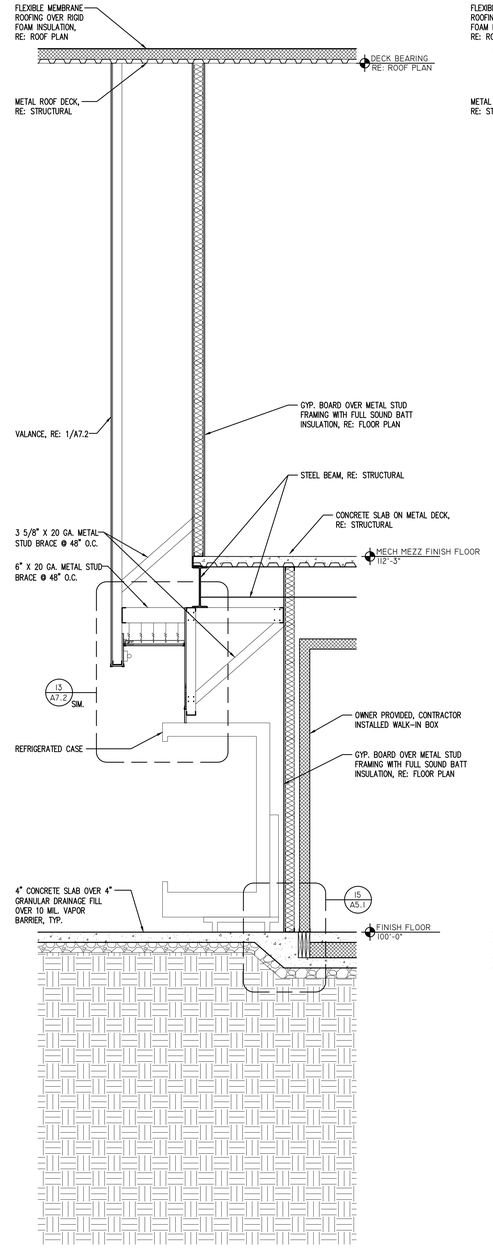
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WALL SECTIONS

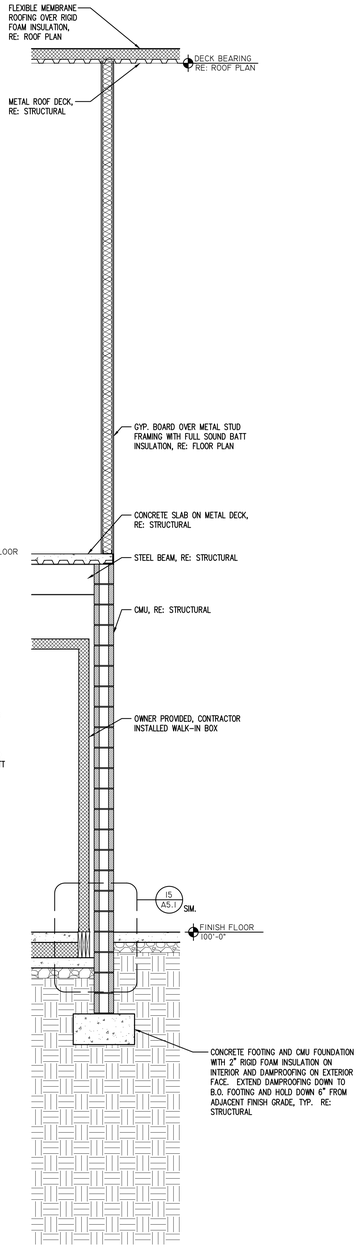
A3.8



1 LOADING DOCK SECTION
SCALE: 1/2" = 1'-0"



3 MECHANICAL MEZZANINE SECTION
SCALE: 1/2" = 1'-0"



4 MECHANICAL MEZZANINE SECTION
SCALE: 1/2" = 1'-0"

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HARMONS
SPANISH FORK

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Spanish Fork, Utah

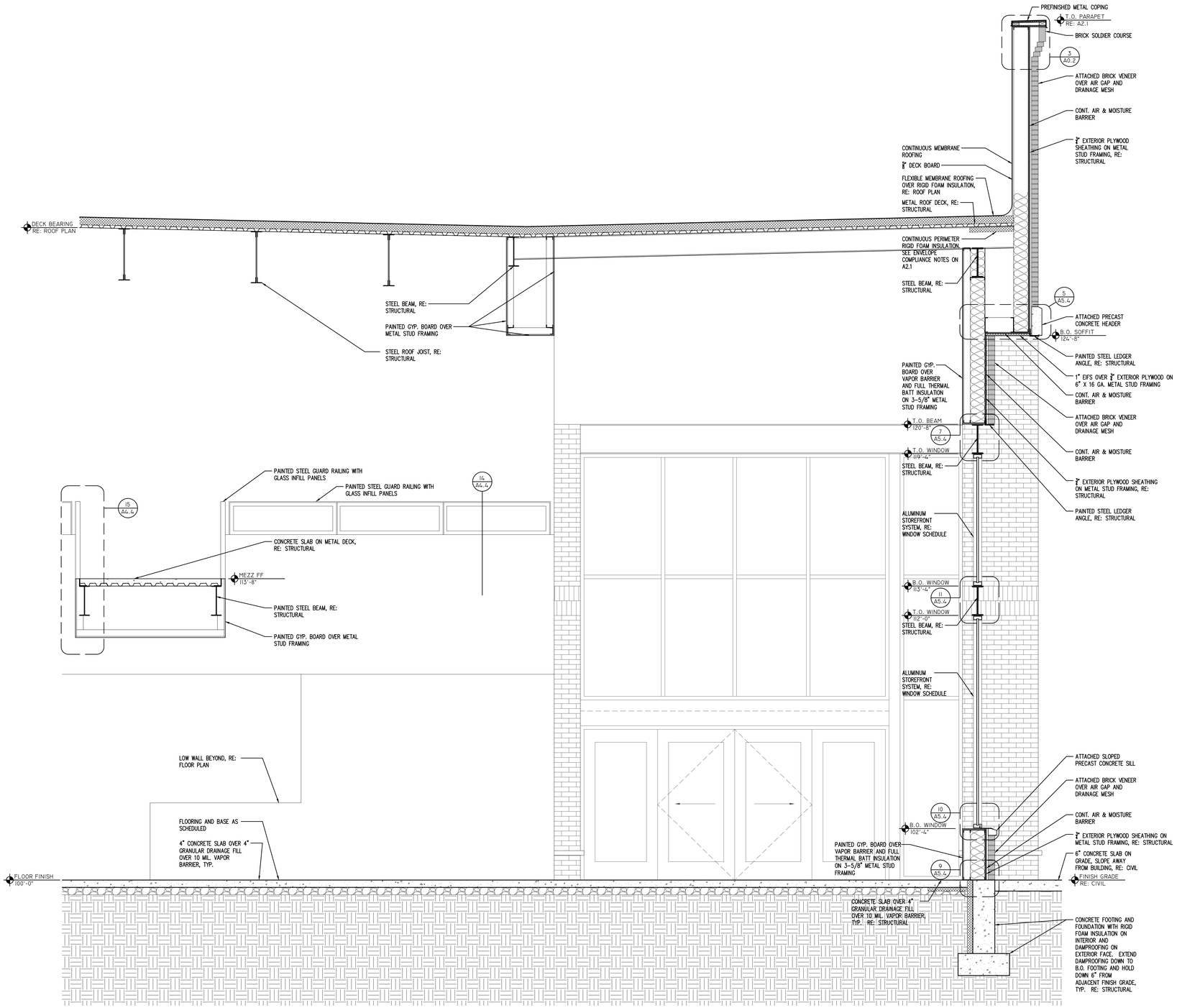
MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 14, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
CAD DWG FILE NO:
DRAWN BY:
DESIGNED BY:
DWG TYPE:
ARCHITECTURAL PHASE: BID SET

SHEET TITLE

WALL SECTIONS

A3.9



1 WALL SECTION
SCALE: 1/2" = 1'-0"

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LICENSED ARCHITECT

HARMONS
SPANISH FORK

2643 East 400 North
Spanish Fork, Utah

MARK	DATE	DESCRIPTION

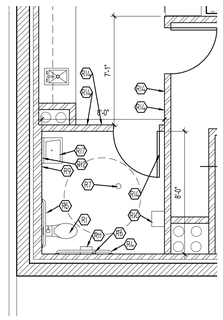
DATE: SEPTEMBER 14, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
CAD DWG FILE NO:
DRAWN BY:
DESIGNED BY:
DWG TYPE:
ARCHITECTURAL PHASE: BID SET

SHEET TITLE

WALL SECTIONS

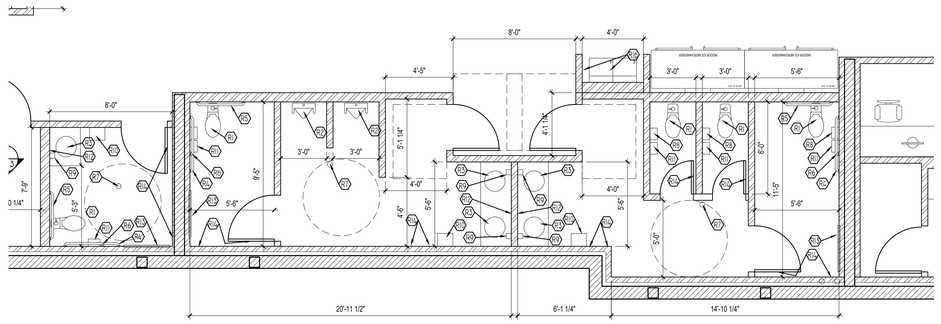
A3.10

WALL FINISH:
FULL HEIGHT FRP
6" RUBBER BASE



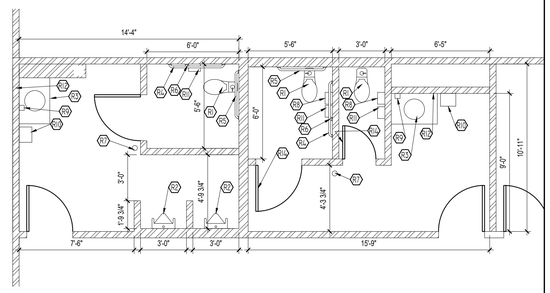
1 RX RESTROOM PLAN
SCALE: 1/4" = 1'-0"

WALL FINISH:
SEE TYPICAL DETAIL 10/A4.1



2 FIRST FLOOR RESTROOM PLANS
SCALE: 1/4" = 1'-0"

WALL FINISH:
SEE TYPICAL DETAIL 10/A4.1



4 MEZZANINE RESTROOM PLANS
SCALE: 1/4" = 1'-0"

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STATE OF UTAH
KRISTEN IRELAND VOROS
No. 7557079-0301
LICENSED ARCHITECT

RESTROOM KEYED NOTES

(W1) WATER CLOSET
(W2) URINAL
(W3) COUNTERTOP AND UNDERCOUNTER MOUNT SINKS, RE: PLUMBING AND 15/A4.1
(W4) 42" GRAB BAR
(W5) 36" GRAB BAR
(W6) 18" GRAB BAR
(W7) FLOOR DRAIN, SLOPE FLOOR AS INDICATED ON FLOOR FINISH PLAN, RE: PLUMBING
(W8) SANITARY NAPKIN DISPOSAL
(W9) SOAP DISPENSER, BY OWNER
(W10) ELECTRIC HAND DRYER, RE: ELECTRICAL.
(W11) TOILET PAPER DISPENSER, BY OWNER
(W12) 1/4" PLATE GLASS MIRROR WITH STAINLESS STEEL FRAME (30" WIDE X 60" TALL AT SINGLE SINKS. 66" WIDE X 60" TALL AT DOUBLE SINKS)
(W13) STAINLESS STEEL RECESSED BABY CHANGING STATION
(W14) COAT HOOK
(W15) MOP SINK AND MOP RACK
(W16) HIGH/LO DRINKING FOUNTAIN WITH REMOTE CHILLER
(W17) WALL MOUNT LAVATORY

NOTES:
1. REFER TO DETAIL 13/A4.1 FOR MOUNTING STANDARDS
2. PROVIDE DENSSHIELD SHEATHING BEHIND WALL TILE.
3. THE TOILET FLASH CONTROLS AREA TO BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET.
4. ADA STALL DOORS TO HAVE A SELF CLOSING HINGE AND A PULL ON BOTH SIDES OF THE DOOR.

WALL TILE IN RESTROOMS IS AS FOLLOWS:

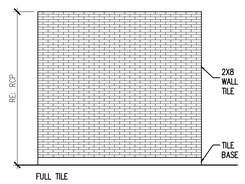
6X12 BULLNOSE BASE: DAL TILE DIAMANTE ARDESIA P027 POLISHED.

12X24 FLOOR TILE: DAL TILE DIAMANTE ARDESIA P027 POLISHED.

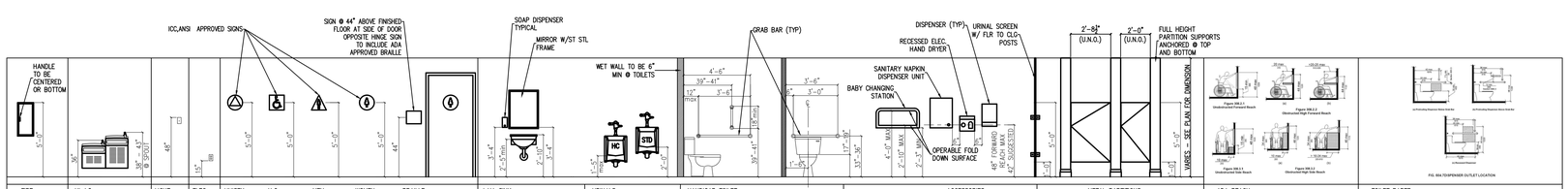
2X8 WALL TILE: DAL TILE MODERN DIMENSIONS – MATTE ARCTIC WHITE 0790

PROVIDE STAINLESS STEEL SCHLUTER TRIM STRIPS AT ALL TILE TRANSITIONS

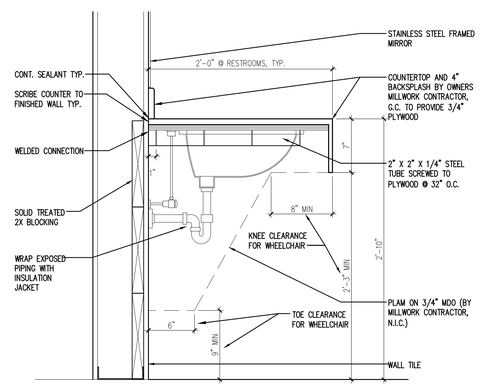
9 KEYED NOTES
NTS



10 TYPICAL TILE ELEVATIONS
NTS



13 MOUNTING STANDARDS
SCALE: NTS



15 LAVATORY AND VANITY DETAIL
SCALE: 1-1/2" = 1'-0"

HARMONS
SPANISH FORK

2643 East 400 North
Spanish Fork, Utah

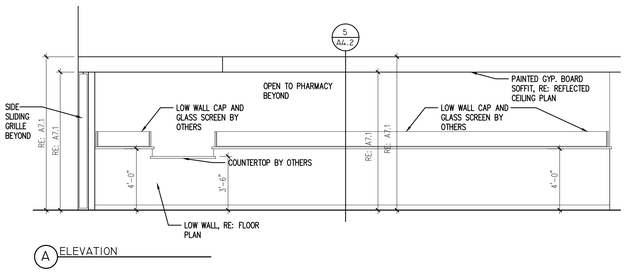
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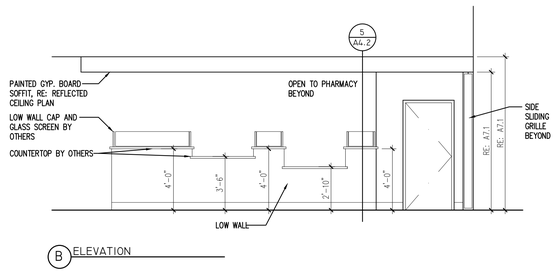
SHEET TITLE

RR PLANS, ELEVS AND DETAILS

A4.1



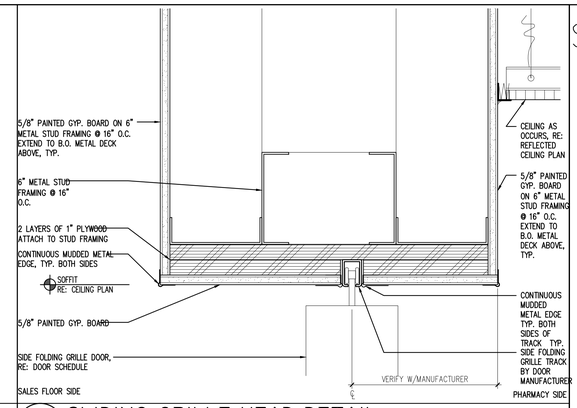
A ELEVATION



B ELEVATION

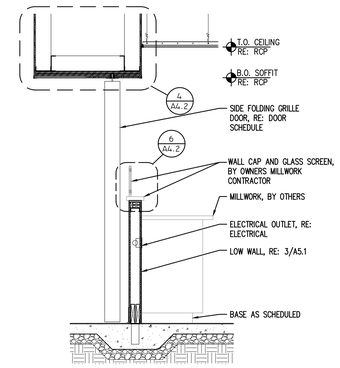
1 PHARMACY ELEVATION

SCALE: 1/4" = 1'-0"



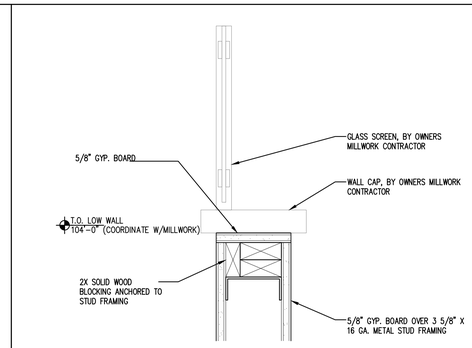
4 SLIDING GRILLE HEAD DETAIL

SCALE: 3" = 1'-0"



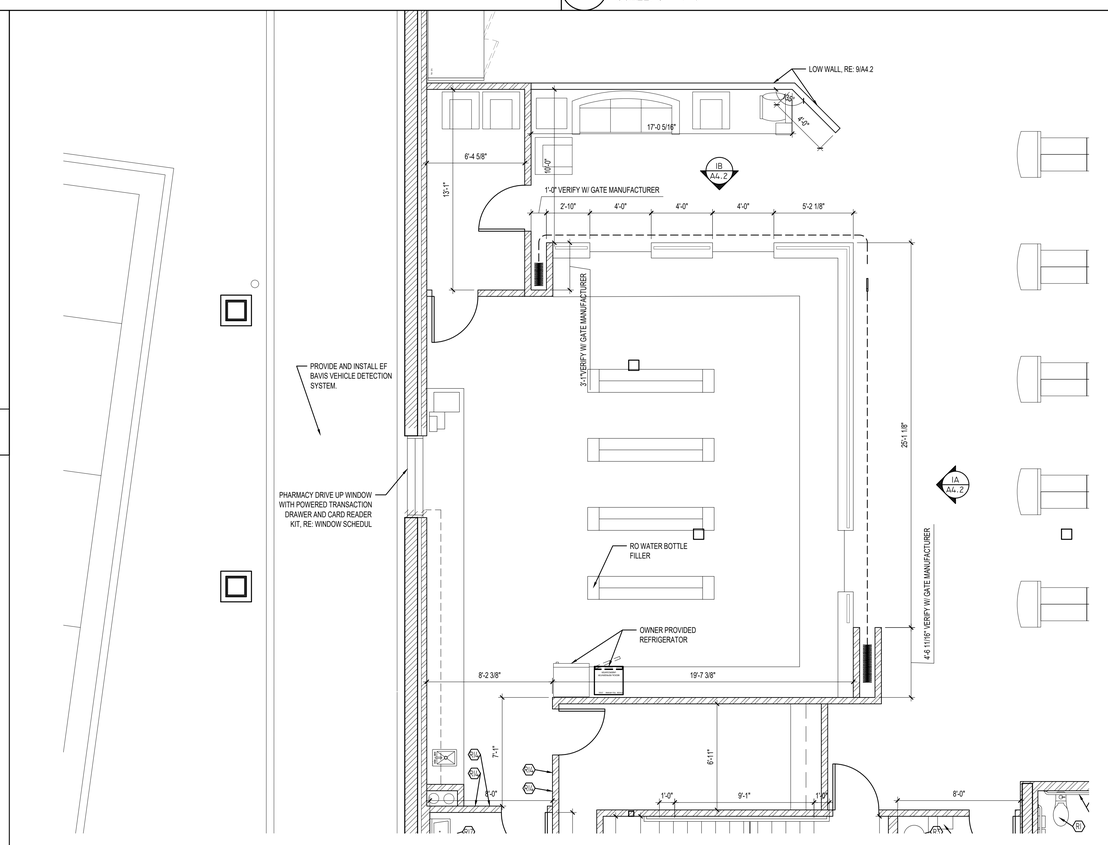
5 PHARMACY WALL SECTION

SCALE: 1/2" = 1'-0"



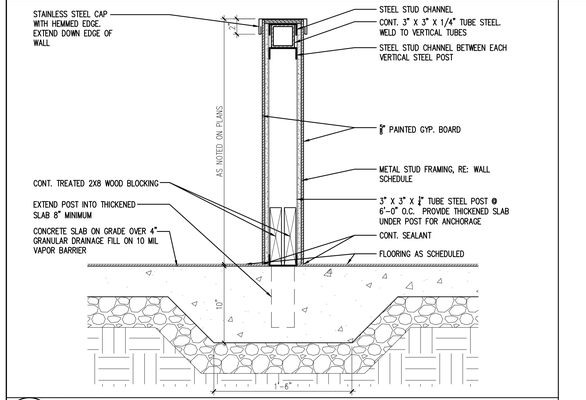
6 LOW WALL CAP @ PHARMACY

SCALE: 3" = '-0"



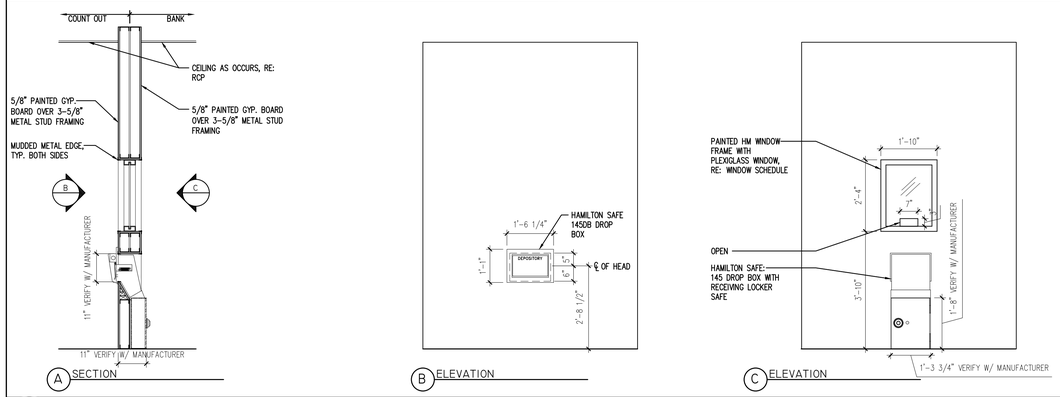
11 LARGE SCALE PHARMACY PLAN

SCALE: 1/4" = 1'-0"



9 PHARMACY LOW WALL DETAIL

SCALE: 1-1/2" = 1'-0"



A SECTION

B ELEVATION

C ELEVATION

13 COUNT OUT PASS THRU

SCALE: 1/2" = 1'-0"

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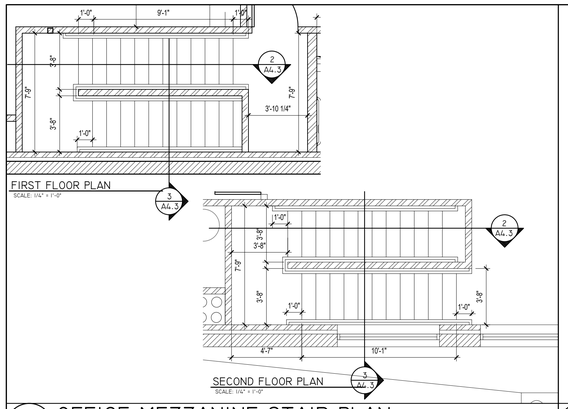
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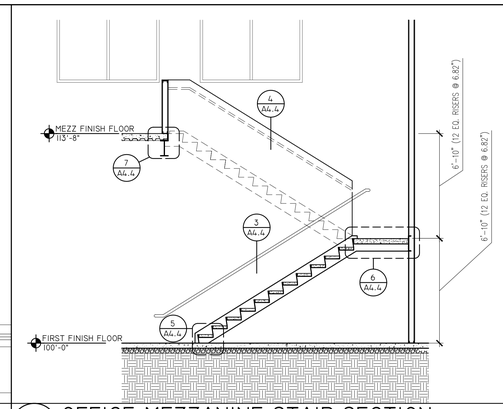
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RX PLANS, ELEVS AND DETAILS

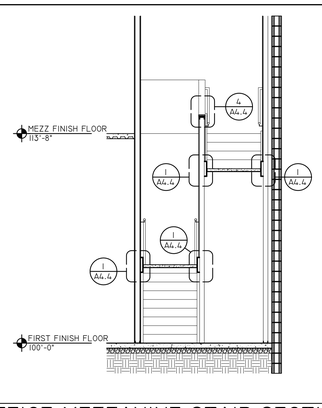
A4.2



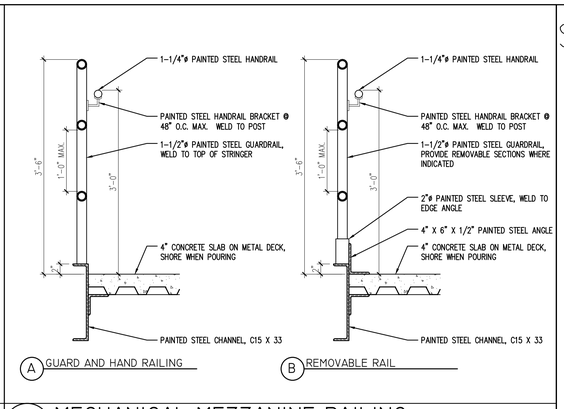
1 OFFICE MEZZANINE STAIR PLAN
SCALE: 1/4" = 1'-0"



2 OFFICE MEZZANINE STAIR SECTION
SCALE: 1/4" = 1'-0"



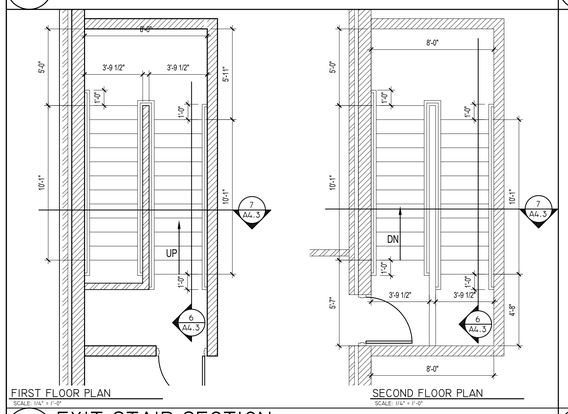
3 OFFICE MEZZANINE STAIR SECTION
SCALE: 1/4" = 1'-0"



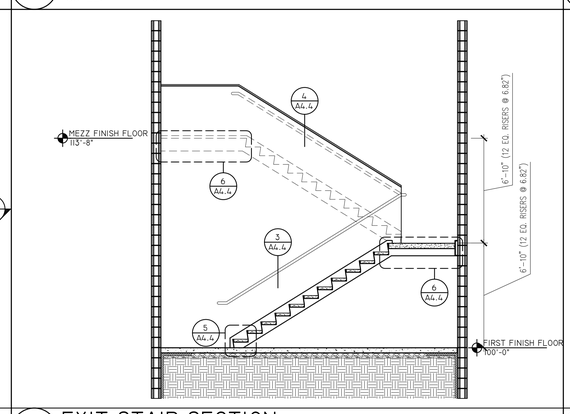
4 MECHANICAL MEZZANINE RAILING
SCALE: 1" = 1'-0"

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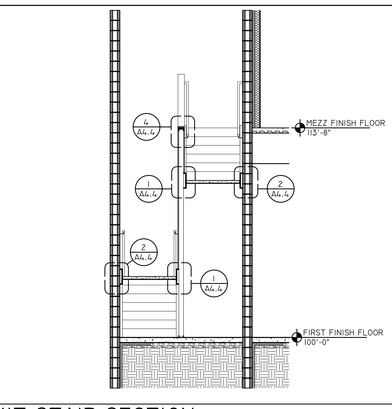
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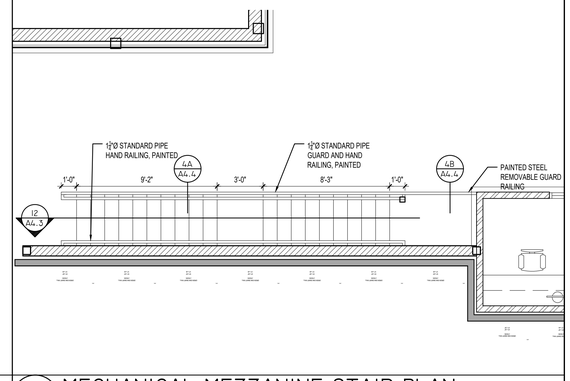
5 EXIT STAIR SECTION
SCALE: 1/4" = 1'-0"



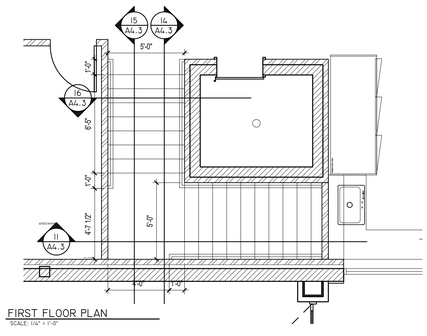
6 EXIT STAIR SECTION
SCALE: 1/4" = 1'-0"



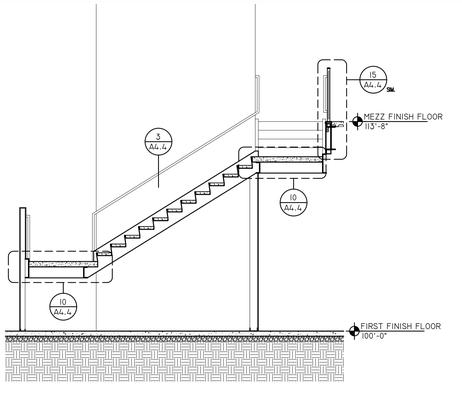
7 EXIT STAIR SECTION
SCALE: 1/4" = 1'-0"



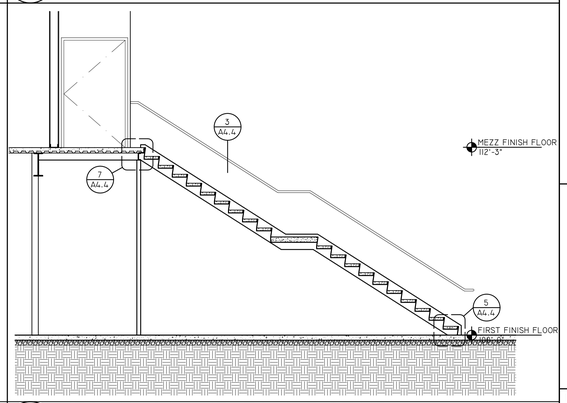
8 MECHANICAL MEZZANINE STAIR PLAN
SCALE: 1/4" = 1'-0"



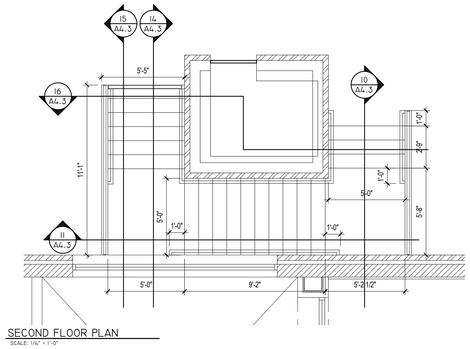
10 DELI STAIR SECTION
SCALE: 1/4" = 1'-0"



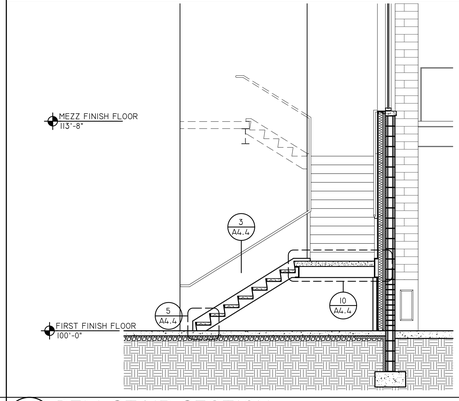
11 DELI STAIR SECTION
SCALE: 1/4" = 1'-0"



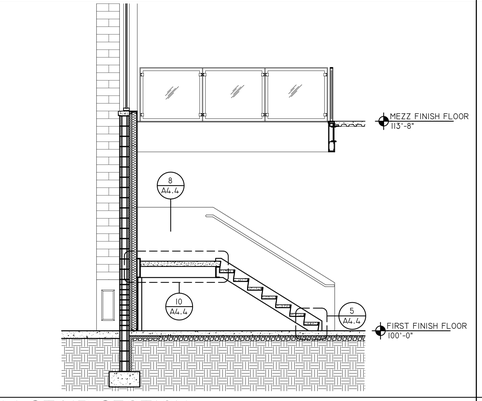
12 MECHANICAL MEZZANINE STAIR
SCALE: 1/4" = 1'-0"



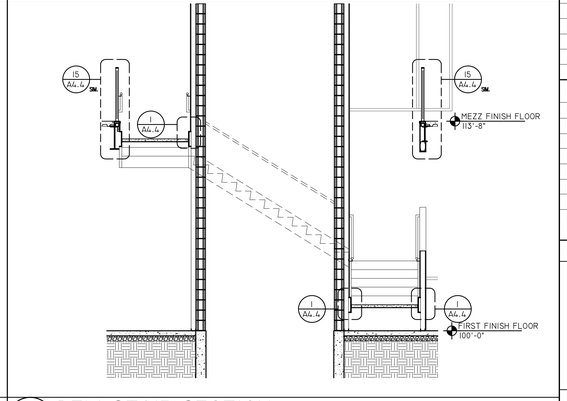
13 DELI STAIR PLAN
SCALE: 1/4" = 1'-0"



14 DELI STAIR SECTION
SCALE: 1/4" = 1'-0"



15 DELI STAIR SECTION
SCALE: 1/4" = 1'-0"



16 DELI STAIR SECTION
SCALE: 1/4" = 1'-0"

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SPANISH FORK

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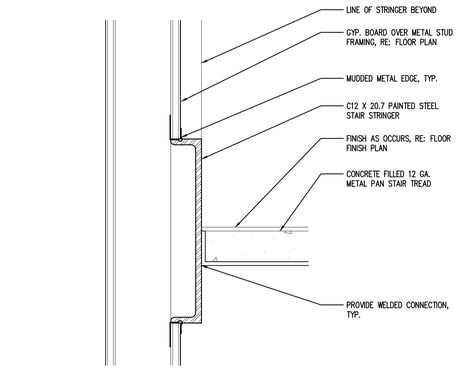
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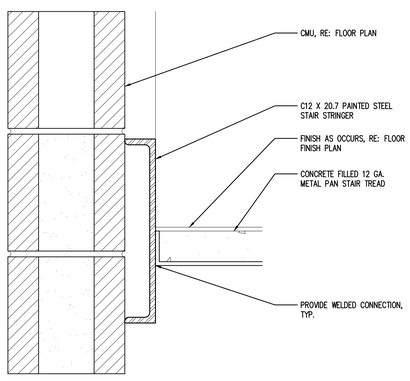
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STAIR PLANS AND SECTIONS

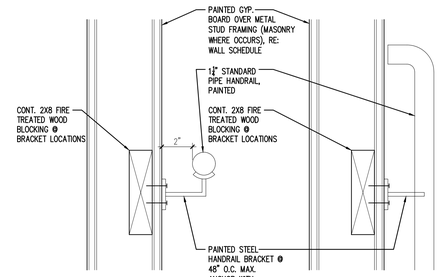
A4.3



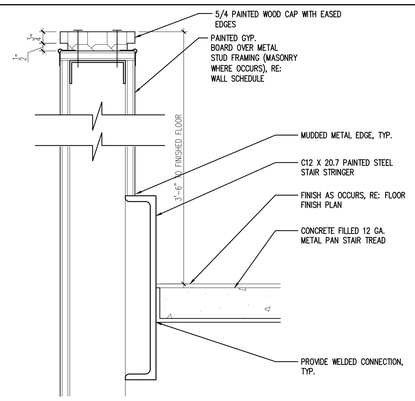
1 STRINGER DETAIL
SCALE: 3" = 1'-0"



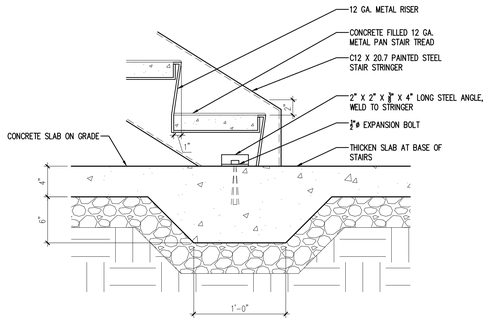
2 STRINGER DETAIL @ CMU
SCALE: 3" = 1'-0"



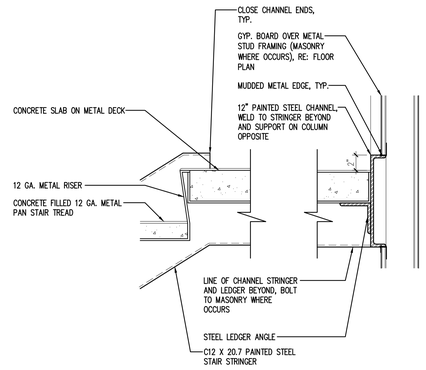
3 HANDRAILING DETAIL
SCALE: 3" = 1'-0"



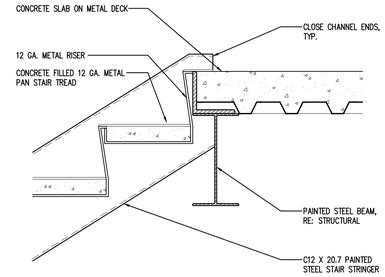
4 WALL CAP DETAIL
SCALE: 3" = 1'-0"



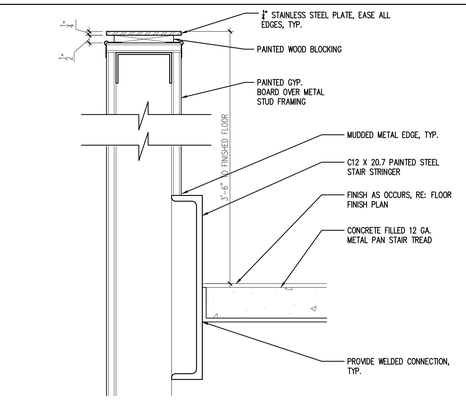
5 LOWER LANDING DETAIL
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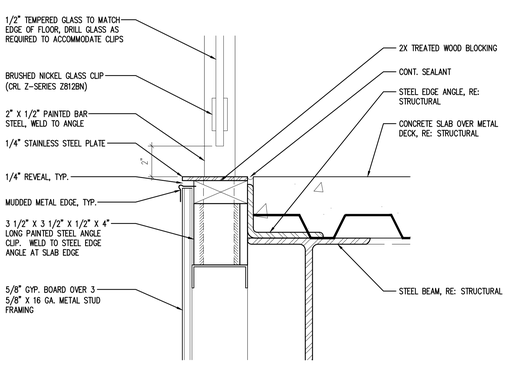
6 INTERMEDIATE LANDING DETAIL
SCALE: 1-1/2" = 1'-0"



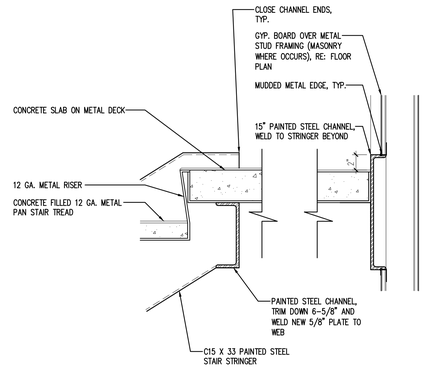
7 UPPER LANDING DETAIL
SCALE: 1-1/2" = 1'-0"



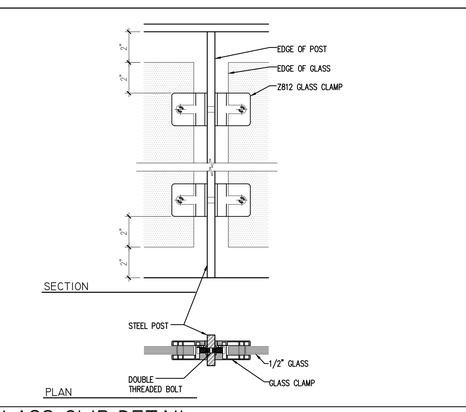
8 WALL CAP DETAIL
SCALE: 3" = 1'-0"



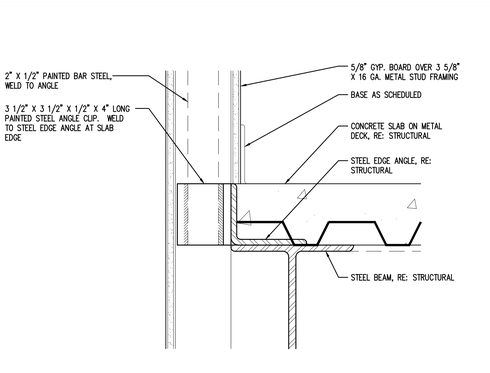
9 RAILING EDGE DETAIL
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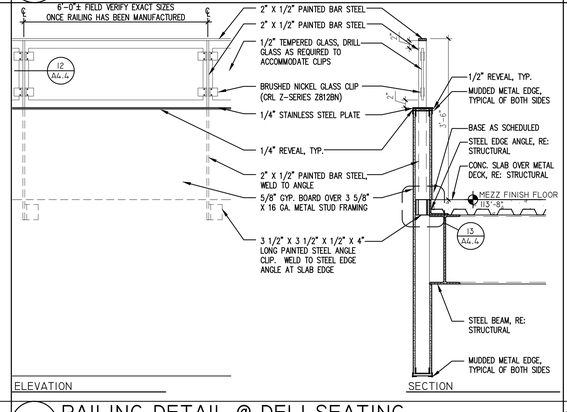
10 INTERMEDIATE LANDING DETAIL
SCALE: 1-1/2" = 1'-0"



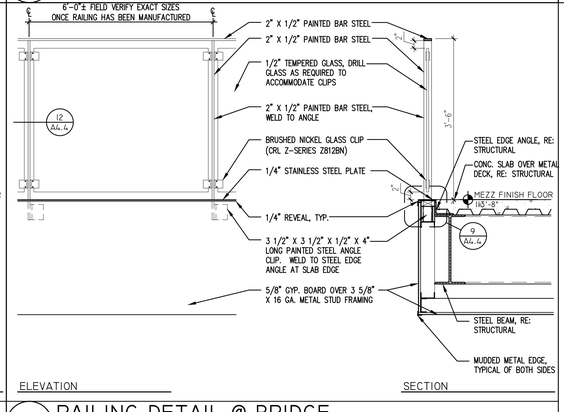
12 GLASS CLIP DETAIL
SCALE: 3" = 1'-0"



13 RAILING EDGE DETAIL
SCALE: 3" = 1'-0"



14 RAILING DETAIL @ DELI SEATING
SCALE: 3/4" = 1'-0"



15 RAILING DETAIL @ BRIDGE
SCALE: 3/4" = 1'-0"

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KRISTEN IRELAND VOROS
No. 7557079-0301
LICENSED ARCHITECT

HARMONS
SPANISH FORK

2643 East 400 North
Spanish Fork, Utah

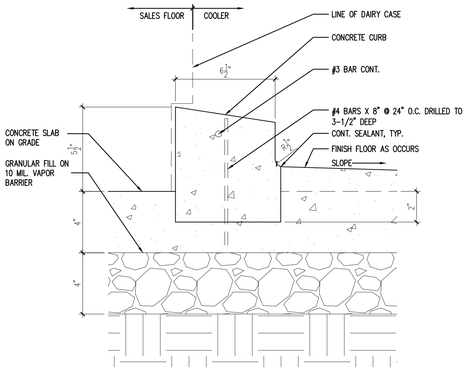
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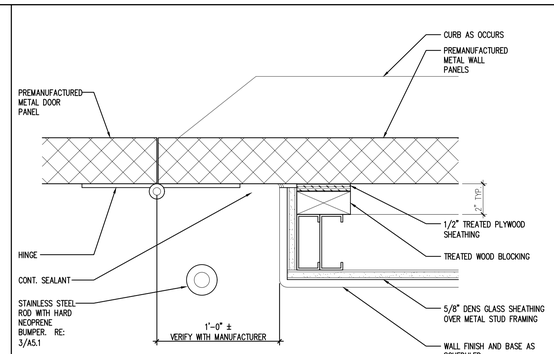
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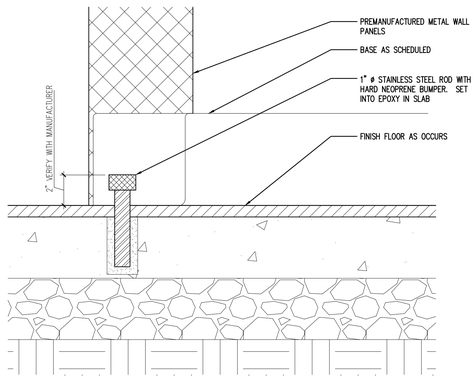
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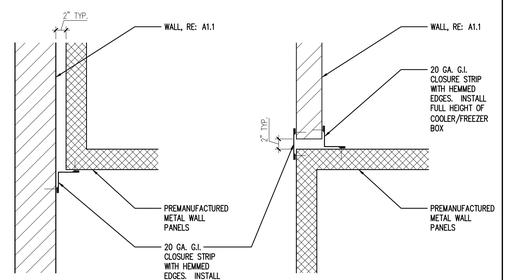
1 CONCRETE BASE @ DAIRY CASE
SCALE: 3" = 1'-0"



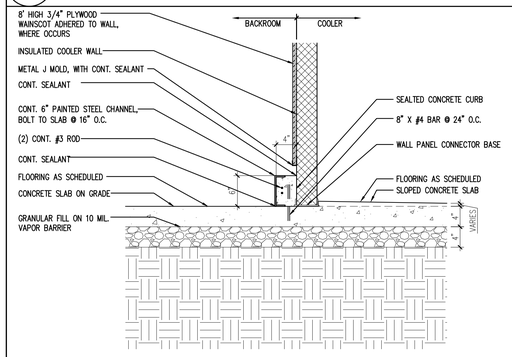
2 COOLER/FREEZER DOOR JAMB DETAIL
SCALE: 3" = 1'-0"



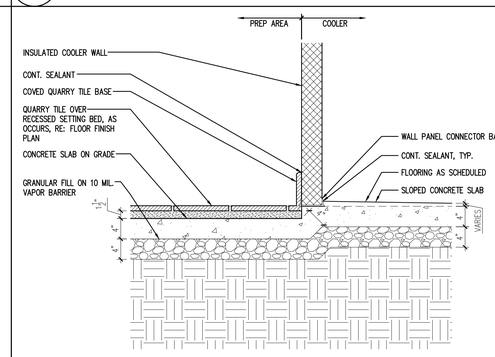
3 COOLER/FREEZER DOOR BUMPER DETAIL
SCALE: 3" = 1'-0"



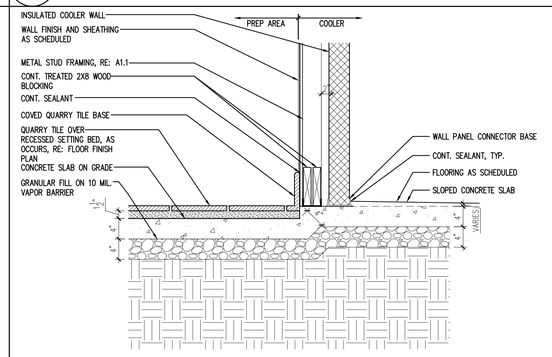
4 CLOSURE DETAIL FOR COOLER/FREEZER WALLS
SCALE: 1" = 1'-0"



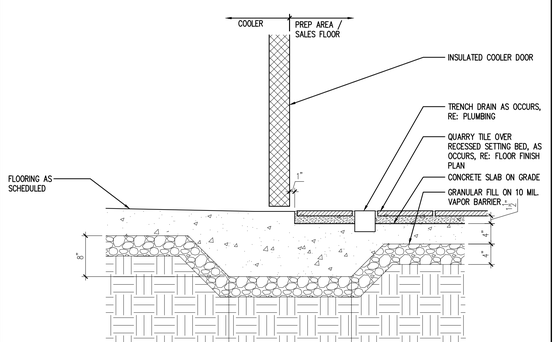
5 COOLER SLAB @ BACKROOM
SCALE: 1" = 1'-0"



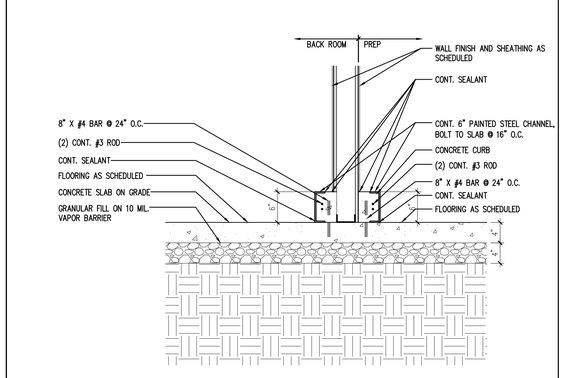
6 COOLER SLAB @ PREP AREA
SCALE: 1" = 1'-0"



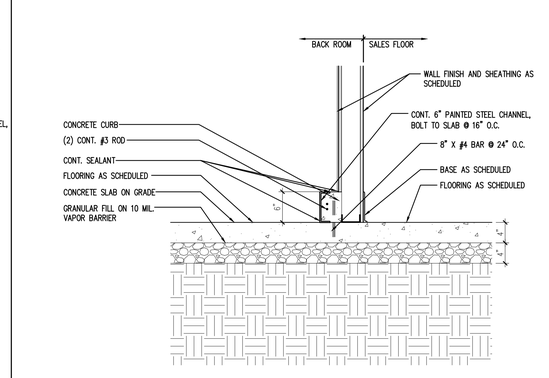
7 COOLER SLAB @ PREP AREA W/WALL
SCALE: 1" = 1'-0"



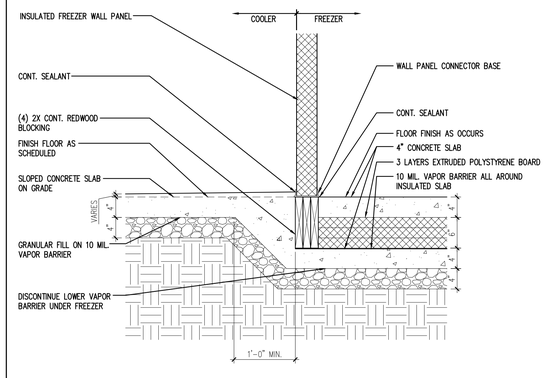
8 SLAB DETAIL @ COOLER DOOR
SCALE: 1" = 1'-0"



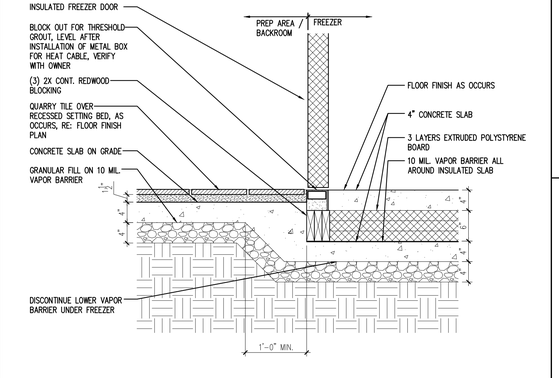
9 BACKROOM CURB DETAIL
SCALE: 1" = 1'-0"



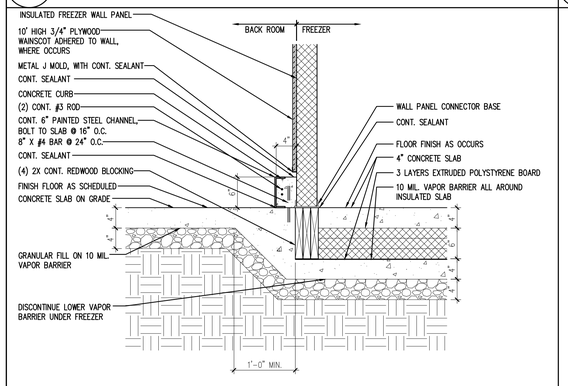
10 BACKROOM CURB DETAIL
SCALE: 1" = 1'-0"



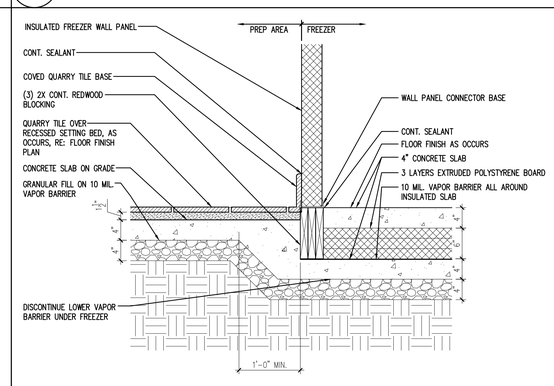
11 COOLER SLAB / FREEZER SLAB
SCALE: 1" 1'-0"



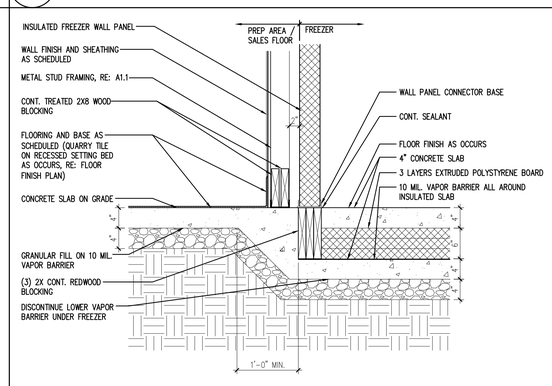
12 FREEZER SLAB DETAIL @ DOOR
SCALE: 1" = 1'=0"



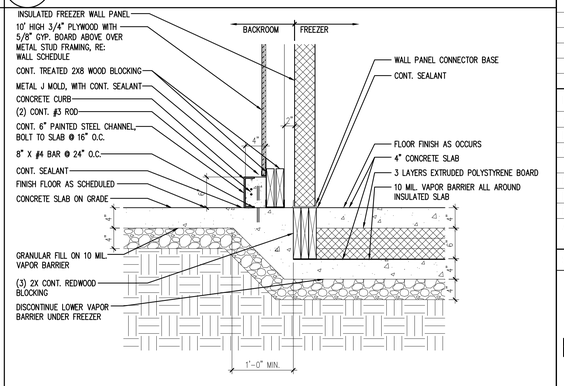
13 FREEZER SLAB @ BACKROOM
SCALE: 1" = 1'-0"



14 FREEZER SLAB @ PREP AREA
SCALE: 1" 1'-0"



15 FREEZER SLAB @ PREP AREA W/WALL
SCALE: 1" 1'-0"



16 FREEZER SLAB @ BACKROOM W/WALL
SCALE: 1" 1'-0"

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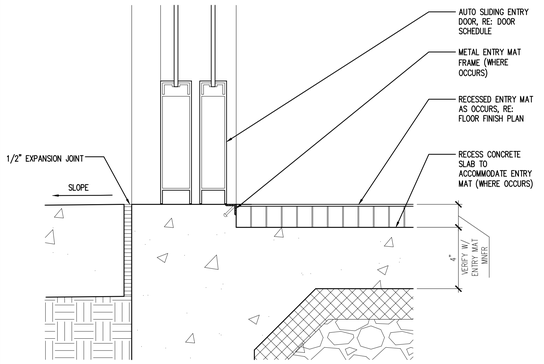
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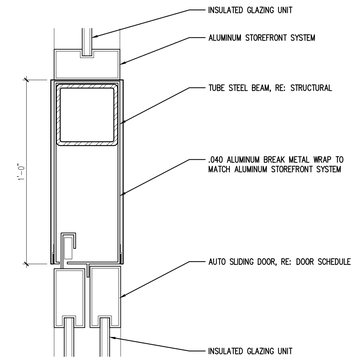
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COOLER & FREEZER DETAILS

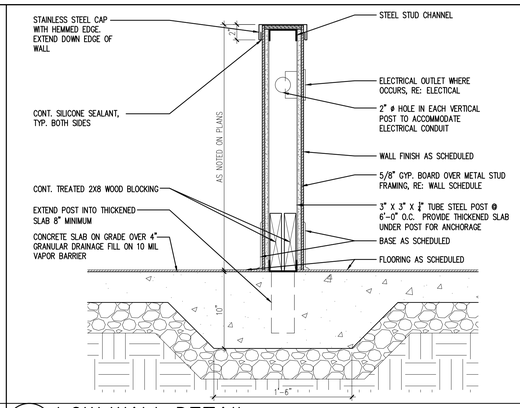
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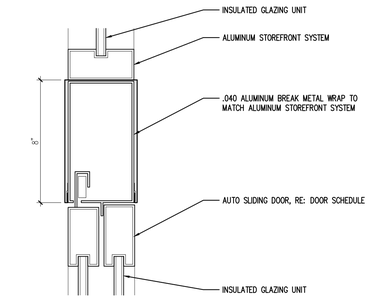
1 THRESHOLD DETAIL AT RECESSED ENTRY MAT
SCALE: 3" = 1'-0"



2 AUTO SLIDING DOOR HEAD DETAIL
SCALE: 3" = 1'-0"



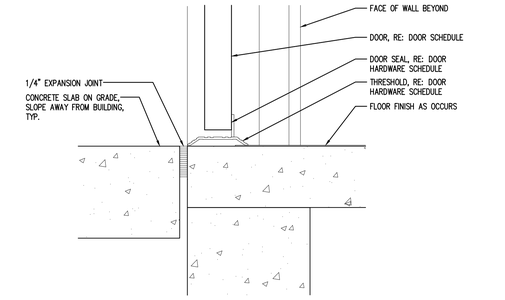
3 LOW WALL DETAIL
SCALE: 1-1/2" = 1'-0"



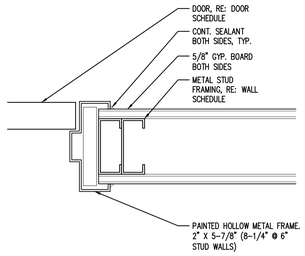
4 AUTO SLIDING DOOR HEAD DETAIL
SCALE: 3" = 1'-0"

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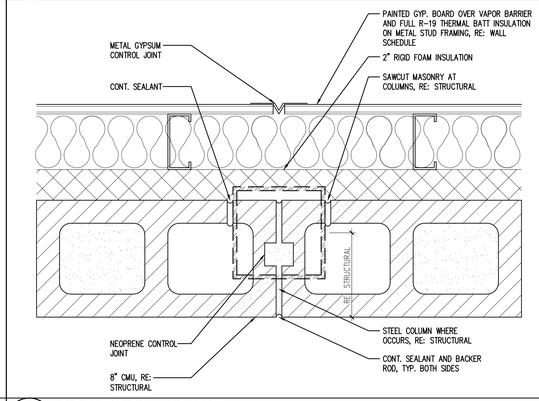




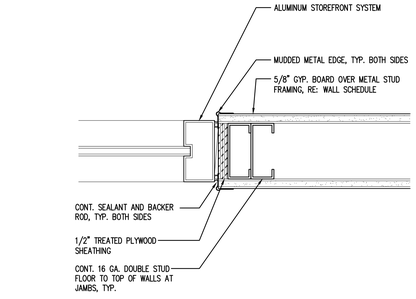
5 THRESHOLD DETAIL
SCALE: 3" = 1'-0"



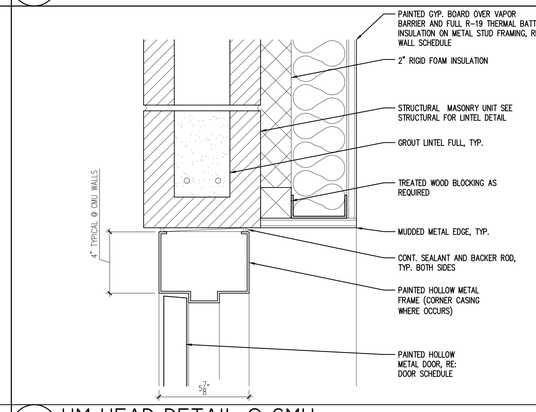
6 HM JAMB DETAIL / HEAD SIM.
SCALE: 3" = 1'-0"



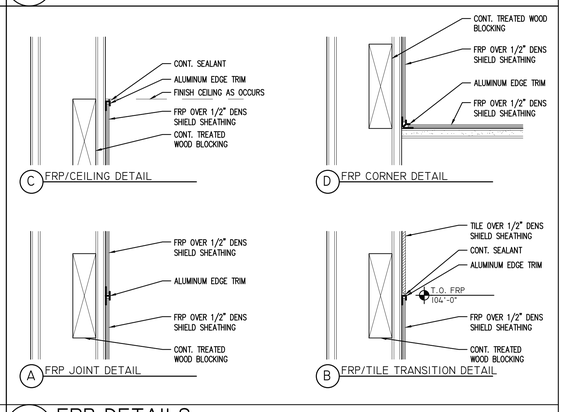
7 CONTROL JOINT
SCALE: 3" = 1'-0"



9 ALUM STOREFRONT JAMB DETAIL / HEAD SIM.
SCALE: 3" = 1'-0"



10 HM HEAD DETAIL @ CMU
SCALE: 3" = 1'-0"



11 FRP DETAILS
SCALE: 3" = 1'-0"

HARMONS
SPANISH FORK

2643 East 400 North
Spanish Fork, Utah

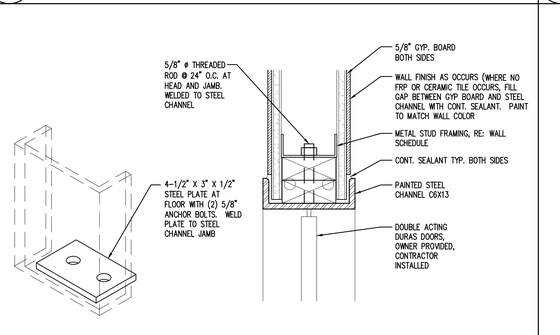
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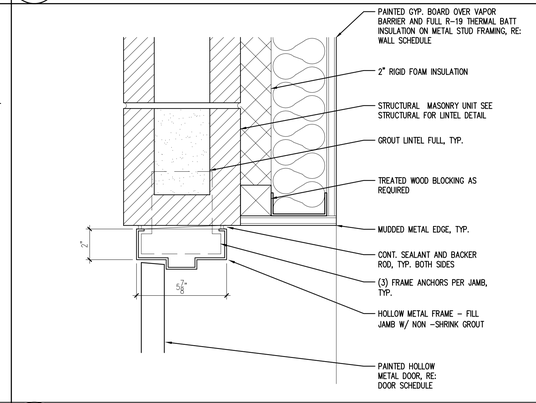
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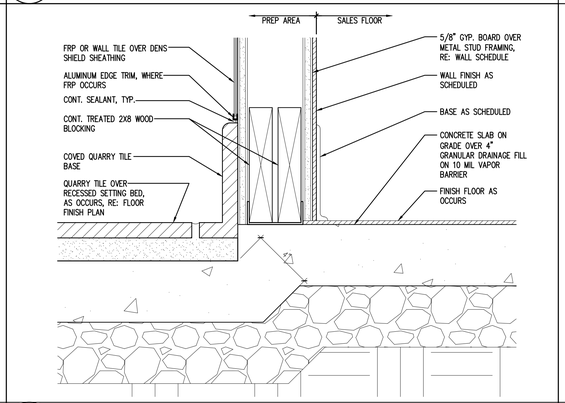
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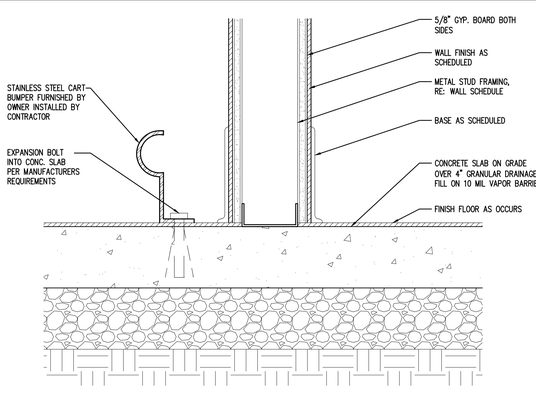
13 DURAS DOOR JAMB DETAIL / HEAD SIM.
SCALE: 3" = 1'-0"



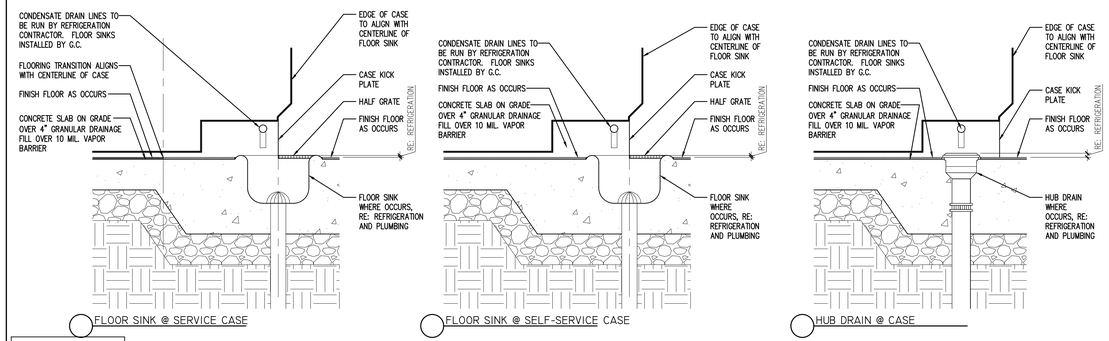
14 HM JAMB DETAIL @ CMU
SCALE: 3" = 1'-0"



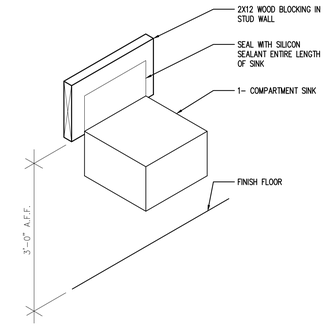
15 PREP AREA BASE DETAIL
SCALE: 3" = 1'-0"



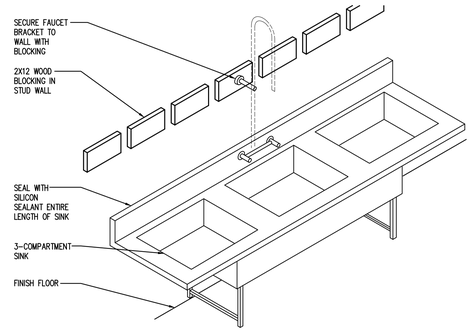
16 CART BUMPER DETAIL
SCALE: 3" = 1'-0"



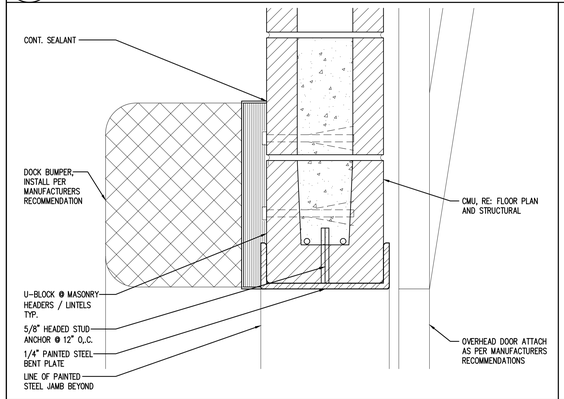
1 FLOOR SINK AND HUB DRAIN DETAILS
SCALE: 1-1/2" = 1'-0"



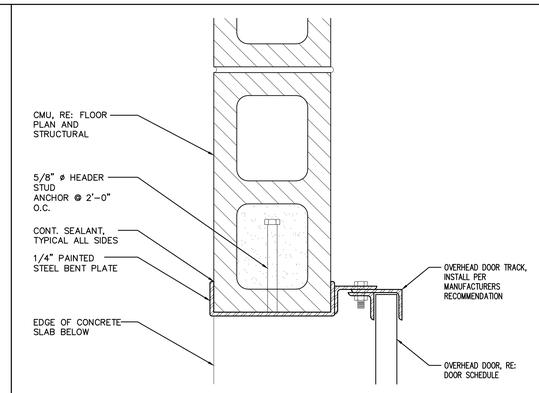
3 1-COMPARTMENT SINK BLOCKING DETAIL
NTS



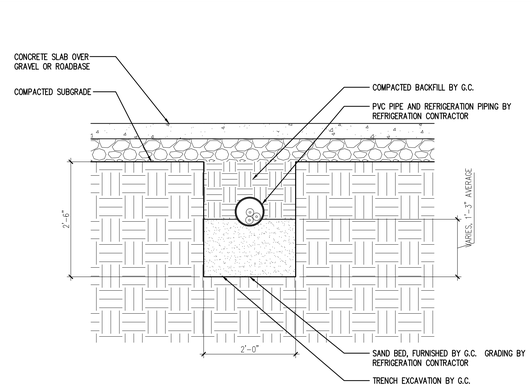
4 3-COMPARTMENT SINK BLOCKING DETAIL
NTS



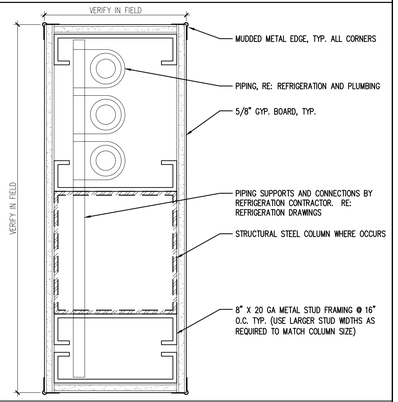
5 OH DOOR HEAD DETAIL
SCALE: 3" = 1'-0"



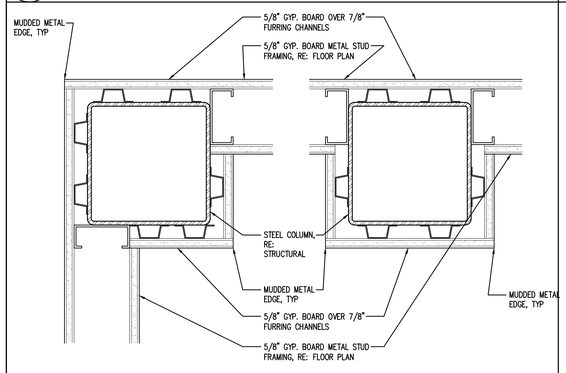
6 OH DOOR JAMB DETAIL
SCALE: 3" = 1'-0"



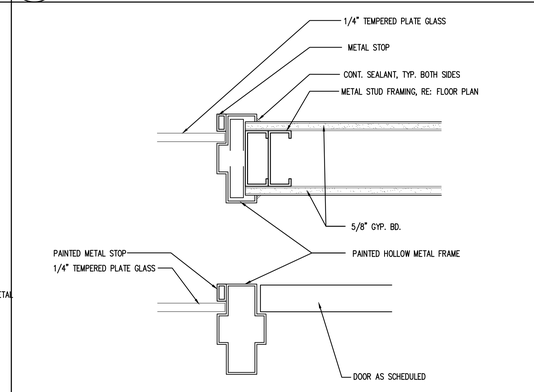
7 REFRIGERATION TRENCH DETAIL
SCALE: 3/4" = 1'-0"



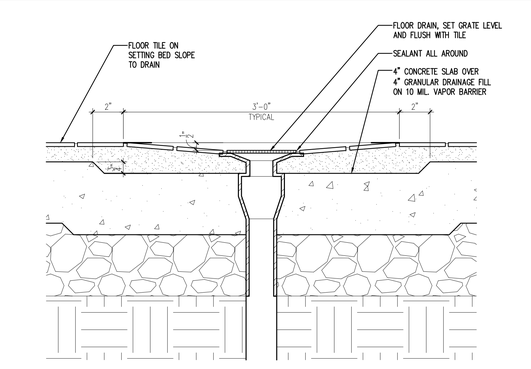
8 REFRIGERATION/PLUMBING FALSE COLUMN
SCALE: 3" = 1'-0"



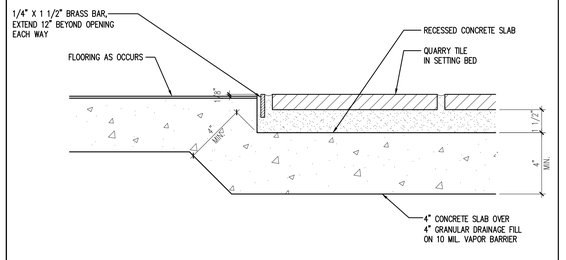
9 COLUMN DETAILS
SCALE: 3" = 1'-0"



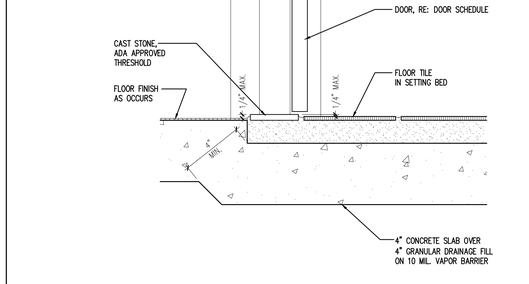
10 HM WINDOW DETAILS
SCALE: 3" = 1'-0"



11 FLOOR DRAIN DETAIL
SCALE: 3" = 1'-0"



13 QUARRY TILE TRANSITION DETAIL
SCALE: 3" = 1'-0"



14 RESTROOM THRESHOLD DETAIL
SCALE: 3" = 1'-0"

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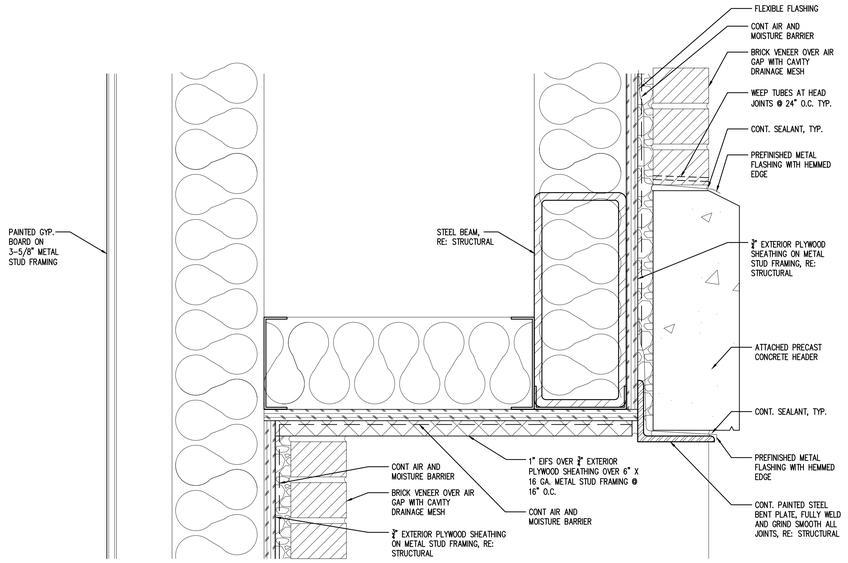
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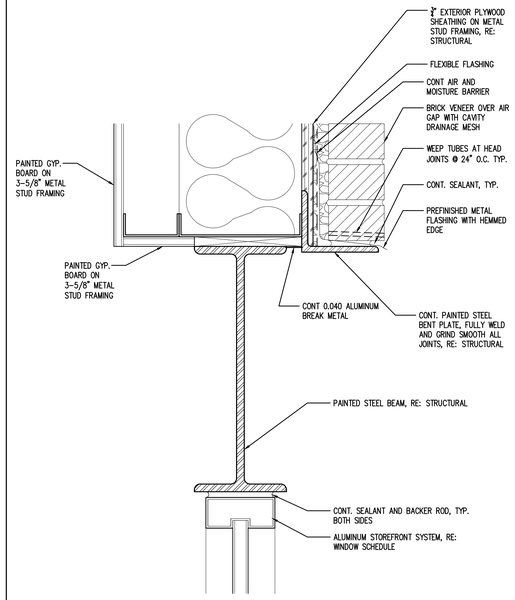
SHEET TITLE

DETAILS

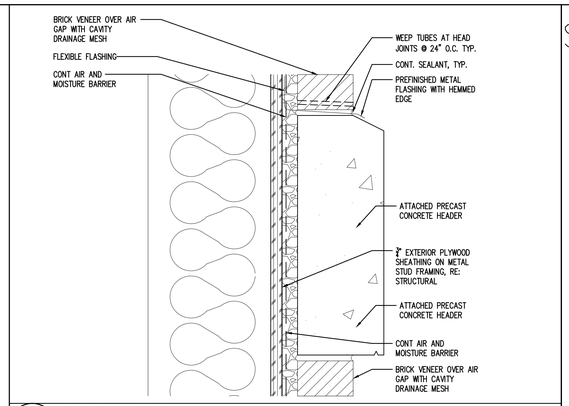
A5.3



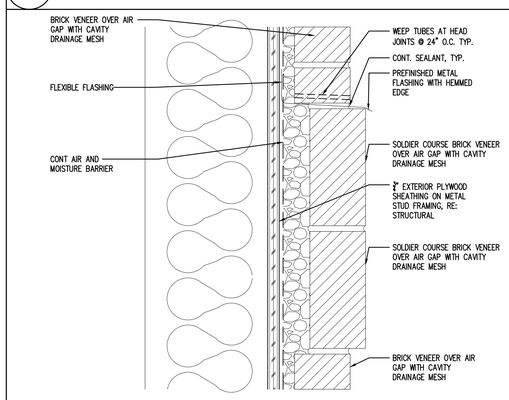
5 SOFFIT DETAIL
SCALE: 3" = 1'-0"



7 WINDOW HEAD DETAIL
SCALE: 3" = 1'-0"



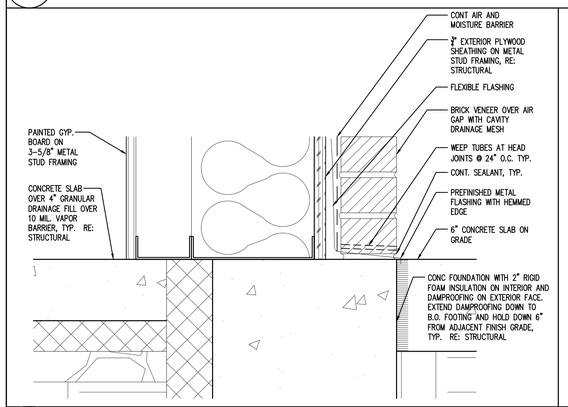
4 BRICK DETAIL
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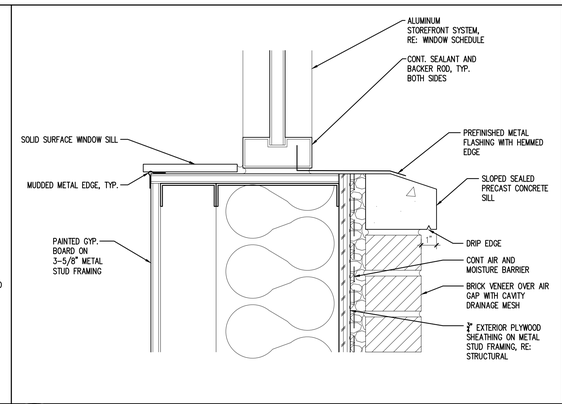
8 BRICK DETAIL
SCALE: 3" = 1'-0"

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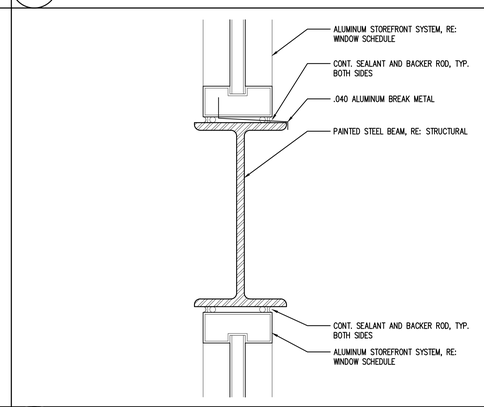
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No. 7557079-0301
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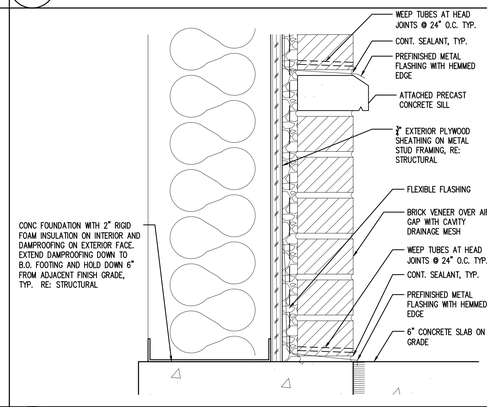
9 BRICK BASE DETAIL
SCALE: 3" = 1'-0"



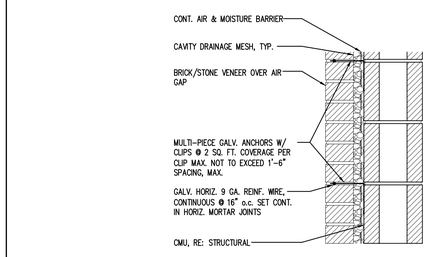
10 WINDOW SILL
SCALE: 3" = 1'-0"



11 WINDOW DETAIL @ BEAM
SCALE: 3" = 1'-0"

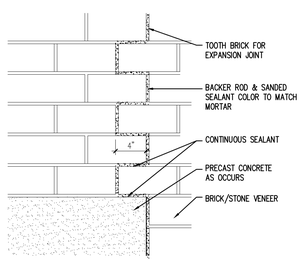


12 BRICK PIER BASE
SCALE: 3" = 1'-0"



VENEER SHALL COMPLY WITH REQUIREMENTS FROM IBC SEC. 1405 AND ACI 530/ASCE 5/TMS AND PROJECT STRUCTURAL DOCUMENTS

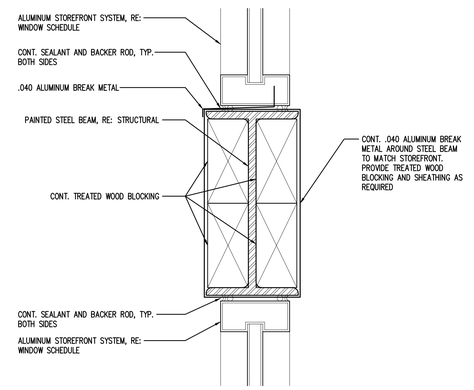
13 BRICK/STONE VENEER ATTACHMENT DETAIL
SCALE: 1-1/2" = 1'-0"



VERTICAL EXPANSION JOINTS IN BRICK/STONE VENEER:
1. FOR BRICKWORK WITHOUT OPENINGS, SPACE NO MORE THAN 25 FT (7.6 M) O.C.
2. FOR BRICKWORK WITH MULTIPLE OPENINGS, PLACE EXPANSION JOINTS SYMMETRICALLY, SPACE NO MORE THAN 20 FT (6.1 M) O.C.
3. WHEN SPACING BETWEEN VERTICAL EXPANSION JOINTS IN PARAPETS IS MORE THAN 15 FT (4.6 M), MAKE EXPANSION JOINTS WIDER OR PLACE ADDITIONAL EXPANSION JOINTS HALFWAY BETWEEN FULL-HEIGHT EXPANSION JOINTS
4. PLACE AS FOLLOWS: AT OR NEAR CORNERS, AT OFFSETS AND SETBACKS, AT WALL INTERSECTIONS, AT CHANGES IN WALL HEIGHT, WHERE WALL BACKING SYSTEM CHANGES, WHERE SUPPORT OF BRICK VENEER CHANGES, WHERE WALL FUNCTION OR CLIMATIC EXPOSURE CHANGES
5. EXTEND TO TOP OF BRICKWORK, INCLUDING PARAPETS

HORIZONTAL EXPANSION JOINTS IN BRICK VENEER:
1. LOCATE IMMEDIATELY BELOW SHELF ANGLES
2. MINIMUM ¾ IN. (6.4 MM) SPACE OR COMPRESSIBLE MATERIAL RECOMMENDED BELOW SHELF ANGLE
3. BRICKWORK WITHOUT SHELF ANGLES: ACCOMMODATE BRICKWORK MOVEMENT BY: PLACING EXPANSION JOINTS AROUND ELEMENTS THAT ARE RIGIDLY ATTACHED TO THE FRAME AND PROJECT INTO THE VENEER, SUCH AS WINDOWS AND DOOR FRAMES.

14 BRICK/STONE VENEER EXPANSION/CJ DETAIL
SCALE: 1-1/2" = 1'-0"



15 WINDOW DETAIL @ BEAM
SCALE: 3" = 1'-0"

HARMONS
SPANISH FORK

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Spanish Fork, Utah

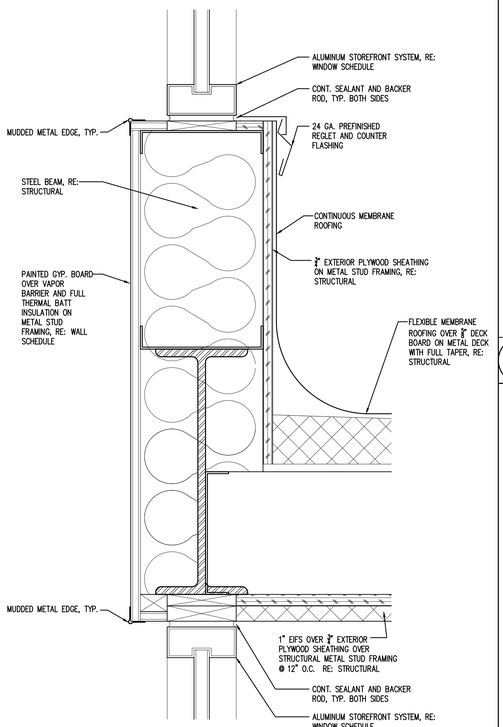
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DESIGNED BY:
DWG TYPE:
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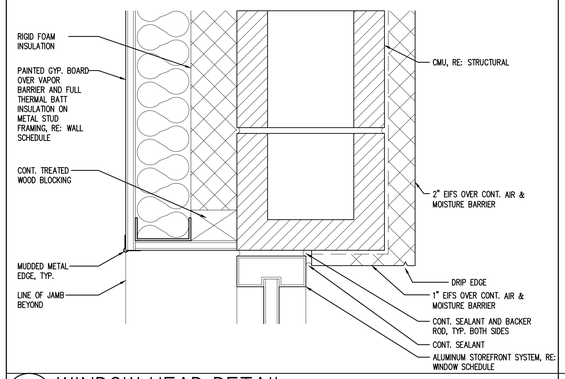
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DETAILS

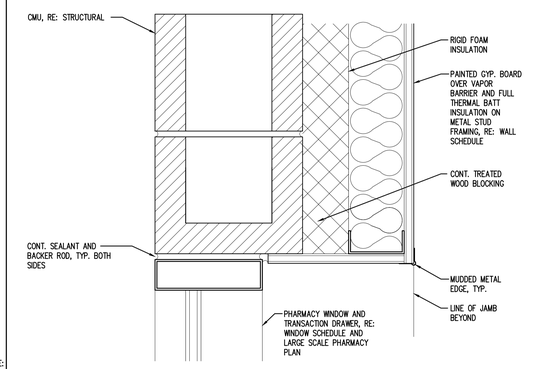
A5.4



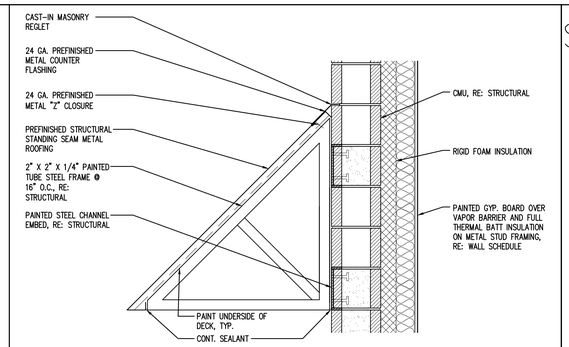
1 WINDOW CANOPY FLASHING DETAIL
SCALE: 3" = 1'-0"



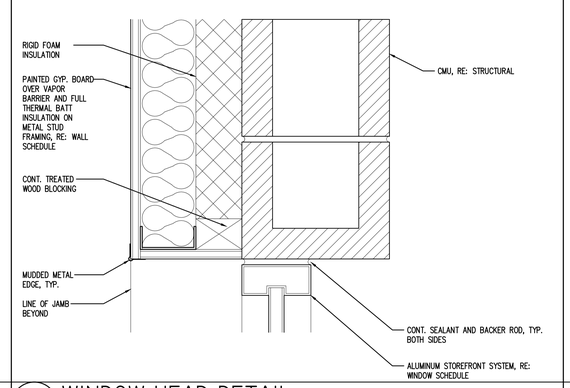
2 WINDOW HEAD DETAIL
SCALE: 3" = 1'-0"



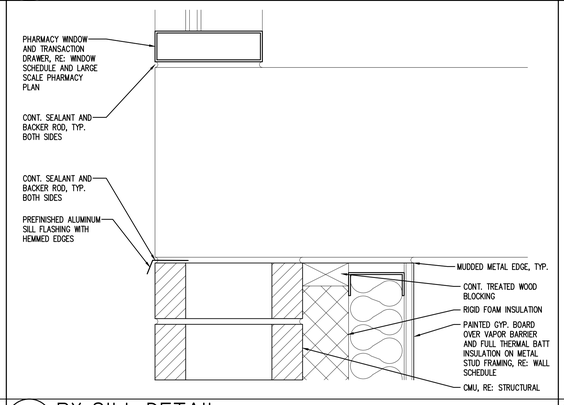
3 RX WINDOW HEAD DETAIL
SCALE: 3" = 1'-0"



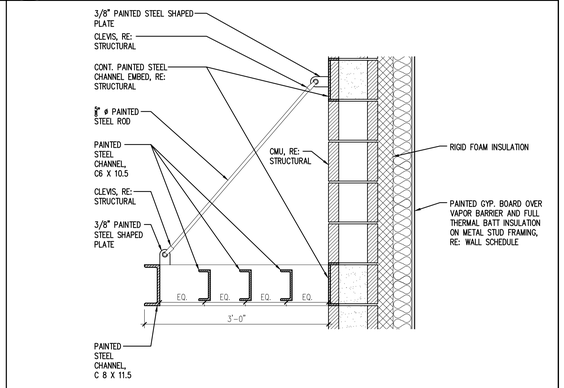
4 STANDING SEAM CANOPY
SCALE: 1" = 1'-0"



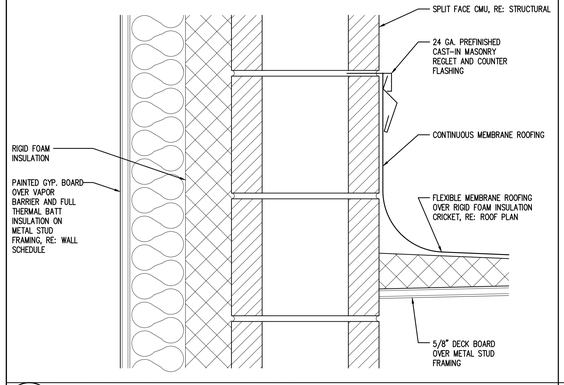
6 WINDOW HEAD DETAIL
SCALE: 3" = 1'-0"



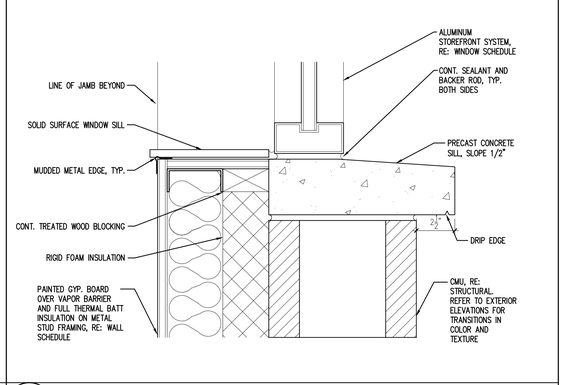
7 RX SILL DETAIL
SCALE: 3" = 1'-0"



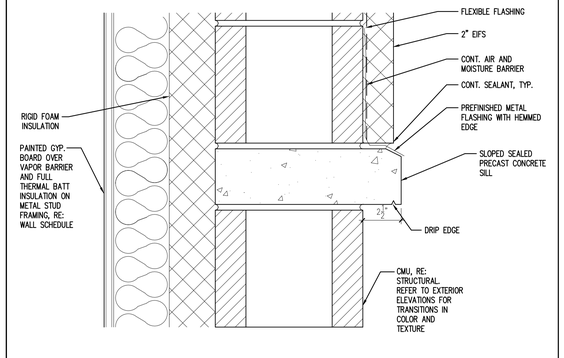
8 TRELLIS CANOPY
SCALE: 1" = 1'-0"



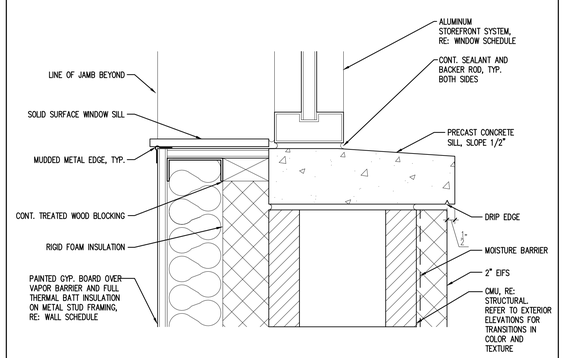
5 CANOPY FLASHING DETAIL
SCALE: 3" = 1'-0"



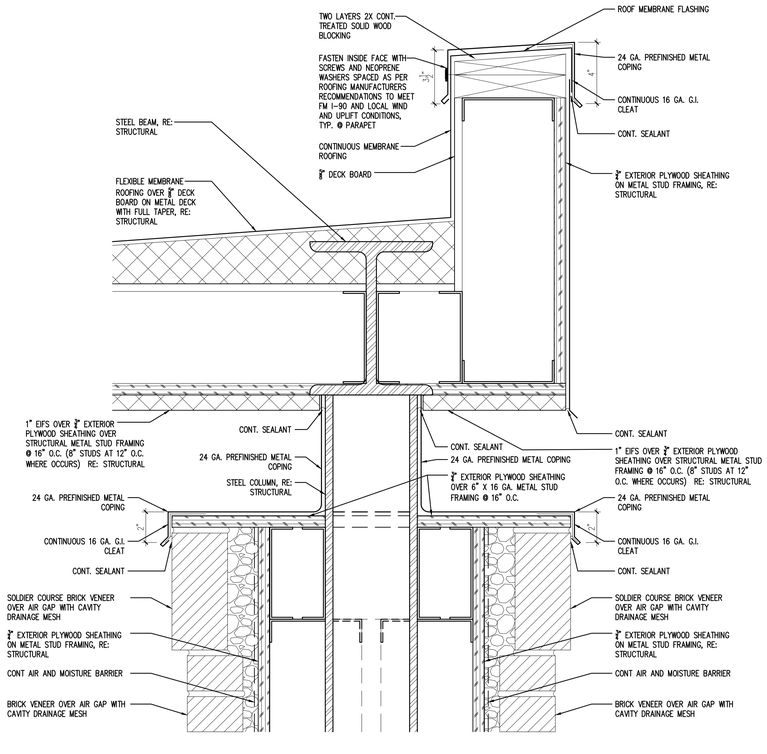
10 SILL DETAIL
SCALE: 3" = 1'-0"



13 SILL DETAIL
SCALE: 3" = 1'-0"



14 SILL DETAIL
SCALE: 3" = 1'-0"



15 CANOPY FASCIA
SCALE: 3" = 1'-0"

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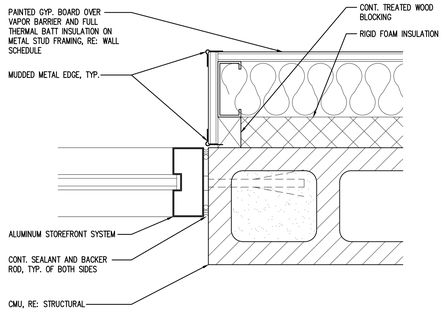
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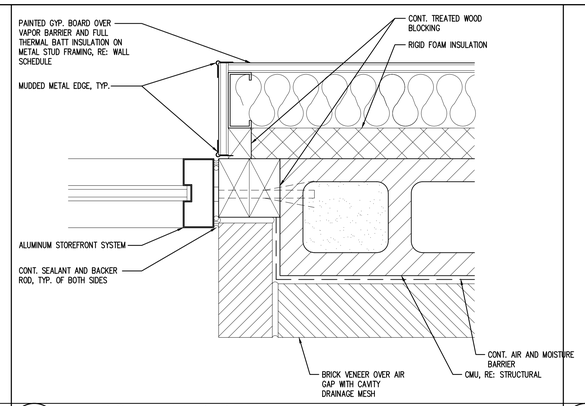
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DETAILS

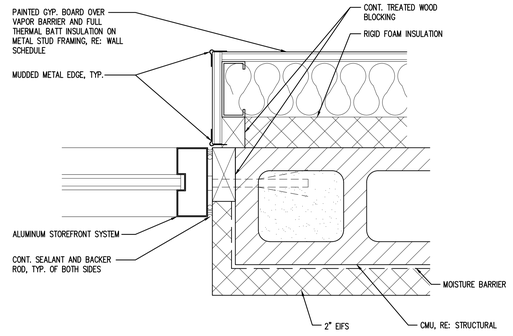
A5.5



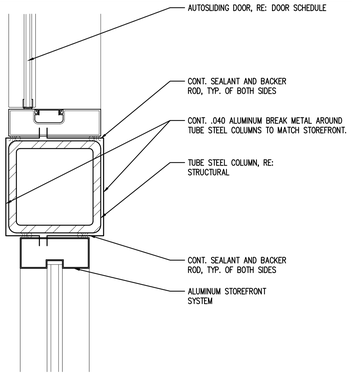
1 WINDOW JAMB DETAIL
SCALE: 3" = 1'-0"



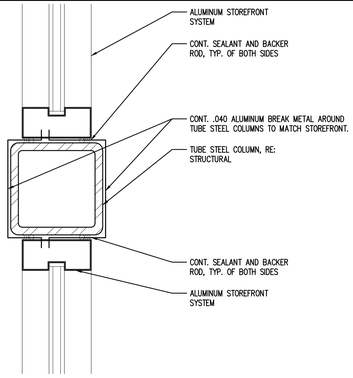
2 WINDOW JAMB DETAIL
SCALE: 3" = 1'-0"



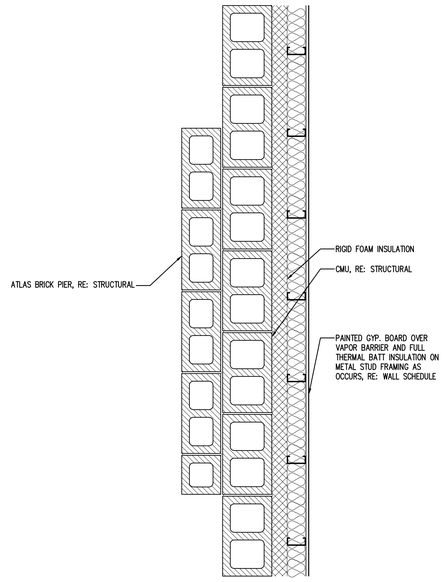
3 WINDOW JAMB DETAIL
SCALE: 3" = 1'-0"



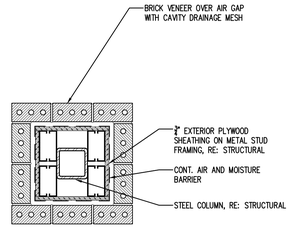
5 WINDOW JAMB DETAIL AT COLUMN
SCALE: 3" = 1'-0"



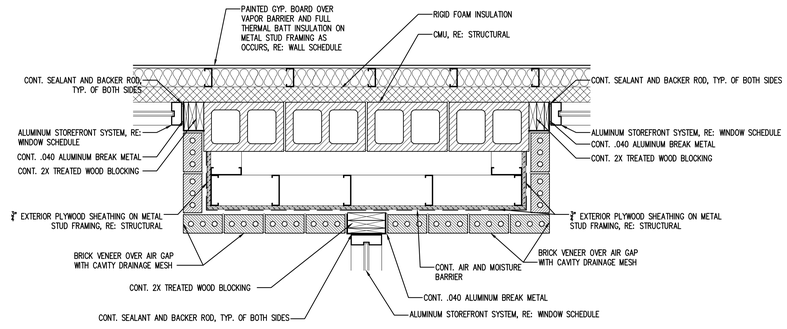
6 WINDOW JAMB DETAIL AT COLUMN
SCALE: 3" = 1'-0"



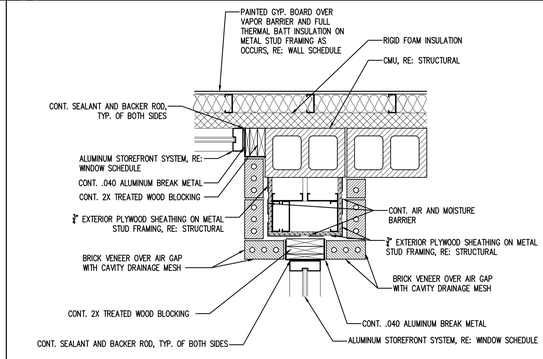
8 PIER DETAIL
SCALE: 1" = 1'-0"



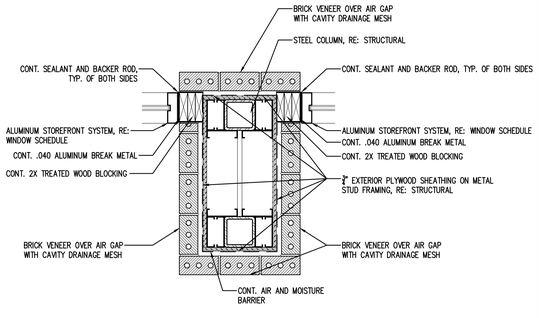
9 PIER DETAIL
SCALE: 1" = 1'-0"



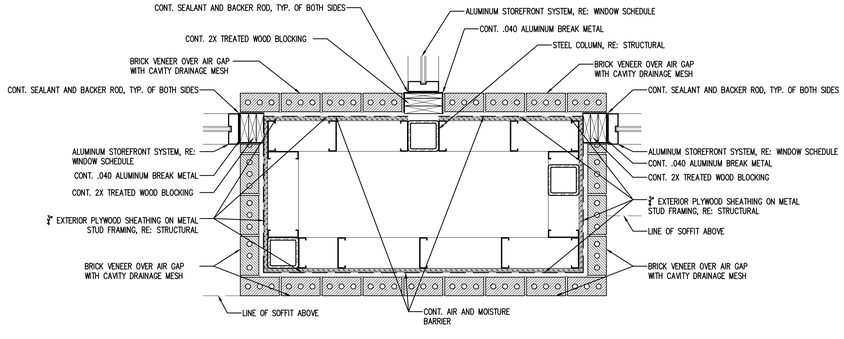
10 PIER DETAIL
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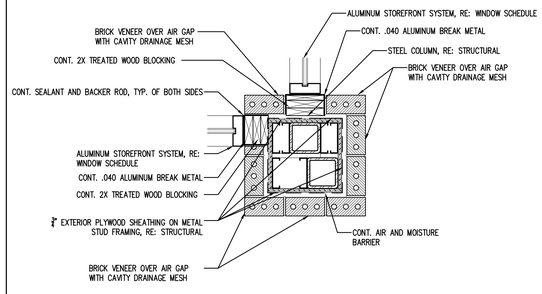
12 PIER DETAIL
SCALE: 1" = 1'-0"



13 PIER DETAIL
SCALE: 1" = 1'-0"



14 PIER DETAIL
SCALE: 1" = 1'-0"



16 PIER DETAIL
SCALE: 1" = 1'-0"

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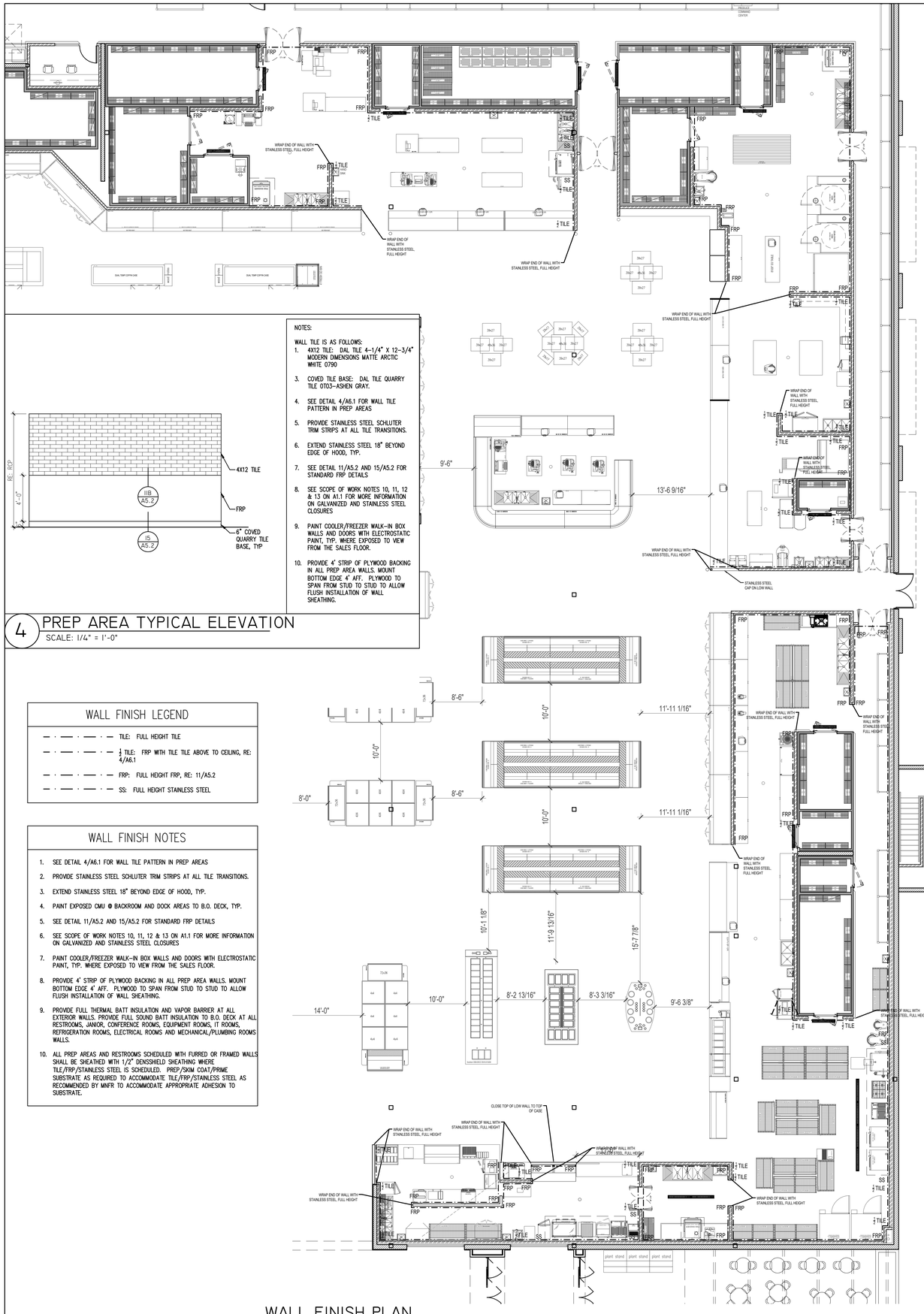
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DESIGNED BY:
DWG TYPE:
ARCHITECTURAL PHASE: BID SET

SHEET TITLE

DETAILS

A5.6



NOTES:

WALL TILE IS AS FOLLOWS:

1. 4X12 TILE: DAL TILE 4-1/4" X 12-3/4" MODERN DIMENSIONS MATTE ARCTIC WHITE 0790
3. COVED TILE BASE: DAL TILE QUARRY TILE 0103-ASHEN GRAY.
4. SEE DETAIL 4/A6.1 FOR WALL TILE PATTERN IN PREP AREAS
5. PROVIDE STAINLESS STEEL SCHLUTER TRIM STRIPS AT ALL TILE TRANSITIONS.
6. EXTEND STAINLESS STEEL 18" BEYOND EDGE OF HOOD, TYP.
7. SEE DETAIL 11/A5.2 AND 15/A5.2 FOR STANDARD FRP DETAILS
8. SEE SCOPE OF WORK NOTES 10, 11, 12 & 13 ON A1.1 FOR MORE INFORMATION ON GALVANIZED AND STAINLESS STEEL CLOSURES
9. PAINT COOLER/FREEZER WALK-IN BOX WALLS AND DOORS WITH ELECTROSTATIC PAINT, TYP. WHERE EXPOSED TO VIEW FROM THE SALES FLOOR.
10. PROVIDE 4' STRIP OF PLYWOOD BACKING IN ALL PREP AREA WALLS. MOUNT BOTTOM EDGE 4' AFF. PLYWOOD TO SPAN FROM STUD TO STUD TO ALLOW FLUSH INSTALLATION OF WALL SHEATHING.

4 PREP AREA TYPICAL ELEVATION

SCALE: 1/4" = 1'-0"

WALL FINISH LEGEND

- TILE: FULL HEIGHT TILE
- ½ TILE: FRP WITH TILE TILE ABOVE TO CEILING, RE: 4/A6.1
- FRP: FULL HEIGHT FRP, RE: 11/A5.2
- SS: FULL HEIGHT STAINLESS STEEL

WALL FINISH NOTES

1. SEE DETAIL 4/A6.1 FOR WALL TILE PATTERN IN PREP AREAS
2. PROVIDE STAINLESS STEEL SCHLUTER TRIM STRIPS AT ALL TILE TRANSITIONS.
3. EXTEND STAINLESS STEEL 18" BEYOND EDGE OF HOOD, TYP.
4. PAINT EXPOSED CMU @ BACKROOM AND DOCK AREAS TO B.O. DECK, TYP.
5. SEE DETAIL 11/A5.2 AND 15/A5.2 FOR STANDARD FRP DETAILS
6. SEE SCOPE OF WORK NOTES 10, 11, 12 & 13 ON A1.1 FOR MORE INFORMATION ON GALVANIZED AND STAINLESS STEEL CLOSURES
7. PAINT COOLER/FREEZER WALK-IN BOX WALLS AND DOORS WITH ELECTROSTATIC PAINT, TYP. WHERE EXPOSED TO VIEW FROM THE SALES FLOOR.
8. PROVIDE 4' STRIP OF PLYWOOD BACKING IN ALL PREP AREA WALLS. MOUNT BOTTOM EDGE 4' AFF. PLYWOOD TO SPAN FROM STUD TO STUD TO ALLOW FLUSH INSTALLATION OF WALL SHEATHING.
9. PROVIDE FULL THERMAL BATT INSULATION AND VAPOR BARRIER AT ALL EXTERIOR WALLS. PROVIDE FULL SOUND BATT INSULATION TO B.O. DECK AT ALL RESTROOMS, JANIOR, CONFERENCE ROOMS, EQUIPMENT ROOMS, IT ROOMS, REFRIGERATION ROOMS, ELECTRICAL ROOMS AND MECHANICAL/PLUMBING ROOMS WALLS.
10. ALL PREP AREAS AND RESTROOMS SCHEDULED WITH FURRED OR FRAMED WALLS SHALL BE SHEATHED WITH 1/2" DENSSHIELD SHEATHING WHERE TILE/FRP/STAINLESS STEEL IS SCHEDULED. PREP/SKIM COAT/PRIME SUBSTRATE AS REQUIRED TO ACCOMMODATE TILE/FRP/STAINLESS STEEL AS RECOMMENDED BY MNFR TO ACCOMMODATE APPROPRIATE ADHESION TO SUBSTRATE.

WALL FINISH PLAN

SCALE: 1/8" = 1'-0"

FINISH SCHEDULE

ROOM NUMBER AND NAME	BASE				WALL				NOTES
101 VESTBULE	B-1	B-4			W-1				
102 VESTIBULE	B-1	B-4			W-1				
103 ENTRY	B-1	B-4			W-1				
104 FLORAL	B-1				W-1				
105 ELEVATOR									1-HOUR RATED. SEAL ALL PENETRATIONS
106 STAIR	B-1				W-1				
107 CS	B-1				W-1				
108 OFFICE	B-1				W-1				
109 STORAGE	B-1				W-1				
110 OFFICE	B-1				W-1				
111 RESTROOM	B-5				W-3				PROVIDE FULL SOUND BATT INSULATION TO B.O. DECK
112 RESTROOM	B-5				W-3				PROVIDE FULL SOUND BATT INSULATION TO B.O. DECK
113 RESTROOM	B-5				W-3				PROVIDE FULL SOUND BATT INSULATION TO B.O. DECK
114 STAIR	B-1				W-1				
115 CONSULT	B-1				W-1				
116 PHARMACY	B-1				W-1				
117 STORAGE	B-1				W-1				
118 RESTROOM	B-1				W-9				PROVIDE FULL SOUND BATT INSULATION TO B.O. DECK
119 E-COMM	B-1				W-1				
120 RISER	B-2				W-5	W-10			
121 DAIRY COOLER	B-3				W-7				
122 FOODIE STORAGE	B-1				W-1				
123 OFFICE	B-1				W-1				
124 STORAGE	B-1				W-1				
125 BACKROOM	B-3				W-8				PROVIDE 4' X 4' X 4' FRP BACKSPLASH AT MOP SINK
126 GROCERY FREEZER	B-2				W-7				
127 STORAGE	B-1				W-1				
128 OFFICE	B-1				W-1				
129 MEAT COOLER	B-2				W-7				
130 MEAT FREEZER	B-2				W-7				
131 GRIND COOLER	B-2				W-7				
132 MEAT PREP	B-5				W-2				
133 MEAT COOLER	B-2				W-7				
134 PRODUCE COOLER	B-2				W-7				
135 PRODUCE COOLER	B-2				W-7				
136 BAKERY COOLER	B-2				W-7				
137 BAKERY FREEZER	B-2				W-7				
138 BAKERY PREP	B-5				W-2				
139 DELI PREP	B-5				W-2				
140 PRODUCE COOLER	B-2				W-7				
141 DELI COOLER	B-2				W-7				
142 DELI FREEZER	B-2				W-7				
143 DELI COOLER	B-2				W-7				
144 STAIR	B-1				W-6				1-HOUR RATED. SEAL ALL PENETRATIONS
145 DISH PIT	B-5				W-2				
146 BURGERS	B-5				W-2				
147 CAFE	B-5				W-2				
148 CHEESE ISLAND	B-1				W-2				
149 SALES FLOOR	B-1				W-1				
201 SEATING	B-1				W-1				
202 CONFERENCE ROOM	B-1				W-1				PROVIDE FULL SOUND BATT INSULATION TO B.O. DECK
203 STORAGE	B-1				W-1				
204 HR	B-1				W-1				
205 HEAD CHECKER	B-1				W-1				
206 MANAGER	B-1				W-1				
207 DIRECTOR	B-1				W-1				
208 BREAKROOM	B-1				W-1				
209 HALL	B-1				W-1				
210 TRAINING	B-1				W-1				
211 STORAGE	B-1				W-1				
212 RESTROOM	B-5				W-3				PROVIDE FULL SOUND BATT INSULATION TO B.O. DECK
213 RESTROOM	B-5				W-3				PROVIDE FULL SOUND BATT INSULATION TO B.O. DECK
214 ELEC	B-1				W-1				PROVIDE FULL SOUND BATT INSULATION TO B.O. DECK
215 IT	B-1				W-1				PROVIDE FULL SOUND BATT INSULATION TO B.O. DECK. PROVIDE ¾" PAINTED FIRE TREATED PLYWOOD SHEATHING OVER GYP. BOARD ON ALL WALLS.
216 DEPT HEAD	B-1				W-1				
217 REFRIGERATION	B-2				W-10				1-HOUR RATED, SEAL ALL PENETRATIONS. PROVIDE FULL SOUND BATT INSULATION TO B.O. DECK
218 ELEC	B-2				W-10				1-HOUR RATED, SEAL ALL PENETRATIONS. PROVIDE FULL SOUND BATT INSULATION TO B.O. DECK
219 WH	B-2				W-10				PROVIDE FULL SOUND BATT INSULATION TO B.O. DECK
220 IT									PROVIDE FULL SOUND BATT INSULATION TO B.O. DECK. PROVIDE ¾" PAINTED FIRE TREATED PLYWOOD SHEATHING OVER GYP. BOARD ON ALL WALLS.

MATERIAL NUMBER	MATERIAL DESCRIPTION
B-1	6" RUBBER COVED
B-2	NO BASE
B-3	6" HIGH SEALED CONCRETE CURB
B-4	CART BUMPER, OFCI
B-5	COVED TILE BASE
W-1	PAINTED GYP. BOARD
W-2	FULL HEIGHT TILE/FRP/STAINLESS STEEL OVER 1/2" DENS SHIELD BACKER BOARD, RE: WALL FINISH PLAN
W-3	FULL HEIGHT WALL TILE OVER 1/2" DENS GLASS BACKER BOARD, RE: A4.1
W-5	UNPAINTED MASONRY
W-6	PAINTED MASONRY
W-7	METAL WALK-IN BOX, BY MANUFACTURER
W-8	8'-0" X 3/4" PLYWOOD WAINSCOT WITH GYP. BOARD ABOVE (TAPE & SAND ONLY, 1-COAT FINISH)
W-9	FULL HEIGHT FRP OVER 1/2" DENS GLASS BACKER BOARD
W-10	TAPE AND SAND ONLY, 1-COAT FINISH

design Sequence
350 SOUTH 200 EAST, #106
SALT LAKE CITY, UTAH 84111
P: 801.596.0691
DESIGNUTAH.COM

STATE OF UTAH
KRISTEN IRELAND VOROS
No. 7557079-0301
LICENSED ARCHITECT

HARMONS
SPANISH FORK

2643 EAST 400 NORTH
SPANISH FORK, UTAH

MARK	DATE	DESCRIPTION

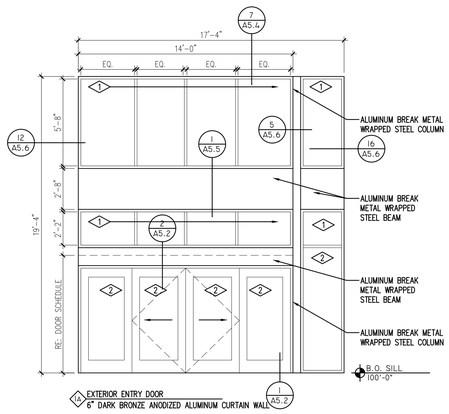
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AGENCY PROJECT NO:
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DRAWN BY:
DESIGNED BY:
DWG TYPE:
ARCHITECTURAL PHASE: BID SET

SHEET TITLE

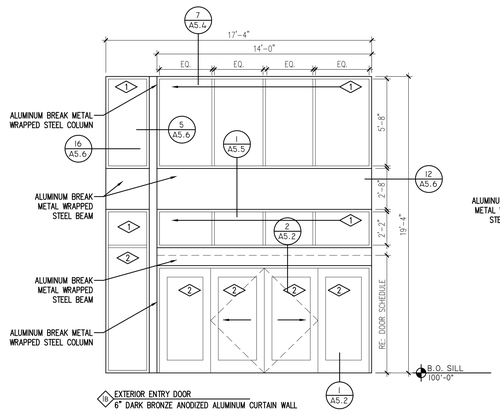
FINISH PLAN & SCHEDULE

A6.1

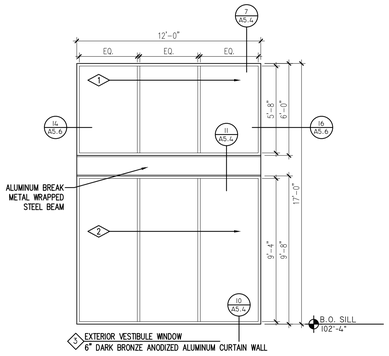
WINDOW TYPES



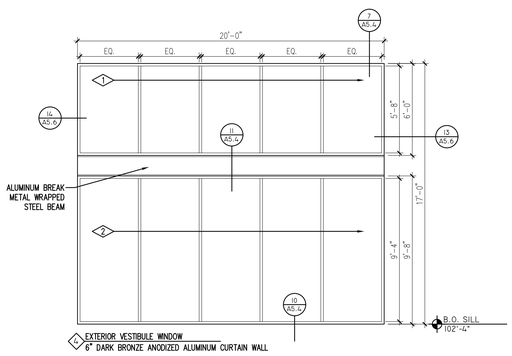
4 EXTERIOR ENTRY DOOR
6" DARK BRONZE ANODIZED ALUMINUM CURTAIN WALL



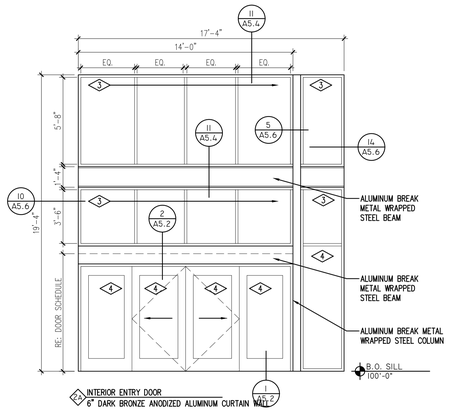
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6" DARK BRONZE ANODIZED ALUMINUM CURTAIN WALL



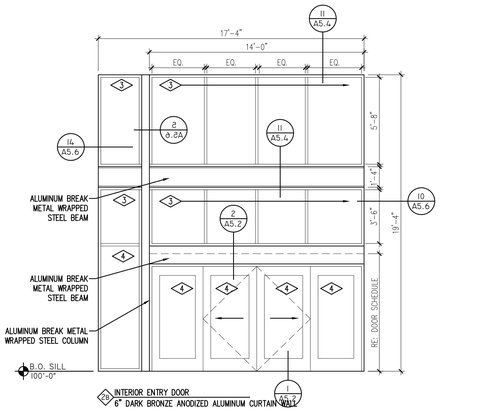
1 EXTERIOR VESTIBULE WINDOW
6" DARK BRONZE ANODIZED ALUMINUM CURTAIN WALL



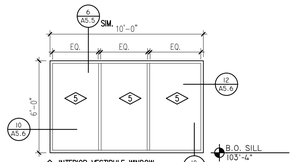
4 EXTERIOR VESTIBULE WINDOW
6" DARK BRONZE ANODIZED ALUMINUM CURTAIN WALL



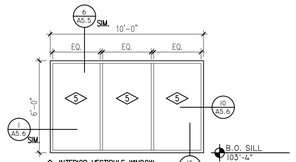
23 INTERIOR ENTRY DOOR
6" DARK BRONZE ANODIZED ALUMINUM CURTAIN WALL



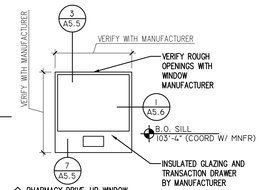
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6" DARK BRONZE ANODIZED ALUMINUM CURTAIN WALL



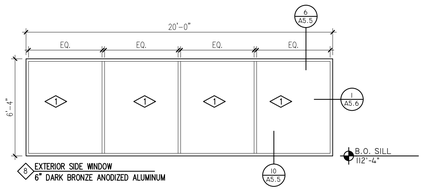
5 INTERIOR VESTIBULE WINDOW
6" DARK BRONZE ANODIZED ALUMINUM



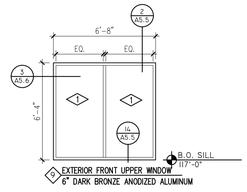
5 INTERIOR VESTIBULE WINDOW
6" DARK BRONZE ANODIZED ALUMINUM



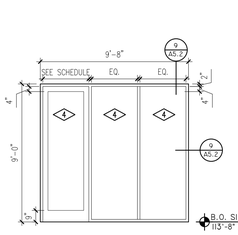
7 PHARMACY DRIVE-UP WINDOW
60X63 EF BAWS WINDOW WITH ELECTRIC TRANSACTION DRAWER AND AUDIO SYSTEM, CARD READER KIT AND VEHICLE DETECTION SYSTEM



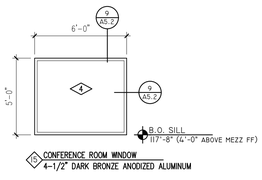
9 EXTERIOR SIDE WINDOW
6" DARK BRONZE ANODIZED ALUMINUM



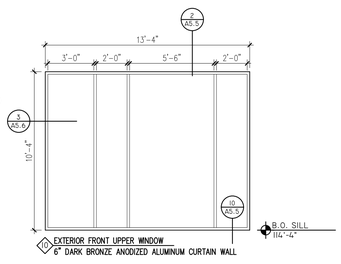
9 EXTERIOR FRONT UPPER WINDOW
6" DARK BRONZE ANODIZED ALUMINUM



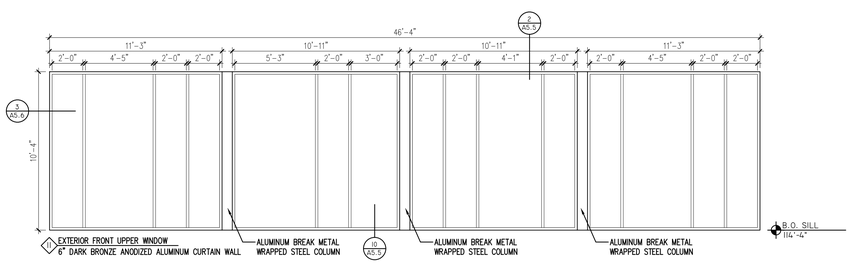
16 CONFERENCE ROOM DOOR
4-1/2" DARK BRONZE ANODIZED ALUMINUM



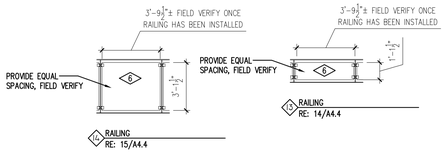
15 CONFERENCE ROOM WINDOW
4-1/2" DARK BRONZE ANODIZED ALUMINUM



10 EXTERIOR FRONT UPPER WINDOW
6" DARK BRONZE ANODIZED ALUMINUM CURTAIN WALL



10 EXTERIOR FRONT UPPER WINDOW
6" DARK BRONZE ANODIZED ALUMINUM CURTAIN WALL



17 RAILING
RE: 15/A4.4

13 RAILING
RE: 14/A4.4



12 COUNT OUT PASS THROUGH WINDOW
PAINTED HM

GENERAL NOTES

1. THE GLAZING CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS PRIOR TO PURCHASING OR FABRICATING ANY GLAZING SYSTEM COMPONENTS.
2. WINDOW CONTRACTOR TO COORDINATE WITH AUTO DOOR SUPPLIER.
3. AUTO SLIDING DOORS AND ADJACENT STOREFRONT WINDOWS ARE TO BE CONSTRUCTED AS A SINGLE ASSEMBLY AND THEREFORE WILL NOT REQUIRE ANY STRUCTURAL SUPPORTS. THE AUTO DOOR SUPPLIER WILL BE RESPONSIBLE TO COORDINATE WITH THE ADJACENT STOREFRONT TO ALLOW FOR A SINGLE ASSEMBLY SYSTEM. NO EXTRA WILL BE GIVEN FOR STRUCTURAL STEEL SUPPORTS.

ENERGY PERFORMANCE REQUIREMENTS

All exterior windows, glazed doors, storefront systems, curtain walls, and skylights shall comply with the thermal performance requirements of the approved 2024 IECC energy compliance documentation (COMcheck or approved energy analysis).

Unless noted otherwise on the approved energy compliance documentation:

Provide fenestration products with NFRC-certified thermal performance ratings.
Maximum U-factor: As indicated by the approved COMcheck report.
Maximum Solar Heat Gain Coefficient (SHGC): As indicated by the approved COMcheck report.
Visible Transmittance (VT): Where specified by the approved energy compliance documentation.
Air leakage shall comply with IECC Section C303.1.3 and shall be tested in accordance with the applicable AAMA/WDMA/CSA standards.
Install fenestration in accordance with the manufacturer's written instructions. Seal all perimeter joints to maintain continuity of the building air barrier, weather-resistive barrier, and thermal envelope.
Provide manufacturer documentation demonstrating compliance with the approved energy performance requirements prior to installation.

EXTERIOR STOREFRONT GLAZING: Provide 1-inch tinted insulating glass consisting of Solarban®90 low-e coating and integral Solargray tinted glass substrate, 1/2-inch argon-filled sealed airspace with warm-edge spacer, installed in a thermally broken aluminum storefront framing system.

Complete fenestration assembly shall have an NFRC-rated U-factor not greater than 0.36. SHGC: 0.17 maximum; VLT: approximately 26%. Provide project-specific glass performance data identifying visible transmittance, exterior reflectance and glass color.

Air leakage shall not exceed 0.06 cfm/sf when tested in accordance with ASTM E283. Submit project-specific NFRC or AAMA 507 thermal-performance documentation demonstrating compliance before fabrication.

GLASS TYPES

1	INTEGRALLY TINTED 1" INSULATED
2	INTEGRALLY TINTED 1" INSULATED TEMPERED
3	CLEAR 1"
4	CLEAR 1" TEMPERED
5	SPANDREL 1" INSULATED
6	CLEAR 1" TEMPERED

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350 South 200 East, #106
Salt Lake City, Utah 84111
P: 801.596.0691
DesignUtah.com

STATE OF UTAH
KRISTEN IRELAND VOROS
No. 7557079-0301
LICENSED ARCHITECT

HARMONS
SPANISH FORK

2643 East 400 North
Spanish Fork, Utah

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 14, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
CAD DWG FILE NO:
DRAWN BY:
DESIGNED BY:
DWG TYPE:
ARCHITECTURAL PHASE: BID SET
SHEET TITLE

WINDOW TYPES

A6.2

Hardware Schedule

Hardware Group 1 – Front Entry Door
Cylinders with interchangeable core to fit aluminum doors.
1 Sign "This door to remain unlocked when building is occupied." per IBC.
Door hardware to comply with IBC 1010.1.9.4. lock must be key-operated from the egress side.
Locking device must be readily distinguishable as locked.

Hardware Group 2 – Single Exit Door with Panic Hardware and delayed egress
3 Each Hinges Hager AB700 4-1/2" x 4-1/2" 26D
1 Each Panic Von Duprin CD CX98 EO US26D
1 Each Electrical Power Transfer Von Duprin EPT-10
1 Each Power Supply Von Duprin PS873
1 Each Closer LCN 4040XP Alum
1 Each Threshold Pemco 170 A
1 Each Door BottomPemco 368 CN
1 Each Weatherstrip Pemco 303 A
3 Each Silencers
1 Sign "Emergency Exit, push handle to sound alarm, hold handle and door will open after 15 seconds" per IBC

Hardware Group 3 – Single Exit Door with Panic Hardware
3 Each Hinges Hager AB700 4-1/2" x 4-1/2" 26D
1 Each Panic Von Duprin CD 98 EO US26D
1 Each Closer LCN 4040XP Alum
1 Each Threshold Pemco 170 A
1 Each Door BottomPemco 368 CN
1 Each Weatherstrip Pemco 303 A
3 Each Silencers
1 Sign "Emergency Exit, push handle to sound alarm"

Hardware Group 4 – Double Exit Door with Panic Hardware and delayed egress
6 Each Hinges Hager AB700 4-1/2" x 4-1/2" 26D
2 Each Panic Von Duprin CD CX98 47 EO US26D
1 Each Electrical Power Transfer Von Duprin EPT-10
1 Each Power Supply Von Duprin PS873
2 Each Closer LCN 4040XP Alum
2 Each Threshold Pemco 170 A
2 Each Door BottomPemco 368 CN
2 Each Weatherstrip Pemco 303 A
6 Each Silencers
1 Sign "Emergency Exit, push handle to sound alarm, hold handle and door will open after 15 seconds" per IBC

Hardware Group 5 – Fire Riser Door
6 Each Hinges Hager AB750 5" x 5" 26D
1 Each Lockset Best 93K 7 D 14D S3 626
inactive leaf only Manual Flushbolt Glenn Johnson FB6W 26D
1 Each Astragal Pemko 355 SNS
2 Each Closer LCN 4040XP-3049 EDA(hold open 180 degrees) Alum
1 Each Threshold Pemko 170 A
2 Each Door BottomPemco 368 CN
2 Each Weatherstrip Pemco 303 A
6 Each Silencers

Hardware Group 6 – Loading dock man door
3 Each Hinges Hager AB750 5" x 5" 26D
1 Each Lockset Best 93K 7 D 14D S3 626
1 Each Closer LCN 4040XP with hold open Alum
1 Each Threshold Pemko 170 A
1 Each Door BottomPemko 368 CN
1 Each Weatherstrip Pemko 303 A
3 Each Silencers
1 Each Door BottomPemko 411 ANBL
1 Each Kickplate Rockwood 24" 32D

Hardware Group 7 – Janitor/Storeroom/Electrical Door
3 Each Hinges Hager AB700 4-1/2" x 4-1/2" 26D
1 Each Lockset Best 93K 7 D 14D S3 626
1 Each Closer LCN 4040XP Alum
1 Each Stop Rockwood 440
2 Each Kickplate Rockwood 12" 32D
1 Each Smoke Seal
3 Each Silencers

Hardware Group 8 – Electrical Room
3 Each Hinges Hager AB700 4-1/2" x 4-1/2" 26D
1 Each Lockset Best 93K 7 D 14D S3 626
1 Each Panic Von Duprin CD 98 EO US26D
1 Each Closer LCN 4040XP Alum
1 Each Stop Rockwood 440
2 Each Kickplate Rockwood 12" 32D
1 Each Smoke Seal
3 Each Silencers

Hardware Group 9 – Main Floor Public Restroom Door
3 Each Hinges Hager AB700 4-1/2" x 4-1/2" 26D
1 Each Push Plate Rockwood No. 70 32D
1 Each Pull Rockwood 111 32D
1 Each Closer LCN 4040XP Alum
2 Each Kickplate Rockwood 12" 32D
1 Each Stop Rockwood 440
1 Each Sign Men/Women signage to comply with ADA Guidelines.
3 Each Silences

Hardware Group 10 – Main Floor Restroom Stall Door
3 Each Hinges Hager AB700 4-1/2" x 4-1/2" 26D
1 Each Lockset Best 93K 0 N 14D S3 626
1 Each Indicator Deadbolt Schlage B571 626
2 Each Kickplate Rockwood 12" 32D
1 Each Stop Rockwood 406
3 Each Silences

Hardware Group 11 – Singe Use Restroom Door
3 Each Hinges Hager AB700 4-1/2" x 4-1/2" 26D
1 Each Lockset Best 93K 7 L 14D S3 626
1 Each Closer LCN 4040XP Alum
1 Each Stop Rockwood 440
2 Each Kickplate Rockwood 12" 32D
3 Each Silencers

Hardware Group 12 – Break Room Door
3 Each Hinges Hager AB700 4-1/2" x 4-1/2" 26D
1 Each Lockset Best 93K 7 N 14D S3 626
1 Each Closer LCN 4040XP Alum
1 Each Stop Rockwood 440
2 Each Kickplate Rockwood 12" 32D
3 Each Silencers

Hardware Group 13 – Office Door
3 Each Hinges Hager AB700 4-1/2" x 4-1/2" 26D
1 Each Lockset Best 93K 7 AB 14D S3 626
1 Each Closer LCN 4040XP Alum
1 Each Stop Rockwood 440
2 Each Kickplate Rockwood 12" 32D
3 Each Silencers

Hardware Group 14 – Pharmacy Door
3 Each Hinges Hager AB700 4-1/2" x 4-1/2" 26D
1 Each Lockset Best 45H 7 TD 14 H 626
1 Each Closer LCN 4040 Alum
1 Each Stop Rockwood 440
2 Each Kickplate Rockwood 12" 32D
3 Each Silencers

Hardware Group 15 – OH Dock Door and Trash Chute Door
1 Each Padlock 1 ½" Shackle

Hardware Group 16 – Customer Service Door
3 Each Hinges Hager AB700 4-1/2" x 4-1/2" 26D
1 Each Lockset Best 93K 7 AB 14D S3 626
1 Each Electric Strike Folger Adams 310-2 24V DC Fail Safe 626
1 Each Power Supply
1 Each Closer LCN 4040XP Alum
1 Each Stop Rockwood 440
2 Each Kickplate Rockwood 12" 32D
3 Each Silencers

Hardware Group 17 – Count Out Room Door
3 Each Hinges Hager AB700 4-1/2" x 4-1/2" 26D
1 Each Lockset Best 93K 7 AB 14D S3 626
1 Each Electric Strike Folger Adams 310-2 24V DC Fail Safe 626
1 Each Power Supply
1 Each Closer LCN 4040XP Alum
1 Each Stop Rockwood 440
2 Each Kickplate Rockwood 12" 32D
3 Each Silencers

Hardware Group 18 – Stair to Office Mezzanine
3 Each Hinges Hager AB700 4-1/2" x 4-1/2" 26D
1 Each Lockset Best 93K 7 AB 14D S3 626
1 Each Closer LCN 4040XP Alum
1 Each Stop Rockwood 440
2 Each Kickplate Rockwood 12" 32D
3 Each Silencers

Hardware Group 19 – Side Sliding Pharmacy Grille
Hardware supplied by grille manufacturer

Hardware Group 20 – Outdoor Break Area Door
3 Each Hinges Hager AB750 5" x 5" 26D
1 Each Lockset Best 93K 7 G 14D S3 626
1 Each Closer LCN 4040 Alum
1 Each Threshold Pemko 170 A
1 Each Weatherstrip Pemko 303 A
3 Each Silencers

Hardware Group 21 – Aluminum Storefront
1 Each Cont. hinge Roton 780-112HD 626
1 Each Pull/Push IVES 9103 EZ 626
1 Each Closers LCN 2030 626

Hardware Group 22 – IT/Electrical Door
3 Each Hinges Hager AB700 4-1/2" x 4-1/2" 26D
1 Each Lockset OWNER PROVIDED, CONTRACTOR INSTALLED
1 Each Closer LCN 4040XP Alum
1 Each Stop Rockwood 440
2 Each Kickplate Rockwood 12" 32D
1 Each Smoke Seal
3 Each Silencers

General Notes

1. ALL DOORS ON THE ACCESSIBLE PATH OR CIRCULATION SHALL BE TESTED FOR A MAX OPENING FORCE OF 5 LBS, 10 LBS FOR EXTERIOR DOORS AND 15 LBS FOR FIRE RATED DOORS. SLIDING DOORS AND FORCES MUST BE APPLIED TO THE LATCH SIDE OF THE DOOR PER IBC 1010.1.3 AND 1010.3.1

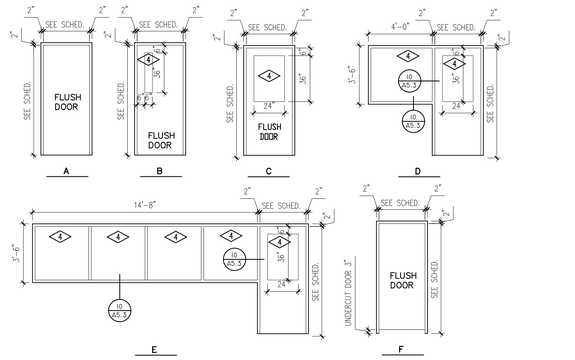
2. ALL REQUIRED SIGNAGE WILL BE PROVIDED BY THE CONTRACTOR PER CODE REQUIREMENTS OF SECTION 21 IN THE IBC AND ANSI STANDARD FOR ACCESSIBLE ACCESS AND ENTRY.

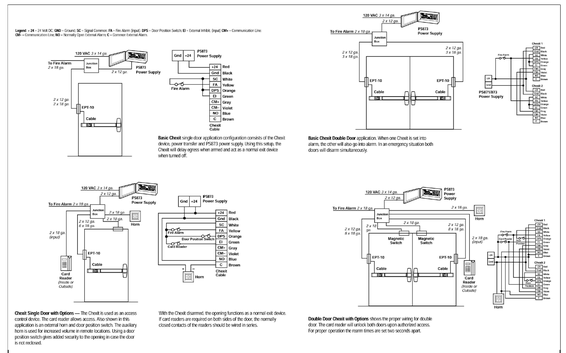
3. DELAYED EGRESS OPERATION NOTES:
a.a. The delayed egress locking system shall deactivate upon activation of the sprinkler system.
a.b. The delayed egress locking system shall deactivated upon loss of power allowing immediate free egress.
a.c. The delayed egress locking system shall deactivate by the fire command center.
a.d. An attempt to egress shall initiate an irreversible process that shall allow such egress in not more than 15 seconds when a physical effort to exit is applied for not more than 3 seconds.
a.e. A sign shall be provided on the door stating 'PUSH UNTIL ALARM SOUNDS. DOOR CAN BE OPENED IN 15 SECONDS'

DOOR SCHEDULE

DOOR NUMBER	DOOR TYPE	DOOR MATERIAL	DOOR SIZE W	DOOR SIZE H	DOOR SIZE T	FRAME MATERIAL	FRAME FIRE RATING	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS THRES.	HARDWARE GROUP	NOTES
101	SEE WINDOW SCHEDULE	ALUM	14'-0"	7'-8"		ALUM					1	
102	SEE WINDOW SCHEDULE	ALUM	14'-0"	7'-8"		ALUM					1	
103	SEE WINDOW SCHEDULE	ALUM	14'-0"	7'-8"		ALUM					1	
104	SEE WINDOW SCHEDULE	ALUM	14'-0"	7'-8"		ALUM					1	
105	A	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		17	
106	A	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		13	
107	A	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		7	
108	A	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		17	
109	A	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		9	
110	A	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		10	UNDERCUT DOOR 3". PROVIDE HANDLE ON BOTH SIDES OF THE DOOR
111	A	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		9	
112	A	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		10	UNDERCUT DOOR 3". PROVIDE HANDLE ON BOTH SIDES OF THE DOOR
113	A	WOOD	2'-2"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		10	UNDERCUT DOOR 3". PROVIDE HANDLE ON BOTH SIDES OF THE DOOR
114	A	WOOD	2'-2"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		10	UNDERCUT DOOR 3". PROVIDE HANDLE ON BOTH SIDES OF THE DOOR
115	A	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		11	
116	B	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		18	
117	J	ALUM	42'-0"	9'-4"		ALUM		4/A4.2			19	
118	J	ALUM	42'-0"	9'-4"		ALUM		4/A4.2			19	
119	A	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		14	
120	B	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		14	
121	A	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		7	
122	A	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		11	
123	M	HM	(2) 3'-0"	7'-0"	1-3/4"	HM		10/A5.2	14/A5.2	5/A5.2	4	INSULATED DOOR
124	L	HM	3'-0"	7'-0"	1-3/4"	HM		10/A5.2	14/A5.2	5/A5.2	20	INSULATED DOOR
125	M	HM	(2) 3'-0"	7'-0"	1-3/4"	HM		10/A5.2	14/A5.2	5/A5.2	5	INSULATED DOOR
126	K	STEEL	8'-0"	9'-0"		STEEL		5/A5.3	6/A5.3		15	INSULATED DOOR
127	K	STEEL	8'-0"	9'-0"		STEEL		5/A5.3	6/A5.3		15	INSULATED DOOR
128	K	STEEL	8'-0"	9'-0"		STEEL		5/A5.3	6/A5.3		15	INSULATED DOOR
129	L	HM	4'-0"	7'-0"	1-3/4"	HM		10/A5.2	14/A5.2		6	INSULATED DOOR
130		STEEL	4'-0"	3'-4"		STEEL					15	TRASH COMPACTOR ACCESS DOOR WITH PADLOCK
131	M	HM	(2) 3'-0"	7'-0"	1-3/4"	HM		10/A5.2	14/A5.2	5/A5.2	4	INSULATED DOOR
132	L	HM	3'-0"	7'-0"	1-3/4"	HM		10/A5.2	14/A5.2	5/A5.2	3	INSULATED DOOR
133	C	HM	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		13	
134	A	HM	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		7	
135	A	HM	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		7	
136	A	HM	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		7	
137	D	HM	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		13	
138	G	PLASTIC	see fixture sched	see fixture sched		STEEL		13/A5.2	13/A5.2			OWNER FURNISHED, CONTRACTOR INSTALLED DOOR. FRAME BY G.C.
139	G	PLASTIC	see fixture sched	see fixture sched		STEEL		13/A5.2	13/A5.2			OWNER FURNISHED, CONTRACTOR INSTALLED DOOR. FRAME BY G.C.
140	G	PLASTIC	see fixture sched	see fixture sched		STEEL		13/A5.2	13/A5.2			OWNER FURNISHED, CONTRACTOR INSTALLED DOOR. FRAME BY G.C.
141	G	PLASTIC	see fixture sched	see fixture sched		STEEL		13/A5.2	13/A5.2			OWNER FURNISHED, CONTRACTOR INSTALLED DOOR. FRAME BY G.C.
142	G	PLASTIC	see fixture sched	see fixture sched		STEEL		13/A5.2	13/A5.2			OWNER FURNISHED, CONTRACTOR INSTALLED DOOR. FRAME BY G.C.
143	G	PLASTIC	see fixture sched	see fixture sched		STEEL		13/A5.2	13/A5.2			OWNER FURNISHED, CONTRACTOR INSTALLED DOOR. FRAME BY G.C.
144	G	PLASTIC	see fixture sched	see fixture sched		STEEL		13/A5.2	13/A5.2			OWNER FURNISHED, CONTRACTOR INSTALLED DOOR. FRAME BY G.C.
145	G	PLASTIC	see fixture sched	see fixture sched		STEEL		13/A5.2	13/A5.2			OWNER FURNISHED, CONTRACTOR INSTALLED DOOR. FRAME BY G.C.
146	G	PLASTIC	see fixture sched	see fixture sched		STEEL		13/A5.2	13/A5.2			OWNER FURNISHED, CONTRACTOR INSTALLED DOOR. FRAME BY G.C.
147	G	PLASTIC	see fixture sched	see fixture sched		STEEL		13/A5.2	13/A5.2			OWNER FURNISHED, CONTRACTOR INSTALLED DOOR. FRAME BY G.C.
201	L	HM	3'-0"	7'-0"	1-3/4"	HM		10/A5.2	14/A5.2	5/A5.2	2	INSULATED DOOR
202	SEE WINDOW SCHEDULE	ALUM	3'-0"	8'-10"		ALUM					21	
203	A	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		7	
204	D	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		13	
205	D	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		13	
206	D	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		13	
207	D	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		13	
208	E	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		12	
209	C	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		13	
210	A	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		7	
211	A	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		9	
212	A	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		10	UNDERCUT DOOR 3". PROVIDE HANDLE ON BOTH SIDES OF THE DOOR
213	A	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		9	
214	A	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		10	UNDERCUT DOOR 3". PROVIDE HANDLE ON BOTH SIDES OF THE DOOR
215	A	WOOD	2'-2"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		10	UNDERCUT DOOR 3". PROVIDE HANDLE ON BOTH SIDES OF THE DOOR
216	N	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		7	
217	N	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		22	
218	C	WOOD	3'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		13	
219	A	HM	4'-0"	7'-0"	1-3/4"	HM	20 MIN.	6/A5.2	6/A5.2		7	INSULATED DOOR
220	A	HM	4'-0"	7'-0"	1-3/4"	HM	20 MIN.	6/A5.2	6/A5.2		8	INSULATED DOOR
221	A	HM	4'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		7	INSULATED DOOR
222	N	HM	4'-0"	7'-0"	1-3/4"	HM		6/A5.2	6/A5.2		22	INSULATED DOOR

DOOR TYPES





16 DELAYED EGRESS DIAGRAM
SCALE: NTS

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STATE OF UTAH
KRISTEN IRELAND VOROS
No. 7557079-0301
LICENSED ARCHITECT

HARMONS
SPANISH FORK

2643 EAST 400 NORTH
SPANISH FORK, UTAH

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 14, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
CAD DWG FILE NO:
DRAWN BY:
DESIGNED BY:
DWG TYPE:
ARCHITECTURAL PHASE: BID SET
SHEET TITLE

DOOR & HARDWARE SCHEDULES

A6.3

RCP SCOPE OF WORK NOTES

1. STRUCTURE THAT WILL BE EXPOSED SHALL BE PREPARED AND PAINTED INCLUDING ROOF STRUCTURE, ROOF DECK, CONDUIT, PLUMBING, PIPING, DUCTWORK, DIFFUSERS, WIRING, ETC.
2. PROVIDE VINYL FACED CEILING TILES IN THE FOOD PREP AREAS, TYP.
3. FINAL PAINTING SCHEME FOR THE VALANCE WILL BE PROVIDED BY THE OWNERS DECOR CONSULTANT. BIDDERS TO ASSUME THAT THERE WILL BE A TOTAL OF 15 SEPARATE COLORS. THERE WILL BE 3 SEPARATE HORIZONTAL BANDS WHICH WILL HAVE DECOR ELEMENTS COVERING THE TRANSITION BETWEEN COLORS. THERE WILL BE 15 SEPARATE PAINT AREAS REQUIRING A MASKED VERTICAL "HARD" LINE (TOTAL OF 14) BETWEEN THE PAINT AREAS THE FULL HEIGHT OF THE VALANCE.
4. CONTRACTOR TO PROVIDE CONTROL JOINTS IN THE VALANCE AS DIRECTED BY THE OWNER APPROXIMATELY EVERY 50'
5. IN THE MEZZANINE, PAINT EVERYTHING ABOVE 9'-4" BLACK (VERIFY COLOR WITH ARCHITECT PRIOR TO PAINTING). PAINT EVERYTHING BELOW 9'-4" A SEPARATE COLOR TO BE SELECTED BY ARCHITECT. PROVIDE A SOLID STRAIGHT LINE AT ALL WALLS TO CREATE TRANSITION LINE BETWEEN COLORS.
6. IN THE VESTIBULE AND SALES FLOOR, PAINT EVERYTHING ABOVE 24'-8" BLACK (VERIFY COLOR WITH ARCHITECT PRIOR TO PAINTING). PROVIDE A SOLID STRAIGHT LINE AT ALL WALLS TO CREATE TRANSITION LINE TO COLOR BELOW.

RCP KEYED NOTES

1. SKYLIGHT, RE: 12/A0.2
2. PREFINISHED STANDING SEAM METAL CANOPY OVER PAINTED STRUCTURAL STEEL FRAMING. PAINT UNDERSIDE OF METAL ROOFING
3. PAINTED STEEL TRELLIS, RE: WALL SECTIONS AND STRUCTURAL
4. GREASE HOOD WITH ONE-HOUR RATED DUCT WORK, RE: MECHANICAL
5. STEAM HOOD, RE: MECHANICAL
6. PROVIDE STAINLESS STEEL CLOSURE FROM TOP OF OVEN TO CEILING.

RCP LEGEND

CEILING FINISH — A|10'-0" — CEILING ELEVATION

- A. SUSPENDED 2X4 LAY-IN ACOUSTIC CEILING TILE AND GRID. SEE DETAILS 4 & 15 ON SHEET A7.2. USE VINYL FACED TILES IN FOOD PREP AREAS
- B. PAINTED SUSPENDED GYP. BOARD CEILING. SEE DETAILS 3 & 7 ON SHEET A7.2
- C. OPEN TO STRUCTURE ABOVE. PREPARE AND PAINT, INCLUDING ROOF STRUCTURE, ROOF DECK, CONDUIT, PLUMBING, PIPING, DUCTWORK, DIFFUSERS, REFRIGERATION LINES, WIRING, ETC.
- C1. OPEN TO STRUCTURE ABOVE.
- D. PREFABRICATED FREEZER/COOLER BOX PANELS
- E. SUSPENDED PAINTED GYP. BOARD VALANCE, RE: 1/A7.2. PROVIDE LEVEL 4 FINISH AND ONE COAT OF SHEET ROCK FIRST COAT AND PRIME TO PREPARE FOR NEW PAINT OR WALL COVERING AS OCCURS. RE: DECOR.
- F. SUSPENDED EIFS CEILING/SOFFIT SYSTEM

REFLECTED CEILING PLAN
SCALE: 3/32" = 1'-0"

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STATE OF UTAH
KRISTEN IRELAND VOROS
No. 7557079-0301
LICENSED ARCHITECT

HARMONS SPANISH FORK

2643 East 400 North
Spanish Fork, Utah

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 14, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
CAD DWG FILE NO:
DRAWN BY:
DESIGNED BY:
DWG TYPE:
ARCHITECTURAL PHASE: BID SET

SHEET TITLE

REFLECTED CEILING PLAN

A7.1

RCP SCOPE OF WORK NOTES

1. STRUCTURE THAT WILL BE EXPOSED SHALL BE PREPARED AND PAINTED INCLUDING ROOF STRUCTURE, ROOF DECK, CONDUIT, PLUMBING, PIPING, DUCTWORK, DIFFUSERS, WIRING, ETC.
2. PROVIDE VINYL FACED CEILING TILES IN THE FOOD PREP AREAS, TYP.
3. FINAL PAINTING SCHEME FOR THE VALANCE WILL BE PROVIDED BY THE OWNERS DECOR CONSULTANT. BIDDERS TO ASSUME THAT THERE WILL BE A TOTAL OF 15 SEPARATE COLORS. THERE WILL BE 3 SEPARATE HORIZONTAL BANDS WHICH WILL HAVE DECOR ELEMENTS COVERING THE TRANSITION BETWEEN COLORS. THERE WILL BE 15 SEPARATE PAINT AREAS REQUIRING A MASKED VERTICAL "HARD" LINE (TOTAL OF 14) BETWEEN THE PAINT AREAS THE FULL HEIGHT OF THE VALANCE.
4. CONTRACTOR TO PROVIDE CONTROL JOINTS IN THE VALANCE AS DIRECTED BY THE OWNER APPROXIMATELY EVERY 50'
5. IN THE MEZZANINE, PAINT EVERYTHING ABOVE 9'-4" BLACK (VERIFY COLOR WITH ARCHITECT PRIOR TO PAINTING). PAINT EVERYTHING BELOW 9'-4" A SEPARATE COLOR TO BE SELECTED BY ARCHITECT. PROVIDE A SOLID STRAIGHT LINE AT ALL WALLS TO CREATE TRANSITION LINE BETWEEN COLORS.
6. IN THE VESTIBULE AND SALES FLOOR, PAINT EVERYTHING ABOVE 24'-8" BLACK (VERIFY COLOR WITH ARCHITECT PRIOR TO PAINTING). PROVIDE A SOLID STRAIGHT LINE AT ALL WALLS TO CREATE TRANSITION LINE TO COLOR BELOW.

RCP KEYED NOTES

1. SKYLIGHT, RE: 12/A0.2
2. PREFINISHED STANDING SEAM METAL CANOPY OVER PAINTED STRUCTURAL STEEL FRAMING. PAINT UNDERSIDE OF METAL ROOFING
3. PAINTED STEEL TRELLIS, RE: WALL SECTIONS AND STRUCTURAL
4. GREASE HOOD WITH ONE-HOUR RATED DUCT WORK, RE: MECHANICAL
5. STEAM HOOD, RE: MECHANICAL
6. PROVIDE STAINLESS STEEL CLOSURE FROM TOP OF OVEN TO CEILING.

RCP LEGEND

CEILING FINISH — A | 10'-0" — CEILING ELEVATION

- A. SUSPENDED 2X4 LAY-IN ACOUSTIC CEILING TILE AND GRID. SEE DETAILS 4 & 15 ON SHEET A7.2. USE VINYL FACED TILES IN FOOD PREP AREAS
- B. PAINTED SUSPENDED GYP. BOARD CEILING. SEE DETAILS 3 & 7 ON SHEET A7.2
- C. OPEN TO STRUCTURE ABOVE. PREPARE AND PAINT, INCLUDING ROOF STRUCTURE, ROOF DECK, CONDUIT, PLUMBING, PIPING, DUCTWORK, DIFFUSERS, REFRIGERATION LINES, WIRING, ETC.
- C1. OPEN TO STRUCTURE ABOVE.
- D. PREFABRICATED FREEZER/COOLER BOX PANELS
- E. SUSPENDED PAINTED GYP. BOARD VALANCE, RE: 1/A7.2. PROVIDE LEVEL 4 FINISH AND ONE COAT OF SHEET ROCK FIRST COAT AND PRIME TO PREPARE FOR NEW PAINT OR WALL COVERING AS OCCURS. RE: DECOR.
- F. SUSPENDED EIFS CEILING/SOFFIT SYSTEM

REFLECTED CEILING PLAN
SCALE: 3/32" = 1'-0"

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STATE OF UTAH — KRISTEN IRELAND VOROS — No. 7557079-0301 — LICENSED ARCHITECT

HARMONS
SPANISH FORK

2643 East 400 North
Spanish Fork, Utah

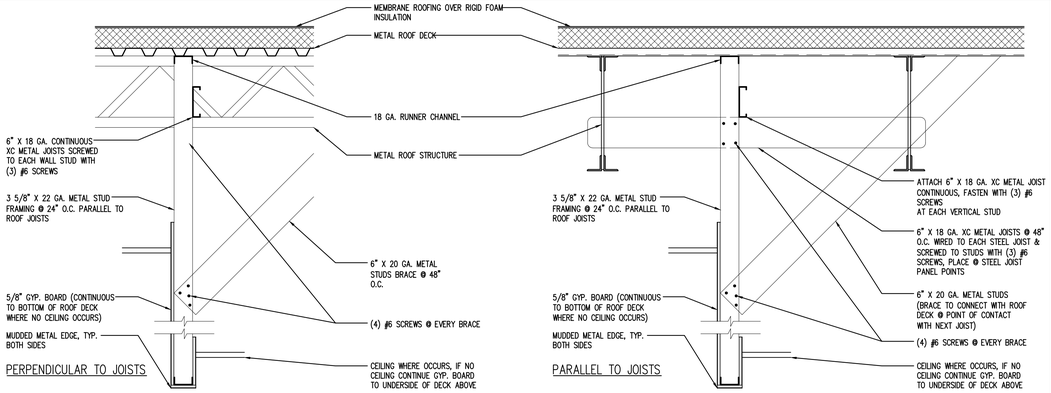
MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 14, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
CAD DWG FILE NO:
DRAWN BY:
DESIGNED BY:
DWG TYPE:
ARCHITECTURAL PHASE: BID SET

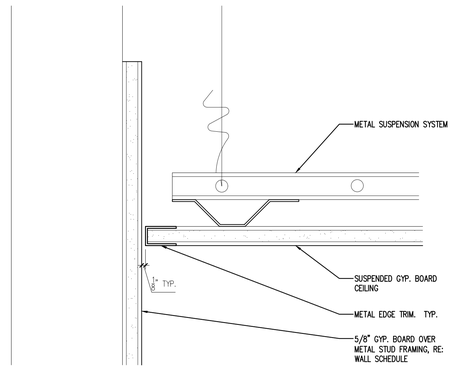
SHEET TITLE

MEZZANINE REFLECTED CEILING PLAN

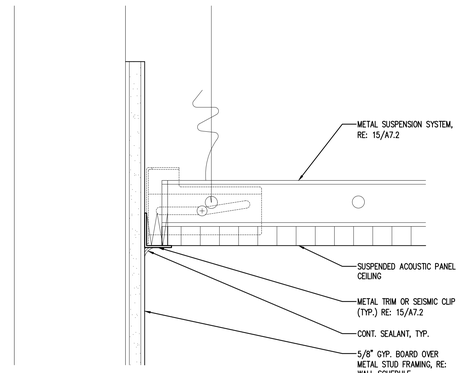
A7.1A



1 VALANCE DETAILS
SCALE: 1" = 1'-0"



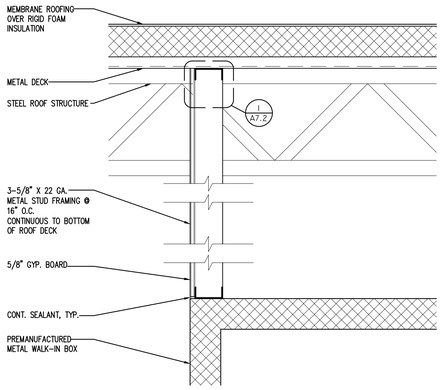
3 GYP. BOARD CEILING EDGE DETAIL
SCALE: 6" = 1'-0"



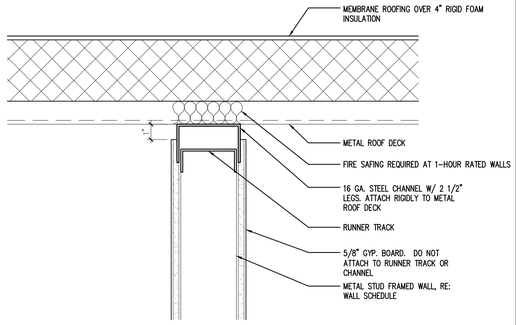
4 ACOUSTIC CEILING SEISMIC CLIP EDGE DETAIL
SCALE: 6" = 1'-0"

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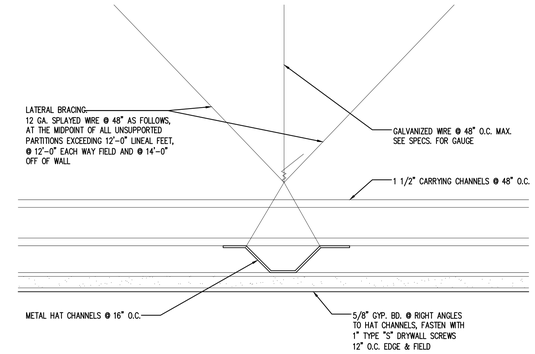




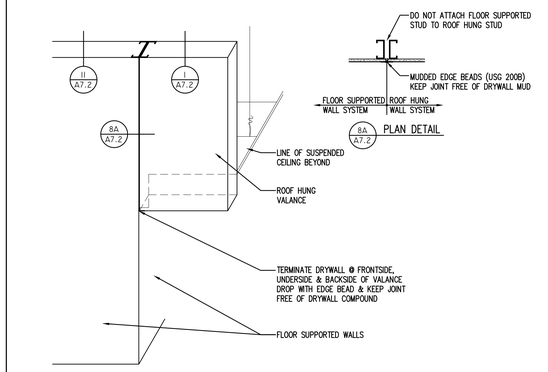
5 COOLER/FREEZER CLOSURE DETAIL
SCALE: 1-1/2" = 1'-0"



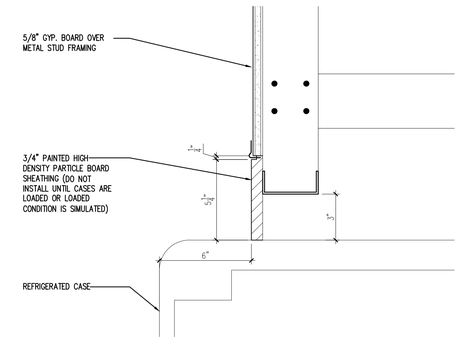
6 SLIP TRACK DETAIL
SCALE: 3" = 1'-0"



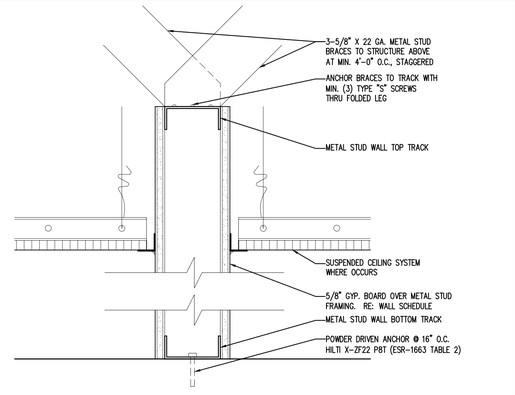
7 GYP. BOARD CEILING DETAIL
SCALE: 6" = 1'-0"



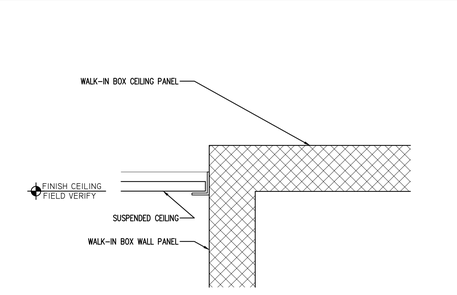
8 CONTROL JOINT @ VALANCE
SCALE: 1" = 1'-0"



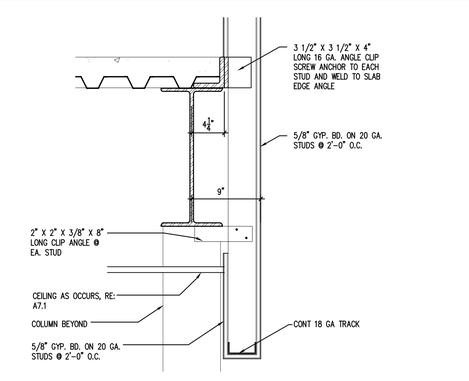
9 VALANCE CLOSURE DETAIL @ TOP OF CASE
SCALE:3" = 1'-0"



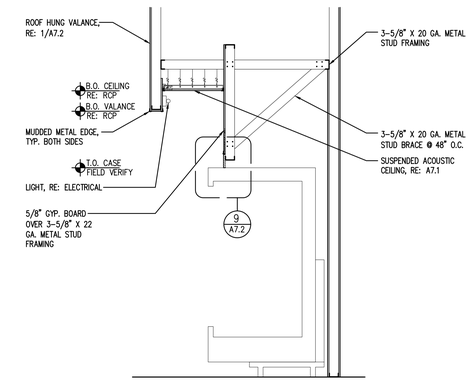
10 WALL BRACING DETAIL
SCALE: 3" = 1'-0"



11 COOLER/FREEZER WALL TO CEILING DETAIL
SCALE: 3" = 1'-0"

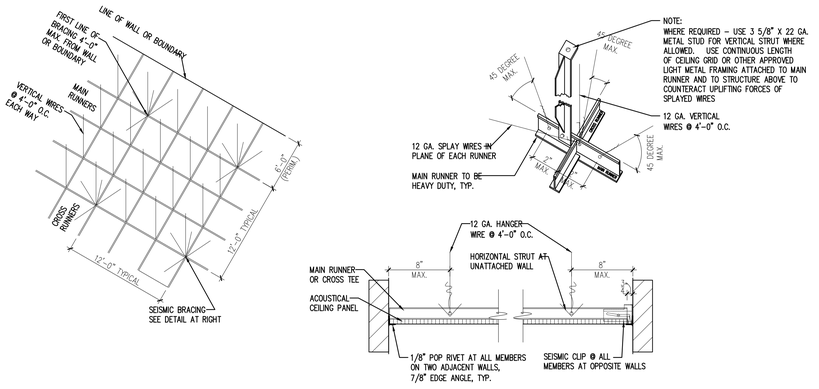


12 VALANCE DETAIL BELOW MEZZANINE
SCALE: 1-1/2" = 1'-0"



13 REFRIGERATED CASE DETAIL
SCALE: 1/2" = 1'-0"

12 VALANCE SOFFIT DETAIL
SCALE: 1" = 1'-0"



15 TYP. SUSPENDED CEILING BRACING DETAILS
NTS

NOTES:
1. ALL SPLAY WIRES TO BE IN LINE WITH ATTACHED COMPONENT.

2. ALL SPLAY WIRES TO BE TAUT AND TIED BOTH ENDS WITH MINIMUM OF 3 TURNS IN 1" OF RUN.

3. AREAS SMALLER THAN 1000 SQ. FT. WITH WALLS ON 4 SIDES EXTENDING TO STRUCTURE NEED NOT BE BRACED.

4. COMPRESSIVE STRUTS REQUIRED @ 12'-0" O.C.

5. ALL CEILING MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO SUSPENDED CEILING GRID, IN ADDITION 12 GA. HANGER WIRES SHALL BE ATTACHED TO THE GRID WITHIN 3" OF EACH CORNER OF THE LIGHT HOUSING AND TO THE STRUCTURE ABOVE (THESE WIRES MAY BE SLACK).

6. WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT NOR SHALL THEY BE CLOSER THAN 6" FROM ANY UNBRACED HORIZONTAL PIPING OR DUCTWORK, A TRAPEZE OR SIMILAR DEVICE SHALL BE USED WHERE OBSTRUCTIONS OCCUR.

7. ALL INFORMATION INDICATED HEREIN SHALL BE REQUIRED TO CONFORM TO CISCA SEISMIC STANDARDS AND GUIDELINES, LATEST EDITION. VERIFY ALL DISCREPANCIES WITH ARCHITECT PRIOR TO PURCHASE AND FABRICATION.

8. CEILING TO BE SUSPENDED FROM STRUCTURAL MEMBERS OR FRAMING RUN BETWEEN STRUCTURAL MEMBERS DO NOT SUSPEND CEILINGS FROM METAL ROOF DECK.

HARMONS
SPANISH FORK

2643 East 400 North
Spanish Fork, Utah

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 14, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
CAD DWG FILE NO:
DRAWN BY:
DESIGNED BY:
DWG TYPE:
ARCHITECTURAL PHASE: BID SET

SHEET TITLE

RCP DETAILS

A7.2

STRUCTURAL NOTES :

A. GENERAL

1. THE STRUCTURAL NOTES ARE INTENDED TO COMPLEMENT THE PROJECT SPECIFICATIONS WHICH ARE PART OF THE CONSTRUCTION DOCUMENTS. SPECIFIC NOTES AND DETAILS ON THE DRAWINGS SHALL GOVERN OVER THE STRUCTURAL NOTES AND TYPICAL DETAILS.
2. THESE DRAWINGS (AND, WHERE APPLICABLE, ACCOMPANYING WRITTEN SPECIFICATIONS) ARE THE ONLY CONTRACT DOCUMENTS PROVIDED BY ARW ENGINEERS FOR THE PROJECT REPRESENTED HEREIN. NOTHING IN ANY DIGITAL MODEL OR DIGITAL FILE RELATED TO THIS PROJECT SHALL BE TAKEN TO SUPERSEDE ANY INFORMATION SHOWN IN THESE DRAWINGS (INCLUDING, BUT NOT LIMITED TO, DIMENSIONS, SIZES, ETC).
3. THE ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. THE STRUCTURAL DRAWINGS ARE SUPPLEMENTARY TO AND MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND OTHER CONSULTANTS DRAWINGS. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN CASE OF CONFLICT, FOLLOW THE MOST STRINGENT REQUIREMENT AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
4. SEE SPECIFICATIONS FOR REQUIRED SUBMITTALS. SUBMITTALS SHALL BE MADE IN A TIMELY MANNER AS INDICATED IN SPECIFICATIONS. REVIEW OF SUBMITTALS BY ARW ENGINEERS IS FOR GENERAL COMPLIANCE ONLY AND IS NOT INTENDED AS APPROVAL. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SIZES, DIMENSIONS, AND ELEVATIONS ON SUBMITTALS AS RELATED TO DESIGN DOCUMENTS. PREPARATION OF SHOP DRAWINGS FOR STRUCTURAL ELEMENTS WILL REQUIRE INFORMATION (I.E. DIMENSIONS, ETC.) FOUND IN THE ARCHITECTURAL, STRUCTURAL, AND OTHER CONSULTANTS DRAWINGS.
5. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE. IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN ON CONTRACT DOCUMENTS, CONTRACTOR SHALL NOTIFY ARCHITECT PRIOR TO FABRICATION OR CONSTRUCTION OF ANY AFFECTED ELEMENTS.
6. THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL LOCATIONS AND SIZES OF MECHANICAL EQUIPMENT OR OTHER EQUIPMENT BEFORE FABRICATING AND ERECTING STRUCTURAL ELEMENTS. SIZES AND LOCATIONS THAT DIFFER FROM THOSE SHOWN ON THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT.
7. THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE ARCHITECT FOR ARCHITECT AND/OR ENGINEER APPROVAL BEFORE PROCEEDING WITH ANY CHANGES, MODIFICATIONS, OR SUBSTITUTIONS.
8. OBSERVATION VISITS TO THE SITE BY ARW ENGINEERS FIELD REPRESENTATIVES SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
9. DURING AND AFTER CONSTRUCTION, BUILDER AND/OR OWNER SHALL KEEP LOADS ON STRUCTURE WITHIN THE LIMITS OF DESIGN LOADS AS NOTED IN THESE DOCUMENTS.
10. TYPICAL OR SIMILAR DETAILS AND SECTIONS SHALL APPLY WHERE SPECIFIC DETAILS ARE NOT SHOWN. TYPICAL OR SIMILAR DETAILS REFER TO THE CONDITION ADDRESSED AND ARE NOT NECESSARILY DETAILS LABELED "TYPICAL" OR "SIMILAR" IN THE PLANS AND DOCUMENTS.
11. DRAWINGS AND DETAILS HAVE BEEN PREPARED WITH THE INTENT TO VISUALLY REPRESENT INFORMATION PROVIDED IN SCALED FORM; HOWEVER CONTRACTOR/SUPPLIERS SHOULD NOT SCALE PLANS OR DETAILS FOR DIMENSIONAL INFORMATION.
12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN AND INSTALL ADEQUATE TEMPORARY SHORING AND BRACING FOR ALL STRUCTURAL ELEMENTS UNTIL THE ENTIRE STRUCTURAL SYSTEM IS COMPLETED.
13. ENGINEER SHALL NOT BE RESPONSIBLE FOR ACTIVITIES UNDER CONTROL OF THE CONTRACTOR SUCH AS CONSTRUCTION SITE SAFETY, MEANS, METHODS AND SEQUENCING OF CONSTRUCTION. ENGINEER SHALL NOT BE RESPONSIBLE FOR FABRICATION, ERECTION AND CONSTRUCTION REQUIREMENTS AS PRESCRIBED BY OSHA OR OTHER REGULATORY AGENCIES REGARDLESS OF INDICATIONS IN THESE DOCUMENTS.
14. NOTICE OF COPYRIGHT: THESE STRUCTURAL DRAWINGS ARE HEREBY COPYRIGHTED BY ARW ENGINEERS, ALL RIGHTS RESERVED. THESE DOCUMENTS DEFINE A STRUCTURE AND ARE INSTRUMENTS OF SERVICE, FOR ONE USE ONLY. REPRODUCTION AND DISTRIBUTION OF THESE DRAWINGS IS ONLY ALLOWED AS REQUIRED FOR REGULATORY AGENCIES AND FOR CONVEYANCE OF INFORMATION TO PARTIES INVOLVED IN THE CONSTRUCTION OF THIS PROJECT. THESE DOCUMENTS SHALL NOT BE REPRODUCED OR COPIED, IN PART OR WHOLE BY ANY PARTY FOR USE IN PREPARATION OF SHOP DRAWINGS OR OTHER SUBMITTALS.
15. WHERE THE WORD "SHALL" OCCURS IN THESE DRAWINGS AND ANY ACCOMPANYING SPECIFICATIONS, IT IS CONSIDERED A MANDATORY OBLIGATION AND SYNONYMOUS WITH THE PHRASE "HAS DUTY TO".

B. STATEMENT OF SPECIAL INSPECTIONS AND SPECIAL INSPECTORS

1. THE DESIGNATED SEISMIC/WIND SYSTEMS AND SEISMIC/WIND-FORCE-RESISTING SYSTEMS THAT ARE SUBJECT TO SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC SECTION 1705.12 AND 1705.13 ARE IDENTIFIED IN THE SPECIAL INSPECTION SCHEDULE ON SHEET S0.5, S0.6, AND S0.7.
2. SPECIAL INSPECTIONS AND TESTING ARE TO BE PROVIDED AS REQUIRED BY IBC SECTIONS 1704 THROUGH 1705 AND OTHER APPLICABLE SECTIONS OF THE IBC. THE TYPE AND FREQUENCY OF TESTING AND SPECIAL INSPECTIONS SHALL BE AS NOTED IN THE SPECIAL INSPECTION SCHEDULE, JOB SPECIFICATIONS, AND ACCORDANCE WITH IBC SECTION 110 AND CHAPTER 17. CONTRACTOR SHALL COORDINATE AND COOPERATE WITH REQUIRED INSPECTIONS.
3. ALL TESTING AND SPECIAL INSPECTION SHALL BE PROVIDED BY A QUALIFIED INDEPENDENT SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH IBC 1704 AND AS OUTLINED IN THE JOB SPECIFICATIONS. REPORTS OF FINDINGS OR DISCREPANCIES SHALL BE NOTED AND FORWARDED TO THE CONTRACTOR, ARCHITECT, ENGINEERS, AND BUILDING OFFICIAL IN A TIMELY MANNER.
4. STRUCTURAL OBSERVATION VISITS SHALL BE PERFORMED BY A REPRESENTATIVE FROM ARW ENGINEERS IN ACCORDANCE WITH THE CONTRACT AS NEEDED TO OBSERVE THE CONSTRUCTION OF CRITICAL BUILDING ELEMENTS (I.E. FOOTINGS, BRACED FRAMES, MOMENT FRAMES, SHEAR WALLS, DRAG STRUTS AND THEIR CONNECTIONS, COLLECTORS, AND ROOF AND FLOOR DIAPHRAGMS, ETC.). STRUCTURAL OBSERVATION REPORTS FOR EACH VISIT SHALL BE SENT DIRECTLY TO THE ARCHITECT FOR DISTRIBUTION TO THE CONTRACTOR AND BUILDING OFFICIAL. STRUCTURAL OBSERVATION VISITS SHALL NEITHER BE CONSTRUED AS SPECIAL INSPECTION NOR APPROVAL OF COMPLETED CONSTRUCTION.
5. IN ACCORDANCE WITH IBC 1704.4, THE CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER. THE STATEMENT SHALL BE SUBMITTED PRIOR TO THE CONSTRUCTION OF ANY SEISMIC / WIND-FORCE-RESISTING SYSTEM OR DESIGNATED SEISMIC/WIND SYSTEM.

C. BASIS OF DESIGN

1. GOVERNING BUILDING CODE : INTERNATIONAL BUILDING CODE (IBC) 2024
   RISK CATEGORY : II
2. SUSPENDED FLOOR LOADS
   a. LIVE LOAD = 100 PSF, 150 PSF (STORAGE / MECHANICAL MEZZANINE)
   b. DEAD LOAD = 68 PSF
3. ROOF LOADS
   a. MINIMUM ROOF SNOW LOAD, P_m : 30 PSF
   b. FLAT-ROOF SNOW LOAD, P_f : 44 PSF
      1. GROUND SNOW LOAD, P_g : 54 PSF
      2. ALLOWABLE STRESS DESIGN GROUND SNOW LOAD $P_{g(adj)}$: 38 PSF
      3. SNOW EXPOSURE FACTOR, C_e : 1.0
      4. THERMAL FACTOR, C_t : 1.16
      5. SLOPE FACTOR, C_S : 1.0
      6. SNOW DRIFT : SHOWN ON PLANS WHERE APPLICABLE.
   c. LIVE LOAD = 20 PSF
   d. DEAD LOAD = 20 PSF
   e. RAIN INTENSITY, i : 1.66 IN/HR
4. WIND DESIGN
   a. BASIC WIND SPEED (3 SECOND GUST) : 103 MPH
   b. ALLOWABLE STRESS DESIGN WIND SPEED, V_{ASD} : 80 MPH
   c. WIND EXPOSURE : C
   d. INTERNAL PRESSURE COEFFICIENT, GC_{Pi} : +/-0.18
   e. COMPONENT AND CLADDING DESIGN WIND PRESSURE SHALL BE AS REQUIRED PER ASCE 7-22.
5. SEISMIC DESIGN :
   a. SEISMIC IMPORTANCE FACTOR, I_E : 1.0
   b. SITE CLASS : D
   c. MAPPED SPECTRAL RESPONSE ACCELERATIONS : S_S = 1.55 , S_1 = 0.57
   d. SPECTRAL RESPONSE COEFFICIENTS : S_{DS} = 1.02 , S_{D1} = 0.79
   e. SEISMIC DESIGN CATEGORY : D
   f. BASIC SEISMIC-FORCE-RESISTING SYSTEM : SPECIAL REINFORCED MASONRY SHEAR WALLS
   g. DESIGN BASE SHEAR : V_{MS} = 0.226*W , V_{ELW} = 0.226*W
   h. SEISMIC RESPONSE COEFFICIENT, C_S : 0.226
   i. RESPONSE MODIFICATION FACTOR, R : 5
   j. ANALYSIS PROCEDURE : STATIC

D. FOUNDATION

1. GENERAL
   a. DESIGN SOIL PRESSURE : 2500 PSF
   b. SOILS REPORT BY : CMT TECHNICAL SERVICES
      REPORT # : 105590
      DATED : MAY 29, 2026
   c. SOIL PREPARATION UNDER FOUNDATIONS AND SLABS-ON-GRADE SHALL BE IN ACCORDANCE WITH THE SOILS REPORT.
   d. TOP OF FOOTING ELEVATIONS SHOWN ON THE FOOTING AND FOUNDATION PLAN ARE BASED ON PRELIMINARY GRADING INFORMATION AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION. STEPS WHERE SHOWN ARE AT APPROXIMATE LOCATIONS. ACTUAL STEP LOCATIONS SHALL BE AT THE CONTRACTOR'S DISCRETION BASED UPON FIELD CONDITIONS. ALL EXTERIOR FOUNDATIONS SHALL BEAR A MINIMUM OF 30" BELOW LOWEST ADJACENT FINAL GRADE.
   e. ALL WALLS (EXCEPT CANTILEVERED RETAINING WALLS) SHALL BE ADEQUATELY BRACED AGAINST LATERAL MOVEMENT PRIOR TO BACKFILLING. DESIGN AND ERECTION OF BRACING/SHORING SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. BRACING SHALL REMAIN IN PLACE UNTIL SUPPORTING STRUCTURAL ELEMENTS ARE IN PLACE AND HAVE ATTAINED FULL STRENGTH.
   f. UNLESS NOTED OTHERWISE, ALL FOOTINGS AT COLUMNS SHALL BE CENTERED BELOW COLUMNS.
   g. UNLESS NOTED OTHERWISE, ALL FOOTINGS SHALL HAVE VERTICAL FACES FORMED WITH STANDARD FORMING MATERIALS (WOOD, METAL, ETC.) WITH PRIOR APPROVAL OF ARCHITECT AND ENGINEER. CONCRETE FOR FOOTINGS CAN BE PLACED IN EXCAVATED SOIL "FORMS" PROVIDED THAT THE DIMENSIONS ARE INCREASED 3" ON ALL SIDE.
   h. UNLESS NOTED AND DETAILED OTHERWISE, NO PIPES, DUCTS, CONDUITS, NON-STRUCTURAL ITEMS, ETC. SHALL BE BURIED BELOW OR EMBEDDED IN FOOTINGS / FOUNDATION WALLS. SEE TYPICAL DETAIL FOR CONDITIONS WHERE THESE ITEMS CROSS OR RUN PARALLEL TO FOOTINGS / FOUNDATION WALLS.

E. CONCRETE

1. ALL CONCRETE MIX DESIGNS SHALL COMPLY WITH THE PROJECT SPECIFICATIONS AND THE REQUIREMENTS LISTED BELOW :

ELEMENT	EXPOSURE CATEGORY F	S	W	C	f'c, AT 28 DAYS (PSI)	MAX. W/C RATIO	AIR CONTENT %	MAX. AGGREGATE SIZE
Interior Slabs on Grade	F0	S0	W0	C0	3000	---	---	---
Interior Slabs on Metal Deck	F0	S0	W0	C0	3000	---	---	---
FTG / Grade Beams / FDN Walls[a]	F0	S0	W1	C0	3000	---	---	1"
FTG / Grade Beams / FDN Walls[b]	F2	S0	W1	C1	4500	0.45	Note c	1"
Retaining Walls	F2	S0	W1	C1	4500	0.45	Note c	1"

   NOTES :
   a. ELEMENT IS PERMANENTLY BURIED IN SOIL.
   b. ELEMENT IS NOT PERMANENTLY BURIED IN SOIL.
   c. TOTAL AIR CONTENT FOR CONCRETE EXPOSED TO CYCLES OF FREEZING AND THAWING SHALL BE DETERMINED IN ACCORDANCE WITH THIS SCHEDULE. TOLERANCE ON AIR CONTENT AS DELIVERED SHALL BE +/- 1.5 PERCENT.

NOMINAL MAXIMUM AGGREGATE SIZE, IN.	TARGET AIR CONTENT, PERCENT F1	F2 AND F3
3/8	6	7.5
1/2	5.5	7
3/4	5	6
1	4.5	6
1-1/2	4.5	5.5
2	4	5
3	3.5	4.5

2. WATER USED IN MIXING CONCRETE SHALL CONFORM TO ASTM C1602.
3. NO CONDUIT, PIPES, DUCTS, SLEEVES, ETC. SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER. NO ALUMINUM PRODUCTS SHALL BE EMBEDDED IN CONCRETE. PENETRATIONS THRU STRUCTURAL CONCRETE ELEMENTS MUST BE APPROVED BY THE ENGINEER AND SHALL BE BUILT INTO THE ELEMENT PRIOR TO CONCRETE PLACEMENT.
4. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, ETC. TO BE CAST IN TO CONCRETE, AND FOR EXTENT AND LOCATION OF DEPRESSIONS, CURBS, RAMPS, ETC.
5. UNLESS NOTED OTHERWISE, MINIMUM REINFORCING IN ALL CONCRETE FOUNDATION WALLS SHALL BE AS FOLLOWS:

THICKNESS	TOP & BOTTOM BARS	VERTICAL	HORIZONTAL
8"	(2) #5	#4 AT 18"o.c.	#4 AT 12"o.c.
10"	(2) #5	#5 AT 16"o.c.	#5 AT 12"o.c.
12"	(2) #5	#4 AT 18"o.c. EA FACE	#4 AT 18"o.c. EA FACE

6. UNLESS NOTED OTHERWISE, CONCRETE SLABS ON EARTH SHALL BE REINFORCED AS FOLLOWS:
   4" THICK - #3 AT 18"o.c. EACH WAY
   REINFORCING SHALL BE CONTINUOUSLY SUPPORTED AT 36"o.c. MAXIMUM SPACING.
7. UNLESS NOTED OTHERWISE, FOR NON-DETAILED OPENINGS IN CONCRETE WALLS LARGER THAN 12" AND SMALLER THAN 24" IN ANY DIRECTION ADD (2) #5 BARS ON ALL SIDES IN ADDITION TO REGULAR WALL REINFORCING AND EXTEND 24" EACH WAY BEYOND OPENING. IF 24" IS NOT AVAILABLE ON EVERY SIDE, NOTIFY STRUCTURAL ENGINEER FOR FURTHER DIRECTION. OPENINGS SHALL HAVE A MINIMUM OF 12" OF CONCRETE ABOVE THE OPENING, TYP.
8. CONSTRUCTION JOINTS NOT SHOWN ON THE PLANS SHALL BE MADE AND LOCATED SO AS TO NOT IMPAIR THE STRENGTH OF THE STRUCTURE AND AS APPROVED BY THE STRUCTURAL ENGINEER. PROVIDE 2 X 4 (SHAPED) KEYWAY IN ALL VERTICAL AND HORIZONTAL JOINTS UNLESS NOTED OR DETAILED OTHERWISE. ALL STEEL REINFORCING SHALL BE CONTINUOUS THROUGH COLD JOINTS UNLESS NOTED OTHERWISE. SEE TYPICAL DETAILS FOR COLD/CONSTRUCTION JOINTS FOR SLABS ON GRADE.
9. WHERE NEW CONCRETE IS PLACED AGAINST PREVIOUSLY HARDENED CONCRETE, THE JOINT SHALL BE CLEAN AND FREE OF LAITANCE. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, CONSTRUCTION JOINTS SHALL BE PREWETTED AND STANDING WATER REMOVED.

F. ANCHOR BOLTS/EMBEDDED BOLTS

1. ALL ANCHOR BOLTS SHALL HAVE ASTM A-563 HEAVY HEX NUT AND ASTM F-436 WASHERS AT STANDARD OR OVERSIZED HOLES PER AISC SPECIFICATION TABLE J3.3. WHERE HOLE SIZES DO NOT COMPLY WITH THE LIMITATIONS FOR OVERSIZED HOLES THE STRUCTURAL ENGINEER SHALL BE NOTIFIED TO DETERMINE STEEL PLATE WASHER REQUIREMENTS. ANCHOR BOLTS SHALL COMPLY WITH THE FOLLOWING :
   a. AT ALL OTHER ANCHOR BOLTS (UNLESS NOTED OTHERWISE) - ASTM F1554 GRADE 36 HEADED BOLTS. (ASTM A36 THREADED ROD MAY BE USED WITH DOUBLE NUT AND WASHER.)
2. EMBEDDED BOLTS IN MASONRY SHALL BE (UNLESS NOTED OTHERWISE) ASTM A-307 GRADE HEADED BOLTS.
3. SEE TYPICAL ANCHOR BOLT DETAIL FOR DEFINITIONS OF EMBEDMENT LENGTH, ETC.
4. FURNISH TEMPLATES AND OTHER DEVICES AS NECESSARY FOR PRESETTING ALL BOLTS PRIOR TO PLACING CONCRETE AND/OR GROUT.
5. IF THREADED RODS ARE USED AS PERMITTED ABOVE, THEY SHALL BE CLEAR OF SOIL AND DIRT.
6. WHERE REQUIRED FOR CONSTRUCTION, HOLES LARGER THAN OVERSIZED MAY BE PERMITTED WITH THE USE OF STEEL PLATE WASHERS AT THE DISCRETION OF THE STRUCTURAL ENGINEER.

G. ADHESIVE/MECHANICAL ANCHORS

1. WITHOUT WRITTEN APPROVAL OF THE ENGINEER, CONTRACTOR SHALL NOT SUBSTITUTE POST-INSTALLED ANCHORS FOR WHERE CAST-IN-PLACED ANCHORS ARE SPECIFIED IN THE ELEVATION DRAWINGS.
2. WHERE STRUCTURAL DETAILS SPECIFY SPECIFIC BRANDS AND/OR TYPES OF ADHESIVES OR ANCHORS, SUBSTITUTIONS OF OTHER BRANDS AND/OR TYPES IS NOT ALLOWED, WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
3. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. SUBSTITUTION REQUESTS SHALL INCLUDE AN ICC ESR OR IAPMO REPORT AND SUPPORTING CALCULATIONS INDICATING COMPLIANCE WITH DESIGN INTENT.
4. ALL ADHESIVE/MECHANICAL ANCHORS SHALL BE INSTALLED, INCLUDING HOLE DRILLING AND PREPARATION, IN ACCORDANCE WITH AN APPROVED INDEPENDENT EVALUATION REPORT (ICC-ES, IAPMO, OR APPROVED EQUAL), AS INDICATED BELOW, AND IN ACCORDANCE WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII).
5. INSTALLERS SHALL BE, AT A MINIMUM, TRAINED FOR THE SPECIFIC APPLICATION INSTALLATION TECHNIQUE FOR THE SPECIFIC PRODUCT BY THE PRODUCT MANUFACTURERS FIELD EMPLOYEE OR SHALL POSSESS A TRAINING CARD OBTAINED BY THE MANUFACTURERS ONLINE TRAINING PROGRAM.
6. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION. ADHESIVE ANCHORS SHALL NOT BE FULLY LOADED UNTIL CONCRETE HAS REACHED DESIGN STRENGTH.
7. ADHESIVE ANCHORS SHALL CONSIST OF REINFORCING BAR OR THREADED RODS AS INDICATED IN THESE DOCUMENTS.
8. UNLESS APPROVED BY THE ENGINEER OF RECORD, CONCRETE AND DRILLED ANCHOR HOLES SHALL BE DRY AND FREE OF WATER FOR 14 DAYS PRIOR TO ADHESIVE INSTALLATION. CONTACT THE ENGINEER OF RECORD FOR GUIDANCE IF THE CONTRACTOR CHOOSES TO INSTALL IN DAMP, WATER-SATURATED, OR WATER-FILLED HOLES.
9. CONCRETE TEMPERATURE AT THE TIME OF INSTALLATION SHALL BE MONITORED BY THE CONTRACTOR. CONTRACTOR SHALL COMPLY WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) RELATIVE TO SUBSTRATE TEMPERATURE.
10. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT IN ACCORDANCE WITH ACI 318-19 26.7.2 (e) PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. CONTINUOUS SPECIAL INSPECTION SHALL BE PROVIDED FOR THESE ANCHORS.
11. UNLESS NOTED OTHERWISE, ALL ADHESIVE ANCHORS INTO CONCRETE SHALL BE:
    a. HILTI HIT-RE 500V3 (ESR-3814), OR HILTI HIT-HY 200-V3 (ESR-4868).
    b. SIMPSON SET-3G (ESR-4057), OR AT-3G (ESR-5026).
    c. DEWALT PURE 110+ (ESR-3298), OR AC200+ GOLD (ESR-4027-COLD WEATHER).
12. UNLESS NOTED OTHERWISE, ALL ADHESIVE ANCHORS INTO GROUTED MASONRY (CMU) SHALL BE:
    a. HILTI HIT-HY 270 (ESR-4143).
    b. SIMPSON SET-3G (ESR-4844), SIMPSON ET-3G (ESR-5309).
    c. DEWALT AC100+ GOLD (ESR-3200).
13. UNLESS NOTED OTHER WISE, ALL MECHANICAL ANCHORS INTO CONCRETE SHALL BE:
    a. HILTI KWIK BOLT-TZ2 (ESR-4266).
    b. SIMPSON STRONG-BOLT 2 (ESR-3037).
14. UNLESS NOTED OTHERWISE, ALL MECHANICAL ANCHORS INTO GROUTED MASONRY (CMU) SHALL BE:
    a. HILTI KWIK BOLT-TZ2 (ESR-4561).
    b. DEWALT SCREWBOLT+ (ESR-4042).
15. UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO CONCRETE SHALL BE:
    a. SIMPSON TITEN HD (ESR-2713).
    b. DEWALT SCREWBOLT+ (ESR-3889).
    c. HILTI KH-EZ (ESR-3027).
16. UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO GROUTED MASONRY (CMU) SHALL BE:
    a. SIMPSON TITEN HD (ESR-1056).
    b. DEWALT SCREWBOLT+ (ESR-4042).
    c. HILTI KH EZ (ESR-3056).
17. ALL MASONRY CELLS WITHIN 8" OF THE ANCHOR SHALL BE SOLID GROUTED.
18. THE TESTING LABORATORY WILL PERFORM VISUAL INSPECTION OF ANCHORS AND DOWELS AS SPECIFIED IN THE SPECIAL INSPECTION SCHEDULE AND THE APPROVED INDEPENDENT EVALUATION REPORT. TENSION TESTING CAN BE REQUIRED AT THE DIRECTION OF THE STRUCTURAL ENGINEER OF RECORD OR THE SPECIAL INSPECTOR.
19. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON THAT HOLE AND SHIFT THE ANCHOR LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM SPACE OF (2) ANCHOR HOLE DIAMETERS OR 2 INCHES, WHICH EVER IS LARGER, OF SOUND CONCRETE/MASONRY BETWEEN THE ANCHOR AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT OR AN APPROVED ANCHORING ADHESIVE. AT CONTRACTORS OPTION, LOCATE EXISTING REINFORCEMENT PRIOR TO DRILLING/CORING. IF THE ANCHOR OR DOWEL CANNOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.
20. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.

H. SUSPENDED CONCRETE SLABS / SLABS ON METAL DECK

1. UNLESS NOTED OTHERWISE, ALL CONCRETE SLABS ON METAL DECK SHALL BE 5" TOTAL THICKNESS NORMAL WEIGHT CONCRETE WITH A WEIGHT LESS THAN 145 POUNDS PER CUBIC FOOT, REINFORCED WITH #3 BARS AT 12"o.c. REINFORCING STEEL SHALL BE CHAIRED TO 1" TOP COVER AT ALL BEAM LOCATIONS. EXCEPT WHERE SPECIFICALLY DETAILED, FIBER MESH MAY BE USED IN PLACE OF REINFORCEMENT IN SLABS ON DECK WHEN USED IN ACCORDANCE WITH AN APPROVED ICC RESEARCH REPORT AND WHERE APPROVED BY THE ENGINEER. WHERE THE SLAB CONSTRUCTION IS USED TO OBTAIN A UL FIRE RATING, THE PROPOSED FIBER MESH SHALL HAVE UL ACCEPTANCE AS AN APPROVED ALTERNATIVE TO WELDED WIRE FABRIC.
2. AROUND OPENINGS IN SUSPENDED CONCRETE SLABS, ADD REINFORCING BARS EQUIVALENT TO BARS CUT BY OPENING WITH HALF ON EACH SIDE OF OPENING. BARS PARALLEL TO PRINCIPAL REINFORCING SHALL RUN FULL LENGTH OF SPAN. BARS PARALLEL TO TEMPERATURE REINFORCING SHALL RUN 24" BEYOND OPENING.
3. SLAB PENETRATIONS LESS THAN 6" IN ALL DIRECTIONS WITH A CLEAR SPACING OF AT LEAST 3 TIMES THE LONGEST DIMENSION, DO NOT REQUIRE SUPPLEMENTAL REINFORCING. OTHERWISE, THE PENETRATIONS SHALL BE FRAMED ON 4 SIDES WITH STEEL ANGLES OR BENT PLATES (SEE TYPICAL DETAIL) UNLESS NOTED OTHERWISE.
4. EVERY EFFORT SHALL BE MADE TO PROVIDE A LEVEL FINISHED FLOOR WHILE MAINTAINING THE MINIMUM INDICATED SLAB THICKNESS.
5. CONTROL JOINTS IN SUSPENDED CONCRETE SLABS AND CONCRETE SLABS ON DECK SHALL NOT BE USED UNLESS SPECIFICALLY APPROVED AND DETAILED BY THE ENGINEER.
6. SEE TYPICAL DETAILS WHEN SLABS ARE MADE COMPOSITE WITH STEEL BEAMS.
7. ANY CONDUIT PLACED IN SLABS ON DECK SHALL BE SPACED NOT CLOSER THAN 18"o.c. CONDUIT LARGER THAN 3/4" DIAMETER SHALL BE PLACED IN DECK FLUTES, BUT MAY NOT BE PLACED IN FLUTES WITH REINFORCING STEEL OR HSA'S. A 1" MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN THE CONDUIT AND THE DECK. NO CONDUIT LARGER THAN 1" DIAMETER OR 1/3 THE THICKNESS OF THE CONCRETE OVER THE DECK FLUTE SHALL BE PLACED IN SLABS ON DECK. CONDUIT CROSSOVERS ARE NOT ALLOWED.
8. WHERE CONDUIT IS CLUSTERED TOGETHER TO RISE ABOVE SLAB OR PENETRATE SLAB, PENETRATION IN SLAB MUST BE SUPPORTED AS NOTED IN NOTE H.3 ABOVE.
9. CONTRACTOR SHALL PROVIDE ALL TEMPORARY SHORING, BRACING, AND GUYING AS REQUIRED DURING ERECTION AND PLACEMENT OF SUSPENDED CONCRETE SLABS.
10. CONTRACTOR SHALL PLACE CONCRETE ON METAL DECK IN ACCORDANCE WITH THE CONSTRUCTION LIVE LOAD LIMITS NOTED IN THE METAL DECKING NOTES. IF MEANS AND METHODS ARE USED THAT EXCEED THESE LIMITS, THE CONTRACTOR IS RESPONSIBLE FOR INCREASING THE GAGE OF THE DECK OR PROVIDING NECESSARY SHORING AT NO ADDITIONAL COST TO THE OWNER AFTER THE CONTRACT HAS BEEN AWARDED. SHORING SHALL BE COORDINATED WITH ARW ENGINEERS.

I. REINFORCING STEEL

1. REINFORCING BAR STRENGTH REQUIREMENTS:
   a. ALL REINFORCING BARS SHALL CONFORM TO ASTM STANDARD A-615 GRADE 60 AND ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM STANDARD A-1064 AND SHALL BE SUPPLIED IN FLAT SHEETS. ADEQUATELY TIE AND SUPPORT ALL REINFORCING STEEL AS SPECIFIED BY ACI 117, TO MAINTAIN EXACT REQUIRED POSITION.
2. HEADED SHEAR STUD ASSEMBLIES SHALL CONFORM TO ASTM A1044.
3. STEEL DISCONTINUOUS FIBER REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO ASTM A820 AND SHALL HAVE A LENGTH TO DIAMETER RATIO NOT SMALLER THAN 50 AND NOT GREATER THAN 100.
4. HEADED DEFORMED BARS SHALL CONFORM TO ASTM A970. OBSTRUCTIONS OR INTERRUPTIONS OF THE BAR DEFORMATIONS, IF ANY, SHALL NOT EXTEND MORE THAN 2 BAR DIAMETERS FROM THE BEARING FACE OF THE HEAD.
5. ALL REINFORCING STEEL SHALL BE TIED IN PLACE AND ADEQUATELY SUPPORTED PRIOR TO PLACING CONCRETE. WET STABBING OF ANY REINFORCING STEEL IS NOT PERMITTED, UNLESS SPECIFICALLY DETAILED OTHERWISE OR APPROVED BY THE ENGINEER.
6. ALL FILLED IN DOWEL HOLES SHALL BE GRADE 40 WITH SPACING INDICATED REDUCED BY 1/3.
7. UNLESS NOTED OTHERWISE, REINFORCEMENT SHALL HAVE THE FOLLOWING CONCRETE COVERAGE :
   a. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ..... 3"
   b. EXPOSED TO EARTH OR WEATHER :
      1. #6 & LARGER ..... 2"
      2. #5 & SMALLER ..... 1-1/2"
   c. NOT EXPOSED TO WEATHER OR EARTH :
      1. SLABS, WALLS, JOISTS, #11 & SMALLER ..... 3/4"
      2. BEAMS, COLUMNS: MAIN REINFORCING OR TIES ..... 1-1/2"
   d. SLAB ON GRADE :
      1. PLACE REINFORCING AT CENTER OF SLAB UNLESS INDICATED OTHERWISE.
8. EXCEPT WHERE NOTED ON PLANS OR DETAILS CONTINUOUS REINFORCEMENT SHALL BE SPLICED AT POINTS OF MINIMUM STRESS BY LAPPING PER THE REBAR LAP SCHEDULE.
9. REINFORCING STEEL MAY BE SPLICED WITH MECHANICAL COUPLERS THAT HAVE A TENSION CAPACITY OF AT LEAST 125% OF THE STRENGTH OF THE BAR. MECHANICAL COUPLERS SHALL BE A POSITIVE CONNECTION TYPE COUPLER, AND SHALL BE INSTALLED IN ACCORDANCE WITH AN APPROVED ICC RESEARCH REPORT. WHERE THESE ARE USED, SPLICES ON AD

J. STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING:
   a. ANSI/AISC 360-22 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", WITH "COMMENTARY" AND "SUPPLEMENTS" AS REQUIRED BY BUILDING CODE.
   b. AISC 303-22 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" EXCLUDING THE FOLLOWING SECTIONS: 4.4, 4.4.1, AND 4.4.2.
   c. AISI "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".
   d. AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS".
   e. AWS D1.1 AND 1.3, "STRUCTURAL WELDING CODE" (EXCEPT SPECIFIC ITEMS DO NOT APPLY IF THEY CONFLICT WITH AISC).
   f. ANSI/AISC 341-22 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS".
   g. AWS D1.8, "STRUCTURAL WELDING CODE - SEISMIC".
2. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING:
   a. WIDE FLANGE SHAPES, CHANNELS, AND WT SHAPES - ASTM A992 (Fy = 50 ksi)
   b. PLATES AND ANGLES - ASTM 572/50 (Fy = 50 ksi) OR ASTM A529/50 (Fy = 50 ksi)
   c. HOLLOW STRUCTURAL SECTIONS (HSS) - ASTM A500, GRADE C (Fy = 50 ksi)
   d. STAINLESS STEEL SHAPES, PLATES, AND FASTENERS – ASTM 304
   e. DEFORMED BAR ANCHORS (DBA) - ASTM A-496, WELDED IN ACCORDANCE WITH AWS D1.1
   f. HEADED STUD ANCHORS (HSA) - ASTM A-108, GRADE 1015 STEEL AND WELDED IN ACCORDANCE WITH AWS D1.1 FOR TYPE "B". USE 3/4" DIAMETER STUDS, UNLESS NOTED OTHERWISE.
   g. THREADED ROD - ASTM A-449.
   h. NON-SHRINK GROUT - ASTM C1107. NON-SHRINK GROUT SHALL BE PRE-PACKAGED, NON-METALLIC, WITH A 28-DAY COMPRESSIVE STRENGTH OF 6,000 PSI.
3. CONNECTIONS SHALL COMPLY WITH THE STRUCTURAL DRAWINGS UNLESS WRITTEN APPROVAL TO CHANGE IS GIVEN BY THE STRUCTURAL ENGINEER.
4. ALL SHOP FABRICATIONS SHALL BE PERFORMED BY AN APPROVED FABRICATOR IN ACCORDANCE WITH SECTIONS 1702 AND 1704 OF THE IBC OR WITH SHOP INSPECTION BY AN INDEPENDENT AGENCY IN ACCORDANCE WITH SECTION 1704.2.5 OF THE IBC.
5. WELDING
   a. ALL WELDING AND CUTTING SHALL BE PERFORMED BY AWS QUALIFIED WELDERS IN ACCORDANCE WITH ANSI/AWS D1.1 (LATEST EDITION).
   b. USE E-70XX ELECTRODES UNLESS NOTED OTHERWISE. E-60XX MAY BE USED FOR WELDING STEEL DECKS.
   c. ALL INTERSECTING STEEL SHAPES WHICH ARE NOT CONNECTED WITH BOLTS SHALL BE WELDED TOGETHER WITH A FILLET WELD ALL AROUND UNLESS NOTED OTHERWISE. WHERE WELD SIZES ARE NOT SHOWN, USE THE FOLLOWING:
      1. WHERE THE THICKNESS OF THE CONNECTED PARTS IS EQUAL TO OR THICKER THAN 1/4", WELD SIZE SHALL BE 1/16" LESS THAN THE THICKNESS OF THE THINNEST PART.
      2. WHERE ANY OF THE CONNECTED PARTS IS LESS THAN 1/4" THICK, WELD SIZE SHALL BE THE SAME AS THE THICKNESS OF THE THINNEST PART.
   d. WELDING OF HSA'S (HEADED STUD ANCHORS) AND DBA'S (DEFORMED BAR ANCHORS) SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS AND AWS D1.1 REINFORCING BARS SHALL NOT BE SUBSTITUTED FOR HSA'S OR DBA'S.
   e. WHEREVER POSSIBLE, WELDS SHALL BE SHOP WELDS. SPECIAL CONSIDERATIONS, SUCH AS ITEMS WHICH MAY NEED ADJUSTMENT AT THE SITE, REQUIRE THAT SOME WELDS BE FIELD WELDS. WHERE QUESTIONS OR DISCREPANCIES OCCUR THE CONTRACTOR SHALL COORDINATE THE WORK BETWEEN THE SHOP FABRICATOR AND THE STEEL ERECTOR.
   f. SPECIAL PROVISIONS FOR SFRS (SEISMIC FORCE RESISTING SYSTEM):
      1. ALL WELDS DESIGNATED AS DEMAND CRITICAL WELDS SHALL BE MADE WITH FILLER METALS MEETING THE REQUIREMENTS SPECIFIED IN CLAUSES 6.1, 6.2, AND 6.3 OF AWS D1.8.
      2. ALL OTHER WELDS THAT ARE PART OF THE SFRS SHALL BE MADE WITH FILLER METALS MEETING THE REQUIREMENTS SPECIFIED IN CLAUSE 6.1 OF AWS D1.8.
      3. BUTT WELDS IN MEMBERS WITH DIFFERENT THICKNESSES, SUCH AS COLUMN SPLICES, SHALL BE TAPERED AND MADE IN SUCH A MANNER THAT THE TRANSITION DOES NOT EXCEED 1 IN 2-1/2 BEVELS. THE TRANSITION SHALL BE ACCOMPLISHED BY WELDING THE THICKER PART, TAPERING THE WIDER PART, SLOPING THE WELD METAL OR BY A COMBINATION OF THESE
6. BOLTING
   a. UNLESS NOTED OTHERWISE, ALL STRUCTURAL STEEL TO STEEL CONNECTIONS SHALL USE HIGH STRENGTH BOLTS CONFORMING TO ASTM F3125 GR. A325.
   b. UNLESS NOTED OTHERWISE, ALL BOLTING IS CLASSIFIED AS NON-SLIP CRITICAL BEARING TYPE CONNECTIONS WITH THREADS INCLUDED IN SHEAR PLANE. TIGHTEN BOLTS TO A SNUG TIGHT CONDITION, WITH ALL PLIES OF THE JOINT IN FIRM CONTACT.
   c. WHERE OVERSIZED OR SLOTTED HOLES OCCUR IN THE OUTER PLY, AN ASTM F436 WASHER OR 5/16" THICK COMMON PLATE WASHER SHALL BE USED AS REQUIRED TO COMPLETELY COVER THE HOLE.
   d. BOLTS SHALL BE CENTERED IN SLOTTED HOLES, UNLESS NOTED OTHERWISE.
   e. WHERE A STEEL BEAM TO BEAM CONNECTION IS NOT SHOWN, PROVIDE AN AISC STANDARD FRAMED CONNECTION SIZED FOR 1/2 OF THE TOTAL LOAD CAPACITY OF THE BEAM FOR THE SPAN AND STEEL SPECIFIED.
7. METAL DECKING
   a. UNLESS NOTED OTHERWISE, METAL ROOF DECK SHALL BE 22 GAUGE TYPE B GALVANIZED STEEL DECK. SEE ROOF DECK SCHEDULE FOR ATTACHMENTS.
   b. UNLESS NOTED OTHERWISE, METAL FLOOR DECK SHALL BE 20 GAUGE TYPE W2 COMPOSITE, GALVANIZED, UNVENTED STEEL DECK. UNLESS NOTED OTHERWISE, ATTACH TO SUPPORTING STRUCTURE WITH 3/4" DIAMETER WELDS AT 6" MAXIMUM SPACING. ATTACH SIDE SEAMS WITH BUTTON PUNCH OR SIDE SEAM SCREWS AT 12" MAXIMUM SPACING. AN HSA FIELD-WELDED THROUGH THE DECK MAY SUBSTITUTE FOR A PUDDLE WELD.
      1. UNLESS NOTED OTHERWISE, METAL FLOOR DECK IS BASED ON A "LIGHT DUTY" CONSTRUCTION LIVE LOAD OF 20 PSF (IN ADDITION TO THE UNIFORM WET CONCRETE SLAB THICKNESS). SEE STEEL DECK INSTITUTE DESIGN MANUAL FOR ADDITIONAL INFORMATION.
   c. ALL DECK SHALL BE CONTINUOUS OVER 3-SPANS. WHERE NOT POSSIBLE, THE DECK SUPPLIER/CONTRACTOR SHALL PROVIDE HEAVIER GAUGE DECK AS NEEDED TO PROVIDE THE EQUIVALENT PERFORMANCE OF THE SPECIFIED DECK WITH 3-SPAN CONTINUITY.
   d. SEE TYPICAL DETAILS FOR SUPPORT OF DECK AT OPENINGS.
   e. PROVIDE L2"x2"x3/16" FOR DECK SUPPORT AT LOCATIONS WHERE COLUMNS EXTEND THROUGH DECK.
   f. PAINTED STEEL DECK SHALL CONFORM TO EITHER ASTM A1008 OR A1039, GRADE 50 STEEL AND GALVANIZED STEEL DECK SHALL CONFORM TO EITHER ASTM A653 OR A1063, GRADE 50 STEEL, WITH A ZINC COATING DESIGNATION OF G60.
   g. BUILDING ELEMENTS MAY BE SUPPORTED BY HANGING DIRECTLY FROM METAL DECKING, PROVIDED THAT THE TOTAL WEIGHT PER CONNECTION IS LESS THAN 50 LBS AND THAT THE ATTACHMENT TO THE DECKING IS DISTRIBUTED ACROSS AT LEAST TWO RIBS AND SPACED AT LEAST 6 FEET APART IN ANY DIRECTION.
8. ALL COLUMNS EMBEDDED IN OR ADJACENT TO OR LOCATED AT THE END OF MASONRY WALLS SHALL HAVE (2) 1/2" DIAMETER X 24" LONG DBA EXTENDING EACH WAY AT ALL WALL BOND BEAMS.
9. PROVIDE FULL DEPTH WEB STIFFENER PLATES AT EACH SIDE OF STEEL BEAMS AT ALL BEARING (EXCEPT SECONDARY FRAMING) POINTS. STIFFENER PLATES SHALL BE THICKNESS SHOWN UNLESS NOTED OTHERWISE AND SHALL BE WELDED BOTH SIDES WITH FILLET WELDS ALL AROUND.

FLANGE WIDTH	STIFFENER THICKNESS	WELD THICKNESS
< 8 1/4"	1/4"	3/16"
8 1/4" < BF < 12 1/2"	3/8"	1/4"
12 1/2" < BF < 18"	1/2"	5/16"

10. FABRICATORS AND SUPPLIERS SHALL COORDINATE PAINT/FINISHES WITH REQUIREMENTS FOR DIRECT APPLIED INSULATION, FIREPROOFING, ETC, AS NOTED IN THE PROJECT SPECIFICATIONS.
11. WHEN DETERMINING THE FIRE RESISTANCE OF ASSEMBLIES, USE THE FOLLOWING: STEEL ROOF MEMBERS ARE CONSIDERED UN-RESTRAINED AND STEEL FLOOR FRAMING MEMBERS ARE CONSIDERED RESTRAINED.
12. UNLESS NOTED OTHERWISE, ALL HORIZONTAL FRAMING MEMBERS SHALL BE ERECTED WITH THE NATURAL CROWN UP.
13. UNLESS OTHERWISE SHOWN OR DETAILED IN THE PLANS, ALL STEEL COLUMNS, BEAMS, BRACES, STRUTS, ETC. SHALL BE CONTINUOUS BETWEEN CONNECTIONS OR SUPPORTS. SPLICES IN MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL BY THE ENGINEER OF RECORD.

K. COLD-FORMED STEEL

1. LIGHT GAUGE STEEL FRAMING
   a. STEEL FRAMING SIZE DESIGNATORS USED IN THE DRAWINGS FOLLOW THE CONVENTION ESTABLISHED BY THE STEEL STUD MANUFACTURERS' ASSOCIATION (SSMA) AND THE NORTH AMERICAN STEEL FRAMING ALLIANCE (NASFA). FRAMING MEMBERS PROVIDED SHALL MEET OR EXCEED ALL SSMA AND NASFA STANDARDS AND DESIGN PROPERTIES.
   b. ALL LOAD BEARING STUDS (AND/OR) JOIST FRAMING MEMBERS ALONG WITH ALL RUNNERS, BRIDGING, AND END-TRACKS SHALL BE OF THE DESIGNATION SHOWN ON THE PLANS. ALL OF THE ABOVE ELEMENTS SHALL BE FORMED FROM STEEL MEETING REQUIREMENTS OF ASTM A1011/A1011M-04. ALL COMPONENTS SHALL BE GALVANIZED. ALL COMPONENTS SHALL HAVE THE FOLLOWING YIELD STRESSES :

COMPONENT	BASE METAL THICKNESS	YIELD STRESS
STUDS, JOISTS & TRACKS	33 & 43 MIL	33,000 PSI
	54, 68 & 97 MIL	50,000 PSI
END CLOSURES & BRIDGING	33, 43, 54 & 68 MIL	33,000 PSI

   c. FOLLOW ALL MANUFACTURERS' RECOMMENDATIONS FOR THE USE OF THESE PRODUCTS.
   d. UNLESS NOTED OTHERWISE, ALL WELDED CONNECTIONS SHALL BE IN ACCORDANCE WITH AWS D1.3 AND THE STRUCTURAL DETAILS. ALL WELDS SHALL BE COMPLETED USING E60XX ELECTRODES.
2. SHEATHING SHALL BE APA RATED SHEATHING, EXPOSURE I, EXTERIOR GLUE AND PANEL INDEX RATING AS NOTED BELOW UNLESS NOTED OTHERWISE :

LOCATION	THICKNESS	PANEL INDEX
WALLS	15/32"	24/0
ROOFS :	23/32"	32/16

   a. INDIVIDUAL PIECES OF SHEATHING AT ROOF, FLOOR, AND SHEAR WALLS SHALL NOT BE SMALLER THAN 24" IN EITHER DIRECTION AND SHALL SPAN A MINIMUM OF TWO FRAMING SPACES. UNO.
   b. UNLESS NOTED OTHERWISE, ALL ROOF SHEATHING AND WALL SHEATHING AT SHEAR WALLS SHALL HAVE FLAT STUD BLOCKING AT ALL PANEL EDGES.
3. CONNECTIONS, FASTENERS
   a. UNLESS NOTED OTHERWISE, #8 TEK SCREWS SHALL BE USED TO FASTEN ALL PLYWOOD SHEATHING TO SUPPORTING JOISTS, LEDGERS OR BLOCKING AS FOLLOWS :
      1. BOUNDARY EDGES "BS": 4"o.c. AT ALL ROOF SHEATHING INTO BEARING AND/OR SHEAR WALLS, TOP & BOTTOM OF WALLS.
      2. EDGE SCREWS "ES": 6"o.c. AT ALL OTHER PLYWOOD PANEL EDGES.
      3. PANEL FIELD SCREWS "FS": 12"o.c. AT INTERIOR SUPPORTS IN FIELD OF PANEL. SCREWS SHALL BE GALVANIZED OR STAINLESS STEEL AT EXPOSED LOCATIONS.
         THE HEAD OF ALL SCREWS SHALL BE SCREWED FLUSH WITH THE SURFACE OF THE SHEATHING.
   b. ALL SCREWS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES :

SCREW SIZE	SHANK DIAMETER	HEAD DIAMETER
NO. 6	0.138"	0.272"
NO. 8	0.164"	0.272"
NO. 10	0.190"	0.340"
NO. 12	0.216"	0.340"

   c. UNLESS NOTED OTHERWISE, ALL FRAMING ANCHORS, CLIPS, HOLD DOWNS, STRAPS, ETC. TO BE PROVIDED BY THE STEEL NETWORK, SIMPSON OR APPROVED EQUAL.
   d. UNLESS NOTED OTHERWISE, ALL EXTERIOR WALL BOTTOM TRACKS TO BE ANCHORED TO THE CONCRETE FOUNDATION WALL WITH (1) 3/8" DIAMETER SIMPSON TITEN HD SCREW ANCHOR WITH 2-1/2" MINIMUM EMBEDMENT AT 16"o.c.
4. UNLESS NOTED OTHERWISE, ALL STEEL STUD WALLS SHALL BE CONTINUOUS BETWEEN TOP AND BOTTOM TRACKS WITH NO SPLICES.
5. UNLESS NOTED OTHERWISE, ALL STEEL STUD JOISTS AND BOX HEADER COMPONENTS SHALL BE CONTINUOUS WITH NO SPLICES BETWEEN BEARING SUPPORTS.
6. ALL TOP AND BOTTOM TRACKS OF STUD WALLS AND BOX HEADERS SHALL BE CONTINUOUS. WHERE LONG TRACKS ARE NOT AVAILABLE, TRACKS MAY BE WELDED TOGETHER PER NOTE 1D OF THESE NOTES, ON ALL SIDES OR TRACKS MAY BE SPLICED PER DETAIL 4/S2.6.
7. SEE TYPICAL DETAIL FOR REINFORCEMENT OF KNOCK OUT HOLES AT BEARING AND POINT LOAD LOCATIONS ON STEEL JOISTS AND BOX HEADERS.
8. AT ALL OVERBUILD LOCATIONS, ROOF SHEATHING SHALL BE COMPLETE BELOW OVERBUILDS PRIOR TO OVERBUILD CONSTRUCTION.
9. UNLESS NOTED OTHERWISE, ALL WALLS SHALL BE 600S162-54 STUDS SPACED AT 16"o.c. W/ BRACING AT 4'-0"o.c. PER DETAIL 1/S2.8 UNO AND W/ 600T125-54 TRACKS. ATTACH TRACK TO STUDS W/ (1) #8 TEK SCREWS EACH SIDE OF STUD.
10. ALL INTERIOR, NON-BEARING, STEEL STUD WALLS THAT EXTEND ABOVE THE CEILING BUT DO NOT ATTACH TO THE FLOOR OR ROOF DIAPHRAGM (ABOVE), SHALL HAVE DIAGONAL BRACES AT 45 DEGREES (+/-). SEE TYPICAL DETAILS.

L. OPEN WEB JOISTS AND GIRDERS

1. ALL OPEN WEB STEEL JOISTS AND GIRDERS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD SPECIFICATIONS AND CODE OF STANDARD PRACTICE" OF THE STEEL JOIST INSTITUTE.
2. (####/####) DENOTES APPLIED TOTAL AND LIVE UNIFORMLY DISTRIBUTED LOADS IN POUNDS PER LINEAR FOOT OF JOIST, RESPECTIVELY.
3. SEE JOIST LOAD PROFILES FOR SPECIALLY LOADED JOISTS.
4. CONCENTRATED POINT LOADS, NOT SPECIFICALLY SHOWN ON THE PLANS, OF LESS THAN 100 POUNDS FOR MECHANICAL UNITS, FIRE SPRINKLER MAINS, AND OTHER EQUIPMENT SHALL BE ALLOWED WITHOUT REQUIRING ADDITIONAL WEB MEMBERS TO BE INSTALLED. WHERE THE LOAD EXCEEDS 100 POUNDS, THE LOAD SHALL BE SUPPORTED WITHIN 6" OF A CHORD PANEL POINT. SUPPORT BEYOND 6" FROM PANEL POINTS CAN BE PROVIDED BY ADDING (2) L2 x 2 x 1/4 DIAGONALS TO THE NEAREST OPPOSITE CHORD PANEL POINT PER THE TYPICAL DETAIL. CONNECTIONS SHALL BE MADE CONCENTRIC TO THE CHORD ANGLES. BEAM CLAMPS, OR SIMILAR ECCENTRIC ATTACHMENTS, ARE NOT ALLOWED, EXCEPT AS INDICATED BELOW. LOADS SHALL BE SPACED AT LEAST 6 FEET APART WITH NO MORE THAN 4 PER JOIST. BEAM CLAMPS, OR SIMILAR ATTACHMENTS THAT ARE NOT CENTERED ON THE CHORD ANGLES MAY ONLY BE USED FOR LOADS LESS THAN 100 POUNDS. SEE JOIST SUBMITTAL FOR ADDITIONAL REQUIREMENTS. ALL LOADS PROVIDED FOR IN THIS NOTE SHALL BE ACCOUNTED FOR IN THE SPECIFIED DESIGN LOADS.
5. ANY BRACING REQUIRED FOR MISCELLANEOUS ITEMS (I.E. DUCTWORK, PIPING, ETC.) MUST CONNECT TO THE TOP CHORD OF THE JOIST OR GIRDER. BRACING TO THE BOTTOM CHORD IS NOT ALLOWED UNLESS SPECIFICALLY DETAILED THAT WAY ON THE PLANS.
6. PROVIDE SPECIAL BEARING ENDS AS REQUIRED AT SLOPED BEARING CONDITIONS. CONTRACTOR SHALL COORDINATE WITH OTHER STRUCTURAL ELEMENTS.
7. ALL JOISTS SHALL BE CAMBERED PER SJI SPECIFICATIONS, UNLESS NOTED OTHERWISE.
8. FIELD MODIFICATIONS (INCLUDING HOLES IN THE CHORD OR WEB MEMBERS) SHALL NOT BE MADE TO ANY JOIST OR GIRDER WITHOUT PRIOR APPROVAL BY THE MANUFACTURER.
9. FABRICATORS AND SUPPLIERS SHALL COORDINATE PAINT/FINISHES WITH REQUIREMENTS FOR DIRECT APPLIED INSULATION, FIREPROOFING, ETC, AS NOTED IN THE PROJECT SPECIFICATIONS.
10. JOIST BRIDGING SHALL BE PROVIDED AS REQUIRED BY THE JOIST MANUFACTURER AND SJI STANDARDS. BRIDGING WHERE SHOWN ON THE STRUCTURAL DRAWINGS IS A SCHEMATIC REPRESENTATION ONLY. SEE JOIST MANUFACTURER FOR BRIDGING SIZE, CONNECTIONS, TYPE AND QUANTITY.
11. WHERE ADDED LOADS ARE SHOWN ON THE JOISTS BUT NOT SPECIFICALLY DIMENSIONED, THE JOIST DESIGNER SHALL PLACE THOSE LOADS ON THE JOIST AT A LOCATION THAT RESULTS IN THE HIGHEST STRESS IN THE MEMBERS. THE DESIGNER MAY ASSUME THAT THE LOAD OCCURS WITHIN 10 FEET OF A SCALED DIMENSION.
12. FABRICATOR MUST SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL PER IBC 2207.5 STATING THAT WORK WAS PERFORMED IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND WITH SJI SPECIFICATIONS.
13. UNLESS NOTED OTHERWISE, ROOF JOISTS AND GIRDERS SHALL BE DESIGNED FOR A NET WIND UPLIFT AS INDICATED IN THE WIND UPLIFT SCHEDULE ON SHEET S0.7.
14. ALL ROOF JOISTS BEARING ON EXTERIOR WALLS SHALL BE DESIGNED TO TRANSFER 10.8 KIPS (ULTIMATE) TOP CHORD AXIAL FORCE THROUGH THE BEARING SHOE.
15. ALL JOISTS AT GRID LINES SHALL BE DESIGNED TO RESIST A 50 KIP TOP CHORD AXIAL FORCE (ULTIMATE).
16. ALL STANDARD AND NON STANDARD SJI JOISTS SHALL BE DESIGNED FOR THE FOLLOWING DEFLECTION CRITERIA :
    a. LIVE LOAD : L/360 TOTAL LOAD : L/240
17. JOIST MANUFACTURER SHALL APPLY ADDITIONAL POINT OR LINE LOAD AS REQUIRED TO SUPPORT FIRE PROTECTION MAINLINES 4" DIAMETER OR GREATER. JOIST MANUFACTURER SHALL COORDINATE WITH GENERAL CONTRACTOR TO OBTAIN LOCATIONS AND WEIGHTS OF THESE LINES. SEISMIC BRACING LOADS FOR FIRE PROTECTION MAINLINES SHALL ALSO BE ACCOUNTED FOR IN THE JOIST MANUFACTURER'S DESIGN.

M. MASONRY

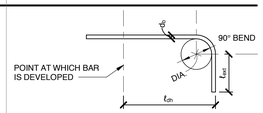
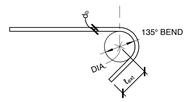
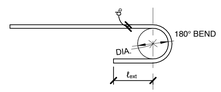
1. ALL HOLLOW MASONRY UNITS SHALL CONFORM TO ASTM C-90.
   f'm (MINIMUM, FACTORED) 2,000 PSI
   MINIMUM UNIT STRENGTH 2,000 PSI (TESTED IN ACCORDANCE WITH ASTM C-140)
   ACCEPTABLE RANGE OF UNIT WEIGHT : 105 PCF TO 125 PCF
2. ALL GROUT (SITE MIXED OR PRE-MIXED) SHALL CONFORM TO ASTM C-476 OR SECTION 2.2A OF TMS 602-22. GROUT SHALL BE PLACED WITH SUFFICIENT WATER FOR POURING WITHOUT SEGREGATION. DO NOT USE MORTAR FOR GROUT. MECHANICALLY VIBRATE ALL GROUT.
3. GROUT STOPS SHALL BE AN APPROVED PRODUCT DESIGNED AND MANUFACTURED FOR USE AS A GROUT STOP. GROUT STOP SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW. OTHER GROUT STOP MATERIALS SUCH AS ASPHALT IMPREGNATED MATERIALS ARE NOT PERMITTED.
4. MORTAR SHALL BE TYPE S AND SHALL CONFORM TO ASTM C 270.
5. ALL MASONRY WORK SHALL CONFORM TO CHAPTER 21 OF THE IBC.
6. UNLESS NOTED OTHERWISE, MINIMUM REINFORCING IN ALL 10" MASONRY WALLS SHALL BE AS FOLLOWS :
   a. VERTICAL : #5 BARS IN GROUTED CELLS ADJACENT TO ALL OPENINGS GREATER THAN 24 INCHES WIDE, ON EACH SIDE OF CONTROL JOINTS, AT ENDS OF WALL, AND AT A MAXIMUM SPACING OF 32" THROUGHOUT THE WALL. AT CORNERS, PROVIDE A MINIMUM OF (4) VERTICAL BARS AT "T" JOINTS AND (3) VERTICAL BARS AT "L" JOINTS. SEE THE TYPICAL DETAIL / SCHEDULE FOR MORE INFORMATION. ALL VERTICAL REINFORCEMENT SHALL BE DOWELED INTO THE FOUNDATION WALL UNLESS SPECIFICALLY DETAILED OTHERWISE.
   b. HORIZONTAL : (2) #4 BARS IN 8" DEEP "H" BLOCK BOND BEAM UNITS AT 40"o.c. AND AT FLOORS, ROOF, BELOW OPENINGS, AND TOP OF WALL. BOND BEAMS AT ROOF SHALL SLOPE TO MATCH SLOPING ROOF. SEE THE MASONRY REINFORCING SCHEDULE FOR MASONRY BEAMS ABOVE OPENINGS.
7. SEE THE MASONRY REINFORCING SCHEDULE FOR OPENINGS WHICH EXCEED 32 INCHES IN EITHER DIRECTION.
8. ALL BLOCK CELLS CONTAINING REINFORCING, BOLTS, OR ANCHORS SHALL BE GROUTED SOLID.
9. PROVIDE (1) #5 (MINIMUM), IN GROUTED SPACE, ON ALL SIDES AND ADJACENT TO EVERY OPENING WHICH EXCEEDS 24" IN EITHER DIRECTION. HORIZONTAL BARS SHALL EXTEND 24" BEYOND THE CORNERS OF THE OPENING AND VERTICAL BARS SHALL EXTEND TO TOP OF WALL. VERTICAL REINFORCING SHALL BE PROVIDED AT ENDS, CORNERS AND EACH SIDE OF CONTROL JOINTS. SEE TYPICAL DETAILS FOR OPENINGS WHICH EXCEED 32" IN EITHER DIRECTION.
10. SOLID GROUTING OF MASONRY IS UNACCEPTABLE EXCEPT AS SPECIFICALLY NOTED ON PLANS AND SCHEDULES.
11. WHERE WALLS ARE NOT GROUTED SOLID, EACH GROUT POUR SHALL TERMINATE FLUSH WITH THE TOP OF THE UPPERMOST UNIT EXCEPT AT CELLS WITH VERTICAL REINFORCING WHERE GROUT SHALL BE 1-1/2" BELOW TOP OF UNIT TO PROVIDE CONSTRUCTION KEY. WHERE WALLS ARE GROUTED SOLID, EACH GROUT POUR SHALL TERMINATE 1-1/2" BELOW TOP OF UNIT.
12. GROUT POURS SHALL NOT EXCEED 5'-0" UNLESS HIGH LIFT GROUTING PROCEDURES ARE FOLLOWED.
13. THE USE OF HIGH LIFT GROUTING PROCEDURES REQUIRE THE APPROVAL OF THE ARCHITECT AND ENGINEER AND SHALL NOT EXCEED THE MAXIMUM HEIGHTS GIVEN IN TABLE 7 OF TMS OF TMS 602-22. GROUT DEMONSTRATION PANELS, AS PRESCRIBED BY THE ARCHITECT AND ENGINEER, SHALL BE REQUIRED WHERE REQUESTED GROUTING PROCEDURES DO NOT MEET THE LIMITS OF TABLE 7. ADDITIONALLY, ALL HIGH LIFT GROUTING SHALL REQUIRE SPECIAL INSPECTION PROCEDURES NEEDED TO VERIFY GROUT PLACEMENT DURING CONSTRUCTION. DURING THE SUBMITTAL FOR APPROVAL PROCESS, SUBMITTAL SHALL INCLUDE, BUT NOT BE LIMITED TO: STATEMENT OF PROCEDURE FOR MECHANICAL VIBRATION OF HIGH LIFT GROUT; NEW MIX DESIGNS FOR HIGH SLUMP, HIGH LIFT GROUT; FOR SELF-CONSOLIDATING GROUT, SUBMIT MIX DESIGNS, SLUMP FLOW RATES, VISUAL STABILITY INDEX (VSI), AND QUANTITIES OF ADMIXTURES BEING USED.
14. ALL MASONRY BEAMS SHALL BE BUILT INTEGRAL WITH SUPPORT. NO TOOTHING OR DOWELING PERMITTED. UNITS WITH ONE END OPEN SHALL BE USED FOR ALL MASONRY BEAMS.
15. PROVIDE VERTICAL CONTROL JOINTS AT MAXIMUM SPACINGS NOTED BELOW UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS AND/OR ON ARCHITECTURAL ELEVATIONS AND AT ALL CHANGES IN WALL ELEVATION AND MASONRY THICKNESS. CONTROL JOINTS SHALL NOT BE LOCATED DIRECTLY OVER OR CLOSER THAN 24" TO WALL OPENINGS (DOORS, WINDOWS, MECHANICAL OPENINGS, ETC.), OR WITHIN MASONRY JAMBS.
    REINFORCED MASONRY : 40 FT
    VENEER : 30 FT AND AT INTERFACE BETWEEN VENEER SUPPORTED BY FOUNDATIONS AND SUSPENDED STRUCTURAL ELEMENTS.
16. HORIZONTAL REINFORCEMENT SHALL TERMINATE AT EACH SIDE OF CONTROL JOINTS EXCEPT AT FLOOR AND ROOF LEVEL BOND BEAMS AND AT TOP OF PARAPET.
17. CONTROL JOINTS SHALL BE PROVIDED AT THE MASONRY SIDE OF EMBEDDED STEEL COLUMNS TO CONTROL CRACKING OF FACE SHELLS.
18. SUPPORT NON-BEARING, NON-STRUCTURAL WALLS AT TOP OF MASONRY AS PER TYPICAL DETAILS AT LOCATIONS WHERE INTERSECTING OR PERPENDICULAR WALLS ARE 12'-0" OR MORE APART OR WHERE END OF WALL OCCURS 6'-0" OR MORE FROM INTERSECTING WALL.
19. EMBED CHANNELS AND PLATES TO BE PLACED SO AS TO CREATE FLUSH SURFACE WITH FACE OF MASONRY; FLANGES ON CHANNEL EMBEDS SHALL BE HORIZONTAL.
20. ALL VERTICAL REINFORCING SHALL BE SECURED IN PLACE PRIOR TO GROUTING USING WIRE POSITIONERS OR OTHER ACCEPTABLE DEVICES. REINFORCING SHALL BE SECURED AT BAR-SPLICE LOCATIONS AND AT A SPACING NOT MORE THAN 120 BAR DIAMETERS.
21. UNLESS NOTED OTHERWISE, MASONRY WALLS SHALL BE CONSTRUCTED UTILIZING COMMON RUNNING-BOND WITH FULLY MORTARED BED JOINTS AROUND GROUTED CELLS.
22. MASONRY VENEER SHALL BE ANCHORED PER THE MORE STRINGENT OF TMS 402-22 TABLE 13.2.2.3 OR THE HOHMANN AND BARNARD VENEER ANCHOR ASSEMBLY SYSTEM, OR AN APPROVED EQUAL. REGARDLESS OF BACK-UP SYSTEM, PROVIDE A CONTINUOUS HORIZONTAL 9 GAUGE WIRE AT 16"o.c. IN VENEER MORTAR JOINTS FOR ANCHOR ATTACHMENT. POSITIVE ANCHORAGE TO THE WIRE USING THE SEISMICLIP INTERLOCK SYSTEM SHALL BE PROVIDED TO SUPPORT NOT MORE THAN 2 SQUARE FEET OF WALL, WITH A HORIZONTAL SPACING NOT EXCEEDING 18".
    a. WOOD AND METAL STUDS: USE HOHMANN AND BARNARD HB-213 S.I.S. (SEISMICLIP INTERLOCK SYSTEM) HEAVY DUTY ANCHORS OR AN APPROVED EQUAL. THE HB-213 ASSEMBLY SHALL BE ATTACHED TO WOOD STUDS USING A # 12 X 2" WOOD SCREWS OR TO METAL STUDS USING #10 SCREWS.
    b. BRICK AND BLOCK WALLS; USE HOHMANN AND BARNARD 270-ML-S.I.S. (SEISMICLIP INTERLOCK SYSTEM) MIGHTY-LOK SEISMIC ANCHORS OR AN APPROVED EQUAL, AT SPACINGS NOTED ABOVE. INSTALL A 2 WIRE 9 GAUGE LADDER TYPE JOINT REINFORCEMENT AT 16"o.c. IN THE BACK-UP WALL FOR ANCHORAGE ATTACHMENT.
    c. CONCRETE WALLS; USE HOHMANN AND BARNARD HB 303SV SEISMIC NOTCH DOVE TAIL ANCHOR SYSTEM OR AN APPROVED EQUAL AT SPACINGS NOTED ABOVE.
23. ELECTRICAL CONDUIT SHALL NOT BE PLACED IN CELLS THAT CONTAIN REBAR. CONDUIT IS ALLOWED TO PASS THROUGH REINFORCED CELLS WHEN IT OCCURS PERPENDICULAR TO THE REBAR. CONDUIT SHALL NOT CONTACT REBAR AS IT PASSES. THERE SHALL BE 1" CLEAR BETWEEN CONDUIT AND REBAR.
24. ALL MASONRY BELOW GRADE SHALL HAVE ONE END WEB REMOVED FROM EACH UNIT AND THE MASONRY SHALL BE GROUTED SOLID UP TO FINISHED GRADE OR FINISHED FLOOR, WHICHEVER IS HIGHER. SEE TYPICAL DETAIL FOR MORE INFORMATION.

N. STRUCTURAL DELEGATED DESIGNS AND DEFERRED SUBMITTALS

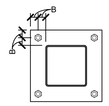
1. STRUCTURAL DELEGATED DESIGNS AND SUBSEQUENT DEFERRED SUBMITTALS ARE FOR ELEMENTS, PARTS, OR PORTIONS OF THE OVERALL STRUCTURAL SYSTEM THAT ARE INDICATED OR REFERRED TO ON THESE DRAWINGS AND THAT ARE CRITICAL TO THE PERFORMANCE OF THE OVERALL STRUCTURAL SYSTEM. DESIGN CRITERIA HAS BEEN PROVIDED FOR THESE ITEMS IN THE STRUCTURAL NOTES, PLANS, AND DETAILS.
2. STRUCTURAL DEFERRED SUBMITTALS ARE COMPLETE PACKAGES TO BE SUBMITTED FOR REVIEW THAT INCLUDE DRAWINGS AND CALCULATIONS FOR ALL DELEGATED DESIGN ITEMS AND THEIR CONNECTIONS. DEFERRED SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THEIR DESIGN.
3. ARW ENGINEERS WILL REVIEW STRUCTURAL DEFERRED SUBMITTALS TO VERIFY DESIGN CRITERIA IS COMPLIANT WITH THE APPROVED CONSTRUCTION DOCUMENTS.
4. STRUCTURAL DELEGATED DESIGN COMPONENTS SHALL NOT BE INSTALLED UNTIL APPROVED BY THE BUILDING OFFICIAL.
5. STRUCTURAL DELEGATED DESIGN ITEMS REQUIRING DEFERRED SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO :
   a. OPEN WEB JOISTS & GIRDERS, BRIDGING, BRACING, CONNECTIONS, AND RELATED COMPONENTS.

O. NON-STRUCTURAL DELEGATED D

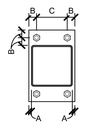
STANDARD HOOK & BEND SCHEDULE

TYPE OF STANDARD HOOK	BAR SIZE	MIN. INSIDE BEND DIA. FOR STIRRUPS, TIES, AND HOOPS, in	STRAIGHT EXTENSION ℓ_{ext} FOR STIRRUPS, TIES, AND HOOPS in.	MIN. INSIDE BEND DIA. FOR OTHER BARS, in	STRAIGHT EXTENSION ℓ_{ext} FOR OTHER BARS in.	TYPE OF STANDARD HOOK
90° HOOK	#3 - #5	$4d_b$	GREATER OF $6d_b$ AND 3"	$6d_b$	$12d_b$	
	#6 - #8	$6d_b$	$12d_b$			
	#9 - #11	N/A	N/A	$8d_b$		
	#14 - #18	N/A	N/A	$10d_b$		
135° HOOK	#3 - #5	$4d_b$	GREATER OF $6d_b$ AND 3"	N/A	N/A	
	#6 - #8	$6d_b$	GREATER OF $6d_b$ AND 3"	N/A	N/A	
180° HOOK	#3 - #5	$4d_b$	GREATER OF $4d_b$ AND 2.5"	$6d_b$	GREATER OF $4d_b$ AND 2.5"	
	#6 - #8	$6d_b$				
	#9 - #11	N/A	N/A	$8d_b$		
	#14 - #18	N/A	N/A	$10d_b$		

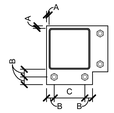
STEEL BASE PLATE SCHEDULE



TYPE SBP-1



TYPE SBP-2



TYPE SBP-3

A = 1/2" MIN.

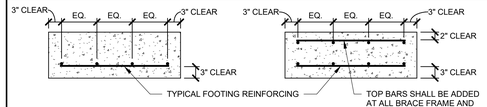
B = 1 1/2"

C = 3" MIN.

SQUARE BASE PLATE SCHEDULE (TYPE SBP-1)		RECTANGULAR BASE PLATE SCHEDULE (TYPE SBP-2)	
COLUMN SIZE	BASE PLATE SIZE	COLUMN SIZE	BASE PLATE SIZE
12" SQUARE	PLATE 1 1/4" x 18" x 1'-6"	12" SQUARE	PLATE 1 1/4" x 13" x 1'-6"
10" SQUARE	PLATE 1 1/8" x 16" x 1'-4"	10" SQUARE	PLATE 1 1/4" x 11" x 1'-4"
8" SQUARE, 10" DIA.	PLATE 3/4" x 14" x 1'-2"	8" DIA. SQUARE	PLATE 1" x 9" x 1'-2"
6" SQUARE, 8" DIA.	PLATE 3/4" x 12" x 1'-0"	6" SQUARE	PLATE 3/4" x 7" x 1'-0"
5" SQUARE	PLATE 3/4" x 12" x 1'-0"	5" SQUARE	PLATE 3/4" x 6" x 1'-0"
4" SQUARE	PLATE 5/8" x 10" x 0'-10"	4" SQUARE	PLATE 5/8" x 6" x 0'-10"

NOTES:
1. FOR NON-BRACED FRAME & NON-MOMENT FRAME COLUMNS, SEE AISC TABLE 14-1 FOR RECOMMENDED SIZE FOR WASHERS AND ANCHOR ROD HOLES IN BASE PLATES.
2. SEE TYPICAL COLUMN TO FOOTING DETAILS & STRUCTURAL NOTES FOR MORE INFORMATION.
3. UNLESS NOTED OTHERWISE, USE SBP-1.
4. WHERE TYPE SBP-3 IS CALLED OUT FOR USE, MATCH THICKNESS OF SBP-1 FOR CORRESPONDING COLUMN SIZE.

FOOTING SCHEDULE



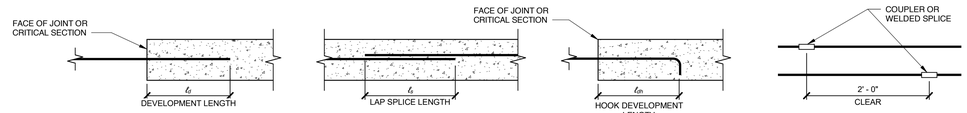
TYP. FOOTING SECTION

TYP. FOOTING SECTION W/ TOP & BOTTOM REINF.

MARK	WIDTH	LENGTH	THICK	LENGTHWISE REINF.	CROSSWISE REINF.	REMARKS
FC2	2' - 0"	CONT.	1' - 0"	(2) #5		
FC2.5	2' - 6"	CONT.	1' - 0"	(3) #5	#5 AT 12"o.c.	
FC3	3' - 0"	CONT.	1' - 0"	(3) #5	#5 AT 12"o.c.	
FC3.5	3' - 6"	CONT.	1' - 0"	(4) #5	#5 AT 12"o.c.	
FC3.5A	3' - 6"	CONT.	1' - 0"	(3) #5	#5 AT 12"o.c.	REINFORCE TOP AND BOTTOM
FC4	4' - 0"	CONT.	1' - 0"	(4) #5	#5 AT 12"o.c.	REINFORCE TOP AND BOTTOM
FC4.5	4' - 6"	CONT.	1' - 6"	(5) #5	#5 AT 12"o.c.	REINFORCE TOP AND BOTTOM
F3	3' - 0"	3' - 0"	1' - 0"	(3) #5	(3) #5	
F3.5	3' - 6"	3' - 6"	1' - 0"	(4) #5	(4) #5	
F4	4' - 0"	4' - 0"	1' - 0"	(4) #5	(4) #5	
F4.5	4' - 6"	4' - 6"	1' - 0"	(5) #5	(5) #5	
F5	5' - 0"	5' - 0"	1' - 2"	(5) #5	(5) #5	
F5.5	5' - 6"	5' - 6"	1' - 2"	(6) #5	(6) #5	
F6	6' - 0"	6' - 0"	1' - 4"	(6) #6	(6) #6	
F6.5	6' - 6"	6' - 6"	1' - 4"	(7) #6	(7) #6	
F7	7' - 0"	7' - 0"	1' - 6"	(7) #6	(7) #6	
F7.5	7' - 6"	7' - 6"	1' - 6"	(8) #7	(8) #7	
F7.5A	7' - 6"	7' - 6"	1' - 6"	(8) #7	(8) #7	REINFORCE TOP AND BOTTOM
F9	9' - 0"	9' - 0"	1' - 10"	(9) #7	(9) #7	REINFORCE TOP AND BOTTOM
FS85	8' - 0"	5' - 6"	1' - 4"	(8) #6	(6) #6	REINFORCE TOP AND BOTTOM

2024 IBC CONCRETE REBAR LAP SPLICE SCHEDULE (60KSI REBAR)

FOR CONCRETE APPLICATIONS (ACI 318 - 19)



BAR LOCATION	CONCRETE TYPE	CONCRETE STRENGTH	CONCRETE REINFORCING & SPLICE LENGTHS (IN) BAR SIZE #3 ℓ_d	#3 ℓ_s	#3 ℓ_{dh}	#4 ℓ_d	#4 ℓ_s	#4 ℓ_{dh}	#5 ℓ_d	#5 ℓ_s	#5 ℓ_{dh}	#6 ℓ_d	#6 ℓ_s	#6 ℓ_{dh}	#7 ℓ_d	#7 ℓ_s	#7 ℓ_{dh}	#8 ℓ_d	#8 ℓ_s	#8 ℓ_{dh}	#9 ℓ_d	#9 ℓ_s	#9 ℓ_{dh}	#10 ℓ_d	#10 ℓ_s	#10 ℓ_{dh}	#11 ℓ_d	#11 ℓ_s	#11 ℓ_{dh}
VERT. WALL BARS, FILL ON METAL DECK	NWC	3000 PSI	17	22	8	22	29	6	28	36	8	33	43	11	48	62	14	55	72	16	62	81	20	70	91	23	78	101	27
HORIZ. WALL BARS, FOOTING TOP BARS	NWC	3000 PSI	22	29	6	29	38	6	36	47	8	43	56	11	63	82	14	72	94	16	81	105	20	91	118	23	101	131	27
BEAM BOTTOM BARS, COLUMN BARS	NWC	3000 PSI	17	22	6	22	29	10	28	36	13	33	43	17	48	62	21	55	72	26	62	81	31	70	91	37	78	101	43
FOOTING BOTTOM BARS, SLAB ON GRADE	NWC	3000 PSI	12	16	6	14	18	6	17	22	8	20	26	11	29	38	14	33	43	16	38	49	20	42	55	23	46	61	27
SLAB TOP BARS[5] BEAM TOP BARS	NWC	3000 PSI	22	29	6	29	38	10	36	47	13	43	56	17	63	82	21	72	94	26	81	105	31	91	118	37	101	131	43

BAR LOCATION	CONCRETE TYPE	CONCRETE STRENGTH	CONCRETE REINFORCING & SPLICE LENGTHS (IN) BAR SIZE #3 ℓ_d	#3 ℓ_s	#3 ℓ_{dh}	#4 ℓ_d	#4 ℓ_s	#4 ℓ_{dh}	#5 ℓ_d	#5 ℓ_s	#5 ℓ_{dh}	#6 ℓ_d	#6 ℓ_s	#6 ℓ_{dh}	#7 ℓ_d	#7 ℓ_s	#7 ℓ_{dh}	#8 ℓ_d	#8 ℓ_s	#8 ℓ_{dh}	#9 ℓ_d	#9 ℓ_s	#9 ℓ_{dh}	#10 ℓ_d	#10 ℓ_s	#10 ℓ_{dh}	#11 ℓ_d	#11 ℓ_s	#11 ℓ_{dh}
VERT. WALL BARS, FILL ON METAL DECK	NWC	4500 PSI	14	18	6	18	23	6	23	30	8	27	35	10	40	52	12	45	59	15	51	66	18	57	74	21	64	83	25
HORIZ. WALL BARS, FOOTING TOP BARS	NWC	4500 PSI	18	23	6	24	31	6	30	39	8	35	46	10	51	66	12	59	77	15	66	86	18	74	96	21	82	107	25
BEAM BOTTOM BARS, COLUMN BARS	NWC	4500 PSI	14	18	6	18	23	9	23	30	12	27	35	16	40	52	20	45	59	24	51	66	29	57	74	34	64	83	40
FOOTING BOTTOM BARS, SLAB ON GRADE	NWC	4500 PSI	12	16	6	12	16	6	13	17	8	16	21	10	23	30	12	26	34	15	29	38	18	33	43	21	36	47	25
SLAB TOP BARS[5] BEAM TOP BARS	NWC	4500 PSI	18	23	6	24	31	9	30	39	12	35	46	16	51	66	20	59	77	24	66	86	29	74	96	34	82	107	40

NOTES:
1. MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICES SHOWN. SEE STRUCTURAL NOTES FOR MINIMUM COUPLER CAPACITY. WHERE MECHANICAL COUPLERS ARE USED, STAGGER ADJACENT SPLICES A MINIMUM OF 24" AS INDICATED ABOVE.
2. LENGTHS INDICATED IN THIS SCHEDULE SHALL BE INCREASED BY 50% FOR STRAIGHT BAR DEVELOPMENT AND 20% FOR HOOKED BARS WHERE EPOXY COATING IS USED.
3. WHEN SPLICING BARS OF DIFFERENT SIZES, USE LAP SPLICE LENGTH OF LARGER BARS UNO.
4. SPLICE BARS LARGER THAN #11 USING MECHANICAL COUPLERS.
5. SLAB TOP BARS ONLY FOR SLABS 12" OR GREATER IN THICKNESS.

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HARMONS SPANISH FORK

2643 EAST 400 NORTH
SPANISH FORK, UTAH

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 14, 2026
ARW PROJECT NO: 26210
DESIGN SEQUENCE PROJECT NO: 1431.01
CAD DWG FILE NO:
DRAWN BY: Z. THORNER
DESIGNED BY: A. BOWN
DWG TYPE:
PROJECT PHASE: BID SET

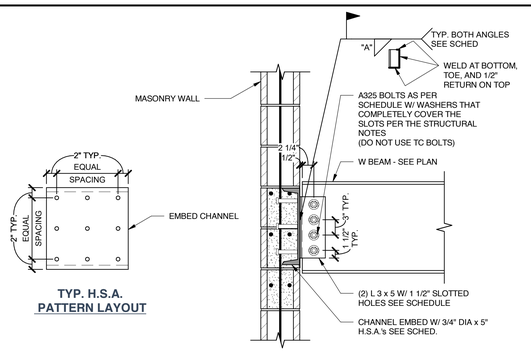
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SCHEDULES

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BEAM CONNECTION SCHEDULE AT MASONRY WALL

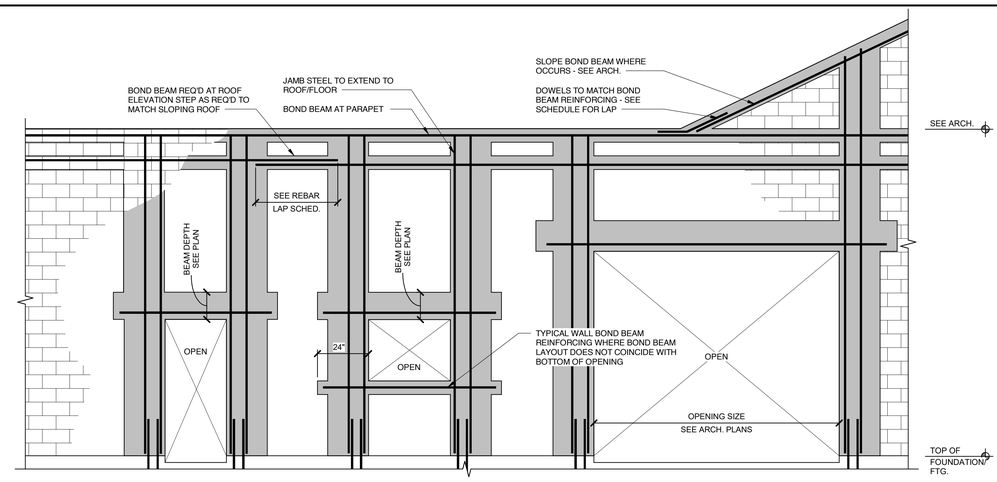


TYP. H.S.A. PATTERN LAYOUT

BEAM SIZE	ANGLE SIZE (EACH SIDE)	WELD 'A'	BOLTS	EMBED CHANNEL	# OF H.S.A.	H.S.A. PATTERN
W8, C8, HSS8	3 x 5 x 1/4"	3/16"	(2) 3/4"Ø	C8 x 13.75 x 0'-8"	4	∷
W10, C10, HSS10	3 x 5 x 5/16"	1/4"	(2) 3/4"Ø	C12 x 20.7 x 1'-4"	6	⁝∷
W12, C12	3 x 5 x 5/16"	1/4"	(3) 3/4"Ø	C12 x 20.7 x 1'-4"	6	⁝∷
W14	3 x 5 x 5/16"	1/4"	(3) 3/4"Ø	C15 x 33.9 x 1'-4"	9	⁝∷⁝
W16	3 x 5 x 5/16"	1/4"	(4) 3/4"Ø	C15 x 33.9 x 2'-0"	12	⁝∷⁝
W18	3 x 5 x 5/16"	1/4"	(5) 3/4"Ø	(2) C12 x 20.7 x 2'-0"	12	⁝∷⁝

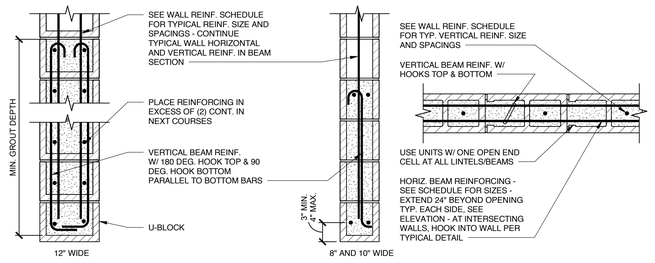
NOTES:
1. AT THE CONTRACTORS OPTION, (2) C8 x 13.7 MAY BE SUBSTITUTED FOR THE C15 x 33.9. HSA PATTERN SHALL BE RECONFIGURED & EQUALLY DISTRIBUTED BETWEEN THE TWO CHANNELS.
2. DOUBLE CHANNELS SHALL BE WELDED TOGETHER WITH A 2" STITCH WELD EVERY 4" AT THE FLANGE TOE.
3. AT HSS BEAM CONNECTION MASONRY, SEE DETAIL 8/S2.7

TYPICAL MASONRY / JAMB REINFORCING SCHEDULE



NOTES:
1. USE OPEN-END UNITS AT INTERSECTIONS OF BEAMS AND JAMBS.
2. TYPICAL HORIZONTAL BOND BEAMS MAY BE ADJUSTED UP OR DOWN BY ONE COURSE PROVIDED THE OVERALL NUMBER OF REQUIRED BOND BEAMS ARE INSTALLED.
3. TYPICAL HORIZONTAL AND VERTICAL WALL REINFORCING NOT SHOWN FOR CLARITY, SEE PLAN AND SCHEDULE FOR TYPICAL WALL REINFORCING.
4. JAMB REINFORCING SHOWN IS SCHEMATIC. SEE SCHEDULE & DETAILS FOR ACTUAL JAMB REINFORCING.
5. ALL VERTICAL WALL REINFORCING SHALL BE CONTINUOUS BETWEEN THE LEVELS IN WHICH THE WALL OCCURS.

MASONRY BEAM SCHEDULE

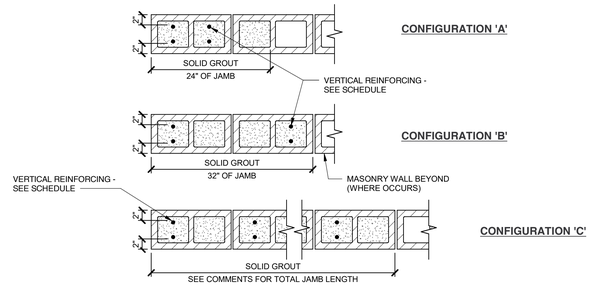


NOTE: SEE TYPICAL DETAIL FOR LINTELS W/ BRICK VENEER

MARK	NOMINAL THICKNESS	BOTTOM REINF.	TOP REINF.	VERTICAL REINF.	MIN. GROUT DEPTH	OPENING (1) SIZE	COMMENTS
MB-24	8" OR 10"	(2) #5	(2) #5	#4 AT 8"o.c.	24"	UP TO 6'-8"	---
MB-32	10"	(2) #5	(2) #5	#4 AT 16"o.c.	32"	UP TO 8'-0"	---
MB-40	10"	(4) #5	(4) #5	#4 AT 16"o.c.	40"	---	---
MB-64	10"	(6) #5	(4) #5	#4 AT 24"o.c.	64"	---	---

NOTES:
1. WHERE SPECIFIC BEAMS ARE NOT NOTED ON THE PLANS - REFER TO OPENING SIZE FOR REQUIRED BEAM DEPTH AND REINFORCING.
2. FIRST VERTICAL BAR TO BE WITHIN 8" OF END OF BEAM.
3. SEE TYPICAL ELEVATION - VIEW OF BEAM.
4. VERTICAL REINFORCING SHALL HAVE HOOKS TOP AND BOTTOM.

MASONRY JAMB SCHEDULE



MARK	NOMINAL THICKNESS	VERTICAL REINF.	TIES	CONFIG.	OPENING (1) SIZE	COMMENTS
MJ-24	8" OR 10"	(4) #5	---	A	UP TO 6'-4"	---
MJ-32A	8" OR 10"	(4) #5	---	B	---	---
MJ-32B	8"	(8) #5	---	B, SIM.	---	---
MJ-40	8" OR 10"	(6) #5	---	C	---	40" OF SOLID GROUT
MJ-48	8" OR 10"	(6) #5	---	C	---	48" OF SOLID GROUT
MJ-80	8" OR 10"	(10) #5	---	C	---	64" OF SOLID GROUT
MJ-120	8" OR 10"	(16) #5	---	C	---	120" OF SOLID GROUT

NOTES:
1. WHERE SPECIFIC JAMBS ARE NOT NOTED ON THE PLANS - REFER TO OPENING SIZE FOR REQUIRED REINFORCING AND CONFIGURATION.
2. ALL VERTICAL REINFORCING SHALL HAVE MATCHING DOWELS CAST INTO FOUNDATIONS.
3. HORIZONTAL REINFORCING NOT SHOWN.
4. JAMBS TO BE GROUTED SOLID.

MASONRY WALL SCHEDULE

MARK	NOMINAL THICKNESS	VERTICAL REINF.		HORIZ. BOND BEAM REINF.					COMMENTS
		SIZE	SPACE	NO.	SIZE	SPACE	AT ROOF	AT ELEVATED FLOOR	
MW-8A	8"	#5	32"	(2)	#4	48"	(6) #5	(4) #5	
MW-8B	8"	#5	24"	(2)	#4	48"	(6) #5	(4) #5	
MW-8C	8"	#5	8"	(2)	#4	24"	(4) #5	(4) #5	SOLID GROUTED
MW-8D	8"	#5	16"	(2)	#4	16"	(4) #5	(4) #5	SOLID GROUTED
MW-8E	8"	#5	32"	(2)	#4	40"	(4) #5	(4) #5	SOLID GROUTED
MW-10A	10"	#5	32"	(2)	#4	40"	(6) #5	(4) #5	
MW-10B	10"	#5	16"	(2)	#4	40"	(6) #5	(4) #5	REQ'D AT ALL PARAPETS GREATER THAN 6'-0". ADDITIONAL VERTICAL REINFORCEMENT SHALL EXTEND BELOW THE ROOF DECK BEARING ELEVATION A MIN. OF 4'-0"
MW-10C	10"	#5	32"	(2)	#4	24"	(6) #5	(4) #5	
MW-10D	10"	#5	32"	(2)	#4	40"	(6) #5	(4) #5	SOLID GROUTED

NOTES:
1. FOR ANY CMU WALLS NOT SPECIFICALLY CALLED OUT IN PLANS, USE MW-8A FOR INTERIOR WALLS AND MW-10A FOR EXTERIOR WALLS.
2. VERTICAL REINFORCING TO BE AT CENTERLINE OF WALL UNLESS OTHERWISE NOTED.
3. SOLID GROUTING OF WALLS IS UNACCEPTABLE EXCEPT WHERE SPECIFICALLY NOTED.
4. SEE STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.
5. A BOND BEAM SHALL BE LOCATED IN THE FIRST COURSE ABOVE THE FOUNDATION IF VERTICAL DOWELS HAVE BEEN BENT TO ALIGN WITH VERTICAL CELLS, WHETHER OR NOT MASONRY WEBS HAVE BEEN CUT.

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HARMONS SPANISH FORK

2643 EAST 400 NORTH
SPANISH FORK, UTAH

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 14, 2026
ARW PROJECT NO: 26210
DESIGN SEQUENCE PROJECT NO: 1431.01
CAD DWG FILE NO:
DRAWN BY: Z. THORNER
DESIGNED BY: A. BOWN
DWG TYPE:
PROJECT PHASE: BID SET

SHEET TITLE

SCHEDULES

S0.4

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STRUCTURAL STEEL SPECIAL INSPECTION SCHEDULE

ESTABLISHED PER 2024 IBC SECTION 1705.2.1

INSPECTION TASKS PRIOR TO WELDING (TABLE N5.4-1)	FABRICATOR / ERECTOR QUALITY CONTROL		SPECIAL INSPECTOR QUALITY ASSURANCE	
	PERFORM	OBSERVE	PERFORM	OBSERVE
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	●			●
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	●		●	
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	●		●	
MATERIAL IDENTIFICATION (TYPE / GRADE)		●		●
WELDER IDENTIFICATION SYSTEM[1]		●		●
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)				
* JOINT PREPARATION				
* DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)		●		●
* CLEANLINESS (CONDITION OF STEEL SURFACES)				
* TACKING (TACK WELD QUALITY AND LOCATION)				
* BACKING TYPE AND FIT (IF APPLICABLE)				
FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y-, AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY)				
* JOINT PREPARATIONS				
* DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	●			●
* CLEANLINESS (CONDITION OF STEEL SURFACES)				
* TACKING (TACK WELD QUALITY AND LOCATION)				
CONFIGURATION AND FINISH OF ACCESS HOLES		●		●
FIT-UP OF FILLET WELDS				
* DIMENSIONS (ALIGNMENT, GAPS AT ROOT)				
* CLEANLINESS (CONDITION OF STEEL SURFACES)		●		●
* TACKING (TACK WELD QUALITY AND LOCATION)				
CHECK WELDING EQUIPMENT		●		

[1] THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. DIE STAMPING OF MEMBERS SUBJECTED TO FATIGUE SHALL BE PROHIBITED UNLESS APPROVED BY THE ENGINEER OF RECORD.

INSPECTION TASKS DURING WELDING (TABLE N5.4-2)	PERFORM	OBSERVE	PERFORM	OBSERVE
CONTROL AND HANDLING OF WELDING CONSUMABLES				
* PACKAGING		●		●
* EXPOSURE CONTROL				
NO WELDING OVER CRACKED TACK WELDS		●		●
ENVIRONMENTAL CONDITIONS				
* WIND SPEED WITHIN LIMITS		●		●
* PRECIPITATION AND TEMPERATURE				
WPS FOLLOWED				
* SETTINGS ON WELDING EQUIPMENT				
* TRAVEL SPEED				
* SELECTED WELDING MATERIALS		●		●
* SHIELDING GAS TYPE / FLOW RATE				
* PREHEAT APPLIED				
* INTERPASS TEMPERATURE MAINTAINED (MIN. / MAX)				
* PROPER POSITION (F, V, H, OH)				
WELDING TECHNIQUES				
* INTERPASS AND FINAL CLEANING				
* EACH PASS WITHIN PROFILE LIMITATIONS		●		●
* EACH PASS MEETS QUALITY REQUIREMENTS				
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	●		●	

INSPECTION TASKS AFTER WELDING (TABLE N5.4-3)	PERFORM	OBSERVE	PERFORM	OBSERVE
WELDS CLEANED		●		●
SIZE, LENGTH AND LOCATION OF WELDS	●		●	
WELDS MEET VISUAL ACCEPTANCE CRITERIA				
* CRACK PROHIBITION				
* WELD / BASE-METAL FUSION				
* CRATER CROSS SECTION	●		●	
* WELD PROFILES				
* WELD SIZE				
* UNDERCUT				
* POROSITY				
ARC STRIKES	●		●	
k-AREA[1]	●		●	
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES[2]	●		●	
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	●		●	
REPAIR ACTIVITIES	●		●	
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER [3]	●		●	
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR		●		●

[1] WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3 IN. (75mm) OF THE WELD)
[2] AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1c) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1d) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.
[3] DIE STAMPING OF MEMBERS SUBJECT TO FATIGUE SHALL BE PROHIBITED UNLESS APPROVED BY THE ENGINEER OF RECORD.

NOTES

1. OBSERVE: THE INSPECTOR SHALL OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
2. PERFORM: THESE TASKS SHALL BE PERFORMED FOR EACH WELDED JOINT OR MEMBER.
3. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.
4. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER, OR ENGINEER OF RECORD (EOR). NONDESTRUCTIVE TESTING SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN ACCORDANCE WITH SECTION N6.
5. QC AND QA INSPECTORS SHALL BE QUALIFIED IN ACCORDANCE WITH AISC 360-22 CHAPTER N4.
6. OBSERVATION OF WELDING OPERATIONS AND VISUAL INSPECTION OF IN-PROCESS AND COMPLETED WELDS SHALL BE THE PRIMARY METHOD TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. FOR STRUCTURAL STEEL, ALL PROVISIONS OF AWS D1.1 / D1.1M STRUCTURAL WELDING CODE - STEEL FOR STATICALLY LOADED STRUCTURES SHALL APPLY.
7. NONDESTRUCTIVE TESTING PERSONNEL SHALL BE QUALIFIED IN ACCORDANCE WITH AISC 360-22 CHAPTER N4.3.
8. NONDESTRUCTIVE TESTING OF WELDED JOINTS SHALL COMPLY WITH AISC 360-22 CHAPTER N5:
   a. ULTRASONIC TESTING (UT), MAGNETIC PARTICLE TESTING (MT), PENETRANT TESTING (PT), AND RADIOGRAPHIC TESTING (RT), WHERE REQUIRED, SHALL BE PERFORMED BY QA IN ACCORDANCE WITH AWS D1.1/D1.1M.
   b. CJP GROOVE WELD NDT:
      FOR STRUCTURES IN RISK CATEGORY III OR IV, AS DEFINED IN ASCE/SEI 7, UT SHALL BE PERFORMED BY QA ON ALL COMPLETE-JOINT-PENETRATION (CJP) GROOVE WELDS SUBJECTED TO TRANSVERSELY APPLIED TENSION LOADING IN BUTT, T-, AND CORNER JOINTS, IN MATERIAL 5/16 IN. (8 MM) THICK OR GREATER. FOR STRUCTURES IN RISK CATEGORY II, UT SHALL BE PERFORMED BY QA ON 10% OF CJP GROOVE WELDS IN BUTT, T-, AND CORNER JOINTS SUBJECTED TO TRANSVERSELY APPLIED TENSION LOADING, IN MATERIALS 5/16 IN. (8 MM) THICK OR GREATER.
   c. WELDED JOINTS SUBJECTED TO FATIGUE:
      WHEN REQUIRED BY AISC APPENDIX 3, TABLE A-3.1, WELDED JOINTS REQUIRING WELD SOUNDNESS TO BE ESTABLISHED BY RADIOGRAPHIC OR ULTRASONIC INSPECTION SHALL BE TESTED BY QA AS PRESCRIBED. REDUCTION IN THE RATE OF UT IS PROHIBITED.
   d. ULTRASONIC TESTING REJECTION RATE:
      THE ULTRASONIC TESTING REJECTION RATE SHALL BE DETERMINED AS THE NUMBER OF WELDS CONTAINING DEFECTS DIVIDED BY THE NUMBER OF WELDS COMPLETED. WELDS THAT CONTAIN ACCEPTABLE DISCONTINUITIES SHALL NOT BE CONSIDERED AS HAVING DEFECTS WHEN THE REJECTION RATE IS DETERMINED. FOR EVALUATING THE REJECTION RATE OF CONTINUOUS WELDS OVER 3 FT (1 M) IN LENGTH WHERE THE EFFECTIVE THROAT IS 1 IN. (25 MM) OR LESS, EACH 12 IN. (300 MM) INCREMENT OR FRACTION THEREOF SHALL BE CONSIDERED AS ONE WELD. FOR EVALUATING THE REJECTION RATE ON CONTINUOUS WELDS OVER 3 FT (1 M) IN LENGTH WHERE THE EFFECTIVE THROAT IS GREATER THAN 1 IN. (25 MM), EACH 6 IN. (150 MM) OF LENGTH, OR FRACTION THEREOF, SHALL BE CONSIDERED ONE WELD.
   e. REDUCTION OF ULTRASONIC TESTING RATE:
      FOR PROJECTS THAT CONTAIN 40 OR FEWER WELDS, THERE SHALL BE NO REDUCTION IN THE ULTRA-SONIC TESTING RATE. THE RATE OF UT IS PERMITTED TO BE REDUCED IF APPROVED BY THE EOR AND THE AHJ. WHERE THE INITIAL RATE OF UT IS 100%, THE NDT RATE FOR AN INDIVIDUAL WELDER OR WELDING OPERATOR IS PERMITTED TO BE REDUCED TO 25%, PROVIDED THE REJECTION RATE, THE NUMBER OF WELDS CONTAINING UNACCEPTABLE DEFECTS DIVIDED BY THE NUMBER OF WELDS COMPLETED, IS DEMONSTRATED TO BE 5% OR LESS OF THE WELDS TESTED FOR THE WELDER OR WELDING OPERATOR. A SAMPLING OF AT LEAST 40 COMPLETED WELDS SHALL BE MADE FOR SUCH REDUCED EVALUATION ON EACH PROJECT.
   f. INCREASE IN ULTRASONIC TESTING RATE:
      FOR STRUCTURES IN RISK CATEGORY II AND HIGHER (WHERE THE INITIAL RATE FOR UT IS 10%) THE NDT RATE FOR AN INDIVIDUAL WELDER OR WELDING OPERATOR SHALL BE INCREASED TO 100% SHOULD THE REJECTION RATE (THE NUMBER OF WELDS CONTAINING UNACCEPTABLE DEFECTS DIVIDED BY THE NUMBER OF WELDS COMPLETED) EXCEED 5% OF THE WELDS TESTED FOR THE WELDER OR WELDING OPERATOR. A SAMPLING OF AT LEAST 20 COMPLETED WELDS ON EACH PROJECT SHALL BE MADE PRIOR TO IMPLEMENTING SUCH AN INCREASE. IF THE REJECTION RATE FOR THE WELDER OR WELDING OPERATOR FALLS TO 5% OR LESS ON THE BASIS OF AT LEAST 40 COMPLETED WELDS, THE RATE OF UT MAY BE DECREASED TO 10%.
   g. DOCUMENTATION:
      ALL NDT PERFORMED SHALL BE DOCUMENTED. FOR SHOP FABRICATION, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY PIECE MARK AND LOCATION IN THE PIECE. FOR FIELD WORK, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY LOCATION IN THE STRUCTURE, PIECE MARK, AND LOCATION IN THE PIECE. WHEN A WELD IS REJECTED ON THE BASIS OF NDT, THE NDT RECORD SHALL INDICATE THE LOCATION OF THE DEFECT AND THE BASIS OF REJECTION.
9. DEMAND CRITICAL WELDS WHERE REQUIRED SHALL BE IN ACCORDANCE WITH AWS D1.8/D1.8M AND AISC 341-22.

INSPECTION TASKS PRIOR TO BOLTING (TABLE N5.6-1)	FABRICATOR/ ERECTOR QUALITY CONTROL		SPECIAL INSPECTOR QUALITY ASSURANCE	
	PERFORM	OBSERVE	PERFORM	OBSERVE
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS		●	●	
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS		●		●
CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)		●		●
CORRECT BOLTING PROCEDURES SELECTED FOR JOINT DETAIL		●		●
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS		●		●
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	●			●
PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS		●		●
INSPECTION TASKS AFTER BOLTING (TABLE N5.6-2)	**PERFORM**	**OBSERVE**	**PERFORM**	**OBSERVE**
FASTENER ASSEMBLIES PLACED IN ALL HOLES, AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED		●		●
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION		●		●
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING		●		●
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES		●		●
INSPECTION TASKS AFTER BOLTING (TABLE N5.6-3)	**PERFORM**	**OBSERVE**	**PERFORM**	**OBSERVE**
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	●		●	

NOTES

1. OBSERVE: THE INSPECTOR SHALL OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
2. PERFORM: THESE TASKS SHALL BE PERFORMED FOR EACH BOLTED CONNECTION.
3. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.
4. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER, OR ENGINEER OF RECORD (EOR).
5. FOR SNUG-TIGHT JOINTS, PRE-INSTALLATION VERIFICATION TESTING AS SPECIFIED IN TABLE N5.6-1 AND MONITORING OF THE INSTALLATION PROCEDURES AS SPECIFIED IN TABLE N5.6-2 ARE NOT APPLICABLE. THE QCI AND QAI NEED NOT BE PRESENT DURING THE INSTALLATION OF FASTENERS IN SNUG-TIGHT JOINTS.
6. FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS, WHEN THE INSTALLER IS USING THE TURN-OF-NUT METHOD OR COMBINED METHOD WITH MATCHMARKING TECHNIQUES, THE DIRECT-TENSION-INDICATOR METHOD, OR THE TWIST-OFF-TYPE TENSION CONTROL BOLT METHOD, MONITORING OF BOLT PRETENSIONING PROCEDURES SHALL BE AS SPECIFIED IN TABLE N5.6-2. THE QCI AND QAI NEED NOT BE PRESENT DURING THE INSTALLATION OF FASTENERS WHEN THESE METHODS ARE USED BY THE INSTALLER.
7. FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS, WHEN THE INSTALLER IS USING THE CALIBRATED WRENCH METHOD OR THE TURN-OF-NUT METHOD OR COMBINED METHOD WITHOUT MATCHMARKING, OR THE CALIBRATED WRENCH METHOD, MONITORING OF BOLT PRETENSIONING PROCEDURES SHALL BE AS SPECIFIED IN TABLE N5.6-2. THE QCI AND QAI SHALL BE ENGAGED IN THEIR ASSIGNED INSPECTION DUTIES DURING INSTALLATION OF FASTENERS WHEN THESE METHODS ARE USED BY THE INSTALLER.
8. OBSERVATION OF BOLTING OPERATIONS SHALL BE THE PRIMARY METHOD USED TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP INCORPORATED IN CONSTRUCTION ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND THE PROVISIONS OF THE RCSC SPECIFICATION.

GENERAL STEEL SPECIAL INSPECTION NOTES:

1. QC INSPECTION TASKS SHALL BE PERFORMED BY THE FABRICATOR'S OR ERECTOR'S QCI, AS APPLICABLE, IN ACCORDANCE WITH SECTIONS N5.4, N5.6, AND N5.7.
2. TASKS IN TABLES N5.4-1 THROUGH N5.4-3 AND TABLES N5.6-1 THROUGH N5.6-3 LISTED FOR QC ARE THOSE INSPECTIONS PERFORMED BY THE QCI TO ENSURE THAT THE WORK IS PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
3. FOR QC INSPECTION, THE APPLICABLE CONSTRUCTION DOCUMENTS ARE THE FABRICATION DOCUMENTS AND THE ERECTION DOCUMENTS, AND THE APPLICABLE REFERENCED SPECIFICATIONS, CODES, AND STANDARDS.
4. THE QAI SHALL REVIEW THE MATERIAL TEST REPORTS AND CERTIFICATIONS AS LISTED IN SECTION N3.2 FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.
5. QA INSPECTION TASKS SHALL BE PERFORMED BY THE QAI IN ACCORDANCE WITH SECTIONS N5.4, N5.6, AND N5.7.
6. TASKS IN TABLES N5.4-1 THROUGH N5.4-3 AND N5.6-1 THROUGH N5.6-3 LISTED FOR QA ARE THOSE INSPECTIONS PERFORMED BY THE QAI TO ENSURE THAT THE WORK IS PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
7. CONCURRENT WITH THE SUBMITTAL OF SUCH REPORTS TO THE AHJ, EOR, OR OWNER, THE QA AGENCY SHALL SUBMIT TO THE FABRICATOR AND ERECTOR THE FOLLOWING:
   (A) INSPECTION REPORTS
   (B) NDT REPORTS
8. WHEN A TASK IS NOTED TO BE PERFORMED BY BOTH QC AND QA, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QCI AND QAI SO THAT THE INSPECTION FUNCTIONS ARE PERFORMED BY ONLY ONE PARTY. WHERE QA RELIES UPON INSPECTION FUNCTIONS PERFORMED BY QC, THE APPROVAL OF THE ENGINEER OF RECORD AND THE AUTHORITY HAVING JURISDICTION IS REQUIRED.
9. EXPOSED CUT SURFACES OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF RECTANGULAR HSS SHALL BE VISUALLY INSPECTED FOR CRACKS SUBSEQUENT TO GALVANIZING. CRACKS SHALL BE REPAIRED OR THE MEMBER SHALL BE REJECTED.
10. THE FABRICATOR'S QCI SHALL INSPECT THE FABRICATED STEEL TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE FABRICATION DOCUMENTS. THIS INCLUDES SUCH ITEMS AS THE CORRECT APPLICATION OF SHOP JOINT DETAILS AT EACH CONNECTION.
11. THE ERECTOR'S QCI SHALL INSPECT THE ERECTED STEEL FRAME TO VERIFY COMPLIANCE WITH THE FIELD INSTALLED DETAILS SHOWN ON THE ERECTION DOCUMENTS.THIS INCLUDES SUCH ITEMS AS BRACES, STIFFENERS, MEMBER LOCATIONS, AND CORRECT APPLICATION OF FIELD JOINT DETAILS AT EACH CONNECTION.
12. THE QAI SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. AS A MINIMUM, THE DIAMETER, GRADE, TYPE, AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE, SHALL BE VERIFIED AND DOCUMENTED PRIOR TO PLACEMENT OF CONCRETE.
13. THE QAI SHALL INSPECT THE FABRICATED STEEL OR ERECTED STEEL FRAME, AS APPLICABLE, TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS.THIS INCLUDES SUCH ITEMS AS BRACES, STIFFENERS, MEMBER LOCATIONS, AND THE CORRECT APPLICATION OF JOINT DETAILS AT EACH CONNECTION.
14. THE ACCEPTANCE OR REJECTION OF JOINT DETAILS AND THE CORRECT APPLICATION OF JOINT DETAILS SHALL BE DOCUMENTED.
15. WHEN THE FABRICATOR OR ERECTOR HAS BEEN APPROVED BY THE AHJ TO PERFORM ALL INSPECTIONS WITHOUT THE INVOLVEMENT OF A THIRD-PARTY, INDEPENDENT QAI, THE FABRICATOR OR ERECTOR SHALL PERFORM AND DOCUMENT ALL OF THE QA INSPECTIONS REQUIRED BY THIS CHAPTER.
16. NDT OF WELDS COMPLETED IN AN APPROVED FABRICATOR'S SHOP IS PERMITTED TO BE PERFORMED BY THAT FABRICATOR WHEN APPROVED BY THE AHJ. WHEN THE FABRICATOR PERFORMS THE NDT, THE NDT REPORTS PREPARED BY THE FABRICATOR'S NDT PERSONNEL SHALL BE AVAILABLE FOR REVIEW BY THE QA AGENCY.
17. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE FABRICATOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. AT COMPLETION OF ERECTION, THE APPROVED ERECTOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE ERECTOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
18. IDENTIFICATION AND REJECTION OF MATERIAL OR WORKMANSHIP THAT IS NOT IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS, SHALL BE PERMITTED AT ANY TIME DURING THE PROGRESS OF THE WORK. HOWEVER, THIS PROVISION SHALL NOT RELIEVE THE OWNER OR THE INSPECTOR OF THE OBLIGATION FOR TIMELY, IN-SEQUENCE INSPECTIONS. NONCONFORMING MATERIAL AND WORKMANSHIP SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE FABRICATOR OR ERECTOR, AS APPLICABLE.
19. NONCONFORMING MATERIAL OR WORKMANSHIP SHALL BE BROUGHT INTO CONFORMANCE, OR MADE SUITABLE FOR ITS INTENDED PURPOSE AS DETERMINED BY THE ENGINEER OF RECORD.
20. CONCURRENT WITH THE SUBMITTAL OF SUCH REPORTS TO THE AHJ, EOR OR OWNER, THE QA AGENCY SHALL SUBMIT TO THE FABRICATOR AND ERECTOR:
    (1) NONCONFORMANCE REPORTS
    (2) REPORTS OF REPAIR, REPLACEMENT OR ACCEPTANCE OF NONCONFORMING ITEMS.

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HARMONS SPANISH FORK

2643 EAST 400 NORTH
SPANISH FORK, UTAH

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 14, 2026
ARW PROJECT NO: 26210
DESIGN SEQUENCE PROJECT NO: 1431.01
CAD DWG FILE NO:
DRAWN BY: Z. THORNER
DESIGNED BY: A. BOWN
DWG TYPE:
PROJECT PHASE: BID SET

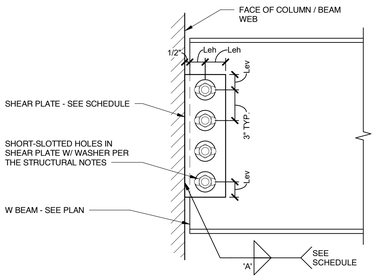
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SCHEDULES

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BEAM CONNECTION SCHEDULE



BEAM DEPTH	SHEAR PLATE INFORMATION			BOLTS W/ STANDARD WASHERS OVER SLOTS		WELD 'A'	COMMENTS
	PLATE DIMENSIONS W/ SHORT-SLOTTED HOLES	Lev	Leh	NO.	SIZE		
W8, W10	PLATE 1/4" x REQ'D.	1 1/2"	2"	2	3/4"Ø	3/16"	---
W12, W14, C12	PLATE 5/16" x REQ'D.	1 1/2"	2"	3	3/4"Ø	1/4"	---
W16	PLATE 5/16" x REQ'D.	1 1/2"	2"	4	3/4"Ø	1/4"	---
W18	PLATE 5/16" x REQ'D.	1 1/2"	2"	5	3/4"Ø	1/4"	---
W21	PLATE 5/16" x REQ'D.	1 1/2"	2"	6	3/4"Ø	1/4"	---
W24	PLATE 3/8" x REQ'D.	1 1/2"	2"	6	7/8"Ø	1/4"	---
W27	PLATE 3/8" x REQ'D.	1 1/2"	2"	7	7/8"Ø	1/4"	---
W30	PLATE 1/2" x REQ'D.	1 3/4"	2"	8	1"Ø	5/16"	---
W33	PLATE 1/2" x REQ'D.	1 3/4"	2"	9	1"Ø	5/16"	---
W36	PLATE 1/2" x REQ'D.	2"	2 1/4"	10	1 1/8"Ø	5/16"	---

SPECIAL INSPECTION SCHEDULE [1, 2]

ESTABLISHED PER 2024 IBC SECTION 110 AND CHAPTER 17

ITEM	CONTINUOUS[3]	PERIODIC[3]	REFERENCE	COMMENTS
STRUCTURAL STAINLESS STEEL (IBC 1705.2.2)			REFERENCE NOTE SS1	SS 1. SPECIAL INSPECTIONS AND NONDESTRUCTIVE TESTING OF STRUCTURAL STAINLESS STEEL IN BUILDINGS AND PORTIONS THEREOF SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 370.
OPEN-WEB STEEL JOISTS AND JOIST GIRDERS (IBC 1705.2.4)				
INSTALLATION OF OPEN-WEB JOISTS AND JOIST GIRDERS				
END CONNECTIONS - WELDED OR BOLTED		●	SJI SPECIFICATIONS LISTED IN SECTION 2207.1	
BRIDGING - HORIZONTAL OR DIAGONAL				
STANDARD BRIDGING		●	SJI SPECIFICATIONS LISTED IN SECTION 2207.1	
BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1		●		
CONCRETE CONSTRUCTION (IBC 1705.3)			SEE IBC TABLE 1705.3 - REF. NOTES C1 AND C2	C 1. SPECIAL INSPECTION IS NOT REQUIRED FOR: A. ISOLATED SPREAD CONCRETE FOOTINGS OF BUILDINGS THREE STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK. B. CONTINUOUS CONCRETE FOOTINGS SUPPORTING WALLS OF BUILDINGS THREE STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK WHERE: a. THE FOOTINGS SUPPORT WALLS OF LIGHT-FRAME CONSTRUCTION. b. THE FOOTINGS ARE DESIGNED IN ACCORDANCE WITH TABLE 1809.7. c. THE STRUCTURAL DESIGN OF THE FOOTING IS BASED ON A SPECIFIED COMPRESSIVE STRENGTH, fc NOT MORE THAN 2,500 POUNDS PER SQUARE INCH (PSI) (17.2 MPa), REGARDLESS OF THE COMPRESSIVE STRENGTH SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS OR USED IN THE FOOTING CONSTRUCTION. C. NONSTRUCTURAL CONCRETE SLABS SUPPORTED DIRECTLY ON THE GROUND, INCLUDING PRESTRESSED SLABS ON GRADE, WHERE THE EFFECTIVE PRESTRESS IN THE CONCRETE IS LESS THAN 150 PSI (1.03 MPa). D. CONCRETE FOUNDATION WALLS CONSTRUCTED IN ACCORDANCE WITH TABLE 1807.1.6.2. E. CONCRETE PATIOS, DRIVEWAYS AND SIDEWALKS, ON GRADE. C 2. REFERENCE IBC 1705.13 FOR REFERENCED STANDARDS WHERE APPLICABLE. C 3. WELDING REINFORCING BARS: SPECIAL INSPECTIONS OF WELDING AND QUALIFICATIONS OF SPECIAL INSPECTORS FOR REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF AWS D1.4 FOR SPECIAL INSPECTION AND OF AWS D1.4 FOR SPECIAL INSPECTOR QUALIFICATION. C 4. EPOXY AND EXPANSION ANCHORS INTO MASONRY OR CONCRETE MAY BE USED ONLY WHEN APPROVED BY ARCHITECT AND/OR ENGINEER USING AN APPROVED PRODUCT WITH CURRENT PUBLISHED ICC RESEARCH REPORT NUMBERS. SPECIFIC REQUIREMENTS FOR SPECIALINSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH IBC 26.13 AND ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF WORK.
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT		●		
2. **REINFORCING BAR WELDING:**			REFERENCE NOTE C3	
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		●		
b. INSPECT WELDING OF REINFORCEMENT FOR SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS AND COUPLING BEAMS	●			
c. INSPECT WELDED REINFORCEMENT SPLICES	●			
d. INSECT WELDING OF PRIMARY TENSION REINFORCEMENT IN CORBELS	●			
e. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"		●		
f. INSPECT ALL OTHER WELDS		●		
3. INSPECT ANCHORS CAST IN CONCRETE		●		
4. **INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:**			REFERENCE NOTE C4	
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	●			
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a		●		
5. VERIFY USE OF REQUIRED DESIGN MIX.		●		
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	●			
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	●			
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		●		
9. **INSPECT PRESTRESSED CONCRETE FOR:**				
a. APPLICATION OF PRESTRESSING FORCES	●			
b. GROUTING OF BONDED PRESTRESSING TENDONS	●			
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS		●		
11. **FOR PRECAST CONCRETE DIAPHRAGM CONNECTIONS OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F, INSPECT SUCH CONNECTIONS AND REINFORCEMENT IN THE FIELD FOR:**				
a. INSTALLATION OF THE EMBEDDED PARTS	●			
b. INSPECT TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5	●			
c. COMPLETION OF CONNECTIONS IN THE FIELD	●			
12. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS ON POST-TENSION CONCRETE AND PRIOR TO REMOVAL OF SHORIES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		●		
13. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		●		
MASONRY CONSTRUCTION (IBC 1705.4)			SEE TMS 402/ACI 550 TABLE 1.19.2 (NON-ESSENTIAL)	M 1. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR VERIFICATION OF THE WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706 IN ACCORDANCE WITH ANSI / AWS D1.4. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS, AND SHEAR REINFORCEMENT. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR WELDING OF OTHER ASTM A 706 REINFORCING STEEL NOT INCLUDED IN THE CONTINUOUS SPECIAL INSPECTION REQUIREMENTS NOTED ABOVE. M 2. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR ESSENTIAL FACILITIES (TMS 602-16/ACI 530.1 TABLE 3). M 3. EPOXY AND EXPANSION ANCHORS INTO MASONRY OR CONCRETE MAY BE USED ONLY WHEN APPROVED BY ARCHITECT AND/OR ENGINEER USING AN APPROVED PRODUCT WITH CURRENT PUBLISHED ICC RESEARCH REPORT NUMBERS. COORDINATE CONTINUOUS/PERIODIC SPECIAL INSPECTION REQUIREMENTS WITH ICC REPORT.
AS MASONRY CONSTRUCTION BEGINS, VERIFY:				
SITE PREPARED MORTAR		●		
MORTAR JOINTS		●		
REINFORCEMENT / CONNECTORS		●		
PRE-STRESSING TECHNIQUES		●		
GRADE & SIZE OF TENDONS & ANCHORAGES		●		
INSPECTION SHALL VERIFY:				
SIZE & LOCATION OF STRUCTURAL ELEMENTS		●		
TYPE, SIZE, & LOCATION OF ANCHORS		●	REFERENCE NOTE M2	
SIZE, GRADE & TYPE OF REINFORCEMENT		●		
WELDING OF REINFORCING BARS	●		REFERENCE NOTE M1	
HOT OR COLD WEATHER PROTECTION		●		
MEASUREMENT OF PRE-STRESSING FORCE		●	REFERENCE NOTE M2	
PRIOR TO GROUTING, VERIFY:				
CLEAN GROUT SPACE		●	REFERENCE NOTE M2	
PLACEMENT OF REINFORCEMENT CONNECTORS, TENDONS AND ANCHORS.		●		
PROPORTIONS OF SITE PREPARED GROUT		●		
CONSTRUCTION OF MORTAR JOINTS		●		
GROUT PLACEMENT	●			
GROUTING OF PRE-STRESSING BONDED TENDONS	●			
PREPARATION OF TEST SPECIMENS / PRISMS	●			
COMPLIANCE W/ CONST. DOCS. / SUBMITTALS		●		
EPOXY / EXPANSION ANCHOR PLACEMENT	●	●	REFERENCE NOTE M3	
VERIFICATION OF f'm AND f'aac		●		
SELF CONSOLIDATING GROUT:				
VERIFY SLUMP FLOW AND VSI	●			
COLD FORMED FRAMING (IBC 1705.12.2 & 1705.13.3)				CF 1. SPECIAL INSPECTION IS NOT REQUIRED FOR COLD-FORMED STEEL LIGHT-FRAME SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLDOWNS WHERE SHEATHING IS WOOD STRUCTURAL PANEL OR STEEL SHEETS ON ONLY ONE SIDE OF THE SHEAR WALL, SHEAR PANEL OR DIAPHRAGM ASSEMBLY AND THE SPECIFIED FASTENER SPACING AT THE PANEL OR SHEET EDGES.
LIGHT GAUGE METAL FRAMING WELDING		●		
SHEAR WALL & DIAPHRAGM ATTACHMENTS		●		
DRAG STRUT & BRACE INSTALLATION		●		
HOLDOWN INSTALLATION		●		
SOILS (IBC 1705.6)			REFERENCE NOTE F1	F 1. SPECIAL INSPECTION OF SOILS SHALL REFERENCE THE APPROVED GEOTECHNICAL REPORT TO DETERMINE COMPLIANCE. F 2. WHERE GEOTECHNICAL REPORT IS NOT PROVIDED SPECIAL INSPECTIONS ARE REQUIRED TO VERIFY THAT THE IN-PLACE DRY DENSITY OF THE COMPACTED FILL IS NOT LESS THAN 90 PERCENT OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT DETERMINED IN ACCORDANCE WITH ASTM D1557. F 3. CONTINUOUS SPECIAL INSPECTION IS REQUIRED DURING FILL PLACEMENT. VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.
VERIFY ADEQUATE MATERIALS BELOW FOOTINGS		●	REFERENCE NOTE F1	
EXCAVATIONS EXTEND TO PROPER DEPTH AND REACH PROPER MATERIAL		●	REFERENCE NOTE F2	
CLASSIFY & TEST CONTROLLED FILL MATERIALS		●	REFERENCE NOTE F2	
FILL MATERIAL AND PLACEMENT	●		REFERENCE NOTE F3	
PROPERLY PREPARED SITE AND SUB-GRADE PRIOR TO FILL		●	REFERENCE NOTE F1	

GENERAL SPECIAL INSPECTION NOTES :

1. THE ITEMS MARKED WITH A '●' IN THE SPECIAL INSPECTION SCHEDULE SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE MATERIAL SAMPLING AND TESTING SECTION, THE PROJECT SPECIFICATIONS, AND THE SPECIFIC GENERAL NOTES SECTIONS. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL. ANY ITEMS WHICH FAIL TO COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL, ARCHITECT, AND ENGINEER PRIOR TO COMPLETION OF THAT PHASE OF WORK. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.
2. ANY CONSTRUCTION OR MATERIAL THAT HAS FAILED INSPECTION SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT.
3. CONTINUOUS SPECIAL INSPECTION MEANS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION MEANS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK. (IBC SECTION 202).

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HARMONS SPANISH FORK

2643 EAST 400 NORTH
SPANISH FORK, UTAH

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 14, 2026
ARW PROJECT NO: 26210
DESIGN SEQUENCE PROJECT NO: 1431.01
CAD DWG FILE NO:
DRAWN BY: Z. THORNER
DESIGNED BY: A. BOWN
DWG TYPE:
PROJECT PHASE: BID SET

SHEET TITLE

SCHEDULES

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COLD-FORMED STEEL DECK SPECIAL INSPECTION SCHEDULE

ESTABLISHED PER 2024 IBC SECTION 1705.2.3 AND SDI QA/QC-2022

INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT (TABLE 1.1)	INSTALLER QUALITY CONTROL		SPECIAL INSPECTOR QUALITY ASSURANCE	
	PERFORM	OBSERVE	PERFORM	OBSERVE
VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS	●		●	
DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES	●		●	
INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT (TABLE 1.2)	**PERFORM**	**OBSERVE**	**PERFORM**	**OBSERVE**
VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS	●		●	
VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS			●	
DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES	●		●	
INSPECTION OR EXECUTION TASKS PRIOR TO WELDING (TABLE 1.3)	**PERFORM**	**OBSERVE**	**PERFORM**	**OBSERVE**
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE		●		●
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE		●		●
MATERIAL IDENTIFICATION (TYPE/GRADE)		●		●
CHECK WELDING EQUIPMENT		●		●
INSPECTION OR EXECUTION TASKS DURING WELDING (TABLE 1.4)	**PERFORM**	**OBSERVE**	**PERFORM**	**OBSERVE**
USE OF QUALIFIED WELDERS		●		●
CONTROL AND HANDLING OF WELDING CONSUMABLES		●		●
ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)		●		●
WPS FOLLOWED		●		●
INSPECTION OR EXECUTION TASKS AFTER WELDING (TABLE 1.5)	**PERFORM**	**OBSERVE**	**PERFORM**	**OBSERVE**
VERIFY SIZE AND LOCATIONS OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS	●		●	
WELDS MEET VISUAL ACCEPTANCE CRITERIA	●		●	
VERIFY REPAIR ACTIVITIES	●		●	
DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	●		●	
INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING (TABLE 1.6)	**PERFORM**	**OBSERVE**	**PERFORM**	**OBSERVE**
MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS		●		●
PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION		●		●
PROPER STORAGE FOR MECHANICAL FASTENERS		●		●
INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING (TABLE 1.7)	**PERFORM**	**OBSERVE**	**PERFORM**	**OBSERVE**
FASTENERS ARE POSITIONED AS REQUIRED		●		●
FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS		●		●
INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING (TABLE 1.8)	**PERFORM**	**OBSERVE**	**PERFORM**	**OBSERVE**
CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS	●		●	
CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS	●		●	
CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS	●		●	
VERIFY REPAIR ACTIVITIES	●		●	
DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS	●		●	

NOTES

1. OBSERVE - SHALL MEAN TO INSPECT THESE ITEMS ON AN INTERMITTENT BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. FREQUENCY OF OBSERVATIONS SHALL BE ADEQUATE TO CONFIRM THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE DOCUMENTS. IN THE EVENT THAT OBSERVATIONS DETERMINE THAT THE MATERIALS AND/OR WORKMANSHIP ARE NOT IN CONFORMANCE WITH THE APPLICABLE DOCUMENTS, ADDITIONAL INSPECTIONS SHALL BE PERFORMED TO DETERMINE THE EXTENT OF NONCONFORMANCE.
2. PERFORM - SHALL MEAN TO PERFORM THESE TASKS FINAL TO ACCEPTANCE FOR EACH ITEM OR ELEMENT
3. WITHIN THE LISTED TASKS, "DOCUMENT" SHALL MEAN THE INSPECTOR SHALL PREPARE REPORTS OR OTHER APPROPRIATE WRITTEN DOCUMENTATION INDICATING THAT THE WORK HAS OR HAS NOT BEEN PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.

GENERAL SPECIAL INSPECTION NOTES :

1. QUALITY CONTROL TASKS SHALL BE PERFORMED BY THE INSTALLER'S QUALITY CONTROL INSPECTOR (QCI).
2. FOR QUALITY CONTROL INSPECTION, THE CONSTRUCTION DOCUMENTS, INSTALLATION DOCUMENTS, PRODUCTION DOCUMENTS, DESIGN DOCUMENTS AND THE APPLICABLE REFERENCED STANDARDS SHALL BE UTILIZED.
3. THE INSTALLER SHALL PRODUCE AND MAINTAIN QC PROCEDURES AND PERFORM INSPECTION TO CONFIRM THAT THEIR WORK IS PERFORMED IN ACCORDANCE WITH SDI QA/QC-2022, CONSTRUCTION DOCUMENTS, INSTALLATION DOCUMENTS, PRODUCTION DOCUMENTS, DESIGN DOCUMENTS, AND THE APPLICABLE REFERENCE STANDARDS. ALL MATERIAL CONTROL AND INSTALLATION PROCEDURES SHALL BE MONITORED BY THE INSTALLER'S QCI.
4. THE INSTALLER'S QCI SHALL INSPECT THE ITEMS LISTED IN SDI QA/QC-2022, SECTION D1.2.2, AS APPLICABLE.
5. QUALITY ASSURANCE INSPECTION OF THE DECK SHALL BE MADE AT THE PROJECT SITE. THE OWNER'S DESIGNATED REPRESENTATIVE FOR CONSTRUCTION (ORC) SHALL SCHEDULE THIS WORK WITH THE QUALITY ASSURANCE INSPECTOR (QAI) AND THE INSTALLER TO MINIMIZE INTERRUPTIONS TO THE WORK OF THE INSTALLER.
6. THE QAI SHALL REVIEW THE MATERIALS TEST REPORTS AND CERTIFICATIONS LISTED IN SECTION B2 OF SDI QA/QC-2022 FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.
7. QUALITY ASSURANCE TASKS SHALL BE PERFORMED BY THE QAI.
8. THE QAI SHALL SUBMIT LISTS OF NONCONFORMING ITEMS TO THE ORC AND THE INSTALLER CONCURRENTLY WITH THE SUBMITTAL OF REPORTS TO THE AUTHORITY HAVING JURISDICTION (AHJ), ARW ENGINEERS, OR THE ORC.
9. THE QAI SHALL PERFORM THE VERIFICATIONS AND INSPECTIONS LISTED UNDER SECTION D2.2 OF SDI QA/QC-2022, AS APPLICABLE.
10. WHERE A TASK IS TO BE PERFORMED BY BOTH QA AND QC, IT SHALL BE PERMITTED TO COORDINATE INSPECTION FUNCTIONS BETWEEN THE QCI AND QAI SO THAT THE INSPECTIONS ARE PERFORMED BY ONLY ONE PARTY WHEN APPROVED IN ADVANCE BY THE ORC, ARW ENGINEERS, AND AHJ. WHEN QA TASKS ARE PERFORMED ONLY BY THE QCI, EACH INSPECTION IS TO BE DOCUMENTED IN A REPORT AND THE QAI SHALL PERIODICALLY REVIEW THE WORK OF THE QCI AT AN INTERVAL ACCEPTABLE TO THE ORC, ARW ENGINEERS, AND THE AHJ.
11. IN THE EVENT THAT THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS CONFLICT WITH THE INSTALLATION DOCUMENTS OR PRODUCTION DOCUMENTS, THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS SHALL GOVERN.
12. IDENTIFICATION AND REJECTION OF MATERIALS AND WORKMANSHIP NOT IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS SHALL BE PERMITTED AT ANY TIME DURING PROGRESS OF OR FOLLOWING THE COMPLETION OF THE WORK. HOWEVER, THIS PROVISION SHALL NOT RELIEVE THE ORC OR THE INSPECTOR OF THE OBLIGATION FOR TIMELY, IN-SEQUENCE INSPECTIONS. NONCONFORMING MATERIAL OR WORKMANSHIP SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ORC AND THE DECK INSTALLER. NONCONFORMING MATERIAL OR WORKMANSHIP SHALL BE BROUGHT IN CONFORMANCE OR MADE SUITABLE FOR ITS INTENDED PURPOSE AS DETERMINED BY ARW ENGINEERS.

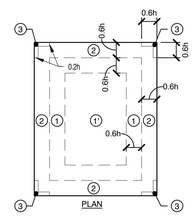
2024 IBC COMPONENT AND CLADDING DESIGN WIND PRESSURES

COMPONENT AND CLADDING WIND PRESSURES (PSF)

ZONE	EFFECTIVE WIND AREA (ft²)			
	≤ 10	50	100	500
1'	16 -20.3	16 -20.3	16 -20.3	16 -16
1	16 -35.3	16 -29.9	16 -27.6	16 -22.2
2	20.3 -46.6	18.2 -39.6	17.3 -36.6	16 -29.7
3	20.3 -46.6	18.2 -39.6	17.3 -36.6	16 -29.7
4	20.3 -22	18.2 -19.9	17.3 -19	16 -16.9
5	20.3 -27	18.2 -22.9	17.3 -21.1	16 -16.9

NOTES:

1. PRESSURES LISTED ARE ULTIMATE STRENGTH DESIGN WIND PRESSURES.
2. POSITIVE PRESSURE ACTS TOWARD THE SURFACE AND NEGATIVE PRESSURE ACTS AWAY FROM THE SURFACE.

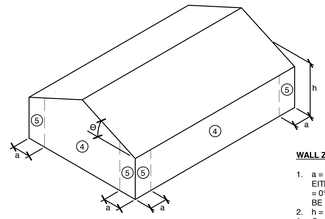


GABLE ROOFS, Θ < 7°

ROOF ZONE NOTES:

1. a = 10% OF LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4% OF LEAST HORIZONTAL DIMENSION OR 3 FT (0.9M). IF AN OVERHANG EXISTS, THE EDGE DISTANCE SHALL BE MEASURED FROM THE OUTSIDE EDGE OF THE OVERHANG. THE HORIZONTAL DIMENSIONS USED TO COMPUTE THE EDGE DISTANCE SHALL NOT INCLUDE ANY OVERHANG DIMENSIONS.
2. h = MEAN ROOF HEIGHT, IN FT (M), EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR Θ ≤ 10.
3. Θ = ANGLE OF ROOF PLANE FROM HORIZONTAL, DEGREES.

ROOF ZONES



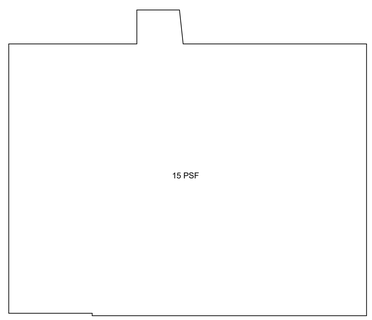
WALL ZONE NOTES:

1. a = 10% OF LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4% OF LEAST HORIZONTAL DIMENSION OR 3 FT (0.9M). EXCEPTION: FOR BUILDINGS WITH Θ = 0° TO 7° AND A LEAST HORIZONTAL DIMENSION GREATER THAN 300 FT (90M), DIMENSION a SHALL BE LIMITED TO A MAXIMUM OF 0.8h.
2. h = MEAN ROOF HEIGHT, IN FT (M), EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR Θ ≤ 10.
3. Θ = ANGLE OF ROOF PLANE FROM HORIZONTAL, DEGREES.

WALL ZONES

WIND UPLIFT SCHEDULE

(FOR JOIST AND JOIST GIRDER DESIGN)



KEY PLAN

NOTE : LOADS SHOWN ARE NET UPLIFT LOADS. 60% OF DEAD LOAD HAS BEEN SUBTRACTED FROM GROSS WIND UPLIFT LOAD.

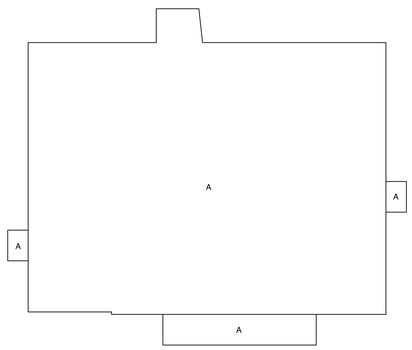
FOR OVERHANG PRESSURE, USE TYP. CORNER ZONE PRESSURE.

ROOF DECK SCHEDULE

FASTENING PATTERNS



PATTERN : 36/7



KEY PLAN

AREA	DECK			ATTACHMENT						MIN. SHEAR CAPACITY, lb/ft (ASD)	MIN. SHEAR STIFFNESS G' (kip/in)	COMMENTS
				SUPPORTS		SIDE SEAMS		SUPPORTS PARALLEL TO FLUTES				
	DEPTH	TYPE.	GA.	TYPE[2]	PATTERN	TYPE[2]	SPACING	TYPE[2]	SPACING			
A	1 1/2"	B	22	PAF	36/7	VSC2	18"o.c.	PAF	8"o.c.	900	125	---
---	---	---	---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---	---	---	---

NOTES:

1. ALL ROOF DECKING TO BE SUPPLIED BY VERCO, OR APPROVED EQUAL. ALTERNATE DECKING SHALL BE SUBMITTED WITH CURRENT ICC APPROVAL TO ENGINEER FOR REVIEW AND APPROVAL. ALTERNATE DECKING SYSTEMS SHALL MEET OR EXCEED THE MINIMUM SHEAR CAPACITY AND SHALL PROVIDE GREATER THAN OR EQUAL TO THE MINIMUM SHEAR STIFFNESS LISTED IN THE SCHEDULE.
2. PAF = HILTI X-HSN 24 POWDER ACTUATED FASTENERS, VSC2 = VERCO SIDELAP CONNECTION WITH PUNCHLOK TOOL, SCREWS = SELF DRILLING SCREW PER ASTM C1513, SPOT WELD = 3/4" VISIBLE DIAMETER SPOT WELD.
3. USE NESTABLE (OVERLAPPING) SIDE SEAMS AT SCREW ATTACHMENTS AND INTERLOCKING SIDE SEAMS AT WELDS.
4. IF N DECK IS NOT NESTABLE, N DECK END BUTT JOINTS OVER STEEL JOISTS SHALL USE 16 GA. x 6" CONTINUOUS SHEET BETWEEN DECK AND JOIST TOP CHORD ANGLES. DECK WELDS TO PENETRATE SHEET AND ENGAGE JOIST CHORD.
5. ALL DECK WITH A PROFILE DEPTH OF 2" OR LESS SHALL HAVE NESTED OR TELESCOPED END LAPS.
6. WHERE WELDS ARE USED, SUPPORT WELDS AT INTERLOCKING SIDELAPS MAY BE 3/8" x 1-1/4" ARC SEAM WELDS IN LIEU OF ARC SPOT WELDS.

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HARMONS SPANISH FORK

2643 EAST 400 NORTH
SPANISH FORK, UTAH

MARK	DATE	DESCRIPTION

DATE:	SEPTEMBER 14, 2026
ARW PROJECT NO:	26210
DESIGN SEQUENCE PROJECT NO:	1431.01
CAD DWG FILE NO:	
DRAWN BY:	Z. THORNER
DESIGNED BY:	A. BOWN
DWG TYPE:	
PROJECT PHASE:	BID SET

SHEET TITLE

SCHEDULES

S0.7

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FOOTING & FOUNDATION NOTES :

1. SEE SHEET S0.1 AND S0.2 FOR GENERAL STRUCTURAL NOTES.
2. ALL FOOTINGS SHALL BE PLACED ON SOIL WHICH HAS BEEN PREPARED FOR THE BEARING PRESSURE SHOWN IN THE STRUCTURAL NOTES.
3. VERIFY ALL DIMENSIONS WITH DRAWINGS AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOUND.
4. SOLID GROUT ALL MASONRY COURSES BELOW FINISHED FLOOR OR EXTERIOR GRADE (WHICHEVER IS HIGHER).
5. SEE SHEET S0.3 FOR FOOTING SCHEDULE.
6. PROVIDE DOWELS IN FOOTINGS / FOUNDATIONS TO MATCH VERTICAL WALL REINFORCING U.N.O.
7. SEE SHEET S2.1 FOR TYPICAL FOOTING AND FOUNDATION DETAILS.
8. ALL EXTERIOR WALL FOOTINGS TO BEAR A MINIMUM DIMENSION BELOW EXTERIOR GRADE AS NOTED IN GENERAL STRUCTURAL NOTES.
9. FOUNDATION WALLS ARE DESIGNED AND DETAILED FOR THE COMPLETED CONDITION. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. BACKFILLED WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION AND BACKFILLING TO PRODUCE PLUMB AND TRUE FINISHED WALLS.
10. ALL ANCHORS, HOLDOWNS, ANCHOR BOLTS, DOWELS, EMBEDDED ITEMS, ETC. SHALL BE HELD IN PLACE PRIOR TO AND DURING CONCRETE AND/OR GROUT PLACEMENT.
11. COORDINATE ALL FOOTING DEPTHS (INTERIOR AND EXTERIOR) WITH DRAINS, CONDUITS, ETC. THAT MAY INTERFERE WITH FOOTINGS.

CONCRETE SLAB NOTES :

1. SLAB ON GRADE SHALL BE 4" THICK CONCRETE U.N.O. SLAB SHALL BE UNDERLAIN BY FREE DRAINING MATERIAL AS PRESCRIBED IN THE SOILS REPORT.
2. SEE SHEET S2.1 FOR CONTROL AND CONSTRUCTION JOINT INFORMATION.
3. INDICATES 4" SLAB REINFORCED WITH #3 BARS AT 18"o.c. EACH WAY.
4. RECESSED SLAB ON GRADE. SEE ARCHITECT FOR TOP OF SLAB ELEVATION. SEE DETAIL 9/S2.2 FOR TYPICAL RECESSED SLAB INFORMATION.
5. REVIEW ARCH DRAWINGS FOR ALL RECESSED SLAB LOCATIONS.

FOOTING AND FOUNDATION PLAN

SCALE : 3/32" = 1'-0"

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HARMONS SPANISH FORK

2643 EAST 400 NORTH
SPANISH FORK, UTAH

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DESIGNED BY:	A. Bown
DWG TYPE:	
PROJECT PHASE:	BID SET

SHEET TITLE

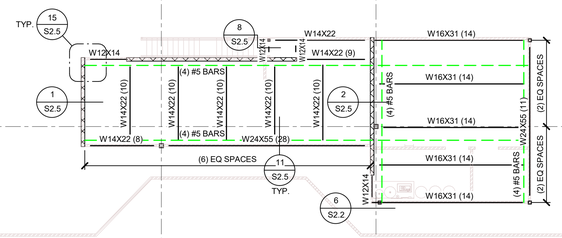
FOOTING & FOUNDATION PLAN

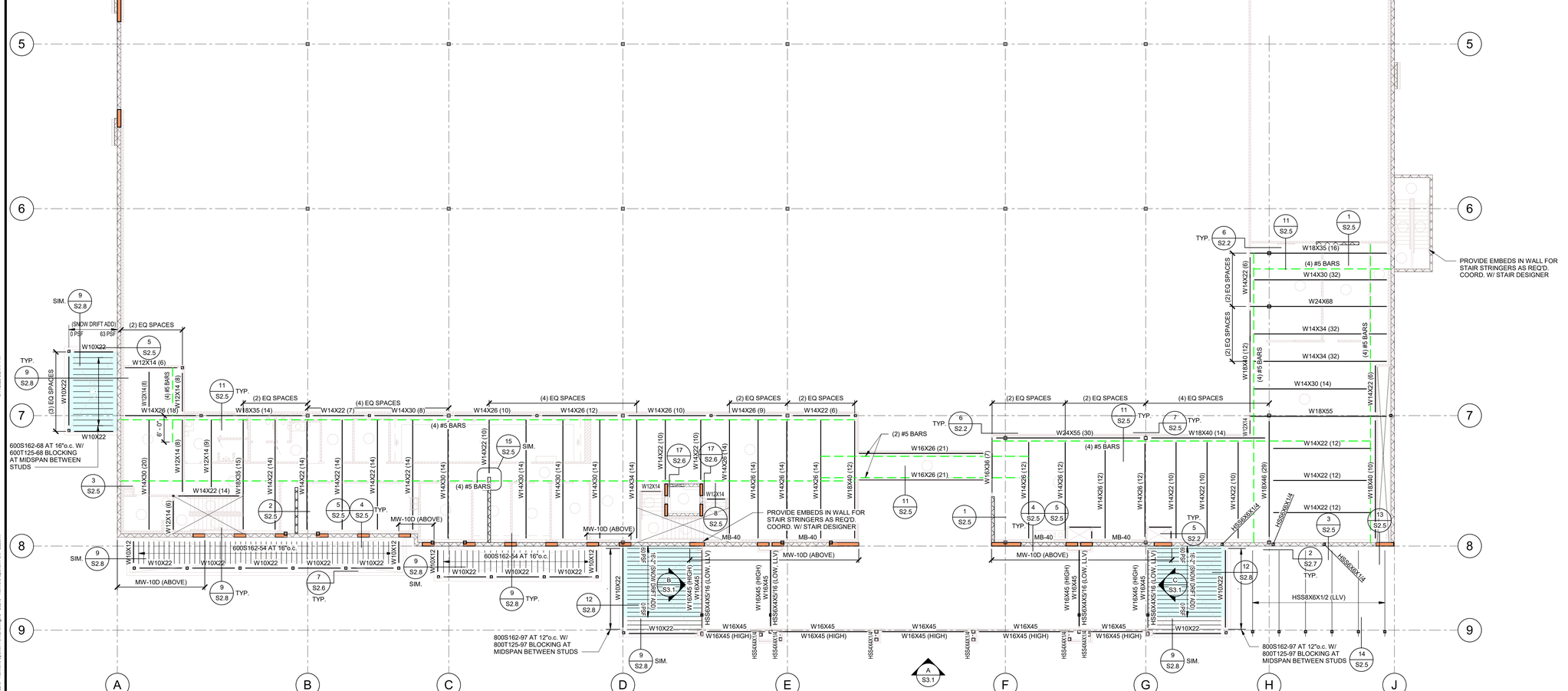
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FLOOR FRAMING NOTES :

1. SEE SHEET S0.1 AND S0.2 FOR GENERAL STRUCTURAL NOTES
2. CONCRETE FLOOR SLABS SHALL CONSIST OF A CONCRETE SLAB ON METAL DECK AS INDICATED IN THE GENERAL STRUCTURAL NOTES. SLAB THICKNESS IS TOTAL FROM BOTTOM OF DECK TO TOP OF CONCRETE. THE WELDED WIRE FABRIC/REINFORCING SHALL BE PLACED AT THE APPROXIMATE CENTERLINE OF THE CONCRETE DEPTH OVER THE TOP FLUTE OF THE FORMLOK DECK.
3. ( ) DENOTES QUANTITY OF 3/4" DIAMETER X 4" LONG HSA ALONG BEAM TOP FLANGE.
4. c = DENOTES AMOUNT OF CAMBER IN WF BEAM AT MIDSPAN.
5. PROVIDE TYPICAL SLAB CLOSURE AT ALL OPENINGS AND SLAB EDGES AS PER DETAIL 5/S2.2 OR 11/S2.5. TYPICAL UNLESS NOTED OTHERWISE.
6. SEE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR ELEVATIONS.
7. SEE S0.4 FOR MASONRY BEAM/LINTEL SCHEDULE.
8. WHERE STEEL FLOOR DECK RUNS PERPENDICULAR TO BEAMS WITH HSA, HSA SHALL BE FIELD WELDED TO BEAMS THRU DECK MATERIAL.
9. WHERE STEEL FLOOR DECK RUNS PARALLEL TO BEAMS WITH HSA, A 2-1/2" X CONTINUOUS EXPOSED BEAM FLANGE SURFACE IS REQUIRED FOR CONCRETE COVER OF HSA.
10. DO NOT PROVIDE CONTROL JOINTS IN SUSPENDED CONCRETE SLABS.
11. CONSTRUCTION JOINTS IN SLABS ON DECK SHALL NOT BE CLOSER THAN 12" TO HSA.
12. AT NON-COMPOSITE BEAMS AND JOISTS AND WHERE HSA'S ARE SPACED AT MORE THAN 12" O.C., WELD DECK TO SUPPORT WITH 3/4" DIAMETER PUDDLE WELDS AT 12" O.C.





MEZZANINE AND CANOPY FRAMING PLAN

SCALE : 3/32" = 1'-0"

A S1.2

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HARMONS SPANISH FORK

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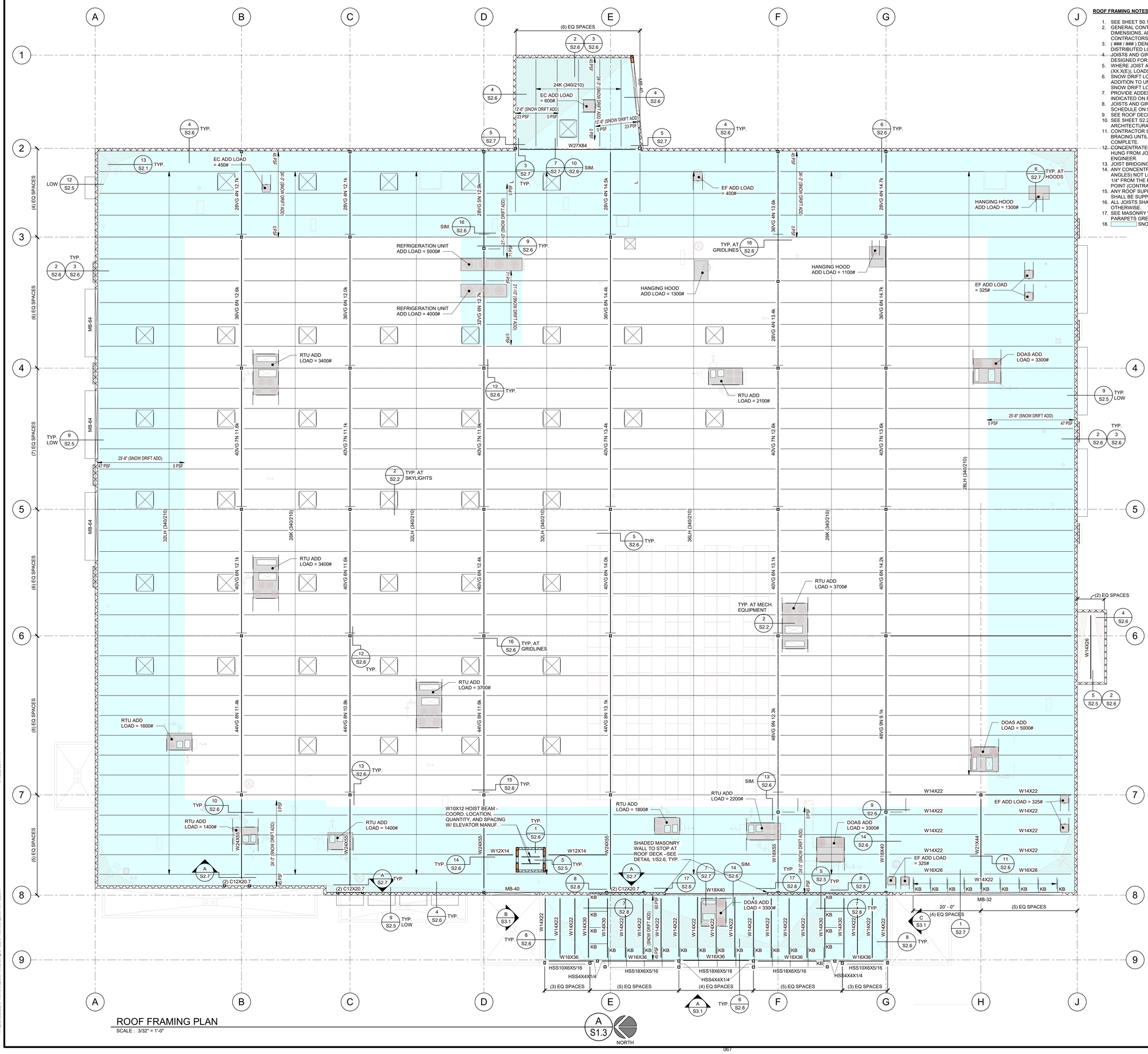
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ARW PROJECT NO:	26210
DESIGN SEQUENCE PROJECT NO:	1431.01
CAD DWG FILE NO:	
DRAWN BY:	Z. THORNER
DESIGNED BY:	A. BOWN
DWG TYPE:	
PROJECT PHASE:	BID SET

SHEET TITLE

FLOOR FRAMING PLAN

S1.2

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ROOF FRAMING NOTES :

1. SEE SHEET S0.1 AND S0.2 FOR GENERAL STRUCTURAL NOTES.
2. GENERAL CONTRACTOR SHALL VERIFY MECHANICAL EQUIPMENT WEIGHTS, DIMENSIONS, AND LOCATIONS W/ MECHANICAL AND REFRIGERATION CONTRACTORS PRIOR TO ORDERING/FABRICATING JOISTS.
3. (### / ###) DENOTES APPLIED TOTAL AND SNOW (0.7S) UNIFORMLY DISTRIBUTED LOADS IN POUNDS PER LINEAR FOOT OF JOIST, RESPECTIVELY.
4. JOISTS AND GIRDERS SUPPORTING MECHANICAL EQUIPMENT SHALL BE DESIGNED FOR ADDITIONAL LOADS INDICATED.
5. WHERE JOIST AXIAL LOADS ARE SHOWN ON THE PLANS (XX.X(W)) OR (XX.X(E)), LOADS ARE ASD LEVEL LOADS.
6. SNOW DRIFT LOADS INDICATED ON FRAMING PLANS SHALL BE APPLIED IN ADDITION TO UNIFORMLY DISTRIBUTED LOADS INDICATED PER NOTE 3. SNOW DRIFT LOADS SHOWN ARE 0.7S.
7. PROVIDE ADDED HORIZONTAL AND VERTICAL JOISTS LOADS WHERE INDICATED ON PLAN OR DETAILS.
8. JOISTS AND GIRDERS SHALL BE DESIGNED FOR NET WIND UPLIFT PER SCHEDULE ON SHEET S0.7.
9. SEE ROOF DECK SCHEDULE FOR REQUIRED DECK AND ATTACHMENTS.
10. SEE SHEET S2.2 FOR OPENINGS IN ROOF DECK. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
11. CONTRACTOR SHALL ERECT AND MAINTAIN ADEQUATE TEMPORARY BRACING UNTIL ALL ROOF FRAMING AND DECK ATTACHMENTS ARE COMPLETE.
12. CONCENTRATED LOADS FROM EQUIPMENT, PIPING, ETC., SHALL NOT BE HUNG FROM JOISTS EXCEPT AT PANEL POINTS AND AS APPROVED BY THE ENGINEER.
13. JOIST BRIDGING DESIGN AND LOCATION BY JOIST MANUFACTURER.
14. ANY CONCENTRATED LOAD ON JOIST CHORDS (INCLUDING FRAMING ANGLES) NOT LOCATED WITHIN 6" OF A PANEL POINT REQUIRE (2) L 2" X 2" X 1/4" FROM THE POINT LOAD TO THE NEAREST OPPOSITE CHORD PANEL POINT (CONTRACTOR SUPPLIED AND INSTALLED).
15. ANY ROOF SUPPORTED PIPING 6" OR LARGER RUNNING PARALLEL TO JOIST SHALL BE SUPPORTED BY TWO OR MORE JOISTS.
16. ALL JOISTS SHALL HAVE 5" END BEARING DEPTH, UNLESS NOTED OTHERWISE.
17. SEE MASONRY WALL SCHEDULE (MW-10B) FOR WALL REINFORCEMENT AT PARAPETS GREATER THAN 6'-0" ABOVE DECK BEARING ELEVATION.
18. SNOW DRIFT LOCATION.

ROOF FRAMING PLAN
SCALE : 3/32" = 1'-0"

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HARMONS SPANISH FORK

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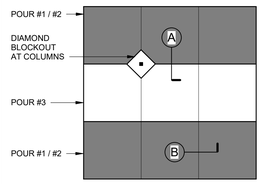
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DRAWN BY:	Z. THORNER
DESIGNED BY:	A. BOWN
DWG TYPE:	
PROJECT PHASE:	BID SET

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ROOF FRAMING PLAN

S1.3

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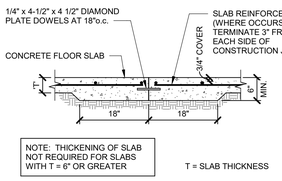


NOTES:
1. JOINTS SHALL OCCUR AT MAIN COLUMN / GRID LINES W/ 10'-0" MAX. SPACING BETWEEN JOINTS AT 4" SLABS; 12'-0" MAX. AT 5" SLABS, AND 15'-0" MAX. AT 6" SLABS.
2. SEE PLAN FOR SLAB THICKNESS 'T' AND REINFORCING SIZE AND SPACING.

TYPICAL CONCRETE SLAB JOINTS

SCALE : NONE

1 / S2.1



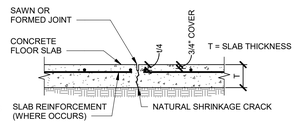
NOTE: THICKENING OF SLAB NOT REQUIRED FOR SLABS WITH T = 6" OR GREATER

T = SLAB THICKNESS

CONSTRUCTION JOINT

SCALE : NONE

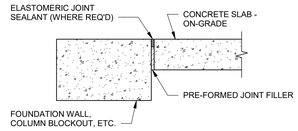
A



CONTROL JOINT

SCALE : NONE

B



TYPICAL ISOLATION JOINT

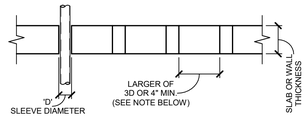
SCALE : NONE

C

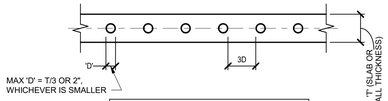
TYPICAL PIPING/CONDUIT AT SLAB OR WALL

SCALE : NONE

2 / S2.1



PIPING / CONDUIT THRU SLAB OR WALL



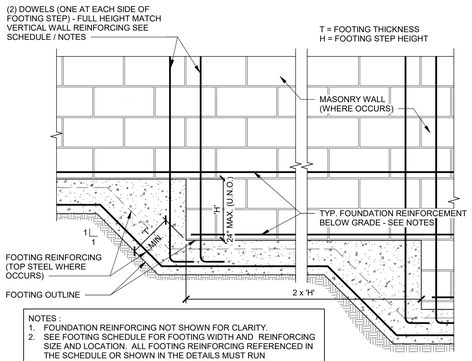
NOTE: WHERE CLEAR DISTANCE BETWEEN SLEEVES IS IMPOSSIBLE, THIS AREA SHALL BE TREATED AS AN OPENING PER REINFORCING AT STRUCTURAL CONCRETE SLAB OPENINGS, SEE TYPICAL DETAIL.

PIPING / CONDUIT IN SLAB OR WALL

TYPICAL STEPPED FOOTING W/ CMU WALL

SCALE : NONE

3 / S2.1

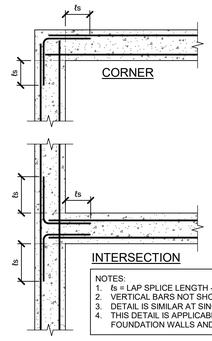


NOTES :
1. FOUNDATION REINFORCING NOT SHOWN FOR CLARITY.
2. SEE FOOTING SCHEDULE FOR FOOTING WIDTH AND REINFORCING SIZE AND LOCATION. ALL FOOTING REINFORCING REFERENCED IN THE SCHEDULE OR SHOWN IN THE DETAILS MUST RUN CONTINUOUS THROUGH THE FOOTING STEP.

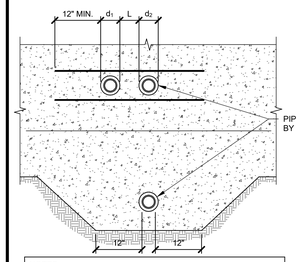
TYPICAL HORIZONTAL REINFORCING DETAIL

SCALE : NONE

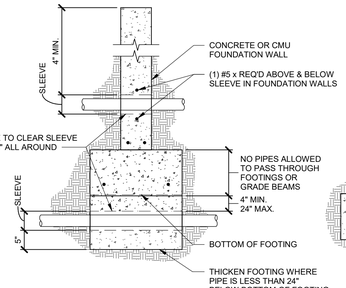
4 / S2.1



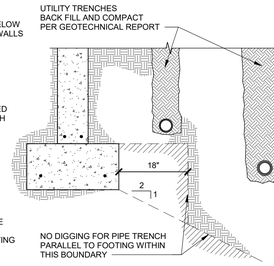
NOTES:
1. ts = LAP SPLICE LENGTH - SEE REBAR LAP SCHEDULE.
2. VERTICAL BARS NOT SHOWN.
3. DETAIL IS SIMILAR AT SINGLE CURTAIN OF REINFORCING.
4. THIS DETAIL IS APPLICABLE AT ALL FOOTINGS, FOUNDATION WALLS AND MASONRY WALLS.



NOTES :
1. TYPICAL FOUNDATION WALL REINFORCING NOT SHOWN FOR CLARITY.
2. FOR OPENINGS LARGER THAN 12" IN ANY DIRECTION. SEE STRUCTURAL NOTE E-7.
3. DETAIL IS SIMILAR AT MASONRY FOUNDATION WALLS.
4. DISTANCE 'L' SHALL BE THE GREATER OF $(d_1 + d_2)/2$ OR 4".



PIPE CROSSING FOOTING / FOUNDATION WALL



PIPE PARALLEL TO FOOTING

ALLOWABLE PIPING LOCATIONS @ FOOTING DETAIL

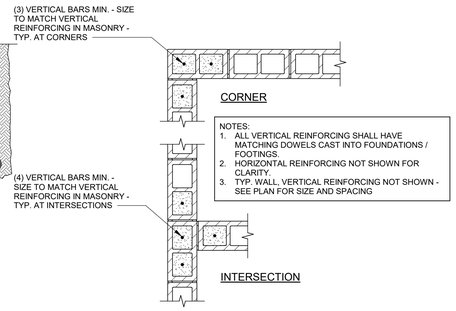
SCALE : NONE

5 / S2.1

TYPICAL VERTICAL REINFORCING DETAIL

SCALE : NONE

6 / S2.1

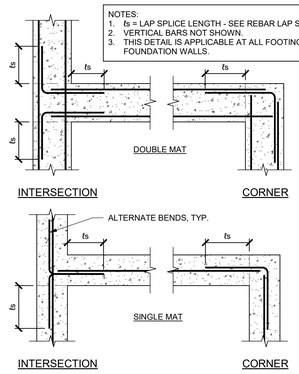


NOTES:
1. ALL VERTICAL REINFORCING SHALL HAVE MATCHING DOWELS CAST INTO FOUNDATIONS / FOOTINGS.
2. HORIZONTAL REINFORCING NOT SHOWN FOR CLARITY.
3. TYP. WALL VERTICAL REINFORCING NOT SHOWN - SEE PLAN FOR SIZE AND SPACING

TYPICAL REINFORCING @ INTERSECTIONS IN CONCRETE DETAIL

SCALE : NONE

7 / S2.1

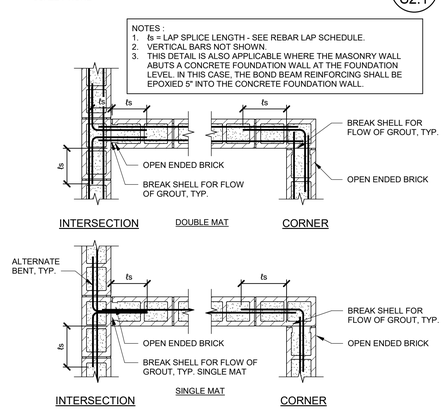


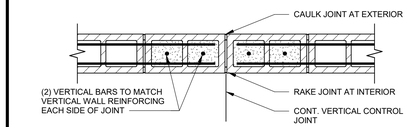
NOTES :
1. ts = LAP SPLICE LENGTH - SEE REBAR LAP SCHEDULE.
2. VERTICAL BARS NOT SHOWN.
3. THIS DETAIL IS ALSO APPLICABLE WHERE THE MASONRY WALL ABUTS A CONCRETE FOUNDATION WALL AT THE FOUNDATION LEVEL. IN THIS CASE, THE BOND BEAM REINFORCING SHALL BE EPOXIED 5" INTO THE CONCRETE FOUNDATION WALL.

TYP. REINF. AT INTERSECTIONS IN MASONRY DETAIL

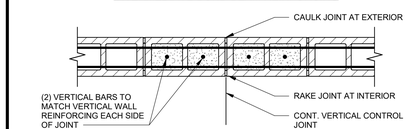
SCALE : NONE

8 / S2.1





INTERMEDIATE BOND BEAM REINFORCING

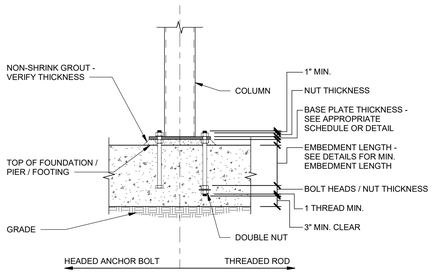


FLOOR, ROOF, AND TOP OF WALL BOND BEAM REINFORCING

TYP. JOINT REINFORCING DETAIL

SCALE : NONE

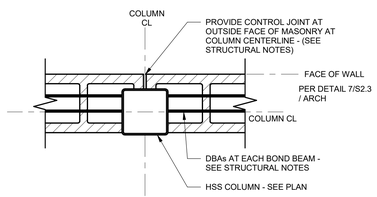
9 / S2.1



TYPICAL ANCHOR BOLT EMBEDMENT DETAIL

SCALE : NONE

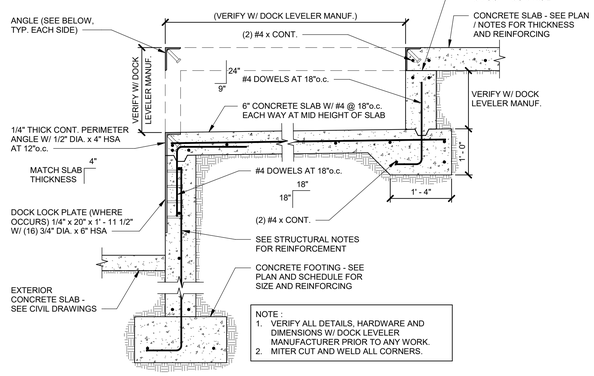
10 / S2.1



TYP. HSS COLUMN EMBEDDED IN CMU WALL

SCALE : NONE

11 / S2.1

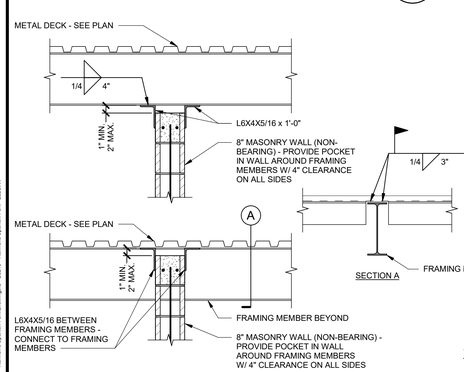


NOTE :
1. VERIFY ALL DETAILS, HARDWARE AND DIMENSIONS W/ DOCK LEVELER MANUFACTURER PRIOR TO ANY WORK.
2. MITER CUT AND WELD ALL CORNERS.

DOCK LEVELER DETAIL

SCALE : NONE

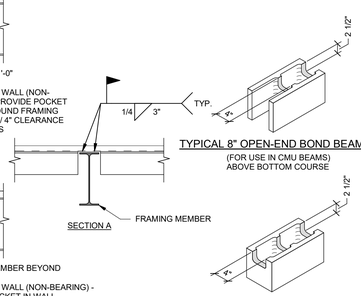
12 / S2.1



TYPICAL RESTRAINT OF NON-BEARING MASONRY WALLS

SCALE : NONE

13 / S2.1

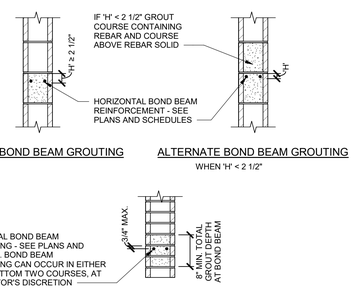


NOTES:
1. ALL 8" OPEN-END AND BOND-BEAM CMU UNITS SHALL MEET THE MINIMUM DIMENSIONS SHOWN.
2. STANDARD 8" CMU UNITS MAY BE CUT, CHIPPED, OR MODIFIED TO CREATE OPEN-END OR BOND BEAM UNITS, PROVIDED THE FINAL CONFIGURATION MEETS THE MINIMUM DIMENSIONS SHOWN.

TYPICAL CMU BLOCK

SCALE : NONE

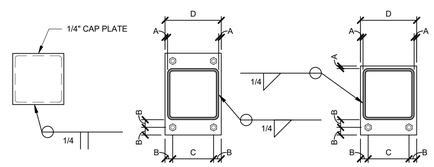
14 / S2.1



TYP. BOND BEAM GROUTING

SCALE : NONE

15 / S2.1



A = 1/2" MINIMUM

B = 1 1/2"

C = GAGE OF CONNECTED MEMBER

D = COLUMN WIDTH + 1" BEAM OR GIRDER WIDTH + 1" OR BOLT GAGE + 3" WHICHEVER IS GREATER

NOTE : ALL STEEL COLUMNS SHALL HAVE A COLUMN CAP PLATE SCP-1, UNO

TYPICAL COLUMN CAP PLATE

SCALE : NONE

17 / S2.1

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arwengineers.com

HARMONS SPANISH FORK

2643 EAST 400 NORTH
SPANISH FORK, UTAH

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 14, 2026
ARW PROJECT NO: 26210
DESIGN SEQUENCE PROJECT NO: 1431.01
CAD DWG FILE NO:
DRAWN BY: Z. THORNER
DESIGNED BY: A. BOWN
DWG TYPE:
PROJECT PHASE: BID SET

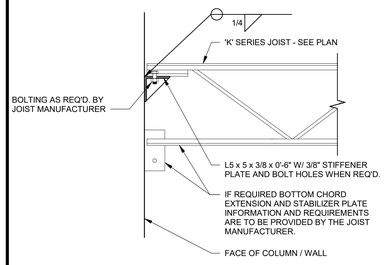
SHEET TITLE

TYPICAL DETAILS

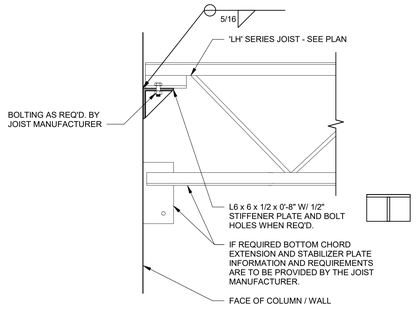
S2.1

9/14/2026 3:24:48 PM
Y:\Projects 2026\26210 - Harmon's Spanish Fork\Drawings\S - 26210 - Harmons Spanish Fork - 2026.rvt

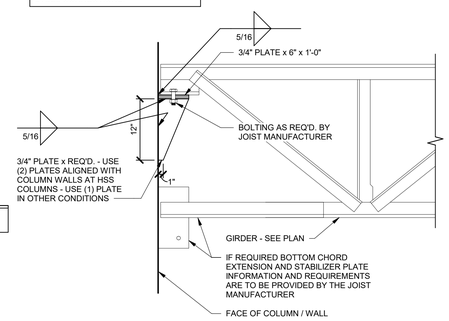
NOTE: WELD SHALL BE FIELD WELDED AT MASONRY AND CONCRETE EMBEDS AND SHOP WELDED AT STEEL TO STEEL CONNECTIONS.



NOTE: WELD SHALL BE FIELD WELDED AT MASONRY AND CONCRETE EMBEDS AND SHOP WELDED AT STEEL TO STEEL CONNECTIONS.



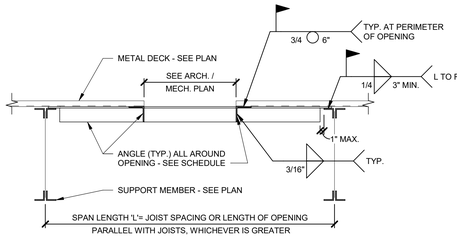
NOTE: WELD SHALL BE FIELD WELDED AT MASONRY AND CONCRETE EMBEDS AND SHOP WELDED AT STEEL TO STEEL CONNECTIONS.



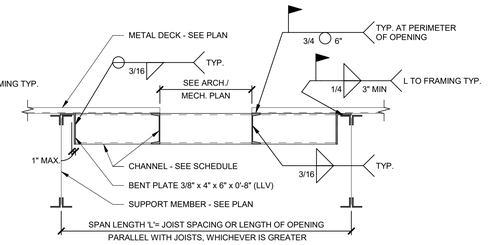
TYP. 'K'-'LH'-'GIRDER' SERIES JOIST BEARING SEAT (U.N.O.)

SCALE : NONE

1 S2.2



SPAN	ANGLE SIZE
L ≤ 6'-0"	L4 x 4 x 1/4
L ≤ 8'-0"	L4 x 4 x 3/8
L ≤ 10'-0"	L5 x 5 x 3/8



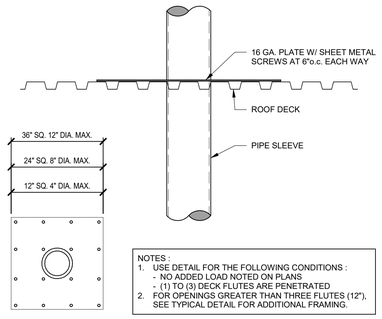
SPAN	CHANNEL
L ≤ 8'-0"	C6 x 8.2
L ≤ 10'-0"	C8 x 11.5

NOTES :
1. THIS DETAIL APPLIES TO ROOF OPENINGS LARGER THAN 18" IN EITHER DIRECTION.
2. MECHANICAL CURB ATTACHMENT TO STRUCTURE IS BY OTHERS.
3. THIS DETAIL OCCURS UNDER THE CURB AND AROUND THE OPENING. WHERE NO OPENING OCCURS, FRAME OCCURS BELOW CURB ONLY.
4. WHERE FRAME CONNECTS TO JOISTS MORE THAN 6" FROM A PANEL POINT, SEE DETAIL 8/S2.2 FOR REQUIRED JOIST UPGRADE INFORMATION.
5. UNLESS NOTED OTHERWISE, USE THE ANGLE FRAMES WHERE JOIST SPACING IS LESS THAN OR EQUAL TO 10'-0" AND EQUIPMENT WEIGHS 1,000 POUNDS OR LESS. WHERE EQUIPMENT WEIGHT IS GREATER THAN 1,000 POUNDS, USE CHANNEL FRAMES.

TYPICAL FRAMING @ ROOF OPENINGS & ROOFTOP EQUIPMENT DETAIL

SCALE : NONE

2 S2.2

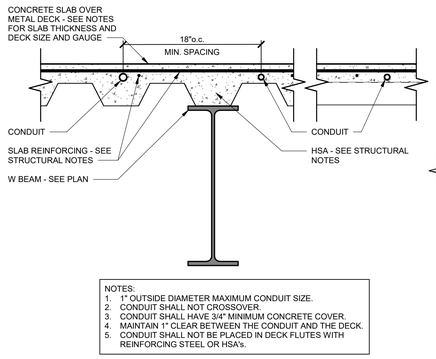


NOTES :
1. USE DETAIL FOR THE FOLLOWING CONDITIONS :
   - NO ADDED LOAD NOTED ON PLANS
   - (1) TO (3) DECK FLUTES ARE PENETRATED
2. FOR OPENINGS GREATER THAN THREE FLUTES (12"), SEE TYPICAL DETAIL FOR ADDITIONAL FRAMING.

TYPICAL FRAMING @ SMALL ROOF OPENINGS DETAIL

SCALE : NONE

3 S2.2

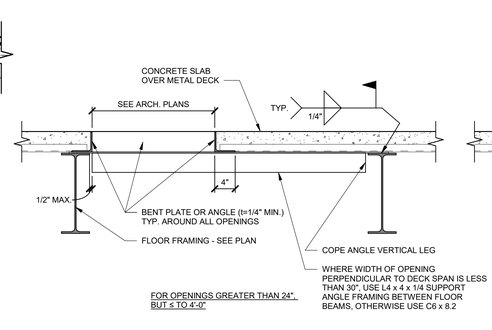


NOTES:
1. 1" OUTSIDE DIAMETER MAXIMUM CONDUIT SIZE.
2. CONDUIT SHALL NOT CROSSOVER.
3. CONDUIT SHALL HAVE 3/4" MINIMUM CONCRETE COVER.
4. MAINTAIN 1" CLEAR BETWEEN THE CONDUIT AND THE DECK.
5. CONDUIT SHALL NOT BE PLACED IN DECK FLUTES WITH REINFORCING STEEL OR HSA's.

CONDUIT PLACEMENT IN SLABS ON METAL DECK

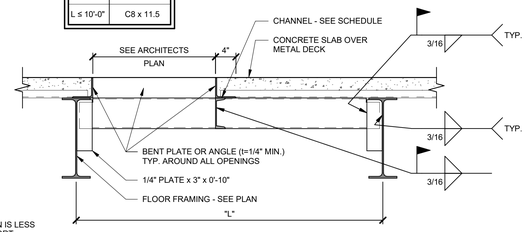
SCALE : NONE

4 S2.2



FOR OPENINGS GREATER THAN 24", BUT ≤ TO 4'-0"

"L"	CHANNEL
L ≤ 6'-0"	C6 x 8.2
L ≤ 10'-0"	C8 x 11.5

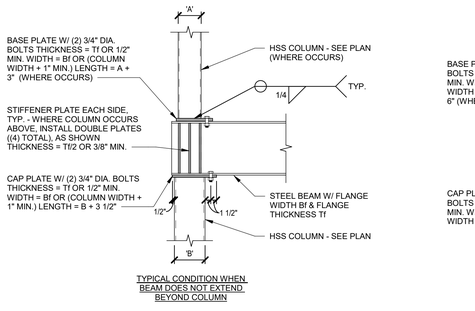


FOR OPENINGS PERPENDICULAR TO DECK SPAN GREATER THAN 4'-0" AND ≤ 8'-0"

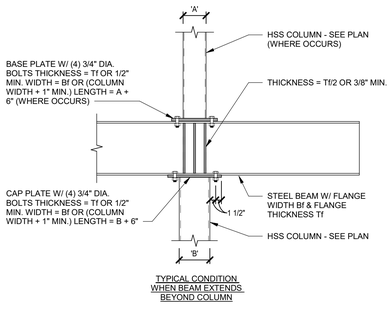
FLOOR OPENING DETAIL

SCALE : NONE

5 S2.2



TYPICAL CONDITION WHEN BEAM DOES NOT EXTEND BEYOND COLUMN

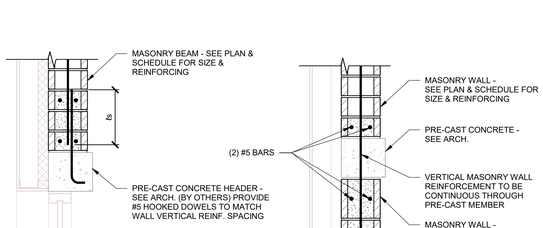


TYPICAL CONDITION WHEN BEAM EXTENDS BEYOND COLUMN

TYPICAL CAP PL. / BASE PL. @ FRAMING CONNECTIONS

SCALE : NONE

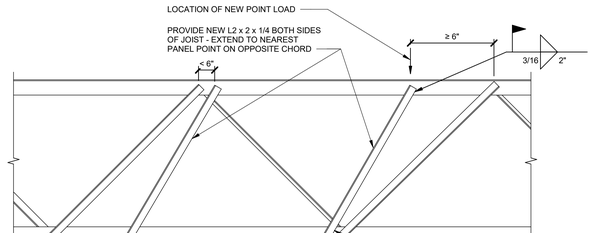
6 S2.2



DETAIL

SCALE : NONE

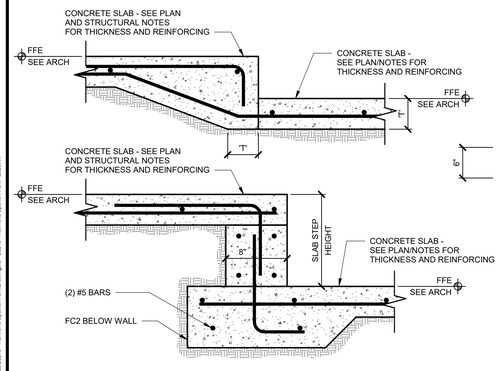
7 S2.2



TYPICAL JOIST UPGRADE DETAIL

SCALE : NONE

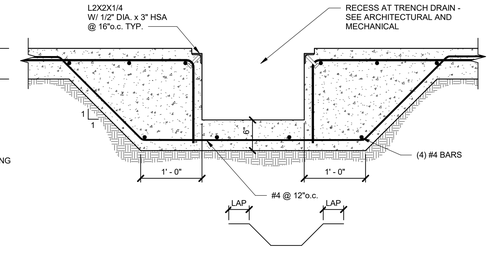
8 S2.2



TYPICAL RECESSED SLAB

SCALE : NONE

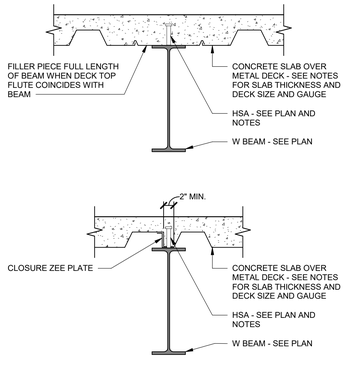
9 S2.2



DETAIL

SCALE : NONE

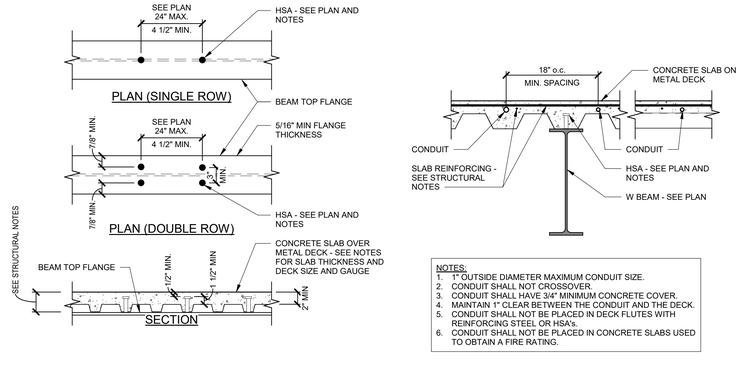
10 S2.2



COMPOSITE FLOOR DETAIL

SCALE : NONE

11 S2.2



NOTES:
1. 1" OUTSIDE DIAMETER MAXIMUM CONDUIT SIZE.
2. CONDUIT SHALL NOT CROSSOVER.
3. CONDUIT SHALL HAVE 3/4" MINIMUM CONCRETE COVER.
4. MAINTAIN 1" CLEAR BETWEEN THE CONDUIT AND THE DECK.
5. CONDUIT SHALL NOT BE PLACED IN DECK FLUTES WITH REINFORCING STEEL OR HSA's.
6. CONDUIT SHALL NOT BE PLACED IN CONCRETE SLABS USED TO OBTAIN A FIRE RATING.

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HARMONS SPANISH FORK

2643 EAST 400 NORTH
SPANISH FORK, UTAH

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 14, 2026
ARW PROJECT NO: 26210
DESIGN SEQUENCE PROJECT NO: 1431.01
CAD DWG FILE NO:
DRAWN BY: Z. THORNER
DESIGNED BY: A. BOWN
DWG TYPE:
PROJECT PHASE: BID SET

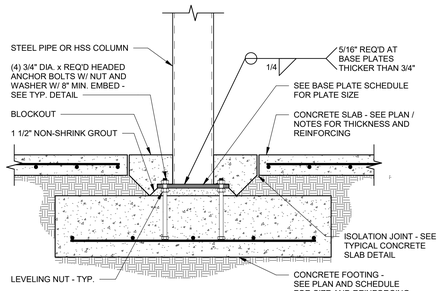
SHEET TITLE

TYPICAL DETAILS

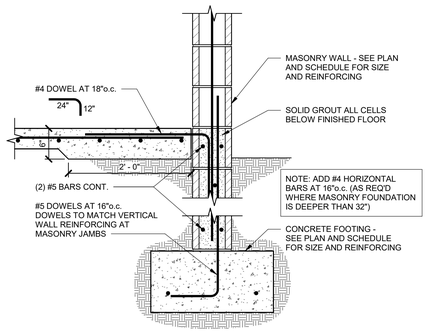
S2.2

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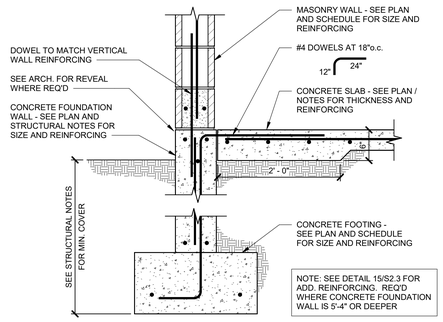
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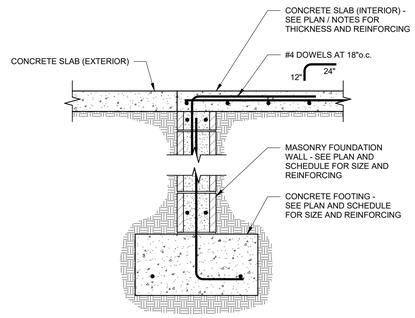
COLUMN TO SPOT FOOTING
1 / S2.3
SCALE : NONE



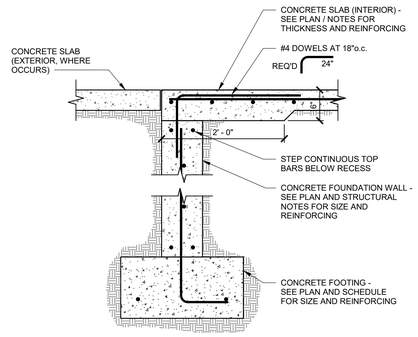
TYP. MASONRY FOUNDATION WALL
2 / S2.3
SCALE : NONE



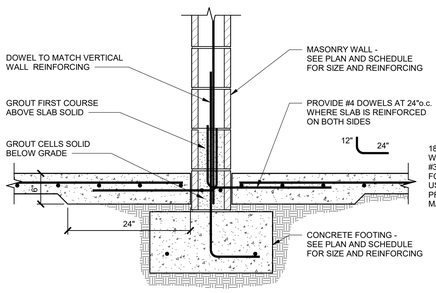
SECTION AT MASONRY WALL
3 / S2.3
SCALE : NONE



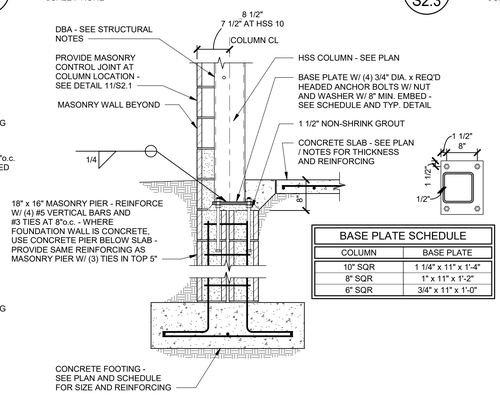
MASONRY FOUNDATION WALL @ DOOR OPENINGS
4 / S2.3
SCALE : NONE



CONCRETE FOUNDATION @ OPENING
5 / S2.3
SCALE : NONE

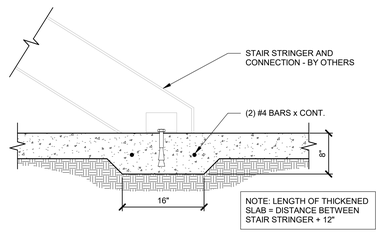


INTERIOR MASONRY WALL
6 / S2.3
SCALE : NONE

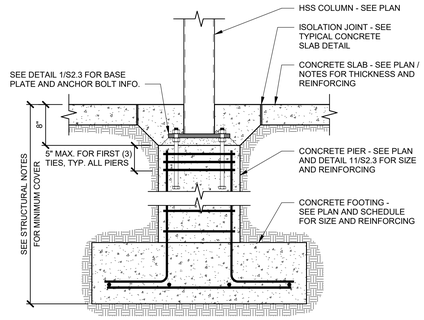


BASE PLATE SCHEDULE	
COLUMN	BASE PLATE
10" SQR	1 1/4" x 11" x 1'-4"
8" SQR	1" x 11" x 1'-2"
6" SQR	3/4" x 11" x 1'-0"

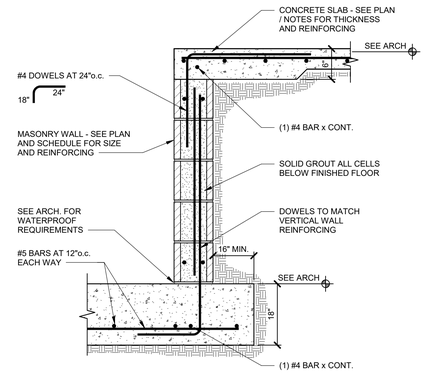
COLUMN @ EXTERIOR CMU PIER
7 / S2.3
SCALE : NONE



THICKENED SLAB @ STAIR
8 / S2.3
SCALE : NONE

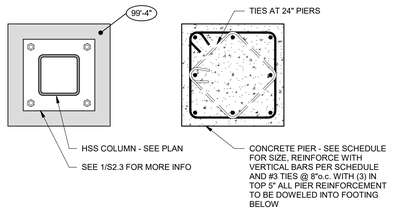


CONCRETE PIER
9 / S2.3
SCALE : NONE

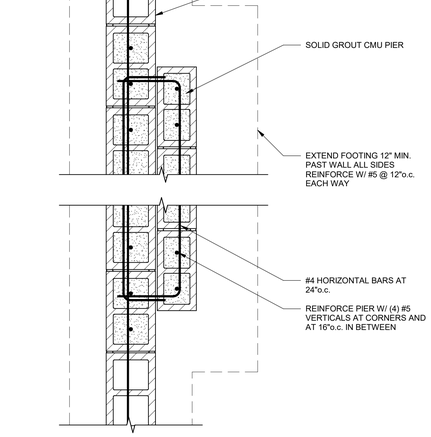


SECTION @ ELEVATOR PIT
10 / S2.3
SCALE : NONE

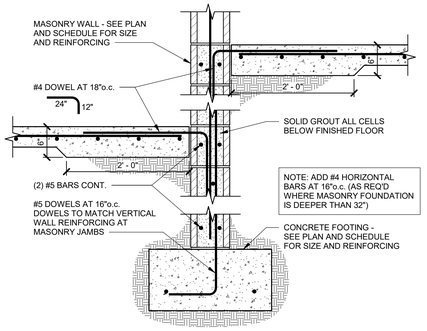
COLUMN SIZE	PIER SIZE	VERTICAL REINF.
6x6	18"x18"	(4) #6
8x8	20"x20"	(4) #6
10x10	24"x24"	(8) #5



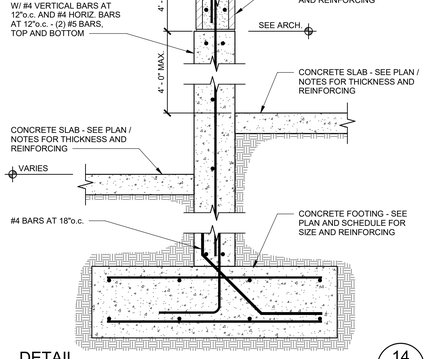
DETAIL
11 / S2.3
SCALE : NONE



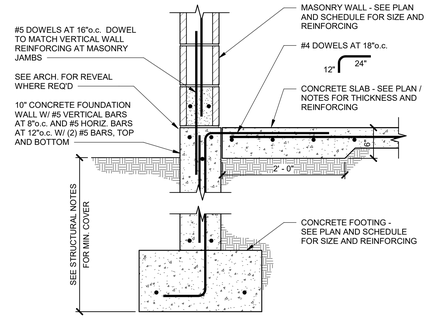
COLUMN @ EXTERIOR CMU PIER
7 / S2.3
SCALE : NONE



THICKENED SLAB @ STAIR
8 / S2.3
SCALE : NONE

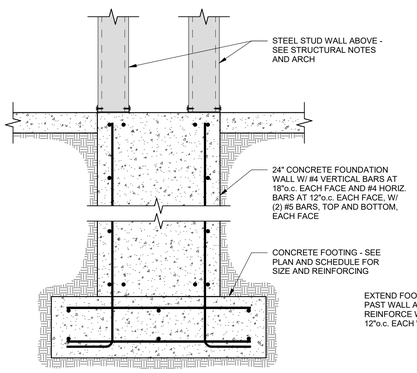


DETAIL
13 / S2.3
SCALE : NONE

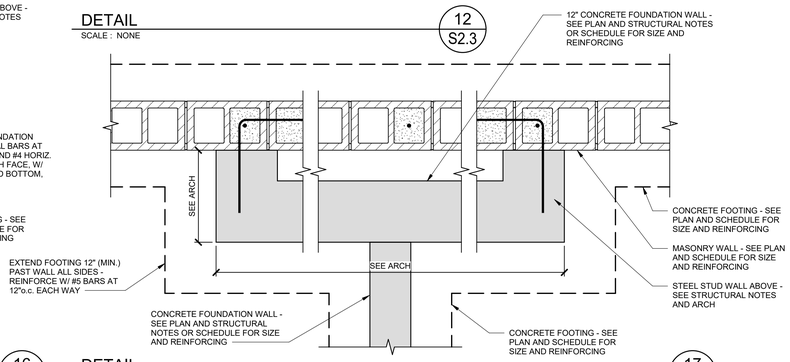


DETAIL
14 / S2.3
SCALE : NONE

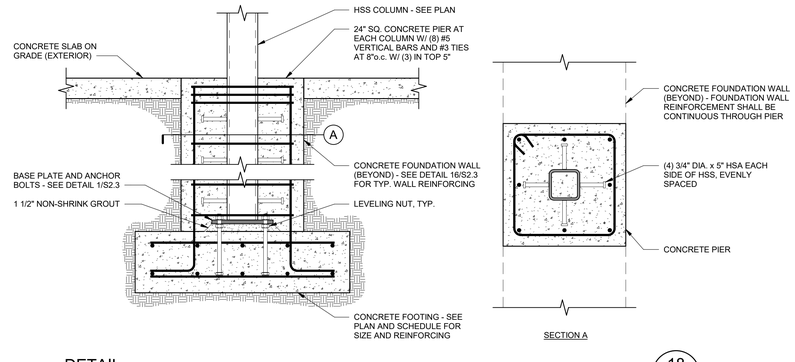
SECTION AT MASONRY WALL
15 / S2.3
SCALE : NONE



DETAIL
16 / S2.3
SCALE : NONE



DETAIL
12 / S2.3
SCALE : NONE



DETAIL
18 / S2.3
SCALE : NONE

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HARMONS SPANISH FORK

2643 EAST 400 NORTH
SPANISH FORK, UTAH

MARK	DATE	DESCRIPTION

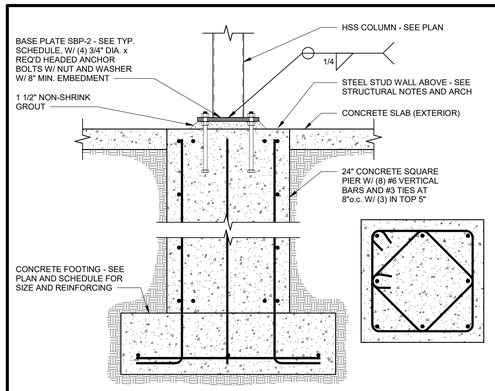
DATE: SEPTEMBER 14, 2026
ARW PROJECT NO: 26210
DESIGN SEQUENCE PROJECT NO: 1431.01
CAD DWG FILE NO:
DRAWN BY: Z. THORNER
DESIGNED BY: A. BOWN
DWG TYPE:
PROJECT PHASE: BID SET

SHEET TITLE

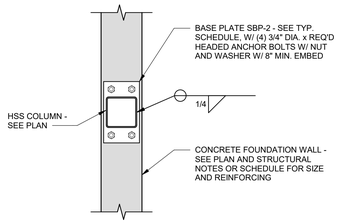
FOUNDATION DETAILS

S2.3

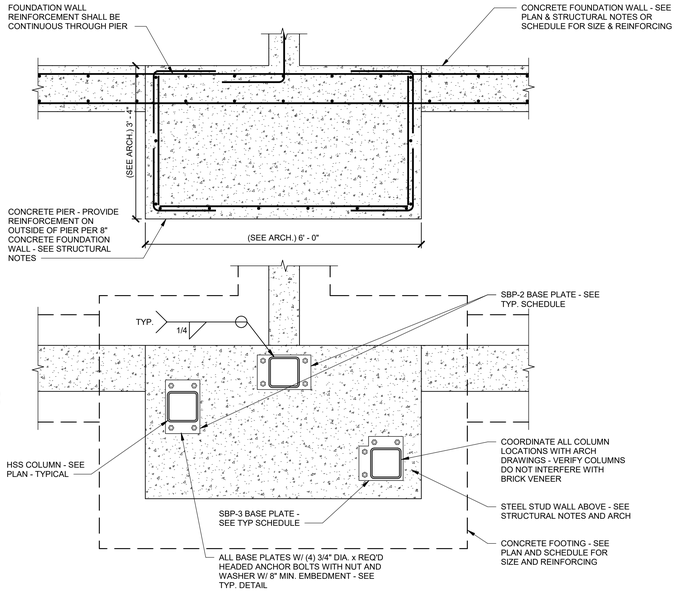
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Y:\Projects 2026\26210 - Harmon's Spanish Fork\Drawings\S - 26210 - Harmons Spanish Fork - 2026.rvt



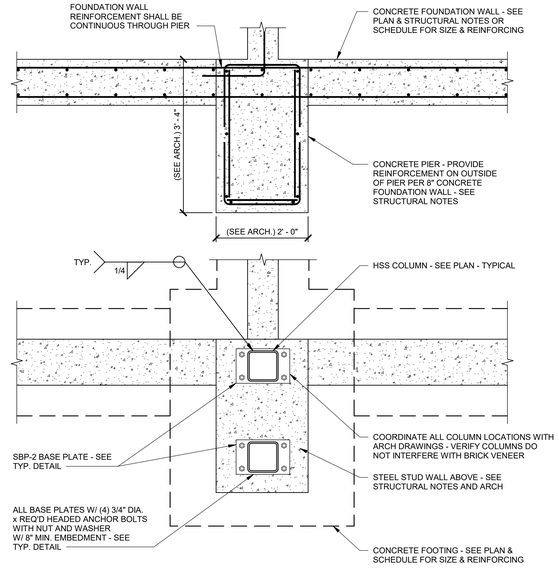
DETAIL 1 S2.4
SCALE : NONE



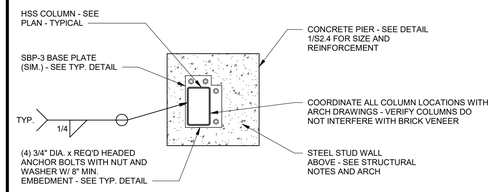
DETAIL 2 S2.4
SCALE : NONE



DETAIL 3 S2.4
SCALE : NONE



DETAIL 4 S2.4
SCALE : NONE



DETAIL 5 S2.4
SCALE : NONE

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HARMONS SPANISH FORK

2643 EAST 400 NORTH
SPANISH FORK, UTAH

MARK	DATE	DESCRIPTION

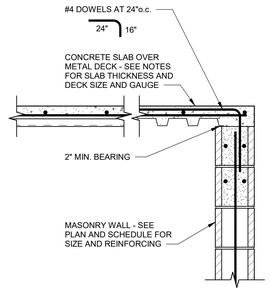
DATE:	SEPTEMBER 14, 2026
ARW PROJECT NO:	26210
DESIGN SEQUENCE PROJECT NO:	1431.01
CAD DWG FILE NO:	
DRAWN BY:	Z. Thorner
DESIGNED BY:	A. Bown
DWG TYPE:	
PROJECT PHASE:	BID SET

SHEET TITLE

FOUNDATION DETAILS

S2.4

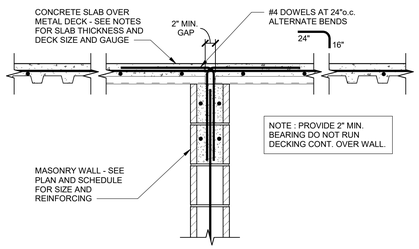
9/14/2026 3:24:49 PM
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DECK ON MASONRY

SCALE : NONE

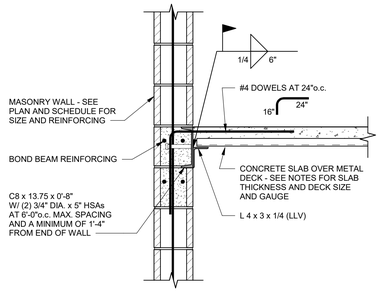
1 / S2.5



DECK ACROSS MASONRY

SCALE : NONE

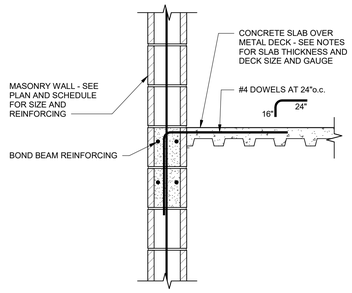
2 / S2.5



CONCRETE DECK INTO MASONRY

SCALE : NONE

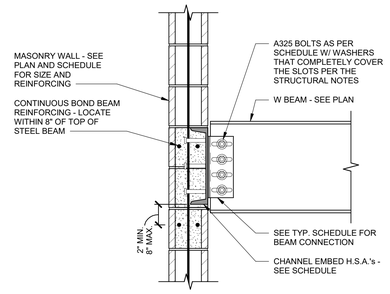
3 / S2.5



CONCRETE DECK INTO MASONRY

SCALE : NONE

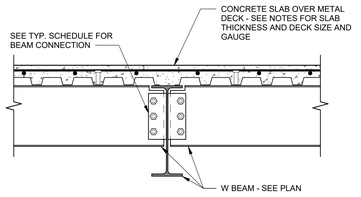
4 / S2.5



BEAM INTO CMU

SCALE : NONE

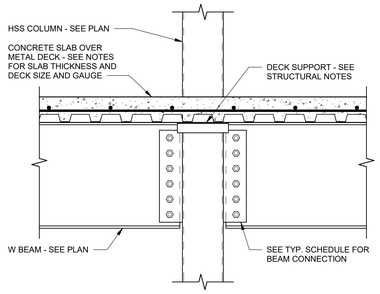
5 / S2.5



BEAMS INTO GIRDER

SCALE : NONE

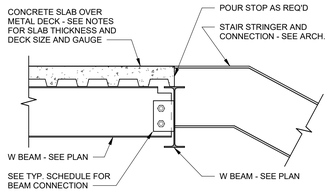
6 / S2.5



BEAM INTO COLUMN

SCALE : NONE

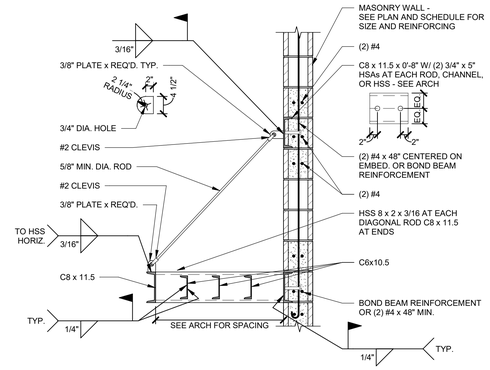
7 / S2.5



STAIR STRINGER TO FLOOR FRAMING

SCALE : NONE

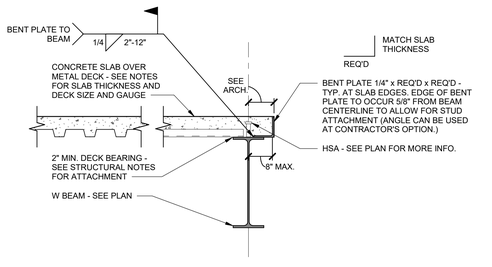
8 / S2.5



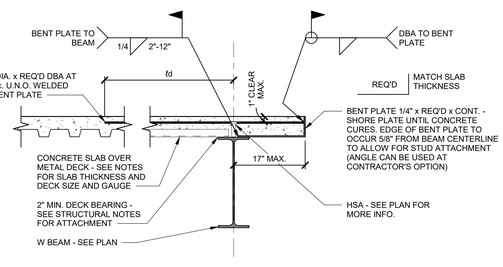
CANOPY DETAIL

SCALE : NONE

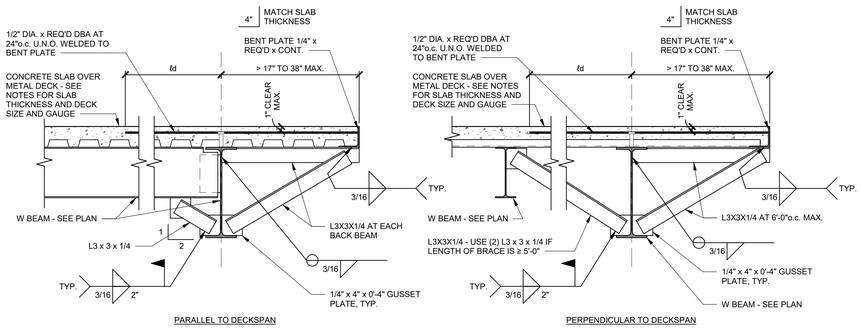
9 / S2.5



FOR SLAB OVERHANGS ≤ 8"



FOR SLAB OVERHANGS GREATER THAN 8" ≤ 17"

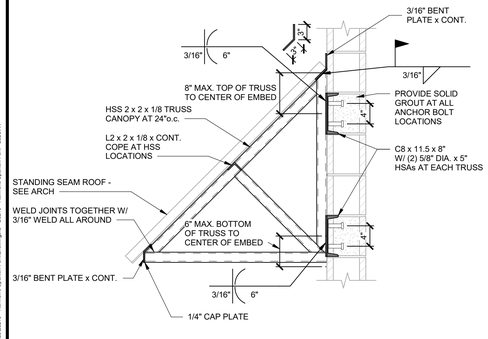


FOR SLAB OVERHANGS GREATER THAN 17" ≤ 38"

TYPICAL SLAB EDGE DETAIL

SCALE : NONE

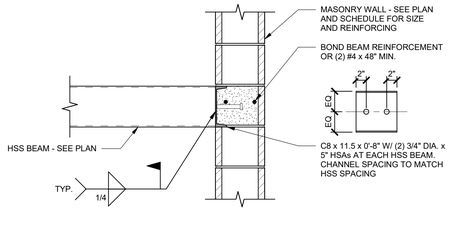
11 / S2.5



DETAIL

SCALE : NONE

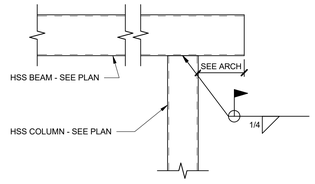
12 / S2.5



DETAIL

SCALE : NONE

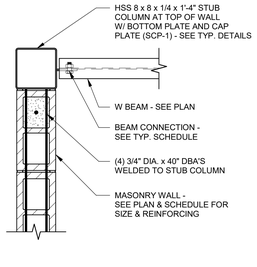
13 / S2.5



DETAIL

SCALE : NONE

14 / S2.5



DETAIL

SCALE : NONE

15 / S2.5

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HARMONS SPANISH FORK

2643 EAST 400 NORTH
SPANISH FORK, UTAH

MARK	DATE	DESCRIPTION

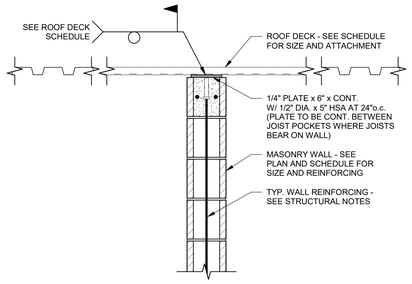
DATE:	SEPTEMBER 14, 2026
ARW PROJECT NO:	26210
DESIGN SEQUENCE PROJECT NO:	1431.01
CAD DWG FILE NO:	
DRAWN BY:	Z. THORNER
DESIGNED BY:	A. BOWN
DWG TYPE:	
PROJECT PHASE:	BID SET

SHEET TITLE

FRAMING DETAILS

S2.5

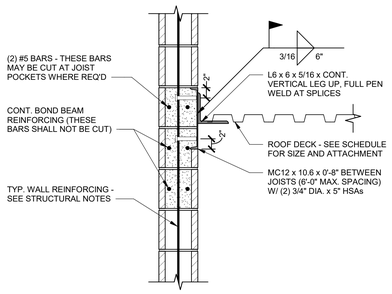
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Y:\Projects 2026\26210 - Harmon's Spanish Fork\Drawings\S - 26210 - Harmons Spanish Fork - 2026.rvt



DECK ACROSS MASONRY

SCALE : NONE

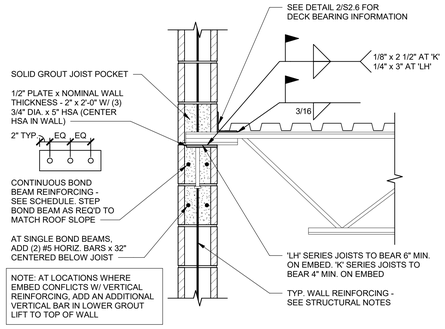
1 S2.6



DECK TO MASONRY

SCALE : NONE

2 S2.6

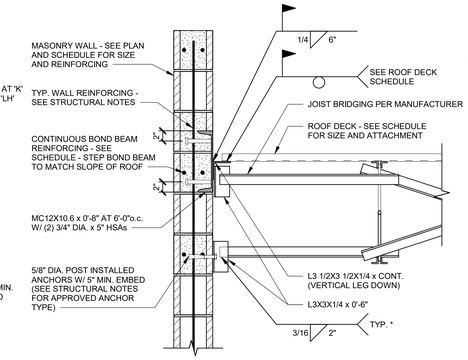


NOTE: AT LOCATIONS WHERE EMBED CONFLICTS W/ VERTICAL REINFORCING, ADD AN ADDITIONAL VERTICAL BAR IN LOWER GROUT LIFT TO TOP OF WALL

JOIST INTO MASONRY

SCALE : NONE

3 S2.6

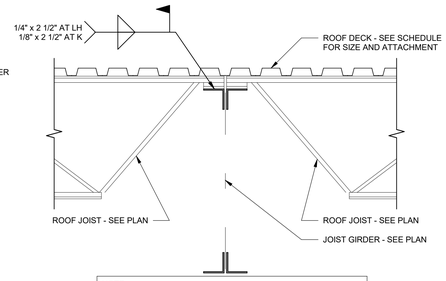


NOTE: * = BRIDGING CONNECTIONS MAY BE BOLTED OR WELDED AS PER JOIST MANUFACTURERS RECOMMENDATIONS.

JOIST BRIDGING INTO MASONRY

SCALE : NONE

4 S2.6

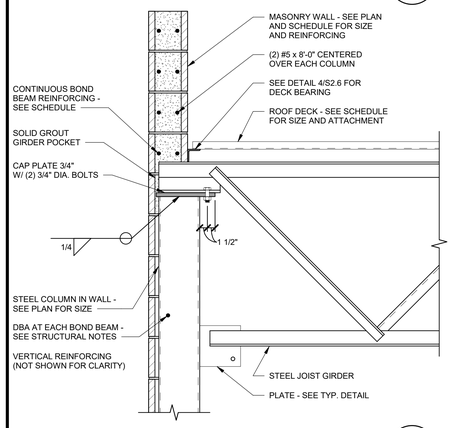


NOTE :
1. GIRDER BOTTOM CHORD BRACE SIZES AND LOCATIONS ARE TO BE SUPPLIED BY JOIST MANUF.
2. AT JOIST SPANS 40' OR GREATER PROVIDE BOLTED CONNECTION AT JOIST TO GIRDER.

JOISTS ON JOIST

SCALE : NONE

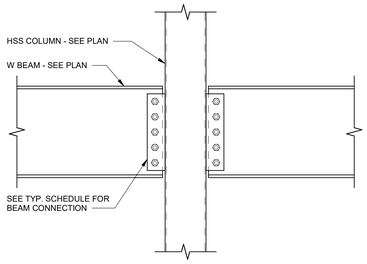
5 S2.6



DETAIL

SCALE : NONE

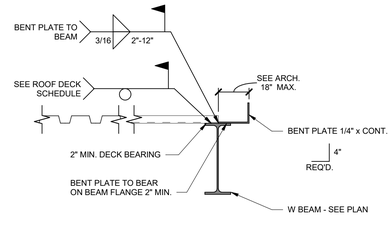
6 S2.6



BEAMS INTO HSS COLUMN

SCALE : NONE

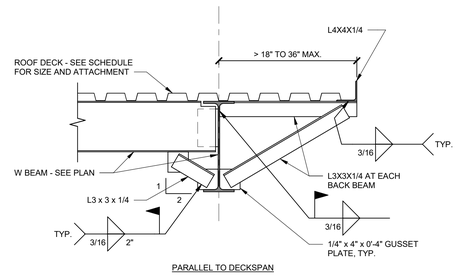
7 S2.6



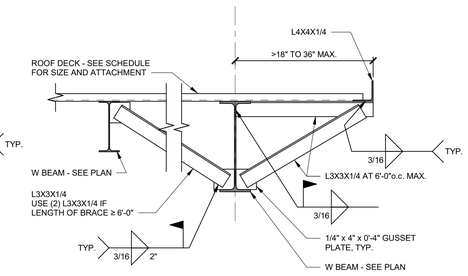
TYPICAL DECK EDGE ON BEAM

SCALE : NONE

8 S2.6

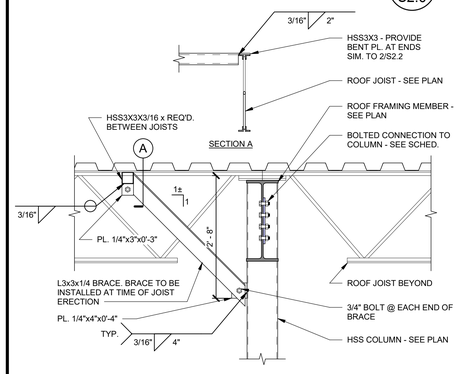


PARALLEL TO DECKSPAN



PERPENDICULAR TO DECKSPAN

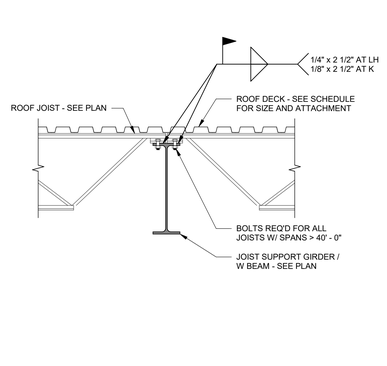
FOR ROOF DECK EDGE > 18" ≤ 36"



DETAIL

SCALE : NONE

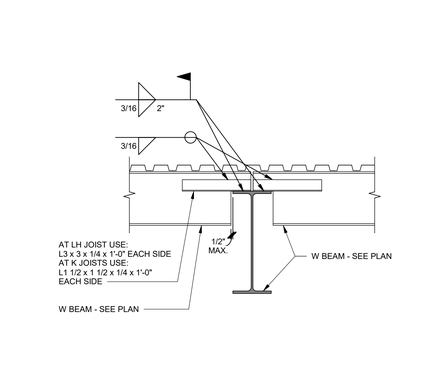
9 S2.6



JOISTS ON BEAM

SCALE : NONE

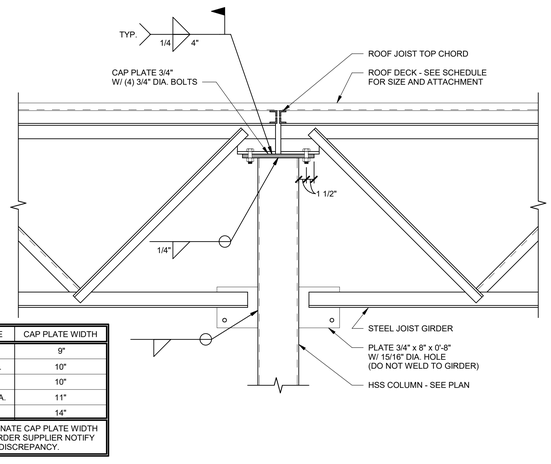
10 S2.6



DETAIL

SCALE : NONE

11 S2.6



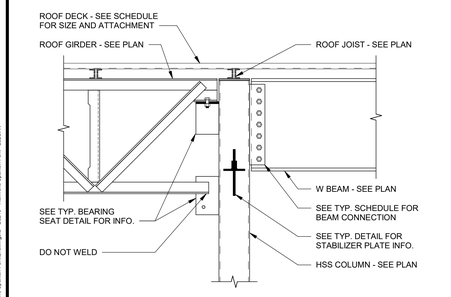
COLUMN SIZE	CAP PLATE WIDTH
6" SQ.	9"
7" SQ., 8" DIA.	10"
8" SQ.	10"
10" SQ., 10" DIA.	11"
12" SQ.	14"

NOTE: COORDINATE CAP PLATE WIDTH WITH JOIST GIRDER SUPPLIER NOTIFY ENGINEER OF DISCREPANCY.

DETAIL

SCALE : NONE

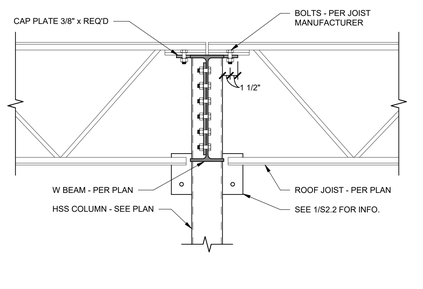
12 S2.6



DETAIL

SCALE : NONE

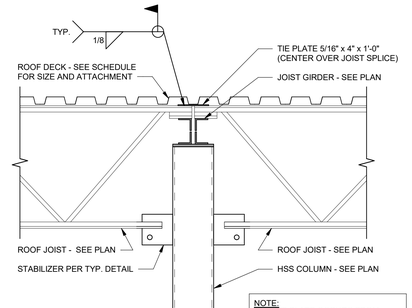
13 S2.6



BEAMS & JOIST ON BEAM

SCALE : NONE

14 S2.6

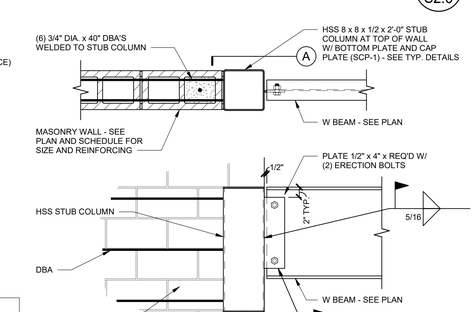


NOTE:
THIS TIE PLATE OCCURS FROM JOIST TO JOIST AT ALL MAIN BUILIDNG COLUMNS ON GRID LINES.

BEAM TO COLUMN ON SEAT CONNECTION

SCALE : NONE

15 S2.6



SECTION A

JOIST TO COLUMN

SCALE : NONE

16 S2.6

DETAIL

SCALE : NONE

17 S2.6

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HARMONS SPANISH FORK

2643 EAST 400 NORTH
SPANISH FORK, UTAH

MARK	DATE	DESCRIPTION

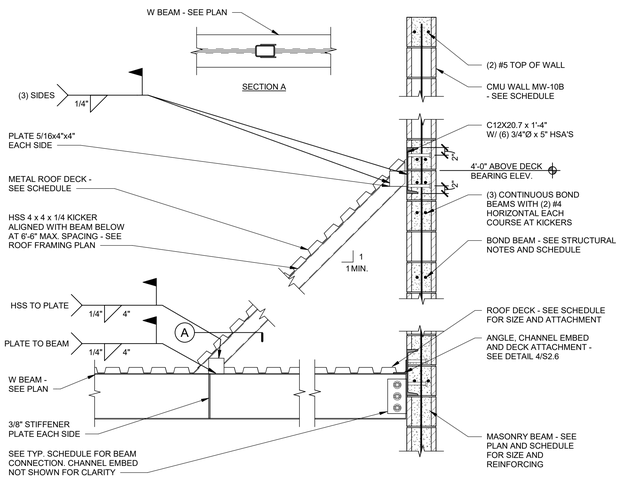
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DRAWN BY:	Z. THORNER
DESIGNED BY:	A. BOWN
DWG TYPE:	
PROJECT PHASE:	BID SET

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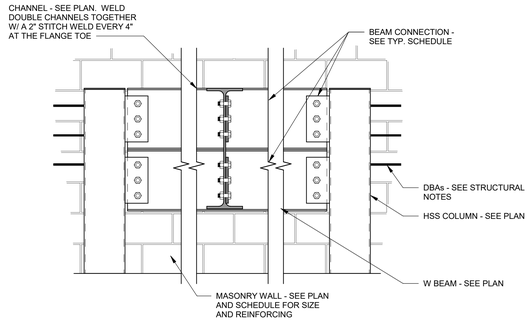
ROOF FRAMING DETAILS

S2.6

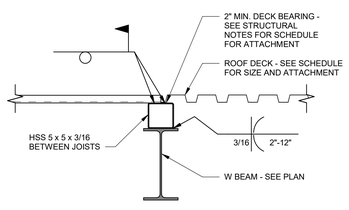
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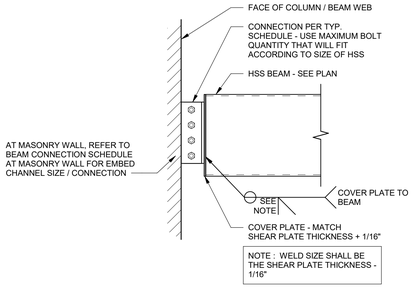
DETAIL — SCALE : NONE — 1 / S2.7



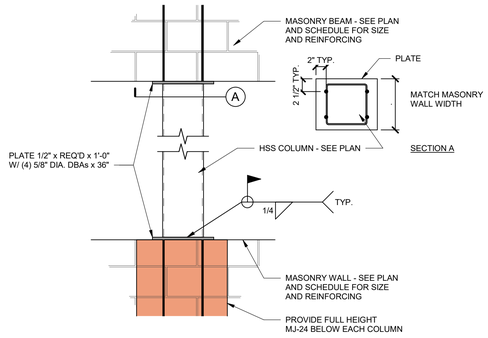
DETAIL — SCALE : NONE — A / S2.7



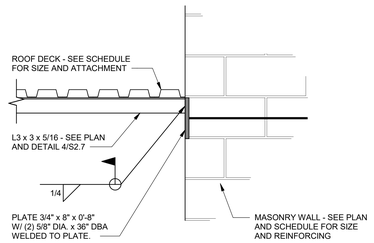
DETAIL — SCALE : NONE — 7 / S2.7



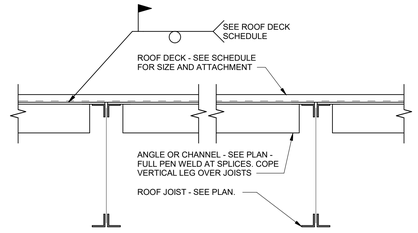
TYPICAL BEAM CONNECTIONS DETAIL — SCALE : NONE — 8 / S2.7



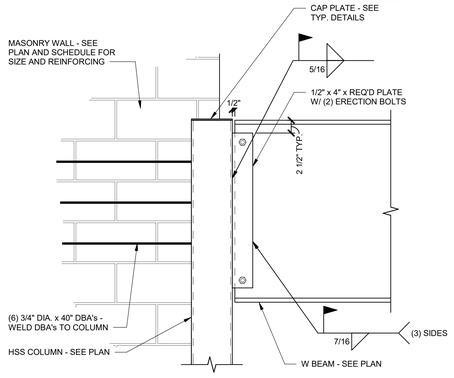
DETAIL — SCALE : NONE — 2 / S2.7



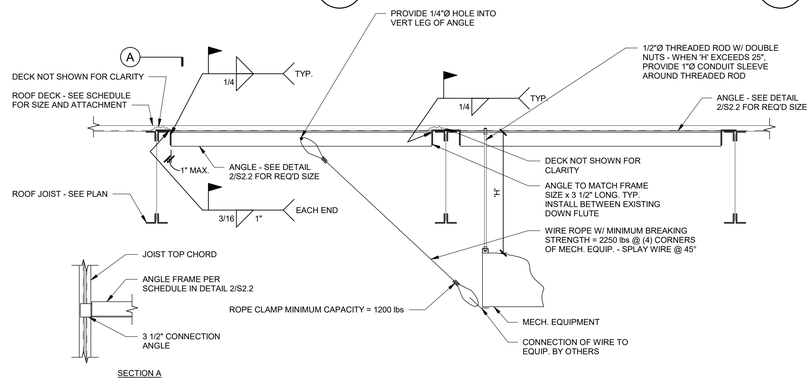
DETAIL — SCALE : NONE — 3 / S2.7



DETAIL — SCALE : NONE — 4 / S2.7



DETAIL — SCALE : NONE — 5 / S2.7



TYPICAL MECHANICAL HOOD/EQUIPMENT SUPPORT — SCALE : NONE — 6 / S2.7

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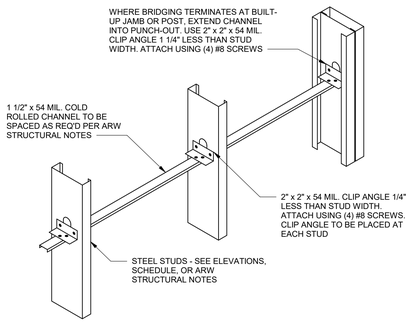
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ROOF FRAMING DETAILS

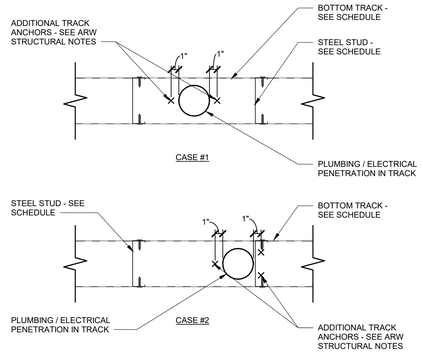
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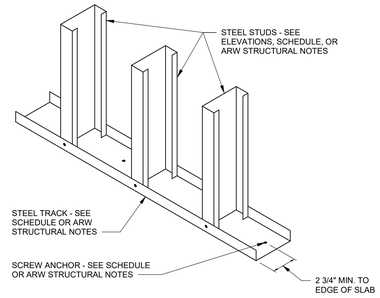
TYP. LATERAL BRACING / BRIDGING — 1 / S2.8

SCALE : NONE



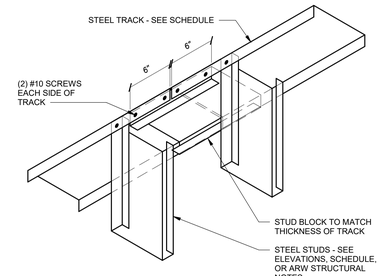
TYPICAL BOTTOM TRACK PENETRATION DETAIL — 2 / S2.8

SCALE : NONE



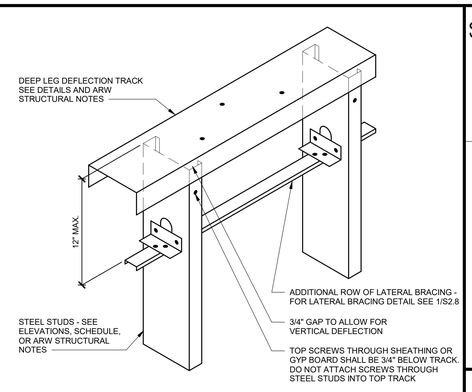
DETAIL — 3 / S2.8

SCALE : NONE



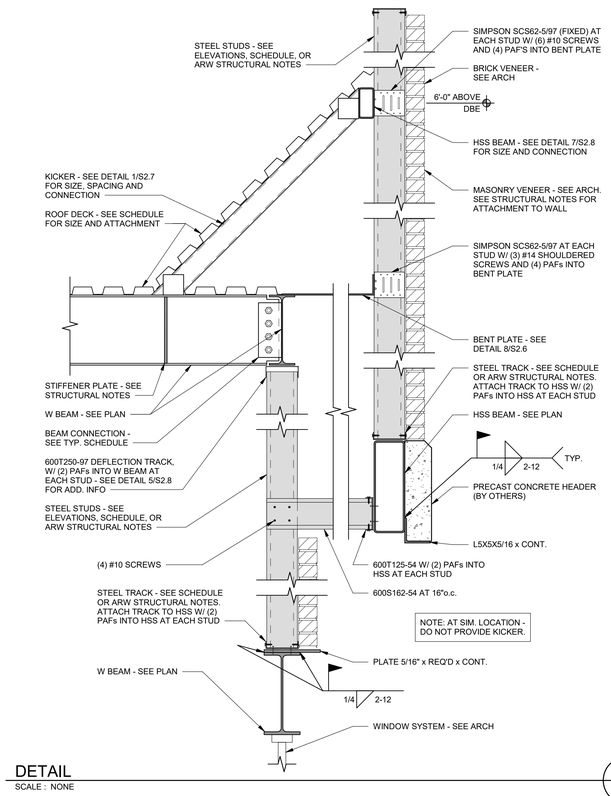
TYP. TRACK SPLICE DETAIL — 4 / S2.8

SCALE : NONE



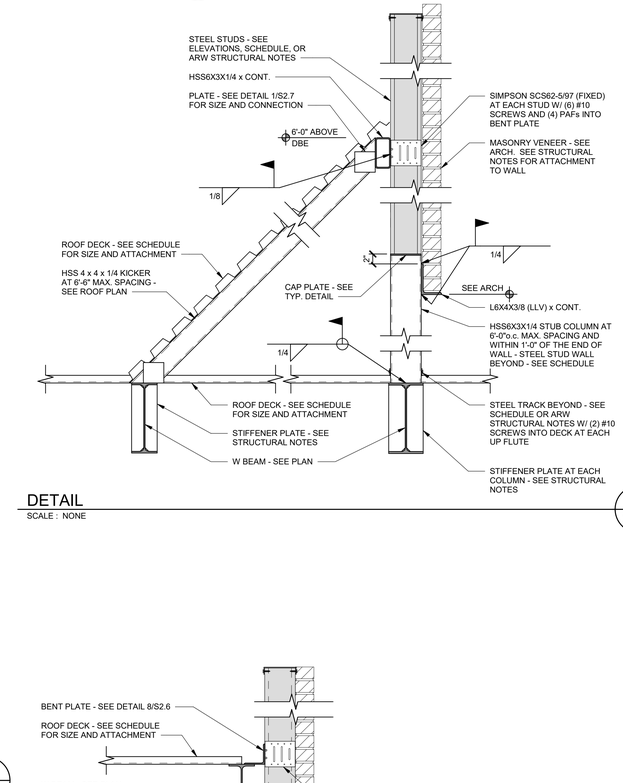
TYPICAL DEFLECTION TRACK — 5 / S2.8

SCALE : NONE



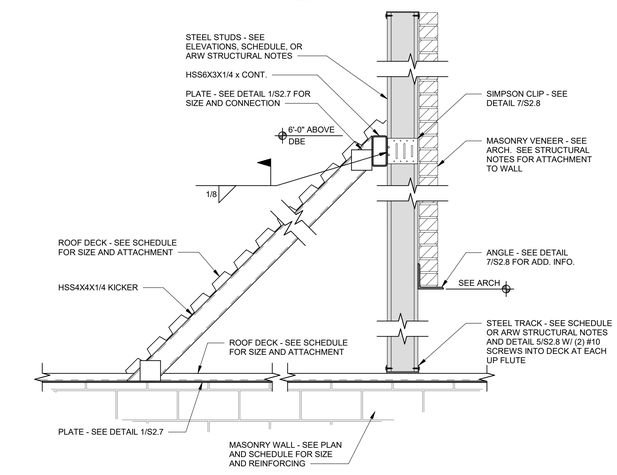
DETAIL — 6 / S2.8

SCALE : NONE



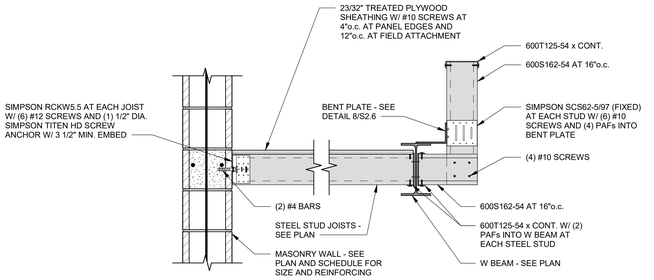
DETAIL — 7 / S2.8

SCALE : NONE



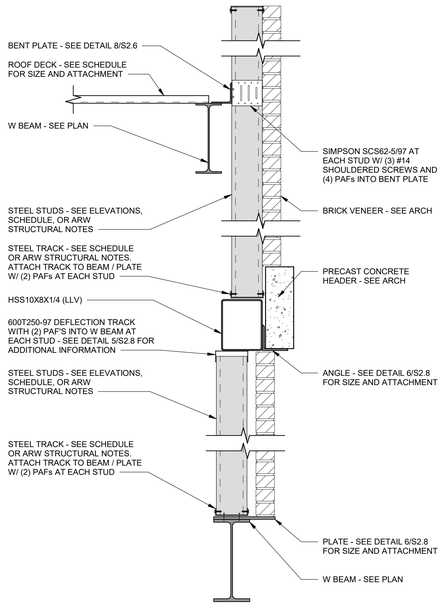
DETAIL — 8 / S2.8

SCALE : NONE



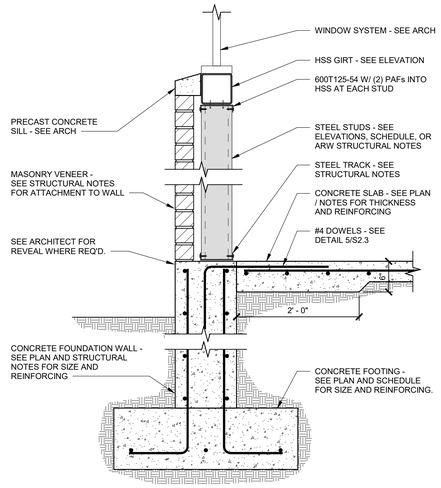
DETAIL — 9 / S2.8

SCALE : NONE



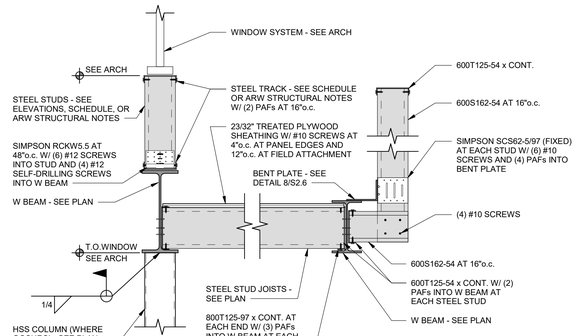
DETAIL — 10 / S2.8

SCALE : NONE



SECTION @ EXTERIOR WALL — 11 / S2.8

SCALE : NONE



DETAIL — 12 / S2.8

SCALE : NONE

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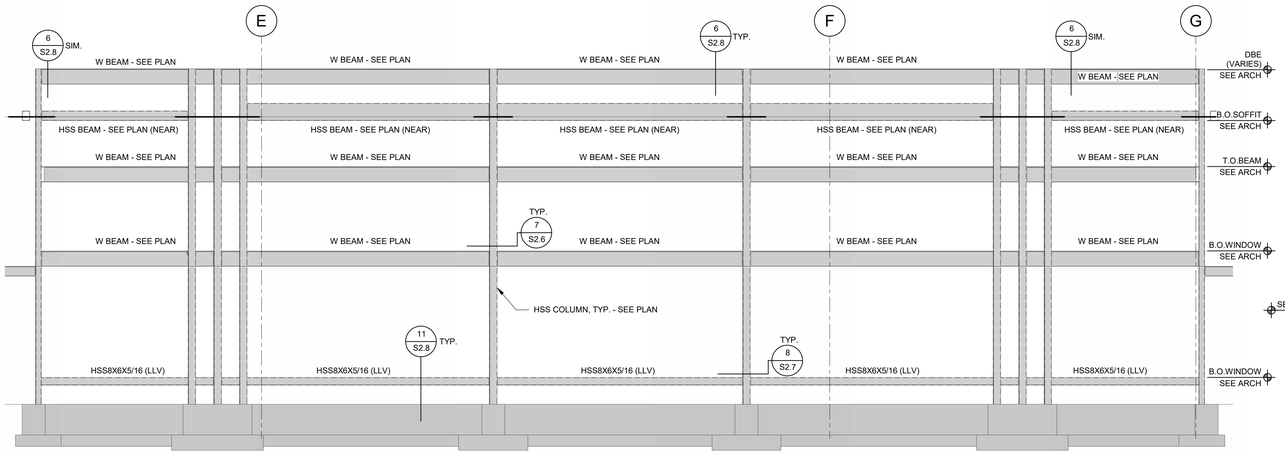
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DESIGNED BY:	A. BOWN
DWG TYPE:	
PROJECT PHASE:	BID SET

SHEET TITLE

STEEL STUD DETAILS

S2.8

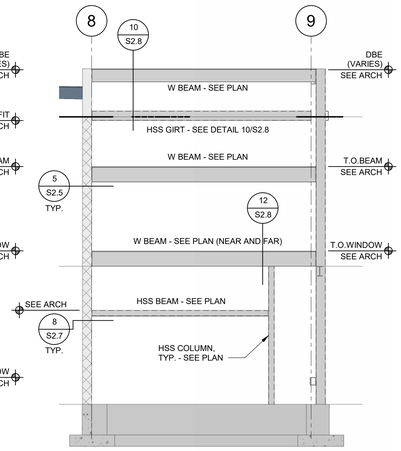
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Elevation A

SCALE : 3/16" = 1'-0"

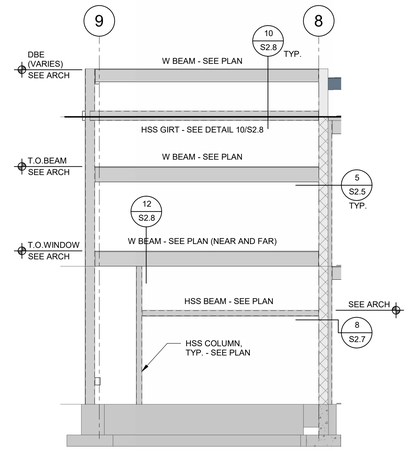
A S3.1



Elevation B

SCALE : 3/16" = 1'-0"

B S3.1



Elevation C

SCALE : 3/16" = 1'-0"

C S3.1

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SHEET TITLE

ELEVATIONS

S3.1

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ABBREVIATIONS

ø	ROUND OR DIAMETER
AC	AIR CONDITIONING
ACR	AIR CONDITIONING / REFRIGERATION
ADD	VVT ADDER PANEL
AFF	ABOVE FINISHED FLOOR
ASL	ABOVE SEA LEVEL
APD	AIR PRESSURE DROP
BHP	BRAKE HORSE POWER
B.O.D.	BOTTOM OF DUCT
BTU/H	BRITISH THERMAL UNITS PER HOUR
CAP.	CAPACITY
CCP	CENTRAL CONTROL PANEL
CFM	CUBIC FEET PER MINUTE
DB	DRY BULB TEMPERATURE
EAT	ENTERING AIR TEMPERATURE
E.C.	ELECTRICAL CONTRACTOR
EER	ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY
ELEV	ELEVATION
ESP	EXTERNAL STATIC PRESSURE
FACC	FIRE ALARM CONTROL CONTRACTOR
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FV	FACE VELOCITY
HP	HORSEPOWER
HR	HOUR
HT	HEIGHT
IEER	INTEGRATED ENERGY EFF. RATIO
IN.	INCH
KW	KILOWATT
L.A.T.	LEAVING AIR TEMPERATURE
LAT.	LATENT
LBS	POUNDS
MAX	MAXIMUM
MBH	THOUSAND BRITISH THERMAL UNITS/HOUR
M.C.	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPS
MECH	MECHANICAL
MIN	MINIMUM
MOCP	MAX. OVER-CURRENT PROTECTION
MVD	MANUAL VOLUME DAMPER
N/A	NOT APPLICABLE
N.C.	NOISE CRITERIA
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OZ	OUNCE
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PPM	PARTS PER MILLION
PRESS.	PRESSURE
PSI	PER SQUARE INCH
RA	RETURN AIR
REF	REFRIGERATION
RBJ	ROUTE BETWEEN JOISTS
RPM	REVOLUTIONS PER MINUTE
RTJ	ROUTE THROUGH JOISTS' OPEN WEBS
SA	SUPPLY AIR
SEN	SENSIBLE
SP	STATIC PRESSURE
SQ FT	SQUARE FEET
SS	STAINLESS STEEL
TSP	TOTAL STATIC PRESSURE
TEMP.	TEMPERATURE
T-STAT	THERMOSTAT
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VVT	VARIABLE VOLUME / TEMPERATURE
W	WITH
WB	WET BULB TEMPERATURE
W.C.	WATER COLUMN
W/O	WITHOUT
WT	WEIGHT

MECHANICAL LEGEND

- EXHAUST DUCT DOWN
- EXHAUST DUCT UP
- RETURN DUCT DOWN
- RETURN DUCT UP
- SUPPLY AIR DUCT DOWN
- SUPPLY AIR DUCT UP
- H.E.T. FITTING W/ DAMPER
- H.E.T. FITTING W/ DAMPER
- CEILING SLOT DIFFUSER
- SUPPLY AIR DIFFUSER
- CEILING DIFFUSER (W/ BLOCK OFF)
- CEILING DIFFUSER - ROUND
- CEILING EXHAUST GRILLE
- RETURN AIR GRILLE
- DIRECTION OF AIRFLOW
- ACCESS PANEL
- OPPOSED BLADE DAMPER (OBD)
- DE-STRATIFICATION FAN
- MOTORIZED CONTROL DAMPER 24V CONNECTIONS BY M.C. (MD)
- GRAVITY BACK-DRAFT DAMPER W/ INTERLOCKING SEALS AND BLADES (BD)
- BAROMETRIC BYPASS DAMPER (BAR)
- DETAIL TAG (DNO)
- KEYED NOTE (#)
- SECTION CUT LINE — SECTION NO. / DRAWING NO.
- AIR DEVICE CALL-OUT (CFM)
- CONCENTRIC DUCT REDUCING TRANSITION
- ECCENTRIC DUCT REDUCING TRANSITION
- SQUARE TO ROUND
- DUCT ELBOW W/ TURNING VANES OR RADIUS ELBOW
- DUCT ELBOW W/ TURNING VANES OR RADIUS ELBOW

CONTROLS LEGEND

- CARBON DIOXIDE SENSOR (CO2)
- REFRIGERANT SENSOR (R)
- STATIC PRESSURE SENSOR (SP)
- THERMOSTAT (T)
- TEMPERATURE SENSOR (S)
- TYPE 1 HOOD FULL STATION (H1)
- TYPE 2 HOOD SWITCH (BY M.C.) (H2)
- DUCT-MOUNTED SMOKE DETECTOR (DSD)
- CONTROL TRANSFORMER (24v) (TRX)
- BUILDING AUTOMATION SYSTEM (BAS)

#INSTALL THERMOSTATS AT 8'-0" A.F.F. ON SALES FLOOR

##INSTALL SENSORS AT SAME ELEVATION AS LIGHT SWITCHES FOR ALL OTHER LOCATIONS UNLESS NOTED OTHERWISE.

GENERAL NOTES:

1. ALL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH:
2024 INTL. BUILDING CODE
2024 INTL. FUEL GAS CODE
2024 INTL. MECHANICAL CODE
2024 INTL. ENERGY CODE
2024 INTL. PLUMBING CODE

2. DUCTWORK SHALL BE INSULATED AS FOLLOWS:

	LINED OR WRAPPED	R-VALUE
RTU RECTANGULAR DUCTUORK:	LINED	R-6
ROUND DUCTWORK:	WRAPPED	R-6
EXPOSED DUCT (W/ ALUM. JACKET)	WRAPPED	R-12

#GREASE DUCT REQUIRES TWO LAYERS OF 3"@1.5# WRAP (OR EQUIVALENT)
#ALL INSULATION TO MEET NFPA 90 PER UL 181-CLASS 1. NO DUCT BOARD ALLOWED.

3. INSULATION APPLIED TO THE SURFACE OF DUCTS, INCLUDING DUCT COVERINGS, LININGS, TAPES, AND ADHESIVES, LOCATED IN BUILDINGS SHALL HAVE A FLAME SPREAD DEVELOPED INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50.

4. PROVIDE / INSTALL INTERNALLY INSULATED DUCT LINER A MINIMUM OF 10 FEET FROM HVAC EQUIPMENT IN SUPPLY AND RETURN AIR DUCT WORK.

5. ALL DUCTWORK SERVING TYPE 1 HOODS IS TO BE 16 GAUGE, WELDED CARBON STEEL OR #18 STAINLESS STEEL AND SHALL BE FIRE WRAPPED WITH 2 LAYERS OF 3M 615+ (ASTM E2336) FIRE BARRIER WRAP (OR EQUIVALENT) TO MEET CODE. ALTERNATE SUBMITTALS SHALL INCLUDE LISTING, ICC-ES DOCUMENTATION, AND INSTALLATION INSTRUCTIONS.

6. M.C SHALL SUBMIT SHOP DRAWINGS ON THE HOOD AND ASSOCIATED FIRE SUPPRESSION SYSTEM TO AHJ FOR APPROVAL PRIOR TO INSTALLATION. WHERE THIS REQUIRES A SEPARATE PERMIT / INSPECTION, THE M.C. SHALL PROVIDE ALL REQUIRED DOCUMENTATION FOR THIS WORK. SHOP DRAWINGS SHALL INCLUDE SCALED REPRESENTATIONS OF HOOD, EQUIPMENT UNDER HOOD, FIRE SUPPRESSION COMPONENTS, NOZZLE SPECIFICATIONS WITH FLOW, PATTERN, AND SPACING PER INTERNATIONAL FIRE CODE SECTION 904.12.

7. HVAC PIPE INSULATION SHALL BE INSULATED IN ACCORDANCE WITH I.E.C.C. TABLE C403.13.3.1. INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED FROM DAMAGE AND SHIELDED FROM SOLAR RADIATION. ADHESIVE TAPE SHALL NOT BE PERMITTED AS A MEANS OF INSULATION PROTECTION.

8. ALL DUCTWORK (UNLESS OTHERWISE NOTED ON FLOOR PLANS) SHALL BE CONSTRUCTED OF 2" W.C. SEAL CLASS "A".

9. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.

10. ALL DUCTWORK IS TO BE INSTALLED AS HIGH AS POSSIBLE. ALL DUCTWORK MUST BE INSTALLED NO LOWER THAN 12" FROM WHERE IT IS BEING SUPPORTED OR SEISMIC BRACING WILL BE REQUIRED. IF DUCTWORK IS INSTALLED BELOW 12" FROM WHERE IT IS SUPPORTED, IT IS THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO HAVE SEISMIC SUPPORTS ENGINEERED FOR THE JOB BY A LICENSED ENGINEER.

11. ALL TAKE-OFFS SHALL BE HIGH EFFICIENCY TAKE-OFFS (HET's). NO EXCEPTIONS.

12. ALL RETURN AIR GRILLES SHALL HAVE SOUND BOOTS W/ LINED INSULATION. INSULATION IS TO BE PAINTED FLAT BLACK.

13. DUCTWORK AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.

14. CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH ELECTRICAL, PLUMBING, ARCHITECTURAL, AND BUILDING STRUCTURE.

15. CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT SCHEDULES TO THE ARCHITECT FOR ENGINEER'S APPROVAL PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.

16. ALL MECHANICAL SYSTEMS / THEIR COMPONENTS MUST BE BALANCED TO THE VALUES INDICATED ON THE FLOOR PLANS. PROVIDE A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS. REPORT SHALL BE COMPLETED PRIOR TO THE FINAL INSPECTION / APPROVAL BY THE AUTHORITY HAVING JURISDICTION. BALANCING SHALL BE IN COMPLIANCE WITH AABC OR NEBB AND BALANCER MAY BE CERTIFIED BY EITHER.

17. EACH TRADE IS RESPONSIBLE FOR THEIR OWN FIRE CAULKING. SEE ARCH. PLANS.

18. MECHANICAL CONTRACTOR IS TO COORDINATE WITH ELECTRICAL ON SIZE/QUANTITY OF MOTORIZED DAMPERS.

19. G.C. TO SUBMIT TO ARCHITECT ALL AS-BUILDS OF BUILDINGS MECHANICAL SYSTEMS WITHIN 90 DAYS OF SYSTEM ACCEPTANCE. C408.2.5

20. HVAC DESIGN IS IN CONFORMANCE WITH THE 2024 IECC, ASHRAE 183, AND ASHRAE HANDBOOK OF FUNDAMENTALS. ANY CHANGES TO DESIGN MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL. SEE M5 SERIES SHEETS FOR LOAD CALCULATIONS.

21. ALL MECHANICAL EQUIPMENT SHALL BE LISTED, LABELED, AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PER MC 301.7.

22. ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, OR SHEET METAL UNTIL THE FINAL STARTUP OF THE HEATING, COOLING AND VENTILATION EQUIPMENT.

23. GENERAL EXHAUST DUCTS / FANS SHALL BE EQUIPPED WITH BACK-DRAFT DAMPERS.

24. GENERAL CONTRACTOR SHALL PROVIDE THE BUILDING OWNER WITH OPERATIONS AND MAINTENANCE DOCUMENTS INCLUDING MANUF. INFORMATION, SPECIFICATIONS / RECOMMENDATIONS, PROGRAMMING PROCEDURES AND DATA POINTS, NARRATIVES, AND OTHER MEANS OF ILLUSTRATING TO THE OWNER HOW THE BUILDING, EQUIPMENT, AND SYSTEMS ARE INTENDED TO BE INSTALLED, MAINTAINED, AND OPERATED. REQUIRED REGULAR MAINTENANCE ACTIONS FOR EQUIP. AND SYSTEMS SHALL BE CLEARLY STATED ON A READILY VISIBLE LABEL. THE LABEL SHALL INCLUDE THE TITLE OR PUBLICATION NUMBER FOR THE OPERATION AND MAINTENANCE MANUAL FOR THAT PARTICULAR MODEL AND TYPE OF PRODUCT. (IECC 408.1.1)

25. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

26. THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION ADDITIONS OR AREAS OF ALTERATION WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, M.C. TO REPLACE FILTERS JUST PRIOR TO SUBSTANTIAL COMPLETION.

27. THE G.C. SHALL CONTRACT A COMMISSIONING AGENT TO PROVIDE / IMPLEMENT A COMMISSIONING PLAN PURSUANT TO IECC 408.2.1. FINAL COMMISSIONING REPORT TO BE PROVIDED TO OWNER WITHIN 90 DAYS OF RECEIVING CERTIFICATE OCCUPANCY.

28. HVAC CONTROLS SHALL BE TESTED TO ENSURE PROPER OPERATION, CALIBRATION, AND ADJUSTMENT OF CONTROLS.

29. HVAC EQUIPMENT, SYSTEMS, AND SYSTEM-TO-SYSTEM RELATIONSHIPS HAVE BEEN TESTED TO ENSURE PROPER OPERATION. C408.2.3.1

30. DUCT-MOUNTED TEMPERATURE SENSORS ARE TO BE PROVIDED BY CONTROLS CONTRACTOR, INSTALLED BY M.C..

SEISMIC RESTRAINT NOTES:

-MECHANICAL AND PLUMBING (MP) COMPONENTS PERMANENTLY ATTACHED TO THE STRUCTURE ARE REQUIRED TO HAVE SEISMIC RESTRAINT PER INTERNATIONAL BUILDING CODE SECTION 1613.1 UNLESS EXCLUDED BY CHAPTER 13 OF ASCE 7. THIS APPLIES TO EQUIPMENT SUCH AS COMPONENTS 400+ POUNDS AND SUPPORTED BY A CEILING OR WALL, OR DISTRIBUTION SYSTEMS WEIGHING 5+ PLF.
- IMC 301.18: WHERE EARTHQUAKE LOADS ARE APPLICABLE WITH THE INTERNATIONAL BUILDING CODE, MECHANICAL SYSTEMS SHALL BE DESIGNED AND INSTALLED FOR THE SEISMIC FORCES IN ACCORDANCE OF THAT CODE / ANY LOCALLY ADOPTED AMENDMENTS.
-THE SEISMIC RESTRAINT DETAILS FOR MP COMPONENTS SHALL BE SUBMITTED LATER AS A DEFERRED SUBMITTAL BY CONTRACTOR RESPONSIBLE FOR INSTALLATION OF SUCH EQUIPMENT / SYSTEMS.

VESTIBULE REQUIREMENTS (IECC 403.4.1.5):

HEATING / COOLED VESTIBULES:

THE HEATING SYSTEMS FOR HEATED VESTIBULES WITH INTEGRAL HEATING SHALL BE PROVIDED WITH CONTROLS CONFIGURED TO SHUT OFF THE SOURCE OF HEATING WHEN THE OUTDOOR AIR TEMPERATURE IS GREATER THAN 45°F. VESTIBULE HEATING AND COOLING SYSTEMS SHALL BE CONTROLLED BY A THERMOSTAT LOCATED IN THE VESTIBULE CONFIGURED TO LIMIT HEATING TO A TEMPERATURE NOT GREATER THAN 60°F AND COOLING TO A TEMPERATURE NOT LESS THAN 85°F.

LOAD CALCULATIONS REFLECT THE VESTIBULE HEATING / COOLING GUIDELINES LISTED ABOVE.

TEST & BALANCING PROCEDURES / REQUIREMENTS:

-ALL TESTING / BALANCING SHALL ADHERE TO AABC (6TH EDITION) OR NEBB (7TH EDITION).
-BEFORE BALANCING, ALL PRESSURE TEST (DUCT LEAKAGE) OF DUCT AND PIPING SYSTEMS MUST BE COMPLETE AND ACCEPTABLE.
-OBTAIN AS-BUILT DESIGN DRAWINGS AND SPECIFICATIONS, AND BECOME THOROUGHLY ACQUAINTED WITH THE DESIGN INTENT.
-OBTAIN COPIES OF APPROVED SHOP DRAWINGS OF ALL AIR HANDLING EQUIPMENT, OUTLETS, AND TEMPERATURE CONTROL DIAGRAMS, INCLUDING PERFORMANCE CURVES. COMPARE DESIGN REQUIREMENTS WITH SHOP DRAWING CAPACITIES.
-CHECK DAMPERS (AS APPLICABLE) FOR CORRECT AND LOCKED POSITION AND TEMP. CONTROL FOR COMPLETENESS OF INSTALLATION BEFORE STARTING FANS.
-CHECK FILTERS FOR CLEANLINESS AND PROPER INSTALLATION. M.C. SHALL REPLACE DIRTY FILTERS PRIOR TO TESTING & BALANCING.
-PITOT TUBE TRAVERSE IS THE GENERALLY ACCEPTED METHOD OF MEASURING AIRFLOW IN DUCTS. THE MAXIMUM STRAIGHT RUN SHOULD BE OBTAINED BEFORE AND AFTER THE TRAVERSE STATION - SEE CHAPTER 36 OF ASHRAE FUNDAMENTALS / STANDARD 111.

C408.2.1: COMMISSIONING PLAN:

A COMMISSIONING PLAN SHALL BE DEVELOPED BY THE PROJECTS CERTIFIED COMMISSIONING PROFESSIONAL AND SHALL OUTLINE THE ORGANIZATION, SCHEDULE, ALLOCATION OF RESOURCES, AND DOCUMENTATION REQUIREMENTS OF THE COMMISSIONING PROCESS.
ITEMS 1 THROUGH 4 SHALL BE INCLUDED WITH THE CONSTRUCTION DOCUMENTS AND ITEMS 5 THROUGH 8 SHALL BE SUBMITTED PRIOR TO THE FIRST MECHANICAL INSPECTION. FOR PROJECTS WHERE NO MECH. INSPECTION IS REQUIRED, ITEMS 5-8 SHALL BE SUBMITTED PRIOR TO THE FIRST ELECTRICAL INSPECTION.
1. A NARRATIVE DESCRIPTION OF THE ACTIVITIES THAT WILL BE ACCOMPLISHED DURING EACH PHASE OF COMMISSIONING, INCLUDING THE PERSONNEL INTENDED TO ACCOMPLISH EACH OF THE ACTIVITIES.
2. ROLES AND RESPONSIBILITIES OF THE COMMISSIONING TEAM INCLUDING STATEMENT OF QUALIFICATIONS OF THE COMMISSIONING PROFESSIONAL.
3. A SCHEDULE OF ACTIVITIES INCLUDING SYSTEM TESTING AND BALANCING, FUNCTIONAL PERFORMANCE TESTING, AND VERIFICATION OF THE BUILDING DOCUMENTATION REQUIREMENTS IN SECTION C120.6.
4. WHERE THE CERTIFIED COMMISSIONING PROFESSIONAL IS AN EMPLOYEE OF ONE OF THE REGISTERED DESIGN PROFESSIONALS OF RECORD OR AN EMPLOYEE OR SUBCONTRACTOR OF THE PROJECT CONTRACTOR, AN IN-HOUSE COMMISSIONING DISCLOSURE AND CONFLICT MANAGEMENT PLAN SHALL BE SUBMITTED WITH THE COMMISSIONING PLAN. THIS PLAN SHALL DISCLOSE THE CERTIFIED COMMISSIONING PROFESSIONAL'S CONTRACTUAL RELATIONSHIP WITH OTHER TEAM MEMBERS AND PROVIDE A CONFLICT MANAGEMENT PLAN DEMONSTRATING THAT THE CERTIFIED COMMISSIONING PROFESSIONAL IS FREE TO IDENTIFY ANY ISSUES DISCOVERED / REPORT DIRECTLY TO THE OWNER.
5. A LISTING OF THE SPECIFIC EQUIPMENT, APPLIANCES, OR SYSTEMS TO BE TESTED AND A DESCRIPTION OF THE TESTS TO BE PREFORMED.
6. FUNCTIONS TO BE TESTED.
7. CONDITIONS UNDER WHICH THE TESTS WILL BE PERFORMED.
8. MEASURABLE CRITERIA FOR PERFORMANCE.

CODES & DESIGN CRITERIA

JURISDICTION:	Spanish Fork, UT
MECHANICAL CODE:	2024 IMC
ENERGY CODE:	2024 IECC
CLIMATE ZONE:	5B
WINTER DESIGN DB:	0° F
SUMMER DESIGN TEMP DB / WB	96° / 67° F
RETAIL HEATING SET POINT:	72° F
RETAIL COOLING SET POINT:	70° F
PREP AREA HEATING SET POINT:	68° F
PREP AREA COOLING SET POINT:	75° F
OFFICE / RX HEATING SET POINT:	72° F
OFFICE / RX COOLING SET POINT:	68° F
IT SET POINT:	70° F
ROOF R-VALUE:	R-40
WALL R-VALUE:	R-19
GLASS SHADING COEFFICIENT:	0.46
VERTICAL FIXED FENESTRATION:	0.34 U-Factor
SKYLIGHT SHADING COEFFICIENT:	0.40
SKYLIGHT GLASS U-VALUE:	0.50
ENTRANCE DOOR:	0.63
UNHEATED SLAB:	R-15 TO -24"
BUILDING TYPE:	MERCANTILE
ELEVATION:	4,575' A.S.L.

SPLIT SYSTEM NOTES:

- PROVIDE WITH SIMPLIFIED CONTROLLER
- PROVIDE WITH FACTORY FILTER BOX
- PROVIDE WITH FRONT / REAR BAFFLES
- PROVIDE WITH INSULATED LINE SETS. HVAC PIPE INSULATION SHALL BE INSULATED IN ACCORDANCE WITH I.E.C.C. TABLE C403.11.3. INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED FROM DAMAGE AND SHIELDED FROM SOLAR RADIATION.
- PROVIDE W/ THERMOSTAT ADAPTOR
- PROVIDE CONDENSATE PUMP WHEN NOT INTEGRAL TO UNIT.
- OUTDOOR UNIT POWERS INDOOR UNIT. COORDINATE WITH E.C.

ELECTRIC UNIT HEATER

PLAN MARK	AREA SERVED	MANUFACTURER	MODEL	POWER	AMPS	WATTS	BTUH	CFM	WEIGHT LBS.	DIMENSIONS (EXTERIOR) WIDTH	DEPTH	HEIGHT	REMARKS
EUH	WATER RISER	QMARK	AWH4404F	208/1	14.4	3000	9420	100	25 lbs.	14 3/8"	3 7/8"	18 1/4"	INTEGRAL THERMOSTAT. SET TO 36 DEGREES. MANUAL RESET THERMAL OVERHEAT PROTECTOR. POWER ON/OFF SWITCH.

AIRIUS DESTRATIFICATION FAN

SYMBOL	QUANTITY	AREA SERVED	MODEL NO.	MAX AIR FLOW (CFM)	RPM	MAX COVERAGE (SF)	MOTOR AMPS	MOTOR VOLTS	MOTOR WATTS	MOUNTING ELEVATION	WEIGHT	CORD
DSF-1	8	SALES	A-25-SP-SH-120-W	459	1,670	1,200	0.31	120/1	37	18' A.F.F.	7 LBS	6'
DSF-2	3	CHECKSTANDS										
DSF-3	4	ENTRY										
DSF-4	7	DOCK										

OPTIONS
1. DIRECT DRIVE, PERM. LUBRICATED SHADED POLE MOTOR
2. STANDARD NOZZLE LENGTH
3. PC/ABS RESIN BODY
4. SPEED CONTROLLER TRIAC-120-5 (ONE PER FAN GROUP)
5. COLOR: WHITE (VERIFY W/ OWNER / ARCH. PROR TO ORDERING

LOUVERED PENTHOUSE SCHEDULE

SYMBOL	LOCATION	APPLICATION	MANUFACTURER	MODEL NO.	AIR FLOW (cfm)	MAXIMUM STATIC PRESSURE DROP	THROAT SIZE W x D (inches)	TIERS HIGH	THROAT AREA (SQ. FT.)	VELOCITY (FPM)	ROOF OPENING SIZE (inches)	CONTROLS	WEIGHT (lbs)
LPH.1	DOCK	RELIEF	GREENHECK	WRH	8,560	0.025" W.G.	48" X 64"	8	21.4	400	56" X 72"	C1	150
LPH.2													
LPH.3	REFRIGERATION	IN-TAKE		WIH	4,000	.045" W.G.	32" X 36"	5	8.0	500	40" X 44"	C2	65

OPTIONS & ACCESSORIES	CONTROLS	COMMENTS
(1) 12" HIGH PREFABRICATED ROOF CURB	(C1) 24V MOTORIZED DAMPER W/ PRESSURE SENSOR ACTIVATION	(A) CAPACITY AT ELEVATION (4,575 FT)
(2) 1/2" MESH GALVANIZED BIRD SCREEN	(C2) COUNTER-BALANCED DAMPER. COORDINATE W/ BALANCER.	

REZNOR NG UNIT HEATER SCHEDULE

PLAN MARK	AREA SERVED	MODEL	INPUT MBTUH	OUTPUT MBTUH	EFFICIENCY	CFM	POWER	F.L.A.	MOCP	CONTROL AMPS	DIMENSIONS WEIGHT	WIDTH	DEPTH	HEIGHT	ELEVATION	FLUE TYPE	FLUE SIZE (IN)
UH.1	DOCK	UDXC-100	105	87,150	83%	1345	115/1	4.3	15	24V @ 1a	101 LBS	27"	34 9/32"	24 3/4"	12' A.F.F.	DOUBLE WALL - B VENT	4"
UH.2																	
UH.3																	
UH.4		UDXC-75	75	62.25		961		3.7			76 LBS	27"	31 29/32"	16 3/4"			

COMMENTS
(1) PERFORMANCE REFERS TO LOCAL ALTITUDE OF 4,575' A.S.L.
(2) PROVIDE W/ HIGH ELEVATION KIT
(3) PROVIDE W/ LOW-VOLTAGE THERMOSTAT
(4) PROVIDE W/ FACTORY MOUNTING KIT (4 POINT SUSPENSION)

ESSICK EVAPORATIVE COOLER SCHEDULE

PLAN MARK	AREA SERVED	DISCHARGE	MODEL	CFM	ESP (IN)	SPEED	MOTOR	HP	SHEAVE / PULLEY	MOTOR / DRIVE	DUCT OPENING	WIDTH	DEPTH	HEIGHT	WEIGHT (OPERATIONAL)	PUMP VOLT / PHASE	PUMP AMPS	PUMP PART #	REMARKS
EC.1	DOCK	VERTICAL	N56/66D	4780	0.1"	2	115 @ 13.8A	3/4	110278 (PULLEY)	4L-690 (DRIVE BELT) 110447 (MOTOR)	19.75" X 19.75"	39"	39"	42.5"	325 LBS	120/1	0.7	110436	PROVIDE W/ CHAMPION MASTERSTAT 110423-2 CONTROL SYSTEM. REQUIRES 120 V OUTLET. M.C. TO PROVIDE INVERTED CONE FOR DISTRIBUTION. PROVIDE 12" TALL CURB. TERMINATE DRAIN ON ROOF. SEE M1.1 FOR RELIEF.
EC.2			75/85DD	6449			230/1	1	110279-003 (SHEAVE)	110458 (MOTOR)	21.75" X 21.75"	41.25"	41.25"	54"	450 LBS	230/1	0.25	110468	
EC.3			N56/66D	4000			115 @ 9.8A	1/2	110278 (PULLEY)	4L-690 (DRIVE BELT) 110447 (MOTOR)	19.75" X 19.75"	39"	39"	42.5"	325 LBS	120/1	0.7	110436	
EC.4			N31D	2060			115 @ 7.2A	1/3	110277 (PULLEY)	4L-450 (DRIVE BELT) 110445 (MOTOR)	13.6" X 13.6"	28.2"	28.2"	33.5"	175 LBS	120/1	0.7	110436	

SAMSUNG SPLIT SYSTEM SCHEDULE

INDOOR UNIT PLAN MARK	AREA SERVED	INSTALLATION	CFM	OUTSIDE AIR	SPEED	ESP (W.C.")	CONDENSATE DRAIN	DIMENSIONS WIDTH	HEIGHT	DEPTH	WEIGHT (LBS)	MODEL	OUTDOOR UNIT PLAN MARK	IECC MIN. SEER2	SEER2 RATING	EFFICIENCY IMPROVEMENT	IECC MIN. HSPF2	HSPF2	EFFICIENCY IMPROVEMENT	COOLING TOTAL	HEATING TOTAL	REFRIGERANT	DIMENSIONS WIDTH	HEIGHT	DEPTH	WEIGHT (LBS)	ELECTRICAL DATA VOLT	PH	MCA	MOCP	MODEL
AC.1	SOUTH CONFERENCE	CONCEALED	750	100	MEDIUM	0.8" MAX	1 1/16"	47 1/4"	9 13/16"	27 9/16"	89.3	AC024MNHDCH/AA	RCU.1	13.4	18.5	38.06	7.5	10.6	41.3	24,000	27,000	R410A	37"	39 11/16"	12 3/4"	142	208	1	13.5	20	AC024JXADCH
AC.2	DOCK OFFICE	WALL	251	10	LOW	N/A	11/16" OD	35"	11 3/4"	8 7/16"	24	AR09DXDABWKNCV	RCU.2	13.4	25	86.57	7.5	10.5	40.0	9,000	11,000	R-32	31 1/8"	21 9/16"	11 1/4"	70			12	20	AR09DXDABWKXCV
AC.3	DOCK OFFICE / STORAGE	CONCEALED	353	40	LOW	0.24" MAX	1" I.D.	43 5/16"	7 13/16"	17 5/16"	50	AC018BNLDCH	RCU.3	13.4	18.5	38.06	7.5	7.5	0.0	18,000	20,000	R410A	34 5/8"	31 7/16"	12 1/4"	120			20.1	25	AC018BXADCH
AC.4	TRAINING		759	105	MEDIUM	0.8" MAX		47 1/4"	9 13/16"	27 9/16"	78	AC030BNHDCH	RCU.4	13.4	18.2	35.82	7.5	8.4	12.0	30000	32000	R410A	37"	39 5/16"	13"	160			24	30	AC030BXAD
AC.5	DEPT. HEADS' OFFICE		848	65	LOW			51 3/16"	11 13/16"	27 9/16"	97	AC036BNHDCH	RCU.5	13.4	19	41.79	7.5	8.4	12.0	36000	40000	R410A	37"	47 11/16"	13"	190			24.5	35	AC036BXAD
AC.6	CUSTOMER SERVICE / RESTROOMS		1100	115	MEDIUM								RCU.6									R410A								
AC.7	E SHOP		759	100	MEDIUM			47 1/4"	9 13/16"	27 9/16"	78	AC030BNHDCH	RCU.7	13.4	18.2	35.82	7.5	8.4	12.0	30000	32000		37"	39 5/16"	13"	160			24	30	AC030BXAD
AC.8	ELECTRICAL ROOM	SUSPENDED	1,257	50	HIGH			37 1/4"Ø	14 3/8"		56	AC048BN6DCH	RCU.8	13.4	17.8	32.84	7.5	8.7	16.0	48000	54000	R-32	37"	47 11/16"	13"	196			32.8	40	AC048BXADCH
AC.9	MEZZ. IT ROOM	WALL	724	0	MEDIUM	N/A	11/16" OD	50 3/8"	9 15/16"	13 9/16"	42	AC030BNTDCH	RCU.9	13.4	20.0	49.25	7.5	8.7	16.0	30,000	32,000	R410A	37"	39 5/16"	13"	159			24	30	AC030BXADCH
AC.10	MEZZ. TELEPHONE												RCU.10				7.5	8.3	10.7												

design Sequence
350 SOUTH 200 EAST, #106
SALT LAKE CITY, UTAH 84111
P: 801.596.0691
DESIGNUTAH.COM

HARMONS

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 11, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
PVE PROJECT NO: 26076.00
DRAWN BY: BNS
CONTACT: BSPARKS@PVE-UT.COM
DWG TYPE:
ARCHITECTURAL PHASE: BID SET
SHEET TITLE

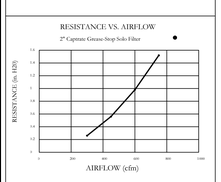
HVAC NOTES, SYMBOLS, & SCHEDULES

M0.1

PVE
1040 N 2200 WEST SALT LAKE CITY UTAH
T: 801.359.3158 www.pve-ut.com



Captrate
Grease-Stop Solo Filter



Filter Detail

CAPTRATE²

EXHAUST CFM=LENGTH OF HOOD X CFM/LIN.FT. (LOAD)

SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED

TOTAL DUCT AREA=144 X $\frac{\text{CFM}}{\text{FPM(*)}}$

DUCT LENGTH= $\frac{\text{TOTAL DUCT AREA}}{\text{DUCT DEPTH}}$

* CAPTIVE-AIRE VENTILATOR DUCT SIZES ARE CALCULATED USING AN EXHAUST VELOCITY OF 1600-1800 FPM AND A SUPPLY VELOCITY OF 1000 FPM. PLEASE CONSULT FACTORY FOR MAXIMUM ALLOWABLE DUCT SIZES

CALCULATIONS UTILIZED

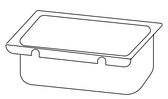
CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:

- NFPA #96
- ETL SANITATION
- E.T.L. LISTED 3054804-001
- ETL IS LISTED TO ULC STANDARDS
- NSF

NFPA®

Intertek

BUILDING CODES



Grease Cup will be supported by 2 studs on the inside wall of the hood. The grease will drain trough a concealed grease trough and into this removable cup.

1/2 Pint Grease Cup Detail



* ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR HANGING ANGLE IS PRE-PUNCHED AT FACTORY

ND-2 HANGING ANGLE DETAIL

HANGING ANGLES WILL BE LOCATED IN THE FOLLOWING LOCATIONS FOR WALL CANOPIES

HOOD STYLE		DIM FROM REAR	DIM FROM FRONT (24" High Hood)	DIM FROM FRONT (30" High Hood)
Wall	Exhaust Only	4.166"	2.25"	2.25"
	With MUA		2.25"	2.25"
Back Shelf	Exhaust Only	4.166"	2.25"	2.25"
	With MUA		2.25"	2.25"
Condensate		2.25"	2.25"	

HANGING ANGLE LOCATIONS

FOR QUESTIONS, CALL THE
Utah Office
REGION 87
PHONE: (801) 878 - 3677
EMAIL: reg87@captiveaire.com

PATENT NUMBERS

AC-PSP (UNITED STATES) - US PATENT 7963830 B2.
AC-PSP WALL (CANADA) - CA PATENT 2820508.
AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

CAPTIVE AIRE HOOD INFORMATION – JOB#8739959

HOOD NO	TAG	SERVES	MODEL	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) HEIGHT	DIA	CFM	VEL	SP	HOOD CONSTRUCTION	CONFIG. END TO END
1	H1A	DELI-COMBIS	6024 ND-2	11' 0"	600 DEG	I	HEAVY	225	2475	4"	18"	2475	1401	-0.654"	304 SS 100%	LEFT
2	H1B	DELI-RANGE	6024 ND-2	11' 0"	600 DEG	I	HEAVY	225	2475	4"	18"	2475	1401	-0.654"	304 SS 100%	RIGHT
3	H2	WASH ROOM FAN WASHER	4824 VHB-G	4' 6"	700 DEG	II	N/A	200	900	4"	12"	900	1146	-0.149"	304 SS 100%	ALONE
4	H3A	JUST BURGERS	5424 ND-2	8' 0"	600 DEG	I	HEAVY	275	2200	4"	16"	2200	1576	-0.786	304 SS 100%	LEFT
5	H3B	JUST BURGERS	5424 ND-2	8' 0"	600 DEG	I	HEAVY	275	2200	4"	16"	2200	1576	-0.786	304 SS 100%	RIGHT
6	H4	BAKERY FAN WASHER	6024 VHB-G	4' 0"	700 DEG	II	N/A	200	800	4"	12"	800	1019	-0.118"	304 SS 100%	ALONE
7	H5	MEAT-COMBIS	6024 ND-2	5' 0"	600 DEG	I	HEAVY	225	1125	4"	12"	1125	1432	-0.518"	304 SS 100%	ALONE
8	H6	MEAT-PAN WASHER	6024 VHB-G	4' 0"	700 DEG	II	N/A	200	800	4"	12"	800	1019	-0.118"	304 SS 100%	ALONE

EXHAUST FAN INFORMATION – JOB#8739959

FAN UNIT NO	TAG	SERVES	CAPTIVE AIRE FAN UNIT MODEL #	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES	CONTROL
1	EF.1A	H1A	DUI80HFA	2475	1.654	1357	ODP,PREMIUM	2.000	1.433Ø	3	460	3.8	572 FPM	197	20.7	HOOD INTERLOCK
2	EF.1B	H1B	DUI80HFA	2475	1.654	1357	ODP,PREMIUM	2.000	1.433Ø	3	460	3.8	572 FPM	197	20.7	HOOD INTERLOCK
3	EF.2	H2	DU50HFA	900	0.800	1341	TEAO-ECM	0.500	0.366Ø	1	115	6.3	342 FPM	72	12.2	SWITCH BY M.C.
4	EF.3A	H3	DUI80HFA	2200	1.786	1379	ODP,PREMIUM	2.0	1.43	3	460	3.8	508 FPM	185	20.9	HOOD INTERLOCK
5	EF.3B		DUI80HFA	2200	1.786	1379	ODP,PREMIUM	2.0	1.43	3	460	3.8	508 FPM	185	20.9	HOOD INTERLOCK
6	EF.4	H4	DU50HFA	800	0.618	1182	TEAO-ECM	0.500	0.183Ø	1	115	6.3	304 FPM	73	9.5	SWITCH BY M.C.
7	EF.5	H5	DU85HFA	1125	1.018	1338	TEAO-ECM	0.750	0.416Ø	1	115	8.9	356 FPM	90	11.5	HOOD INTERLOCK
8	EF.6	H6	DU50HFA	800	0.618	1182	TEAO-ECM	0.500	0.183Ø	1	115	6.3	304 FPM	72	9.5	SWITCH BY M.C.
9	EF.7	RX RESTROOM	DUI21HFA	250	0.500	1603	TEAO-ECM	0.250	0.083Ø	1	115	2.9	177 FPM	53	9.4	TIME CLOCK BY M.C.
10	EF.8	LEVEL I RESTROOMS	DU50HFA	800	0.650	1208	TEAO-ECM	0.500	0.194Ø	1	115	6.3	304 FPM	73	9.9	TIME CLOCK BY M.C.
11	EF.9	MEZZANINE RESTROOMS	DU33HFA	750	0.500	1376	TEAO-ECM	0.333	0.146Ø	1	115	4.3	371 FPM	64	13.1	TIME CLOCK BY M.C.
12	EF.10	BREAK ROOM	DUI01HFA	100	0.500	1538	TEAO-ECM	0.166	0.017Ø	1	115	1.9	208 FPM	47	7.8	SWITCH BY E.C.
13	EF.11	BAKERY OVEN	DUI80HFA	1472	1.600	1288	ODP,PREMIUM	1.500	0.930Ø	1	115	50	340 FPM	192	18.3	EQUIPMENT INTERLOCK
14	EF.12	BAKERY OVEN	DUI80HFA	1472	1.600	1288	ODP,PREMIUM	1.500	0.930Ø	1	115	50	340 FPM	192	18.3	EQUIPMENT INTERLOCK
15	EF.13	REFRIGERATION VENTILATION	DU33HFA	410	Ø.5"	1258	TEAO-ECM	0.333	0.087	1	115	4.3	203 FPM	69	11	OCCUPANCY SENSOR BY E.C
16	EF.14	REFRIGERATION EMERGENCY	DU240HFA	3,960	Ø.5"	731	ODP,PREMIUM	2.0	Ø.974	3	208	8.3	900 FPM	271	12	REFRIGERATION INTERLOCK

CURB ASSEMBLIES

NO	ON FAN	TAG	R-VALUE	WEIGHT	ITEM	SIZE
1	# 1	EF.1A		52 LBS	CURB	26.500"W X 26.500"L X 24.000"H VENTED HINGED.
2	# 2	EF.1B		52 LBS	CURB	26.500"W X 26.500"L X 24.000"H VENTED HINGED.
3	# 3	EF.2		20 LBS	CURB	19.500"W X 19.500"L X 18.000"H.
4	# 4	EF.3A		52 LBS	CURB	26.500"W X 26.500"L X 24.000"H VENTED HINGED.
5	# 5	EF.3B		52 LBS	CURB	26.500"W X 26.500"L X 24.000"H VENTED HINGED.
6	# 6	EF.4		20 LBS	CURB	19.500"W X 19.500"L X 18.000"H.
7	# 7	EF.5		41 LBS	CURB	23.000"W X 23.000"L X 24.000"H VENTED HINGED.
8	# 8	EF.6		20 LBS	CURB	19.500"W X 19.500"L X 18.000"H.
9	# 9	EF.7		22 LBS	CURB	17.500"W X 17.500"L X 18.000"H.
10	# 10	EF.8		20 LBS	CURB	19.500"W X 19.500"L X 18.000"H.
11	# 11	EF.9		20 LBS	CURB	19.500"W X 19.500"L X 18.000"H.
12	# 12	EF.10		22 LBS	CURB	17.500"W X 17.500"L X 18.000"H.
13	# 13	EF.11		52 LBS	CURB	26.500"W X 26.500"L X 24.000"H VENTED HINGED.
14	# 14	EF.12		52 LBS	CURB	26.500"W X 26.500"L X 24.000"H VENTED HINGED.
15	# 15	EF.13		20 LBS	CURB	19.500"W X 19.500"L X 18.000"H.
16	# 16	EF.14		40 LBS	CURB	31.500"W X 31.500"L X 18.000"H.
17	# 17	DOAS.1	4.3	130 LBS	CURB	59.500"W X 91.000"L X 20.000"H INSULATED.
18	# 18	DOAS.2	4.3	130 LBS	CURB	59.500"W X 91.000"L X 20.000"H INSULATED.
19	# 19	DOAS.3	4.3	130 LBS	CURB	59.500"W X 91.000"L X 20.000"H INSULATED.
20	# 20	DOAS.4	4.3	130 LBS	CURB	59.500"W X 91.000"L X 20.000"H INSULATED.

1" R4.3 FOIL FACED FIBERGLASS INSULATION. COMPLIES WITH UL/ULC,ASTM, & ASHRAE STANDARDS.

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST GREASE CUP	EXHAUST GRAVITY DAMPER
1	EF.1A	YES	
2	EF.1B	YES	
3	EF.2		YES
4	EF.3A	YES	
5	EF.3B	YES	
6	EF.4		YES
7	EF.5	YES	
8	EF.6		YES
9	EF.7		YES
10	EF.8		YES
11	EF.9		YES
12	EF.10		YES
13	EF.11		YES
14	EF.12		YES
15	EF.13		YES
16	EF.14		YES

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT	IMC PERSONNEL WEIGHT	CALCULATED WEIGHT (SEE STRUCTURAL)
1	H1A	CAPTRATE SOLO FILTER	8	20"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND							YES	520 LBS	300 LBS	820 LBS
2	H1B	CAPTRATE SOLO FILTER	8	20"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	RIGHT	12"x60"x24"	TANK FS	4.0/14.0/14.0	DCV-20I1	1 LIGHT 1 FAN	YES	945 LBS		1245 LBS
3	H2						Ø								NO	175 LBS		475 LBS
4	H3A	CAPTRATE SOLO FILTER	5	20"	16"	85% SEE FILTER SPEC	2	RECESSED ROUND							YES	391 LBS		691 LBS
5	H3B	CAPTRATE SOLO FILTER	5	20"	16"	85% SEE FILTER SPEC	2	RECESSED ROUND							YES	397 LBS		697 LBS
6	H4						Ø								NO	201 LBS		501 LBS
7	H5	CAPTRATE SOLO FILTER	3	20"	16"	85% SEE FILTER SPEC	2	RECESSED ROUND	RIGHT	12"x60"x24"	TANK FS	4.0	DCV-10I1	1 LIGHT 1 FAN	YES	507 LBS		807 LBS
8	H6						Ø								NO	191 LBS		491 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	H1A	LEFT QUARTER END PANEL 23" TOP WIDTH, Ø" BOTTOM WIDTH, 23" HIGH 304 SS.
		MIN 18 GAUGE HOOD.
2	H1B	RIGHT QUARTER END PANEL 23" TOP WIDTH, Ø" BOTTOM WIDTH, 23" HIGH 304 SS.
		MIN 18 GAUGE HOOD.
3	H2	MIN 18 GAUGE HOOD.
4	H3A	LEFT END STANDOFF (FINISHED) 1" WIDE 60" LONG INSULATED.
		MIN 18 GAUGE HOOD.
		LEFT WALL AS END PANEL.
5	H3B	RIGHT QUARTER END PANEL 23" TOP WIDTH, Ø" BOTTOM WIDTH, 23" HIGH 304 SS.
		MIN 18 GAUGE HOOD.
7	H5	RISER SENSOR INSTALL 6IN PLEN.
		MIN 18 GAUGE HOOD.
8	H6	MIN 18 GAUGE HOOD.

WALL-MOUNT UTILITY CABINET

HOOD NO	LOCATION	SIZE	UTILITY CABINET(S) FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	WEIGHT
4	WALL MNT	12"x54"x30"	TANK FS	4.0/4.0	DCV-20I1	1 LIGHT 1 FAN	340.00 LBS

CLEARANCE TO COMBUSTIBLES

HOODS #	SURFACE	*CLEARANCE
1.5	TOP	18"
	FRONT	Ø"
	BACK	18"
	LEFT	18"
	RIGHT	18"
2.7	TOP	18"
	FRONT	Ø"
	BACK	18"
	LEFT	18"
	RIGHT	Ø"
4	TOP	18"
	FRONT	Ø"
	BACK	18"
	LEFT	Ø"
	RIGHT	18"

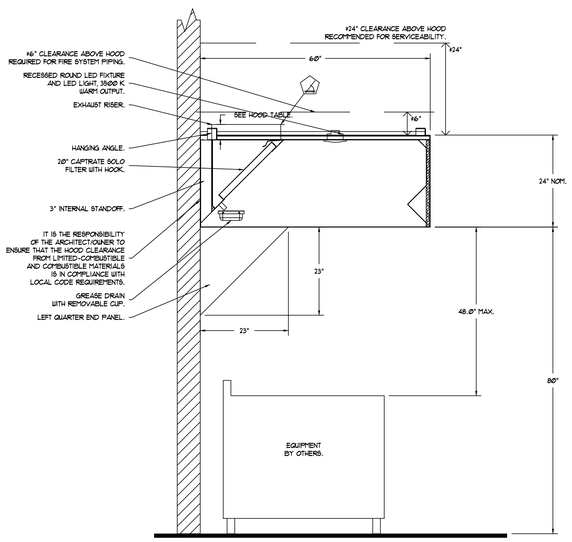
- *Ø" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.
- HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.

SYSTEM DESIGN VERIFICATION (SDV)

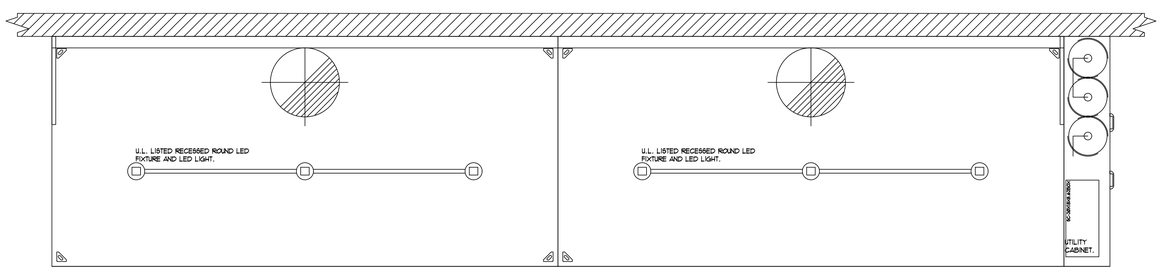
IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.



SECTION VIEW – MODEL 6024ND-2
HOOD – #1 (H1A)



PLAN VIEW – HOOD #1 (H1A)
11' 0.00" LONG 6024ND-2-PSP-F

PLAN VIEW – HOOD #2 (H1B)
11' 0.00" LONG 6024ND-2-PSP-F

design Sequence
350 SOUTH 200 EAST, #106
SALT LAKE CITY, UTAH 84111
P: 801.596.0691
DESIGNUTAH.COM

HARMONS

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 11, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
PVE PROJECT NO: 26076.00
DRAWN BY: BNS
CONTACT: BSPARKS@PVE-UT.COM
DWG TYPE:
ARCHITECTURAL PHASE: BID SET
SHEET TITLE

HVAC SCHEDULES

M0.2

PVE
1040 N 2200 WEST SALT LAKE CITY UTAH
T: 801.359.3158 www.pve-ut.com

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
	Ø - Ø - B1145 - 3/8" BLACK IRON 90 ELL.	6	Ø
	Ø - Ø - SLPCON-03FT - SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN END TO END HOODS WITH LESS THAN A 3' GAP. KIT CONTAINS 5 FEET OF BLACK MG WIRE, 5 FEET OF TAN MG WIRE, 3 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	1	Ø
	Ø - Ø - SLPCON-05FT - SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN END TO END HOODS WITH LESS THAN A 4' GAP. KIT CONTAINS 7 FEET OF BLACK MG WIRE, 7 FEET OF TAN MG WIRE, 5 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	1	Ø
	Ø - Ø - 79525 - 1/2" 90 PRO-PRESS ELBOW WITH 1/2"NPT FEMALE CONNECTION, VIEGA.	2	Ø
	16 - 16 - OL-F - NOZZLE - TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE).	12	Ø
	Ø - Ø - SLPCON-30FT - SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN HOODS WITH UPTO 29' GAP. KIT CONTAINS 32 FEET OF BLACK MG WIRE, 32 FEET OF TAN MG WIRE, 30 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	1	Ø
	Ø - Ø - TANK STRAP - TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	9	Ø
	Ø - Ø - 79580 - 1/2" X 1/2" PRO-PRESS TEE X 1/2"NPT FEMALE CONNECTION, VIEGA.	3	Ø
	Ø - Ø - 4429K153 - 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	3	Ø
	Ø - Ø - 4429K422 - 1/2" X 1/4" BRASS REDUCING BUSHING.	2	Ø
	Ø - Ø - A31484 - 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES. 1/4" FLARE X 1/4" MPT HALF UNION. USED ON TANK SERVICE PORT.	2	Ø
	Ø - Ø - 12-F28021-32144-OT-360 - DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360°F. (A0034310).	2	Ø
	34 - 34 - A0034331 - RED COLOR - 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT.	1	Ø
	Ø - Ø - UK-283952-ØØØ - DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	3	Ø
	Ø - Ø - TFS-UCTANKBRACKET - TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	3	Ø
1	Ø - Ø - A0034332 - JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	1	Ø
	Ø - Ø - 87-300152-Ø01 - HARDWARE, 5/A BOLTS, TANK FIRE SUPPRESSION.	12	Ø
	Ø - Ø - 87-300033-Ø01 - DIN CONNECTOR, CANFIELD PART #5J560-201-EU0A, TANK FIRE SUPPRESSION, SUBMINATURE SOLENOID CONNECTION (CED VENDOR 30377).	1	Ø
	Ø - Ø - 87-120045-Ø01 - HOSE, SECONDARY ACTUATOR HOSE, 7.5" BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION, SUBMINATURE SOLENOID CONNECTION (CED VENDOR 30377).	2	Ø
	Ø - Ø - DATANKLOCK - DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	3	Ø
	Ø - Ø - 986944115 - HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	6	Ø
	Ø - Ø - 90555455PC - FRO PRESS 1/2 PRESS X PRESS 90 ELBOW LD.	13	Ø
	Ø - Ø - 90973Ø0PC - FRO PRESS PC611 1/2 PRESS TEE LD.	11	Ø
	26 - 26 - QSA-3/8 - QUIK SEAL - 3/8" (UL).	12	Ø
	16 - 16 - 79210 - 1/2" X 3/8" NPT MALE ADAPTER, VIEGA.	12	Ø
	Ø - Ø - 36109) - 3/8" BRASS PLUG.	3	Ø
	Ø - Ø - 79425 - 3/8" NPT FEMALE TO 1/2" MALE PROPRESS ADAPTER.	3	Ø
	Ø - Ø - - - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	Ø
	Ø - Ø - - - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	Ø
	Ø - Ø - 32-ØØØØØ2 - QUIK SEAL - 1/2" (UL).	2	Ø
	Ø - Ø - 87-300030-Ø01 - PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	Ø
	Ø - Ø - 87-300001-Ø01 - TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	3	Ø
	Ø - Ø - 87-120042-Ø01 - SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	2	Ø
	SC-EGVA2 - GAS VALVE - 2" ELECTRICAL SHUTOFF VALVE FOR USE WITH HMI RESET, 110V, 60HZ (#8014280). INCLUDES UPSTREAM STRAINER ASSEMBLY.	1	Ø
2	Ø - Ø - SLPCON-30FT - SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN HOODS WITH UPTO 29' GAP. KIT CONTAINS 32 FEET OF BLACK MG WIRE, 32 FEET OF TAN MG WIRE, 30 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	2	Ø
	Ø - Ø - 87-120045-Ø01 - HOSE, SECONDARY ACTUATOR HOSE, 7.5" BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	1	Ø
	Ø - Ø - 36109) - 3/8" BRASS PLUG.	3	Ø
	Ø - Ø - 79425 - 3/8" NPT FEMALE TO 1/2" MALE PROPRESS ADAPTER.	3	Ø
	Ø - Ø - 87-120042-Ø01 - SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	Ø
	Ø - Ø - B1145 - 3/8" BLACK IRON 90 ELL.	4	Ø
	Ø - Ø - TANK STRAP - TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	6	Ø
	Ø - Ø - 79525 - 1/2" 90 PRO-PRESS ELBOW WITH 1/2"NPT FEMALE CONNECTION, VIEGA.	1	Ø
	Ø - Ø - 79580 - 1/2" X 1/2" PRO-PRESS TEE X 1/2"NPT FEMALE CONNECTION, VIEGA.	2	Ø
	Ø - Ø - 4429K153 - 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	2	Ø
	Ø - Ø - 4429K422 - 1/2" X 1/4" BRASS REDUCING BUSHING.	1	Ø
	Ø - Ø - A31484 - 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES. 1/4" FLARE X 1/4" MPT HALF UNION. USED ON TANK SERVICE PORT.	1	Ø
	Ø - Ø - 12-F28021-32144-OT-360 - DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360°F. (A0034310).	2	Ø
3	Ø - Ø - DATANKLOCK - DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	1	Ø
	Ø - Ø - 986944115 - HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	2	Ø
	Ø - Ø - 90555455PC - FRO PRESS 1/2 PRESS X PRESS 90 ELBOW LD.	4	Ø
	Ø - Ø - 90973Ø0PC - FRO PRESS PC611 1/2 PRESS TEE LD.	1	Ø
	26 - 26 - QSA-3/8 - QUIK SEAL - 3/8" (UL).	2	Ø
	16 - 16 - 79210 - 1/2" X 3/8" NPT MALE ADAPTER, VIEGA.	2	Ø
	Ø - Ø - - - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	Ø
	Ø - Ø - - - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	Ø
	Ø - Ø - 32-ØØØØØ2 - QUIK SEAL - 1/2" (UL).	1	Ø
	Ø - Ø - 87-300030-Ø01 - PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	Ø
	Ø - Ø - 87-300001-Ø01 - TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	1	Ø
	Ø - Ø - B1145 - 3/8" BLACK IRON 90 ELL.	2	Ø
	Ø - Ø - 79525 - 1/2" 90 PRO-PRESS ELBOW WITH 1/2"NPT FEMALE CONNECTION, VIEGA.	1	Ø
	16 - 16 - OL-F - NOZZLE - TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE).	2	Ø
	SC-EGVA1 - GAS VALVE - 1" ELECTRICAL SHUTOFF VALVE FOR USE WITH HMI RESET, 110V, 60HZ (#8014250). INCLUDES UPSTREAM STRAINER ASSEMBLY.	1	Ø

FIRE SYSTEM NO	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
	16 - 16 - OL-F - NOZZLE - TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE).	9	Ø
	34 - 34 - A0034331 - RED COLOR - 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT.	1	Ø
	Ø - Ø - UK-283952-ØØØ - DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	2	Ø
	Ø - Ø - TFS-UCTANKBRACKET - TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	Ø
	Ø - Ø - A0034332 - JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	1	Ø
	Ø - Ø - 87-300152-Ø01 - HARDWARE, 5/A BOLTS, TANK FIRE SUPPRESSION.	8	Ø
	Ø - Ø - 87-300033-Ø01 - DIN CONNECTOR, CANFIELD PART #5J560-201-EU0A, TANK FIRE SUPPRESSION, SUBMINATURE SOLENOID CONNECTION (CED VENDOR 30377).	1	Ø
	Ø - Ø - DATANKLOCK - DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	Ø
	Ø - Ø - 986944115 - HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	4	Ø
	Ø - Ø - 90555455PC - FRO PRESS 1/2 PRESS X PRESS 90 ELBOW LD.	6	Ø
	Ø - Ø - 90973Ø0PC - FRO PRESS PC611 1/2 PRESS TEE LD.	9	Ø
	26 - 26 - QSA-3/8 - QUIK SEAL - 3/8" (UL).	9	Ø
	16 - 16 - 79210 - 1/2" X 3/8" NPT MALE ADAPTER, VIEGA.	9	Ø
	Ø - Ø - - - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	Ø
	Ø - Ø - - - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	Ø
	Ø - Ø - 32-ØØØØØ2 - QUIK SEAL - 1/2" (UL).	2	Ø
	Ø - Ø - 87-300030-Ø01 - PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	Ø
	Ø - Ø - 87-300001-Ø01 - TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	Ø
	Ø - Ø - 87-120042-Ø01 - SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	3	Ø
	SC-EGVA1 - GAS VALVE - 1" ELECTRICAL SHUTOFF VALVE FOR USE WITH HMI RESET, 110V, 60HZ (#8014250). INCLUDES UPSTREAM STRAINER ASSEMBLY.	1	Ø

HMI SCHEDULE				
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #17	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55
FAN #17	HMI #2 - SPACE		AVERAGED	56
FAN #18	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55
FAN #18	HMI #2 - SPACE		AVERAGED	56
FAN #19	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55
FAN #19	HMI #2 - SPACE		AVERAGED	56
FAN #20	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55
FAN #20	HMI #2 - SPACE		AVERAGED	56

FIRE SYSTEM INFORMATION – JOB#8739959

FIRE SYSTEM NO	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1	TANK FS	4.Ø/4.Ø/4.Ø	60	54	FIRE CABINET RIGHT	RIGHT, HOOD 2
2	TANK FS	4.Ø/4.Ø	40	36	WALL UTILITY CABINET RIGHT	N/A
3	TANK FS	4.Ø	20	8	FIRE CABINET RIGHT	RIGHT, HOOD 6

GAS VALVE(S)

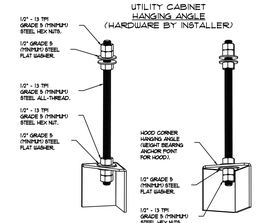
FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	2.ØØØ	CAPTIVEAIRE SYSTEMS
2		SC ELECTRICAL	Ø.75Ø	CAPTIVEAIRE SYSTEMS
3		SC ELECTRICAL	1.ØØØ	CAPTIVEAIRE SYSTEMS

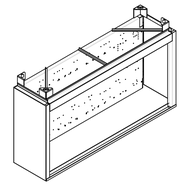
WALL-MOUNT UTILITY CABINET ASSEMBLY INSTRUCTIONS

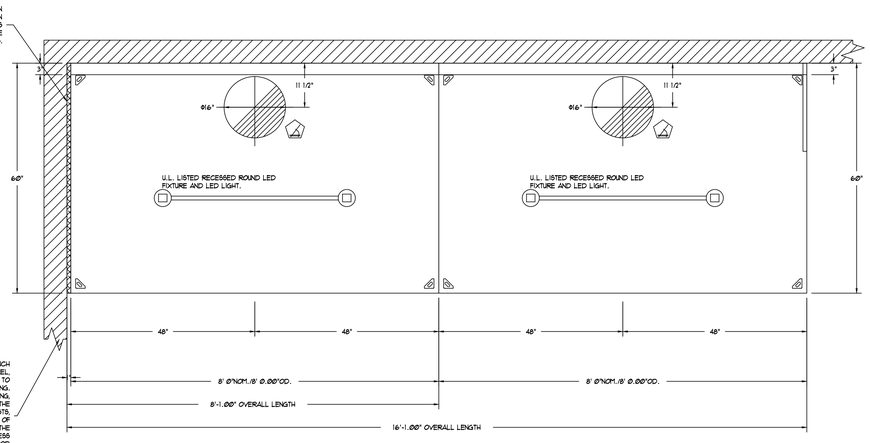
CABINET TO BE HUNG BY OTHERS. SEE UTILITY CABINET SCHEDULE FOR CABINET SIZE.

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH UTILITY CABINET HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

UTILITY CABINET HANGING ANGLE (HARDWARE BY INSTALLER)

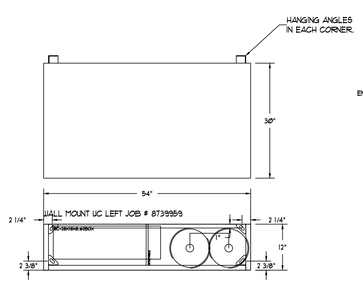


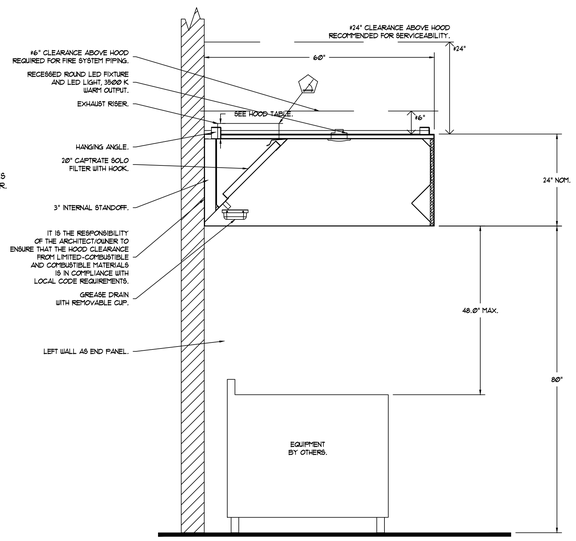




PLAN VIEW – HOOD #4 (H3A)
8' 0.00" LONG 6024ND-2

PLAN VIEW – HOOD #5 (H3B)
8' 0.00" LONG 6024ND-2





SECTION VIEW – MODEL 6024ND-2
HOOD – #4 (H3A)

PVE
1040 N 2200 WEST SALT LAKE CITY UTAH
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350 South 200 East, #106
Salt Lake City, Utah 84111
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DesignUtah.com

HARMONS

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

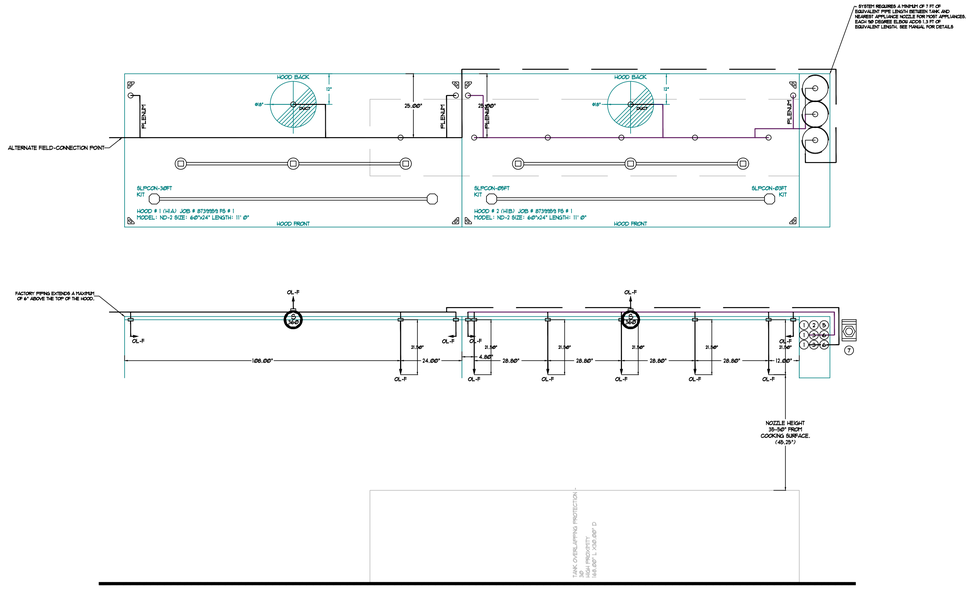
MARK	DATE	DESCRIPTION

DATE:	SEPTEMBER 11, 2026
AGENCY PROJECT NO:	
DESIGN SEQUENCE PROJECT NO:	
PVE PROJECT NO:	26076.00
DRAWN BY:	BNS
CONTACT:	BSPARKS@PVE-UT.COM
DWG TYPE:	
ARCHITECTURAL PHASE:	BID SET

SHEET TITLE

HVAC SCHEDULES

M0.3



NOTES
- FIELD PIPE DROPS AS SHOWN.
  PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PIPE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS PRE-ENGINEERED FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- OL-F NOZZLE PART NUMBER REPLACES 30T0-3/8H-10-SS

JOB #: 8739959.
JOB NAME: HARMONS SPANISH FORK.

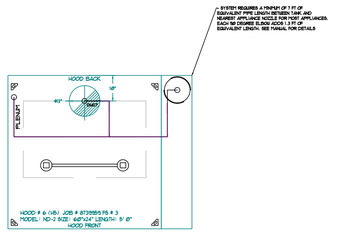
SYSTEM SIZE: TANK-5P-3 DESIGN PP: 54, MAXIMUM PP: 60.
HOOD # 1 11' 0.000" LONG x 60" WIDE x 24" HIGH.
RISER # 1 SIZE: 1.5" DIA.
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.
HOOD # 2 11' 0.000" LONG x 60" WIDE x 24" HIGH.
RISER # 1 SIZE: 1.5" DIA.
HOOD # 2 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

AGENT DISTRIBUTION PIPING LIMITATIONS	
PIPE SECTION	MAX PIPE LENGTH (FT)
MAX SUPPLY LINE TO FIRST OVERLAPPING NOZZLE	42
OVERLAPPING NOZZLE APPLIANCE BRANCH	10
DEDICATED NOZZLE APPLIANCE BRANCH	10

LEGEND – FIRE CABINET TANK SYSTEM

1 4 GALLON TANK.
2 PRIMARY ACTUATOR RELEASE.
3 SECONDARY ACTUATOR RELEASE.
4 PRESSURE SUPERVISION SWITCH.
5 PRIMARY HOSE ASSEMBLY.
6 SECONDARY HOSE ASSEMBLY.
7 REMOTE MANUAL ACTUATION DEVICE.



NOTES
- FIELD PIPE DROPS AS SHOWN.
  PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PIPE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS PRE-ENGINEERED FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- OL-F NOZZLE PART NUMBER REPLACES 30T0-3/8H-10-SS

JOB #: 8739959.
JOB NAME: HARMONS SPANISH FORK.

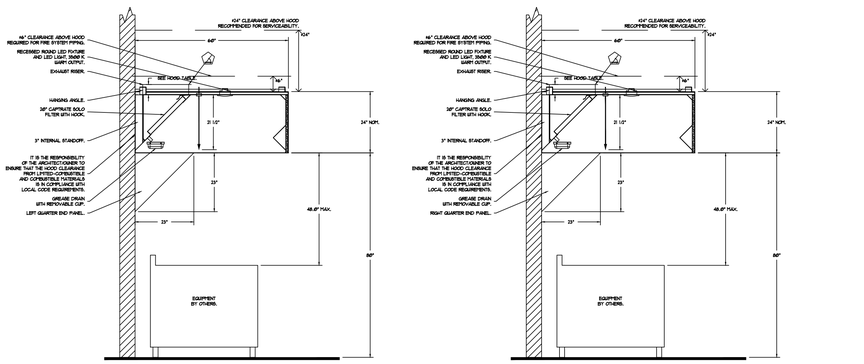
SYSTEM SIZE: TANK-5P-1 DESIGN PP: 8, MAXIMUM PP: 20.
HOOD # 6 5' 0.000" LONG x 60" WIDE x 24" HIGH.
RISER # 1 SIZE: 1.5" DIA.
HOOD # 6 METAL BLOW-OFF CAPS INCLUDED.

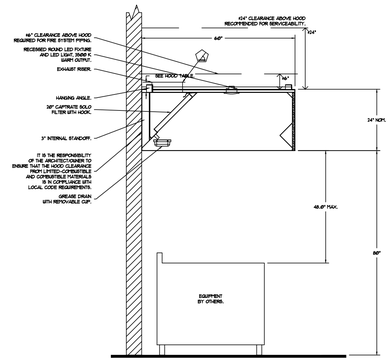
- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

AGENT DISTRIBUTION PIPING LIMITATIONS	
PIPE SECTION	MAX PIPE LENGTH (FT)
MAX SUPPLY LINE TO FIRST OVERLAPPING NOZZLE	42
OVERLAPPING NOZZLE APPLIANCE BRANCH	10
DEDICATED NOZZLE APPLIANCE BRANCH	10

LEGEND – FIRE CABINET TANK SYSTEM

1 4 GALLON TANK.
2 PRIMARY ACTUATOR RELEASE.
3 SECONDARY ACTUATOR RELEASE.
4 PRESSURE SUPERVISION SWITCH.
5 PRIMARY HOSE ASSEMBLY.
6 SECONDARY HOSE ASSEMBLY.
7 REMOTE MANUAL ACTUATION DEVICE.





SECTION VIEW – MODEL 6024ND-2 HOOD – #6

DOAS/RTU FAN SCHEDULE – JOB#8739959

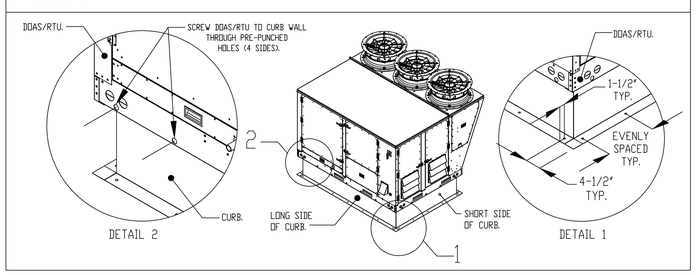
FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	BLOWER	FAN INFORMATION: TOTAL CFM	MAX OUTSIDE AIR CFM	RETURN AIR CFM	WEIGHT (LBS)	ESP	ELECTRICAL INFORMATION: HP	PHASE	VOLT	MCA	MOCP	COOLING INFORMATION: OUTSIDE AIR DB	OUTSIDE AIR WB	MIXED AIR DB	MIXED AIR WB	LEAVING AIR DB	LEAVING AIR WB	CAPACITY DP	CAPACITY TOTAL	CAPACITY SENS.	EER	IEER	REHEAT INFORMATION: DISCHARGE DB	DISCHARGE CAPACITY WB	DISCHARGE CAPACITY DESIRED	DISCHARGE CAPACITY MAX	MOISTURE REMOVAL RATE	GAS HEAT INFORMATION: GAS TYPE	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	HEAT PUMP INFORMATION: ENTERING TEMP	MAX TEMP RISE	DISCHARGE TEMP	COP	CAPACITY	ASC MINIMUM ROOM VOLUME: ROOM AREA (FT2)	AIRFLOW (CFM)	HEIGHT (FT)	NOTES
17	DOAS.1	1	CAS-HVAC3-1.5ND-24-12.5T	CAPTIVEAIRE	3.49P-3-RTU	6000	6000	0	2832	1.000	10.00	3	460	49.5A	60A	100.0°F	65.0°F	100.0°F	65.0°F	50.8°F	47.9°F	45.8°F	256.1 MBH	256.1 MBH	18.3	7.5	70.0°F	58.6°F	189.7 MBH	175.6 MBH	0 LB/HR	NATURAL	606400	490877	75°F	7 IN. W.C. - 14 IN. W.C.	40.0°F	25.0°F	65.0°F	3.4	195.6 MBH	956.2	925	7.2	1.2.3.4.5.6.7.8.15.18.21.23.24.15.16.17.18.15.20.21
18	DOAS.2	1	CAS-HVAC3-1.5ND-24-12.5T	CAPTIVEAIRE	3.49P-3-RTU	4000	4000	0	2421	1.000	5.00	3	460	33A	35A	100.0°F	65.0°F	100.0°F	65.0°F	51.0°F	50.4°F	49.1°F	149.4 MBH	149.4 MBH	21.3	7.1	70.0°F	55.5°F	48.9 MBH	101 MBH	0 LB/HR	NATURAL	442351	356304	80°F	7 IN. W.C. - 14 IN. W.C.	40.0°F	26.0°F	66.0°F	3.9	153.7 MBH	468.5	727	7.2	1.2.3.4.5.6.7.8.15.18.21.23.24.15.16.18.15.20.21.23
19	DOAS.3	1	CAS-HVAC3-1.5ND-24-12.5T	CAPTIVEAIRE	3.49P-3-RTU	4000	4000	0	2421	1.000	5.00	3	460	33A	35A	100.0°F	65.0°F	100.0°F	65.0°F	51.0°F	50.4°F	49.1°F	149.4 MBH	149.4 MBH	21.3	7.1	70.0°F	55.5°F	48.9 MBH	101 MBH	0 LB/HR	NATURAL	442351	356304	80°F	7 IN. W.C. - 14 IN. W.C.	40.0°F	26.0°F	66.0°F	3.9	153.7 MBH	468.5	727	7.2	1.2.3.4.5.6.7.8.15.18.21.23.24.15.16.18.15.20.21.23
20	DOAS.4	1	CAS-HVAC3-1.5ND-24-12.5T	CAPTIVEAIRE	3.49P-3-RTU	4000	4000	0	2421	1.000	5.00	3	460	33A	35A	100.0°F	65.0°F	100.0°F	65.0°F	51.0°F	50.4°F	49.1°F	149.4 MBH	149.4 MBH	21.3	7.1	70.0°F	55.5°F	48.9 MBH	101 MBH	0 LB/HR	NATURAL	442351	356304	80°F	7 IN. W.C. - 14 IN. W.C.	40.0°F	26.0°F	66.0°F	3.9	153.7 MBH	468.5	727	7.2	1.2.3.4.5.6.7.8.15.18.21.23.24.15.16.18.15.20.21.23

NOTES:
1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL
2. DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE
3. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
4. REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE
5. EC MOTOR CONDENSING FANS
6. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE
7. SUCTION LINE ACCUMULATOR
8. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY. 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER
9. AVERAGING RTD'S/E, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
10. 2" EXTERIOR DUAL-SKIN CONSTRUCTION W/ R-13 INSULATION MINIMUM 20GA EXTERIOR W/ 14GA BASE
11. 81% EFFICIENT FURNACE WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 12:1 TURNDOWN WITH NG AND 10:1 TURNDOWN WITH LP
12. 81% EFFICIENT FURNACE WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 15:1 TURNDOWN WITH NG AND 12:1 TURNDOWN WITH LP
13. UNIT SHALL INCLUDE A SERVICE SAFE STOP FEATURE - PROTECTS THE COMPRESSOR FROM DAMAGE DURING SHUTDOWN FOR SERVICE
14. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
15. 8:1 V-TWIN STAGE UNLOADER
17. DOAS DISCHARGE/DOAS RETURN
18. MINIMUM ROOM AREA ASSUMED 7.5' SUPPLY DIFFUSER HEIGHT AND IS CALCULATED PER ULA#1339-2-AD 4TH ED. VALUES BASED ON FACTORY CHARGE. ACTUAL SITE CHARGE MAY DIFFER.
19. UNIT IS OUTFITTED WITH HEAT PUMP WITH SUPPLY AIRFLOW OVER 2600 CFM/TON & OVER 96% OUTDOOR AIR, AND AS A RESULT MAY BE AT RISK OF RUNNING ONLY BACKUP HEAT AT OUTDOOR TEMPERATURES BELOW 35F
20. SCCR RATING OF 10KAPP
21. STANDARD HEAT PUMP OPERATION DOWN TO 40°F MIXED INTAKE TEMPS & 20°F OUTDOOR TEMPS - NOTE: UNIT MAY EXPERIENCE DEFROST CYCLES DEPENDING ON WEATHER CONDITIONS, USE OF BACKUP HEAT HIGHLY RECOMMENDED
22. SIDE DISCHARGE/SIDE RETURN
23. DOAS DISCHARGE/SIDE RETURN

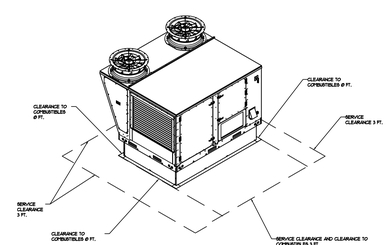
TYPICAL DOAS/RTU ROOF MOUNTING INSTALLATION INSTRUCTIONS

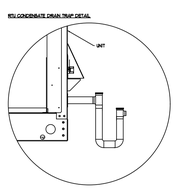
1. SECURE THE CURB TO THE ROOF FRAMING MEMBERS BY DRILLING 1/4" PILOT HOLES IN THE CURB FLANGES AT LOCATIONS SHOWN IN THE DIAGRAM BELOW. USING 3/8" X 2" ZINC PLATED STEEL LAG BOLTS, AND ZINC PLATED WASHERS, SCREW THROUGH THE CURB FLANGES AND INTO THE ROOF FRAMING MEMBERS. A MINIMUM OF (5) LAG BOLTS ON EACH SHORT SIDE, AND (7) LAG BOLTS ON EACH LONG SIDE IS REQUIRED.

2. SECURE THE UNIT BASE TO THE SIDE WALLS OF THE CURB USING (24) 1/4"-14 X 2" SELF-DRILLING, STEEL ZINC PLATED SCREWS. PRE-PUNCHED HOLES HAVE BEEN PROVIDED FOR EACH SCREW LOCATION.



HMI SCHEDULE				
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #1	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55
FAN #1	HMI #2 - SPACE		AVERAGED	56
FAN #2	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55
FAN #2	HMI #2 - SPACE		AVERAGED	56
FAN #3	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55
FAN #3	HMI #2 - SPACE		AVERAGED	56





design Sequence
350 South 200 East, #106
Salt Lake City, Utah 84111
P: 801.596.0691
DesignUtah.com

HARMONS

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 11, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
PVE PROJECT NO: 26076.00

DRAWN BY: BNS
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ARCHITECTURAL PHASE: BID SET

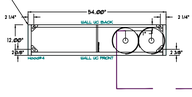
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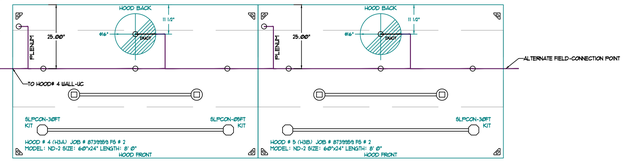
HVAC SCHEDULES

M0.4

PVE
1040 N 2200 WEST SALT LAKE CITY UTAH
T: 801.359.3158 www.pve-ut.com

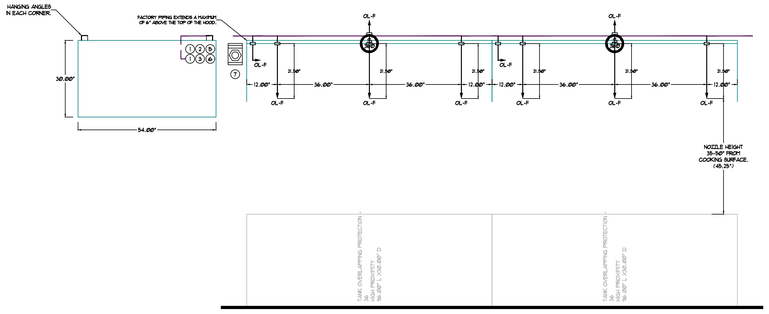
- SYSTEM REQUIRES A MINIMUM OF 7 FT OF EQUIVALENT PIPE LENGTH BETWEEN TANK AND NEAREST APPLIANCE NOZZLE FOR MOST APPLIANCES. EACH 90 DEGREE ELBOW ADDS 1.5 FT OF EQUIVALENT LENGTH. SEE MANUAL FOR DETAILS





LEGEND – FIRE CABINET TANK SYSTEM

1. 4 GALLON TANK.
2. PRIMARY ACTUATOR RELEASE.
3. SECONDARY ACTUATOR RELEASE.
4. PRESSURE SUPERVISION SWITCH.
5. PRIMARY HOSE ASSEMBLY.
6. SECONDARY HOSE ASSEMBLY.
7. REMOTE MANUAL ACTUATION DEVICE.



NOTES
- FIELD PIPE DROPS AS SHOWN
  PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY GAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS PRE-ENGINEERED FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- OL-F NOZZLE PART NUMBER REPLACES 3617Ø-3/8H-1Ø-SS

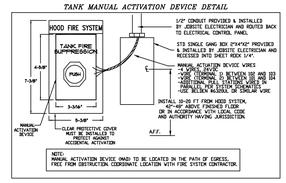
JOB #: 8739959.
JOB NAME: HARMONS SPANISH FORK.

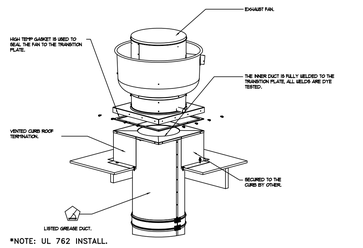
SYSTEM SIZE: TANK-5P-2-4G DESIGN FP: 40, MAXIMUM FP: 40.
HOOD # 4 (4' 0" Ø.Ø0" LONG x 60" WIDE x 24" HIGH.
RISER # 1 SIZE: 16" DIA.
HOOD # 4 METAL BLOW-OFF CAPS INCLUDED.
HOOD # 5 (8' 0" Ø.Ø0" LONG x 60" WIDE x 24" HIGH.
RISER # 1 SIZE: 16" DIA.
HOOD # 5 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

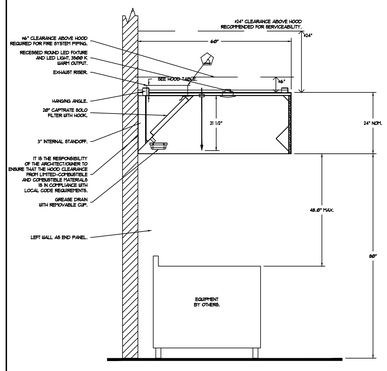
AGENT DISTRIBUTION PIPING LIMITATIONS	
PIPE SECTION	MAX PIPE LENGTH (FT)
MAX SUPPLY LINE TO FIRST OVERLAPPING NOZZLE	42
OVERLAPPING NOZZLE APPLIANCE BRANCH	10
DEDICATED NOZZLE APPLIANCE BRANCH	10

TANK MANUAL ACTIVATION DEVICE DETAIL

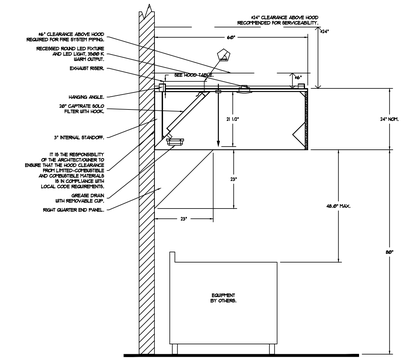




*NOTE: UL 762 INSTALL.



SECTION VIEW – MODEL 6024ND-2 HOOD – #4



SECTION VIEW – MODEL 6024ND-2 HOOD – #5

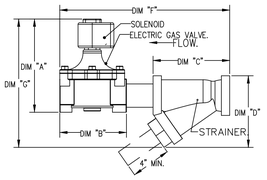
GAS VALVES AND STRAINERS

	GAS VALVE SIZING					GAS VALVE DIMENSIONS						INSTALLATION	PART NUMBERS		
	TYPE	SIZE	VOLTAGE	MINIMUM INLET PRESSURE	MAXIMUM INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"	PIPE ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER KIT
GAS VALVE FOR PS#2---4	ELECTRICAL	3/4"	120 VAC	0 PSI (0 IN.W.C.)	5 PSI (138 IN.W.C.)	563,200 BTU/HR	384,819 BTU/HR	6-15/16"	5-15/16"	4"	4-1/2"	11-15/16"	9-7/8"	HORIZONTAL/VERTICAL	8214235	4419264	(SCE)DV43/4
GAS VALVE FOR PS#3---4	ELECTRICAL	1"	120 VAC	0 PSI (0 IN.W.C.)	5 PSI (138 IN.W.C.)	1,132,300 BTU/HR	734,733 BTU/HR	8-15/16"	5-15/16"	4-7/8"	5-3/16"	13-13/16"	10-11/16"	HORIZONTAL/VERTICAL	8214200	4419265	(SCE)DV41
GAS VALVE FOR PS#1---4	ELECTRICAL	2"	120 VAC	0 PSI (0 IN.W.C.)	5 PSI (138 IN.W.C.)	2,940,500 BTU/HR	1,908,048 BTU/HR	11-5/8"	6-3/8"	7-1/4"	7-13/16"	15-5/8"	13-15/16"	HORIZONTAL/VERTICAL	8214280	4419268	(SCE)DV42

ELECTRIC GAS VALVES ONLY-SOLENOID ORIENTATION
3/4"-2" 120VAC GAS VALVES CAN BE MOUNTED WITH THE SOLENOID IN ANY POSITION AT OR ABOVE HORIZONTAL.
2 1/2"-3" 120VAC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.
240VAC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.

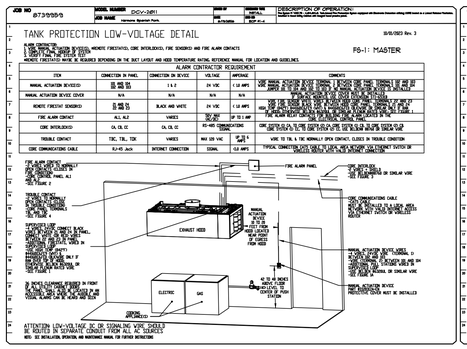
ALL GAS VALVES/STRAINERS
PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS.
A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE SIDE OF THE STRAINER.
CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING.
SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

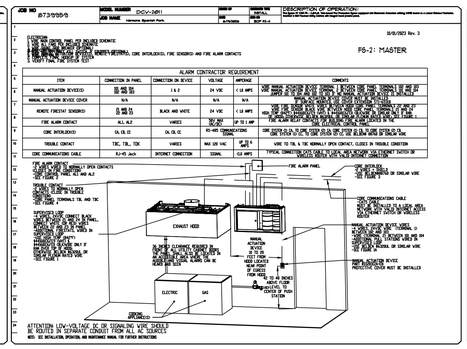
CALCULATIONS
TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP:
NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP^0.5.
TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY:
NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)^0.5.

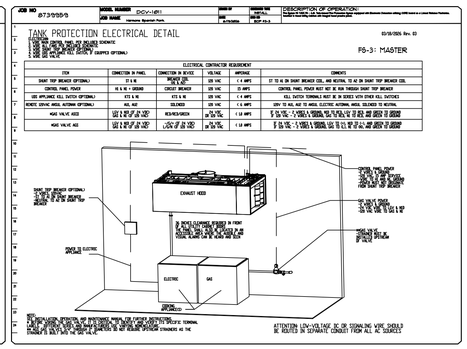


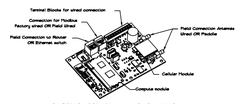
DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:

- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).
- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.
- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.
- VARIABLE FREQUENCY DRIVES (VFDS) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDS BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S) ACTIVATE THE EXHAUST FAN(S) ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
  A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
  B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
  C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  D. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  E. MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION.
  G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KW FROM THE VFDS.









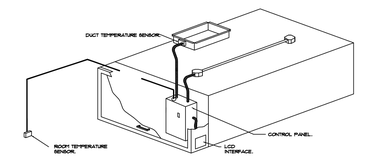
CASLink Monitor and Control

- *Hood control panel is to support communications to cloud-based Building Management System.*
- *Hood Control Panel is allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.*
- *Hood Control Panel is allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.*
- *Hood Control Panel is to support communications to Building Management System to implement SYSTEMS DEMONSTRATED control strategies for fully integrated Building Management.*

MONITORING AND CONTROL POINTS LIST

DCV Packages	Function
Room Temperature	#DUCTTOR
Duct Temperature(s)	#DUCTTOR
RTU Discharge Temperature	#DUCTTOR
Kitchen RTU Discharge Temperature	#DUCTTOR
Fan. Speed	#DUCTTOR
Fan. Amperage	#DUCTTOR
Fan. Power	#DUCTTOR
VFD Faults	#DUCTTOR
Controller Faults	#DUCTTOR
Fan. Faults	#DUCTTOR
Fan. Status	#DUCTTOR
RTU Faults	#DUCTTOR
RTU Filter Dog Percentages	#DUCTTOR
Fire Condition.	#DUCTTOR
CORE Fire System.	#DUCTTOR
Building Pressures	#DUCTTOR
Prep Time Button.	#DUCTTOR & CONTROL
Fans Button.	#DUCTTOR & CONTROL
Lights Button	#DUCTTOR & CONTROL
Vault Button.	#DUCTTOR & CONTROL

DC Packages	Function
Room Temperature(s)	#DUCTTOR
Duct Temperature(s)	#DUCTTOR
RTU Discharge Temperature	#DUCTTOR
Kitchen RTU Discharge Temperature	#DUCTTOR
Controller Faults	#DUCTTOR
Fan. Faults	#DUCTTOR
Fan. Status	#DUCTTOR
RTU Faults	#DUCTTOR
RTU Filter Dog Percentages	#DUCTTOR
Fire Condition	#DUCTTOR
CORE Fire System	#DUCTTOR
Building Pressures	#DUCTTOR
Fans Button(s)	#DUCTTOR & CONTROL
Lights Button(s)	#DUCTTOR & CONTROL
Vault Button.	#DUCTTOR & CONTROL



TYPICAL HOOD CONTROL PANEL INSTALLATION

SEQUENCE OF OPERATIONS:
THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:

- AUTOMATIC:THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD, DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THOSE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC" FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).
- MANUAL:THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
- SCHEDULE:A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE. DURING THIS TIME, DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
- OTHER:THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).
- FIRE: UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.

design Sequence
350 South 200 East, #106
Salt Lake City, Utah 84111
P: 801.596.0691
DESIGNUTAH.COM

HARMONS

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 11, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
PVE PROJECT NO: 26076.00

DRAWN BY: BNS
CONTACT: BSPARKS@PVE-UT.COM
DWG TYPE:
ARCHITECTURAL PHASE: BID SET

SHEET TITLE

HVAC SCHEDULES

M0.5

PVE
1040 N 2200 WEST SALT LAKE CITY UTAH
T: 801.359.3158 www.pve-ut.com

YORK RTU SCHEDULE - R454B

TAG	AREA SERVED	MODEL	TONS	BLOWER CFM SA	BLOWER CFM RA	BLOWER CFM OA	BLOWER % OA	HP	ESP (IWG)	COOLING (95° DB / 62° WB) TEMPERATURE (ºF) ENT. AIR DB	ENT. AIR WB	LVG. AIR DB	LVG. AIR WB	CAPACITY MBH TOTAL	CAPACITY MBH SENS.	EER	EER2	SEER2	IEER	HEAT PUMP CAPACITY (47° F) MBH	CAPACITY (17° F) MBH	TEMP 0 (ºF) ENT. DB	TEMP 0 (ºF) LVG. DB	HEATING (0° F) TEMP (ºF) ENT. DB	TEMP (ºF) LVG. DB	NATURAL GAS MBH IN	NATURAL GAS MBH OUT	ELECTRICAL 460/3 MCA	MOCP	WEIGHT (LBS)
RTU.1	SOUTH SEATING	WP150N24	12.5	5,000	3,924	1,076	21.5	5.75	0.75"	79.3	58.1	51	46	143.5	129.2	10.60			15.1	148	83.9	55	64.2	55	89.7	196.1	158.5	36.4	45	1,753
RTU.2	ELEVATOR SEATING	KB102N18	8.5	3,400	2,575	825	24.3	3.0	0.75"	79.9	58.1	50.6	45.9	96.7	90.9	12.4			16.0					53.2	91.6	147.1	119.3	24.2	30	1,389
RTU.3	MEZZ. OFFICES	KJ061N08	5.0	2,000	1,800	200	10.0	2.0	1.0"	77	57	48.6	44.9	61.5	51.9		12.5	16						63	92.1	65.4	53.1	15	20	1,075
RTU.4	BREAK / RESTROOMS	KJ049N08	4.0	1,600	1,405	195	12.2	1.5	1.0"	77.4	57	49.7	46.1	44.5	40.5		12.3	14.7						60.9	97.3	65.4	53.1	11.6	15	1,016
RTU.5	PHARMACY	KT049N08	4.0	1,600	1,315	285	17.8	1.5	1.0"	78.6	57.4	48.7	45.1	47.8	43.7		13.4	16.4						57.5	93.9	65.4	53.1	16.6	20	1,265
RTU.6	NE SALES	KV25S3CT4	25.0	10,000	9,380	620	6.2	7.5	0.75"	76.2	57	52.6	47.1	256.8	215.8	10			14.2					65.1	94.1	326.8	264.7	56.7	70	2,675
RTU.7	NW SALES	KV25S3CT4	25.0	10,000	9,400	600	6.0	7.5	0.75"	76	57	52.8	47.2	256.8	215.8	10			14.2					65.1	94.1	326.8	264.7	56.7	70	2,675
RTU.8	CHECKSTANDS	KW20S3DQ4	20.0	8,000	7,300	700	8.8	7.5	0.75"	76.6	57	51.3	47	208.3	184.8	12.1			19.5					64.4	100.6	326.8	264.7	67.2	90	2,860
RTU.9	SE SALES	KJ150N24R	12.5	5,000	4,115	885	17.7	5.0	1.0"	78.5	57.4	49.5	45	156.0	132.3	12.0			15.2					57.4	92.1	196.1	158.5	34.4	40	1,633
RTU.10	SW SALES	KW18S3CQ4	17.5	7,000	5,980	1,020	14.6	5.3	0.75"	77.9	57.2	51.7	47.1	176.9	167.6	12.2								59.8	101.2	326.8	264.7	53.1	70	2,790

RTU IECC CALCULATIONS

TAG	AREA SERVED	EQUIP. TONS	HP	DX / NATURAL GAS UNITS HOT GAS BYPASS C403.3.3	TOTAL EQUIP. CAPACITY	IECC 403.3.3.2.1 MIN. IEER	EQUIP. IEER	EFFICIENCY IMPROVEMENT	EER	EER2	IECC 403.3.3.2.1 MIN. SEER2	EQUIP. SEER2	EFFICIENCY IMPROVEMENT	HEAT PUMP IECC 403.3.3.2.2 SEER2 / IEER	EQUIP. SEER2 / IEER	EFFICIENCY IMPROVEMENT	TEMP 0 (ºF) COP 47ºF	TEMP 0 (ºF) COP 17ºF	REFRIGERATION DETECTION	CO2 REQUIRED	HEATING (0° F) NATURAL GAS EFF. %	HEATING (0° F) NATURAL GAS STAGES
RTU.1	SOUTH SEATING	12.5	5.75	<50%	143.5				10.60					13.3	15.1	13.53	3.3	2.2	EACH RTU HAS A FACTORY REFRIGERATION DETECTOR. NONE REQUIRE ACTIVATION DUE TO VOLUME OF AREAS SERVED	YES	81	2
RTU.2	ELEVATOR SEATING	8.5	3.0	NONE	96.7	14.6	16	9.59	12.4											NO		
RTU.3	MEZZ. OFFICES	5.0	2.0		61.5					12.5	13.4	16	19.40									
RTU.4	BREAK / RESTROOMS	4.0	1.5		44.5					12.3	13.4	14.7	9.70									
RTU.5	PHARMACY	4.0	1.5		47.8					13.4	13.4	16.4	22.39									
RTU.6	NE SALES	25.0	7.5	<25%	256.8	13.0	14.2	9.23	10													
RTU.7	NW SALES	25.0	7.5		256.8	13.0	14.2	9.23	10													
RTU.8	CHECKSTANDS	20.0	7.5	<50%	208.3	14.0	19.5	39.29	12.1													
RTU.9	SE SALES	12.5	5.0		156.0	14.0	15.2	8.57	12.0													
RTU.10	SW SALES	17.5	5.3		176.9	14.0	18.8	34.29	12.2													

AIR BALANCE SCHEDULE - "OCCUPIED MODE"

EQUIPMENT	AREA SERVED	SUPPLY CFM	RETURN CFM	OUTSIDE CFM	EXHAUST CFM	COMMENTS
RTU.1	SOUTH SEATING	5,000	3,924	1,076		
RTU.2	ELEVATOR SEATING	3,400	2,575	825		
RTU.3	MEZZ. OFFICES	2,000	1,800	200		
RTU.4	BREAK / RESTROOMS	1,600	1,405	195		
RTU.5	PHARMACY	1,600	1,315	285		
RTU.6	NE SALES	10,000	9,380	620		
RTU.7	NW SALES	10,000	9,400	600		
RTU.8	CHECKSTANDS	8,000	7,300	700		
RTU.9	SE SALES	5,000	4,115	885		
RTU.10	SW SALES	7,000	5,980	1,020		
EF.1A	DELI HOOD				-2,475	
EF.1B					-2,475	
EF.2	WASH ROOM				-900	
DOAS.1	DELI / WASH ROOM	6000	375	5,625		
EF.3A	BURGER HOOD				-1,925	
EF.3B					-1,925	
DOAS.2	BURGERS	4000	400	3,600		
EF.4	BAKERY - PAN WASHER				-800	
EF.11	BAKERY OVEN				-1,472	
EF.12	BAKERY OVEN				-1,472	
DOAS.3	BAKERY	4000	400	3,600		
EF.5	MEAT HOOD				-1,125	
EF.6	MEAT - PAN WASHER				-800	
EF.7	RX RESTROOM				-250	
EF.8	LEVEL 1 RESTROOMS				-800	
EF.9	MEZZ. RESTROOMS				-750	
EF.10	BREAKROOM				-100	
EF.13	REFRIGERATION - VENTILATION				-410	EXCLUDED FROM CALCS AS AIR COMES A DEDICATED LOUVERED PENTHOUSE
EF.14	REFRIGERATION - EMERGENCY				-3960	
DOAS.4	ENTRY	4000	0	4,000		
		71,600	48,369	23,231	-17,269	
		SPLIT SYSTEM OUTSIDE AIR REQUIREMENTS			435	SEE LOADS / SPLIT SYSTEM SCHEDULE
			PRESSURIZATION		5,527	SEE M1.1 FOR BUILDING RELIEF

AIR BALANCE SCHEDULE - "UNOCCUPIED MODE"

EQUIPMENT	AREA SERVED	SUPPLY CFM	RETURN CFM	OUTSIDE CFM	EXHAUST CFM	COMMENTS
RTU.1	SOUTH SEATING	5,000	3,924	1,076		
RTU.2	ELEVATOR SEATING	3,400	2,575	825		
RTU.3	MEZZ. OFFICES	2,000	1,800	200		
RTU.4	BREAK / RESTROOMS	1,600	1,405	195		
RTU.5	PHARMACY	1,600	1,315	285		
RTU.6	NE SALES	10,000	9,380	620		
RTU.7	NW SALES	10,000	9,400	600		
RTU.8	CHECKSTANDS	8,000	7,300	700		
RTU.9	SE SALES	5,000	4,115	885		
RTU.10	SW SALES	7,000	5,980	1,020		
DOAS.1	DELI / WASH ROOM	4000	3765	235		
DOAS.2	BURGERS	2800	2640	160		
DOAS.3	BAKERY	4000	3620	380		
EF.7	RX RESTROOM				-250	
EF.8	LEVEL 1 RESTROOMS				-800	
EF.9	MEZZ. RESTROOMS				-750	
EF.10	BREAKROOM				-100	
DOAS.4	ENTRY	4000	0	4,000		
		68,400	57,219	11,181	-1,900	
		SPLIT SYSTEM OUTSIDE AIR REQUIREMENTS			435	SEE LOADS / SPLIT SYSTEM SCHEDULE
			PRESSURIZATION		8,846	SEE M1.1 FOR BUILDING RELIEF

RTU NOTES:

- PROVIDE WITH DISCONNECT SWITCH
- PROVIDE WITH UN-POWERED 115V CONVENIENCE OUTLET
- PROVIDE WITH 24" INSULATED CURB
- PROVIDE HIGH ELEVATION KIT FOR NATURAL GAS
- PROVIDE W/ RAWAL VALVE
- SINGLE ENTHALPY ECONOMIZER W/ MOTORIZED DAMPERS. SEE ECONOMIZER NOTES.
- PROVIDE ADDRESSABLE SMOKE DETECTORS FOR INSTALLATION IN RETURN DUCT. DUCT CONNECTIONS BY MC. ELECTRICAL CONNECTIONS BY FACC. UNIT IS TO SHUT DOWN UPON SMOKE DETECTOR ACTIVATION. CONNECTIONS TO FIRE ALARM CONTROL PANEL BY FACC.
- BUILDING AUTOMATION SYSTEM SHALL PROVIDE 7 DAY PROGRAMMABLE SETTINGS WITH AUTO CHANGEOVER, 5 ° DEAD-BAND, SETBACKS (55° / 85°) 2 HOUR OCCUPANT OVERRIDE, 1Ø HOUR BACK-UP.
- C403.4.1.3: THERMOSTATIC CONTROLS SHALL ALLOW INDEPENDENT CONTROL OF HEATING AND COOLING SET-POINTS EXCEPT AS NEEDED TO MAINTAIN THE MINIMUM DEAD BAND IN C403.4.1.2. WHERE DISPLAYED, HEATING / COOLING SET-POINTS AND ACTIVE MODE SHALL BE EVIDENT.
- PROVIDE WITH FACTORY FILTER BANK AND REPLACEABLE FILTERS.
- PROVIDE CONDENSATE DRAIN WITH MINIMUM 3" DEEP TRAP
- PROVIDE W/ PHASE MONITOR
- MC SHALL ENGAGE A FACTORY-PROVIDED SERVICE REPRESENTATIVE TO INSPECT, TEST, AND ADJUST RTUS AND COMPONENTS TO ENSURE PROPER INSTALLATION.
- MANUFACTURER-PROVIDED SERVICE REPRESENTATIVE SHALL BE REQUIRED TO INSPECT EACH RTU AS IT IS POWERED W/ THE UNDERSTANDING THAT EACH RTU MAY BE POWERED AT DIFFERENT TIMES REQUIRING MULTIPLE SITE VISITS FOR EQUIPMENT INSPECTIONS.
- MANUFACTURER-PROVIDED SERVICE REPRESENTATIVE SHALL PROVIDE THE OWNER / G.C. WITH WRITTEN DOCUMENTATION THAT ALL INSTALLATIONS ARE COMPLETE AND ACCURATE PER MANUF. STANDARDS. REFER TO SPEC 237413 FOR ADDITIONAL REQUIREMENTS.
- COORDINATE VFD INSTALLATION WITH E.C.
- SUBMITTALS SHALL INCLUDE FAN ENERGY INDEX DATA PER IECC C408.3.3

ECONOMIZER NOTES:
2024 IECC C403.5:

ECONOMIZER SYSTEMS SHALL BE INTEGRATED WITH THE HVAC COOLING SYSTEM AND BE CONFIGURED TO PROVIDE PARTIAL COOLING EVEN WHERE ADDITIONAL MECH. COOLING IS REQUIRED TO PROVIDE THE REMAINDER OF THE COOLING LOAD. CONTROLS SHALL NOT BE CAPABLE OF CREATING A FALSE LOAD IN THE COOLING SYSTEM BY LIMITING OR DISABLING THE ECONOMIZER OR ANY OTHER MEANS - SUCH AS HOT GAS BYPASS - UNLESS AT THE LOUEST STAGE OF COOLING.

UNITS THAT INCLUDE AN AIR ECONOMIZER SHALL COMPLY WITH THE FOLLOUING:
1. UNIT CONTROLS SHALL HAVE THE COOLING CAPACITY CONTROL INTERLOCKED WITH THE ECONOMIZER CONTROLS SUCH THAT THE OUTDOOR AIR DAMPER IS AT THE 100% OPEN POSITION WHEN MECH. COOLING IS "ON" AND THE OUTSIDE AIR DAMPER DOES NOT BEGIN TO CLOSE TO PREVENT COIL FREEZING DUE TO MIN. COMPRESSOR RUN TIME UNTIL THE L.A.T. IS LESS THAN 45° F.
2. DX UNITS THAT CONTROL 75,000 BTU/H OR GREATER OF RATED CAPACITY OF THE CAPACITY OF THE MECH. COOLING DIRECTLY BASED ON OCCUPIED SPACE TEMP. SHALL NOT HAVE FEWER THAN 2 STAGES OF MECH. COOLING CAPACITY.
3. DX UNITS, INCLUDING THOSE THAT CONTROL SPACE TEMP. BY MODULATING THE AIRFLOW TO THE SPACE, SHALL BE IN ACCORDANCE WITH TABLE C403.5.1.

C403.5.2: ECONOMIZER CONTROLS SHALL BE SUCH THAT ECONOMIZER OPERATION DOES NOT INCREASE BUILDING HEATING ENERGY USE DURING NORMAL OPERATION.
C403.5.3.1: ECONOMIZER SHALL BE CONFIGURED TO MODULATE A.O. AND R.A. DAMPERS TO PROVIDE UP TO 100% OF THE DESIGN SUPPLY AIR QUANTITY AS O.A. FOR COOLING.
C403.5.3.2: ECONOMIZER CONTROLS AND DAMPERS SHALL BE CONFIGURED TO SEQUENCE THE DAMPERS W. THE MECH. COOLING EQUIP. AND SHALL NOT BE CONTROLLED BY ONLY MIXED-AIR TEMP.
--EXCEPTION: SINGLE ZONE SYSTEMS MAY USE MIXED AIR TEMP.
C403.5.3.3: ECONOMIZERS SHALL BE CONFIGURED TO AUTOMATICALLY REDUCE OUTDOOR AIR INTAKE TO THE DESIGN MIN. O.A. QUANTITY WHEN OUTDOOR AIR INTAKE WILL NOT REDUCE COOLING ENERGY USAGE. HIGH-LIMIT SHUTOFF CONTROL TYPES FOR SPECIFIC CLIMATES SHALL BE CHOSEN FROM TABLE C403.5.3.3.
C403.5.3.4: SYSTEMS SHALL PROVIDE ONE OF THE FOLLOWING MEANS TO RELIEVE EXCESS OUTDOOR AIR DURING ECONOMIZER OPERATION TO PREVENT OVER-PRESSURIZING THE BUILDING:
1. RETURN OR RELIEF FANS MEETING THE REQUIREMENTS OF C403.11.1
2. BAROMETRIC OR MOTORIZED DAMPER RELIEF PATH WITH A TOTAL PRESSURE DROP AT A DESIGN RELIEF AIRFLOW RATE LESS THAN 0.10" W.C. FROM THE OCCUPIED SPACE TO THE OUTDOORS. DESIGN RELIEF AIRFLOW RATE SHALL BE THE DESIGN SUPPLY AIRFLOW RATE MINUS ANY CONTINUOUS EXHAUST FLOWS, SUCH AS TOILET EXHAUST FANS, WHOSE MAKE-UP IS PROVIDED BY THE ECONOMIZER SYSTEM. THE RELIEF AIR OUTLET SHALL BE LOCATED TO AVOID RE-CIRCULATION INTO THE BUILDING.
C403.5.3.5: RETURN, EXHAUST / RELIEF, AND OUTDOOR AIR DAMPERS IN ECONOMIZERS SHALL COMPLY WITH C403.7.7.
C403.5.5: FAULT DETECTION / DIAGNOSTICS INSTALLED W/ AIR COOLED UNITARY DX / VRF UNITS W/ ECONOMIZERS. SEE IECC FOR COMPLETE LIST OF REQUIREMENTS.
C408.2.3.3: ECONOMIZERS SHALL BE TESTED TO ENSURE PROPER OPERATION.

VVT SYSTEM NOTES:

- CONTRACTOR SHALL PROVIDE A FULLY FUNCTIONING VARIABLE VOLUME / TEMPERATURE SYSTEM. ZONE SYSTEM SHALL BE INSTALLED COMPLETE WITH MOTORIZED DAMPERS, CENTRAL CONTROL PANEL (CCP), STEP-DOUN TRANSFORMER, ACTUATORS FOR ALL MOTORIZED DAMPERS, AND CONNECTIONS TO BAS.
- ALL WIRING FROM TRANSFORMERS TO MECHANICAL COMPONENTS (DAMPERS, CCP, STATS, ADDER-PANELS AND RTU) TO BE PROVIDED / INSTALLED BY M.C.
- PROVIDE / INSTALL MOTORIZED DAMPERS SO THEY ARE ACCESSIBLE FROM LAY-IN CEILING.
- M.C. SHALL INSTALL BYPASS DUCT BETUEEN SUPPLY / RETURN DROP W/ BAROMETRIC BYPASS DAMPER.
- SYSTEM SHALL HAVE THE CAPACITY TO CONTROL NO LESS THAN 5 ZONES. PROVIDE ADDER-PANELS AS REQUIRED. COORDINATE LOCATION WITH E.C.
- ALL CONTROL PANELS AND TRANSFORMERS SHALL BE ACCESSIBLE AND CLEARLY LABELED TO INDICATE WHICH SYSTEM THEY SERVE.
- CONTRACTOR TO COORDINATE FINAL SETTINGS OF ALL STATS W/ OUNER PRIOR TO PROJECT COMPLETION.

AIR DEVICE SCHEDULE

PLAN CODE	SIZE	NECK	DUTY	INSTALL TYPE	MAX CFM	MAX N.C.	150-100-50	MANUFACTURER	MODEL	COMMENTS
1	12" X 12"	10" X 10"	EXHAUST / RETURN	GYP	625	29	N/A	PRICE	PDR	HINGED, REMOVABLE PERFORATED FACE PLATE FOR ACCESS TO RADIAL BALANCING DAMPER. PROVIDE TRANSITIONS.
2	12" X 12"	8"Ø	SQUARE SUPPLY	LAY-IN	314	30	6'-9'-14'		SPD	R6 INSULATED BACKPAN. REMOVABLE FACE FOR ACCESS TO RADIAL BALANCING DAMPER.
3	24" X 24"	8"Ø	SQUARE SUPPLY		349	27	4'-6'-10'			
4	24" X 24"	10"Ø	SQUARE SUPPLY		545	30	5'-8'-12'			
5	24" X 24"	12"Ø	SQUARE SUPPLY		707	29	6'-9'-14'			
6	12" X 24"	10" X 22"	RETURN / EXHAUST		917	20	N/A		PDR	HINGED, REMOVABLE PERFORATED FACE PLATE FOR ACCESS TO RADIAL BALANCING DAMPER. PROVIDE TRANSITIONS.
7	24" X 24"	6"Ø	SQUARE SUPPLY		118	-	2'-3'-5'		SPD	R6 INSULATED BACKPAN. REMOVABLE FACE FOR ACCESS TO RADIAL BALANCING DAMPER.
8	24" X 24"	22" X 22"	PERF. RETURN / LAMINAR SUPPLY		2,353	26	N/A		PDR	HINGED, REMOVABLE PERFORATED FACE PLATE FOR ACCESS TO RADIAL BALANCING DAMPER. PROVIDE REQUIRED TRANSITIONS.
9	12" X 12"	6"Ø	SQUARE SUPPLY	GYP	196	27	5'-7'-11'		SPD	R6 INSULATED BACKPAN. REMOVABLE FACE FOR ACCESS TO RADIAL BALANCING DAMPER.
10	24" X 24"	8"Ø	SQUARE SUPPLY	LAY-IN		NTE 15	6'-4'-3'		VBD	COORDINATE TEMP. SETTINGS (68-80) WITH STORE PERSONNEL
11	81.75" X 94.25"	47 7/8" X 47 7/8"	DROP-BOX	EXPOSED	11,200	38	56'-83'-117'		DBH-6WAY-40T	ADJUST DRUM LOUVERS TO AVOID DISTURBANCE OF DÉCOR AND TO PROVIDE UNIFORM DISTRIBUTION - PRIOR TO BALANCE.
12	56.25" X 56.25"	39 7/8" X 39 7/8"			5,400	24	40'-61'-100'		DBH-4WAY-30T	
13	30" x 4"	N/A	DRUM LOUVER	SPIRAL DUCT	600	30	33'-42'-60'		HCD	SPLIT BLADE STEEL. UP TO 60 DEGREE ROTATION. PROVIDE W/ POLE OPERATOR BRACKET FOR REMOTE ACCESS AND OPPOSED BLADE DAMPER. SPIRAL DUCT MOUNT. SEE M1.1 FOR DUCT SIZES.
14	36" X 4"				800	31	37'-45'-64'			
15	42" X 6"				1,050	23	41'-52'-73'			
16	24" X 24"		TRANSFER	WALL	2,888	28	N/A		80	MILL FINISH FOR PAINT BY G.C. PROVIDE REQUIRED TRANSITIONS.

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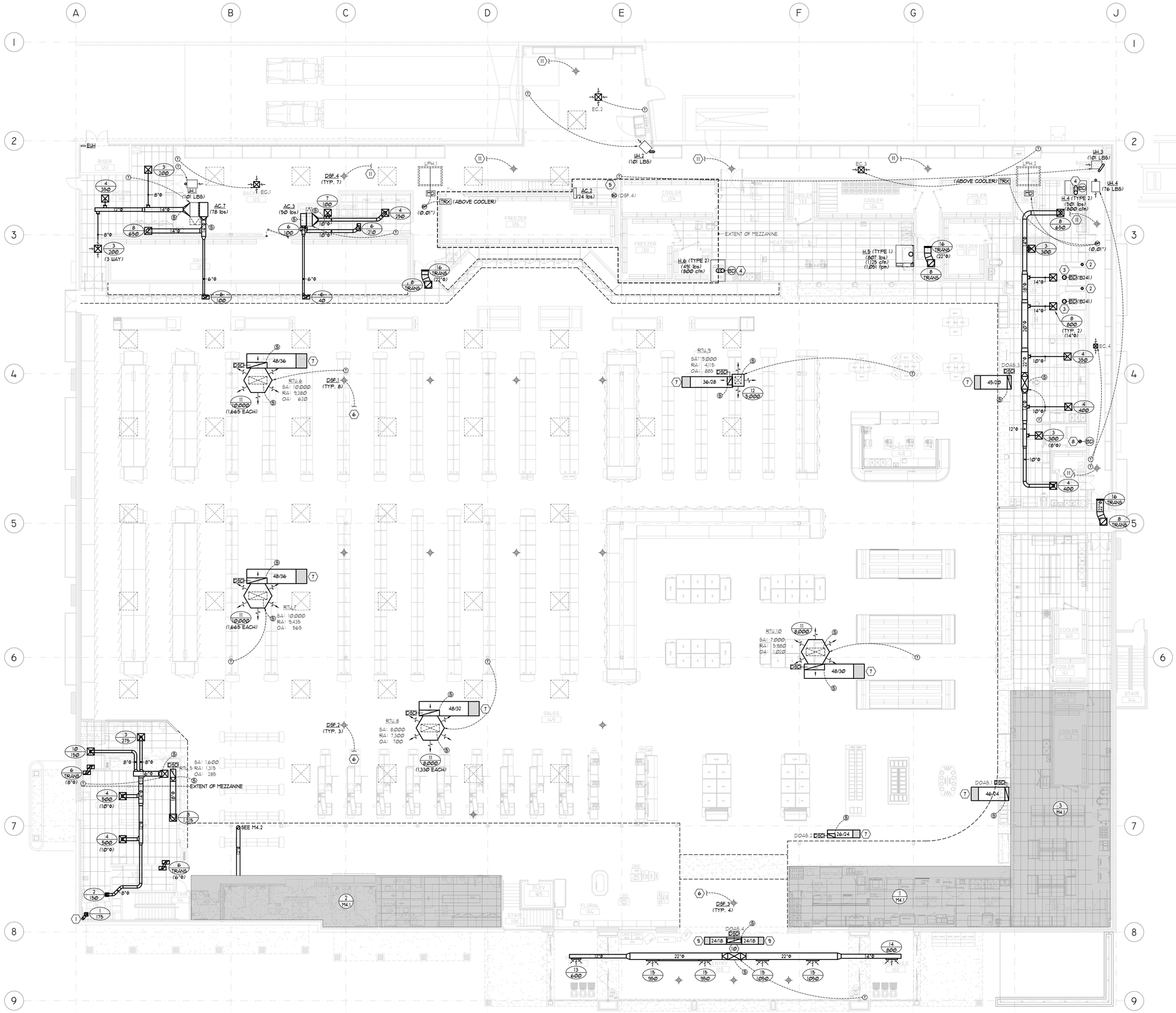
MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 11, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
PVE PROJECT NO: 26076.00
DRAWN BY: BNS
CONTACT: BSPARKS@PVE-UT.COM
DWG TYPE:
ARCHITECTURAL PHASE: BID SET
SHEET TITLE

HVAC SCHEDULES

PVE
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M0.6



1 M1.1 **MECHANICAL FLOOR PLAN**

SCALE: 3/32" = 1' - 0"

6' 0 4' 8' 12' 16'

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KEYED NOTES:

1. 8"Ø EXHAUST RISER. SEE 1, M4.2.
2. DIRECTLY FROM TOP OF OVEN CONNECT 8" TEE AND INSTALL BAROMETRIC DAMPER. ABOVE THIS DAMPER, INSTALL DRAFT INDUCER INTO 8" SINGLE WALL COMBUSTION EXHAUST PIPE. RUN 8" TYPE "B" VENT FROM TOP OF DRAFT INDUCER AND CONTINUE THROUGH ROOF. NO MORE THAN 2 ELBOWS OF 45° ALLOWED. TERMINATE W/ WEATHER-PROOF CAP.
3. 14"Ø DUCT THROUGH ROOF. OFFSET AS REQUIRED TO CLEAR JOISTS. SEE M2.1.
4. 12"Ø STAINLESS / ALUMINUM DUCT THROUGH ROOF. SEE M2.1. SLOPE OFFSET BACK TOWARDS HOOD.
5. 1" UNDERCUT OF DOOR BY G.C. FOR TRANSFER AIR. SEE AIR BALANCE SCHEDULE.
6. INSTALL SPEED CONTROLLER FOR FAN GROUP AT CUSTOMER SERVICE. SEE M4.1.
7. ROUTE BETWEEN JOISTS.
8. ROUTE 9"Ø ALUMINUM / STAINLESS DUCT FROM FACTORY EXTRACTOR THROUGH ROOF. PROVIDE STAINLESS / ALUMINUM BACK-DRAFT DAMPER. SLOPE DUCT BACK TOWARDS EQUIPMENT.
9. ROUTE TIGHT TO STRUCTURE.
10. OFF-SET DUCT DROPS APPROX. 30" FOR DUCTS TO DROP IN CENTER OF SPACE.
11. INSTALL SPEED CONTROLLER FOR FAN GROUP IN DSD OFFICE.

GENERAL NOTES:

1. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS, AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
2. CONTRACTOR SHALL ENSURE THAT ALL VENTS AND EXHAUSTS ARE A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKE / BUILDING OPENINGS. ANY REQUIRED OFF-SETS SHALL OCCUR BELOW THE ROOF STRUCTURE.
3. PROVIDE RADIUS FITTINGS WITH TURNING VANES AT ALL TRANSITIONS GREATER THAN 45° IN RECTANGULAR DUCTS.
4. RTU SMOKE DETECTORS SHALL BE FIELD-TESTED BY M.C. TO ENSURE PROPER OPERATION.
5. DUCT-MOUNTED TEMPERATURE SENSORS ARE TO BE PROVIDED BY CONTROLS CONTRACTOR, INSTALLED BY M.C.

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ARCHITECTURAL PHASE:	BID SET

SHEET TITLE

MECHANICAL FLOOR PLAN

M1.1

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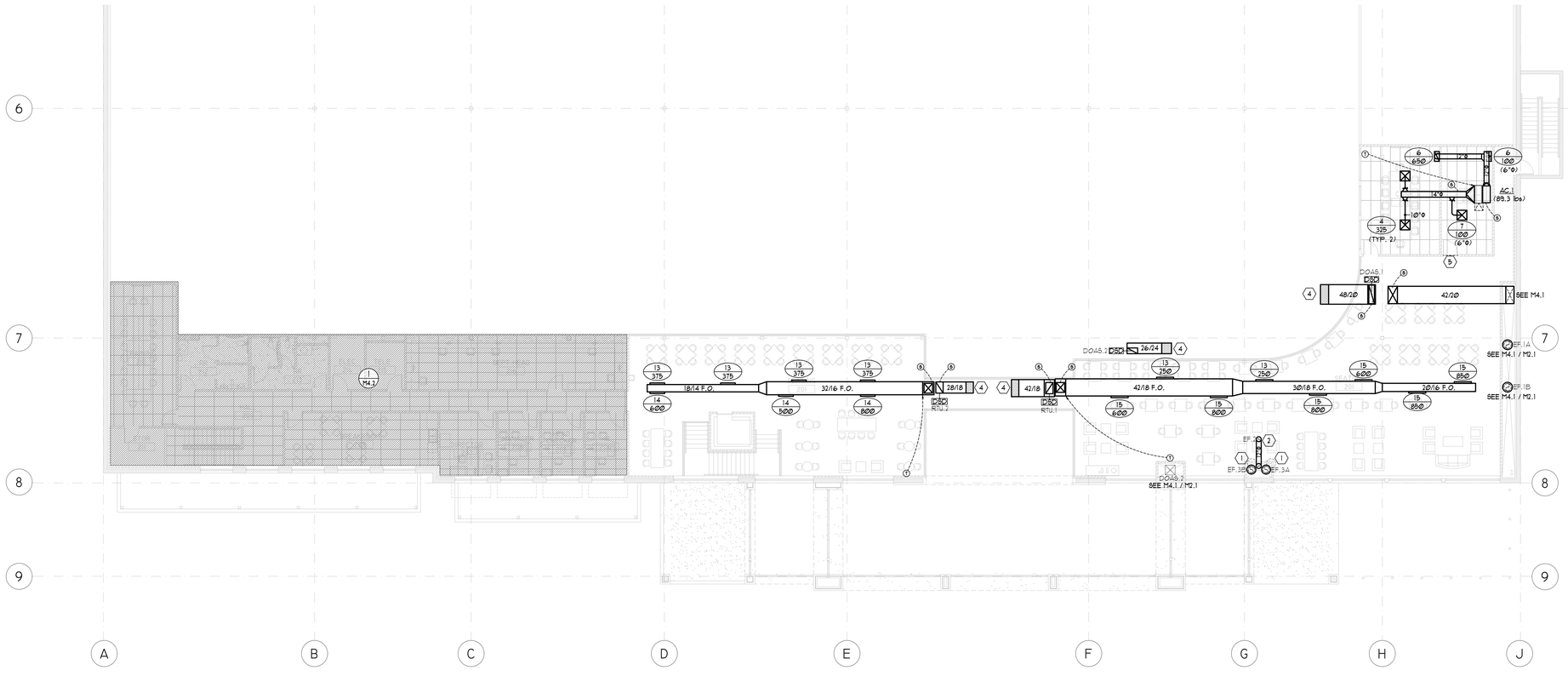
design
Sequence
350 SOUTH 200 EAST, #106
SALT LAKE CITY, UTAH 84111
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KEYED NOTES:

1. OFFSET GREASE DUCT TO CLEAR PARAPET WALL ABOVE. SEE M2.1.
2. ROUTE DUCT TIGHT TO STRUCTURE.
3. LINED DUCT FROM DOAS.2. SEE M4.1 FOR CONTINUATION.
4. ROUTE DUCT BETWEEN JOISTS.
5. 1" UNDERCUT OF DOOR BY G.C. FOR TRANSFER AIR. SEE AIR BALANCE SCHEDULE.

GENERAL NOTES:

1. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS, AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
2. CONTRACTOR SHALL ENSURE THAT ALL VENTS AND EXHAUSTS ARE A MINIMUM OF 10'-00" FROM ANY FRESH AIR INTAKE / BUILDING OPENING. ANY REQUIRED OFF-SETS SHALL OCCUR BELOW THE ROOF STRUCTURE.
3. PROVIDE RADIUS FITTINGS WITH TURNING VANES AT ALL TRANSITIONS GREATER THAN 45° IN RECTANGULAR DUCTS.
4. RTU SMOKE DETECTORS SHALL BE FIELD-TESTED BY M.C. TO ENSURE PROPER OPERATION.
5. DUCT-MOUNTED TEMPERATURE SENSORS ARE TO BE PROVIDED BY CONTROLS CONTRACTOR, INSTALLED BY M.C.



1 M1.2 MECHANICAL FLOOR PLAN - MEZZANINE

SCALE: 3/32" = 1' - 0" 6' 0 4' 8' 12' 16'

N E S W

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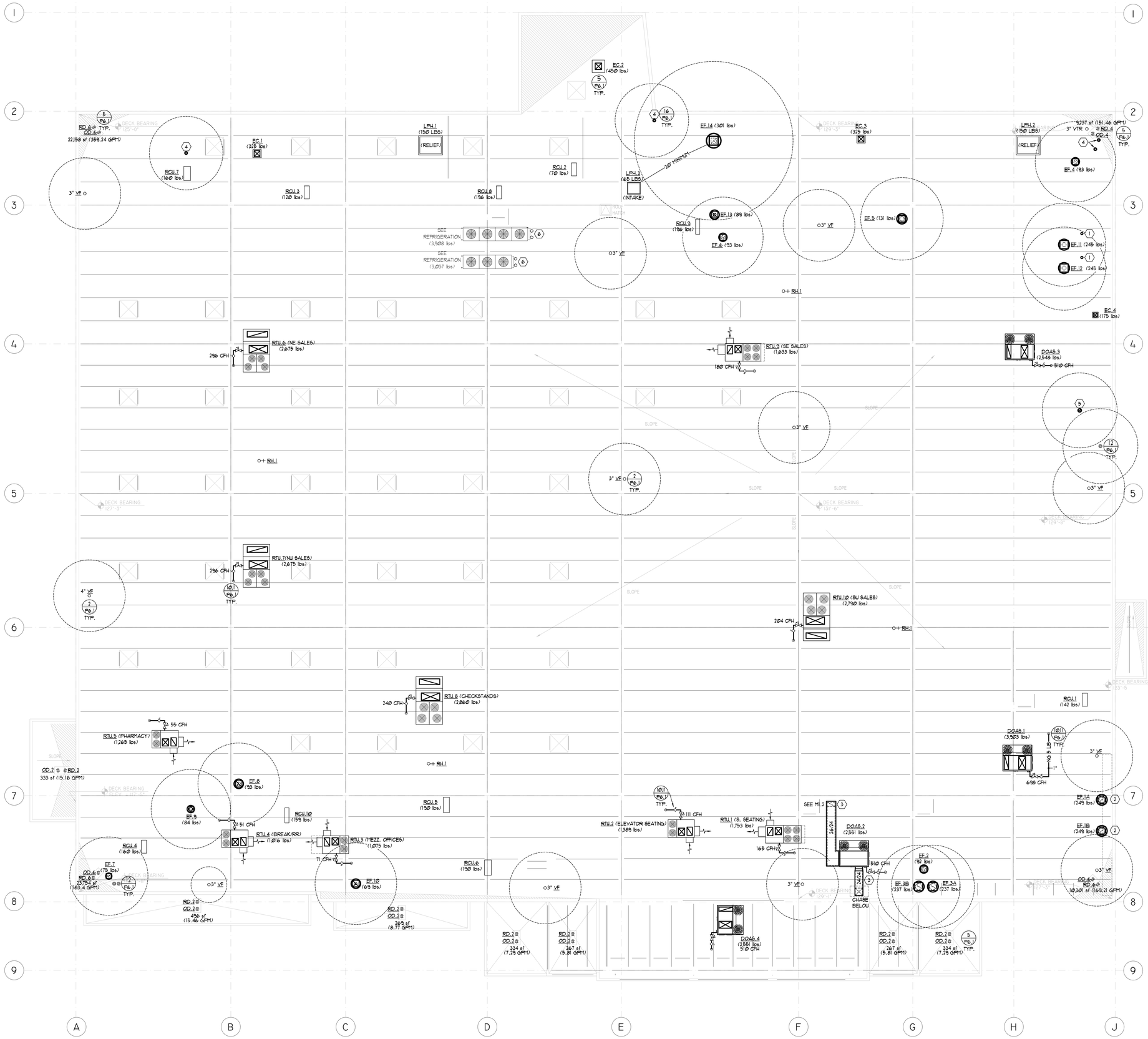
MARK	DATE	DESCRIPTION

DATE:	SEPTEMBER 11, 2026
AGENCY PROJECT NO:	
DESIGN SEQUENCE PROJECT NO:	
PVE PROJECT NO:	26076.00
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DWG TYPE:	
ARCHITECTURAL PHASE:	BID SET

SHEET TITLE

MECHANICAL FLOOR PLAN - MEZZANINE

M1.2



1 M2.1 MECHANICAL ROOF PLAN

SCALE: 3/32" = 1' - 0" 6' 0 4' 8' 12' 16'

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KEYED NOTES:

1. TERMINATE INDUCER DUCT 18" ABOVE ROOF W/ WEATHER PROOF CAP.
2. MAINTAIN 18" CLEARANCE FROM PARAPET WALL.
3. EXPOSED DUCT TO BE INSTALLED WITH R-12 INSULATION COVERED WITH ALUMINUM JACKETING.
4. TERMINATE UNIT HEATER FLUE NO LESS THAN 18" ABOVE ROOF MEMBRANE W/ WEATHER PROOF CAP.
5. TERMINATE ARTISAN OVEN FLUE NO LESS THAN 18" ABOVE ROOF MEMBRANE W/ WEATHER PROOF CAP.
6. 1" NON-ROTABLE WATER RISER AND 3" WASTE FROM BELOW. SLOPE NPW BACK TO BACK-FLOW DEVICE. TERMINATE DRAIN AT 3" RISER W/ AN AIR GAP. SEE P1.1 / P2.1.

GENERAL NOTES:

1. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS, AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
2. CONTRACTOR SHALL VERIFY THAT ALL VENTS AND EXHAUSTS ARE A MINIMUM OF 10'-00" FROM ANY FRESH AIR INTAKE. ANY REQUIRED OFF-SETS SHALL OCCUR BELOW THE ROOF STRUCTURE.
3. PROVIDE RADIUS FITTINGS WITH TURNING VANES AT ALL TRANSITIONS GREATER THAN 45° IN RECTANGULAR DUCTS.

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MECHANICAL ROOF PLAN

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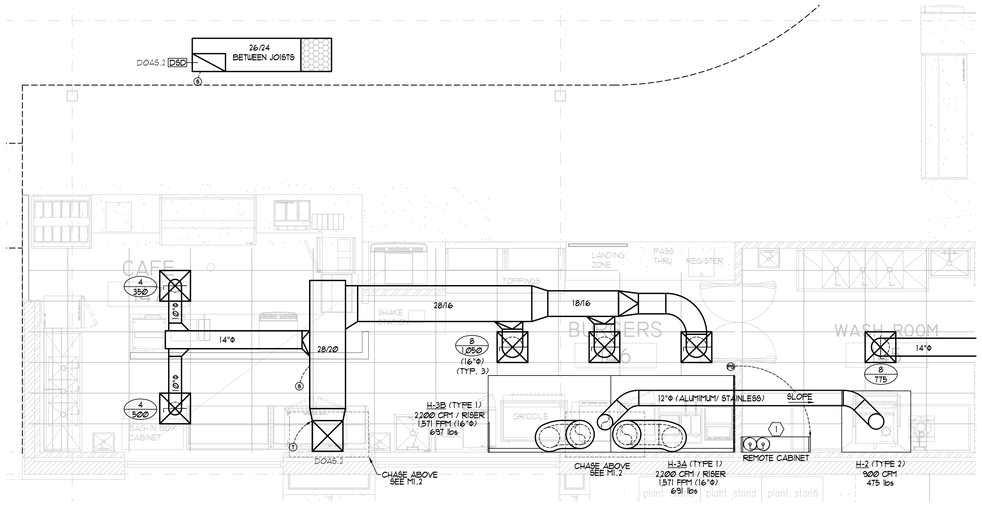
M2.1

GREASE DUCT GENERAL NOTES:

1. FIELD APPLIED GREASE DUCT ENCLOSURE SHALL BE INSTALLED PER THE LATEST MANUFACTURER'S INSTALLATION INSTRUCTIONS AND IN COMPLIANCE WITH ITS LISTING.
2. ALL END CUTS OF FIELD APPLIED GREASE DUCT ENCLOSURE OR CUTS IN THE FOIL JACKET SHALL BE SEALED PER THE MANUFACTURER'S RECOMMENDATIONS.
3. ALL INSTALLATIONS SHALL BE COMPLETELY ACCESSIBLE FOR VISUAL INSPECTION PRIOR TO SETTING THE HOOD IN PLACE.
4. AT TIME OF INSPECTION, THE FIELD APPLIED GREASE DUCT ENCLOSURE INSTALLATION INSTRUCTIONS SHALL BE MADE AVAIL. AT THE JOB SITE.
5. ALL FIRE EXTINGUISHING SYSTEMS SHALL BE INTERCONNECT TO THE FUEL OR CURRENT SUPPLY SO THAT THE FUEL OF CURRENT IS AUTOMATICALLY SHUT OFF TO ALL EQUIP. UNDER THE HOOD WHEN THE SYSTEM IS ACTIVATED.
6. OWNER OF ESTABLISHMENT SHALL BE RESPONSIBLE FOR CLEANLINESS, MAINTENANCE AND INSPECTION OF KITCHEN EXHAUST SYSTEM, FIRE PROTECTION, AND COOKING EQUIP.
7. A DRAWING OF THE EXHAUST SYSTEM(S) INSTALLATION ALONG WITH A COPY OF OPERATING INSTRUCTIONS FOR SUBASSEMBLIES AND COMPONENTS USED IN THE EXHAUST SYSTEM(S), INCLUDING ELECTRICAL SCHEMATICS, SHALL BE AVAILABLE ON THE PREMISES.
8. HOOD EXHAUST FAN SHALL CONTINUE TO OPERATE AFTER THE FIRE EXTINGUISHING SYSTEM HAS BEEN ACTIVATED, UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM.
9. INTERLOCKED MAKE-UP AIR EQUIPMENT SHALL SHUT DOWN UPON ACTIVATION OF FIRE EXTINGUISHING SYSTEM.

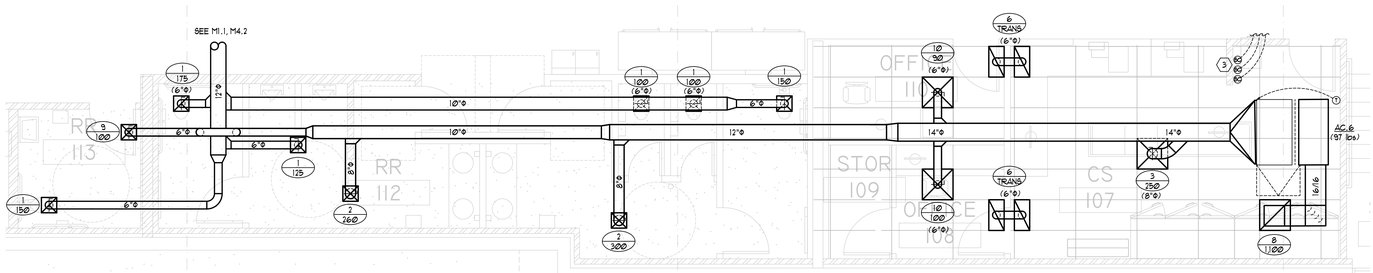
TYPE I GREASE HOOD NOTES:

- HOODS, FANS, CURBS, AND ANSUL SYSTEM ARE M.C.-PROVIDED, M.C.-INSTALLED.
- GREASE FANS SHALL BE UL 762 LISTED FOR GREASE, PROVIDED WITH A HINGED CURB, AND WITH A FLEXIBLE ELECTRICAL CONNECTION FOR CLEANING ACCESS.
- HOOD WILL BE SUPPLIED WITH A HEAT SENSOR. HEAT SENSOR SHALL AUTOMATICALLY ACTIVATE THE CORRESPONDING EXHAUST FAN UPON SENSING HEAT.
- ALL DUCTWORK SERVING TYPE I HOODS IS TO BE 16 GAUGE, WELDED CARBON STEEL OR #18 STAINLESS STEEL AND SHALL BE FIRE WRAPPED WITH 2 LAYERS OF 3M 615+ (ASTM E2336) FIRE BARRIER WRAP (OR EQUIVALENT).
- ALL HORIZONTAL SECTIONS OF GREASE DUCT SHALL BE SLOPED BACK TO THE HOOD AT A MINIMUM SLOPE OF ¼" PER FOOT.
- PROVIDE GREASE DUCT ACCESS DOORS AT EACH ELBOW AND EVERY 20' AS REQUIRED.
-PLUMBING CONTRACTOR IS TO INSTALL EMERGENCY NATURAL GAS SHUT OFF VALVE. VALVE WILL BE PROVIDED BY M.C. WITH ANSUL SYSTEM.
-ALL GREASE DUCT SHALL PASS THE 100 WATT LIGHT BULB TEST DETAILED IN IMC SECTION 506.3.2.5 PRIOR TO WRAPPING OR CONCEALING ANY PORTION OF THE DUCT. THE DUCT SHALL ALSO PASS A PERFORMANCE TEST DETAILED IN IMC SECTION 507.6 AND 507.6.1. NOTIFY PROJECT MANAGER AND LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO PERFORMING TESTS. PROVIDE PROJECT MANAGER WITH A REPORT DETAILING THE RESULTS OF EACH TEST PERFORMED.
-PROVIDE A PERFORMANCE TEST, AS WELL AS A CAPTURE & CONTAINMENT TEST FOR ALL TYPE I HOOD SYSTEMS. THE CAPTURE AND CONTAINMENT TEST IS A VISUAL FIELD TEST WITH THE INSPECTOR. THE PERFORMANCE TEST INVOLVES TESTING AND BALANCING BY A QUALIFIED 3RD PARTY. TESTING AND BALANCING REPORTS ARE REQUIRED AT TIME OF FINAL INSPECTION PER IMC 507.6.



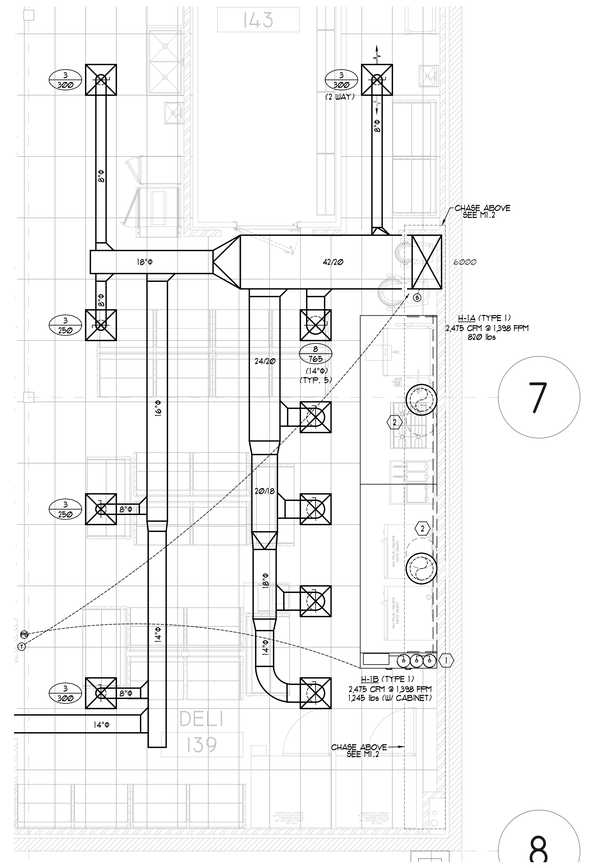
1 M4.1 HVAC FLOOR PLAN - JUST BURGERS

SCALE: 1/4" = 1' - 0"



2 M4.1 HVAC FLOOR PLAN - RESTROOMS

SCALE: 1/4" = 1' - 0"



3 M4.1 HVAC FLOOR PLAN - DELI

SCALE: 1/4" = 1' - 0"

PVE
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M4.1 KEYED NOTES:

1. CONNECTION BETWEEN FIRE CABINET / HOOD BY M.C. ROUTE PIPING ABOVE GRID.
2. OFFSET 18'ø GREASE DUCT AS REQUIRED TO CLEAR JOISTS ABOVE. SEE M1.2 / M2.1.
3. SPEED CONTROLLERS FOR DE-STRATIFICATION FANS. SEE M1.1.

GENERAL NOTES:

1. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS, AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
2. CONTRACTOR SHALL ENSURE THAT ALL VENTS AND EXHAUSTS ARE A MINIMUM OF 10'-0Ø" FROM ANY FRESH AIR INTAKE / BUILDING OPENING. ANY REQUIRED OFF-SETS SHALL OCCUR BELOW THE ROOF STRUCTURE.
3. PROVIDE RADIUS FITTINGS WITH TURNING VANES AT ALL TRANSITIONS GREATER THAN 45° IN RECTANGULAR DUCTS.
4. RTU SMOKE DETECTORS SHALL BE FIELD-TESTED BY M.C. TO ENSURE PROPER OPERATION.
5. DUCT-MOUNTED TEMPERATURE AND FLOW SENSORS ARE TO BE PROVIDED BY CONTROLS CONTRACTOR, INSTALLED BY M.C.

HARMONS

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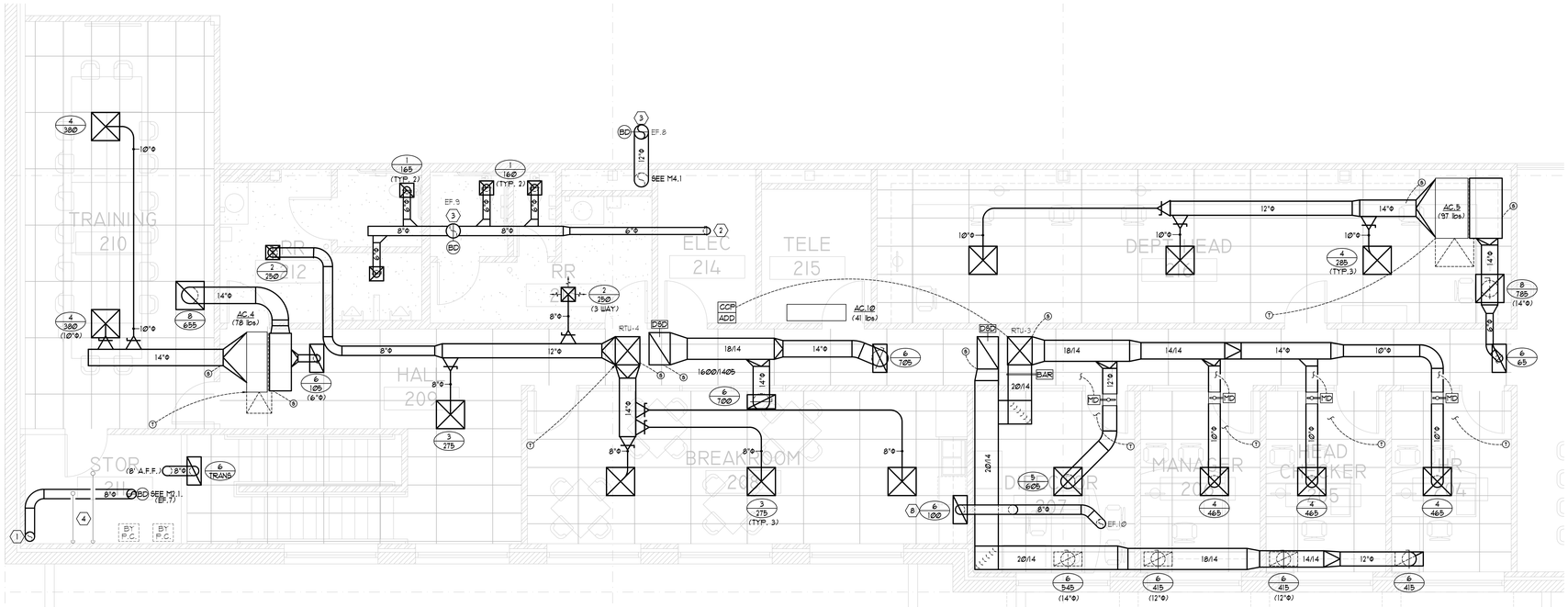
MARK	DATE	DESCRIPTION

DATE:	SEPTEMBER 11, 2026
AGENCY PROJECT NO:	
DESIGN SEQUENCE PROJECT NO:	
PVE PROJECT NO:	26076.00
DRAWN BY:	BNS
CONTACT:	BSPARKS@PVE-UT.COM
DWG TYPE:	
ARCHITECTURAL PHASE:	BID SET

SHEET TITLE

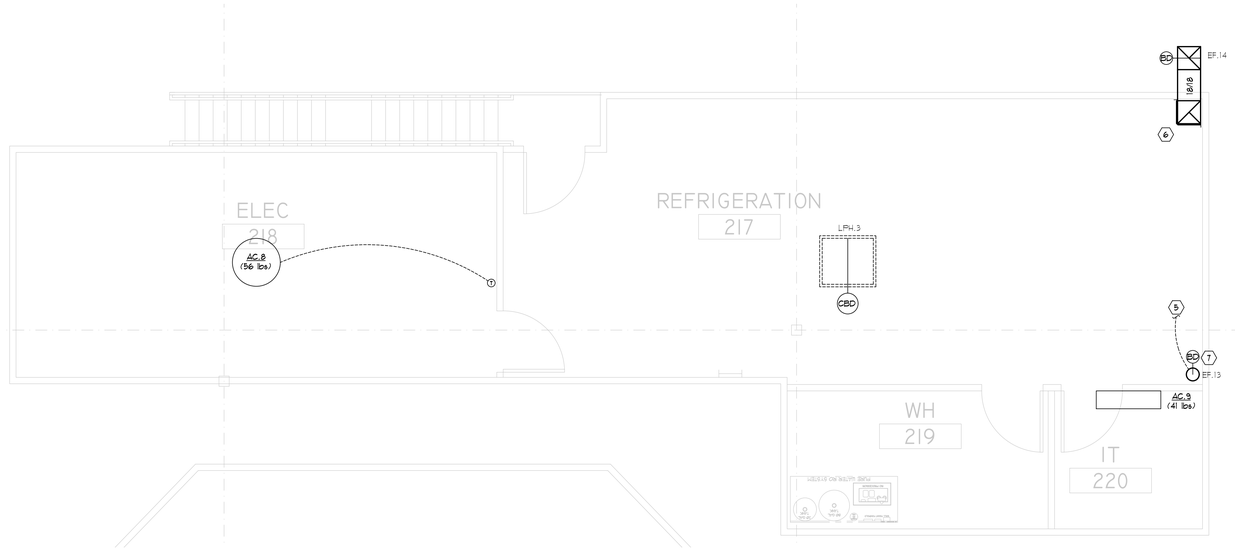
ENLARGED HVAC PLANS - LEVEL ONE

M4.1



1 M4.2 HVAC FLOOR PLAN - MEZZANINE

SCALE: 1/4" = 1' - 0"



2 M4.2 HVAC FLOOR PLAN - EQUIP. MEZZANINE

SCALE: 1/4" = 1' - 0"

VVT SYSTEM NOTES:

- CONTRACTOR SHALL PROVIDE A FULLY FUNCTIONING VARIABLE VOLUME / TEMPERATURE SYSTEM. ZONE SYSTEM SHALL BE INSTALLED COMPLETE WITH MOTORIZED DAMPERS, CENTRAL CONTROL PANEL (CCP), STEP-DOWN TRANSFORMER, ACTUATORS FOR ALL MOTORIZED DAMPERS, AND CONNECTIONS TO BAS.
- ALL WIRING FROM TRANSFORMERS TO MECHANICAL COMPONENTS (DAMPERS, CCP, STATS, ADDER-PANELS, AND RTU) TO BE PROVIDED / INSTALLED BY M.C.
- PROVIDE / INSTALL MOTORIZED DAMPERS SO THEY ARE ACCESSIBLE FROM LAY-IN CEILING.
- M.C. SHALL INSTALL BYPASS DUCT BETWEEN SUPPLY / RETURN DROP W/ BAROMETRIC BYPASS DAMPER.
- SYSTEM SHALL HAVE THE CAPACITY TO CONTROL NO LESS THAN 5 ZONES. PROVIDE ADDER-PANELS AS REQUIRED. COORDINATE LOCATION WITH E.C.
- ALL CONTROL PANELS AND TRANSFORMERS SHALL BE ACCESSIBLE AND CLEARLY LABELED TO INDICATE WHICH SYSTEM THEY SERVE.
- CONTRACTOR TO COORDINATE FINAL SETTINGS OF ALL STATS W/ OWNER PRIOR TO PROJECT COMPLETION..

REFRIGERATION EXHAUST SYSTEM

REFRIGERANT: R744
OCCUPANCY: LARGE MERCANTILE
SYSTEM: LOW-PROBABILITY

TABLE 1103.1:
CLASSIFICATION: A1
MAX LBS. PER 1,000 SF: 20
PPM: 85,000
G/M CUBED: 320
CEL: 1,000
RACK A:
626 LBS @ 80%
MAX = 782.5 LBS
RACK B:
626 LBS @ 80%
MAX = 782.5 LBS
782.5+782.5= 1565 LBS. OF REFRIGERANT
G: 1565 √G: 39.6

OCCUPIED VENTILATION:
818 SF X Ø.5 CFM: 409 CFM

EMERGENCY VENTILATION:
Q=1ØØ X √G = 3,960 CFM

REFRIGERATION ROOM SEQUENCING:

- EF-13 SHALL OPERATE AT 41Ø CFM WHEN ACTIVATED BY OCCUPANCY SENSOR / LIGHT SWITCH (BY E.C.)
- EF-14 SHALL OPERATE AT 3,96Ø CFM WHEN ACTIVATED BY REFRIGERATION LEAK DETECTION (BY M.C.) OR WHEN ACTIVATED BY EMERGENCY SWITCH LOCATED OUTSIDE OF ROOM.
-MAKE-UP AIR COMES FROM LOUVERED PENTHOUSE ON ROOF.
- 2 POSITION MOTORIZED DAMPER SHALL OPEN AS REQUIRED FOR FAN IN OPERATION.

KEYED NOTES:

1. 8"Ø EXHAUST RISER. SEE M1.1.
2. TURN DOWN EXHAUST DUCT @ 8' A.F.F. BALANCE TO 18Ø CFM.
3. 12"Ø EXHAUST THROUGH ROOF. SEE M2.1.
4. COORDINATE WITH P.C.
5. COORDINATE WITH E.C. FOR SWITCH / OCCUPANCY SENSOR.
6. TERMINATE AN 18/8 OPENING AT 12" A.F.F. AND ANOTHER AT 12" BELOW STRUCTURE. BALANCE EACH TO 1,98Ø CFM FOR EMERGENCY OPERATION.
7. TERMINATE 8"Ø VENTILATION DUCT 8' A.F.F.
8. COORDINATE WITH E.C. FOR SWITCH CONNECTIONS.

GENERAL NOTES:

1. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS, AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
2. CONTRACTOR SHALL VERIFY THAT ALL VENTS AND EXHAUSTS ARE A MINIMUM OF 10'-Ø0" FROM ANY FRESH AIR INTAKE / BUILDING OPENING. EF.14 REQUIRES 20'. ANY REQUIRED OFF-SETS SHALL OCCUR BELOW THE ROOF STRUCTURE.
3. PROVIDE RADIUS FITTINGS WITH TURNING VANES AT ALL TRANSITIONS GREATER THAN 45° IN RECTANGULAR DUCTS.
4. RTU SMOKE DETECTORS SHALL BE FIELD-TESTED BY M.C. TO ENSURE PROPER OPERATION.
5. DUCT-MOUNTED TEMPERATURE / FLOW SENSORS ARE TO BE PROVIDED BY CONTROLS CONTRACTOR, INSTALLED BY M.C.

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HARMONS

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CONTACT: BSPARKS@PVE-UT.COM
DWG TYPE:
ARCHITECTURAL PHASE: BID SET
SHEET TITLE

ENLARGED HVAC PLANS - MEZZANINES

M4.2

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Air Handler #1 - South Conference - Total Load Summary

Air Handler Description:	South Conference Constant Volume - Sum of Peaks
Supply Air Fan:	Draw-Thru with program estimated horsepower of 0.09 HP
Fan Input:	0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio:	0.67 --- This system occurs 1 time(s) in the building. ---
Air System Peak Time:	5pm in August.
Outdoor Conditions:	Clg: 93° DB, 62° WB, 48.67 grains, Htg: 0° DB
Indoor Conditions:	Clg: 68° DB, 25% RH, Htg: 75° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	1,106 Btuh		
Infiltration sensible loss:	0 Btuh	0 CFM	
Outside Air sensible loss:	6,908 Btuh	100 CFM	
Supply Duct sensible loss:	0 Btuh		
Return Duct sensible loss:	0 Btuh		
Return Plenum sensible loss:	0 Btuh		
Total System sensible loss:			8,014 Btuh
Heating Supply Air: 1,106 / (.849 X 1.08 X 12) =		100 CFM	
Winter Vent Outside Air (100.0% of supply) =		100 CFM	
Room space sensible gain:	11,034 Btuh		
Infiltration sensible gain:	0 Btuh		
Draw-thru fan sensible gain:	188 Btuh		
Supply duct sensible gain:	0 Btuh		
Reserve sensible gain:	0 Btuh		
Total sensible gain on supply side of coil:			11,222 Btuh
Cooling Supply Air: 11,245 / (.849 X 1.1 X 13) =		926 CFM	
Summer Vent Outside Air (10.8% of supply) =		100 CFM	
Return duct sensible gain:	0 Btuh		
Return plenum sensible gain:	0 Btuh		
Outside air sensible gain:	2,345 Btuh	100 CFM	
Blow-thru fan sensible gain:	0 Btuh		
Total sensible gain on return side of coil:			2,345 Btuh
Total sensible gain on air handling system:			13,568 Btuh
Room space latent gain:	5,400 Btuh		
Infiltration latent gain:	0 Btuh		
Outside air latent gain:	1,077 Btuh		
Total latent gain on air handling system:			6,477 Btuh
Total system sensible and latent gain:			20,045 Btuh

Check Figures

Total Air Handler Supply Air (based on a 13° TD):	926	CFM
Total Air Handler Vent. Air (10.85% of Supply):	100	CFM
Total Conditioned Air Space:	590	Sq.ft
Supply Air Per Unit Area:	1.5691	CFM/Sq.ft
Area Per Cooling Capacity:	353.2	Sq.ft/Ton
Cooling Capacity Per Area:	0.0028	Tons/Sq.ft

Air Handler #1 - South Conference - Total Load Summary (cont'd)

Check Figures

Heating Capacity Per Area:	13.58	Btuh/Sq.ft
Total Heating Required With Outside Air:	8,014	Btuh
Total Cooling Required With Outside Air:	1.67	Tons

Air Handler #2 - South Seating - Total Load Summary

Air Handler Description:	South Seating Constant Volume - Sum of Peaks
Supply Air Fan:	Draw-Thru with program estimated horsepower of 0.54 HP
Fan Input:	0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio:	0.77 --- This system occurs 1 time(s) in the building. ---
Air System Peak Time:	5pm in August.
Outdoor Conditions:	Clg: 93° DB, 62° WB, 48.67 grains, Htg: 0° DB
Indoor Conditions:	Clg: 68° DB, 25% RH, Htg: 75° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	23,971 Btuh		
Infiltration sensible loss:	0 Btuh	0 CFM	
Outside Air sensible loss:	74,058 Btuh	1,076 CFM	
Supply Duct sensible loss:	0 Btuh		
Return Duct sensible loss:	0 Btuh		
Return Plenum sensible loss:	0 Btuh		
Total System sensible loss:			98,028 Btuh
Heating Supply Air: 23,971 / (.849 X 1.08 X 24) =		1,076 CFM	
Winter Vent Outside Air (100.0% of supply) =		1,076 CFM	
Room space sensible gain:	67,947 Btuh		
Infiltration sensible gain:	0 Btuh		
Draw-thru fan sensible gain:	1,158 Btuh		
Supply duct sensible gain:	0 Btuh		
Reserve sensible gain:	0 Btuh		
Total sensible gain on supply side of coil:			69,105 Btuh
Cooling Supply Air: 69,105 / (.849 X 1.1 X 13) =		5,689 CFM	
Summer Vent Outside Air (18.9% of supply) =		1,076 CFM	
Return duct sensible gain:	0 Btuh		
Return plenum sensible gain:	0 Btuh		
Outside air sensible gain:	25,143 Btuh	1,076 CFM	
Blow-thru fan sensible gain:	0 Btuh		
Total sensible gain on return side of coil:			25,143 Btuh
Total sensible gain on air handling system:			94,248 Btuh
Room space latent gain:	20,250 Btuh		
Infiltration latent gain:	0 Btuh		
Outside air latent gain:	11,550 Btuh		
Total latent gain on air handling system:			31,800 Btuh
Total system sensible and latent gain:			126,047 Btuh

Check Figures

Total Air Handler Supply Air (based on a 13° TD):	5,689	CFM
Total Air Handler Vent. Air (18.92% of Supply):	1,076	CFM
Total Conditioned Air Space:	2,855	Sq.ft
Supply Air Per Unit Area:	1.9928	CFM/Sq.ft
Area Per Cooling Capacity:	271.8	Sq.ft/Ton
Cooling Capacity Per Area:	0.0037	Tons/Sq.ft

Air Handler #2 - South Seating - Total Load Summary (cont'd)

Check Figures

Heating Capacity Per Area:	34.34	Btuh/Sq.ft
Total Heating Required With Outside Air:	98,028	Btuh
Total Cooling Required With Outside Air:	10.50	Tons

Air Handler #3 - Elevator Seating - Total Load Summary

Air Handler Description:	Elevator Seating Constant Volume - Sum of Peaks
Supply Air Fan:	Draw-Thru with program estimated horsepower of 0.39 HP
Fan Input:	0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio:	0.70 --- This system occurs 1 time(s) in the building. ---
Air System Peak Time:	5pm in August.
Outdoor Conditions:	Clg: 93° DB, 62° WB, 48.67 grains, Htg: 0° DB
Indoor Conditions:	Clg: 68° DB, 25% RH, Htg: 75° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	12,993 Btuh		
Infiltration sensible loss:	0 Btuh	0 CFM	
Outside Air sensible loss:	56,559 Btuh	822 CFM	
Supply Duct sensible loss:	0 Btuh		
Return Duct sensible loss:	0 Btuh		
Return Plenum sensible loss:	0 Btuh		
Total System sensible loss:			69,551 Btuh
Heating Supply Air: 12,993 / (.849 X 1.08 X 17) =		822 CFM	
Winter Vent Outside Air (100.0% of supply) =		822 CFM	
Room space sensible gain:	49,135 Btuh		
Infiltration sensible gain:	0 Btuh		
Draw-thru fan sensible gain:	837 Btuh		
Supply duct sensible gain:	0 Btuh		
Reserve sensible gain:	0 Btuh		
Total sensible gain on supply side of coil:			49,972 Btuh
Cooling Supply Air: 49,972 / (.849 X 1.1 X 13) =		4,114 CFM	
Summer Vent Outside Air (20.0% of supply) =		822 CFM	
Return duct sensible gain:	0 Btuh		
Return plenum sensible gain:	0 Btuh		
Outside air sensible gain:	19,202 Btuh	822 CFM	
Blow-thru fan sensible gain:	0 Btuh		
Total sensible gain on return side of coil:			19,202 Btuh
Total sensible gain on air handling system:			69,174 Btuh
Room space latent gain:	20,755 Btuh		
Infiltration latent gain:	0 Btuh		
Outside air latent gain:	8,821 Btuh		
Total latent gain on air handling system:			29,576 Btuh
Total system sensible and latent gain:			98,750 Btuh

Check Figures

Total Air Handler Supply Air (based on a 13° TD):	4,114	CFM
Total Air Handler Vent. Air (19.98% of Supply):	822	CFM
Total Conditioned Air Space:	1,817	Sq.ft
Supply Air Per Unit Area:	2.2642	CFM/Sq.ft
Area Per Cooling Capacity:	220.8	Sq.ft/Ton
Cooling Capacity Per Area:	0.0045	Tons/Sq.ft

Air Handler #3 - Elevator Seating - Total Load Summary (cont'd)

Check Figures

Heating Capacity Per Area:	38.28	Btuh/Sq.ft
Total Heating Required With Outside Air:	69,551	Btuh
Total Cooling Required With Outside Air:	8.23	Tons

Air Handler #4 - Mezz. Offices - Total Load Summary

Air Handler Description:	Mezz. Offices Constant Volume - Sum of Peaks
Supply Air Fan:	Draw-Thru with program estimated horsepower of 0.27 HP
Fan Input:	0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio:	0.85 --- This system occurs 1 time(s) in the building. ---
Air System Peak Time:	5pm in August.
Outdoor Conditions:	Clg: 93° DB, 62° WB, 48.67 grains, Htg: 0° DB
Indoor Conditions:	Clg: 68° DB (avg.), 25% RH, Htg: 75° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	10,093 Btuh		
Infiltration sensible loss:	0 Btuh	0 CFM	
Outside Air sensible loss:	8,903 Btuh	129 CFM	
Supply Duct sensible loss:	0 Btuh		
Return Duct sensible loss:	0 Btuh		
Return Plenum sensible loss:	0 Btuh		
Total System sensible loss:			18,996 Btuh
Heating Supply Air: 10,093 / (.849 X 1.08 X 25) =		440 CFM	
Winter Vent Outside Air (29.4% of supply) =		129 CFM	
Room space sensible gain:	35,201 Btuh		
Infiltration sensible gain:	0 Btuh		
Draw-thru fan sensible gain:	585 Btuh		
Supply duct sensible gain:	0 Btuh		
Reserve sensible gain:	101 Btuh		
Total sensible gain on supply side of coil:			35,888 Btuh
Cooling Supply Air: 35,888 / (.849 X 1.1 X 13) =		2,875 CFM	
Summer Vent Outside Air (4.5% of supply) =		129 CFM	
Return duct sensible gain:	0 Btuh		
Return plenum sensible gain:	0 Btuh		
Outside air sensible gain:	2,979 Btuh	129 CFM	
Blow-thru fan sensible gain:	0 Btuh		
Total sensible gain on return side of coil:			2,979 Btuh
Total sensible gain on air handling system:			38,867 Btuh
Room space latent gain:	6,100 Btuh		
Infiltration latent gain:	0 Btuh		
Outside air latent gain:	1,388 Btuh		
Total latent gain on air handling system:			7,488 Btuh
Total system sensible and latent gain:			46,355 Btuh

Check Figures

Total Air Handler Supply Air (based on a 13° TD):	2,875	CFM
Total Air Handler Vent. Air (4.50% of Supply):	129	CFM
Total Conditioned Air Space:	990	Sq.ft
Supply Air Per Unit Area:	2.9042	CFM/Sq.ft
Area Per Cooling Capacity:	256.3	Sq.ft/Ton
Cooling Capacity Per Area:	0.0039	Tons/Sq.ft

Air Handler #4 - Mezz. Offices - Total Load Summary (cont'd)

Check Figures

Heating Capacity Per Area:	19.19	Btuh/Sq.ft
Total Heating Required With Outside Air:	18,996	Btuh
Total Cooling Required With Outside Air:	3.86	Tons

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HARMONS

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MARK	DATE	DESCRIPTION

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PVE PROJECT NO: 26076.00
DRAWN BY: BNS
CONTACT: BSPARKS@PVE-UT.COM
DWG TYPE:
ARCHITECTURAL PHASE: BID SET
SHEET TITLE

HVAC SPACE LOAD CALCULATIONS

M5.1

PVE
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Air Handler #5 - Dept. Heads - Total Load Summary

Air Handler Description: Dept. Heads Constant Volume - Sum of Peaks
Supply Air Fan: Draw-Thru with program estimated horsepower of 0.23 HP
Fan Input: 0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio: 0.85 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 5pm in August.
Outdoor Conditions: Clg: 93° DB, 62° WB, 48.67 grains, Htg: 0° DB
Indoor Conditions: Clg: 68° DB, 25% RH, Htg: 75° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	7,375	Btuh		
Infiltration sensible loss:	0	Btuh	0	CFM
Outside Air sensible loss:	4,435	Btuh	64	CFM
Supply Duct sensible loss:	0	Btuh		
Return Duct sensible loss:	0	Btuh		
Return Plenum sensible loss:	0	Btuh		
Total System sensible loss:				11,810 Btuh
Heating Supply Air: 7,375 / (.849 X 1.08 X 25) =			322	CFM
Winter Vent Outside Air (20.0% of supply) =			64	CFM
Room space sensible gain:	29,693	Btuh		
Infiltration sensible gain:	0	Btuh		
Draw-thru fan sensible gain:	506	Btuh		
Supply duct sensible gain:	0	Btuh		
Reserve sensible gain:	0	Btuh		
Total sensible gain on supply side of coil:				30,199 Btuh
Cooling Supply Air: 30,199 / (.849 X 1.1 X 13) =			2,486	CFM
Summer Vent Outside Air (2.6% of supply) =			64	CFM
Return duct sensible gain:	0	Btuh		
Return plenum sensible gain:	0	Btuh		
Outside air sensible gain:	1,506	Btuh	64	CFM
Blow-thru fan sensible gain:	0	Btuh		
Total sensible gain on return side of coil:				1,506 Btuh
Total sensible gain on air handling system:				31,705 Btuh
Room space latent gain:	5,100	Btuh		
Infiltration latent gain:	0	Btuh		
Outside air latent gain:	692	Btuh		
Total latent gain on air handling system:				5,792 Btuh
Total system sensible and latent gain:				37,496 Btuh

Check Figures

Total Air Handler Supply Air (based on a 13° TD):	2,486	CFM
Total Air Handler Vent. Air (2.59% of Supply):	64	CFM
Total Conditioned Air Space:	491	Sq.ft
Supply Air Per Unit Area:	5.0636	CFM/Sq.ft
Area Per Cooling Capacity:	157.1	Sq.ft/Ton
Cooling Capacity Per Area:	0.0064	Tons/Sq.ft

Air Handler #5 - Dept. Heads - Total Load Summary (cont'd)

Check Figures

Heating Capacity Per Area:	24.05	Btuh/Sq.ft
Total Heating Required With Outside Air:	11,810	Btuh
Total Cooling Required With Outside Air:	3.12	Tons

Air Handler #6 - Break / Restrooms - Total Load Summary

Air Handler Description: Break / Restrooms Constant Volume - Sum of Peaks
Supply Air Fan: Draw-Thru with program estimated horsepower of 0.22 HP
Fan Input: 0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio: 0.78 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 5pm in August.
Outdoor Conditions: Clg: 93° DB, 62° WB, 48.67 grains, Htg: 0° DB
Indoor Conditions: Clg: 68° DB, 25% RH, Htg: 75° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	6,229	Btuh		
Infiltration sensible loss:	0	Btuh	0	CFM
Outside Air sensible loss:	13,108	Btuh	191	CFM
Supply Duct sensible loss:	0	Btuh		
Return Duct sensible loss:	0	Btuh		
Return Plenum sensible loss:	0	Btuh		
Total System sensible loss:				19,337 Btuh
Heating Supply Air: 6,229 / (.849 X 1.08 X 25) =			272	CFM
Winter Vent Outside Air (70.1% of supply) =			191	CFM
Room space sensible gain:	27,717	Btuh		
Infiltration sensible gain:	0	Btuh		
Draw-thru fan sensible gain:	472	Btuh		
Supply duct sensible gain:	0	Btuh		
Reserve sensible gain:	9	Btuh		
Total sensible gain on supply side of coil:				28,198 Btuh
Cooling Supply Air: 28,198 / (.849 X 1.1 X 13) =			2,321	CFM
Summer Vent Outside Air (8.2% of supply) =			191	CFM
Return duct sensible gain:	0	Btuh		
Return plenum sensible gain:	0	Btuh		
Outside air sensible gain:	4,450	Btuh	191	CFM
Blow-thru fan sensible gain:	0	Btuh		
Total sensible gain on return side of coil:				4,450 Btuh
Total sensible gain on air handling system:				32,648 Btuh
Room space latent gain:	8,000	Btuh		
Infiltration latent gain:	0	Btuh		
Outside air latent gain:	2,044	Btuh		
Total latent gain on air handling system:				10,044 Btuh
Total system sensible and latent gain:				42,693 Btuh

Check Figures

Total Air Handler Supply Air (based on a 13° TD):	2,321	CFM
Total Air Handler Vent. Air (8.21% of Supply):	191	CFM
Total Conditioned Air Space:	671	Sq.ft
Supply Air Per Unit Area:	3.4597	CFM/Sq.ft
Area Per Cooling Capacity:	188.6	Sq.ft/Ton
Cooling Capacity Per Area:	0.0053	Tons/Sq.ft

Air Handler #6 - Break / Restrooms - Total Load Summary (cont'd)

Check Figures

Heating Capacity Per Area:	28.82	Btuh/Sq.ft
Total Heating Required With Outside Air:	19,337	Btuh
Total Cooling Required With Outside Air:	3.56	Tons

Air Handler #7 - Training - Total Load Summary

Air Handler Description: Training Constant Volume - Sum of Peaks
Supply Air Fan: Draw-Thru with program estimated horsepower of 0.11 HP
Fan Input: 0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio: 0.67 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 5pm in August.
Outdoor Conditions: Clg: 93° DB, 62° WB, 48.67 grains, Htg: 0° DB
Indoor Conditions: Clg: 68° DB, 25% RH, Htg: 75° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	2,100	Btuh		
Infiltration sensible loss:	0	Btuh	0	CFM
Outside Air sensible loss:	7,106	Btuh	103	CFM
Supply Duct sensible loss:	0	Btuh		
Return Duct sensible loss:	0	Btuh		
Return Plenum sensible loss:	0	Btuh		
Total System sensible loss:				9,206 Btuh
Heating Supply Air: 2,100 / (.849 X 1.08 X 22) =			103	CFM
Winter Vent Outside Air (100.0% of supply) =			103	CFM
Room space sensible gain:	13,481	Btuh		
Infiltration sensible gain:	0	Btuh		
Draw-thru fan sensible gain:	231	Btuh		
Supply duct sensible gain:	0	Btuh		
Reserve sensible gain:	0	Btuh		
Total sensible gain on supply side of coil:				13,712 Btuh
Cooling Supply Air: 13,763 / (.849 X 1.1 X 13) =			1,133	CFM
Summer Vent Outside Air (9.1% of supply) =			103	CFM
Return duct sensible gain:	0	Btuh		
Return plenum sensible gain:	0	Btuh		
Outside air sensible gain:	2,412	Btuh	103	CFM
Blow-thru fan sensible gain:	0	Btuh		
Total sensible gain on return side of coil:				2,412 Btuh
Total sensible gain on air handling system:				16,124 Btuh
Room space latent gain:	6,800	Btuh		
Infiltration latent gain:	0	Btuh		
Outside air latent gain:	1,108	Btuh		
Total latent gain on air handling system:				7,908 Btuh
Total system sensible and latent gain:				24,033 Btuh

Check Figures

Total Air Handler Supply Air (based on a 13° TD):	1,133	CFM
Total Air Handler Vent. Air (9.11% of Supply):	103	CFM
Total Conditioned Air Space:	388	Sq.ft
Supply Air Per Unit Area:	2.9203	CFM/Sq.ft
Area Per Cooling Capacity:	193.7	Sq.ft/Ton
Cooling Capacity Per Area:	0.0052	Tons/Sq.ft

Air Handler #7 - Training - Total Load Summary (cont'd)

Check Figures

Heating Capacity Per Area:	23.73	Btuh/Sq.ft
Total Heating Required With Outside Air:	9,206	Btuh
Total Cooling Required With Outside Air:	2.00	Tons

Air Handler #8 - Pharmacy - Total Load Summary

Air Handler Description: Pharmacy Constant Volume - Sum of Peaks
Supply Air Fan: Draw-Thru with program estimated horsepower of 0.21 HP
Fan Input: 0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio: 0.81 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 5pm in August.
Outdoor Conditions: Clg: 93° DB, 62° WB, 48.67 grains, Htg: 0° DB
Indoor Conditions: Clg: 68° DB, 25% RH, Htg: 75° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	8,337	Btuh		
Infiltration sensible loss:	0	Btuh	0	CFM
Outside Air sensible loss:	19,501	Btuh	283	CFM
Supply Duct sensible loss:	0	Btuh		
Return Duct sensible loss:	0	Btuh		
Return Plenum sensible loss:	0	Btuh		
Total System sensible loss:				27,838 Btuh
Heating Supply Air: 8,337 / (.849 X 1.08 X 25) =			364	CFM
Winter Vent Outside Air (78.0% of supply) =			283	CFM
Room space sensible gain:	26,465	Btuh		
Infiltration sensible gain:	0	Btuh		
Draw-thru fan sensible gain:	453	Btuh		
Supply duct sensible gain:	0	Btuh		
Reserve sensible gain:	0	Btuh		
Total sensible gain on supply side of coil:				26,918 Btuh
Cooling Supply Air: 27,048 / (.849 X 1.1 X 13) =			2,227	CFM
Summer Vent Outside Air (12.7% of supply) =			283	CFM
Return duct sensible gain:	0	Btuh		
Return plenum sensible gain:	0	Btuh		
Outside air sensible gain:	6,621	Btuh	283	CFM
Blow-thru fan sensible gain:	0	Btuh		
Total sensible gain on return side of coil:				6,621 Btuh
Total sensible gain on air handling system:				33,539 Btuh
Room space latent gain:	6,300	Btuh		
Infiltration latent gain:	0	Btuh		
Outside air latent gain:	3,041	Btuh		
Total latent gain on air handling system:				9,341 Btuh
Total system sensible and latent gain:				42,880 Btuh

Check Figures

Total Air Handler Supply Air (based on a 13° TD):	2,227	CFM
Total Air Handler Vent. Air (12.73% of Supply):	283	CFM
Total Conditioned Air Space:	1,408	Sq.ft
Supply Air Per Unit Area:	1.5816	CFM/Sq.ft
Area Per Cooling Capacity:	394.0	Sq.ft/Ton
Cooling Capacity Per Area:	0.0025	Tons/Sq.ft

Air Handler #8 - Pharmacy - Total Load Summary (cont'd)

Check Figures

Heating Capacity Per Area:	19.77	Btuh/Sq.ft
Total Heating Required With Outside Air:	27,838	Btuh
Total Cooling Required With Outside Air:	3.57	Tons

design
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350 South 200 East, #106
Salt Lake City, Utah 84111
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HARMONS

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 11, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
PVE PROJECT NO: 26076.00

DRAWN BY: BNS
CONTACT: BSPARKS@PVE-UT.COM
DWG TYPE:
ARCHITECTURAL PHASE: BID SET

SHEET TITLE

HVAC SPACE LOAD CALCULATIONS

M5.2

PVE
1040 N 2200 WEST SALT LAKE CITY UTAH
T: 801.359.3158 www.pve-ut.com

Air Handler #9 - Cust. Service / Restrooms - Total Load Summary

Air Handler Description: Cust. Service / Restrooms Constant Volume - Sum of Peaks
Supply Air Fan: Draw-Thru with program estimated horsepower of 0.16 HP
Fan Input: 0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio: 0.75 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 5pm in August.
Outdoor Conditions: Clg: 93° DB, 62° WB, 48.67 grains, Htg: 0° DB
Indoor Conditions: Clg: 68° DB, 25% RH, Htg: 75° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	7,179	Btuh		
Infiltration sensible loss:	0	Btuh	0	CFM
Outside Air sensible loss:	7,664	Btuh	111	CFM
Supply Duct sensible loss:	0	Btuh		
Return Duct sensible loss:	0	Btuh		
Return Plenum sensible loss:	0	Btuh		
Total System sensible loss:				14,843 Btuh
Heating Supply Air: 7,179 / (.849 X 1.08 X 25) =			313	CFM
Winter Vent Outside Air (35.6% of supply) =			111	CFM
Room space sensible gain:	20,238	Btuh		
Infiltration sensible gain:	0	Btuh		
Draw-thru fan sensible gain:	350	Btuh		
Supply duct sensible gain:	0	Btuh		
Reserve sensible gain:	0	Btuh		
Total sensible gain on supply side of coil:				20,588 Btuh
Cooling Supply Air: 20,891 / (.849 X 1.1 X 13) =			1,720	CFM
Summer Vent Outside Air (6.5% of supply) =			111	CFM
Return duct sensible gain:	0	Btuh		
Return plenum sensible gain:	0	Btuh		
Outside air sensible gain:	2,602	Btuh	111	CFM
Blow-thru fan sensible gain:	0	Btuh		
Total sensible gain on return side of coil:				2,602 Btuh
Total sensible gain on air handling system:				23,190 Btuh
Room space latent gain:	6,850	Btuh		
Infiltration latent gain:	0	Btuh		
Outside air latent gain:	1,195	Btuh		
Total latent gain on air handling system:				8,045 Btuh
Total system sensible and latent gain:				31,235 Btuh

Check Figures

Total Air Handler Supply Air (based on a 13° TD):	1,720	CFM
Total Air Handler Vent. Air (6.48% of Supply):	111	CFM
Total Conditioned Air Space:	940	Sq.ft
Supply Air Per Unit Area:	1.8297	CFM/Sq.ft
Area Per Cooling Capacity:	361.1	Sq.ft/Ton
Cooling Capacity Per Area:	0.0028	Tons/Sq.ft

Air Handler #9 - Cust. Service / Restrooms - Total Load Summary (cont'd)

Check Figures

Heating Capacity Per Area:	15.79	Btuh/Sq.ft
Total Heating Required With Outside Air:	14,843	Btuh
Total Cooling Required With Outside Air:	2.60	Tons

Air Handler #10 - Just Burgers - Total Load Summary

Air Handler Description: Just Burgers Constant Volume - Sum of Peaks
Supply Air Fan: Draw-Thru with program estimated horsepower of 0.43 HP
Fan Input: 0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio: 0.77 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 5pm in August.
Outdoor Conditions: Clg: 93° DB, 62° WB, 48.67 grains, Htg: 0° DB
Indoor Conditions: Clg: 72° DB, 25% RH, Htg: 68° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	2,111	Btuh		
Infiltration sensible loss:	0	Btuh	0	CFM
Outside Air sensible loss:	9,731	Btuh	156	CFM
Supply Duct sensible loss:	0	Btuh		
Return Duct sensible loss:	0	Btuh		
Return Plenum sensible loss:	0	Btuh		
Total System sensible loss:				11,842 Btuh
Heating Supply Air: 2,111 / (.849 X 1.08 X 15) =			156	CFM
Winter Vent Outside Air (100.0% of supply) =			156	CFM
Room space sensible gain:	71,110	Btuh		
Infiltration sensible gain:	0	Btuh		
Draw-thru fan sensible gain:	924	Btuh		
Supply duct sensible gain:	0	Btuh		
Reserve sensible gain:	0	Btuh		
Total sensible gain on supply side of coil:				72,034 Btuh
Cooling Supply Air: 72,137 / (.849 X 1.1 X 17) =			4,542	CFM
Summer Vent Outside Air (3.4% of supply) =			156	CFM
Return duct sensible gain:	0	Btuh		
Return plenum sensible gain:	0	Btuh		
Outside air sensible gain:	3,061	Btuh	156	CFM
Blow-thru fan sensible gain:	0	Btuh		
Total sensible gain on return side of coil:				3,061 Btuh
Total sensible gain on air handling system:				75,095 Btuh
Room space latent gain:	21,100	Btuh		
Infiltration latent gain:	0	Btuh		
Outside air latent gain:	1,278	Btuh		
Total latent gain on air handling system:				22,378 Btuh
Total system sensible and latent gain:				97,474 Btuh

Check Figures

Total Air Handler Supply Air (based on a 17° TD):	4,542	CFM
Total Air Handler Vent. Air (3.43% of Supply):	156	CFM
Total Conditioned Air Space:	925	Sq.ft
Supply Air Per Unit Area:	4.9097	CFM/Sq.ft
Area Per Cooling Capacity:	113.9	Sq.ft/Ton
Cooling Capacity Per Area:	0.0088	Tons/Sq.ft

Air Handler #10 - Just Burgers - Total Load Summary (cont'd)

Check Figures

Heating Capacity Per Area:	12.80	Btuh/Sq.ft
Total Heating Required With Outside Air:	11,842	Btuh
Total Cooling Required With Outside Air:	8.12	Tons

Air Handler #11 - Deli - Total Load Summary

Air Handler Description: Deli Constant Volume - Sum of Peaks
Supply Air Fan: Draw-Thru with program estimated horsepower of 0.57 HP
Fan Input: 0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio: 0.78 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 5pm in August.
Outdoor Conditions: Clg: 93° DB, 62° WB, 48.67 grains, Htg: 0° DB
Indoor Conditions: Clg: 72° DB, 25% RH, Htg: 68° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	7,247	Btuh		
Infiltration sensible loss:	0	Btuh	0	CFM
Outside Air sensible loss:	14,649	Btuh	235	CFM
Supply Duct sensible loss:	0	Btuh		
Return Duct sensible loss:	0	Btuh		
Return Plenum sensible loss:	0	Btuh		
Total System sensible loss:				21,896 Btuh
Heating Supply Air: 7,247 / (.849 X 1.08 X 32) =			247	CFM
Winter Vent Outside Air (95.1% of supply) =			235	CFM
Room space sensible gain:	95,203	Btuh		
Infiltration sensible gain:	0	Btuh		
Draw-thru fan sensible gain:	1,238	Btuh		
Supply duct sensible gain:	0	Btuh		
Reserve sensible gain:	0	Btuh		
Total sensible gain on supply side of coil:				96,440 Btuh
Cooling Supply Air: 96,623 / (.849 X 1.1 X 17) =			6,083	CFM
Summer Vent Outside Air (3.9% of supply) =			235	CFM
Return duct sensible gain:	0	Btuh		
Return plenum sensible gain:	0	Btuh		
Outside air sensible gain:	4,608	Btuh	235	CFM
Blow-thru fan sensible gain:	0	Btuh		
Total sensible gain on return side of coil:				4,608 Btuh
Total sensible gain on air handling system:				101,048 Btuh
Room space latent gain:	26,800	Btuh		
Infiltration latent gain:	0	Btuh		
Outside air latent gain:	1,925	Btuh		
Total latent gain on air handling system:				28,725 Btuh
Total system sensible and latent gain:				129,773 Btuh

Check Figures

Total Air Handler Supply Air (based on a 17° TD):	6,083	CFM
Total Air Handler Vent. Air (3.86% of Supply):	235	CFM
Total Conditioned Air Space:	1,582	Sq.ft
Supply Air Per Unit Area:	3.8452	CFM/Sq.ft
Area Per Cooling Capacity:	146.3	Sq.ft/Ton
Cooling Capacity Per Area:	0.0068	Tons/Sq.ft

Air Handler #11 - Deli - Total Load Summary (cont'd)

Check Figures

Heating Capacity Per Area:	13.84	Btuh/Sq.ft
Total Heating Required With Outside Air:	21,896	Btuh
Total Cooling Required With Outside Air:	10.81	Tons

Air Handler #12 - Bakery - Total Load Summary

Air Handler Description: Bakery Constant Volume - Sum of Peaks
Supply Air Fan: Draw-Thru with program estimated horsepower of 0.59 HP
Fan Input: 0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio: 0.79 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 5pm in August.
Outdoor Conditions: Clg: 93° DB, 62° WB, 48.67 grains, Htg: 0° DB
Indoor Conditions: Clg: 72° DB, 25% RH, Htg: 68° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	11,873	Btuh		
Infiltration sensible loss:	0	Btuh	0	CFM
Outside Air sensible loss:	23,699	Btuh	380	CFM
Supply Duct sensible loss:	0	Btuh		
Return Duct sensible loss:	0	Btuh		
Return Plenum sensible loss:	0	Btuh		
Total System sensible loss:				35,572 Btuh
Heating Supply Air: 11,873 / (.849 X 1.08 X 32) =			404	CFM
Winter Vent Outside Air (93.9% of supply) =			380	CFM
Room space sensible gain:	97,990	Btuh		
Infiltration sensible gain:	0	Btuh		
Draw-thru fan sensible gain:	1,275	Btuh		
Supply duct sensible gain:	0	Btuh		
Reserve sensible gain:	0	Btuh		
Total sensible gain on supply side of coil:				99,265 Btuh
Cooling Supply Air: 99,480 / (.849 X 1.1 X 17) =			6,263	CFM
Summer Vent Outside Air (6.1% of supply) =			380	CFM
Return duct sensible gain:	0	Btuh		
Return plenum sensible gain:	0	Btuh		
Outside air sensible gain:	7,454	Btuh	380	CFM
Blow-thru fan sensible gain:	0	Btuh		
Total sensible gain on return side of coil:				7,454 Btuh
Total sensible gain on air handling system:				106,719 Btuh
Room space latent gain:	25,800	Btuh		
Infiltration latent gain:	0	Btuh		
Outside air latent gain:	3,114	Btuh		
Total latent gain on air handling system:				28,914 Btuh
Total system sensible and latent gain:				135,633 Btuh

Check Figures

Total Air Handler Supply Air (based on a 17° TD):	6,263	CFM
Total Air Handler Vent. Air (6.07% of Supply):	380	CFM
Total Conditioned Air Space:	2,791	Sq.ft
Supply Air Per Unit Area:	2.2440	CFM/Sq.ft
Area Per Cooling Capacity:	246.9	Sq.ft/Ton
Cooling Capacity Per Area:	0.0040	Tons/Sq.ft

Air Handler #12 - Bakery - Total Load Summary (cont'd)

Check Figures

Heating Capacity Per Area:	12.75	Btuh/Sq.ft
Total Heating Required With Outside Air:	35,572	Btuh
Total Cooling Required With Outside Air:	11.30	Tons

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HARMONS

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 11, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
PVE PROJECT NO: 26076.00
DRAWN BY: BNS
CONTACT: BSPARKS@PVE-UT.COM
DWG TYPE:
ARCHITECTURAL PHASE: BID SET

SHEET TITLE

HVAC SPACE LOAD CALCULATIONS

M5.3

PVE
1040 N 2200 WEST SALT LAKE CITY UTAH
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Air Handler #13 - NE Sales - Total Load Summary

Air Handler Description: NE Sales Constant Volume - Sum of Peaks
Supply Air Fan: Draw-Thru with program estimated horsepower of 1.38 HP
Fan Input: 0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio: 0.79 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 5pm in August.
Outdoor Conditions: Clg: 93° DB, 62° WB, 48.67 grains, Htg: 0° DB
Indoor Conditions: Clg: 70° DB (avg.), 25% RH, Htg: 72° DB (avg.)

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	19,768 Btuh		
Infiltration sensible loss:	0 Btuh	0 CFM	
Outside Air sensible loss:	40,858 Btuh	619 CFM	
Supply Duct sensible loss:	0 Btuh		
Return Duct sensible loss:	0 Btuh		
Return Plenum sensible loss:	0 Btuh		
Total System sensible loss:			60,626 Btuh
Heating Supply Air: 19,768 / (.849 X 1.08 X 28) =		770 CFM	
Winter Vent Outside Air (80.4% of supply) =		619 CFM	
Room space sensible gain:	202,328 Btuh		
Infiltration sensible gain:	0 Btuh		
Draw-thru fan sensible gain:	2,987 Btuh		
Supply duct sensible gain:	0 Btuh		
Reserve sensible gain:	0 Btuh		
Total sensible gain on supply side of coil:			205,315 Btuh
Cooling Supply Air: 205,704 / (.849 X 1.1 X 15) =		14,677 CFM	
Summer Vent Outside Air (4.2% of supply) =		619 CFM	
Return duct sensible gain:	0 Btuh		
Return plenum sensible gain:	0 Btuh		
Outside air sensible gain:	13,294 Btuh	619 CFM	
Blow-thru fan sensible gain:	0 Btuh		
Total sensible gain on return side of coil:			13,294 Btuh
Total sensible gain on air handling system:			218,609 Btuh
Room space latent gain:	55,250 Btuh		
Infiltration latent gain:	0 Btuh		
Outside air latent gain:	5,877 Btuh		
Total latent gain on air handling system:			61,127 Btuh
Total system sensible and latent gain:			279,736 Btuh

Check Figures

Total Air Handler Supply Air (based on a 15° TD):	14,677	CFM
Total Air Handler Vent. Air (4.21% of Supply):	619	CFM
Total Conditioned Air Space:	7,185	Sq.ft
Supply Air Per Unit Area:	2.0428	CFM/Sq.ft
Area Per Cooling Capacity:	308.2	Sq.ft/Ton
Cooling Capacity Per Area:	0.0032	Tons/Sq.ft

Air Handler #13 - NE Sales - Total Load Summary (cont'd)

Check Figures

Heating Capacity Per Area:	8.44	Btuh/Sq.ft
Total Heating Required With Outside Air:	60,626	Btuh
Total Cooling Required With Outside Air:	23.31	Tons

Air Handler #14 - NW Sales - Total Load Summary

Air Handler Description: NW Sales Constant Volume - Sum of Peaks
Supply Air Fan: Draw-Thru with program estimated horsepower of 1.20 HP
Fan Input: 0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio: 0.78 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 5pm in August.
Outdoor Conditions: Clg: 93° DB, 62° WB, 48.67 grains, Htg: 0° DB
Indoor Conditions: Clg: 70° DB (avg.), 25% RH, Htg: 72° DB (avg.)

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	17,081 Btuh		
Infiltration sensible loss:	0 Btuh	0 CFM	
Outside Air sensible loss:	37,093 Btuh	562 CFM	
Supply Duct sensible loss:	0 Btuh		
Return Duct sensible loss:	0 Btuh		
Return Plenum sensible loss:	0 Btuh		
Total System sensible loss:			54,175 Btuh
Heating Supply Air: 17,081 / (.849 X 1.08 X 28) =		665 CFM	
Winter Vent Outside Air (84.4% of supply) =		562 CFM	
Room space sensible gain:	174,614 Btuh		
Infiltration sensible gain:	0 Btuh		
Draw-thru fan sensible gain:	2,578 Btuh		
Supply duct sensible gain:	0 Btuh		
Reserve sensible gain:	0 Btuh		
Total sensible gain on supply side of coil:			177,192 Btuh
Cooling Supply Air: 177,528 / (.849 X 1.1 X 15) =		12,667 CFM	
Summer Vent Outside Air (4.4% of supply) =		562 CFM	
Return duct sensible gain:	0 Btuh		
Return plenum sensible gain:	0 Btuh		
Outside air sensible gain:	12,069 Btuh	562 CFM	
Blow-thru fan sensible gain:	0 Btuh		
Total sensible gain on return side of coil:			12,069 Btuh
Total sensible gain on air handling system:			189,261 Btuh
Room space latent gain:	48,250 Btuh		
Infiltration latent gain:	0 Btuh		
Outside air latent gain:	5,336 Btuh		
Total latent gain on air handling system:			53,586 Btuh
Total system sensible and latent gain:			242,846 Btuh

Check Figures

Total Air Handler Supply Air (based on a 15° TD):	12,667	CFM
Total Air Handler Vent. Air (4.43% of Supply):	562	CFM
Total Conditioned Air Space:	6,235	Sq.ft
Supply Air Per Unit Area:	2.0316	CFM/Sq.ft
Area Per Cooling Capacity:	308.1	Sq.ft/Ton
Cooling Capacity Per Area:	0.0032	Tons/Sq.ft

Air Handler #14 - NW Sales - Total Load Summary (cont'd)

Check Figures

Heating Capacity Per Area:	8.69	Btuh/Sq.ft
Total Heating Required With Outside Air:	54,175	Btuh
Total Cooling Required With Outside Air:	20.24	Tons

Air Handler #15 - CheckStands - Total Load Summary

Air Handler Description: CheckStands Constant Volume - Sum of Peaks
Supply Air Fan: Draw-Thru with program estimated horsepower of 1.03 HP
Fan Input: 0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio: 0.78 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 5pm in August.
Outdoor Conditions: Clg: 93° DB, 62° WB, 48.67 grains, Htg: 0° DB
Indoor Conditions: Clg: 70° DB (avg.), 25% RH, Htg: 72° DB (avg.)

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	7,011 Btuh		
Infiltration sensible loss:	0 Btuh	0 CFM	
Outside Air sensible loss:	41,326 Btuh	626 CFM	
Supply Duct sensible loss:	0 Btuh		
Return Duct sensible loss:	0 Btuh		
Return Plenum sensible loss:	0 Btuh		
Total System sensible loss:			48,337 Btuh
Heating Supply Air: 7,011 / (.849 X 1.08 X 12) =		626 CFM	
Winter Vent Outside Air (100.0% of supply) =		626 CFM	
Room space sensible gain:	150,679 Btuh		
Infiltration sensible gain:	0 Btuh		
Draw-thru fan sensible gain:	2,222 Btuh		
Supply duct sensible gain:	0 Btuh		
Reserve sensible gain:	0 Btuh		
Total sensible gain on supply side of coil:			152,901 Btuh
Cooling Supply Air: 153,047 / (.849 X 1.1 X 15) =		10,920 CFM	
Summer Vent Outside Air (5.7% of supply) =		626 CFM	
Return duct sensible gain:	0 Btuh		
Return plenum sensible gain:	0 Btuh		
Outside air sensible gain:	13,446 Btuh	626 CFM	
Blow-thru fan sensible gain:	0 Btuh		
Total sensible gain on return side of coil:			13,446 Btuh
Total sensible gain on air handling system:			166,347 Btuh
Room space latent gain:	43,750 Btuh		
Infiltration latent gain:	0 Btuh		
Outside air latent gain:	5,945 Btuh		
Total latent gain on air handling system:			49,695 Btuh
Total system sensible and latent gain:			216,041 Btuh

Check Figures

Total Air Handler Supply Air (based on a 15° TD):	10,920	CFM
Total Air Handler Vent. Air (5.73% of Supply):	626	CFM
Total Conditioned Air Space:	6,053	Sq.ft
Supply Air Per Unit Area:	1.8041	CFM/Sq.ft
Area Per Cooling Capacity:	336.2	Sq.ft/Ton
Cooling Capacity Per Area:	0.0030	Tons/Sq.ft

Air Handler #15 - CheckStands - Total Load Summary (cont'd)

Check Figures

Heating Capacity Per Area:	7.99	Btuh/Sq.ft
Total Heating Required With Outside Air:	48,337	Btuh
Total Cooling Required With Outside Air:	18.00	Tons

Air Handler #16 - SE Sales - Total Load Summary

Air Handler Description: SE Sales Constant Volume - Sum of Peaks
Supply Air Fan: Draw-Thru with program estimated horsepower of 0.63 HP
Fan Input: 0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio: 0.80 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 5pm in August.
Outdoor Conditions: Clg: 93° DB, 62° WB, 48.67 grains, Htg: 0° DB
Indoor Conditions: Clg: 70° DB, 25% RH, Htg: 72° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	17,523 Btuh		
Infiltration sensible loss:	0 Btuh	0 CFM	
Outside Air sensible loss:	58,394 Btuh	884 CFM	
Supply Duct sensible loss:	0 Btuh		
Return Duct sensible loss:	0 Btuh		
Return Plenum sensible loss:	0 Btuh		
Total System sensible loss:			75,917 Btuh
Heating Supply Air: 17,523 / (.849 X 1.08 X 22) =		884 CFM	
Winter Vent Outside Air (100.0% of supply) =		884 CFM	
Room space sensible gain:	92,199 Btuh		
Infiltration sensible gain:	0 Btuh		
Draw-thru fan sensible gain:	1,364 Btuh		
Supply duct sensible gain:	0 Btuh		
Reserve sensible gain:	0 Btuh		
Total sensible gain on supply side of coil:			93,563 Btuh
Cooling Supply Air: 93,928 / (.849 X 1.1 X 15) =		6,702 CFM	
Summer Vent Outside Air (13.2% of supply) =		884 CFM	
Return duct sensible gain:	0 Btuh		
Return plenum sensible gain:	0 Btuh		
Outside air sensible gain:	18,999 Btuh	884 CFM	
Blow-thru fan sensible gain:	0 Btuh		
Total sensible gain on return side of coil:			18,999 Btuh
Total sensible gain on air handling system:			112,562 Btuh
Room space latent gain:	23,000 Btuh		
Infiltration latent gain:	0 Btuh		
Outside air latent gain:	8,400 Btuh		
Total latent gain on air handling system:			31,400 Btuh
Total system sensible and latent gain:			143,962 Btuh

Check Figures

Total Air Handler Supply Air (based on a 15° TD):	6,702	CFM
Total Air Handler Vent. Air (13.19% of Supply):	884	CFM
Total Conditioned Air Space:	9,735	Sq.ft
Supply Air Per Unit Area:	0.6884	CFM/Sq.ft
Area Per Cooling Capacity:	811.5	Sq.ft/Ton
Cooling Capacity Per Area:	0.0012	Tons/Sq.ft

Air Handler #16 - SE Sales - Total Load Summary (cont'd)

Check Figures

Heating Capacity Per Area:	7.80	Btuh/Sq.ft
Total Heating Required With Outside Air:	75,917	Btuh
Total Cooling Required With Outside Air:	12.00	Tons

design Sequence
350 South 200 East, #106
Salt Lake City, Utah 84111
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DesignUtah.com

HARMONS

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 11, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
PVE PROJECT NO: 26076.00
DRAWN BY: BNS
CONTACT: BSPARKS@PVE-UT.COM
DWG TYPE:
ARCHITECTURAL PHASE: BID SET
SHEET TITLE

HVAC SPACE LOAD CALCULATIONS

M5.4

PVE
1040 N 2200 WEST SALT LAKE CITY UTAH
T: 801.359.3158 www.pve-ut.com

Air Handler #13 - NE Sales - Total Load Summary

Air Handler Description:	NE Sales Constant Volume - Sum of Peaks
Supply Air Fan:	Draw-Thru with program estimated horsepower of 1.38 HP
Fan Input:	0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio:	0.79 --- This system occurs 1 time(s) in the building. ---
Air System Peak Time:	5pm in August.
Outdoor Conditions:	Clg: 93° DB, 62° WB, 48.67 grains, Htg: 0° DB
Indoor Conditions:	Clg: 70° DB (avg.), 25% RH, Htg: 72° DB (avg.)

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	19,768	Btuh		
Infiltration sensible loss:	0	Btuh	0	CFM
Outside Air sensible loss:	40,858	Btuh	619	CFM
Supply Duct sensible loss:	0	Btuh		
Return Duct sensible loss:	0	Btuh		
Return Plenum sensible loss:	0	Btuh		
Total System sensible loss:				60,626 Btuh
Heating Supply Air: 19,768 / (.849 X 1.08 X 28) =			770	CFM
Winter Vent Outside Air (80.4% of supply) =			619	CFM
Room space sensible gain:	202,328	Btuh		
Infiltration sensible gain:	0	Btuh		
Draw-thru fan sensible gain:	2,987	Btuh		
Supply duct sensible gain:	0	Btuh		
Reserve sensible gain:	0	Btuh		
Total sensible gain on supply side of coil:				205,315 Btuh
Cooling Supply Air: 205,704 / (.849 X 1.1 X 15) =			14,677	CFM
Summer Vent Outside Air (4.2% of supply) =			619	CFM
Return duct sensible gain:	0	Btuh		
Return plenum sensible gain:	0	Btuh		
Outside air sensible gain:	13,294	Btuh	619	CFM
Blow-thru fan sensible gain:	0	Btuh		
Total sensible gain on return side of coil:				13,294 Btuh
Total sensible gain on air handling system:				218,609 Btuh
Room space latent gain:	55,250	Btuh		
Infiltration latent gain:	0	Btuh		
Outside air latent gain:	5,877	Btuh		
Total latent gain on air handling system:				61,127 Btuh
Total system sensible and latent gain:				279,736 Btuh

Check Figures

Total Air Handler Supply Air (based on a 15° TD):	14,677	CFM
Total Air Handler Vent. Air (4.21% of Supply):	619	CFM
Total Conditioned Air Space:	7,185	Sq.ft
Supply Air Per Unit Area:	2.0428	CFM/Sq.ft
Area Per Cooling Capacity:	308.2	Sq.ft/Ton
Cooling Capacity Per Area:	0.0032	Tons/Sq.ft

Air Handler #13 - NE Sales - Total Load Summary (cont'd)

Check Figures

Heating Capacity Per Area:	8.44	Btuh/Sq.ft
Total Heating Required With Outside Air:	60,626	Btuh
Total Cooling Required With Outside Air:	23.31	Tons

Air Handler #14 - NW Sales - Total Load Summary

Air Handler Description:	NW Sales Constant Volume - Sum of Peaks
Supply Air Fan:	Draw-Thru with program estimated horsepower of 1.20 HP
Fan Input:	0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio:	0.78 --- This system occurs 1 time(s) in the building. ---
Air System Peak Time:	5pm in August.
Outdoor Conditions:	Clg: 93° DB, 62° WB, 48.67 grains, Htg: 0° DB
Indoor Conditions:	Clg: 70° DB (avg.), 25% RH, Htg: 72° DB (avg.)

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	17,081	Btuh		
Infiltration sensible loss:	0	Btuh	0	CFM
Outside Air sensible loss:	37,093	Btuh	562	CFM
Supply Duct sensible loss:	0	Btuh		
Return Duct sensible loss:	0	Btuh		
Return Plenum sensible loss:	0	Btuh		
Total System sensible loss:				54,175 Btuh
Heating Supply Air: 17,081 / (.849 X 1.08 X 28) =			665	CFM
Winter Vent Outside Air (84.4% of supply) =			562	CFM
Room space sensible gain:	174,614	Btuh		
Infiltration sensible gain:	0	Btuh		
Draw-thru fan sensible gain:	2,578	Btuh		
Supply duct sensible gain:	0	Btuh		
Reserve sensible gain:	0	Btuh		
Total sensible gain on supply side of coil:				177,192 Btuh
Cooling Supply Air: 177,528 / (.849 X 1.1 X 15) =			12,667	CFM
Summer Vent Outside Air (4.4% of supply) =			562	CFM
Return duct sensible gain:	0	Btuh		
Return plenum sensible gain:	0	Btuh		
Outside air sensible gain:	12,069	Btuh	562	CFM
Blow-thru fan sensible gain:	0	Btuh		
Total sensible gain on return side of coil:				12,069 Btuh
Total sensible gain on air handling system:				189,261 Btuh
Room space latent gain:	48,250	Btuh		
Infiltration latent gain:	0	Btuh		
Outside air latent gain:	5,336	Btuh		
Total latent gain on air handling system:				53,586 Btuh
Total system sensible and latent gain:				242,846 Btuh

Check Figures

Total Air Handler Supply Air (based on a 15° TD):	12,667	CFM
Total Air Handler Vent. Air (4.43% of Supply):	562	CFM
Total Conditioned Air Space:	6,235	Sq.ft
Supply Air Per Unit Area:	2.0316	CFM/Sq.ft
Area Per Cooling Capacity:	308.1	Sq.ft/Ton
Cooling Capacity Per Area:	0.0032	Tons/Sq.ft

Air Handler #14 - NW Sales - Total Load Summary (cont'd)

Check Figures

Heating Capacity Per Area:	8.69	Btuh/Sq.ft
Total Heating Required With Outside Air:	54,175	Btuh
Total Cooling Required With Outside Air:	20.24	Tons

Air Handler #15 - CheckStands - Total Load Summary

Air Handler Description:	CheckStands Constant Volume - Sum of Peaks
Supply Air Fan:	Draw-Thru with program estimated horsepower of 1.03 HP
Fan Input:	0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio:	0.78 --- This system occurs 1 time(s) in the building. ---
Air System Peak Time:	5pm in August.
Outdoor Conditions:	Clg: 93° DB, 62° WB, 48.67 grains, Htg: 0° DB
Indoor Conditions:	Clg: 70° DB (avg.), 25% RH, Htg: 72° DB (avg.)

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	7,011	Btuh		
Infiltration sensible loss:	0	Btuh	0	CFM
Outside Air sensible loss:	41,326	Btuh	626	CFM
Supply Duct sensible loss:	0	Btuh		
Return Duct sensible loss:	0	Btuh		
Return Plenum sensible loss:	0	Btuh		
Total System sensible loss:				48,337 Btuh
Heating Supply Air: 7,011 / (.849 X 1.08 X 12) =			626	CFM
Winter Vent Outside Air (100.0% of supply) =			626	CFM
Room space sensible gain:	150,679	Btuh		
Infiltration sensible gain:	0	Btuh		
Draw-thru fan sensible gain:	2,222	Btuh		
Supply duct sensible gain:	0	Btuh		
Reserve sensible gain:	0	Btuh		
Total sensible gain on supply side of coil:				152,901 Btuh
Cooling Supply Air: 153,047 / (.849 X 1.1 X 15) =			10,920	CFM
Summer Vent Outside Air (5.7% of supply) =			626	CFM
Return duct sensible gain:	0	Btuh		
Return plenum sensible gain:	0	Btuh		
Outside air sensible gain:	13,446	Btuh	626	CFM
Blow-thru fan sensible gain:	0	Btuh		
Total sensible gain on return side of coil:				13,446 Btuh
Total sensible gain on air handling system:				166,347 Btuh
Room space latent gain:	43,750	Btuh		
Infiltration latent gain:	0	Btuh		
Outside air latent gain:	5,945	Btuh		
Total latent gain on air handling system:				49,695 Btuh
Total system sensible and latent gain:				216,041 Btuh

Check Figures

Total Air Handler Supply Air (based on a 15° TD):	10,920	CFM
Total Air Handler Vent. Air (5.73% of Supply):	626	CFM
Total Conditioned Air Space:	6,053	Sq.ft
Supply Air Per Unit Area:	1.8041	CFM/Sq.ft
Area Per Cooling Capacity:	336.2	Sq.ft/Ton
Cooling Capacity Per Area:	0.0030	Tons/Sq.ft

Air Handler #15 - CheckStands - Total Load Summary (cont'd)

Check Figures

Heating Capacity Per Area:	7.99	Btuh/Sq.ft
Total Heating Required With Outside Air:	48,337	Btuh
Total Cooling Required With Outside Air:	18.00	Tons

Air Handler #16 - SE Sales - Total Load Summary

Air Handler Description:	SE Sales Constant Volume - Sum of Peaks
Supply Air Fan:	Draw-Thru with program estimated horsepower of 0.63 HP
Fan Input:	0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio:	0.80 --- This system occurs 1 time(s) in the building. ---
Air System Peak Time:	5pm in August.
Outdoor Conditions:	Clg: 93° DB, 62° WB, 48.67 grains, Htg: 0° DB
Indoor Conditions:	Clg: 70° DB, 25% RH, Htg: 72° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	17,523	Btuh		
Infiltration sensible loss:	0	Btuh	0	CFM
Outside Air sensible loss:	58,394	Btuh	884	CFM
Supply Duct sensible loss:	0	Btuh		
Return Duct sensible loss:	0	Btuh		
Return Plenum sensible loss:	0	Btuh		
Total System sensible loss:				75,917 Btuh
Heating Supply Air: 17,523 / (.849 X 1.08 X 22) =			884	CFM
Winter Vent Outside Air (100.0% of supply) =			884	CFM
Room space sensible gain:	92,199	Btuh		
Infiltration sensible gain:	0	Btuh		
Draw-thru fan sensible gain:	1,364	Btuh		
Supply duct sensible gain:	0	Btuh		
Reserve sensible gain:	0	Btuh		
Total sensible gain on supply side of coil:				93,563 Btuh
Cooling Supply Air: 93,928 / (.849 X 1.1 X 15) =			6,702	CFM
Summer Vent Outside Air (13.2% of supply) =			884	CFM
Return duct sensible gain:	0	Btuh		
Return plenum sensible gain:	0	Btuh		
Outside air sensible gain:	18,999	Btuh	884	CFM
Blow-thru fan sensible gain:	0	Btuh		
Total sensible gain on return side of coil:				18,999 Btuh
Total sensible gain on air handling system:				112,562 Btuh
Room space latent gain:	23,000	Btuh		
Infiltration latent gain:	0	Btuh		
Outside air latent gain:	8,400	Btuh		
Total latent gain on air handling system:				31,400 Btuh
Total system sensible and latent gain:				143,962 Btuh

Check Figures

Total Air Handler Supply Air (based on a 15° TD):	6,702	CFM
Total Air Handler Vent. Air (13.19% of Supply):	884	CFM
Total Conditioned Air Space:	9,735	Sq.ft
Supply Air Per Unit Area:	0.6884	CFM/Sq.ft
Area Per Cooling Capacity:	811.5	Sq.ft/Ton
Cooling Capacity Per Area:	0.0012	Tons/Sq.ft

Air Handler #16 - SE Sales - Total Load Summary (cont'd)

Check Figures

Heating Capacity Per Area:	7.80	Btuh/Sq.ft
Total Heating Required With Outside Air:	75,917	Btuh
Total Cooling Required With Outside Air:	12.00	Tons

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HARMONS

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 11, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
PVE PROJECT NO: 26076.00
DRAWN BY: BNS
CONTACT: BSPARKS@PVE-UT.COM
DWG TYPE:
ARCHITECTURAL PHASE: BID SET
SHEET TITLE

HVAC SPACE LOAD CALCULATIONS

M5.5

PVE
1040 N 2200 WEST SALT LAKE CITY UTAH
T: 801.359.3158 www.pve-ut.com

Air Handler #17 - SW Sales - Total Load Summary

Air Handler Description: SW Sales Constant Volume - Sum of Peaks
Supply Air Fan: Draw-Thru with program estimated horsepower of 0.79 HP
Fan Input: 0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio: 0.80 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 5pm in August.
Outdoor Conditions: Clg: 93° DB, 62° WB, 48.67 grains, Htg: 0° DB
Indoor Conditions: Clg: 70° DB, 25% RH, Htg: 75° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	18,161 Btuh		
Infiltration sensible loss:	0 Btuh	0 CFM	
Outside Air sensible loss:	69,971 Btuh	1,017 CFM	
Supply Duct sensible loss:	0 Btuh		
Return Duct sensible loss:	0 Btuh		
Return Plenum sensible loss:	0 Btuh		
Total System sensible loss:			88,132 Btuh
Heating Supply Air: 18,161 / (.849 X 1.08 X 19) =		1,017 CFM	
Winter Vent Outside Air (100.0% of supply) =		1,017 CFM	
Room space sensible gain:	115,912 Btuh		
Infiltration sensible gain:	0 Btuh		
Draw-thru fan sensible gain:	1,713 Btuh		
Supply duct sensible gain:	0 Btuh		
Reserve sensible gain:	0 Btuh		
Total sensible gain on supply side of coil:			117,625 Btuh
Cooling Supply Air: 117,988 / (.849 X 1.1 X 15) =		8,419 CFM	
Summer Vent Outside Air (12.1% of supply) =		1,017 CFM	
Return duct sensible gain:	0 Btuh		
Return plenum sensible gain:	0 Btuh		
Outside air sensible gain:	21,855 Btuh	1,017 CFM	
Blow-thru fan sensible gain:	0 Btuh		
Total sensible gain on return side of coil:			21,855 Btuh
Total sensible gain on air handling system:			139,480 Btuh
Room space latent gain:	29,250 Btuh		
Infiltration latent gain:	0 Btuh		
Outside air latent gain:	9,663 Btuh		
Total latent gain on air handling system:			38,913 Btuh
Total system sensible and latent gain:			178,393 Btuh

Check Figures

Total Air Handler Supply Air (based on a 15° TD):	8,419	CFM
Total Air Handler Vent. Air (12.08% of Supply):	1,017	CFM
Total Conditioned Air Space:	11,325	Sq.ft
Supply Air Per Unit Area:	0.7434	CFM/Sq.ft
Area Per Cooling Capacity:	761.8	Sq.ft/Ton
Cooling Capacity Per Area:	0.0013	Tons/Sq.ft

Air Handler #17 - SW Sales - Total Load Summary (cont'd)

Check Figures

Heating Capacity Per Area:	7.78	Btuh/Sq.ft
Total Heating Required With Outside Air:	88,132	Btuh
Total Cooling Required With Outside Air:	14.87	Tons

Air Handler #18 - Dock Office - Total Load Summary

Air Handler Description: Dock Office Constant Volume - Sum of Peaks
Supply Air Fan: Draw-Thru with program estimated horsepower of 0.04 HP
Fan Input: 0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio: 0.74 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 3pm in August.
Outdoor Conditions: Clg: 96° DB, 62° WB, 43.59 grains, Htg: 0° DB
Indoor Conditions: Clg: 70° DB, 20% RH, Htg: 72° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	0 Btuh		
Infiltration sensible loss:	0 Btuh	0 CFM	
Outside Air sensible loss:	993 Btuh	15 CFM	
Supply Duct sensible loss:	0 Btuh		
Return Duct sensible loss:	0 Btuh		
Return Plenum sensible loss:	0 Btuh		
Total System sensible loss:			993 Btuh
Heating Supply Air: 0 / (.849 X 1.08 X 0) =		0 CFM	
Winter Vent Outside Air (0.0% of supply) =		15 CFM	
Room space sensible gain:	6,005 Btuh		
Infiltration sensible gain:	0 Btuh		
Draw-thru fan sensible gain:	88 Btuh		
Supply duct sensible gain:	0 Btuh		
Reserve sensible gain:	0 Btuh		
Total sensible gain on supply side of coil:			6,093 Btuh
Cooling Supply Air: 6,093 / (.849 X 1.1 X 15) =		435 CFM	
Summer Vent Outside Air (2.3% of supply) =		10 CFM	
Return duct sensible gain:	0 Btuh		
Return plenum sensible gain:	0 Btuh		
Outside air sensible gain:	246 Btuh	10 CFM	
Blow-thru fan sensible gain:	0 Btuh		
Total sensible gain on return side of coil:			246 Btuh
Total sensible gain on air handling system:			6,339 Btuh
Room space latent gain:	2,100 Btuh		
Infiltration latent gain:	0 Btuh		
Outside air latent gain:	106 Btuh		
Total latent gain on air handling system:			2,206 Btuh
Total system sensible and latent gain:			8,545 Btuh

Check Figures

Total Air Handler Supply Air (based on a 15° TD):	435	CFM
Total Air Handler Vent. Air (2.33% of Supply):	10	CFM
Total Conditioned Air Space:	84	Sq.ft
Supply Air Per Unit Area:	5.1756	CFM/Sq.ft
Area Per Cooling Capacity:	118.0	Sq.ft/Ton
Cooling Capacity Per Area:	0.0085	Tons/Sq.ft

Air Handler #18 - Dock Office - Total Load Summary (cont'd)

Check Figures

Heating Capacity Per Area:	11.83	Btuh/Sq.ft
Total Heating Required With Outside Air:	993	Btuh
Total Cooling Required With Outside Air:	0.71	Tons

Air Handler #19 - Dock Office / Storage - Total Load Summary

Air Handler Description: Dock Office / Storage Constant Volume - Sum of Peaks
Supply Air Fan: Draw-Thru with program estimated horsepower of 0.09 HP
Fan Input: 0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio: 0.75 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 5pm in August.
Outdoor Conditions: Clg: 93° DB, 62° WB, 48.67 grains, Htg: 0° DB
Indoor Conditions: Clg: 70° DB, 20% RH, Htg: 72° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	567 Btuh		
Infiltration sensible loss:	0 Btuh	0 CFM	
Outside Air sensible loss:	2,569 Btuh	39 CFM	
Supply Duct sensible loss:	0 Btuh		
Return Duct sensible loss:	0 Btuh		
Return Plenum sensible loss:	0 Btuh		
Total System sensible loss:			3,136 Btuh
Heating Supply Air: 567 / (.849 X 1.08 X 16) =		39 CFM	
Winter Vent Outside Air (100.0% of supply) =		39 CFM	
Room space sensible gain:	12,661 Btuh		
Infiltration sensible gain:	0 Btuh		
Draw-thru fan sensible gain:	187 Btuh		
Supply duct sensible gain:	0 Btuh		
Reserve sensible gain:	0 Btuh		
Total sensible gain on supply side of coil:			12,848 Btuh
Cooling Supply Air: 12,859 / (.849 X 1.1 X 15) =		918 CFM	
Summer Vent Outside Air (4.2% of supply) =		39 CFM	
Return duct sensible gain:	0 Btuh		
Return plenum sensible gain:	0 Btuh		
Outside air sensible gain:	836 Btuh	39 CFM	
Blow-thru fan sensible gain:	0 Btuh		
Total sensible gain on return side of coil:			836 Btuh
Total sensible gain on air handling system:			13,684 Btuh
Room space latent gain:	4,200 Btuh		
Infiltration latent gain:	0 Btuh		
Outside air latent gain:	514 Btuh		
Total latent gain on air handling system:			4,714 Btuh
Total system sensible and latent gain:			18,397 Btuh

Check Figures

Total Air Handler Supply Air (based on a 15° TD):	918	CFM
Total Air Handler Vent. Air (4.24% of Supply):	39	CFM
Total Conditioned Air Space:	315	Sq.ft
Supply Air Per Unit Area:	2.9127	CFM/Sq.ft
Area Per Cooling Capacity:	205.5	Sq.ft/Ton
Cooling Capacity Per Area:	0.0049	Tons/Sq.ft

Air Handler #19 - Dock Office / Storage - Total Load Summary (cont'd)

Check Figures

Heating Capacity Per Area:	9.96	Btuh/Sq.ft
Total Heating Required With Outside Air:	3,136	Btuh
Total Cooling Required With Outside Air:	1.53	Tons

Air Handler #20 - E Shop - Total Load Summary

Air Handler Description: E Shop Constant Volume - Sum of Peaks
Supply Air Fan: Draw-Thru with program estimated horsepower of 0.09 HP
Fan Input: 0% motor and fan efficiency with 0 in. water across the fan
Sensible Heat Ratio: 0.75 --- This system occurs 1 time(s) in the building. ---

Air System Peak Time: 5pm in August.
Outdoor Conditions: Clg: 93° DB, 62° WB, 48.67 grains, Htg: 0° DB
Indoor Conditions: Clg: 72° DB, 20% RH, Htg: 72° DB

Summer: Ventilation controls outside air, ----- Winter: Ventilation controls outside air.

Room Space sensible loss:	4,517 Btuh		
Infiltration sensible loss:	0 Btuh	0 CFM	
Outside Air sensible loss:	6,388 Btuh	97 CFM	
Supply Duct sensible loss:	0 Btuh		
Return Duct sensible loss:	0 Btuh		
Return Plenum sensible loss:	0 Btuh		
Total System sensible loss:			10,906 Btuh
Heating Supply Air: 4,517 / (.849 X 1.08 X 28) =		176 CFM	
Winter Vent Outside Air (55.0% of supply) =		97 CFM	
Room space sensible gain:	15,213 Btuh		
Infiltration sensible gain:	0 Btuh		
Draw-thru fan sensible gain:	198 Btuh		
Supply duct sensible gain:	0 Btuh		
Reserve sensible gain:	0 Btuh		
Total sensible gain on supply side of coil:			15,411 Btuh
Cooling Supply Air: 15,478 / (.849 X 1.1 X 17) =		974 CFM	
Summer Vent Outside Air (9.9% of supply) =		97 CFM	
Return duct sensible gain:	0 Btuh		
Return plenum sensible gain:	0 Btuh		
Outside air sensible gain:	1,898 Btuh	97 CFM	
Blow-thru fan sensible gain:	0 Btuh		
Total sensible gain on return side of coil:			1,898 Btuh
Total sensible gain on air handling system:			17,309 Btuh
Room space latent gain:	5,100 Btuh		
Infiltration latent gain:	0 Btuh		
Outside air latent gain:	1,177 Btuh		
Total latent gain on air handling system:			6,277 Btuh
Total system sensible and latent gain:			23,586 Btuh

Check Figures

Total Air Handler Supply Air (based on a 17° TD):	974	CFM
Total Air Handler Vent. Air (9.93% of Supply):	97	CFM
Total Conditioned Air Space:	612	Sq.ft
Supply Air Per Unit Area:	1.5922	CFM/Sq.ft
Area Per Cooling Capacity:	311.4	Sq.ft/Ton
Cooling Capacity Per Area:	0.0032	Tons/Sq.ft

Air Handler #20 - E Shop - Total Load Summary (cont'd)

Check Figures

Heating Capacity Per Area:	17.82	Btuh/Sq.ft
Total Heating Required With Outside Air:	10,906	Btuh
Total Cooling Required With Outside Air:	1.97	Tons

design
Sequence
350 South 200 East, #106
Salt Lake City, Utah 84111
P: 801.596.0691
DesignUtah.com

HARMONS

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 11, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
PVE PROJECT NO: 26076.00

DRAWN BY: BNS
CONTACT: BSPARKS@PVE-UT.COM
DWG TYPE:
ARCHITECTURAL PHASE: BID SET

SHEET TITLE

HVAC SPACE LOAD CALCULATIONS

M5.6

PVE
1040 N 2200 WEST SALT LAKE CITY UTAH
T: 801.359.3158 www.pve-ut.com

COMcheck-Web™

Compliance Certificate

Project Information

Energy Code:	2024 IECC
Project Title:	Harmons Spanish Fork
Location:	Spanish Fork, Utah
Climate Zone:	5b
Project Type:	New Construction
Project No:	122108
Project Sub Type:	New Building/Complete
All Electric:	false
Is Renewable:	true
Has Battery:	false
Has Charger:	false
Has Heat Pump	true

Construction Site: **Owner/Agent:** **Designer/Contractor:**

Notes:

Energy Credits

Description	Credit
H02 More efficient HVAC equipment heating performance	0.0
H03 More efficiency HVAC cooling equipment and fan performance	4.0
W03 Efficient fossil fuel water heater	10.0
W06 Thermostatic balancing valves	1.0
W04 Service hot water piping insulation increase	4.0
E04 Added roof insulation (Additional R-10)	22.0
E05 Added wall insulation (Additional R-5)	24.0
L04 Increased daylight area	0.0

Credits: 62.0 Required 65.0 Proposed

Renewable energy

Number of Floors:	1
Area of Three Largest Floors:	66847
Proposed Capacity:	51000
Required Capacity:	50135
Proposed Off-site Energy:	0
Required Off-site Energy:	0
Exception:	None

On-Site Renewable Energy

System	Capacity	Units
Solar PV	51000	Watts

Renewables Pass

Building Area

Description	Floor Area
1-Retail (Retail) : Nonresidential	66847

Quantity	Component	Description
2	WH.2, 3:	Gas Storage Water Heater, Capacity: 100 gallons, Input Rating: 200 kBtu/h w/ Circulation Pump Proposed Efficiency: 97.00 Et, Required Efficiency: 80.00 Et
1	EWH.1:	Electric Instantaneous Water Heater, Capacity: 0 gallons No minimum efficiency requirement applies

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2024 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Brad N Sparks - Project Manager — 8.12.26

Name - Title **Signature** **Date**

Quantity	Component	Description
1	AC.6 (Single Zone):	Split System Heat Pump Heating Mode: Capacity = 40 kBtu/h, Proposed Efficiency = 8.40 HSPF2, Required Efficiency = 7.50 HSPF2 Cooling Mode: Capacity = 36 kBtu/h, Proposed Efficiency = 19.00 SEER2, Required Efficiency = 14.30 SEER2 Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: Unspecified
1	AC.8 (Single Zone):	Split System Heat Pump Heating Mode: Capacity = 54 kBtu/h, Proposed Efficiency = 8.70 HSPF2, Required Efficiency = 7.50 HSPF2 Cooling Mode: Capacity = 48 kBtu/h, Proposed Efficiency = 17.80 SEER2, Required Efficiency = 14.30 SEER2 Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: Unspecified
2	AC.9, 10 (Single Zone):	Split System Heat Pump Heating Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 8.30 HSPF2, Required Efficiency = 7.50 HSPF2 Cooling Mode: Capacity = 30 kBtu/h, Proposed Efficiency = 20.00 SEER2, Required Efficiency = 14.30 SEER2 Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: Unspecified
3	UH.1,2,3 (Single Zone w/ PerimeterSystem):	Heating: 1 each - Unit Heater (UH.1,2,3), Gas, Capacity = 100 kBtu/h Proposed Efficiency = 83.00% Ec, Required Efficiency: 80.00 % Ec Fan System: Unspecified
1	UH.4 (Unknown w/ PerimeterSystem):	Heating: 1 each - Unit Heater (UH.4), Gas, Capacity = 75 kBtu/h Proposed Efficiency = 83.00% Ec, Required Efficiency: 80.00 % Ec Fan System: Unspecified
1	EUH (Single Zone w/ PerimeterSystem):	Heating: 1 each - Unit Heater (EUH), Electric, Capacity = 9 kBtu/h No minimum efficiency requirement applies Fan System: Unspecified
1	DOAS.1 (Single Zone):	Single Package Heat Pump Heating Mode: Capacity = 160 kBtu/h, Proposed Efficiency = 3.40 COPH, Required Efficiency = 3.20 COPH Cooling Mode: Capacity = 256 kBtu/h, , Air Economizer Proposed Efficiency = 18.20 IEER, Required Efficiency = 12.50 IEER Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: Unspecified
1	DOAS.2 (Single Zone):	Single Package Heat Pump Heating Mode: Capacity = 94 kBtu/h, Proposed Efficiency = 3.90 COPH, Required Efficiency = 3.30 COPH Cooling Mode: Capacity = 149 kBtu/h, , Air Economizer Proposed Efficiency = 21.30 IEER, Required Efficiency = 13.50 IEER Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: Unspecified
1	DOAS.3 (Single Zone):	Single Package Heat Pump Heating Mode: Capacity = 94 kBtu/h, Proposed Efficiency = 3.90 COPH, Required Efficiency = 3.30 COPH Cooling Mode: Capacity = 149 kBtu/h, , Air Economizer Proposed Efficiency = 21.30 IEER, Required Efficiency = 13.50 IEER Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: Unspecified
1	DOAS.4 (Single Zone):	Single Package Heat Pump Heating Mode: Capacity = 94 kBtu/h, Proposed Efficiency = 3.90 COPH, Required Efficiency = 3.30 COPH Cooling Mode: Capacity = 149 kBtu/h, , Air Economizer Proposed Efficiency = 21.30 IEER, Required Efficiency = 13.50 IEER Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: Unspecified
Water Heaters		
3	TWH.1,2,3:	Gas Instantaneous Water Heater, Capacity: 0 gallons, Input Rating: 199 kBtu/h w/ Circulation Pump No minimum efficiency requirement applies
1	WH.1:	Gas Storage Water Heater, Capacity: 60 gallons, Input Rating: 125 kBtu/h w/ Circulation Pump Proposed Efficiency: 96.00 Et, Required Efficiency: 80.00 Et

Inspection Checklist

Energy Code: 2024 IECC

Requirements: 99% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Plan Review

Section & Req.ID	Plan Review	Complies?	Comments/Assumptions
C105.2 [PR2]1	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical and service water heating systems and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks. Hot water system sized per manufacturer's sizing guide.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M5 sheets

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Footing / Foundation Inspection

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.14.2, C403.14.3 [FO7]1	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature above 50F and outdoor temperature above 40F.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Mechanical Compliance Certificate

Project Information

Energy Code:	2024 IECC
Project Title:	Harmons Spanish Fork
Location:	Spanish Fork, Utah
Climate Zone:	5b
Project Type:	New Construction

Construction Site: **Owner/Agent:** **Designer/Contractor:**

Mechanical Systems List

Quantity	Component	Description
HVAC Systems		
1	RTU.1 South Seating (Single Zone):	Single Package Heat Pump Heating Mode: Capacity = 148 kBtu/h, Proposed Efficiency = 3.30 COPH, Required Efficiency = 3.30 COPH Cooling Mode: Capacity = 144 kBtu/h, , Air Economizer Proposed Efficiency = 15.10 IEER, Required Efficiency = 13.50 IEER Proposed Part Load Efficiency = 20.10 , Required Part Load Efficiency = 0.00 Fan System: Unspecified
1	AC.1 (Single Zone):	Split System Heat Pump Heating Mode: Capacity = 27 kBtu/h, Proposed Efficiency = 10.60 HSPF2, Required Efficiency = 7.50 HSPF2 Cooling Mode: Capacity = 14 kBtu/h, Proposed Efficiency = 18.50 SEER2, Required Efficiency = 14.30 SEER2 Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: Unspecified
1	AC.2 (Single Zone):	Split System Heat Pump Heating Mode: Capacity = 11 kBtu/h, Proposed Efficiency = 10.50 HSPF2, Required Efficiency = 7.50 HSPF2 Cooling Mode: Capacity = 9 kBtu/h, Proposed Efficiency = 25.00 SEER2, Required Efficiency = 14.30 SEER2 Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: Unspecified
1	AC.3 (Single Zone):	Split System Heat Pump Heating Mode: Capacity = 20 kBtu/h, Proposed Efficiency = 7.50 HSPF2, Required Efficiency = 7.50 HSPF2 Cooling Mode: Capacity = 18 kBtu/h, Proposed Efficiency = 18.50 SEER2, Required Efficiency = 14.30 SEER2 Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: Unspecified
2	AC.4,7 (Single Zone):	Split System Heat Pump Heating Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 8.40 HSPF2, Required Efficiency = 7.50 HSPF2 Cooling Mode: Capacity = 30 kBtu/h, Proposed Efficiency = 18.20 SEER2, Required Efficiency = 14.30 SEER2 Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: Unspecified
1	AC.5 (Single Zone):	Split System Heat Pump Heating Mode: Capacity = 40 kBtu/h, Proposed Efficiency = 8.40 HSPF2, Required Efficiency = 7.50 HSPF2 Cooling Mode: Capacity = 36 kBtu/h, Proposed Efficiency = 19.00 SEER2, Required Efficiency = 14.30 SEER2 Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: Unspecified

Plumbing Rough-In Inspection

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL1]1	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C404.6.1, C404.6.1.1 [PL2]1	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** P6.1
C404.6.1, C404.6.2 [PL3]1	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** P6.2
C404.6.3 [PL4]1	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C404.7 [PL5]1	Drain water heat recovery (DWHR) units comply with CSA B55.2 with pressure loss < 10 psi at maximum flow. Group R occupancies have DWHR efficiencies in accordance with CSA B55.1.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Quantity	Component	Description
1	Elevator Seating (Single Zone):	Heating: 1 each - Central Furnace (RTU.2), Gas, Capacity = 147 kBtu/h Proposed Efficiency = 81.00% Et, Required Efficiency: 81.00 % Et or 80% AFUE Cooling: 1 each - Single Package DX Unit (RTU.2), Capacity = 97 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 0.00 , Required Efficiency = 0.00 Proposed Part Load Efficiency = 16.00 IEER, Required Part Load Efficiency = 14.60 IEER Fan System: Unspecified
1	Mezz. Offices (Multiple-Zone):	Heating: 1 each - Central Furnace (RTU.3), Gas, Capacity = 65 kBtu/h Proposed Efficiency = 81.00% Et, Required Efficiency: 81.00 % Et or 80% AFUE Cooling: 1 each - Single Package DX Unit (RTU.3), Capacity = 62 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 0.00 , Required Efficiency = 0.00 Proposed Part Load Efficiency = 16.00 SEER2, Required Part Load Efficiency = 13.40 SEER2 Fan System: Unspecified
1	Break / RR (Single Zone):	Heating: 1 each - Central Furnace (RTU.4), Gas, Capacity = 65 kBtu/h Proposed Efficiency = 81.00% Et, Required Efficiency: 81.00 % Et or 80% AFUE Cooling: 1 each - Single Package DX Unit (RTU.4), Capacity = 44 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 0.00 , Required Efficiency = 0.00 Proposed Part Load Efficiency = 14.70 SEER2, Required Part Load Efficiency = 13.40 SEER2 Fan System: Unspecified
1	Pharmacy (Single Zone):	Heating: 1 each - Central Furnace (RTU.5), Gas, Capacity = 65 kBtu/h Proposed Efficiency = 81.00% Et, Required Efficiency: 81.00 % Et or 80% AFUE Cooling: 1 each - Single Package DX Unit (RTU.5), Capacity = 48 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 0.00 , Required Efficiency = 0.00 Proposed Part Load Efficiency = 16.40 SEER2, Required Part Load Efficiency = 13.40 SEER2 Fan System: Unspecified
1	NE Sales (Single Zone):	Heating: 1 each - Central Furnace (RTU.6), Gas, Capacity = 327 kBtu/h Proposed Efficiency = 81.00% Et, Required Efficiency: 81.00 % Et Cooling: 1 each - Single Package DX Unit (RTU.6), Capacity = 257 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 0.00 , Required Efficiency = 0.00 Proposed Part Load Efficiency = 14.20 IEER, Required Part Load Efficiency = 13.00 IEER Fan System: Unspecified
1	NW Sales (Single Zone):	Heating: 1 each - Central Furnace (RTU.7), Gas, Capacity = 327 kBtu/h Proposed Efficiency = 81.00% Et, Required Efficiency: 81.00 % Et Cooling: 1 each - Single Package DX Unit (RTU.7), Capacity = 257 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 0.00 , Required Efficiency = 0.00 Proposed Part Load Efficiency = 14.20 IEER, Required Part Load Efficiency = 13.00 IEER Fan System: Unspecified
1	Checkstands (Single Zone):	Heating: 1 each - Central Furnace (RTU.8), Gas, Capacity = 327 kBtu/h Proposed Efficiency = 81.00% Et, Required Efficiency: 81.00 % Et Cooling: 1 each - Single Package DX Unit (RTU.8), Capacity = 208 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 0.00 , Required Efficiency = 0.00 Proposed Part Load Efficiency = 19.50 IEER, Required Part Load Efficiency = 14.00 IEER Fan System: Unspecified
1	SE Sales (Single Zone):	Heating: 1 each - Central Furnace (RTU.9), Gas, Capacity = 196 kBtu/h Proposed Efficiency = 81.00% Et, Required Efficiency: 81.00 % Et or 80% AFUE Cooling: 1 each - Single Package DX Unit (RTU.9), Capacity = 156 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 0.00 , Required Efficiency = 0.00 Proposed Part Load Efficiency = 15.20 IEER, Required Part Load Efficiency = 14.00 IEER Fan System: Unspecified
1	SW Sales (Single Zone):	Heating: 1 each - Central Furnace (RTU.10), Gas, Capacity = 327 kBtu/h Proposed Efficiency = 81.00% Et, Required Efficiency: 81.00 % Et Cooling: 1 each - Single Package DX Unit (RTU.10), Capacity = 177 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 0.00 , Required Efficiency = 0.00 Proposed Part Load Efficiency = 18.80 IEER, Required Part Load Efficiency = 14.00 IEER Fan System: Unspecified
1	South Seating 1 (Single Zone):	Heating: 1 each - Central Furnace (RTU.1), Gas, Capacity = 196 kBtu/h Proposed Efficiency = 81.00% Et, Required Efficiency: 81.00 % Et or 80% AFUE Fan System: Unspecified

Mechanical Rough-In Inspection

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.3 [ME1]1	HVAC equipment efficiency verified.	☐ Complies ☑ Does Not Comply ☐ Not Observable ☐ Not Applicable	*See the Mechanical Systems list for values*
C403.12.3, C403.12.3.1, C403.12.3.2 [ME13]1	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.12.3.1 and refrigeration compressor systems that comply with C403.12.3.2..	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.14.1 [ME14]1	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.13.1, C403.13.2 [ME15]1	HVAC ducts and plenums insulated in accordance with C403.13.1 and constructed in accordance with C403.13.3, verification may need to occur during Foundation Inspection.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.1
C403.13.3 [ME16]1	HVAC piping insulation insulated in accordance with Table C403.13.3. Insulation exposed to weather is protected from damage and is provided with shielding from solar radiation.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** P0.1, M0.1
C403.2.1 [ME17]1	Zone isolation devices and controls installed where applicable.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.2.2 [ME18]1	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.1
C403.3.3 [ME20]1	Hot gas bypass limited to: <=240 kBtu/h – 50% >240 kBtu/h – 25%	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.1
C403.4.1.3 [ME24]1	Where thermostatic control setpoints are adjustable by occupants or HVAC operators, the adjustments are independent for heating and cooling setpoint.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.1
C403.4.1.4 [ME25]1	Reset static pressure setpoint for DDC controlled VAV boxes reporting to central controller based on the zones requiring the most pressure.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.4.1.5 [ME26]1	Heating for vestibules and air curtains with integral heating are automatic controls that shut off the heating system when outdoor air temperature is > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.

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HARMONS

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 11, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
PVE PROJECT NO: 26076.00

DRAWN BY: BNS
CONTACT: BSPARKS@PVE-UT.COM
DWG TYPE:
ARCHITECTURAL PHASE: BID SET

SHEET TITLE

2024 IECC MECHANICAL / PLUMBING COMCHECK

M5.7

PVE
1040 N 2200 WEST SALT LAKE CITY UTAH
T: 801.359.3158 www.pve-ut.com

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.9 [ME35]^{I}	Large diameter fans where installed shall be tested and labeled in accordance with AMCA 230 and meet efficacy requirements of Table C403.9.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.4.3.3.2 [ME32]^{I}	Closed-circuit cooling tower within heat pump loop have either automatic bypass valve or lower-leakage positive closure dampers. Open-circuit tower within heat pump loop have automatic valve to bypass all heat pump water flow around the tower. Fan-assisted dry coolers and open-circuit towers used in conjunction with a separate heat exchanger have heat loss by shutting down the circulation pump on the cooling tower loop. Open- or closed circuit cooling towers have a separate heat exchanger to isolate the cooling tower from the heat pump loop, and heat loss is controlled by shutting down the circulation pump on the cooling tower loop.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.4.7 [ME35]^{I}	Doors or operable openings from conditioned space to outdoors > 40 sq ft contain automatic controls interlocked with the heating and cooling system.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Emergency exits.
C403.4.8.1 [ME36]^{I}	Dehumidification controls do not use mechanical cooling to reduce humidity < 60% or a dew point < 55F	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.4.8.2 [ME37]^{I}	Humidity controls do not use fossil fuel or electricity for a humidity > 30% in warmest zone.	☐ Complies ☑ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.4.8.3 [ME38]^{I}	Zones served by systems with both humidification and dehumidification prevent simultaneous operation.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.5, C403.5.1, C403.5.2 [ME39]^{I}	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.1
C403.5.2 [ME40]^{I}	Economizer operation will not increase heating energy use during normal operation.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.1
C404.2 [ME42]^{I}	Service water heating equipment meets efficiency requirements.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.5.3.3 [ME41]^{I}	Air economizers automatically reduce outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will not reduce cooling energy usage. See Table C403.5.3.3 for applicable device types and climate zones.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.1

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.8.3 [ME66]^{I}	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.4
C403.8.3 [ME66]^{I}	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.4
C403.8.3 [ME66]^{I}	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.4
C403.8.3 [ME66]^{I}	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐ Complies ☑ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.4
C403.15 [ME69]^{I}	Dehumidification systems for plant growth and maintenance are tested in accordance with DOE 10 CFR 430, has on-site heat recovery > 75% of dehumidification energy or ha a solid or liquid desiccant.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.16 [ME70]^{I}	Service water pressure boost systems contain pressure sensors for pump control, no devices used to reduce pressure and booster pumps do not operate when there is no service water flow.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.17 [ME71]^{I}	Clean water pumps achieve a pump energy index (PEI) <= 1.0.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C404.2.1 [ME72]^{I}	Gas-fired water-heating equipment installed in new buildings: where a singular piece of water-heating equipment >= 1,000 kBtu/h serves the entire building, thermal efficiency >= 92 Et. Where multiple pieces of water-heating equipment serve the building with combined rating >= 1,000 kBtu/h, the combined input-capacity-weighted-average thermal efficiency >= 90 Et. Exclude input rating of equipment in individual dwelling units and equipment <= 100 kBtu/h.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.2.2.1 [ME73]^{I}	Air outlets and zone terminal devices have means for air balancing.	☐ Complies ☑ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M Sheets

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.5.3.4 [ME42]^{I}	System capable of relieving excess outdoor air during air economizer operation to prevent over pressurizing the building. The relief air outlet located to avoid recirculation into the building.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.1
C403.5.3.5 [ME43]^{I}	Return, exhaust/relief and outdoor air dampers used in economizers have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Reference section C403.7.7 for details.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.1
C403.5.5 [ME45]^{I}	Fault detection and diagnostics installed with air-cooled unitary DX units or VRF units having economizers.	☐ Complies ☑ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.6.9 [ME54]^{I}	VAV fans have static pressure sensors located so controller setpoint <=1.2 w.c.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M6.1
C403.7.1 [ME56]^{I}	Demand control ventilation provided for spaces >250 ft2 and >15 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.1
C403.7.2 [ME57]^{I}	Enclosed parking garage ventilation has separate ventilation systems for each section, can reduce airflow < 0.05 cfm/sq ft of floor area and >20% of design capacity.	☐ Complies ☑ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.7.4 [ME59]^{I}	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Cooling energy recovery is not required in climate zones 3C, 4C, 5B, 5C, 6B, 7, and 8.
C403.7.5 [ME60]^{I}	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate table. Type I hoods in Group R-1 hotels contain demand control kitchen ventilation with > 50% reduction in exhaust.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.7.6 [ME61]^{I}	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	☐ Complies ☑ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.7.8, C403.7.8.1 [ME63]^{I}	Classrooms, training rooms, conference and multipurpose rooms, lounges, enclosed offices, open office areas and corridors contain occupied standby ventilation controls.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.8.1 [ME64]^{I}	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply. *See the Mechanical Systems list for values*

Rough-In Electrical Inspection

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.7 [EL3]^{I}	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C405.8 [EL4]^{I}	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.1
C405.10 [EL1]^{I}	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C405.10.1, C405.10.2 [EL5]^{I}	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C405.13 [EL2]^{I}	Buildings with gross conditioned floor area > 10,000 ft2 will be equipped with a energy monitoring system in compliance with C405.13.1 through C405.13.11.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C405.12, C405.12.1 [EL6]^{I}	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.12.1.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.8.3 [ME66]^{I}	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.4
C403.8.3 [ME66]^{I}	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.4
C403.8.3 [ME66]^{I}	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.4
C403.8.3 [ME66]^{I}	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.4
C403.8.3 [ME66]^{I}	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.4
C403.8.3 [ME66]^{I}	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.4
C403.8.3 [ME66]^{I}	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.4
C403.8.3 [ME66]^{I}	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.4
C403.8.3 [ME66]^{I}	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.4

Final Inspection

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C403.1.1 [FI12]^{I}	HVAC systems and equipment design loads calculated in accordance with ANSI/ASHRAE/ACCA Standard 183 or by an approved equivalent computational procedure	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M5 Sheets
C403.3.1 [FI13]^{I}	HVAC systems and equipment capacity does not exceed calculated loads.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M5 Sheets
C403.4.1 [FI14]^{I}	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M Sheets
C403.4.1.1 [FI15]^{I}	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.4.1.2 [FI16]^{I}	Thermostatic controls have a 5 °F deadband.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.1
C403.4.1.4 [FI17]^{I}	Temperature controls have setpoint overlap restrictions.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.1
C403.4.2 [FI18]^{I}	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.1
C403.4.2.1, C403.4.2.2 [FI19]^{I}	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.1
C404.3 [FI3]^{I}	Heat traps installed on supply and discharge piping of non-circulating systems.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C404.4 [FI3]^{I}	All service water heating piping meets the thickness requirements of Table C404.4.1.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** P0.1
C404.6.1 [FI21]^{I}	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** P6.1

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.8.3 [ME66]^{I}	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.4
C403.8.3 [ME66]^{I}	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.4
C403.8.3 [ME66]^{I}	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.4
C403.8.3 [ME66]^{I}	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.4
C403.8.3 [ME66]^{I}	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.4
C403.8.3 [ME66]^{I}	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.4
C403.8.3 [ME66]^{I}	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.4
C403.8.3 [ME66]^{I}	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.4
C403.8.3 [ME66]^{I}	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.4
C403.8.3 [ME66]^{I}	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.4

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C405.15.1, C405.15.2 [FI25]^{I}	Buildings in climate zones 0 - 7 comply with the on-site and/or off-site renewable energy requirements of Section C405.15.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** See Electrical
C406.2.1.4 [FI28]^{I}	Envelope energy credit measure E04 has been selected for energy credit - All roof areas have an additional R-10 continuous insulation	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** A0.1
C406.2.1.5 [FI29]^{I}	Envelope energy credit measure E05 has been selected for energy credit - 90% of opaque wall areas have an additional R-5 insulation.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** A3.1
C406.2.3.2 [FI34]^{I}	Service water heating energy credit measure W04 has been selected for energy credit - hot water pipe insulation is >= 1.5 times the thickness required in C404.4. Piping is isolated from hot water source to future shutoff.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** P0.1 **Energy credit params:** Percentage of hot water piping with increased insulation: 1.0
C406.2.3.3 [FI36]^{I}	Service water heating energy credit measure W06 has been selected for energy credit - thermostatic balancing valves installed in hot water recirculation systems.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** P0.1
C406.2.5.4 [FI44]^{I}	Lighting energy credit measure L04 has been selected for energy credit - 5% increase in daylight area over typical daylight area from Table C406.2.5.4.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** A0.1 **Energy credit params:** Gross lighted floor area (ft2): 0.0; Actual daylight area with continuous dim (ft2): 0.0
C408.1.1 [FI58]^{I}	Building operations and maintenance documents will be provided to the owner. Documents include equipment and system information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.2.1 [FI59]^{I}	Commissioning plan developed by registered design professional or approved agency.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.1
C408.2.3.1 [FI60]^{I}	HVAC equipment, systems and system-to-system relationships have been tested to ensure proper operation.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.1
C408.2.3.2 [FI74]^{I}	HVAC and service water heating control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.1
C408.2.3.3 [FI75]^{I}	Economizers have been tested to ensure proper operation.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.1

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Salt Lake City, Utah 84111
P: 801.596.0691
DESIGNUTAH.COM

HARMONS

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 11, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
PVE PROJECT NO: 26076.00
DRAWN BY: BNS
CONTACT: BSPARKS@PVE-UT.COM
DWG TYPE:
ARCHITECTURAL PHASE: BID SET

SHEET TITLE

2024 IECC
MECHANICAL / PLUMBING
COMCHECK

M5.8

PVE
1040 N 2200 WEST SALT LAKE CITY UTAH
T: 801.359.3158 www.pve-ut.com

Section # & Req ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.4 [F161]	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.1
C408.2.5 [F175]	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.2.5.1 [F162]	An air and/or hydronic system balancing report is provided for HVAC systems.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.1
C408.2.5.2 [F176]	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M0.1
C408.3.2.2 [F177]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.3.2.2 [F163]	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

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Sequence
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HARMONS

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MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 11, 2026
AGENCY PROJECT NO:
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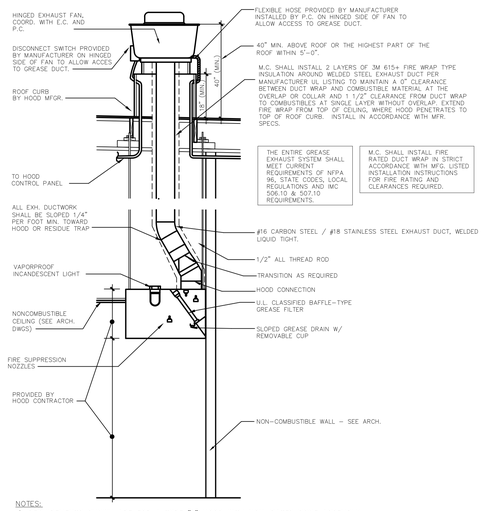
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CONTACT: BSPARKS@PVE-UT.COM
DWG TYPE:
ARCHITECTURAL PHASE: BID SET

SHEET TITLE

2024 IECC MECHANICAL / PLUMBING COMCHECK

M5.9

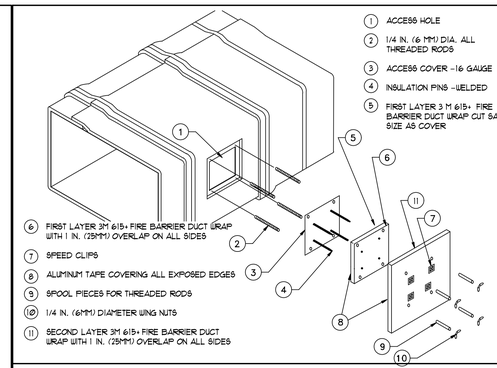
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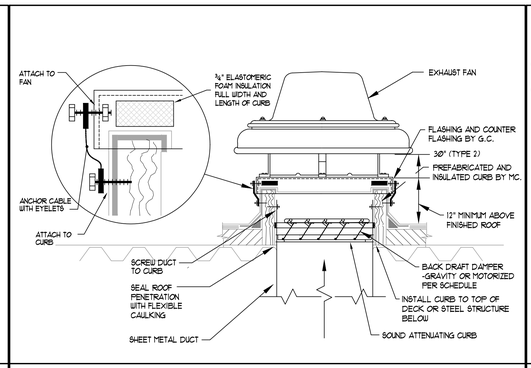
NOTES:

1) REQUIREMENTS SHOWN ARE FOR A TYPE "1" HOOD WITH NON-RATED ROOF ASSEMBLY.
2) HOOD SHALL BE LISTED BY NATIONAL AGENCY.
3) CLEAN-OUTS SHALL BE PROVIDED IN GREASE EXHAUST DUCT AT ALL CHANGES IN DIRECTION. THE CLEAN-OUT PANEL SHALL BE MADE OF THE SAME MATERIAL AND THICKNESS AS THE DUCT. THE C.O. PANEL SHALL HAVE A GASKET OR SEALANT THAT IS RATED FOR 1500° MIN. AND SHALL BE GREASE TIGHT. FASTENERS USED TO SECURE THE C.O. PANELS, SUCH AS WELDED STUDS, LATCHES, OR WING NUTS SHALL BE CARBON STEEL AND SHALL NOT PENETRATE DUCT WALLS. G.C. SHALL PROVIDE FIRE RATED ACCESS PANEL AT THE DUCT ENCLOSURE TO ACCESS DUCT CLEANOUTS. A SIGN SHALL BE PLACED ON ALL FIRE SHIELDING ACCESS PANELS STATING-"ACCESS PANEL-DO NOT OBSTRUCT".
4) M.C. TO PROVIDE A PERFORMANCE TEST, AS WELL AS A CAPTURE & CONTAINMENT TEST, FOR ALL TYPE 1 AND TYPE 2 HOOD SYSTEMS. THE CAPTURE / CONTAINMENT TEST IS A VISUAL FIELD TEST WITH THE INSPECTOR. THE PERFORMANCE TEST INVOLVES TESTING AND BALANCING BY A QUALIFIED THIRD PARTY. TESTING AND BALANCING REPORTS ARE REQUIRED AT TIME OF FINAL INSPECTION, PER IMC 507.6.
5) M.C. TO PROVIDE A "LIGHT-TEST" FOR ALL GREASE DUCTS PRIOR TO ENCLOSING OR CONCEALING, PER IMC 506.3.2.5. THE PERMIT HOLDER SHALL PROVIDE THE NECESSARY TEST EQUIPMENT AND DEVICES REQUIRED TO TEST THE EQUIPMENT, PER IMC 507.6.

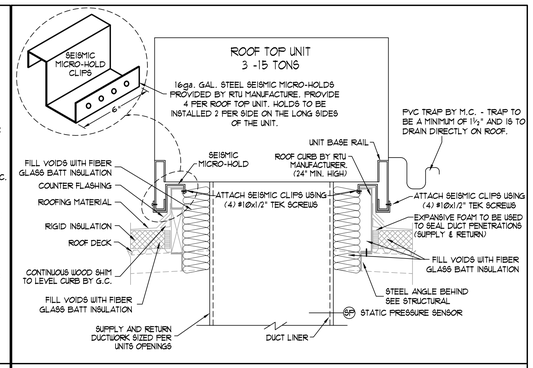
13 / M6.1 TYP. TYPE 1 GREASE HOOD AND DUCT DETAIL
SCALE: NOT TO SCALE



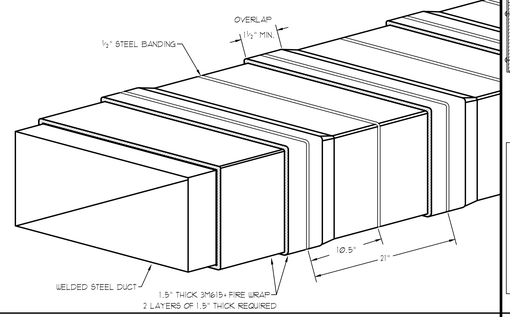
9 / M6.1 COMMERCIAL KITCHEN GREASE DUCT ACCESS DOOR
SCALE: NOT TO SCALE



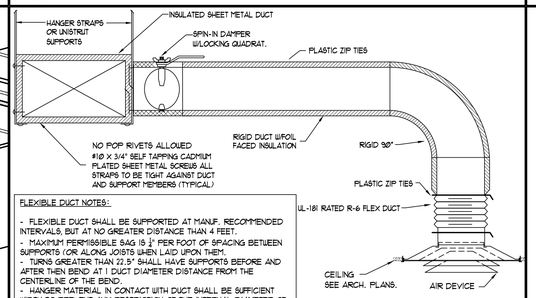
5 / M6.1 EXHAUST FAN AND CURB DETAIL
SCALE: NOT TO SCALE



1 / M6.1 ROOF TOP UNIT CURB DETAIL
SCALE: NOT TO SCALE



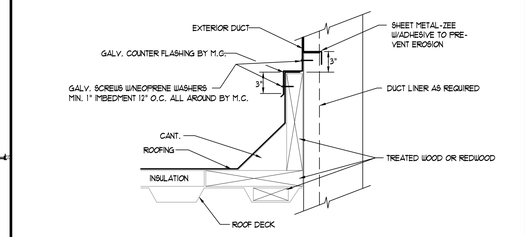
10 / M6.1 TYPICAL FIRE WRAP DETAIL
SCALE: NOT TO SCALE



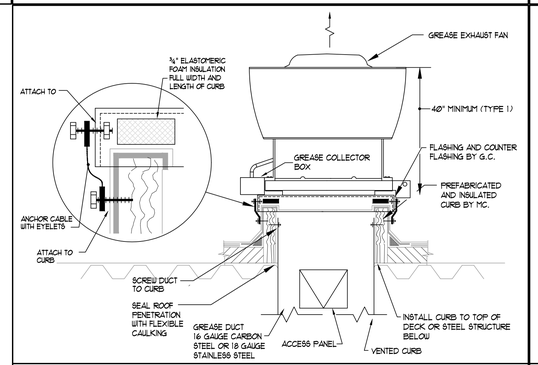
FLEXIBLE DUCT NOTES:

- FLEXIBLE DUCT SHALL BE SUPPORTED AT MANUF. RECOMMENDED INTERVALS, BUT AT NO GREATER DISTANCE THAN 4 FEET.
- MAXIMUM PERMISSIBLE SAG IS ½" PER FOOT OF SPACING BETWEEN SUPPORTS (OR ALONG JOISTS WHEN LAID UPON THEM.
- TURNS GREATER THAN 22.5° SHALL HAVE SUPPORTS BEFORE AND AFTER THEN BEND AT 1 DUCT DIAMETER DISTANCE FROM THE CENTERLINE OF THE BEND.
- HANGER MATERIAL IN CONTACT WITH DUCT SHALL BE SUFFICIENT WIDTH TO PREVENT ANY RESTRICTION OF THE INTERNAL DIAMETER OF THE DUCT WHEN IN OPERATION. MATERIAL SHALL BE NO LESS THAN 1.5" WIDE.
- SHALL ONLY BE INSTALLED ABOVE LAY-IN CEILINGS.
- L.O.R. SHALL NOT EXCEED 5'.

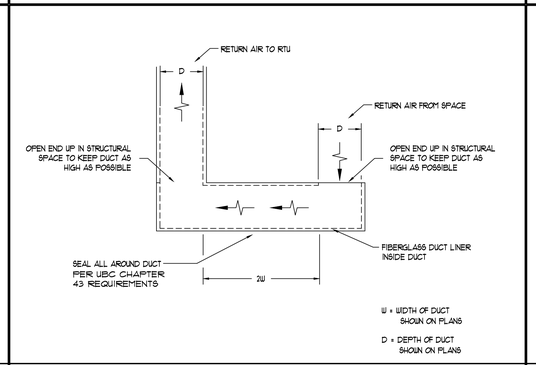
6 / M6.1 DIFFUSER MOUNTING DETAIL (SQUARE)
SCALE: NOT TO SCALE



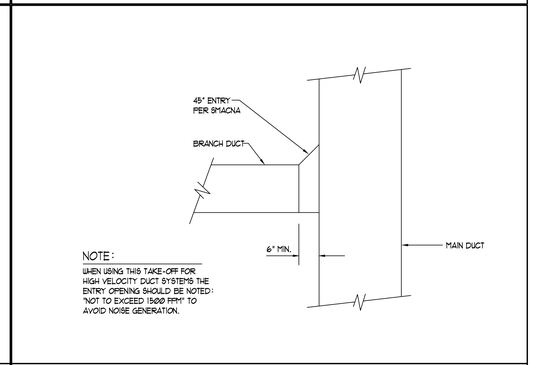
2 / M6.1 DUCT PENETRATION OF ROOF DETAIL
SCALE: NOT TO SCALE



11 / M6.1 GREASE EXHAUST FAN AND CURB DETAIL
SCALE: NOT TO SCALE

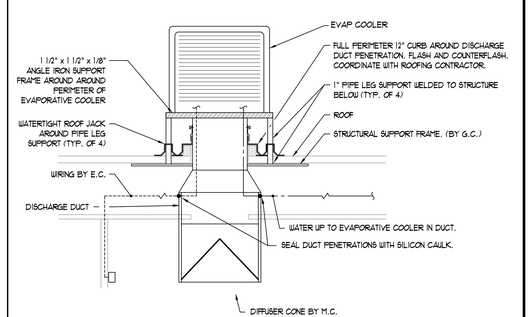


7 / M6.1 SOUND BOOT DETAIL
SCALE: NOT TO SCALE

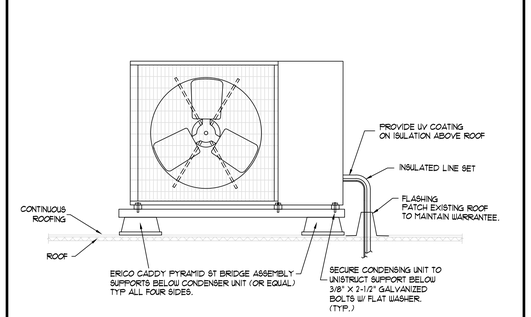


NOTE:
WHEN USING THIS TAKE-OFF FOR HIGH VELOCITY DUCT SYSTEMS THE ENTRY OPENING SHOULD BE NOTED: "NOT TO EXCEED 1500 FPM" TO AVOID NOISE GENERATION.

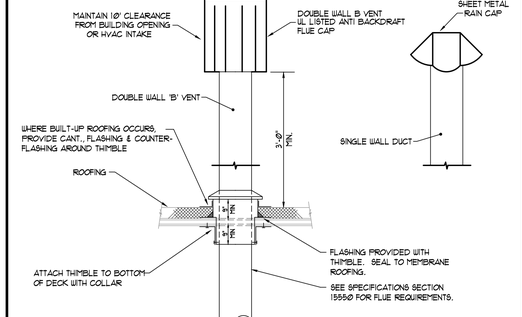
3 / M6.1 TYPICAL DUCT TAKEOFF DETAIL
SCALE: NOT TO SCALE



12 / M6.1 ROOF MOUNTED EVAPORATIVE COOLER DETAIL
SCALE: NOT TO SCALE



8 / M6.1 ROOF MOUNTED CONDENSER CURB DETAIL
SCALE: NOT TO SCALE



4 / M6.1 VENT / FLUE ROOF PENETRATION DETAIL
SCALE: NOT TO SCALE

design Sequence
350 South 200 East, #106
Salt Lake City, Utah 84111
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DesignUtah.com

HARMONS

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

MARK	DATE	DESCRIPTION

DATE:	SEPTEMBER 11, 2026
AGENCY PROJECT NO:	
DESIGN SEQUENCE PROJECT NO:	
PVE PROJECT NO:	26076.00
DRAWN BY:	BNS
CONTACT:	BSPARKS@PVE-UT.COM
DWG TYPE:	
ARCHITECTURAL PHASE:	BID SET

SHEET TITLE

HVAC DETAILS

M6.1

PVE
1040 N 2200 WEST SALT LAKE CITY UTAH
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PIPING LEGEND

- BALL VALVE
- CHECK VALVE
- REDUCER
- PRESSURE REDUCING VALVE
- NG SOLENOID (HOOD EQUIP)
- NATURAL GAS VALVE
- SEISMIC VALVE
- FLOW MONITOR (FM)
- FLOW / TEMP MONITOR (FTM)
- STRAINER
- CIRCUIT SETTER
- PRESSURE GAUGE W/GAUGE COCK
- THERMOMETER
- IN-LINE PUMP (IP)
- FLOW SWITCH (F)
- AQUASTAT (A)
- HOSE BIBB OR SILLCOCK
- REDUCED PRESSURE BACKFLOW PREVENTER (RPBP)
- DIRECTION OF FLOW
- ELBOW DOWN
- ELBOW UP
- PIPE CAP
- TEE DOWN
- UNION
- CONTINUATION
- FLOOR DRAIN (LIGHT DUTY)
- FLOOR DRAIN (HEAVY DUTY)
- FLOOR DRAIN - ROUND (½ GRATE)
- FLOOR SINK - SQUARE
- TROUGH DRAIN
- HUB DRAIN
- DRAIN TEMPERING KIT (DTK)
- ROOF DRAIN
- TRENCH DRAIN
- WATER FILTER (F)
- WALL CLEANOUT
- FLOOR CLEANOUT
- GRADE CLEANOUT W/ CONCRETE PAD
- OVERHEAD PIPING CLEANOUT
- DOMESTIC COLD WATER (DCW) ——
- DOMESTIC HOT WATER (DHW) — — —
- HOT WATER CIRC. (DHWR) — — — —
- SOFT HOT WATER (SHW) — · · —
- SHW CIRC. (SHWR) · · · · · · · · ·
- FILTERED WATER ——FW——
- NON-POTABLE WATER ——NPW——
- RO WATER ——RO——
- ROOF DRAIN WITH SNOWMELT
- NATURAL GAS ——NG——
- SANITARY (FLBG) VENT ------V------
- SANITARY SEWER ABOVE GRADE ——SS——
- SANITARY SEWER BELOW GRADE ——SS——
- GREASE WASTE ——GW——
- COMBINATION WASTE / VENT ——CWV——
- ROOF DRAIN PIPING ——RD——
- OVERFLOW DRAIN PIPING ——OD——
- CONDENSATE ——CD——
- DETAIL TAG (# / page)
- KEYED NOTE (#)

POTABLE WATER DISINFECTION:

2024 IPC 610:
NEW / REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE. THE PIPING SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR. THE SYSTEM SHALL BE FILLED WITH WATER / CHLORINE SOLUTION CONTAINING NO LESS THAN 200 P.P.M. OF CHLORINE, AND THE SYSTEM SHALL BE VALVED OFF AND ALLOWED TO STAND FOR 3 HOURS. FOLLOWING STAND TIME, THE SYSTEM SHALL BE FLUSHED WITH CLEAN , POTABLE WATER UNTIL CHLORINE IS FLUSHED FROM THE SYSTEM. THIS PROCEDURE SHALL BE REPEATED UNTIL SYSTEM IS CLEAR AS INDICATED BY BACTERIOLOGICAL EXAMINATION. PROVIDE TEST / FLUSH DOCUMENTATION TO ARCHITECT W/ BALANCE REPORT. P.C. TO COORDINATE TESTING PROCEDURE WITH PROJECT MANAGER.

NG PRESSURE TESTING / INSPECTION:

2024 IFGC 406:

PRIOR TO ACCEPTANCE AND INITIAL OPERATION, PIPING INSTALLATIONS SHALL BE VISUALLY INSPECTED AND PRESSURE-TESTED TO DETERMINE THAT THE MATERIALS, DESIGN, FABRICATION, AND INSTALLATION PRACTICES ARE IN ACCORDANCE WITH THE REQUIREMENTS OF THIS CODE.

SEISMIC RESTRAINT NOTES:

-MECHANICAL AND PLUMBING (MP) COMPONENTS PERMANENTLY ATTACHED TO THE STRUCTURE ARE REQUIRED TO HAVE SEISMIC RESTRAINT PER INTERNATIONAL BUILDING CODE SECTION 1613.1 UNLESS EXCLUDED BY CHAPTER 13 OF ASCE 7. THIS APPLIES TO EQUIPMENT SUCH AS COMPONENTS 400# POUNDS AND SUPPORTED ON A FLOOR OR ROOF COMPONENTS 20# POUNDS AND SUPPORTED BY A CEILING OR WALL, OR DISTRIBUTION SYSTEMS WEIGHING 5# PLF.
- WHERE EARTHQUAKE LOADS ARE APPLICABLE WITH THE INTERNATIONAL BUILDING CODE, MECHANICAL SYSTEMS SHALL BE DESIGNED AND INSTALLED FOR THE SEISMIC FORCES IN ACCORDANCE OF THAT CODE / ANY LOCALLY ADOPTED AMENDMENTS.
-THE SEISMIC RESTRAINT DETAILS FOR MP COMPONENTS SHALL BE SUBMITTED AS A DEFERRED SUBMITTAL BY CONTRACTOR RESPONSIBLE FOR INSTALLATION OF SUCH EQUIPMENT / SYSTEMS.

GENERAL NOTES:

1. ALL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH:
- 2024 INTL. BUILDING CODE
- 2024 INTL. FUEL GAS CODE
- 2024 INTL. MECHANICAL CODE
- 2024 INTL. ENERGY CODE
- 2024 INTL. PLUMBING CODE
2. PIPE ROUTING AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
3. CLOSELY COORDINATE NEW PLUMBING WITH MECHANICAL, ELECTRICAL, ARCHITECTURAL, AND BUILDING STRUCTURE.
4. PROVIDE SUBMITTALS ON ITEMS LISTED IN EQUIPMENT SCHEDULES TO THE ARCHITECT FOR ENGINEER'S APPROVAL PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.
5. ALL WATER FLOW PRESSURE AND TEMPERATURE RATES MUST BE BALANCED TO THE VALUES INDICATED ON THE FLOOR PLANS. PROVIDE A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS. REPORT SHALL BE COMPLETED PRIOR TO THE FINAL APPROVAL BY THE FIELD INSPECTOR. THIS REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.
6. INSULATE PIPING WITH FIBERGLASS PIPE COVERING WITH ALL SERVICE JACKET AND SELF-CAP SEAL. FITTINGS SHALL BE MITERED PIPING COVERING OF GLASS FIBER MOLDED FITTINGS FOR USE IN A RETURN AIR PLENUM. SEE PIPING INSULATION TABLE. INCREASED INSULATION REQUIRED FOR IECC COMPLIANCE.
7. EACH TRADE IS RESPONSIBLE THEIR OWN FIRE CAULKING.
8. ALL PIPING INSTALLED OUTSIDE IS TO BE INSULATED AND WEATHERPROOFED.
9. FLOOR DRAINS OR SIMILAR TRAPS DIRECTLY CONNECTED TO THE DRAINAGE SYSTEM AND SUBJECT TO INFREQUENT USE SHALL BE PROVIDED WITH TRAP GUARD (TG).
10. ALL GAS METER REGULATORS ARE TO BE VENT-LESS BY MAXITROL OR PIETRO FIORNTINI.
11. ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.
12. EACH VENT SHALL RISE TO A POINT NO LESS THAN SIX (6") INCHES ABOVE THE FLOOD-LEVEL RIM OF THE FIXTURE SERVED BEFORE OFFSETTING HORIZONTALLY OR BEFORE BEING CONNECTED TO ANY OTHER VENT. VENTS LESS THAN 6" ABOVE THE FLOOD-LEVEL RIM OF THE FIXTURE SHALL BE INSTALLED WITH APPROVED DRAINAGE FITTINGS, MATERIAL, AND GRADE TO THE DRAIN.
13. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE AUTHORITY HAVING JURISDICTION WITH PROJECT CLOSE-OUT DOCUMENTATION.
14. PUBLIC LAVATORIES / HAND WASHING SINKS SHALL HAVE CONTROLS TO LIMIT THE WATER TEMPERATURE TO 110° (TV.1).
15. WATER PIPE AND FITTINGS WITH A LEAD CONTENT WHICH EXCEEDS Ø.25% SHALL BE PROHIBITED IN SYSTEMS CONVEYING POTABLE WATER.
16. EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN 10 FEET FROM OR AT LEAST 3 FEET ABOVE ANY WINDOW, DOOR, OPENING, OR AIR INTAKE.
17. WATER HAMMER ARRESTORS: SIOUX CHIEF 660 SERIES. ADHERE TO PDI-WH 201 REQUIREMENTS FOR SIZING / LOCATIONS:
TYPE A: 1-11 FIXTURE UNITS
TYPE B: 12-32 FIXTURE UNITS
TYPE C: 33-60 FIXTURE UNITS
TYPE D: 61-113 FIXTURE UNITS
18. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
19. PIPE ENDS SHALL BE CAPPED WHEN WORK IS NOT BEING PERFORMED.
20. WATER SUPPLY LINES FOR DRINK DISPENSERS MUST HAVE BACK-FLOW PROTECTION THAT MEETS THE A556 1202 STANDARD.
21. ALL TUBING / PIPING FOR DRINK DISPENSING EQUIPMENT SHALL BE NSF APPROVED.
22. ALL PIPE DROPS IN SALES AREA FROM ROOF FRAMING TO EITHER LOW WALLS OR EQUIPMENT SHOULD BE COORDINATED AND GROUPED TOGETHER WITH OTHER PIPES AND CONDUITS. PROVIDE / INSTALL BENT METAL PLATES OVER EXPOSED PIPING IN LOCATIONS WHERE THEY MAY BE SUBJECT TO DAMAGE.
23. JET OUT ALL WASTE PIPING WITHIN PROJECT SCOPE JUST PRIOR TO SUBSTANTIAL COMPLETION. PROVIDE WRITTEN DOCUMENTATION TO THE PROJECT MANAGER TO VERIFY WORK HAS BEEN COMPLETED.
24. CONTRACTOR SHALL COORDINATE ALL TRENCHING WITH NEW FLOOR PLAN TRENCHING FOR ALL TRADES.
25. COOLER / FREEZER CONDENSATE PIPING SHALL BE COPPER AND INSTALLED BY P.C.
26. REFRIGERATED CASE CONDENSATE PIPING SHALL BE PVC AND INSTALLED BY P.C.
27. ALL EXPOSED NG PIPING IS TO BE PAINTED. APPLY ONE COAT OF DEVGUARD EXTERIOR, MULTI-PURPOSE PRIMER AND ONE COAT OF GRAY, UNIGRIP, WATER-BASED AQUACRYLIC SEMI-GLOSS PAINT.
28. IPC 606.7: LABELING OF WATER DISTRIBUTION: THE IDENTIFICATION SHALL INDICATE PIPE CONTENTS AND THE DIRECTION OF FLOW IN THE PIPE. THE INTERVAL OF THE IDENTIFICATION MARKINGS NO THE PIPE SHALL NOT EXCEED 25'. THERE SHALL BE NOT LESS THAN ONE IDENTIFICATION LABEL ON EACH PIPE IN EACH ROOM, EACH SPACE.
29. THE G.C. SHALL CONTRACT A COMMISSIONING AGENT TO PROVIDE / IMPLEMENT A COMMISSIONING PLAN PURSUANT TO IECC 408.2.1, 408.2.3.1, 408.2.4, 408.2.5, 408.2.3.2. FINAL COMMISSIONING REPORT TO BE PROVIDED TO OUNER WITHIN 90 DAYS OF RECEIVING CERTIFICATE OCCUPANCY.
30. G.C. TO SUBMIT TO ARCHITECT ALL AS-BUILDS OF BUILDINGS' PLUMBING SYSTEMS WITHIN 90 DAYS OF SYSTEM ACCEPTANCE.
31. WATER HEATERS SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT CAUSED BY EARTHQUAKE MOTION. STRAPPING SHALL BE AT POINTS WITHIN THE UPPER AND LOWER ONE-THIRD OF THE APPLIANCE'S VERTICAL DIMENSIONS.
32. GENERAL CONTRACTOR SHALL PROVIDE THE BUILDING OUNER WITH OPERATIONS AND MAINTENANCE DOCUMENTS INCLUDING MANUF. INFORMATION, SPECIFICATIONS / RECOMMENDATIONS, PROGRAMMING PROCEDURES AND DATA POINTS, NARRATIVES, AND OTHER MEANS OF ILLUSTRATING TO THE OUNER HOW THE BUILDING, EQUIPMENT, AND SYSTEMS ARE INTENDED TO BE INSTALLED, MAINTAINED, AND OPERATED. REQUIRED REGULAR MAINTENANCE ACTIONS FOR EQUIP. AND SYSTEMS SHALL BE CLEARLY STATED ON A READILY VISIBLE LABEL. THE LABEL SHALL INCLUDE THE TITLE OR PUBLICATION NUMBER FOR THE OPERATION AND MAINTENANCE MANUAL FOR THAT PARTICULAR MODEL AND TYPE OF PRODUCT. (IECC 408.1.1)
33. FLOW MONITORING DEVICES ARE TO BE PROVIDED BY CONTROLS CONTRACTOR, INSTALLED BY P.C.

TANKLESS WATER HEATER SCHEDULE

FIXTURE TAG	AREA SERVED	COLD	HOT	NATURAL GAS	CONDENSATE	INTAKE	FLUE	SUPPLY (W.C.")	MBH CAPACITY			FLOW		WIDTH (INCHES)	DEPTH (INCHES)	HEIGHT (INCHES)	WEIGHT (LBS)	POWER	MANUFACTURER / MODEL	COMMENTS
									INPUT - MAX	OUTPUT	EFFICIENCY	GPM	TEMP. RISE	OUTLET TEMP.						
TWH.1	LEVEL 1 RESTROOMS	.75"	.75"	.75"	.50"	2"	2"	3.5"-10.5"	199	189	95	5.1	77°	110°	17.3"	15"	27.6"	78	120/1 (74 WATTS)	BRADFORD WHITE RTGS199N1	ENERGY STAR QUALIFIED. AHRI CERTIFIED. ULTRA-LOW NOX. PROVIDE W/ FACTORY CONCENTRIC KIT FOR VENT / FLUE PIPING (SEE MANUF. SPECS). PROVIDE CONDENSATE NEUTRALIZATION KIT. TERMINATE CONDENSATE @ FLOOR SINK W/ AN AIR GAP. PROVIDE WITH DESCALING FILTER (AQUA FRE: BG-SDSL45B OR EQUIVALENT). PROVIDE 1 GALLON EXPANSION TANK.
TWH.2	LEVEL 2 RESTROOMS																			
TWH.3	CHEESE ISLAND																			

DOMESTIC WATER CALCULATIONS - 2024 IPC APPENDIX E - TABLE E103.3 (2) (3)

FIXTURE TAG	DESCRIPTION	QUANTITY	C-WSFU	H-WSFU	COMBINED	WSFU
RESTROOMS - MAIN LEVEL / PHARMACY / FLORAL						
WC-1/WC-2	WATER CLOSET	6	10	0	0	60
L	LAVATORY	6	1.5	1.5	2	12
EWC-1	DRINKING FOUNTAIN	2	0.25	0	0	0.5
U-1	URINAL	2	5	0	0	10
X100	HAND SINK	1	1.5	1.5	2	2
F100	HAND SINK	1	1.5	1.5	2	2
CAFÉ, BURGERS, WASHROOM						
D2	HAND SINK	3	1.5	1.5	2	6
D5/D6	3 COMP SINK	2	3	3	4	8
D17	1 COMP SINK	1	2.25	2.25	3	3
D107	ICE MACHINE	1	0.5		0	0.5
D108	COFFEE BREWER	1	0.5		0	0.5
R18	ICE MACHINE	1	0.5		0	0.5
R19	DRINK DISPENSER	1	0.5		0	0.5
SS.1	SERVICE SINK	1	2.25	2.25	3	3
D343	PAN WASHER	1	3	3	4	4
D536/130	DISPOSAL / FAUCET	1	2.25	2.25	3	3
DELI, SOUS CHEF						
D99	TILT SKILLET	1	1.5	1.5	2	2
D541	COMBI OVEN	4	1.5	0	0	6
D233	HOT WELLS	2	0.5		0	1
D2	HAND SINK	2	1.5	1.5	2	4
D206	2 COMP SINK	1	2.25	2.25	3	3
P2	HAND SINK	1	1.5	1.5	2	2
P97	3 COMP SINK	1	3	3	4	4
P102	SOAK SINK	1	2.25	2.25	3	3
BAKERY, CHEESE ISLAND						
B2 / D2	HAND SINK	4	1.5	1.5	2	8
B4 / D5 / B113 / B6	3 COMP SINK	4	3	3	4	16
B16	1 COMP SINK	2	2.25	2.25	3	6
B104	CHILLER	1	0.5		0	0.5
B100	OVEN	1	0.5		0	0.5
B116	PROOFER	1	0.5		0	0.5
B241	OVEN	2	0.5		0	1
B337	PAN WASHER	1	3	3	4	4
MEAT PREP / PRODUCE						
M9,M5	3 COMP SINK	2	3	3	4	8
D518,519	COMBI OVEN	2	1.5	0	0	3
M16	CASE MISTING	2	0.5		0	1
M341	PAN WASHER	1	3	3	4	4
M2	HAND SINK	1	1.5	1.5	2	2
SS.1	SERVICE SINK	1	2.25	2.25	3	3
P106	CASE MISTING	2	0.5		0	1
MEZZANINE						
FIXTURE TAG	DESCRIPTION	QUANTITY	C-WSFU	H-WSFU	COMBINED	WSFU
WC	WATER CLOSET	3	10	0	0	30
L	LAVATORY	2	1.5	1.5	2	4
U-1	URINAL	2	5	0	0	10
BFS	BOTTLE STATION	1	0.5	0	0	0.5
S.1	SINK	1	1.5	1.5	2	2
			HOT WSFU	53.25	HOT GPM	50
			GPM	101	WSFU	295.5

HOT WATER RECOVERY

FIXTURE TAG	DESCRIPTION	MODEL	QUANTITY	BASIN DIMENSIONS				VOLUME CUBIC INCHES	75% FILL	GALLONS TOTAL	RECOVERY GPH	TOTAL GPH
				LENGTH	WIDTH	DEPTH	QTY					
MEAT PREP												
M5	3 COMP SINK	3PB1824-2D18	1	18	24	18	3	23328	17496	75.74	60.59	60.59
M2	HAND SINK	PBHS-W-1410	2								2	4
M9	3 COMP SINK	3PB1431-2D24	1	14	31	12	3	15624	11718	50.73	40.58	40.58
BAKERY												
B6	3 COMP SINK	3PB2028-2D20	1	20	28	12	3	20160	15120	65.45	52.36	52.36
B2	HAND SINK	PBHS-W-1410	3								2	6
B16	1 COMP SINK	1PB1618	2	16	18	12	1	3456	2592	11.22	8.98	17.95
B113	3 COMP SINK	3PB1824	1	18	24	12	3	15552	11664	50.49	40.39	40.39
B4	3 COMP SINK	3PB18-1D18L	1	18	18	12	3	11664	8748	37.87	30.30	30.30
SOUS CHEF												
P102	SOAK SINK	S0PSP75L3B1	1	24.75	27	19	1	12696.75	9523	41.22	32.98	32.98
P97	3 COMP SINK	3PB24-2D24	1	24	24	12	3	20736	15552	67.32	53.86	53.86
P2	HAND SINK	PBHS-W-1410	1								2	2
DELI PREP												
D206	2 COMP SINK	2PB24	1	24	24	12	2	13824	10368	44.88	35.91	35.91
D2	HAND SINK	PBHS-W-1410	2								2	4
D99	TILT SKILLET	SGL-40-T1	1								5	5
WASH ROOM												
SS-1	SERVICE SINK	PBMS-2820-12	1								5	5
D2	HAND SINK	PBHS-W-1410	1								2	2
D6	3 COMP SINK	3PB2028-2D20	1	20	28	12	3	20160	15120	65.45	52.36	52.36
D130	DISPOSAL RINSE	B-0133-ADF	1								10	10
JUST BURGERS												
D2	HAND SINK	PBHS-W-1410	2								2	4
D17	1 COMP SINK	1PB24	1	16	18	12	1	3456	2592	11.22	8.98	8.98
D5	3 COMP SINK	3PB1824-2D18	1	18	24	18	3	23328	17496	75.74	60.59	60.59
DOCK												
SS-1	SERVICE SINK	PBMS-2820-12	1								5	5

TOTAL GPH	533.86
HOT WATER RECLAIM STORAGE	114
WH-1 RECOVERY @ 100°	235
WH-2 RECOVERY @ 100°	235
PROVIDED HOT WATER RECOVERY	584

ELEVATOR SUMP PUMP

FIXTURE TAG	DESCRIPTION	CONNECTION	GPM	FEET OF HEAD	POWER	H.P.	F.L.A.	WIDTH	DEPTH	HEIGHT	MANUFACTURER	MODEL	SPECIFICATIONS
ESP.1	OIL-MINDER	2"	5'	20'	115	0.4	5	9.1"	17" (FLOAT)	15"	STANCOR	SE-40	PROVIDE SUMP, LID, CHECK VALVE ON EACH PUMP.
ESP.2													

TABLE C404.5.1 - PIPING VOLUME / MAXIMUM LENGTHS

NOMINAL PIPE SIZE (INCHES)	VOLUME (OZ / FT)	MAXIMUM PIPING LENGTH (FEET)	
INTERIOR DIAMETER	DOMESTIC HOT WATER	PUBLIC LAVATORIES	OTHER FIXTURES
1/2"	1.5	2	43
3/4"	3	0.5	21
1"	5	0.5	13
1.25"	8	0.5	8
1.5"	11	0.5	6
2" AND LARGER	18+	0.5	4

NATURAL GAS WATER HEATER SCHEDULE

FIXTURE TAG	AREA SERVED	COLD	HOT	INTAKE	FLUE	MBH CAPACITY			RECOVERY		STORAGE GALLONS	DIAMETER (INCHES)	HEIGHT (INCHES)	WEIGHT (LBS)	MANUFACTURER / MODEL	COMMENTS
						INPUT - MAX	OUTPUT	EFFICIENCY	GPH	TEMP. RISE						
WH-1	SOFT HOT WATER (140°)	1.5"	1.5"	2"	2"	125	120	96%	145	90°	60	28.25"	57"	1,070 LBS	BRADFORD WHITE EF60T125E5N(A)	E.C. TO PROVIDE 120 V OUTLET. ULTRA-LOW NOX. ASME CERTIFIED. PROVIDE W/ SEISMIC STAND-OFF KIT W/ STRAP KIT. PROVIDE W/ CONDENSATE NEUTRALIZATION KIT. PROVIDE W/ INTIAL FILL OF PH MEDIA. PROVIDE W/ FACTORY CONCENTRIC KIT FOR VERTICAL TERMINATION. PROVIDE W/ SAFETY PAN. ROUTE SAFETY PAN DRAIN AND T&P DRAIN SEPARATELY TO FLOOR SINK. TERMINATE CONDENSATE NEUTRALIZATION KIT AT FLOOR SINK.
WH-2	POTABLE HOT WATER LOOP (120°)	1.5"	1.5"	3"	3"	200	194	97%	323		100		78"	1,730 LBS	BRADFORD WHITE EF100T199E5N(A)	
WH-3																

ELECTRIC WATER HEATER SCHEDULE

FIXTURE TAG	AREA SERVED	COLD	HOT	CAPACITY (GALLONS)	POWER	INPUT (KW)	GPH @ TEMP. RISE	WIDTH	DEPTH	HEIGHT	WEIGHT	MANUFACTURER / MODEL
EWH.1	FLORAL SINK	3/8"	3/8"	0.5 GPM	208/1	4.1	56	5.25"	3"	10.75"	3 LBS	BRADFORD WHITE ES-4100-2-S-10

MINIMUM PIPE INSULATION THICKNESS - C404.4

FLUID OPERATING TEMP. RANGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE SIZE		
	CONDUCTIVITY BTU X IN. / (H X FT² X °F)	MEAN RATING TEMP.	<1"	1" to < 1.5"	1.5" to < 4"
105 - 140	0.21 - 0.28	100	1	1	1.5

PIPE INSULATION THICKNESS - C406.2.3.2 (4 CREDIT PTS)

FLUID OPERATING TEMP. RANGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE SIZE		
	CONDUCTIVITY BTU X IN. / (H X FT² X °F)	MEAN RATING TEMP.	<1"	1" to < 1.5"	1.5" to < 4"
105 - 140	0.21 - 0.28	100	1.5"	1.5"	2.25"

DOMESTIC CIRCULATOR PUMP SCHEDULE

FIXTURE TAG	SERVES	CONNECTION	TEMPERATURE	GPM	FEET OF HEAD	POWER	WIDTH	DEPTH	HEIGHT	WEIGHT	MANUFACTURER	MODEL	SPECIFICATIONS
P.1	MEZZANINE RESTROOMS (TWH.1)	1/2" SWEAT	120"	0.6	1.98'	115/1 @ 6 WATTS	3.3"	3.3"	6.2"	2.6 lbs	GRUNDFOS	COMFORT 10-16A PM B5 / LC	DRY-RUN DETECTION. LEAD-FREE BRASS HOUSING. STAINLESS STEEL IMPELLER. CONNECTION CORD W/ PLUG.
P.2	LEVEL 1 RESTROOMS (TWH.2)			0.66	3.3'								
P.3	CHEESE ISLAND (TWH.3)	2 BOLT FLANGE	120"	1.05	5.0'	115/1 @ 110 WATTS	6.5"	5.75"	5.5"	6 lbs	GRUNDFOS	UPS 15-35 SFC	3 SPEED. STAINLESS STEEL HOUSING, COMPOSITE IMPELLER. STAINLESS STEEL FLANGES.
P.4	SOFT HOT WATER (WH.1)		140"	1.83	9.8'								
P.5	HOT WATER LOOP (WH.2,WH.3)		120"	2.1	10.6'								

WATER SOFTENER SCHEDULE

FIXTURE TAG	FLOW	SERVICE FLOW RATE	INLET PRESSURE	CONNECTION SIZE	PRESSURE DROP	MAX LBS. / REGEN	PRESSURE VESSEL		BRINE TANK		WEIGHT (EMPTY)	POWER	MANUFACTURER	MODEL	SPECIFICATIONS
							DIAMETER	HEIGHT	DIAMETER	HEIGHT					
WS-1	30 GPM	25 GPM	55 PSI	1.25"	15 PSI	60 LBS	14"Ø	73"	24"Ø	50"	325 lbs.	120/1 (15 AMPS)	CRUSADER	CS-B-130HF	DIGITAL CONTROLLER ELECTRONICALLY METERS WATER FLOW FOR REGENERATION NEEDS. PROGRAMMABLE CONTROL OF BACKWASH, ION EXCHNAGE, RAPID RINSE, AND RETURN TO SERVICE CYCLES. HYDRAULICALLY BALANCED PISTON ACTIVATED CONTROL VALVE. P.C. TO PROVIDE PRESSURE REGULATOR AS REQUIRED. PRO-GUARD RESERVOIR.

EXPANSION TANK SCHEDULE

FIXTURE TAG	SYSTEM SERVED	MODEL	CONNECTION	MAX OPERATING TEMP.	SYSTEM VOLUME (GALLONS)	INITIAL FILL TEMPERATURE	EXPANSION FACTOR	SYSTEM FILL PRESSURE	TANK PRESSURE @ 90%	EXPANSION TANK VOLUME	ACCEPTANCE VOLUME	DIAMETER	HEIGHT	WEIGHT (LBS)	COMMENTS
ET-1	TWH.1	PH-5	3/4"	140°	3.4	50°F	0.01495	65 psi	135 PSI	2.1	1	8.5"	11.5"	7	ASME COMPLIANT.
ET-2	TWH.2				3.5										
ET-3	TWH.3				4.1										
ET-4	WH.1				75.2										
ET-5	WH.2 / WH.3	WHV-50	1"		358.4					15	6.3	16"	21.7"	32	

STORM DRAIN CALCULATIONS (IPC 1106.2)

FIXTURE TAG	AREA (SF)	RAINFALL / HOUR (INCHES)	GPM	PARAPET HEIGHT (FT)	PARAPET LENGTH (FT)	PARAPET SF / 2	PARAPET GPM	TOTAL GPM	DRAIN SIZE	SLOPE
RD.6 / OD.6	23763	1.5	370.31	5	336	840.00	13.09	383.40	6"	1/4" / FT
RD.2 / OD.2	496	1.5	7.73	16	62	496.00	7.73	15.46	2"	1/8" / FT
RD.2 / OD.2	269	1.5	4.19	16	36.75	294.00	4.58	8.77	2"	1/8" / FT
RD.2 / OD.2	334	1.5	5.20	16	16.75	134.00	2.09	7.29	2"	1/16" / FT
RD.2 / OD.2	267	1.5	4.16	16	13.25	106.00	1.65	5.81	2"	1/16" / FT
RD.2 / OD.2	333	1.5	5.19	16	80	640.00	9.97	15.16	2"	1/8" / FT
RD.6 / OD.6	10301	1.5	160.52	5	223	557.50	8.69	169.21	6"	1/16" / FT
RD.4 / OD.4	9237	1.5	143.94	5	193	482.50	7.52	151.46	4"	1/4" / FT
RD.6 / OD.6	22158	1.5	345.30	5	358	895.00	13.95	359.24	6"	1/4" / FT

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HARMONS

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 11, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
PVE PROJECT NO: 26076.00

DRAWN BY: BNS
CONTACT: BSPARKS@PVE-UT.COM
DWG TYPE:
ARCHITECTURAL PHASE: BID SET

SHEET TITLE

PLUMBING NOTES, CALCULATIONS, SYMBOLS, SCHEDULES

P0.1

PVE
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PIPING MATERIAL SCHEDULE

SERVICE	PIPE MATERIAL	FITTINGS	JOINTS
DOMESTIC WATER - ABOVE GRADE	TYPE "L" COPPER - ASTM B75, ASTM B88, ASTM B 251, ASTM B447	ASSE 1061, ASME B16.15, ASME B16.18, ASME B16.22, ASME B16.23, ASME B16.26, ASME B16.29	BRAZED: AWS A5.8. SOLDERED: ASTM B 828, ASTM B 32 W/ ASTM B 813 FLUX. THREADED: ASME B1.20.1
DRAINS, WASTE , AND VENT - ABOVE GRADE	CAST IRON - ASTM A74, ASTM A888, CISPI 301	ASME B16.4, ASME B16.12, ASTM A74, ASTM A888, CISPI 301	COMPRESSION: ASTM C564, ASTM C1563. HUBLESS: CISPI 310, ASTM C 1277 OR ASTM C1540, ASTM C564 OR CSA B602
DOMESTIC WATER*	PEX-ASTM F877, SDR9	ASTMF 1807	ASTMF 1807
DRAINS, WASTE , AND VENT - BELOW GRADE	ABS, SCHED. 40, SOLID CELLULAR CORE,ASTM D 2661, ASTM F 628, ASTM F 1488, CSA B181.1	ASTM D 2661, ASTM F 628, CSA B181.1	ASTM D 2235, CSA B181.1
DRAIN, WASTE , AND VENT - BELOW GRADE	PVC, SCHED. 40, SOLID CELLULAR CORE, ASTM D 2665, ASTM F 891, ASTM F 1488, CSA B 181.2	ASTM D 2665, ASTM F 1866	ASTM D 3212
NATURAL GAS	SCHED. 40 STEEL - ASTM A53/A53M OR ASME B36.10/10M OR ASME A106	THREADED: IFGC TABLE 403.9.2	

* PEX PIPING SHALL BE INCREASED ONE PIPE SIZE FROM WHAT IS SHOWN ON PLANS TO REDUCE PRESSURE-LOSSES FROM INTERNAL FITTINGS.

HARMONS' OWNER-PROVIDED EQUIPMENT SCHEDULE

FIXTURE TAG	DESCRIPTION	COLD	HOT	SOFT HOT	RO	PSI	WASTE	VENT	MBH	REQUIREMENTS
B3,D2,M2, P2	HAND SINK	1/2"	1/2"				2"	1.5"		SET TEMPERING VALVE TO 110 DEGREES. BLOCKING BY G.C.
B4,B6,B113,D5,D6,M5,M9, P97	3 COMP SINK	1/2"	1/2"				INDIRECT			CAST IRON FLOOR SINK W/ AIR GAP, CONNECTIONS TO GREASE WASTE. CHECK VALVES.
B16, D17	1 COMP SINK	1/2"	1/2"				INDIRECT			CAST IRON FLOOR SINK W/ AIR GAP, CONNECTIONS TO GREASE WASTE.
B100	4 DECK OVEN	3/4"				25				
B104	CHILLER	3/4"								
B116	PROOFER				1/2"		INDIRECT			
B241	OVEN				1/2"		INDIRECT		343	
B270	WATER METER	1/2"	1/2"							
B337,D343,M341	PAN WASHER	1/2"		1/2"			INDIRECT			CAST IRON FLOOR SINK W/ AIR GAP, CONNECTIONS TO GREASE WASTE. SET DRAIN TEMPERING KIT TO LESS THAN 140°
D99	TILT SKILLET	3/4"	3/4"				INDIRECT		100	TROUGH DRAIN TO BE SET PER MANUF. DIMENSIONING. CONNECTS TO GREASE WASTE.
D107	ICE MACHINE	3/8"					INDIRECT			FACTORY FILTER
D108	COFFEE BREWER	3/8"								CHECK VALVE REQUIRED.
D111	DRINK DISPENSER		1/2"				INDIRECT			CAST IRON FLOOR SINK W/ AIR GAP, CONNECTIONS TO GREASE WASTE. FINAL EQUIPMENT CONNECTIONS BY VENDOR.
D112	ICE MACHINE		1/2"				INDIRECT			
D130	FAUCET	1/2"	1/2"							
D147	GAS RANGE								210	
D206	2 COMP SINK	1/2"	1/2"				INDIRECT			CAST IRON FLOOR SINK W/ AIR GAP, CONNECTIONS TO GREASE WASTE.
D231	HOT WELL CASE						INDIRECT			
D518,D519,D541	COMBI OVENS	3/4"			3/4"		INDIRECT			CAST IRON FLOOR SINK W/ AIR GAP, CONNECTIONS TO GREASE WASTE.
D536	DISPOSAL	3/4"					3"	2"		
D543	CHILLER						INDIRECT			CAST IRON FLOOR SINK W/ AIR GAP, CONNECTIONS TO GREASE WASTE.
D675	CHARBROILER								80	
F100	DROP IN SINK	1/2"	1/2"				2"	1.5"		
M16	FOGGING SYSTEM									P.C. TO ROUTED 1/2" DCW LINE UNDER CASE AND CAP FOR CONNECTIONS BY OTHERS.
M104	ICE MACHINE	3/8"					INDIRECT			CAST IRON FLOOR SINK W/ AIR GAP, CONNECTIONS TO GREASE WASTE.
P102	SOAK SINK	3/4"	3/4"				INDIRECT			CAST IRON FLOOR SINK W/ AIR GAP, CONNECTIONS TO GREASE WASTE. CHECK VALVES.
P106	PRODUCE MISTING	1/2"					INDIRECT			P.C. TO ROUTED 1/2" DCW ON TOP CASE AND CAP FOR CONNECTIONS BY OTHERS. VENDOR TO ROUTE DRAIN TO NEAREST HUB DRAIN
R18	ICE MACHINE	3/8"					INDIRECT			CAST IRON FLOOR SINK W/ AIR GAP, CONNECTIONS TO GREASE WASTE. FINAL EQUIPMENT CONNECTIONS BY VENDOR.
R19	DRINK DISPENSER						INDIRECT			
X100	DROP IN SINK	1/2"	1/2"				2"	1.5"		SET TEMPERING VALVE TO 110 DEGREES.

GREASE INTERCEPTOR CALCULATIONS - 2024 IPC 1003.3.7

FIXTURE TAG	DESCRIPTION	QUANTITY	BASIN DIMENSIONS LENGTH	WIDTH	DEPTH	QTY	VOLUME CUBIC INCHES	75% FILL	GALLONS TOTAL	FLOW GPM	TOTAL GPM	DFU (709.1,2)	TOTAL DFU
JUST BURGERS / WASH ROOM													
D2	HAND SINK	3								2	6	1	3
D5	3 COMP SINK	1	18	24	18	3	23328	17496	75.74	75.74	75.74	6	6
D107	ICE BIN	1								0.25	0.25	0.5	0.5
D17	1 COMP SINK	1	16	18	12	1	3456	2592	11.22	11.22	11.22	2	2
R19	ICE BIN	1								0.25	0.25	0.5	0.5
D6	3 COMP SINK	1	20	28	12	3	20160	15120	65.45	65.45	65.45	6	6
SS-1	SERVICE SINK	1								3	3	2	2
D343	PAN WASHER	1								6.5	6.5	3	3
DELI PREP													
D543	CHILLER	2								0.25	0.5	0.5	1
D99	TILT SKILLET	1								2	2	3	3
D541	STACKED COMBI	4								4	16	3	12
D2	HAND SINK	2								2	4	1	2
D206	2 COMP SINK	1	24	24	12	2	13824	10368	44.88	44.88	44.88	4	4
SOUS CHEF													
P2	HAND SINK	2								2	4	1	2
P102	SOAK SINK	1	24.75	27	19	1	12696.75	9523	41.22	41.22	41.22	2	2
P97	3 COMP SINK	1	24	24	12	3	20736	15552	67.32	67.32	67.32	6	6
BAKERY PREP													
B4	3 COMP SINK	1	18	18	12	3	11664	8748	37.87	37.87	37.87	6	6
B2	HAND SINK	3								2	6	1	3
B16	1 COMP	2	16	18	12	1	3456	2592	11.22	11.22	22.44	2	4
B100	OVEN	1								0.25	0.25	0.5	0.5
B113	3 COMP SINK	1	18	24	12	3	15552	11664	50.49	50.49	50.49	6	6
B116	PROOFER	1								0.25	0.25	0.5	0.5
B241	OVEN	2								0.25	0.5	0.5	1
B6	3 COMP SINK	1	20	28	12	3	20160	15120	65.45	65.45	65.45	6	6
B337	PAN WASHER	1								6.5	6.5	3	3
MEAT PREP / DOCK													
M9	3 COMP SINK	1	14	31	12	3	15624	11718	50.73	50.73	50.73	6	6
M518	COMBI	1								4	4	3	3
M519	COMBI	1								4	4	3	3
M2	HAND SINK	2								2	4	1	2
M341	PAN WASHER	1								6.5	6.5	3	3
SS.1	SERVICE SINK	1								3	3	2	2
M5	3 COMP SINK	1	18	24	18	3	23328	17496	75.74	75.74	75.74	6	6
CHEESE ISLAND													
D2	HAND SINK	1								2	2	1	1
D5	3 COMP SINK	1	18	24	18	3	23328	17496	75.74	75.74	75.74	6	6

100 % FLOW GPM	763.81	TOTAL DFU	117
PEAK FLOW GPM	152.76	UPC GIT	1,500 GAL.
2 MINUTE DRAIN TIME	76.38	GIT BY P.C.	3,000 GAL.
30 MINUTE RETENTION TIME	2291.44		

GREASE INTERCEPTOR SCHEDULE

PLAN CODE	CAPACITY	INLET	OUTLET	WIDTH	LENGTH	HEIGHT	WEIGHT	MANUFACTURER	MODEL	REMARKS
GIT-1	3,000 GALLONS (DEEP BURY)	75"	73"	112"	136"	94"	76,956 LBS	JENSEN	MU-3000	PROVIDE 3 SAMPLING MANHOLES / EXTENSION RINGS FOR INTERCEPTOR, AND A 4TH SAMPLING MANHOLE DOWNSTREAM OF INTERCEPTOR. COVERAGE GREATER THAN 5' REQUIRED.

SANITARY SEWER CALCULATIONS - IPC 709.1, 709.2

FIXTURE TAG	DESCRIPTION	QUANTITY	DFU	TOTAL DFU
FRONT MEZZANINE				
WC	WATER CLOSET - 1.6 GPF	3	4	12
L	LAVATORY	2	1	2
U	URINAL - 1.0 GPF	2	2	4
S.1	SINK	1	2	2
AC	AC CONDENSATE	3	0.5	1.5
PHARMACY				
WC	WATER CLOSET - 1.6 GPF	3	4	12
L	LAVATORY	2	1	2
X100	HAND SINK	1	1	1
LEVEL ONE RESTROOMS, CUSTOMER SERVICE, FLORAL				
WC	WATER CLOSET - 1.6 GPF	5	4	20
L	LAVATORY	5	1	5
U	URINAL - 1.0 GPF	2	2	4
AC	AC CONDENSATE	1	0.5	0.5
F100	FLORAL SINK	1	1	1
HD	CASE CONDENSATE	2	0.5	1
SALESFLOOR				
HD	CASE CONDENSATE	108	0.5	54
D232	DRAIN WELL	1	1	1
AC.8	AC CONDENSATE	1	0.5	0.5
MEZZANINE				
N/A	PURE WATER SYSTEM	1	1	1
BFS	BOTTLE FILLING STATION	1	0.5	0.5
AC.9	AC CONDENSATE	1	0.5	0.5
WS.1	WATER SOFTENER	1	2	2
WASH ROOM				
D536	DISPOSAL	1	3	3
			DFU	130.5
GREASE WASTE - SEE CALCS				117
			TOTAL	247.5

NATURAL GAS CALCULATIONS

DESCRIPTION	IDENTIFICATION	AREA SERVED	INPUT MBH	CFH
ROOF TOP UNIT	RTU-1	SOUTH SEATING	143.5	165
	RTU-2	ELEVATOR SEATING	96.7	111
	RTU-3	MEZZ. OFFICES	61.5	71
	RTU-4	BREAK / RESTROOMS	44.5	51
	RTU-5	PHARMACY	47.8	55
	RTU-6	NE SALES	256.8	296
	RTU-7	NW SALES	256.8	296
	RTU-8	CHECKSTANDS	208.3	240
	RTU-9	SE SALES	156.0	180
	RTU-10	SW SALES	176.9	204
TANKLESS WATER HEATER	TWH.1	LEVEL 1 RESTROOMS	199	229
	TWH.2	LEVEL 2 RESTROOMS	199	229
	TWH.3	CHEESE ISLAND	199	229
WATER HEATER	WH-1	SOFT HOT WATER (140°)	125	144
	WH-2	POTABLE HOT WATER LOOP (120°)	200	230
	WH-3		200	230
OVEN	B241	BAKERY	343	395
			343	395
SKILLET	D99	DELI	100	115
RANGE	D147		210	242
CHARBROILER	D675	BURGERS	80	92
GRIDDLE	D123		60	69
UNIT HEATER	UH.1	DOCK	105	121
	UH.2		105	121
	UH.3		105	121
	UH.4		76	88
AIR HANDLER	DOAS.1	DELI	606	698
	DOAS.2	BURGERS	443	510
	DOAS.3	BAKERY	443	510
	DOAS.4	ENTRY	443	510
		TOTALS	6033	6947
BASIS OF DESIGN: 2024 IFGC TABLE 402.4 (7)				
BTU / CUBIC FT				868
REQUIRED PRESSURE DELIVERY				5 PSI
SERVICE PIPE SIZE				2"
MAXIMUM LENGTH OF RUN FROM TANK TO EQUIPMENT (GENERATOR)				600'

REQUIREMENTS:
1. P.C. TO PROVIDE / INSTALL ISOLATION VALVE AND REGULATOR AT EACH NEW PIECE OF EQUIPMENT
2. PRESSURE REGULATORS SHALL BE INSTALLED PER MANUF. REQUIREMENTS.
3. PRESSURE REGULATORS SHALL BE MAXITROL, PIETRO FIORENTINI, OR EQUIVALENT
4. VALVES: BRASS BODY, FULL-PORT, PTFE SEAT, LEVER HANDLE, 150 PSIG, F.I.P.

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350 South 200 East, #106
Salt Lake City, Utah 84111
P: 801.596.0691
DesignUtah.com

HARMONS

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 11, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
PVE PROJECT NO: 26076.00

DRAWN BY: BNS
CONTACT: BSPARKS@PVE-UT.COM
DWG TYPE:
ARCHITECTURAL PHASE: BID SET

SHEET TITLE

PLUMBING CALCULATIONS AND SCHEDULES

P0.2

PVE
1040 N 2200 WEST SALT LAKE CITY UTAH
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PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE TAG	DESCRIPTION	COLD	HOT	RO	WASTE	VENT (MIN)	POWER	SPECIFICATIONS
BFS	BOTTLE FILLING STATION	1/2"					120/1	ELKAY: LZWS8K. FACTORY FILTER, MOUNTING FRAME. LED TICKER.
CV-1	CHECK VALVE	1/2"	1/2"			1/2"		WATTS: 9D-M3. ASSE 1012 FOR BACK-PRESSURE / BACK-SIPHONAGE UNDER CONSTANT PRESSURE. PROVIDE / UNIONS. NO BY-PASS. INSTALL UNDER SINKS W/ SPRAYERS
CV-2	CHECK VALVE - ASSE 1022	3/8"				3/8"		WATTS: SD3 W/ WYE STRAINER. ASSE 1022
CV-1	CHECK VALVE	3/4"	3/4"			3/4"		WATTS: 9D-M2. ASSE 1012 FOR BACK-PRESSURE / BACK-SIPHONAGE UNDER CONSTANT PRESSURE. PROVIDE / UNIONS. NO BY-PASS. INSTALL UNDER SINKS W/ SPRAYERS
DCV-1	DOUBLE CHECK VALVE	1"						WATTS: U719-SSHQTC&T. ASSE 1015. INSTALL BEHIND COMBI OVENS, TIGHT TO WALL.
DCV-2		3/4"						
DSN	DOWN SPOUT NOZZLE							ZURN Z199. NICKEL BRONZE BODY. PROVIDE W/ STAINLESS STEEL SCREEN. SEE ARCH. FOR ELEVATIONS, P1.1 FOR SIZES.
DTK.1	DRAIN TEMPERING KIT	1/2"			2"			DRI-STEEM: DRANE KOOLER. DISCHARGE TEMP. SHALL NOT EXCEED 140 DEGREES
EWC-1	ELECT. WATER COOLER	1/2"			1.5"	1.5"	120/1	ELKAY: LZSTL8WSSK. 1.1 GPM. NSF 42/53. LED FILTER MONITOR, BOTTLE TICKER, GRAY CLAD STEEL PANELS. HIGH / LOW FOR ADA COMPLIANCE.
FCO-1	FLOOR CLEAN OUT				SEE PLANS			SIOUX CHIEF 834 SERIES. ADJUSTABLE TOP, SCORIATED NICKEL BRONZE
FD-1	ROUND FLOOR DRAIN				1.5"	1.5"		SIOUX CHIEF 832 SERIES. 5.5" ROUND NICKEL BRONZE ADJUSTABLE TOP. PROVIDE TRAP GUARD. PROVIDE CLAMPING COLLAR FOR SUSPENDED SLAB USE.
FD-2					2"	1.5"		SIOUX CHIEF: 860-SERIES. SMOOTH ANTI-MICROBIAL PVC GRAY-COLORED BODY. 8.5" ROUND STAINLESS STEEL RING AND PINNED GRATE. STAINLESS STEEL DEBRIS BASKET. 4,500 LB. LOAD RATING. SPECIFY STORE NUMBER WHEN ORDERING. PROVIDE TRAP GUARD.
FG	FIXED AIR GAP				1.5"	1.5"		ZURN: Z1025. CAST IRON BODY W/ SET SCREWS.
FS.1	ROUND PVC FLOOR SINK				2"	1.5"		SIOUX CHIEF 860 SERIES. 8.5" ROUND. PVC 1/2 GRATE. STAINLESS STEEL DEBRIS BASKET. PROVIDE FLANGE FOR SUSPENDED SLAB INSTALLATIONS.
FS.2	FLOOR SINK (CAST IRON)				4"	2"		ZURN: Z1902. 12X12X10. ACID RESISTANT PROCELAIN ENAMEL INTERIOR / HALF-GRATE. PROVIDE W/ TG AND DOME STRAINER .
FS.3					2"	1.5"		ZURN: Z1900. 12X12X6. ACID RESISTANT PROCELAIN ENAMEL INTERIOR / HALF-GRATE. PROVIDE W/ TG AND DOME STRAINER .
FS.4					3"	2"		ZURN: Z1902. 12X12X10. ACID RESISTANT PROCELAIN ENAMEL INTERIOR / HALF-GRATE. PROVIDE W/ TG AND DOME STRAINER .
GCO-1	GRADE CLEAN OUT				SEE P1.1			JR SMITH: 4237 ADJUSTABLE TOP, NON-TILT TRACTOR COVER. VANDAL PROOF SECURING SCREW. GALVANIZED CAST IRON TOP.
GDU-1	GARBAGE DISPOSAL UNIT				1.5"		120/1 @ 1/2 HP	IN-SINK-ERATOR. BADGER 5, 1/2 HP.
HB-C	HOSE BIB - COLD	3/4"						WOODFORD 24P-3/4. INTEGRAL VACUUM BREAKER. CHROME. OPTIONAL KEY OPERATION.
HB-H	HOSE BIB - HOT		3/4"					
HD	HUB DRAIN				SEE PLANS			CHARLOTTE PIPE BELL REDUCER. PROVIDE W/ DEBRIS SCREEN. TOP EDGE SHALL BE NO LESS THAN 1" A.F.F. SEAL PENETRATION OF SLAB W/ ANTI-MICROBIAL SILICONE. C.W.V. CONNECTIONS SHALL CONFORM TO IPC TABLE 909.1.
IMB	ICE MAKER BOX	1/2"						OATEY: 39149. 1/4 TURN VALVE W/ MINI ARRESTORS
L-1	WALL HUNG LAVATORY	1/2"	1/2"		1.5"	1.5"		AMERICAN STANDARD: LUCERNE SNGLE HOLE. FAUCET: AMERICAN STANDARD SELECTRONIC 6055.105. 0.5 GPM. VANDAL RESISTANT LAMINAR FLOW. PROVIDE W/ GRID STRAINER, TV-1, ADA INSULATION, P-TRAP W/ CLEANOUT. SET TV-1 TO 110 DEGREES (MAX)
L-2	UNDER-MOUNT STAINLESS STEEL DOUBLE LAVATORY	1/2"	1/2"		1.5"	1.5"		JUST: OIF-ADA-1521-A. 18 GAUGE STAINLESS STEEL OVAL SINKS W/ OVERFLOW . FULLY COATED UNDER-SIDE. PROVIDE W/ CAST GRID WHEELCHAIR OUTLET TO P-TRAP W/ CLEANOUT PLUG. CHICAGO FAUCET: 116.878.AB.1
L-3	UNDER-MOUNT STAINLESS STEEL SINGLE LAVATORY	1/2"	1/2"		1.5"	1.5"		DECK-MOUNTED FAUCET W/ DUAL BEAM INFRARED SENSOR. ECAST (LOW LEAD) CONSTRUCTION. PROVIDE W/ TV.1. SET TO 110 DEGREES. PROVIDE ADA INSULATION ON ALL EXPOSED FITTINGS.
MMV	MIXING VALVE	1.5"	1.5"				115/1 @ 20 VA	POWERS: LFIS150VL. ASSE 1017. 3.5" COLOR, USER-SELECTABLE TOUCH SCREEN. MOBILE / WEB CAPABLE.
PRV.1	PRESSURE REDUCING VALVE	2.5"						WATTS: LFN223B. HIGH CAPACITY. INSTALL W/ UNIONS. SET OUTLET TO 75 PSI
PRV.2		1.5"						WATTS LFN223. INSTALL W/ UNIONS. SEE DETAIL
PRV.3		1"						
RD/OD	ROOF / OVERFLOW DRAIN							ZURN Z100. 15"Ø. LOW SILHOUETTE DOME. DURA-COATED CAST-IRON BODY. MEMBRANE FLASHING CLAMP. CAST IRON DOME. PROVIDE W/ EXTERNAL WATER DAM FOR OVERFLOW DRAIN. INSULATE BOWL AND HORIZONTALLY INSTALLED PIPING. SEE M2.1 FOR SIZES / FLOW RATES.
RH-1	ROOF HYDRANT (DRAINLESS)	3/4"						WOODFORD: SRH:MS W/ INTEGRAL DUAL CHECK BACKFLOW, AIR VENT, AND FACTORY MOUNTING SYSTEM. ASSE 1057/ 1052. NO DRAIN REQUIRED.
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER	2.5"						WATTS LF009. SENSOR ON RELIEF VALVE FOR FLOOD DETECTION. TIED INTO B.A.S. BY CONTROLS CONTRACTOR. UNIONS ON INLET AND OUTLET.
		1"						
S-1	BREAK ROOM SINK	1/2"	1/2"		2"	1.5"		KOHLER: STACCATO 33" DOUBLE BASIN DROP-IN. 18 GAUGE STAINLESS STEEL. FAUCET: KOHLER: SIMPLICE K-597. PULL-DOWN SPOUT / MAGNETIC DOCKING. PROVIDE W/ GDU-1.
SC-1	SILLCOCK	3/4"						WOODFORD MODEL B67. ASSE 1052 FIELD TESTABLE DOUBLE CHECK BACKFLOW / INTEGRAL VACUUM BREAKER. CHROME LOCK BOX SEALED WATER-TIGHT. COORDINATE WALL DEPTH WITH ARCH. PLANS.
SS.1	SERVICE SINK	1/2"	1/2"		3"	2"		JOHN BOOS: PBMS-2820-12. 16 GAUGE, 300 STAINLESS STEEL. 16" HIGH. PROVIDE W/ AMERICAN STANDARD 8344.112 FAUCET W/ INTEGRAL VACUUM BREAKER.
TD.1	PREP AREA TRENCH DRAIN				2"	2"		ZURN: Z-886. REINFORCED STAINLESS STEEL REVERSE-PUNCH GRATE (20"). LOAD CLASS "C" (56,200 lbs). FACTORY OUTLET, COUPLINGS, AND END PIECES. PROVIDE TRAP GUARD. 6" WIDE, 80" LONG. PRE-SLOPED HDPE CHANNEL.
TD.2	COMPACTOR DRAIN				4" STORM			ACR POWER DRAIN S200K. DUCTILE IRON GRATTE, CLASS E (134,885 LBS). 9.35" W X 19.68" EACH.
TG	TRAP GUARD				PER FIXTURE	N/A		PROVENT: PROSET TRAP GUARD. ELASTOMERIC, NORMALLY-CLOSED TRAP PROTECTION DEVICE.
TRD	TROUGH DRAIN				4"	2"		ZURN Z893. 304 STAINLESS STEEL. 20.3" WIDE X 48" LONG. REINFORCED STAINLESS STEEL SLOTTED GRATE - CLASS "C". PROVIDE BOTTOM DROP-IN BUCKET.
TV.1	TEMPERING VALVE	3/8"	3/8"					SYMMONS: 5-210-CK-MAXLINE. SET TO 110 DEGREES. ASSE 1017/1070
U.1	INFRARED FLUSH VALVE URINAL	3/4"			2"	1.5"		AMERICAN STANDARD: WASHBROOK 6590. 0.125-1.0 GPF. SLOAN VALVE: G2 OPTIMA PLUS 8186 (0.5 GPF). BATTERY OPERATED. SEE ARCH. FOR ELEVATIONS.
VF	VENT FILTER				SEE M2.1			ODORHOG. BLACK ABS W/ MUSHROOM CAP. COMMERCIAL CHARCOAL. INSTALL NO LESS THAN 18" ABOVE ROOF.
WC-1	WATER CLOSET - ADA	1"			4"	2"		AMERICAN STANDARD: MADERA. FLOOR MOUNT. W/ BENEKE OPEN FRONT SEAT. SLOAN VALVE: ROYAL 111
WC-2	WATER CLOSET	1"			4"	2"		SMO. 1.6 GPF. BATTERY OPERATED.
WCO	WALL CLEAN OUT				SEE PLANS	SEE PLANS		SIOUX CHIEF 873 SERIES W/ STAINLESS STEEL COVER.
WHA-1	WATER HAMMER ARRESTOR							SIOUX CHIEF: HYDRARESTOR. ADHERE TO PDI-WH201 REQUIREMENTS FOR SIZING / LOCATIONS. COORDINATE ACCESS PANELS W/ PM / OWNER.
WS	WATER STATION	1/4"					120/1	"THE ICON" TOUCHLESS DISPENSER. COOLED / AMBIENT HEADS. PROVIDE FACTORY FILTER.

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HARMONS

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MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 11, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
PVE PROJECT NO: 26076.00

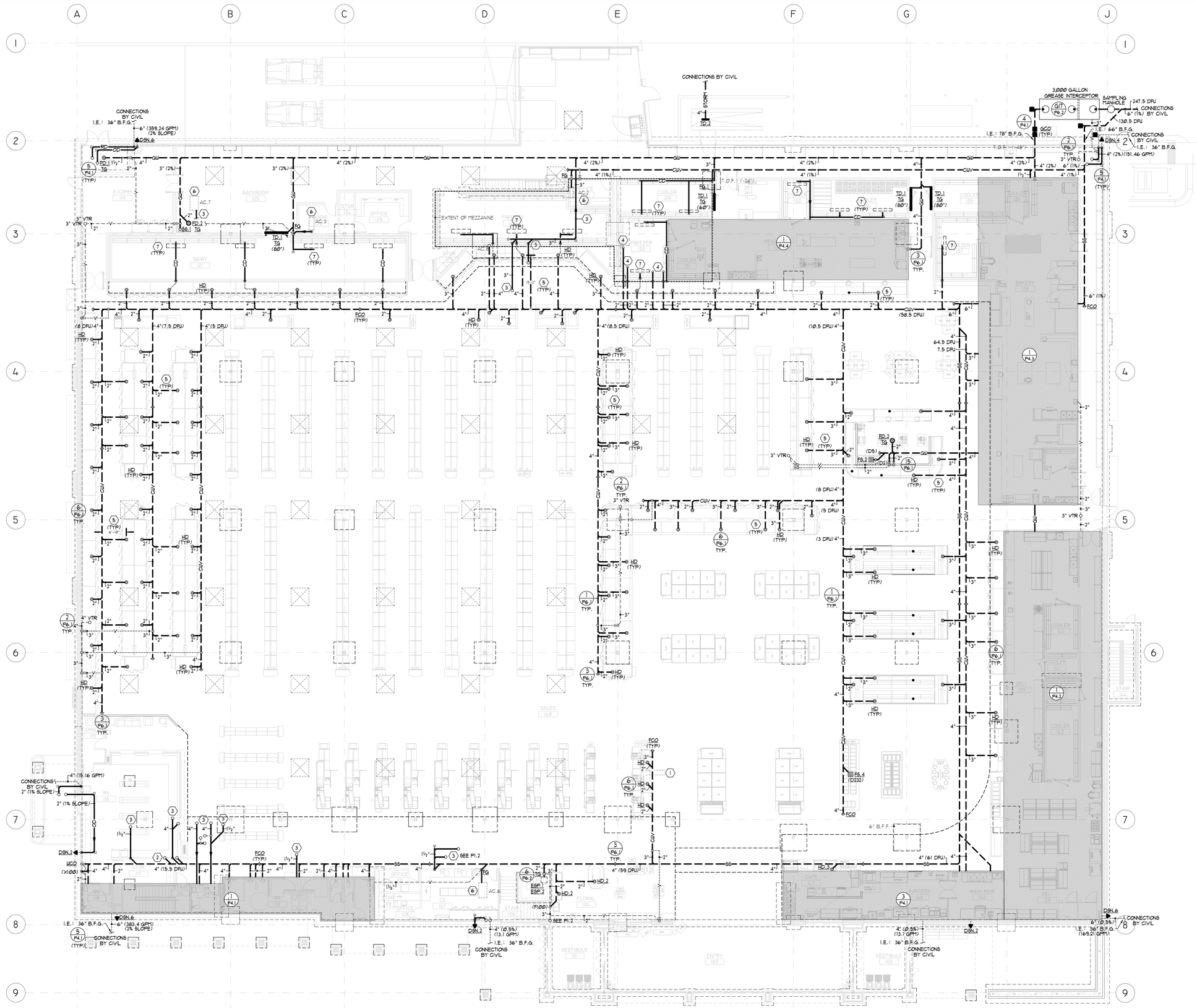
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ARCHITECTURAL PHASE: BID SET

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PLUMBING SCHEDULES

P0.3

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1 P1.1 SANITARY FLOOR PLAN

SCALE: 3/32" = 1' - 0" 6' 0 4' 8' 12' 16'

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P1.1 KEYED NOTES:

1. WALKER DUCT. SEE ELECTRICAL.
2. SEE 1, P5.2.
3. INSULATE OVERHEAD CAST IRON WASTE PIPING.
4. INSULATE OVERHEAD PVC / ABS WASTE PIPING.
5. MAXIMUM DISTANCE OF FIXTURE FROM TRAP SHALL NOT EXCEED THAT OF TABLE 909.1.
6. COORDINATE HVAC EQUIP. CONNECTIONS WITH M.C.
7. SEE REFRIGERATION FOR COIL CONNECTION REQUIREMENTS. USE PLUMBING PLANS FOR DRAIN LOCATIONS, NOT REFRIGERATION.

GENERAL NOTES:

1. PIPING SHALL NOT CROSS SKY LIGHTS. COORDINATE CONFLICTS WITH PROJECT MANAGER AND ENGINEER.
2. DRAINS SERVING REFRIGERATED CASES UTILIZE A COMBINATION WASTE / VENT SYSTEM. ALL CONNECTIONS SHALL CONFORM TO SECTION 915 AND TABLE 909.1 OF THE 2024 INTERNATIONAL PLUMBING CODE.
3. UTAH AMENDMENT 154-3-309: "HORIZONTAL DRY VENTS BELOW THE FLOOD RIM SHALL BE PERMITTED FOR FLOOR DRAIN AND FLOOR SINK INSTALLATIONS WHEN INSTALLED IN ACCORDANCE WITH SECTIONS 702.2, 905.2, AND 909.3, AND PROVIDED W/ A WALL CLEANOUT.
4. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS, AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
5. SURFACE-MOUNTED PIPING IS NOT ALLOWED IN PREP AREAS.
6. DO NOT INSTALL EXPOSED VENT PIPING IN SALES AREA BELOW 14-FEET OR CUSTOMER VISION AREAS. COORDINATE LOCATION TO BE GROUPED WITH OTHER PIPING AND CONDUITS EXTENDING TO ROOF.
7. ALL PIPE DROPS IN SALES AREA FROM ROOF FRAMING TO EITHER LOW WALLS OR EQUIPMENT SHOULD BE COORDINATED AND GROUPED TOGETHER WITH OTHER PIPES AND CONDUITS. PROVIDE / INSTALL BENT METAL PLATES OVER EXPOSED PIPING IN LOCATIONS WHERE THEY MAY BE SUBJECT TO DAMAGE.

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SANITARY FLOOR PLAN

P1.1

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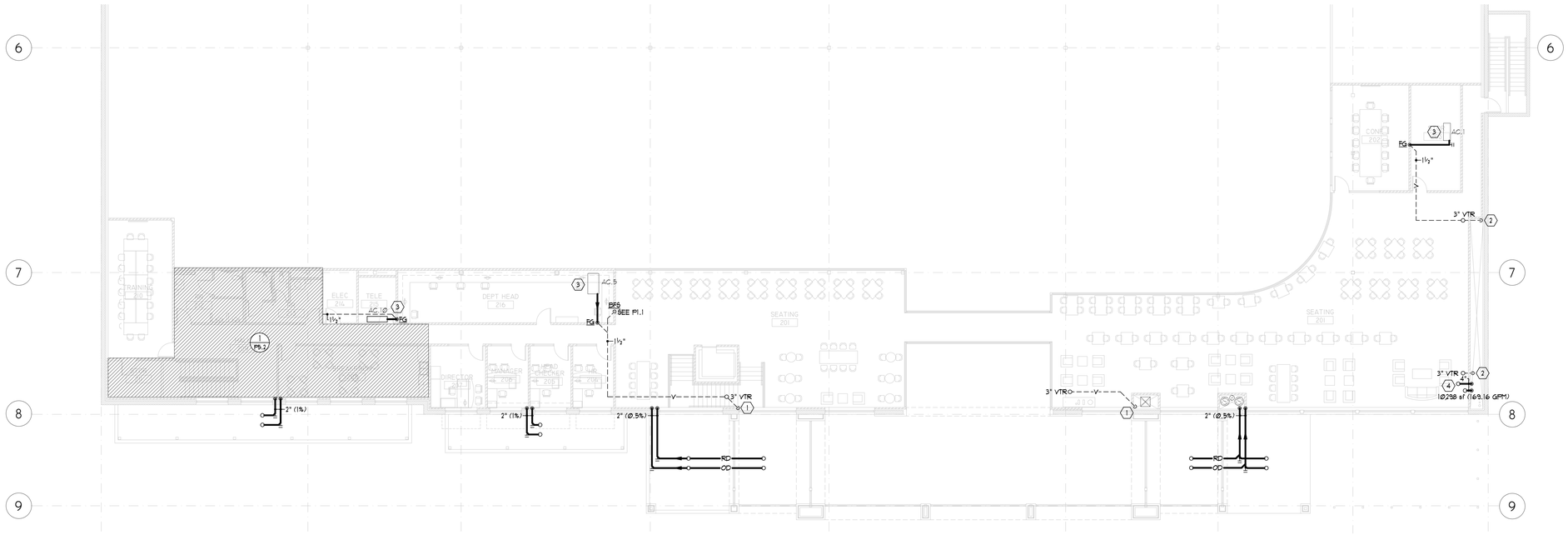
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P1.2 KEYED NOTES:

1. 3" VENT RISER. SEE 3, P4.1.
2. 3" VENT RISER. SEE 1, P4.2.
3. COORDINATE HVAC EQUIP. CONNECTIONS WITH M.C.
4. EXPOSED STORM DRAINS TO BE PIPED WITH CAST IRON. TRANSITION TO PVC / ABS IN CEILING OF LEVEL ONE.

GENERAL NOTES:

1. EXPOSED PIPES TO BE PAINTED. COORDINATE W/ G.C. FOR INSTALLATION OF PIPE IDENTIFICATION TAGS.
2. PIPING SHALL NOT CROSS SKY LIGHTS. COORDINATE CONFLICTS WITH PROJECT MANAGER AND ENGINEER.
3. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS, AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.



1 P1.2 SANITARY FLOOR PLAN - MEZZANINE

SCALE: 3/32" = 1' - Ø" 6' Ø 4' 8' 12' 16'

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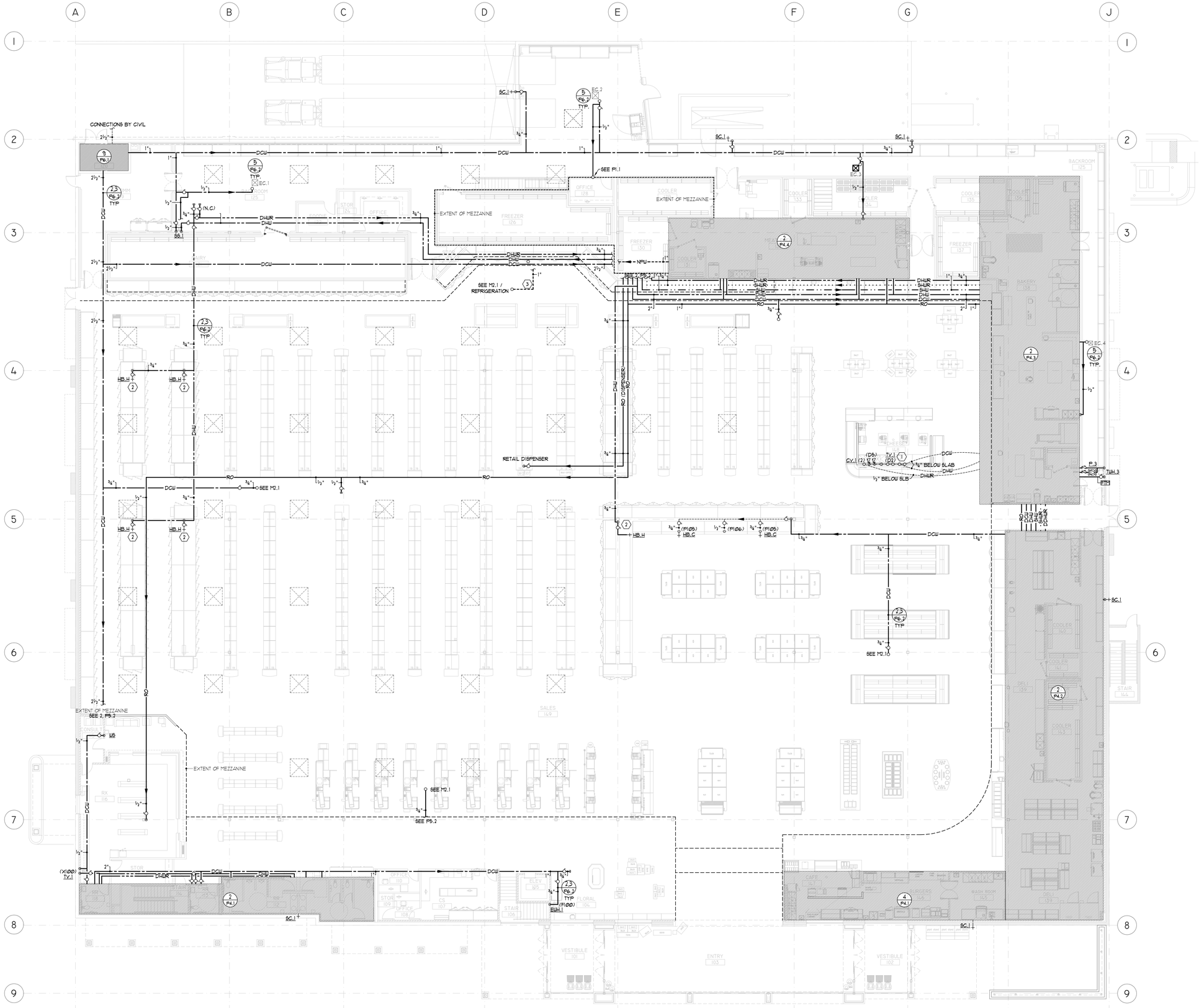
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SHEET TITLE

SANITARY FLOOR PLAN - MEZZANINE

P1.2



DOMESTIC FLOOR PLAN

SCALE: 3/32" = 1' - 0"

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KEYED NOTES:

1. PROVIDE ISOLATION VALVES AND ACCESS PANEL(S). ROUTE PIPING LOW, AND ATTACHED TO BACK OF CASE.
2. ¾" DHW DROP AT COLUMN LINE. PROVIDE ISOLATION VALVE ON TOP OF CASE.
3. SLOPE MAKE-UP WATER BACK TOWARDS WATER HEATER ROOM DRAIN. SEE P5.1.

GENERAL NOTES:

1. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
2. WATER SUPPLY LINES FOR CARBONATED, COFFEE AND NON-CARBONATED DRINK DISPENSERS MUST HAVE BACK-FLOW PROTECTION THAT MEETS THE ASSE 1022 STANDARD.
3. ALL TUBING / PIPING FOR DRINK DISPENSING EQUIPMENT SHALL BE NSF APPROVED.
4. SURFACE-MOUNTED PIPING IS NOT ALLOWED IN PREP AREAS.
5. PIPE ENDS SHALL BE CAPPED WHEN WORK IS NOT BEING PERFORMED.
6. FLOW MONITORING DEVICES ARE TO BE PROVIDED BY CONTROLS CONTRACTOR, INSTALLED BY P.C.

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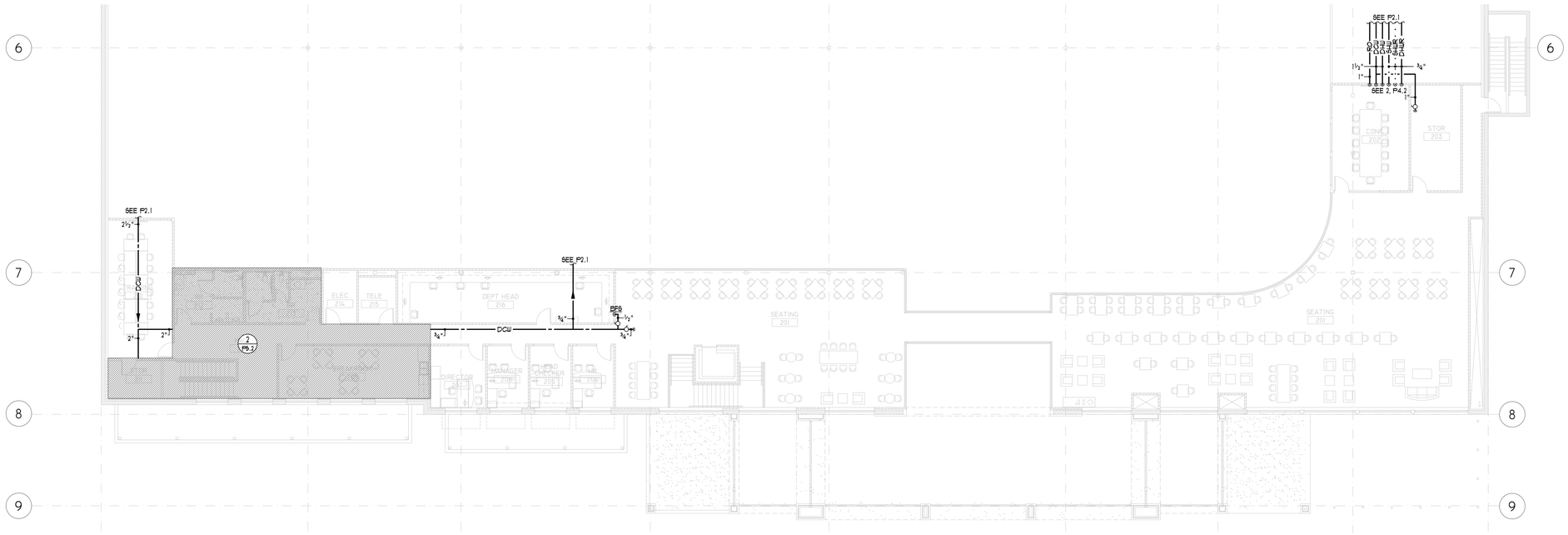
SHEET TITLE

DOMESTIC FLOOR PLAN

P2.1

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1 P2.2 DOMESTIC FLOOR PLAN - MEZZANINE

SCALE: 3/32" = 1' - 0" 6' 0 4' 8' 12' 16'

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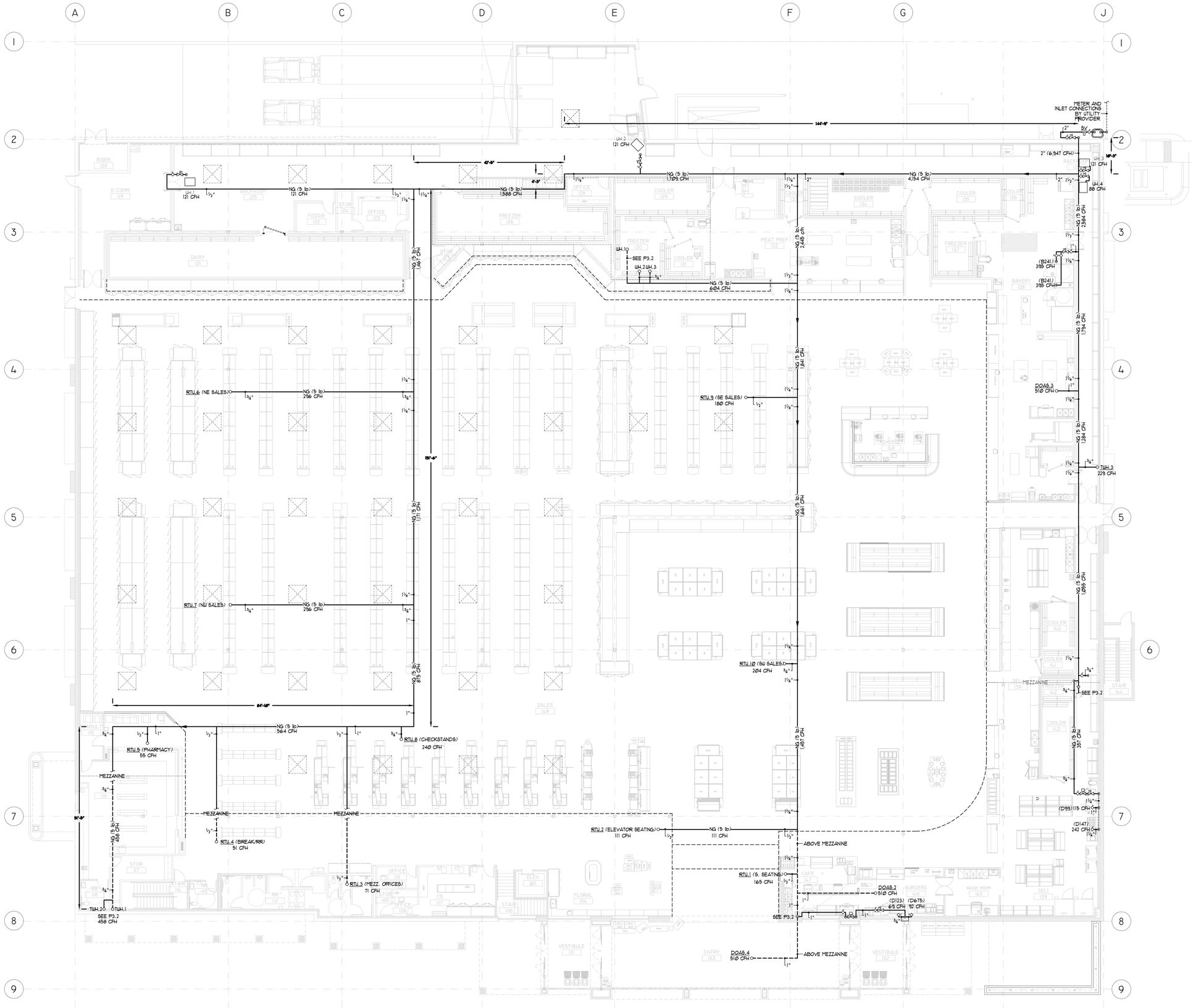
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DOMESTIC FLOOR PLAN - MEZZANINE

P2.2



1 P3.1 NATURAL GAS FLOOR PLAN

SCALE: 3/32" = 1' - 0" 6' 0 4' 8' 12' 16'

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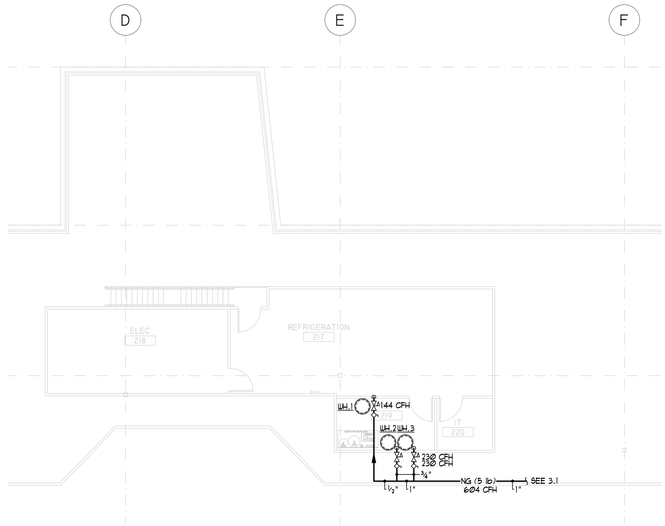
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NATURAL GAS FLOOR PLAN

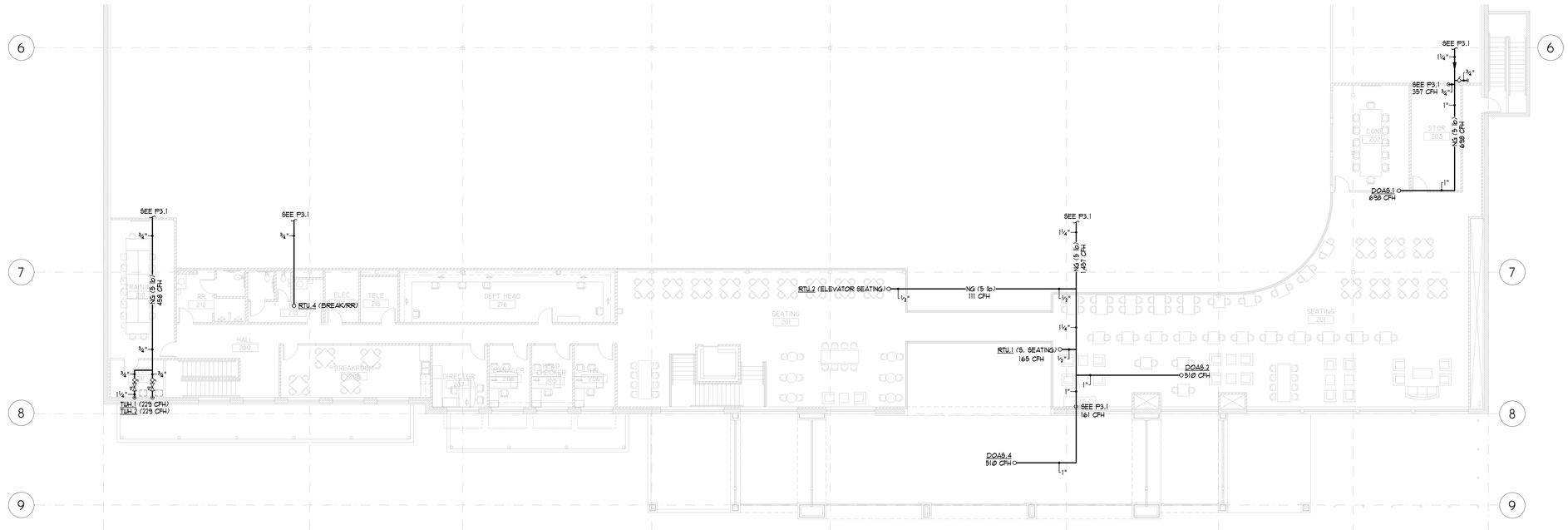
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1 P3.2 NATURAL GAS PLAN - REAR MEZZANINE
SCALE: 3/32" = 1' - 0"



2 P3.2 NATURAL GAS - FRONT MEZZANINE
SCALE: 3/32" = 1' - 0"

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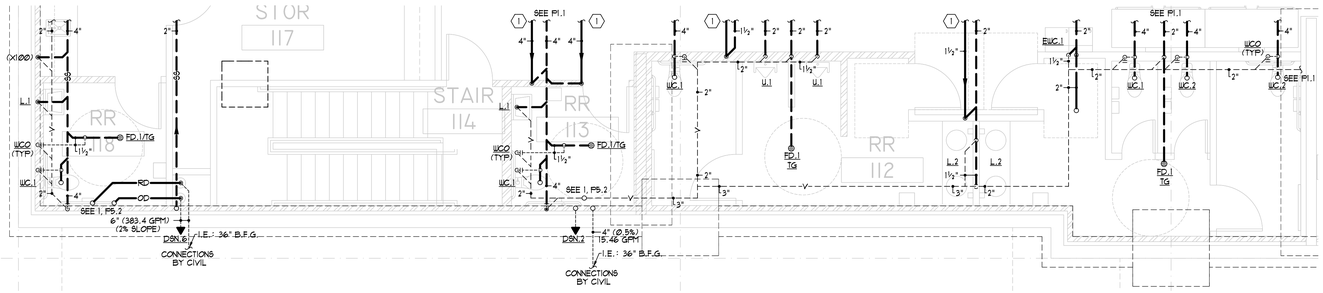
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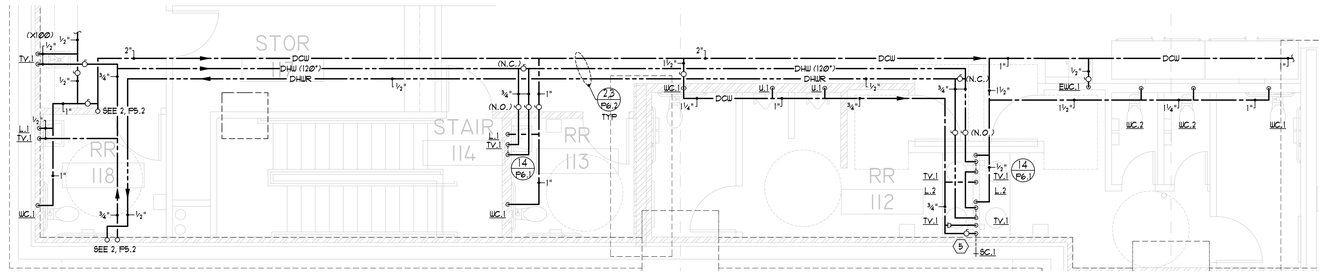
NATURAL GAS FLOOR PLAN - MEZZANINE

P3.2



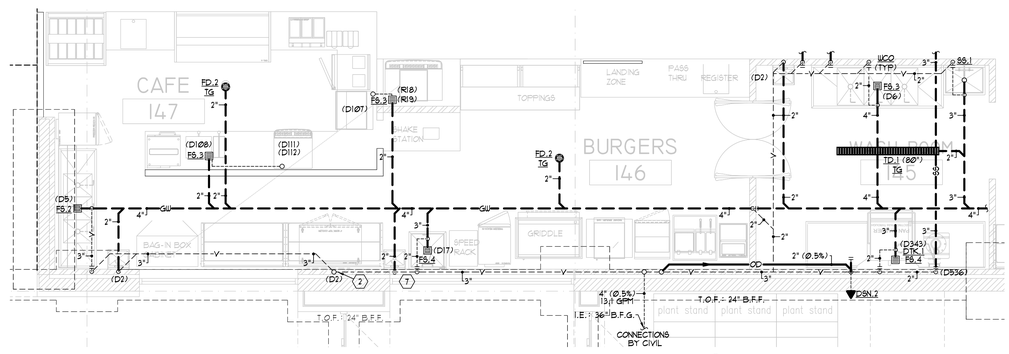
1 P4.1 SANITARY FLOOR PLAN - RESTROOMS

SCALE: 1/4" = 1' - Ø"



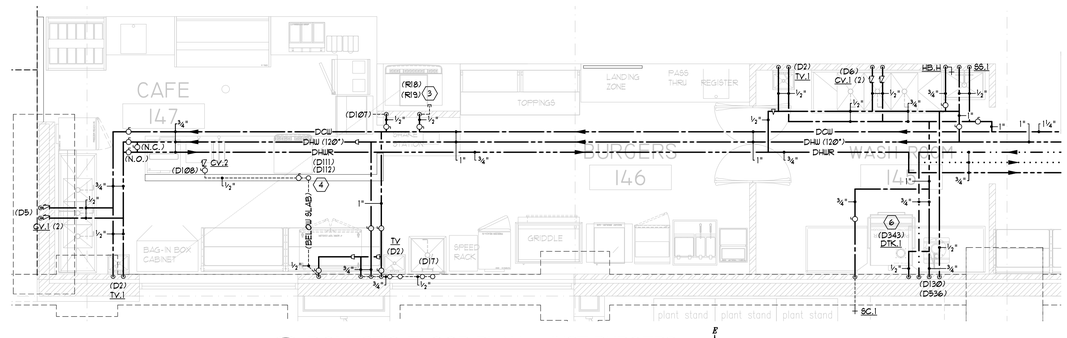
2 P4.1 DOMESTIC FLOOR PLAN - RESTROOMS

SCALE: 1/4" = 1' - Ø"



3 P4.1 SANITARY FLOOR PLAN - JUST BURGERS

SCALE: 1/4" = 1' - Ø"



4 P4.1 DOMESTIC FLOOR PLAN - JUST BURGERS

SCALE: 1/4" = 1' - Ø"

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P4.1 KEYED NOTES:

1. INSULATE OVERHEAD WASTE PIPING. SEE P1.1 AND 1, P5.2.
2. 3" VENT RISER. SEE P1.2.
3. CAP ½" DCW RISER IN MILLWORK FOR FINAL EQUIP. CONNECTIONS (R18/R19) BY VENDOR. CHECK VALVE / FILTER BY VENDOR.
4. RISE BELOU SLAB PIPING / ROUTE THROUGH LOW WALL.
5. PROVIDE ISOLATION VALVE / ACCESS PANEL UNDER MILLWORK FOR SC.1.
6. HOOD BY M.C. COORDINATE EQUIP. CONNECTIONS.
7. ROUTE VENT FOR D2/D17 UNDER WINDOW.

GENERAL NOTES:

1. EXPOSED PIPES TO BE PAINTED BY G.C.
2. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS, AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
3. SURFACE-MOUNTED PIPING IS NOT ALLOWED IN PREP AREAS.
4. WATER SUPPLY LINES FOR DRINK DISPENSERS MUST HAVE BACK-FLOW PROTECTION THAT MEETS THE ASSE 1022 STANDARD.
5. ALL TUBING / PIPING FOR DRINK DISPENSING EQUIPMENT SHALL BE NSF APPROVED.
6. TEMPERING VALVES AT HAND WASHING SINKS SHALL NOT EXCEED 100° F.
7. FLOOR SINKS SERVING REFRIGERATED CASES UTILIZE A COMBINATION WASTE / VENT SYSTEM. ALL CONNECTIONS SHALL CONFORM TO SECTION 915 AND TABLE 909.1 OF THE 2024 INTERNATIONAL PLUMBING CODE. PIPE SIZES ON FLOOR PLANS SHALL OVERRIDE SCHEDULED SIZES TO CONFORM TO C.U.V. REQUIREMENTS.

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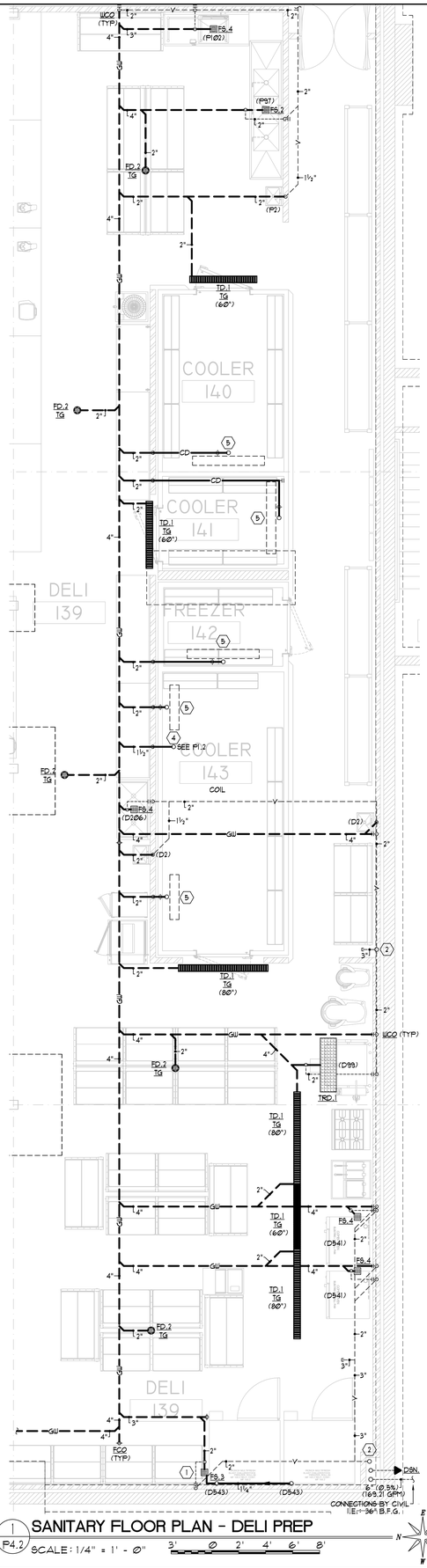
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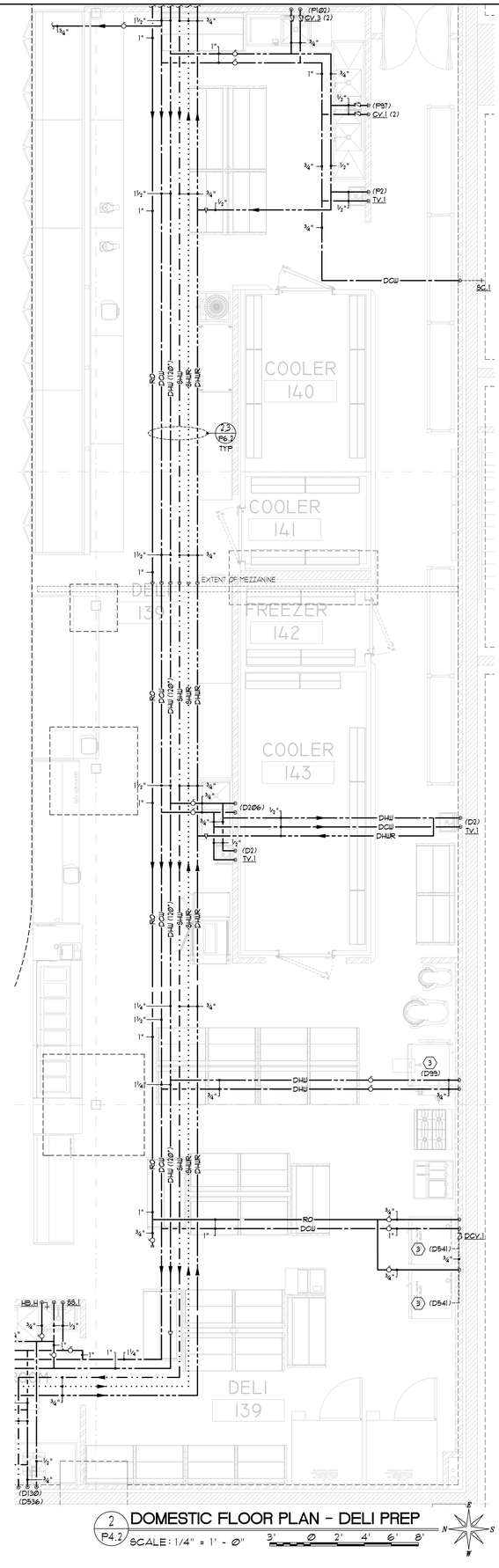
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P4.1



1 P4.2 SANITARY FLOOR PLAN - DELI PREP

SCALE: 1/4" = 1' - Ø"



2 P4.2 DOMESTIC FLOOR PLAN - DELI PREP

SCALE: 1/4" = 1' - Ø"

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P4.2 KEYED NOTES:

1. COORDINATE DRAIN LOCATION W/ G.C. AND CHILLER PIT.
2. 3" VENT RISER. SEE P1.2.
3. HOOD BY M.C. COORDINATE EQUIP. CONNECTIONS.
4. INSULATE OVERHEAD PVC / ABS WASTE PIPING.
5. SEE REFRIGERATION FOR COIL CONNECTION REQUIREMENTS.

GENERAL NOTES:

1. EXPOSED PIPES TO BE PAINTED BY G.C.
2. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS, AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
3. SURFACE-MOUNTED PIPING IS NOT ALLOWED IN PREP AREAS.
4. TEMPERING VALVES AT HAND WASHING SINKS SHALL NOT EXCEED 1ØØ° F.

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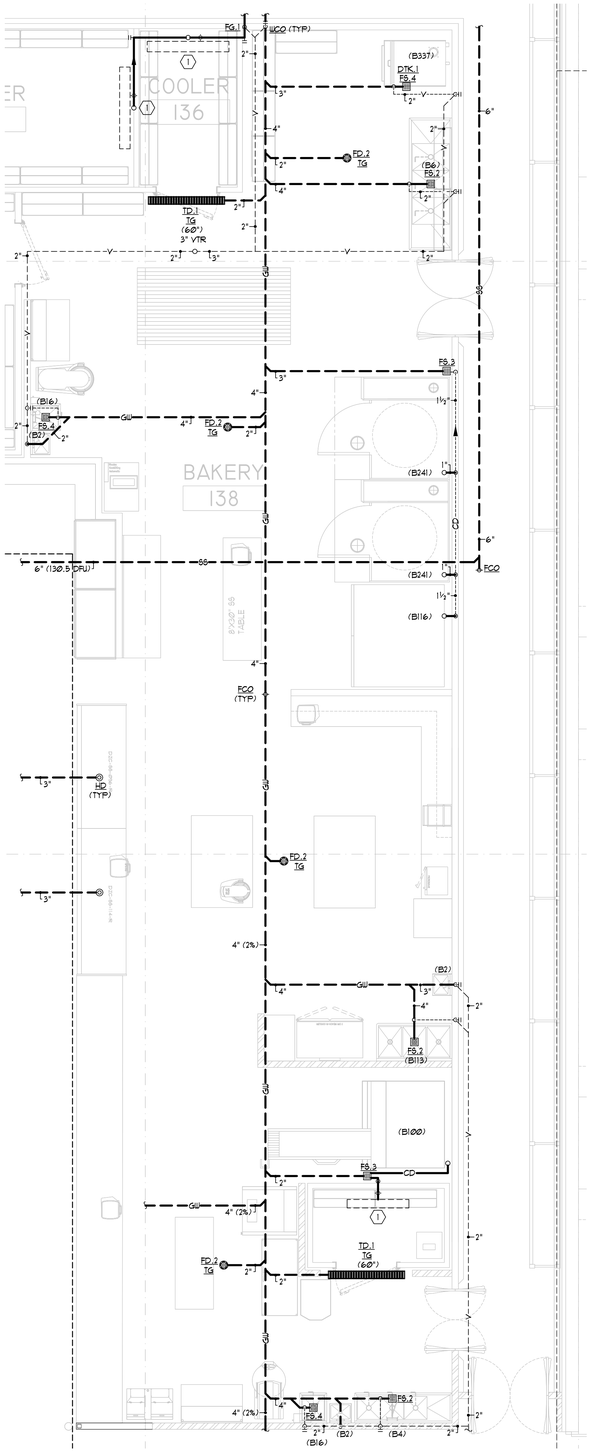
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AGENCY PROJECT NO:	
DESIGN SEQUENCE PROJECT NO:	
PVE PROJECT NO:	26076.00
DRAWN BY:	BNS
CONTACT:	BSPARKS@PVE-UT.COM
DWG TYPE:	
ARCHITECTURAL PHASE:	BID SET

SHEET TITLE

ENLARGED PLUMBING PLANS

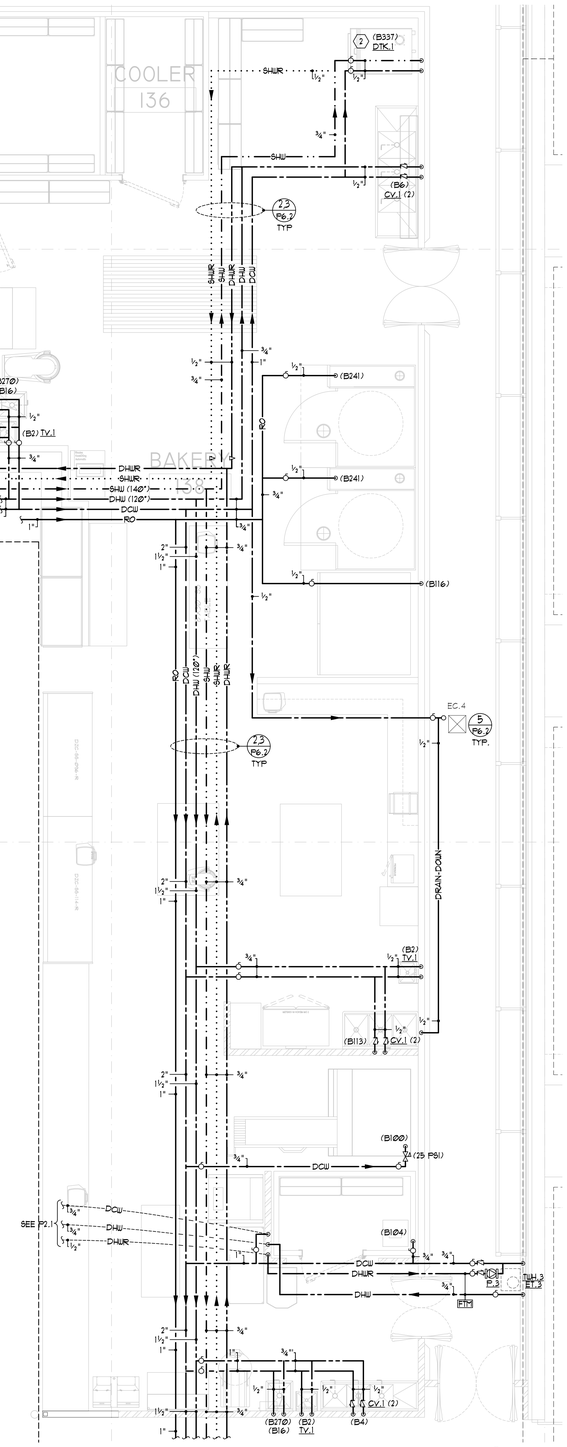
P4.2

PVE
1040 N 2200 WEST SALT LAKE CITY UTAH
T: 801.359.3158 www.pve-ut.com



1 P4.3 SANITARY FLOOR PLAN - BAKERY

SCALE: 1/4" = 1' - Ø"



2 P4.3 DOMESTIC FLOOR PLAN - BAKERY

SCALE: 1/4" = 1' - Ø"

design
Sequence
350 South 200 East, #106
Salt Lake City, Utah 84111
P: 801.596.0691
DesignUtah.com

P4.3 KEYED NOTES:

1. See refrigeration for coil connection requirements.
2. Hood by M.C. Coordinate equip. connections.

GENERAL NOTES:

1. Exposed pipes to be painted by G.C.
2. General contractor is responsible for the patching / repairing of any walls, floors, ceilings, and roofs needed as a result of work being performed.
3. Surface-mounted piping is not allowed in prep areas.
4. Tempering valves at hand washing sinks shall not exceed 100° F.
5. Flow monitoring devices are to be provided by controls contractor, installed by P.C.

HARMONS

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

MARK	DATE	DESCRIPTION

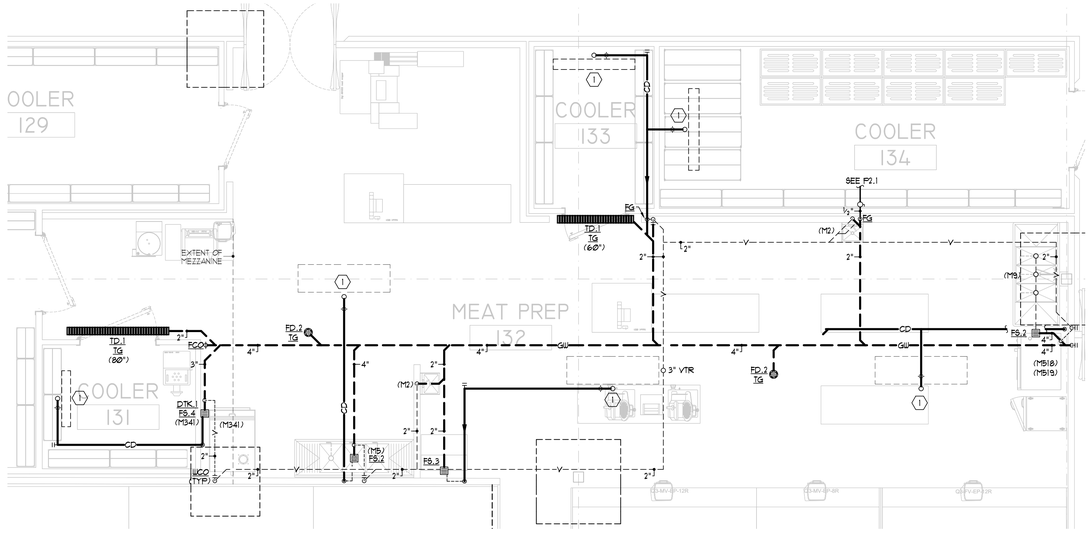
DATE:	SEPTEMBER 11, 2026
AGENCY PROJECT NO:	
DESIGN SEQUENCE PROJECT NO:	
PVE PROJECT NO:	26076.00
DRAWN BY:	BNS
CONTACT:	BSPARKS@PVE-UT.COM
DWG TYPE:	
ARCHITECTURAL PHASE:	BID SET

SHEET TITLE

ENLARGED PLUMBING PLANS

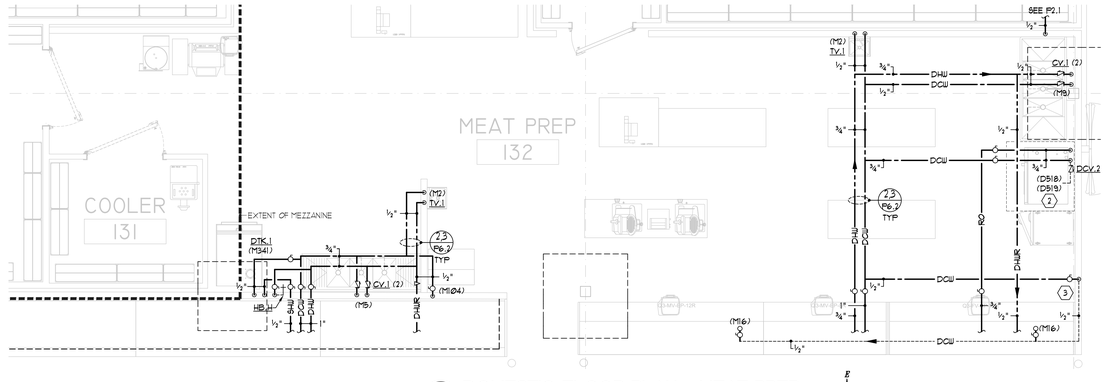
P4.3

PVE
1040 N 2200 WEST SALT LAKE CITY UTAH
T: 801.359.3158 www.pve-ut.com



1 P4.4 SANITARY FLOOR PLAN - MEAT PREP

SCALE: 1/4" = 1' - 0"



2 P4.4 DOMESTIC FLOOR PLAN - MEAT PREP

SCALE: 1/4" = 1' - 0"

design
Sequence
350 South 200 East, #106
Salt Lake City, Utah 84111
P: 801.596.0691
DesignUtah.com

P4.4 KEYED NOTES:

1. See refrigeration for coil connection requirements.
2. Hood by M.C. Coordinate equip. connections.
3. Route piping through wall / under case for connections to misting system, by others.

GENERAL NOTES:

1. Exposed pipes to be painted by G.C.
2. General contractor is responsible for the patching / repairing of any walls, floors, ceilings, and roofs needed as a result of work being performed.
3. Surface-mounted piping is not allowed in prep areas.
4. Tempering valves at hand washing sinks shall not exceed 100° F.

HARMONS

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

MARK	DATE	DESCRIPTION

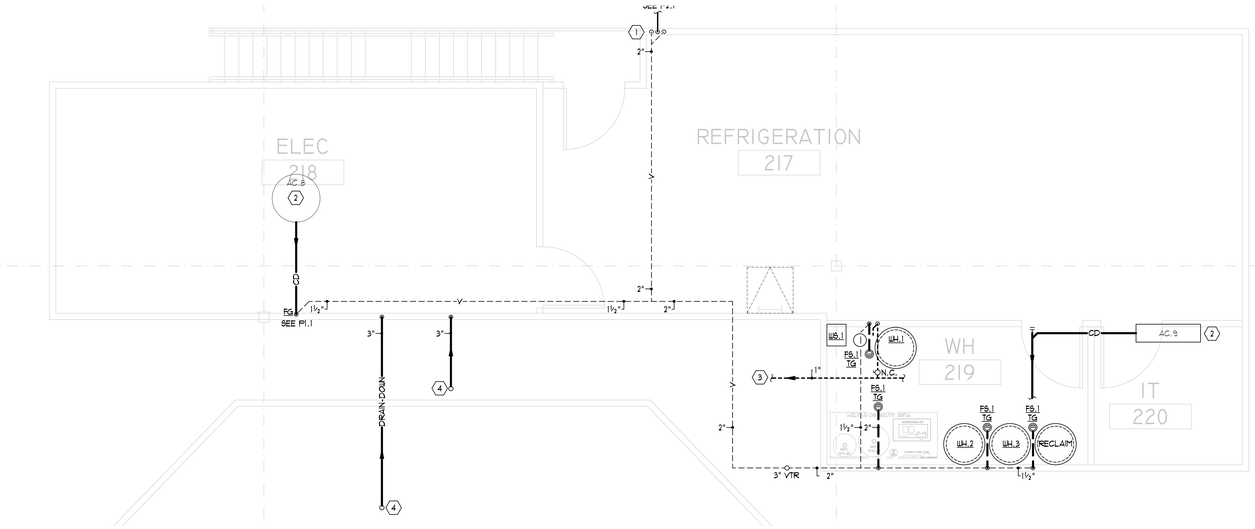
DATE:	SEPTEMBER 11, 2026
AGENCY PROJECT NO:	
DESIGN SEQUENCE PROJECT NO:	
PVE PROJECT NO:	26076.00
DRAWN BY:	BNS
CONTACT:	BSPARKS@PVE-UT.COM
DWG TYPE:	
ARCHITECTURAL PHASE:	BID SET

SHEET TITLE

ENLARGED PLUMBING PLANS

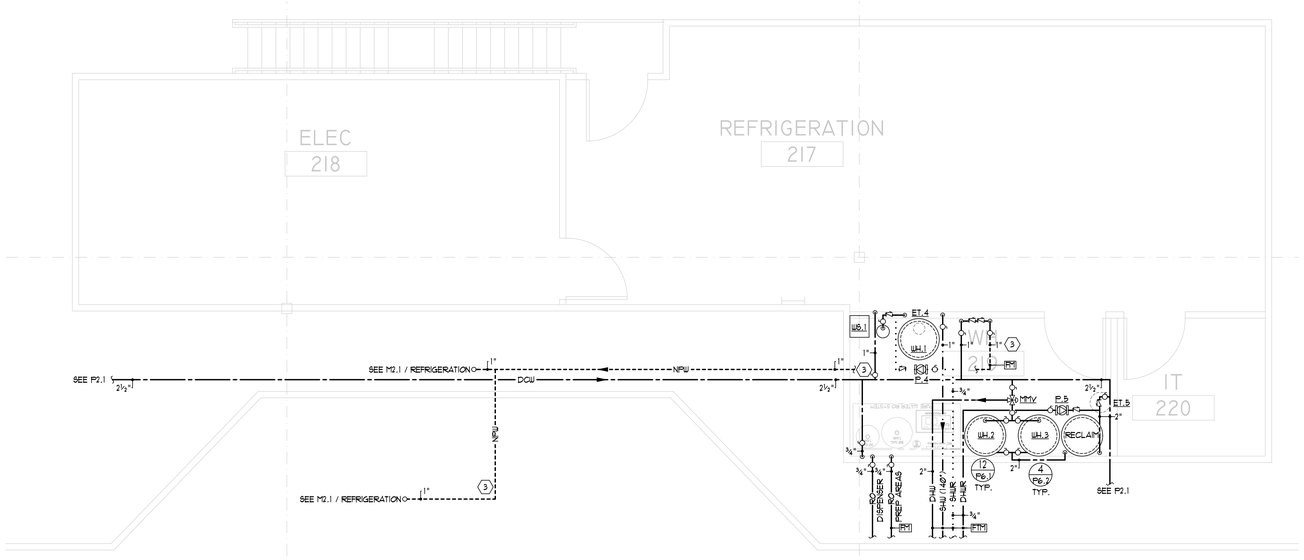
P4.4

PVE
1040 N 2200 WEST SALT LAKE CITY UTAH
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1 P5.1 SANITARY FLOOR PLAN - REAR MEZZANINE

SCALE: 1/4" = 1' - 0"



2 P5.1 DOMESTIC FLOOR PLAN - REAR MEZZANINE

SCALE: 1/4" = 1' - 0"

design
Sequence
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Salt Lake City, Utah 84111
P: 801.596.0691
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P5.1 KEYED NOTES:

1. 2" VENT RISER. SEE P1.1.
2. COORDINATE HVAC EQUIP. CONNECTIONS WITH M.C.
3. SLOPE MAKE-UP WATER PIPING BACK TOWARDS DRAIN. TERMINATE WITH AN ISOLATION VALVE AND AIR GAP.
4. INSULATE OVERHEAD CAST IRON WASTE PIPING FROM ADIABATIC COOLER ON ROOF.

GENERAL NOTES:

1. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
2. PIPE ENDS SHALL BE CAPPED WHEN WORK IS NOT BEING PERFORMED.
3. FLOW MONITORING DEVICES ARE TO BE PROVIDED BY CONTROLS CONTRACTOR, INSTALLED BY P.C.

HARMONS

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

MARK	DATE	DESCRIPTION

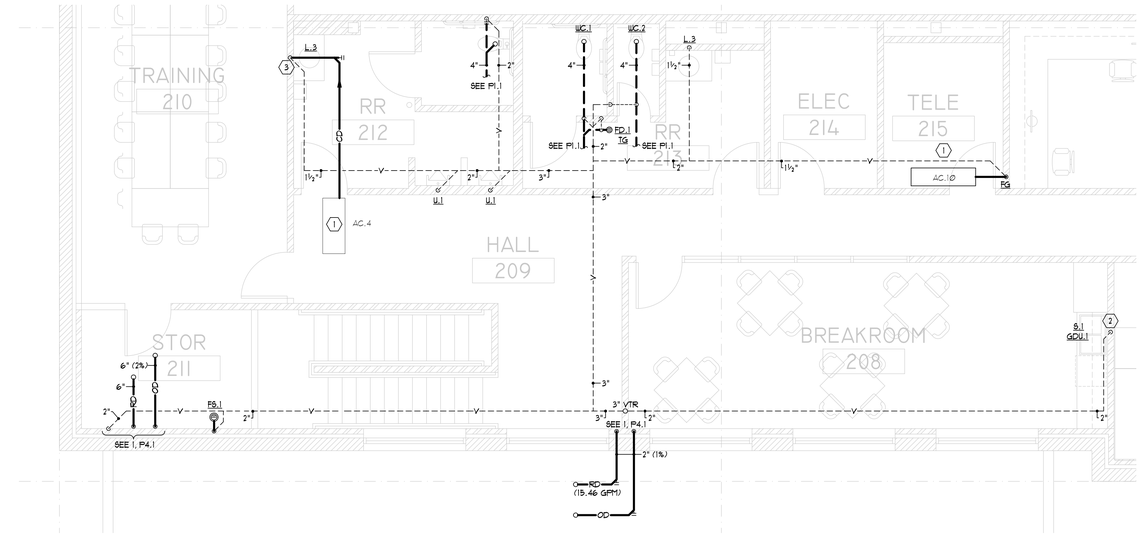
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AGENCY PROJECT NO:	
DESIGN SEQUENCE PROJECT NO:	
PVE PROJECT NO:	26076.00
DRAWN BY:	BNS
CONTACT:	BSPARKS@PVE-UT.COM
DWG TYPE:	
ARCHITECTURAL PHASE:	BID SET

SHEET TITLE

PLUMBING FLOOR PLANS - REAR MEZZANINE

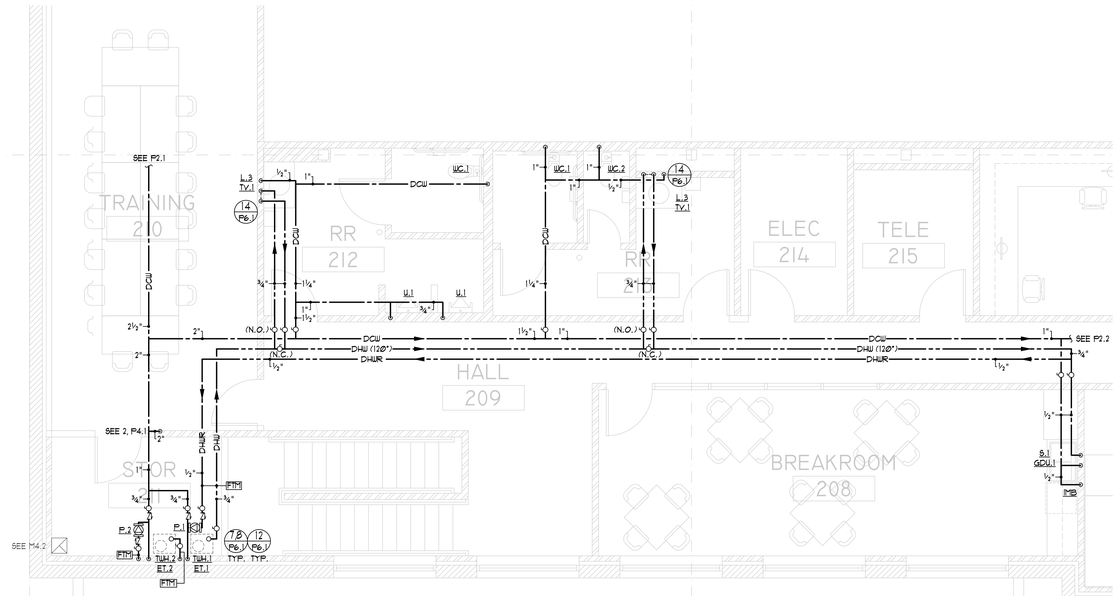
P5.1

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1 P5.2 SANITARY FLOOR PLAN - MEZZANINE

SCALE: 1/4" = 1' - 0"



2 P5.2 DOMESTIC FLOOR PLAN - MEZZANINE

SCALE: 1/4" = 1' - 0"

design
Sequence
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Salt Lake City, Utah 84111
P: 801.596.0691
DesignUtah.com

P5.2 KEYED NOTES:

1. COORDINATE HVAC EQUIP. CONNECTIONS WITH M.C.
2. 2" WASTE DROP. SEE 1, P4.1.
3. TERMINATE AT WYE TAILPIECE UNDER SINK.

GENERAL NOTES:

1. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PATCHING / REPAIRING OF ANY WALLS, FLOORS, CEILINGS AND ROOFS NEEDED AS A RESULT OF WORK BEING PERFORMED.
2. PIPE ENDS SHALL BE CAPPED WHEN WORK IS NOT BEING PERFORMED.
3. FLOW MONITORING DEVICES ARE TO BE PROVIDED BY CONTROLS CONTRACTOR, INSTALLED BY P.C.

HARMONS

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

MARK	DATE	DESCRIPTION

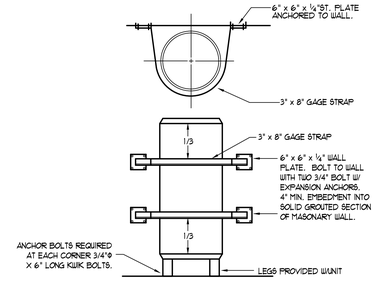
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AGENCY PROJECT NO:	
DESIGN SEQUENCE PROJECT NO:	
PVE PROJECT NO:	26076.00
DRAWN BY:	BNS
CONTACT:	BSPARKS@PVE-UT.COM
DWG TYPE:	
ARCHITECTURAL PHASE:	BID SET

SHEET TITLE

PLUMBING
FLOOR PLANS
- MEZZANINE

PVE
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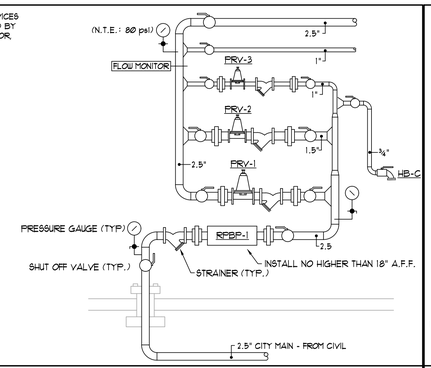
P5.2



13 P6.1 FLOOR MOUNTED EQUIPMENT ANCHOR & STRAP DETAIL

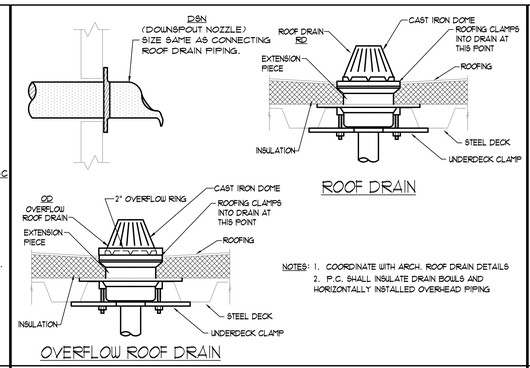
SCALE: NOT TO SCALE

FLOW MONITORING DEVICES ARE TO BE PROVIDED BY CONTROLS CONTRACTOR. INSTALLED BY P.C.



9 P6.1 DOMESTIC WATER PRV STATION DETAIL

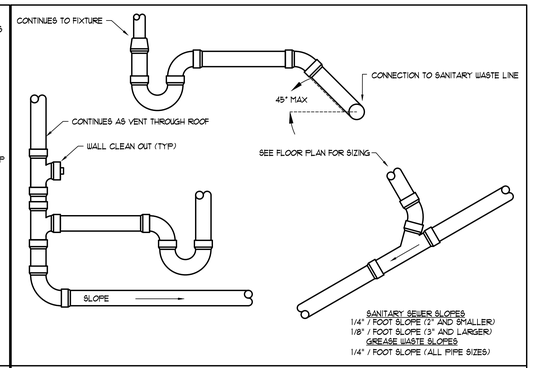
SCALE: NOT TO SCALE



NOTES: 1. COORDINATE WITH ARCH. ROOF DRAIN DETAILS
2. P.C. SHALL INSULATE DRAIN BOWLS AND HORIZONTALLY INSTALLED OVERHEAD PIPING

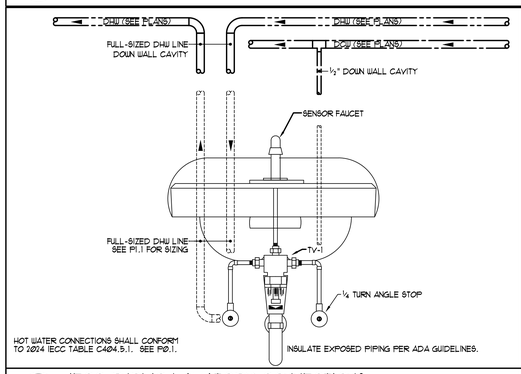
5 P6.1 ROOF DRAIN & OVERFLOW ROOF DRAIN DETAIL

SCALE: NOT TO SCALE



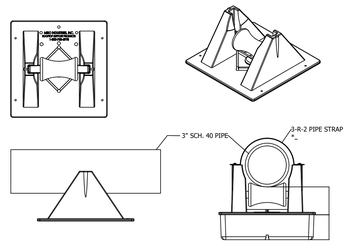
1 P6.1 TYPICAL WASTE CONNECTIONS

SCALE: NOT TO SCALE



14 P6.1 IECC PUBLIC LAVATORY CONNECTIONS

SCALE: NOT TO SCALE



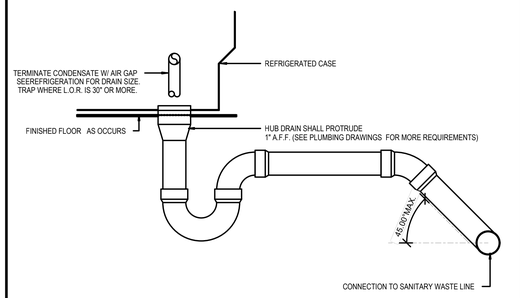
SUPPORT OF GAS PIPING

SIZE OF PIPE (in.)	DISTANCE OF SUPPORTS (ft.)
1/2"	6
3/4"- 1"	8
1-1/4 & LARGER (HORIZONTAL)	10
1-1/4 & LARGER (VERTICAL)	EVERY FLOOR LEVEL

IRGC TABLE 415.1 FOR SCHED. 40 STEEL

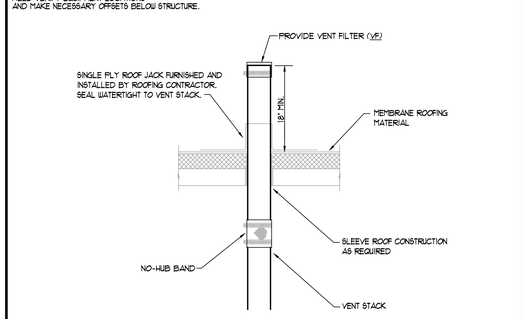
10 P6.1 GAS PIPING SUPPORT DETAIL - MIRO BLOCK

SCALE: NOT TO SCALE



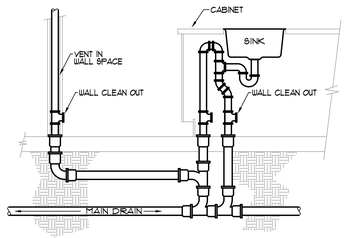
6 P6.1 CASE CONNECTION DETAIL

SCALE: NOT TO SCALE



2 P6.1 VENT THROUGH ROOF DETAIL

SCALE: NOT TO SCALE

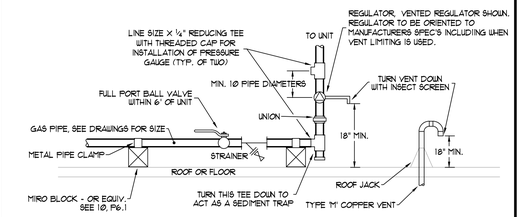


15 P6.1 ISLAND SINK VENT DETAIL

SCALE: NOT TO SCALE

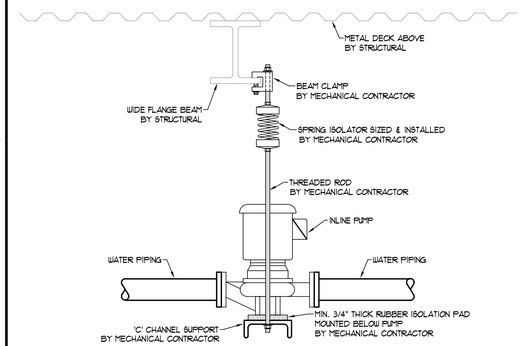
VENT LINE SIZING	
FUEL LINE SIZE (NOMINAL INCHES)	VENT LINE SIZE (NOMINAL INCHES)
UP TO 1½	¾
2	1
2½	1¼
3	1¼
4	2
5	2
6	2½
8	3

ALL EXPOSED NG PIPING IS TO BE PAINTED. APPLY ONE COAT OF DEVGUARD EXTERIOR, MULTI-PURPOSE PRIMER AND ONE COAT OF GRAY, UNIGRIP, WATER-BASED AQUACRYLIC SEMI-GLOSS PAINT.



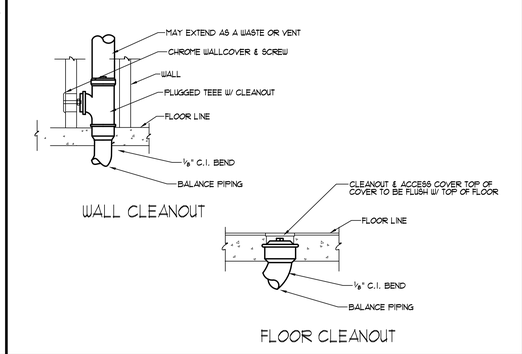
11 P6.1 NATURAL GAS PRV DETAIL

SCALE: NOT TO SCALE



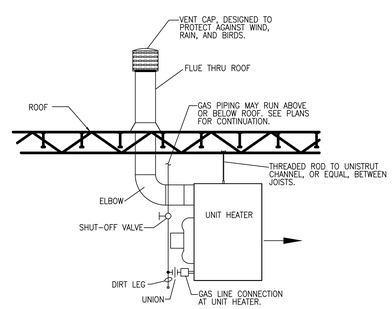
7 P6.1 IN-LINE PUMP SUPPORT DETAIL

SCALE: NOT TO SCALE



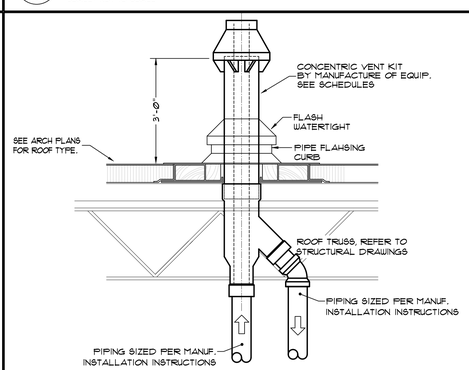
3 P6.1 CLEANOUT DETAIL

SCALE: NOT TO SCALE



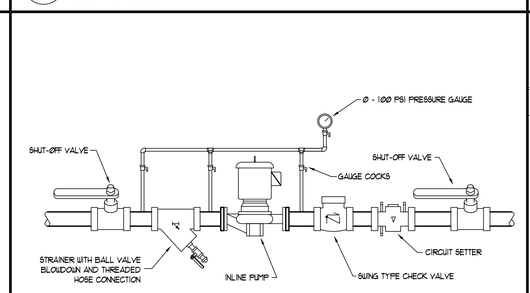
16 P6.1 UNIT HEATER CONNECTIONS (TYP)

SCALE: NOT TO SCALE



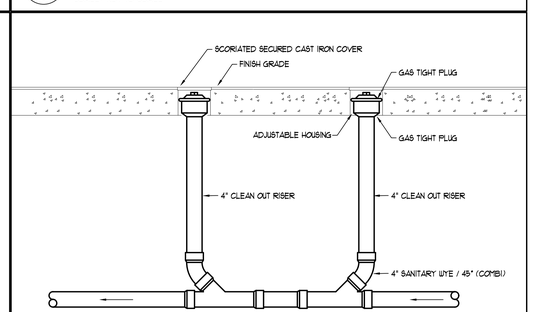
12 P6.1 PVC VERTICAL CONCENTRIC VENT DETAIL

SCALE: NOT TO SCALE



8 P6.1 TYPICAL IN-LINE PUMP PIPING DETAIL

SCALE: NOT TO SCALE



4 P6.1 TWO-WAY CLEANOUT

SCALE: NOT TO SCALE

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P: 801.596.0691
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HARMONS

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

MARK	DATE	DESCRIPTION

DATE: SEPTEMBER 11, 2026
AGENCY PROJECT NO:
DESIGN SEQUENCE PROJECT NO:
PVE PROJECT NO: 26076.00

DRAWN BY: BNS
CONTACT: BSPARKS@PVE-UT.COM
DWG TYPE:
ARCHITECTURAL PHASE: BID SET

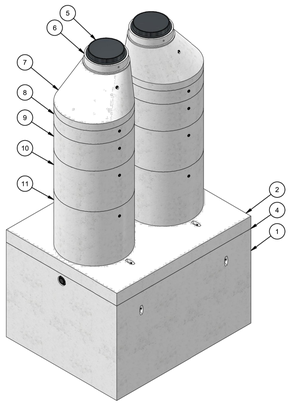
SHEET TITLE

PLUMBING DETAILS

P6.1

PVE
1040 N 2200 WEST SALT LAKE CITY UTAH
T: 801.359.3158 www.pve-ut.com

NOTES
■ IN COMPLIANCE WITH UNIFORM PLUMBING CODE (UPC), INTERNATIONAL PLUMBING CODE (IPC), ASTM INTERNATIONAL C1613
■ LOAD CONDITION 1: H-20 TRAFFIC WITH DRY SOIL CONDITIONS (WATER LEVEL BELOW TANK) AND 13 INCHES TO 14 FEET OF SOIL COVER.
■ LOAD CONDITION 2: H-20 TRAFFIC WITH WATER LEVEL 2 FEET BELOW GRADE AND 13 INCHES TO 9 FEET OF SOIL COVER
■ PROPERTIES SHOWN ARE FOR LOAD CONDITION 1.
■ MINIMUM ONE (1) ACCESS OPENING PER COMPARTMENT REQUIRED (AS SHOWN).
■ MUST BE INSTALLED PER "JENSEN PRECAST UNDERGROUND WASTEWATER PRECAST CONCRETE TANK INSTALLATION PROCEDURE" WHICH CAN BE FOUND AT https://www.jensenprecast.com/Tank-Installation-Procedure-d2106.pdf. THIS PROCEDURE ADDRESSES REQUIRED EXCAVATION, SITE PREPARATION, INSTALLATION, VENTILATION, AND WATER/VACCUM TESTING

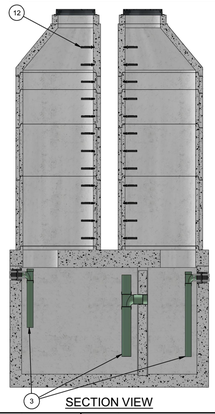


ISO LAYOUT

BILL OF MATERIALS

ITEM	QTY	PART NUMBER	DESCRIPTION	WEIGHT (LBS)
1	1	200049406	Tank MU 3000 Gallon Assembly Single Baffle HGW	39225
2	1	200019082	Tank MU 2000-3000 Gallon x 12 Slab Top 24"E, 24"E DB	14746
3	1	200049996	200024864 Plumbing - MU 3000 Gallon 4 Inch Gravity Grease Interceptor 24"E, 24"E MH Access Single Baffle DB	14
4	3	100013648	SEALANT JOINT BUTYL RUBBER ASTM C-990 AND M198 CS-102 1IN EQUIV X14.5FT PER ROLL	0
5	JOB SPECIFIC	100005850	CI RINGCOVER 24DIA B-5105-02/B-5105-R2 ASTM A48 CL35B CP O-RING GASKET OSI JENSEN/INTERCEPT	196
6	JOB SPECIFIC	100001525	Grade Ring D2432x6	180
7	JOB SPECIFIC	200023922	Manhole 4824 x 36 Eccentric	2212
8	JOB SPECIFIC	200042287	Manhole D4858x12 Barrel TU Step Holes	853
9	JOB SPECIFIC	200042289	Manhole D4858x24 Barrel TU Step Holes	1721
10	JOB SPECIFIC	200042290	Manhole D4858x36 Barrel TU Step Holes	2589
11	JOB SPECIFIC	200042291	Manhole D4858x48 Barrel TU Step Holes	3457
12	JOB SPECIFIC	100002561	LADDER STEP RUNG POLYMER MH ASTM-C-478 9-3/16 X 13IN PS2-PF-DF	11
13	JOB SPECIFIC	100012046	Plug Cover D2428x6 Slab Top	300

200049406.dwg



SECTION VIEW

CHANGE HISTORY

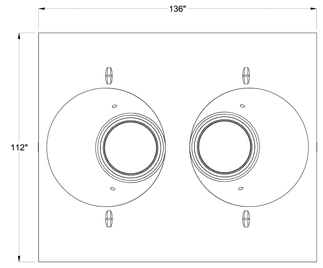
REV	DESCRIPTION	DATE	BY
A	DRAWING CREATED	7/30/2019	T.Larson
B	Base, Baffle, Plumbing Updated, Top Slab Thickness Changed	8/8/2019	T.Larson
C	TOP SLAB, BASE, & PLUMBING UPDATED	3/11/2021	T.Larson
D	ACCESSORIES UPDATED	7/26/2022	E.FINE
E	ACCESSORIES UPDATED	5/18/2023	SD

BURY DEPTH:	1.1' - 14.0' to Top		
WATER LEVEL:	Below Structure	WEIGHT:	76955.49 Lbs
DESIGN SPEC:	ACI 318,ASTM C890	LOADING SPEC:	A-16 (AASHTO HS20-44)
AGENCY:		AGENCY SPEC:	

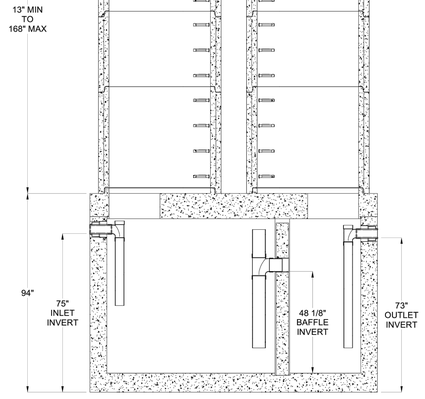
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DESCRIPTION:	Tank MU 3000 Gallon 4 Inch Layout Gravity Grease Interceptor 24"E, 24"E MH Access Single Baffle DB		REV: E-2
	LAYOUT REVIEW		SHEET: 1 OF 2
PART NUMBER:	200024864	DRAWN BY:	S. de Lange Boom
CREATED:	7/29/2019	MODIFIED:	5/24/2023



PLAN VIEW



CROSS SECTION

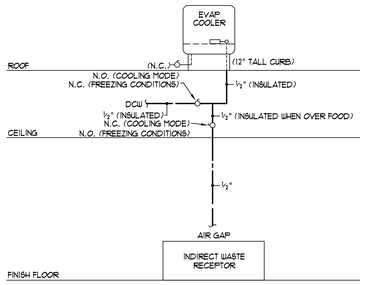
200024864.dwg

BURY DEPTH:	1.1' - 14.0' to Top		
WATER LEVEL:	Below Structure	WEIGHT:	76955.49 Lbs
DESIGN SPEC:	ACI 318,ASTM C890	LOADING SPEC:	A-16 (AASHTO HS20-44)
AGENCY:		AGENCY SPEC:	

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DESCRIPTION:	Tank MU 3000 Gallon 4 Inch Layout Gravity Grease Interceptor 24"E, 24"E MH Access Single Baffle DB		REV: E-2
	LAYOUT DRAWING		SHEET: 2 OF 2
PART NUMBER:	200024864	DRAWN BY:	S. de Lange Boom
CREATED:	7/29/2019	MODIFIED:	5/24/2023



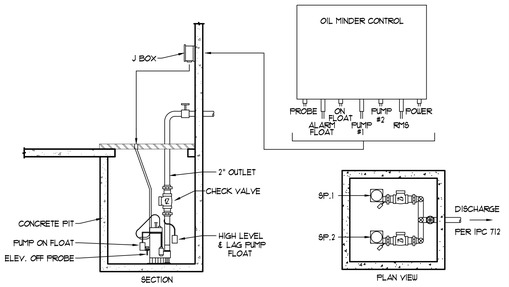
5 P6.2 DRAIN AND FILL FOR EVAPORATIVE COOLERS

SCALE: NOT TO SCALE

The Duplex Oil minder Control alternates each pump upon startup, assuring equal runtime and wear. In the event of heavy in flow, both pumps will operate together until the water level recedes and both pumps are deactivated. The high level / lag pump float will activate an alarm if the water condition continues after a preset time point is reached (set for 6 seconds, adjustable between 6 seconds and 10 minutes). An alarm and separate diagnostic LED lights are provided for oil alert, high water, and high amperage (pump overload) conditions. Remote monitoring relays are also provided for alert conditions. A silence and reset switch clears the alarm mode once a fault is addressed. In addition, there are LED lights to "power" the system and to indicate "pump 1" and "pump 2" activation. As with all Stancor Oil-Minder Systems, oil is contained in the sump while water is pumped on a fully automatic basis, assuring protection of the environment, personnel, and valuable equipment-even during an alarm condition.

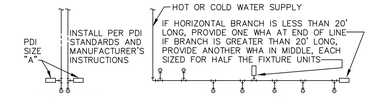
The Oil Minder System provides continuous, automatic operation without need for a separate oil-water separator. Local and remote audio and visual warning systems are provided separately for (a) hydraulic oil spill alert (b) high liquid condition, and (c) high amperage. Local alarms and a remote monitoring circuit are provided as standard features. An optional remote alarm is also available.

All pump and control cables are factory wired into a wall mountable junction box. Between the junction box and the main Oil-Minder control panel are multi-pin quick control connectors. This single cable, 8-pin system allows the electrical cable between the junction box and control panel to be run through conduit and interconnected up to 200 feet long, using a single "push and turn" motion. There is no need for field wiring and all connections are secure and water tight.



6 P6.2 ELEVATOR SUMP PUMP PIT DETAIL

NOT TO SCALE



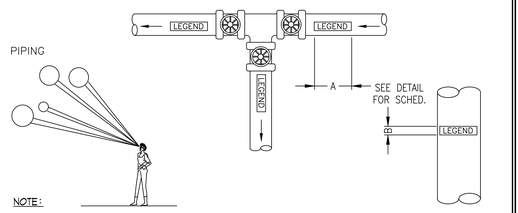
PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	154-330

FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3
SHOWER/BATHTUB	2	2

PC TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. SIZING CHARTS ARE BASED ON SIOUX CHIEF. USE SPECIFIC MANUFACTURERS SIZING CHARTS.

1 P6.2 WATER HAMMER ARRESTORS DETAIL

SCALE: NOT TO SCALE



NOTE:

IDENDIFICATION MARKERS OR STRIPS TO BE PLACED ON ALL EXPOSED COVERED AND UNCOVERED PIPES AT 50'-0" INTERVALS AND AT ALL VALVES, BRANCHES, CHANGE IN DIRECTION OF FLOW AND ON BOTH SIDES OF WALLS WHERE PIPES PASS THROUGH SAME. ARROWS OF SAME COLOR AS IDENTIFICATION MARKERS SHALL ALSO BE PLACED ON PIPES POINTING AWAY FROM MARKER INDICATION DIRECTION OF FLOW.

2 P6.2 PIPE IDENTIFICATION DETAIL

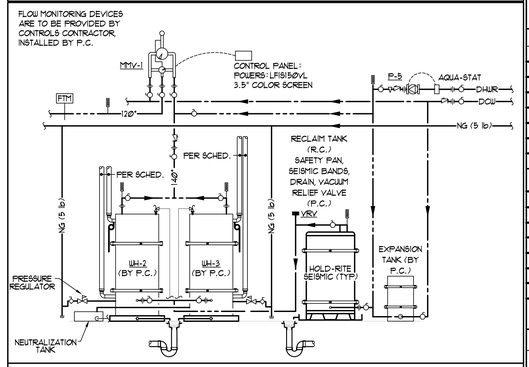
SCALE: NOT TO SCALE

OUTSIDE DIAMETER OF PIPE OR COVERING	MINIMUM LENGTH OF COLOR FIELD "A"	MINIMUM HEIGHT OF LETTERS "B"
1/2" TO 1-1/4"	8"	1/2"
1.5" TO 2"	8"	3/4"
2.5" TO 6"	12"	1.25"

PIPE SERVICE	BACKGROUND COLOR FIELD	LETTER COLOR
DOMESTIC COLD WATER	GREEN	WHITE
DOMESTIC HOT WATER	GREEN	WHITE
DOMESTIC HOT WATER RETURN	GREEN	WHITE
FILTERED WATER	GREEN	WHITE
REVERSE OSMOSIS	GREEN	WHITE
SOFT WATER	GREEN	WHITE
SANITARY DRAIN	ORANGE	BLACK
GREASE WASTE	BROWN	WHITE
STORM WATER	GREEN	WHITE
NON-POTABLE (IPC)	PURPLE	WHITE
NATURAL GAS	YELLOW	BLACK

3 P6.2 PIPE IDENTIFICATION SCHEDULE

SCALE: NOT TO SCALE



4 P6.2 GAS WATER HEATER PIPING DETAIL

SCALE: NOT TO SCALE

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HARMONS

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

MARK	DATE	DESCRIPTION

DATE:	SEPTEMBER 11, 2026
AGENCY PROJECT NO:	
DESIGN SEQUENCE PROJECT NO:	
PVE PROJECT NO:	26076.00
DRAWN BY:	BNS
CONTACT:	BSPARKS@PVE-UT.COM
DWG TYPE:	
ARCHITECTURAL PHASE:	BID SET

SHEET TITLE

PLUMBING DETAILS

P6.2

ELECTRICAL GENERAL NOTES

GENERAL NOTES:

1. THE ELECTRICAL SYSTEMS DEFINED BY THESE PLANS AND THE SPECIFICATIONS ARE TO BE CONSTRUCTED AS COMPLETE AND OPERABLE SYSTEMS AND SHALL BE BID WITH THIS INTENT. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL THE RELEVANT DOCUMENTS, AND BECOME FAMILIAR WITH THE TYPE OF CONSTRUCTION AND WORK TO BE ACCOMPLISHED. SHOULD ANY ERROR, OMISSION, OR CONFLICT EXIST IN EITHER THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE SUBMITTING THEIR BID PRICE SO A CHANGE CAN BE ISSUED IN A PRE-BID ADDENDUM. OTHERWISE, THE CONTRACTOR AND/OR EQUIPMENT SUPPLIERS SHALL SUPPLY THE PROPER MATERIALS AND LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS INCLUSIVE OF THE ORIGINAL BID. WHEN EACH ELECTRICAL SYSTEM IS COMPLETE, THE CONTRACTOR SHALL TEST AND CONFIRM ITS PROPER OPERATION. ANY INCOMPLETE SYSTEM SHALL BE MADE COMPLETE AND OPERABLE PRIOR TO PROJECT CLOSEOUT.
2. THE ARCHITECTURAL AND MECHANICAL PLANS ARE CONSIDERED A PART OF THE ELECTRICAL DOCUMENTS SO FAR AS ANY ELECTRICAL ITEMS THEY MAY CONTAIN. THE ELECTRICAL CONTRACTOR SHALL REFER TO AND COORDINATE WITH THEM. NO EXTRA COST SHALL BE ALLOWED FOR FAILURE TO COORDINATE THE CONTRACT DOCUMENTS WITH OTHER TRADES AND/OR IF EQUIPMENT DIMENSIONS ARE GREATER THAN SPECIFIED AND/OR DIMENSIONED ON THE PLANS.
3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT, MATERIALS, AND LABOR FOR THE CONNECTIONS OF ALL EQUIPMENT SHOWN ON THE PLANS - ARCHITECTURAL, MECHANICAL, ETC.
4. THIS PROJECT IS TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MOST RECENT LOCAL, STATE, AND NATIONAL CODES. IF AT ANY TIME DURING OR AFTER CONSTRUCTION SOMETHING IS FOUND TO BE INSTALLED IN VIOLATION OF THESE CODES LISTED ABOVE, IT SHALL BE CORRECTED BY THE CONTRACTOR.
5. WHERE A RACEWAY ENTERS A BUILDING OR STRUCTURE FROM THE OUTSIDE, IT SHALL BE SEALED AS PER NEC 225.27.
6. ALL ELECTRICAL EQUIPMENT THAT IS LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD OR FACTORY LABELED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS PER NEC 110.16. THE LABEL SHALL ALSO CONTAIN THE MAXIMUM AVAILABLE FAULT CURRENT AND THE DATE THE FAULT CURRENT CALCULATIONS WERE PERFORMED AS PER NEC 110.24.
7. ALL PANELBOARDS AND SWITCHBOARDS SHALL BE PERMANENTLY MARKED TO INDICATE EACH DEVICE OR EQUIPMENT WHERE THEIR POWER ORIGINATES AS PER NEC 408.4B.
8. ALL EQUIPMENT PROVIDED BY THE EC SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, AND BE PROPERLY INSTALLED FOR THE CONDITIONS AND SPACE THAT EQUIPMENT IS BEING INSTALLED WITHIN.
9. THE EC SHALL INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN. CONDUIT SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR. THE EC SHALL GROUND THE ELECTRICAL SYSTEM IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
10. CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMMATIC, NOT INDICATING THE ROUTING REQUIRED. THE EC SHALL ROUTE THE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION AND SHALL COORDINATE WITH DUCTWORK, PIPING, EQUIPMENT, BUILDING STRUCTURE, AND OTHER POTENTIAL OBSTRUCTIONS.
11. THE CONTRACTOR SHALL ALLOW THE MOVEMENT, BEFORE ROUGH-IN, OF ANY ELECTRICAL PANEL, DEVICE, LUMINAIRE, ETC. A DISTANCE OF 10 FEET WITHOUT REQUIRING ADDITIONAL COST TO THE PROJECT.
12. THE EC SHALL SECURE ALL CONDUIT TO THE STRUCTURE AS IT IS SET IN PLACE USING INDUSTRY STANDARD METHODS AND PRACTICES. TO ASSURE ALL DEVICES ARE RIGIDLY SET, THE ELECTRICAL CONTRACTOR SHALL SECURE ALL DEVICE BOXES WITH BRACKETS, HANGERS, ETC. DESIGNED FOR THE APPLICATION.
13. MINIMUM SIZE CONDUIT SHALL BE 3/4" UNO. CONDUIT INSTALLED WITHIN THE BUILDING IN DRY LOCATIONS WITHIN WALL, CEILINGS, OR EXPOSED NOT SUBJECT TO PHYSICAL DAMAGE SHALL BE EMT WITH STEEL SET SCREW FITTINGS. IN EXTERIOR LOCATIONS (EXCEPT FOR THE SERVICE ENTRANCE) THE CONDUIT SHALL BE EMT WITH COMPRESSION GLAND TYPE FITTINGS. UNDERGROUND CONDUIT SHALL BE PVC (SCH. 40) WITH GRC ELBOWS AND RISERS WRAPPED IN CORROSION RESISTANT MATERIALS WHERE IN DIRECT CONTACT WITH THE SOIL.
14. FLEXIBLE CONDUIT SHALL BE LIMITED TO CONNECTIONS TO LIGHT FIXTURES AND FINAL CONNECTIONS TO MOTORS OR OTHER EQUIPMENT SUBJECT TO VIBRATION. LENGTHS OF FLEXIBLE OR SEAL-TITE CONDUIT SHALL NOT BE GREATER THAN 72 INCHES.
15. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EMPTY CONDUITS WITH 200LB RATED NYLON PULL CORD.
16. BEFORE ANY ELECTRICAL CONDUIT, BOXES, ETC. ARE COVERED (FLOOR, CEILINGS, WALLS, ETC.), THEY SHALL BE APPROVED BY THE INSPECTING OFFICER (INSPECTOR).
17. WHERE WIRE SIZE IS NOT SHOWN ON THE DRAWINGS FOR 20A, 120VAC BRANCH CIRCUITS, THE CIRCUIT SHALL CONSIST OF 2#12 (CU,THHN) + 1#12 (CU,THHN) GND IN 3/4" EMT CONDUIT. THIS WIRE SIZE SHALL BE INCREASED TO #10 (CU,THHN) FOR BRANCH CIRCUITS WITH OVERALL LENGTHS EXCEEDING 125' TO ACCOMMODATE FOR VOLTAGE DROP. REFER TO EQUIPMENT SCHEDULES, FEEDER SCHEDULES, AND NOTES ON DRAWINGS FOR ALL OTHER BRANCH CIRCUIT AND FEEDER WIRE/CONDUIT SIZING.
18. CONDUCTORS SHALL BE COPPER, 600VAC RATED, TYPE THHN/THWN-2 UNO. CONDUCTORS UP TO #10AWG SHALL BE SOLID AND CONDUCTORS #8AWG OR LARGER SHALL BE STRANDED.
19. METAL CLAD CABLING MAY BE USED BETWEEN DEVICES SUCH AS LIGHTING, RECEPTACLES, SWITCHES, ETC. UNLESS OTHERWISE REQUIRED BY THE NEC. HOME RUNS SHALL BE INSTALLED IN CONDUIT. MC CABLE SHALL NOT BE INSTALLED EXPOSED.
20. EC SHALL CLEAN THE ENTIRE ELECTRICAL SYSTEM AFTER COMPLETION OF THE INSTALLATION. REMOVE ALL FINGER PRINTS, FOREIGN MATTER, PAINT, DIRT, GREASE, AND UN-NEEDED LABELS OR STICKERS FROM FIXTURES AND EQUIPMENT. REMOVE ALL RUBBISH AND DEBRIS ACCUMULATED DURING INSTALLATION FROM THE PREMISES.
21. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS FOR ALL DEVICES TO BE FLUSH MOUNTED AND CONDUIT/CABLING INSTALLED CONCEALED WITHIN WALLS/CEILINGS. IN AREAS WHERE CONDUIT MUST BE INSTALLED EXPOSED IT SHALL BE COORDINATED WITH THE ARCHITECT AND/OR ENGINEER. ALL EFFORTS SHALL BE MADE TO CONCEAL WIRING METHODS.
22. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE SEALED WITH FIRE STOPPING, IE. 3M BRAND CAULK, PUTTY, STRIP AND SHEET FORMS, DOW CORNING 3-6548 SILICONE RTV FOAM.
23. COORDINATE LOCATION OF WALL MOUNTED DEVICES WITH CABINETRY AND OTHER WALL OBSTRUCTIONS. COORDINATE CEILING MOUNTED DEVICES WITH CEILING OBSTRUCTIONS. ANY DEVICES THAT NEED TO BE RELOCATED MUST BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER PRIOR TO ROUGH-IN FOR NEW LOCATION.
24. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE PLACEMENT OF ALL DEVICES INSTALLED WITHIN THE CEILING SUCH AS LIGHTING, SPEAKERS, FIRE SPRINKLERS, SMOKE/HEAT DETECTORS, ETC. ANY EXISTING DEVICES THAT NEED TO BE RELOCATED IN ORDER TO ACCOMMODATE NEW CONSTRUCTION/REMODEL MUST BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER PRIOR TO ROUGH-IN FOR RESOLUTION AND FURTHER DIRECTION.

SITE NOTES:

25. ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE POWER COMPANY SERVICE TRANSFORMER BEFORE INSTALLING THE PAD, PRIMARY CONDUIT, AND SECONDARY SERVICE LATERAL. PROVIDE LABOR AND CONDUIT, CONDUCTORS, WIRE WAYS, TRANSFORMER LUGS, METER BASES, METER CONDUIT, CONDUCTORS, CONCRETE PAD/VAULT, ETC. AS NEEDED FOR A COMPLETE ELECTRIC SERVICE TO THIS FACILITY.
26. THE EC SHALL COORDINATE LOCATION OF TELEPHONE PEDESTAL, ROUTING/SIZE OF TELEPHONE SERVICE CONDUIT, AND THE MAIN TELEPHONE SERVICE BOARD REQUIREMENTS WITH THE TELEPHONE COMPANY PRIOR TO ROUGH-IN. INSTALL A 3/4" CONDUIT WITH (1) #6 BARE COPPER CONDUCTOR FROM TELEPHONE TERMINAL BOARD (TTB) TO THE MAIN BUILDING GROUNDING SYSTEM.
27. UNDERGROUND CONDUIT FOR SITE LIGHTING SHALL BE BURIED 24" B.F.G. AND SHALL HAVE ONE (1) #10 THHN GREEN GROUND CONDUCTOR TO GROUND ALL LUMINAIRES.
28. PRIOR TO TRENCHING IN ANY AREA, THE CONTRACTOR SHALL COORDINATE WITH COMMUNICATIONS/DATA, CABLE TV, GAS, AND WATER UTILITY PROVIDERS (BLUE STAKES), AND HAVE ALL UTILITIES IN THE AREA IDENTIFIED. IN ADDITION, THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A SUBCONTRACTOR SPECIALIZING IN THE LOCATION OF UNDERGROUND STRUCTURES TO IDENTIFY ANY OBSTACLES IN THE PATH OF TRENCHING PRIOR TO COMMENCING WORK. DAMAGE TO ANY UNDERGROUND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR.

LIGHTING NOTES:

29. ALL BATTERY POWERED OR CONTINUOUS BURN LUMINAIRES SHOWN ON THE PLANS, SUCH AS EXIT LIGHTS, NIGHT LIGHTS, OR EMERGENCY LIGHTS, SHALL BE CONNECTED TO THE UN-SWITCHED LEG OF THE LIGHTING CIRCUIT FEEDING THAT AREA.
30. LUMINAIRES INSTALLED IN THE MECHANICAL ROOM SHALL BE PLACED SO THAT ALL EQUIPMENT IS ADEQUATELY ILLUMINATED AFTER THE MECHANICAL EQUIPMENT IS IN PLACE.
31. ALL LUMINAIRES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AND NOT THE CEILING GRID OR OTHER NONSTRUCTURAL MEMBERS.
32. TO MAINTAIN CONSISTENT LIGHT QUALITY, FOR ANY ONE LAMP TYPE SUPPLIED, LAMPS SHALL BE OF THE SAME MANUFACTURER, SURFACE TEMPERATURE, COLOR RENDERING INDEX, LAMP EFFICACY, LUMEN OUTPUT, AND STARTING CHARACTERISTICS FOR ALL INSTALLED.
33. LIGHT FIXTURES INSTALLED IN DAMP OR WET LOCATIONS SHALL BE UL LISTED FOR INSTALLATION IN THE PROPER ENVIRONMENT. CARE SHOULD BE TAKEN TO ENSURE THAT DIFFUSERS AND LENSES ARE APPROPRIATE FOR THEIR INSTALLED USE AND PREMATURE DISCOLORATION WILL NOT RESULT DUE TO EXPOSURE TO UV LIGHT, CHEMICALS, OR OTHER CONDITIONS.
34. ELECTRICAL CONTRACTOR SHALL PROVIDE LIGHTING CONTROL SHOP DRAWINGS WITH ELECTRICAL SUBMITTAL FOR REVIEW.

POWER NOTES:

35. ELECTRICAL CONTRACTOR SHALL CONFIRM MINIMUM CODE (NEC) WORKING CLEARANCE BEFORE INSTALLING ANY ELECTRICAL PANELS OR CABINETS AND SHALL MOVE THE PANELS IF REJECTED BY AN INSPECTOR. IF CLEARANCE IS NOT POSSIBLE, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IN WRITING.
36. WIRING DEVICES SHALL HAVE A NYLON COVER PLATE. COLOR SHALL BE COORDINATED WITH ARCHITECT. EXTERIOR OUTLETS SHALL HAVE CAST COVERS WITH FLIP TYPE LIDS UNO.
37. EC SHALL COORDINATE WITH EQUIPMENT SUPPLIERS ON THE EXACT LOCATIONS OF ALL EQUIPMENT AND ELECTRICAL CONNECTIONS PRIOR TO ROUGH-IN. THE EC SHALL MAKE THE FINAL CONNECTION TO ALL EQUIPMENT UNLESS OTHERWISE DIRECTED BY THE EQUIPMENT SUPPLIER. OBTAIN FROM SUPPLIERS ALL WIRING DIAGRAMS FOR EQUIPMENT PRIOR TO ANY ROUGH-IN. TO ASSURE THAT PROPER CHARACTERISTICS ARE PROVIDED, ANY INCORRECT WIRING OR DEVICES INSTALLED BY THE EC WITHOUT THE WIRING DIAGRAM SHALL BE CORRECTED AT THE EC'S EXPENSE. PROVIDE COPIES OF WIRING DIAGRAMS WITHIN EACH PIECE OF EQUIPMENT AND ADDITIONAL COPIES WITH THE OPERATION AND MAINTENANCE MANUALS.
38. EC SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR TO PROVIDE CONDUIT AND DEVICE MOUNTING BOXES FOR THERMOSTATS AND OTHER MECHANICAL CONTROLS. REFER TO MECHANICAL DRAWINGS FOR THE LOCATION OF THERMOSTATS.
39. PROVIDE A 20AMP, 120VAC RECEPTACLE INSTALLED AT AN ACCESSIBLE LOCATION FOR THE SERVICING OF HEATING, AIR CONDITIONING, AND REFRIGERATION EQUIPMENT PER NEC 210.63. RECEPTACLE SHALL BE OF THE GROUND FAULT CIRCUIT INTERRUPTING TYPE, INSTALLED WITHIN A CAST METAL BOX, AND WITHIN 25' OF ALL REQUIRED EQUIPMENT.

DATA/TELECOM NOTES:

40. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN ONLY FOR THE TELECOM/CAT6 SYSTEMS. THIS SHALL CONSIST OF A FOUR SQUARE DEVICE MOUNTING BOX WITH CONDUIT TO ABOVE ACCESSIBLE CEILING SPACE OR TO THE CEILING SPACE ABOVE IF OPEN. CABLING, JACKS, FACEPLATES, TESTING AND TERMINATIONS SHALL BE PROVIDED AND INSTALLED BY OTHERS.

ROOF NOTES:

41. ELECTRICAL CONTRACTOR TO INSTALL A ROOF JACK (BOOT) FOR ALL CONDUIT PENETRATIONS THROUGH THE ROOF. ALL ROOF PENETRATION SEALS SHALL BE IN ACCORDANCE WITH THE ROOF WARRANTY AND BE COMPLETELY SEALED WITH ROOF ADHESIVE. UTILIZE PROPER CLAMPING METHODS TO SEAL BOOT AROUND CONDUIT.

FIRE ALARM NOTES:

42. PROVIDE AND INSTALL AN ADDRESSABLE FIRE ALARM SYSTEM TO MEET THE REQUIREMENTS OF CURRENT NFPA 72, IBC, IFC, AND OTHER PERTINENT LOCAL/STATE CODES. THE SYSTEM SHALL MONITOR FLOW/TAMPER SWITCHES ON THE FIRE SPRINKLER RISER, DUCT MOUNTED SMOKE DETECTORS IN ALL AIR HANDLING EQUIPMENT OVER 2000CFM, PULL STATIONS AT EGRESS DOORS, HEAT/SMOKE DETECTORS AS SHOWN ON THE CONSTRUCTION DOCUMENTS, AND PROVIDE ELEVATOR RECALL/SHUNT TRIP WHERE APPLICABLE. THE FIRE ALARM CONTROL PANEL SHALL PROVIDE AUDIO/VISUAL ANNUNCIATION THAT THE BUILDING FIRE ALARM SYSTEM HAS ACTIVATED IN ALL COMMON SPACES AND AS OTHERWISE REQUIRED/SHOWN ON THE DRAWINGS. THE EC SHALL GENERATE FIRE ALARM SHOP DRAWINGS AND SUBMIT THEM TO THE FIRE MARSHAL AND THE ENGINEER FOR APPROVAL. SUBMISSION REQUIREMENTS SHALL CONFORM TO NFPA 72 AND THE FIRE MARSHAL. NO FIRE ALARM WORK SHALL COMMENCE IN THE BUILDING PRIOR TO RECEIPT OF APPROVED FIRE ALARM SHOP DRAWINGS FROM THE FIRE MARSHAL.
43. PLENUM RATED FIRE ALARM WIRE MAY BE RUN EXPOSED ABOVE ACCESSIBLE CEILING SPACES AND WHERE CONCEALED IN WALLS. ALL FIRE ALARM WIRING MUST BE IN 3/4" EMT CONDUIT WHERE IT IS NOT POSSIBLE TO CONCEAL IN WALLS OR CEILING SPACES.
44. SIGNAL LINE CIRCUIT IS TO BE CLASS A, NAC CIRCUIT IS TO BE CLASS B. T-TAPPING OF SLC CIRCUIT IS NOT PERMITTED.
45. FIRE ALARM SYSTEM TO CONFORM TO CURRENT NFPA 72, IBC, AND IFC.
46. INCOMING AND OUTGOING SLC WIRES ARE TO MAINTAIN A 5' SEPARATION WHERE RUNS ARE LONGER THAN 10'.
47. IN ALL AREAS WHERE MORE THAN ONE FIRE ALARM STROBE IS IN SIGHT OF EACH OTHER, THEY ARE TO BE SYNCHRONIZED TO FLASH AT THE SAME RATE AND TIME. PROVIDE A SYNCHRONIZATION MODULE.
48. IN SMALLER AREAS WHERE 15CD HORN/STROBES ARE USED, THE dB LEVEL OF THE HORN SHALL BE TURNED DOWN TO 15dB ABOVE AMBIENT NOISE LEVEL. SEE NFPA 72 TABLE A.7.4.2 FOR AVERAGE AMBIENT SOUND LEVELS.
49. FIRE ALARM SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. FIRE ALARM SHOP DRAWINGS SHALL BE SIGNED/SEALED BY A PROFESSIONAL FIRE PROTECTION ENGINEER REGISTERED IN THE STATE OF UTAH.
50. BRANCH CIRCUIT BREAKERS PROVIDING POWER TO FIRE ALARM SYSTEMS SHALL BE IDENTIFIED IN POWER PANELS WITH RED LABELS STATING "FIRE ALARM CIRCUIT" AS REQUIRED BY NEC 760.41(B).
51. ALL EXISTING FIRE ALARM DEVICES ARE TO BE LEFT IN PLACE AND FUNCTIONAL UNTIL THE NEW SYSTEM IS WORKING PROPERLY. IN THE CASE WHERE AN EXISTING FIRE ALARM DEVICE IS IN DIRECT CONFLICT WITH A NEW DEVICE, THE EXISTING DEVICE IS TO BE LEFT IN PLACE AND FUNCTIONAL UNTIL FINAL TEST WHEN IT CAN BE REMOVED AND THE NEW DEVICE CAN BE PLACED IN ITS LOCATION. ONCE THE NEW SYSTEM IS OPERATING PROPERLY, ALL EXISTING FIRE ALARM DEVICES ARE TO BE REMOVED AND HOLES PATCHED.
52. A RADIO COVERAGE TEST SHALL BE PERFORMED AFTER THE ROUGH-IN STAGE TO VERIFY THAT RADIO COVERAGE LEVELS ARE ADEQUATE FOR EMERGENCY RESPONDERS. DOCUMENTATION SHALL BE PROVIDED TO THE FIRE MARSHALL SHOWING RADIO COVERAGE LEVELS ARE EITHER ADEQUATE, OR AN APPROVED EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (ERRCS) SHALL BE PROVIDED.

ELECTRICAL SYMBOL SCHEDULE

SYMBOL	DESCRIPTION	MOUNTING	NOTES
	LIGHT FIXTURE - SURFACE OR RECESSED	SEE DRAWINGS	1
	EMERGENCY LIGHT FIXTURE - SURFACE OR RECESSED	SEE DRAWINGS	1, 2
	LIGHT FIXTURE - OPEN STRIP	SEE DRAWINGS	1
	EMERGENCY LIGHT FIXTURE - OPEN STRIP	SEE DRAWINGS	1, 2
	LIGHT FIXTURE - WALL MOUNTED	WALL	1
	EMERGENCY LIGHT FIXTURE - WALL MOUNTED	WALL	1, 2
	LIGHT FIXTURE - DOWNLIGHT	CEILING	1
	EMERGENCY LIGHT FIXTURE - DOWNLIGHT	CEILING	1, 2
	LIGHT FIXTURE - WALL WASH DOWNLIGHT	CEILING	1
	LIGHT FIXTURE - CEILING MOUNTED	CEILING	1
	LIGHT FIXTURE - PENDANT/CHANDELIER	CEILING	1
	LIGHT FIXTURE - WALL BRACKET	WALL	1
	EMERGENCY LIGHT FIXTURE - WALL BRACKET	WALL	1, 2
	LIGHT TRACK WITH FIXTURES	SURFACE	1
	EXIT FIXTURE - WALL MOUNT	WALL	1, 2, 3
	EXIT FIXTURE - CEILING MOUNT	CEILING	1, 2, 3
	EXIT FIXTURE W/ EMERGENCY HEADS - WALL MOUNT	WALL	1, 2, 3
	EXIT FIXTURE W/ EMERGENCY HEADS - CEILING MOUNT	CEILING	1, 2, 3
EM	DUAL HEAD EMERGENCY LIGHT FIXTURE	WALL	1, 2
	AREA LIGHT FIXTURE - POLE MOUNTED	POLE	1
	OCCUPANCY SENSOR - CEILING MOUNT	CEILING	1
PC	PHOTO-ELECTRIC CELL WITH RELAY	SURFACE	1
PP	LIGHTING RELAY/POWER PACK	SURFACE	1
TC	TIME CLOCK - 7 DAY	5' - 0"	
$OS	WALL OCCUPANCY SENSOR SWITCH	4' - 0"	
$	SINGLE POLE SWITCH	4' - 0"	
$2	DOUBLE POLE SWITCH	4' - 0"	
$3	THREE WAY SWITCH	4' - 0"	
$4	FOUR WAY SWITCH	4' - 0"	
$D	DIMMER SWITCH	4' - 0"	
$LV	LOW VOLTAGE SWITCH	4' - 0"	
$TH	THERMAL OVERLOAD SWITCH	4' - 0" UNO	
$P	PILOT LIGHT SWITCH	4' - 0"	
	DUPLEX OUTLET, 20A, 120VAC	1' - 6" UNO	
	DUPLEX OUTLET, 20A, 120VAC - GFCI	1' - 6" UNO	
	DUPLEX OUTLET - SPLIT WIRED	1' - 6" UNO	
	DUPLEX OUTLET - ISOLATED GROUND	1' - 6" UNO	
	DUPLEX OUTLET WITH USB PORTS	1' - 6" UNO	
OS	DUPLEX OUTLET - OCCUPANCY SENSOR CONTROLLED	1' - 6" UNO	
	DUPLEX OUTLET, 20A, 120VAC - CEILING	CEILING	
	DUPLEX OUTLET, 20A, 120VAC - FLOOR	FLOOR	
	FOURPLEX OUTLET, 20A, 120VAC	1' - 6" UNO	
	FOURPLEX OUTLET, 20A, 120VAC - GFCI	1' - 6" UNO	
	FOURPLEX OUTLET - ISOLATED GROUND	1' - 6" UNO	
	FOURPLEX OUTLET, 20A, 120VAC - CEILING	CEILING	
	FOURPLEX OUTLET, 20A, 120VAC - FLOOR	FLOOR	
	APPLIANCE OUTLET - 208/240V SINGLE PHASE	18" OR 48"	
	APPLIANCE OUTLET - 208/480V 3-PHASE	18" OR 48"	
	DATA OUTLET	1' - 6" UNO	
	TELEPHONE OUTLET	1' - 6" UNO	
	DUAL TELEPHONE/DATA OUTLET	1' - 6" UNO	
	DATA OUTLET - FLOOR	FLOOR	
	DUAL TELEPHONE/DATA OUTLET - FLOOR	FLOOR	
	CEILING DATA OUTLET/ WIRELESS ACCESS POINT	CEILING	
	CABLE TELEVISION OUTLET	1' - 6" UNO	
	JUNCTION BOX	SURFACE	
	WALL JUNCTION BOX	1' - 6" UNO	
	FLOOR JUNCTION BOX	FLOOR	
	DISCONNECT SWITCH - NON-FUSED	5' - 0" UNO	4
F	DISCONNECT SWITCH - FUSED	5' - 0" UNO	4
	DISCONNECT SWITCH - SHUNT TRIP	5' - 0" UNO	4
	COMBINATION MAGNETIC STARTER/DISCONNECT	5' - 0" UNO	
	MOTOR STARTER	5' - 0" UNO	
	CONTACTOR	5' - 0" UNO	
	MOTOR	SURFACE	
	METER - PLAN VIEW	WALL	
	PUSH BUTTON SWITCH	4' - 0"	
	EMERGENCY POWER SHUTOFF SWITCH	4' - 0"	
	PANELBOARD - SURFACE MOUNTED	6' - 6" TO TOP	
	PANELBOARD - RECESSED	6' - 6" TO TOP	
	TRANSFORMER - PLAN VIEW	PAD/FLOOR	
	TELEPHONE TERMINAL BOARD	WALL	

	FIRE ALARM HORN	7' - 6"	
	FIRE ALARM STROBE	7' - 6"	
	FIRE ALARM HORN STROBE	7' - 6"	
	FIRE ALARM GONG	7' - 6"	
F	FIRE ALARM DUAL ACTION MANUAL PULL STATION	4' - 0"	
AR	FIRE ALARM ADDRESSABLE CONTROL RELAY		
MM	FIRE ALARM MONITOR MODULE		
	FIRE ALARM CONTROL PANEL	6' - 6" TO TOP	
	FIRE ALARM ANNUNCIATOR PANEL	4' - 0"	
	PHOTOELECTRIC SMOKE DETECTOR	SURFACE	
	RATE OF RISE/HEAT DETECTOR	SURFACE	
CO	CARBON MONOXIDE DETECTOR	SURFACE	
	DUCT SMOKE DETECTOR	DUCT	6
	FIRE SMOKE DAMPER		
T	FIRE RISER TAMPER SWITCH		
F	FIRE RISER FLOW SWITCH		
	ELECTROMAGNETIC DOOR HOLDER	2' - 0"	
CR	SECURITY CARD READER	4' - 0"	
KP	SECURITY KEYPAD	4' - 0"	
ES	ELECTRIC STRIKE		
	SECURITY CCTV CAMERA		
S	SPEAKER - CEILING		
S	SPEAKER - WALL		
M	MICROPHONE CONNECTION		
$VC	VOLUME CONTROL SWITCH	4' - 0"	

	CIRCUIT BREAKER		METER - ONE-LINE
	MLO PANEL - ONE-LINE		TRANSFORMER - ONE-LINE
	MCB PANEL - ONE-LINE		PAD MOUNT XFMR - ONE-LINE
	AUTOMATIC TRANSFER SWITCH		GROUND SLEEVE - ONE-LINE
	CT ENCLOSURE - ONE-LINE	XXXA XXXA LPNR	FUSED DISCONNECT - ONE-LINE
	CURRENT TRANSFORMER		FUSED SWITCH
			GROUND
	OH RISER	XXX	CABLE/WIRE SIZE TAG
X	KEYED NOTE TAG		DETAIL/VIEW NUMBER
XX / X	MECH/ELEC. EQUIPMENT TAG	X / EXXX	DETAIL/VIEW REFERENCE TAG
X	OTHER EQUIPMENT TAG		SHEET NUMBER
	WIRING / CONDUIT		UNDERGROUND/FLOOR WIRING
	CONDUIT TURNED UP		CONDUIT TURNED DOWN
	CIRCUIT HOME RUN TO PANEL: # OF ARROWHEADS INDICATE # OF CIRCUITS (SEPARATE NEUTRAL PER CIRCUIT). BOTH EX. INCLUDE AN EQUIP. GROUND.		

NOTES

1. SEE LIGHT FIXTURE SCHEDULE FOR TYPE, MOUNTING, AND OTHER SPECIFICS.
2. CONNECT EMERGENCY AND/OR EXIT LIGHTS TO THE UNSWITCHED SIDE OF THE AREA LIGHTING BRANCH CIRCUIT.
3. ARROW DENOTES EXIT DIRECTION.
4. USE HEAVY DUTY FOR 480 VOLT.
5. MOUNT SWITCH AT DOOR JAM PER MANUFACTURER'S INSTRUCTIONS.
6. PROVIDE UL LISTED DEVICE TO BE USED WITH THE FIRE ALARM PANEL/SYSTEM OR PROVIDE A MONITOR MODULE TO CONNECT INTO FIRE ALARM SYSTEM.
7. PROVIDE RACEWAY WITH OUTLETS 12" ON CENTER UNO.

ABBREVIATIONS

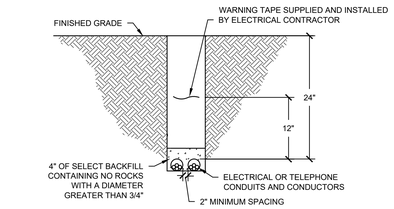
AFCI - ARC FAULT CKT INTERRUPTER
AFF - ABOVE FINISHED FLOOR
AFG - ABOVE FINISHED GRADE
AIC - AMPS INTERRUPTING CAPACITY
AL - ALUMINUM
ATS - AUTOMATIC TRANSFER SWITCH
BC - BARE COPPER
BFC - BELOW FINISHED CEILING
BFG - BELOW FINISHED GRADE
CKT - CIRCUIT
CND. OR C. - CONDUIT
CLG - INSTALLED IN CEILING
C.R. - CORD REEL
CT - CURRENT TRANSDUCER
CU - COPPER
(E) - EXISTING TO REMAIN
EC - ELECTRICAL CONTRACTOR
EM - EMERGENCY
(F) - FUTURE
FACP - FIRE ALARM CONTROL PANEL
FLA - FULL LOAD AMPS
FVNR - FULL VOLTAGE NON REVERSING
GC - GENERAL CONTRACTOR
GFCI - GROUND FAULT CKT INTERRUPTER
GND - GROUND
HP - HORSEPOWER
IG - ISOLATED GROUND
KW - KILOWATTS
LCP - LIGHTING CONTROL PANEL
LTG - LIGHTING
LV - LOW VOLTAGE
MC - MECHANICAL CONTRACTOR
MCA - MINIMUM CIRCUIT AMPS
MCB - MAIN CIRCUIT BREAKER
MCC - MOTOR CONTROL CENTER
MDP - MAIN DISTRIBUTION PANEL
MLO - MAIN LUGS ONLY
MOCP - MAX. OVERCURRENT PROTECTION
(N) - NEW
NIC - NOT IN CONTRACT
NEC - NATIONAL ELECTRICAL CODE
NFPA - NATIONAL FIRE PROT. ASSN.
NL - NIGHT LIGHT
NR - NOT REQUIRED
NTS - NOT TO SCALE
PC - PLUMBING CONTRACTOR
PH - PHASE
PNL - PANEL
POC - POINT OF CONNECTION
POS - POINT OF SALE
(R) - RELOCATED
REC - RECEPTACLES
RMC - RIGID METAL CONDUIT
SCA - SHORT CIRCUIT AMPERES
SES - SERVICE ENTRANCE SWITCHGEAR
SPD - SURGE PROTECTIVE DEVICE
TL - TWIST LOCK
TTB - TELEPHONE TERMINAL BOARD
TR - TAMPER RESISTANT
TYP - TYPICAL
UNO - UNLESS NOTED OTHERWISE
VA - VOLT/AMPS
VIF - VERIFY IN FIELD
VR - VANDAL RESISTANT
WP - WEATHERPROOF/NEMA 3R
WU - FURNISHED WITH UNIT
XFMR - TRANSFORMER

ELECTRICAL SHEET INDEX

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E103	BAKERY LIGHTING PLAN
E104	MEAT PREP & E-SHOP PREP LIGHTING PLAN
E105	PHARMACY LIGHTING PLAN
E106	MEZZANINE LIGHTING PLAN
E201	OVERALL POWER PLAN
E202	DELI POWER PLAN
E203	BAKERY POWER PLAN
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E205	CHECKOUT AND PHARMACY POWER PLAN
E206	MEZZANINE POWER PLAN
E207	ROOF POWER PLAN
E301	MAIN FLOOR SYSTEM PLAN
E302	MEZZANINE SYSTEM PLAN
E501	ELECTRICAL DETAILS
E601	ELECTRICAL SCHEDULES
E602	ELECTRICAL SCHEDULES
E603	ELECTRICAL SCHEDULES
E701	ONE LINE DIAGRAM

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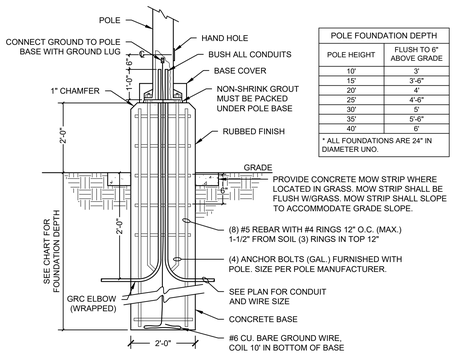
REVISIONS



NOTES:
1. ELECTRICAL SERVICE CONDUIT AND CONDUCTORS ARE TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. BURIAL DEPTH SHALL BE PER NEC TABLE 300.5
2. TELEPHONE SERVICE CONDUIT SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. TELEPHONE SERVICE CABLING SHALL BE PROVIDED BY THE LOCAL TELEPHONE COMPANY. COORDINATE WITH LOCAL TELEPHONE COMPANY FOR ANY SPECIFIC REQUIREMENTS.
3. THE QUANTITY/SIZE OF CONDUITS AND/OR CONDUCTORS SHALL BE AS CALLED OUT ON THE ELECTRICAL DRAWINGS. COORDINATE WITH THE ELECTRICAL ENGINEER.
4. WHERE TELECOMMUNICATIONS AND ELECTRICAL SHARE THE SAME TRENCH, A MINIMUM 12" CLEARANCE SHALL BE MAINTAINED BETWEEN CONDUITS.

2 / E001 UNDERGROUND CONDUIT DETAIL

NO SCALE

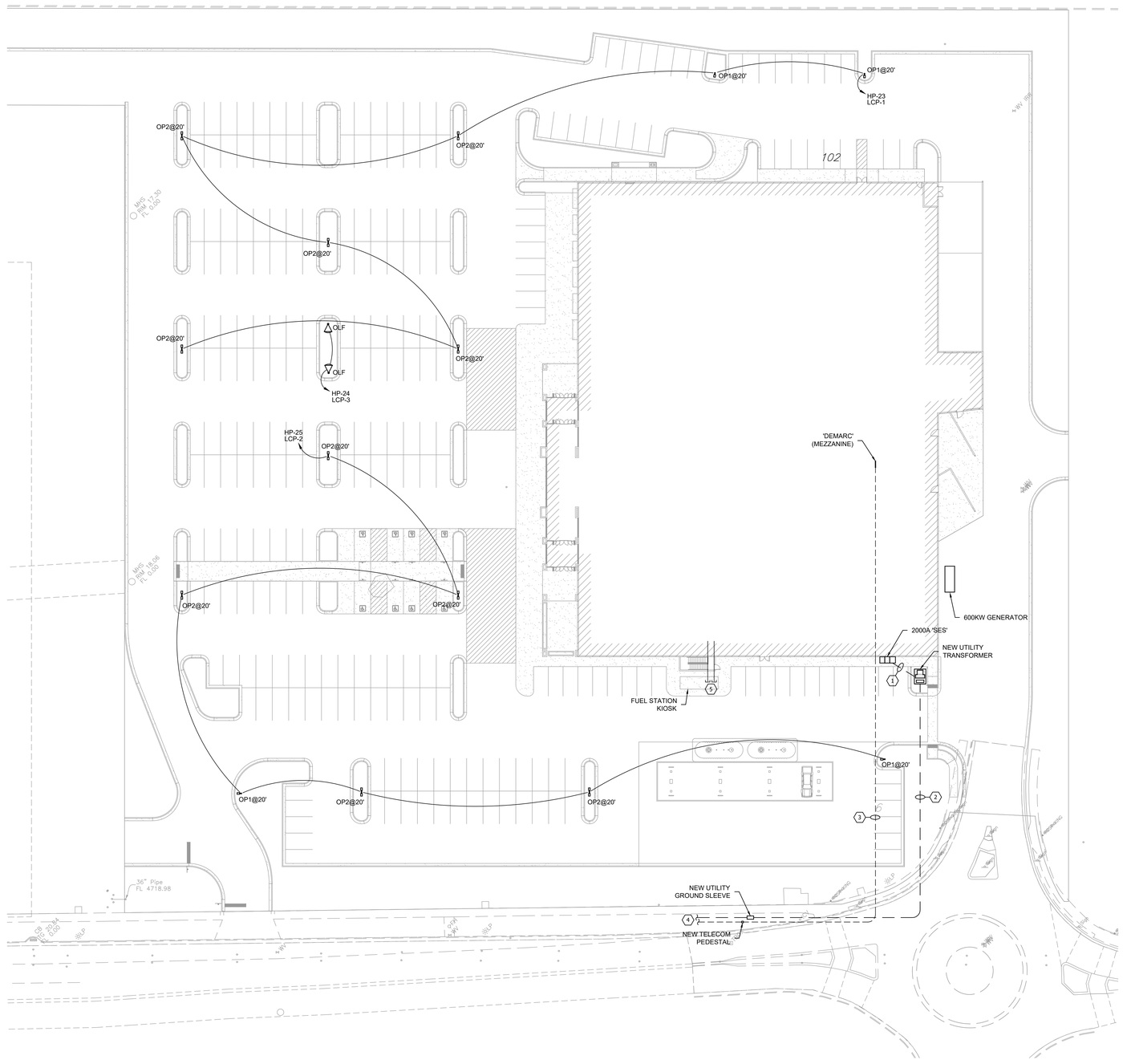


POLE FOUNDATION DEPTH	
POLE HEIGHT	FLUSH TO 6" ABOVE GRADE
10'	3'
15'	3'-6"
20'	4'
25'	4'-6"
30'	5'
35'	5'-6"
40'	6'

* ALL FOUNDATIONS ARE 24" IN DIAMETER UNO.

3 / E001 LIGHT POLE BASE DETAIL

NO SCALE



1 / E001 ELECTRICAL SITE PLAN

SCALE: 1" = 30'-0"

KEYED NOTES

1. PROVIDE (7) 4"C FROM THE UTILITY TRANSFORMER VAULT TO SERVICE SWITCHGEAR 'SES'. COORDINATE WITH SPANISH FORK POWER AND LIGHT PRIOR TO CONSTRUCTION.
2. PROVIDE (1) 4"C WITH 2500LB PULL CORD FOR PRIMARY UTILITY POWER. THE CONDUIT SHALL BE BURIED MINIMUM 48" BELOW GRADE. PROVIDE MAGNETIC MARKING TAPE BURIED 12" DIRECTLY ABOVE CONDUIT COORDINATE ALL REQUIREMENTS WITH SPANISH FORK POWER PRIOR TO CONSTRUCTION.
3. PROVIDE (2) 4"C WITH PULL STRING STUBBED INTO BUILDING TELEPHONE ROOM AT 6" AFF DIRECTLY BELOW BUILDING TTB. CONDUITS SHALL BE BURIED MINIMUM 36" BELOW GRADE. USE 48" SWEEP FIBERGLASS ELBOWS.
4. COORDINATE CONNECTION TO UTILITIES WITH LOCAL UTILITY PROVIDER PRIOR TO CONSTRUCTION.
5. FUEL STATION KIOSK. PROVIDE (1) 2"C FROM THE IT ROOM FOR DATA AND (1) 2.5"C FROM 'SDP' FOR KIOSK POWER CONNECTIONS. COORDINATE EXACT CONDUIT STUB LOCATIONS WITH THE FUEL STATION TEAM. CONDUIT AND FEEDERS TO BE PROVIDED BY EC. KIOSK PANEL TO BE PROVIDED BY OTHERS. FINAL TERMINATIONS BY THE EC.

GENERAL NOTES

A. ALL SITE ELECTRICAL SHALL BE BURIED IN ACCORDANCE WITH NEC TABLE 300.5 UNLESS OTHERWISE NOTED. ALL UTILITY POWER CONDUITS SHALL BE BURIED AT 48" BELOW GRADE. ALL UTILITY TELECOMMUNICATION CONDUITS SHALL BE BURIED AT 36" BELOW GRADE.
B. ALL ELBOWS TO BE GRC SWEEP ELBOWS UNLESS OTHERWISE NOTED.
C. ALL SITE ELECTRICAL SHALL BE #10 AWG CU CONDUCTORS UNLESS OTHERWISE NOTED. EC TO VERIFY VOLTAGE DROP ON ALL RUNS BASED ON ACTUAL CONDUIT LENGTHS. CONDUCTORS SHALL BE UP-SIZED ACCORDINGLY IN ACCORDANCE WITH NEC 210.19(A) INFORMATIONAL NOTE #3 AND NEC 215.1(A)(b) INFORMATIONAL NOTE #2.

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-	08/28/26	PERMIT SET

PROFESSIONAL ENGINEER
No. 705562-2202
ERIC D. SMITH
08/28/26
STATE OF UTAH

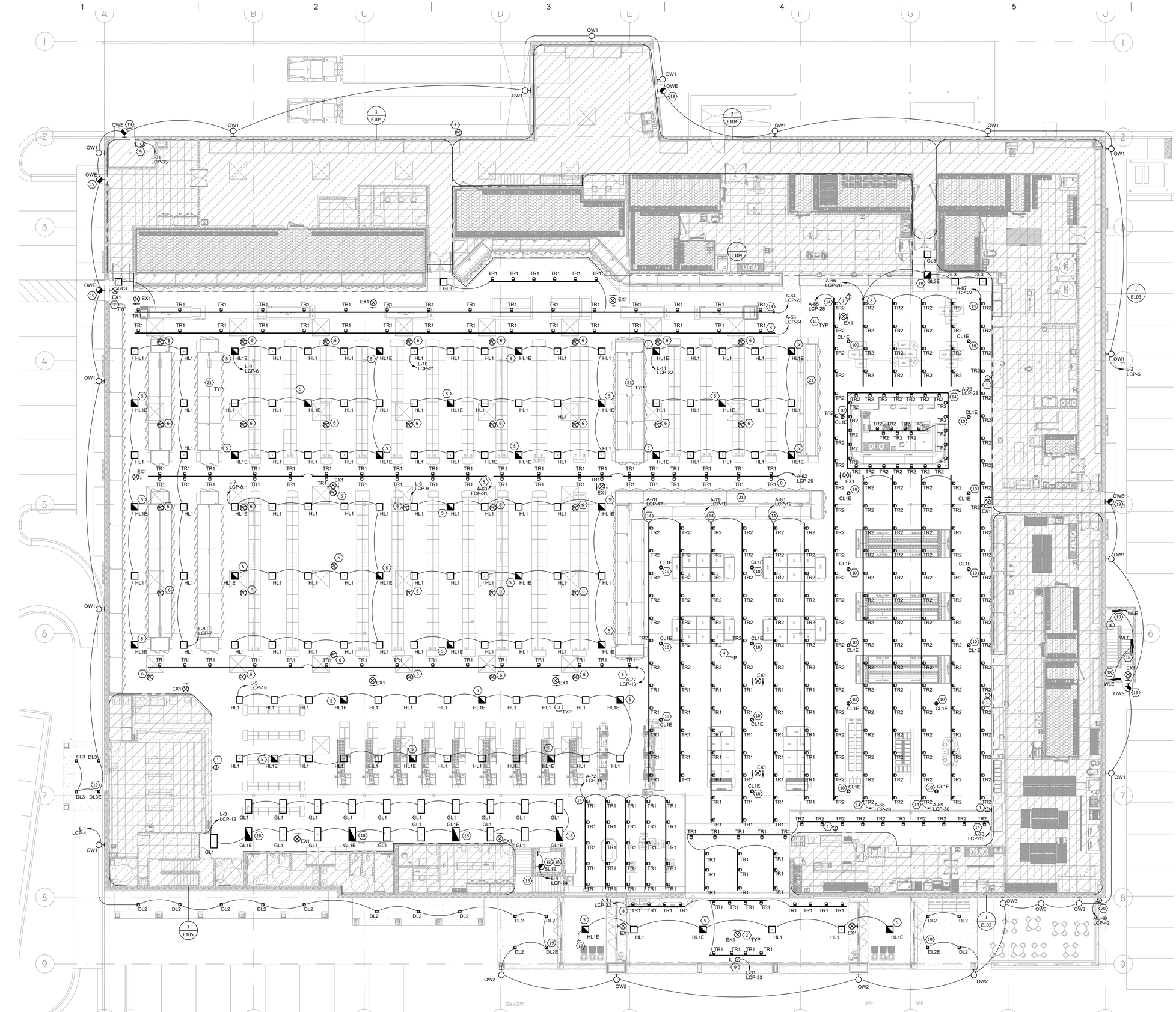
HARMONS SPANISH FORK

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

PROJECT #:	26107
SHEET SIZE:	30"x42"
DATE:	8/28/26
DRAWN BY:	NF,MS,ZF
CHECKED BY:	ES
SHEET TITLE:	

ELECTRICAL SITE PLAN

E001



1 E101 OPTION 1 SALES FLOOR LIGHTING PLAN

SCALE: 3/32" = 1'-0"

KEYED NOTES

1. PROVIDE A JUNCTION BOX BEHIND THE VALENCE WALL FOR VALENCE SIGNAGE POWER. THE JUNCTION BOX SHALL BE MOUNTED WHERE ACCESSIBLE FROM SOFFIT CEILING. CIRCUIT VALENCE SIGNAGE TO BRANCH CIRCUIT A-73, LCP-11. COORDINATE SIGNAGE LOCATION WITH THE SIGN VENDOR.
2. EXIT SIGNS TO BE CIRCUITED TO THE NEAREST EH PANEL UNSWITCHED CIRCUIT. SUSPEND CEILING HUNG EXIT SIGNS TO 11'-0" AFF.
3. HIGH BAY LIGHT FIXTURES SHALL BE MOUNTED AT 18'-0" AFF.
4. TRACK LIGHT FIXTURES SHALL BE MOUNTED AT 12'-0" AFF.
5. EMERGENCY LIGHT FIXTURE TO BE CONNECTED TO THE EMERGENCY GENERATOR BACKED PANEL 'EH' (EH-1). PROVIDE A GENERATOR TRANSFER DEVICE AT FIXTURE LOCATION TO ALLOW THE FIXTURE TO BE CONTROLLED WITH THE LOCAL NON-EMERGENCY LIGHTING BRANCH CIRCUIT.
6. PROVIDE DAYLIGHT HARVESTING CONTROLS FOR LIGHT FIXTURES IN IMMEDIATE AREA AROUND THE SKYLIGHT. REFER TO THE LIGHTING CONTROL SEQUENCE OF OPERATIONS FOR MORE INFORMATION.
7. PROVIDE A INTERMATIC K4221C (OR EQUAL) PHOTOCELL DEVICE FOR EXTERIOR LIGHTING CONTROL. CONNECT PHOTOCELL TO THE CPC CONTROLLER. REFER TO THE LIGHTING CONTROL SEQUENCE OF OPERATIONS FOR MORE INFORMATION.
8. PROVIDE AN 8 AMP CONTINUOUS DUTY CURRENT LIMITING DEVICE BUILD INTO END FEED OF TRACK LIGHTING. TRACK LIGHTING SHALL BE WIRED IN WHICH ONLY ONE CURRENT LIMITING DEVICE IS NEEDED PER HOMERUN.
9. PROVIDE A JUNCTION BOX AND DISCONNECT SWITCH MOUNTED IN AN ACCESSIBLE CEILING SPACE ON THE INTERIOR SIDE OF THE EXTERIOR WALL FOR STOREFRONT SIGNAGE. COORDINATE FURTHER REQUIREMENTS WITH THE SIGN VENDOR PRIOR TO CONSTRUCTION.
10. EMERGENCY FIXTURE TO BE CONNECTED TO THE EMERGENCY GENERATOR BACKED PANEL 'EH' (EH-3). FIXTURES SHALL REMAIN OFF DURING NORMAL BUSINESS HOURS AND SHALL ONLY TURN ON DURING EMERGENCY EGRESS OPERATION.
11. ALL SALES FLOOR LIGHTING BRANCH CIRCUITS SHALL BE ROUTED TO THE BUILDING LIGHTING CONTROL PANEL FOR SCHEDULED TIME CONTROLS.
12. 4' STRIP LIGHT TO BE MOUNTED VERTICALLY IN ELEVATOR SHAFT. COORDINATE EXACT MOUNTING LOCATION WITH THE ELEVATOR INSTALLER. INSTALL FIXTURE WHERE NOT SUBJECT TO PHYSICAL DAMAGE.
13. SEE STAIRWAY LIGHTING ON SHEET 1/E106.
14. PROVIDE A 12 AMP CONTINUOUS DUTY CURRENT LIMITING DEVICE BUILD INTO END FEED OF TRACK LIGHTING. TRACK LIGHTING SHALL BE WIRED IN WHICH ONLY ONE CURRENT LIMITING DEVICE IS NEEDED PER HOMERUN.
15. NOT USED.
16. CIRCUIT TO STAIRWELL LIGHTING ABOVE. CIRCUIT TO THE MEZZANINE LIGHTING BRANCH CIRCUIT L-21. SEE 2/E106 FOR CIRCUIT CONTINUATION.
17. CIRCUIT TO THE CASHWRAP LIGHTING BRANCH CIRCUIT (L-5) AND CONTROLS.
18. EMERGENCY FIXTURE TO BE CONNECTED TO THE EMERGENCY GENERATOR BACKED PANEL 'EH' (EH-5). PROVIDE A GENERATOR TRANSFER DEVICE AT FIXTURE LOCATION TO ALLOW THE FIXTURE TO BE CONTROLLED WITH THE LOCAL NON-EMERGENCY LIGHTING BRANCH CIRCUIT.
19. EMERGENCY FIXTURE TO BE CONNECTED TO THE EMERGENCY GENERATOR BACKED PANEL 'EH' (EH-7). PROVIDE A GENERATOR TRANSFER DEVICE AT FIXTURE LOCATION TO ALLOW THE FIXTURE TO BE CONTROLLED WITH THE LOCAL NON-EMERGENCY LIGHTING BRANCH CIRCUIT.
20. PROVIDE A JUNCTION BOX AND GFCI PROTECTED CIRCUIT FOR FUTURE TRELLIS FESTOON LIGHTING. MOUNT THE JUNCTION BOX 9" BELOW THE BOTTOM OF THE TRELLIS ROOF STRUCTURE.
21. CASE LIGHTING TO BE CIRCUITED TO PANEL CL. REFER TO THE ONE-LINE DIAGRAM FOR PANEL CL CONTACTOR REQUIREMENTS.

GENERAL NOTES

A. CONNECT ALL EMERGENCY AND EXIT LIGHT FIXTURES TO THE UNSWITCHED SIDE OF THE LIGHTING BRANCH CIRCUIT. LIGHT FIXTURES WITH EMERGENCY DRIVERS SHALL BE NORMALLY SWITCHED WITH THE AREA LIGHTING, BUT HAVE THEIR EMERGENCY DRIVERS CONNECTED AHEAD OF THE LIGHT SWITCH OR LIGHTING CONTROL PANEL RELAY. FIXTURES WILL REMAIN ON FOR NOT LESS THAN 90 MINUTES IN CASE OF POWER LOSS.
B. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS THAT CONDUIT IS TO BE INSTALLED WITHIN WALLS AND ABOVE CEILINGS CONCEALED WHERE POSSIBLE.
C. COORDINATE MOUNTING HEIGHTS OF ALL PENDANT AND WALL MOUNTED LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS.
D. ELECTRICIAN TO VERIFY FIXTURE DIMMING CONTROLS AND TO PROVIDE THE NECESSARY WIRING AND DEVICES REQUIRED FOR DIMMING OPERATION.
E. EC TO CONCEAL ALL FIXTURE DRIVERS IN ACCESSIBLE CEILING SPACE OUT OF DIRECT VIEW.
F. IN ACCORDANCE WITH IECC C408.3, THE ELECTRICAL CONTRACTOR OR LIGHTING CONTROL SYSTEM COMMISSIONING AGENCY SHALL PROVIDE A REPORT TO EEE INDICATING THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED AND THE LIGHTING CONTROL SEQUENCE OF OPERATION REQUIREMENTS HAVE BEEN MET.
G. ALL CABLING ROUTED THROUGH PLENUM SPACES TO BE PLENUM RATED. VERIFY WITH ARCHITECT PRIOR TO CONSTRUCTION.
H. EC TO VERIFY AIR BARRIER IS NO MORE THAN 3" BETWEEN OTHER FIXTURES AND OR INSULATION. IF AIR BARRIER IS LESS THAN 3" AN IC RATED LIGHT FIXTURE SHOULD BE INSTALLED FOR BOTH RESIDENTIAL AND COMMERCIAL APPLICATIONS.

LTG CTRL SEQUENCE OF OPERATION

LIGHTING AND CONTROLS ARE DESIGNED TO MEET IECC 2024.

LIGHTING CONTROL PANEL WILL BE PROGRAMMED TO TURN LIGHTS ON AND OFF FOR HOURS OF OPERATION.

OCCUPANCY SENSORS WILL CONTROL LIGHTING IN RESTROOMS, UTILITY, AND BREAK ROOMS.

MAIN LEVEL LIGHTING EXEMPT FROM DAYLIGHTING REQUIREMENTS PER IECC 2021 C405.2.4 EXEMPTIONS - 2. (A2 AND GROUP 'M' OCCUPANCY)

STAIRWELL LIGHTING IS EXEMPT FROM LIGHTING CONTROLS PER IECC 2021 C405.2 EXEMPTIONS - 2

KITCHEN AUTOMATIC LIGHTING CONTROLS NOT REQUIRED PER C405.2.2 - EXCEPTION 3 (SPACES WHERE AUTOMATIC SHUTOFF WOULD ENDANGER OCCUPANT SAFETY). MANUAL DIMMER SWITCHES PROVIDED.

EXTERIOR LIGHTING SHALL BE PROGRAMMED TO TURN ON AT 6 A.M. AND OFF AT MIDNIGHT. PHOTOCELL WILL AUTOMATICALLY TURN LIGHTS OFF WHEN DAYLIGHTING IS PRESENT AND SATISFIES THE LIGHTING NEEDS. (C405.2.7.1 - C405.2.7.4)

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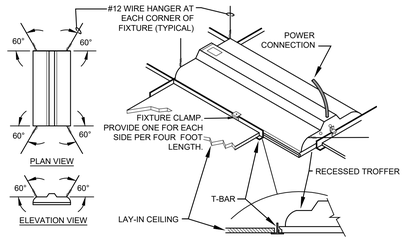
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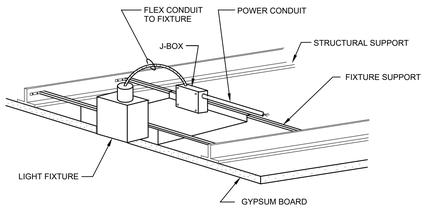
OVERALL LIGHTING PLAN

E101



2 / E102 LAY-IN FIXTURE DETAIL

NO SCALE



3 / E102 RECESSED DOWNLIGHT DETAIL

NO SCALE

1 / E102 ENLARGED DELI LIGHTING PLAN

SCALE: 1/4" = 1'-0"

KEYED NOTES

1. PROVIDE A PILOT LIGHT SWITCH FOR THE WALK IN COOLER/ FREEZER LIGHTING CONTROL. THE SWITCH SHALL BE WIRED SUCH THAT THE PILOT LIGHT IS LIT WHEN THE WALK IN COOLER LIGHTING IS ON. CIRCUIT TO THE WALK IN COOLER CONTROL CIRCUIT.
2. WALK IN COOLER LIGHTING IS TO BE PROVIDED BY THE WALK IN COOLER INSTALLER AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE WITH THE REFRIGERATION VENDOR.
3. ALL PENETRATIONS THROUGH THE REFRIGERATOR & FREEZER SHELL SHALL BE CAULKED AND SEALED TO ELIMINATE CONDENSATION.
4. TAPE LIGHTING TO BE MOUNTED UNDER THE VALENCE EAVE. MOUNT THE LED DRIVER IN AN ACCESSIBLE LOCATION WHERE CONCEALED FROM VIEW. EC TO FIELD MEASURE TAPE LIGHT DISTANCE AND PROVIDE THE NECESSARY NUMBER OF LED DRIVERS FOR A COMPLETE SYSTEM PER MANUFACTURER RECOMMENDED LENGTHS.
5. EMERGENCY FIXTURE TO BE CONNECTED TO THE EMERGENCY GENERATOR BACKED PANEL 'EH' (EH-5). PROVIDE A GENERATOR TRANSFER DEVICE AT FIXTURE LOCATION TO ALLOW THE FIXTURE TO BE CONTROLLED WITH THE LOCAL NON-EMERGENCY LIGHTING BRANCH CIRCUIT.
6. CIRCUIT TO THE VALENCE LIGHTING BRANCH CIRCUIT AND CONTROLS A-20,LCP-43.
7. PROVIDE ALL NECESSARY CONDUIT AND WIRING FOR HOOD LIGHTING CONNECTIONS AND CONTROLS. CIRCUIT TO THE HOOD CONTROLS CIRCUIT. SEE SHEET E202 FOR HOOD CONTROL CIRCUIT INFORMATION.
8. EXIT SIGNS TO BE CIRCUITED TO THE NEAREST EH PANEL UNSWITCHED CIRCUIT.
21. CASE LIGHTING TO BE CIRCUITED TO PANEL CL. REFER TO THE ONE-LINE DIAGRAM FOR PANEL CL CONTACTOR REQUIREMENTS.
22. CIRCUIT COOLER AND FREEZER LIGHTING TO WALK-IN COOLER CONTROL CIRCUIT. SEE SHEET E202 FOR CIRCUIT INFORMATION.

GENERAL NOTES

A. CONNECT ALL EMERGENCY AND EXIT LIGHT FIXTURES TO THE UNSWITCHED SIDE OF THE LIGHTING BRANCH CIRCUIT. LIGHT FIXTURES WITH EMERGENCY DRIVERS SHALL BE NORMALLY SWITCHED WITH THE AREA LIGHTING, BUT HAVE THEIR EMERGENCY DRIVERS CONNECTED AHEAD OF THE LIGHT SWITCH OR LIGHTING CONTROL PANEL RELAY. FIXTURES WILL REMAIN ON FOR NOT LESS THAN 90 MINUTES IN CASE OF POWER LOSS.
B. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS THAT CONDUIT IS TO BE INSTALLED WITHIN WALLS AND ABOVE CEILINGS CONCEALED WHERE POSSIBLE.
C. COORDINATE MOUNTING HEIGHTS OF ALL PENDANT AND WALL MOUNTED LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS.
D. ELECTRICIAN TO VERIFY FIXTURE DIMMING CONTROLS AND TO PROVIDE THE NECESSARY WIRING AND DEVICES REQUIRED FOR DIMMING OPERATION.
E. EC TO CONCEAL ALL FIXTURE DRIVERS IN ACCESSIBLE CEILING SPACE OUT OF DIRECT VIEW.
F. IN ACCORDANCE WITH IECC C408.3, THE ELECTRICAL CONTRACTOR OR LIGHTING CONTROL SYSTEM COMMISSIONING AGENCY SHALL PROVIDE A REPORT TO EEE INDICATING THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED AND THE LIGHTING CONTROL SEQUENCE OF OPERATION REQUIREMENTS HAVE BEEN MET
G. ALL CABLING ROUTED THROUGH PLENUM SPACES TO BE PLENUM RATED. VERIFY WITH ARCHITECT PRIOR TO CONSTRUCTION.
H. EC TO VERIFY AIR BARRIER IS NO MORE THAN 3" BETWEEN OTHER FIXTURES AND OR INSULATION. IF AIR BARRIER IS LESS THAN 3" AN IC RATED LIGHT FIXTURE SHOULD BE INSTALLED FOR BOTH RESIDENTIAL AND COMMERCIAL APPLICATIONS.

LTG CTRL SEQUENCE OF OPERATION

LIGHTING AND CONTROLS ARE DESIGNED TO MEET IECC 2024.

LIGHTING CONTROL PANEL WILL BE PROGRAMMED TO TURN LIGHTS ON AND OFF FOR HOURS OF OPERATION.

OCCUPANCY SENSORS WILL CONTROL LIGHTING IN RESTROOMS, UTILITY, AND BREAK ROOMS.

MAIN LEVEL LIGHTING EXEMPT FROM DAYLIGHTING REQUIREMENTS PER IECC 2024 C405.2.4 EXEMPTIONS - 2. (A2 AND GROUP 'M' OCCUPANCY)

STAIRWELL LIGHTING IS EXEMPT FROM LIGHTING CONTROLS PER IECC 2024 C405.2 EXEMPTIONS - 2

KITCHEN AUTOMATIC LIGHTING CONTROLS NOT REQUIRED PER (C405.2.2 - EXCEPTION 3 (SPACES WHERE AUTOMATIC SHUTOFF WOULD ENDANGER OCCUPANT SAFETY). MANUAL DIMMER SWITCHES PROVIDED.

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REVISIONS

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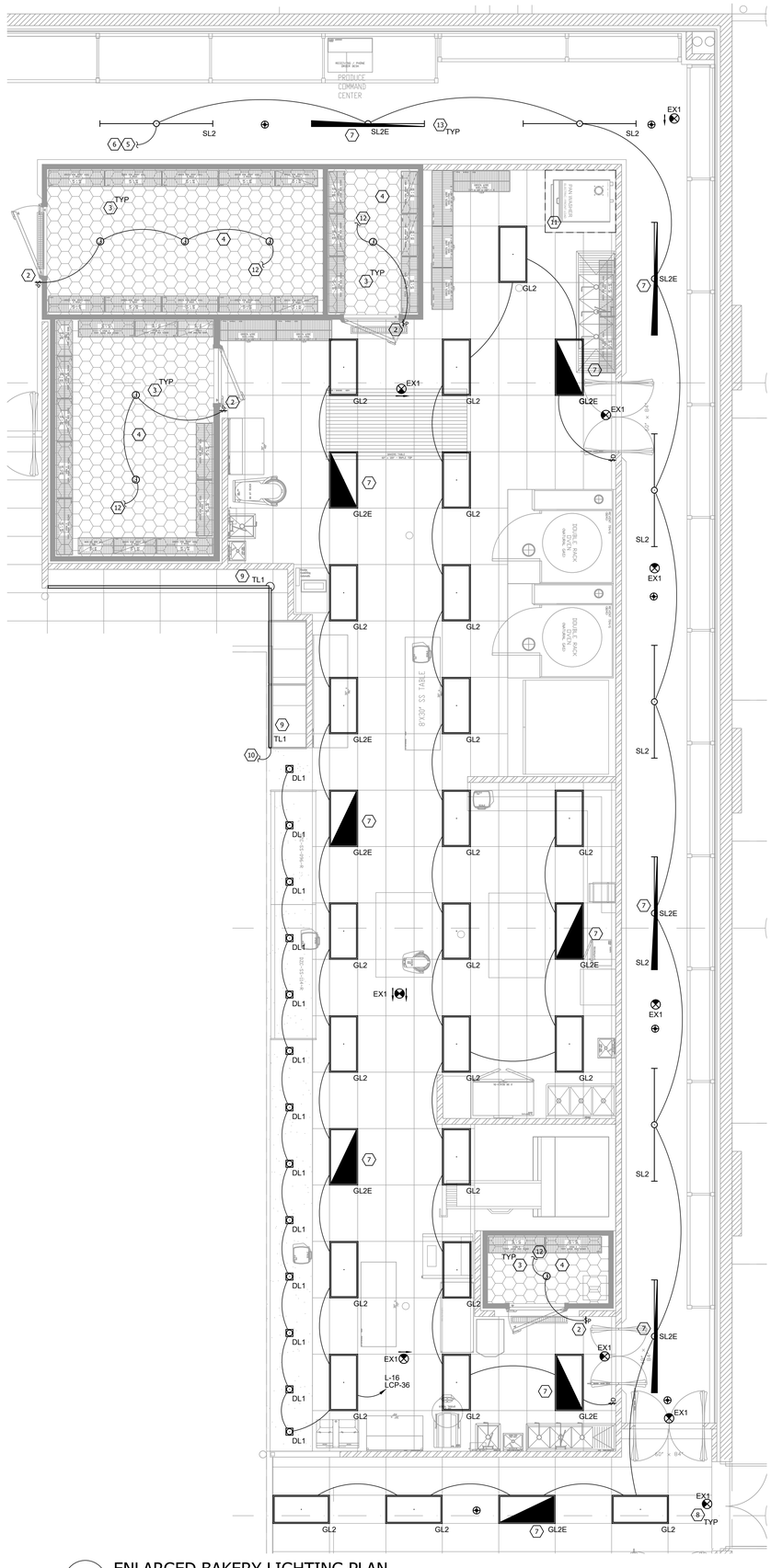
HARMONS SPANISH FORK

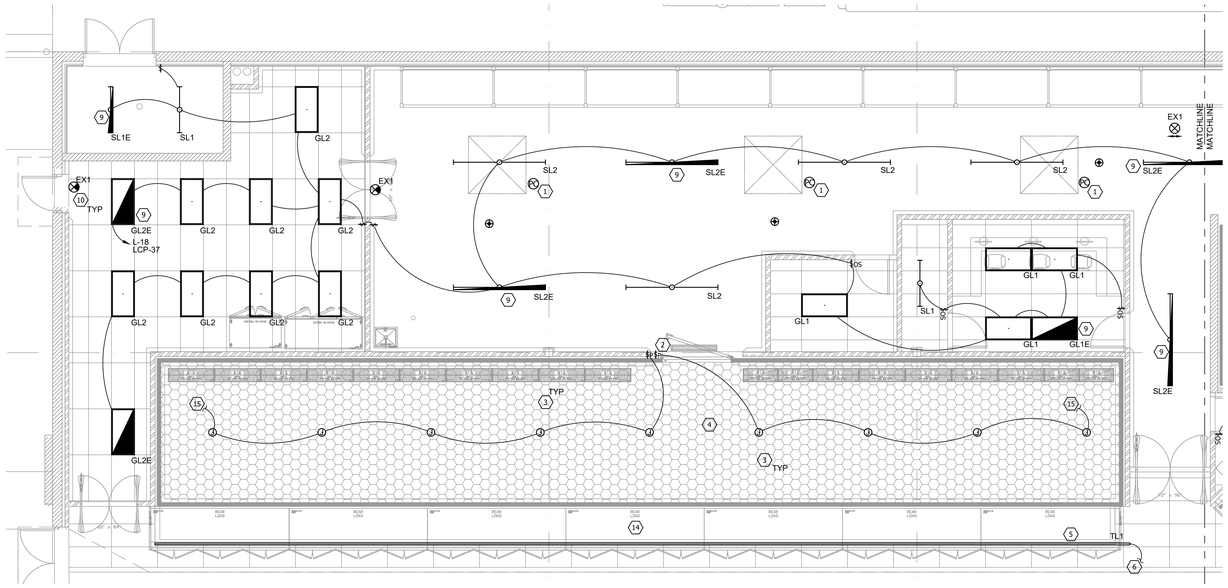
2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

PROJECT #:	26107
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SHEET TITLE:	

DELI
LIGHTING PLAN

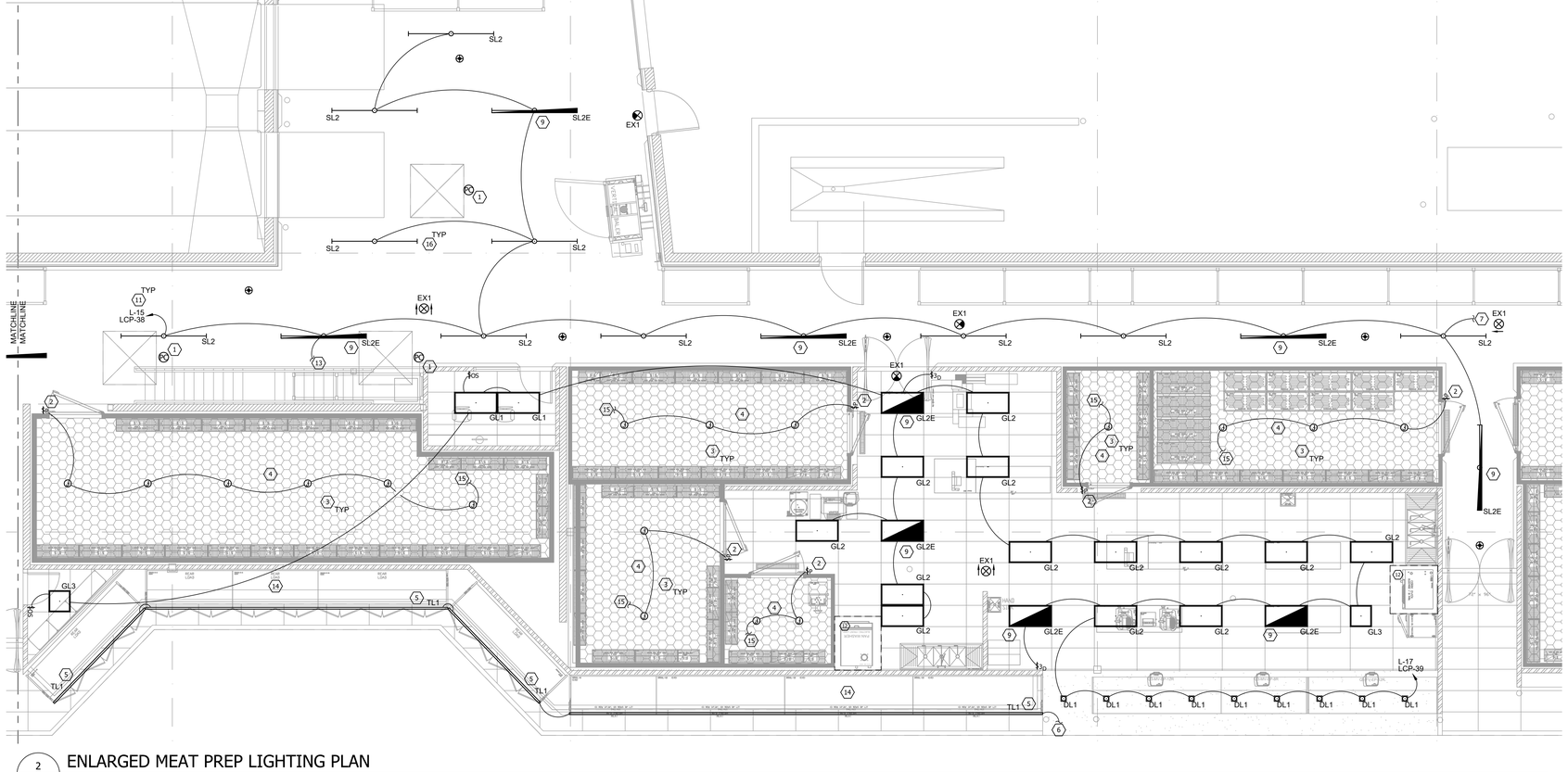
E102


PRODUCE COMMAND CENTER
SL2
SL2E
TYP
EX1
GL2
GL2E
TL1
DL1
L-16
LCP-36
DOUBLE RACK
37 SHELVES
37 SHELVES
EXPO
EXPO
EXPO



1 E104 ENLARGED DAIRY COOLER LIGHTING PLAN

SCALE: 3/16" = 1'-0"



2 E104 ENLARGED MEAT PREP LIGHTING PLAN

SCALE: 3/16" = 1'-0"

KEYED NOTES

1. PROVIDE DAYLIGHT HARVESTING CONTROLS FOR FIXTURES IN IMMEDIATE AREA AROUND SKYLIGHT. REFER TO THE LIGHTING CONTROL SEQUENCE OF OPERATIONS FOR MORE INFORMATION.
2. PROVIDE A PILOT LIGHT SWITCH FOR THE WALK IN COOLER/ FREEZER LIGHTING CONTROL. THE SWITCH SHALL BE WIRED SUCH THAT THE PILOT LIGHT IS LIT WHEN THE WALK IN COOLER LIGHTING IS ON. CIRCUIT TO THE WALK IN COOLER CONTROL CIRCUIT.
3. WALK IN COOLER LIGHTING IS TO BE PROVIDED BY THE WALK IN COOLER INSTALLER AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE WITH THE REFRIGERATION VENDOR.
4. ALL PENETRATIONS THROUGH THE REFRIGERATOR & FREEZER SHELL SHALL BE CAULKED AND SEALED TO ELIMINATE CONDENSATION.
5. TAPE LIGHTING TO BE MOUNTED UNDER THE VALENCE EAVE. MOUNT THE LED DRIVER IN AN ACCESSIBLE LOCATION WHERE CONCEALED FROM VIEW. EC TO FIELD MEASURE TAPE LIGHT DISTANCE AND PROVIDE THE NECESSARY NUMBER OF LED DRIVERS FOR A COMPLETE SYSTEM PER MANUFACTURER RECOMMENDED LENGTHS.
6. CIRCUIT TO THE VALENCE LIGHTING BRANCH CIRCUIT AND CONTROLS A-20,LCP-43.
7. SEE CIRCUIT CONTINUATION ON 1/E103.
8. NOT USED.
9. EMERGENCY FIXTURE TO BE CONNECTED TOT HE EMERGENCY GENERATOR BACKED PANEL 'EH' (EH-3). PROVIDE A GENERATOR TRANSFER DEVICE AT FIXTURE LOCATION TO ALLOW THE FIXTURE TO BE CONTROLLED WITH THE LOCAL NON-EMERGENCY LIGHTING BRANCH CIRCUIT.
10. EXIT SIGNS TO BE CIRCUITED TO THE NEAREST EH PANEL UNSWITCHED CIRCUIT.
11. ALL BOH LIGHTING BRANCH CIRCUITS SHALL BE ROUTED TO THE BUILDING LIGHTING CONTROL PANEL FOR SCHEDULED TIME CONTROLS. FIXTURES TO BE REDUCED TO 50% LIGHT OUTPUT WHEN THE SPACE IS UNOCCUPIED FOR MOR THAN 20 MINUTES. OCCUPANCY SENSORS WILL AUTOMATICALLY BRING LIGHTING BACK TO 100%.
12. PROVIDE ALL NECESSARY CONDUIT AND WIRING FOR HOOD LIGHTING CONNECTIONS AND CONTROLS. CIRCUIT TO THE HOOD CONTROLS SYSTEM. SEE SHEET E204 FOR HOOD CONTROL CIRCUIT INFORMATION.
13. CIRCUIT TO LIGHTING ON THE MEZZANINE FLOOR ABOVE. SEE CIRCUIT CONTINUATION ON SHEET 1/E106.
14. CASE LIGHTING TO BE CIRCUITED TO PANEL CL. REFER TO THE ONE-LINE DIAGRAM FOR PANEL CL CONTACTOR REQUIREMENTS.
15. CIRCUIT COOLER AND FREEZER LIGHTING TO WALK-IN COOLER CONTROL CIRCUIT. SEE SHEET E203 FOR CIRCUIT INFORMATION.
16. SUSPEND BOH LIGHT FIXTURES AT 20' AFF.

GENERAL NOTES

A. CONNECT ALL EMERGENCY AND EXIT LIGHT FIXTURES TO THE UNSWITCHED SIDE OF THE LIGHTING BRANCH CIRCUIT. LIGHT FIXTURES WITH EMERGENCY DRIVERS SHALL BE NORMALLY SWITCHED WITH THE AREA LIGHTING, BUT HAVE THEIR EMERGENCY DRIVERS CONNECTED AHEAD OF THE LIGHT SWITCH OR LIGHTING CONTROL PANEL RELAY. FIXTURES WILL REMAIN ON FOR NOT LESS THAN 90 MINUTES IN CASE OF POWER LOSS.
B. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS THAT CONDUIT IS TO BE INSTALLED WITHIN WALLS AND ABOVE CEILINGS CONCEALED WHERE POSSIBLE.
C. COORDINATE MOUNTING HEIGHTS OF ALL PENDANT AND WALL MOUNTED LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS.
D. ELECTRICIAN TO VERIFY FIXTURE DIMMING CONTROLS AND TO PROVIDE THE NECESSARY WIRING AND DEVICES REQUIRED FOR DIMMING OPERATION.
E. EC TO CONCEAL ALL FIXTURE DRIVERS IN ACCESSIBLE CEILING SPACE OUT OF DIRECT VIEW.
F. IN ACCORDANCE WITH IECC C408.3, THE ELECTRICAL CONTRACTOR OR LIGHTING CONTROL SYSTEM COMMISSIONING AGENCY SHALL PROVIDE A REPORT TO EEE INDICATING THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED AND THE LIGHTING CONTROL SEQUENCE OF OPERATION REQUIREMENTS HAVE BEEN MET
G. ALL CABLING ROUTED THROUGH PLENUM SPACES TO BE PLENUM RATED. VERIFY WITH ARCHITECT PRIOR TO CONSTRUCTION.
H. EC TO VERIFY AIR BARRIER IS NO MORE THAN 3" BETWEEN OTHER FIXTURES AND OR INSULATION. IF AIR BARRIER IS LESS THAN 3" AN IC RATED LIGHT FIXTURE SHOULD BE INSTALLED FOR BOTH RESIDENTIAL AND COMMERCIAL APPLICATIONS.

LTG CTRL SEQUENCE OF OPERATION

LIGHTING AND CONTROLS ARE DESIGNED TO MEET IECC 2024.

LIGHTING CONTROL PANEL WILL BE PROGRAMMED TO TURN LIGHTS ON AND OFF FOR HOURS OF OPERATION.

OCCUPANCY SENSORS WILL CONTROL LIGHTING IN RESTROOMS, UTILITY, AND BREAK ROOMS.

MAIN LEVEL LIGHTING EXEMPT FROM DAYLIGHTING REQUIREMENTS PER IECC 2021 C405.2.4 EXEMPTIONS - 2. (A2 AND GROUP 'M' OCCUPANCY)

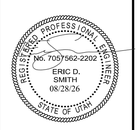
STAIRWELL LIGHTING IS EXEMPT FROM LIGHTING CONTROLS PER IECC 2021 C405.2 EXEMPTIONS - 2

KITCHEN AUTOMATIC LIGHTING CONTROLS NOT REQUIRED PER (C405.2.2 - EXCEPTION 3 (SPACES WHERE AUTOMATIC SHUTOFF WOULD ENDANGER OCCUPANT SAFETY). MANUAL DIMMER SWITCHES PROVIDED.

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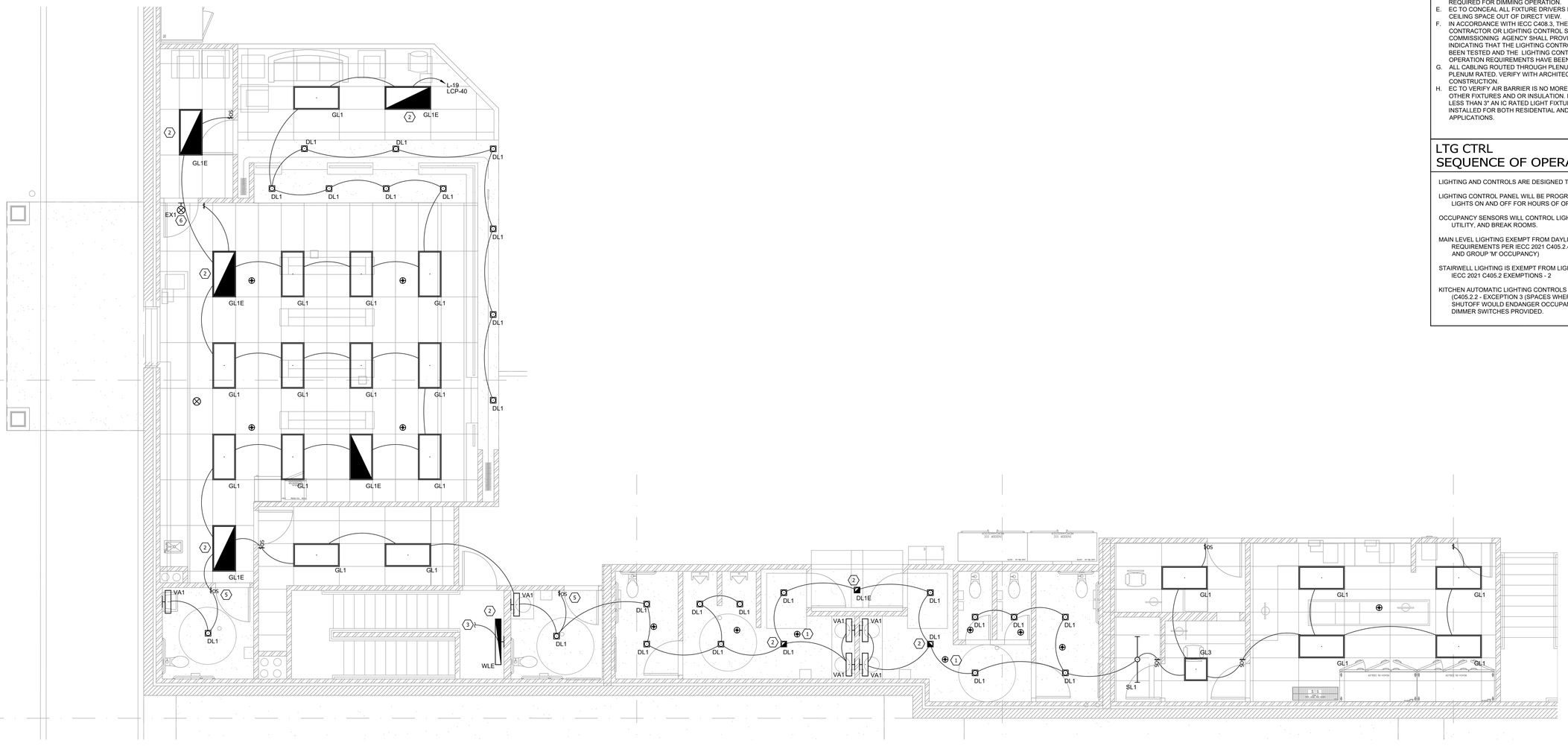
HARMONS SPANISH FORK

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

PROJECT #:	26107
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SHEET TITLE:	

MEAT PREP & E-SHOP PREP LIGHTING PLAN

E104



1 E105 ENLARGED PHARMACY LIGHTING PLAN

SCALE: 1/4" = 1'-0"

KEYED NOTES

1. PROVIDE A CEILING MOUNT DUAL TECH TWO POLE OCC. SENSOR FOR RESTROOM LIGHT AND FAN CONTROL.
2. EMERGENCY FIXTURE TO BE CONNECTED TO THE EMERGENCY GENERATOR BACKED PANEL 'EH' (EH-5). PROVIDE A GENERATOR TRANSFER DEVICE AT FIXTURE LOCATION TO ALLOW THE FIXTURE TO BE CONTROLLED WITH THE LOCAL NON-EMERGENCY LIGHTING BRANCH CIRCUIT.
3. CIRCUIT TO STAIRWAY ABOVE. SEE SHEET 1/E106.
4. PHARMACY DRIVE THROUGH EXTERIOR LIGHTING. SEE SHEET 1/E101 FOR MORE INFORMATION.
5. PROVIDE A WALL MOUNT DUAL TECH TWO POLE OCC. SENSOR FOR RESTROOM LIGHT AND FAN CONTROL. (SENSOR SWITCH #WSX PDT 2P OR EQUIVALENT).
6. EXIT SIGNS TO BE CIRCUITED TO THE NEAREST EH PANEL UNSWITCHED CIRCUIT.

GENERAL NOTES

A. CONNECT ALL EMERGENCY AND EXIT LIGHT FIXTURES TO THE UNSWITCHED SIDE OF THE LIGHTING BRANCH CIRCUIT. LIGHT FIXTURES WITH EMERGENCY DRIVERS SHALL BE NORMALLY SWITCHED WITH THE AREA LIGHTING, BUT HAVE THEIR EMERGENCY DRIVERS CONNECTED AHEAD OF THE LIGHT SWITCH OR LIGHTING CONTROL PANEL RELAY. FIXTURES WILL REMAIN ON FOR NOT LESS THAN 90 MINUTES IN CASE OF POWER LOSS.
B. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS THAT CONDUIT IS TO BE INSTALLED WITHIN WALLS AND ABOVE CEILINGS CONCEALED WHERE POSSIBLE.
C. COORDINATE MOUNTING HEIGHTS OF ALL PENDANT AND WALL MOUNTED LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS.
D. ELECTRICIAN TO VERIFY FIXTURE DIMMING CONTROLS AND TO PROVIDE THE NECESSARY WIRING AND DEVICES REQUIRED FOR DIMMING OPERATION.
E. EC TO CONCEAL ALL FIXTURE DRIVERS IN ACCESSIBLE CEILING SPACE OUT OF DIRECT VIEW.
F. IN ACCORDANCE WITH IECC C408.3, THE ELECTRICAL CONTRACTOR OR LIGHTING CONTROL SYSTEM COMMISSIONING AGENCY SHALL PROVIDE A REPORT TO EEE INDICATING THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED AND THE LIGHTING CONTROL SEQUENCE OF OPERATION REQUIREMENTS HAVE BEEN MET.
G. ALL CABLING ROUTED THROUGH PLENUM SPACES TO BE PLENUM RATED. VERIFY WITH ARCHITECT PRIOR TO CONSTRUCTION.
H. EC TO VERIFY AIR BARRIER IS NO MORE THAN 3" BETWEEN OTHER FIXTURES AND OR INSULATION. IF AIR BARRIER IS LESS THAN 3" AN IC RATED LIGHT FIXTURE SHOULD BE INSTALLED FOR BOTH RESIDENTIAL AND COMMERCIAL APPLICATIONS.

LTG CTRL SEQUENCE OF OPERATION

LIGHTING AND CONTROLS ARE DESIGNED TO MEET IECC 2024.

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MAIN LEVEL LIGHTING EXEMPT FROM DAYLIGHTING REQUIREMENTS PER IECC 2021 C405.2.4 EXEMPTIONS - 2. (A2 AND GROUP 'M' OCCUPANCY)

STAIRWELL LIGHTING IS EXEMPT FROM LIGHTING CONTROLS PER IECC 2021 C405.2 EXEMPTIONS - 2

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REVISIONS

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REGISTERED PROFESSIONAL ENGINEER
No. 705562-2202
ERIC D. SMITH
08/28/26
STATE OF UTAH

HARMONS SPANISH FORK

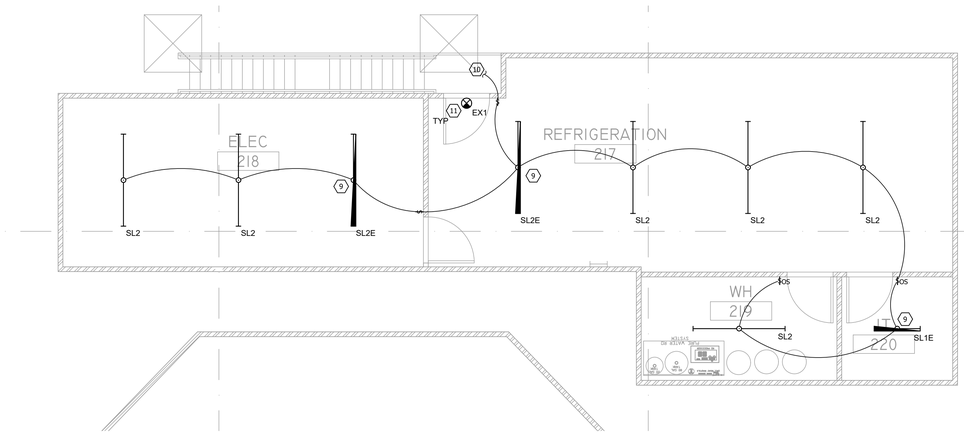
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CHECKED BY:	ES

SHEET TITLE:

PHARMACY LIGHTING PLAN

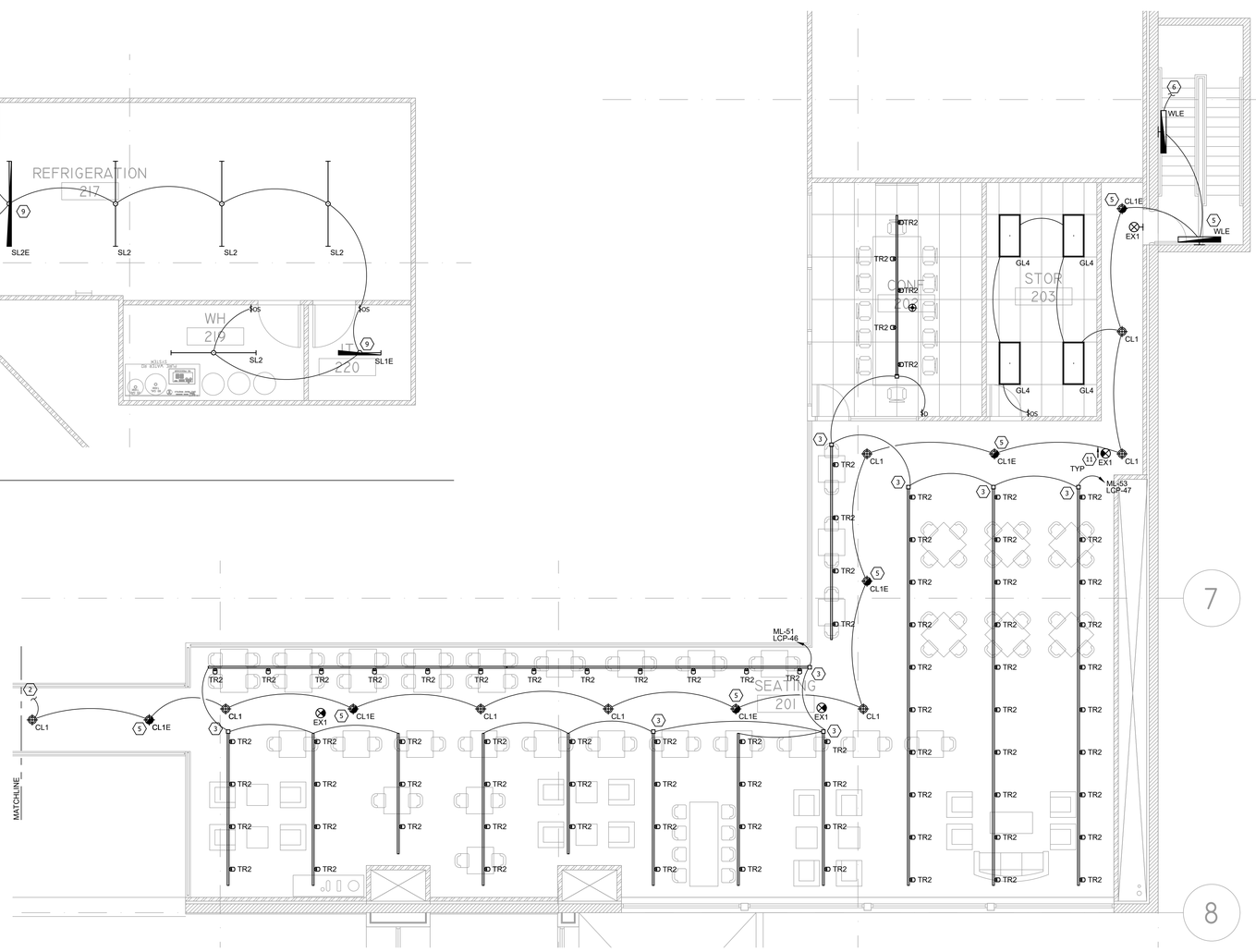
E105



1 E106

ELECTRICAL ROOM LIGHTING PLAN

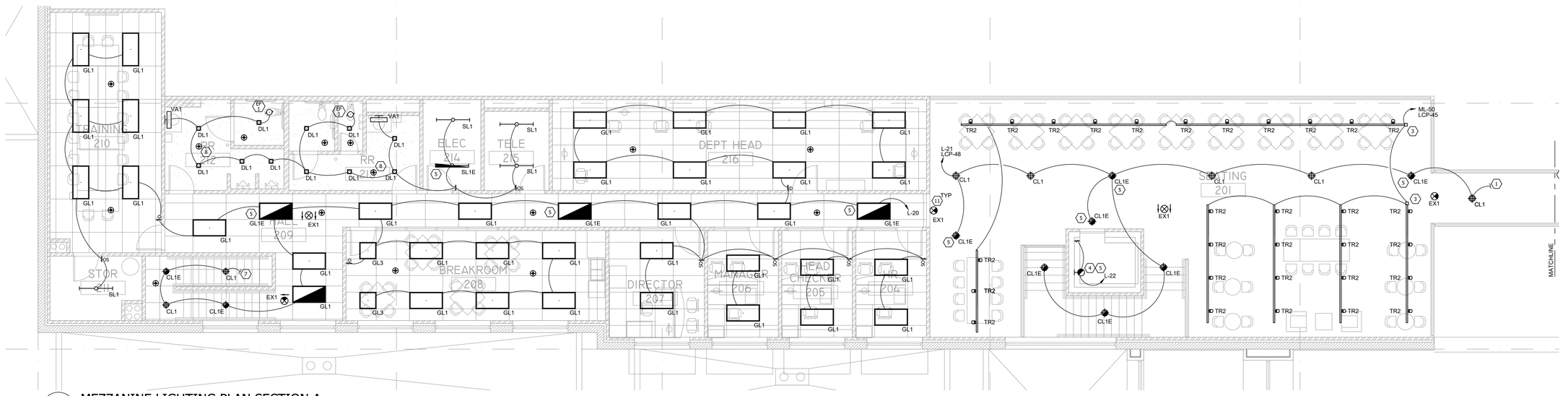
SCALE: 3/16" = 1'-0"



2 E106

MEZZANINE LIGHTING PLAN SECTION B

SCALE: 3/16" = 1'-0"



3 E106

MEZZANINE LIGHTING PLAN SECTION A

SCALE: 3/16" = 1'-0"

KEYED NOTES

1. SEE CIRCUIT CONTINUATION ON 2/E106.
2. SEE CIRCUIT CONTINUATION ON 3/E106.
3. PROVIDE A 5 AMP CONTINOUS DUTY CURRENT LIMITING DEVICE BUILD INTO END FEED OF TRACK LIGTING. TRACK LIGHTING SHALL BE WIRED IN WHICH ONLY ONE CURRENT LIMITING DEVICE IS NEEDED PER HOMERUN.
4. 4' STRIP LIGHT TO BE MOUNTED VERTICALLY IN ELEVATOR SHAFT. COORDINATE EXACT MOUNTING LOCATION WITH THE ELEVATOR INSTALLER. INSTALL FIXTURE WHERE NOT SUBJECT TO PHYSICAL DAMAGE.
5. EMERGENCY FIXTURE TO BE CONNECTED TO THE EMERGENCY GENERATOR BACKED PANEL 'EH' (EH-5). PROVIDE A GENERATOR TRANSFER DEVICE AT FIXTURE LOCATION TO ALLOW THE FIXTURE TO BE CONTROLLED WITH THE LOCAL NON-EMERGENCY LIGHTING BRANCH CIRCUIT.
6. CIRCUIT TO STAIRWAY BELOW. SEE 1/E101.
7. CIRCUIT TO STAIRWAY BELOW. SEE 1/E105.
8. PROVIDE A CEILING MOUNT DUAL TECH TWO POLE OCC. SENSOR FOR RESTROOM LIGHT AND FAN CONTROL.
9. EMERGENCY FIXTURE TO BE CONNECTED TO THE EMERGENCY GENERATOR BACKED PANEL 'EH' (EH-3). PROVIDE A GENERATOR TRANSFER DEVICE AT FIXTURE LOCATION TO ALLOW THE FIXTURE TO BE CONTROLLED WITH THE LOCAL NON-EMERGENCY LIGHTING BRANCH CIRCUIT.
10. CIRCUIT TO THE BOH LIGHTING BRANCH CIRCUIT ON THE LEVEL BELOW. SEE 2/E104 FOR CIRCUIT CONTINUATION.
11. EXIT SIGNS TO BE CIRCUITED TO THE NEAREST EH PANEL UNSWITCHED CIRCUIT.

GENERAL NOTES

A. CONNECT ALL EMERGENCY AND EXIT LIGHT FIXTURES TO THE UNSWITCHED SIDE OF THE LIGHTING BRANCH CIRCUIT. LIGHT FIXTURES WITH EMERGENCY DRIVERS SHALL BE NORMALLY SWITCHED WITH THE AREA LIGHTING, BUT HAVE THEIR EMERGENCY DRIVERS CONNECTED AHEAD OF THE LIGHT SWITCH OR LIGHTING CONTROL PANEL RELAY. FIXTURES WILL REMAIN ON FOR NOT LESS THAN 90 MINUTES IN CASE OF POWER LOSS.
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E. EC TO CONCEAL ALL FIXTURE DRIVERS IN ACCESSIBLE CEILING SPACE OUT OF DIRECT VIEW.
F. IN ACCORDANCE WITH IECC C408.3, THE ELECTRICAL CONTRACTOR OR LIGHTING CONTROL SYSTEM COMMISSIONING AGENCY SHALL PROVIDE A REPORT TO EEE INDICATING THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED AND THE LIGHTING CONTROL SEQUENCE OF OPERATION REQUIREMENTS HAVE BEEN MET.
G. ALL CABLING ROUTED THROUGH PLENUM SPACES TO BE PLENUM RATED. VERIFY WITH ARCHITECT PRIOR TO CONSTRUCTION.
H. EC TO VERIFY AIR BARRIER IS NO MORE THAN 3" BETWEEN OTHER FIXTURES AND OR INSULATION. IF AIR BARRIER IS LESS THAN 3" AN IC RATED LIGHT FIXTURE SHOULD BE INSTALLED FOR BOTH RESIDENTIAL AND COMMERCIAL APPLICATIONS.

LTG CTRL SEQUENCE OF OPERATION

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STAIRWELL LIGHTING IS EXEMPT FROM LIGHTING CONTROLS PER IECC 2021 C405.2 EXEMPTIONS - 2

KITCHEN AUTOMATIC LIGHTING CONTROLS NOT REQUIRED PER (C405.2.2 - EXCEPTION 3 (SPACES WHERE AUTOMATIC SHUTOFF WOULD ENDANGER OCCUPANT SAFETY). MANUAL DIMMER SWITCHES PROVIDED.

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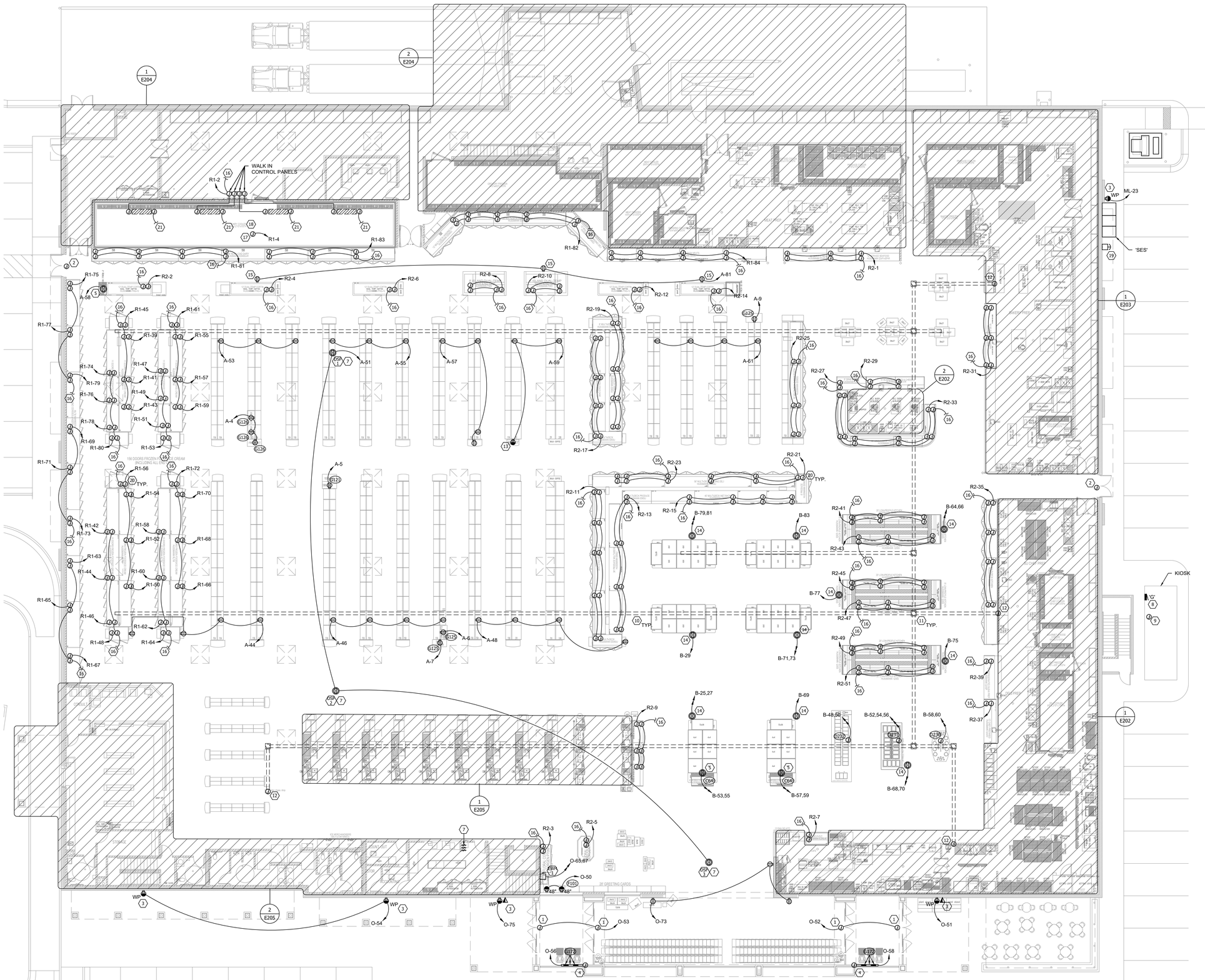
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MEZZANINE LIGHTING PLAN

E106



1 E201 POWER PLAN

SCALE: 3/32" = 1'-0"

KEYED NOTES

1. COORDINATE AUTOMATIC DOOR ELECTRICAL CONNECTIONS WITH DOOR INSTALLER AND MANUFACTURER'S INSTALLATION GUIDELINES. PROVIDE ALL CONDUIT AND WIRING FOR A COMPLETE SYSTEM.
2. POWER FOR DELAYED EGRESS. EC TO MAKE ALL CONNECTIONS. REFER TO TO THE MANUFACTURER INSTALLATION REQUIREMENTS FOR MORE INFORMATION. CIRCUIT TO 'A-3'.
3. PROVIDE A LOCKABLE FLUSH COVER FOR POWER AND TELECOM OUTLETS. HUBBELL HEAVY DUTY CAST FLUSH WEATHERPROOF COVER #4600RAC OR APPROVED EQUAL.
4. PROVIDE A 6'-0" LEGRAND 2000 SERIES PLUGMOLD FOR MOBILITY CART CHARGING STATION. COORDINATE PLUGMOLD MOUNTING HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION.
5. PROVIDE A DUPLEX OR SPECIAL PURPOSE RECEPTACLE (WOODHEAD 3000 SERIES) CORD DROP. COORDINATE CORD DROP MOUNTING HEIGHT WITH THE OWNER PRIOR TO INSTALLATION. REFER TO THE CORD DROP DETAIL 1/E501 FOR MORE INFORMATION.
7. PROVIDE A DUPLEX RECEPTACLE MOUNTED WITHIN CEILING FOR DESTRATIFICATION FAN. PROVIDE (1) 3/4"C FROM FAN TO SPEED CONTROLLER LOCATED IN CUSTOMER SERVICE. COORDINATE FINAL LOCATION WITH THE MECHANICAL CONTRACTOR.
8. PROVIDE (1) 2.5"C TO ELECTRICAL PANEL FOR FUEL STATION KIOSK (PROVIDED BY OTHERS). COORDINATE KIOSK ELECTRICAL REQUIREMENTS WITH THE FUEL STATION INSTALLERS PRIOR TO CONSTRUCTION.
9. ROUTE (1) 2"C FROM THE IT ROOM TO THIS LOCATION FOR KIOSK TELECOM CONNECTION. COORDINATE FURTHER REQUIREMENTS WITH THE FUEL STATION INSTALLERS.
10. PROVIDE #4 DOUBLE DUCT CHANNELING IN THE LAYOUT SHOWN FOR THE ROUTING OF SALES FLOOR POWER AND DATA.
11. PROVIDE A DOUBLE DUCT JUNCTION BOX AT EACH INTERSECTION / CORNER. PROVIDE A TRAFFIC RATED FINISHED COVER TO BE INSTALLED FLUSH WITH THE FINISHED FLOOR.
12. PROVIDE A VERTICAL 90° ELBOW TO TRANSITION FROM WALKER DUCT UP TO AN ACCESSIBLE CEILING SPACE FOR THE ROUTING OF POWER AND DATA WIRING. PROVIDE SPACERS TO SEPARATE CLASS 1 AND CLASS 2 WIRING.
13. COORDINATE DRINKING FOUNTAIN RECEPTACLE LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH IN. GFCI RECEPTACLE TO BE MOUNTED IN AN ACCESSIBLE LOCATION.
14. PROVIDE A DUPLEX OR SPECIAL PURPOSE RECEPTACLE (WOODHEAD 3000 SERIES) CORD DROP. COORDINATE CORD DROP MOUNTING HEIGHT WITH THE OWNER PRIOR TO INSTALLATION. PROVIDE 10' OF EXCESS CABLE TO BE COILED AND SECURED IN CEILING. REFER TO THE CORD DROP DETAIL 1/E501 FOR MORE INFORMATION.
15. MOUNT RECEPTACLE IN CASE TOE KICK.
16. PROVIDE (1) 1"C WITH (1) BELDEN #8761 CABLE, (1) ECHELON COMMUNICATION CABLE, (1) 18/4 SHIELDED CABLE AND (1) 18/2 SHIELDED CABLE BACK TO THE REFRIGERATION RACK CPU. DO NOT INCLUDE WIRING IN HIGH VOLTAGE CONDUITS. WIRE SIZE AND QUANTITIES ARE SUBJECT TO CHANGE. VERIFY ALL CONTROL WIRE SPECIFICATIONS WITH THE REFRIGERATION CONTRACTOR PRIOR TO CONSTRUCTION.
17. PROVIDE A DEDICATED 20A CIRCUIT FOR REFRIGERATION EQUIPMENT LIGHTING & CONTROLS. COORDINATE CONNECTION REQUIREMENTS WITH REFRIGERATION EQUIPMENT INSTALLER.
18. ALL CONDUIT PENETRATIONS THROUGH INSULATED REFRIGERATOR WALLS SHALL BE CAULKED AND SEALED. PROVIDE CONDUIT SEALS TO LIMIT CONDENSATION.
19. PROVIDE A 12/2 CONTROL LOOP FROM THE GENERATOR TO THE EMERGENCY SHUTOFF BUTTON. COORDINATE FURTHER REQUIREMENTS WITH THE GENERATOR INSTALLER.
20. ALL REFRIGERATION CASES TO HAVE A SINGLE POWER POINT CONNECTION. CIRCUIT TO INDICATED CIRCUIT SHOWN. SEE REFRIGERATION DRAWINGS FOR MORE INFORMATION.
21. PROVIDE (1) 1"C WITH (1) 3-CONDUCTOR BELDEN #8761 CABLE, (2) 2-CONDUCTOR BELDEN #8761 CABLE, (2) 14/2 SHIELDED CABLE AND (2) 2-CONDUCTOR BELDEN #8761 CABLE (ONLY FOR FREEZER DEFROST PROBE) BACK TO THE WALK IN CONTROL PANEL. DO NOT INCLUDE WIRING IN HIGH VOLTAGE CONDUITS. WIRE SIZE AND QUANTITIES ARE SUBJECT TO CHANGE. VERIFY ALL CONTROL WIRE SPECIFICATIONS WITH THE REFRIGERATION CONTRACTOR PRIOR TO CONSTRUCTION.

GENERAL NOTES

A. EC SHALL ENSURE THAT HORN STROBE SPACING PROVIDES 15db THROUGHOUT SPACE. ANY ADDITIONAL HORN STROBES REQUIRED BY FIRE MARSHALL SHALL BE PROVIDED AT THE COST OF THE GENERAL CONTRACTOR.
B. ALL UNDERGROUND ELECTRICAL SHALL BE BURIED IN ACCORDANCE WITH NEC 300.5 UNLESS OTHERWISE NOTED. ALL ELECTRICAL UNDER BUILDING SLAB SHALL BE BURIED MINIMUM 12" BELOW BOTTOM OF CONCRETE SLAB.
C. ALL CABLING ROUTED THROUGH PLENUM SPACES TO BE PLENUM RATED. VERIFY WITH ARCHITECT PRIOR TO CONSTRUCTION.
D. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS THAT CONDUIT IS TO BE INSTALLED WITHIN WALLS AND ABOVE CEILINGS CONCEALED WHERE POSSIBLE.

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REVISIONS

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-	08/28/26	PERMIT SET

LICENSED PROFESSIONAL ENGINEER
No. 705562-2202
ERIC D. SMITH
08/28/26
STATE OF UTAH

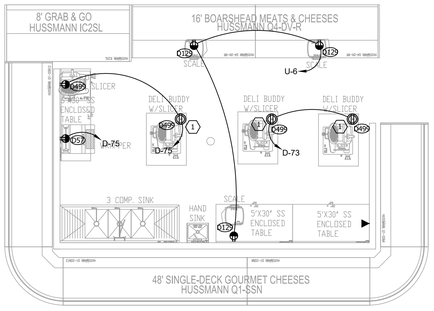
HARMONS SPANISH FORK

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

PROJECT #:	26107
SHEET SIZE:	30"x42"
DATE:	8/28/26
DRAWN BY:	NF,MS,ZF
CHECKED BY:	ES
SHEET TITLE:	

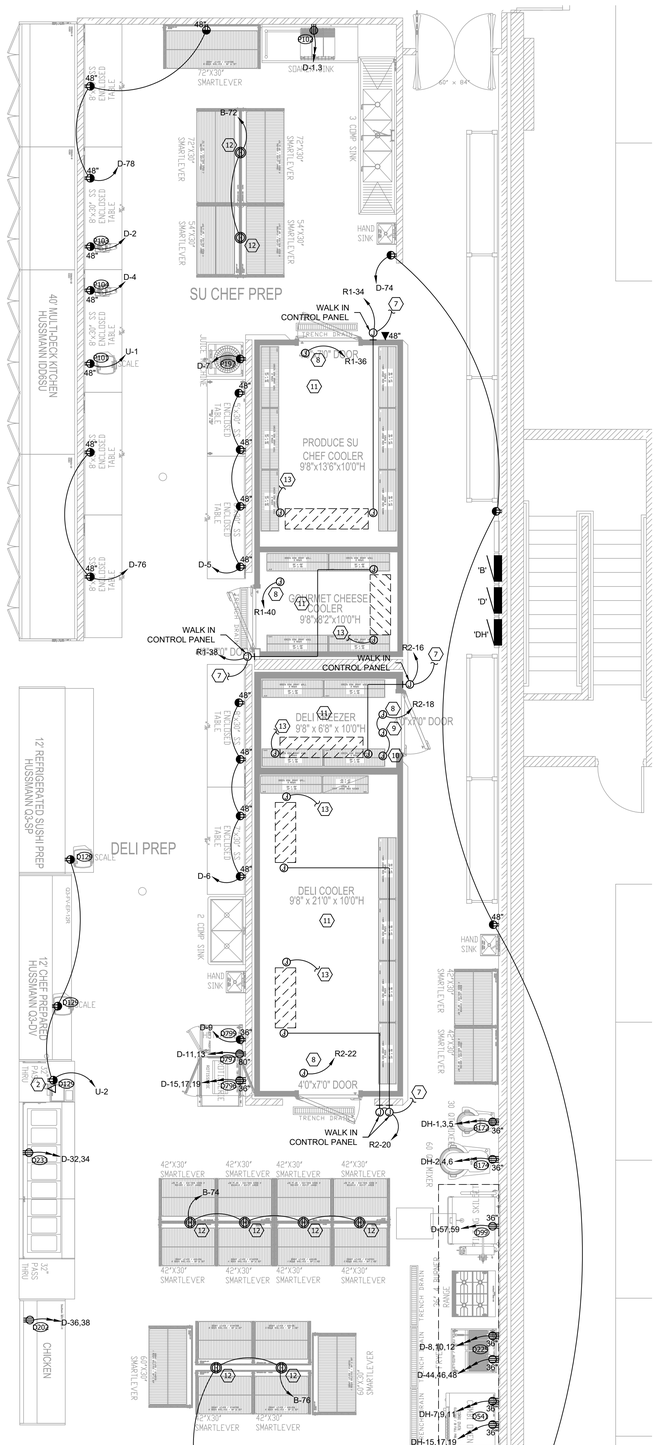
OVERALL POWER PLAN

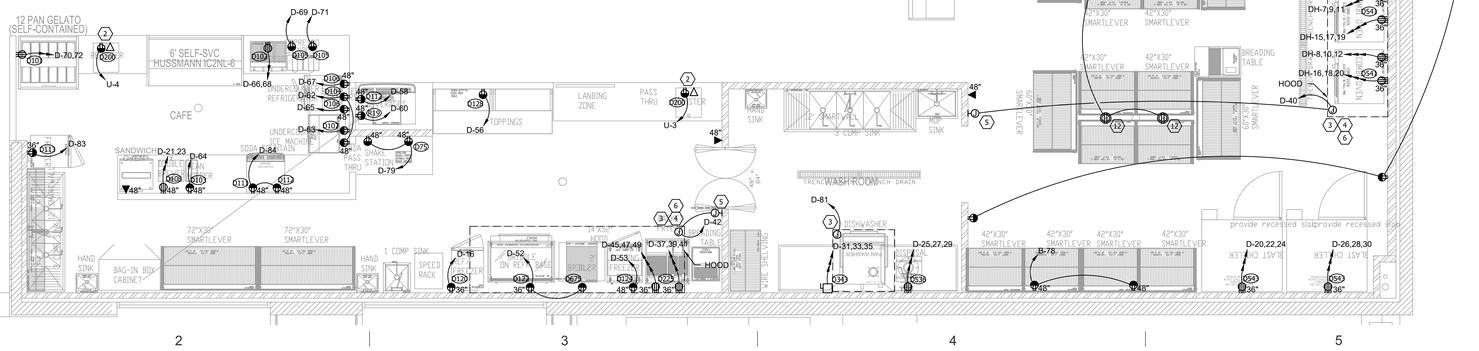
E201



2 E202 ENLARGED DELI CHEEESE ISLAND POWER PLAN

SCALE: 1/4" = 1'-0"





1 E202 ENLARGED DELI POWER PLAN

SCALE: 1/4" = 1'-0"

KEYED NOTES

1. PROVIDE A DUPLEX RECEPTACLE (WOODHEAD 3000 SERIES) CORD DROP ON A GFCI PROTECTED CIRCUIT. COORDINATE CORD DROP MOUNTING HEIGHT WITH THE OWNER PRIOR TO INSTALLATION. REFER TO THE CORD DROP DETAIL 1/E501 FOR MORE INFORMATION.
2. MOUNT POWER AND DATA OUTLETS IN AN ACCESSIBLE LOCATION WITHIN MILLWORK UNDER THE POS STATION. COORDINATE OUTLET MOUNTING AND CONDUIT ROUTING WITH THE MILLWORK CONTRACTOR. ROUTE CONDUIT WHERE NOT SUBJECT TO PHYSICAL DAMAGE AND WHERE CONCEALED.
3. PROVIDE A DEDICATED CIRCUIT FOR HOOD LIGHTING AND CONTROLS. EC TO PROVIDE ALL CONDUIT AND WIRING REQUIRED FOR HOOD CONTROLS WHICH MAY INCLUDE GAS SHUT-OFF VALVE, ROOM TEMPERATURE SENSORS, DUCT SENSORS, ETC. COORDINATE WITH THE CAPTIVE AIRE DRAWINGS FOR MORE INFORMATION.
4. ALL ELECTRICAL LOCATED BENEATH HOOD SHALL BE SHUNT PROTECTED. THE SHUNT PROTECTION SHALL BE CONTROLLED BY THE HOOD ANSUL SYSTEM. PROVIDE A 12/2 CONTROL LOOP CIRCUITED TO ALL SHUNT PROTECTED CIRCUIT BREAKERS PERTAINING TO THIS HOOD.
5. HOOD REMOTE EMERGENCY SHUT-OFF BUTTON. PROVIDE A 12/2 CONTROL LOOP TO THE HOOD CONTROL PANEL. REFER TO THE CAPTIVE AIRE DRAWINGS.
6. PROVIDEA CAT6 CABLE TO THE HOOD CONTROL PANEL FROM THE TELEPHONE BOARD FOR INTERNET CONNECTIONS. PROVIDE A 12/2 CONTROL LOOP FROM THE CONTROL PANEL TO EACH HOOD DUCT SENSOR, TEMPERATURE SENSOR, AND GAS VALVE CONTROLLER. REFER TO THE HOOD SHOP DRAWINGS AND HOOD INSTALLER FOR MORE INFORMATION.
7. PROVIDE (1) 1"C WITH (1) BELDEN #8761 CABLE, (1) ECHELON COMMUNICATION CABLE, (1) 18/4 SHIELDED CABLE AND (1) 18/2 SHIELDED CABLE BACK TO THE REFRIGERATION RACK CPU. DO NOT INCLUDE WIRING IN HIGH VOLTAGE CONDUITS. WIRE SIZE AND QUANTITIES ARE SUBJECT TO CHANGE. VERIFY ALL CONTROL WIRE SPECIFICATIONS WITH THE REFRIGERATION CONTRACTOR PRIOR TO CONSTRUCTION.
8. PROVIDE A DEDICATED 20A CIRCUIT FOR REFRIGERATION EQUIPMENT LIGHTING & CONTROLS. COORDINATE CONNECTION REQUIREMENTS WITH REFRIGERATION EQUIPMENT INSTALLER.
9. CIRCUIT FREEZER CONTROL CIRCUIT TO DOOR HEAT STRIP COORDINATE WITH EQUIPMENT INSTALLER.
10. EC TO PROVIDE HEAT TRACE ALONG FAN CONDENSATE LINES. PROVIDE A RAYCHEM 11WILF HEAT TRACE SYSTEM. CIRCUIT TO REFRIGERATION EQUIPMENT CONTROL CIRCUIT.
11. ALL CONDUIT PENETRATIONS THROUGH INSULATED REFRIGERATOR WALLS SHALL BE CAULKED AND SEALED. PROVIDE CONDUIT SEALS TO LIMIT CONDENSATION.
12. PROVIDE A DUPLEX RECEPTACLE (WOODHEAD 3000 SERIES) CORD DROP ON A GFCI PROTECTED CIRCUIT. COORDINATE CORD DROP MOUNTING HEIGHT WITH THE OWNER PRIOR TO INSTALLATION. REFER TO THE CORD DROP DETAIL 1/E501 FOR MORE INFORMATION.
13. PROVIDE (1) 1"C WITH (1) 3-CONDUCTOR BELDEN #8761 CABLE, (2) 2-CONDUCTOR BELDEN #8761 CABLE, (2) 14/2 SHIELDED CABLE AND (2) 2-CONDUCTOR BELDEN #8761 CABLE (ONLY FOR FREEZER DEFROST PROBE) BACK TO THE WALK IN CONTROL PANEL. DO NOT INCLUDE WIRING IN HIGH VOLTAGE CONDUITS. WIRE SIZE AND QUANTITIES ARE SUBJECT TO CHANGE, VERIFY ALL CONTROL WIRE SPECIFICATIONS WITH THE REFRIGERATION CONTRACTOR PRIOR TO CONSTRUCTION.

GENERAL NOTES

A. COORDINATE FINAL OUTLET LAYOUT AND MOUNTING HEIGHTS WITH MILLWORK CONTRACTOR PRIOR TO ROUGH-IN.
B. COORDINATE ALL CEILING HUNG LIGHTING AND ELECTRICAL DEVICE PLACEMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN. VERIFY LIGHTING IS NOT OBSTRUCTED BY MECHANICAL DUCTWORK OR EQUIPMENT.
C. VERIFY EXACT ELECTRICAL REQUIREMENTS OF ANY ELECTRICAL EQUIPMENT WITH MANUFACTURER'S INSTALLATION GUIDELINES PRIOR TO INSTALLATION OF EQUIPMENT. EC TO COORDINATE AND VERIFY WITH EQUIPMENT SCHEDULE.
D. ALL RECEPTACLES TO BE MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED.
E. PROVIDE TAMPER RESISTANT RECEPTACLES AS PER NEC 406.12.
F. ALL UNDERGROUND ELECTRICAL SHALL BE BURIED IN ACCORDANCE WITH NEC 300.5 UNLESS OTHERWISE NOTED. AL ELECTRICAL UNDER BUILDING SLAB SHALL BE BURIED MINIMUM 12" BELOW BOTTOM OF CONCRETE SLAB.
G. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS THAT CONDUIT IS TO BE INSTALLED WITHIN WALLS AND ABOVE CEILINGS CONCEALED WHERE POSSIBLE.

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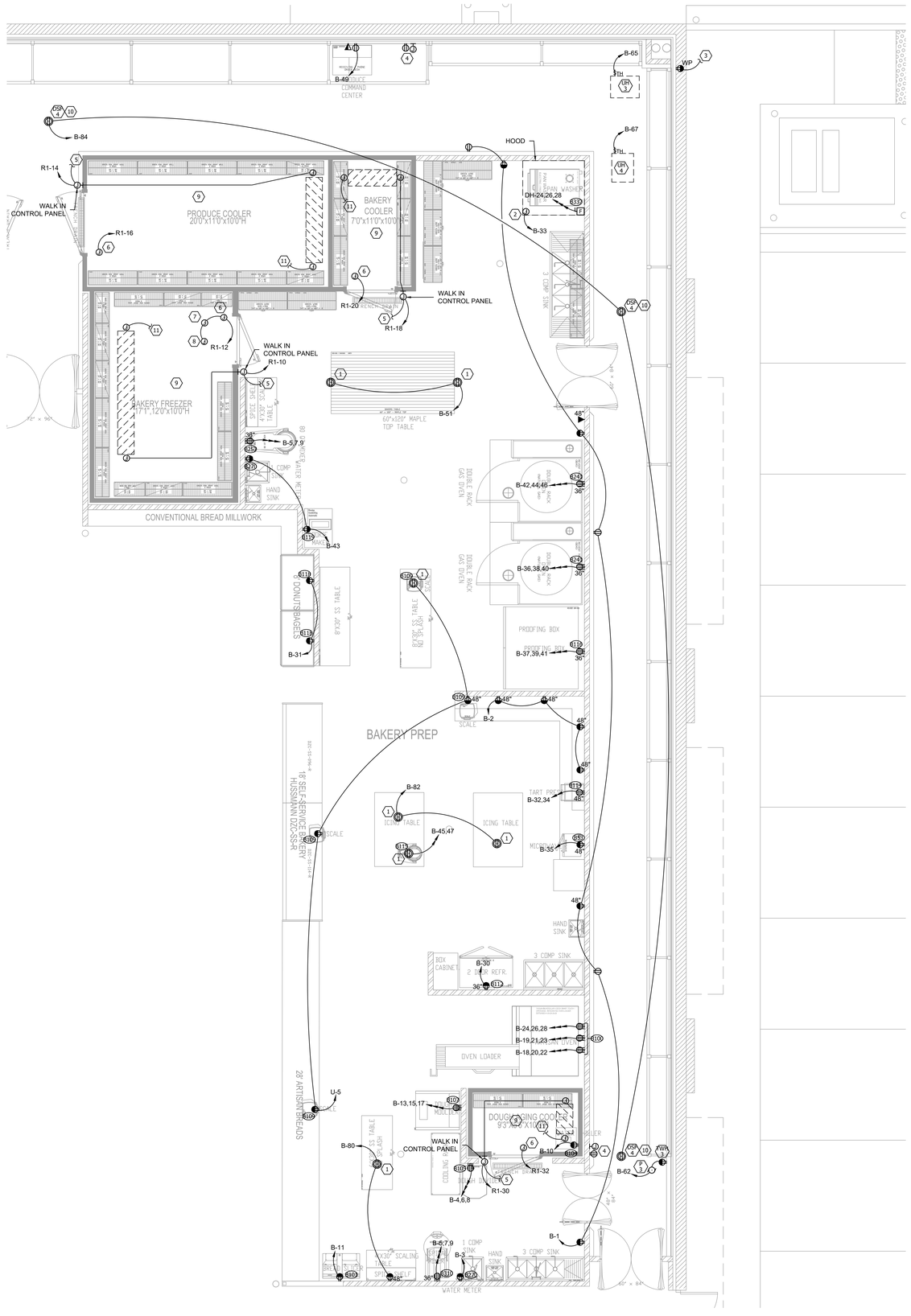
HARMONS SPANISH FORK

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

PROJECT #:	26107
SHEET SIZE:	30"x42"
DATE:	8/28/26
DRAWN BY:	NF,MS,ZF
CHECKED BY:	ES
SHEET TITLE:	

DELI POWER PLAN

E202



1 E203 ENLARGED BAKERY POWER PLAN

SCALE: 1/4" = 1'-0"

KEYED NOTES

1. PROVIDE A DUPLEX RECEPTACLE (WOODHEAD 3000 SERIES) CORD DROP ON A GFCI PROTECTED CIRCUIT. COORDINATE CORD DROP MOUNTING HEIGHT WITH THE OWNER PRIOR TO INSTALLATION. REFER TO THE CORD DROP DETAIL 1/E501 FOR MORE INFORMATION.
2. PROVIDE A DEDICATED CIRCUIT FOR HOOD LIGHTING AND CONTROLS. EC TO PROVIDE ALL CONDUIT AND WIRING REQUIRED FOR HOOD CONTROLS WHICH MAY INCLUDE GAS SHUT-OFF VALVE, ROOM TEMPERATURE SENSORS, DUCT SENSORS, ETC. COORDINATE WITH THE CAPTIVE AIRE DRAWINGS FOR MORE INFORMATION.
3. CIRCUIT TO EXTERIOR RECEPTACLE CIRCUIT 'ML-28'.
4. EVAP COOLER CONTROLS. PROVIDE (1) 3/4"C WITH (6) #12 AWG CONTROL CONDUCTORS FROM CORRESPONDING SWAMP COOL TO THIS LOCATION. PROVIDE A DUPLEX RECEPTACLE FOR CONTROL PANEL POWER. CIRCUIT CONTROL PANEL TO THE EVAP COOLER PUMP CIRCUIT (SEE ROOF PLAN 1/E207). SEE MANUFACTURERS WIRING DIAGRAM FOR MORE INFORMATION.
5. PROVIDE (1) 1"C WITH (1) BELDEN #8761 CABLE, (1) ECHELON COMMUNICATION CABLE, (1) 18/4 SHIELDED CABLE AND (1) 18/2 SHIELDED CABLE BACK TO THE REFRIGERATION RACK CPU. DO NOT INCLUDE WIRING IN HIGH VOLTAGE CONDUITS. WIRE SIZE AND QUANTITIES ARE SUBJECT TO CHANGE, VERIFY ALL CONTROL WIRE SPECIFICATIONS WITH THE REFRIGERATION CONTRACTOR PRIOR TO CONSTRUCTION.
6. PROVIDE A DEDICATED 20A CIRCUIT FOR REFRIGERATION EQUIPMENT LIGHTING & CONTROLS. COORDINATE CONNECTION REQUIREMENTS WITH REFRIGERATION EQUIPMENT INSTALLER.
7. CIRCUIT FREEZER CONTROL CIRCUIT TO DOOR HEAT STRIP COORDINATE WITH EQUIPMENT INSTALLER.
8. EC TO PROVIDE HEAT TRACE ALONG FAN CONDENSATE LINES. PROVIDE A RAYCHEM 11W/LF HEAT TRACE SYSTEM. CIRCUIT TO REFRIGERATION EQUIPMENT CONTROL CIRCUIT.
9. ALL CONDUIT PENETRATIONS THROUGH INSULATED REFRIGERATOR WALLS SHALL BE CAULKED AND SEALED. PROVIDE CONDUIT SEALS TO LIMIT CONDENSATION.
10. PROVIDE A DUPLEX RECEPTACLE MOUNTED WITHIN CEILING FOR DESTRATIFICATION FAN. PROVIDE (1) 3/4"C FROM FAN TO SPEED CONTROLLER LOCATED IN DSD OFFICE (SEE E204). COORDINATE FINAL LOCATION WITH THE MECHANICAL CONTRACTOR.
11. PROVIDE (1) 1"C WITH (1) 3-CONDUCTOR BELDEN #8761 CABLE, (2) 2-CONDUCTOR BELDEN #8761 CABLE, (2) 14/2 SHIELDED CABLE AND (2) 2-CONDUCTOR BELDEN #8761 CABLE (ONLY FOR FREEZER DEFROST PROBE) BACK TO THE WALK IN CONTROL PANEL. DO NOT INCLUDE WIRING IN HIGH VOLTAGE CONDUITS. WIRE SIZE AND QUANTITIES ARE SUBJECT TO CHANGE, VERIFY ALL CONTROL WIRE SPECIFICATIONS WITH THE REFRIGERATION CONTRACTOR PRIOR TO CONSTRUCTION.

GENERAL NOTES

A. COORDINATE FINAL OUTLET LAYOUT AND MOUNTING HEIGHTS WITH MILLWORK CONTRACTOR PRIOR TO ROUGH-IN.
B. COORDINATE ALL CEILING HUNG LIGHTING AND ELECTRICAL DEVICE PLACEMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN. VERIFY LIGHTING IS NOT OBSTRUCTED BY MECHANICAL DUCTWORK OR EQUIPMENT.
C. VERIFY EXACT ELECTRICAL REQUIREMENTS OF ANY ELECTRICAL EQUIPMENT WITH MANUFACTURER'S INSTALLATION GUIDELINES PRIOR TO INSTALLATION OF EQUIPMENT. EC TO COORDINATE AND VERIFY WITH EQUIPMENT SCHEDULE.
D. ALL RECEPTACLES TO BE MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED.
E. PROVIDE TAMPER RESISTANT RECEPTACLES AS PER NEC 406.12.
F. ALL UNDERGROUND ELECTRICAL SHALL BE BURIED IN ACCORDANCE WITH NEC 300.5 UNLESS OTHERWISE NOTED. AL ELECTRICAL UNDER BUILDING SLAB SHALL BE BURIED MINIMUM 12" BELOW BOTTOM OF CONCRETE SLAB.
G. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS THAT CONDUIT IS TO BE INSTALLED WITHIN WALLS AND ABOVE CEILINGS CONCEALED WHERE POSSIBLE.

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ERIC D. SMITH
08/28/26
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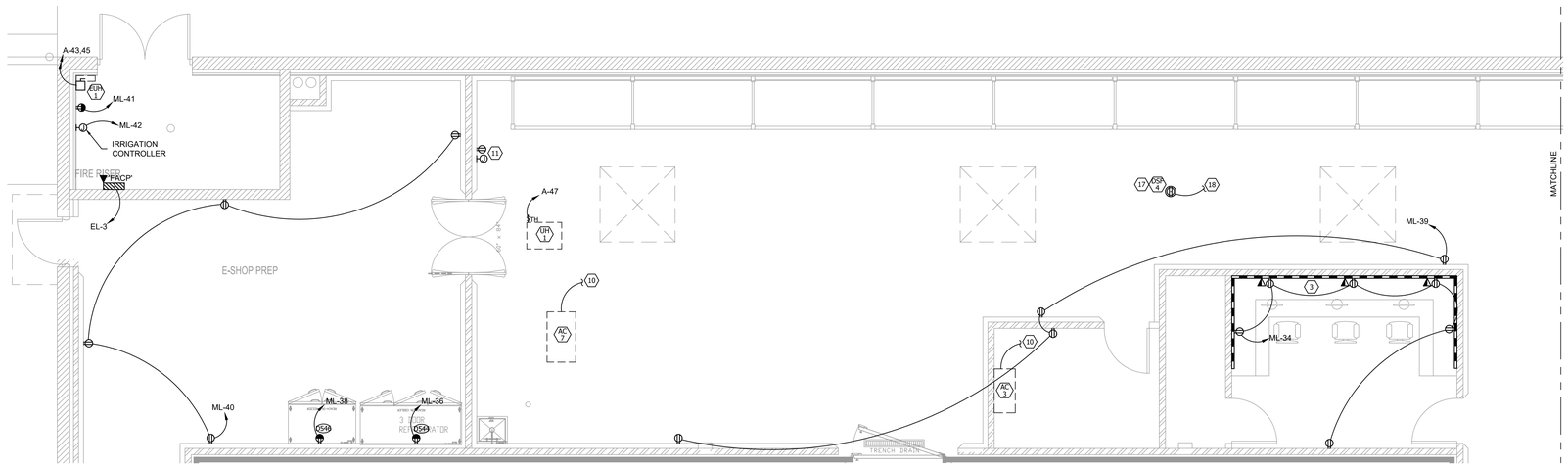
HARMONS SPANISH FORK

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

PROJECT #:	26107
SHEET SIZE:	30"x42"
DATE:	8/28/26
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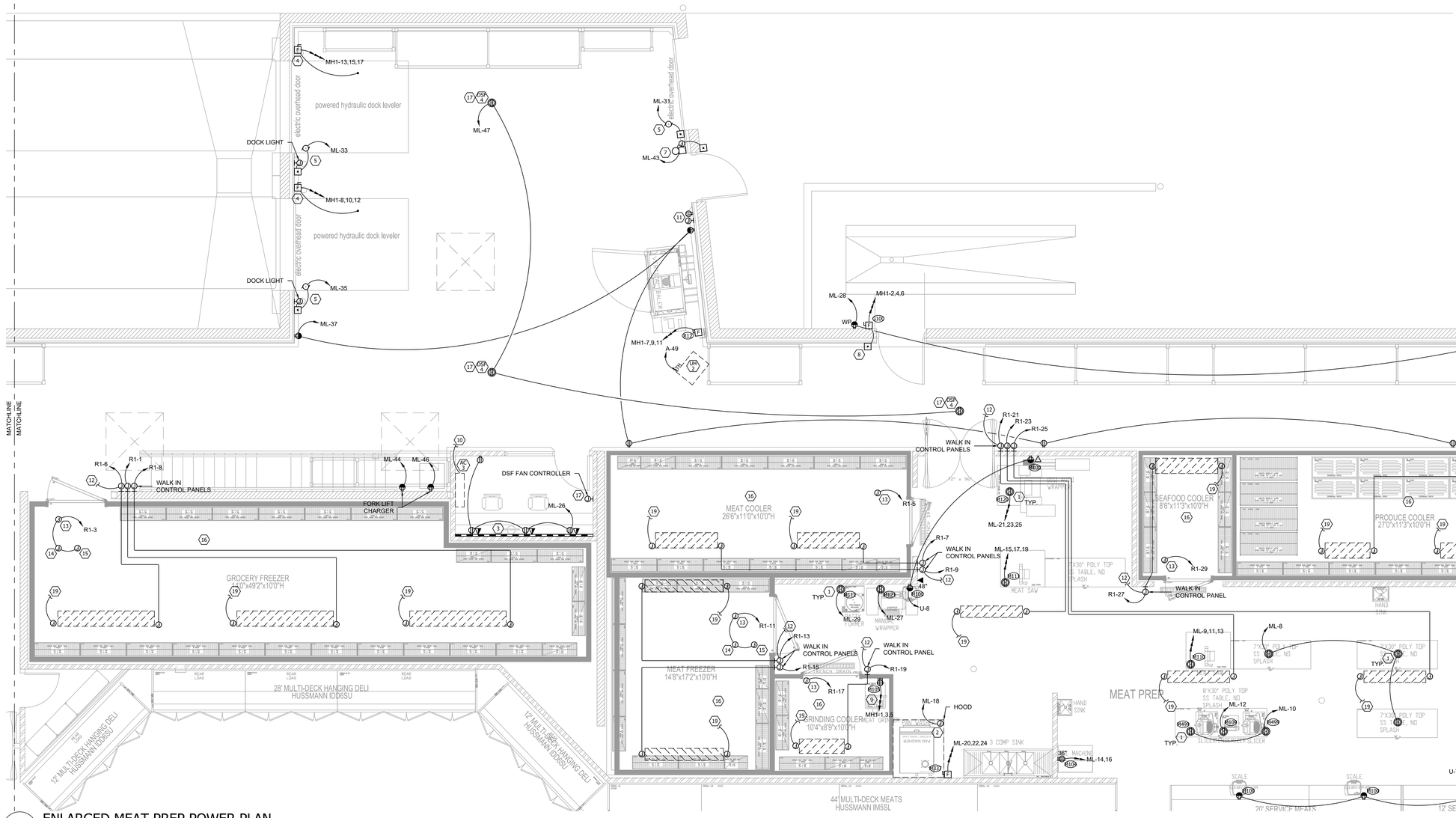
BAKERY POWER PLAN

E203



1 E204 ENLARGED DAIRY COOLER POWER PLAN

SCALE: 1/4" = 1'-0"



2 E204 ENLARGED MEAT PREP POWER PLAN

SCALE: 1/4" = 1'-0"

GENERAL NOTES

A. COORDINATE FINAL OUTLET LAYOUT AND MOUNTING HEIGHTS WITH MILLWORK CONTRACTOR PRIOR TO ROUGH-IN.
B. COORDINATE ALL CEILING HUNG LIGHTING AND ELECTRICAL DEVICE PLACEMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN. VERIFY LIGHTING IS NOT OBSTRUCTED BY MECHANICAL DUCTWORK OR EQUIPMENT.
C. VERIFY EXACT ELECTRICAL REQUIREMENTS OF ANY ELECTRICAL EQUIPMENT WITH MANUFACTURER'S INSTALLATION GUIDELINES PRIOR TO INSTALLATION OF EQUIPMENT. EC TO COORDINATE AND VERIFY WITH EQUIPMENT SCHEDULE.
D. ALL RECEPTACLES TO BE MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED.
E. PROVIDE TAMPER RESISTANT RECEPTACLES AS PER NEC 406.12.
F. ALL UNDERGROUND ELECTRICAL SHALL BE BURIED IN ACCORDANCE WITH NEC 300.5 UNLESS OTHERWISE NOTED. AL ELECTRICAL UNDER BUILDING SLAB SHALL BE BURIED MINIMUM 12" BELOW BOTTOM OF CONCRETE SLAB.
G. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS THAT CONDUIT IS TO BE INSTALLED WITHIN WALLS AND ABOVE CEILINGS CONCEALED WHERE POSSIBLE.

(#) KEYED NOTES

1. PROVIDE A DUPLEX RECEPTACLE (WOODHEAD 3000 SERIES) CORD DROP ON A GFCI PROTECTED CIRCUIT. COORDINATE CORD DROP MOUNTING HEIGHT WITH THE OWNER PRIOR TO INSTALLATION. REFER TO THE CORD DROP DETAIL 1/E501 FOR MORE INFORMATION.
2. PROVIDE A DEDICATED CIRCUIT FOR HOOD LIGHTING AND CONTROLS. EC TO PROVIDE ALL CONDUIT AND WIRING REQUIRED FOR HOOD CONTROLS WHICH MAY INCLUDE GAS SHUT-OFF VALVE, ROOM TEMPERATURE SENSORS, DUCT SENSORS, ETC. COORDINATE WITH THE CAPTIVE AIRE DRAWINGS FOR MORE INFORMATION.
3. PROVIDE A NON-METALLIC 2-COMPARTMENT SURFACE RACEWAY, WIREMOLD 5400 SERIES OR EQUAL. MOUNT RACEWAY ABOVE COUNTER WITH POWER AND DATA OUTLETS IN LOCATIONS SHOWN.
4. COORDINATE DOCK LEVELER ELECTRICAL REQUIREMENTS WITH THE MANUFACTURERS INSTALLATION MANUAL PRIOR TO CONSTRUCTION.
5. PROVIDE ALL NECESSARY CONDUIT AND WIRING FOR THE GARAGE DOOR 3-PUSHBUTTON UP/DOWN/STOP CONTROL SWITCH. COORDINATE GARAGE DOOR INSTALLATION REQUIREMENTS WITH THE GARAGE DOOR INSTALLER.
6. PROVIDE (1) DEDICATED 120V, 20A CIRCUIT FOR THE GENERATOR BLOCK HEATER AND (1) DEDICATED 120V, 20A CIRCUIT FOR THE GENERATOR BATTERY CHARGER. COORDINATE CONNECTION LOCATION WITH THE MANUFACTURERS INSTALLATION MANUAL.
7. PROVIDE A JUNCTION BOX FOR DOORBELL TRANSFORMER CONNECTION. PROVIDE AN 18/2 -CONDUCTOR CABLE FROM THE DOORBELL CHIME TO THE DOORBELL PUSHBUTTON AND TO THE TRANSFORMER.
8. COMPACTOR CONTROL BOX. COORDINATE CONNECTION REQUIREMENTS WITH THE MANUFACTURES INSTALLATION MANUAL.
9. PROVIDE OUTLET WITH AN IN-USE COVER. COORDINATE WITH OWNER PRIOR TO ROUGH IN.
10. INDOOR SPLIT UNIT 'AC-(#)' POWERED BY CORRESPONDING ROOFTOP OUTDOOR SPLIT UNIT 'RCU-(#)'. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
11. EVAP COOLER CONTROLS. PROVIDE (1) 3/4"C WITH (6) #12 AWG CONTROL CONDUCTORS FROM CORRESPONDING SWAMP COOL TO THIS LOCATION. PROVIDE A DUPLEX RECEPTACLE FOR CONTROL PANEL POWER. CIRCUIT CONTROL PANEL TO THE EVAP COOLER PUMP CIRCUIT (SEE ROOF PLAN 1/E207). SEE MANUFACTURERS WIRING DIAGRAM FOR MORE INFORMATION.
12. PROVIDE (1) 1"C WITH (1) BELDEN #8761 CABLE, (1) ECHELON COMMUNINI CABLE, (1) 18/4 SHIELDED CABLE AND (1) 18/2 SHIELDED CABLE BACK TO THE REFRIGERATION RACK CPU. DO NOT INCLUDE WIRING IN HIGH VOLTAGE CONDUITS. WIRE SIZE AND QUANTITIES ARE SUBJECT TO CHANGE, VERIFY ALL CONTROL WIRE SPECIFICATIONS WITH THE REFRIGERATION CONTRACTOR PRIOR TO CONSTRUCTION.
13. PROVIDE A DEDICATED 20A CIRCUIT FOR REFRIGERATION EQUIPMENT LIGHTING & CONTROLS. COORDINATE CONNECTION REQUIREMENTS WITH REFRIGERATION EQUIPMENT INSTALLER.
14. CIRCUIT FREEZER CONTROL CIRCUIT TO DOOR HEAT STRIP COORDINATE WITH EQUIPMENT INSTALLER.
15. EC TO PROVIDE HEAT TRACE ALONG FAN CONDENSATE LINES. PROVIDE A RAYCHEM 11WILF HEAT TRACE SYSTEM. CIRCUIT TO REFRIGERATION EQUIPMENT CONTROL CIRCUIT.
16. ALL CONDUIT PENETRATIONS THROUGH INSULATED REFRIGERATOR WALLS SHALL BE CAULKED AND SEALED. PROVIDE CONDUIT SEALS TO LIMIT CONDENSATION.
17. PROVIDE A DUPLEX RECEPTACLE MOUNTED WITHIN CEILING FOR DESTRATIFICATION FAN. PROVIDE (1) 3/4"C FROM FAN TO SPEED CONTROLLER LOCATED IN DSD OFFICE. COORDINATE FINAL LOCATION WITH THE MECHANICAL CONTRACTOR.
18. CIRCUIT TO 'ML-47'.
19. PROVIDE (1) 1"C WITH (1) 3-CONDUCTOR BELDEN #8761 CABLE, (2) 2-CONDUCTOR BELDEN #8761 CABLE, (2) 14/2 SHIELDED CABLE AND (2) 2-CONDUCTOR BELDEN #8761 CABLE (ONLY FOR FREEZER DEFROST PROBE) BACK TO THE WALK IN CONTROL PANEL. DO NOT INCLUDE WIRING IN HIGH VOLTAGE CONDUITS. WIRE SIZE AND QUANTITIES ARE SUBJECT TO CHANGE, VERIFY ALL CONTROL WIRE SPECIFICATIONS WITH THE REFRIGERATION CONTRACTOR PRIOR TO CONSTRUCTION.

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No. 7057562-2202
ERIC D. SMITH
08/28/26
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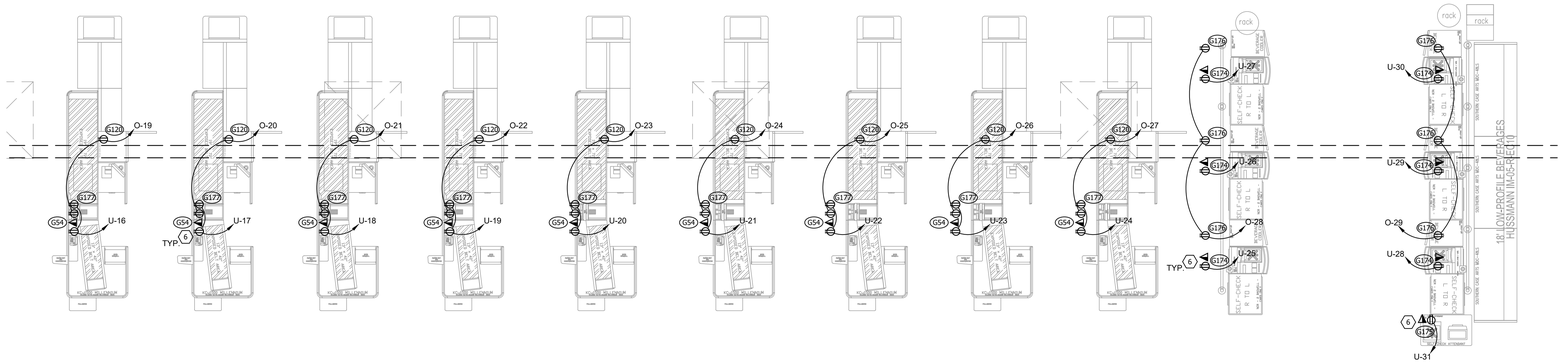
HARMONS SPANISH FORK

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

PROJECT #:	26107
SHEET SIZE:	30"x42"
DATE:	8/28/26
DRAWN BY:	NF,MS,ZF
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SHEET TITLE:	

MEAT PREP & E-SHOP PREP POWER PLAN

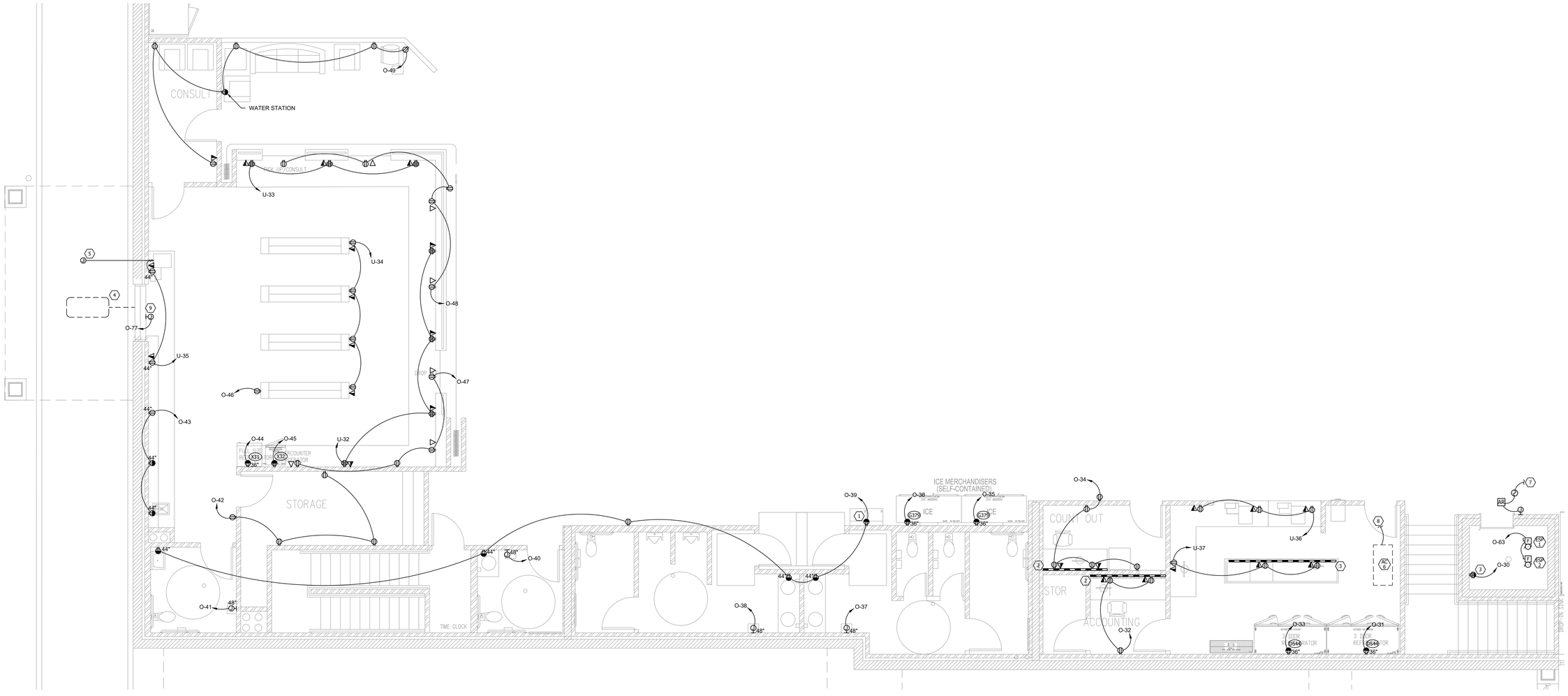
E204



1 E205

ENLARGED CHECKOUT POWER PLAN

SCALE: 1/4" = 1'-0"



2 E205

ENLARGED PHARMACY POWER PLAN

SCALE: 1/4" = 1'-0"

KEYED NOTES

1. COORDINATE DRINKING FOUNTAIN RECEPTACLE LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH IN. GFCI RECEPTACLE TO BE MOUNTED IN AN ACCESSIBLE LOCATION.
2. PROVIDE A NON-METALLIC 2-COMPARTMENT SURFACE RACEWAY, WIREMOLD 5400 SERIES OR EQUAL. MOUNT RACEWAY ABOVE COUNTER WITH POWER AND DATA OUTLETS IN LOCATIONS SHOWN.
3. PROVIDE A DEDICATED FOURPLEX GFCI RECEPTACLE WITHIN ELEVATOR PIT FOR ELEVATOR / MECHANICAL SERVICE.
4. PROVIDE (1) 1" CONDUIT EMBEDDED IN DRIVE THRU LANE AND STUBBED INTO THE DRIVE THRU WINDOW BUMP OUT FOR VEHICLE DETECTOR LOOP. CENTER CONDUIT ON DRIVE THRU WINDOW. REFER TO DRIVE-THRU SYSTEM MANUFACTURER STANDARDS & GUIDELINES FOR MORE INFO.
5. PROVIDE POWER TO DRIVE-THRU OPEN/CLOSED SIGNS. POWER FROM NEAREST RECEPTACLE CIRCUIT. REFER TO INSTALLATION DRAWINGS FOR MORE INFORMATION.
6. EC TO PULL COMM CABLE TO ALL CHECKOUT STANDS AND THE CHECKOUT ATTENDANT STAND.
7. CONTINUE A 120V CIRCUIT TO EACH ADDRESSABLE RELAY CONTROLLING ELEVATOR MAG DOOR HOLDERS ON THIS FLOOR AND TO THE ABOVE FLOORS. PROVIDE A JUNCTION BOX FOR ELEVATOR SMOKE DOOR MAGNETIC HOLDERS. COORDINATE JUNCTION BOX LOCATION WITH ELEVATOR INSTALLER. CIRCUIT TO 'EL-2'.
8. INDOOR SPLIT UNIT 'AC-(#)' POWERED BY CORRESPONDING ROOFTOP OUTDOOR SPLIT UNIT 'RCU-(#)'. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
9. POWER FOR DRIVE THRU WINDOW AND DRAWER. COORDINATE JUNCTION BOX LOCATION WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH IN.

GENERAL NOTES

A. COORDINATE FINAL OUTLET LAYOUT AND MOUNTING HEIGHTS WITH MILLWORK CONTRACTOR PRIOR TO ROUGH-IN.
B. COORDINATE ALL CEILING HUNG LIGHTING AND ELECTRICAL DEVICE PLACEMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN. VERIFY LIGHTING IS NOT OBSTRUCTED BY MECHANICAL DUCTWORK OR EQUIPMENT.
C. VERIFY EXACT ELECTRICAL REQUIREMENTS OF ANY ELECTRICAL EQUIPMENT WITH MANUFACTURER'S INSTALLATION GUIDELINES PRIOR TO INSTALLATION OF EQUIPMENT. EC TO COORDINATE AND VERIFY WITH EQUIPMENT SCHEDULE.
D. ALL RECEPTACLES TO BE MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED.
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F. ALL UNDERGROUND ELECTRICAL SHALL BE BURIED IN ACCORDANCE WITH NEC 300.5 UNLESS OTHERWISE NOTED. AL ELECTRICAL UNDER BUILDING SLAB SHALL BE BURIED MINIMUM 12" BELOW BOTTOM OF CONCRETE SLAB.
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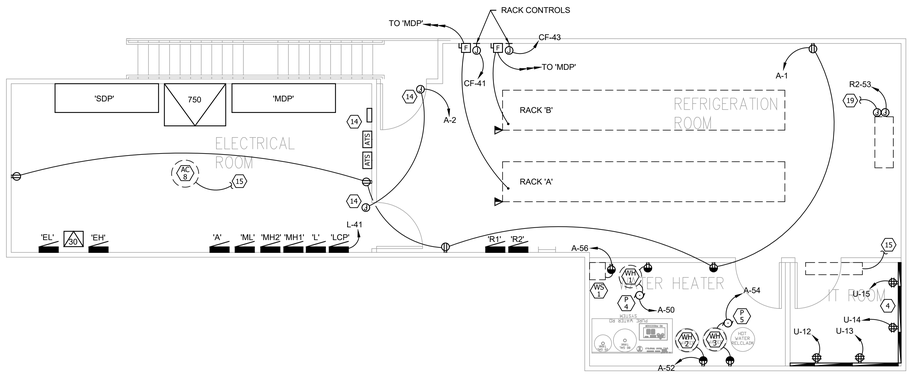
HARMONS SPANISH FORK

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

PROJECT #:	26107
SHEET SIZE:	30"x42"
DATE:	8/28/26
DRAWN BY:	NF,MS,ZF
CHECKED BY:	ES
SHEET TITLE:	

CHECKOUT & PHARMACY POWER PLAN

E205



3 E206

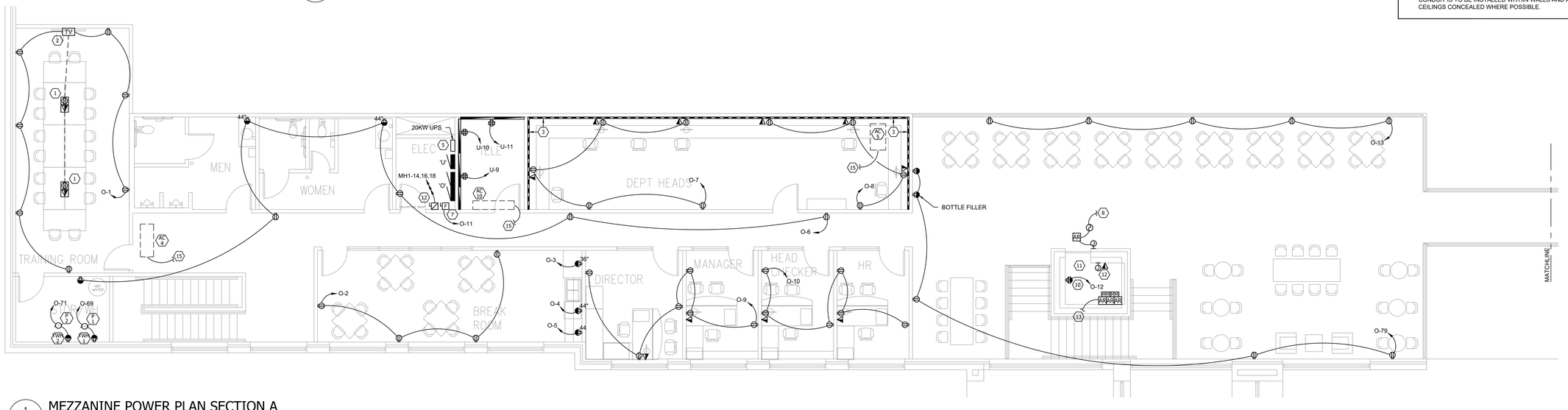
MEZZANINE ELECTRICAL ROOM POWER PLAN

SCALE: 3/16" = 1'-0"

2 E206

MEZZANINE POWER PLAN SECTION B

SCALE: 3/16" = 1'-0"



1 E206

MEZZANINE POWER PLAN SECTION A

SCALE: 3/16" = 1'-0"

KEYED NOTES

1. PROVIDE A LEGRAND AV3 SERIES FLOOR BOX WITH A DUPLEX RECEPTACLE, HDMI PORT, AND (2) DATA PORTS. PROVIDE (1) 3/4"C FOR POWER AND (1) 1-1/4"C FOR DATA CABLING. EXTEND CONDUIT UP NEAREST WALL TO AN ACCESSIBLE CEILING SPACE. SEE DETAIL 4/E501 FOR MORE INFORMATION.
2. PROVIDE A DUPLEX RECEPTACLE AND DATA OUTLET AT 60" AFF FOR TV CONNECTIONS. VERIFY EXACT MOUNTING HEIGHTS WITH OWNER PRIOR TO ROUGH IN.
3. PROVIDE A NON-METALLIC 2-COMPARTMENT SURFACE RACEWAY, WIREMOLD 5400 SERIES OR EQUAL. MOUNT RACEWAY ABOVE COUNTER WITH POWER AND DATA OUTLETS IN LOCATIONS SHOWN.
4. PROVIDE 3/4" FIRE TREATED PLYWOOD BOARDS MOUNTED AT 108" TO THE TOP OF THE BOARDS ALONG THE IT ROOM WALLS. PROVIDE QUAD RECEPTACLES AND A HUBBELL HBBB14210 (OR EQUAL) GROUNDING BUSS BAR ON THE TELEPHONE BOARD. SEE DETAIL 6/E501 FOR OTHER ELECTRICAL REQUIREMENTS.
5. COORDINATE TERMINATION REQUIREMENTS OF 20 KW, 208V 3PH RATED UPS WITH HARMON'S IT TEAM AND OWNER PRIOR TO CONSTRUCTION.
6. PROVIDE 3/4" FIRE TREATED PLYWOOD BOARDS MOUNTED AT 108" TO THE TOP OF THE BOARDS ALONG THE TELEPHONE ROOM WALLS. PROVIDE QUAD RECEPTACLES AND A HUBBELL HBBB14210 (OR EQUAL) GROUNDING BUSS BAR ON THE TELEPHONE BOARD. PROVIDE (2) 2"C WITH PULL-STRING TO THE BUILDING TELECOMMUNICATIONS BOARD IN THE ELECTRICAL CLOSET. SEE DETAIL 6/E501 FOR OTHER ELECTRICAL REQUIREMENTS.
7. PROVIDE A FUSED DISCONNECT WITH FUSES RATED AT 15A FOR ELEVATOR CAB LIGHTING.
8. CONTINUE A 120V CIRCUIT TO EACH ADDRESSABLE RELAY CONTROLLING ELEVATOR MAG DOOR HOLDERS ON THIS FLOOR AND TO THE ABOVE FLOORS. PROVIDE A JUNCTION BOX FOR ELEVATOR SMOKE DOOR MAGNETIC HOLDERS. COORDINATE JUNCTION BOX LOCATION WITH ELEVATOR INSTALLER. CIRCUIT TO 'EL-2'.
9. PROVIDE A 120V CIRCUIT TO A JUNCTION BOX FOR ELECTRICAL ROOM DOOR PANIC HARDWARE.
10. PROVIDE A DEDICATED FOURPLEX GFCI RECEPTACLE WITHIN ELEVATOR SHAFT FOR ELEVATOR / MECHANICAL SERVICE.
11. COORDINATE ALL ELEVATOR ELECTRICAL EQUIPMENT LOCATIONS WITH ELEVATOR INSTALLER PRIOR TO CONSTRUCTION.
12. PROVIDE A SHUNT TRIP DISCONNECT FOR ELEVATOR OVERCURRENT PROTECTION. EXTEND CIRCUIT TO THE ELEVATOR CONTROL PANEL LOCATED IN THE ELEVATOR DOOR JAMB. COORDINATE CONNECTION REQUIREMENTS WITH THE ELEVATOR INSTALLER.
13. PROVIDE A 120V CIRCUIT TO EACH ADDRESSABLE RELAY AND MONITOR MODULE FOR ELEVATOR SHUNT TRIP POWER MONITORING AND CONTROLS. THE RELAYS ON THIS FLOOR ARE TO BE CONTROLLED FROM THE SYSTEM SLC LOOP ON THIS FLOOR. CIRCUIT TO 'EL-1'. PROVIDE A 12/2 CONTROL LOOP BETWEEN THE ADDRESSABLE RELAY AND ELEVATOR SHUNT TRIP DISCONNECT. COORDINATE WITH THE FIRE ALARM CONTRACTOR.
14. POWER FOR DELAYED EGRESS. EC TO MAKE ALL CONNECTIONS. REFER TO TO THE MANUFACTURER INSTALLATION REQUIREMENTS FOR MORE INFORMATION. CIRCUIT TO 'A-3'.
15. INDOOR SPLIT UNIT 'AC-(#)' POWERED BY CORRESPONDING ROOFTOP OUTDOOR SPLIT UNIT 'RCU-(#)'. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
16. PROVIDE A 48 CIRCUIT LIGHTING CONTROL PANEL WITH AN INTERNAL LCD SCREEN USER INTERFACE. THE PANEL WILL SHALL HAVE A MINIMUM 7-DAY ASTRONOMIC CLOCK, WITH 7 DIFFERENT DAY TYPES PER WEEK, AND THE ABILITY TO INCORPORATE AN AUTOMATIC HOLIDAY SHUTOFF.
17. PROVIDE A 3-POLE CONTACTOR TO INTERCEPT THE PANEL CL FEEDERS TO CONTROL THE ENTIRE PANEL. PROVIDE A 12/2 CONTROL CIRCUIT TO THE LIGHTING CONTROL PANEL RELAY LCP-44.
18. GENERATOR REMOTE ANNUNCIATOR. PROVIDE (2) #16 AWG CU CONDUCTORS IN (1) 3/4"C, AND (1) 3/4"C WITH A CAT6 CONDUCTOR FROM THE GENERATOR TO THE ANNUNCIATOR. COORDINATE FURTHER REQUIREMENTS WITH THE GENERATOR INSTALLER.
19. PROVIDE (1) 1"C WITH (1) BELDEN #8761 CABLE, (1) ECHELON COMMUNICATION CABLE, (1) 18/4 SHIELDED CABLE AND (1) 18/2 SHIELDED CABLE BACK TO THE REFRIGERATION RACK CPU. DO NOT INCLUDE WIRING IN HIGH VOLTAGE CONDUITS. WIRE SIZE AND QUANTITIES ARE SUBJECT TO CHANGE, VERIFY ALL CONTROL WIRE SPECIFICATIONS WITH THE REFRIGERATION CONTRACTOR PRIOR TO CONSTRUCTION.

GENERAL NOTES

A. COORDINATE FINAL OUTLET LAYOUT AND MOUNTING HEIGHTS WITH MILLWORK CONTRACTOR PRIOR TO ROUGH-IN.
B. COORDINATE ALL CEILING HUNG LIGHTING AND ELECTRICAL DEVICE PLACEMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN. VERIFY LIGHTING IS NOT OBSTRUCTED BY MECHANICAL DUCTWORK OR EQUIPMENT.
C. VERIFY EXACT ELECTRICAL REQUIREMENTS OF ANY ELECTRICAL EQUIPMENT WITH MANUFACTURER'S INSTALLATION GUIDELINES PRIOR TO INSTALLATION OF EQUIPMENT. EC TO COORDINATE AND VERIFY WITH EQUIPMENT SCHEDULE.
D. ALL RECEPTACLES TO BE MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED.
E. PROVIDE TAMPER RESISTANT RECEPTACLES AS PER NEC 406.12.
F. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS THAT CONDUIT IS TO BE INSTALLED WITHIN WALLS AND ABOVE CEILINGS CONCEALED WHERE POSSIBLE.

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REVISIONS		
MARK	DATE	DESCRIPTION
-	08/28/26	PERMIT SET



HARMONS SPANISH FORK

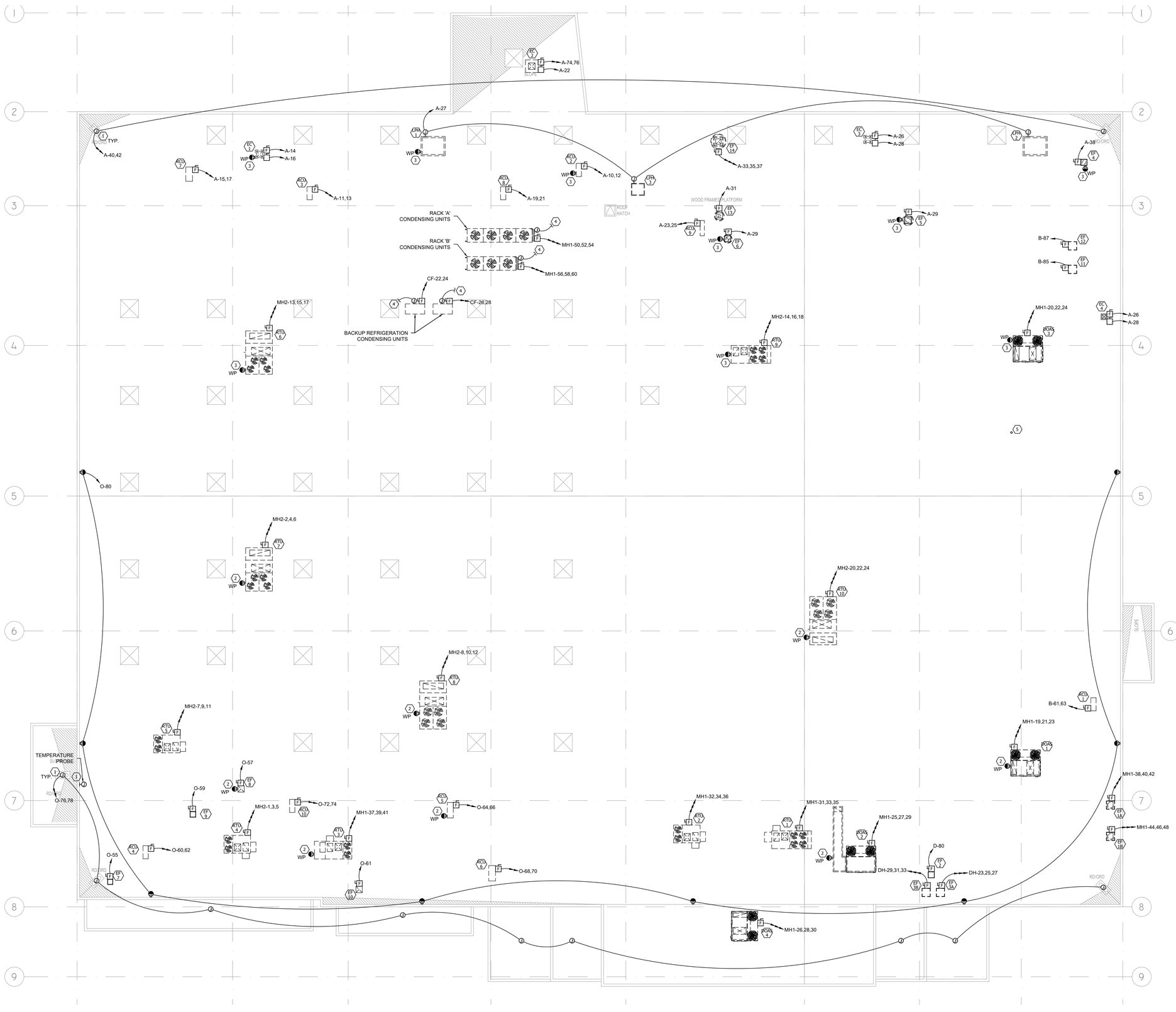
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SHEET TITLE:

MEZZANINE POWER PLAN

E206



KEYED NOTES

1. PROVIDE AN ICE/SNOW MELT SYSTEM AS MANUFACTURED BY RAYCHEM (OR EQUAL) TO ALL ROOF, PATIO AND CANOPY DRAINS. HEAT TAPE SHALL BE SELF-REGULATING 12W/LF AT 208V, CONTROLLED FROM BOTH MOISTURE AND TEMPERATURE SENSORS LOCATED ON BACK OF ROOFTOP PARAPET WALL. PROVIDE A WEATHER PROOF BELL BOX AT EACH ROOF DRAIN FOR HEAT TRACE TERMINATIONS. EXTEND 48" OF HEAT TRACE AND END SEAL TERMINATION KIT INTO EACH ROOF DRAIN. PROVIDE A 7' LOOP AT EACH VALLEY PER MANUFACTURER'S GUIDELINES (MAX 30' OF HEAT TRACE AT EACH ROOF DRAIN). MOUNT THE HEAT TRACE CONTROLLER IN THE BUILDING ELECTRICAL CLOSET (3/E206).
2. CIRCUIT TO ROOFTOP RECEPTACLE CIRCUIT 'O-82'.
3. CIRCUIT TO ROOFTOP RECEPTACLE CIRCUIT 'A-41'
4. PROVIDE A 3/4"C WITH A BELDON #8761 CABLE FROM CONDENSING UNIT TO CORRESPONDING REFRIGERATION RACK.
5. PROVIDE (1) 2"C STUB FROM 'SES' TO ROOFTOP FOR SOLAR CONNECTION (BY OTHERS). PROVIDE PULL STRING AND CAP.

GENERAL NOTES

A. EC SHALL ENSURE THAT HORN STROBE SPACING PROVIDES 15db THROUGHOUT SPACE. ANY ADDITIONAL HORN STROBES REQUIRED BY FIRE MARSHALL SHALL BE PROVIDED AT THE COST OF THE GENERAL CONTRACTOR.
B. ALL UNDERGROUND ELECTRICAL SHALL BE BURIED IN ACCORDANCE WITH NEC 300.5 UNLESS OTHERWISE NOTED. ALL ELECTRICAL UNDER BUILDING SLAB SHALL BE BURIED MINIMUM 12" BELOW BOTTOM OF CONCRETE SLAB.
C. ALL CABLING ROUTED THROUGH PLENUM SPACES TO BE PLENUM RATED. VERIFY WITH ARCHITECT PRIOR TO CONSTRUCTION.
D. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS THAT CONDUIT IS TO BE INSTALLED WITHIN WALLS AND ABOVE CEILINGS CONCEALED WHERE POSSIBLE.

2 E207 ROOF POWER PLAN

SCALE: 3/32" = 1'-0"

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REVISIONS

MARK	DATE	DESCRIPTION
-	08/28/26	PERMIT SET

PROFESSIONAL ENGINEER
No. 705562-2202
ERIC D. SMITH
08/28/26
STATE OF UTAH

HARMONS SPANISH FORK

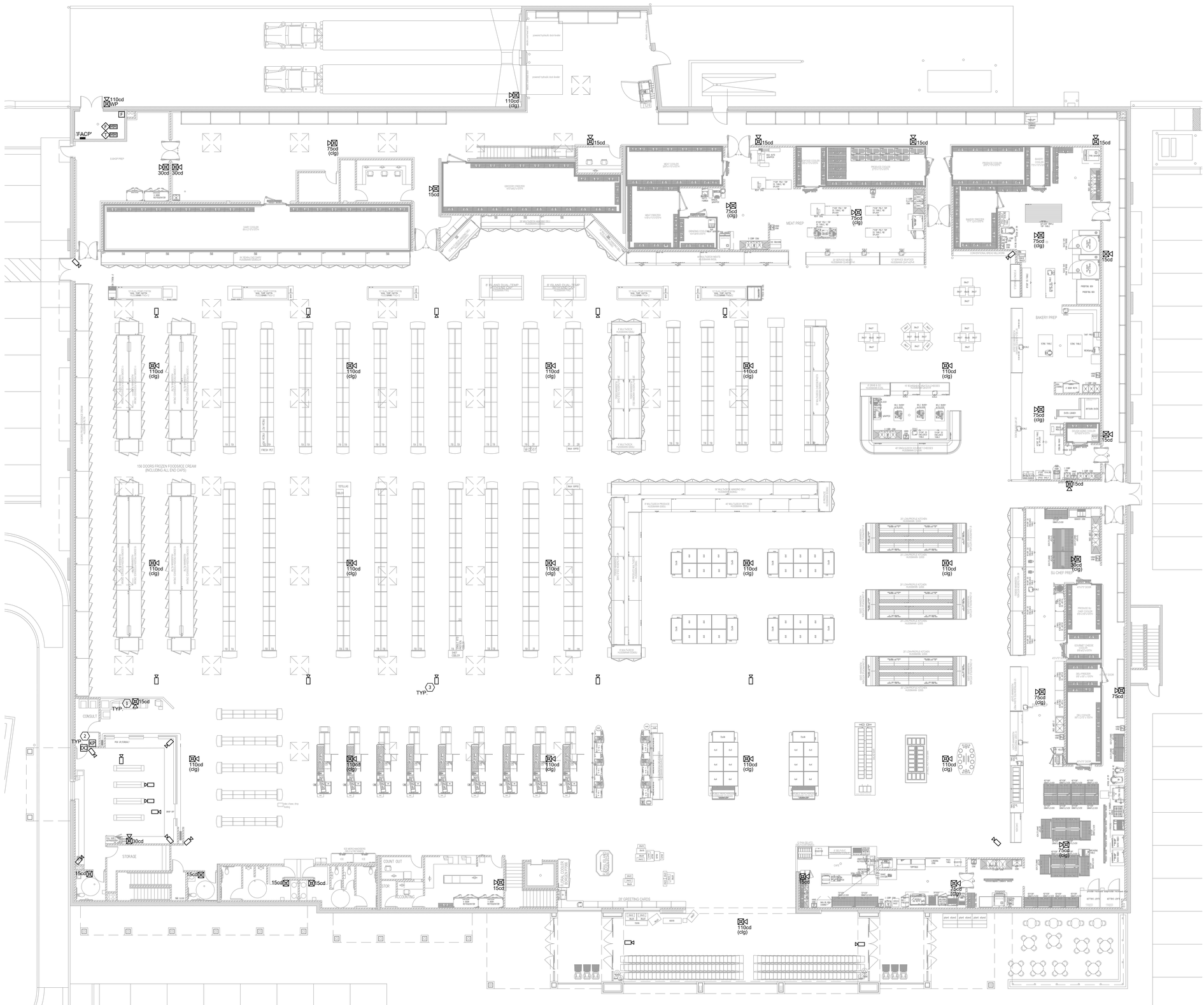
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CHECKED BY:	ES

SHEET TITLE:

ROOF POWER PLAN

E207



KEYED NOTES

1. WALL MOUNTED HORN STROBES TO BE NO LOWER THAN 80" AFF TO BOTTOM OF FIXTURE AND NO HIGHER THAN 96" TO TOP OF FIXTURE. SEE FIRE ALARM RISER DIAGRAM FOR MORE INFORMATION.
2. REFER TO TYPICAL CARD READER DETAIL 4/E501 FOR INSTALLATION GUIDELINES.
3. PROVIDE (1) 3/4"C BACK TO SECURITY HEAD END. COORDINATE LOCATION WITH SECURITY SYSTEM INSTALLER.

GENERAL NOTES

A. EC SHALL ENSURE THAT HORN STROBE SPACING PROVIDES 15db THROUGHOUT SPACE. ANY ADDITIONAL HORN STROBES REQUIRED BY FIRE MARSHALL SHALL BE PROVIDED AT THE COST OF THE GENERAL CONTRACTOR.
B. ALL UNDERGROUND ELECTRICAL SHALL BE BURIED IN ACCORDANCE WITH NEC 300.5 UNLESS OTHERWISE NOTED. ALL ELECTRICAL UNDER BUILDING SLAB SHALL BE BURIED MINIMUM 12" BELOW BOTTOM OF CONCRETE SLAB.
C. ALL CABLING ROUTED THROUGH PLENUM SPACES TO BE PLENUM RATED. VERIFY WITH ARCHITECT PRIOR TO CONSTRUCTION.
D. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS THAT CONDUIT IS TO BE INSTALLED WITHIN WALLS AND ABOVE CEILINGS CONCEALED WHERE POSSIBLE.

1 E301 MAIN FLOOR SYSTEMS PLAN

SCALE: 3/32" = 1'-0"

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ERIC D. SMITH
08/28/26
STATE OF UTAH

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CHECKED BY:	ES
SHEET TITLE:	

MAIN FLOOR SYSTEMS PLAN

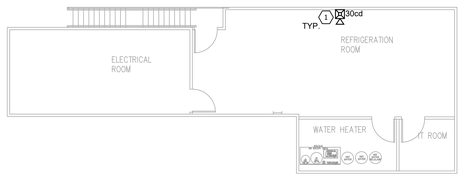
E301

KEYED NOTES

1. WALL MOUNTED HORN STROBES TO BE NO LOWER THAN 80" AFF TO BOTTOM OF FIXTURE AND NO HIGHER THAN 96" TO TOP OF FIXTURE. SEE FIRE ALARM RISER DIAGRAM FOR MORE INFORMATION.
2. PROVIDE (1) 3/4"C BACK TO SECURITY HEAD END. COORDINATE LOCATION WITH SECURITY SYSTEM INSTALLER.

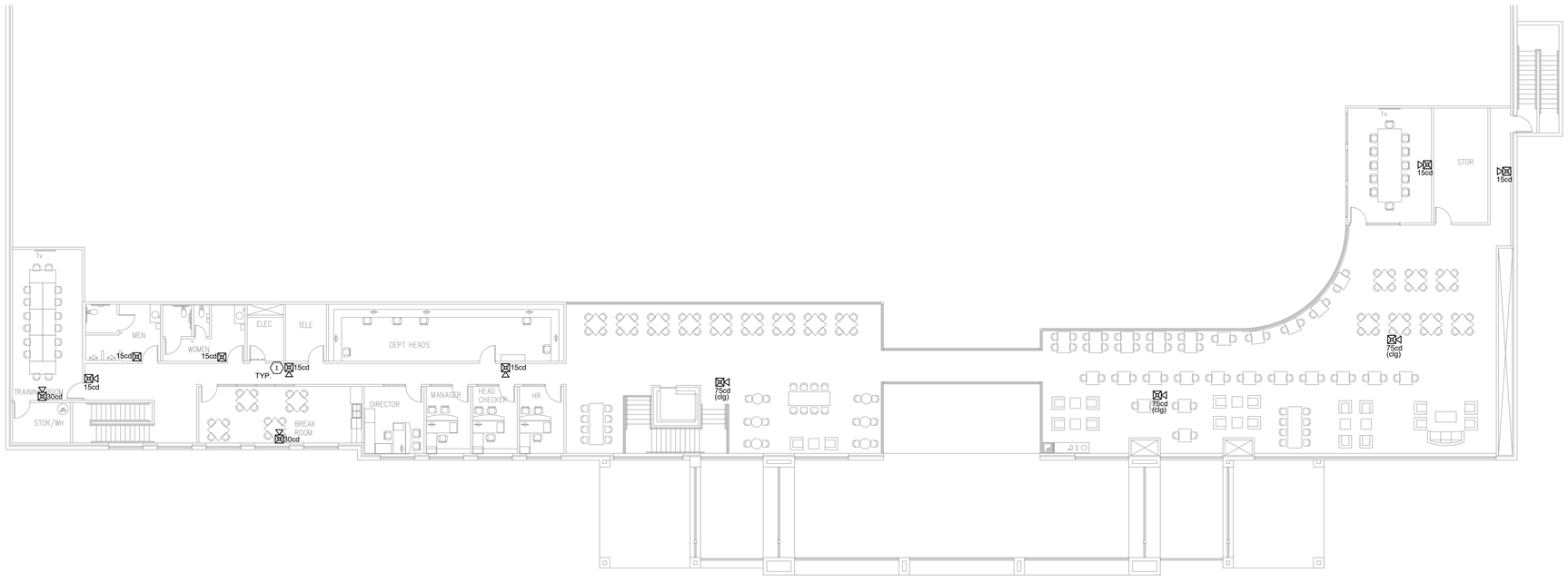
GENERAL NOTES

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B. ALL UNDERGROUND ELECTRICAL SHALL BE BURIED IN ACCORDANCE WITH NEC 300.5 UNLESS OTHERWISE NOTED. ALL ELECTRICAL UNDER BUILDING SLAB SHALL BE BURIED MINIMUM 12" BELOW BOTTOM OF CONCRETE SLAB.
C. ALL CABLING ROUTED THROUGH PLENUM SPACES TO BE PLENUM RATED. VERIFY WITH ARCHITECT PRIOR TO CONSTRUCTION.
D. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS THAT CONDUIT IS TO BE INSTALLED WITHIN WALLS AND ABOVE CEILINGS CONCEALED WHERE POSSIBLE.



2 E302 ELECTRICAL ROOM SYSTEMS PLAN

SCALE: 3/32" = 1'-0"



1 E302 MEZZANINE SYSTEMS PLAN

SCALE: 3/32" = 1'-0"

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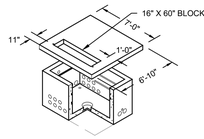
SHEET TITLE:

MEZZANINE SYSTEMS PLAN

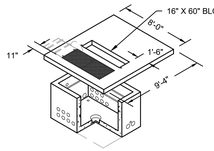
E302

OPTIONAL TOPS

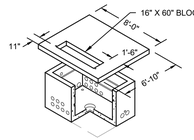
2.4 - 25kV, 3-PHASE TRANSFORMER PADVAULT WITHOUT ACCESS
PCORP #7992601 - SI #1790024
2.4 - 25kV, 3-PHASE TRANSFORMER PAD ONLY (NO BASE)
PCORP #1790021 3,090 LBS



35kV, 3-PHASE TRANSFORMER PADVAULT WITH ACCESS
PCORP #7992602 - SI #1008977 4,350 LBS.



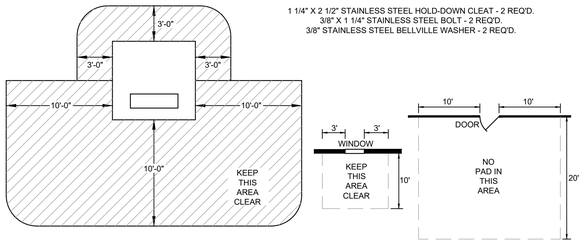
35kV, 3-PHASE TRANSFORMER PADVAULT WITHOUT ACCESS
PCORP #7992603 - SI #1008975
35kV, 3-PHASE TRANSFORMER PAD ONLY (NO BASE)
PCORP #1008958 3,600 LBS.



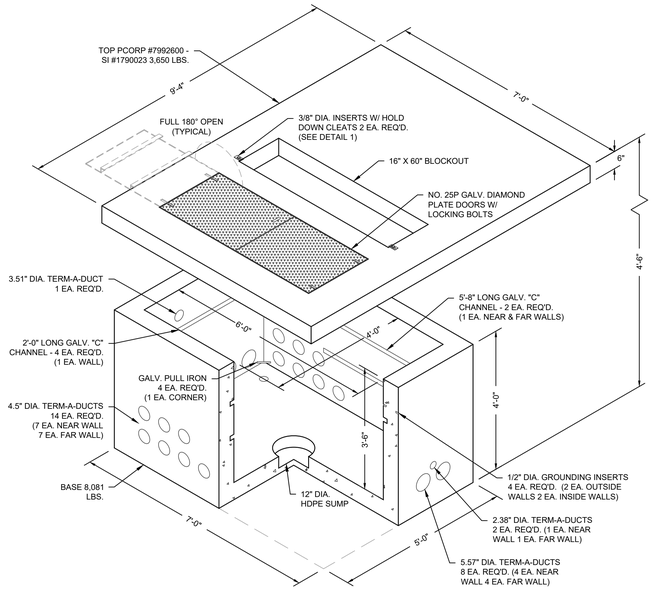


HOLD DOWN CLEAT
DETAIL 1

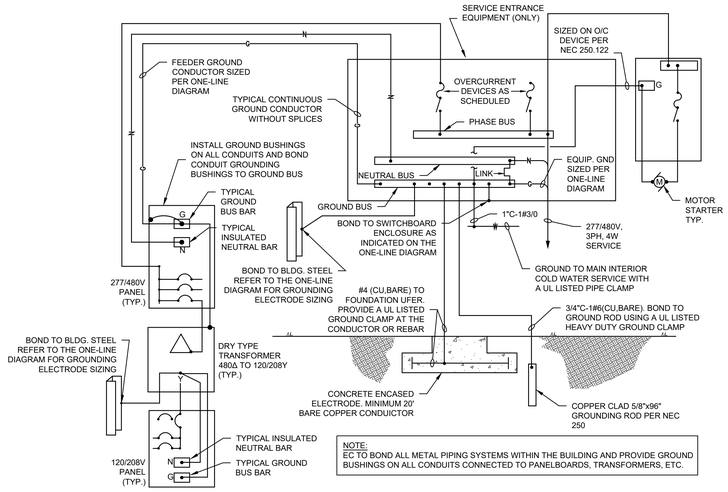
1 1/4" X 2 1/2" STAINLESS STEEL HOLD-DOWN CLEAT - 2 REQ'D.
3/8" X 1 1/4" STAINLESS STEEL BOLT - 2 REQ'D.
3/8" STAINLESS STEEL BELLVILLE WASHER - 2 REQ'D.



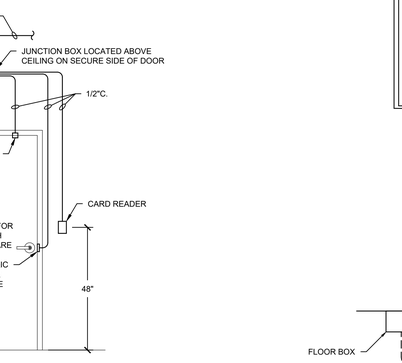
2.4 - 25kV, 3-PHASE TRANSFORMER PADVAULT WITH ACCESS, STOCK ITEM 7992600 - STOCK ITEM 1790023
2.4 - 25kV, 3-PHASE TRANSFORMER PADVAULT WITHOUT ACCESS, STOCK ITEM 7992601 - STOCK ITEM 1790024
2.4 - 25kV, 3-PHASE TRANSFORMER PAD - STOCK ITEM 1790021
35kV, 3-PHASE TRANSFORMER PADVAULT WITH ACCESS, STOCK ITEM 7992602 - STOCK ITEM 1008977
35kV, 3-PHASE TRANSFORMER PADVAULT WITHOUT ACCESS, STOCK ITEM 7992603 - STOCK ITEM 1008975
35kV, 3-PHASE TRANSFORMER PAD - STOCK ITEM 1008958



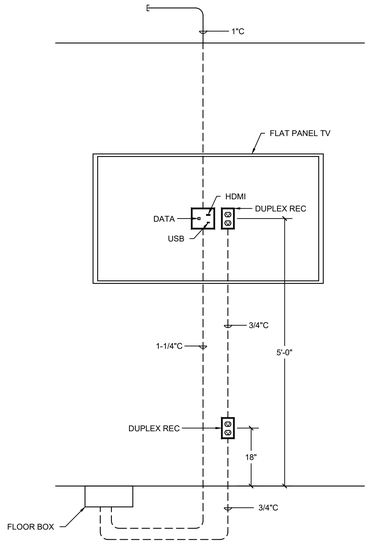
1 E501 RMP TRANSFORMER PAD VAULT DETAILS
NO SCALE



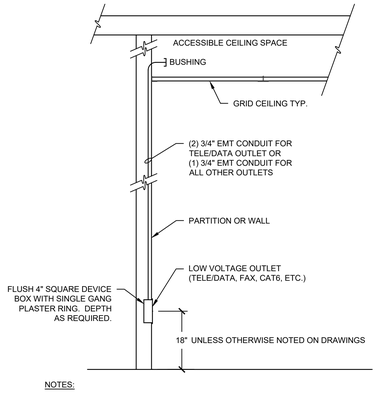
2 E501 TYPICAL GROUNDING/BONDING DETAIL
NO SCALE



3 E501 TYPICAL DOOR ACCESS CONTROL ROUGH-IN
NO SCALE



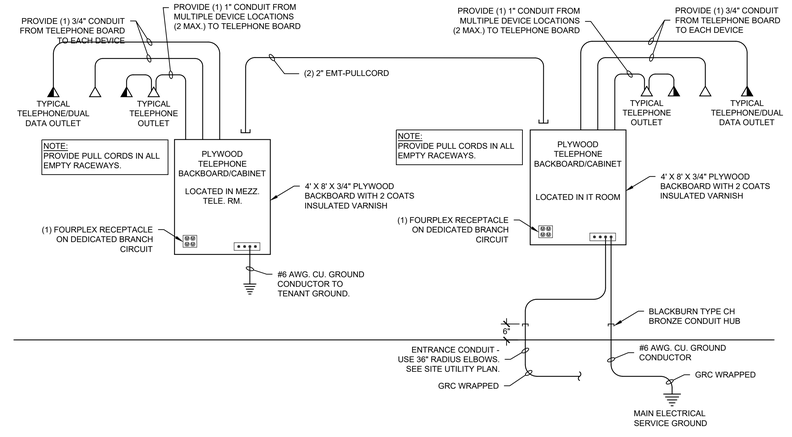
4 E501 TV ROUGH-IN DETAIL
NO SCALE



NOTES:

1. WIRING TO BE RUN ABOVE ACCESSIBLE CEILINGS IN A WORKMANLIKE MANNER. SUPPORT CABLES FROM STRUCTURE EVERY SIX FEET MIN. USING 'J' HOOKS, BRIDAL RINGS, OR OTHER APPROVED METHODS.
2. WHERE SPACE ABOVE THE CEILING IS BEING USED AS A RETURN AIR PLENUM, ALL CABLING NOT INSTALLED WITHIN CONDUIT SHALL BE PLENUM RATED.

5 E501 LOW VOLTAGE OUTLET DETAIL
NO SCALE



6 E501 TYPICAL TELECOM RISER DIAGRAM
NO SCALE

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ERIC D. SMITH
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ELECTRICAL DETAILS

E501

EQUIPMENT SCHEDULE

MARK	DESCRIPTION	ELECTRICAL V	PH	KW	HP	MCA	FLA	MOCP	CONDUIT SIZE	WIRE QTY.	WIRE SIZE	GND. SIZE	STARTER NEMA SIZE	OVERCURRENT PROTECTION DISCONNECT SIZE/POLE	FUSE SIZE	REMARKS
EUH-1	ELECTRIC UNIT HEATER	208	1				14.4	20	3/4"	2	12	12	-	30/2	-	2A
DSF-1	DESTRAT FAN	120	1				0.3	20	3/4"	2	12	12	-	-	-	12A
DSF-2	DESTRAT FAN	120	1				0.3	20	3/4"	2	12	12	-	-	-	12A
DSF-3	DESTRAT FAN	120	1				0.3	20	3/4"	2	12	12	-	-	-	12A
DSF-4	DESTRAT FAN	120	1				0.3	20	3/4"	2	12	12	-	-	-	12A
UH-1	UNIT HEATER	120	1				4.3	20	3/4"	2	12	12	-	-	-	4A
UH-2	UNIT HEATER	120	1				4.3	20	3/4"	2	12	12	-	-	-	4A
UH-3	UNIT HEATER	120	1				4.3	20	3/4"	2	12	12	-	-	-	4A
UH-4	UNIT HEATER	120	1				3.7	20	3/4"	2	12	12	-	-	-	4A
EC-1	EVAP COOLER	120	1		3/4		13.8	20	3/4"	2	12	12	-	30/1	20	1A
	EVAP PUMP	120	1				0.7	20	3/4"	2	12	12	-	30/1	-	2A
	EVAP CONTROL	120	1					20	3/4"	2	12	12	-		-	12A
EC-2	EVAP COOLER	208	1		1		8.8	20	3/4"	2	12	12	-	30/1	20	1A
	EVAP PUMP	120	1				0.7	20	3/4"	2	12	12	-	30/1	-	2A
	EVAP CONTROL	120	1					20	3/4"	2	12	12	-	-	-	12A
EC-3	EVAP COOLER	120	1		1/2		9.8	20	3/4"	2	12	12	-	30/1	20	1A
	EVAP PUMP	120	1				0.7	20	3/4"	2	12	12	-	30/1	-	2A
	EVAP CONTROL	120	1					20	3/4"	2	12	12	-	-	-	12A
EC-4	EVAP COOLER	120	1		1/3		7.2	20	3/4"	2	12	12	-	30/1	20	1A
	EVAP PUMP	120	1				0.7	20	3/4"	2	12	12	-	30/1	-	2A
	EVAP CONTROL	120	1					20	3/4"	2	12	12	-	-	-	12A
RCU-1	OUTDOOR SPLIT UNIT	208	1			13.5		20	3/4"	2	12	12	-	30/2	20	1A
AC-1	INDOOR SPLIT UINT	208	1				1	-	3/4"	2	12	12	-	-	-	6A
RCU-2	OUTDOOR SPLIT UNIT	208	1			12		20	3/4"	2	12	12	-	30/2	20	1A
AC-2	INDOOR SPLIT UINT	208	1				1	-	3/4"	2	12	12	-	-	-	6A
RCU-3	OUTDOOR SPLIT UNIT	208	1			20.1		25	3/4"	2	10	10	-	30/2	25	1A
AC-3	INDOOR SPLIT UINT	208	1				1	-	3/4"	2	12	12	-	-	-	6A
RCU-4	OUTDOOR SPLIT UNIT	208	1			24		30	3/4"	2	10	10	-	30/2	30	1A
AC-4	INDOOR SPLIT UINT	208	1				1	-	3/4"	2	12	12	-	-	-	6A
RCU-5	OUTDOOR SPLIT UNIT	208	1			24.5		35	3/4"	2	8	10	-	60/2	35	1A
AC-5	INDOOR SPLIT UINT	208	1				1	-	3/4"	2	12	12	-	-	-	6A
RCU-6	OUTDOOR SPLIT UNIT	208	1			24.5		35	3/4"	2	8	10	-	60/2	35	1A
AC-6	INDOOR SPLIT UINT	208	1				1	-	3/4"	2	12	12	-	-	-	6A
RCU-7	OUTDOOR SPLIT UNIT	208	1			24		30	3/4"	2	10	10	-	30/2	30	1A
AC-7	INDOOR SPLIT UINT	208	1				1	-	3/4"	2	12	12	-	-	-	6A
RCU-8	OUTDOOR SPLIT UNIT	208	1			32.8		40	3/4"	2	8	10	-	60/2	40	1A
AC-8	INDOOR SPLIT UINT	208	1				1	-	3/4"	2	12	12	-	-	-	6A
RCU-9	OUTDOOR SPLIT UNIT	208	1			24		30	3/4"	2	10	10	-	30/2	30	1A
AC-9	INDOOR SPLIT UINT	208	1				1	-	3/4"	2	12	12	-	-	-	6A
RCU-10	OUTDOOR SPLIT UNIT	208	1			24		30	3/4"	2	10	10	-	30/2	30	1A
AC-10	INDOOR SPLIT UINT	208	1				1	-	3/4"	2	12	12	-	-	-	6A
LPH-1	MOTORIZED LOUVER	120	1					20	3/4"	2	12	12	-	-	-	13A
LPH-2	MOTORIZED LOUVER	120	1					20	3/4"	2	12	12	-	-	-	13A
LPH-3	MOTORIZED LOUVER	120	1					20	3/4"	2	12	12	-	-	-	13A
EF-1A	EXHAUST FAN	480	3				3.8	20	3/4"	3	12	12	-	30/3	20	1A
EF-1B	EXHAUST FAN	480	3				3.8	20	3/4"	3	12	12	-	30/3	20	1A
EF-2	EXHAUST FAN	120	1				6.3	20	3/4"	2	12	12	-	30/1	20	1A
EF-3A	EXHAUST FAN	480	3				3.8	20	3/4"	3	12	12	-	30/3	20	1A
EF-3B	EXHAUST FAN	480	3				3.8	20	3/4"	3	12	12	-	30/3	20	1A
EF-4	EXHAUST FAN	120	1				6.3	20	3/4"	2	12	12	-	30/1	20	1A
EF-5	EXHAUST FAN	120	1				8.9	20	3/4"	2	12	12	-	30/1	20	1A
EF-6	EXHAUST FAN	120	1				6.3	20	3/4"	2	12	12	-	30/1	20	1A
EF-7	EXHAUST FAN	120	1				2.9	20	3/4"	2	12	12	-	30/1	20	1A
EF-8	EXHAUST FAN	120	1				6.3	20	3/4"	2	12	12	-	30/1	20	1A
EF-9	EXHAUST FAN	120	1				4.3	20	3/4"	2	12	12	-	30/1	20	1A
EF-10	EXHAUST FAN	120	1				1.9	20	3/4"	2	12	12	-	30/1	20	1A
EF-11	EXHAUST FAN	120	1					50	1"	2	6	10	-	60/1	50	1A
EF-12	EXHAUST FAN	120	1					50	1"	2	6	10	-	60/1	50	1A
EF-13	EXHAUST FAN	120	1				4.3	20	3/4"	2	12	12	-	30/1	20	1A
EF-14	EXHAUST FAN	208	3				8.3	20	3/4"	3	12	12	-	30/3	20	1A
DOAS-1	MAKE UP AIR UNIT	480	3			49.9		60	3/4"	3	4	10	-	60/3	60	1A
DOAS-2	MAKE UP AIR UNIT	480	3			33		35	3/4"	3	8	10	-	60/3	35	1A
DOAS-3	MAKE UP AIR UNIT	480	3			33		35	3/4"	3	8	10	-	60/3	35	1A
DOAS-4	MAKE UP AIR UNIT	480	3			33		35	3/4"	3	8	10	-	60/3	35	1A
RTU-1	ROOFTOP UNIT	480	3			36.4		45	1"	3	6	10	-	60/3	45	1A
RTU-2	ROOFTOP UNIT	480	3			24.2		30	3/4"	3	10	10	-	30/3	30	1A
RTU-3	ROOFTOP UNIT	480	3			15		20	3/4"	3	12	12	-	30/3	20	1A
RTU-4	ROOFTOP UNIT	480	3			11.6		15	3/4"	3	12	12	-	30/3	15	1A
RTU-5	ROOFTOP UNIT	480	3			16.6		20	3/4"	3	12	12	-	30/3	20	1A
RTU-6	ROOFTOP UNIT	480	3			56.7		70	1-1/4"	3	4	8	-	100/3	70	1A
RTU-7	ROOFTOP UNIT	480	3			56.7		70	1-1/4"	3	4	8	-	100/3	70	1A
RTU-8	ROOFTOP UNIT	480	3			67.2		90	1-1/4"	3	2	8	-	100/3	90	1A
RTU-9	ROOFTOP UNIT	480	3			34.4		40	3/4"	3	8	10	-	60/3	40	1A
RTU-10	ROOFTOP UNIT	480	3			53.1		70	1-1/4"	3	4	8	-	100/3	70	1A
TWH-1	TANKLESS WATER HEATER	120	1				1	20	3/4"	2	12	12	-		-	12A
TWH-2	TANKLESS WATER HEATER	120	1				1	20	3/4"	2	12	12	-	-	-	12A
TWH-3	TANKLESS WATER HEATER	120	1				1	20	3/4"	2	12	12	-	-	-	12A
WH-1	GAS WATER HEATER	120	1					20	3/4"	2	12	12	-	-	-	12A
WH-2	GAS WATER HEATER	120	1					20	3/4"	2	12	12	-	-	-	12A
WH-3	GAS WATER HEATER	120	1					20	3/4"	2	12	12	-	-	-	12A
EWH-1	ELECTRIC WATER HEATER	208	1	4.1			20	25	3/4"	2	10	10	-	30/2	-	2A
P-1	CIRCULATION PUMP	120	1				0.5	20	3/4"	2	12	12	-	-	-	12A
P-2	CIRCULATION PUMP	120	1				0.5	20	3/4"	2	12	12	-	-	-	12A
P-3	CIRCULATION PUMP	120	1				1	20	3/4"	2	12	12	-	-	-	13A
P-4	CIRCULATION PUMP	120	1				1	20	3/4"	2	12	12	-	-	-	13A
P-5	CIRCULATION PUMP	120	1				1	20	3/4"	2	12	12	-	-	-	13A
WS-1	WATER SOFTENER	120	1					15	3/4"	2	12	12	-	-	-	12A
ESP-1	SUMP PUMP	120	1				5	20	3/4"	2	12	12	-	30/1	20	1A
ESP-2	SUMP PUMP	120	1				5	20	3/4"	2	12	12	-	30/1	20	1A

NOTE: COORDINATE FINAL EQUIPMENT CONNECTIONS WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN. VERIFY ALL MOUNTING HEIGHTS.

REMARKS:
1. FUSED DISCONNECT SWITCH
2. NON-FUSED DISCONNECT SWITCH
3. BREAKER IN ENCLOSURE
4. THERMAL OVERLOAD SWITCH
5. TOGGLE SWITCH
6. INDOOR UNIT POWERED BY OUTDOOR UNIT.
7. MAGNETIC STARTER/NON-FUSED DISCONNECT SWITCH
8. MAGNETIC STARTER/FUSED DISCONNECT COMBINATION
9. MAGNETIC STARTER/BREAKER COMBINATION
10. REDUCED VOLTAGE STARTER
11. VARIABLE FREQUENCY DRIVE
12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC.
13. DIRECT CONNECTION
14. DUCT DETECTOR IN RETURN DUCT
15. SWITCH WITH LIGHTS

A. FURNISHED, INSTALLED AND CONNECTED UNDER DIVISION 26
B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTION UNDER DIVISION 26
C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 26
D. FURNISHED, INSTALLED, AND CONNECTED UNDER ANOTHER DIVISION
E. FURNISHED AND INSTALLED UNDER DIVISION 26 REQUIRING CONNECTION UNDER ANOTHER DIVISION

EQUIPMENT SCHEDULE

MARK	DESCRIPTION	ELECTRICAL V	PH	KW	HP	MCA	FLA	MOCP	CONDUIT SIZE	WIRE QTY.	WIRE SIZE	GND. SIZE	STARTER NEMA SIZE	OVERCURRENT PROTECTION DISCONNECT SIZE/POLE	FUSE SIZE	REMARKS	MISC. INFO.
B53	COUNTERTOP MICROWAVE	120	1	1.55			13	15	1"	2	12	12	-	-	-	12A	NEMA 5-15/5FT CORD
B100	MODULAR OVEN (1 DECK)	208	3	11.8			32.7	45	1"	3	6	10	-	-	-	12A	3 DECKS TOTAL. VERIFY SPECS
B101	VARISLIER BREADSLICER	120	1		3/4		13.8	20	1"	2	12	12	-	-	-	12A	
B104	WATER CHILLER	120	1	1			8	20	1"	2	12	12	-	-	-	12A	
B105	HYDROLIC DIVIER	208	3	1.8			5	20	1"	3	12	12	-	-	-	12A	NEMA L15-20P
B107	DOUGH MOULDER	208	3	1.1			4.8	20	1"	3	12	12	-	-	-	12A	
B109	SCALE	120	1				0.1	20	1"	2	12	12	-	-	-	12A	TWISTLOCK
B112	REACH IN FRIDGE	120	1				3.2	15	1"	2	12	12	-	-	-	12A	NEMA 5-15P
B114	TARTLET PRESS	208	1	3.2				20	1"	2	12	12	-	-	-	12A	
B115	20 QT MIXER	208	1	0.7				20	1"	2	12	12	-	-	-	12A	
B116	PROOFER	208	3				24	30	1"	3	10	10	-	-	-	12A	
B118	DOUNUT CASE	120	1				1	20	1"	2	12	12	-	-	-	12A	POWER FOR LIGHT FIXTURES
B119	COOKIE DEPOSITOR	120	1	0.49			7.3	20	1"	2	12	12	-	-	-	12A	
B172	30QT MIXER	480	3		3/4		1.6	20	1"	3	12	12	-	-	-	12A	NEMA L16-20R/CORD INCLUDED
B174	60QT MIXER	480	3		3/4		1.6	20	1"	3	12	12	-	-	-	12A	NEMA L16-20P
B241	DOUBLE RACK OVEN	120/208	3				16	30	1"	4	10	10	-	-	-	12A	
B257	80QT MIXER	208	3				13	20	1"	3	12	12	-	-	-	12A	
B270	WATER METER	120	1					20	1"	2	12	12	-	-	-	12A	
B310	100 QT MIXER	208	3				21.3	30	1"	3	10	10	-	-	-	12A	
B337	PAN WASHER	480	3				37.1	50	1"	3	6	10	-	60/3	-	2A	
C64	REFRIGERATED MERCHANDISER	208	1				15.6	30	1"	2	10	10	-	-	-	12A	NEMA L14-30P DROP CORD
D57	HAND WRAPPER	120	1				6.5	20	1"	2	12	12	-	-	-	12A	
D75	DRINK MIXER	120	1				7.5	20	1"	2	12	12	-	-	-	12A	
D99	BRAISING PAN	208	1				1.5	20	1"	2	12	12	-	-	-	12A	
D101	GELATO DISPLAY CASE	208	1				13	15	1"	2	12	12	-	-	-	12A	NEMA 6-15P
D102	ESPRESSO MACHINE	208	1					30	1"	2	10	10	-	-	-	12A	
D103	COFFEE BEAN HOPPER	120	1				11	15	1"	2	12	12	-	-	-	12A	NEMA 5-15LP
D104	REFRIGERATOR TABLE	120	1				1.5	15	1"	2	12	12	-	-	-	12A	NEMA 5-15P
D105	ESPRESSO GRINDER	120	1				12	20	1"	2	12	12	-	-	-	12A	
D106	BLENDER	120	1				15	20	1"	2	12	12	-	-	-	12A	
D107	ICE MACHINE	120	1				7	20	1"	2	12	12	-	-	-	12A	NEMA 5-15P
D108	DOUBLE COFFEE BREWRER	208	1				34.51	50	1 1/4"	3	6	10	-	-	-	12A	3W+G
D111	ICE DISPENSER	120	1				2.25	20	1"	2	12	12	-	-	-	12A	
D112	ICE MACHINE	120	1				13.5	20	1"	2	12	12	-	-	-	12A	
D113	FREEZER	120	1					20	1"	2	12	12	-	-	-	12A	
D120	ONE DOOR FREEZER	120	1				4.3	15	1"	2	12	12	-	-	-	12A	NEMA 5-15P
D122	CHEF BASE	120	1				2.5	15	1"	2	12	12	-	-	-	12A	NEMA 5-15P
D124	FRY HOLDING STATION	120	1				10	15	1"	2	12	12	-	-	-	12A	NEMA 5-15P
D128	PIZZA PREP TABLE	120	1				6.4	15	1"	2	12	12	-	-	-	12A	NEMA 5-15P
D129	SCALE	120	1					20	1"	2	12	12	-	-	-	12A	TWISTLOCK
D200	SCANNER SCALE	120	1				0.1	20	1"	2	12	12	-	-	-	12A	
D202	CHICKEN MERCHANDISER	208	1				30	40	1"	3	8	10	-	-	-	12A	
D225	FRYER	208	3				45	60	1 1/4"	3	4	10	-	-	-	12A	EACH VAT REQ. DED. CIRCUIT
		208	3				43	60	1 1/4"	3	4	10	-	-	-	12A	
D230	SOUP STATION	120/208	1				54.1	60	1 1/4"	3	4	10	-	-	-	13A	
D231	HOT FOOD BAR	120/208	3				44	60	1 1/4"	4	4	10	-	-	-	13A	VERIFY ELEC. SPECS
D232	SALAD BAR	120/208	1				26.8	35	1"	3	8	10	-	-	-	13A	
D233	HOT WELLS	208	1				23.1	30	1"	2	10	10	-	-	-	12A	
D343	ELECTRIC PAN WASHER	208	3				70	90	1 1/4"	3	2	8	-	100/3	-	2A	
D499	MANUAL MEAT SLICER	120	1	0.36			3.5	15	1"	2	12	12	-	-	-	12A	NEMA 5-15P
D518	COMBI OVEN	208	3	20.4			57	80	1 1/4"	3	3	8	-	-	-	12A	
D519	COMBI OVEN	208	3	25.8			73	100	1 1/2"	3	1	8	-	-	-	12A	
D536	FOOD DISPOSER	208	3				8.8	20	1"	3	12	12	-	-	-	12A	
D541	COMBI OVEN	480	3	22.4			26	35	1"	3	8	10	-	60/3	-	2A	
		480	3	37.4			44.9	60	1 1/4"	3	4	10	-	60/3	-	2A	
D543	BLAST CHILLER	208	3				45	60	1 1/4"	3	4	10	-	-	-	12A	
D544	REACH IN COOLER	120	1				7.5	15	1"	2	12	12	-	-	-	12A	NEMA 5-15
D546	REACH IN FREEZER	120	1				8.3	15	1"	2	12	12	-	-	-	12A	NEMA 5-15
D796	ROTISSERIE OVEN	208	3	10.5				50	1 1/4"	3	6	10	-	-	-	12A	NEMA 15-50P
D797	VENTLESS HOOD	208	1	0.4			2	15	1"	2	12	12	-	-	-	12A	NBEMA 6-15P
D799	HEATER PROOFER	120	1	1.44			14	15	1"	2	12	12	-	-	-	12A	NEMA 5-15P
DB72	UNDERCOUNTER FREEZER	120	1				2.7	15	1"	2	12	12	-	-	-	12A	
F101	SCALE	120	1				0.1	20	1"	2	12	12	-	-	-	12A	TWISTLOCK
G54	CHECKSTAND	120	1					20	1"	2	12	12	-	-	-	12A	(1) ISO (1) DIRTY, TWISTLOCK
G100	COMPACTOR	480	3		10		13	20	1"	3	12	12	-	30/3	20	1A	
G120	BEVERAGE COOLER	120	1				1.7	15	1"	2	12	12	-	-	-	12A	NEMA 5-15P
G121	1 DOOR FRIDGE	120	1				3.1	15	1"	2	12	12	-	-	-	12A	NEMA 5-15P
G125	PROTIEN COOLER	120	1				7.9	15	1"	2	12	12	-	-	-	12A	NEMA 5-15P
G126	PET COOLER	120	1				2	15	1"	2	12	12	-	-	-	12A	NEMA 5-15P
G172	MOBILITY CART	120	1				1	20	1"	2	12	12	-	-	-	12A	
G174	SELF CHECKOUT STATION	120	1				16	20	1"	2	12	12	-	-	-	12A	ISO CURRENT, TWISTLOCK
G175	SELF CHECKOUT ATTENDANT	120	1				16	20	1"	2	12	12	-	-	-	12A	ISO CURRENT, TWISTLOCK
G176	BEVERAGE COOLER	120	1				1.6	15	1"	2	12	12	-	-	-	12A	NEMA 5-15P
G177	CHECKSTAND SCANER	120	1				16	20	1"	2	12	12	-	-	-	12A	ISO CURRENT, TWISTLOCK
G200	ICE MAKER	120	1				10.3	15	1"	2	12	12	-	-	-	12A	NEMA 5-15P
G250	WATER BOTTLE FILLER	120	1					20	1"	2	12	12	-	-	-	12A	
G379	ICE MERCHANDISER	120	1		1/2			20	1"	2	12	12	-	-	-	12A	
M16	MISTER	120	1					20	1"	2	12	12	-	-	-	12A	
M25	REACH IN FREEZER	120	1				4.3	15	1"	2	12	12	-	-	-	12A	NEMA 5-15P
M100	SCALE	120	1				0.1	20	1"	2	12	12	-	-	-	12A	TWISTLOCK
M104	ICE MAKER	208	1	5.3			25	35	1"	2	8	10	-	-	-	12A	
M105	GRINDER	480	3				5.33	20	1"	3	12	12	-	-	-	12A	
M109	TENDERIZER	120	1				6.4	15	1"	2	12	12	-	-	-	12A	NEMA 5-15P TWISTLOCK DROPCORD
M110	MEAT SAW	208	3		5		16.7	25	1"	3	10	10	-	-	-	12A	DROPCORD W/ TWISTLOCK
M111	MEAT SAW	208	3		5		16.7	25	1"	3	10	10	-	-	-	12A	DROPCORD W/ TWISTLOCK
M112	PATTY FORMING MACHINE	120	1				13	20	1"	2	12	12	-	-	-	12A	DROPCORD W/ TWISTLOCK
M120	AUTO WRAPPER/LABELER	208	3	2.2			6.1	20	1"	3	12	12	-	-	-	12A	DROPCORD W/ TWISTLOCK
M121	WRAPPER/LABELER	120	1				6.5	20	1"	2	12	12	-	-	-	12A	DROPCORD W/ TWISTLOCK
M337	ELECTRIC PAN WASHER	208	3		10		79.1	100	1 1/2"	3	1	8	-	100/3	100	1A	
M499	MEAT SLICER	120	1	0.36			3.5	20	1"	2	12	12	-	-	-	12A	NEMA 5-15P
P101	SCALE	120	1				0.1	20	1"	2	12	12	-	-	-	12A	TWISTLOCK
P102	PRODUCE SOAK SINK	208	1				5.2	20	1"	2	12	12	-	-	-	12A	
P103	FOOD PROCESSOR	120	1				13	20	1"	2	12	12	-	-	-	12A	
P104	FOOD PROCESSOR	120	1		1 1/2		20	25	1"	2	10	10	-	-	-	12A	
P197	JUICE MACHINE	120	1	0.28			6.3	20	1"	2	12	12	-	-	-	12A	
R12	VERTICAL BALER	480	3		15		21	30	1"	3	10	10	-	30/3	30	1A	
R18	CUBE ICE MACHINE	120	1				12.2	20	1"	2	12	12	-	-	-	12A	
R19	DRINK MACHINE	120	1					15	1"	2	12	12	-	-	-	12A	NEMA 5-15P
X31	MEDICAL FRIDGE	120	1					20	1"	2	12	12	-	-	-	12A	NEMA 5-15P
X32	UNDERCOUNTER MED FRIDGE	120	1					20	1"	2	12	12	-	-	-	12A	NEMA 5-15P

NOTE: COORDINATE FINAL EQUIPMENT CONNECTIONS WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN. VERIFY ALL MOUNTING HEIGHTS.

REMARKS:
1. FUSED DISCONNECT SWITCH
2. NON-FUSED DISCONNECT SWITCH
3. BREAKER IN ENCLOSURE
4. THERMAL OVERLOAD SWITCH
5. TOGGLE SWITCH
6. MAGNETIC STARTER
7. MAGNETIC STARTER/NON-FUSED DISCONNECT SWITCH
8. MAGNETIC STARTER/FUSED DISCONNECT COMBINATION
9. MAGNETIC STARTER/BREAKER COMBINATION
10. REDUCED VOLTAGE STARTER
11. VARIABLE FREQUENCY DRIVE
12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC.
13. DIRECT CONNECTION
14. DUCT DETECTOR IN RETURN DUCT
15. SWITCH WITH LIGHTS

A. FURNISHED, INSTALLED AND CONNECTED UNDER DIVISION 26
B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTION UNDER DIVISION 26
C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 26
D. FURNISHED, INSTALLED, AND CONNECTED UNDER ANOTHER DIVISION
E. FURNISHED AND INSTALLED UNDER DIVISION 26 REQUIRING CONNECTION UNDER ANOTHER DIVISION

elemental
ELECTRICAL ENGINEERS
76 W 13775 S, STE 3
DRAPER, UT 84020
(801) 618-9656
eric@elementalelectricalengineers.com

REVISIONS

MARK	DATE	DESCRIPTION
-	08/28/26	PERMIT SET



HARMONS SPANISH FORK
2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

PROJECT #:	26107
SHEET SIZE:	30"x42"
DATE:	8/28/26
DRAWN BY:	NF,MS,ZF
CHECKED BY:	ES
SHEET TITLE:	

ELECTRICAL SCHEDULES

E601

PANEL SCHEDULE MDP

VOLT/PHASE/WIRE: 277/480V/3PH/4W — AIC RATING: 65,000 AIC — MAIN BREAKER: 2000A
MOUNT/ENCLOSURE: SURFACE/NEMA 1 — LOCATION: — MAIN LUGS:

CKT NO	DESCRIPTION	LOAD	AMPS	POLES	A	B	C	POLES	AMPS	LOAD	DESCRIPTION	CKT NO
1	DISTRIBUTION PANEL 'SDP'	251,497	1000	3	304190			3	200	52693	PANEL 'DH'	2
3	------------	256046	-	-		308739		-	-	52693	------------	4
5	------------	237369	-	-			290062	-	-	52693	------------	6
7	PANEL 'L'	10216	200	3	14955			3	100	4739	PANEL 'EH'	8
9	------------	7514	-	-		11069		-	-	3555	------------	10
11	------------	10648	-	-			12685	-	-	2037	------------	12
13	PANEL 'MH1'	94388	400	3	139005			3	225	44617	RACK 'A'	14
15	------------	94388	-	-		139005		-	-	44617	------------	16
17	------------	94388	-	-			139005	-	-	44617	------------	18
19	PANEL 'MH2'	82006	400	3	139371			3	250	57365	RACK 'B'	20
21	------------	82006	-	-		139371		-	-	57365	------------	22
23	------------	82006	-	-			139371	-	-	57365	------------	24
25	SPACE	0			0					0	SPACE	26
27	SPACE	0				0				0	SPACE	28
29	SPACE	0					0			0	SPACE	30
31	SPACE	0			0					0	SPACE	32
33	SPACE	0				0				0	SPACE	34
35	SPACE	0					0			0	SPACE	36
37	SPACE	0			0					0	SPACE	38
39	SPACE	0				0				0	SPACE	40
41	SPACE	0					0			0	SPACE	42
TOTALS					597,521	598,184	581,123					

TOTAL LOAD: 1,776,828

LOADS	CONTINUOUS	NON-CONTINUOUS	DEMAND FACTOR/CALCULATION				DEMAND LOAD
EXISTING	0	0	125% x	0			0
LIGHTING	79,299	0	125% x	79299	+ 100% x	0	99,124
RECEPTACLE	0	98,913	100% x	10000	+ 50% x	88913	54,457
MOTOR	0	324,590	125% x	0	+ 100% x	324590	324,590
FIXED HEAT	0	5,064	100% x	5064			349844
A/C	0	349,844	100% x	349844			
KITCHEN EQUIP.	0	830,457	65 % x	830457			539,797
MISC	0	88,661	125% X	0	+ 100% x	88661	88,661
					TOTAL DEMAND LOAD:		1,456,472 VA
							1,752 A

PANEL NOTES:
ALL OVERCURRENT PROTECTION DEVICES SHALL HAVE THE SAME AIC RATING AS THE EQUIPMENT THEY ARE LOCATED IN.

PANEL SCHEDULE EH

VOLT/PHASE/WIRE: 277/480V/3PH/4W — AIC RATING: 22,000 AIC — MAIN BREAKER:
MOUNT/ENCLOSURE: SURFACE/NEMA 1 — LOCATION: — MAIN LUGS: 100A

CKT NO	DESCRIPTION	LOAD	AMPS	POLES	A	B	C	POLES	AMPS	LOAD	DESCRIPTION	CKT NO
1	LTG - HIGH BAY SALES / ENTRY	3739	20	1	3739					0	SPACE	2
3	LTG - CYLINDER SALES / BOH	3055	20	1		3055				0	SPACE	4
5	LTG - MEZZANINE / PHARMACY / CAFE	2037	20	1			2037			0	SPACE	6
7	SPACE	0			0					0	SPACE	8
9	SPACE	0				0				0	SPACE	10
11	SPACE	0					0			0	SPACE	12
13	SPACE	0			0					0	SPACE	14
15	SPACE	0				0				0	SPACE	16
17	SPACE	0					0			0	SPACE	18
19	SPACE	0			0					0	SPACE	20
21	SPACE	0				0				0	SPACE	22
23	SPACE	0					0			0	SPACE	24
25	SPACE	0			0					0	SPACE	26
27	SPACE	0				0				0	SPACE	28
29	SPACE	0					0			0	SPACE	30
31	SPACE	0			0					0	SPACE	32
33	SPACE	0				0				0	SPACE	34
35	SPACE	0					0			0	SPACE	36
37	SPACE	0			1000			3	50	1000	PANEL 'EL'	38
39	SPACE	0				500		-	-	500	------------	40
41	SPACE	0					0	-	-	0	------------	42
TOTALS					4,739	3,555	2,037					

TOTAL LOAD: 10,331

LOADS	CONTINUOUS	NON-CONTINUOUS	DEMAND FACTOR/CALCULATION				DEMAND LOAD
EXISTING	0	0	125% x	0			0
LIGHTING	8,831	0	125% x	8831	+ 100% x	0	11,039
RECEPTACLE	0	0	100% x	0	+ 50% x	0	0
MOTOR	0	0	125% x	0	+ 100% x	0	0
FIXED HEAT	0	0	100% x	0			0
A/C	0	0	100% x	0			
KITCHEN EQUIP.	0	0	100 % x	0			0
MISC	0	1,500	125% X	0	+ 100% x	1500	1,500
					TOTAL DEMAND LOAD:		12,539 VA
							15 A

PANEL NOTES:
ALL OVERCURRENT PROTECTION DEVICES SHALL HAVE THE SAME AIC RATING AS THE EQUIPMENT THEY ARE LOCATED IN.

PANEL SCHEDULE EL

VOLT/PHASE/WIRE: 120/208V/3PH/4W — AIC RATING: 10,000 AIC — MAIN BREAKER: 100A
MOUNT/ENCLOSURE: SURFACE/NEMA 1 — LOCATION: — MAIN LUGS:

CKT NO	DESCRIPTION	LOAD	AMPS	POLES	A	B	C	POLES	AMPS	LOAD	DESCRIPTION	CKT NO
1	ELEVATOR FIRE MONITORING	500	20	1	1000			1	20	500	ELEVATOR MAG DOORS	2
3	FACP	500	20	1		500				0	SPACE	4
5	SPACE	0					0			0	SPACE	6
7	SPACE	0			0					0	SPACE	8
9	SPACE	0				0				0	SPACE	10
11	SPACE	0					0			0	SPACE	12
13	SPACE	0			0					0	SPACE	14
15	SPACE	0				0				0	SPACE	16
17	SPACE	0					0			0	SPACE	18
19	SPACE	0			0					0	SPACE	20
21	SPACE	0				0				0	SPACE	22
23	SPACE	0					0			0	SPACE	24
25	SPACE	0			0					0	SPACE	26
27	SPACE	0				0				0	SPACE	28
29	SPACE	0					0			0	SPACE	30
31	SPACE	0			0					0	SPACE	32
33	SPACE	0				0				0	SPACE	34
35	SPACE	0					0			0	SPACE	36
37	SPACE	0			0					0	SPACE	38
39	SPACE	0				0				0	SPACE	40
41	SPACE	0					0			0	SPACE	42
TOTALS					1,000	500	0					

TOTAL LOAD: 1,500

LOADS	CONTINUOUS	NON-CONTINUOUS	DEMAND FACTOR/CALCULATION				DEMAND LOAD
EXISTING	0	0	125% x	0			0
LIGHTING	0	0	125% x	0	+ 100% x	0	0
RECEPTACLE	0	0	100% x	0	+ 50% x	0	0
MOTOR	0	0	125% x	0	+ 100% x	0	0
FIXED HEAT	0	0	100% x	0			0
A/C	0	0	100% x	0			
KITCHEN EQUIP.	0	0	100 % x	0			0
MISC	0	0	125% X	0	+ 100% x	1500	1,500
					TOTAL DEMAND LOAD:		1,500 VA
							4 A

PANEL NOTES:
ALL OVERCURRENT PROTECTION DEVICES SHALL HAVE THE SAME AIC RATING AS THE EQUIPMENT THEY ARE LOCATED IN.

PANEL SCHEDULE MH1

VOLT/PHASE/WIRE: 277/480V/3PH/4W — AIC RATING: 45,000 AIC — MAIN BREAKER:
MOUNT/ENCLOSURE: SURFACE/NEMA 1 — LOCATION: — MAIN LUGS: 400A

CKT NO	DESCRIPTION	LOAD	AMPS	POLES	A	B	C	POLES	AMPS	LOAD	DESCRIPTION	CKT NO
1	GRINDER	1468	20	3	5070					3602	COMPACTOR	2
3	------------	1468	-	-		5070		-	-	3602	------------	4
5	------------	1468	-	-			5070	-	-	3602	------------	6
7	VERTICAL BALER	5819	30	3	6819			3	20	1000	DOCK LEVELER	8
9	------------	5819	-	-		6819		-	-	1000	------------	10
11	------------	5819	-	-			6819	-	-	1000	------------	12
13	DOCK LEVELER	1000	20	3	12085			3	60	11085	ELEVATOR	14
15	------------	1000	-	-		12085		-	-	11085	------------	16
17	------------	1000	-	-			12085	-	-	11085	------------	18
19	DOAS-1	13828	60	3	22973			3	35	9145	DOAS-3	20
21	------------	13828	-	-		22973		-	-	9145	------------	22
23	------------	13828	-	-			22973	-	-	9145	------------	24
25	DOAS-2	9145	35	3	18290			3	35	9145	DOAS-4	26
27	------------	9145	-	-		18290		-	-	9145	------------	28
29	------------	9145	-	-			18290	-	-	9145	------------	30
31	RTU-1	8313	45	3	14964			3	30	6651	RTU-2	32
33	------------	8313	-	-		14964		-	-	6651	------------	34
35	------------	8313	-	-			14964	-	-	6651	------------	36
37	RTU-3	4156	20	3	5209			3	20	1053	EF-1A	38
39	------------	4156	-	-		5209		-	-	1053	------------	40
41	------------	4156	-	-			5209	-	-	1053	------------	42
43	SPACE	0			1053			3	20	1053	EF-1B	44
45	SPACE	0				1053		-	-	1053	------------	46
47	SPACE	0					1053	-	-	1053	------------	48
49	SPACE	0			3422			3	20	3422	RACK 'A' CONDENSING UNIT	50
51	SPACE	0				3422		-	-	3422	------------	52
53	SPACE	0					3422	-	-	3422	------------	54
55	SPACE	0			4503			3	25	4503	RACK 'B' CONDENSING UNIT	56
57	SPACE	0				4503		-	-	4503	------------	58
59	SPACE	0					4503	-	-	4503	------------	60
61	SPACE	0		0						0	SPACE	62
63	SPACE	0			0					0	SPACE	64
65	SPACE	0				0				0	SPACE	66
67	SPACE	0		0						0	SPACE	68
69	SPACE	0			0					0	SPACE	70
71	SPACE	0				0				0	SPACE	72
73	SPACE	0		0						0	SPACE	74
75	SPACE	0			0					0	SPACE	76
77	SPACE	0				0				0	SPACE	78
79	SPACE	0		0						0	SPACE	80
81	SPACE	0			0					0	SPACE	82
83	SPACE	0				0				0	SPACE	84
TOTALS					94,388	94,388	94,388					

TOTAL LOAD: 283,164

LOADS	CONTINUOUS	NON-CONTINUOUS	DEMAND FACTOR/CALCULATION				DEMAND LOAD
EXISTING	0	0	125% x	0			0
LIGHTING	0	0	125% x	0	+ 100% x	0	0
RECEPTACLE	0	0	100% x	0	+ 50% x	0	0
MOTOR	0	202,029	125% x	0	+ 100% x	202029	202,029
FIXED HEAT	0	0	100% x	0			57360
A/C	0	57,360	100% x	57360			
KITCHEN EQUIP.	0	23,775	100 % x	23775			23,775
MISC	0	0	125% X	0	+ 100% x	0	0
					TOTAL DEMAND LOAD:		283,164 VA
							341 A

PANEL NOTES:
ALL OVERCURRENT PROTECTION DEVICES SHALL HAVE THE SAME AIC RATING AS THE EQUIPMENT THEY ARE LOCATED IN.

PANEL SCHEDULE MH2

VOLT/PHASE/WIRE: 277/480V/3PH/4W — AIC RATING: 45,000 AIC — MAIN BREAKER:
MOUNT/ENCLOSURE: SURFACE/NEMA 1 — LOCATION: — MAIN LUGS: 400A

CKT NO	DESCRIPTION	LOAD	AMPS	POLES	A	B	C	POLES	AMPS	LOAD	DESCRIPTION	CKT NO
1	RTU-4	3214	15	3	18930					15716	RTU-7	2
3	------------	3214	-	-		18930		-	-	15716	------------	4
5	------------	3214	-	-			18930	-	-	15716	------------	6
7	RTU-5	4600	20	3	23223			3	90	18623	RTU-8	8
9	------------	4600	-	-		23223		-	-	18623	------------	10
11	------------	4600	-	-			23223	-	-	18623	------------	12
13	RTU-6	15716	70	3	25138			3	40	9422	RTU-9	14
15	------------	15716	-	-		25138		-	-	9422	------------	16
17	------------	15716	-	-			25138	-	-	9422	------------	18
19	SPACE	0			14715			3	70	15716	RTU-10	20
21	SPACE	0				14715		-	-	14715	------------	22
23	SPACE	0					14715	-	-	14715	------------	24
25	SPACE	0		0						0	SPACE	26
27	SPACE	0			0					0	SPACE	28
29	SPACE	0				0				0	SPACE	30
31	SPACE	0		0						0	SPACE	32
33	SPACE	0			0					0	SPACE	34
35	SPACE	0				0				0	SPACE	36
37	SPACE	0		0						0	SPACE	38
39	SPACE	0			0					0	SPACE	40
41	SPACE	0				0				0	SPACE	42
43	SPACE	0		0						0	SPACE	44
45	SPACE	0			0					0	SPACE	46
47	SPACE	0				0				0	SPACE	48
49	SPACE	0		0						0	SPACE	50
51	SPACE	0			0					0	SPACE	52
53	SPACE	0				0				0	SPACE	54
55	SPACE	0		0						0	SPACE	56
57	SPACE	0			0					0	SPACE	58
59	SPACE	0				0				0	SPACE	60
61	SPACE	0		0						0	SPACE	62
63	SPACE	0			0					0	SPACE	64
65	SPACE	0				0				0	SPACE	66
67	SPACE	0		0						0	SPACE	68
69	SPACE	0			0					0	SPACE	70
71	SPACE	0				0				0	SPACE	72
73	SPACE	0		0						0	SPACE	74
75	SPACE	0			0					0	SPACE	76
77	SPACE	0				0				0	SPACE	78
79	SPACE	0		0						0	SPACE	80
81	SPACE	0			0					0	SPACE	82
83	SPACE	0				0				0	SPACE	84
TOTALS					82,006	82,006	82,006					

TOTAL LOAD: 246,018

LOADS	CONTINUOUS	NON-CONTINUOUS	DEMAND FACTOR/CALCULATION				DEMAND LOAD
EXISTING	0	0	125% x	0			0
LIGHTING	0	0	125% x	0	+ 100% x	0	0
RECEPTACLE	0	0	100% x	0	+ 50% x	0	0
MOTOR	0	246,018	100% x	246018			246018
KITCHEN EQUIP.	0	0	100 % x	0			0
MISC	0	0	125% x	0	+ 100% x	0	0
					TOTAL DEMAND LOAD:		246,018 VA
							296 A

PANEL NOTES:
ALL OVERCURRENT PROTECTION DEVICES SHALL HAVE THE SAME AIC RATING AS THE EQUIPMENT THEY ARE LOCATED IN.

PANEL SCHEDULE L

VOLT/PHASE/WIRE: 277/480V/3PH/4W — AIC RATING: 45,000 AIC — MAIN BREAKER:
MOUNT/ENCLOSURE: SURFACE/NEMA 1 — LOCATION: — MAIN LUGS: 200A

CKT NO	DESCRIPTION	LOAD	AMPS	POLES	A	B	C	POLES	AMPS	LOAD	DESCRIPTION	CKT NO
1	LTG - EXTERIOR SCONCE FRONT	497	20	1	929			1	20	432	LTG - EXTERIOR SCONCE REAR	2
3	LTG - CHECKOUT GRID LIGHTS	660	20	1		708		1	20	48	LTG - ELEVATOR PIT	4
5	LTG - CASHWRAP	1700	20	1			3286	1	20	1586	LTG - SHELVING HIGH BAY	6
7	LTG - SHELVING HIGH BAY	680	20	1	1700			1	20	1020	LTG - SHELVING HIGH BAY	8
9	LTG - SHELVING HIGH BAY	1133	20	1		2606		1	20	1473	LTG - SHELVING HIGH BAY	10
11	LTG - SHELVING HIGH BAY	1133	20	1			4008	1	20	2875	LTG - VALENCE SIGN AND TAPE	12
13	LTG - DELI GENERAL	1133	20	1	1810			1	20	677	LTG - CAFÉ GENERAL	14
15	LTG - BOH / ELEC. MEZZANINE	2132	20	1		3192		1	20	1060	LTG - BAKERY GENERAL	16
17	LTG - MEAT PREP GENERAL	823	20	1			1674	1	20	851	LTG - BOH / FIRE RISER / E-SHOP	18
19	LTG - PHARMACY GENERAL	1481	20	1	3350			1	20	1869	LTG - MEZZANINE OFFICE GENERAL	20
21	LTG - MEZZANINE SEATING AREA	959	20	1		1007		1	20	48	LTG - ELEVATOR SHAFT	22
23	LTG - PARKING LOT NORTH	1226	20	1			1430	1	20	204	LTG - FLAGPOLE	24
25	LTG - PARKING LOT SOUTH	1226	20	1	2426			1	20	1200	LTG - HOLIDAY LIGHTING JBOX	26
27	SPACE	0	20	1		0				0	SPACE	28
29	SPACE	0	20	1			0			0	SPACE	30
31	SPACE	0	20	1	0					0	SPACE	32
33	SPACE	0	20	1		0				0	SPACE	34
35	SPACE	0	20	1			0			0	SPACE	36
37	SPACE	0	20	1	0					0	SPACE	38
39	SPACE	0	20	1		0				0	SPACE	40
41	LTG - LIGHTING CONTROL PANEL	250	20	1			250			0	SPACE	42
TOTALS					10,216	7,514	10,648					

TOTAL LOAD: 28,378

LOADS	CONTINUOUS	NON-CONTINUOUS	DEMAND FACTOR/CALCULATION				DEMAND LOAD
EXISTING	0	0	125% x	0			0
LIGHTING	28,378	0	125% x	28378	+ 100% x	0	35,473
RECEPTACLE	0	0	100% x	0	+ 50% x	0	0
MOTOR	0	0	125% x	0	+ 100% x	0	0
FIXED HEAT	0	0	100% x	0			0
A/C	0	0	100% x	0			
KITCHEN EQUIP.	0	0	100 % x	0			0
MISC	0	0	125% X	0	+ 100% x	0	0
					TOTAL DEMAND LOAD:		35,473 VA
							43 A

PANEL NOTES:
ALL OVERCURRENT PROTECTION DEVICES SHALL HAVE THE SAME AIC RATING AS THE EQUIPMENT THEY ARE LOCATED IN.

PANEL SCHEDULE SDP

VOLT/PHASE/WIRE: 120/208V/3PH/4W — AIC RATING: 45,000 AIC — MAIN BREAKER: 2000A
MOUNT/ENCLOSURE: SURFACE/NEMA 1 — LOCATION: — MAIN LUGS:

CKT NO	DESCRIPTION	LOAD	AMPS	POLES	A	B	C	POLES	AMPS	LOAD	DESCRIPTION	CKT NO
1	PANEL 'A'	29427	200	3	33378			3	100	3951	PANEL 'CL'	2
3	------------	26542	-	-		30787		-	-	4245	------------	4
5	------------	25637	-	-			29542	-	-	3905	------------	6
7	PANEL 'E'	51213	400	3	79109			3	200	27896	PANEL 'CI'	8
9	------------	56308	-	-		81932		-	-	25624	------------	10
11	------------	54913	-	-			80335	-	-	25422	------------	12
13	PANEL 'D'	62048	400	3	101389			3	250	39341	PANEL 'ML'	14
15	------------	63708	-	-		103866		-	-	40158	------------	16
17	------------	66192	-	-			102950	-	-	36758	------------	18
19	PANEL 'CF'	27301	100	3	37621			2	100	10320	PANEL 'LI'	20
21	------------	30371	-	-		39461		-	-	9090	------------	22
23	------------	24542	-	-			24542			0	SPACE	24
25	SPACE	0			0					0	SPACE	26
27	SPACE	0				0				0	SPACE	28
29	SPACE	0					0			0	SPACE	30
31	SPACE	0			0					0	SPACE	32
33	SPACE	0				0				0	SPACE	34
35	SPACE	0					0			0	SPACE	36
37	SPACE	0			0					0	SPACE	38
39	SPACE	0				0				0	SPACE	40
41	SPACE	0					0			0	SPACE	42
TOTALS					251,497	256,046	237,369					

TOTAL LOAD: 744,912

LOADS	CONTINUOUS	NON-CONTINUOUS	DEMAND FACTOR/CALCULATION				DEMAND LOAD
EXISTING	0	0	125% x	0			0
LIGHTING	42,090	0	125% x	42090	+ 100% x	0	52,613
RECEPTACLE	0	98,913	100% x	10000	+ 50% x	88913	54,457
MOTOR	0	84,074	125% x	0	+ 100% x	84074	84,074
FIXED HEAT	0	5,064	100% x	5064			46466
A/C	0	46,466	100% x	46466			
KITCHEN EQUIP.	0	381,144	65 % x	381144			247,744
MISC	0	87,161	125% X	0	+ 100% x	87161	87,161
					TOTAL DEMAND LOAD:		572,514 VA
							1,589 A

PANEL NOTES:
ALL OVERCURRENT PROTECTION DEVICES SHALL HAVE THE SAME AIC RATING AS THE EQUIPMENT THEY ARE LOCATED IN.

PANEL SCHEDULE A

VOLT/PHASE/WIRE: 120/208V/3PH/4W — AIC RATING: 22,000 AIC — MAIN BREAKER:
MOUNT/ENCLOSURE: SURFACE/NEMA 1 — LOCATION: — MAIN LUGS: 250A

CKT NO	DESCRIPTION	LOAD	AMPS	POLES	A	B	C	POLES	AMPS	LOAD	DESCRIPTION	CKT NO
1	REC - ELEC. / REF. RM	900	20	1	1400			1	20	500	ELEC. RM. PANIC HARDWARE	2
3	DELAYED EGRESS	500	20	1		1220		1	15	720	PET COOLERS	4
5	1 DOOR FRIDGE	372	15	1			1320	1	15	948	PROTIEN COOLER	6
7	PROTIEN COOLER	948	15	1	948					0	SPACE	8
9	PROTIEN COOLER	948	15	1		2196		2	20	1248	RCU-2	10
11	RCU-3	2090	25	2			3338	-	-	1248	------------	12
13	------------	2090	-	-	3746			1	20	1656	EC-1	14
15	RCU-7	2496	30	2		2996		1	20	500	EC-1 PUMP	16
17	------------	2496	-	-			2996	1	20	500	EC-1 CONTROLS	18
19	RCU-8	3411	40	2	4611			1	20	1200	VALENCE LIGHTING	20
21	------------	3411	-	-		3911		1	20	500	EC-2 PUMP	22
23	RCU-9	2496	30	2			2996	1	20	500	EC-2 CONTROLS	24
25	------------	2496	-	-	3660			1	20	1164	EC-3	26
27	UPH-1,2,3	500	20	1		1000		1	20	500	EC-3 PUMP	28
29	EF-6	756	20	1			1256	1	20	500	EC-3 CONTROLS	30
31	EF-13	516	20	1	1362			1	20	846	EC-4	32
33	EF-14	996	20	3		1496		1	20	500	EC-4 PUMP	34
35	------------	996	-	-			1496	1	20	500	EC-4 CONTROLS	36
37	------------	996	-	-	1812			1	20	816	EF-4	38
39	EF-5	1020	20	1		2020		1	20	1000	HEAT TRACE	40
41	REC - ROOFTOP	1440	20	1			2440	-	-	1000	------------	42
43	EUH-1	1500	20	2	2220			1	20	720	REC - GONDOLA SHELVES	44
45	------------	1500	-	-		2220		1	20	720	REC - GONDOLA SHELVES	46
47	UH-1	516	20	1			1236	1	20	720	REC - GONDOLA SHELVES	48
49	UH-2	516	20	1	1016			1	20	500	WH-1, P-4	50
51	DSF-1,2,3	300	20	1		800		1	20	500	WH-2	52
53	REC - GONDOLA SHELVES	720	20	1			1220	1	20	500	WH-3, P-5	54
55	REC - GONDOLA SHELVES	720	20	1	1220			1	20	500	WATER SOFTENER	56
57	REC - GONDOLA SHELVES	720	20	1		1520		1	20	800	SELF SERVE REF. DISPLAY	58
59	REC - GONDOLA SHELVES	720	20	1			1740	1	20	1020	LTG - SHELVING TRACKLIGHTS	60
61	REC - GONDOLA SHELVES	720	20	1	1740			1	20	1020	LTG - SHELVING TRACKLIGHTS	62
63

PANEL SCHEDULE — O (SECTION 1)

VOLT/PHASE/WIRE: 120/208V/3PH/4W — AIC RATING: 10,000 AIC — MAIN BREAKER:
MOUNT/ENCLOSURE: SURFACE/NEMA 1 — LOCATION: — MAIN LUGS: 400A

CKT NO	DESCRIPTION	LOAD	AMPS	POLES	A	B	C	POLES	AMPS	LOAD	DESCRIPTION	CKT NO
1	REC - TRAINING ROOM	1800	20	1	2520			1	20	720	REC - BREAKROOM	2
3	REFRIGERATOR	800	20	1		2000		1	20	1200	MICROWAVE	4
5	REC - BREAK COUNTER	180	20	1			1440	1	20	1260	REC - MEZZ. OFFICE HALL	6
7	REC - DEPT HEADS	900	20	1	1620			1	20	720	REC - DEPT HEADS	8
9	REC - DIRECTOR / MANAGER	1080	20	1		2160		1	20	1080	REC - HEAD CHECKER / HR	10
11	ELEVATOR CAB LIGHTING	500	15	1			860	1	20	360	REC - ELEVATOR SHAFT	12
13	REC - MEZZANINE GENERAL	900	20	1	1900			1	20	1000	ICE MAKER	14
15	REC - MEZZANINE GENERAL	1080	20	1		2160		1	20	1080	REC - MEZZANINE GENERAL	16
17	REC - CONFERENCE ROOM	1080	20	1			2160	1	20	1080	REC - MEZZANINE GENERAL	18
19	CHECKSTAND / BEV. COOLER	680	20	1	1360			1	20	680	CHECKSTAND / BEV. COOLER	20
21	CHECKSTAND / BEV. COOLER	680	20	1		1360		1	20	680	CHECKSTAND / BEV. COOLER	22
23	CHECKSTAND / BEV. COOLER	680	20	1			1360	1	20	680	CHECKSTAND / BEV. COOLER	24
25	CHECKSTAND / BEV. COOLER	680	20	1	1360			1	20	680	CHECKSTAND / BEV. COOLER	26
27	CHECKSTAND / BEV. COOLER	680	20	1		1256		1	20	576	BEVERAGE COOLERS	28
29	BEVERAGE COOLERS	576	20	1			936	1	20	360	REC - ELEVATOR PIT	30
31	REACH IN COOLER	900	15	1	1440			1	20	540	REC - ACCOUNTING	32
33	REACH IN FREEZER	996	15	1		1896		1	20	900	REC - COUNT OUT	34
35	ICE MERCHANDISER	1080	20	1			2160	1	20	1080	ICE MERCHANDISER	36
37	HAND DRYER	1000	20	1	2000			1	20	1000	HAND DRYER	38
39	REC - BATHROOMS	1080	20	1		2080		1	20	1000	HAND DRYER	40
41	HAND DRYER	1000	20	1			1720	1	20	720	REC - STORAGE	42
43	REC - PHARMACY COUNTER	540	20	1	1340			1	15	800	PHARM - FULL FRIDGE	44
45	PHARM - LIC FRIDGE	800	15	1		1300		1	20	500	PHARM BOTTLE FILLER	46
47	REC - PHARMACY COUNTER	720	20	1			1620	1	20	900	REC - PHARMACY COUNTER	48
49	REC - PHARM WAITING / CONSULT	720	20	1	950			1	20	230	FLORAL SCALE / COUNTER	50
51	REC - PAINT STAND	180	20	1		1180		1	20	1000	ENTRANCE MOTOR DOORS	52
53	ENTRANCE MOTOR DOORS	1000	20	1			1360	1	20	360	REC - EXTERIOR STOREFRONT	54
55	EF-7	348	20	1	708			1	20	360	MOBILITY CARTS	56
57	EF-8	756	20	1		1116		1	20	360	MOBILITY CARTS	58
59	EF-9	516	20	1			3012	2	30	2496	RCU-4	60
61	EF-10	228	20	1	2724			-	-	2496	----------	62
63	ESP-1,2	1200	20	1		3748		2	35	2548	RCU-5	64
65	EWH-1	2050	25	2			4598	-	-	2548	----------	66
67	----------	2050	-	-	4598			2	35	2548	RCU-6	68
69	TWH-1, P-1	200	20	1		2748		-	-	2548	----------	70
71	TWH-2, P-2	200	20	1			2696	2	30	2496	RCU-10	72
73	REC - STORE ENTRANCE	540	20	1	3036			-	-	2496	----------	74
75	REC - PAINT STAND	180	20	1		1180		2	30	1000	HEAT TRACE	76
77	PHARMACY WINDOW / DRAWER	500	20	1			1500	-	-	1000	----------	78
79	REC - MEZZANINE GENERAL	900	20	1	2340			1	20	1440	REC - ROOF PARPET WALL	80
81	SPACE	0				1440		1	20	1440	REC - ROOFTOP	82
83	SPACE	0					0			0	SPACE	84
TOTALS					27,896	25,624	25,422					

TOTAL LOAD: 78,942

LOADS	CONTINUOUS	NON-CONTINUOUS	DEMAND FACTOR/CALCULATION						DEMAND LOAD
EXISTING	0	0	125% x	0					0
LIGHTING	500	0	125% x	500	+ 100% x	0			625
RECEPTACLE	0	25,740	100% x	10000	+ 50% x	15740			17,870
MOTOR	0	9,248	125% x	0	+ 100% x	9248			9,248
FIXED HEAT	0	0	100% x	0					20176
A/C	0	20,176	100% x	20176					
KITCHEN EQUIP.	0	10,228	100 % x	10228					10,228
MISC	0	13,050	125% X	0	+ 100% x	13050			13,050
							TOTAL DEMAND LOAD:		71,197 VA
									198 A

PANEL NOTES:
ALL OVERCURRENT PROTECTION DEVICES SHALL HAVE THE SAME AIC RATING AS THE EQUIPMENT THEY ARE LOCATED IN.

PANEL SCHEDULE — O (SECTION 2)

VOLT/PHASE/WIRE: 120/208V/3PH/4W — AIC RATING: 10,000 AIC — MAIN BREAKER:
MOUNT/ENCLOSURE: SURFACE/NEMA 1 — LOCATION: — MAIN LUGS: 400A

CKT NO	DESCRIPTION	LOAD	AMPS	POLES	A	B	C	POLES	AMPS	LOAD	DESCRIPTION	CKT NO
85	SPACE	0			0					0	SPACE	86
87	SPACE	0				0				0	SPACE	88
89	SPACE	0					0			0	SPACE	90
91	SPACE	0			0					0	SPACE	92
93	SPACE	0				0				0	SPACE	94
95	SPACE	0					0			0	SPACE	96
97	SPACE	0			0					0	SPACE	98
99	SPACE	0				0				0	SPACE	100
101	SPACE	0					0			0	SPACE	102
103	SPACE	0			0					0	SPACE	104
105	SPACE	0				0				0	SPACE	106
107	SPACE	0					0			0	SPACE	108
109	SPACE	0			0					0	SPACE	110
111	SPACE	0				0				0	SPACE	112
113	SPACE	0					0			0	SPACE	114
115	SPACE	0			0					0	SPACE	116
117	SPACE	0				0				0	SPACE	118
119	SPACE	0					0			0	SPACE	120
121	SPACE	0			0					0	SPACE	122
123	SPACE	0				0				0	SPACE	124
125	SPACE	0					0			0	SPACE	126
127	SPACE	0			0					0	SPACE	128
129	SPACE	0				0				0	SPACE	130
131	SPACE	0					0			0	SPACE	132
133	SPACE	0			0					0	SPACE	134
135	SPACE	0				0				0	SPACE	136
137	SPACE	0					0			0	SPACE	138
139	SPACE	0			0					0	SPACE	140
141	SPACE	0				0				0	SPACE	142
143	SPACE	0					0			0	SPACE	144
145	SPACE	0			0					0	SPACE	146
147	SPACE	0				0				0	SPACE	148
149	SPACE	0					0			0	SPACE	150
151	SPACE	0			0					0	SPACE	152
153	SPACE	0				0				0	SPACE	154
155	SPACE	0					0			0	SPACE	156
157	SPACE	0			0					0	SPACE	158
159	SPACE	0				0				0	SPACE	160
161	SPACE	0					0			0	SPACE	162
163	SPACE	0			0					0	SPACE	164
165	SPACE	0				0				0	SPACE	166
167	SPACE	0					0			0	SPACE	168
TOTALS					0	0	0					

TOTAL LOAD: 0

LOADS	CONTINUOUS	NON-CONTINUOUS	DEMAND FACTOR/CALCULATION				DEMAND LOAD
EXISTING	0	0	125% x	0			0
LIGHTING	0	0	125% x	0	+ 100% x	0	0
RECEPTACLE	0	0	100% x	0	+ 50% x	0	0
MOTOR	0	0	125% x	0	+ 100% x	0	0
FIXED HEAT	0	0	100% x	0			0
A/C	0	0	100% x	0			
KITCHEN EQUIP.	0	0	100 % x	0			0
MISC	0	0	125% X	0	+ 100% x	0	0
					TOTAL DEMAND LOAD:		0 VA
					SEE SECTION 1		A

PANEL NOTES:
ALL OVERCURRENT PROTECTION DEVICES SHALL HAVE THE SAME AIC RATING AS THE EQUIPMENT THEY ARE LOCATED IN.

PANEL SCHEDULE — U

VOLT/PHASE/WIRE: 120/208V/1PH/3W — AIC RATING: 10,000 AIC — MAIN BREAKER:
MOUNT/ENCLOSURE: RECESSED/NEMA 1 — LOCATION: — MAIN LUGS: 100A

CKT NO	DESCRIPTION	LOAD	AMPS	POLES	A	C	POLES	AMPS	LOAD	DESCRIPTION	CKT NO
1	PRODUCE SCALE	180	20	1	720		1	20	540	DELI SCALES	2
3	DELI SCALE / REGISTER	360	20	1		540	1	20	180	CAFÉ REGISTER	4
5	BAKERY SCALES	720	20	1	1260		1	20	540	CHEESE SCALES	6
7	MEAT SCALES	540	20	1		890	1	20	350	MEAT SCALES	8
9	TTB	500	20	1	1000		1	20	500	TTB	10
11	TTB	500	20	1		1000	1	20	500	JT ROOM	12
13	JT ROOM	500	20	1	1000		1	20	500	JT ROOM	14
15	JT ROOM	500	20	1		1000	1	20	500	CHECKSTAND*	16
17	CHECKSTAND*	500	20	1	1000		1	20	500	CHECKSTAND*	18
19	CHECKSTAND*	500	20	1		1000	1	20	500	CHECKSTAND*	20
21	CHECKSTAND*	500	20	1	1000		1	20	500	CHECKSTAND*	22
23	CHECKSTAND*	500	20	1		1000	1	20	500	CHECKSTAND*	24
25	SELF CHECKOUT*	500	20	1	1000		1	20	500	SELF CHECKOUT*	26
27	SELF CHECKOUT*	500	20	1		1000	1	20	500	SELF CHECKOUT*	28
29	SELF CHECKOUT*	500	20	1	1000		1	20	500	SELF CHECKOUT*	30
31	SELF CHECKOUT ATTENDANT*	500	20	1		1760	1	20	1260	REC - PHARMACY COMPUTERS*	32
33	REC - PHARMACY COMPUTERS*	1080	20	1	1800		1	20	720	REC - PHARMACY SHELVES*	34
35	REC - PHARMACY DRIVE THRU*	360	20	1		900	1	20	540	REC - CUSTOMER SERVICE	36
37	REC - CUSTOMER SERVICE	540	20	1	540				0	SPACE	38
39	SPACE	0				0			0	SPACE	40
41	SPACE	0			0				0	SPACE	42
TOTALS					10,320	9,090					

TOTAL LOAD: 19,410

LOADS	CONTINUOUS	NON-CONTINUOUS	DEMAND FACTOR/CALCULATION				DEMAND LOAD
EXISTING	0	0	125% x	0			0
LIGHTING	0	0	125% x	0	+ 100% x	0	0
RECEPTACLE	0	7,910	100% x	7910	+ 50% x	0	7,910
MOTOR	0	0	125% x	0	+ 100% x	0	0
FIXED HEAT	0	0	100% x	0			0
A/C	0	0	100% x	0			
KITCHEN EQUIP.	0	0	100 % x	0			0
MISC	0	11,500	125% X	0	+ 100% x	11500	11,500
					TOTAL DEMAND LOAD:		19,410 VA
							93 A

PANEL NOTES:
ALL OVERCURRENT PROTECTION DEVICES SHALL HAVE THE SAME AIC RATING AS THE EQUIPMENT THEY ARE LOCATED IN.
*CIRCUIT TO HAVE AN ISOLATED GROUND

PANEL SCHEDULE — R1

VOLT/PHASE/WIRE: 120/208V/3PH/4W — AIC RATING: 22,000 AIC — MAIN BREAKER:
MOUNT/ENCLOSURE: SURFACE/NEMA 1 — LOCATION: — MAIN LUGS: 200A

CKT NO	DESCRIPTION	LOAD	AMPS	POLES	A	B	C	POLES	AMPS	LOAD	DESCRIPTION	CKT NO
1	GROCERY FREEZER FANS	1692	20	1	3468			1	20	1776	DAIRY COOLER FANS	2
3	GROCERY FREEZER CONTROLS	500	20	1		1000		1	20	500	DAIRY COOLER CONTROLS	4
5	MEAT COOLER FANS	1164	20	1			2192	1	20	1692	GROCERY FREEZER FANS	6
7	MEAT COOLER FANS	1164	20	1	2856			1	20	1692	GROCERY FREEZER FANS	8
9	MEAT COOLER FANS	1164	20	1		3276		1	20	2112	BAKERY FREEZER FANS	10
11	MEAT FREEZER CONTROLS	500	20	1			1000	1	20	500	BAKERY FREEZER CONTROLS	12
13	MEAT FREEZER FANS	1476	20	1	1908			1	20	432	PRODUCE COOLER FANS	14
15	MEAT FREEZER FANS	1476	20	1		1976		1	20	500	PRODUCE COOLER CONTROLS	16
17	GRINDING COOLER CONTROLS	500	20	1			716	1	20	216	BAKERY COOLER FANS	18
19	GRINDING COOLER FANS	216	20	1	716			1	20	500	BAKERY COOLER CONTROLS	20
21	MEAT PREP FANS	1620	20	1		3899		2	45	2279	BACKUP CU UNIT	22
23	MEAT PREP FANS	1620	20	1			3899	-	-	2279	----------	24
25	MEAT PREP FANS	1620	20	1	3899			2	45	2279	BACKUP CU UNIT	26
27	SEAFOOD COOLER	1164	20	1		3443		-	-	2279	----------	28
29	SEAFOOD COOLER CONTROLS	500	20	1			608	1	20	108	DOUGH AGING COOLER FANS	30
31	PRODUCE COOLER FANS	432	20	1	932			1	20	500	DOUGH AGING COOLER CONTROLS	32
33	PRODUCE COOLER CONTROLS	500	20	1		848		1	20	348	PRODUCE CHEF COOLER FANS	34
35	RACK A CONTROLS	500	20	1			1000	1	20	500	PRODUCE CHEF COOLER CONTROLS	36
37	RACK B CONTROLS	500	20	1	848			1	20	348	GOURMET CHEESE COOLER FANS	38
39	SYSTEM AL6a	1102	20	1		1602		1	20	500	GOURMET CHEESE CONTROLS	40
41	SYSTEM AL6b	702	20	1			1804	1	20	1102	SYSTEM AL1a	42
43	SYSTEM AL6c	702	20	1	1804			1	20	1102	SYSTEM AL1b	44
45	SYSTEM AL6d	517	20	1		1619		1	20	1102	SYSTEM AL1c	46
47	SYSTEM AL7a	1102	20	1			1619	1	20	517	SYSTEM AL1d	48
49	SYSTEM AL7b	702	20	1	1804			1	20	1102	SYSTEM AL2a	50
51	SYSTEM AL7c	702	20	1		1804		1	20	1102	SYSTEM AL2b	52
53	SYSTEM AL7d	517	20	1			1619	1	20	1102	SYSTEM AL2c	54
55	SYSTEM AL8a	702	20	1	1619			1	20	517	SYSTEM AL2d	56
57	SYSTEM AL8b	702	20	1		1804		1	20	1102	SYSTEM AL3a	58
59	SYSTEM AL8c	702	20	1			1804	1	20	1102	SYSTEM AL3b	60
61	SYSTEM AL8d	517	20	1	1619			1	20	1102	SYSTEM AL3c	62
63	SYSTEM AL9a	1102	20	1		1619		1	20	517	SYSTEM AL3d	64
65	SYSTEM AL9b	1102	20	1			2204	1	20	1102	SYSTEM AL4a	66
67	SYSTEM AL9c	903	20	1	2005			1	20	1102	SYSTEM AL4b	68
69	SYSTEM AL10a	1102	20	1		2204		1	20	1102	SYSTEM AL4c	70
71	SYSTEM AL10b	1102	20	1			1619	1	20	517	SYSTEM AL4d	72
73	SYSTEM AL10c	1102	20	1	2204			1	20	1102	SYSTEM AL5a	74
75	SYSTEM AL11a	1102	20	1		1804		1	20	702	SYSTEM AL5b	76
77	SYSTEM AL11b	1102	20	1			1804	1	20	702	SYSTEM AL5c	78
79	SYSTEM AL11c	1102	20	1	1619			1	20	517	SYSTEM AL5d	80
81	SYSTEM AM3	1627	20	1		3473		1	20	1846	SYSTEM AM5	82
83	SYSTEM AM4	1220	20	1			2654	1	20	1434	SYSTEM AM7	84
TOTALS					27,301	30,371	24,542					

TOTAL LOAD: 82,214

LOADS	CONTINUOUS	NON-CONTINUOUS	DEMAND FACTOR/CALCULATION				DEMAND LOAD
EXISTING	0	0	125% x	0			0
LIGHTING	5,516	0	125% x	5516	+ 100% x	0	6,895
RECEPTACLE	0	0	100% x	0	+ 50% x	0	0
MOTOR	0	0	125% x	0	+ 100% x	0	0
FIXED HEAT	0	0	100% x	0			0
A/C	0	0	100% x	0			
KITCHEN EQUIP.	0	62,358	65 % x	62358			40,533
MISC	0	14,340	125% X	0	+ 100% x	14340	14,340
					TOTAL DEMAND LOAD:		61,768 VA
							171 A

PANEL NOTES:
ALL OVERCURRENT PROTECTION DEVICES SHALL HAVE THE SAME AIC RATING AS THE EQUIPMENT THEY ARE LOCATED IN.

PANEL SCHEDULE — R2

VOLT/PHASE/WIRE: 120/208V/3PH/4W — AIC RATING: 22,000 AIC — MAIN BREAKER:
MOUNT/ENCLOSURE: SURFACE/NEMA 1 — LOCATION: — MAIN LUGS: 200A

CKT NO	DESCRIPTION	LOAD	AMPS	POLES	A	B	C	POLES	AMPS	LOAD	DESCRIPTION	CKT NO
1	SYSTEM AM8	860	20	1	1257			1	20	397	SYSTEM BL1	2
3	SYSTEM BM1	166	20	1		563		1	20	397	SYSTEM BL2	4
5	SYSTEM BM2	166	20	1			563	1	20	397	SYSTEM BL3	6
7	SYSTEM BM3	166	20	1	799			1	20	633	SYSTEM BL4	8
9	SYSTEM BM4	818	20	1		1451		1	20	633	SYSTEM BL5	10
11	SYSTEM BM5	1753	20	1			2150	1	20	397	SYSTEM BL6	12
13	SYSTEM BM6	1535	20	1	1803			1	20	268	SYSTEM BL7	14
15	SYSTEM BM7	1480	20	1		2644		1	20	1164	DELI FREEZER FANS	16
17	SYSTEM BM8	1126	20	1			1626	1	20	500	DELI FREEZER CONTROLS	18
19	SYSTEM BM9	1126	20	1	1558			1	20	432	DELI COOLER FANS	20
21	SYSTEM BM10	1126	20	1		1626		1	20	500	DELI COOLER CONTROLS	22
23	SYSTEM BM11	1126	20	1			1126			0	SPACE	24
25	SYSTEM BM12	1126	20	1	1126					0	SPACE	26
27	SYSTEM BM13	263	20	1		263				0	SPACE	28
29	SYSTEM BM14	1235	20	1			1235			0	SPACE	30
31	SYSTEM BM17	564	20	1	564					0	SPACE	32
33	SYSTEM BM18	1202	20	1		1202				0	SPACE	34
35	SYSTEM BM20	1440	20	1			1440			0	SPACE	36
37	SYSTEM BM24	719	20	1	719					0	SPACE	38
39	SYSTEM BM25	408	20	1		408				0	SPACE	40
41	SYSTEM BM26	792	20	1			792			0	SPACE	42
43	SYSTEM BM27	792	20	1	792					0	SPACE	44
45	SYSTEM BM28	792	20	1		792				0	SPACE	46
47	SYSTEM BM29	792	20	1			792			0	SPACE	48
49	SYSTEM BM30	792	20	1	792					0	SPACE	50
51	SYSTEM BM31	792	20	1		792				0	SPACE	52
53	SYSTEM BM32	1080	20	1			1080			0	SPACE	54
55	SPACE	0			0					0	SPACE	56
57	SPACE	0				0				0	SPACE	58
59	SPACE	0					0			0	SPACE	60
61	SPACE	0			0					0	SPACE	62
63	SPACE	0				0				0	SPACE	64
65	SPACE	0					0			0	SPACE	66
67	SPACE	0			0					0	SPACE	68
69	SPACE	0				0				0	SPACE	70
71	SPACE	0					0			0	SPACE	72
73	SPACE	0			0					0	SPACE	74
75	SPACE	0				0				0	SPACE	76
77	SPACE	0					0			0	SPACE	78
79	SPACE	0			0					0	SPACE	80
81	SPACE	0				0				0	SPACE	82
83	SPACE	0					0			0	SPACE	84
TOTALS					9,410	9,741	10,804					

TOTAL LOAD: 29,955

LOADS	CONTINUOUS	NON-CONTINUOUS	DEMAND FACTOR/CALCULATION				DEMAND LOAD
EXISTING	0	0	125% x	0			0
LIGHTING	6,686	0	125% x	6686	+ 100% x	0	8,358
RECEPTACLE	0	0	100% x	0	+ 50% x	0	0
MOTOR	0	0	125% x	0	+ 100% x	0	0
FIXED HEAT	0	0	100% x	0			0
A/C	0	0	100% x	0			
KITCHEN EQUIP.	0	12,669	65 % x	12669			8,235
MISC	0	10,600	125% X	0	+ 100% x	10600	10,600
					TOTAL DEMAND LOAD:		27,192 VA
							75 A

PANEL NOTES:
ALL OVERCURRENT PROTECTION DEVICES SHALL HAVE THE SAME AIC RATING AS THE EQUIPMENT THEY ARE LOCATED IN.

PANEL SCHEDULE — D

VOLT/PHASE/WIRE: 120/208V/3PH/4W — AIC RATING: 22,000 AIC — MAIN BREAKER:
MOUNT/ENCLOSURE: SURFACE/NEMA 1 — LOCATION: — MAIN LUGS: 400A

CKT NO	DESCRIPTION	LOAD	AMPS	POLES	A	B	C	POLES	AMPS	LOAD	DESCRIPTION	CKT NO
1	PRODUCE SOAK SINK	540	20	2	2100			1	20	1560	FOOD PROCESSOR	2
3	----------	540	-	-		2100		1	20	1560	FOOD PROCESSOR	4
5	REC - SU CHEF PREP	720	20	1			1440	1	20	720	REC - SU CHEF PREP	6
7	JUICE MACHINE	756	20	1	6159			3	60	5403	FRYER	8
9	HEATER PROOFER	1440	20	1		6843		-	-	5403	----------	10
11	VENTLESS HOOD	200	20	2			5603	-	-	5403	----------	12
13	----------	200	-	-	200			-----	-----	0	SHUNT	14
15	ROTISSERIE OVEN	3500	50	3		4016		1	15	516	FRIDGE	16
17	----------	3500	-	-			3500	-	-	0	SPACE	18
19	----------	3500	-	-	8903			3	60	5403	BLAST CHILLER	20
21	DOUBLE COFFEE BREWER	3588	50	2		8991		-	-	5403	----------	22
23	----------	3588	-	-			8991	-	-	5403	----------	24
25	DISPOSAL	1056	20	3	6459			3	60	5403	BLAST CHILLER	26
27	----------	1056	-	-		6459		-	-	5403	----------	28
29	----------	1056	-	-			6459	-	-	5403	----------	30
31	PAN WASHER	8406	90	3	10798			2	30	2392	HOT WELLS	32
33	----------	8406	-	-		10798		-	-	2392	----------	34
35	----------	8406	-	-			11526	2	40	3120	CHICKEN MERCHANDISER	36
37	FRYER	5163	60	3	8283			-	-	3120	----------	38
39	----------	5163	-	-		5663		1	20	500	HOOD CONTROLS	40
41	----------	5163	-	-			5663	1	20	500	HOOD CONTROLS	42
43	SHUNT	0	-----	-----	5163			3	60	5163	FRYER	44
45	FRYER	5163	60	3		10326		-	-	5163	----------	46
47	----------	5163	-	-			10326	-	-	5163	----------	48
49	----------	5163	-	-	5163			-----	-----	0	SHUNT	50
51	SHUNT	0	-----	-----		240		1	15	240	CHEF BASE	52
53	FRY HOLDING STATION	1200	15	1			1200	-----	-----	0	SHUNT	54
55	SHUNT	0	-----	-----

LIGHTING RELAY SCHEDULE

I.D.: LCP
LOCATION: DELI AREA
SUPPLY CIRCUIT: L-41
VOLTAGE: 277 V
PART #: LC&D GR1408
ENCLOSURE DIMENSION: 8.4"W X 13.4"H X 3.125"D
NEMA RATING: NEMA 1

RELAY:	LINE FEED:	DESCRIPTION:	LV SW:	NOTES: A	B	C	D	E
1	HP-23	PARKING LIGHTING	-		X	X		
2	HP-25	PARKING LIGHTING	-		X	X		
3	HP-24	FLOODLIGHT LIGHTING	-		X	X		
4	L-1	EXTERIOR LIGHTING	-		X	X		
5	L-2	EXTERIOR LIGHTING	-		X	X		
6	L-9	SALES FLOOR LIGHTING	-	X				
7	L-8	SALES FLOOR LIGHTING	-	X				
8	L-7	SALES FLOOR LIGHTING	-	X				
9	L-6	SALES FLOOR LIGHTING	-	X				
10	L-5	SALES FLOOR LIGHTING	-	X				
11	A-73	VALENCE SIGNS	-	X				
12	L-3	SALES FLOOR LIGHTING	-	X				
13	A-77	SALES FLOOR TRACK	-	X				
14	L-4	ELEVATOR SHAFT LIGHTING	-	X				
15	A-72	TRACK LIGHITNG	-	X				
16	A-70	TRACK LIGHITNG	-	X				
17	A-78	PRODUCE LIGHTING	-	X				
18	A-79	PRODUCE LIGHTING	-	X				
19	A-80	PRODUCE LIGHTING	-	X				
20	A-62	TRACK LIGHITNG	-	X				
21	L-10	SALES FLOOR LIGHTING	-	X				
22	L-11	SALES FLOOR LIGHTING	-	X				
23	A-63	TRACK LIGHITNG	-	X				
24	A-64	TRACK LIGHITNG	-	X				
25	A-65	PRODUCE LIGHTING	-	X				
26	A-66	PRODUCE LIGHTING	-	X				
27	A-67	PRODUCE LIGHTING	-	X				
28	A-75	PRODUCE LIGHTING	-	X				
29	A-68	PRODUCE LIGHTING	-	X				
30	A-69	PRODUCE LIGHTING	-	X				
31	A-60	TRACK LIGHTING	-	X				
32	A-71	EXTERIOR PATIO	-	X				
33	L-31	STOREFRONT SIGNAGE	-	X				
34	L-14	BAKERY LIGHTING	-	X				
35	L-13	DELI LIGHTING	-	X				
36	L-16	BAKERY LIGHTING	-	X				
37	L-18	ESHOP LIGHTING	-	X				
38	L-15	BACK OF AREA LIGHTING	-	X				
39	L-17	MEAT PREP LIGHTING	-	X				
40	L-19	CUSTOMER SERVICE	-	X				
41	L-26	HOLIDAY LIGHTS	-	X				
42	ML-49	TRELLIS LIGHTING	-		X	X		
43	A-20	VALENCE LIGHTING	-	X				
44								
45	ML-50	MEZZANINE TRACK	-	X				
46	ML-51	MEZZANINE TRACK	-	X				
47	ML-53	MEZZANINE TRACK	-	X				
48	L-21	MEZZANINE PENDANT	-	X				

PROGRAMMING NOTES:
A. TIMED ON / TIMED OFF
B. TIMED ON / PHOTOCELL OFF
C. PHOTOCELL ON / TIMED OFF
D. PHOTOCELL ON / PHOTOCELL OFF
E. OTHER

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NO.	VOLTAGE	LAMPING	CONTROL	MOUNTING	LOAD(VA)	DESCRIPTION
TL1	MODALIGHT	MODA 3030 POWERFLEX	240V	LED 319 LUMFT 3500 K	-	COVE	4.3 / FT	COVE LIGHT LINEAR FLEXIBLE LED TAPE INSTALLED IN EXTRUSION AND MOUNTED TO BACK OF VALENCE WHERE SHOWN. PROVIDE ALL REQUIRED TRANSFORMERS ETC FOR FULLY FUNCTIONAL SYSTEM.
DL1	CONTECH	R4NC 2 35K 27 D/C6327-CLR-CLR	120-277V	LED 1400 LUM 3500 K	0-10V	RECESSED	14	4" LED DOWNLIGHT
	LITHONIA	LDN4 35/15LO6AR LSS MVOLT EZ10 WL						
DL1E	SAME AS FIXTURE 'DL1' EXCEPT CONNECTED TO THE BUILDING GENERATOR BACKED PANEL.							
DL2	CONTECH	R6NC 4 35K 27 D/C6327-CLR-CLR	120-277V	LED 2600 LUM 3500 K	0-10V	RECESSED	28	6" LED EXTERIOR DOWNLIGHT.
	LITHONIA	LDN6 35/15LO6AR LSS MVOLT EZ10 WL						
DL2E	SAME AS FIXTURE 'DL2' EXCEPT CONNECTED TO THE BUILDING GENERATOR BACKED PANEL.							
DL3	CONTECH	R6NC 4 35K 27 D/C6327-CLR-CLR	120-277V	LED 1500 LUM 3500 K	0-10V	RECESSED	17.5	6" LED EXTERIOR DOWNLIGHT.
	LITHONIA	LDN6 35/15LO6AR LSS MVOLT EZ10 WL						
GL1	LITHONIA	2BLT4	120-277V	LED 4000 LUM 3500 K	0-10V	RECESSED	32	2X4 VOLUMETRIC TROFFER FIXTURE
	METALUX	24CZ						
	COLUMBIA LIGHTING	LCAT-S						
GL1E	SAME AS FIXTURE 'GL1' EXCEPT CONNECTED TO THE BUILDING GENERATOR BACKED PANEL.							
GL2	LITHONIA	2BLT4	120-277V	LED 5500 LUM 4000 K	0-10V	RECESSED	39	2X4 VOLUMETRIC TROFFER FIXTURE
	METALUX	24CZ						
	COLUMBIA LIGHTING	LCAT-S						
GL2E	SAME AS FIXTURE 'GL2' EXCEPT CONNECTED TO THE BUILDING GENERATOR BACKED PANEL.							
GL3	LITHONIA	2BLT2	120-277V	LED 5000 LUM 4000 K	0-10V	RECESSED	27.5	2X2 VOLUMETRIC TROFFER FIXTURE
	METALUX	22CZ						
	COLUMBIA LIGHTING	LCAT-S						
GL3E	SAME AS FIXTURE 'GL3' EXCEPT CONNECTED TO THE BUILDING GENERATOR BACKED PANEL.							
CL1	GOTHAM	EVO CYL 27/35 6BR WD LD MVOLT EZ10 PM DBL	120-277V	LED 3500 LUM 3500 K	0-10V	PENDANT	42	8" CYLINDER DOWNLIGHT
	CONTECH	CYL8 5 35 MVD P M CLR B						
CL1E	SAME AS FIXTURE 'CL1' EXCEPT CONNECTED TO THE BUILDING GENERATOR BACKED PANEL.							
HL1	LITHONIA	XIB L24 18000LM FRGL MVOLT GZ10 35K 90CRI DBLXD	MVOLT	LED 18000 LUM 3500 K	0-10V	SUSPENDED	113.3	LED HIGH BAY WITH BLACK FINISH.
HL1E	SAME AS FIXTURE 'HL1' EXCEPT CONNECTED TO THE BUILDING GENERATOR BACKED PANEL.							
SL1	LITHONIA	CLX L48 5000LM SEF FDL MVOLT GZ10 40K 80CRI	120-277 V	LED 5000 LUM 4000 K	0-10V	WALL / SUSPENDED	48	4' STRIP LIGHT
	COLUMBIA	LCL4 40ML-EDU						
SL1E	SAME AS FIXTURE 'SL1' EXCEPT CONNECTED TO THE BUILDING GENERATOR BACKED PANEL.							
SL2	LITHONIA	CLX L96 10000LM SEF FDL MVOLT GZ10 40K 80CRI	120-277 V	LED 10,000 LUM 4000 K	0-10V	SUSPENDED	96	8' STRIP LIGHT
	COLUMBIA	LCL8-40ML-EDU						
SL2E	SAME AS FIXTURE 'SL2' EXCEPT CONNECTED TO THE BUILDING GENERATOR BACKED PANEL.							
TR1	CONTECH	NCTL184V	120 V	LED 5900 LUM 2700 K	-	TRACK	47	TRACK MOUNTED LED FLOOD LIGHT WITH WALL WASH DISTRIBUTION. 90CRI
TR2	CONTECH	DCTL825VMG 24 D 27 FA45 LF20-BA	120 V	LED 3424 LUM 2700 K	-	TRACK	32.9	TRACK MOUNTED LED FLOOD LIGHT. 90CRI
VA1	MARK LIGHTING	LS4L LOP 4FT FLP 35K 800 LMF	120-277 V	LED 3400 LUM 3500 K	-	WALL	29	LED VANITY LIGHT.
WLE	LITHONIA	WL4	120-277 V	LED 2000 LUM 3500 K	0-10V	WALL	39.6	4' STAIRWELL LIGHT WITH OCC SENSOR
OWE	LITHONIA	AFF	120-277 V	LED 2500 LUM 4000K	-	WALL	11.3	ARCHITECTURAL EMERGENCY EGRESS LIGHTING WITH LITHIUM IRON PHOSPHATE BATTERY.
	BEGH	MEZLEDSAD						
OW1	LITHONIA	WDGE3 P3 40K R4 MVOLT SRM	120-277 V	LED 10000 LUM 4000 K	-	WALL	71	EXTERIOR TRAPEZOIDAL WALL PACK. VERIFY MOUNTING HT. WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGHT-IN. WITH EM BATTERY.
OW1E	SAME AS FIXTURE 'OW1' EXCEPT CONNECTED TO THE BUILDING GENERATOR BACKED PANEL.							
OW2	COLUMBIA LIGHTING	CYL83 30KMVD WX WXLR B	277 V	LED 2000 LUM 4000 K	0-10V	RECESSED	25	WALL MOUNTED 8" EXTERIOR CYLINDER SCONCE. 24.0 "X 9.1" X 4.3" DIMENSIONS
OW3	TBD	TBD	120-277 V	LED 1700 LUM 4000 K	-	WALL	23	24" EXTERIOR DECORATIVE SCONCE UNDER TRELLIS LIGHTING.
	SUNPARK	3-46-10D-L-D-MCT-05						
OP1	LITHONIA	DSX1	MVOLT	LED 10340 LUM 4000 K	-	GROUND	102.2	SINGLE BLADE LED POLE LIGHT. D SERIES SIXE 1 AREA LUMINAIRE P3 PERFORMANCE PACKAGE. TYPE 4 EXTEREME BACKLIGHT CONTROL.
OP2	LITHONIA	DSX1	MVOLT	LED 27526 LUM 4000 K	-	GROUND	204.4	DUAL BLADE LED POLE LIGHT. D SERIES SIXE 1 AREA LUMINAIRE P3 PERFORMANCE PACKAGE. TYPE 4 EXTEREME BACKLIGHT CONTROL.
OLF	HYDREL LIGHTING	M9700C P3 NSP	120-277V	LED 12500 LUM 4000 K	-	GROUND	102	KNUCKLE MOUNT FLAG POLE FLOOD LIGHT. NARROW SPOT DISTRIBUTION WITH VANDAL GUARD.
EX1	COMPASS PRODUCTS	CEG	120-277V	-	-	WALL / CEILING	3	THERMOPLASTIC EXIT SIGN WITH NICKEL CADMIOUM BATTERY. GREEN LETTERING ONLY BLACK FINISH.
	EVENLITE	TLX-AC-GU-W						
	LITHONIA	LQM S W 3 G 277 EL N						
	EXITRONIX	ILX						
	ELITE LIGHTING	ELX-603-G-W						

NOTES:
1. ALL LIGHT FIXTURES SHOWN HALF SHADED SHALL BE PROVIDED WITH AN EMERGENCY BATTERY PACK CAPABLE OF PROVIDING 90 MIN. OF EGRESS ILLUMINATION.

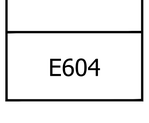
2. ALL LIGHTING VALUE ENGINEERING PROVIDED FOR THIS PROJECT SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER FOR REVIEW AND APPROVAL AFTER THE PROJECT HAS BEEN BID AND AWARDED. ANY CREDITS FOR VE SHALL INCLUDE TIME TO COMPENSATE OUR OFFICE FOR ENGINEERING REVIEW AND VERIFICATION OF BRANCH CIRCUIT LOADING AND/OR ENERGY CODE COMPLIANCE. NO VE SUBMITTALS WILL BE APPROVED WITHOUT THIS PROCESS IN PLACE. VE SUBMITTALS SHALL INCLUDE PHOTOMETRIC ANALYSIS TO ENSURE NEW LIGHT FIXTURES PROVIDE COMPARABLE LIGHT LEVELS TO THOSE ORIGINALLY DESIGNED.

3. PRIOR APPROVALS SHALL BE SUBMITTED TO OUR OFFICE NO LESS THAN 5 BUSINESS DAYS OF THE PROJECT BID DATE. ANYTHING SUBMITTED AFTER THIS TIME FRAME WILL NOT BE REVIEWED AND WILL BE CONSIDERED NON-APPROVED FOR BIDDING PURPOSES. ALL LIABILITY ASSOCIATED WITH NON-APPROVED FIXTURES THAT DO NOT MEET THE PROJECT REQUIREMENTS WILL REST SOLELY WITH THE CONTRACTOR.

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ELECTRICAL ENGINEERS
76 W 13775 S, STE 3
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REVISIONS

MARK	DATE	DESCRIPTION
-	08/28/26	PERMIT SET



HARMONS SPANISH FORK
2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

PROJECT #:	26107
SHEET SIZE:	30"x42"
DATE:	8/28/26
DRAWN BY:	NF,MS,ZF
CHECKED BY:	ES

SHEET TITLE:

ELECTRICAL SCHEDULES

E604

KEYED NOTES

1. PROVIDE A NAME PLATE ON EACH ELECTRICAL PANEL AND SERVICE DISCONNECT WITH AVAILABLE FAULT CURRENT AND THE DATE WHICH THE CALCULATIONS WERE PERFORMED (08/13/25) PER NEC 110.24.

GENERAL NOTES

A. COORDINATE MOUNTING HEIGHTS OF ALL EQUIPMENT WITH ARCHITECTURAL DRAWINGS AND MILL WORK CONTRACTOR PRIOR TO ROUGH IN.
B. VERIFY AND COORDINATE EXACT ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT WITH MANUFACTURER'S RECOMMENDATIONS PRIOR TO INSTALLATION OF EQUIPMENT.
C. MANUFACTURER/EC TO PROVIDE AN ADD ALTERNATE PRICE TO INCLUDE AN ARC FLASH STUDY IF/WHERE A STUDY IS REQUIRED.

CONDUIT/CONDUCTOR SCHEDULE

MARK	AMPS	CONDUIT	CU/AL	CONDUCTORS (TOTAL)			NOTES
				PHASE	NEUTRAL	GROUND	
36	50	1"	CU	(3) 6	-	10	2
301	100	1.5"	AL	(2) 1/0	1/0	6	2
401	100	1.5"	AL	(3) 1/0	1/0	6	2
403	150	2"	AL	(3) 3/0	3/0	4	2
425	200	2"	AL	(3) 250	250	4	2
330	230	2.5"	AL	(3) 300	-	2	2
335	250	3"	AL	(3) 350	-	2	2
435	250	3"	AL	(3) 350	350	2	2
450	300	4"	AL	(3) 500	500	2	2
2425	400	(2) 2.5"	AL	(6) 250	(2) 250	(2) 1	2
4335	1000	(4) 3"	AL	(12) 350	-	(4) 4/0	2
4450	1200	(4) 4"	AL	(12) 500	(4) 500	(4) 3/0	2
7450	2000	(7) 4"	AL	(21) 500	(7) 500	(7) 400	2
66	-	(6) 6"	-	-	-	-	1
8G	-	-	CU	-	-	8	3
6G	-	-	CU	-	-	6	3
03G	-	-	CU	-	-	3\0	3

NOTES:

1. CONTRACTOR TO PROVIDE SERVICE LATERAL CONDUIT FROM THE TRANSFORMER TO THE METER. CONDUCTORS ARE TO BE PROVIDED INSTALLED AND TERMINATED BY RMP.
2. CONDUCTOR INSULATIONS TO BE RATED THWN-2/THHN 90°C.
3. GROUNDING ELECTRODE CONDUCTOR TO BE BONDED TO ALL AVAILABLE GROUNDING ELECTRODES.

FAULT CURRENT CALCULATIONS							
480 Volts							
Panel	SES	MDP	EH	L	MH1	MH2	DH
Feed From	UTIL XFMR	SES	MDP	MDP	MDP	MDP	MDP
Available Fault Current	42553	41126	34813	34813	34813	34813	34813
(L) Length to panel	29	183	38	28	28	28	295
Conduit Type (P,S)	P	P	S	S	S	S	S
Conductor Size	500	500	1\0	250	250	250	250
Conductor Type (c,a)	A	A	A	A	A	A	A
No of Runs	6	7	1	1	2	2	1
C - from chart	21391	21391	5777	12122	12122	12122	12122
Voltage	480	480	480	480	480	480	480
f	0.03469385	0.18136226	0.82627212	0.29015204	0.14507602	0.14507602	3.05695896
m	0.96646945	0.8464804	0.54756352	0.77510245	0.87330447	0.87330447	0.24649005
I s.c. at Panel	41126	34813	19062	26983	30402	30402	8581

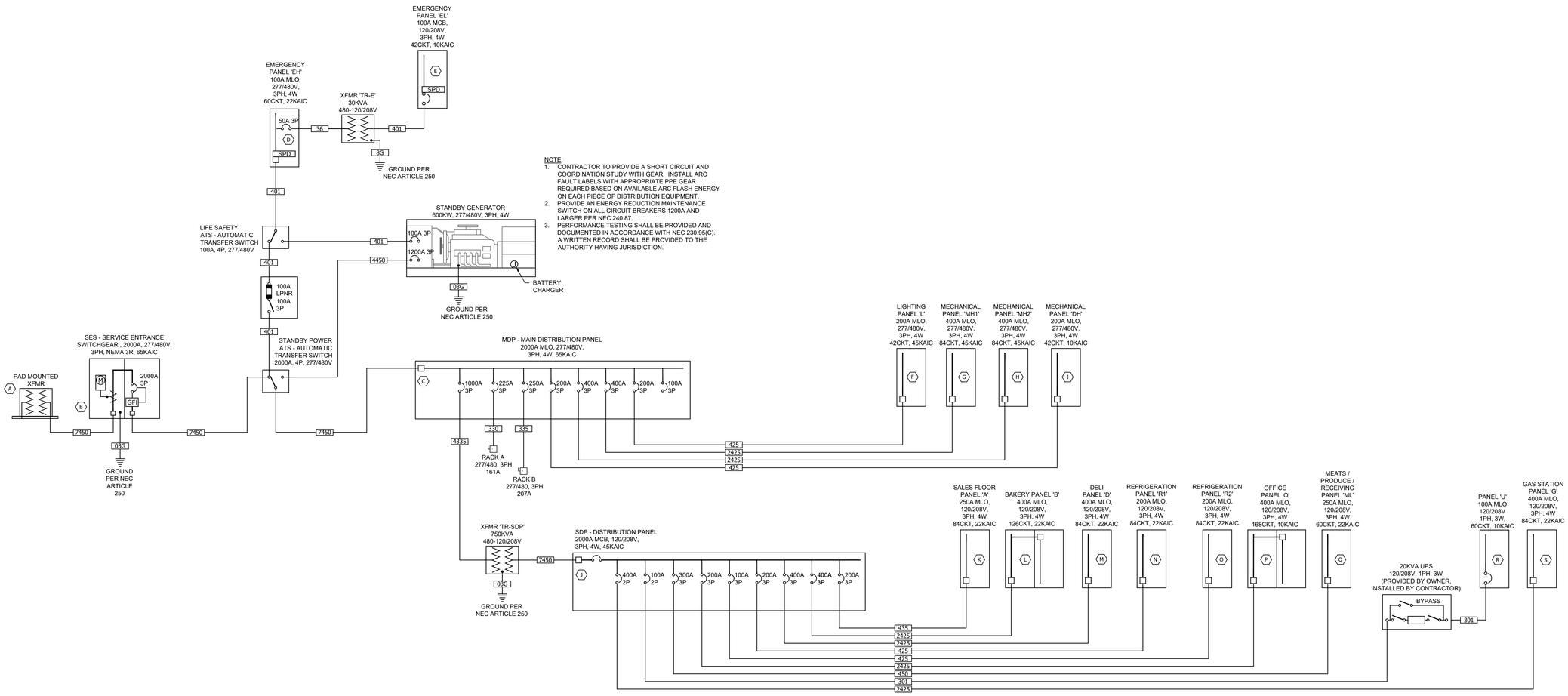
FAULT CURRENT CALCULATIONS		
Transformer	TR-E	TR-SDP
Feed From	EH	MDP
Is.c. Primary	19062	34813
%Z	5	5
KVA	30	750
Constant	100000	100000
Primary Voltage	480	480
Secondary Voltage	208	208
f	26.4123842	1.92944804
m	0.03647986	0.34136123
I s.c. at secondary	1605	27424

FAULT CURRENT CALCULATIONS												
208 Volt												
Panel	EL	SDP	A	B	D	R1	R2	O	ML	U	G	
Feed From	TR-E	TR-SDP	SDP	SDP	SDP	SDP	SDP	SDP	SDP	SDP	SDP	
Available Fault Current	1605	27424	27047	27047	27047	27047	27047	27047	27047	27047	27047	27047
(L) Length to panel	8	8	28	308	310	45	47	233	29	231	320	
Conduit Type (P,S)	S	S	S	S	S	S	S	S	S	S	S	
Conductor Size	1\0	500	350	250	250	250	250	250	500	1\0	250	
Conductor Type (c,a)	A	A	A	A	A	A	A	A	A	A	A	
No of Runs	1	7	1	2	2	1	1	2	1	1	2	
C - from chart	5777	18756	15484	12122	12122	12122	12122	12122	18756	5777	12122	
Voltage	208	208	208	208	208	208	208	208	208	208	208	
f	0.01850431	0.01391437	0.40727286	2.86125813	2.87983773	0.83608192	0.87324112	2.1645232	0.34823176	9.00575672	2.97273572	
m	0.98183187	0.98627658	0.71059425	0.25898294	0.25774274	0.54463801	0.53383411	0.31600337	0.74171224	0.09994247	0.25171571	
I s.c. at Panel	1576	27047	19220	7005	6971	14731	14439	8547	20061	2703	6808	

AVAILABLE FAULT CURRENTS

- (A) ESTIMATED 42,553A
- (B) 41,126A
- (C) 34,813A
- (D) 19,062A
- (E) 1,576A
- (F) 26,983A
- (G) 34,402A
- (H) 30,402A
- (I) 8,581A
- (J) 27,047A
- (K) 19,220A
- (L) 7,005A
- (M) 6,971A
- (N) 14,731A
- (O) 14,439A
- (P) 8,547A
- (Q) 20,061A
- (R) 2,703A
- (S) 6,808A

NOTE:
1. CONTRACTOR TO PROVIDE A SHORT CIRCUIT AND COORDINATION STUDY WITH GEAR. INSTALL ARC FAULT LABELS WITH APPROPRIATE PPE GEAR REQUIRED BASED ON AVAILABLE ARC FLASH ENERGY ON EACH PIECE OF DISTRIBUTION EQUIPMENT.
2. PROVIDE AN ENERGY REDUCTION MAINTENANCE SWITCH ON ALL CIRCUIT BREAKERS 1200A AND LARGER PER NEC 240.87.
3. PERFORMANCE TESTING SHALL BE PROVIDED AND DOCUMENTED IN ACCORDANCE WITH NEC 230.95(C). A WRITTEN RECORD SHALL BE PROVIDED TO THE AUTHORITY HAVING JURISDICTION.



1 E701 ONE-LINE DIAGRAM
NO SCALE

elemental ELECTRICAL ENGINEERS
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(801) 618-9656
eric@elementalelectricalengineers.com

REVISIONS

MARK	DATE	DESCRIPTION
-	08/28/26	PERMIT SET

PROFESSIONAL ENGINEER REGISTERED No. 7057562-2202 ERIC D. SMITH 08/28/26 STATE OF UTAH

HARMONS SPANISH FORK

2643 EAST, 400 NORTH
SPANISH FORK, UT 84660

PROJECT #:	26107
SHEET SIZE:	30"x42"
DATE:	8/28/26
DRAWN BY:	NF,MS,ZF
CHECKED BY:	ES
SHEET TITLE:	

ONE-LINE DIAGRAM

E701