7800 LOGISTICS W. JORDAN

GO INDUSTRIAL

4555 W 7800 S (BLDG.1) & 7888 Airport Road (BLDG.2), WEST JORDAN, UTAH 84088

CONSTRUCTION DOCUMENTS

02/27/2026

PROJECT INFORMATION

OWNER:
GO INDUSTRIAL
PRESTON PRUETT
3200 E CAMELBACK RD. STE. 298
PHOENIX, AZ 85018
PH: 480-258-0414

CIVIL:
DOMINION ENGINEERING ASSOCIATES, L.C.
ATTN: LOGAN TERRY
5684 SOUTH GREEN ST.
MURRAY, UT 84123
PH: 801-713-3000

LANDSCAPE:
HILLMAN WORKSHOP
ATTN: AARON HILLMAN
2901 E HIGHLAND AVE
PHOENIX, AZ 85016
PH: 480-686-2001

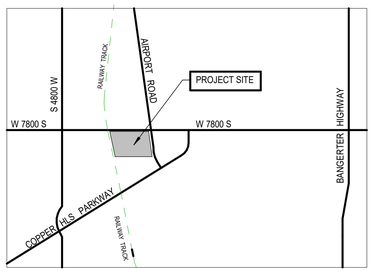
ARCHITECT:
DLR GROUP
ATTN: TIM THIELKE
6225 N 24TH STREET, SUITE 250
PHOENIX, AZ 85016
PH: 480-206-7727

STRUCTURAL:
HSA & ASSOCIATES
ATTN: AMIN AKBARI
301 N. LAKE AVE., SUITE 500
PASADENA, CA 91101
PH: 626-521-6042

MECHANICAL/PLUMBING:
MECHANICAL DESIGNS, INC.
ATTN: SCOTT CARLSON, PROJECT MANAGER
7227 N. 16TH STREET, SUITE 200,
PHOENIX, AZ 85020
PH: 602-943-6608

ELECTRICAL:
HAWKINS DESIGN GROUP INC.
ATTN: MINDY HAWKINS ADLER, PROJECT MANAGER
1140 WEST HARWELL ROAD
GILBERT, AZ 85233
PH: 480-813-9000

VICINITY MAP



VICINITY MAP
NORTH

DEFERRED SUBMITTALS

- FIRE SPRINKLER
- FIRE ALARM
- FIRE LINE
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- GATES
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E2.0	ELECTRICAL BUILDING 2 PLAN
E2.1	BUILDING 2 ELECTRICAL ONE-LINE DIAGRAM
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ES2.0	ELECTRICAL SITE PHOTOMETRIC PLAN
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BOTH CIVIL AND LANDSCAPE SHEET INDEXES ARE SHOWN HERE FOR REFENCE ONLY. THEY ARE SUBMITTED UNDER SITE PLAN APPLICATION

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L1.2	PLANTING PLAN
L1.3	PLANTING PLAN
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L2.1	IRRIGATION PLAN
L2.2	IRRIGATION PLAN
L2.3	IRRIGATION PLAN
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in site plan package

APPLICABLE CODES / GUIDLINES

APPLICABLE CODES, REGULATIONS AND DESIGN POLICIES:

2021 INTERNATIONAL BUILDING CODE (including Appendix C & J)
2021 INTERNATIONAL FIRE CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL FUEL AND GAS CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
2021 INTERNATIONAL PLUMBING CODE
2020 NATIONAL ELECTRICAL CODE
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
NFPA 13: STANDARD FOR THE INSTALLLATION OF FIRE SPRINKLER SYSTEM

SCOPE OF CONSTRUCTION

THE SCOPE OF WORK IS TO DEVELOPE 2 WAREHOUSE BUILDINGS ON A 14.34 ACRE LOT ON THE 4501 W 7800 S, WEST JORDAN. THE SUBMITTAL INCLUDES 2 SHELL BUILDINGS THAT ARE ±217,362 IN TOTAL GROSS AREA - 131,106 S.F. + 86,256 S.F. AND ON-SITE INFRASTRUCTURE FOR THE FACILITIES.

OCCUPANCY CLASSIFICATION: S-1 (WAREHOUSE)

CONSTRUCTION TYPE: TYPE 2-B

CITY OF WEST JORDAN APPROVAL

DLRGROUP
© DLR Group

STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
02-27-2026
LICENSED ARCHITECT

KIVA: 23-1213
Q.S.: Q9-31
PRLM: 2401758
SCMJ: 2403611
LSPL: TBD
LSIS: TBD
REZONE:Z-67-88
CPGD # 2403898
QS # 9-31
PLAT # 240035

Notice of Extended Payment Provision
This contract allows the owner to make payment within 16 days after certification and approval of billings and estimates for progress payments, within 16 days after certification and approval of billings and estimates for release of retention and within 16 days after certification and approval of billings and estimates for final payment.

7800 LOGISTICS W. JORDAN
GO INDUSTRIAL
4555 W 7800 S (BLDG.1) & 7888 Airport Road (BLDG.2).
WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

29-26101-00

COVER SHEET

G0.1

Autodesk Docs://29-26101-00 GO Industrial-7800 Logistics N/29-26101-00 GO_7800 Logistics_West Jordan_AR_2024.rvt
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GENERAL ABBREVIATIONS

#	NUMBER
&	AND
@	AT
ADA	AMERICANS WITH DISABILITY ACT
ADDN	ADDITION OR ADDITIONAL
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
BLDG	BUILDING
BSMT	BASEMENT
CL	CENTER LINE
CLG	CEILING
CM	CENTIMETER
CONC	CONCRETE
CONN(S)	CONNECTION(S)
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACT(OR)
CTR	CENTER
D	DEPTH
DEG	DEGREE
DEMO	DEMOLISH OR DEMOLITION
DIA	DIAMETER
DIM	DIMENSION
DIV	SPECIFICATION DIVISION
DN	DOWN
DTL	DETAIL
DWG(S)	DRAWING(S)
E	EAST
EA	EACH
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
ELEC	ELECTRICAL
ENG	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
EXST	EXISTING
EXT	EXTERIOR
FIN	FINISHED
FL	FLOOR
FT	FEET
FUT	FUTURE
GC	GENERAL CONTRACTOR
GOVT	GOVERNMENT
H	HEIGHT
HORIZ	HORIZONTAL
HT	HEIGHT
i.e.	THAT IS
IBC	INTERNATIONAL BUILDING CODE
IN	INCH
INT	INTERIOR
LB(S)	POUND(S)
M	METER
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MM	MILLIMETER
N	NORTH
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OPP	OPPOSITE
OVHD	OVERHEAD
PAR	PARALLEL
PENT	PENTHOUSE
PLYWD	PLYWOOD
QTY	QUANTITY
REQ(D)	REQUIRE(D)
REV	REVISION(S)
RM	ROOM
RND	ROUND
S	SOUTH
SCHED	SCHEDULE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION(S)
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SYM	SYMETRICAL
TEMP	TEMPORARY
TYP	TYPICAL
UNEX	UNEXCAVATED
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W	WEST
W/	WITH
W/O	WITHOUT

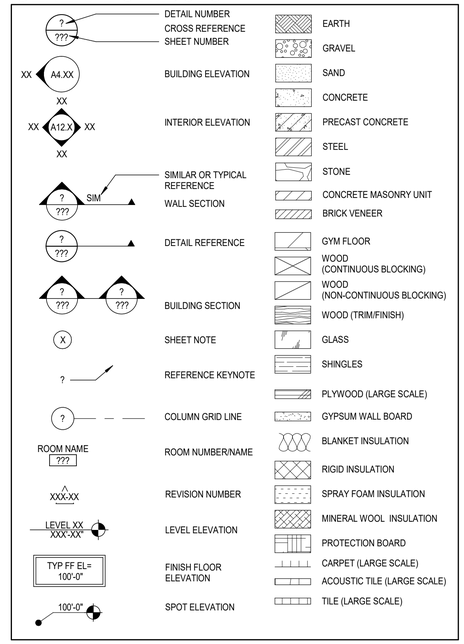
ARCHITECTURAL ABBREVIATIONS

A/E	ARCHITECT/ENGINEER
AB	AIR BARRIER
ABS	ASBESTOS
ACC	ADA ACCESSIBLE
ACR	ACRYLIC
ACT	ACOUSTIC CEILING TILE
AD	ACCESS DOOR
ADJ	ADJUSTABLE
ADJT	ADJACENT
ADMIN	ADMINISTRATION
AEC	AUTOMATED EXTERNAL DEFIBRILLATORS
AL	ALUMINUM
ALUM	ALUMINUM
AP	ACCESS PANEL
APC	ACOUSTIC PANEL CEILING
ASPH	ASPHALT
AUTO	AUTOMATIC
AVG	AVERAGE
AWP	ACOUSTIC WALL PANEL
B.O.	BOTTOM OF
BCS	BABY CHANGING STATION
BD	BOARD
BLK	BLOCK
BLKG	BLOCKING
BLKHD	BULKHEAD
BM(S)	BEAM(S)
BOT	BOTTOM
BRDG	BRIDGING
BRG	BEARING
BRKT	BRACKET
BT	BATHTUB
BTWN	BETWEEN
CAB	CABINET
CBD	CHALKBOARD
CER	CERAMIC
CF	CUBIC FEET
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFMF	COLD-FORMED METAL FRAMING
CGD	CORNER GUARD
CI	CAST IRON
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CJA	CONTROL JOINT ABOVE
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COM	COMMON
COMB	COMBINATION
COMM	COMMUNICATIONS
COMPR	COMPRESSIBLE
CONF	CONFERENCE
CONFIG	CONFIGURATION
CORR	CORRIDOR
CP	COVER PLATE
CPT	CARPET
CR	CHAIR RAIL
CS	COUNTERSINK
CSTJ	CONSTRUCTION JOINT
CSWK	CASEWORK
CT	CERAMIC TILE
CU	COPPER
CU	COMBINATION UNIT
CV	CONDOM VENDOR
CY	CUBIC YARD
CYL	CYLINDER
DB	DECIBEL
DBL	DOUBLE
DC	DUST COLLECTOR
DEPR	DEPRESS(ION)(ED)
DEPT	DEPARTMENT
DET	DETENTION
DF	DRINKING FOUNTAIN
DG	DOOR GRILLE
DIAG	DIAGONAL
DPFG	DAMPROOFING
DR	DOOR
DSN	DOWNSPOUT NOZZLE
DW	DISHWASHER
DWL(S)	DOWEL(S)
DWR	DRAWER
EB	EXPANSION BOLT
EE	EACH END
EEW	EMERGENCY EYE WASH
EEWS	EMERGENCY EYE WASH SHOWER
EFF	EFFICIENCY
EJ	EXPANSION JOINT
ELAS	ELASTOMERIC
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
ENTR	ENTRANCE
ERF	EPOXY RESIN FLOORING
EUI	ENERGY USE INTENSITY
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXP	EXPANSION
EXP	EXPOSED
F	FABRIC
F.O.	FACE OF
FAB	FABRICATE(D)
FB	FACE BRICK
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIG	FIGURE
FIX	FIXTURE
FLASH	FLASHING
FLEX	FLEXIBLE
FLG	FLOORING
FLM	FULL LENGTH MIRROR
FLUOR	FLUORESCENT
FO	FINISH OPENING
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FP	FIREPROOFING
FR	FIRE RESISTANT
FRP	FIBERGLASS REINFORCED PANEL
FRT	FIRE RESISTANCE TREATED
FS	FLOOR SINK
FSS	FOLDING SHOWER SEAT
FTG	FOOTING
FVC	FIRE VALVE CABINET
FWC	FABRIC WALL COVERING
G	GROUT
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GD	GARBAGE DISPOSAL
GEN	GENERAL
GFA	GROSS FLOOR AREA
GL	GLUE LAMINATED
GMP	GUARANTEED MAXIMUM PRICE
GR	GUARD RAIL
GR	GRADE
GRS	GALVANIZED RIGID STEEL
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HC	HOLLOW CORE
HD	HAND DRYER
HDF	HIGH DENSITY FIBERBOARD
HDR	HEADER
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HR	HOUR
HR	HANDRAIL
HS	HARDWARE SET
HSS	HOLLOW STRUCTURAL SHAPE
HVAC	HEATING VENTILATING AND AIR CONDITIONING
IAW	IN ACCORDANCE WITH
ID	INSIDE DIAMETER
IF	INSIDE FACE
IJ	ISOLATION JOINT
IJS	IN JOIST SPACE
INC	INCLUDE(ING)
INSUL	INSULATION
JAN	JANITOR
JBE	JOIST BEARING ELEVATION
JBX	JUNCTION BOX
JCT	JUNCTION
JFB	JOINT FILLER BOARD
JST	JOIST
JT	JOINT
KCJ	KEYED CONSTRUCTION JOINT
KD	KNOCKDOWN
KH	KITCHEN HOOD
KIT	KITCHEN
L	ANGLE
LAB	LABORATORY
LAM	LAMINATED
LAV	LAVATORY
LBR	LUMBER
LDG	LOADING
LF	LINEAR FOOT
LG	LENGTH (LONG)
LIN	LINEAR
LINO	LINOLEUM
LKR	LOCKER
LOC	LOCATION
LONG	LONGITUDINAL
LSC	LIFE SAFETY CODE
LTG	LIGHTING
LV	LOUVER
LVT	LUXURY VINYL TILE
MAG	MAGNETIC
MAINT	MAINTENANCE
MAN	MANUAL
MAS	MASONRY
MATL	MATERIAL
MB	MOP BASIN
MBD	MARKER BOARD
MBH	MOP/BROOM HOLDER
MC	MEDICINE CABINET
MEMB	MEMBRANE
MH	MANHOLE
MR/S	MIRROR WITH SHELF
MTD	MOUNTED
MTG	MOUNTING
MUL	MULLION
NC	NOISE CRITERIA
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NOM	NOMINAL
O to O	OUT TO OUT
OA	OVERALL
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OPPOSITE HAND
OPG(S)	OPENING(S)
OSHA	OPERATIONAL SAFETY AND HEALTH ADMINISTRATION
OTB	OPEN TO BELOW
OVFL	OVERFLOW
P	PAINT
PAN B	PANIC BOLT
PB	PARTICLE BOARD
PC	PRECAST CONCRETE
PCD	PAPER CUP DISPENSER
PCT	PORCELAIN CERAMIC TILE
PD	PANIC DEVICE
PERF	PERFORATED
PERP	PERPENDICULAR
PIC	PORTABLE INSTRUMENT CONNECTION
PL	PLATE
PL	PROPERTY LINE
PL	PLASTIC LAMINATE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PR	PAIR
PREFAB	PREFABRICATED
PROJ	PROJECT(OR) (ION)
PS	PROJECTION SCREEN
PT	POINT
PT	POINT OF TANGENCY
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PWL	SOUND POWER LEVEL
QGV	QUAD GAS VALVE
QT	QUARRY TILE
QTR RND	QUARTER ROUND
R	RISER
RAD	RADIUS
RB	RUBBER BASE
RC	REMOTE CONTROL
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
REFL	REFLECTED
REM	REMOVABLE
RESIL	RESILIENT
RF	RESILIENT FLOORING
RF	RUBBER FLOOR
RFM	RECESSED FLOOR MAT
RH	ROBE HOOK
RI&C	ROUGH IN AND CONNECT
S	SINK
SAT	SPRAYED ACOUSTIC TREATMENT
SAW	SOUND ABSORBING WALL UNITS
SB	SPLASH BLOCK
SC	SOLID CORE
SC	SHOWER CURTAIN
SCD	SEAT COVER DISPENSER
SCH	SHOWER CURTAIN HOOK
SCR	SHOWER CURTAIN ROD
SCT	STRUCTURAL CLAY TILE
SD	SOAP DISPENSER
SECY	SECRETARY
SF	SQUARE FEET
SGL	SINGLE
SGV	SINGLE GAS VALVE
SH	SHOWER
SHM	SECURITY HOLLOW METAL
SLNT	SEALANT
SM	SHEET METAL
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SO	SENSOR OPERATED
SPL	SOUND PRESSURE LEVEL
SQ	SQUARE
SR	SURFACE MOUNTED ELECTRICAL RACEWAY
SS	SOLID SURFACE
SSA	STORM SHELTER AREA
SSM	SOLID SURFACE
SSS	STAINLESS STEEL SHELF
SST	STAINLESS STEEL
ST	STONE
ST	STAIR
STAG'D	STAGGERED
STC	SOUND TRANSMISSION CLASS
STGR	STRINGER
SUBFL	SUBFLOOR
SUL	SULPHUR
SURF	SURFACE
SUSP	SUSPENDED
SVF	SHEET VINYL FLOORING
SVF	SERVICE FIXTURE
SVG	SERVICE FIXTURE GROUP
T	TREAD
T	TEMPERED GLASS
T&G	TONGUE AND GROOVE
T.O.	TOP OF
TAN	TANGENT
TB	TOWEL BAR
TBD	TACK BOARD
TCP	TOILET COMPARTMENT PARTITION
TERR	TERRAZZO
TH	THRESHOLD
THK	THICK(NESS)
TI	TENANT IMPROVEMENT
TMR	TILT MIRROR UNIT
TOIL	TOILET
TOP	TOP OF PAVING
TRANS	TRANSVERSE
TT	TERRAZZO TILE
TTD	TOILET TISSUE DISPENSER
TW	TACK WALL
UL	UNDERWRITERS LABORATORIES
UR	URINAL
US	UTILITY SHELF
UTIL	UTILITY
VB	VAPOR BARRIER
VB	VINYL BASE
VCB	VENTED COVE BASE
VF	VINYL FLOOR
VOC	VOLITILE ORGANIC COMPOUND
VOL	VOLUME
VP	VENEER PLASTER
VT	VINYL TILE
VWC	VINYL WALL COVERING
W	WIDE
WB	WALL BASE
WC	WATER CLOSET
WC	WALL COVERING
WCL	WATER CLOSET/LAVATORY COMBINATION
WD	WOOD
WDF	WOOD FLOORING
WDW	WINDOW
WI	WROUGHT IRON
WOM	WALK OFF MAT
WR	WASTE RECEPTACLE
WRB	WEATHER RESISTANT BARRIER
WW	WARM WHITE
WWF	WELDED WIRE FABRIC
YD	YARD

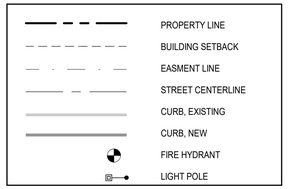
GENERAL NOTES

A. GENERAL NOTES APPLY TO ALL SHEETS.
B. DIMENSIONS ARE ACTUAL AND ARE TO FACE OF STUDS, FACE OF CONCRETE WALLS, FACE OF CMU WALLS, FACE OF FRAMES, OR CENTERLINE OF COLUMNS, UNLESS NOTED OTHERWISE.
C. INCLUDE ALL OWNER-FURNISHED AND INSTALLED ITEMS AND OWNER-FURNISHED AND CONTRACTOR-INSTALLED ITEMS IN THE CONSTRUCTION SCHEDULE, AND SHALL COORDINATE WITH THE OWNER TO ACCOMMODATE THESE ITEMS.
D. COORDINATE ALL MECHANICAL CHASE SIZES WITH THE MECHANICAL CONTRACTOR.
E. COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS THE SIZE AND LOCATION OF EQUIPMENT PADS SHOWN ON PLANS.
F. WORK: ALL ASPECTS OF THE WORK AND ITEMS NOT SPECIFICALLY MENTIONED, BUT NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED AND INDICATED IN THE CONTRACTOR'S BID.
G. GENERAL SHEET NOTES ONLY APPLY TO PARTICULAR DRAWING OR SERIES OF DRAWINGS.
H. NO ASBESTOS OR PCB CONTAINING MATERIALS SHALL BE USED ON THIS PROJECT.
I. DO NOT SCALE DRAWINGS. DIMENSIONS NOTED PREVAIL. NOTIFY ARCHITECT IN CASE OF DISCREPANCY.
J. HORIZONTAL AND VERTICAL DIMENSIONS ARE MINIMUM DIMENSIONS. CLEARANCES ARE GIVEN TO FINISH SURFACES. GC TO VERIFY ALL CLEARANCES. NOTIFY ARCHITECT IN CASE OF DISCREPANCY.

GENERAL SYMBOLS



SITE SYMBOLS



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STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
02-27-2026
LICENSED ARCHITECT

KIVA: 23-1213
Q.S.: Q9-31
PRLM: 2401758
SCMJ: 2403611
LSPL: TBD
LSIS: TBD
REZONE:Z-67-88
CPGD # 2403898
QS # 9-31
PLAT # 240035

Notice of Extended Payment Provision
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7800 LOGISTICS W. JORDAN

GO INDUSTRIAL

4555 W 7800 S (BLDG 1) & 7888 Airport Road (BLDG 2)
WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

29-26101-00

GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

G1.1

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BUILDING INFORMATION

PROJECT:
7800 LOGISTICS W JORDAN
4555 (BLDG.1) & 7888 (BLDG.2) W 7800 S
WEST JORDAN, UTAH 84088

APPLICABLE CODES, REGULATIONS AND DESIGN POLICIES:

2021 INTERNATIONAL BUILDING CODE (including Appendix C & J)
2021 INTERNATIONAL FIRE CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL FUEL AND GAS CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
2021 INTERNATIONAL PLUMBING CODE
2020 NATIONAL ELECTRICAL CODE
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
NFPA 13: STANDARD FOR THE INSTALLLATION OF FIRE SPRINKLER SYSTEM

GENERAL ASSUMPTIONS AND BUILDING CHARACTERISTICS:

- THIS ARE NON-OCCUPIED SHELL BUILDINGS
- THE BUILDING WILL BE FULLY PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM.

BUILDING CHARACTERISTICS:

BUILDING HEIGHT:	40'-0"
NUMBER OF STORIES:	1
BUILDING AREA: (Bldg.1 - 131,106 SF + Bldg.2 - 86,256 SF)	217,362 S.F. GROSS.
S-1 (WAREHOUSE): (Bldg.1 - 129,023 SF + Bldg.2 - 85,992 SF)	215,015 S.F. NET

CH3: GENERAL BUILDING HEIGHTS & AREAS:

303.1.2 SMALL ASSEMBLY SPACES. THE FOLLOWING ROOMS AND SPACES SHALL NOT BE CLASSIFIED AS ASSEMBLY OCCUPANCIES:
1.A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES WITH AN CCUPANT LOAD OF LESS THAN 50 PERSONS AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.
2.A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES THAT IS LESS THAN 750 SQUARE FEET (70 M2) IN AREA AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.

CH5: GENERAL BUILDING HEIGHTS & AREAS:

THE ALLOWBALE HEIGHT AND PER-FLOOR AREAS FOR GROUP S-1 OCCUPANCY, TYPE V-B CONSTRUCTION AND FULLY SPRINKLERED:

MAX HEIGHT (TABLE 504.3 WITH SECTION 504.3):	**60'-0"**
MAX STORIES (TABLE 504.4 WITH SECTION 506): *1 STORY ALLOWED DUE TO THE EXCEPTION USED BELOW	**2***

SECTION 508.2.3 ACCESSORY USE NOT MORE THAN 10% OF FLOOR AREA:

BUILDING 1: 550 SF / 129,715 SF = 0.004 = 0.4%
BUILDING 2: 227 SF / 86,219 SF = 0.003 = 0.3%

ALLOWABLE HEIGHT AND AREA INCREASES OF THIS PROJECT MEETS THE REQUIREMENTS TO QUALIFY FOR "UNLIMITED" ALLOWABLE AREA PER I.B.C. SECTION 507.4. BUILDING IS FULLY SPRINKLERED PER NFPA-13.

CH6: TYPES OF CONSTRUCTION:

CONSTRUCTION TYPE II-B, S-1 OCCUPANCY

PRIMARY STRUCTURAL FRAME	**0 hour**	.
EXTERIOR BEARING WALLS	**0 hour**	.
INTERIOR BEARING WALLS	**0 hour**	.
EXTERIOR NON-BEARING WALLS	**0 hour**	**X > 30**
INTERIOR NON-BEARING WALLS	**0 hour**	.
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	**0 hour**	. .
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	**0 hour**	

Ch7: FIRE AND SMOKE PROTECTION FEATURES

705.2.1 TYPE I AND II CONSTRUCTION SHALL BE OF NONCOMBUSTIBLE MATERIALS OR COMBUSTIBLE MATERIALS AS ALLOWED BY SECTIONS 705.2.3.1 AND 705.2.4.

Ch8: INTERIOR FINISHES:

FLAME SPREAD INDEX FOR S-1 OCCUPANCY, FULLY SPRINKLERED (TABLE 803.13):

- CLASS C FOR INTERIOR EXIT STAIRWAYS, INTERIOR EXIT RAMPS AND EXIT PASSAGEWAYS
- CLASS C FOR CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS
- CLASS C FOR ROOMS AND ENCLOSED SPACES

Ch9: FIRE PROTECTION SYSTEMS:

- THIS BUILDING IS FULLY SPRINKLERED IN ACCORDANCE WITH NFPA 13 SPRINKLER SYSTEMS (903.2.4 & 903.2.9)
- OBSTRUCTED LOCATIONS: AUTOMATIC SPRINKLERS TO BE INSTALLED IN OR UNDER COVERED ELEMENTS WIDER THAN 4' (903.3.3)
- FIRE SPRINKLER MONITORING SYSTEMS REQUIRED (SECTION 903.4)
- PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED IN ACCORDANCE WITH THE 2012 IBC SECTION 906
- PER NFPA 13 SECTION 8.15.7.2 SPRINKLERS ARE NOT REQUIRED AT CANOPIES, ROOFS, PORTE-COCHERES, BALCONIES, DECKS OF SIMILAR PROJECTION IF CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS; HOWEVER, EXTERIOR CEILINGS ABOVE OCCUPIED SPACES REQUIRE SPRINKLERS (A.8.15.7.2)

Ch10: MEANS OF EGRESS:

CEILING HEIGHT SECTION 1003.2	7'-6" MINIMUM; EXCEPT MEZZANINE CLEAR HEIGHT ABOVE AND BELOW 7'-0" (SECTION 505.2), STAIR HEADROOM 80" (1011.3) & DOOR HEIGHT 80" (1003.3.1)
MEANS OF EGRESS CONTINUITY SECTION 1003.6	THE PATH OF EGRESS SHALL NOT BE INTERRUPTED OR DIMINISHED IN REQUIRED CAPACITY OR MINIMUM WIDTH.
OCCUPANT LOAD TABLE 1004.5	• 500 GROSS FOR WAREHOUSE • 300 GROSS FOR UTILITY / STORAGE
NUMBER OF EXITS / EXIT ACCESS TABLE 1006.3.2	1 EXIT: <50 OCCUPANTS 2 EXITS: 50>OL<500 3 EXITS: 501>OL<1,000 4 EXITS: OL>1,000 MORE THAN 4 EXITS PROVIDED THIS PROJECT

GROUP	MAX TRAVEL DISTANCE (TABLE 1017.2)	CORRIDOR WIDTH (TABLE 1020.2)	COMMON PATH (1006.2.1)
S-1	250'	44"	100'
U	400'	44"	75'

STRUCTURAL IMPROVEMENTS ON THE PROPERTY MAY COMPLY WITH THE "EXIT ACCESS TRAVEL DISTANCE" STANDARD OF 400 FEET FOR GROUP S-1 AS SET FORTH IN SECTION 1017.2.2 OF THE 2018 INTERNATIONAL BUILDING CODE (PROVIDED THAT THE RELEVANT STRUCTURAL IMPROVEMENT IS USED FOR A GROUP F-1 OR S-1 USE AND ALL APPLICABLE CONDITIONS SET FORTH IN SUCH SECTION 1017.2.2 ARE MET) IN LIEU OF COMPLIANCE WITH THE "EXIT ACCESS TRAVEL DISTANCE" REQUIRED BY TABLE 1017.2 OF THE INTERNATIONAL BUILDING CODE.

PER SECTION 1017.2.2 THE MAXIMUM EXIT ACCESS TRAVEL DISTANCE SHALL BE 400 FEET IN GROUP F-1 OR S-1 OCCUPANCIES WHERE ALL OF THE FOLLOWING CONDITIONS ARE MET:

1. THE PORTION OF THE BUILDING CLASSIFIED AS GROUP F-1 OR S-1 IS LIMITED TO ONE STORY IN HEIGHT.
2. THE MINIMUM HEIGHT FROM THE FINISHED FLOOR TO THE BOTTOM OF THE CEILING OR ROOF SLAB OR DECK IS 24 FEET.
3. THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.1.1.

EXIT WIDTH AT STAIRS SECTION 1005.3.1	0.2 X OCCUPANT LOAD (1005.3.1), NOT LESS THAN 44" CLEAR WHERE >49 OCCUPANTS, NOT LESS THAN 36" CLEAR WHERE <50 OCCUPANTS (1009.4)
EXIT WIDTH AT DOORS (& ALL OTHER EGRESS COMPONENTS)	0.15 X OCCUPANT LOAD (SECTION 1005.3.2), NOT LESS THAN 32" CLEAR (1008.1.1)

LEVEL	OCCUPANT LOAD	NUMBER OF EXITS / WIDTH REQUIRED	NUMBER OF EXITS / WIDTH PROVIDED	NUMBER OF STAIRS / WIDTH REQUIRED	NUMBER OF STAIRS / WIDTH PROVIDED
BUILDING 1	258	291 x 0.15" = 39" 2 EXITS (@32" CLEAR MIN. EA.)	18 4 @ 46" 14 @ 34"	N/A	N/A
BUILDING 2	172	419 x 0.15" = 26" 1 EXIT (@32" CLEAR MIN. EA.)	21 6 @ 46" 15@ 34"	N/A	N/A

EXIT / ACCESS SEPARATION (1007.1.1, EXCEPTION 2)	1/3 THE MAXIMUM DIAGONAL OF THE BUILDING OR AREA

1009.7.2 EXTERIOR AREAS OFR ASSISTED RESCUE, SEPARATION:
EXCEPTION: THE FIRE-RESISTANCE RATING AND OPENING PROTECTIVES ARE NOT REQUIRED IN THE EXTERIOR WALL WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2.

1009.9 SIGNAGE. SIGNAGE INDICATING SPECIAL ACCESSIBILITY PRO-VISIONS SHALL BE PROVIDED AS SHOWN:
1.EACH DOOR PROVIDING ACCESS TO AN AREA OF REFUGE FROM AN ADJACENT FLOOR AREA SHALL BE IDENTIFIED BY A SIGN STATING:
AREA OF REFUGE.
2.EACH DOOR PROVIDING ACCESS TO AN EXTERIOR AREA FOR ASSISTED RESCUE SHALL BE IDENTIFIED BY A SIGN STATING: EXTERIOR AREA FOR ASSISTED RESCUE.
SIGNAGE SHALL COMPLY WITH THE ICC A117.1 REQUIREMENTS FOR VISUAL CHARACTERS AND INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. WHERE EXIT SIGN ILLUMINATION IS REQUIRED BY SECTION 1013.3, THE SIGNS SHALL BE ILLUMINATED. ADDITIONALLY, VISUAL CHARACTERS, RAISED CHARACTER AND BRAILLE SIGNAGE COM-PLYING WITH ICC A117.1 SHALL BE LOCATED AT EACH DOOR TO AN AREA OF REFUGE AND EXTERIOR AREA FOR ASSISTED RESCUE IN ACCOR-DANCE WITH SECTION 1013.4.

DEAD END CORRIDORS (1020.4, EXCEPTION 2)	50' OR LESS
CORRIDOR FIRE-RESISTANCE RATING (TABLE 1020.1)	Corridor walls in this building do not require fire-resistance rating with Automatic Sprinklers
DOOR SWING DIRECTION (SECTION 1007)	DOORS SWING IN DIRECTION OF TRAVEL WHEN SERVING AN OCCUPANT LOAD OF 50 OR MORE
DOOR LANDINGS (SECTION 1012)	• LANDINGS REQUIRED ON BOTH SIDES • LANDING DEPTH IN DIRECTION OF TRAVEL MINIMUM 44" • LANDING WIDTH SAME AS WIDTH OF DOOR OR STAIR (WHICHEVER IS GREATER) • LANDING REDUCTION AT ANY DOOR POSITION < HALF OF REQUIRED WIDTH.
PANIC HARDWARE (SECTION 1010.1.10)	PANIC HARDWARE IS REQUIRED IN THIS BUILDING AT DOORS SERVING AN OCCUPANT LOAD OF 50 OR MORE IN A GROUP A OR E OCCUPANCY AND ELECTRICAL ROOMS WITH EQUIPMENT RATED 1,200 AMPERES OR MORE AND OVER 6 FEET WIDE, AND THAT CONTAIN OVERCURRENT DEVICES, SWITCHING DEVICES OR CONTROL DEVICES WITH EXIT OR EXIT ACCESS DOORS.

DLR GROUP
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STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
10-31-2025
LICENSED ARCHITECT

KIVA: 23-1213
Q.S.: Q9-31
PRLM: 2401758
SCMJ: 2403611
LSPL: TBD
LSIS: TBD
REZONE:Z-67-88
CPGD # 2403898
QS # 9-31
PLAT # 240035

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WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
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29-26101-00

BUILDING USE ANALYSIS

CP0.1

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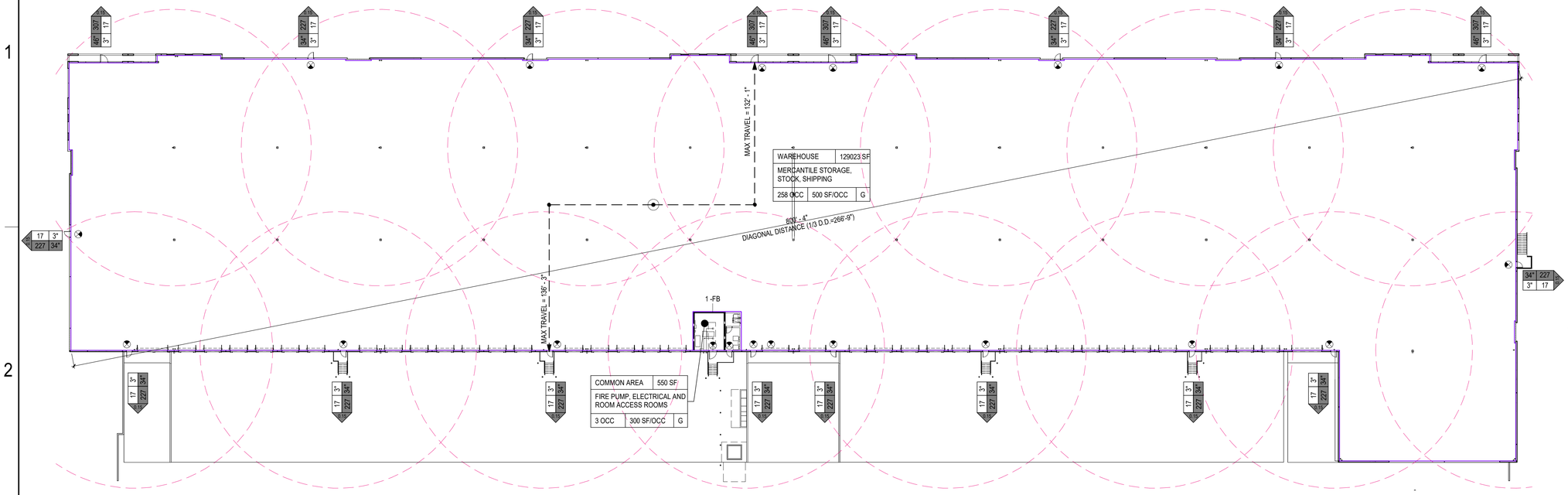
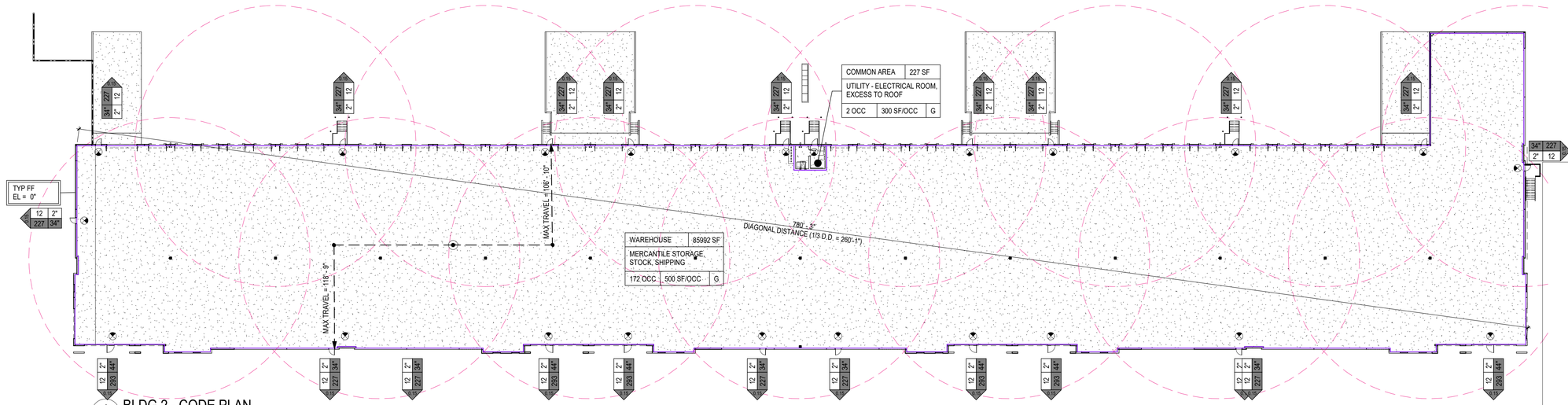


3 CP1.1 BLDG.1 - CODE PLAN
SCALE: 1" = 30'-0"



4 CP1.1 BLDG.2 - CODE PLAN
SCALE: 1" = 30'-0"

LEGEND - CODE FLOOR PLANS

Area name	XXXX SF
Space Function	
XXX OCC	XXX SF/OCC | G

OCCUPANT LOAD TAG (GROSS)
- SEE PATTERN FOR APPLIED LOAD FACTOR

ROOM NUMBER
AREA (SF)
OCCUPANT LOAD

OCCUPANT LOAD TAG (NET)
- THIS LOAD DOES NOT EXTEND BEYOND THIS SPACE
- SEE PATTERN FOR APPLIED LOAD FACTOR

EXIT TAG
- CUMULATIVE OCCUPANT LOAD
- EGRESS CAPACITY

REQUIRED OCCUPANT LOAD
REQUIRED WIDTH FOR OCCUPANT LOAD (INCHES)
CAPACITY OF EGRESS COMPONENT (WIDTH IN INCHES)
CAPACITY OF EGRESS COMPONENT (OCCUPANTS)
LOAD FACTOR (INCHES/OCCUPANT)
- WHEN CAPACITY FACTOR TRIANGLE IS FILLED - THIS IS TOTAL OCCUPANT LOAD AT THIS EXIT FROM THIS STORY

DOOR TAG
- PANIC DEVICE
- DOOR FIRE RATING

EXIT SIGN

MAX TRAVEL = Length — EXIT ACCESS TRAVEL DISTANCE
MAX CP = Length — COMMON PATH OF EGRESS TRAVEL DISTANCE
MAX DIAG DIM = X'-X" / 1/3 DIAG = X'-X" — MAX OVERALL DIAGONAL DIM OF AREA SERVED
MIN SEPARATION / DISTANCE = X'-X" — MIN EXIT SEPARATION

75' RADIUS — FIRE EXTINGUISHER AND 75' TRAVEL RADIUS

SEPARATION LEGEND

HOURLY RATING
0 = 0 HOUR
5 = 1/2 HOUR
1 = 1 HOUR
2 = 2 HOUR
3 = 3 HOUR
4 = 4 HOUR
SP = SMOKE PARTITION

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STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
01-31-2026
LICENSED ARCHITECT

KIVA: 23-1213
Q.S.: Q9-31
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4555 W 7800 S (BLDG.1) & 7888 Airport Road (BLDG.2), WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
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CODE PLAN

CP1.1

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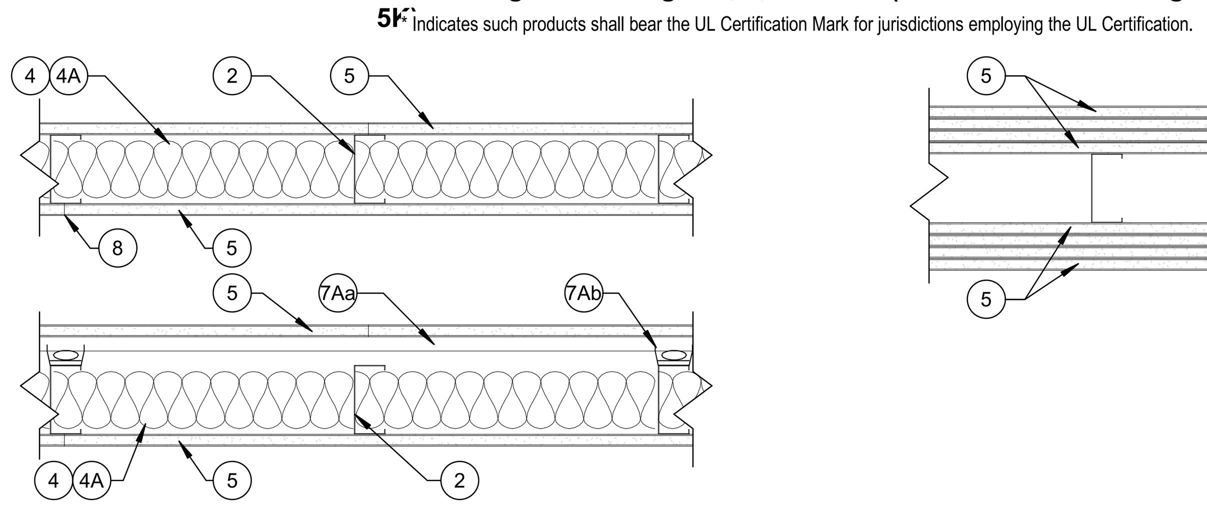
UL Design No. U419

Nonbearing Wall Ratings - 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5K)

* Indicates such products shall bear the UL Certification Mark for jurisdictions employing the UL Certification.



1. Floor and Ceiling Runners — (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

1B. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1C. Framing Members* — Floor and Ceiling Runners — (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.

1D. Floor and Ceiling Runners — (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.
1E. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.

1F. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1G. Framing Members* — Floor and Ceiling Runner — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.

1H. Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1I. Framing Members* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.

1J. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

1K. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1L. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1M. Framing Members* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item 2O, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1N. Framing Members* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1O. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2Q, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.

2. Steel Studs — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. Steel Studs — (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J and 5K) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2B. Framing Members* - Steel Studs — (As an alternate to Item 2, For use with Items 5C, 5I or 5K) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

2C. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

2D. Framing Members* — Steel Studs — In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

2E. Framing Members* — Steel Studs — (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or 5K only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

2F. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.

2G. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height.

2H. Framing Members* — Steel Studs — (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

2I. Framing Members* — Steel Studs — (As an alternate to Item 2, For use with Items 5C or 5L or 5K) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

2J. Framing Members* — Metal Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights

2K. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2L. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2N. Framing Members*— Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3-1/2 in. and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in length than assembly height. 5 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2O. Framing Members* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.

2P. Framing Members* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.

2Q. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1O, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

3. Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

4. Batts and Blankets* — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5.

4A. Batts and Blankets* — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

4B. Batts and Blankets* — For use with Item 5K. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

4C. Fiber, Sprayed* — (Optional) and as an alternate to Batts and Blankets (Item 4B) where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ).

5. Gypsum Board* — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2, 2C, 2D, 2F, 2G, 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

When Item 7B, Steel Framing Members*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.

5B. Gypsum Board* — (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).

5C. Gypsum Board* — (For Use With Item 2B) — Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.

5D. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.

5E. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified. For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

5F. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.

5G. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2 through 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4B)
1	3-5/8	1 layer, 5/8 in. thick	3-1/2 in.
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional

6. Fasteners — (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer.Three-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

7. Furring Channels — (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A.

7A. Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.
b. Steel Framing Members* — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.

7B. Framing Members* — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item
b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.
b. Steel Framing Members* — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

7C. Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.
b. Steel Framing Members* — Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

7D. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item
b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.
b. Steel Framing Members* — Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.

7E. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Eb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.
b. Steel Framing Members* — Used to attach furring channels (Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

7F. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Resilient channels and Steel Framing Members as described below:
a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 5. Not for use with Item 5A and 5E.
b. Steel Framing Members* — Used to attach resilient channels (Item 7Fa) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.

8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

9. Siding, Brick or Stucco — (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

10. Caulking and Sealants* — (Optional, Not Shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.

11. Lead Batten Strips — (Not Shown, For Use With Item 5B) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. Required behind vertical joints.

11A. Lead Batten Strips — (Not Shown, For Use With Item 5H) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.

12. Lead Discs or Tabs — (Not Shown, For Use With Item 5B) — Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

12A. Lead Discs — (Not Shown, for use with Item 5H) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

13. Lead Batten Strips — (Not Shown, For Use With Item 5E) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. Lead Tabs — (Not Shown, For Use With Item 5E) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

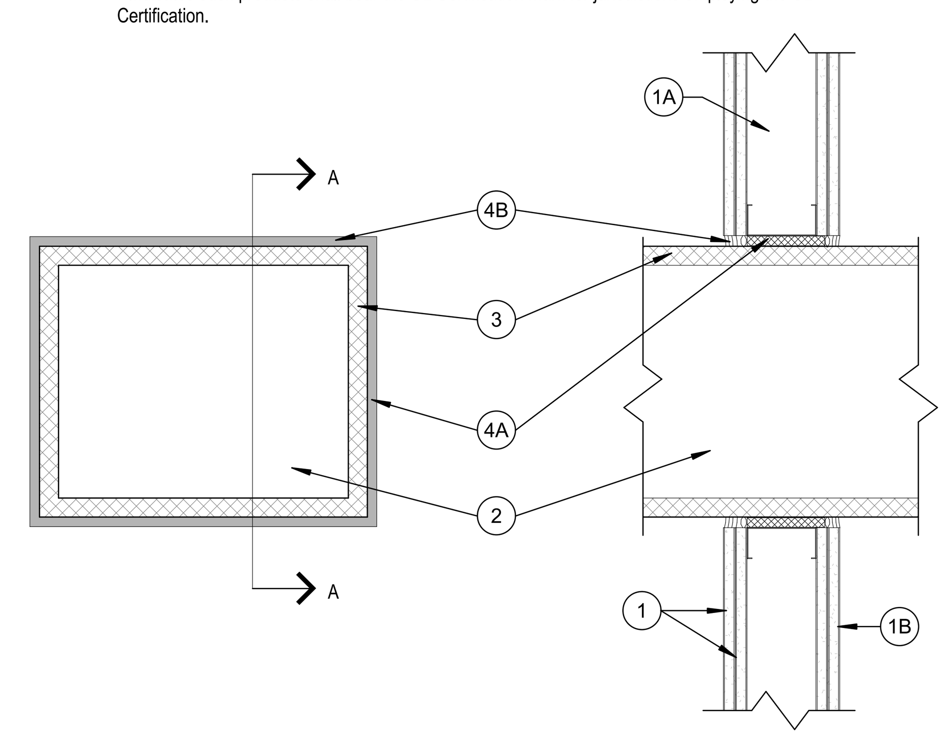
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2018-09-28

UL Design No. W-L-7051

XHEZ - Through-penetration Firestop Systems
F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 3/4 and 2 Hr (See Item 1)

* Indicates such products shall bear the UL Certification Mark for jurisdictions employing the UL Certification.



1. Wall Assembly — The 1 and 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features.
A. Studs — Wall framing shall consist of min 3-1/2 in. (89 mm) wide steel studs spaced a max 24 in. (610 mm) OC. Additional min 3-1/2 in. (89 mm) wide steel studs shall be used to completely frame the opening.
B. Gypsum Board* — Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. Max size of opening is 35 in. (889mm) by 29 in. (737 mm) opening.
The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. The hourly T Rating is 3/4 and 2 Hr for 1 and 2 Hr rated assemblies, respectively.

2. Steel Air Duct — Nom 30 in. by 24 in. (762 mm by 610 mm) (or smaller) min 24 gauge (or heavier) galv steel air duct to be installed either concentrically or eccentrically within the opening. Duct to be rigidly supported on both sides of wall assembly.
3. Duct Insulation* — Nom 1-1/2 in (38 mm) thick glass fiber blanket insulation jacketed on the outside with foil-scrim-kraft facing. Longitudinal and transverse joints sealed with foil-scrim kraft tape. A nominal 1 in. (25 mm) annular space shall be maintained between the insulated duct and the periphery of the opening.
See Batts and Blankets (BKNV) category in the Building Materials Directory for names of manufacturers. Any batts and blankets material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4. Firestop System — The firestop system shall consist of the following:
A. Wrap Strip — One layer of nom 1/8 in. (3.2 mm) thick intumescent material supplied in 2 in. (51 mm) wide strips tightly wrapped around duct insulation and held in place with 2 in. (51 mm) wide min 3 mil foil tape. Wrap strip slid into annulus on both sides of wall such that wrap strips extend approx 1/2 in. (13 mm) beyond both surfaces of wall. Exposed portion of wrap strip to be completely covered with min 3 mil foil tape.
3M COMPANY — Ultra GS

B. Fill, Void or Cavity Material* - Caulk or Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly.
3M COMPANY — CP 25WB+, IC 15WB+ caulk or FB-3000 WT sealant

Last Updated on 2006-10-02

S_-_-2_ NON-RATED STUD PARTITION

MARK			ROUGH THICKNESS	FIRE/SMOKE RATING	FIRE/SMOKE TESTED ASSEMBLIES	SOUND STC RATING	SOUND TESTED ASSEMBLIES	T.O. WALL DETAIL	B.O. WALL DETAIL	COMMENTS
SA	8	20	9 1/4"	NR	NA					

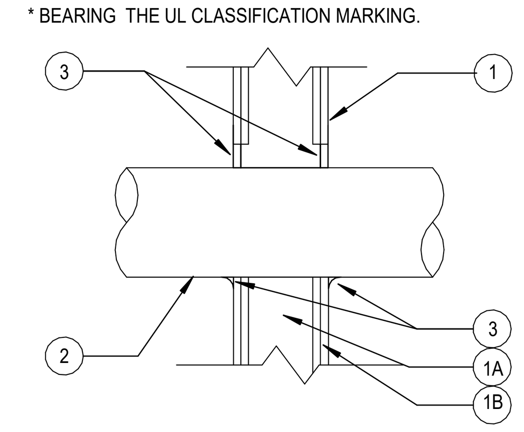
S1-_-2_ 1-HOUR RATED STUD PARTITION

MARK			ROUGH THICKNESS	FIRE/SMOKE RATING	FIRE/SMOKE TESTED ASSEMBLIES	SOUND STC RATING	SOUND TESTED ASSEMBLIES	T.O. WALL DETAIL	B.O. WALL DETAIL	COMMENTS
S1	3	20	4 7/8"	1	UL ###					
S1	8	20	9 1/4"	1	UL ###					

UL Design No. W-L-7019

1. <u>WALL ASSEMBLY</u> - THE 1 OR 2 HOUR FIRE RATED GYPSUM WALLBOARD / STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. <u>STUDS</u> - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM. 2" X 4" LUMBER SPACED 16" O.C. WITH NOM. 2" X 4" LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN. 3 5/8" WIDE AND SPACED MAX. 24" O.C.
   B. <u>WALLBOARD, GYPSUM*</u> - 5/8" THICK, 4' WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPES, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX. DIA. OF OPENING IS 7".
   THE HOURLY RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF TH EWALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. <u>THROUGH PENETRANT</u> - ONE NOM. 6" DIA. (OR SMALLER) NO. 28 MSG (OR HEAVIER) STEEL VENT PIPE TO BY INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN THE PIPE AND THE PERIPHERY OF THE OPENING SHALL BE MIN. 0" (POINT CONTACT) TO MAX. 1". PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL SURFACES.
3. <u>FILL, VOID OR CAVITY MATERIAL*</u> - SEALANT - MIN. 5/8" THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT BETWEEN PENETRANT AND GYPSUM WALLBOARD, A MIN. 3/8" DIA. BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE GYPSUM WALLBOARD/THROUGH PENETRANT INTERFACE ON BOTH SURFACES OF WALL. SPECIFIED TECHNOLOGIES INC. - SPECSEAL 100, 101,102 OR 105 SEALANT.

* BEARING THE UL CLASSIFICATION MARKING.



UL System No. W-L-7019
F RATING - 1 AND 2 HOURS
T RATING - 0 HOURS
AS TESTED FOR SPECIFIED TECHNOLOGIES INC.
UL W-L-7008 3M SIMILAR

PARTITION TYPES DESCRIPTIONS

<u>MATERIAL DESCRIPTION</u>
S = STEEL (METAL STUDS)
W = WOOD STUDS
H = SHAFT WALLS
M = MASONRY
C = CONCRETE

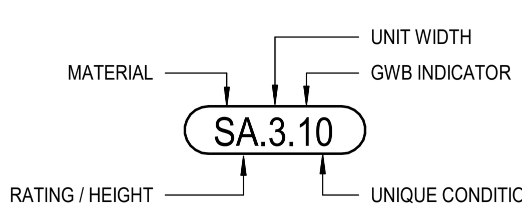
<u>RATING / HEIGHT</u>
A = FULL HEIGHT / UNDERSIDE OF STRUCT (NOT RATED)
B = 6" ABOVE CEILING (NOT RATED)
C = UNDERSIDE OF CEILING (NOT RATED)
D = PARTIAL HEIGHT (NOT RATED)
X = VARIABLE HEIGHT (NOT RATED)
S = SMOKE PARTITON (NOT RATED)
0 = 0 HOUR RATED (CORRIDOR)
5 = 0.5 HOUR RATED
1 = 1 HOUR RATED
2 = 2 HOUR RATED
3 = 3 HOUR RATED
4 = 4 HOUR RATED

<u>UNIT WIDTH / CONFIGURATION</u>
F = FURRING STRIPS / CHANNELS
1 = 1 5/8" METAL
2 = 2 1/2" METAL / 1 1/2" WOOD
3 = 3 5/8" METAL
4 = 4" METAL / 3 1/2 WOOD / 3 5/8" CMU
6 = 6" METAL / 5 1/2" WOOD / 5 5/8" CMU / 6" CONC
8 = 8" METAL / 7 1/4" WOOD / 7 5/8" CMU / 8" CONC
10 = 10" CONC
12 = 11 5/8" CMU / 12" CONC
X = NON-STANDARD WIDTH, SEE DETAILS
D = DOUBLE STUD FRAMING
S = STAGGERED STUD FRAMING

<u>GYPSUM WALLBOARD INDICATOR</u>
(NOT INCLUDING SHAFT LINER)
0 = NO GWB
1 = ONE LAYER, TAG SIDE
2 = ONE LAYER, EACH SIDE
3 = TWO LAYERS TAG SIDE, ONE LAYER OTHER
4 = TWO LAYERS, EACH SIDE
5 = TWO LAYERS TAG SIDE, NO GWB OTHER
6 = THREE LAYERS, EACH SIDE

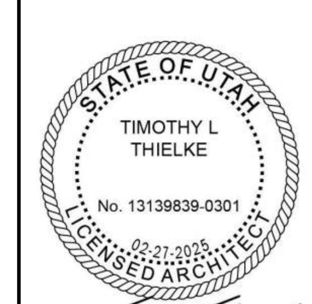
<u>UNIQUE CONDITION (SEE SCHEDULE)</u>

0 = NO UNIQUE CONDITION
1 = SOUND ATTENTUATION



WALL TYPE TAG

DLRGROUP
© DLR Group



KIVA: 23-1213
Q.S.: Q9-31
PRLM: 2401758
SCMJ: 2403611
LSPL: TBD
LSIS: TBD
REZONE:Z-67-88
CPGD # 2403898
QS # 9-31
PLAT # 240035

Notice of Extended Payment Provision
This contract allows the owner to make payment within 16 days after certification and approval of billings and estimates for progress payments, within 16 days after certification and approval of billings and estimates for release of retention and within 16 days after certification and approval of billings and estimates for final payment.

7800 LOGISTICS W. JORDAN
GO INDUSTRIAL
4555 W 7800 S (BLDG.1) & 7888 Airport Road (BLDG.2), WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

29-26101-00

PARTITION TYPES AND UL DETAILS

CP2.1

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COMcheck Software Version COMcheckWeb
Envelope Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	7800 Logistic W. Jordan - Bldg.1
Location:	West Jordan, Utah
Climate Zone:	5b
Project Type:	New Construction
Vertical Glazing / Wall Area:	4%

Construction Site:
4555 W. 788 S.
West Jordan, Utah 84088

Owner/Agent:

Designer/Contractor:

Additional Efficiency Package(s)
Credits: 1.0 Required 1.0 Proposed
Dedicated Outdoor Air System, 1.0 credit

Building Area	Floor Area
1-Warehouse/Manufacturing (Warehouse) : Nonresidential	131106

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Roof: Insulation Entirely Above Deck, [Bldg. Use 1 - Warehouse/Manufacturing]	131106	---	30.0	0.032	0.032
Floor: Unheated Slab-On-Grade, [Bldg. Use 1 - Warehouse/Manufacturing] (c)	2044	---	---	0.730	0.540
NORTH					
Ext. Wall: Solid Concrete, 9in. Thickness, Normal Density, Furring: None, [Bldg. Use 1 - Warehouse/Manufacturing]	35280	---	13.0	0.067	0.090
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Solarcool Pacifica, SHGC 0.25, VT 0.15, [Bldg. Use 1 - Warehouse/Manufacturing] (b)	750	---	---	0.470	0.380
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Solarcool Pacifica, SHGC 0.25, VT 0.15, [Bldg. Use 1 - Warehouse/Manufacturing] (b)	1536	---	---	0.470	0.380
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Warehouse/Manufacturing]	92	---	---	0.152	0.370
EAST					
Ext. Wall: Solid Concrete, 9in. Thickness, Normal Density, Furring: None, [Bldg. Use 1 - Warehouse/Manufacturing]	9810	---	13.0	0.067	0.090
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Solar Pacifiica, SHGC 0.25, VT 0.15, [Bldg. Use 1 - Warehouse/Manufacturing] (b)	192	---	---	0.470	0.380
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Solarcool Pacifica, SHGC 0.25, VT 0.15, [Bldg. Use 1 - Warehouse/Manufacturing] (b)	181	---	---	0.470	0.380
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Warehouse/Manufacturing]	23	---	---	0.152	0.370
SOUTH					
Ext. Wall: Solid Concrete, 9in. Thickness, Normal Density, Furring: None, [Bldg. Use 1 - Warehouse/Manufacturing]	35280	---	13.0	0.067	0.090
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Solarcool Pacifica, SHGC 0.25, VT 0.15, [Bldg. Use 1 - Warehouse/Manufacturing] (b)	462	---	---	0.470	0.380
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Warehouse/Manufacturing]	230	---	---	0.152	0.370
Door: Insulated Metal, Non-Swinging, [Bldg. Use 1 - Warehouse/Manufacturing]	4172	---	---	0.152	0.179
WEST					
Ext. Wall: Solid Concrete, 9in. Thickness, Normal Density, Furring: None, [Bldg. Use 1 - Warehouse/Manufacturing]	7110	---	13.0	0.067	0.090
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Solarcool Pacifica, SHGC 0.25, VT 0.15, [Bldg. Use 1 - Warehouse/Manufacturing] (b)	139	---	---	0.470	0.380
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Solarcool Pacifica, SHGC 0.25, VT 0.15, [Bldg. Use 1 - Warehouse/Manufacturing] (b)	192	---	---	0.470	0.380
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Warehouse/Manufacturing]	23	---	---	0.152	0.370

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 9% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2018 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Tim Thielke, AIA, NCARB, Principal — Name - Title
Signature
1/23/26 — Date

COMcheck Software Version COMcheckWeb
Envelope Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	7800 Logistic W. Jordan - Bldg.2
Location:	West Jordan, Utah
Climate Zone:	5b
Project Type:	New Construction
Vertical Glazing / Wall Area:	5%

Construction Site:
7888 Airport Road
West Jordan, Utah 84088

Owner/Agent:

Designer/Contractor:

Additional Efficiency Package(s)
Credits: 1.0 Required 1.0 Proposed
Dedicated Outdoor Air System, 1.0 credit

Building Area	Floor Area
1-Warehouse/Manufacturing (Warehouse) : Nonresidential	86256

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Roof: Insulation Entirely Above Deck, [Bldg. Use 1 - Warehouse/Manufacturing]	86256	---	30.0	0.032	0.032
Floor: Unheated Slab-On-Grade, [Bldg. Use 1 - Warehouse/Manufacturing] (c)	1922	---	---	0.730	0.540
NORTH					
Ext. Wall: Solid Concrete, 9in. Thickness, Normal Density, Furring: None, [Bldg. Use 1 - Warehouse/Manufacturing]	34740	---	13.0	0.067	0.090
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Solarcool Pacifica, SHGC 0.25, VT 0.15, [Bldg. Use 1 - Warehouse/Manufacturing] (b)	441	---	---	0.470	0.380
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Warehouse/Manufacturing]	230	---	---	0.152	0.370
Door: Insulated Metal, Non-Swinging, [Bldg. Use 1 - Warehouse/Manufacturing]	4054	---	---	0.152	0.179
EAST					
Ext. Wall: Solid Concrete, 9in. Thickness, Normal Density, Furring: None, [Bldg. Use 1 - Warehouse/Manufacturing]	7560	---	13.0	0.067	0.090
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Solar Pacifiica, SHGC 0.25, VT 0.15, [Bldg. Use 1 - Warehouse/Manufacturing] (b)	192	---	---	0.470	0.380
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Solarcool Pacifica, SHGC 0.25, VT 0.15, [Bldg. Use 1 - Warehouse/Manufacturing] (b)	122	---	---	0.470	0.380
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Warehouse/Manufacturing]	23	---	---	0.152	0.370
SOUTH					
Ext. Wall: Solid Concrete, 9in. Thickness, Normal Density, Furring: None, [Bldg. Use 1 - Warehouse/Manufacturing]	34740	---	13.0	0.067	0.090
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Solarcool Pacifica, SHGC 0.25, VT 0.15, [Bldg. Use 1 - Warehouse/Manufacturing] (b)	535	---	---	0.470	0.380
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Solarcool Pacifica, SHGC 0.25, VT 0.15, [Bldg. Use 1 - Warehouse/Manufacturing] (b)	2208	---	---	0.470	0.380
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Warehouse/Manufacturing]	92	---	---	0.152	0.370
WEST					
Ext. Wall: Solid Concrete, 9in. Thickness, Normal Density, Furring: None, [Bldg. Use 1 - Warehouse/Manufacturing]	4860	---	13.0	0.067	0.090
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Solarcool Pacifica, SHGC 0.25, VT 0.15, [Bldg. Use 1 - Warehouse/Manufacturing] (b)	80	---	---	0.470	0.380
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Solarcool Pacifica, SHGC 0.25, VT 0.15, [Bldg. Use 1 - Warehouse/Manufacturing] (b)	192	---	---	0.470	0.380
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Warehouse/Manufacturing]	23	---	---	0.152	0.370

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 9% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2018 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Tim Thielke, AIA, NCARB, Principal — Name - Title
Signature
1/23/26 — Date

DLR GROUP
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STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
01-31-2026
LICENSED ARCHITECT

KIVA: 23-1213
Q.S.: Q9-31
PRLM: 2401758
SCMJ: 2403611
LSPL: TBD
LSIS: TBD
REZONE:Z-67-88
CPGD # 2403898
QS # 9-31
PLAT # 240035

Notice of Extended Payment Provision
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7800 LOGISTICS W. JORDAN
GO INDUSTRIAL
4555 W. 7800 S (BLDG 1) & 7888 Airport Road (BLDG 2),
WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

29-26101-00

ENERGY COMPLIANCE

EN0.1

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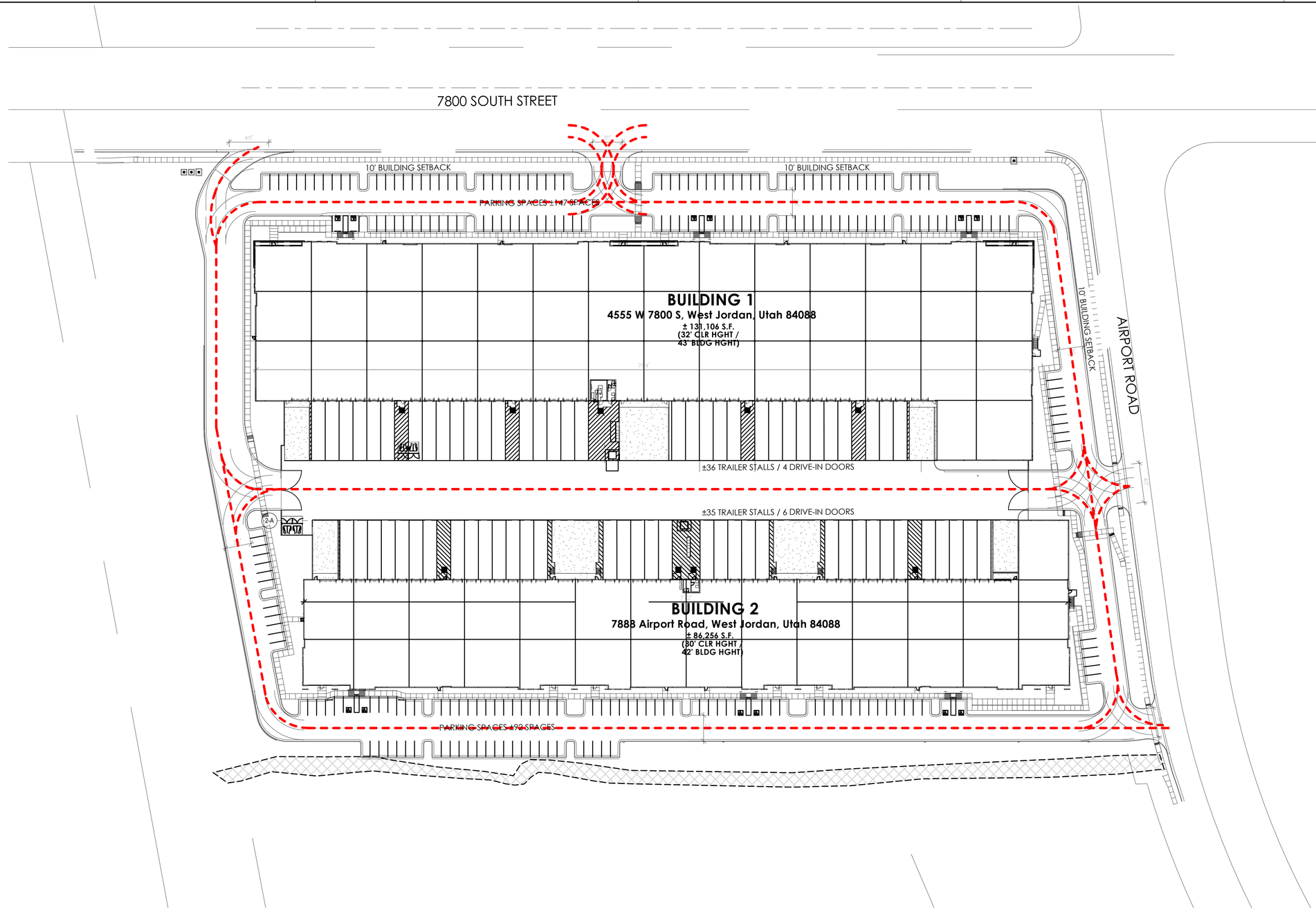

KEY LEGEND

- FIRE LANE
- G — MANUALLY OPERATED SLIDING GATE WITH KNOX BOX
- FIRE HYDRANT
- REMOTE FDC

1. S.E.S. (TYP)
2. FIRE PUMP/RISER LOCATION - SEE DET. 5/AS0.1FA
3. FDC LOCATION - PROVIDE F.D.C. SIGN
4. KNOX BOX - 3200 SERIES - MOUNTED ON CONCRETE TILT PANEL OR CMU @ 5'-6" A.F.F.
5. FIRE LANE RED PAINTED RED CURB WITH "NO PAKING FIRE LANE" STENCIL - TYP. @ DASHED LINE
6. FIRE LANE NO PARKING SIGNAGE MOUNTED ON APPROVED POST - SEE DET. 2 & 3/ AS0.1FA. SEE DET.6/AS0.1FA FOR SPACING & VISIBILITY REQUIREMENTS.
7. 24" HEIGHT WALL WITH 4" BRUSH STROKE ADDRESS NUMERALS TO BE INTERNALLY OR EXTERNALLY LIT - REFER TO ELEVATIONS FOR EXACT LOCATION.

N

MASTER FIRE ACCESS PLAN.

SCALE: 1" = 50'-0"

0 25 50 100

SCALE: 1" = 50'

DLRGROUP
© DLR Group

STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
02-27-2026
LICENSED ARCHITECT

KIVA: 23-1213
Q.S.: Q9-31
PRLM: 2401758
SCMJ: 2403611
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7800 LOGISTICS W. JORDAN
GO INDUSTRIAL
4555 W 7800 S (BLDG 1) & 7888 Airport Road (BLDG 2),
WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

29-26101-00

MASTER FIRE ACCESS PLAN

AS0.1F

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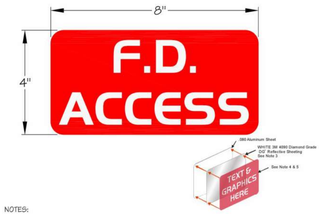


NOTES:

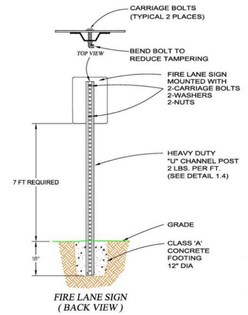
1. THE SIGN FACE SHALL BE 8" X 4" AND FABRICATED FROM .080 ALUMINUM SHEET WITH 1/2" RADIUS CORNERS.
2. LETTERS 1 1/4" X 1/4" STROKE, FONT STYLE USED IS HANDEL GOTHIC BT CAPITAL FONTS.
3. THE SIGN FACE SHALL HAVE A WHITE 3M DIAMOND GRADE REFLECTIVE SHEETING (DG³ 4090 SERIES OR EQUIVALENT) APPLIED AS A BACKGROUND TO THE ALUMINUM PLATES.
4. LETTERING / GRAPHICS SHALL BE DONE ONE OF THE FOLLOWING WAYS:
   4.1. 3M SCOTCHLITE ACRYLIC, TRANSPARENT, ELECTRONIC CUTTABLE FILM (RED 1172 SERIES) INVERSE CUT TO ALLOW WHITE REFLECTIVE BACKGROUND TO SHOW THROUGH.
   4.2. SCREEN PRINTED USING 3M 880I OR 880-00 SERIES TRAFFIC SIGN RED TRANSLUCENT INK.
   4.3. BOTH PROCESSES WILL ACCOMPLISH A RED FIELD WITH WHITE COPY.
5. ALL SIGN IMAGING SHALL BE IN COMPLIANCE WITH THE REFLECTIVE SHEETING MANUFACTURES MATCH COMPONENT SYSTEM.
6. REQUIRES PRE-APPROVAL BY FIRE PREVENTION EMERGENCY ACCESS OFFICER.

1 AS0.1FA — F.D.ACCESS SIGN DETAIL
SCALE: 6" = 1'-0"

STANDARD FIRE LANE SIGN DETAIL — *UNIVERSAL SYMBOL FIRE LANE SIGN DETAIL*

1. THE SIGN PLATE SHALL BE A MINIMUM OF 12" X 18" WITH A THICKNESS OF .080 ALUMINUM CONSTRUCTION.
2. THE SIGN FACE SHALL HAVE A WHITE REFLECTIVE BACKGROUND WITH A RED LEGEND. USE THE STANDARD 3M SCHOTCHLITE SIGN FACE NUMBER R7-32 OR EQUIVALENT, WITH RED SCREEN PRINTED LETTERING AS SHOWN ABOVE

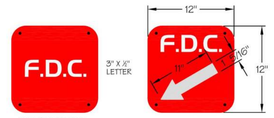
2 AS0.1FA — FIRE LANE SIGN DETAIL
SCALE: 1 1/2" = 1'-0"



FIRE LANE SIGN (BACK VIEW)

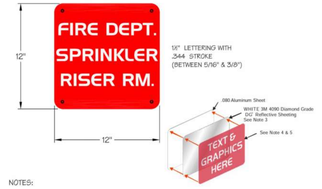
1. 10' LONG U-CHANNEL GALVANIZED OR PAINTED POST.
2. FIRE SIGN PER DETAIL 2/AS1.04A.
3. 1/4" BOLTS & NUTS LARGE FLAT OR FENDER WASHERS.
4. SIGN MUST FACE THE ONCOMING TRAFFIC.
5. POST SHALL BE INSTALLED 12" TO 18" FROM BACK OF CURB OR SIDEWALK.
6. FIRE DEPT. RECOMMENDS YOU BLUE STAKE BEFORE YOU DIG

3 AS0.1FA — FIRE LANE SIGN POST DETAIL
SCALE: 1 1/2" = 1'-0"



1. THE SIGN FACE SHALL BE 12" X 12" AND FABRICATED FROM .080 ALUMINUM SHEET WITH 1 1/2" RADIUS CORNERS.
2. FONT STYLE USED IS HANDEL GOTHIC BT CAPITAL FONTS ADDITIONAL KERNING BETWEEN LETTERS AS SHOWN.
3. THE SIGN FACE SHALL HAVE A WHITE 3M DIAMOND GRADE REFLECTIVE SHEETING (DG³ 4090 SERIES OR EQUIVALENT) APPLIED AS A BACKGROUND TO THE ALUMINUM PLATES.
4. LETTERING / GRAPHICS SHALL BE DONE ONE OF THE FOLLOWING WAYS:
   4.1. 3M SCOTCHLITE ACRYLIC, TRANSPARENT, ELECTRONIC CUTTABLE FILM (RED 1172 SERIES) INVERSE CUT TO ALLOW WHITE REFLECTIVE BACKGROUND TO SHOW THROUGH.
   4.2. SCREEN PRINTED USING 3M 880I OR 880-00 SERIES TRAFFIC SIGN RED TRANSLUCENT INK.
   4.3. BOTH PROCESSES WILL ACCOMPLISH A RED FIELD WITH WHITE COPY.
5. ALL SIGN IMAGING SHALL BE IN COMPLIANCE WITH THE REFLECTIVE SHEETING MANUFACTURES MATCH COMPONENT SYSTEM.
6. TO BE INSTALLED ON THE WALL 7 FEET ABOVE GRADE OVER F.D.C . VALVE.
7. REQUIRES PRE-APPROVAL BY A FIRE CODE OFFICIAL. 602-262-6771.

4 AS0.1FA — FDC SIGN DETAIL
SCALE: 1 1/2" = 1'-0"



NOTES:

1. THE SIGN FACE SHALL BE 12" X 12" AND FABRICATED FROM .080 ALUMINUM SHEET WITH 1 1/2" RADIUS CORNERS.
2. FONT STYLE USED IS HANDEL GOTHIC BT CAPITAL FONTS ADDITIONAL KERNING BETWEEN LETTERS AS SHOWN.
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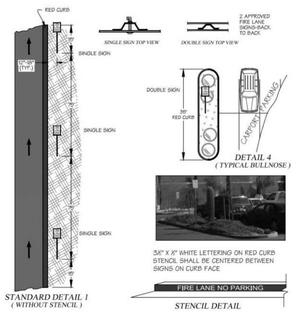
5. ALL SIGN IMAGING SHALL BE IN COMPLIANCE WITH THE REFLECTIVE SHEETING MANUFACTURES MATCH COMPONENT SYSTEM.
6. TO BE INSTALLED ON THE WALL 7 FEET ABOVE GRADE OVER F.D.C. VALVE.
7. REQUIRES PRE-APPROVAL BY A FIRE CODE OFFICIAL. 602-262-6771.

5 AS0.1FA — FIRE RISER SIGN DETAIL
SCALE: 1 1/2" = 1'-0"



1. APPROVED FIRE LANE SIGNS SHALL BE INSTALLED 12" TO 18" FROM BACK OF CURB OR BACK OF SIDEWALK.
2. SIGN MUST FACE THE ONCOMING TRAFFIC.
3. STENCILS SHALL BE IN WHITE LETTERING (3" HT. 1/2" STROKE) ON RED PAINTED CURB.
4. STENCIL SHALL READ "FIRE LANE NO PARKING".

6 AS0.1FA — FIRE LANE STRIPPING, STENCILING, SIGNAGE
SCALE: 1 1/2" = 1'-0"

7 AS0.1FA — NO TRUCKS ALLOWED
SCALE: 1 1/2" = 1'-0"

DLR GROUP
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REGISTERED ARCHITECT
CERTIFICATE NO.
67163
TIMOTHY THIELKE
Date Signed 02-27-2026
ARIZONA U.S.A.

KIVA: 23-1213
SDEV: 2400129
PAPP: 2304444
Q.S.: Q9-31
PRLM: 2401758
SCMJ: TBD
LSPL: TBD
LSIS: TBD
REZONE:Z-67-88
CPGD # 2403902
QS # 9-31

Notice of Extended Payment Provision
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7800 LOGISTICS W. JORDAN

GO INDUSTRIAL

4555 W. 7800 S (BLDG 1) & 7688 Airport Road (BLDG.2).
WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

29-26101-00

SITE DETAILS

AS0.1FA

Autodesk Docs://29-26101-00 GO Industrial+7800 Logistics N/29-26101-00 GO_7800 Logistics_West Jordan_AR_2024.rvt
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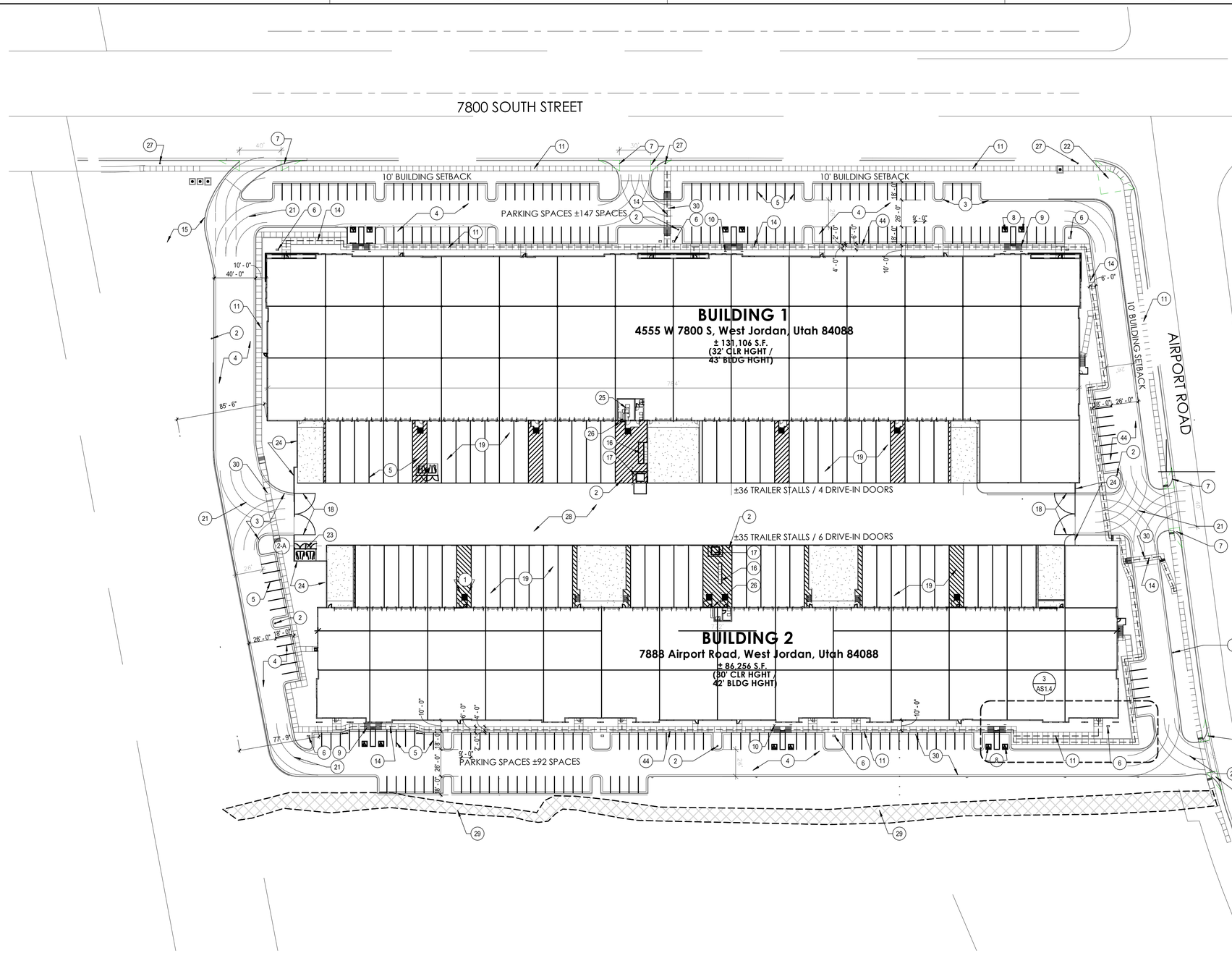


OVERALL SITE PLAN

SCALE: 1" = 50'-0"

0 25 50 100

SCALE: 1" = 50'

GENERAL NOTES

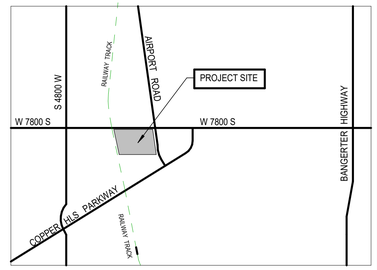
A. DEVELOPMENT AND USE OF THIS SITE WILL CONFORM WITH ALL APPLICABLE CODES AND ORDINACES.
B. ALL NEW OR RELOACTED UTILITIES WILL BE PLACED UNDERGROUND.
C. STRUCTURES AND LANDSCAPING WITHIN A TRIANGLE MEASURED BACK 10' FROM THE PROPERTY LINE AND 20' ALONG THE PROPERTY LINE ON EACH SIDE OF THE DRIVEWAYS' ENTRANCES WILL BE MAINTANIED AT A MAXIMUM HEIGHT OF 3'.
D. ANY LIGHTING WILL BE PLACED SO AS TO DIRECT LIGHT AWAY FROM ADJACENT RESIDENTIAL DISTRICTS AND WILL NOT EXCEEDE ONE FOOR CANDLE AT THE PROPERTY LINE. NO NOISE, ODOR, OR VIBRATION EMITTED BY USES IN THE AREA OUTSIDE OF THE SITE.
E. OWNERS OF PROPERTY ADJACENT TO PUBLIC RIGHTS-OF-WAY, IN ACCORDANCE WITH APPROVED PLANS.
F. ALL ROOFTOP EQUIPMENT AND SATELLITE DISHES SHALL BE SCREENED TO THE HEIGHT OF THE TALLEST EQUIPMENT.
G. ALL SERVICES AREAS SHALL BE SCREENED TO CONCEAL TRASH CONTAINERS, LOADING DOCKS, TRANSFORMERS, BACKFLOW PREVENTERS AND OTHER MECHANICAL OR ELECTRICAL EQUIPMENT FROM EYE LEVEL ADJACENT TO ALL PUBLIC STREETS.
H. BARBED, RAZOR, OR CONCERTINA WIRE (OR SIMILAR) SHALL NOT BE USED WHERE IT WILL BE VISIBLE FROM PUBLIC STREETS OR ADJACENT RESIDENTIAL AREAS.
I. ALL SIGNAGE REQUIRES SEPARATE REVIEWS, APPROVALS, AND PERMITS. NO SIGNS ARE APPROVED PER THIS PLAN.
J. PLEASE CONSIDER PLACING THE FOLLOWING NOTE (SIGNED AND DATED) ON THE SITE PLAN TO AUTHORIZE MINOR AMENDMENT TO THE PLAN IN THE FUTURE.

SITE KEY NOTES

NOTE: THE SITE KEYNOTES LISTED ARE TYPICAL TO THE PROJECT AND MAY NOT BE APPLICABLE AND/OR REFERENCED ON ALL SHEETS.

1 BOLLARD (TYP) SEE DETAIL 1D/AS1.2
2 FIRE HYDRANT (TYP)
3 6" CONCRETE CURB (AND GUTTER) TYP. - SEE CIVIL DRAWINGS
4 ASPHALTIC PAVING - SEE CIVIL AND SOILS REPORT.
5 PAINT STRIPING - SEE CIVIL DRAWINGS.
6 BICYCLE RACK - SEE DETAIL 2D/AS1.3.
7 10' x 20' VISIBILITY TRIANGLE - TYP.
8 ACCESSIBLE PARKING STALL WITH 5'-0" ACCESS AISLE TYP - SEE DETAIL 2E/AS1.2
9 ADA ACCESSIBLE RAMPS TYP. - SEE CIVIL DRAWINGS AND DETAILS 2A, 3A, 4A/AS1.2.
10 ACCESSIBLE SIGNAGE - SEE DETAILS - 3C/AS1.2
11 CONCRETE SIDEWALK
12 POLE MOUNTED LIGHT FIXTURE TYP. - SEE DETAIL 2C/AS1.3 AND ELECTRICAL
13 3'-0" TO 3'-4" HEIGHT C.M.U. PARKING SCREEN WALL - SEE DETAIL 4A/AS1.3.
14 ADA ACCESSIBLE PATH FROM PUBLIC WAY / BUS STOP TO BUILDING ENTRANCE.
15 LANDSCAPE/RETENTION AREA - SEE LANDSCAPE AND CIVIL.
16 ELECTRICAL S.E.S. LOCATION - SEE ELECTRICAL.
17 ELECTRICAL TRANSFORMER & CONCRETE PAD - SEE ELECTRICAL.
18 SWING GATE (20 FEET WIDE PER LEAF) - SEE DET.3A/AS1.3
19 CONCRETE PAVING - SLOPE AWAY FROM BUILDING - SEE CIVIL FOR GRADES.
20 FIRE SPRINKLER RISER LOCATION - SEE FIRE SPRINKLER DRAWINGS UNDER SEPARATE REVIEW AND PERMIT.
21 CITY OF WEST JORDAN FIRE TRUCK AND 50' LONG CARGO TRUCK ACCESS TURNING RADII - 30' INSIDE, 50' OUTSIDE
22 33' X 33' VISIBILITY TRIANGLE - TYP.
23 REFUSE CONTAINNER LOCATION
24 8' C.M.U.SCREEN WALL - SEE DET.2A/AS1.3
25 FIRE PUMP ROOM
26 FDC
27 EXISTING FIRE HYDRANT
28 PCCP
29 WASH
30 DECORATIVE CONC. PAVING
44 VEHICLE OVERHANG OF 2'-0"

PROJECT NAME:	GO WEST JORDAN
PROJECT ADDRESS:	4501 W 7800 S. WEST JORDAN, UT 84088
OWNER:	GO INDUSTRIAL 3200 E. CAMELBACK ROAD, SUITE 298 PHOENIX, AZ 85018 PHONE: 480-258-0414 CONTACT: PRESTON PRUETT
ARCHITECT:	DLR GROUP 6225 N 24TH STREET, SUITE 250 PHOENIX, AZ 85016 PHONE: 480-206-7727 CONTACT: TIM THIELKE EMAIL: TTHIELKE@DLRGROUP.COM
ASSESSOR'S PARCEL NUMBER:	21-31-126-012
EXISTING ZONING:	M-1 (LIGHT MANUFACTURE ZONE)
PROPOSED ZONING:	M-1 (LIGHT MANUFACTURE ZONE)
PROPOSED USE:	OFFICE/INDUSTRIAL/WAREHOUSE/DISTRIBUTION
ALLOWED BUILDING HEIGHT:	N/A
PROPOSED BUILDING HEIGHT:	44'
STORIES:	1-STORY
CONSTRUCTION TYPE:	2-B
MINIMUM LOT WIDTH:	NA
BUILDING SETBACKS :	
BUILDING STREET:	10' MIN
SIDE/REAR:	0' MIN
SIDE/REAR RESIDENTIAL	60' MIN
NET SITE AREA:	± 620,934 S.F. (± 14.255 ACRES)
PROPOSED BUILDING FOOTPRINT:	± 220,381 S.F. (BLDG.1 - 131,760 SF + BLDG.2 - 88,621SF)
PROPOSED BUILDING AREA :	± 217,362 S.F. (BLDG.1 - 131,106 SF + BLDG.2 - 86,256 SF)
LOT COVERAGE:	± 35.5% (220,381 SF / 620,934 SF = 0.355)
LANDSCAPE AREA :	± 143,293 S.F. (23%)
LANDSCAPE AREA WITHOUT WASH:	± 79,749 S.F. (23%)
PARKING AREA:	± 54,076 S.F.
LANDSCAPE IN PARKING AREA:	± 6,092 S.F. (11.3%)
PARKING REQUIRED:	(@ 1:400 S.F. OFFICE, @ 1:4,000 S.F. INDUSTRIAL)
OFFICE:	50 SPACES (20,000 S.F. @ 1:400 S.F.)
WAREHOUSE:	54 SPACES (215,015 S.F. @ 1:4,000 S.F.)
TOTAL PARKING REQUIRED:	104 SPACES
TOTAL PARKING PROVIDED:	246 SPACES
PARKING RATIO:	1.26 SPACES PER 1,000 S.F.
ADA PARKING REQUIRED:	8 SPACES
ADA PARKING PROVIDED:	12 SPACES
BICYCLE PARKING PROVIDED:	32 SPACES



VICINITY MAP

NORTH

SITE SYMBOLS

PROPERTY LINE
BUILDING SETBACK
EASMENT LINE
STREET CENTERLINE
CURB, EXISTING
CURB, NEW
FIRE HYDRANT
LIGHT POLE

DLRGROUP
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STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
02-27-2026
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ARCHITECTURAL SITE PLAN

AS1.1

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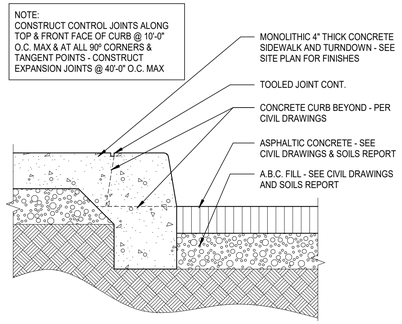
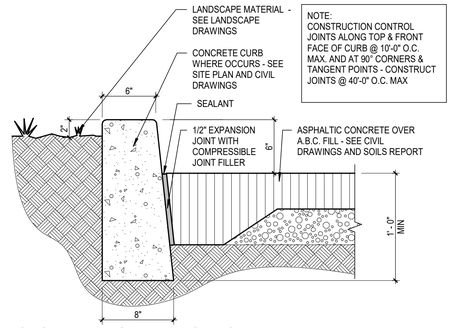
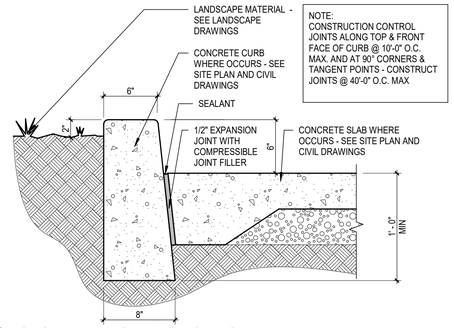


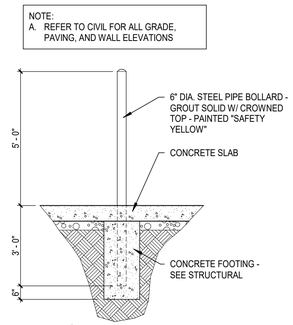
1A AS1.2 MONOLITHIC CURB & SIDEWALK
SCALE: 1 1/2" = 1'-0"



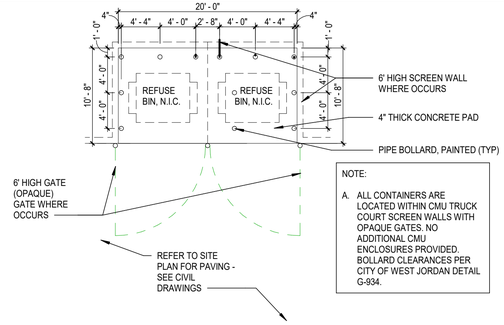
1B AS1.2 CAST-IN-PLACE VERTICAL CURB
SCALE: 1 1/2" = 1'-0"



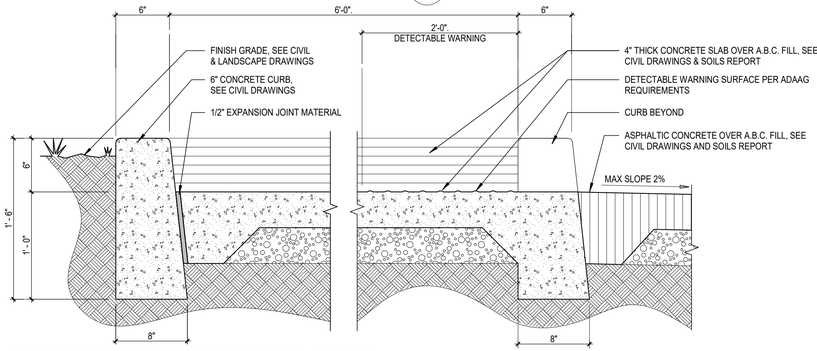
1C AS1.2 CAST-IN-PLACE VERTICAL CURB
SCALE: 1 1/2" = 1'-0"



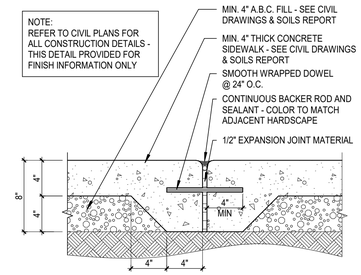
1D AS1.2 PIPE BOLLARD
SCALE: 3/8" = 1'-0"



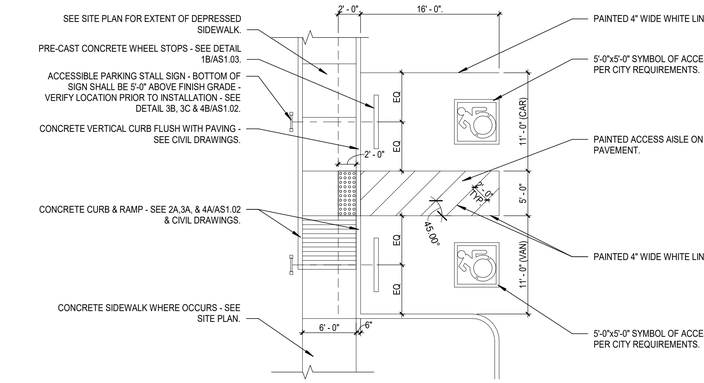
1E AS1.2 REFUSE CONTAINER PLAN
SCALE: 1/8" = 1'-0"



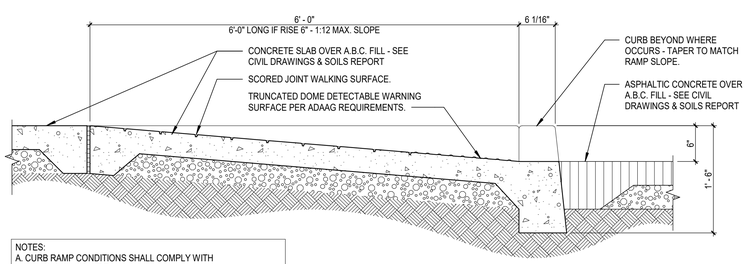
2A AS1.2 SIDEWALK (BASE/BOTTOM) AT RAMP LANDING
SCALE: 1 1/2" = 1'-0"



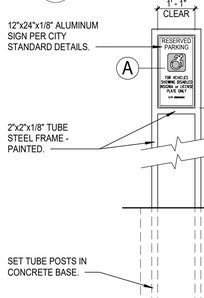
2C AS1.2 CONCRETE EXPANSION JOINT
SCALE: 1 1/2" = 1'-0"



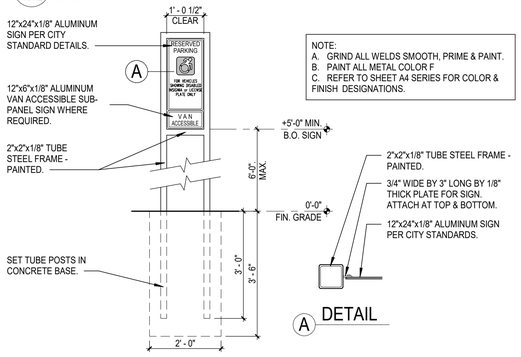
2E AS1.2 ACCESSIBLE PARKING
SCALE: 1/8" = 1'-0"



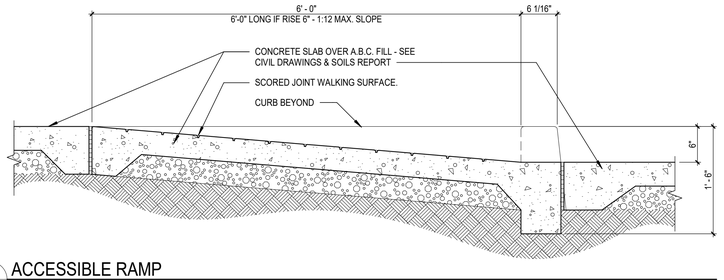
3A AS1.2 ACCESSIBLE RAMP
SCALE: 1" = 1'-0"



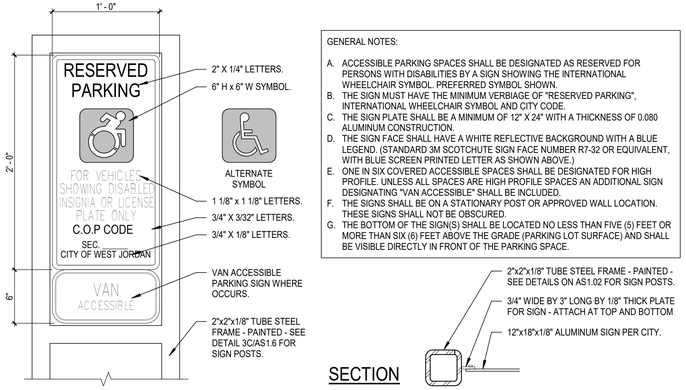
3C AS1.2 ACCESSIBLE SIGN
SCALE: 1/2" = 1'-0"



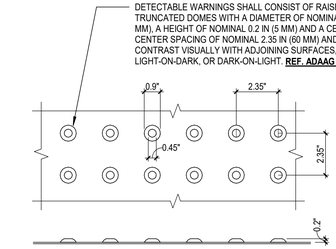
3E AS1.2 ACCESSIBLE PARKING SIGN (VAN)
SCALE: 1/2" = 1'-0"



4A AS1.2 ACCESSIBLE RAMP
SCALE: 1" = 1'-0"



4C AS1.2 ACCESSIBLE SIGNAGE
SCALE: 1 1/2" = 1'-0"



4D AS1.2 DETECTABLE WARNING SURFACE
SCALE: 3" = 1'-0"

DLR GROUP
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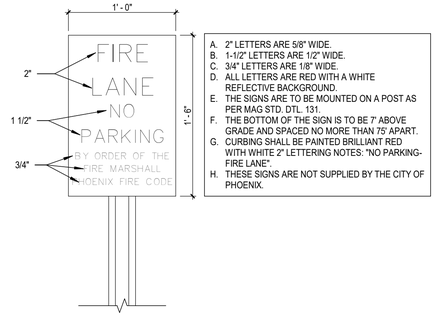
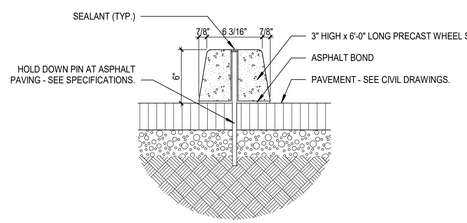


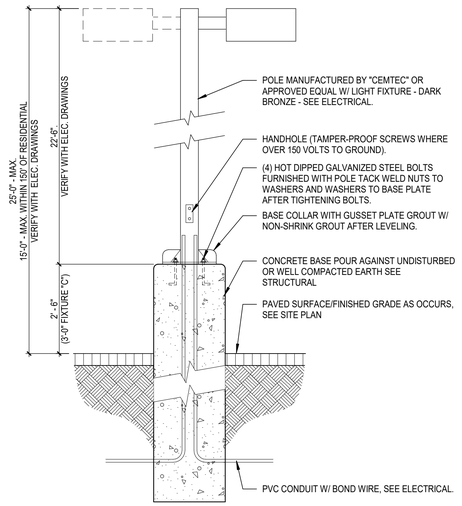
A. 2" LETTERS ARE 5/8" WIDE.
B. 1-1/2" LETTERS ARE 1/2" WIDE.
C. 3/4" LETTERS ARE 1/8" WIDE.
D. ALL LETTERS ARE RED WITH A WHITE REFLECTIVE BACKGROUND.
E. THE SIGNS ARE TO BE MOUNTED ON A POST AS PER MAG STD. DTL. 131.
F. THE BOTTOM OF THE SIGN IS TO BE 7' ABOVE GRADE AND SPACED NO MORE THAN 75' APART.
G. CURBING SHALL BE PAINTED BRILLIANT RED WITH WHITE 2" LETTERING NOTES: "NO PARKING-FIRE LANE"
H. THESE SIGNS ARE NOT SUPPLIED BY THE CITY OF PHOENIX.

1A AS1.3 FIRE SIGNAGE
SCALE: 1 1/2" = 1'-0"



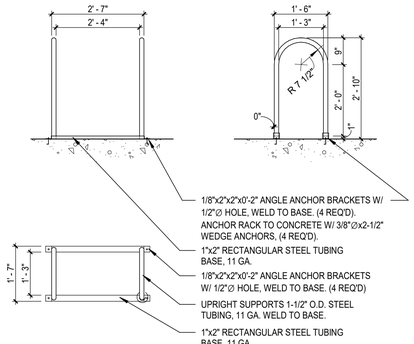
1B AS1.3 CONCRETE WHEEL STOP
SCALE: 1 1/2" = 1'-0"

NOTES:
A. EPA RATINGS AND SOIL CONDITIONS SHALL BE COORDINATED WITH POLE AND FIXTURE ASSEMBLY.
B. BONDING CONDUCTOR SHALL BE #6 BARE COPPER.
C. FIXTURE & POLE TO MATCH COLOR 'H'
D. ALL EXTERNAL LIGHTING SHALL BE LOCATED AND DESIGNED TO PREVENT RAYS FROM BEING DIRECTED OFF OF THE PROPERTY UPON WHICH THE LIGHTING IS LOCATED.



2C AS1.3 SITE POLE LIGHTING FIXTURE (IF APPLICABLE)
SCALE: 1/2" = 1'-0"

NOTES:
A. DOUBLE RACK HOLDS FOUR BICYCLES.
B. FINISH TO BE WEATHER RESISTANT, BAKED-ON POWDER POLYMER COATING.
C. SEE EXTERIOR ELEVATION SHEETS A4 SERIES FOR FINISH DESIGNATIONS.



2D AS1.3 BICYCLE RACK
SCALE: 1/2" = 1'-0"

NOTE:
A. SEE STRUCTURAL FOR REINFORCING.
B. TYPICAL WALL ELEVATION FOR UP TO 8'-0" SCREEN WALL.

MATERIAL SCHEDULE

A	MFR:	SHERWINN WILLIAMS (OR EQUAL)
	COLOR:	TO MATCH SHERWINN WILLIAMS SW6196 'FROSTY WHITE', LRV: 72
C	MFR:	SHERWINN WILLIAMS (OR EQUAL)
	COLOR:	TO MATCH SHERWINN WILLIAMS SW9570 'IRONCLAD', LRV: 11

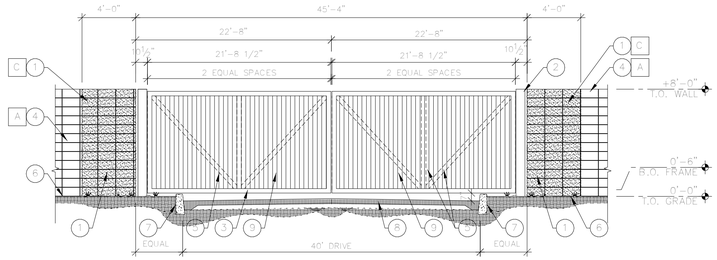
1. 8" SMOOTH FACE CMU – SEE ELEVATIONS FOR COURSING AND PATTERN
2. 8" SPLIT FACE CMU – SEE ELEVATIONS FOR COURSING AND PATTERN. CONTINUE SPLIT FACE BLOCK ONE COURSE BELOW FINISH GRADE – MIN.

2A AS1.3 8' SCREEN WALL
SCALE: 3/16" = 1'-0"

NOTES:
A. GRIND ALL WELDS SMOOTH, PRIME & PAINT.
B. PAINT ALL METAL, COLOR D.

MATERIAL SCHEDULE
PAINT:

A	MFR:	SHERWINN WILLIAMS (OR EQUAL)
	COLOR:	TO MATCH SHERWINN WILLIAMS SW6196 'FROSTY WHITE', LRV: 72
C	MFR:	SHERWINN WILLIAMS (OR EQUAL)
	COLOR:	TO MATCH SHERWINN WILLIAMS SW9570 'IRONCLAD', LRV: 11



1. SPLIT-FACE CMU SCREEN WALL - SEE SITE PLAN.
2. 8"x8" TUBE STEEL POST W/ 4 #5 VERTICAL REBAR & GROUT. PROVIDE WHEEL AT THE END OF THE GATE. INSTALL (3) HEAVY DUTY HINGES WELDED TO FRAME AND CHANNEL - PAINT TO MATCH ADJ. SURFACE.
3. 5"x5" TUBE STEEL FRAME.
4. SMOOTH-FACE CMU SCREEN WALL - SEE SITE PLAN.
5. 3"x3" TUBE STEEL WEBS.
6. GRADE VARIES - SEE CIVIL DRAWINGS.
7. CONCRETE CURB - SEE SITE PLAN AND CIVIL DRAWINGS.
8. ASPHALTIC CONCRETE OVER A.B.C. FILL - SEE CIVIL DRAWINGS.
9. 1-3/8" CORRUG'D STEEL DECKING - MIN. 22 GA.

3A AS1.3 TRUCK COURT SWING GATE
SCALE: 3/16" = 1'-0"

DLR GROUP
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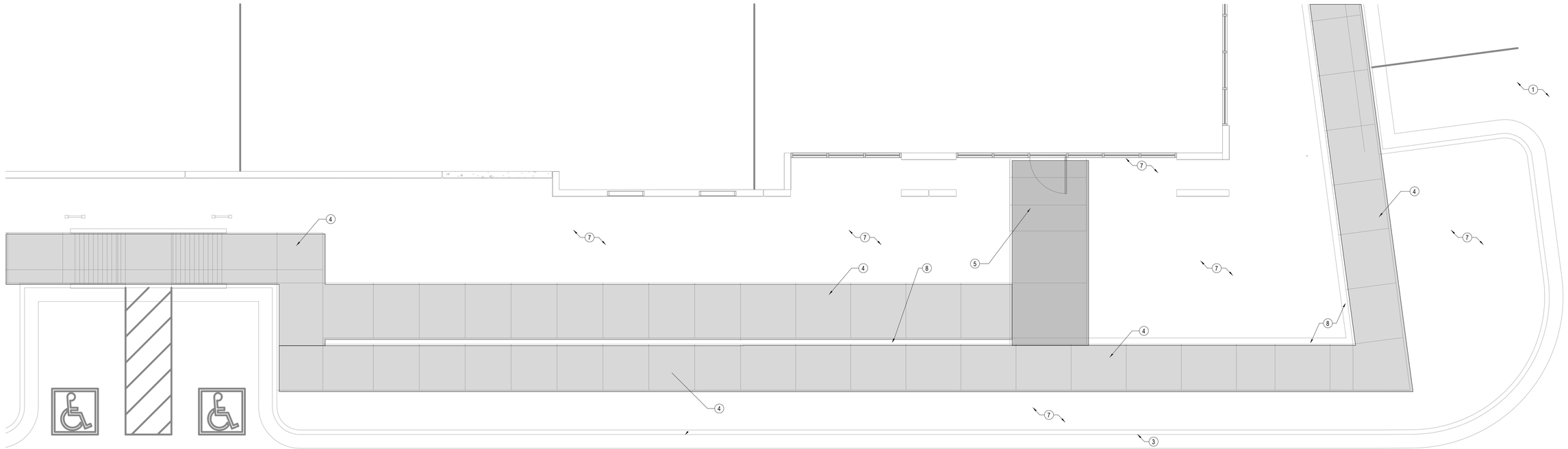
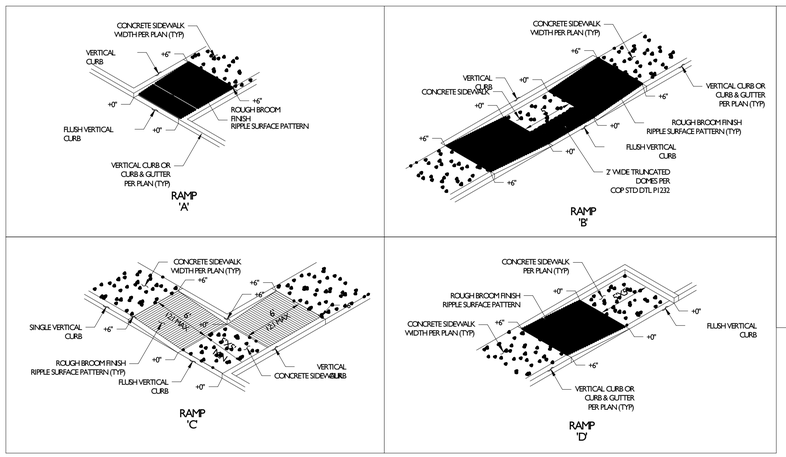


KEYNOTE LEGEND:

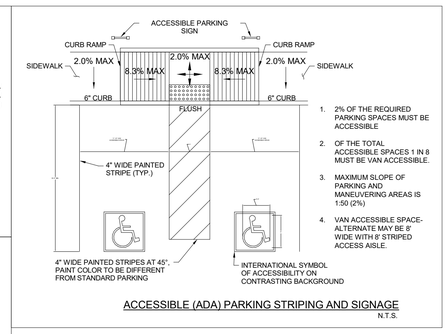
1. ASPHALT PAVING
2. NOT USED
3. 6" CONCRETE CURB
4. STANDARD BROOM FINISHED CONCRETE
5. LIGHT GRAY COLORED CONCRETE
6. NOT USED
7. LANDSCAPE
8. 8" THICK SITE/RETAINING WALL

NORTH

3 AS1.4 TYPICAL ENTRY PLAN
SCALE: 3/16" = 1'-0"



2 AS1.4 ADA RAMPS
NO SCALE



ACCESSIBLE (ADA) PARKING STRIPING AND SIGNAGE
N.T.S.

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STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
Date 2026
LICENSED ARCHITECT

Notice of Extended Payment Provision
This contract allows the owner to make payment within 16 days after certification and approval of billings and estimates for progress payments, within 16 days after certification and approval of billings and estimates for release of retention and within 16 days after certification and approval of billings and estimates for final payment.

7800 LOGISTICS W. JORDAN
GO INDUSTRIAL
4555 W 7800 S (BLDG 1) & 7888 Airport Road (BLDG 2), WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
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REVISIONS

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ENLARGED MAIN ENTRY PLAN - TYPICAL

AS1.4

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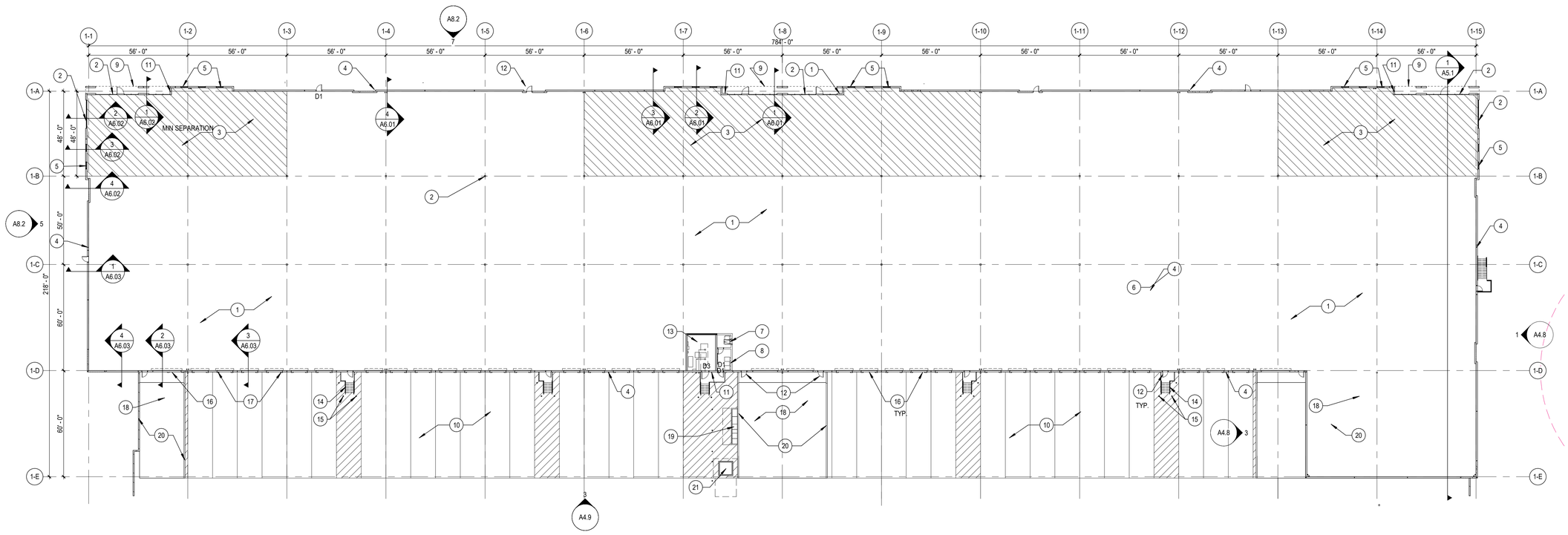

1 A1.1 BLDG 1- OVERALL FLOOR PLAN
SCALE: 1" = 30'-0"

1 CONCRETE SLAB OVER 4" ABC ON GRADE (TYP) - SEE CIVIL FOR GRADES.
2 ALUMINUM FRAMED GLASS ENTRY DOOR IN ANODIZED ALUMINUM STOREFRONT SYSTEM.
3 CONCRETE SLAB OVER VAPOR BARRIER (15 MIL. MIN.) ON 4" ABC - REFER TO STRUCTURAL DARWINGS , SOILS REPORT AND SEPECIFICATIONS. (HATCHED AREA)
4 PAINTED CONCRETE TILT-UP PANEL - SEE BUILDING ELEVATIONS FOR MATERIAL SCHEDULE.
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8 ELECTRICAL SERVICE ENTRY SECTION PANELS.
9 LINE OF CANOPY /OVERHANG ABOVE (TYP)
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11 KNOX BOX FOR FIRE DEPARTMENT ACCESS WITH ALUMINUM ANODIZED FINISH, RECECC
12 H.M. DOOR AND FRAME - PAINT TO MATCH ADJACENT PANEL (TYP)
13 FIRE RISER/PUMP ROOM
14 METAL STAIR AND LANDING
15 CONCRETE FILLED METAL PIPE BOLLARD
16 OVERHEAD ROLLING DOOR (TYP)
17 12" DOCK BUMPER (TYP)
18 CONCRETE RAMP (TYP)
19 SES CONDUIT AND PAD
20 CONC. RAMP WALL AT 42" HIGH. PAINT TO MATCH ADJACENT WALL COLOR.
21 TRANSFORMER PAD & CONDUIT

GENERAL ARCHITECTURAL NOTES

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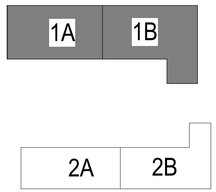
KEY PLAN



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STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
03-31-2026
LICENSED ARCHITECT

KIVA: 23-1213
Q.S.: Q9-31
PRLM: 2401758
SCMJ: 2403611
LSPL: TBD
LSIS: TBD
REZONE:Z-67-88
CPGID # 2403898
QS # 9-31
PLAT # 240035

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WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
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BLDG 1 - OVERALL FLOOR PLAN

A1.1

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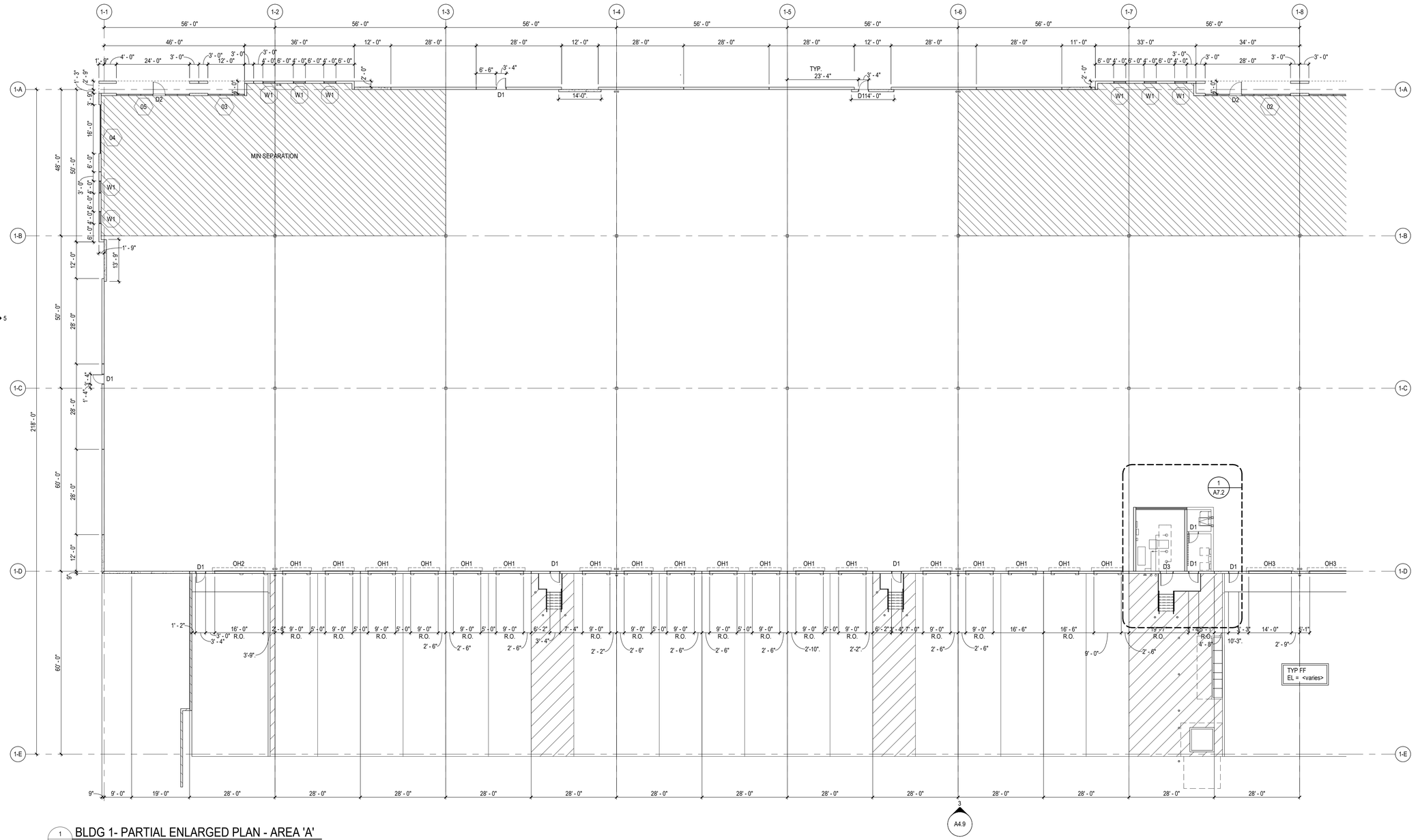

1 A1.1A BLDG 1- PARTIAL ENLARGED PLAN - AREA 'A'
SCALE: 1/16" = 1'-0"

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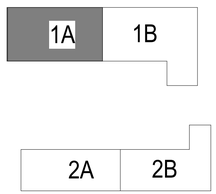

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STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
01-31-2026
LICENSED ARCHITECT

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Q.S.: Q9-31
PRLM: 2401758
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WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
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BLDG 1 - PARTIAL ENLARGED PLAN - AREA 'A'

A1.1A

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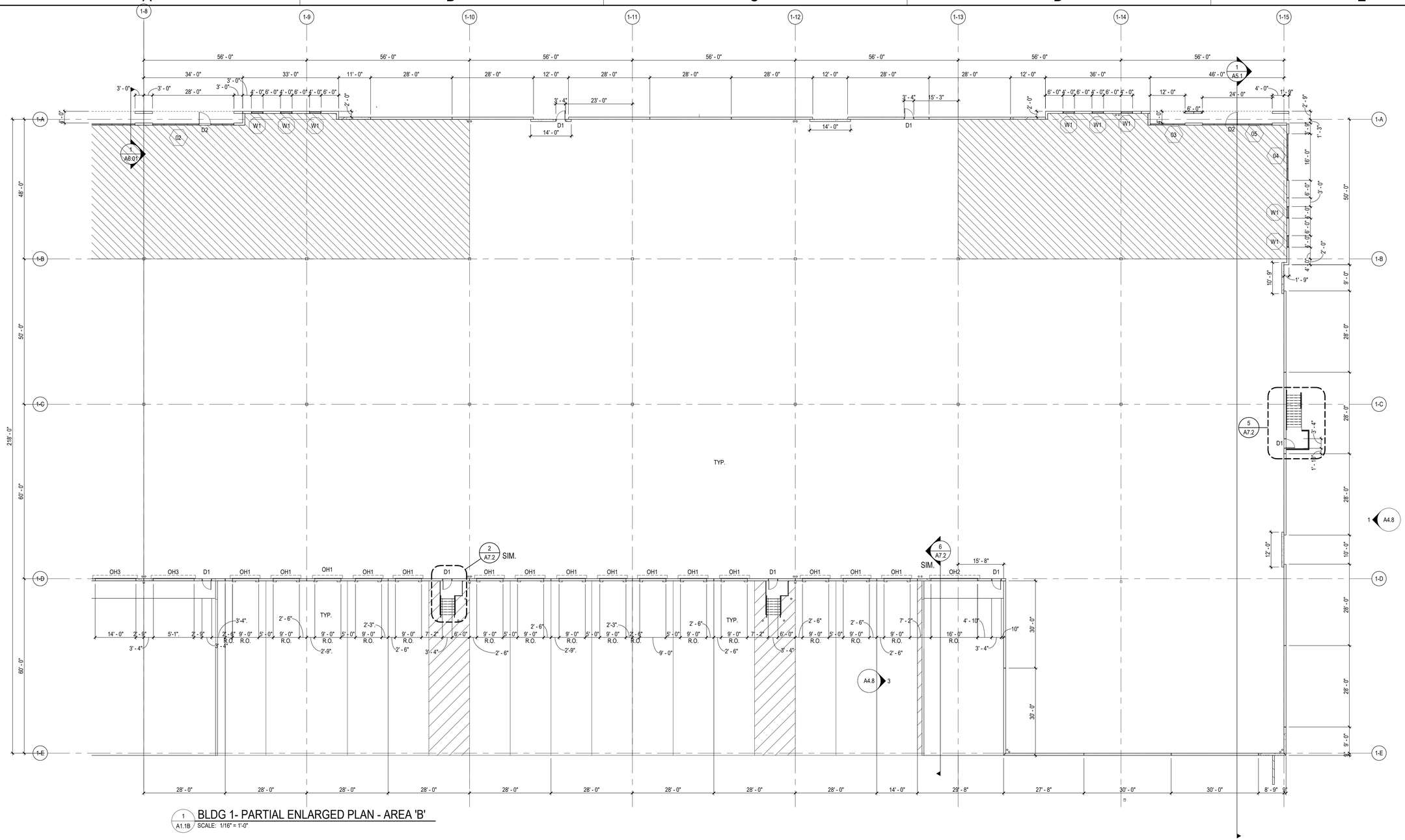

1 A1.1B BLDG 1- PARTIAL ENLARGED PLAN - AREA 'B'
SCALE: 1/16" = 1'-0"

1 CONCRETE SLAB OVER 4" ABC ON GRADE (TYP) - SEE CIVIL FOR GRADES.
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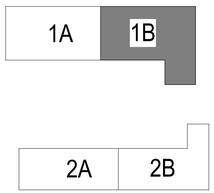

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STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
01-31-2026
LICENSED ARCHITECT

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GO INDUSTRIAL

4555 W 7800 S (BLDG 1) & 7888 Airport Road (BLDG 2),
WEST JORDAN, UT 84088

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BLDG 1 -PARTIAL ENLARGED PLAN - AREA 'B'

A1.1B

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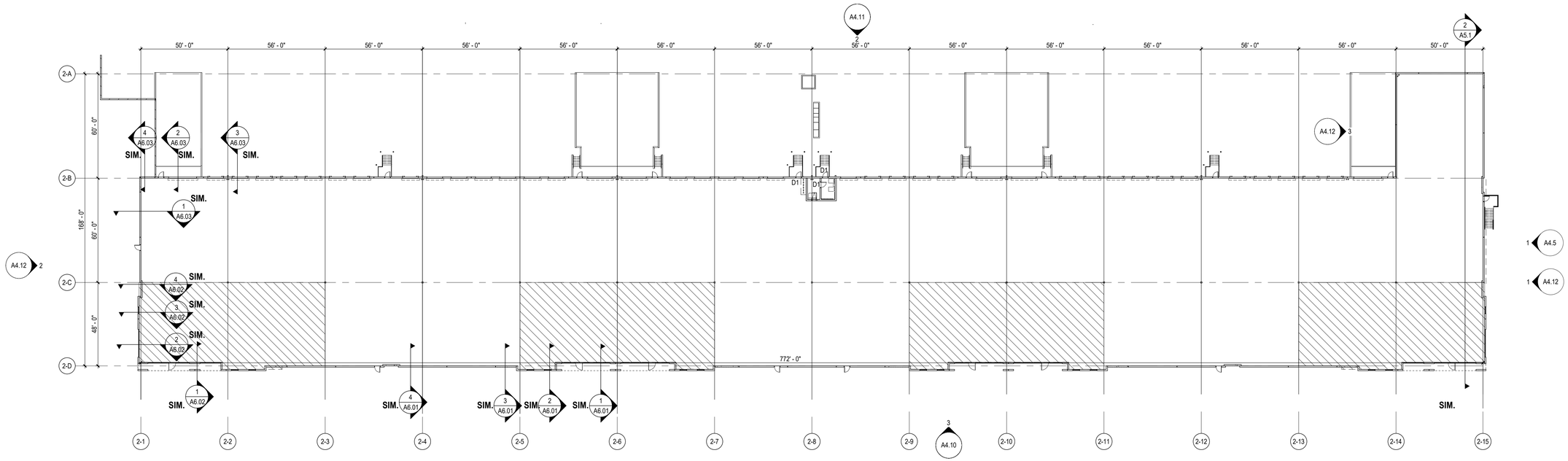

1 A1.2 BLDG 2- OVERALL FLOOR PLAN

SCALE: 1" = 30'-0"

N

1 CONCRETE SLAB OVER 4" ABC ON GRADE (TYP) - SEE CIVIL FOR GRADES.
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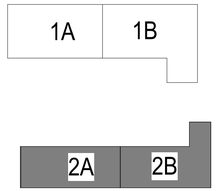

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STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
05-31-2026
LICENSED ARCHITECT

KIVA: 23-1213
Q.S.: Q9-31
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BLDG 2 - OVERALL FLOOR PLAN

A1.2

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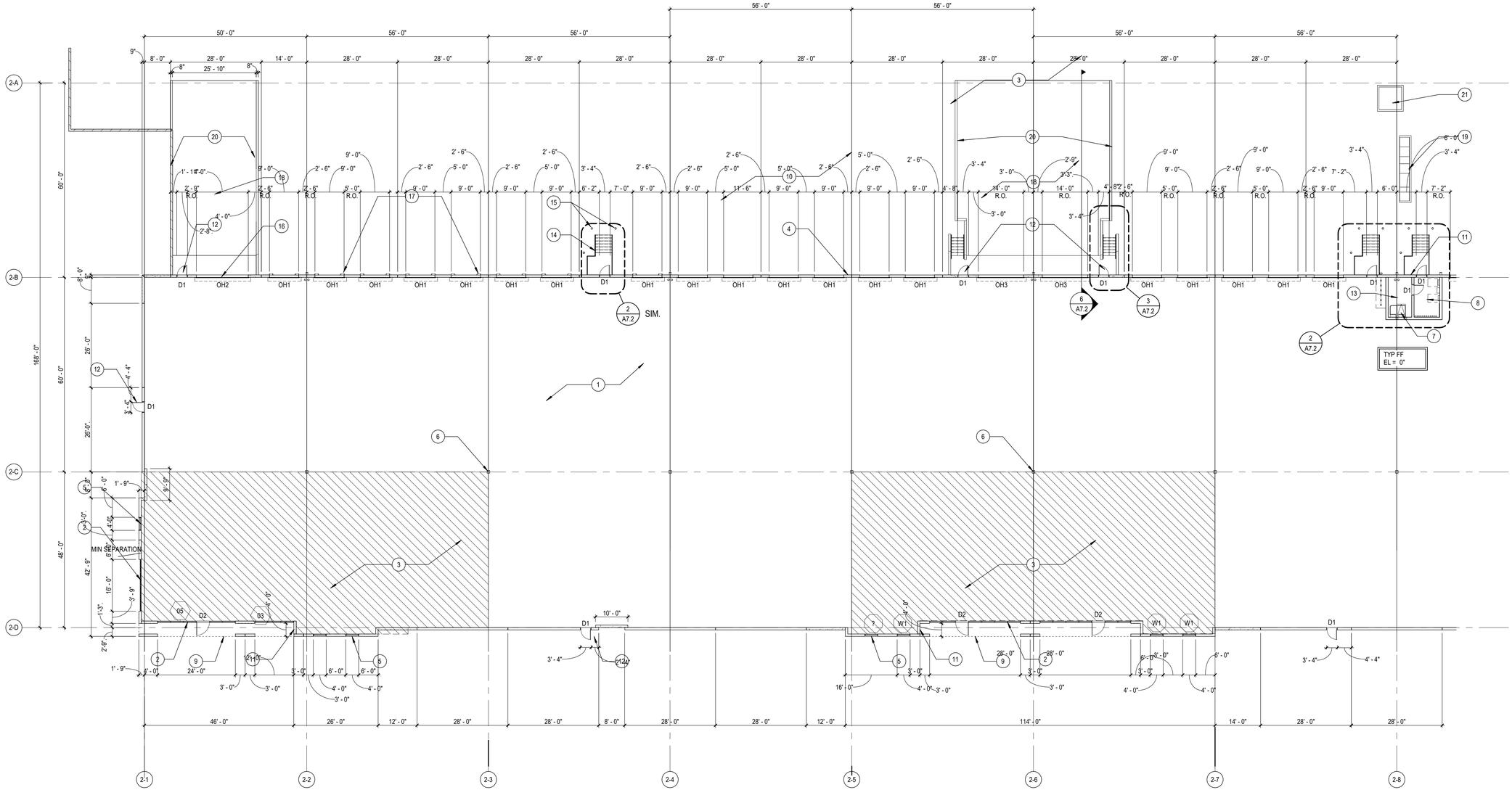

1 A1.2A BLDG 2 - PARTIAL ENLARGED FLOOR PLAN - AREA 'A'
SCALE: 1/16" = 1'-0"

1 CONCRETE SLAB OVER 4" ABC ON GRADE (TYP) - SEE CIVIL FOR GRADES.
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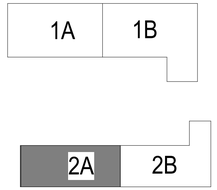

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WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

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BLDG 2 - PARTIAL ENLARGED PLAN - AREA 'A'

A1.2A

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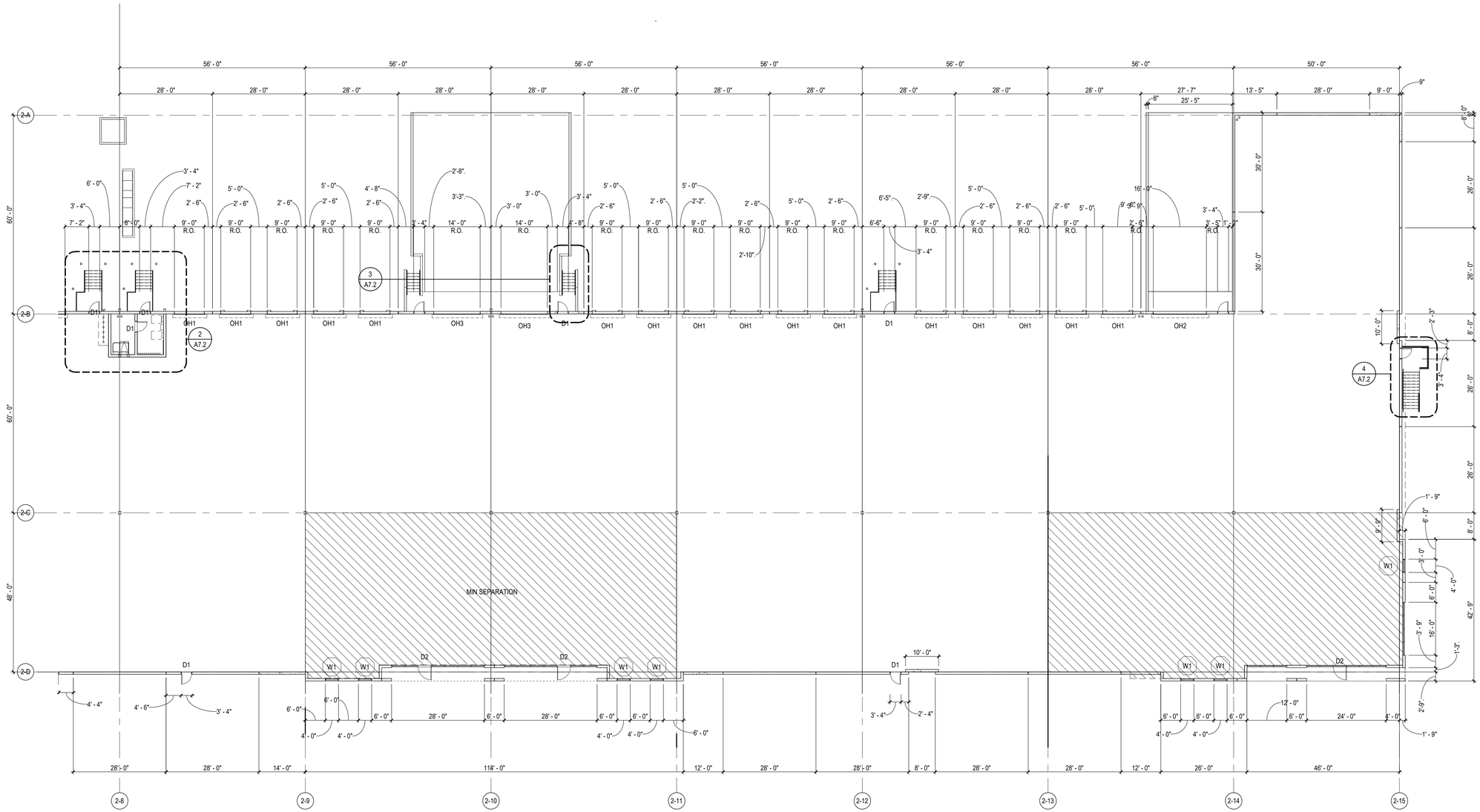

1 A1.2B BLDG 2 - PARTIAL ENLARGED FLOOR PLAN - AREA 'B'
SCALE: 1/16" = 1'-0"

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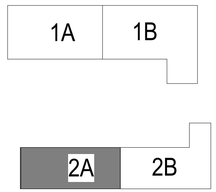
13 FIRE RISER/PUMP ROOM
14 METAL STAIR AND LANDING
15 CONCRETE FILLED METAL PIPE BOLLARD
16 OVERHEAD ROLLING DOOR (TYP)
17 12" DOCK BUMPER (TYP)
18 CONCRETE RAMP (TYP)
19 SES CONDUIT AND PAD
20 CONC. RAMP WALL AT 42" HIGH. PAINT TO MATCH ADJACENT WALL COLOR.
21 TRANSFORMER PAD & CONDUIT

GENERAL ARCHITECTURAL NOTES

1. ON ALL EXPOSED METAL WORK WELDS AND BRANDS TO BE GROUND VERY SMOOTH AND PAINTED.
2. ALL ROOF MOUNTED MECHANICAL EQUIPMENT SHALL BE FULLY SCREENED BY PARAPET WALLS EQUAL OR GREATER THAN THE HIGHEST POINT ON THE MECHANICAL EQUIPMENT.
3. INTERIOR COLUMNS SHALL HAVE GRAY SHOP PRIMER TO BE PAINTED SAFETY YELLOW 10' A.F.F. AND THE REST TO BE WHITE. STRUCTURE TO BE PAINTED WHITE.

KEY PLAN



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STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
02-27-2026
LICENSED ARCHITECT

KIVA: 23-1213
Q.S.: Q9-31
PRLM: 2401758
SCMJ: 2403611
LSPL: TBD
LSIS: TBD
REZONE:Z-67-88
CPGD # 2403898
QS # 9-31
PLAT # 240035

Notice of Extended Payment Provision
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GO INDUSTRIAL

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WEST JORDAN, UT 84088

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BLDG 2 - PARTIAL ENLARGED PLAN - AREA 'B'

A1.2B

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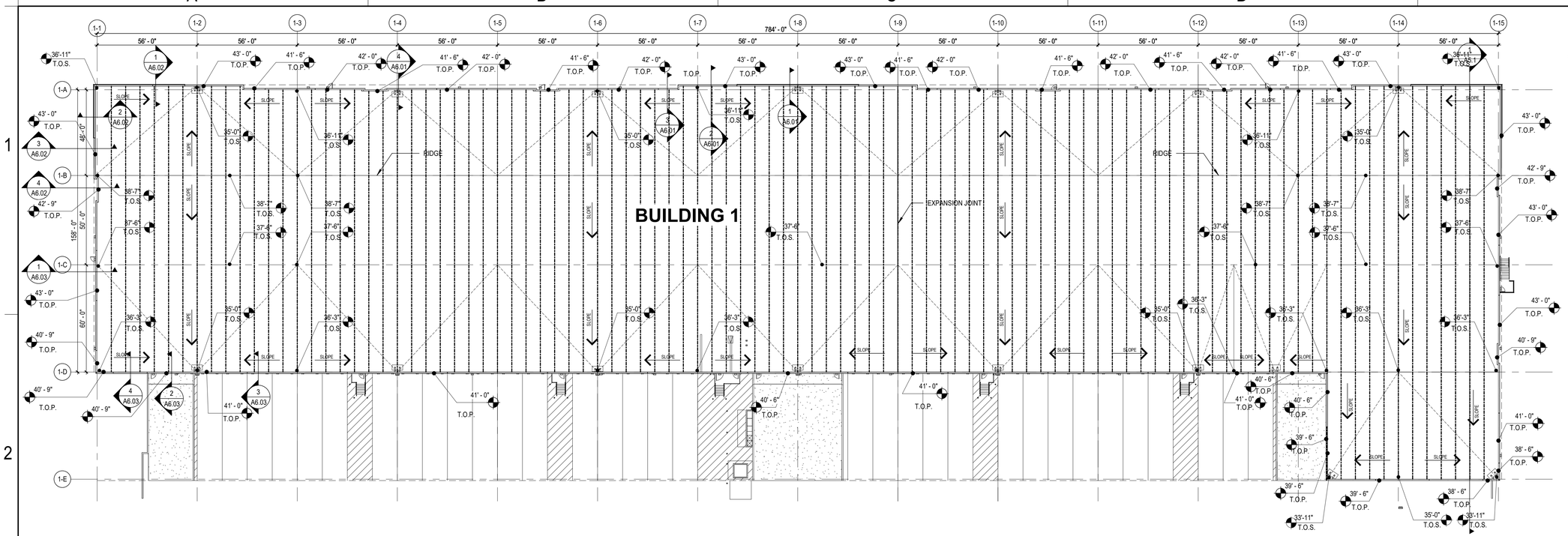

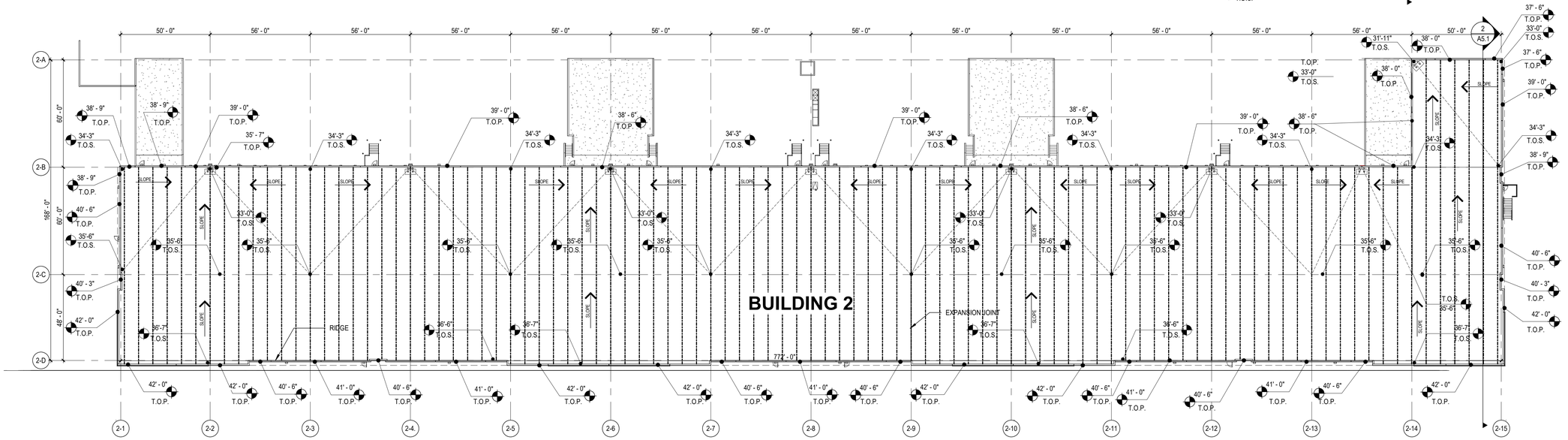

ROOF PLAN GENERAL NOTES

A. ROOF PLAN GENERAL NOTES APPLY TO ALL ROOF PLAN SHEETS.
B. ROOF SLOPES ARE CREATED BY SLOPING THE ROOF STRUCTURE UNLESS NOTED OTHERWISE.
C. SEE STRUCTURAL DRAWINGS FOR FRAMING AROUND ROOF PENETRATIONS.
D. COORDINATE THE SIZE AND LOCATION OF ROOF PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS DRAWING.
E. FLASH DRAINS, CURBS, VENTS AND STACKS PER MANUFACTURER'S RECOMMENDATIONS IF DETAIL NOT SHOWN ON DRAWINGS.

2 EXPANSION JOINT
3 SINGLE PLY TPO ROOFING MEMBRANE ON 1" POLYISO ROOF BOARD ON PLYWOOD SHEATHING WITH R-30 INSULATION AND SCRIM SHEET WIRED TO UNDERSIDE OF DECK
4 ROOF HATCH

N

BLDG. 1 AND BLDG.2 - ROOF PLAN

SCALE: 1" = 30'-0"

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STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
05-31-2026
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ROOF PLAN

A1.3

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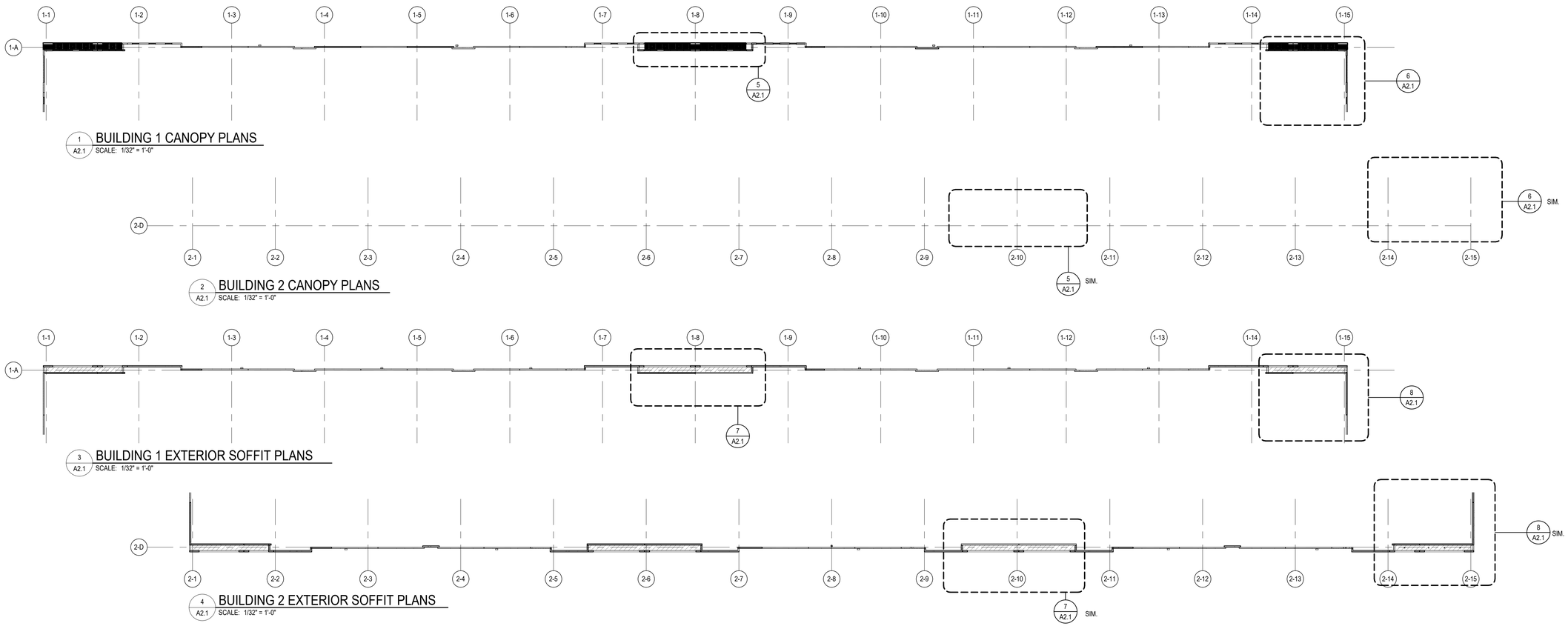
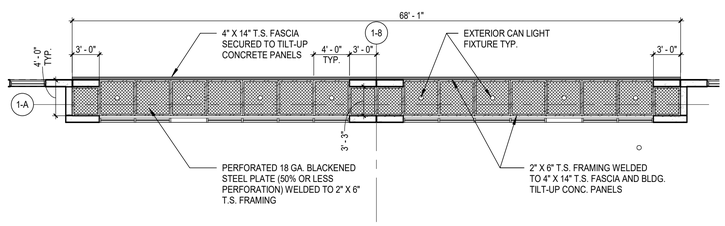


1 A2.1 BUILDING 1 CANOPY PLANS
SCALE: 1/32" = 1'-0"

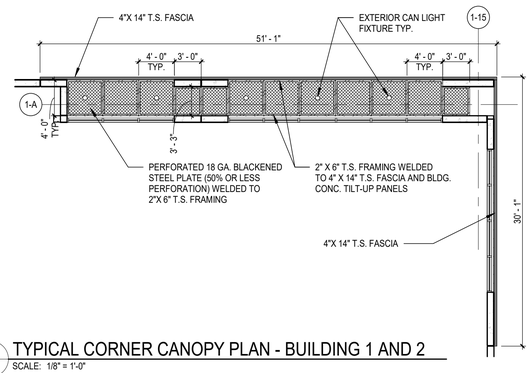
2 A2.1 BUILDING 2 CANOPY PLANS
SCALE: 1/32" = 1'-0"

3 A2.1 BUILDING 1 EXTERIOR SOFFIT PLANS
SCALE: 1/32" = 1'-0"

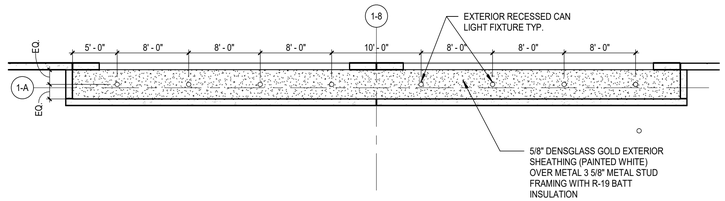
4 A2.1 BUILDING 2 EXTERIOR SOFFIT PLANS
SCALE: 1/32" = 1'-0"



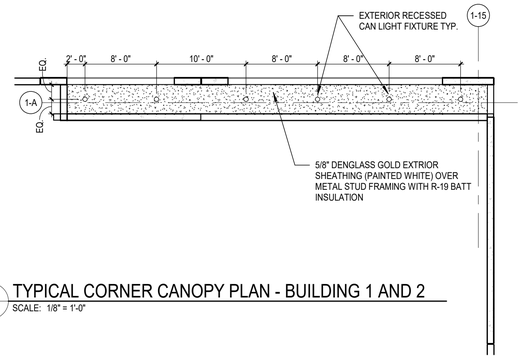
5 A2.1 TYPICAL MIDDLE CANOPY PLAN - BUILDING 1 AND BUILDING 2
SCALE: 1/8" = 1'-0"



6 A2.1 TYPICAL CORNER CANOPY PLAN - BUILDING 1 AND 2
SCALE: 1/8" = 1'-0"



7 A2.1 TYPICAL MIDDLE CANOPY PLAN - BUILDING 1 AND BUILDING 2
SCALE: 1/8" = 1'-0"



8 A2.1 TYPICAL CORNER CANOPY PLAN - BUILDING 1 AND 2
SCALE: 1/8" = 1'-0"

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STATE OF UTAH
TIMOTHY L THIELKE
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05-31-2026
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REZONE:Z-67-88
CPGID # 2403898
QS # 9-31
PLAT # 240035

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CANOPY AND EXTERIOR SOFFIT PLANS

A2.1

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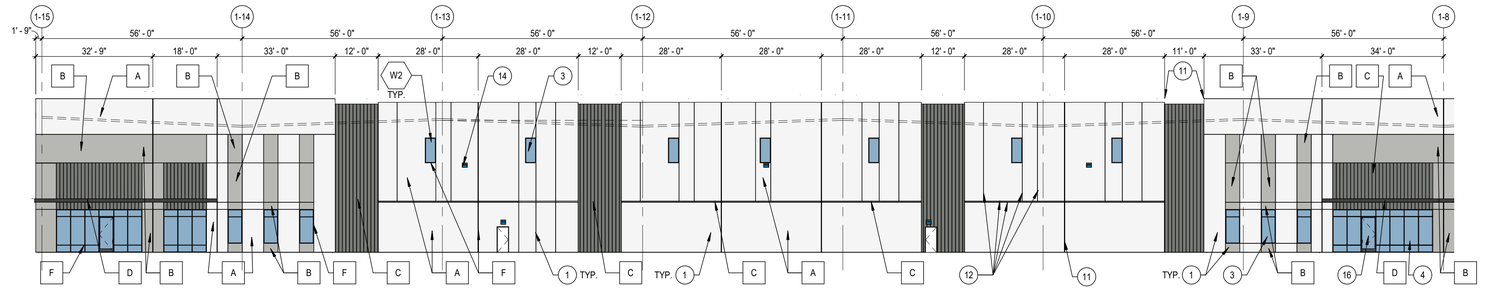
1 A4.1 BLDG 1 - NORTH ELEVATION - OVERALL
SCALE: 1" = 40'-0"



2 A4.1 BLDG 1 - ENLARGED NORTH ELEVATION - AREA 'A'
SCALE: 1" = 20'-0"

3 A4.1 BLDG 1 - ENLARGED NORTH ELEVATION - AREA 'B'
SCALE: 1" = 20'-0"

1 PAINTED CONCRETE TILT PANEL
2 1" INSULATED GLAZING
3 ALUMINUM FRAMED FIXED LOW E GLAZING
4 STOREFRONT SYSTEM WITH LOW E GLAZING (TYP)
5 MECHANICAL UNIT BEYOND
6 ROOF BEYOND
7 OVERHEAD SECTIONAL DOOR - PAINT TO MATCH ADJACENT PANEL (TYP)
8 DOCK BUMPER (TYP)
9 PIPE BOLLARD (TYP)
10 METAL STAIR AND LANDING (TYP)
11 PANEL JOINT (TYP)
12 1/2" DEEP V-GROOVE JOINT (TYP)
13 KNOCK OUT PANEL
14 EXTERIOR WALL MOUNTED LIGHT FIXTURE
15 METAL CANOPY (TYP)
16 AL/GL DOOR TO MATCH STOREFRONT SYSTEM
17 ROOF SCUPPER DRAIN SYSTEM
18 HOLLOW METAL DOOR AND FRAME - PAINT TO MATCH ADJACENT WALL COLOR
20 T.B.D.

MATERIAL SCHEDULE

PAINT:

A — MFR: SHERWIN WILLIAMS (OR EQUAL)
COLOR: TO MATCH SHERWIN WILLIAMS SW6196 'FROSTY WHITE', LRV: 72

B — MFR: SHERWIN WILLIAMS (OR EQUAL)
COLOR: TO MATCH SHERWIN WILLIAMS SW9170 'ACIER', LRV: 32

C — MFR: SHERWIN WILLIAMS (OR EQUAL)
COLOR: TO MATCH SHERWIN WILLIAMS SW9570 'IRONCLAD', LRV: 11

D — MFR: SHERWIN WILLIAMS (OR EQUAL)
COLOR: TO MATCH SHERWIN WILLIAMS SW6258 'TRICORN BLACK', LRV: 3

ALUMINUM STOREFRONT / GLAZING:

E — MFR: VITRO (OR EQUAL)
TYPE: 1" INSULATED , REFLECTIVE
COLOR: SOLARCOOL PACIFICA REFLECTIVE #2

F — MFR: ARCADIA (OR EQUAL)
TYPE: ANODIZED ALUMINUM
COLOR: #85, AB-8, BLACK

MASONRY:

G — MFR: SUPERLITE (OR EQUAL)
SIZE: 8" x 8" x 16"
TEXTURE: HONED FINISH
COLOR: 'BLACK'

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STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
05-31-2026
LICENSED ARCHITECT

KIVA: 23-1213
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GO INDUSTRIAL

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WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
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EXTERIOR ELEVATIONS - BLDG 1 - NORTH

A4.1

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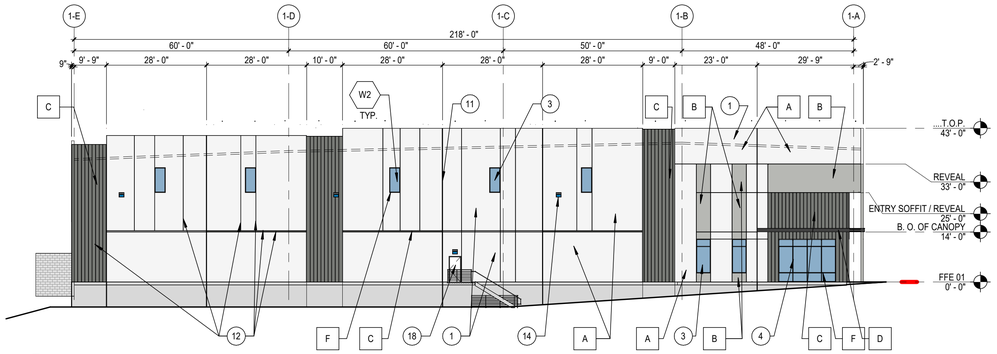
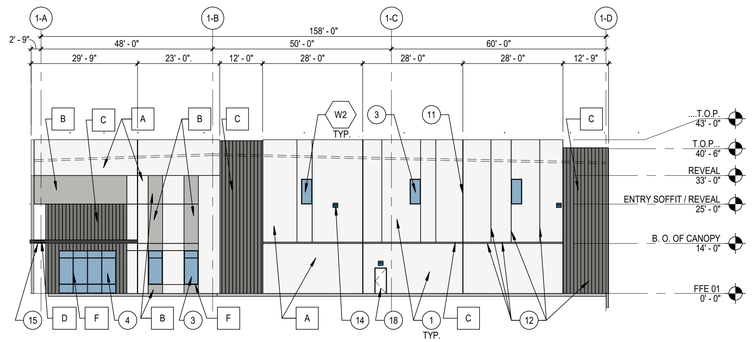
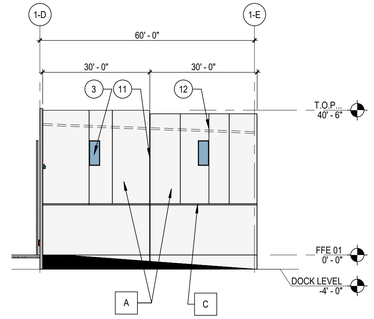


1 A4.2 BLDG 1 - EAST ELEVATION - OVERALL
SCALE: 1" = 20'-0"



2 A4.2 BLDG 1 - WEST ELEVATION - OVERALL
SCALE: 1" = 20'-0"



3 A4.2 BLDG.1 - PARTIAL WEST ELEVATION
SCALE: 1" = 20'-0"

1 PAINTED CONCRETE TILT PANEL
2 1" INSULATED GLAZING
3 ALUMINUM FRAMED FIXED LOW E GLAZING
4 STOREFRONT SYSTEM WITH LOW E GLAZING (TYP)
5 MECHANICAL UNIT BEYOND
6 ROOF BEYOND
7 OVERHEAD SECTIONAL DOOR - PAINT TO MATCH ADJACENT PANEL (TYP)
8 DOCK BUMPER (TYP)
9 PIPE BOLLARD (TYP)
10 METAL STAIR AND LANDING (TYP)
11 PANEL JOINT (TYP)
12 1/2" DEEP V-GROOVE JOINT (TYP)
13 KNOCK OUT PANEL
14 EXTERIOR WALL MOUNTED LIGHT FIXTURE
15 METAL CANOPY (TYP)
16 AL/GL DOOR TO MATCH STOREFRONT SYSTEM
17 ROOF SCUPPER DRAIN SYSTEM
18 HOLLOW METAL DOOR AND FRAME - PAINT TO MATCH ADJACENT WALL COLOR
20 T.B.D.

MATERIAL SCHEDULE

PAINT:

A — MFR: SHERWIN WILLIAMS (OR EQUAL)
COLOR: TO MATCH SHERWIN WILLIAMS SW6196 "FROSTY WHITE", LRV: 72

B — MFR: SHERWIN WILLIAMS (OR EQUAL)
COLOR: TO MATCH SHERWIN WILLIAMS SW9170 "ACIER", LRV: 32

C — MFR: SHERWIN WILLIAMS (OR EQUAL)
COLOR: TO MATCH SHERWIN WILLIAMS SW9570 "IRONCLAD", LRV: 11

D — MFR: SHERWIN WILLIAMS (OR EQUAL)
COLOR: TO MATCH SHERWIN WILLIAMS SW6258 "TRICORN BLACK", LRV: 3

ALUMINUM STOREFRONT / GLAZING:

E — MFR: VITRO (OR EQUAL)
TYPE: 1" INSULATED , REFLECTIVE
COLOR: SOLARCOOL PACIFICA REFLECTIVE #2

F — MFR: ARCADIA (OR EQUAL)
TYPE: ANODIZED ALUMINUM
COLOR: #85, AB-8, BLACK

MASONRY:

G — MFR: SUPERLITE (OR EQUAL)
SIZE: 8" x 8" x 16"
TEXTURE: HONED FINISH
COLOR: 'BLACK'

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STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
02-27-2026
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7800 LOGISTICS W. JORDAN

GO INDUSTRIAL

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WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
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EXTERIOR ELEVATIONS - BLDG 1 - EAST & WEST

A4.2

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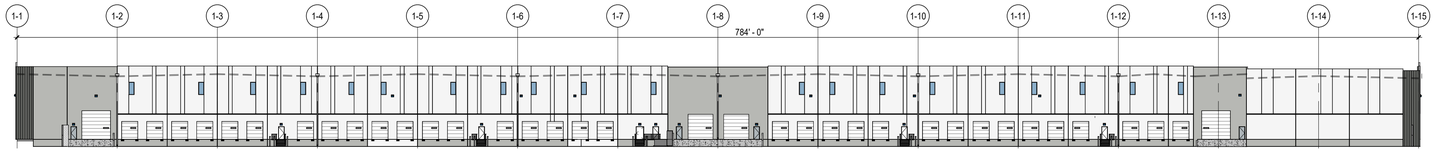
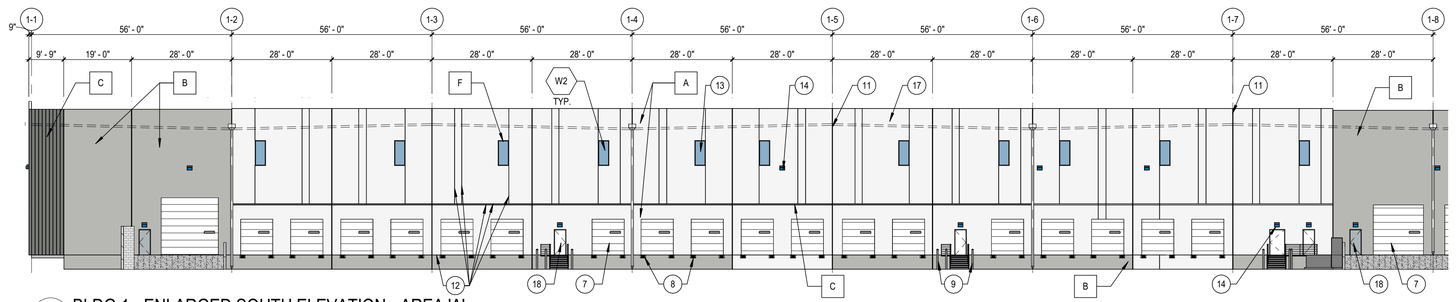
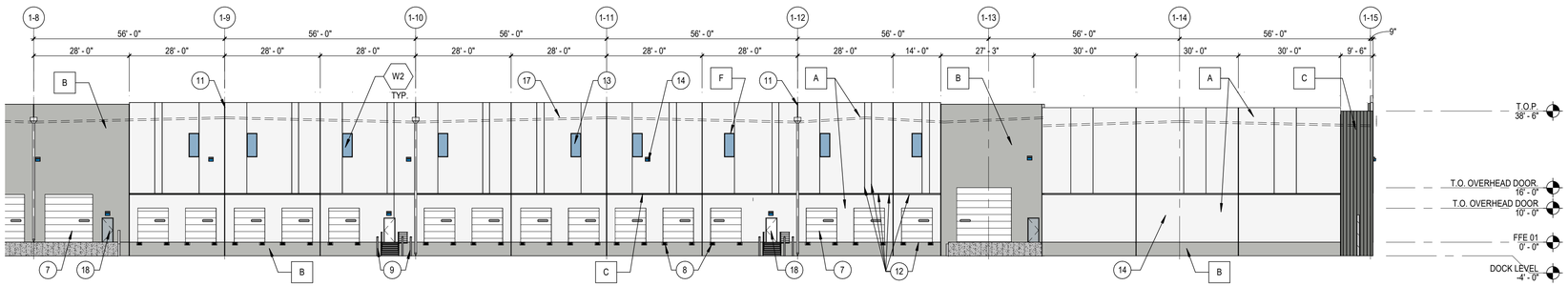


1 / A4.3 BLDG 1 - SOUTH ELEVATION - OVERALL
SCALE: 1" = 40'-0"



2 / A4.3 BLDG 1 - ENLARGED SOUTH ELEVATION - AREA 'A'
SCALE: 1" = 20'-0"



3 / A4.3 BLDG 1 - ENLARGED SOUTH ELEVATION - AREA 'B'
SCALE: 1" = 20'-0"

1 PAINTED CONCRETE TILT PANEL
2 1" INSULATED GLAZING
3 ALUMINUM FRAMED FIXED LOW E GLAZING
4 STOREFRONT SYSTEM WITH LOW E GLAZING (TYP)
5 MECHANICAL UNIT BEYOND
6 ROOF BEYOND
7 OVERHEAD SECTIONAL DOOR - PAINT TO MATCH ADJACENT PANEL (TYP)
8 DOCK BUMPER (TYP)
9 PIPE BOLLARD (TYP)
10 METAL STAIR AND LANDING (TYP)
11 PANEL JOINT (TYP)
12 1/2" DEEP V-GROOVE JOINT (TYP)
13 KNOCK OUT PANEL
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16 AL/GL DOOR TO MATCH STOREFRONT SYSTEM
17 ROOF SCUPPER DRAIN SYSTEM
18 HOLLOW METAL DOOR AND FRAME - PAINT TO MATCH ADJACENT WALL COLOR
20 T.B.D.

MATERIAL SCHEDULE

PAINT:

A — MFR: SHERWIN WILLIAMS (OR EQUAL)
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B — MFR: SHERWIN WILLIAMS (OR EQUAL)
COLOR: TO MATCH SHERWIN WILLIAMS SW9170 "ACIER", LRV: 32

C — MFR: SHERWIN WILLIAMS (OR EQUAL)
COLOR: TO MATCH SHERWIN WILLIAMS SW9570 "IRONCLAD", LRV: 11

D — MFR: SHERWIN WILLIAMS (OR EQUAL)
COLOR: TO MATCH SHERWIN WILLIAMS SW6258 "TRICORN BLACK", LRV: 3

ALUMINUM STOREFRONT / GLAZING:

E — MFR: VITRO (OR EQUAL)
TYPE: 1" INSULATED , REFLECTIVE
COLOR: SOLARCOOL PACIFICA REFLECTIVE #2

F — MFR: ARCADIA (OR EQUAL)
TYPE: ANODIZED ALUMINUM
COLOR: #85, AB-8, BLACK

MASONRY:

G — MFR: SUPERLITE (OR EQUAL)
SIZE: 8" x 8" x 16"
TEXTURE: HONED FINISH
COLOR: 'BLACK'

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EXTERIOR ELEVATIONS - BLDG 1 - SOUTH

A4.3

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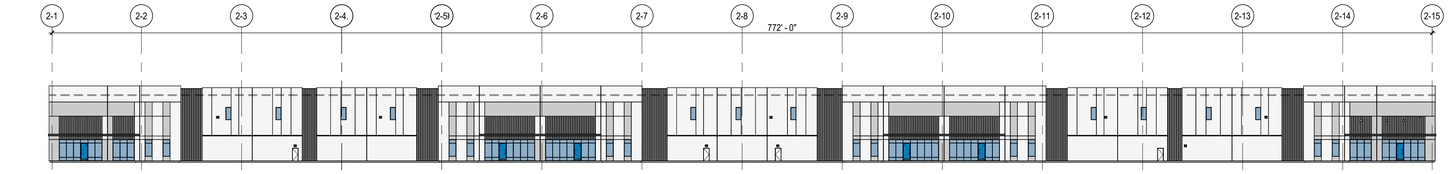
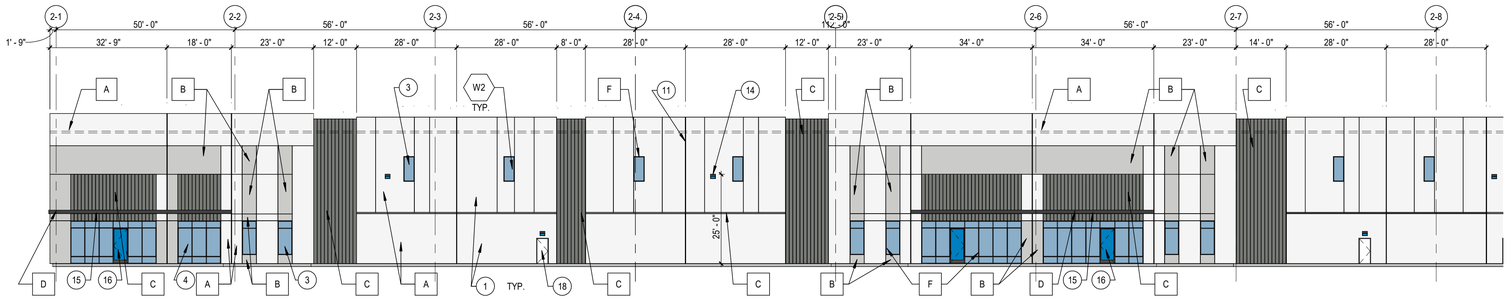
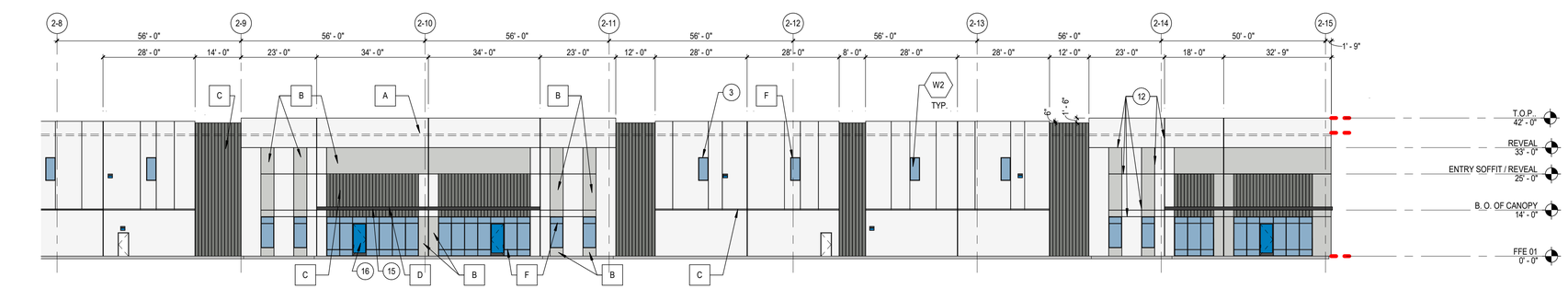


1 A4.4 BLDG 2 - SOUTH ELEVATION - OVERALL
SCALE: 1" = 40'-0"



2 A4.4 BLDG 2 - ENLARGED SOUTH ELEVATION - AREA 'A'
SCALE: 1" = 20'-0"



3 A4.4 BLDG 2 - ENLARGED SOUTH ELEVATION - AREA 'B'
SCALE: 1" = 20'-0"

1 PAINTED CONCRETE TILT PANEL
2 1" INSULATED GLAZING
3 ALUMINUM FRAMED FIXED LOW E GLAZING
4 STOREFRONT SYSTEM WITH LOW E GLAZING (TYP)
5 MECHANICAL UNIT BEYOND
6 ROOF BEYOND
7 OVERHEAD SECTIONAL DOOR - PAINT TO MATCH ADJACENT PANEL (TYP)
8 DOCK BUMPER (TYP)
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10 METAL STAIR AND LANDING (TYP)
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12 1/2" DEEP V-GROOVE JOINT (TYP)
13 KNOCK OUT PANEL
14 EXTERIOR WALL MOUNTED LIGHT FIXTURE
15 METAL CANOPY (TYP)
16 ALUM. DOOR TO MATCH STOREFRONT SYSTEM
17 ROOF SCUPPER DRAIN SYSTEM
18 HOLLOW METAL DOOR AND FRAME - PAINT TO MATCH ADJACENT WALL COLOR
20 T.B.D.

MATERIAL SCHEDULE

PAINT:

A — MFR: SHERWIN WILLIAMS (OR EQUAL)
COLOR: TO MATCH SHERWIN WILLIAMS SW6196 'FROSTY WHITE', LRV: 72

B — MFR: SHERWIN WILLIAMS (OR EQUAL)
COLOR: TO MATCH SHERWIN WILLIAMS SW9170 'ACIER', LRV: 32

C — MFR: SHERWIN WILLIAMS (OR EQUAL)
COLOR: TO MATCH SHERWIN WILLIAMS SW9570 'IRONCLAD', LRV: 11

D — MFR: SHERWIN WILLIAMS (OR EQUAL)
COLOR: TO MATCH SHERWIN WILLIAMS SW6258 'TRICORN BLACK', LRV: 3

ALUMINUM STOREFRONT / GLAZING:

E — MFR: VITRO (OR EQUAL)
TYPE: 1" INSULATED , REFLECTIVE
COLOR: SOLARCOOL PACIFICA REFLECTIVE #2

F — MFR: ARCADIA (OR EQUAL)
TYPE: ANODIZED ALUMINUM
COLOR: #85, AB-8, BLACK

MASONRY:

G — MFR: SUPERLITE (OR EQUAL)
SIZE: 8" x 8" x 16"
TEXTURE: HONED FINISH
COLOR: 'BLACK'

DLR GROUP
© DLR Group

STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
02-27-2026
LICENSED ARCHITECT

KIVA: 23-1213
Q.S.: Q9-31
PRLM: 2401758
SCMJ: 2403611
LSPL: TBD
LSIS: TBD
REZONE:Z-67-88
CPGD # 2403898
QS # 9-31
PLAT # 240035

Notice of Extended Payment Provision
This contract allows the owner to make payment within 16 days after certification and approval of billings and estimates for progress payments, within 16 days after certification and approval of billings and estimates for release of retention and within 16 days after certification and approval of billings and estimates for final payment.

7800 LOGISTICS W. JORDAN

GO INDUSTRIAL

4555 W 7800 S (BLDG.1) & 7888 Airport Road (BLDG.2),
WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

29-26101-00

EXTERIOR ELEVATIONS - BLDG 2 - SOUTH

A4.4

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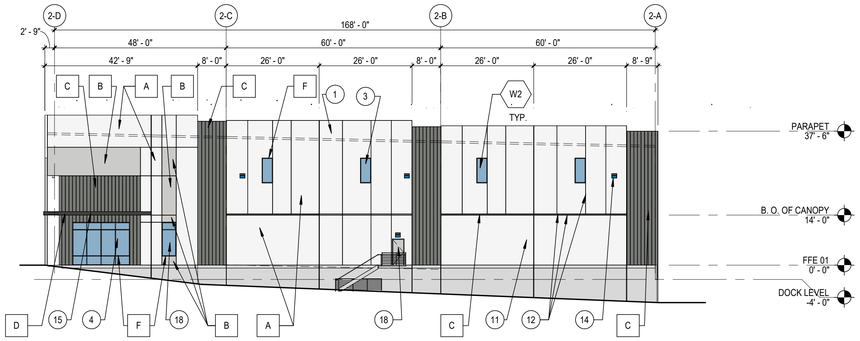
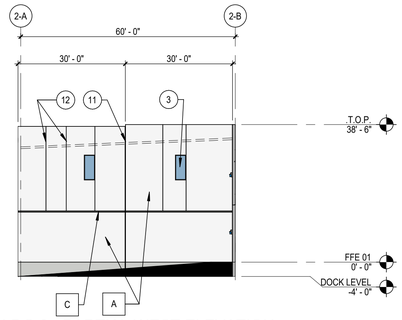
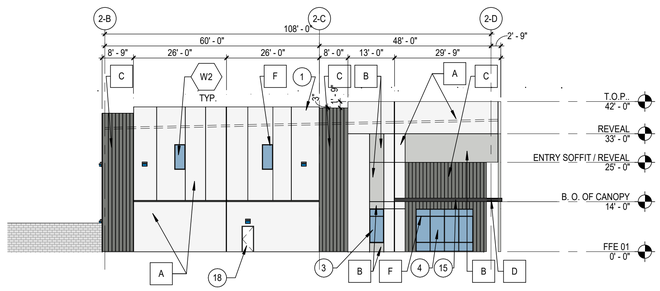


1 A4.5 BLDG 2 - EAST ELEVATION - OVERALL
SCALE: 1" = 20'-0"



3 A4.5 BLDG.2 - PARTIAL WEST ELEVATION
SCALE: 1" = 20'-0"



2 A4.5 BLDG 2 - WEST ELEVATION - OVERALL
SCALE: 1" = 20'-0"

TYP.

1 PAINTED CONCRETE TILT PANEL
2 1" INSULATED GLAZING
3 ALUMINUM FRAMED FIXED LOW E GLAZING
4 STOREFRONT SYSTEM WITH LOW E GLAZING (TYP)
5 MECHANICAL UNIT BEYOND
6 ROOF BEYOND
7 OVERHEAD SECTIONAL DOOR - PAINT TO MATCH ADJACENT PANEL (TYP)
8 DOCK BUMPER (TYP)
9 PIPE BOLLARD (TYP)
10 METAL STAIR AND LANDING (TYP)
11 PANEL JOINT (TYP)
12 1/2" DEEP V-GROOVE JOINT (TYP)
13 KNOCK OUT PANEL
14 EXTERIOR WALL MOUNTED LIGHT FIXTURE
15 METAL CANOPY (TYP)
16 AL/GL DOOR TO MATCH STOREFRONT SYSTEM
17 ROOF SCUPPER DRAIN SYSTEM
18 HOLLOW METAL DOOR AND FRAME - PAINT TO MATCH ADJACENT WALL COLOR
20 T.B.D.

MATERIAL SCHEDULE

PAINT:

A — MFR: SHERWIN WILLIAMS (OR EQUAL)
COLOR: TO MATCH SHERWIN WILLIAMS SW6196 'FROSTY WHITE', LRV: 72

B — MFR: SHERWIN WILLIAMS (OR EQUAL)
COLOR: TO MATCH SHERWIN WILLIAMS SW9170 'ACIER', LRV: 32

C — MFR: SHERWIN WILLIAMS (OR EQUAL)
COLOR: TO MATCH SHERWIN WILLIAMS SW9570 'IRONCLAD', LRV: 11

D — MFR: SHERWIN WILLIAMS (OR EQUAL)
COLOR: TO MATCH SHERWIN WILLIAMS SW6258 'TRICORN BLACK', LRV: 3

ALUMINUM STOREFRONT / GLAZING:

E — MFR: VITRO (OR EQUAL)
TYPE: 1" INSULATED , REFLECTIVE
COLOR: SOLARCOOL PACIFICA REFLECTIVE #2

F — MFR: ARCADIA (OR EQUAL)
TYPE: ANODIZED ALUMINUM
COLOR: #85, AB-8, BLACK

MASONRY:

G — MFR: SUPERLITE (OR EQUAL)
SIZE: 8" x 8" x 16"
TEXTURE: HONED FINISH
COLOR: 'BLACK'

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STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
05-31-2026
LICENSED ARCHITECT

KIVA: 23-1213
Q.S.: Q9-31
PRLM: 2401758
SCMJ: 2403611
LSPL: TBD
LSIS: TBD
REZONE:Z-67-88
CPGD # 2403898
QS # 9-31
PLAT # 240035

Notice of Extended Payment Provision
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7800 LOGISTICS W. JORDAN

GO INDUSTRIAL

4555 W 7800 S (BLDG 1) & 7888 Airport Road (BLDG 2),
WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

29-26101-00

EXTERIOR ELEVATIONS - BLDG 2 - EAST & WEST

A4.5

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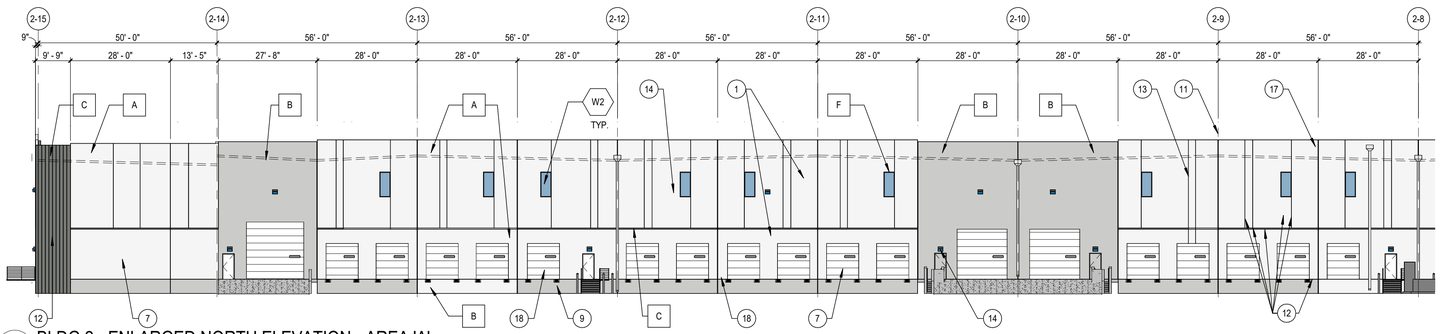
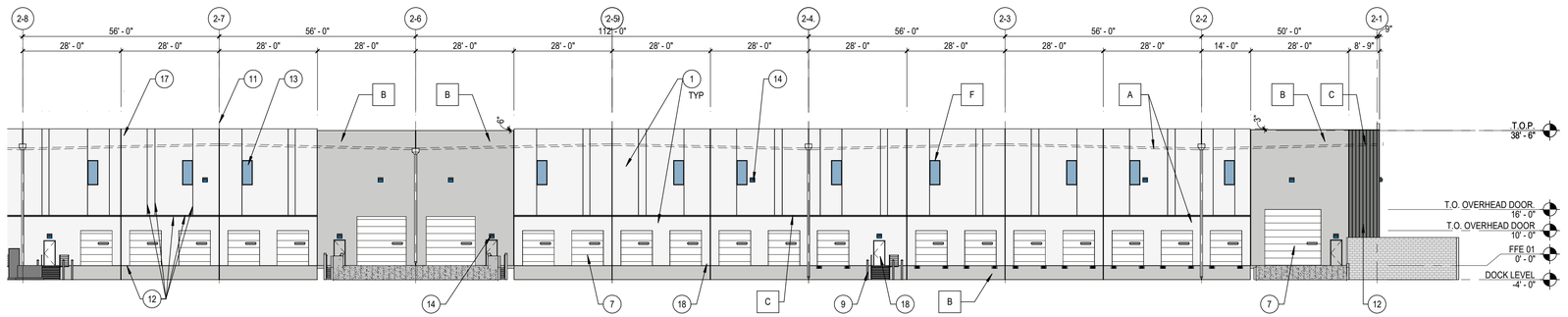
1 A4.6 BLDG 2 - NORTH ELEVATION - OVERALL
SCALE: 1" = 40'-0"



2 A4.6 BLDG 2 - ENLARGED NORTH ELEVATION - AREA 'A'
SCALE: 1" = 20'-0"



3 A4.6 BLDG 2 - ENLARGED NORTH ELEVATION - AREA 'B'
SCALE: 1" = 20'-0"

1 PAINTED CONCRETE TILT PANEL
2 1" INSULATED GLAZING
3 ALUMINUM FRAMED FIXED LOW E GLAZING
4 STOREFRONT SYSTEM WITH LOW E GLAZING (TYP)
5 MECHANICAL UNIT BEYOND
6 ROOF BEYOND
7 OVERHEAD SECTIONAL DOOR - PAINT TO MATCH ADJACENT PANEL (TYP)
8 DOCK BUMPER (TYP)
9 PIPE BOLLARD (TYP)
10 METAL STAIR AND LANDING (TYP)
11 PANEL JOINT (TYP)
12 1/2" DEEP V-GROOVE JOINT (TYP)
13 KNOCK OUT PANEL
14 EXTERIOR WALL MOUNTED LIGHT FIXTURE
15 METAL CANOPY (TYP)
16 AL/GL DOOR TO MATCH STOREFRONT SYSTEM
17 ROOF SCUPPER DRAIN SYSTEM
18 HOLLOW METAL DOOR AND FRAME - PAINT TO MATCH ADJACENT WALL COLOR
20 T.B.D.

MATERIAL SCHEDULE

PAINT:

A — MFR: SHERWIN WILLIAMS (OR EQUAL) — COLOR: TO MATCH SHERWIN WILLIAMS SW6196 'FROSTY WHITE', LRV: 72

B — MFR: SHERWIN WILLIAMS (OR EQUAL) — COLOR: TO MATCH SHERWIN WILLIAMS SW9170 'ACIER', LRV: 32

C — MFR: SHERWIN WILLIAMS (OR EQUAL) — COLOR: TO MATCH SHERWIN WILLIAMS SW9570 'IRONCLAD', LRV: 11

D — MFR: SHERWIN WILLIAMS (OR EQUAL) — COLOR: TO MATCH SHERWIN WILLIAMS SW6258 'TRICORN BLACK', LRV: 3

ALUMINUM STOREFRONT / GLAZING:

E — MFR: VITRO (OR EQUAL) — TYPE: 1" INSULATED , REFLECTIVE — COLOR: SOLARCOOL PACIFICA REFLECTIVE #2

F — MFR: ARCADIA (OR EQUAL) — TYPE: ANODIZED ALUMINUM — COLOR: #85, AB-8, BLACK

MASONRY:

G — MFR: SUPERLITE (OR EQUAL) — SIZE: 8" x 8" x 16" — TEXTURE: HONED FINISH — COLOR: 'BLACK'

DLRGROUP
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STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
01-31-2026
LICENSED ARCHITECT

KIVA: 23-1213
Q.S.: Q9-31
PRLM: 2401758
SCMJ: 2403611
LSPL: TBD
LSIS: TBD
REZONE:Z-67-88
CPGD # 2403898
QS # 9-31
PLAT # 240035

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7800 LOGISTICS W. JORDAN

GO INDUSTRIAL

4555 W 7800 S (BLDG 1) & 7888 Airport Road (BLDG 2).
WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

29-26101-00

EXTERIOR ELEVATIONS - BLDG 2 - NORTH

A4.6

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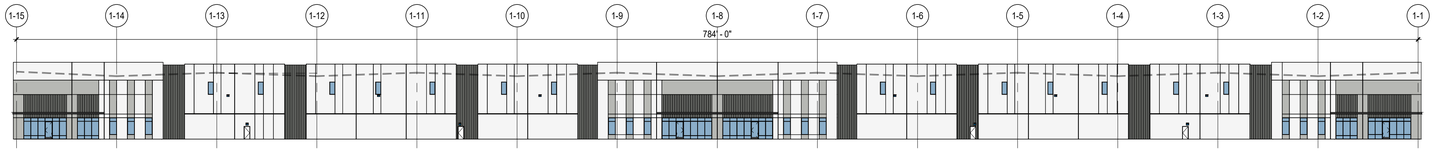
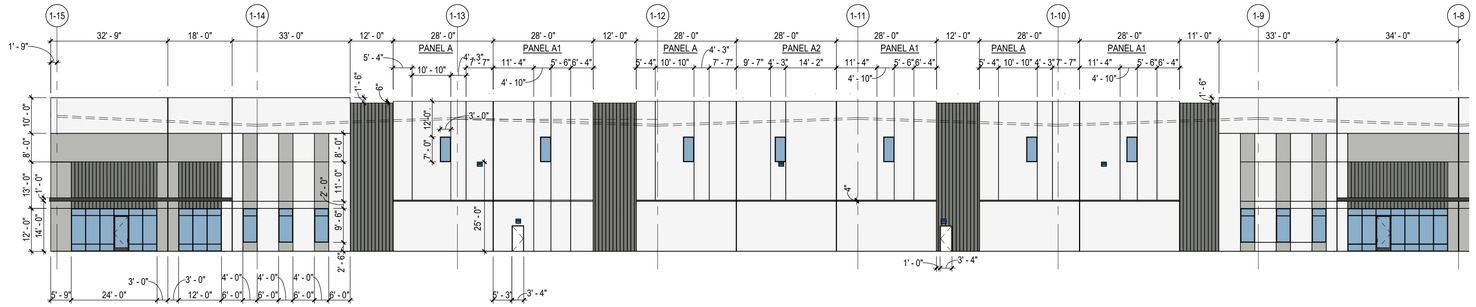
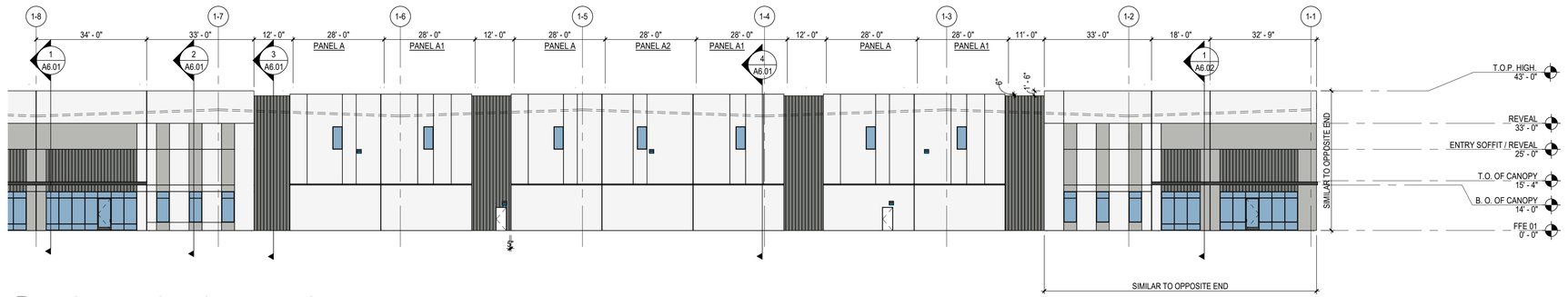


1 A4.7 BLDG 1 - NORTH ELEVATION - OVERALL Copy 1
SCALE: 1" = 40'-0"



2 A4.7 BLDG 1 - ENLARGED NORTH ELEVATION - AREA 'A' .
SCALE: 1" = 20'-0"



3 A4.7 BLDG 1 - ENLARGED NORTH ELEVATION - AREA 'B' .
SCALE: 1" = 20'-0"

MATERIAL SCHEDULE

PAINT:

A	MFR:	SHERWIN WILLIAMS (OR EQUAL)	
	COLOR:	TO MATCH SHERWIN WILLIAMS SW6196 'FROSTY WHITE', LRV: 72	
B	MFR:	SHERWIN WILLIAMS (OR EQUAL)	
	COLOR:	TO MATCH SHERWIN WILLIAMS SW9170 'ACIER', LRV: 32	
C	MFR:	SHERWIN WILLIAMS (OR EQUAL)	
	COLOR:	TO MATCH SHERWIN WILLIAMS SW9570 'IRONCLAD', LRV: 11	
D	MFR:	SHERWIN WILLIAMS (OR EQUAL)	
	COLOR:	TO MATCH SHERWIN WILLIAMS SW6258 'TRICORN BLACK', LRV: 3	

ALUMINUM STOREFRONT / GLAZING:

E	MFR:	VITRO (OR EQUAL)
	TYPE:	1" INSULATED , REFLECTIVE
	COLOR:	SOLARCOOL PACIFICA REFLECTIVE #2
F	MFR:	ARCADIA (OR EQUAL)
	TYPE:	ANODIZED ALUMINUM
	COLOR:	#85, AB-8, BLACK

MASONRY:

G	MFR:	SUPERLITE (OR EQUAL)
	SIZE:	8" x 8" x 16"
	TEXTURE:	HONED FINISH
	COLOR:	'BLACK'

DLRGROUP
© DLR Group

STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
05-01-2026
LICENSED ARCHITECT

KIVA: 23-1213
Q.S.: Q9-31
PRLM: 2401758
SCMJ: 2403611
LSPL: TBD
LSIS: TBD
REZONE:Z-67-88
CPGD # 2403898
QS # 9-31
PLAT # 240035

Notice of Extended Payment Provision
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7800 LOGISTICS W. JORDAN

GO INDUSTRIAL

4555 W 7800 S (BLDG 1) & 7888 Airport Road (BLDG 2),
WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

29-26101-00

EXTERIOR ELEVATIONS - BLDG 1 - NORTH - PANEL TYPES & DIMENSIONS

A4.7

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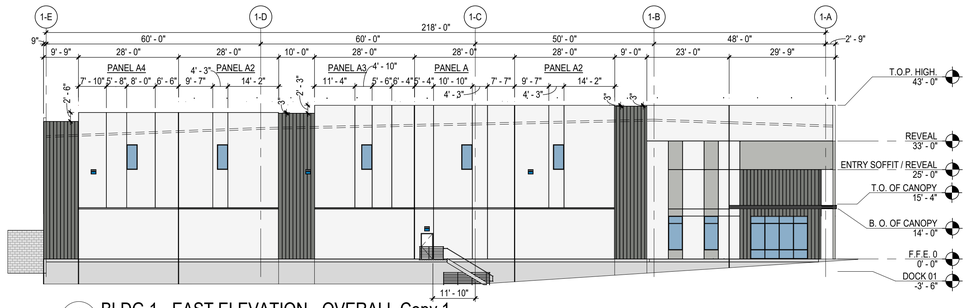
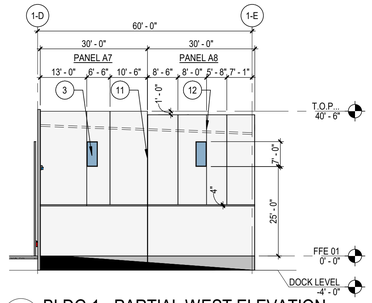


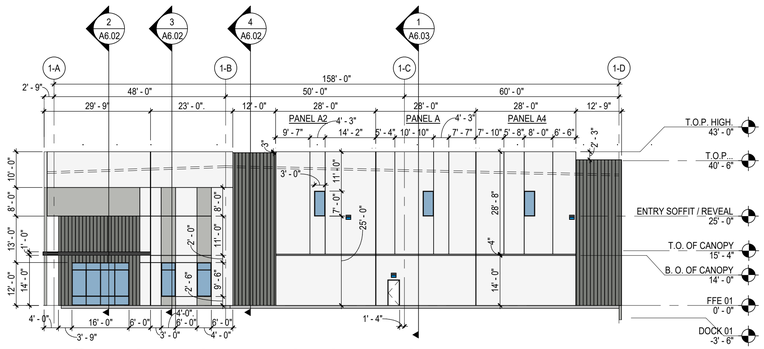
1 A4.8 BLDG 1 - EAST ELEVATION - OVERALL Copy 1

SCALE: 1" = 20'-0"



3 A4.8 BLDG.1 - PARTIAL WEST ELEVATION ...

SCALE: 1" = 20'-0"



2 A4.8 BLDG 1 - WEST ELEVATION - OVERALL Copy 1

SCALE: 1" = 20'-0"

MATERIAL SCHEDULE

PAINT:

A	MFR:	SHERWIN WILLIAMS (OR EQUAL)
	COLOR:	TO MATCH SHERWIN WILLIAMS SW6196 'FROSTY WHITE', LRV: 72
B	MFR:	SHERWIN WILLIAMS (OR EQUAL)
	COLOR:	TO MATCH SHERWIN WILLIAMS SW9170 'ACIER', LRV: 32
C	MFR:	SHERWIN WILLIAMS (OR EQUAL)
	COLOR:	TO MATCH SHERWIN WILLIAMS SW9570 'IRONCLAD', LRV: 11
D	MFR:	SHERWIN WILLIAMS (OR EQUAL)
	COLOR:	TO MATCH SHERWIN WILLIAMS SW6258 'TRICORN BLACK', LRV: 3

ALUMINUM STOREFRONT / GLAZING:

E	MFR:	VITRO (OR EQUAL)
	TYPE:	1" INSULATED , REFLECTIVE
	COLOR:	SOLARCOOL PACIFICA REFLECTIVE #2
F	MFR:	ARCADIA (OR EQUAL)
	TYPE:	ANODIZED ALUMINUM
	COLOR:	#85, AB-8, BLACK

MASONRY:

G	MFR:	SUPERLITE (OR EQUAL)
	SIZE:	8" x 8" x 16"
	TEXTURE:	HONED FINISH
	COLOR:	'BLACK'

DLR GROUP
© DLR Group

STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
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7800 LOGISTICS W. JORDAN

GO INDUSTRIAL

4555 W 7800 S (BLDG 1) & 7888 Airport Road (BLDG 2).
WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

29-26101-00

EXTERIOR ELEVATIONS - BLDG 1 - EAST & WEST PANEL ELEVATIONS

A4.8

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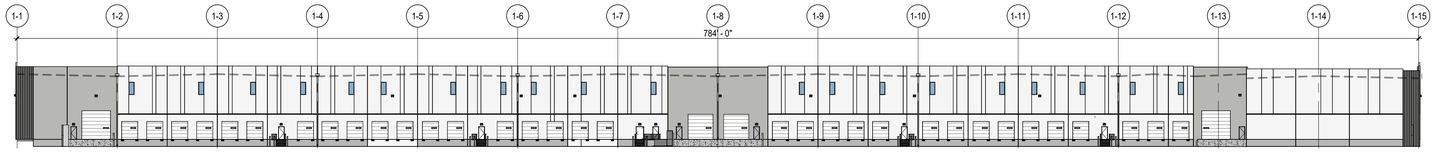
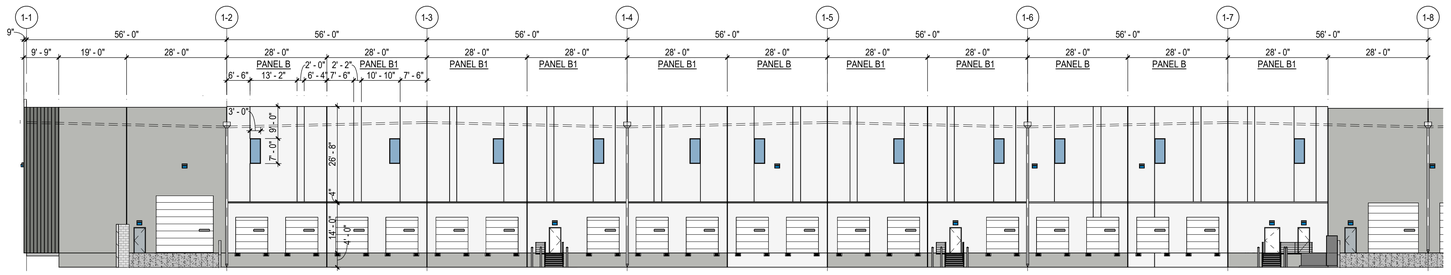
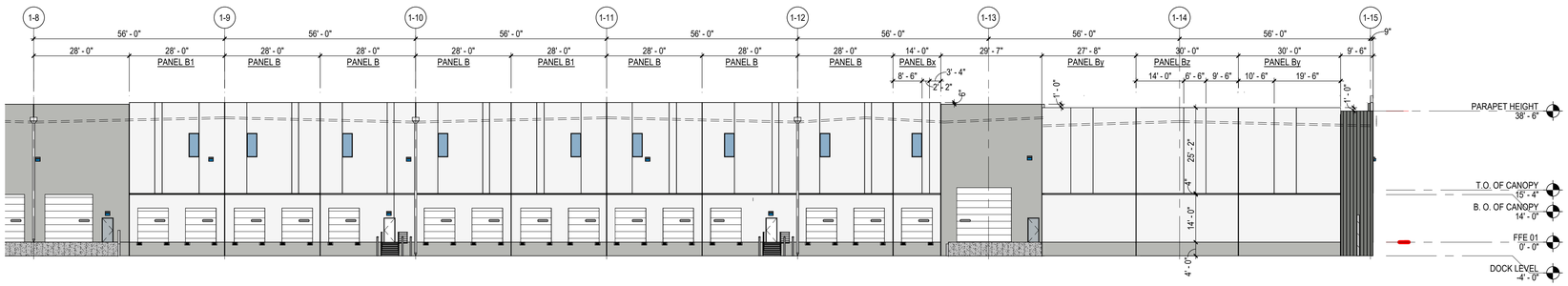


1 / A4.9 BLDG 1 - SOUTH ELEVATION - OVERALL Copy 1
SCALE: 1" = 40'-0"



2 / A4.9 BLDG 1 - ENLARGED SOUTH ELEVATION - AREA 'A' Copy 1
SCALE: 1" = 20'-0"



3 / A4.9 BLDG 1 - ENLARGED SOUTH ELEVATION - AREA 'B' Copy 1
SCALE: 1" = 20'-0"

MATERIAL SCHEDULE

PAINT:

A	MFR:	SHERWIN WILLIAMS (OR EQUAL)	
	COLOR:	TO MATCH SHERWIN WILLIAMS SW6196 'FROSTY WHITE', LRV: 72	
B	MFR:	SHERWIN WILLIAMS (OR EQUAL)	
	COLOR:	TO MATCH SHERWIN WILLIAMS SW9170 'ACIER', LRV: 32	
C	MFR:	SHERWIN WILLIAMS (OR EQUAL)	
	COLOR:	TO MATCH SHERWIN WILLIAMS SW9570 'IRONCLAD', LRV: 11	
D	MFR:	SHERWIN WILLIAMS (OR EQUAL)	
	COLOR:	TO MATCH SHERWIN WILLIAMS SW6258 'TRICORN BLACK', LRV: 3	

ALUMINUM STOREFRONT / GLAZING:

E	MFR:	VITRO (OR EQUAL)
	TYPE:	1" INSULATED , REFLECTIVE
	COLOR:	SOLARCOOL PACIFICA REFLECTIVE #2
F	MFR:	ARCADIA (OR EQUAL)
	TYPE:	ANODIZED ALUMINUM
	COLOR:	#85, AB-8, BLACK

MASONRY:

G	MFR:	SUPERLITE (OR EQUAL)
	SIZE:	8" x 8" x 16"
	TEXTURE:	HONED FINISH
	COLOR:	'BLACK'

DLRGROUP
© DLR Group

STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
02-27-2026
LICENSED ARCHITECT

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CPGD # 2403898
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PLAT # 240035

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7800 LOGISTICS W. JORDAN

GO INDUSTRIAL

4555 W 7800 S (BLDG 1) & 7888 Airport Road (BLDG 2), WEST JORDAN, UT 84088

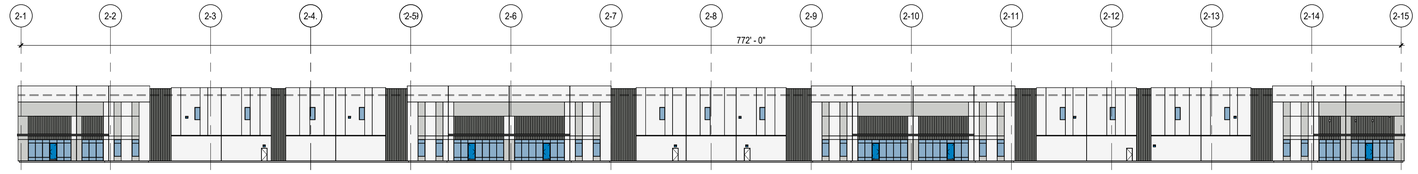
CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

29-26101-00

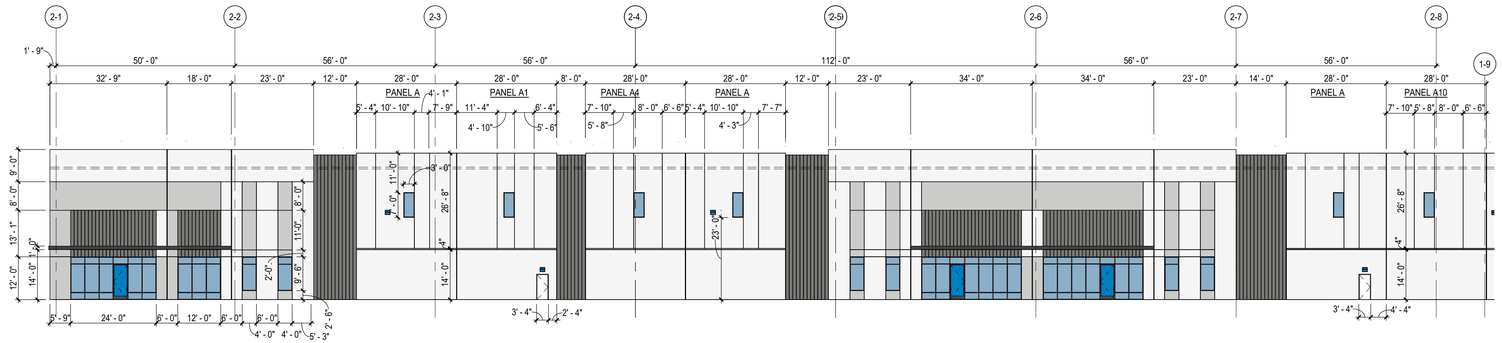
EXTERIOR ELEVATIONS - BLDG 1 - PANEL TYPES & DIMENSIONS

A4.9

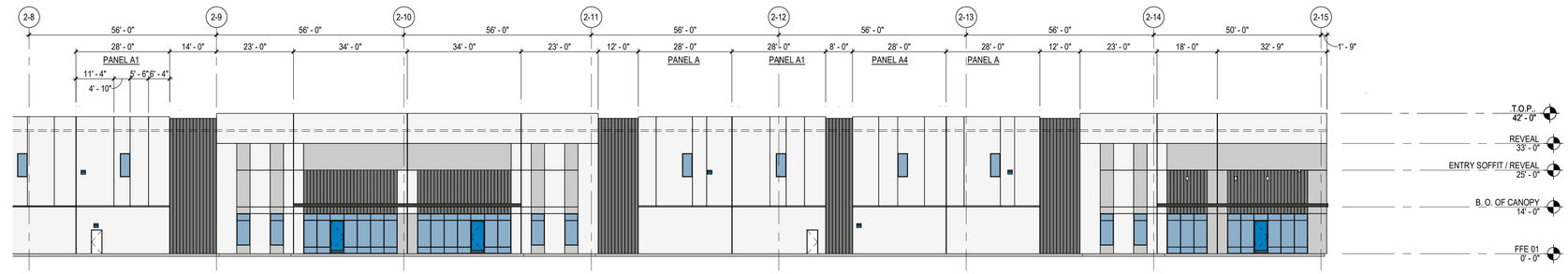
Autodesk Docs://29-26101-00 GO Industrial-7800 Logistics N/29-26101-00 GO_7800 Logistics_West Jordan_AR_2024.rvt
3/4/2026 9:35:23 AM



1 A4.10 BLDG 2 - SOUTH ELEVATION - OVERALL Copy 1
SCALE: 1" = 40'-0"



2 A4.10 BLDG 2 - ENLARGED SOUTH ELEVATION - AREA 'A' Copy 1
SCALE: 1" = 20'-0"



3 A4.10 BLDG 2 - ENLARGED SOUTH ELEVATION - AREA 'B' Copy 1
SCALE: 1" = 20'-0"

MATERIAL SCHEDULE

PAINT:

A	MFR:	SHERWIN WILLIAMS (OR EQUAL)	
	COLOR:	TO MATCH SHERWIN WILLIAMS SW6196 'FROSTY WHITE', LRV: 72	
B	MFR:	SHERWIN WILLIAMS (OR EQUAL)	
	COLOR:	TO MATCH SHERWIN WILLIAMS SW9170 'ACIER', LRV: 32	
C	MFR:	SHERWIN WILLIAMS (OR EQUAL)	
	COLOR:	TO MATCH SHERWIN WILLIAMS SW9570 'IRONCLAD', LRV: 11	
D	MFR:	SHERWIN WILLIAMS (OR EQUAL)	
	COLOR:	TO MATCH SHERWIN WILLIAMS SW6258 'TRICORN BLACK', LRV: 3	

ALUMINUM STOREFRONT / GLAZING:

E	MFR:	VITRO (OR EQUAL)
	TYPE:	1" INSULATED , REFLECTIVE
	COLOR:	SOLARCOOL PACIFICA REFLECTIVE #2
F	MFR:	ARCADIA (OR EQUAL)
	TYPE:	ANODIZED ALUMINUM
	COLOR:	#85, AB-8, BLACK

MASONRY:

G	MFR:	SUPERLITE (OR EQUAL)
	SIZE:	8" x 8" x 16"
	TEXTURE:	HONED FINISH
	COLOR:	'BLACK'

DLR GROUP
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STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
05-31-2026
LICENSED ARCHITECT

KIVA: 23-1213
Q.S.: Q9-31
PRLM: 2401758
SCMJ: 2403611
LSPL: TBD
LSIS: TBD
REZONE:Z-67-88
CPGD # 2403898
QS # 9-31
PLAT # 240035

Notice of Extended Payment Provision
This contract allows the owner to make payment within 16 days after certification and approval of billings and estimates for progress payments, within 16 days after certification and approval of billings and estimates for release of retention and within 16 days after certification and approval of billings and estimates for final payment.

7800 LOGISTICS W. JORDAN

GO INDUSTRIAL

4555 W 7800 S (BLDG.11) & 7888 Airport Road (BLDG.2).
WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

29-26101-00

EXTERIOR ELEVATIONS - BLDG 2 - SOUTH - PANEL TYPES & DIMENSIONS

A4.10

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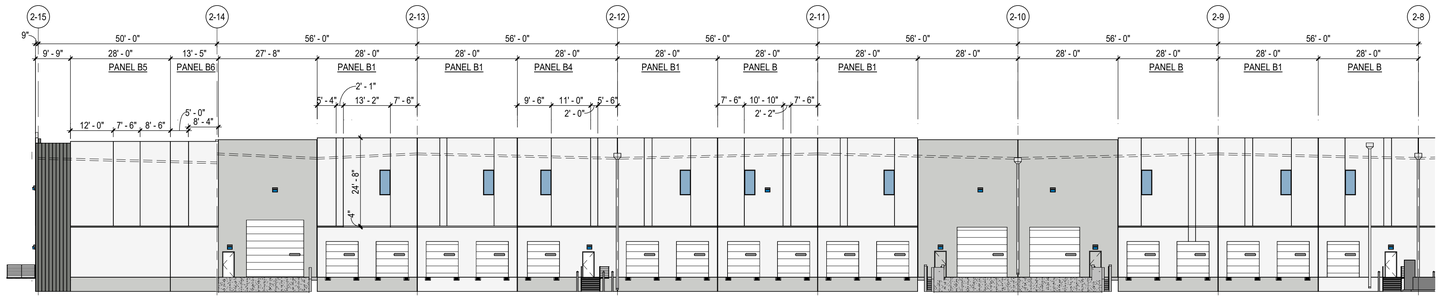
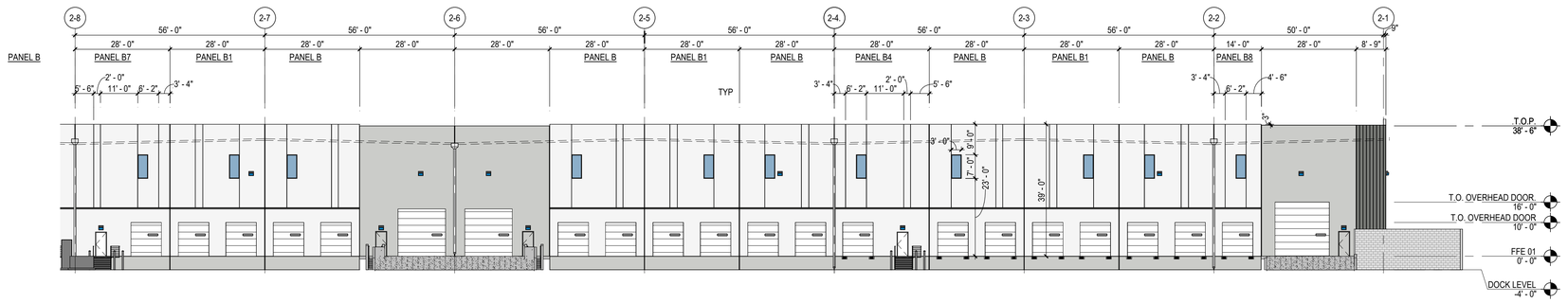
1 A4.11 BLDG 2 - NORTH ELEVATION - OVERALL.
SCALE: 1" = 40'-0"



2 A4.11 BLDG 2 - ENLARGED NORTH ELEVATION - AREA 'A'.
SCALE: 1" = 20'-0"



3 A4.11 BLDG 2 - ENLARGED NORTH ELEVATION - AREA 'B'.
SCALE: 1" = 20'-0"

MATERIAL SCHEDULE

PAINT:

A	MFR:	SHERWIN WILLIAMS (OR EQUAL)
	COLOR:	TO MATCH SHERWIN WILLIAMS SW6196 'FROSTY WHITE', LRV: 72
B	MFR:	SHERWIN WILLIAMS (OR EQUAL)
	COLOR:	TO MATCH SHERWIN WILLIAMS SW9170 'ACIER', LRV: 32
C	MFR:	SHERWIN WILLIAMS (OR EQUAL)
	COLOR:	TO MATCH SHERWIN WILLIAMS SW9570 'IRONCLAD', LRV: 11
D	MFR:	SHERWIN WILLIAMS (OR EQUAL)
	COLOR:	TO MATCH SHERWIN WILLIAMS SW6258 'TRICORN BLACK', LRV: 3

ALUMINUM STOREFRONT / GLAZING:

E	MFR:	VITRO (OR EQUAL)
	TYPE:	1" INSULATED, REFLECTIVE
	COLOR:	SOLARCOOL PACIFICA REFLECTIVE #2
F	MFR:	ARCADIA (OR EQUAL)
	TYPE:	ANODIZED ALUMINUM
	COLOR:	#85, AB-8, BLACK

MASONRY:

G	MFR:	SUPERLITE (OR EQUAL)
	SIZE:	8" x 8" x 16"
	TEXTURE:	HONED FINISH
	COLOR:	'BLACK'

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STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
01-31-2026
LICENSED ARCHITECT

KIVA: 23-1213
Q.S.: Q9-31
PRLM: 2401758
SCMJ: 2403611
LSPL: TBD
LSIS: TBD
REZONE:Z-67-88
CPGID # 2403898
QS # 9-31
PLAT # 240035

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GO INDUSTRIAL

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WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
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REVISIONS

29-26101-00

EXTERIOR ELEVATIONS - BLDG 2 - NORTH - PANEL TYPES & DIMENSIONS

A4.11

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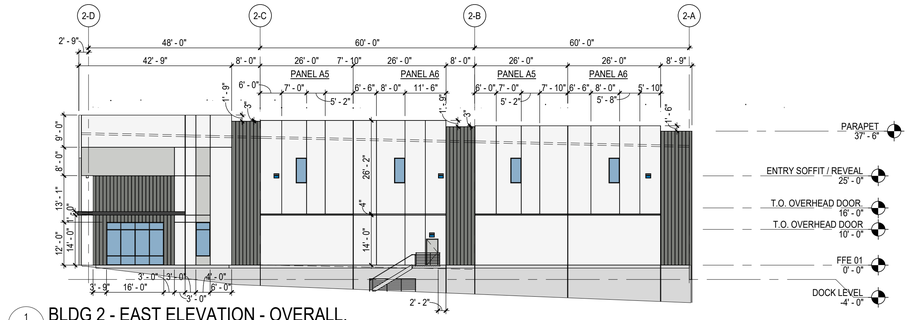
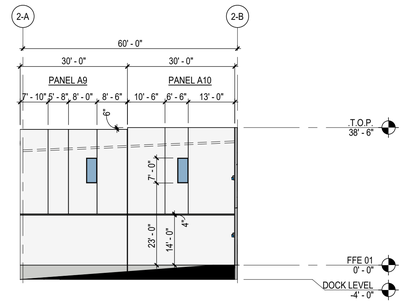


1 A4.12 BLDG 2 - EAST ELEVATION - OVERALL.

SCALE: 1" = 20'-0"



3 A4.12 BLDG.2 - PARTIAL EAST ELEVATION

SCALE: 1" = 20'-0"

2 A4.12 BLDG 2 - WEST ELEVATION - OVERALL.

SCALE: 1" = 20'-0"

TYP.

MATERIAL SCHEDULE

PAINT:

A	MFR:	SHERWIN WILLIAMS (OR EQUAL)	
	COLOR:	TO MATCH SHERWIN WILLIAMS SW6196 'FROSTY WHITE', LRV: 72	
B	MFR:	SHERWIN WILLIAMS (OR EQUAL)	
	COLOR:	TO MATCH SHERWIN WILLIAMS SW9170 'ACIER', LRV: 32	
C	MFR:	SHERWIN WILLIAMS (OR EQUAL)	
	COLOR:	TO MATCH SHERWIN WILLIAMS SW9570 'IRONCLAD', LRV: 11	
D	MFR:	SHERWIN WILLIAMS (OR EQUAL)	
	COLOR:	TO MATCH SHERWIN WILLIAMS SW6258 'TRICORN BLACK', LRV: 3	

ALUMINUM STOREFRONT / GLAZING:

E	MFR:	VITRO (OR EQUAL)
	TYPE:	1" INSULATED , REFLECTIVE
	COLOR:	SOLARCOOL PACIFICA REFLECTIVE #2
F	MFR:	ARCADIA (OR EQUAL)
	TYPE:	ANODIZED ALUMINUM
	COLOR:	#85, AB-8, BLACK

MASONRY:

G	MFR:	SUPERLITE (OR EQUAL)
	SIZE:	8" x 8" x 16"
	TEXTURE:	HONED FINISH
	COLOR:	'BLACK'

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STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
01-31-2026
LICENSED ARCHITECT

KIVA: 23-1213
Q.S.: Q9-31
PRLM: 2401758
SCMJ: 2403611
LSPL: TBD
LSIS: TBD
REZONE:Z-67-88
CPGD # 2403898
QS # 9-31
PLAT # 240035

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7800 LOGISTICS W. JORDAN

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WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

29-26101-00

EXTERIOR ELEVATIONS - BLDG 2 - EAST & WEST - PANEL TYPES & DI[illegible]

A4.12

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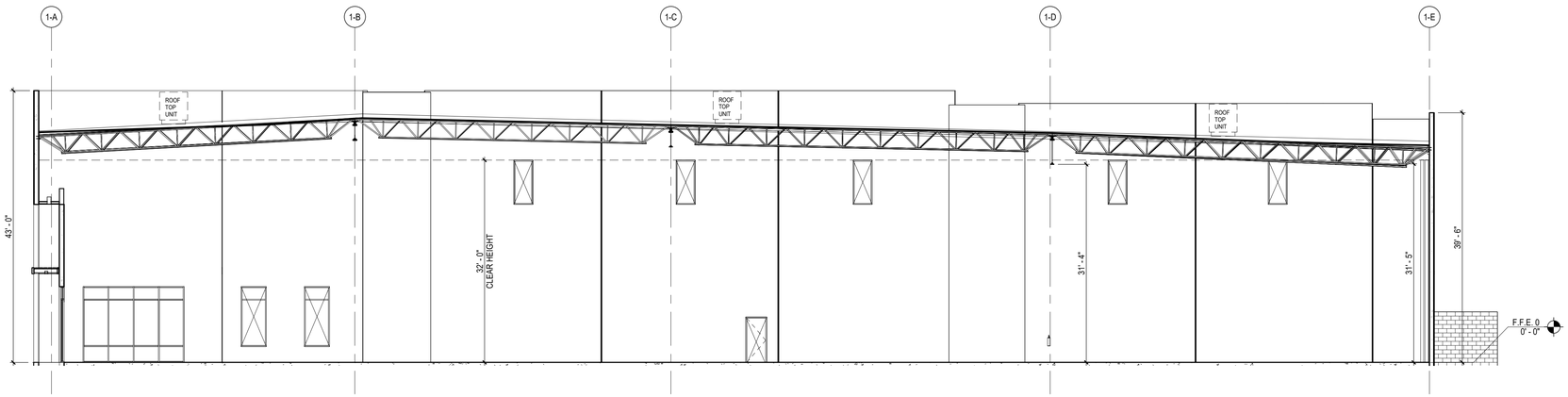
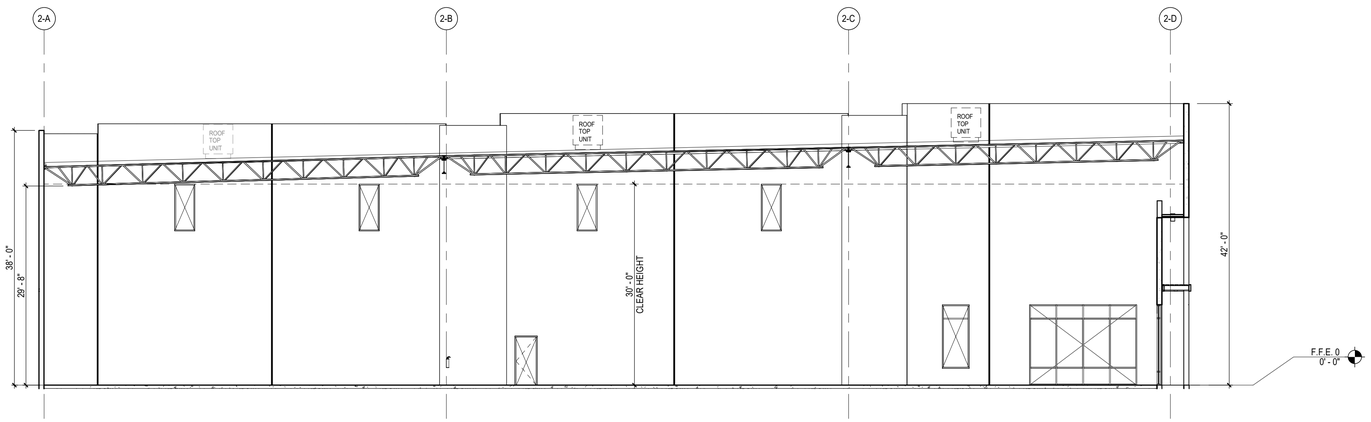


1 A5.1 BUILIDNG 1 - CROSS SECTION
SCALE: 3/32" = 1'-0"



2 A5.1 BUILDING 2 - CROSS SECTION
SCALE: 3/32" = 1'-0"

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STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
03-31-2026
LICENSED ARCHITECT

KIVA: 23-1213
Q.S.: Q9-31
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CONSTRUCTION DOCUMENTS
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BUILDING SECTIONS

A5.1

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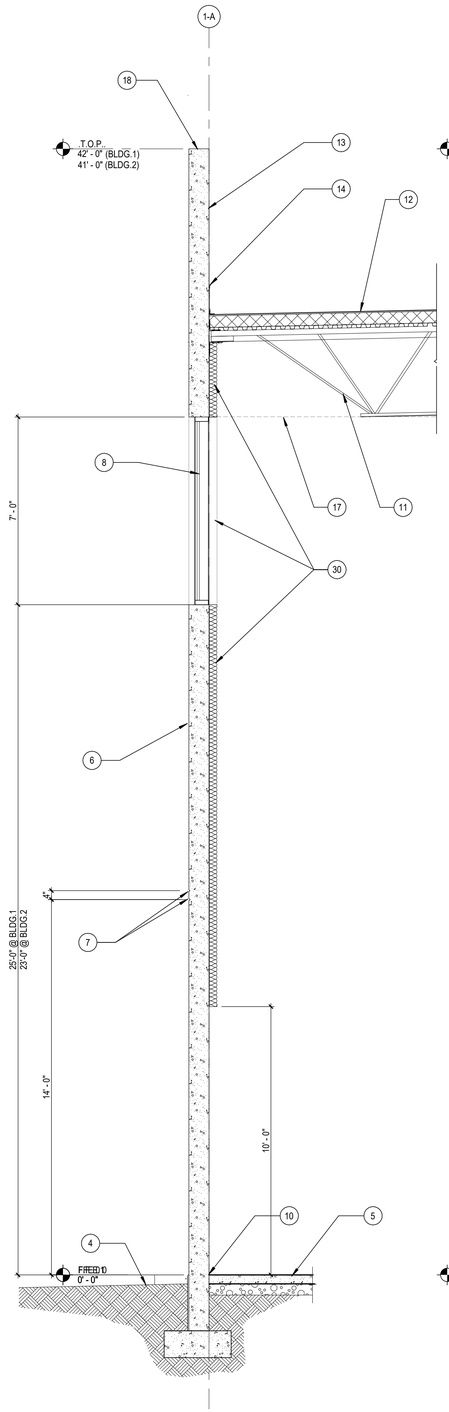
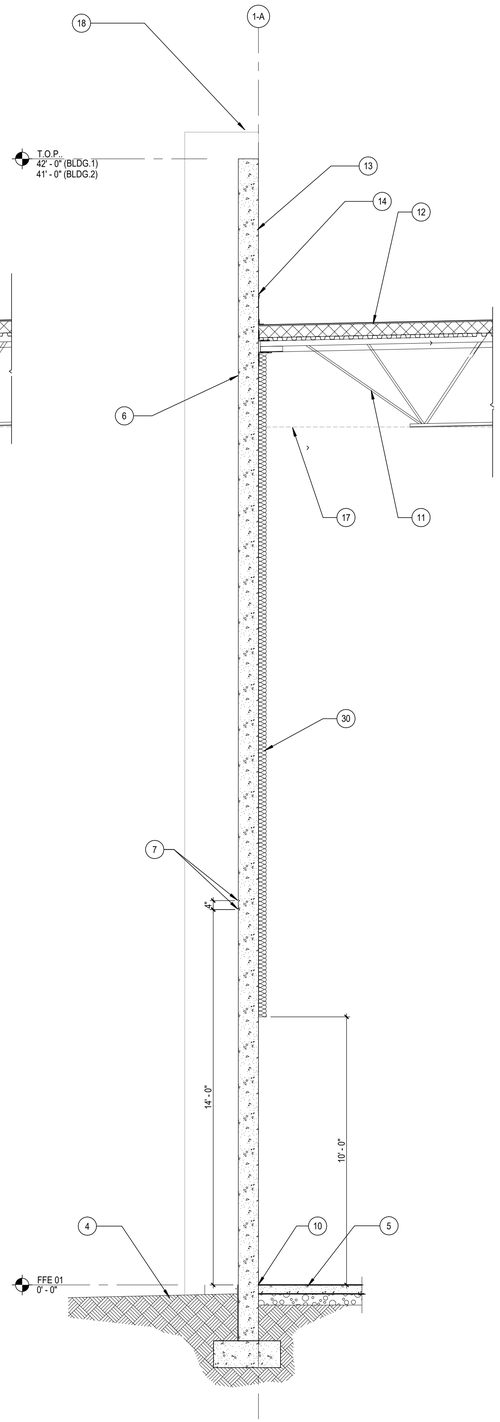
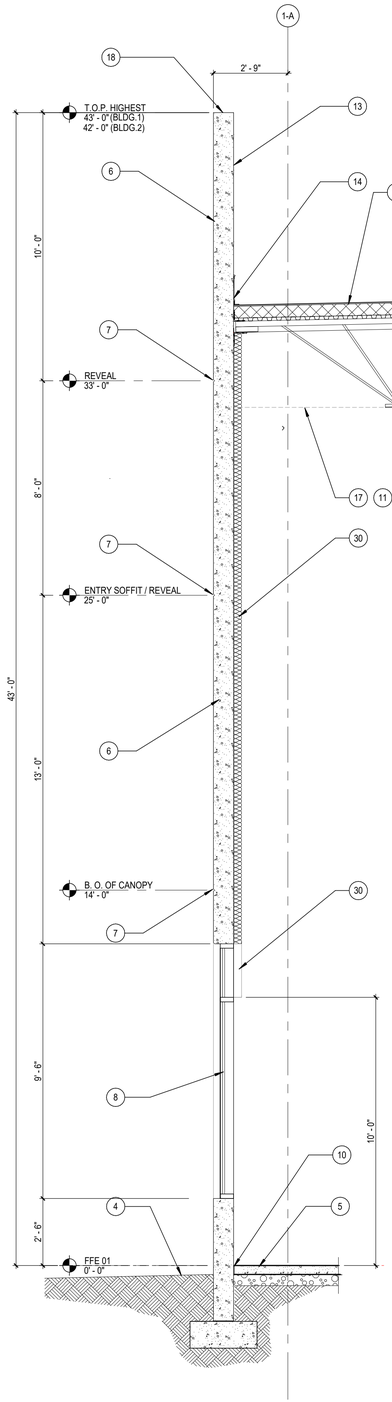


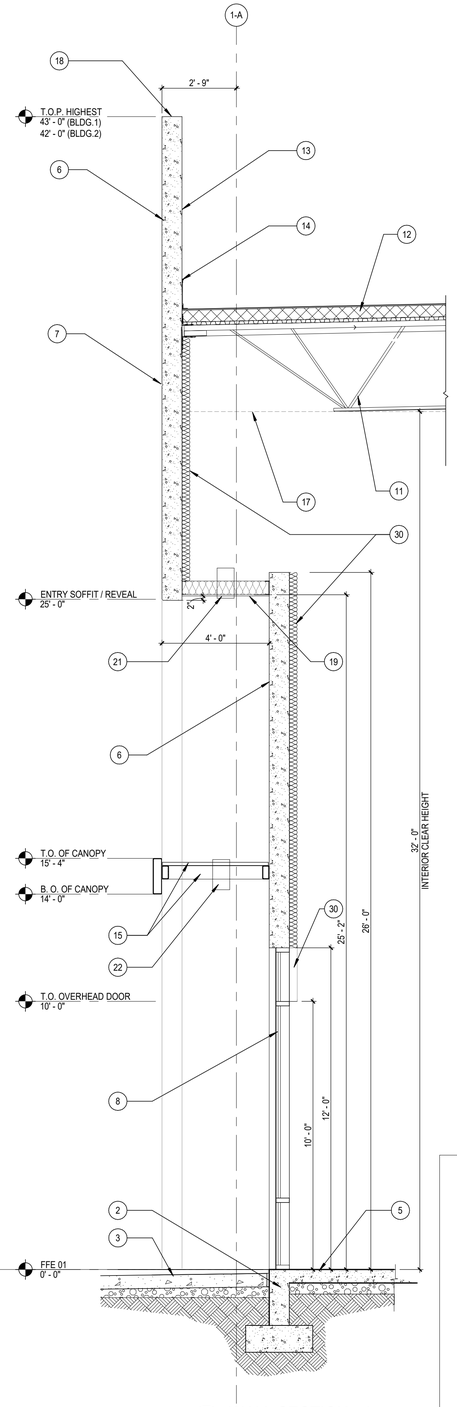
4 A6.01 WALL SECTION - 4
SCALE: 3/8" = 1'-0"



3 A6.01 WALL SECTION - 3
SCALE: 3/8" = 1'-0"



2 A6.01 WALL SECTION - 2
SCALE: 3/8" = 1'-0"



1 A6.01 WALL SECTION - 1
SCALE: 3/8" = 1'-0"

1 CONCRETE FOOTING- SEE DETAIL 4B/A9 FOR PIPE SLEEVE PENETRATIONS - SEE STRUCTURAL DRAWINGS.
2 CONCRETE TURN DOWN - SEE STRUCTURAL DRAWINGS.
3 CONCRETE SLAB OVER ABC ON GRADE - SLOPE AWAY FROM BUILDING AT 1/4" P.L.F. MIN. - SEE SITE PLAN FOR FINISH & CIVIL FOR GRADES - REFER TO STRUCTURAL DRAWINGS, SOIL REPORT & SPECIFICATIONS.
4 FINISH GRADE - SEE CIVIL DRAWINGS.
5 CONCRETE SLAB OVER VAPOR BARRIER (10 MIL MIN.) ON ABC - REFER TO STRUCTURAL DRAWINGS, SOIL REPORT & SPECIFICATIONS. SEE FLOOR PLANS FOR EXTENT OF VAPOR BARRIER.
6 PAINTED CONCRETE TILT-UP PANEL (8 1/2" THICK) - SEE BUILDING ELEVATIONS FOR MATERIAL SCHEDULE.
7 1/2" "V" GROOVE - REFER TO DETAIL 12/A9.1
8 1" GLAZING IN ANODIZED ALUMINUM SYSTEM - SEE WINDOW ELEVATION FOR GLAZING TYPES.
9 24' x 24' INSULATED ROLL-UP DOOR & TRACK WITH VISION PANEL - INSTALL PER MANUFACTURER'S INSTRUCTIONS.
10 CONTINUOUS SEALANT & BACKER ROD OVER 1/2" JOINT FILLER.
11 STRUCTURAL FRAMING AS OCCURS - REFER TO STRUCTURAL DRAWINGS.
12 SINGLE PLY 60 MIL TPO ROOFING MEMBRANE ON 1/2" POLYISO ROOF BOARD ON 5.2" POLYISOCYANURATE INSULATION (R-30, WITH MIN. 1/4" / 12" SLOPE) ON 1 1/2" METAL DECK.
13 EXTERIOR PAINT SYSTEM TOP & BACKSIDE OF PARAPET.
14 TERMINATION BAR WITH SEALANT PER MANUFACTURER.
15 PERFORATED BLACKENED (50% OR LESS PERFORATION) STEEL CANOPY ASSEMBLY - SEE DET.3D/A9.1
17 32'-0" CLEAR HEIGHT @ BLDG.1 & 30'-0" CLEAR HEIGHT @ BLDG.2
18 PROVIDE ROOF SEAL AT ALL PANEL JOINTS PER DETAILS 3B & 3C/A9.1
19 5/8" DENSGLASS GOLD EXTERIOR SHEATHING (PAINTED WHITE) OVER 3 5/8" METAL STUD FRAMING W/ R-19 BATT INSULATION.
21 RECESSED CAN LIGHT FIXTURE. COLOR TO MATCH CEILING SOFFIT - SEE ELECTRICAL.
22 LIGHT FIXTURE. COLOR TO MATCH CANOPYMETAL FRAMING.
26 PROVIDE R-10 BATT INSULATION WITH SCRIM AT 10'-0" A.F.F. TO UNDERSIDE OF ROOF DECK ON ALL INTERIOR FACE OF TILT-UP CONCRETE WALLS. EXCEPTION SHALL BE AT WALLS WHERE WALL FURRING HAS ALREADY BEEN CALLED OUT. PAINT INSIDE FACE OF EXTERIOR WALLS FROM FINISH FLOOR TO 10'-0" A.F.F.
27 DOCK BUMPER
28 CONCRETE RAMP
29 OVERHEAD DOOR FRAME
30 R-13 BATT INSULATION WITH SCRIM FROM 10'-0" A.F.F. TO BOTTOM OF ROOF DECK. PAINT WALL TO 10'-0" A.F.F.

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STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
01-31-2026
LICENSED ARCHITECT

KIVA: 23-1213
Q.S.: Q9-31
PRLM: 2401758
SCMJ: 2403611
LSPL: TBD
LSIS: TBD
REZONE:Z-67-88
CPGD # 2403898
QS # 9-31
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7800 LOGISTICS W. JORDAN

GO INDUSTRIAL

4555 W 7800 S (BLDG 1) & 7888 Airport Road (BLDG 2),
WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

29-26101-00

WALL SECTIONS

A6.01

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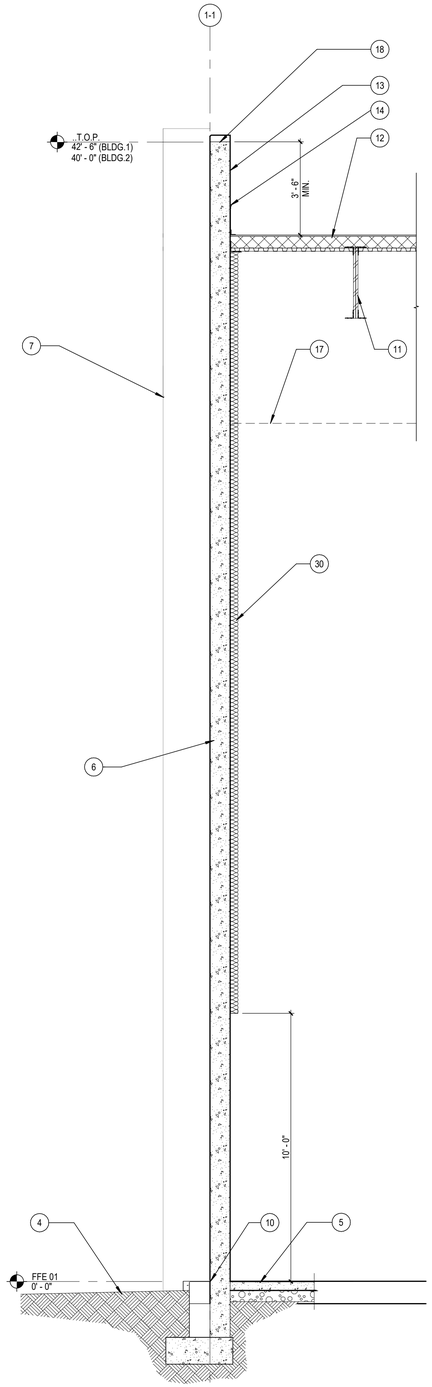
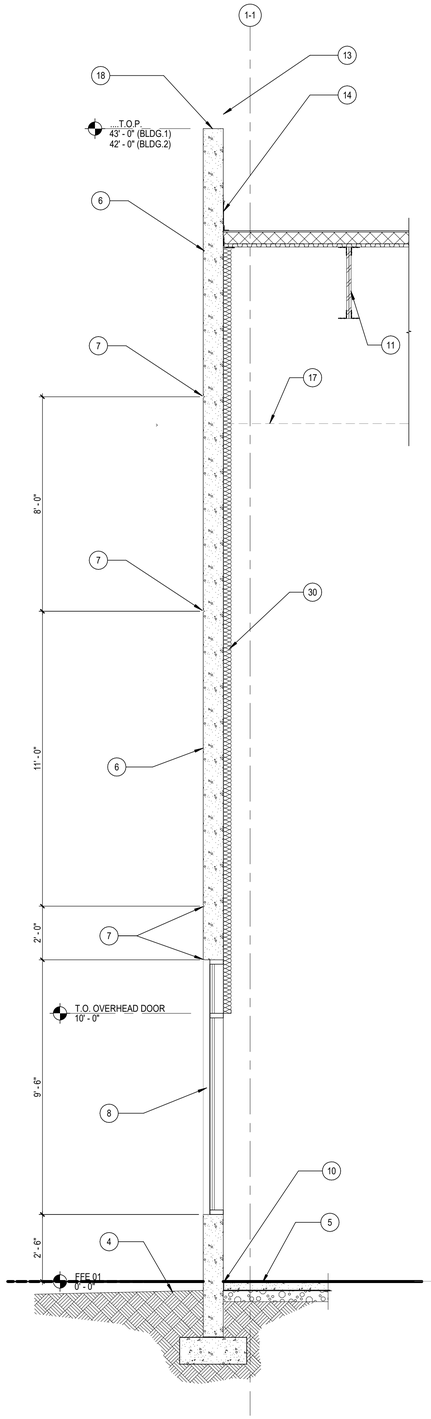
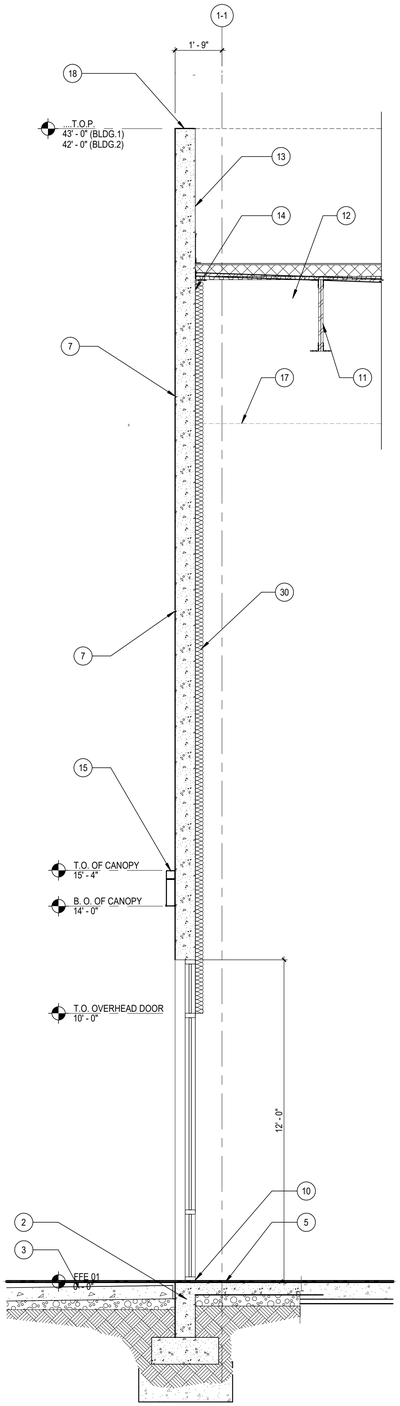


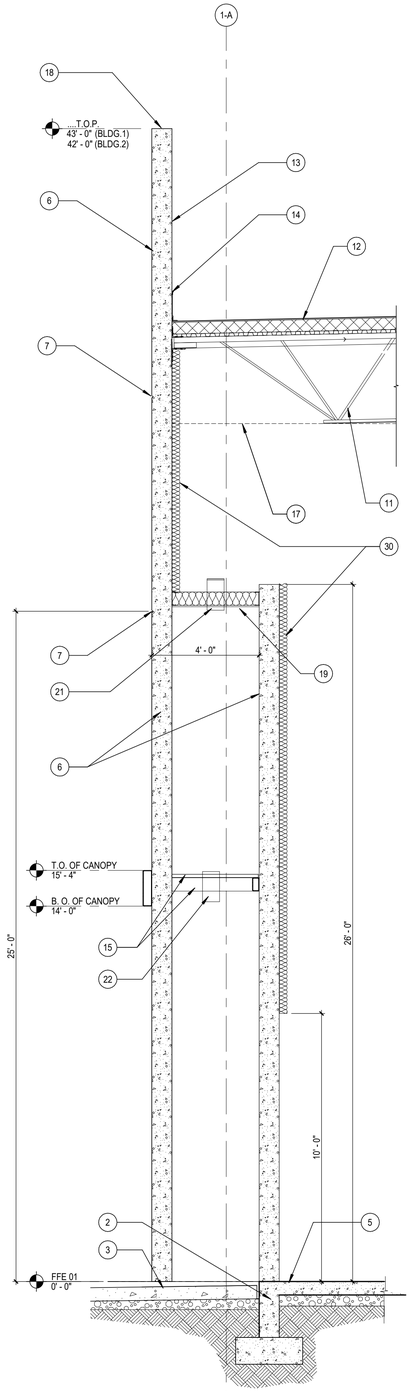
4 WALL SECTION 2D
A6.02 SCALE: 3/8" = 1'-0"



3 WALL SECTION 2C
A6.02 SCALE: 3/8" = 1'-0"



2 WALL SECTION 2B
A6.02 SCALE: 3/8" = 1'-0"



1 WALL SECTION - 1A
A6.02 SCALE: 3/8" = 1'-0"

1 CONCRETE FOOTING- SEE DETAIL 4B/A9 FOR PIPE SLEEVE PENETRATIONS - SEE STRUCTURAL DRAWINGS.
2 CONCRETE TURN DOWN - SEE STRUCTURAL DRAWINGS.
3 CONCRETE SLAB OVER ABC ON GRADE - SLOPE AWAY FROM BUILDING AT 1/4" P.L.F. MIN. - SEE SITE PLAN FOR FINISH & CIVIL FOR GRADES - REFER TO STRUCTURAL DRAWINGS, SOIL REPORT & SPECIFICATIONS.
4 FINISH GRADE - SEE CIVIL DRAWINGS.
5 CONCRETE SLAB OVER VAPOR BARRIER (10 MIL MIN.) ON ABC - REFER TO STRUCTURAL DRAWINGS, SOIL REPORT & SPECIFICATIONS. SEE FLOOR PLANS FOR EXTENT OF VAPOR BARRIER.
6 PAINTED CONCRETE TILT-UP PANEL (8 1/2" THICK) - SEE BUILDING ELEVATIONS FOR MATERIAL SCHEDULE.
7 1/2" "V" GROOVE - REFER TO DETAIL 12/A9.1
8 1" GLAZING IN ANODIZED ALUMINUM SYSTEM - SEE WINDOW ELEVATION FOR GLAZING TYPES.
9 24' x 24' INSULATED ROLL-UP DOOR & TRACK WITH VISION PANEL - INSTALL PER MANUFACTURER'S INSTRUCTIONS.
10 CONTINUOUS SEALANT & BACKER ROD OVER 1/2" JOINT FILLER.
11 STRUCTURAL FRAMING AS OCCURS - REFER TO STRUCTURAL DRAWINGS.
12 SINGLE PLY 60 MIL TPO ROOFING MEMBRANE ON 1/2" POLYISO ROOF BOARD ON 5.2" POLYISOCYANURATE INSULATION (R-30, WITH MIN. 1/4" / 12" SLOPE) ON 1 1/2" METAL DECK.
13 EXTERIOR PAINT SYSTEM TOP & BACKSIDE OF PARAPET.
14 TERMINATION BAR WITH SEALANT PER MANUFACTURER.
15 PERFORATED BLACKENED (50% OR LESS PERFORATION) STEEL CANOPY ASSEMBLY - SEE DET.3D/A9.1
17 32'-0" CLEAR HEIGHT @ BLDG.1 & 30'-0" CLEAR HEIGHT @ BLDG.2
18 PROVIDE ROOF SEAL AT ALL PANEL JOINTS PER DETAILS 3B & 3C/A9.1
19 5/8" DENSGLASS GOLD EXTERIOR SHEATHING (PAINTED WHITE) OVER 3 5/8" METAL STUD FRAMING W/ R-19 BATT INSULATION.
21 RECESSED CAN LIGHT FIXTURE. COLOR TO MATCH CEILING SOFFIT - SEE ELECTRICAL.
22 LIGHT FIXTURE. COLOR TO MATCH CANOPYMETAL FRAMING.
26 PROVIDE R-10 BATT INSULATION WITH SCRIM AT 10'-0" A.F.F. TO UNDERSIDE OF ROOF DECK ON ALL INTERIOR FACE OF TILT-UP CONCRETE WALLS. EXCEPTION SHALL BE AT WALLS WHERE WALL FURRING HAS ALREADY BEEN CALLED OUT. PAINT INSIDE FACE OF EXTERIOR WALLS FROM FINISH FLOOR TO 10'-0" A.F.F.
27 DOCK BUMPER
28 CONCRETE RAMP
29 OVERHEAD DOOR FRAME
30 R-13 BATT INSULATION WITH SCRIM FROM 10'-0" A.F.F. TO BOTTOM OF ROOF DECK. PAINT WALL TO 10'-0" A.F.F.

DLR GROUP
© DLR Group

STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
02-27-2026
LICENSED ARCHITECT

KIVA: 23-1213
Q.S.: Q9-31
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LSPL: TBD
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CPGD # 2403898
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7800 LOGISTICS W. JORDAN

GO INDUSTRIAL

4555 W. 7800 S. (BLDG 1) & 7888 Airport Road (BLDG 2),
WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

29-26101-00

WALL SECTIONS

A6.02

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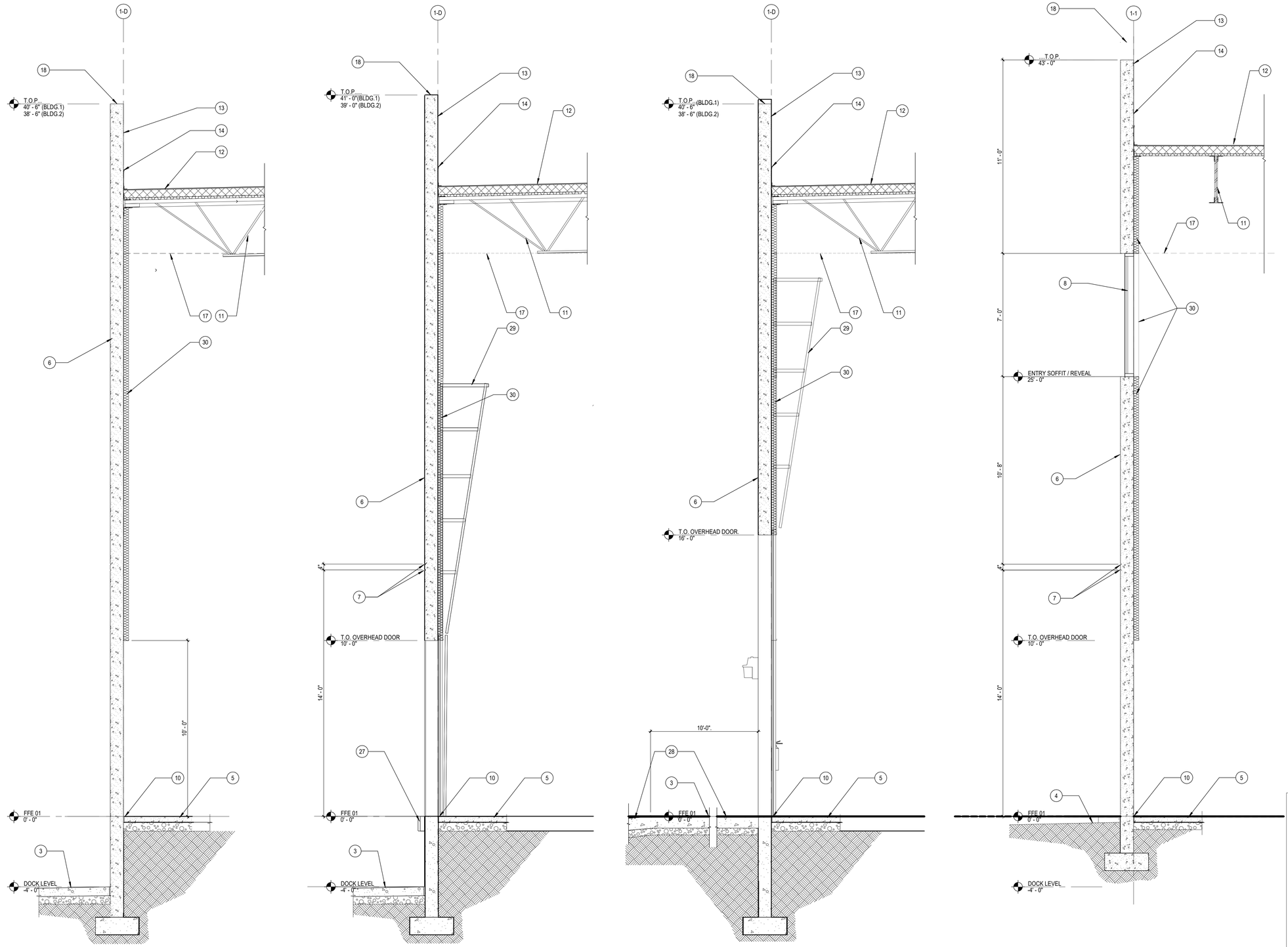

4 WALL SECTION 4B
A6.03 SCALE: 3/8" = 1'-0"

3 WALL SECTION 3B
A6.03 SCALE: 3/8" = 1'-0"

2 WALL SECTION 2B.
A6.03 SCALE: 3/8" = 1'-0"

1 WALL SECTION 1B
A6.03 SCALE: 3/8" = 1'-0"

1 CONCRETE FOOTING- SEE DETAIL 4B/A9 FOR PIPE SLEEVE PENETRATIONS - SEE STRUCTURAL DRAWINGS.
2 CONCRETE TURN DOWN - SEE STRUCTURAL DRAWINGS.
3 CONCRETE SLAB OVER ABC ON GRADE - SLOPE AWAY FROM BUILDING AT 1/4" P.L.F. MIN. - SEE SITE PLAN FOR FINISH & CIVIL FOR GRADES - REFER TO STRUCTURAL DRAWINGS, SOIL REPORT & SPECIFICATIONS.
4 FINISH GRADE - SEE CIVIL DRAWINGS.
5 CONCRETE SLAB OVER VAPOR BARRIER (10 MIL MIN.) ON ABC - REFER TO STRUCTURAL DRAWINGS, SOIL REPORT & SPECIFICATIONS. SEE FLOOR PLANS FOR EXTENT OF VAPOR BARRIER.
6 PAINTED CONCRETE TILT-UP PANEL (8 1/2" THICK) - SEE BUILDING ELEVATIONS FOR MATERIAL SCHEDULE.
7 1/2" 'V' GROOVE - REFER TO DETAIL 12/A9.1
8 1" GLAZING IN ANODIZED ALUMINUM SYSTEM - SEE WINDOW ELEVATION FOR GLAZING TYPES.
9 24' x 24' INSULATED ROLL-UP DOOR & TRACK WITH VISION PANEL - INSTALL PER MANUFACTURER'S INSTRUCTIONS.
10 CONTINUOUS SEALANT & BACKER ROD OVER 1/2" JOINT FILLER.
11 STRUCTURAL FRAMING AS OCCURS - REFER TO STRUCTURAL DRAWINGS.
12 SINGLE PLY 60 MIL TPO ROOFING MEMBRANE ON 1/2" POLYISO ROOF BOARD ON 5.2" POLYISOCYANURATE INSULATION (R-30, WITH MIN. 1/4" / 12" SLOPE) ON 1 1/2" METAL DECK
13 EXTERIOR PAINT SYSTEM TOP & BACKSIDE OF PARAPET.
14 TERMINATION BAR WITH SEALANT PER MANUFACTURER.
15 PERFORATED BLACKENED (50% OR LESS PERFORATION) STEEL CANOPY ASSEMBLY - SEE DET.3D/A9.1
17 32'-0" CLEAR HEIGHT @ BLDG.1 & 30'-0" CLEAR HEIGHT @ BLDG.2
18 PROVIDE ROOF SEAL AT ALL PANEL JOINTS PER DETAILS 3B & 3C/A9.1
19 5/8" DENSGLASS GOLD EXTERIOR SHEATHING (PAINTED WHITE) OVER 3 5/8" METAL STUD FRAMING W/ R-19 BATT INSULATION.
21 RECESSED CAN LIGHT FIXTURE. COLOR TO MATCH CEILING SOFFIT - SEE ELECTRICAL.
22 LIGHT FIXTURE. COLOR TO MATCH CANOPYMETAL FRAMING.
26 PROVIDE R-10 BATT INSULATION WITH SCRIM AT 10'-0" A.F.F. TO UNDERSIDE OF ROOF DECK ON ALL INTERIOR FACE OF TILT-UP CONCRETE WALLS. EXCEPTION SHALL BE AT WALLS WHERE WALL FURRING HAS ALREADY BEEN CALLED OUT. PAINT INSIDE FACE OF EXTERIOR WALLS FROM FINISH FLOOR TO 10'-0" A.F.F.
27 DOCK BUMPER
28 CONCRETE RAMP
29 OVERHEAD DOOR FRAME
30 R-13 BATT INSULATION WITH SCRIM FROM 10'-0" A.F.F. TO BOTTOM OF ROOF DECK. PAINT WALL TO 10'-0" A.F.F.

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STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
01-31-2026
LICENSED ARCHITECT

KIVA: 23-1213
Q.S.: Q9-31
PRLM: 2401758
SCMJ: 2403611
LSPL: TBD
LSIS: TBD
REZONE:Z-67-88
CPGD # 2403898
QS # 9-31
PLAT # 240035

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7800 LOGISTICS W. JORDAN

GO INDUSTRIAL

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WALL SECTIONS

A6.03

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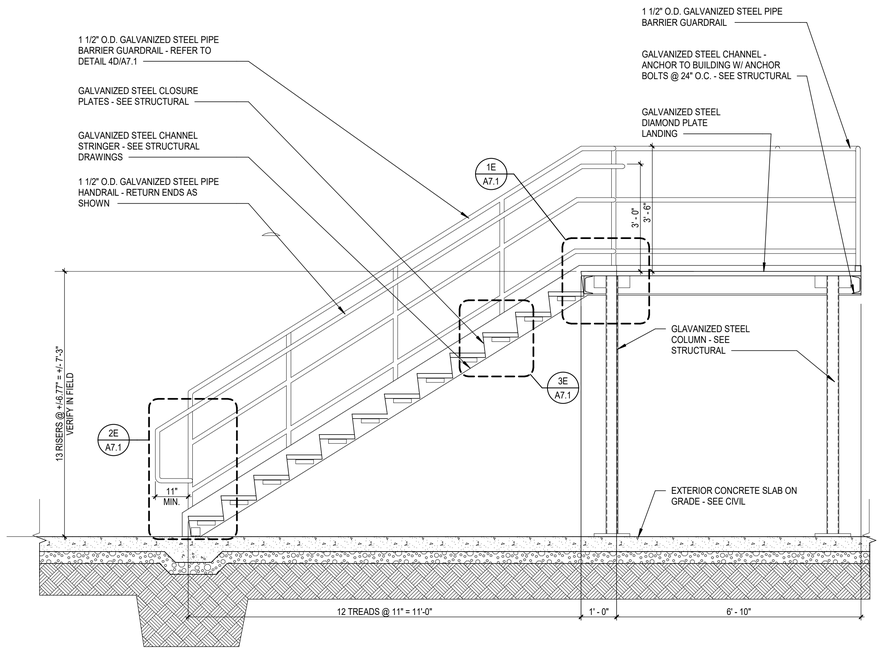
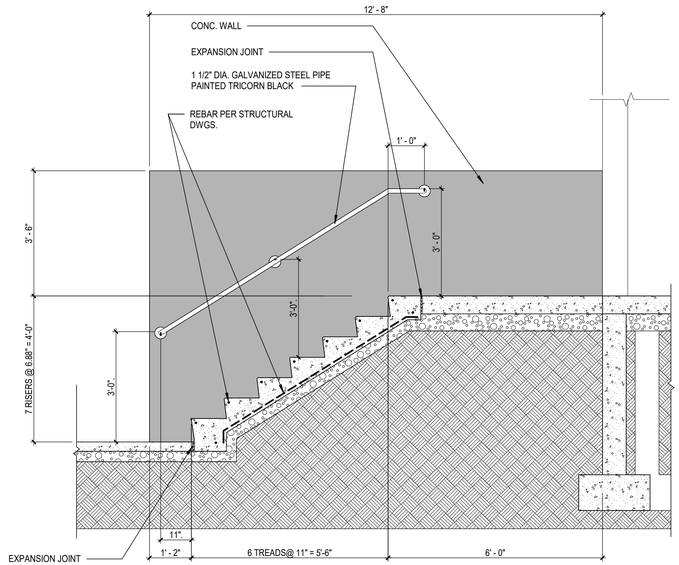
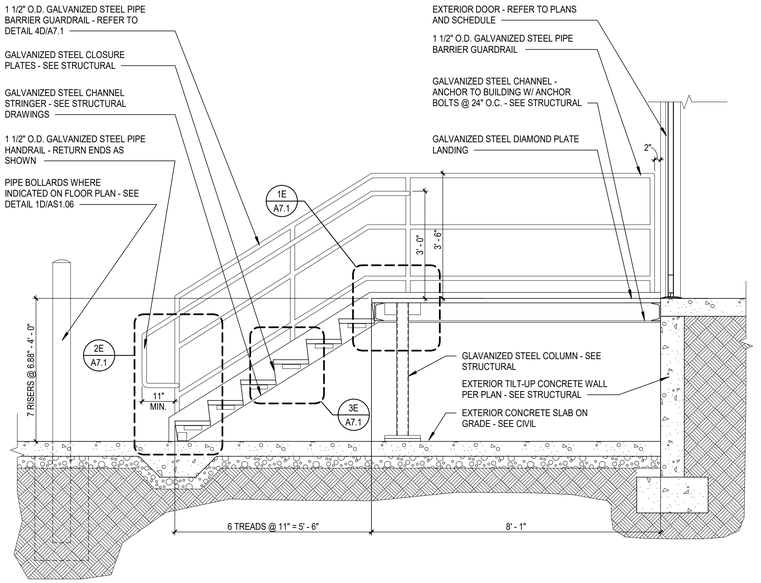


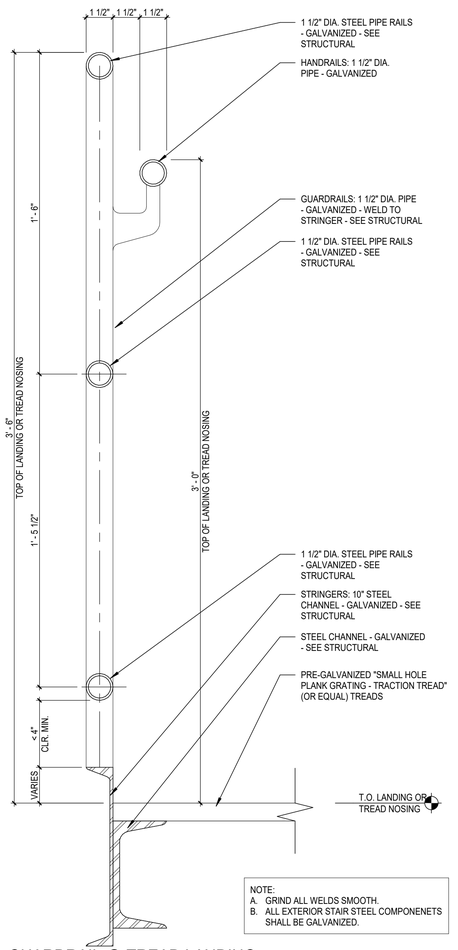
2A A7.1 WEST ELEVATION STAIR SECTION (BLDG.1 & BLDG.2 SIM.)
SCALE: 1/2" = 1'-0"



3A A7.1 CONC. STAIR SECTION (AT RAMP)
SCALE: 1/2" = 1'-0"

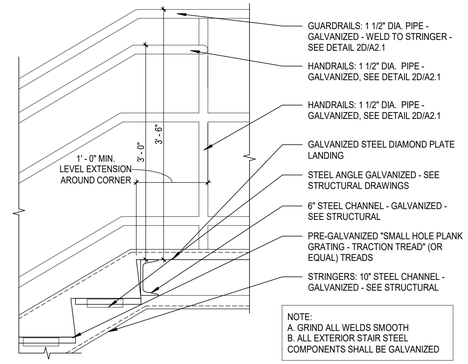


2C A7.1 STAIR SECTION (TYPICAL)
SCALE: 1/2" = 1'-0"



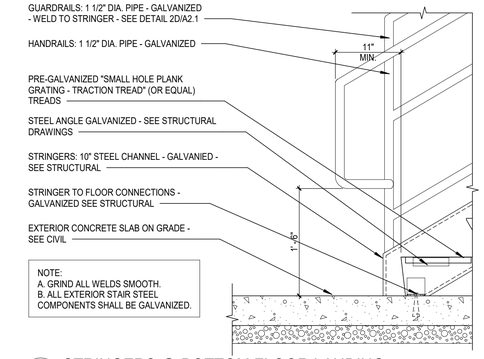
NOTE:
A. GRIND ALL WELDS SMOOTH.
B. ALL EXTERIOR STAIR STEEL COMPONENETS SHALL BE GALVANIZED.

4D A7.1 GUARDRAIL @ TREAD LANDING
SCALE: 3" = 1'-0"



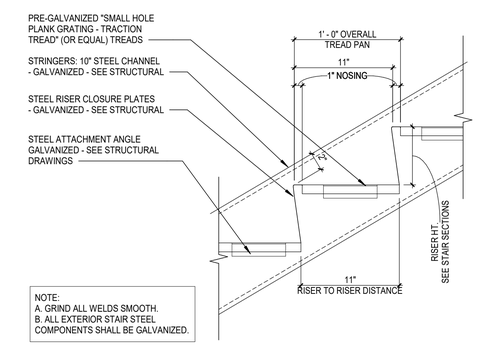
NOTE:
A. GRIND ALL WELDS SMOOTH
B. ALL EXTERIOR STAIR STEEL COMPONENTS SHALL BE GALVANIZED

1E A7.1 STRINGERS @ TOP FLOOR LANDING
SCALE: 1" = 1'-0"



NOTE:
A. GRIND ALL WELDS SMOOTH.
B. ALL EXTERIOR STAIR STEEL COMPONENTS SHALL BE GALVANIZED.

2E A7.1 STRINGERS @ BOTTOM FLOOR LANDING
SCALE: 1" = 1'-0"



NOTE:
A. GRIND ALL WELDS SMOOTH.
B. ALL EXTERIOR STAIR STEEL COMPONENTS SHALL BE GALVANIZED.

3E A7.1 TYPICAL STAIR TREAD
SCALE: 1 1/2" = 1'-0"

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STAIR VIEWS

A7.1

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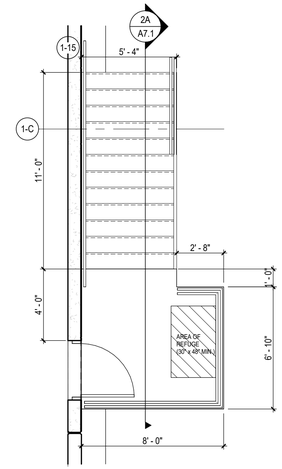
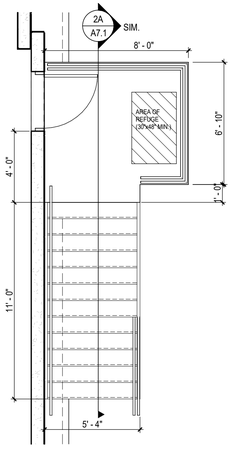
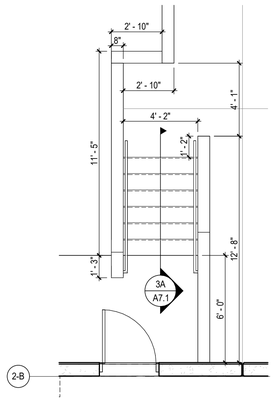


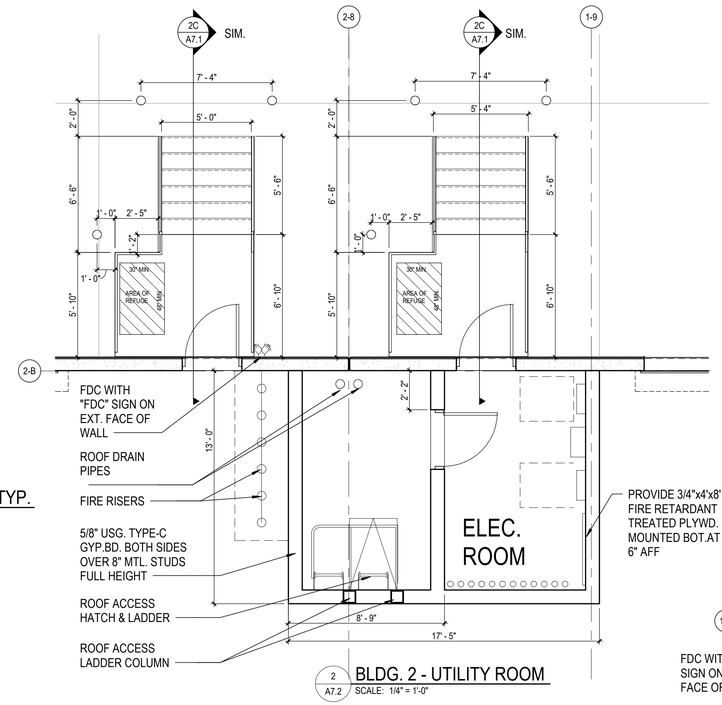
5 A7.2 BLDG. 1 - WEST STAIR PLAN
SCALE: 1/4" = 1'-0"



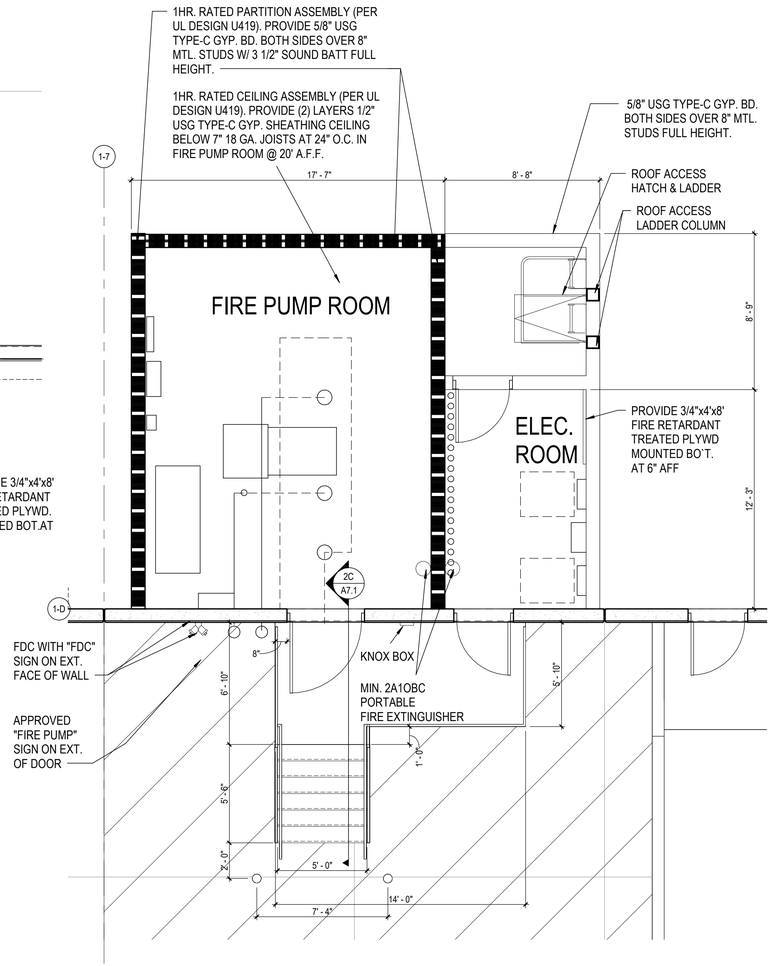
4 A7.2 BLDG.2 - WEST STAIR PLAN
SCALE: 1/4" = 1'-0"



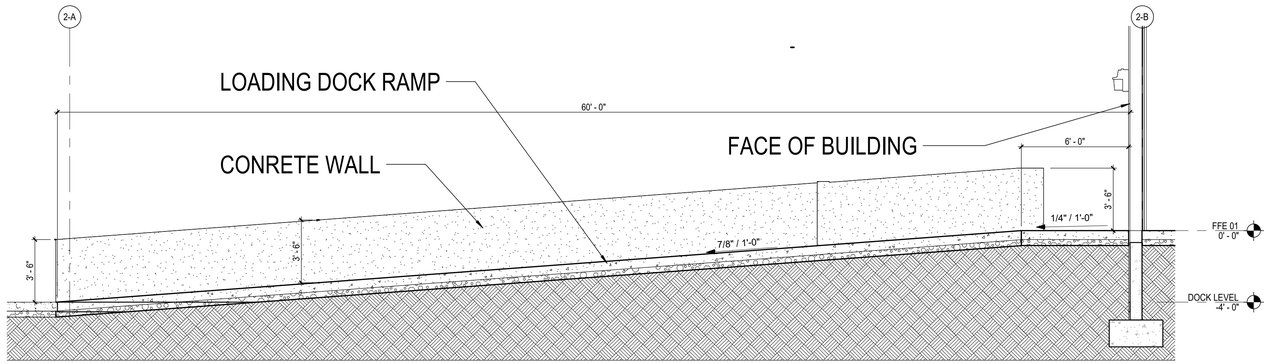
3 A7.2 BLDG. 2 - STAIR AT RAMP TYP.
SCALE: 1/4" = 1'-0"



2 A7.2 BLDG. 2 - UTILITY ROOM
SCALE: 1/4" = 1'-0"



1 A7.2 ar1all - Building 1 - Enlarged Floor Plan A - Callout 1
SCALE: 1/4" = 1'-0"



6 A7.2 RAMP SECTION TYP.
SCALE: 1/4" = 1'-0"

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GO INDUSTRIAL
4555 W 7800 S (BLDG 1) & 7888 Airport Road (BLDG 2), WEST JORDAN, UT 84088

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ENLARGED FIRE PUMP ROOM

A7.2

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DOOR AND FRAME SCHEDULE

NUMBER	PANEL NO. OF PANELS	PANEL WIDTH	PANEL HEIGHT	PANEL THICKNESS	PANEL MATERIAL	PANEL GLASS	FRAME TYPE	FRAME MATERIAL	FRAME TYPE	FIRE RATING	HARDWARE SET	DETAILS HEAD	DETAILS JAMB LEFT	DETAILS JAMB RIGHT	DETAILS SILL	COMMENTS
D1	1	3' - 0"	7' - 0"	1 3/4"	HM		F	HM	1		HW - 02, 03, 05	1B/A9.3	2B/A9.3	2B/A9.3	3B/A9.3	
D2	1	4' - 0"	10' -0"	1 3/4"	ALUM/ GLASS		FG	ALUM			HW - 01				3A/A9.3	
D3	1	4' - 0"	7' - 0"	1 3/4"	HM		F	HM	1	45 MINS.	HW - 04	1B/A9.3	2B/A9.3	2B/A9.3	3B/A9.3	
OH1		9' - 0"	10' - 0"		STL		L	STL			HW - 06					
OH2		16' - 0"	16' - 0"		STL		L	STL			HW - 06					
OH3		14' - 0"	14' - 0"		STL		L	STL			HW - 06					

SCHEDULES:

HARDWARE GROUP NO. AL-01

FOR DOOR ALL 'D2' TYPES

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA PIVOT / HINGE	STANDARD 3/4" OFFSET/INTERMEDIATE	DB	ARC
1	EA PANIC DEVICE	8L3CP	DB	AHT
1	EA PANIC DEVICE	8R3CP	DB	AHT
1	EA PERM CORE	20-062	626	SCH
2	EA PUSH/PULL	RADIUS PUSH/PULL SET	DB	ARC
2	EA CONCEALED CLOSER	311	NA	IDC
2	EA OH STOP ONLY	90S	630	GLY
2	EA SWEEP	315DN	D	PEM
1	EA THRESHOLD	171	D	PEM
1	EA SEAL	BY ALUM. FRAME SUPPLIER	A	ALF

HARDWARE GROUP NO. HW-02

FOR ALL DOOR 'D1' AT ELECTRICAL ROOMS ONLY

PROVIDE EACH DOOR WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA EXIT DEVICE	LD-98NL	626	VON
1	EA RIM	20-057 ICX	626	SCH
1	EA PERM CORE	23-030 EVEREST	626	SCH
1	EA SURF. CLOSER/STOP	P1461-CUSH FC	689	LCN
1	EA RAIN DRIP	346C	628	PEM
1	EA WEATHERSTRIP	S88C 17	BL	PEM
1	EA THRESHOLD	171A 36 MS&ES	628	PEM
1	EA SWEEP	315CN 36	628	PEM

HARDWARE GROUP NO. HW-03

FOR ALL DOOR 'D1' (EXCEPT NOTED OTHERWISE) TYPES

PROVIDE EACH DOOR WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA EXIT DEVICE	LD-98NL	626	VON
1	EA RIM	20-057 ICX	626	SCH
1	EA PERM CORE	23-030 EVEREST	626	SCH
1	EA SURF. CLOSER/HO STOP	P1461 HCUSH FC	689	LCN
1	EA RAIN DRIP	346C	628	PEM
1	EA WEATHERSTRIP	S88C 17	BL	PEM
1	EA THRESHOLD	171A 36 MS&ES	628	PEM
1	EA SWEEP	315CN 36	628	PEM

HARDWARE GROUP NO. HW-04

FOR ALL DOOR 'D2' TYPES

PROVIDE EACH DOOR WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGES	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA STOREROOM LOCK	ND80RD SPA	626	SCH
1	EA PERM CORE	23-030 EVEREST	626	SCH
1	EA LOCK GUARD	LG-7	630	IVE
1	EA SURFACE CLOSER/STOP	P1461-CUSH FC	689	LCN
1	EA RAIN DRIP	346C	628	PEM
1	EA WEATHERSTRIP	S88C 17	BL	PEM
1	EA THRESHOLD	171A 36 MS&ES	628	PEM
1	EA SWEEP	315CN 36	628	PEM

PROVIDE 5 X 4.5 HINGES AT DOORS 3'- 6" AND WIDER.

HARDWARE GROUP NO. HW-05

FOR ALL DOOR 'D1' TO ROOF HATCH & LADDER ROOM

PROVIDE EACH DOOR WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGES	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA STORAGE ROOM LOCK	ND80RD SPA	626	SCH
1	EA PERM CORE	23-030 EVEREST	626	SCH
1	EA WALL STOP	WS401 CVX	626	IVE
1	EA SURFACE CLOSER/STOP	P1461-REG W/ PA FC	689	LCN
1	EA SILENCERS	SR64	GRY	IVE

OVERHEAD DOCK DOORS

HARDWARE GROUP NO. HW-06:

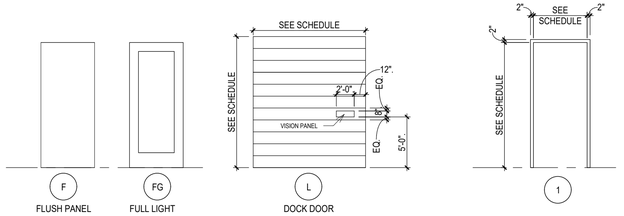
FOR ALL OH1, OH2 AND OH3 DOCK DOOR TYPES

PROVIDE EACH RU DOOR(S) WITH THE FOLLOWING:

QTY DESCRIPTION

ALL HARDWARE BY DOOR MANUFACTURER.

Z-TRACK GUARD AT ALL OVERHEAD DOOR TRACKS.



DOOR PANEL TYPES

FRAME TYPES

DOOR AND FRAME SCHEDULE GENERAL NOTES

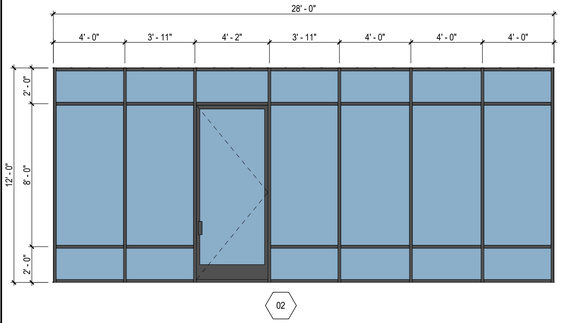
A. ALL EXTERIOR HOLLOW METAL FRAMES SHALL BE FILLED WITH INSULATION.
B. ALL EXTERIOR FRAMES SHALL BE INSTALLED WITH 1/4" SHIM AND SEALANT AROUND PERIMETER OF FRAME.
C. GLASS TYPES FOR DOORS ARE INDICATED IN THE DOOR GLAZING COLUMN OF THE DOOR AND FRAME SCHEDULE. GLASS TYPES FOR FRAMES ARE INDICATED ON THE FRAME ELEVATIONS.
D. PROVIDE HEAD RECEIVERS AT ALUMINUM STOREFRONTS AND CURTAIN WALLS AS REQUIRED FOR STRUCTURAL DEFLECTION ALLOWANCE.
E. SEE SPECIFICATIONS HARDWARE SECTION FOR HARDWARE SETS NOTED IN DOOR AND FRAME SCHEDULE.

DOOR PANEL TYPE DESCRIPTIONS

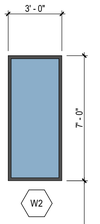
F FLUSH PANEL
FG FULL LITE GLASS

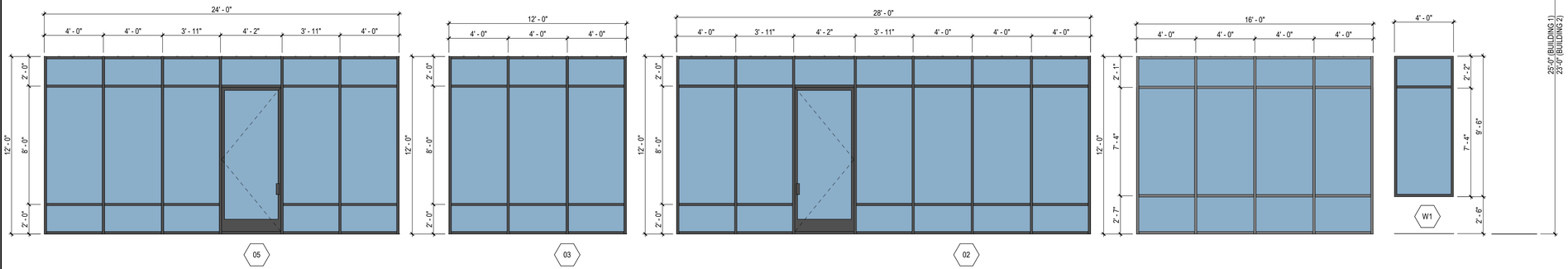
GLAZING TYPE DESCRIPTIONS

T TEMPERED GLASS



NOTE:
REFER TO SHT.A9.3 FOR STOREFRONT/WINDOW DETAILS





1 A8.2 EXTERIOR STOREFRONT & WINDOW ELEVATIONS
SCALE: 1/4" = 1'-0"

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DOOR & WINDOW TYPE & SCHEDULE

A8.2

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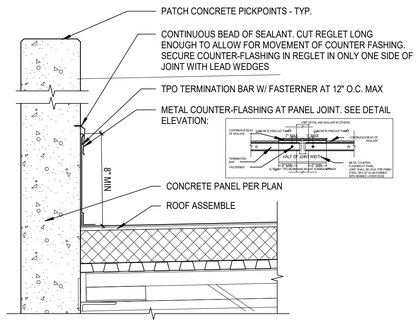
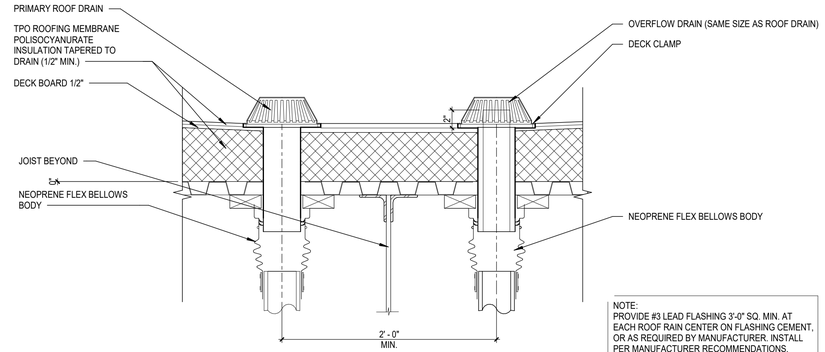
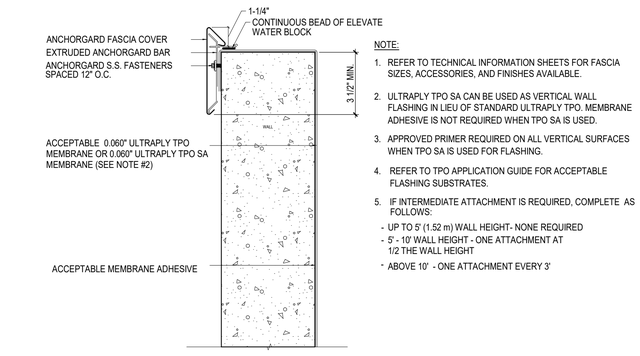


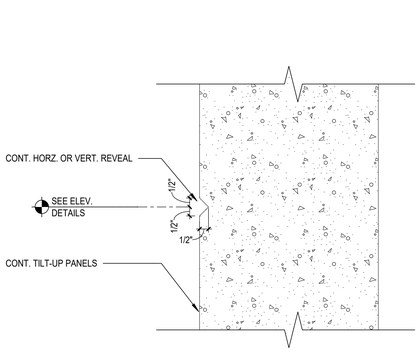
1A A9.1 ROOFING EDGE DETAIL
SCALE: 1" = 1'-0"



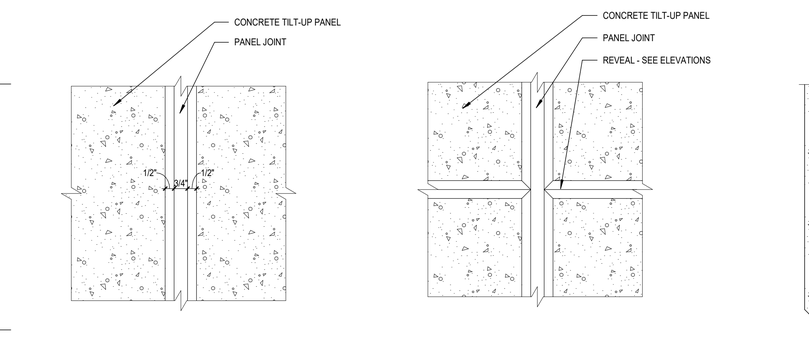
1B A9.1 ROOF AND OVERFLOW DRAINS
SCALE: 1 1/2" = 1'-0"



1C A9.1 TERMINATION WITH FASCIA COVER AT PARAPET (PRICED AS ALTERNATE)
SCALE: 3" = 1'-0"

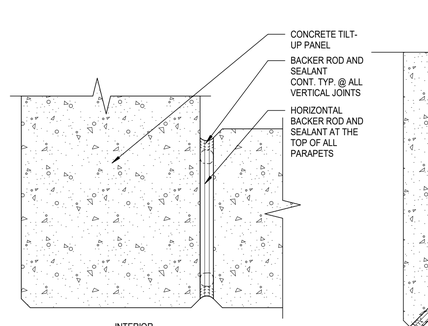


2A A9.1 DOCK PIT DETAIL
SCALE: 3/4" = 1'-0"

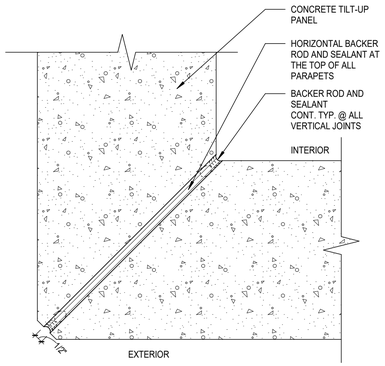


2B A9.1 HEAD @ ENTRY SOFFIT
SCALE: 3" = 1'-0"

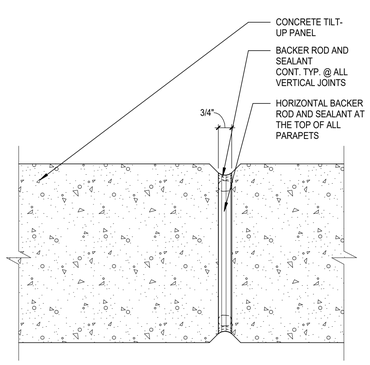
3D A9.1 CANOPY SECTION
SCALE: 3" = 1'-0"



3A A9.1 PANEL JOINT @ INSIDE CORNER
SCALE: 3" = 1'-0"



3B A9.1 PANEL JOINTS @ OUTSIDE CORNER
SCALE: 3" = 1'-0"



3C A9.1 PANEL JOINT
SCALE: 3" = 1'-0"

4A A9.1 TYP. PANEL REVEAL - 1"
SCALE: 3" = 1'-0"

4B A9.1 VERTICAL REVEAL @ PANEL JOINT
SCALE: 3" = 1'-0"

4C A9.1 HORIZONTAL REVEAL @ PANEL JOINT
SCALE: 3" = 1'-0"

4D A9.1 EXP. JOINT @ EXTERIOR WALL CORNER
SCALE: 3" = 1'-0"

4E A9.1 EXP. JOINT @ EXTERIOR WALL
SCALE: 3" = 1'-0"

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STATE OF UTAH
TIMOTHY L THIELKE
No. 13139839-0301
01-31-2026
LICENSED ARCHITECT

KIVA: 23-1213
Q.S.: Q9-31
PRLM: 2401758
SCMJ: 2403611
LSPL: TBD
LSIS: TBD
REZONE:Z-67-88
CPGD # 2403898
QS # 9-31
PLAT # 240035

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7800 LOGISTICS W. JORDAN

GO INDUSTRIAL

4555 W 7800 S (BLDG 1) & 7888 Airport Road (BLDG 2), WEST JORDAN, UT 84088

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29-26101-00

BUILDING DETAILS

A9.1

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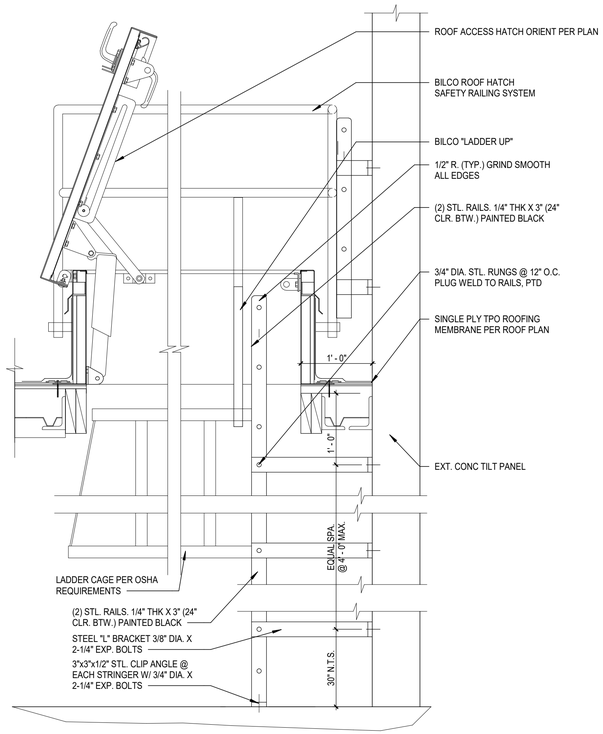
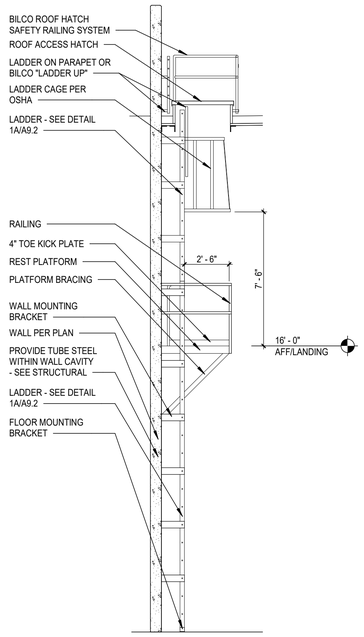
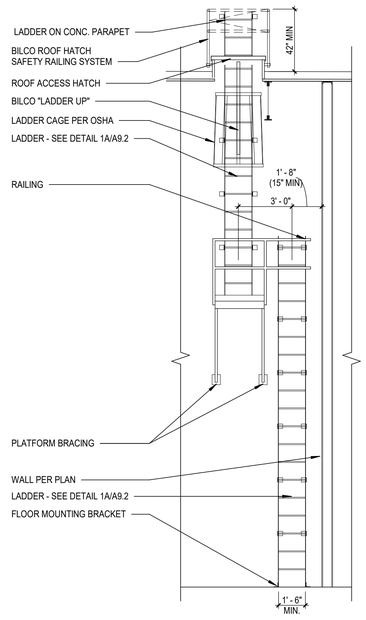


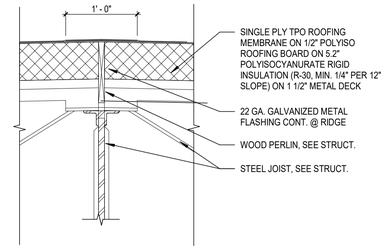
1A A9.2 ROOF HATCH/ACCESS LADDER
SCALE: 1" = 1'-0"



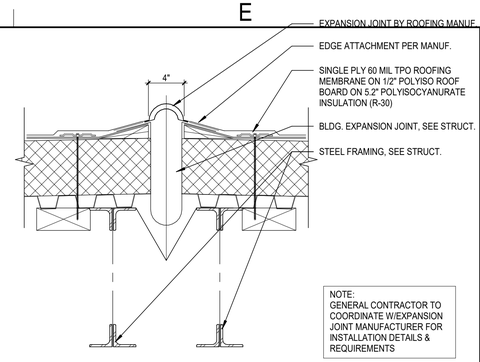
1B A9.2 ROOF LADDER SECTION
SCALE: 1/4" = 1'-0"



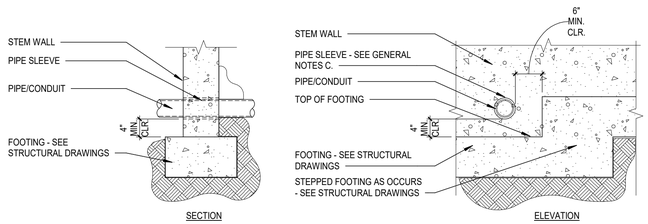
1C A9.2 ROOF LADDER ELEVATION
SCALE: 1/4" = 1'-0"



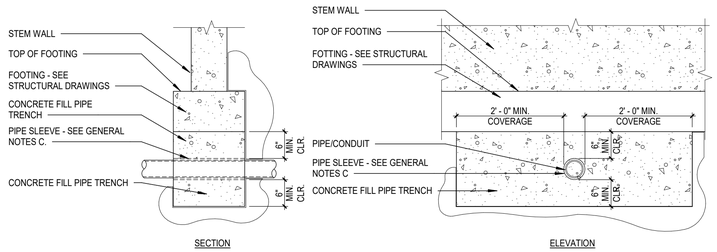
1D A9.2 ROOFING RIDGE DETAIL
SCALE: 1" = 1'-0"



1E A9.2 ROOF STRUCTURE EXPANSION JOINT
SCALE: 1 1/2" = 1'-0"



A. ABOVE FOOTING CONDITIONS



B. BELOW FOOTING CONDITIONS

GENERAL NOTES:
A. REFER TO STRUCTURAL FOR ALL DIMENSIONAL REQUIREMENTS.
B. CONTRACTOR TO COORDINATE & LOCATE ALL UNDERGROUND UTILITIES PRIOR TO POURING THE FOUNDATION.
C. THE MINIMUM INTERIOR DIAMETER OF THE SLEEVE SHALL BE THE EXTERIOR DIAMETER OF THE SERVICE PIPE, PLUS FOUR TIMES (4x) THE EXPECTED SETTLEMENT PER THE SOILS REPORT.

4C A9.2 PIPE/SLEEVE PENETRATIONS THROUGH PERIMETER FOUNDATION/STEM WALL
SCALE: 3/4" = 1'-0"

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01-31-2026
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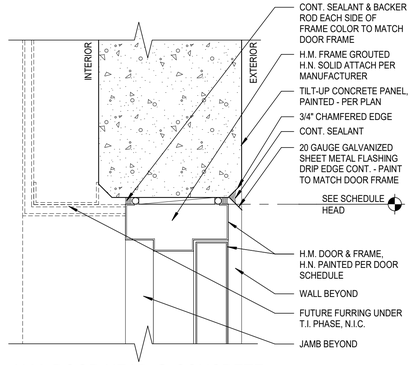
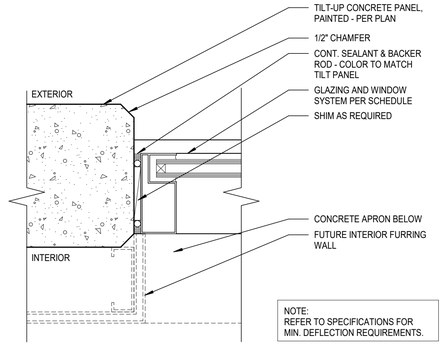
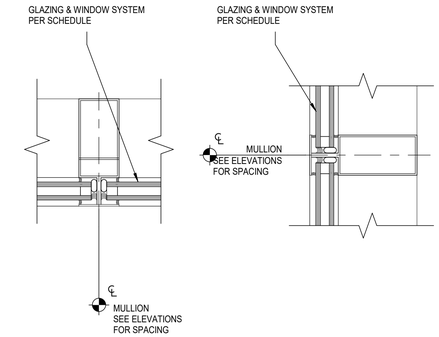


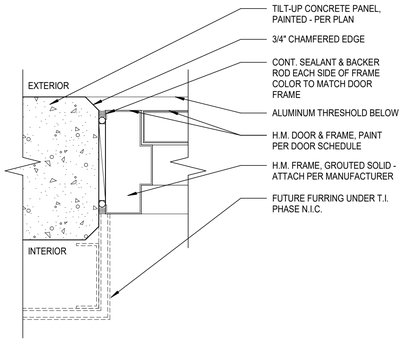
1B A9.3 H.M. DOOR HEAD @ CONCRETE
SCALE: 3" = 1'-0"



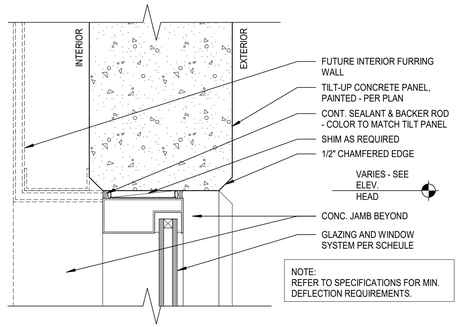
1C A9.3 AL/GL WINDOW JAMB @ CONCRETE
SCALE: 3" = 1'-0"



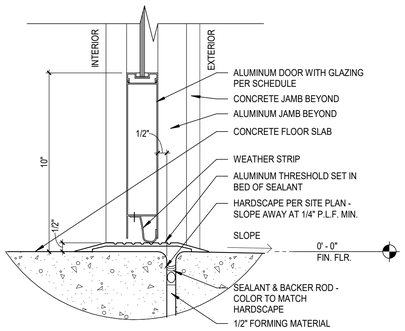
1E A9.3 MULLION DETAILS FULLY CAPTURED
SCALE: 3" = 1'-0"



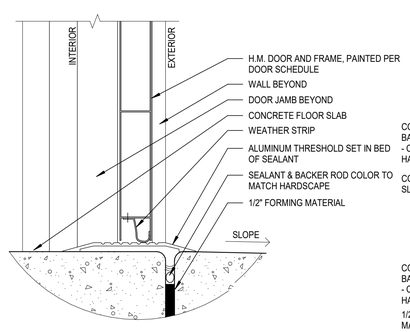
2B A9.3 H.M. DOOR JAMB @ CONCRETE
SCALE: 3" = 1'-0"



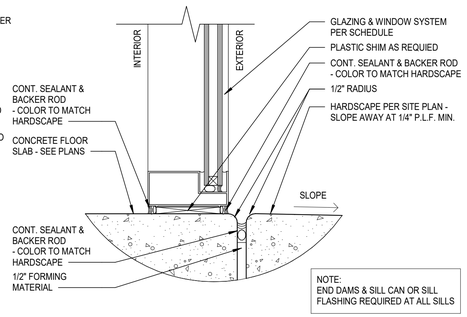
2C A9.3 AL/GL WINDOW HEAD @ CONCRETE
SCALE: 3" = 1'-0"



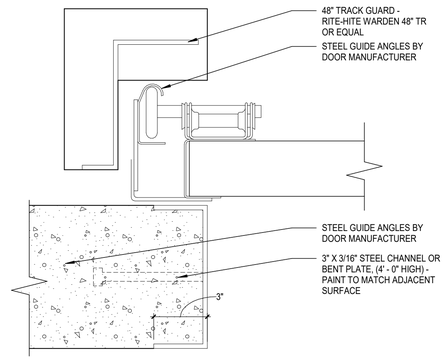
3A A9.3 AL/GL DOOR THRESH. @ CONCRETE
SCALE: 3" = 1'-0"



3B A9.3 H.M. DOOR THRESHOLD @ CONCRETE
SCALE: 3" = 1'-0"



3C A9.3 STOREFRONT SILL @ HARDSCAPE
SCALE: 3" = 1'-0"



3E A9.3 OVERHEAD DOOR JAMB
SCALE: 3" = 1'-0"

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TIMOTHY L THIELKE
No. 13139839-0301
05-31-2026
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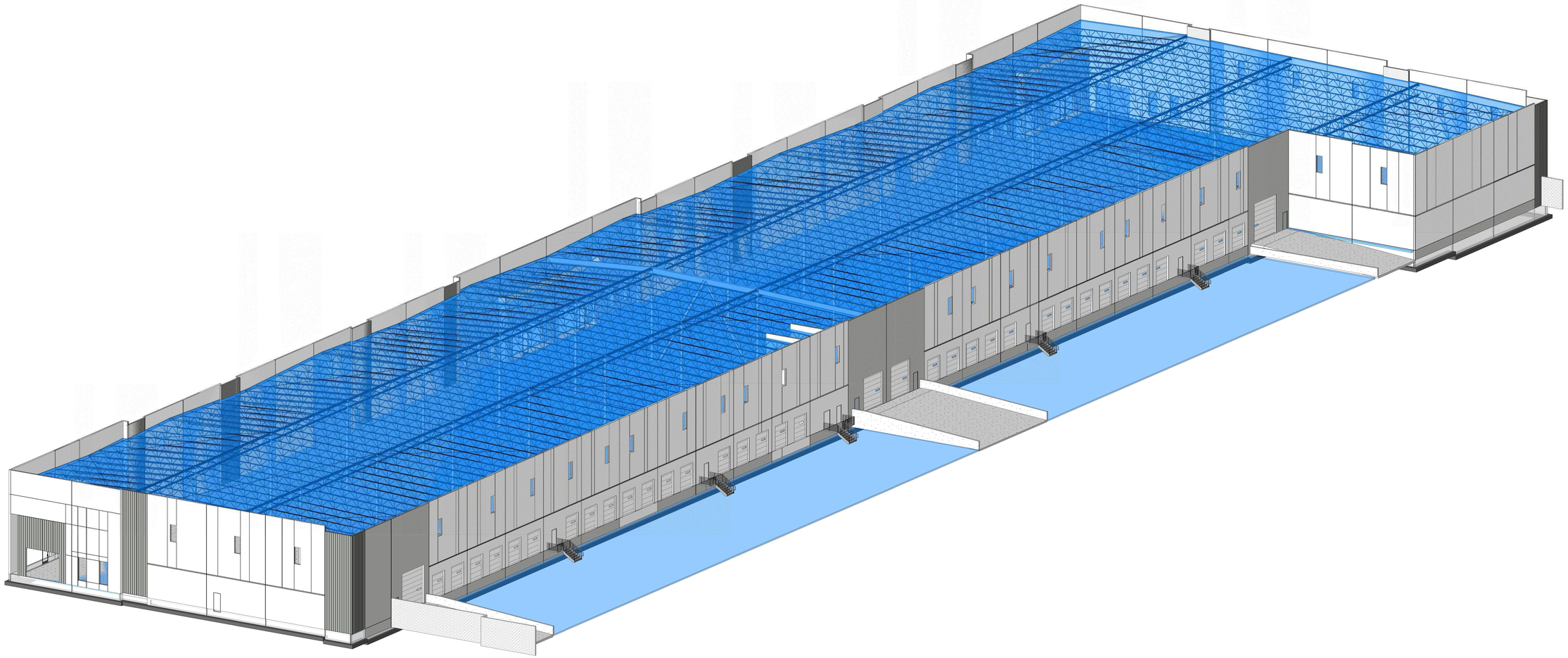

3D VIEW

SCALE:

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-HSA-
HSA & ASSOCIATES, INC.
CONSULTING STRUCTURAL ENGINEERS
301 N. Lake Avenue, 5th floor
Pasadena, CA 91101
Tel: (626) 529-9911

HSA PROJECT NO.: 25-117
DRAWN BY: T.T. / M.F.

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GO INDUSTRIAL

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WEST JORDAN, UT 84088

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02/27/26
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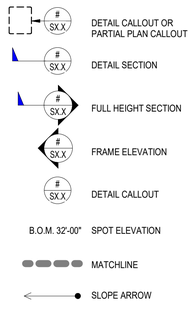
25-117

3D VIEW

S0.0
(BLDG.1)

SYMBOLS



ABBREVIATIONS

	@	AT
	&	AND
	CL	CENTERLINE
	Ø	DIAMETER
	PL	PLATE
	±	PLUS/MINUS
A	A.B.	ANCHOR BOLT
	ABV.	ABOVE
	ACI	AMERIAN CONCRTE INSTITUTE
	ADD'L	ADDITIONAL
	AISC	AMERICAN INSTITUTE OF STEEL
	ALT.	ALTERNATE
	APPROX.	APPROXIMATE
	ARCH.	ARCHITECT, ARCHITECTURAL
	ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
	ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
	AVG.	AVERAGE
	AWS	AMERICAN WELDING SOCIETY
B	B/O	BOTTOM OF
	B/W	BETWEEN
	BLDG	BUILDING
	BLKG	BLOCKING
	BM	BEAM
	B.M.D.	BOTTOM OF METAL DECK
	BOTT.	BOTTOM
	B.P.	BOTTOM OF PANEL/BASE PLATE
	BRDG.	BRIDGE, BRIDGING
	BRG.	BEARING
	BT.	BENT
C	C	CHANNEL
	C/C	CENTER TO CENTER
	CAP	CAPACITY
	C.I.P.	CAST-IN-PLACE
	C.J.	CONTROL JOINT
	CLR.	CLEAR
	CMU	CONCRETE MASONRY UNIT
	COEF	COEFFICIENT
	COL.	COLUMN
	CONC.	CONCRETE
	CONN.	CONNECTION
	CONSTR.	CONSTRUCTION
	CONT.	CONTINUOUS, CONTINUE
	CORR.	CORRIDOR
	CTR.	CENTER
	CU. YD.	CUBIC YARD
D	D	DEPTH
	DBA	DEFORMED BAR ANCHOR
	DBL	DOUBLE
	DEG.	DEGREE
	DEMO	DEMOLITION
	DEPT.	DEPARTMENT
	DET.	DETAIL
	DIA.	DIAMETER
	DIAG.	DIAGONAL
	DIM.	DIMENSION
	DL	DEAD LOAD
	DWG(S)	DRAWING(S)
	DWL.	DOWEL
E	EA.	EACH
	E.B.	EXPANSION BOLT
	ECC	ECCENTRIC
	E.E.	EACH END
	E.F.	EACH FACE
	EIFS	EXTERIOR INSULATION AND FINISH
	E.J.	EXPANSION JOINT
	EL.	ELEVATION
	ELEV.	ELEVATOR OR ELEVATION
	ENG.	ENGINEER
	E.O.P.	EDGE OF CONCRETE PANEL
	E.O.R.	ENGINEER OF RECORD
	EQ.	EQUAL
	EQUIP.	EQUIPMENT
	E.S.	EACH SIDE
	E.W.	EACH WAY
	EXP.	EXPANSION
	EXT.	EXTERIOR
F	FB	FLAT BAR
	F.F.	FINISH FLOOR
	F.G.	FINISH OF GRADE (FAR SIDE)
	FIN.	FINISH, FINISHED
	F.L.	FLOW LINE WALL ELEVATION
	FLR.	FLOOR
	FND.	FOUNDATION
	F.O.P.	FACE OF CONCRETE PANEL
	FRM.	FRAME
	F.S.	FINISH SURFACE ELEVATION
	FT	FOOT, FEET
	FTG	FOOTING
G	GA	GAUGE
	GALV.	GALVANIZED
	G.C.	GENERAL CONTRACTOR
	GEN.	GENERAL
	GEOR	GEO-TECHNICAL ENGINEER OF RECORD
	GR.	GRADE, GROUND
	GYP. BR.	GYPSUM BOARD
H	H	HEIGHT
	HC	HOLLOW CORE
	HDR.	HEADER
	HK.	HOOK
	HOR.	HORIZONTAL
	H.P.	HIGH POINT
	HR.	HOUR
	H.S.	HEADED STUD
	H.S.B.	HIGH STRENGTH BOLT
	HT.	HEIGHT
	HVAC	HEATING, VENTILATION & AIR

I	I.F.	INSIDE FACE
	IN	INCH
	INFO.	INFORMATION
	INT.	INTERIOR
	INV.	INVERT
	ISO	ISOMETRIC VIEW
J	JST.	JOIST
	JT.	JOINT
K	K	KIP, KILOPOUND (1000 POUNDS)
	KLF	KIPS PER LINEAR FOOT
	K.O.P.	KNOCK-OUT PANEL
L	L	ANGLE, LENGTH
	LAB	LABORATORY
	LB	POUND (WEIGHT)
	LEV.	LEVEL
	LIN.	LINEAR
	LL	LIVE LOAD
	LLH	LONG LEG HORIZONTAL
	LLV	LONG LEG VERTICAL
	LONG.	LONGITUDINAL
	L.P.	LOW POINT
	LVR.	LOUVER
	L.W.	LONG WAY
	LW(C)	LIGHT WEIGHT (CONCRETE)
M	M	BENDING MOMENT
	MAX.	MAXIMUM
	MB	MISCELLANEOUS REBAR
	MC	MOMENT CONNECTION
	MECH.	MECHANICAL
	M/E/P	MECHANICAL/ELECTRICAL/PLUMBING
	MEZZ.	MEZZANINE
	MFR.	MANUFACTURE, MANUFACTURER
	MIN.	MINIMUM
	MISC.	MISCELLANEOUS
	MK.	MARK
	MTL	METAL
	MWRS	MAIN WIND-FORCE RESISTING SYSTEM
N	NO. OR #	NUMBER
	N.T.S.	NOT TO SCALE
	N.F.	NEAR FACE
	NW(C)	NORMAL WEIGHT (CONCRETE)
O	O.C.	ON CENTER
	O.F.	OUTSIDE FACE
	O.M.R.F.	ORDINARY MOMENT-RESISTANCE FRAME
	OPNG.	OPENING
	OPP.	OPPOSITE
P	PAR.	PARALLEL
	PE	PROFESSIONAL ENGINEER
	P.E.B.	PRE-ENGINEERED BUILDING
	P.E.J.	PREMOULDED EXPANSION JOINT
	PERP	PERPENDICULAR
	P.J.	PANEL JOINT
	P.J.F.	PREFORMED JOINT FILLER
	PL	PLATE
	PLF	POUNDS PER LINEAR FOOT
	PREFAB.	PREFABRICATED
	PSF	POUNDS PER SQUARE FOOT
	PSI	POUNDS PER SQUARE INCH
	PT	POST-TENSIONED, PRESSURE TREATED
Q	QTY	QUANTITY
R	R	RADIUS
	REBAR	REINFORCING BAR
	REF.	REFERENCE
	REINF.	REINFORCEMENT, REINFORCE
	REQ'D	REQUIRED
	RET.	RETAINING
S	S.C.	SLIP CRITICAL
	SCHED.	SCHEDULE
	SEC.	SECTION
	SF	SQUARE FOOT
	SHT.	SHEET
	SIM.	SIMILAR
	S.M.R.F.	SPECIAL MOMENT-RESISTANCE FRAME
	S.O.G.	SLAB ON GRADE
	SPECS	SPECIFICATIONS
	SQ.	SQUARE
	STD.	STANDARD
	STGR.	STAGGER
	STIFF.	STIFFENER
	STL.	STEEL
	STIRRUP	STIRRUP
	S.T.M.F.	SPECIAL TRUSS MOMENT FRAME
	STR.	STRUCTURAL, STRAIGHT
	SUB	SUBCONTRACTOR
	S.W.	SHEAR WALL
	SYM.	SYMMETRICAL
T	T/O	TOP OF
	T&B	TOP AND BOTTOM
	TEMP.	TEMPERATURE, TEMPORARY
	THK.	THICK, THICKNESS
	THRU	THROUGH
	T.I.	TENANT IMPROVEMENT
	TOL.	TOLERANCE
	T.O.C.	TOP OF CONCRETE
	T.P.	TOP OF PANEL ELEVATION
	T.S.	TOP OF SHEATHING
	TYP.	TYPICAL
U	U.N.O. OR UNO	UNLESS NOTED OTHERWISE
V	V	VELOCITY
	VERT.	VERTICAL
W	W	WIDTH, WIDE FLANGE
	W/	WITH
	W/O	WITHOUT
	W.P.	WORKING POINT
	WT.	WEIGHT
	W.W.F.	WELDED WIRE FABRIC

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S2.0	ROOF FRAMING PLAN
S3.1	ROOF NAILING DIAGRAM GIRDER AND BAR JOIST SCHEDULE
S4.1	PANEL ELEVATIONS
S4.2	PANEL ELEVATIONS
S4.3	PANEL ELEVATIONS
S4.4	PANEL ELEVATIONS
S4.5	PANEL ELEVATIONS
S4.6	PANEL ELEVATIONS
S4.7	PANEL ELEVATIONS
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S4.9	EXTERIOR STEEL STAIR PLAN AND ELEVATION
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SD1.0	FOUNDATION DETAILS
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SD2.0	PANEL TO FOOTING DETAILS
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SD3.1	PANEL REBAR SCHEDULE
SD4.0	TYPICAL ROOF FRAMING DETAILS
SD4.1	TYPICAL ROOF FRAMING DETAILS
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SD5.1	BRACED FRAME DETAILS
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SD7.0	MISCELLANEOUS DETAILS
SD7.1	MISCELLANEOUS DETAILS
SD8.0	METAL STUD DETAILS
SD9.0	T-BAR CEILING DETAILS

TOTAL SHEETS: 33

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HSA PROJECT NO. :25-117
DRAWN BY: T.T. / M.F.

7800 LOGISTICS W. JORDAN
GO INDUSTRIAL
4555 W 7800 S (BLDG.1) & 7888 Airport Road (BLDG.2).
WEST JORDAN, UT 84088

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SYMBOLS, ABBREVIATIONS, AND SHEET LIST

S0.1
(BLDG.1)

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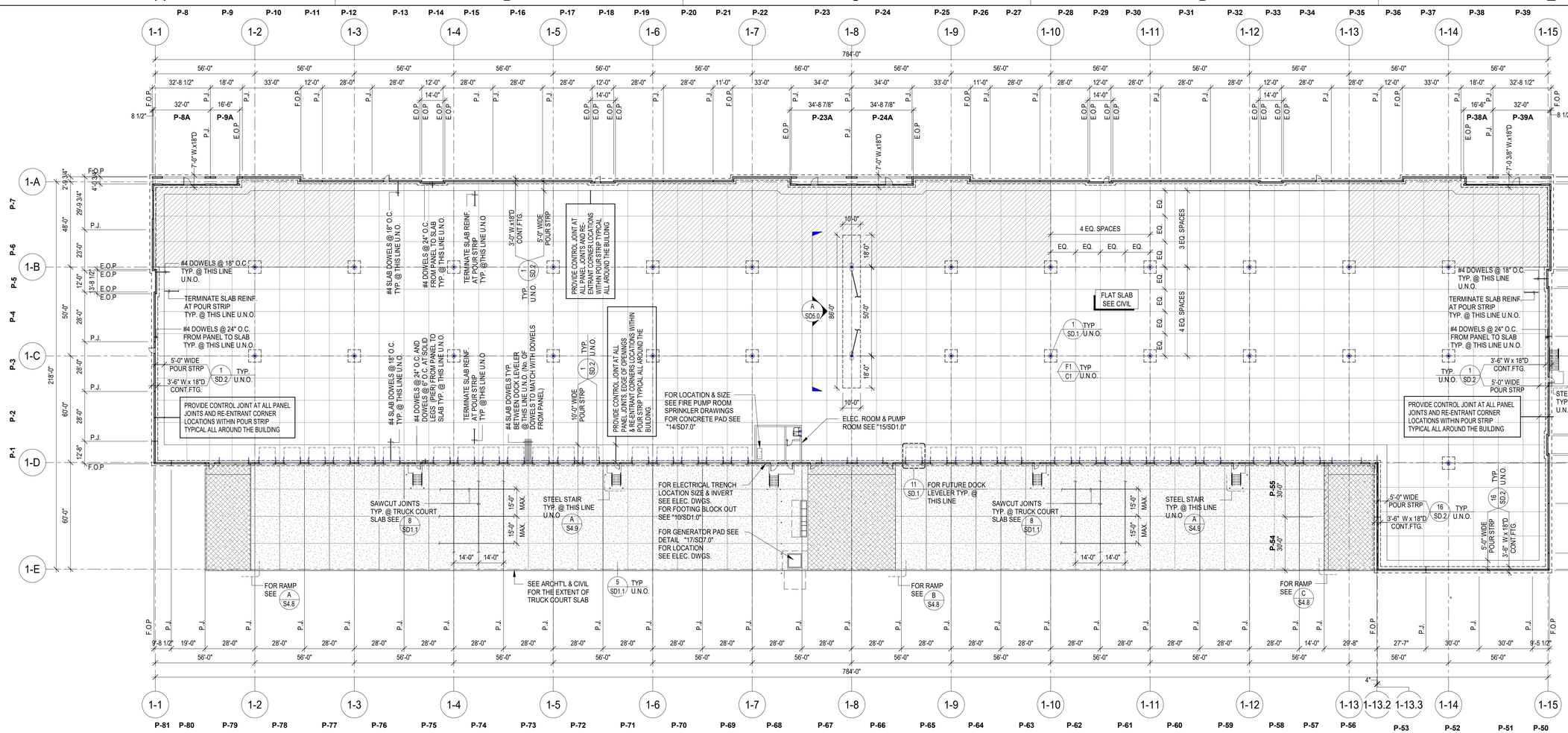

1 OVERALL FOUNDATION PLAN

SCALE: 1" = 30'-0"

PLAN NORTH

TRUE NORTH

FOUNDATION NOTES:

1. FOR GENERAL NOTES SEE SD-0 SERIES SHEET
2. PERIMETER POUR STRIP TO BE POURED AFTER ALL PANELS HAVE BEEN ERECTED.
3. PROVIDE GROUT UNDER THE PANELS FOR THE FULL LENGTH OF THE FOOTING BEFORE PANELS HAVE BEEN ERECTED. AS AN ALTERNATE FOR CONTINUOUS GROUT, USE 18" SQ. GROUT PADS LOCATED AT 6'-0" O.C. MAX., 3'-0" FROM PANEL JOINT, AND AT EACH SIDE OF PANEL OPENING. THEN GROUT FULL LENGTH OF THE PANEL AFTER PANELS ARE ERECTED. SEE DETAIL "19/SD-2 ".
4. SEE ARCHITECTURAL, ELECTRICAL, PLUMBING MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF SLAB DEPRESSION AND OPENINGS REQUIRED FOR DUCTS, PIPES SLEEVES, ELECTRICAL CONDUITS AND OTHER EMBEDDED IN CONCRETE, UNLESS NOTED OTHERWISE.
5. F.O.P. = DENOTES FACE OF CONCRETE PANEL
   E.O.P. = DENOTES EDGE OF CONCRETE PANEL
   P.J. = DENOTES PANEL JOINTS.
   K.O.P. = DENOTES KNOCK OUT PANEL
6. CONTRACTOR SHALL VERIFY BOTTOM OF PANEL WITH THE LATEST GRADING PLAN.
7. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH THE LATEST ARCHITECTURAL AND STRUCTURAL DRAWINGS BEFORE FORMING OF PRECAST CONCRETE PANELS.
8. CONTRACTOR TO COORDINATE LOCATION OF SPRINKLER MAIN RISER W/FIRE PROTECTION DWG'S. SEE DETAIL " 9/SD1.0 ".
9. CONTRACTOR TO COORDINATE LOCATION OF ELECTRICAL TRENCH W/ELECTRICAL DWG'S. SEE DETAIL " 10/SD1.0 " FOR TYPICAL FOOTING BLOCK-OUT.
10. FOR FINISH FLOOR ELEVATION SEE CIVIL DRAWING.
11. PROVIDE SURVEY STAKES PRIOR TO FOUNDATION INSPECTION TO VERIFY LOT LINES.
12. CONTRACTOR REFER TO DETAIL " 11/SD1.0" FOR SAW-CUT OPENING OF FUTURE DOCK LEVELER.
13. CONTRACTOR TO BE RESPONSIBLE FOR DAMAGE TO SLAB FROM HEAVY LOADING DURING CONSTRUCTION.
14. ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD PRIOR TO THE PLACEMENT OF ANY REINFORCING STEEL. A WRITTEN REPORT PREPARED BY THE GEOTECHNICAL ENGINEER OF RECORD STATING THE RESULTS OF THE GEOTECHNICAL ENGINEER'S INSPECTION SHALL BE PROVIDED TO THE CITY INSPECTOR PRIOR TO THE PERFORMANCE OF ANY FOUNDATION INSPECTION. EXCAVATION SHALL BE MADE IN COMPLIANCE WITH CAL/OSHA REGULATIONS.
15. A LINE AND GRADE CERTIFICATION PREPARED BY CIVIL ENGINEER OF RECORD SHALL BE GIVEN TO THE CITY INSPECTOR PRIOR TO PERFORMANCE OF ANY FOUNDATION INSPECTION. THIS CERTIFICATION SHALL STATE THAT THE CORRECT LOCATION FOR ALL STRUCTURES IS ESTABLISHED IN ACCORDANCE WITH THE CITY APPROVED PRECISE GRADING PLAN.
16. THE FINAL COMPACTION REPORT AND GEOTECHNICAL ENGINEER EXCAVATION INSPECTION REPORT MUST BE SUBMITTED TO THE BUILDING INSPECTOR PRIOR TO FOUNDATION INSPECTION AND THAT CITY INSPECTOR MUST INSPECT EXCAVATIONS BEFORE POURING ANY CONCRETE.
17. PRIOR TO THE CONTRACTOR REQUESTING A FOUNDATION INSPECTION, THE GEOTECHNICAL ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT;
    A) THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
    B) THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED.
    C) THE FOUNDATION EXCAVATION WAS MADE TO COMPLY THE RECOMMENDATION FOR EXPANSIVE CHARACTERISTICS AND BEARING CAPACITY.
18. PERIMETER POUR STRIP AT DOCK LEVELERS SHALL BE FREE OF ALL UNDERGROUND PIPING, CONDUIT ETC. TO ALLOW FOR FUTURE RECESSED DOCK LEVELERS .
19. ROOF LADDER DESIGN, OF MEMBERS, BRACES AND CONNECTIONS TO STRUCTURE WILL BE DONE BY THE SUPPLIER IN ACCORDANCE WITH THE BUILDING CODE.
20. CONTRACTOR TO RE-RUN SAW BLADE THROUGH CONTROL JOINTS FOR PROPER CLEAN-OUT AT END OF PROJECT.

LEGENDS:

DENOTES WAREHUSE AREA
6-1/2" THK. MIN. REINFORCED CONCRETE SLAB
FOR ADD. INFO SEE DET. 1/SD1.1 & 2/SD1.1

DENOTES OFFICE AREA
6-1/2" THK. MIN. REINFORCED CONCRETE SLAB WITH 15MIL STEGO WRAP
FOR ADD. INFO SEE DET. 1/SD1.1 & 2/SD1.1

7" THK. MIN. REINFORCED CONCRETE TRUCK COURT SLAB SEE CIVIL DRAWINGS FOR EXTENT EDGE OF SLAB
FOR ADD. INFO. SEE DET. 8/SD1.1
(CLIENT TO CONFIRM PREFERENCE)

6" THK. MIN. REINFORCED CONCRETE SLAB TYPICAL AT DRIVE THROUGH RAMP FOR ADDITIONAL INFO. SEE ENLARGED PLAN ON "S4.11"

F* — DENOTES FOOTING TYPE (F) SEE FOUNDATION SCHEDULE
C* — DENOTES COLUMN TYPE (C) SEE FCOLUMN SCHEDULE

COLUMN SCHEDULE

MARK	SIZE	HEIGHT	BASE PLATE		
			SIZE	ANCHOR BOLTS	DETAIL
C1	HSS10X10X5/16	TO ROOF	7/8"x16"x1'-4"	(4)-7/8"A.B.	1/SD.1

FOOTING SCHEDULE

MARK	DIMENSIONS			REINFORCING	DETAIL
	LENGTH	WIDTH	DEPTH		
F1	7'-0"	7'-0"	1'-6"	7 - #6 E.W.	1 / SD1

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FOUNDATION PLAN

S1.0
(BLDG.1)

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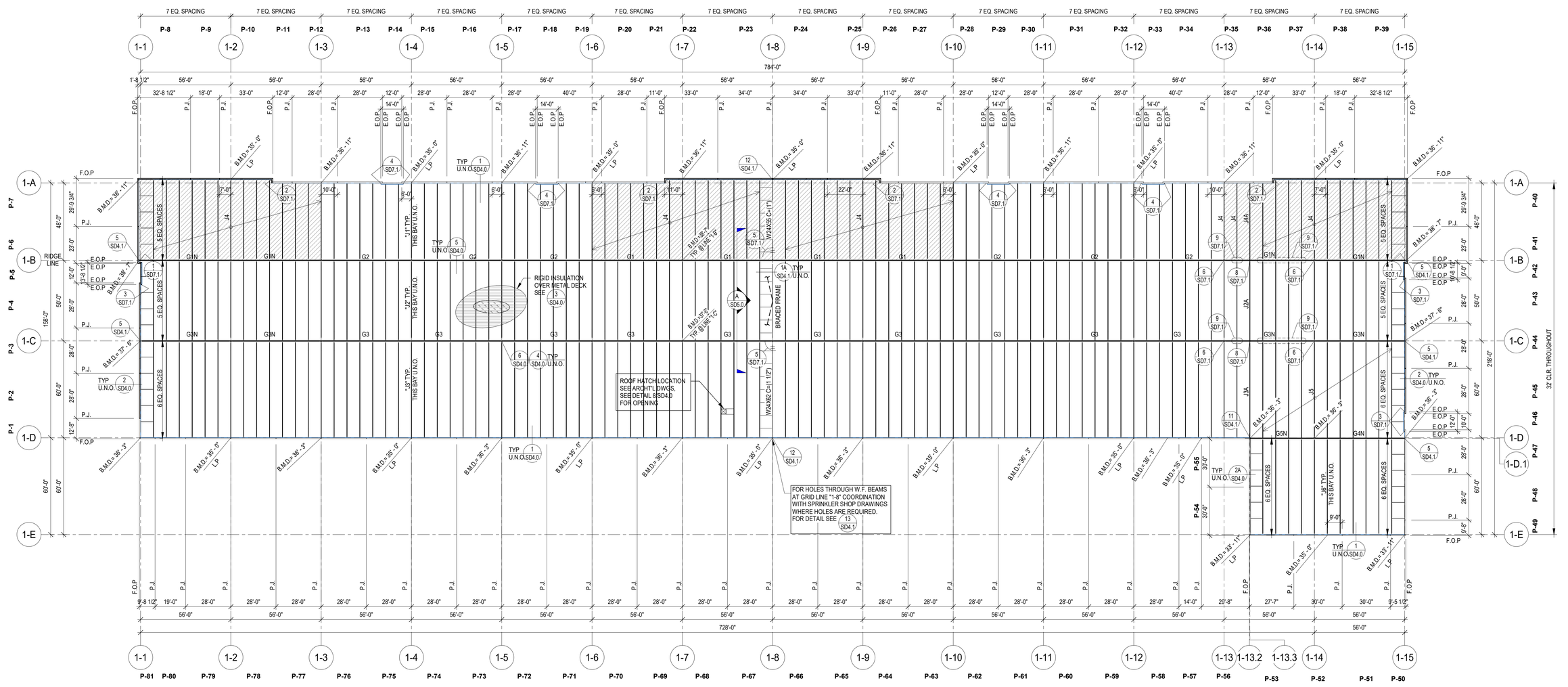

1 OVERALL ROOF PLAN

SCALE: 1" = 30'-0"

ROOF FRAMING NOTES:

1. FOR GENERAL NOTES SEE SHEET "SD-0", "SD-0.1" and "SD-0.2". FOR TYPICAL ROOF FRAMING DETAILS SEE SHEET "SD.4" AND "SD4.1"
2. FOR GIRDER JOIST SCHEDULE, ROOF PIN ATTACHEMENTS DIAGRAM AND NOTES SEE SHEET "S-3.1".
3. B.M.D = DENOTES BOTTOM OF METAL DECK
4. ALL ROOF ELEVATIONS ARE TAKEN DIRECTLY FROM THE FINISH FLOOR RIGHT BELOW REFERENCE POINT
5. SEE ARCHT'L AND MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECH. EQUIPMENTS FOR DETAIL SEE 8/SD.4, 12/SD.4 & 14/SD.4
6. SEE SPRINKLER DRAWINGS FOR EXACT LOCATION & WEIGHT OF SPRINKLER MAINS
7. SEE ARCH'L FOR SKYLIGHT LOCATION FOR OPENING SEE DETAIL 13/SD.4

ADEQUACY OF SUPPORTS FOR SPRINKLER SYSTEM DESIGN LOADS SHALL BE REVISED AND APPROVED BY ENGINEER OF RECORD PRIOR TO FIELD INSTALLATION AND INSPECTION.

LEGENDS:

DENOTES OFFICE AREA

DENOTES EXHAUST FAN VERIFY LOCATIONS & NO. OF UNITS W/ LATEST ARCHT'L DWG'S & MECH DWG'S. SEE DETAIL 12/SD.4

MECH'L UNIT SCHEDULE

(TO BE CONFIRMED BY MECH. ENG.)

UNIT NO.	OPER. WT. (LBS)
EF - THRU EF -	-

NOTE:

VERIFY WEIGHT OF MECH. UNITS W/ LATEST MECHANICAL & ARCHITECTURAL. DWG'S.

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ROOF FRAMING PLAN

S2.0
(BLDG.1)

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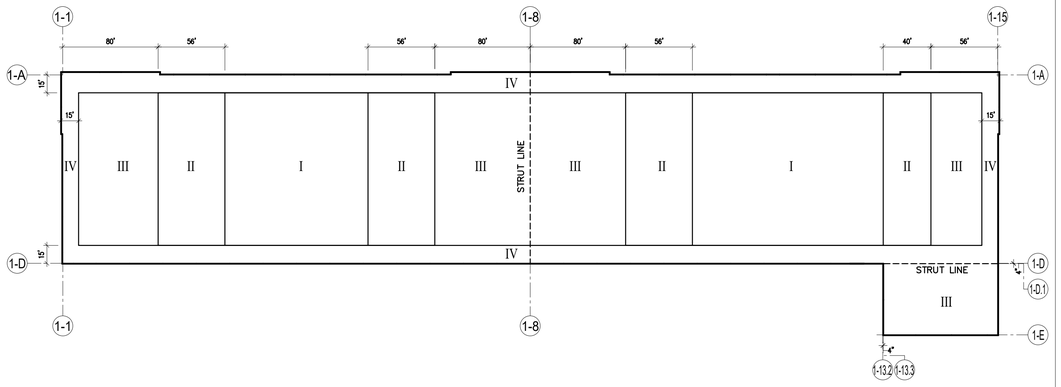
GIRDER AND JOIST PURLIN SCHEDULE

JOIST SCHEDULE							
JOIST NUMBER	DESIGNATION (TL,LL)	DESIGNATION (TL,SL)	SEISMIC AXIAL (LRFD)	*MIN. GROSS MOMENT OF INERTIA AT MID SPAN (IN4)	*TOP CHORD BEND-CHECK LOAD (IF REQ.): LR	*BOTTOM CHORD BEND-CHECK LOAD (IF REQ.)	COMMENTS
J1	30LH 227/131	30LH 292/196	22 K	593	0.25 K	0.25 K	
J2	32LH 224/128	32LH 292/196	22 K	-	-	0.25 K	
J3	36LH 212/116	36LH 292/196	22 K	1100	0.25 K	0.25 K	
J4	30LH 259/131	30LH 324/196	22 K	681	0.25 K	0.25 K	OFFICE
J5	36LH 212/116	36LH 292/196	22 K	-	-	0.25 K	
J6	49/23LH 212/116	49/23LH 292/196	22 K	1100	0.25 K	0.25 K	TAPERED
J2A	32LH 224/128	32LH 292/196	87 K	-	-	0.25 K	
J3A	36LH 212/116	36LH 292/196	87 K	1312	0.25 K	0.25 K	
J4A	30LH 259/131	30LH 324/196	87 K	856	0.25 K	0.25 K	OFFICE

*WHERE TOP BEND CHECK REQ'D, THE MAX. DISTANCE OF PANEL POINTS WILL BE 4FT

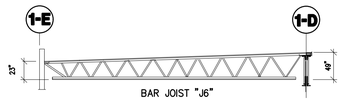
GIRDER SCHEDULE *						
GIRDER NUMBER	DESIGNATION (TL,LL)	DESIGNATION (TL,SL)	SEISMIC AXIAL (LRFD)	SEISMIC DRAG LOAD (AXIAL) Em Ω	MIN. GROSS MOMENT OF INERTIA AT MID SPAN (IN4)	COMMENTS
G1	56G7N 11K/4.8K	56G7N 15.9K/9.7K	118 K		8988	OFFICE
G2	56G7N 10.2K/4.8K	56G7N 15.1K/9.7K	118 K		8266	
G3	60G7N 11.5K/5.3K	60G7N 17K/10.8K	136 K		9956	
G4	46G7N 12.5K/5.8K	46G7N 18.5K/11.8K	154 K	107 K	8082.00	
G5	46G5N 12.5K/5.8K	46G5N 18.5K/11.8K	154 K	107 K	4713	

* PROVIDE BENT PLATE AT GIRDER MARKED WITH "N" ON ROOF PLAN SEE DETAIL 5/SD-4



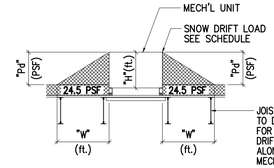
ROOF ATTACHMENT DIAGRAM

SCALE: 1" = 60'-0"



ROOF NOTES:

1. FOR GENERAL NOTES SEE SHEET "SD-0.0" , "SD-0.1" & "SD-0.2".
2. COORDINATE WITH ARCHITECTURAL, ELECTRICAL, PLUMBING AND MECHANICAL DRAWINGS FOR NUMBER AND SIZE OF ROOF OPENINGS UNLESS NOTED OTHERWISE. FOR FRAMING, SEE STRUCTURAL DETAIL 8/SD-4 & 9/SD-4 , 12/SD-4 & 13/SD-4
3. B.M.D. = DENOTES BOTTOM OF METAL DECK
   F.O.P. = DENOTES FACE OF PANEL
   P.J. = DENOTES PANEL JOINTS
4. ALL ROOF ELEVATIONS NOTED HERE ARE TO BOTTOM OF METAL DECK (B.M.D.) U.N.O. ALL ROOF ELEVATIONS ARE TAKEN DIRECTLY FROM THE FINISH FLOOR RIGHT BELOW REFERENCE POINT
5. FOR LOCATION OF MECHANICAL UNITS , SEE ARCHIT'L & MECH'L DRAWINGS. FOR FRAMING OF PLATFORM, SEE STRUCTURAL DETAIL. 14/SD-4
6. STEEL BAR JOIST COMPANY TO DESIGN AND DETAIL SPECIAL STEEL BAR JOISTS TO SUPPORT ALL SPRINKLER MAINS & MECHANICAL EQUIPMENT ON ROOF.
7. BRIDGING AND BRACING FOR JOISTS AND GIRDERS WILL BE DESIGNED AND PROVIDED BY STEEL BAR JOIST COMPANY.
8. STEEL BAR JOIST/JOIST GIRDER TO SUBMIT SHOP DRAWINGS AND CALCULATIONS, STAMPED/ SIGNED BY A TEXAS LICENSED PROFESSIONAL ENGINEER FOR REVIEW BY BUILDING DEPARTMENT AND STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION OF BAR JOISTS/JOIST GIRDERS. THE ABOVE CALCULATIONS TO INCLUDE ALL LOADING CONDITIONS SHOWN AT DRAWINGS & DETAILS.
9. JOIST MANUFACTURER TO USE THE FOLLOWING LOADING CRITERIA.
   A. BAR JOIST:
      (a) DEAD LOAD = 12 PSF TYPICAL. WAREHOUSE
      16 PSF TYPICAL. OFFICE
      (INCLUDED 3.5 PSF FOR FUTURE SOLAR LOADS)
      LIVE LOAD = 20 PSF (REDUCIBLE PER CODE)
      WIND LOAD = FOR NET UPLIFT, SEE DETAIL 1/– (ASD)
      FOR DOWNWARD PRESSURE, SEE DETAIL 2/–
      SNOW LOAD = 24.5 PSF (NON-REDUCIBLE)
      SEE "A"& "B" FOR SNOW DRIFT VALUES
      (b) SPRINKLER MAINS AND SWAY BRACES AS SHOWN ON SPRINKLER DRAWING.
      (c) A.C. UNITS AS SHOWN ON MECH'L, ARCHITECTURAL & STRUCTURAL DRAWINGS.
      (d) ANY ROOF HUNG LOADS SHOWN ON ELECT. & STRUCT'L DWGS.
      (e) ANY ROOF HUNG LOADS SHOWN ON PLUMBING & STRUCT'L DWGS.
      (f) (i) ADD 500 LBS CONCENTRATED LOAD AT ANY PANEL POINT FOR EACH JOIST IN WAREHOUSE.
      (ii) ADD 1000 LBS CONCENTRATED LOAD AT ANY PANEL POINT FOR EACH JOIST IN OFFICE AREA (SEE ROOF FRAMING PLANS)
   B. JOIST GIRDER:
      (a) DEAD LOAD = 14 PSF TYPICAL WAREHOUSE
      18 PSF TYPICAL OFFICE
      (INCLUDED 3.5 PSF FOR FUTURE SOLAR LOADS)
      LIVE LOAD = 20 PSF (REDUCIBLE PER CODE)
      WIND LOAD = FOR NET UPLIFT, SEE DETAIL 1/– (ASD)
      FOR DOWNWARD PRESSURE, SEE DETAIL 2/–
      SNOW LOAD = 24.5 PSF (NON-REDUCIBLE)
      SEE "A"& "B" FOR SNOW DRIFT VALUES
      (b) SPRINKLER MAINS AND SWAY BRACES AS SHOWN ON SPRINKLER DRAWING.
      (c) A.C. UNITS AS SHOWN ON MECH'L & STRUCTURAL DRAWINGS.
      (d) ANY ROOF HUNG LOADS SHOWN ON ELECT. & STRUCT'L DWGS.
      (e) ANY ROOF HUNG LOADS SHOWN ON PLUMBING & STRUCT'L DWGS.
      (e) ANY ROOF HUNG LOADS SHOWN ON
      (f) (i) ADD 2000 LBS CONCENTRATED LOAD AT ANY PANEL POINT FOR EACH GIRDER IN WAREHOUSE.
      (ii) ADD 4000 LBS CONCENTRATED LOAD AT ANY PANEL POINT FOR EACH GIRDER IN OFFICE AREA (SEE ROOF FRAMING PLANS)
10. SEE ABOVE SCHEDULE FOR GIRDER SIZES. MANUAL SIZES NOTED AREA FOR DEAD AND LIVE LOADS NOTED IN ITEM (a) UNDER NOTE #9.B. ACTUAL DESIGN LOADS SHOULD INCLUDE LOADS LISTED IN (b), (c), (d), (e), (f) & (g) UNDER NOTE #9.B.
11. SEE ABOVE SCHEDULE FOR JOIST SIZE. MANUAL SIZES NOTED AREA FOR DEAD AND LIVE LOADS NOTED IN ITEM (a) UNDER NOTE #9.A. ACTUAL DESIGN LOADS SHOULD INCLUDE LOADS LISTED IN (b), (c), (d), (e), (f) & (g) UNDER NOTE #9.A.
12. 26LH 224/128 ETC. DENOTES "LH" SERIES OPEN WEB STEEL JOIST AS MANUFACTURED BY VULCRAFT OR APPROVED EQUIVALENT.
    DENOTES JOIST LIVE LOAD DESIGN (PLF) } NUMBERS NOTED
    DENOTES JOIST TOTAL DESIGN LOAD (PLF) } ARE ONLY AS AN
    DENOTES JOIST DEPTH } EXAMPLE
13. 44G6N 9.0K/7.0K ETC. DENOTES OPEN WEB STEEL JOIST GIRDER AS MANUFACTURED BY VULCRAFT OR APPROVED EQUIVALENT.
    DENOTES LIVE LOAD (KIPS) APPLIED AT EACH GIRDER PANEL POINT.
    DENOTES TOTAL DESIGN LOAD (KIPS) APPLIED AT EACH GIRDER PANEL POINT. } NUMBERS NOTED ARE ONLY AS AN EXAMPLE
    DENOTES JOISTS GIRDER DEPTH
14. VERIFY LOCATION AND SIZE OF ALL SPRINKLER MAINS AND SWAY BRACE LOADS WITH SPRINKLER DRAWINGS.
15. VERIFY LOCATION AND WEIGHTS OF ALL EXHAUST FANS AND A.C. UNITS ON THE ROOF WITH MECHANICAL DRAWINGS.
16. VERIFY SIZE, WEIGHT & ATTACHMENT POINTS OF CONVEYORS CATWALK WITH THE MATERIAL HANDLING DRAWING.
17. LIVE LOAD DEFLECTION CRITERIA IS:
    L/180 FOR TOTAL LOAD } AT WAREHOUSE
    L/240 FOR LIVE LOAD }
    L/240 FOR TOTAL LOAD } AT OFFICE
    L/360 FOR LIVE LOAD }
18. ALL BAR JOISTS SHALL HAVE 5" BEARING SEAT
19. USE STANDARD SJI CAMBER WITH ±1/4" TOLERANCE.

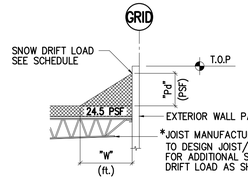


SNOW DRIFT LOAD AT RTU.		
MAX. " H "*	Pd (PSF)	W (ft.)
4'-0"	49.7 PSF	21'-6"
6'-0"	86.8 PSF	37'-0"

* INFORM STRUCTURAL ENGINEER IF "H" IS GREATER THAN 6'-0" FOR SPECIFIC DECK RECOMMENDATIONS

A **SNOW DRIFT LOAD AT MECH'L UNIT**

FOR MECH'L UNIT WIDTH GREATER THAN 15'-0" OR MECH'L UNITS LESS THAN 15'-0" APART.



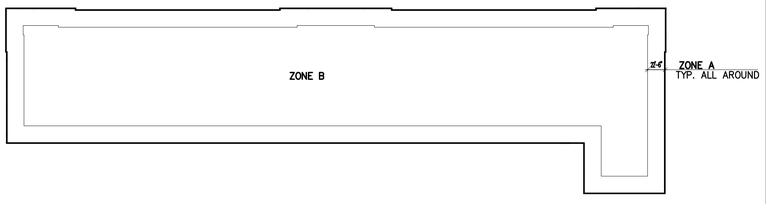
SNOW DRIFT LOAD			
GRID	MAXIMUM T.O.P.	Pd (PSF)	W (ft.)
A	42'-0"	63 PSF	13'-7"
D	41'-0"	63 PSF	13'-7"
E	39'-6"	72.5 PSF	16'-0"
"1" & "15"	43'-0"	77.5 PSF	33'-6"

B **SNOW DRIFT LOAD AT PARAPET**

ROOF METAL DECK GAUGE AND ATTACHMENT SCHEDULE

AREA	(*) DECK GAGE	NO. OF HSN-24 HILTI PINS AT EACH SUPPORT (**)	SIDE LAP FASTENING EACH SHEET W/ VULCRAFT PUNCHLOCK TOOL	BOUNDARY ATTACHMENT WHERE DECK RUNS PARALLEL TO WALL	ALLOWABLE SHEAR (PLF)
I	22	4	VSC2 @ 24" O.C.	X-HSN-24 HILTI PINS @ 15"	768
II	22	7	VSC2 @ 12" O.C.	X-HSN-24 HILTI PINS @ 11"	1407
III	20	7	VSC2 @ 8" O.C.	X-HSN-24 HILTI PINS @ 6"	2223
IV	18	7	VSC2 @ 8" O.C.	X-HSN-24 HILTI PINS @ 6"	3085

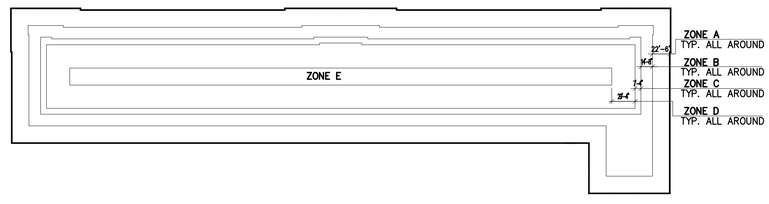
1. ROOF DECK USED IS VULCRAFT 1.5PLB-36 FACTORY PAINTED WHITE @ UNDERSIDE GALVANIZED METAL DECK. COMPLY WITH ALL REQUIREMENTS AS STATED IN EVALUATION REPORT ESR-2776 OR APPROVED EQUAL WITH YIELDING STRENGTH 80 KSI.
2. SHEET SIDE LAP ATTACHMENT WITH VERCO PUNCHLOK II TOOL AS SHOWN IN TABLE BELOW OR APPROVED EQUAL.
*3. DECK GAGE SHOWN IN SCHEDULE IS BASED ON TWO SPAN MIN. CONDITION. IF ONE SPAN IS USED, REPLACE 20 GA WITH 18 GA & REPLACE 22 GA WITH 20 GA.
4. PROVIDE BOUNDARY ATTACHMENT ALL AROUND, THE BUILDING, ALL AROUND OPENING. PROVIDE TWO ROWS OF BOUNDARY ATTACHMENT ALONG "1.8", & "1.D".
5. RIGID INSULATION ON TOP OF THE METAL DECK SHALL BE APPLIED AFTER COMPLETION OF METAL DECK ATTACHMENTS. AND INSPECTION BY THE BUILDING DEPARTMENT.



MEMBER	ZONE A	ZONE B
JOIST	13.7 PSF	9.6 PSF
GIRDER	4.8 PSF	4.8 PSF

A) LOADS DETERMINED IN ACCORDANCE WITH ASCE 7-16
B) THE ABOVE WIND IS 0.6W IN ASD.

ROOF WIND DOWNWARD PRESSURE | 2



MEMBER	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E
JOIST	-20.5 PSF	-13.4 PSF	-13.4 PSF	-7.5 PSF	-7.5 PSF
GIRDER	-7.6 PSF	-7.6 PSF	-2.6 PSF	-2.6 PSF	-0.1 PSF

FOR GIRDER WITH TRIBUTARY AREA LESS THAN 700 SFT, USE SAME PRESSURE AS JOISTS.

A) LOADS DETERMINED IN ACCORDANCE WITH ASCE 7-16
B) BASIC LOAD COMBINATION 0.6D+0.6W USED FOR ASD.
C) WIND LOADS CALCULATED USING ASCE 7-16 ANALYTICAL PROCEDURES.

ROOF WIND NET UPLIFT | 1

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HSA PROJECT NO.: 25-117
DRAWN BY: T.T./M.F.

7800 LOGISTICS W. JORDAN
GO INDUSTRIAL
4555 W 7800 S (BLDG.1) & 7888 Airport Road (BLDG.2).
WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
Issue Date
REVISIONS

SHEET TITLE:

ROOF LOADING DIAGRAM, GIRDERS & BAR JOIS SCHEDULE

S3.1
(BLDG.1)

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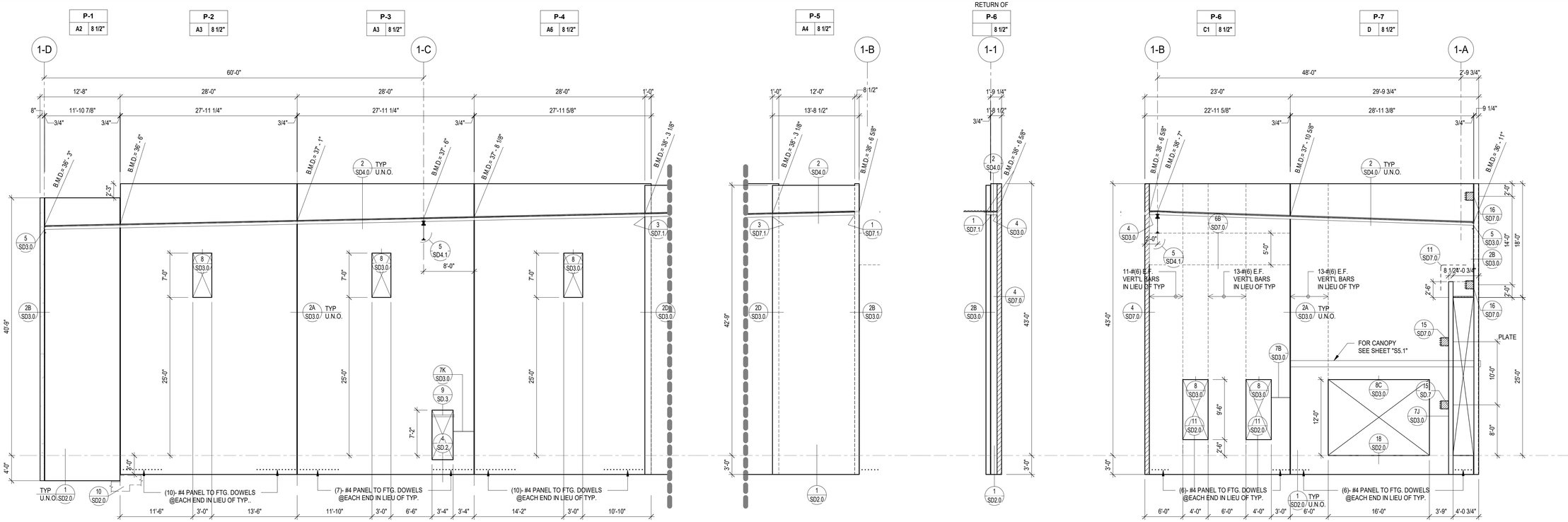
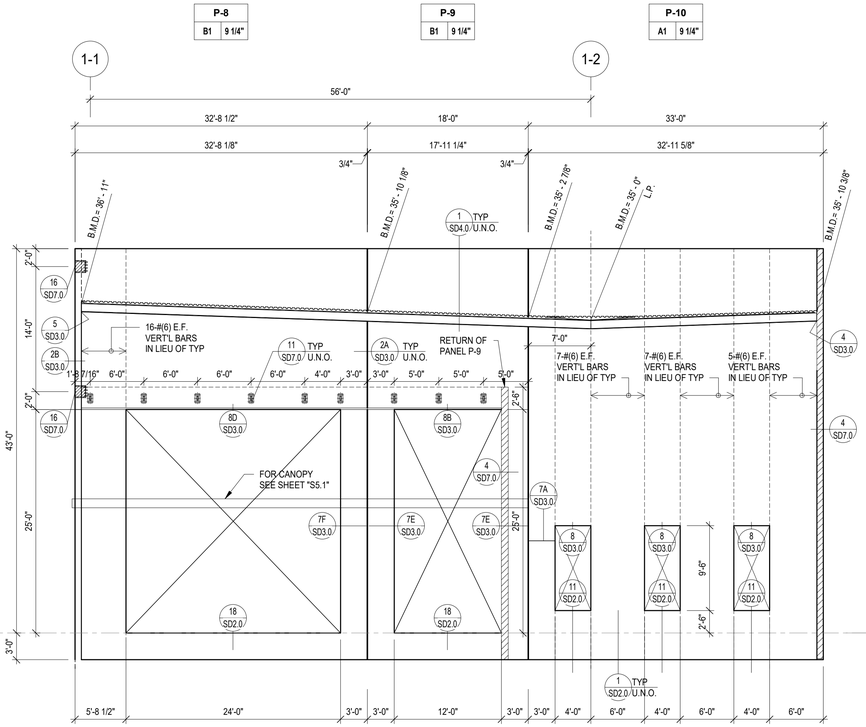


WEST PANEL ELEVATIONS ON LINE "1-1"

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



NORTH PANEL ELEVATIONS ON LINE "1-A"

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

NORTH PANEL ELEVATIONS @ ENTRY SOFFIT

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

PANEL NOTES:

1. FOR GENERAL NOTES, SEE SHEET "SD-0" & "SD-0.1".

   FOR TYPICAL PANEL NOTES AND TYPICAL PANEL REINFORCEMENT, SEE DETAIL 1/SD.3
2. B.M.D = DENOTES BOTTOM OF METAL DECK
3. FOR REVEALS AND TEXTURES SEE ARCHITECTURAL DRAWINGS.
4. ALL ROOF ELEVATIONS ARE TAKEN DIRECTLY FROM FINISH FLOOR RIGHT BELOW REFERENCE POINT.
5. DENOTES PANEL NUMBER
   DENOTES PANEL THICKNESS
   DENOTES PANEL TYPE FOR REINFORCEMENT
6. PANELS ARE VIEWED FROM INTERIOR.
7. FOR TYPICAL PANEL OPENING FOR DOWNSPOUT & OVERFLOW SCUPPER SEE DETAIL 13/SD.3
8. FOR TYPICAL LEDGER SPLICE AT HIGH POINT OR LOW POINT, SEE DETAIL 13/SD.6

NOTE:

1. CONTRACTOR SHALL VERIFY BOTTOM OF THE PANEL WITH THE LATEST GRADING PLAN.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH THE LATEST ARCHITECTURAL & STRUCTURAL DRAWINGS BEFORE FORMING OF PRECAST CONCRETE PANELS.
3. CONTRACTOR TO COORDINATE LOCATION OF SPRINKLER MAIN RISER WITH FIRE PROTECTION DWGS. SEE DETAIL "9/SD-1".
4. CONTRACTOR TO COORDINATE LOCATION OF ELECTRICAL TRENCH WITH ELECTRICAL DWGS. SEE DETAIL "10/SD-1" FOR TYPICAL FOOTING BLOCK-OUT.
5. CONTRACTOR REFER TO DETAIL "11/SD-1" FOR OPENING OF FUTURE DOCK LEVELER.

NOTE:

CONTRACTOR TO COORDINATE LOCATION OF TORSION SPRING CENTER BRACKET ATTACHMENT WITH ARCH TO CLEAR THE OPENING/K.O.P.. ADJUST THE VERTICAL TRACKS AS NEEDED. THE CONTRACTOR WILL BE RESPONSIBLE FOR DOOR AND BRACKET ATTACHMENT TO CONCRETE WALL.

LEGENDS:

DENOTES FUTURE KNOCK-OUT PANEL

DENOTES THICKENED PIER FOR THICKNESS, SEE PANEL ELEV.

NOTE:

FOR EXACT DIMENSION/ LOCATION OF EMBEDDED PLATES, SEE CANOPY FRAMING PLAN AT SHEET "S-5.1"

NOTE:

CONTRACTOR TO PROVIDE SLEEVE AT ALL INTERIOR DRAINS THRU PANEL. COORDINATE LOCATIONS WITH ARCHITECT AND PLUMBING PLANS.

NOTE:

BOTTOM OF PANEL MAY NEED TO BE ADJUSTED PER LATEST CIVIL GRADING PLAN.

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REGISTERED PROFESSIONAL ENGINEER
RAFIK HENAIN
No. 15258
GEORGIA
EXPIRATION DATE: 12/31/2026

-HSA-
HSA & ASSOCIATES, INC.
CONSULTING STRUCTURAL ENGINEERS
301 N. Lake Avenue, 5th floor
Pasadena, CA 91101
Tel: (626) 529-9911

HSA PROJECT NO. :25-117
DRAWN BY: T.T. / M.F.

7800 LOGISTICS W. JORDAN
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4555 W 7800 S (BLDG.1) & 7888 Airport Road (BLDG.2).
WEST JORDAN, UT 84088

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PANEL ELEVATIONS

S4.1
(BLDG.1)

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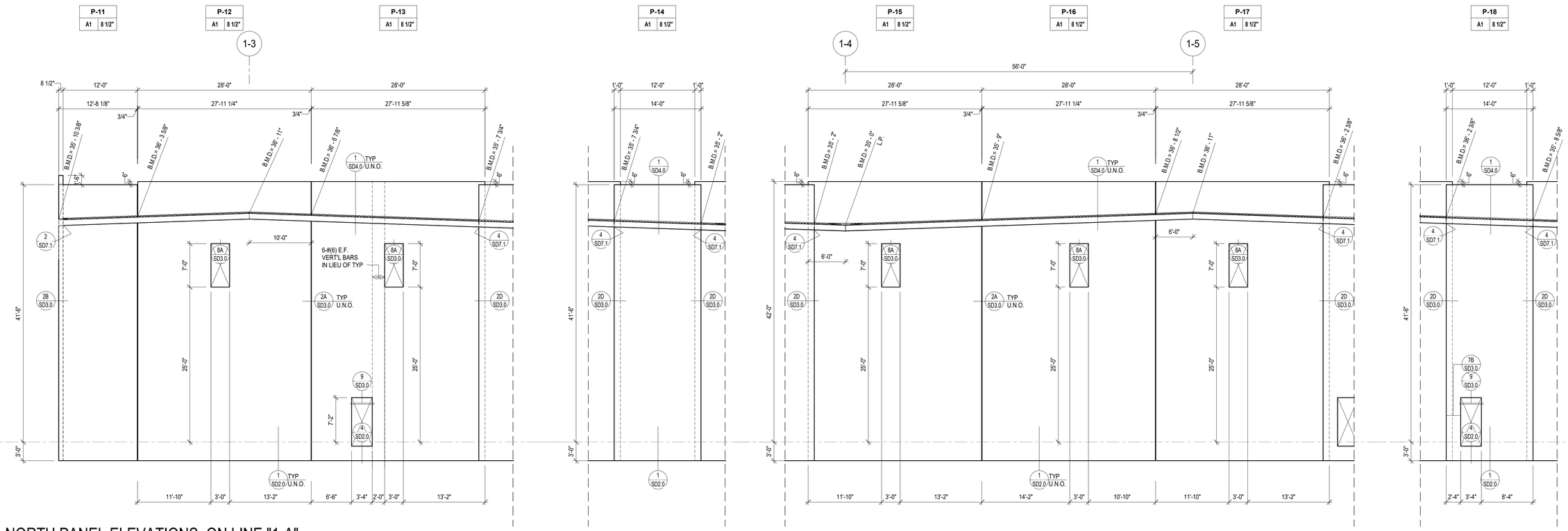
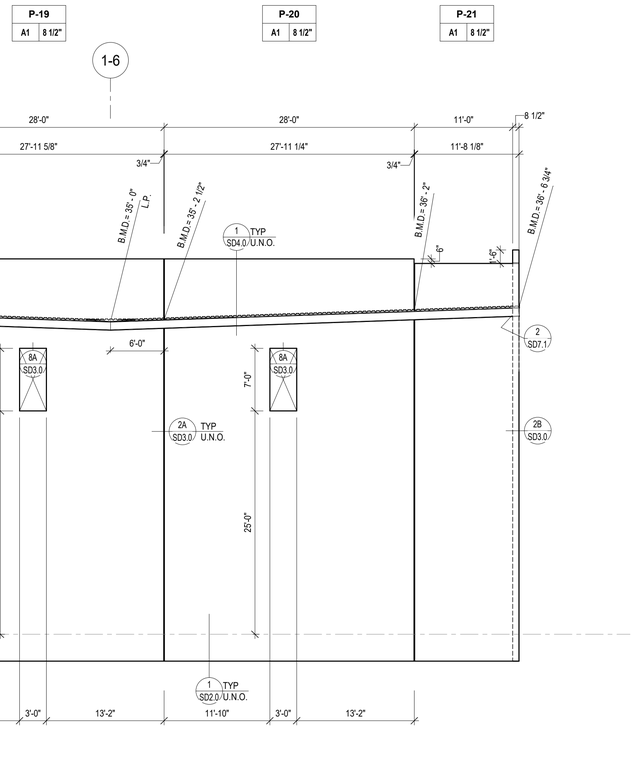


NORTH PANEL ELEVATIONS ON LINE "1-A"

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



NORTH PANEL ELEVATIONS ON LINE "1-A"

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

NOTE:

1. FOR TYPICAL PANEL NOTES AND LEGEND, REFER TO SHEET "S4.1".

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PANEL ELEVATIONS

S4.2
(BLDG.1)

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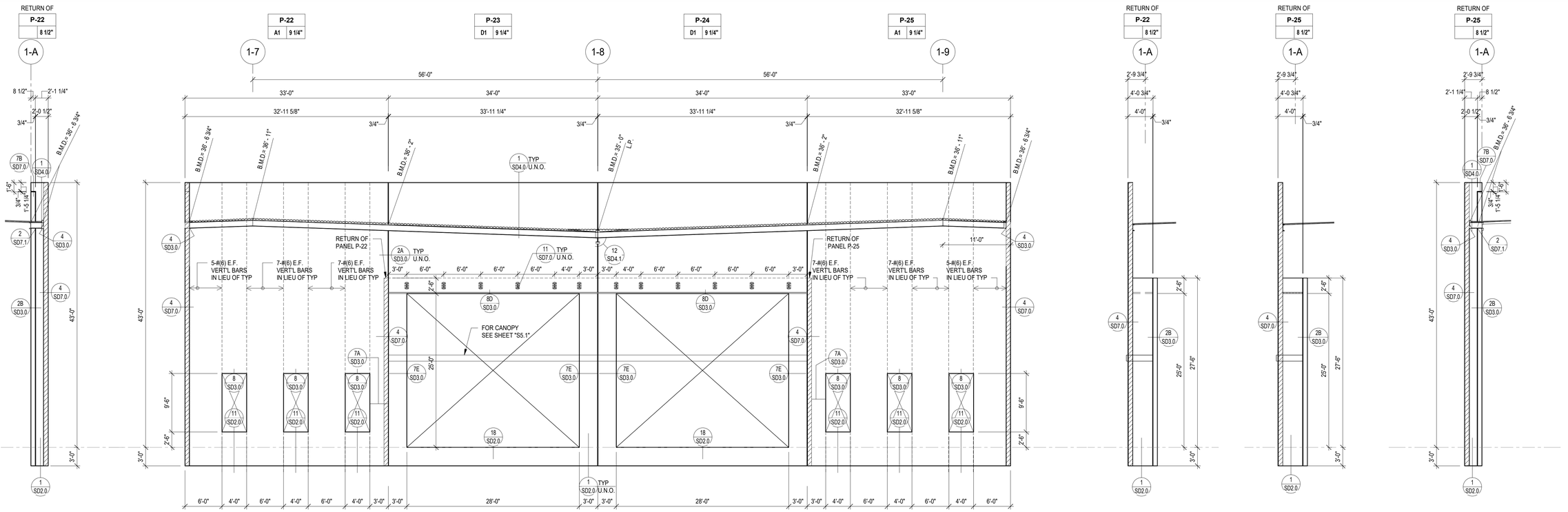
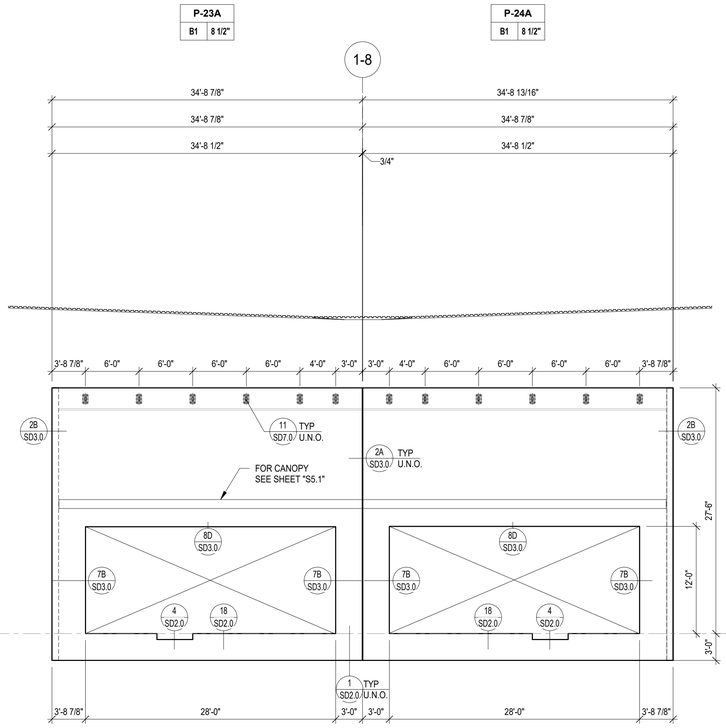


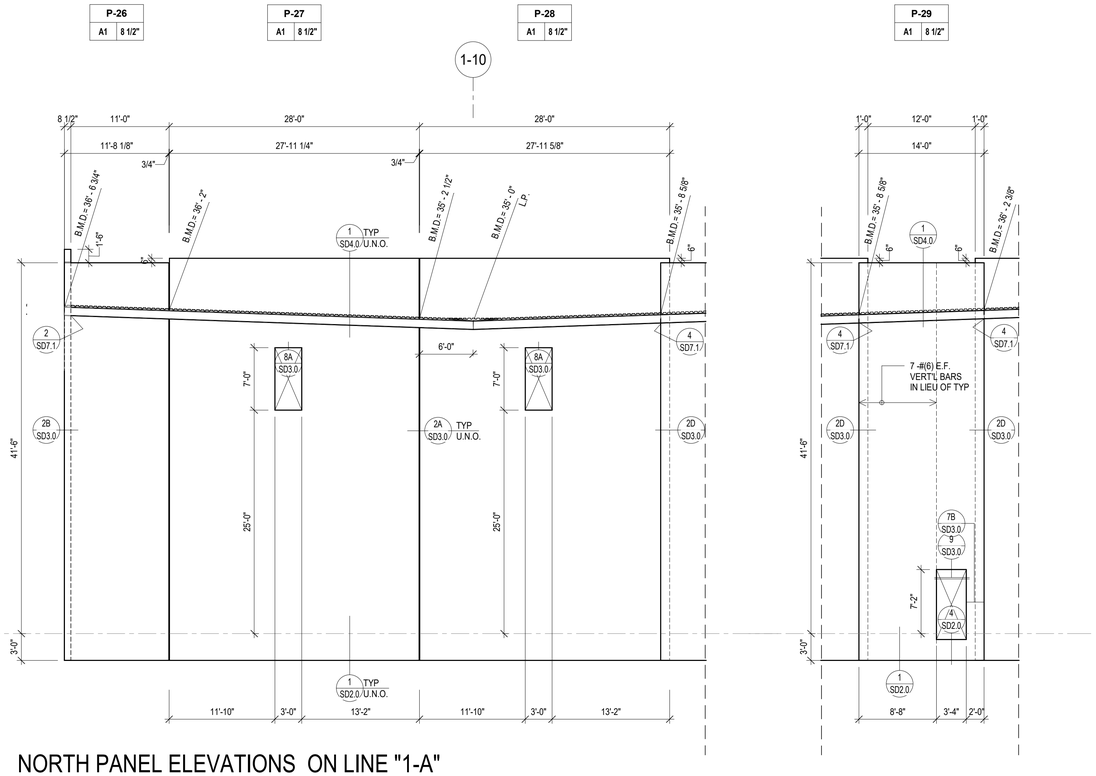
NORTH PANEL ELEVATIONS ON LINE "1-A"

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



NORTH PANEL ELEVATIONS @ ENTRY SOFFIT

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



NORTH PANEL ELEVATIONS ON LINE "1-A"

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

NOTE:

1. FOR TYPICAL PANEL NOTES AND LEGEND, REFER TO SHEET "S4.1".

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PANEL ELEVATIONS

S4.3
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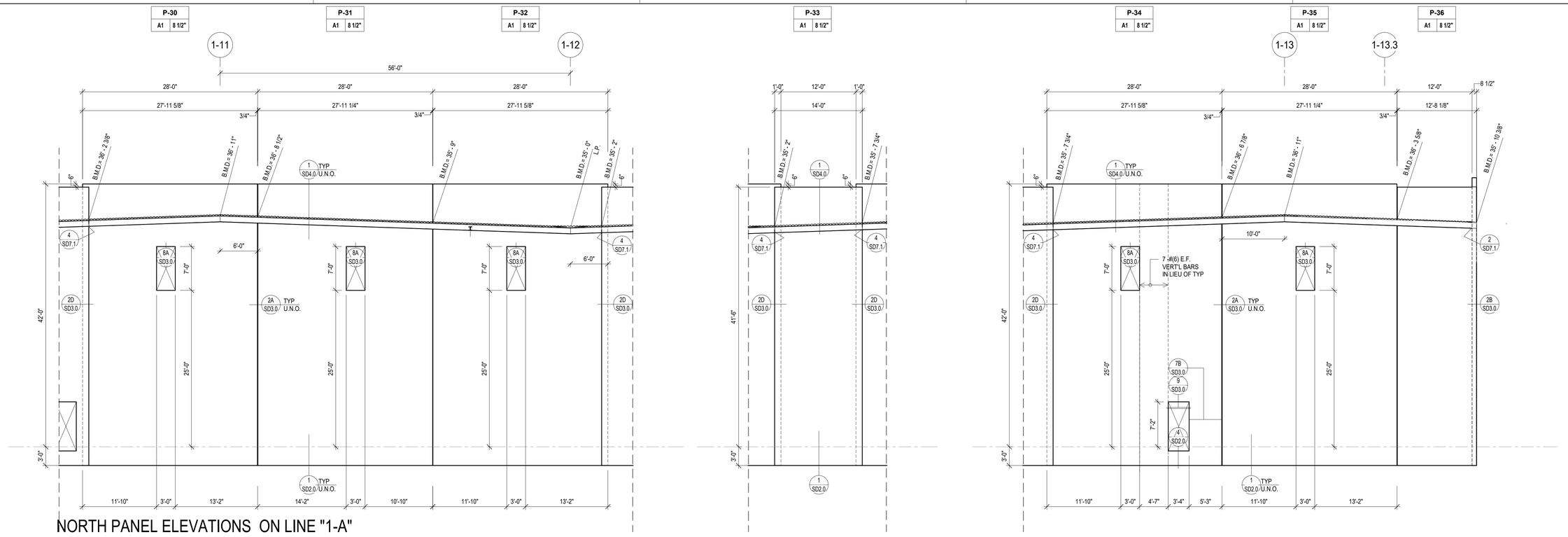

NORTH PANEL ELEVATIONS ON LINE "1-A"

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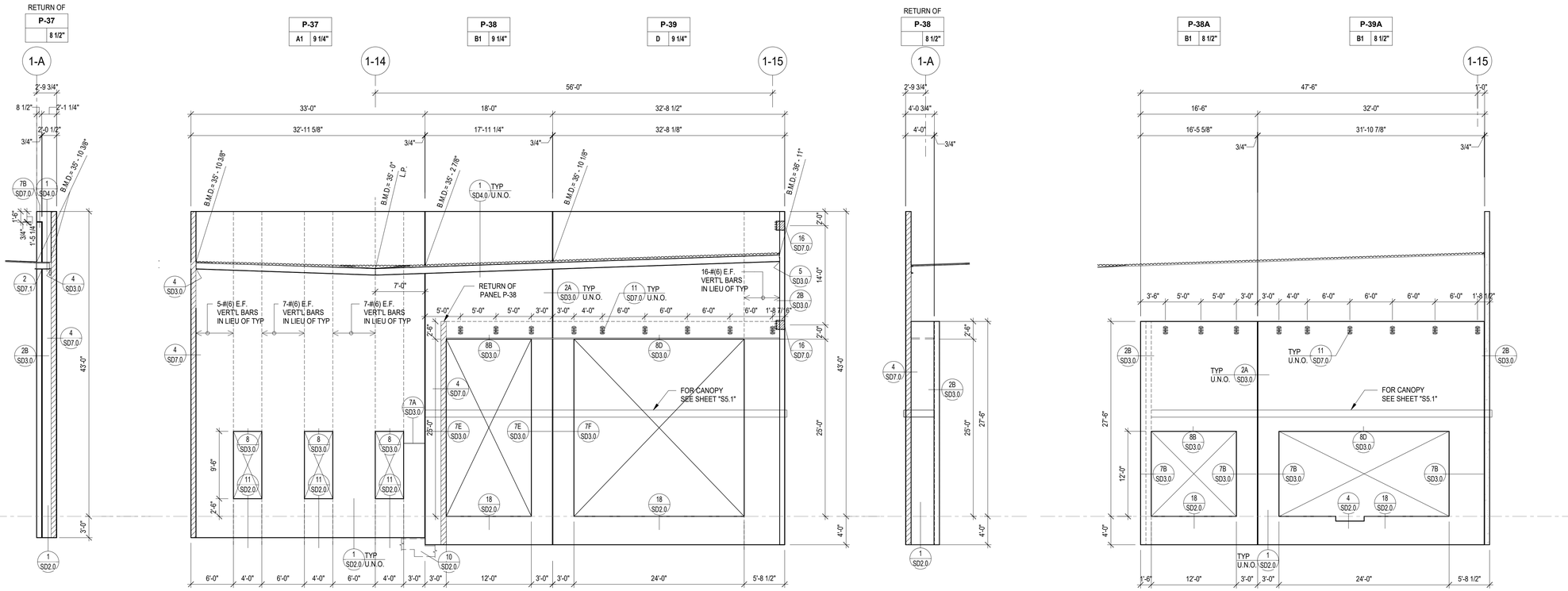

NORTH PANEL ELEVATIONS ON LINE "1-A"

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

NORTH PANEL ELEVATIONS @ ENTRY SOFFIT

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

NOTE:

1. FOR TYPICAL PANEL NOTES AND LEGEND, REFER TO SHEET "S4.1".

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PANEL ELEVATIONS

S4.4
(BLDG.1)

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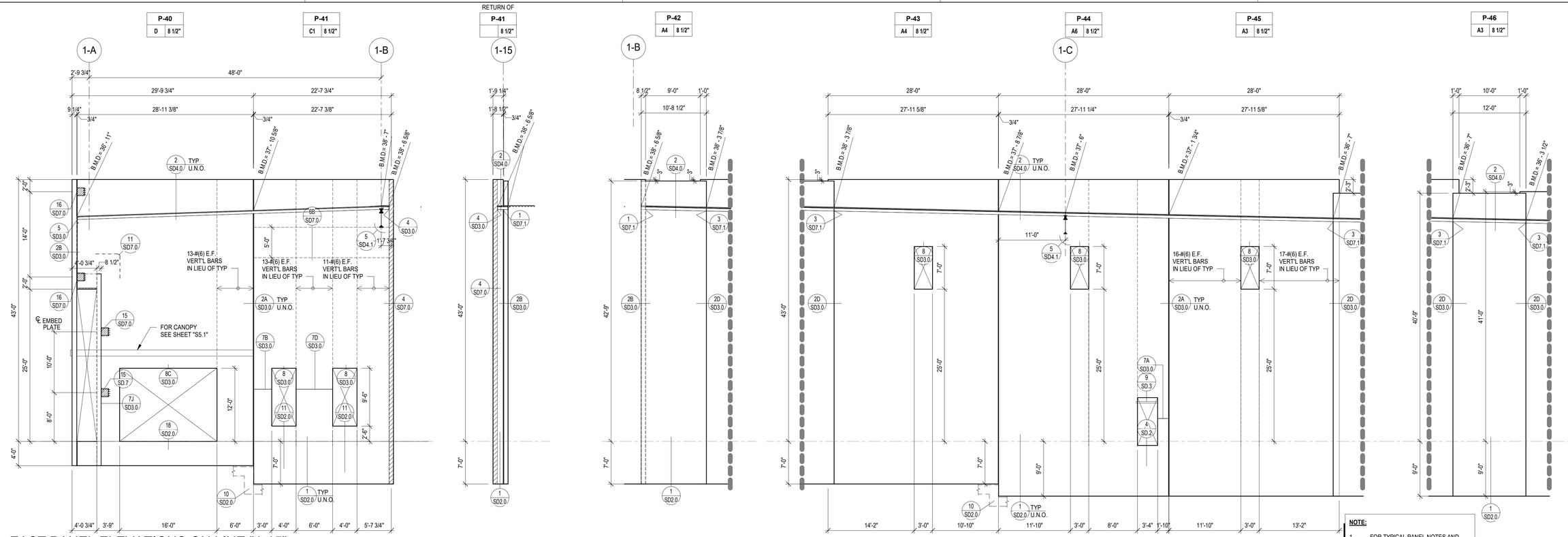
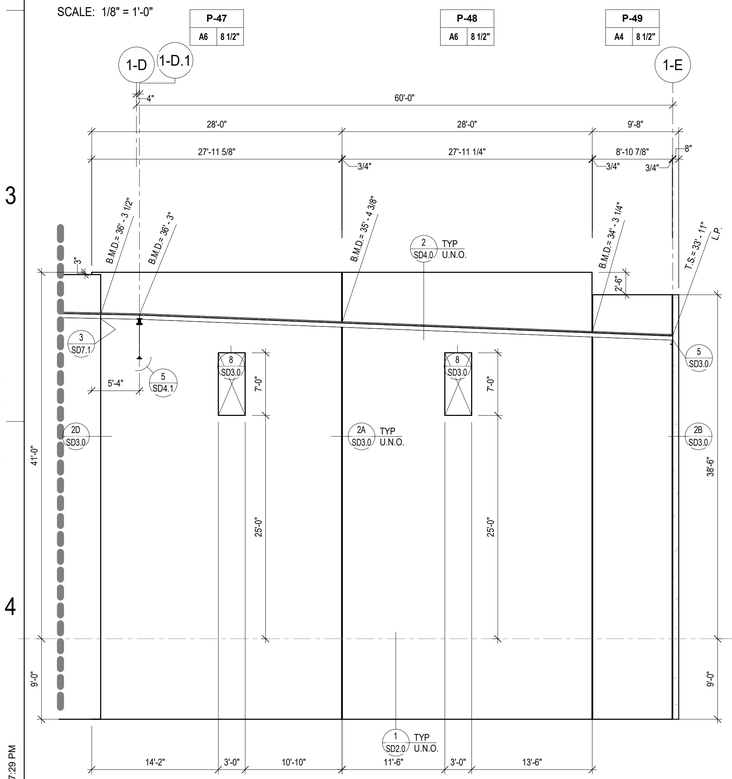


NOTE:

1. FOR TYPICAL PANEL NOTES AND LEGEND, REFER TO SHEET "S4.1".

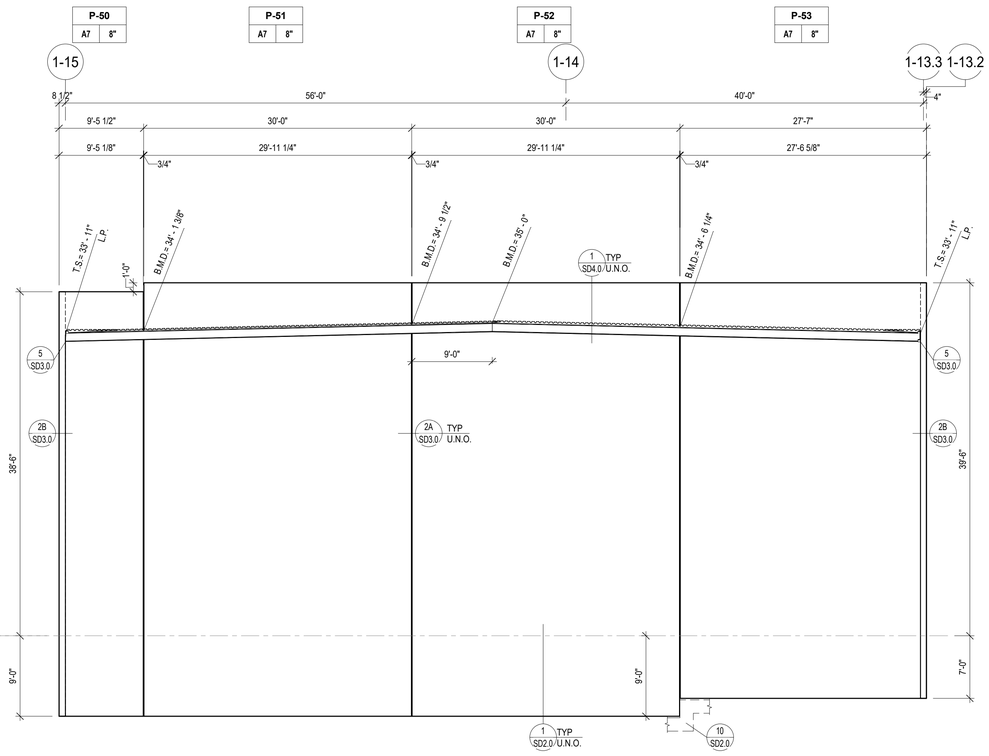
EAST PANEL ELEVATIONS ON LINE "1-15"

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



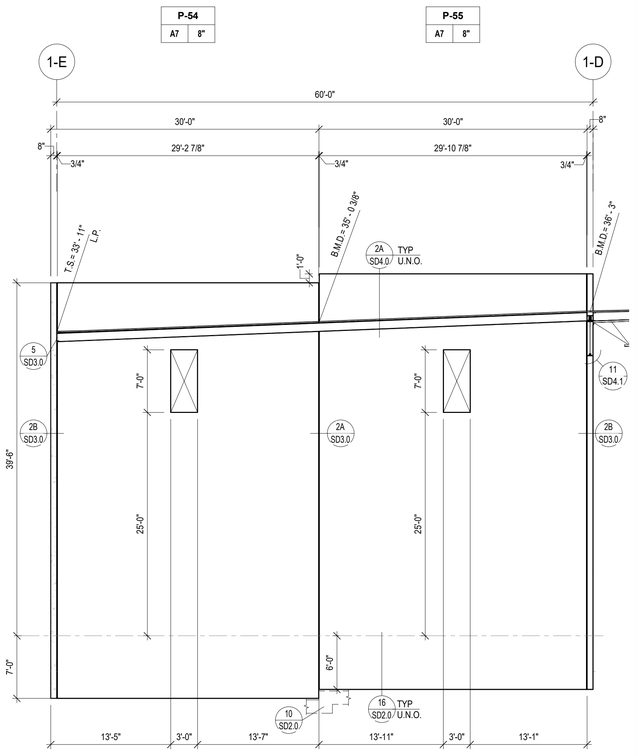
EAST PANEL ELEVATIONS ON LINE "1-15"

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



SOUTH PANEL ELEVATION AT GRIDLINE "1-E"

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



EAST PANEL ELEVATIONS ON LINE "1-13.2"

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

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PANEL ELEVATIONS

S4.5
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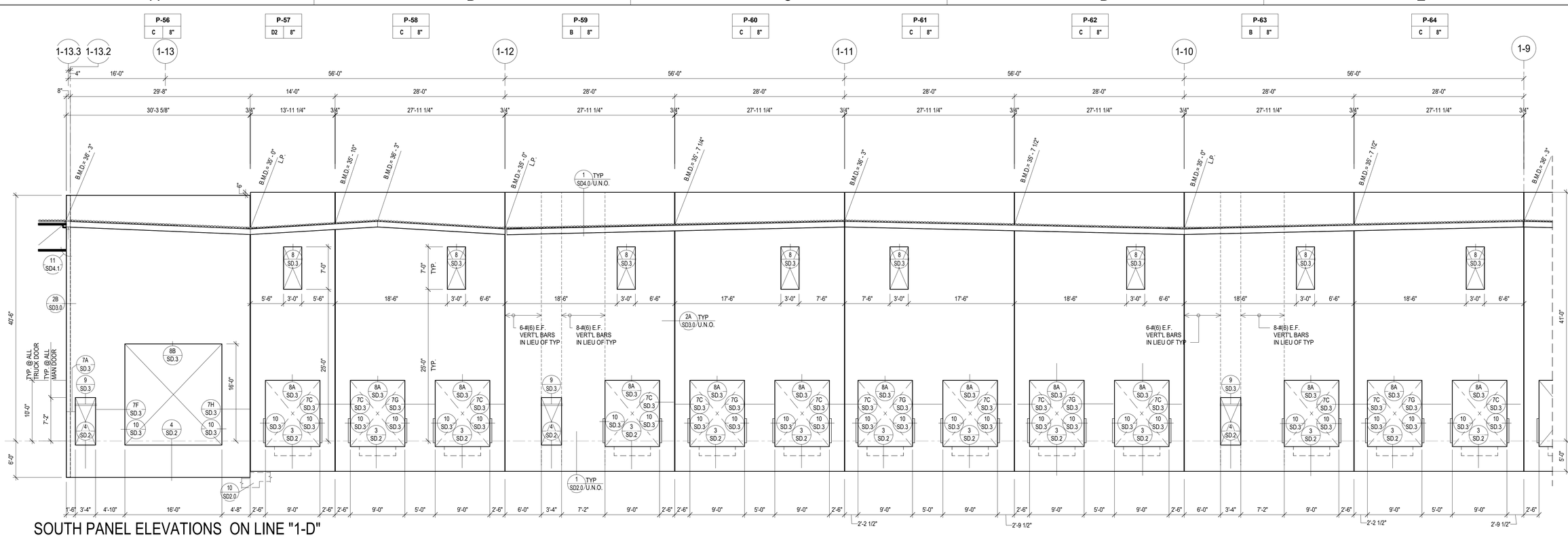
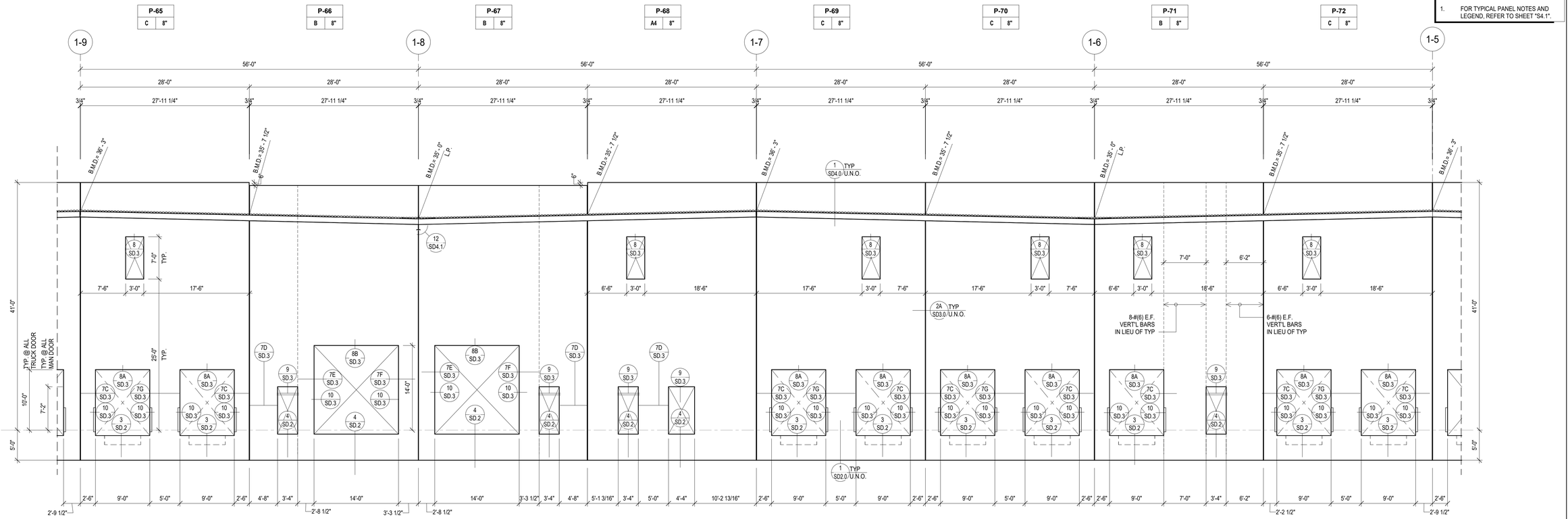


SOUTH PANEL ELEVATIONS ON LINE "1-D"

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

NOTE:

1. FOR TYPICAL PANEL NOTES AND LEGEND, REFER TO SHEET "S4.1".



SOUTH PANEL ELEVATIONS ON LINE "1-D"

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

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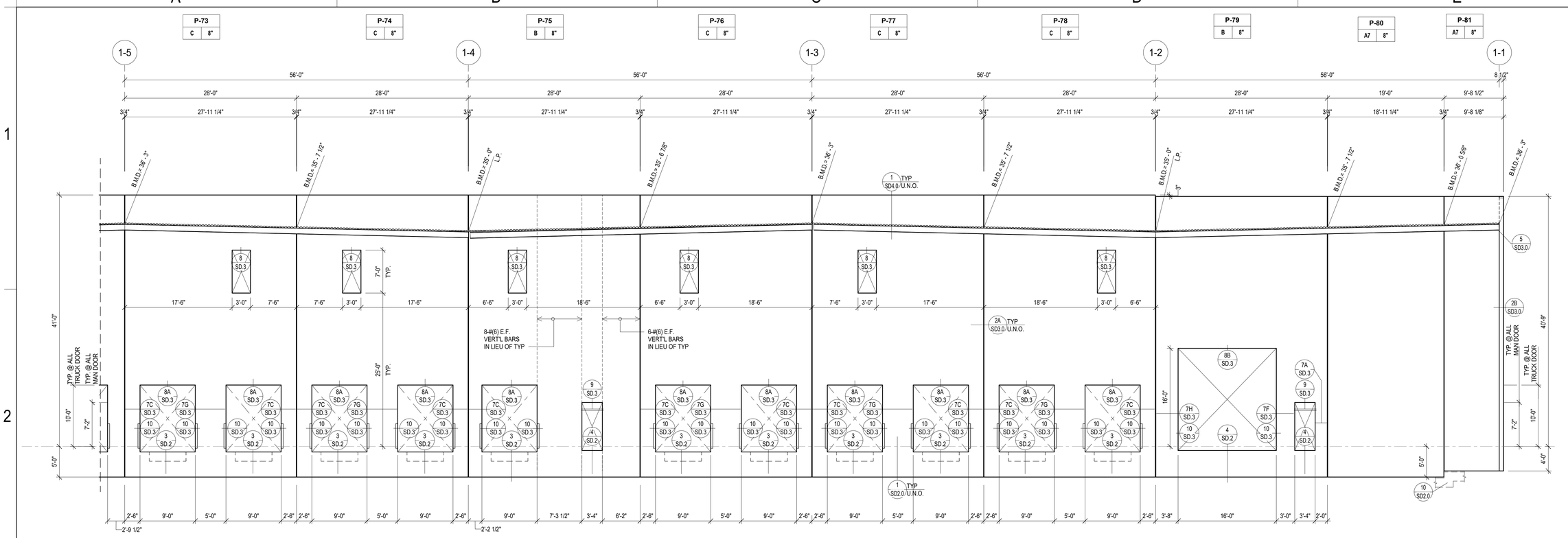
PANEL ELEVATIONS

S4.6
(BLDG.1)



SOUTH PANEL ELEVATIONS ON LINE "1-D"

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

NOTE:

1. FOR TYPICAL PANEL NOTES AND LEGEND, REFER TO SHEET "S4.1".

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DRAWN BY: T.T./ M.F.

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PANEL ELEVATIONS

S4.7
(BLDG.1)

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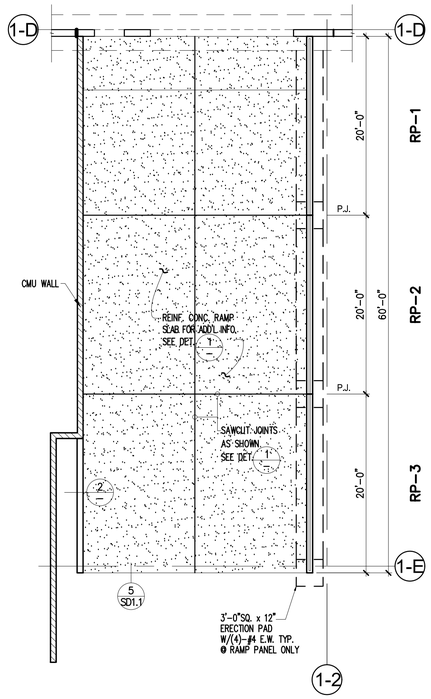
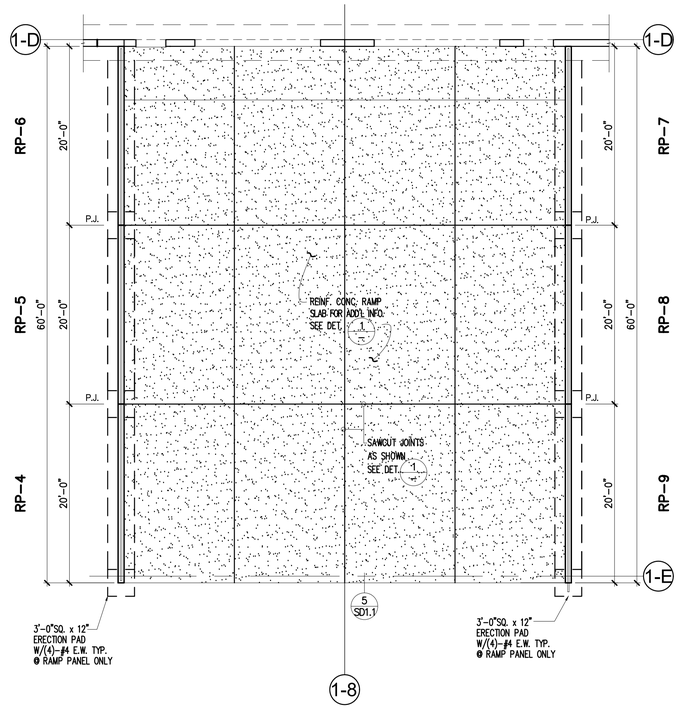
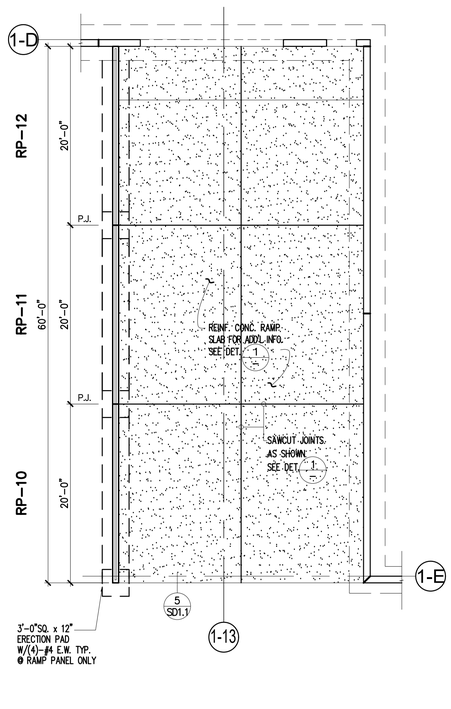


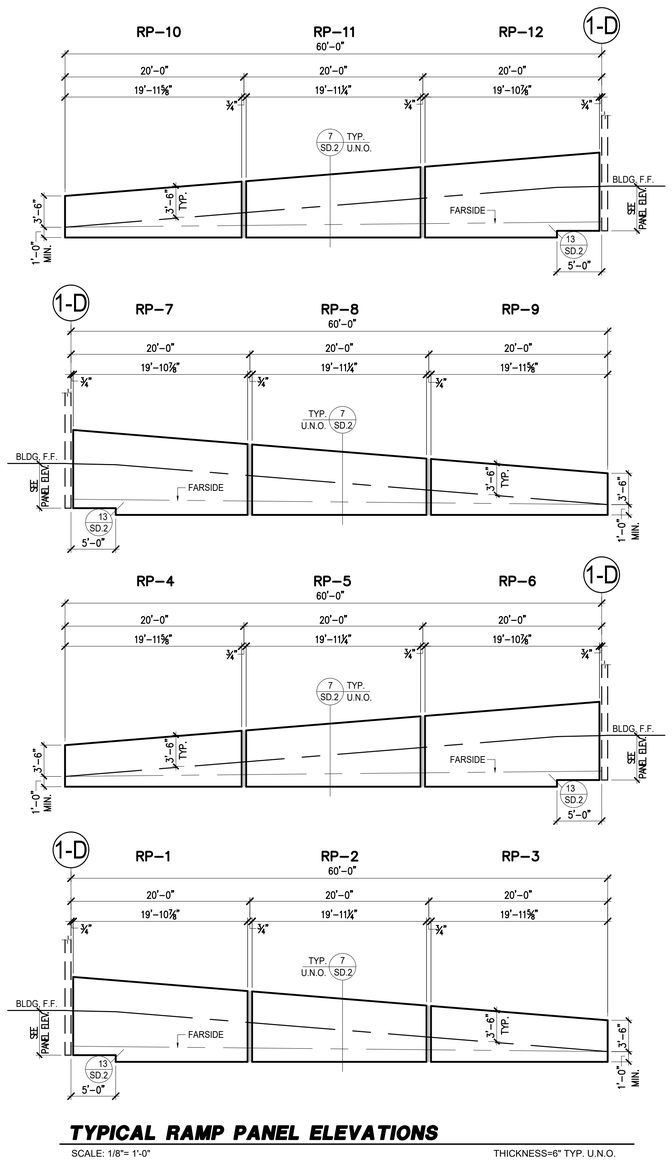
RAMP PANEL PLAN (A)
SCALE: 1/8"= 1'-0"



RAMP PANEL PLAN (B)
SCALE: 1/8"= 1'-0"



RAMP PANEL PLAN (C)
SCALE: 1/8"= 1'-0"

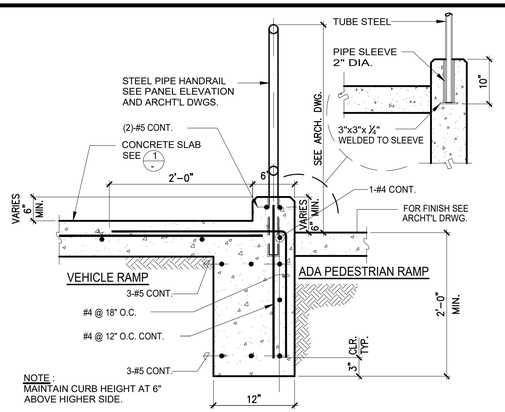


TYPICAL RAMP PANEL ELEVATIONS
SCALE: 1/8"= 1'-0"

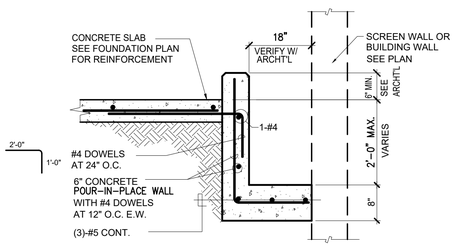
THICKNESS=6" TYP. U.N.O.

NOTES:

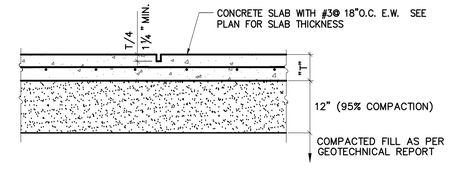
1. CONTRACTOR SHALL VERIFY BOTTOM OF THE PANEL WITH THE LATEST GRADING PLAN.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH THE LATEST ARCHITECTURAL , STRUCTURAL & MECH. DRAWINGS BEFORE FORMING OF PRECAST CONCRETE PANEL.



DETAIL 3



SLOT FOR GATE IN SLAB 2



CONTROL JOINT AT RAMP SLAB 1

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PROFESSIONAL STRUCTURAL ENGINEER
No. 9341368
RAFIK NEFAAT GERGES
STATE OF UTAH

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CONSTRUCTION DOCUMENTS
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SHEET TITLE:
RAMP PLANS AND DETAILS

S4.8
(BLDG.1)

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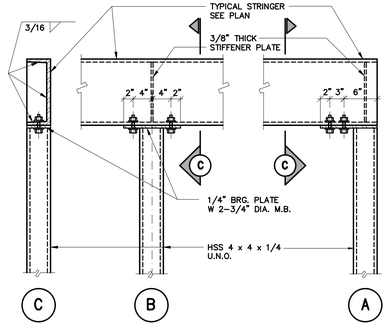
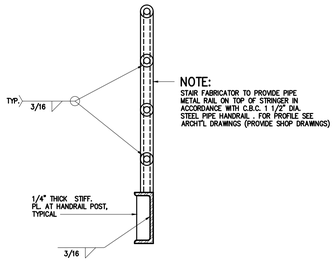


HSS POST AT STRINGER | 11



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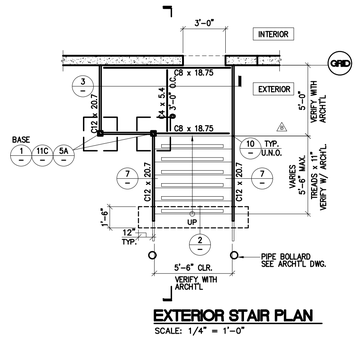
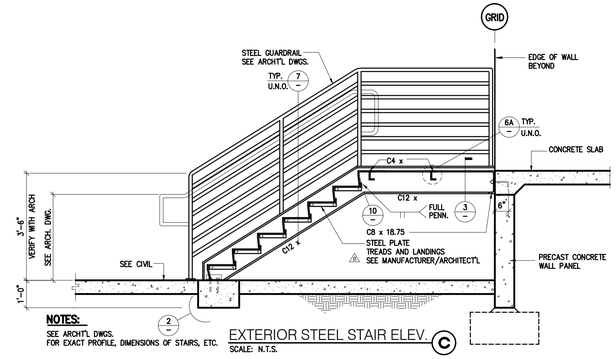


EXTERIOR STAIR PLAN

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



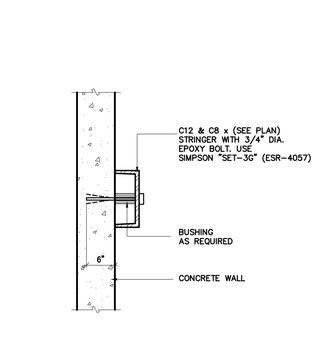
NOTES:

SEE ARCHT'L DWGS.
FOR EXACT PROFILE, DIMENSIONS OF STAIRS, ETC.

EXTERIOR STEEL STAIR ELEV. C

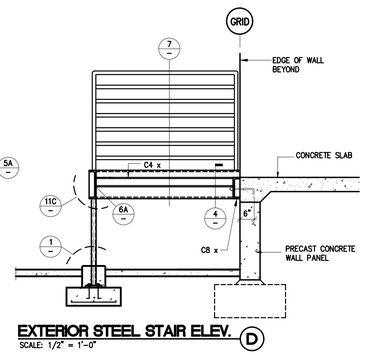
SCALE: N.T.S.

STEEL STAIR PLAN AND ELEVATION | A



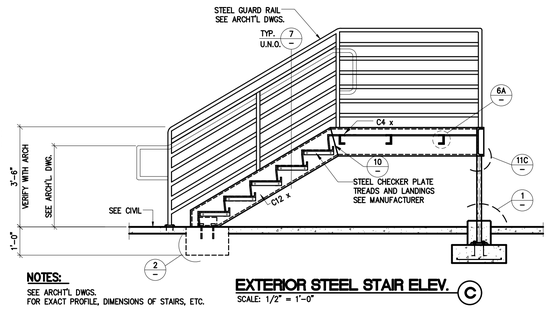
EXTERIOR STAIR PLAN

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



EXTERIOR STEEL STAIR ELEV. D

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



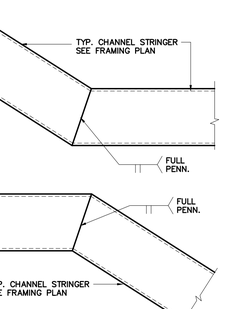
NOTES:

SEE ARCHT'L DWGS.
FOR EXACT PROFILE, DIMENSIONS OF STAIRS, ETC.

EXTERIOR STEEL STAIR ELEV. C

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

STEEL STAIR PLAN AND ELEVATION | B

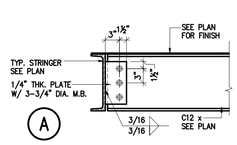


STEEL STAIR DETAIL | 8

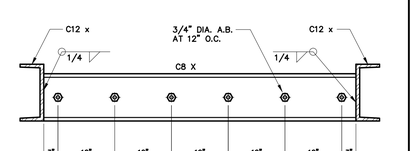
STAIR NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR STAIR DIMENSIONS, TREADS, RISERS AND DETAILS UNLESS NOTED OTHERWISE.
2. STAIR TREADS AND LANDINGS SHALL BE MADE OF FORMED STEEL CHECKER PLATES. SEE MANUFACTURER'S DETAIL.
3. STAIRS SHALL BE DESIGN FOR 100 PSF, LIVE LOAD. STAIR DIMENSIONS, TREADS, RISERS
4. DETAILS OF STAIR ARE FOR GENERAL DESIGN INFORMATION STEEL FABRICATOR TO PROVIDE DESIGN BY AN ENGINEER FOR THOSE STAIRS.
5. VERIFY ALL DIMENSIONS, PROFILE OF STAIR STEPS WITH ARCHITECTURAL DRAWINGS.

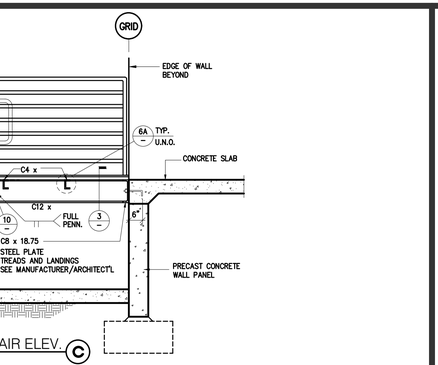
NOTES | 9



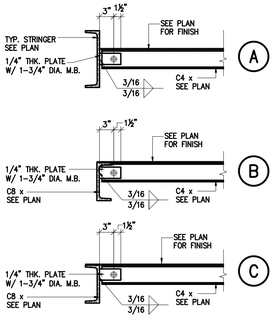
STEEL STAIR FRAMING CONN. | 5



STAIR FRAMING DETAIL | 3

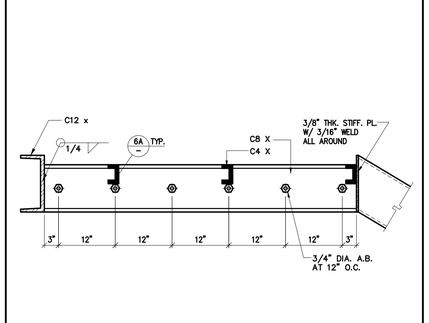


HSS COLUMN TO FOOTING | 1

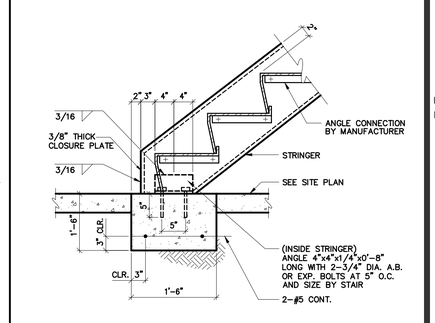


TYPICAL STRINGER | 10

TYP. CHANNEL CONN. DETAILS | 6



STAIR FRAMING DETAIL | 4



STRINGER TO FOOTING | 2

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CONSTRUCTION DOCUMENTS
02/27/26
Issue Date
REVISIONS

SHEET TITLE:

EXTERIOR STEEL STAIR PLAN AND ELEVATION

S4.9
(BLDG.1)

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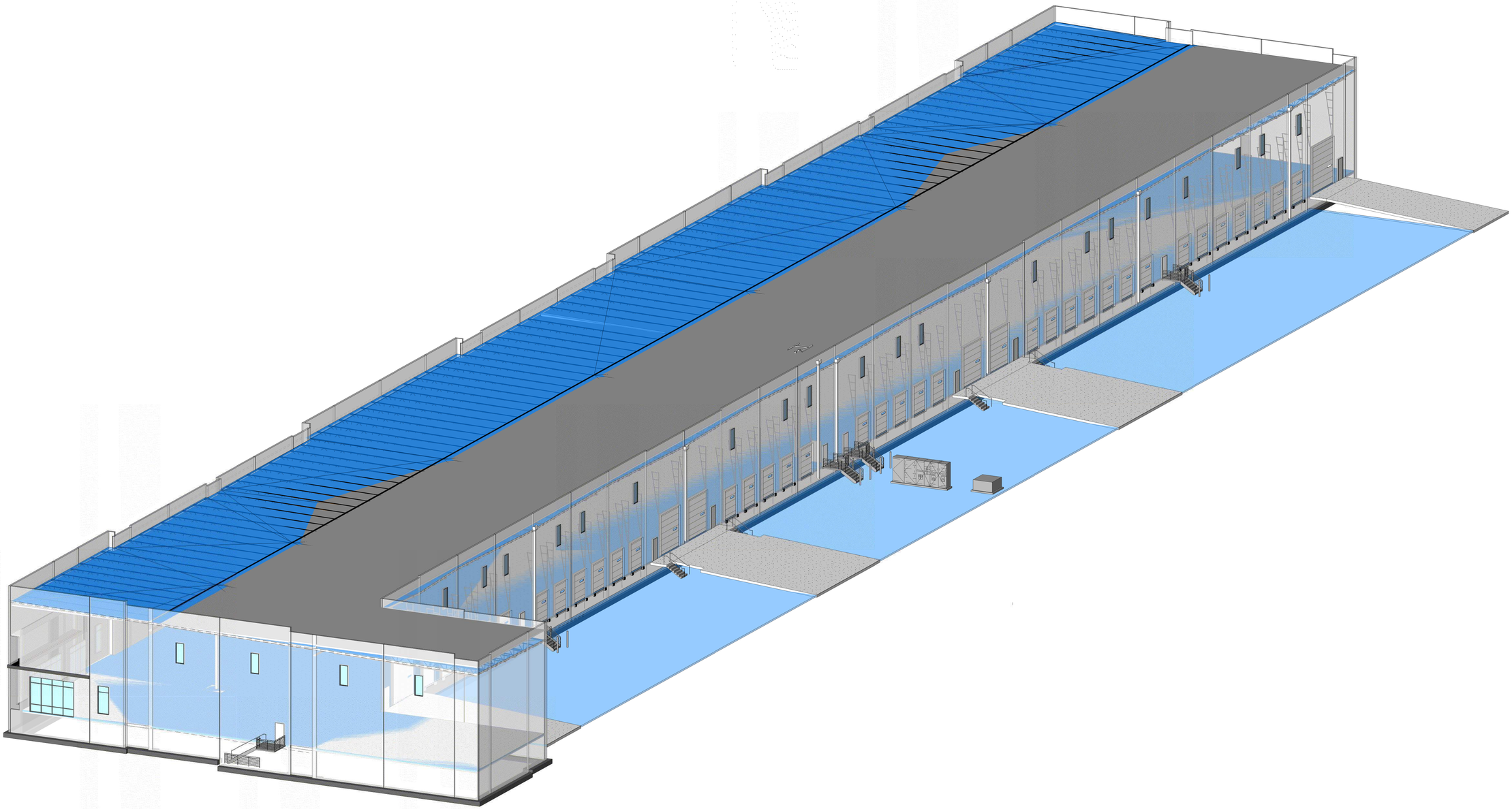

3D VIEW

SCALE:

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3D VIEW - BLDG.2

S0.0A
(BLDG.2)

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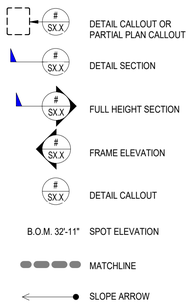
SYMBOLS



ABBREVIATIONS

	@	AT
	&	AND
	CL	CENTERLINE
	Ø	DIAMETER
	PL	PLATE
	±	PLUS/MINUS
A	A.B.	ANCHOR BOLT
	ABV.	ABOVE
	ACI	AMERIAN CONCRTE INSTITUTE
	ADD'L	ADDITIONAL
	AISC	AMERICAN INSTITUTE OF STEEL
	ALT.	ALTERNATE
	APPROX.	APPROXIMATE
	ARCH.	ARCHITECT, ARCHITECTURAL
	ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
	ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
	AVG.	AVERAGE
	AWS	AMERICAN WELDING SOCIETY
B	B/O	BOTTOM OF
	B/W	BETWEEN
	BLDG	BUILDING
	BLKG	BLOCKING
	BM	BEAM
	B.M.D.	BOTTOM OF METAL DECK
	BOTT.	BOTTOM
	B.P.	BOTTOM OF PANEL/BASE PLATE
	BRDG.	BRIDGE, BRIDGING
	BRG.	BEARING
	BT.	BENT
C	C	CHANNEL
	C/C	CENTER TO CENTER
	CAP	CAPACITY
	C.I.P.	CAST-IN-PLACE
	C.J.	CONTROL JOINT
	CLR.	CLEAR
	CMU	CONCRETE MASONRY UNIT
	COEF	COEFFICIENT
	COL.	COLUMN
	CONC.	CONCRETE
	CONN.	CONNECTION
	CONSTR.	CONSTRUCTION
	CONT.	CONTINUOUS, CONTINUE
	CORR.	CORRIDOR
	CTR.	CENTER
	CU. YD.	CUBIC YARD
D	D	DEPTH
	DBA	DEFORMED BAR ANCHOR
	DBL.	DOUBLE
	DEG.	DEGREE
	DEMO	DEMOLITION
	DEPT.	DEPARTMENT
	DET.	DETAIL
	DIA.	DIAMETER
	DIAG.	DIAGONAL
	DIM.	DIMENSION
	DL	DEAD LOAD
	DWG(S)	DRAWING(S)
	DWL.	DOWEL
E	EA.	EACH
	E.B.	EXPANSION BOLT
	ECC	ECCENTRIC
	E.E.	EACH END
	E.F.	EACH FACE
	EIFS	EXTERIOR INSULATION AND FINISH
	E.J.	EXPANSION JOINT
	EL.	ELEVATION
	ELEV.	ELEVATOR OR ELEVATION
	ENG.	ENGINEER
	E.O.P.	EDGE OF CONCRETE PANEL
	E.O.R.	ENGINEER OF RECORD
	EQ.	EQUAL
	EQUIP.	EQUIPMENT
	E.S.	EACH SIDE
	E.W.	EACH WAY
	EXP.	EXPANSION
	EXT.	EXTERIOR
F	FB	FLAT BAR
	F.F.	FINISH FLOOR
	F.G.	FINISH OF GRADE (FAR SIDE)
	FIN.	FINISH, FINISHED
	F.L.	FLOW LINE WALL ELEVATION
	FLR.	FLOOR
	FND.	FOUNDATION
	F.O.P.	FACE OF CONCRETE PANEL
	FRM.	FRAME
	F.S.	FINISH SURFACE ELEVATION
	FT	FOOT, FEET
	FTG	FOOTING
G	GA	GAUGE
	GALV.	GALVANIZED
	G.C.	GENERAL CONTRACTOR
	GEN.	GENERAL
	GEOR	GEO-TECHNICAL ENGINEER OF RECORD
	GR.	GRADE, GROUND
	GYP. BR.	GYPSUM BOARD
H	H	HEIGHT
	HC	HOLLOW CORE
	HDR.	HEADER
	HK.	HOOK
	HOR.	HORIZONTAL
	H.P.	HIGH POINT
	HR.	HOUR
	H.S.	HEADED STUD
	H.S.B.	HIGH STRENGTH BOLT
	HT.	HEIGHT
	HVAC	HEATING, VENTILATION & AIR

I	I.F.	INSIDE FACE
	IN	INCH
	INFO.	INFORMATION
	INT.	INTERIOR
	INV.	INVERT
	ISO	ISOMETRIC VIEW
J	JST.	JOIST
	JT.	JOINT
K	K	KIP, KILOPOUND (1000 POUNDS)
	KLF	KIPS PER LINEAR FOOT
	K.O.P.	KNOCK-OUT PANEL
L	L	ANGLE, LENGTH
	LAB	LABORATORY
	LB	POUND (WEIGHT)
	LEV.	LEVEL
	LIN.	LINEAR
	LL	LIVE LOAD
	LLH	LONG LEG HORIZONTAL
	LLV	LONG LEG VERTICAL
	LONG.	LONGITUDINAL
	L.P.	LOW POINT
	LVR.	LOUVER
	L.W.	LONG WAY
	LW(C)	LIGHT WEIGHT (CONCRETE)
M	M	BENDING MOMENT
	MAX.	MAXIMUM
	MB	MISCELLANEOUS REBAR
	MC	MOMENT CONNECTION
	MECH.	MECHANICAL
	M/E/P	MECHANICAL/ELECTRICAL/PLUMBING
	MEZZ.	MEZZANINE
	MFR.	MANUFACTURE, MANUFACTURER
	MIN	MINIMUM
	MISC.	MISCELLANEOUS
	MK.	MARK
	MTL	METAL
	MWRS	MAIN WIND-FORCE RESISTING SYSTEM
N	NO. OR #	NUMBER
	N.T.S.	NOT TO SCALE
	N.F.	NEAR FACE
	NW(C)	NORMAL WEIGHT (CONCRETE)
O	O.C.	ON CENTER
	O.F.	OUTSIDE FACE
	O.M.R.F.	ORDINARY MOMENT-RESISTANCE FRAME
	OPNG.	OPENING
	OPP.	OPPOSITE
P	PAR.	PARALLEL
	PE	PROFESSIONAL ENGINEER
	P.E.B.	PRE-ENGINEERED BUILDING
	P.E.J.	PREMOULDED EXPANSION JOINT
	PERP	PERPENDICULAR
	P.J.	PANEL JOINT
	P.J.F.	PREFORMED JOINT FILLER
	PL	PLATE
	PLF	POUNDS PER LINEAR FOOT
	PREFAB.	PREFABRICATED
	PSF	POUNDS PER SQUARE FOOT
	PSI	POUNDS PER SQUARE INCH
	PT	POST-TENSIONED, PRESSURE TREATED
Q	QTY	QUANTITY
R	R	RADIUS
	REBAR	REINFORCING BAR
	REF.	REFERENCE
	REINF.	REINFORCEMENT, REINFORCE
	REQ'D	REQUIRED
	RET.	RETAINING
S	S.C.	SLIP CRITICAL
	SCHED.	SCHEDULE
	SEC.	SECTION
	SF	SQUARE FOOT
	SHT.	SHEET
	SIM.	SIMILAR
	S.M.R.F.	SPECIAL MOMENT-RESISTANCE FRAME
	S.O.G.	SLAB ON GRADE
	SPECS	SPECIFICATIONS
	SQ.	SQUARE
	STD.	STANDARD
	STGR.	STAGGER
	STIFF.	STIFFENER
	STL.	STEEL
	STIR.	STIRRUP
	S.T.M.F.	SPECIAL TRUSS MOMENT FRAME
	STR.	STRUCTURAL, STRAIGHT
	SUB	SUBCONTRACTOR
	S.W.	SHEAR WALL
	SYM.	SYMMETRICAL
T	T/O	TOP OF
	T&B	TOP AND BOTTOM
	TEMP.	TEMPERATURE, TEMPORARY
	THK.	THICK, THICKNESS
	THRU	THROUGH
	T.I.	TENANT IMPROVEMENT
	TOL.	TOLERANCE
	T.O.C.	TOP OF CONCRETE
	T.P.	TOP OF PANEL ELEVATION
	T.S.	TOP OF SHEATHING
	TYP.	TYPICAL
U	U.N.O. OR UNO	UNLESS NOTED OTHERWISE
V	V	VELOCITY
	VERT.	VERTICAL
W	W	WIDTH, WIDE FLANGE
	W/	WITH
	W/O	WITHOUT
	W.P.	WORKING POINT
	WT.	WEIGHT
	W.W.F.	WELDED WIRE FABRIC

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S2.0A	ROOF FRAMING PALN- BLDG.2
S3.1	ROOF NAILING DIAGRAM GIRDER AND BAR JOIST SCHEDULE- BLDG.2
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S4.6A	PANEL ELEVATIONS- BLDG.2
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SD0.1	GENERAL NOTES
SD0.2	GENERAL NOTES
SD1.0	FOUNDATION DETAILS
SD1.1	FOUNDATION DETAILS
SD1.2	FOUNDATION DETAILS
SD2.0	PANEL TO FOOTING DETAILS
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SD5.0A	BRACED FRAME ELEVATION
SD5.1	BRACED FRAME DETAILS
SD5.2	BRACED FRAME DETAILS
SD7.0	MISCELLANEOUS DETAILS
SD7.1	MISCELLANEOUS DETAILS
SD8.0	METAL STUD DETAILS
SD9.0	T-BAR CEILING DETAILS

TOTAL SHEETS: 33

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SYMBOLS, ABBREVIATIONS, AND SHEET LIST - BLDG.2

S0.1A
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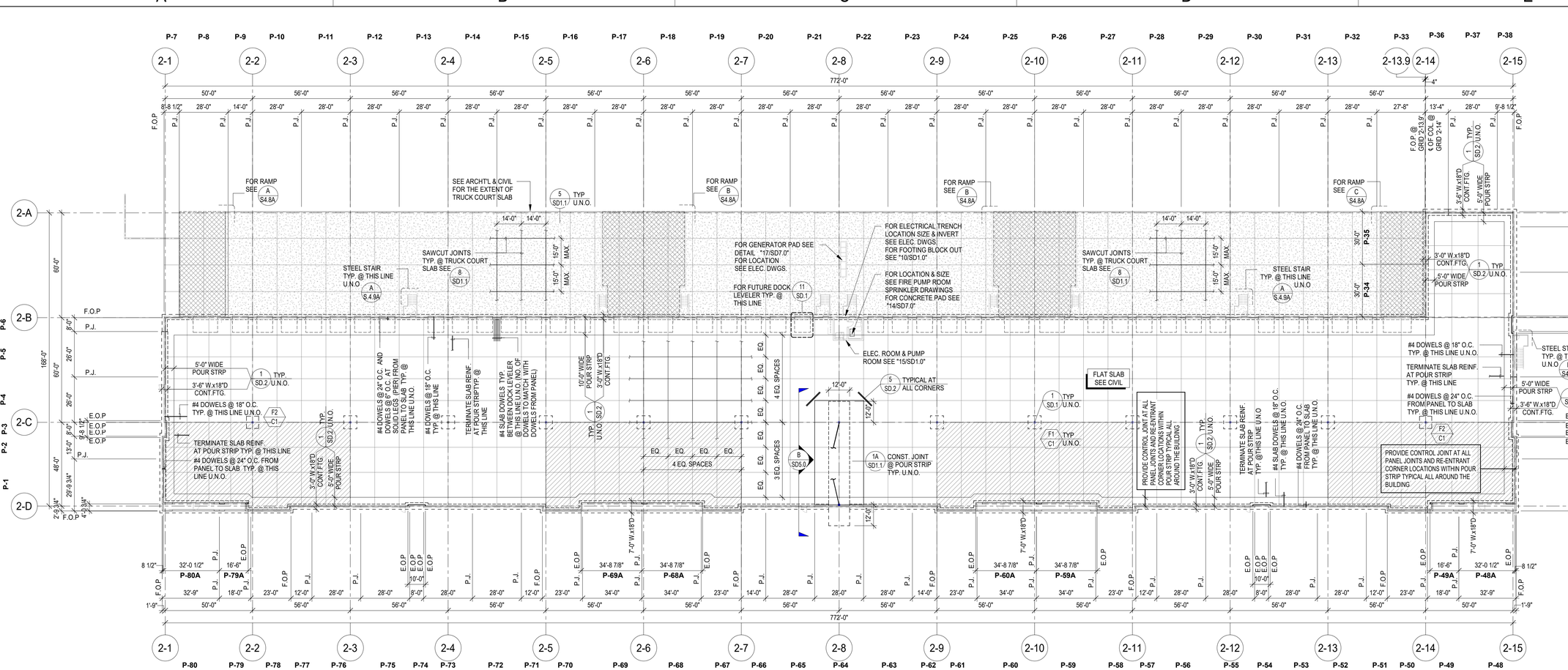

1 FOUNDATION PLAN

SCALE: 1" = 30'-0"

PLAN NORTH

TRUE NORTH

FOUNDATION NOTES:

1. FOR GENERAL NOTES SEE SD-0 SERIES SHEET
2. PERIMETER POUR STRIP TO BE POURED AFTER ALL PANELS HAVE BEEN ERECTED.
3. PROVIDE GROUT UNDER THE PANELS FOR THE FULL LENGTH OF THE FOOTING BEFORE PANELS HAVE BEEN ERECTED. AS AN ALTERNATE FOR CONTINUOUS GROUT, USE 18" SQ. GROUT PADS LOCATED AT 6'-0" O.C. MAX., 3'-0" FROM PANEL JOINT, AND AT EACH SIDE OF PANEL OPENING. THEN GROUT FULL LENGTH OF THE PANEL AFTER PANELS ARE ERECTED. SEE DETAIL "19/SD-2 ".
4. SEE ARCHITECTURAL, ELECTRICAL, PLUMBING MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF SLAB DEPRESSION AND OPENINGS REQUIRED FOR DUCTS, PIPES SLEEVES, ELECTRICAL CONDUITS AND OTHER EMBEDDED IN CONCRETE, UNLESS NOTED OTHERWISE.
5. F.O.P. = DENOTES FACE OF CONCRETE PANEL
   E.O.P. = DENOTES EDGE OF CONCRETE PANEL
   P.J. = DENOTES PANEL JOINTS.
   K.O.P. = DENOTES KNOCK OUT PANEL
6. CONTRACTOR SHALL VERIFY BOTTOM OF PANEL WITH THE LATEST GRADING PLAN.
7. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH THE LATEST ARCHITECTURAL AND STRUCTURAL DRAWINGS BEFORE FORMING OF PRECAST CONCRETE PANELS.
8. CONTRACTOR TO COORDINATE LOCATION OF SPRINKLER MAIN RISER W/FIRE PROTECTION DWG'S. SEE DETAIL " 9/SD1.0 ".
9. CONTRACTOR TO COORDINATE LOCATION OF ELECTRICAL TRENCH W/ELECTRICAL DWG'S. SEE DETAIL " 10/SD1.0 " FOR TYPICAL FOOTING BLOCK-OUT.
10. FOR FINISH FLOOR ELEVATION SEE CIVIL DRAWING.
11. PROVIDE SURVEY STAKES PRIOR TO FOUNDATION INSPECTION TO VERIFY LOT LINES.
12. CONTRACTOR REFER TO DETAIL " 11/SD1.0" FOR SAW-CUT OPENING OF FUTURE DOCK LEVELER.
13. CONTRACTOR TO BE RESPONSIBLE FOR DAMAGE TO SLAB FROM HEAVY LOADING DURING CONSTRUCTION.
14. ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD PRIOR TO THE PLACEMENT OF ANY REINFORCING STEEL. A WRITTEN REPORT PREPARED BY THE GEOTECHNICAL ENGINEER OF RECORD STATING THE RESULTS OF THE GEOTECHNICAL ENGINEER'S INSPECTION SHALL BE PROVIDED TO THE CITY INSPECTOR PRIOR TO THE PERFORMANCE OF ANY FOUNDATION INSPECTION. EXCAVATION SHALL BE MADE IN COMPLIANCE WITH CAL/OSHA REGULATIONS.
15. A LINE AND GRADE CERTIFICATION PREPARED BY CIVIL ENGINEER OF RECORD SHALL BE GIVEN TO THE CITY INSPECTOR PRIOR TO PERFORMANCE OF ANY FOUNDATION INSPECTION. THIS CERTIFICATION SHALL STATE THAT THE CORRECT LOCATION FOR ALL STRUCTURES IS ESTABLISHED IN ACCORDANCE WITH THE CITY APPROVED PRECISE GRADING PLAN.
16. THE FINAL COMPACTION REPORT AND GEOTECHNICAL ENGINEER EXCAVATION INSPECTION REPORT MUST BE SUBMITTED TO THE BUILDING INSPECTOR PRIOR TO FOUNDATION INSPECTION AND THAT CITY INSPECTOR MUST INSPECT EXCAVATIONS BEFORE POURING ANY CONCRETE.
17. PRIOR TO THE CONTRACTOR REQUESTING A FOUNDATION INSPECTION, THE GEOTECHNICAL ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT;
    A) THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
    B) THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED.
    C) THE FOUNDATION EXCAVATION WAS MADE TO COMPLY THE RECOMMENDATION FOR EXPANSIVE CHARACTERISTICS AND BEARING CAPACITY.
18. PERIMETER POUR STRIP AT DOCK LEVELERS SHALL BE FREE OF ALL UNDERGROUND PIPING, CONDUIT ETC. TO ALLOW FOR FUTURE RECESSED DOCK LEVELERS .
19. ROOF LADDER DESIGN, OF MEMBERS, BRACES AND CONNECTIONS TO STRUCTURE WILL BE DONE BY THE SUPPLIER IN ACCORDANCE WITH THE BUILDING CODE.
20. CONTRACTOR TO RE-RUN SAW BLADE THROUGH CONTROL JOINTS FOR PROPER CLEAN-OUT AT END OF PROJECT.

LEGENDS:

DENOTES WAREHUSE AREA
6-1/2" THK. MIN. REINFORCED CONCRETE SLAB
FOR ADD. INFO SEE DET. 1 SD1.1 & 2 SD1.1

DENOTES OFFICE AREA
6-1/2" THK. MIN. REINFORCED CONCRETE SLAB WITH 15MIL STEGO WRAP
FOR ADD. INFO SEE DET. 1 SD1.1 & 2 SD1.1

7" THK. MIN. REINFORCED CONCRETE TRUCK COURT SLAB SEE CIVIL DRAWINGS FOR EXTENT EDGE OF SLAB
FOR ADD. INFO. SEE DET. 8 SD1.1
(CLIENT TO CONFIRM PREFERENCE)

6" THK. MIN. REINFORCED CONCRETE SLAB TYPICAL AT DRIVE THROUGH RAMP FOR ADDITIONAL INFO. SEE ENLARGED PLAN ON "S4.11"

F* DENOTES FOOTING TYPE (F) SEE FOUNDATION SCHEDULE

C* DENOTES COLUMN TYPE (C) SEE FCOLUMN SCHEDULE

COLUMN SCHEDULE

MARK	SIZE	HEIGHT	BASE PLATE		
			SIZE	ANCHOR BOLTS	DETAIL
C1	HSS10X10X5/16	TO ROOF	7/8"X16"X1'-4"	(4)-7/8" A.B	1/SD.1

FOOTING SCHEDULE

MARK	DIMENSIONS			REINFORCING	DETAIL
	LENGTH	WIDTH	DEPTH		
F1	7'-6"	7'-6"	1'-6"	8 - #6 E.W.	1 / SD.1
F2	7'-0"	7'-0"	1'-6"	7 - #6 E.W.	1 / SD.1

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PROFESSIONAL ENGINEER
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RAFAEL R. FRAUTO
CERTIFICATE OF AUTHORITY

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4555 W 7800 S (BLDG.1) & 7888 Airport Road (BLDG.2).
WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
(BLDG.2)
REVISIONS

HSA PROJECT NO. :25-117
DRAWN BY: T.T. / M.F.

25-117

FOUNDATION PALN- BLDG.2

S1.0A
(BLDG.2)

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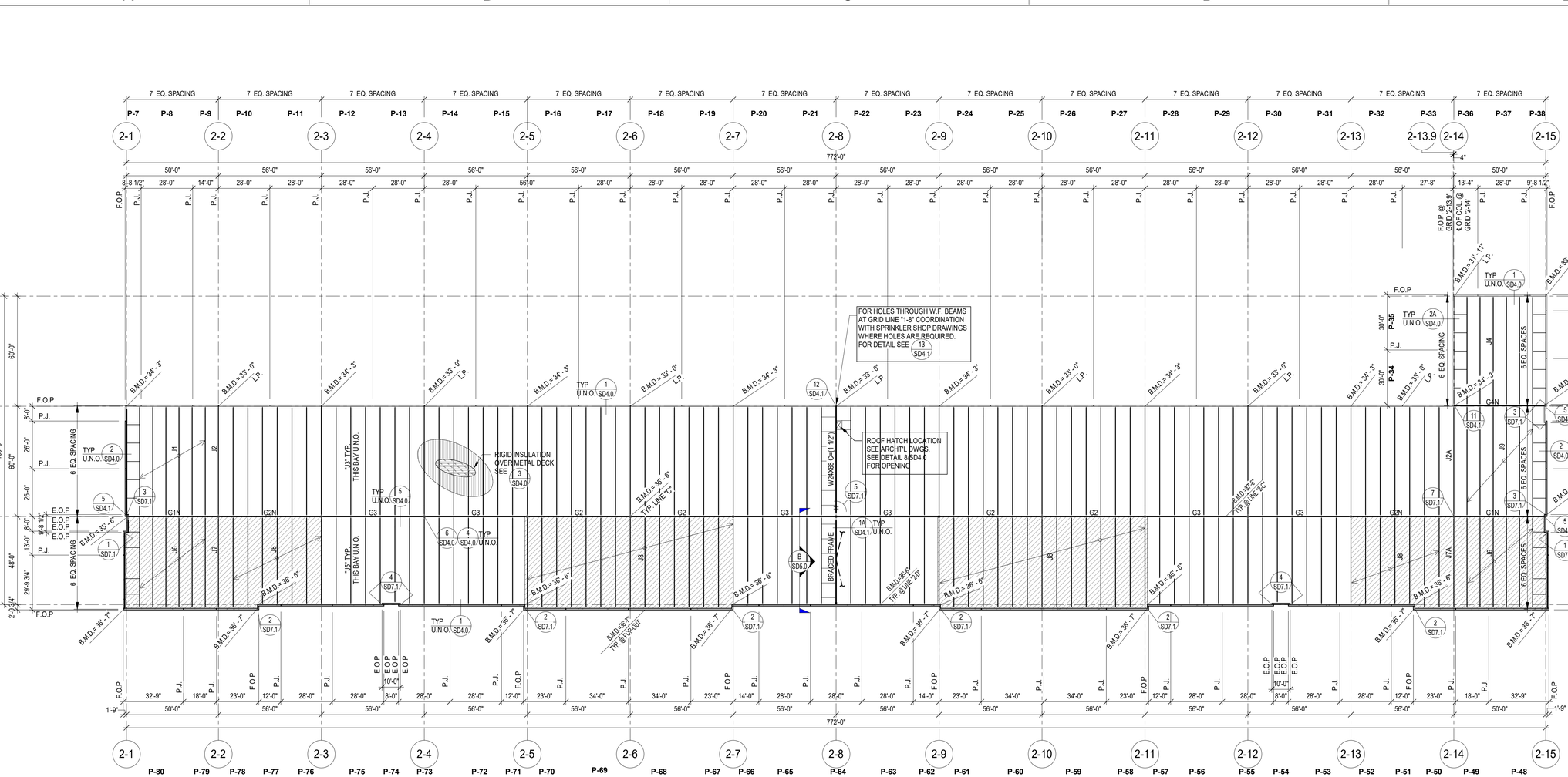

1 ROOF FRAMING PLAN

SCALE: 1" = 30'-0"

PLAN NORTH

TRUE NORTH

ROOF FRAMING NOTES:

1. FOR GENERAL NOTES SEE SHEET "SD-0", "SD-0.1" and "SD-0.2". FOR TYPICAL ROOF FRAMING DETAILS SEE SHEET "SD.4" AND "SD4.1"
2. FOR GIRDER JOIST SCHEDULE, ROOF PIN ATTACHEMENTS DIAGRAM AND NOTES SEE SHEET "S-3.1".
3. B.M.D = DENOTES BOTTOM OF METAL DECK
4. ALL ROOF ELEVATIONS ARE TAKEN DIRECTLY FROM THE FINISH FLOOR RIGHT BELOW REFERENCE POINT
5. SEE ARCH'TL AND MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECH. EQUIPMENTS FOR DETAIL SEE 8/SD.4, 12/SD.4 & 14/SD.4
6. SEE SPRINKLER DRAWINGS FOR EXACT LOCATION & WEIGHT OF SPRINKLER MAINS
7. SEE ARCH'L FOR SKYLIGHT LOCATION FOR OPENING SEE DETAIL 13/SD.4

ADEQUACY OF SUPPORTS FOR SPRINKLER SYSTEM DESIGN LOADS SHALL BE REVISED AND APPROVED BY ENGINEER OF RECORD PRIOR TO FIELD INSTALLATION AND INSPECTION.

LEGENDS:

DENOTES OFFICE AREA

DENOTES EXHAUST FAN VERIFY LOCATIONS & NO. OF UNITS W/ LATEST ARCH'TL DWG'S & MECH DWG'S. SEE DETAIL 12/SD.4

MECH'L UNIT SCHEDULE

(TO BE CONFIRMED BY MECH. ENG.)

UNIT NO.	OPER. WT. (LBS)
EF - THRU EF -	-

NOTE:

VERIFY WEIGHT OF MECH. UNITS W/ LATEST MECHANICAL & ARCHITECTURAL. DWG'S.

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ROOF FRAMING PALN- BLDG.2

S2.0A
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GIRDER AND JOIST PURLIN SCHEDULE

JOIST SCHEDULE

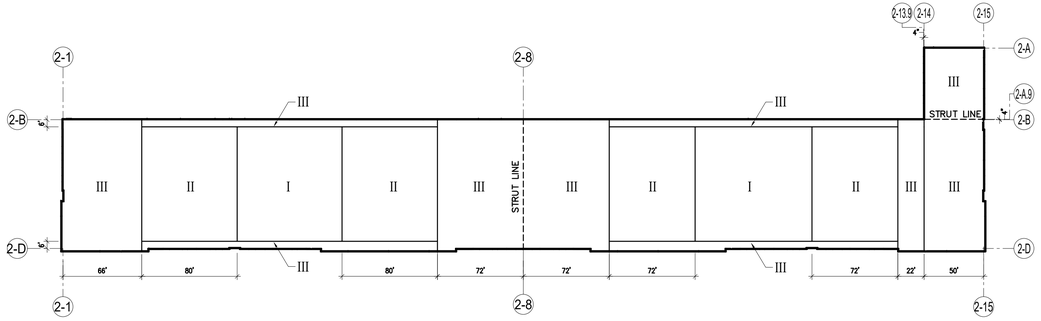
JOIST NUMBER	DESIGNATION (TL,LL)	DESIGNATION (TL,SL)	SEISMIC AXIAL (LRFD)	*MIN. GROSS MOMENT OF INERTIA AT MID SPAN (IN4)	*TOP CHORD BEND-CHECK LOAD (IF REQ.): LR	*BOTTOM CHORD BEND-CHECK LOAD (IF REQ.)	COMMENTS
J1	36LH 196/111	36LH 261/175	20 K	993	0.25 K	0.25 K	
J2	36LH 204/113	36LH 277/186	20 K	1034	0.25 K	0.25 K	
J3	36LH 212/116	36LH 292/196	20 K	1074	0.25 K	0.25 K	
J4	36/23LH 196/111	36/23LH 261/175	20 K	993	0.25 K	0.25 K	TAPERED
J5	30LH 227/131	30LH 292/196	20 K	576	0.25 K	0.25 K	
J6	30LH 237/123	30LH 290/175	20 K	616	0.25 K	0.25 K	OFFICE
J7	30LH 248/127	30LH 307/186	20 K	640	0.25 K	0.25 K	OFFICE
J8	30LH 259/131	30LH 324/196	20 K	664	0.25 K	0.25 K	OFFICE
J9	36LH 196/111	36LH 261/175	20 K	-	-	0.25 K	
J2A	36LH 204/113	36LH 277/186	90 K	1262	0.25 K	0.25 K	
J7A	30LH 248/127	30LH 307/186	90 K	821	0.25 K	0.25 K	OFFICE

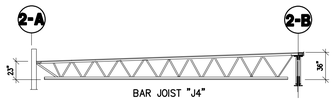
*WHERE TOP BEND CHECK REQ'D, THE MAX. DISTANCE OF PANEL POINTS WILL BE 4FT

GIRDER SCHEDULE *

GIRDER NUMBER	DESIGNATION (TL,LL)	DESIGNATION (TL,SL)	SEISMIC AXIAL (LRFD)	SEISMIC DRAG LOAD (AXIAL) Em Ω	MIN. GROSS MOMENT OF INERTIA AT MID SPAN (IN4)	COMMENTS
G1	56G7N 10.8K/4.7K	56G7N 15.6K/9.5K	125 K		7953	OFFICE
G2	60G7N 12K/5.2K	60G7N 17.4K/10.6K	125 K		10505	OFFICE
G3	60G7N 11.3K/5.2K	60G7N 16.7K/10.6K	125 K		9786	
G4	51G7N 11.2K/5.2K	51G7N 16.5K/10.5K	135 K	90 K	7422.00	

* PROVIDE BENT PLATE AT GIRDER MARKED WITH "N" ON ROOF PLAN SEE DETAIL 5/SD-4





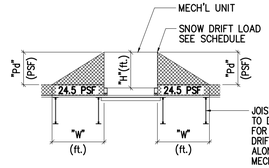
BAR JOIST "J4"

ROOF ATTACHMENT DIAGRAM
SCALE: 1" = 60'-0"

N

ROOF NOTES:

1. FOR GENERAL NOTES SEE SHEET "SD-0.0" , "SD-0.1" & "SD-0.2".
2. COORDINATE WITH ARCHITECTURAL, ELECTRICAL, PLUMBING AND MECHANICAL DRAWINGS FOR NUMBER AND SIZE OF ROOF OPENINGS UNLESS NOTED OTHERWISE. FOR FRAMING, SEE STRUCTURAL DETAIL 8/SD-4 & 9/SD-4 , 12/SD-4 & 13/SD-4
3. B.M.D. = DENOTES BOTTOM OF METAL DECK
   F.O.P. = DENOTES FACE OF PANEL
   P.J. = DENOTES PANEL JOINTS
4. ALL ROOF ELEVATIONS NOTED HERE ARE TO BOTTOM OF METAL DECK (B.M.D.) U.N.O. ALL ROOF ELEVATIONS ARE TAKEN DIRECTLY FROM THE FINISH FLOOR RIGHT BELOW REFERENCE POINT
5. FOR LOCATION OF MECHANICAL UNITS , SEE ARCHIT'L & MECH'L DRAWINGS. FOR FRAMING OF PLATFORM, SEE STRUCTURAL DETAIL. 14/SD-4
6. STEEL BAR JOIST COMPANY TO DESIGN AND DETAIL SPECIAL STEEL BAR JOISTS TO SUPPORT ALL SPRINKLER MAINS & MECHANICAL EQUIPMENT ON ROOF.
7. BRIDGING AND BRACING FOR JOISTS AND GIRDERS WILL BE DESIGNED AND PROVIDED BY STEEL BAR JOIST COMPANY.
8. STEEL BAR JOIST/JOIST GIRDER TO SUBMIT SHOP DRAWINGS AND CALCULATIONS, STAMPED/ SIGNED BY A TEXAS LICENSED PROFESSIONAL ENGINEER FOR REVIEW BY BUILDING DEPARTMENT AND STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION OF BAR JOISTS/JOIST GIRDERS. THE ABOVE CALCULATIONS TO INCLUDE ALL LOADING CONDITIONS SHOWN AT DRAWINGS & DETAILS.
9. JOIST MANUFACTURER TO USE THE FOLLOWING LOADING CRITERIA.
   A. BAR JOIST:
      (a) DEAD LOAD = 12 PSF TYPICAL. WAREHOUSE
      16 PSF TYPICAL. OFFICE
      (INCLUDED 3.5 PSF FOR FUTURE SOLAR LOADS)
      LIVE LOAD = 20 PSF (REDUCIBLE PER CODE)
      WIND LOAD = FOR NET UPLIFT, SEE DETAIL 1/– (ASD)
      FOR DOWNWARD PRESSURE, SEE DETAIL 2/–
      SNOW LOAD = 24.5 PSF (NON-REDUCIBLE)
      SEE "A"& "B" FOR SNOW DRIFT VALUES
      (b) SPRINKLER MAINS AND SWAY BRACES AS SHOWN ON SPRINKLER DRAWING.
      (c) A.C. UNITS AS SHOWN ON MECH'L, ARCHITECTURAL & STRUCTURAL DRAWINGS.
      (d) ANY ROOF HUNG LOADS SHOWN ON ELECT. & STRUCT'L DWGS.
      (e) ANY ROOF HUNG LOADS SHOWN ON PLUMBING & STRUCT'L DWGS.
      (f) (i) ADD 500 LBS CONCENTRATED LOAD AT ANY PANEL POINT FOR EACH JOIST IN WAREHOUSE.
      (ii) ADD 1000 LBS CONCENTRATED LOAD AT ANY PANEL POINT FOR EACH JOIST IN OFFICE AREA (SEE ROOF FRAMING PLANS)
   B. JOIST GIRDER:
      (a) DEAD LOAD = 14 PSF TYPICAL WAREHOUSE
      18 PSF TYPICAL OFFICE
      (INCLUDED 3.5 PSF FOR FUTURE SOLAR LOADS)
      LIVE LOAD = 20 PSF (REDUCIBLE PER CODE)
      WIND LOAD = FOR NET UPLIFT, SEE DETAIL 1/– (ASD)
      FOR DOWNWARD PRESSURE, SEE DETAIL 2/–
      SNOW LOAD = 24.5 PSF (NON-REDUCIBLE)
      SEE "A"& "B" FOR SNOW DRIFT VALUES
      (b) SPRINKLER MAINS AND SWAY BRACES AS SHOWN ON SPRINKLER DRAWING.
      (c) A.C. UNITS AS SHOWN ON MECH'L & STRUCTURAL DRAWINGS.
      (d) ANY ROOF HUNG LOADS SHOWN ON ELECT. & STRUCT'L DWGS.
      (e) ANY ROOF HUNG LOADS SHOWN ON PLUMBING & STRUCT'L DWGS.
      (f) (i) ADD 2000 LBS CONCENTRATED LOAD AT ANY PANEL POINT FOR EACH GIRDER IN WAREHOUSE.
      (ii) ADD 4000 LBS CONCENTRATED LOAD AT ANY PANEL POINT FOR EACH GIRDER IN OFFICE AREA (SEE ROOF FRAMING PLANS)
10. SEE ABOVE SCHEDULE FOR GIRDER SIZES. MANUAL SIZES NOTED AREA FOR DEAD AND LIVE LOADS NOTED IN ITEM (a) UNDER NOTE #9.B. ACTUAL DESIGN LOADS SHOULD INCLUDE LOADS LISTED IN (b), (c), (d), (e), (f) & (g) UNDER NOTE #9.B.
11. SEE ABOVE SCHEDULE FOR JOIST SIZE. MANUAL SIZES NOTED AREA FOR DEAD AND LIVE LOADS NOTED IN ITEM (a) UNDER NOTE #9.A. ACTUAL DESIGN LOADS SHOULD INCLUDE LOADS LISTED IN (b), (c), (d), (e), (f) & (g) UNDER NOTE #9.A.
12. 26LH 224/128 ETC. DENOTES "LH" SERIES OPEN WEB STEEL JOIST AS MANUFACTURED BY VULCRAFT OR APPROVED EQUIVALENT.
    DENOTES JOIST LIVE LOAD DESIGN (PLF) } NUMBERS NOTED
    DENOTES JOIST TOTAL DESIGN LOAD (PLF) } ARE ONLY AS AN
    DENOTES JOIST DEPTH } EXAMPLE
13. 44G6N 9.0K/7.0K ETC. DENOTES OPEN WEB STEEL JOIST GIRDER AS MANUFACTURED BY VULCRAFT OR APPROVED EQUIVALENT.
    DENOTES LIVE LOAD (KIPS) APPLIED AT EACH GIRDER PANEL POINT. } NUMBERS NOTED
    DENOTES TOTAL DESIGN LOAD (KIPS) APPLIED AT EACH GIRDER PANEL POINT. } ARE ONLY AS AN
    DENOTES JOISTS GIRDER DEPTH } EXAMPLE
14. VERIFY LOCATION AND SIZE OF ALL SPRINKLER MAINS AND SWAY BRACE LOADS WITH SPRINKLER DRAWINGS.
15. VERIFY LOCATION AND WEIGHTS OF ALL EXHAUST FANS AND A.C. UNITS ON THE ROOF WITH MECHANICAL DRAWINGS.
16. VERIFY SIZE, WEIGHT & ATTACHMENT POINTS OF CONVEYORS CATWALK WITH THE MATERIAL HANDLING DRAWING.
17. LIVE LOAD DEFLECTION CRITERIA IS:
    L/180 FOR TOTAL LOAD } AT WAREHOUSE
    L/240 FOR LIVE LOAD }
    L/240 FOR TOTAL LOAD } AT OFFICE
    L/360 FOR LIVE LOAD }
18. ALL BAR JOISTS SHALL HAVE 5" BEARING SEAT
19. USE STANDARD SJI CAMBER WITH ±1/4" TOLERANCE.

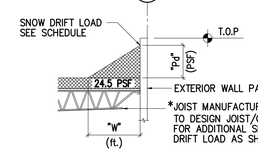


A SNOW DRIFT LOAD AT MECH'L UNIT

FOR MECH'L UNIT WIDTH GREATER THAN 15'–0" OR MECH'L UNITS LESS THAN 15'–0" APART.

SNOW DRIFT LOAD AT RTU.		
MAX. " H "*	Pd (PSF)	W (ft.)
4'–0"	49.7 PSF	21'–5"
6'–0"	86.8 PSF	36'–0"

*INFORM STRUCTURAL ENGINEER IF "H" IS GREATER THAN 6'–0" FOR SPECIFIC DECK RECOMMENDATIONS



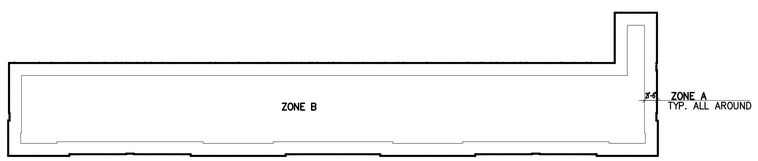
B SNOW DRIFT LOAD AT PARAPET

SNOW DRIFT LOAD			
GRID	MAXIMUM T.O.P.	Pd (PSF)	W (ft.)
A	38'–0"	61 PSF	13'–3"
B	38'–6"	53 PSF	11'–3"
15	39'–0"	86.8 PSF	36'–6"
1	40'–6"	91.5 PSF	34'–5"

ROOF METAL DECK GAUGE AND ATTACHMENT SCHEDULE

AREA	(*) DECK GAGE	NO. OF HSN–24 HILTI PINS AT EACH SUPPORT (**)	SIDE LAP FASTENING EACH SHEET W/ VULCRAFT PUNCHLOCK TOOL	BOUNDARY ATTACHMENT WHERE DECK RUNS PARALLEL TO WALL	ALLOWABLE SHEAR (PLF)
I	22	4	VSC2 @ 24" O.C.	X–HSN–24 HILTI PINS @ 15"	755
II	20	8	VSC2 @ 12" O.C.	X–HSN–24 HILTI PINS @ 11"	1792
III	18	8	VSC2 @ 12" O.C.	X–HSN–24 HILTI PINS @ 6"	2750

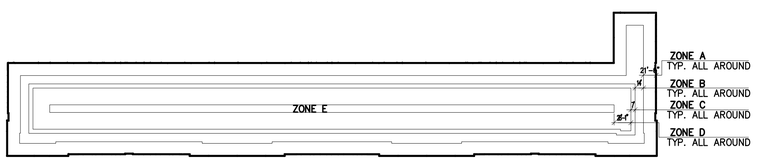
1. ROOF DECK USED IS VULCRAFT 1.5PLB–36 FACTORY PAINTED WHITE @ UNDERSIDE GALVANIZED METAL DECK. COMPLY WITH ALL REQUIREMENTS AS STATED IN EVALUATION REPORT ESR–2776 OR APPROVED EQUAL WITH YIELDING STRENGTH 80 KSI.
2. SHEET SIDE LAP ATTACHMENT WITH VERCO PUNCHLOK II TOOL AS SHOWN IN TABLE BELOW OR APPROVED EQUAL.
*3. DECK GAGE SHOWN IN SCHEDULE IS BASED ON TWO SPAN MIN. CONDITION. IF ONE SPAN IS USED, REPLACE 20 GA WITH 18 GA & REPLACE 22 GA WITH 20 GA.
4. PROVIDE BOUNDARY ATTACHMENT ALL AROUND, THE BUILDING, ALL AROUND OPENING. PROVIDE TWO ROWS OF BOUNDARY ATTACHMENT ALONG "2–8", & "2–D".
5. RIGID INSULATION ON TOP OF THE METAL DECK SHALL BE APPLIED AFTER COMPLETION OF METAL DECK ATTACHMENTS. AND INSPECTION BY THE BUILDING DEPARTMENT.



MEMBER	ZONE A	ZONE B
JOIST	13.3 PSF	9.6 PSF
GIRDER	4.8 PSF	4.8 PSF

A) LOADS DETERMINED IN ACCORDANCE WITH ASCE 7–16
B) THE ABOVE WIND IS 0.6W IN ASD.

ROOF WIND DOWNWARD PRESSURE | 2



MEMBER	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E
JOIST	–19.5 PSF	–12.9 PSF	–12.9 PSF	–7.1 PSF	–7.1 PSF
GIRDER	–7.5 PSF	–7.5 PSF	–2.5 PSF	–2.5 PSF	–0.1 PSF

FOR GIRDER WITH TRIBUTARY AREA LESS THAN 700 SFT, USE SAME PRESSURE AS JOISTS.

A) LOADS DETERMINED IN ACCORDANCE WITH ASCE 7–16
B) BASIC LOAD COMBINATION 0.6D+0.6W USED FOR ASD.
C) WIND LOADS CALCULATED USING ASCE 7–16 ANALYTICAL PROCEDURES.

ROOF WIND NET UPLIFT | 1

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HSA PROJECT NO.: 25-117
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SHEET TITLE:

ROOF LOADING DIAGRAM, GIRDERS & BAR JOIS SCHEDULE - BLDG2

S3.1A
(BLDG.2)

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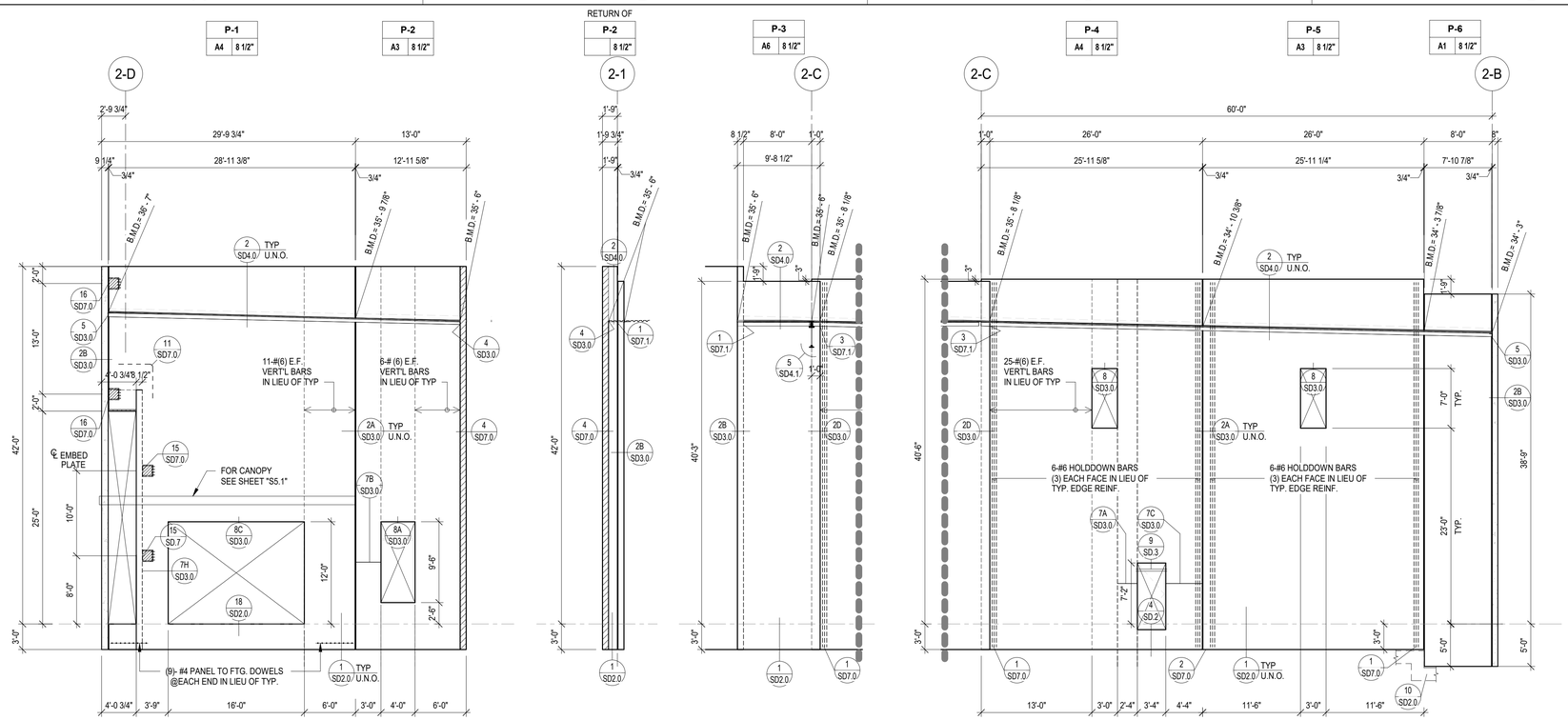
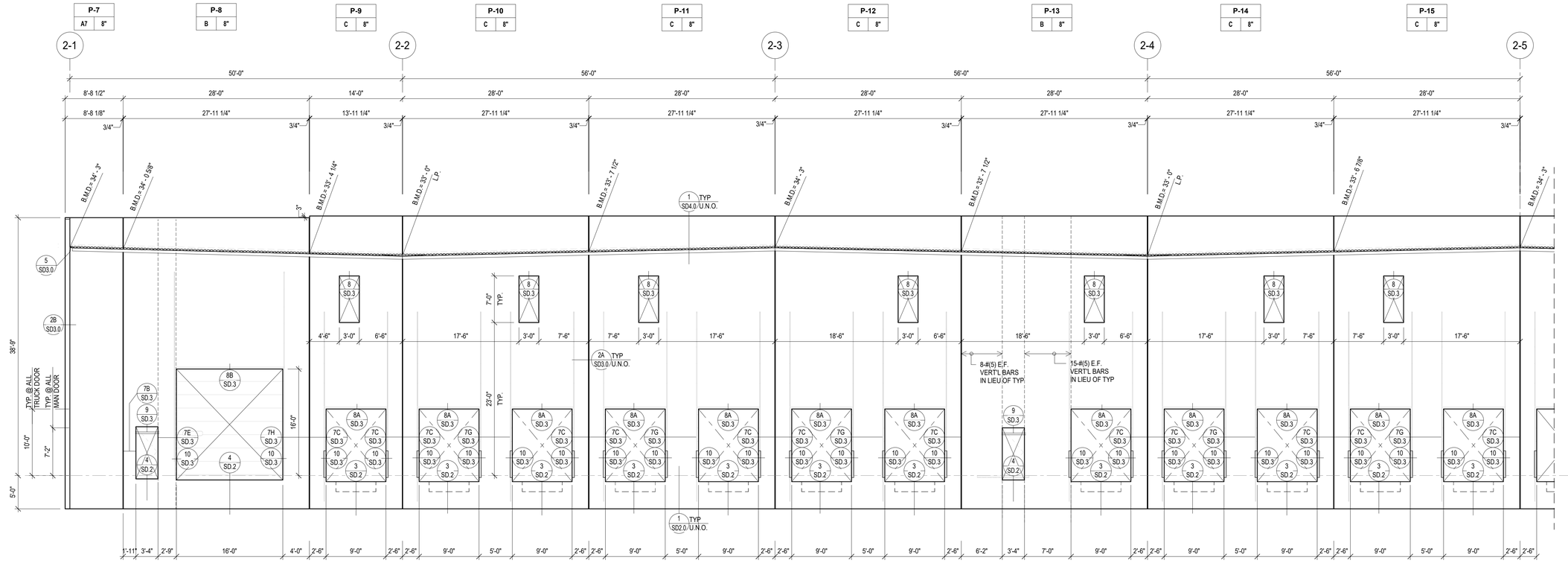


WEST PANEL ELEVATIONS ON LINE "2-1"

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



NORTH PANEL ELEVATIONS ON LINE "2-B"

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

PANEL NOTES:

1. FOR GENERAL NOTES, SEE SHEET "SD-0" & "SD-0.1".
   FOR TYPICAL PANEL NOTES AND TYPICAL PANEL REINFORCEMENT, SEE DETAIL 1 SD.3
2. T.S. = DENOTES TOP OF SHEATHING
3. FOR REVEALS AND TEXTURES SEE ARCHITECTURAL DRAWINGS.
4. ALL ROOF ELEVATIONS ARE TAKEN DIRECTLY FROM FINISH FLOOR RIGHT BELOW REFERENCE POINT.
5. DENOTES PANEL NUMBER
   DENOTES PANEL THICKNESS
   DENOTES PANEL TYPE FOR REINFORCEMENT
6. PANELS ARE VIEWED FROM INTERIOR.
7. FOR TYPICAL PANEL OPENING FOR DOWNSPOUT & OVERFLOW SCUPPER SEE DETAIL 13 SD.3
8. FOR TYPICAL LEDGER SPLICE AT HIGH POINT OR LOW POINT, SEE DETAIL 13 SD.6

NOTE:

1. CONTRACTOR SHALL VERIFY BOTTOM OF THE PANEL WITH THE LATEST GRADING PLAN.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH THE LATEST ARCHITECTURAL & STRUCTURAL DRAWINGS BEFORE FORMING OF PRECAST CONCRETE PANELS.
3. CONTRACTOR TO COORDINATE LOCATION OF SPRINKLER MAIN RISER WITH FIRE PROTECTION DWGS. SEE DETAIL "9/SD-1".
4. CONTRACTOR TO COORDINATE LOCATION OF ELECTRICAL TRENCH WITH ELECTRICAL DWGS. SEE DETAIL "10/SD-1" FOR TYPICAL FOOTING BLOCK-OUT.
5. CONTRACTOR REFER TO DETAIL "11/SD-1" FOR OPENING OF FUTURE DOCK LEVELER.

NOTE:

CONTRACTOR TO COORDINATE LOCATION OF TORSION SPRING CENTER BRACKET ATTACHMENT WITH ARCH TO CLEAR THE OPENING/K.O.P.. ADJUST THE VERTICAL TRACKS AS NEEDED. THE CONTRACTOR WILL BE RESPONSIBLE FOR DOOR AND BRACKET ATTACHMENT TO CONCRETE WALL.

LEGENDS:

DENOTES FUTURE KNOCK-OUT PANEL

DENOTES THICKENED PIER FOR THICKNESS, SEE PANEL ELEV.

NOTE:

FOR EXACT DIMENSION/ LOCATION OF EMBEDDED PLATES, SEE CANOPY FRAMING PLAN AT SHEET "S-5.1"

NOTE:

CONTRACTOR TO PROVIDE SLEEVE AT ALL INTERIOR DRAINS THRU PANEL. COORDINATE LOCATIONS WITH ARCHITECT AND PLUMBING PLANS.

NOTE:

BOTTOM OF PANEL MAY NEED TO BE ADJUSTED PER LATEST CIVIL GRADING PLAN.

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PANEL ELEVATIONS- BLDG.2

S4.1A
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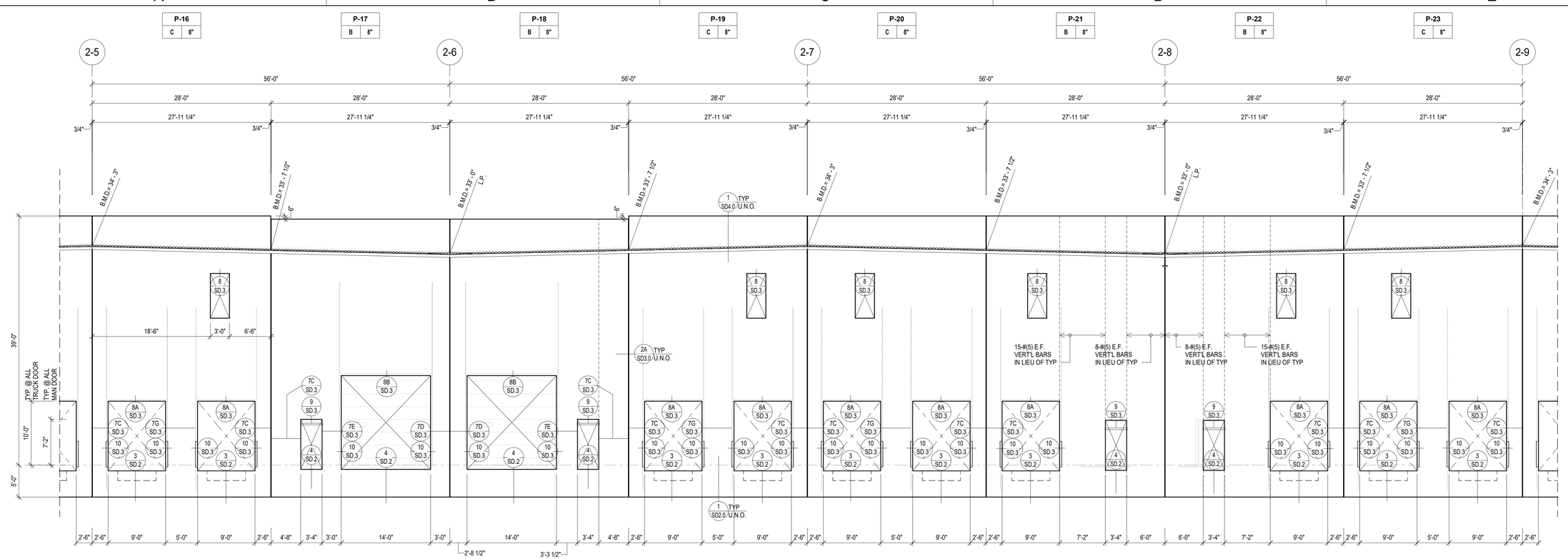
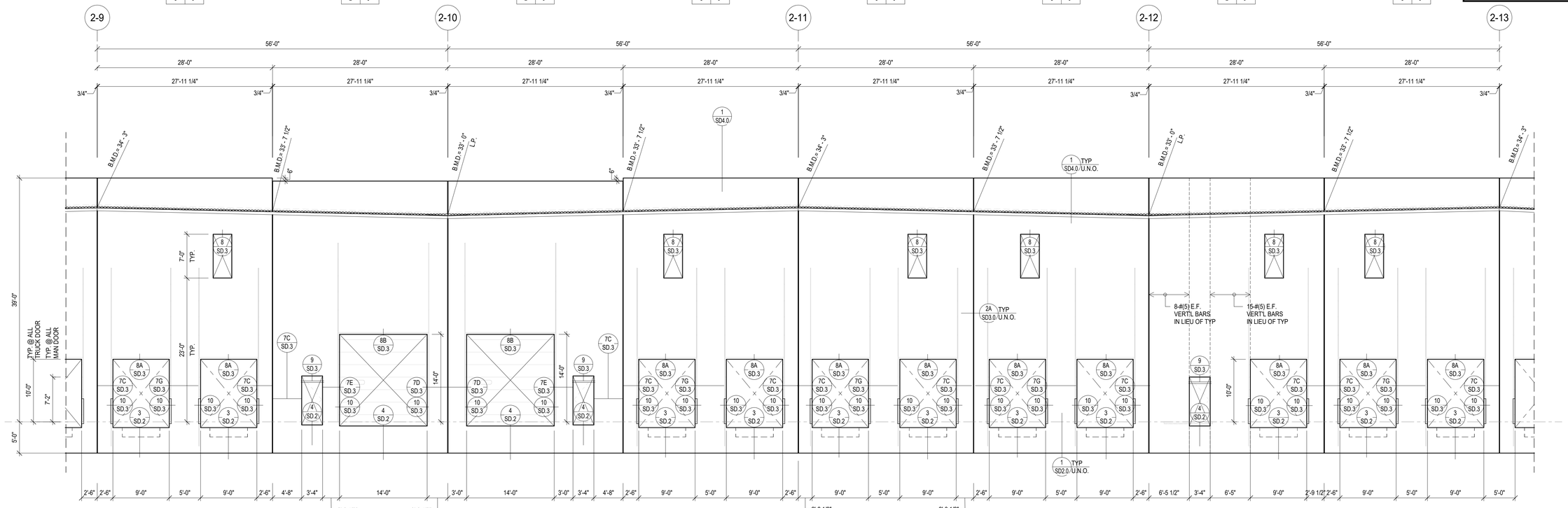


NORTH PANEL ELEVATIONS ON LINE "2-B"

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



NORTH PANEL ELEVATIONS ON LINE "2-B"

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

NOTE:

1. FOR TYPICAL PANEL NOTES AND LEGEND, REFER TO SHEET "S4.1A".

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PANEL ELEVATIONS-BLDG.2

S4.2A
(BLDG.2)

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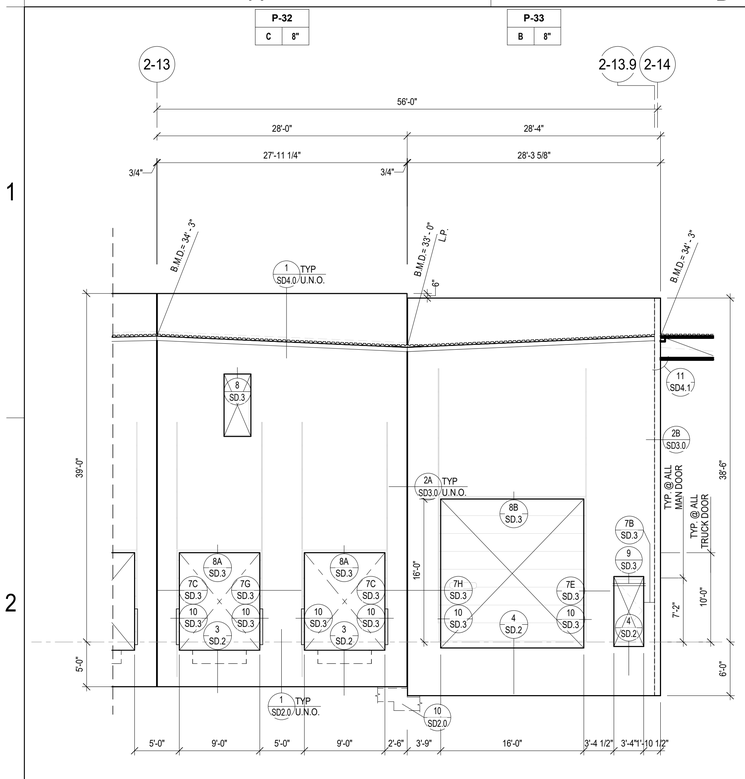
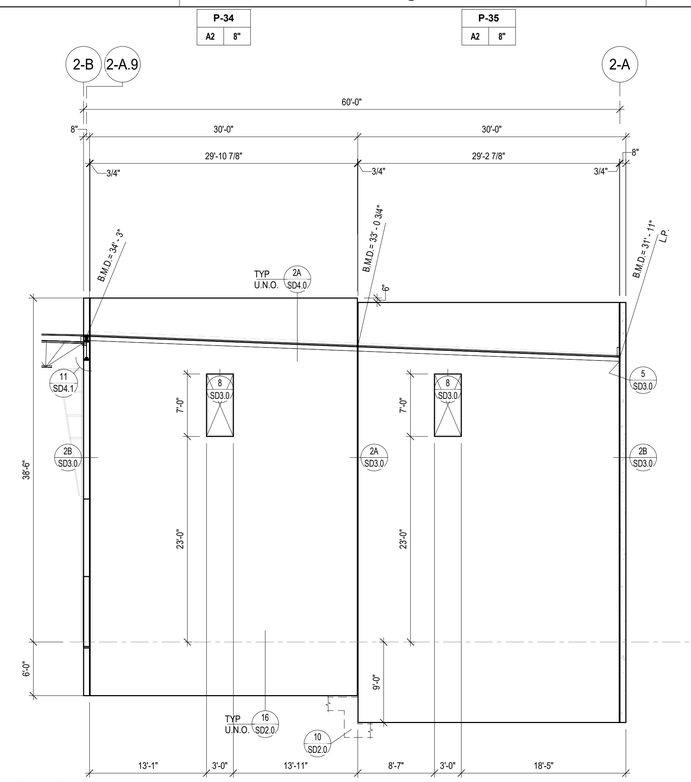


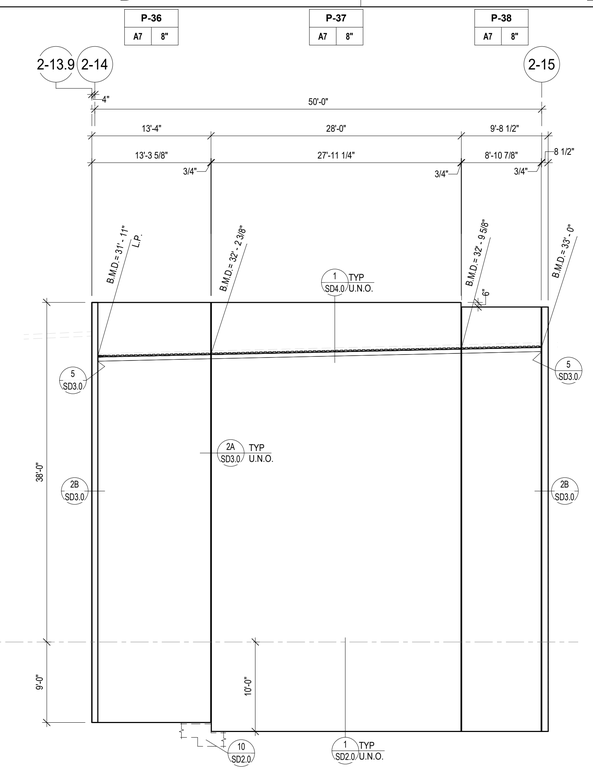
NORTH PANEL ELEVATIONS ON LINE "2-B"

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



EAST PANEL ELEVATIONS ON LINE "2-14"

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

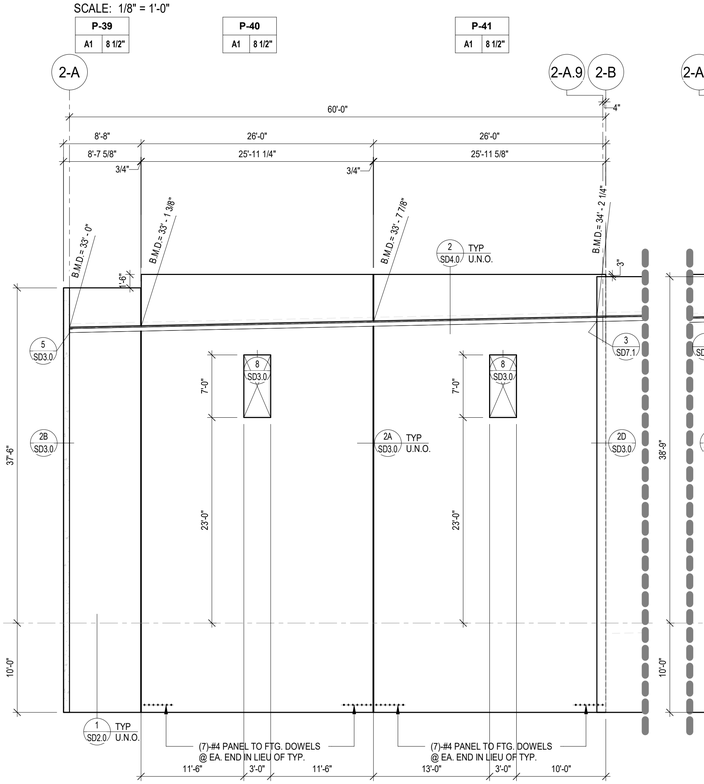


NORTH PANEL ELEVATIONS ON LINE "2-A"

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

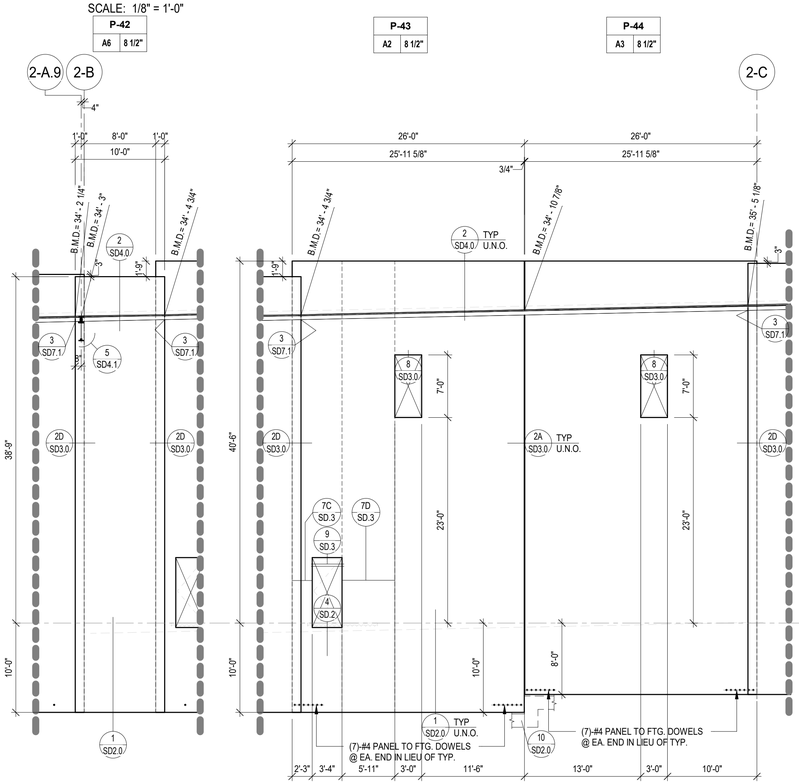
NOTE:

1. FOR TYPICAL PANEL NOTES AND LEGEND, REFER TO SHEET "S4.1A".



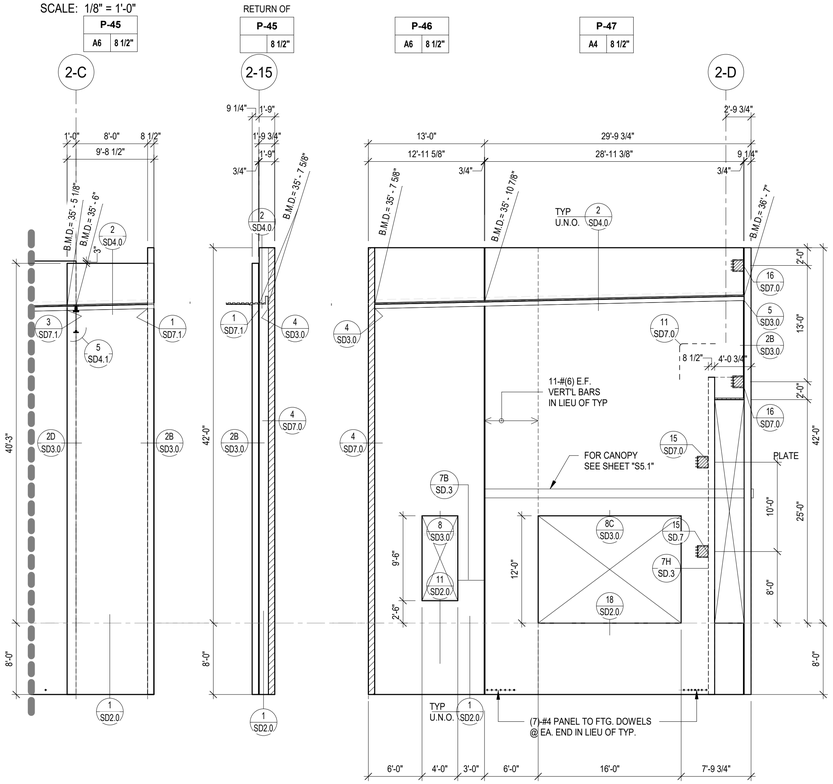
EAST PANEL ELEVATION AT GRIDLINE "2-15"

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



EAST PANEL ELEVATIONS ON LINE "2-C"

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



EAST PANEL ELEVATION AT GRIDLINE "2-15"

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

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HSA PROJECT NO. :25-117
DRAWN BY: T.T. / M.F.

7800 LOGISTICS W. JORDAN
GO INDUSTRIAL
4555 W 7800 S (BLDG.1) & 7888 Airport Road (BLDG.2).
WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

25-117

PANEL ELEVATIONS- BLDG.2

S4.3A
(BLDG.2)

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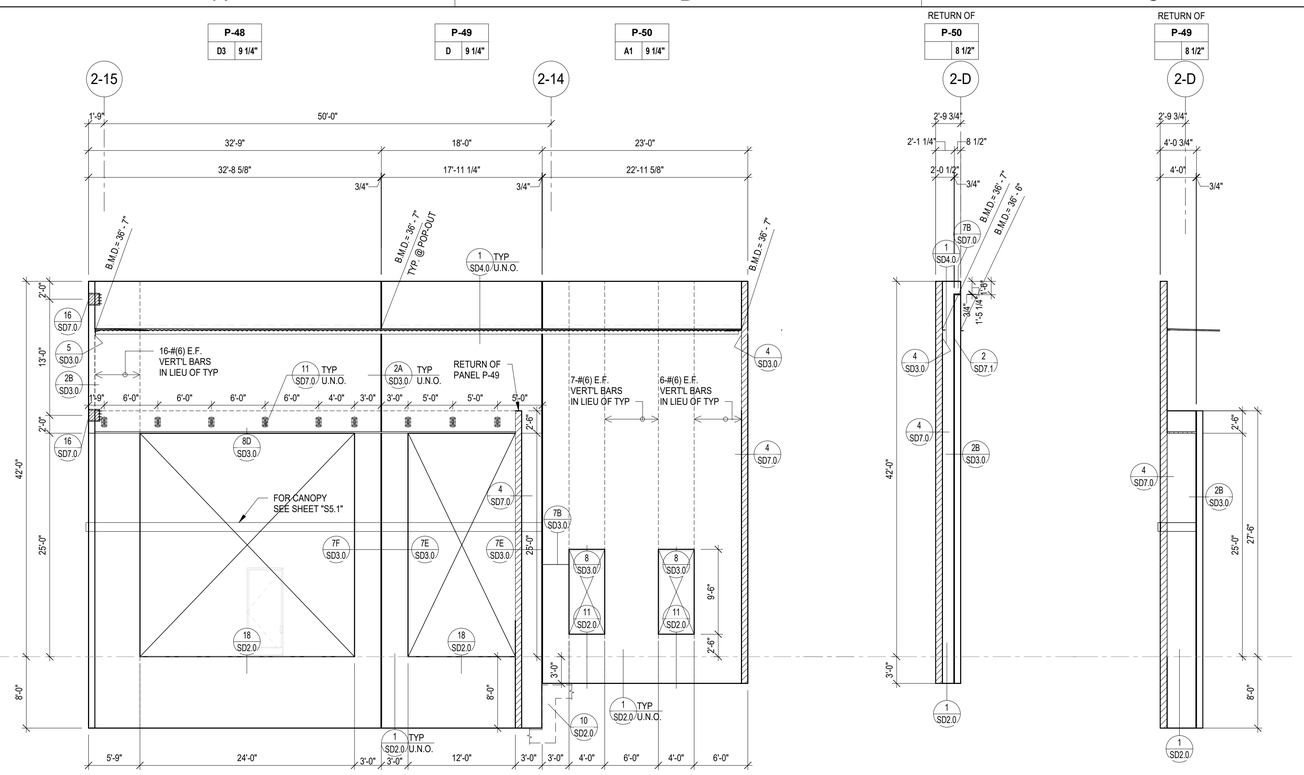
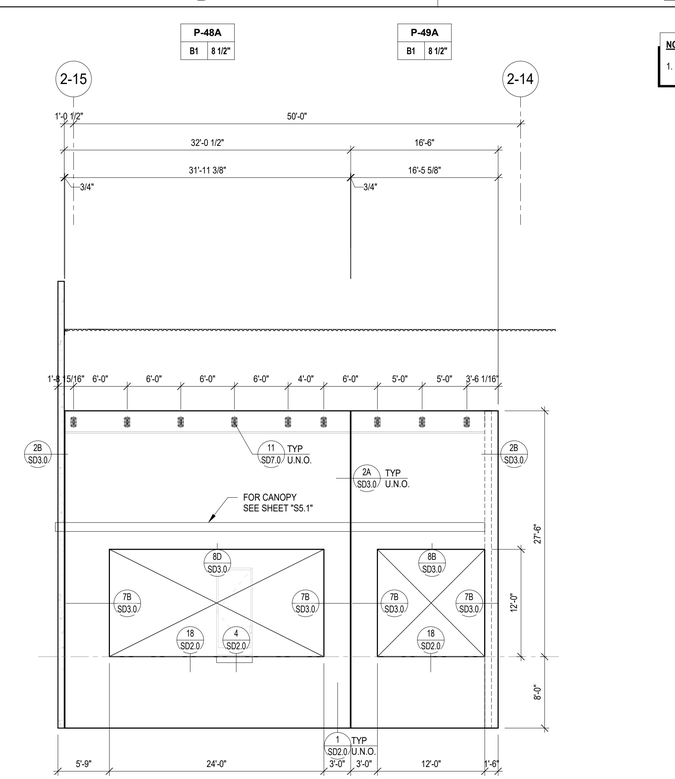


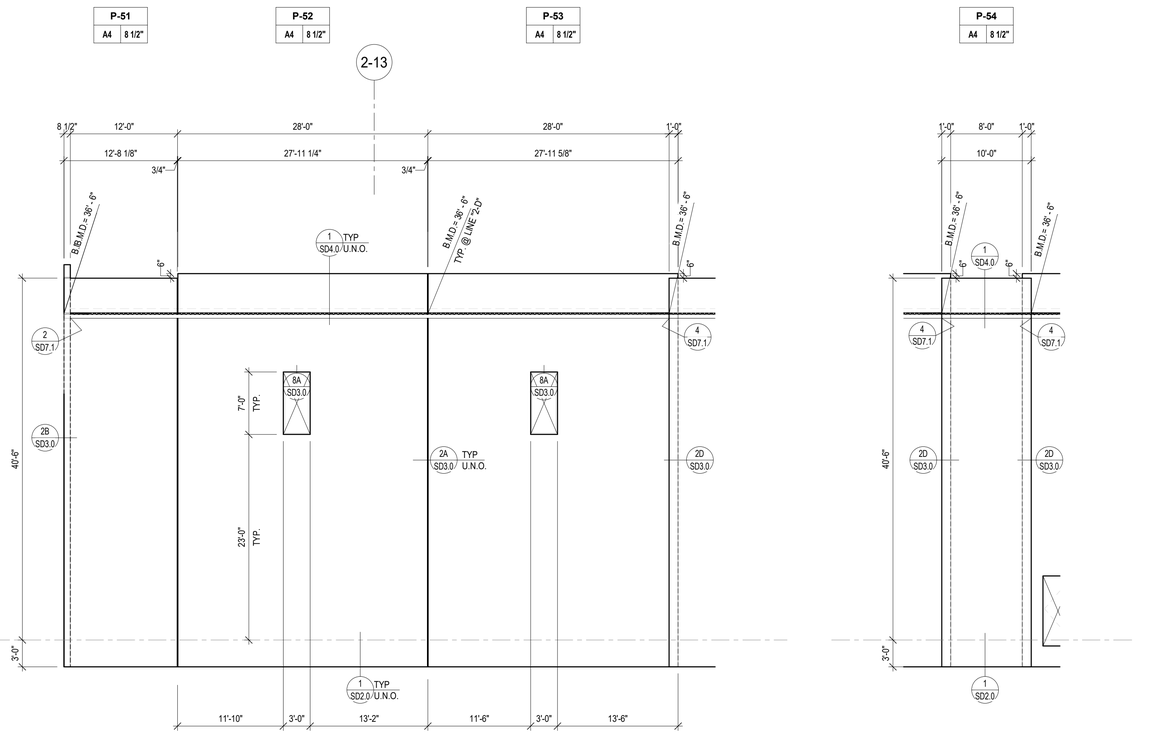
SOUTH PANEL ELEVATIONS ON LINE "2-D"

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



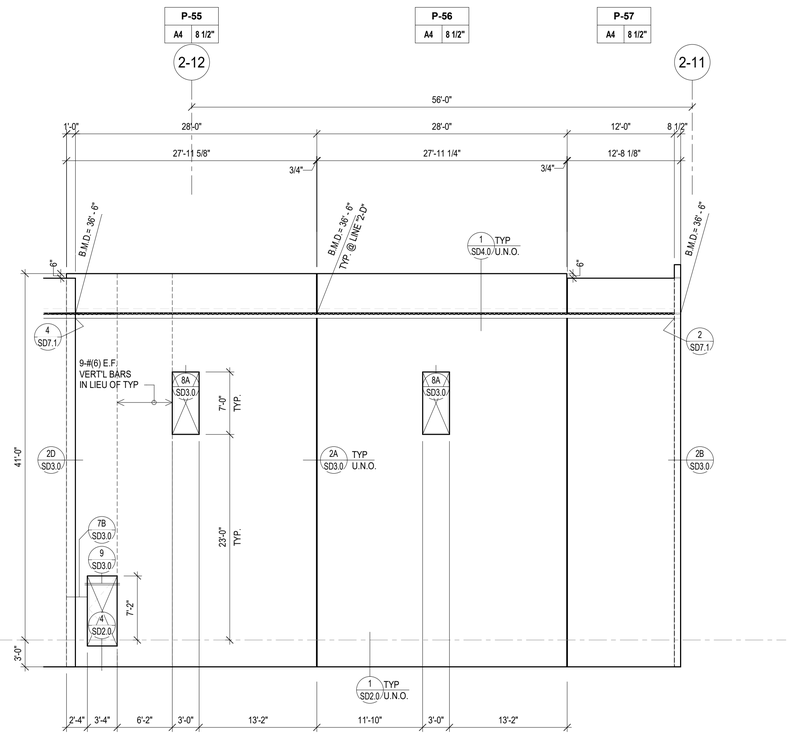
SOUTH PANEL ELEVATIONS @ ENTRY SOFFIT

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



SOUTH PANEL ELEVATIONS ON LINE "2-D"

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



NOTE:

1. FOR TYPICAL PANEL NOTES AND LEGEND, REFER TO SHEET "S4.1A".

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CONSTRUCTION DOCUMENTS
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REVISIONS

25-117

PANEL ELEVATIONS- BLDG.2

S4.4A
(BLDG.2)

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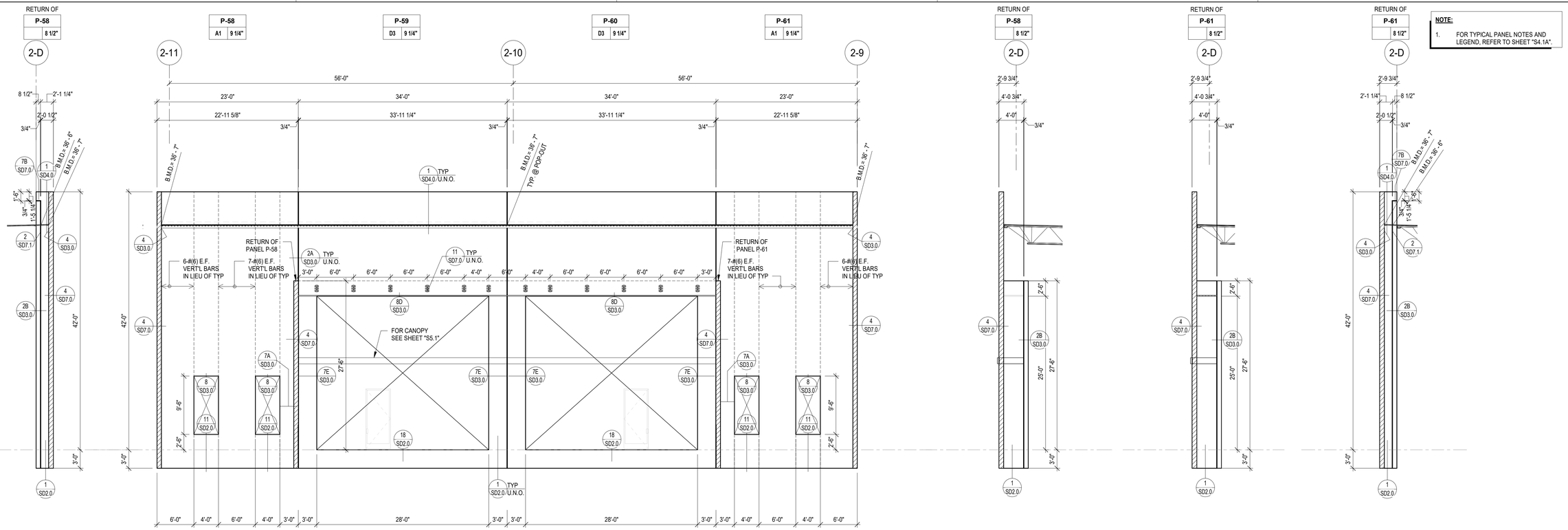
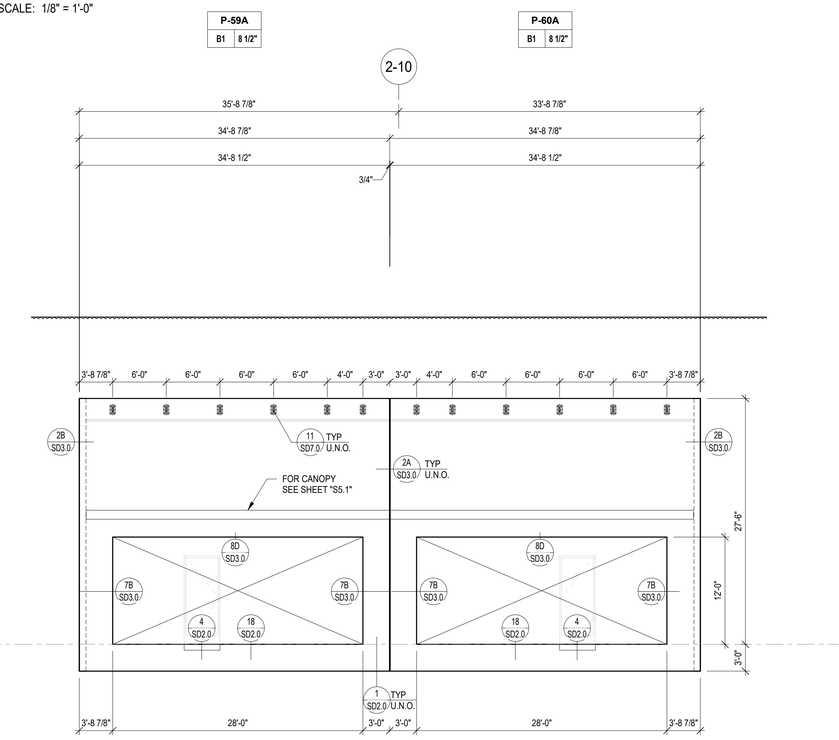


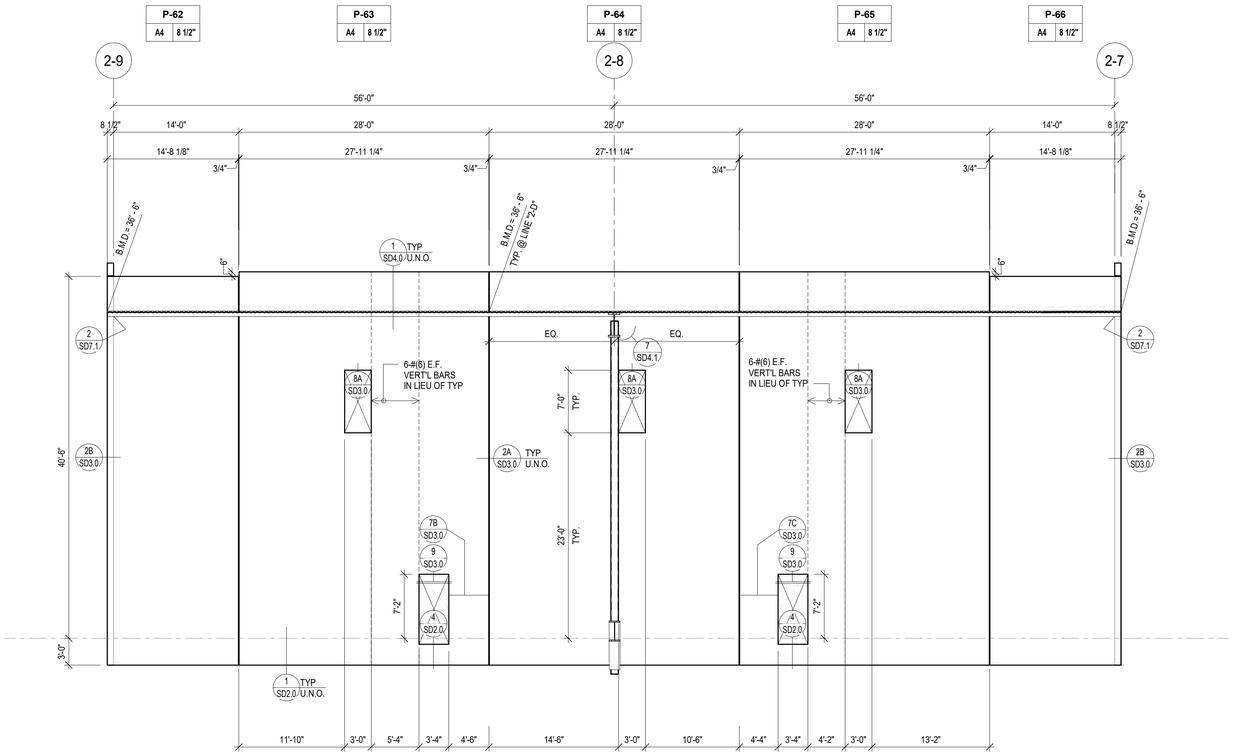
SOUTH PANEL ELEVATIONS ON LINE "2-D"

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



SOUTH PANEL ELEVATIONS @ ENTRY SOFFIT

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



SOUTH PANEL ELEVATIONS ON LINE "2-D"

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

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HSA PROJECT NO. :25-117
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PANEL ELEVATIONS- BLDG.2

S4.5A
(BLDG.2)

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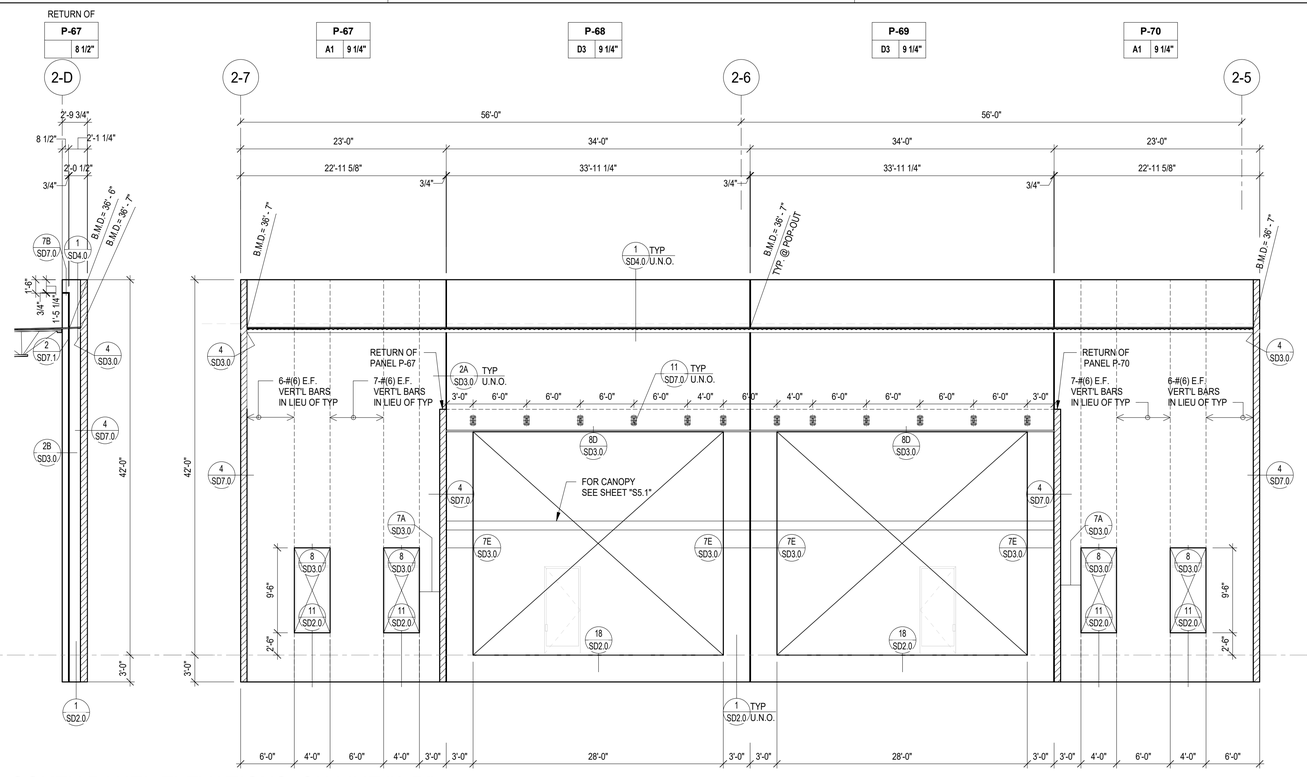
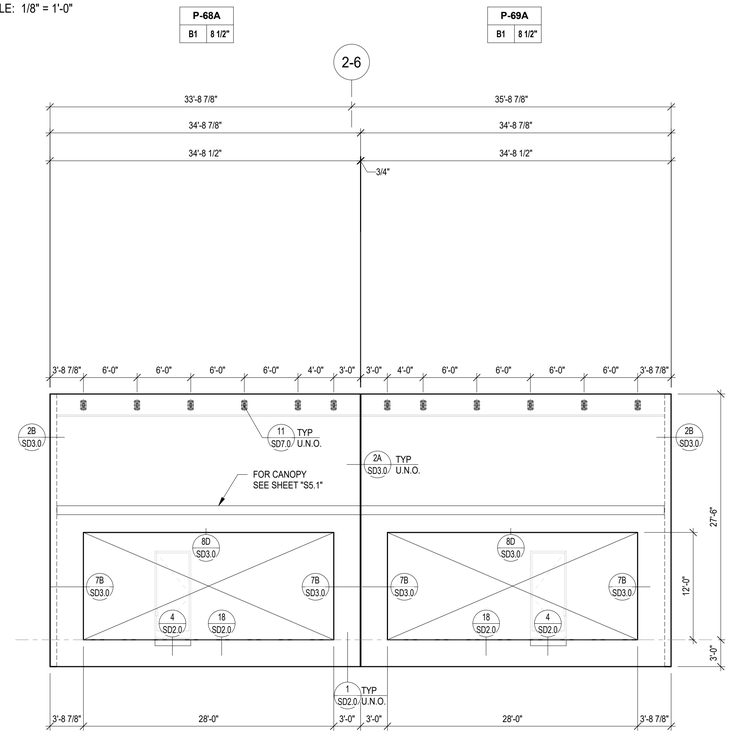


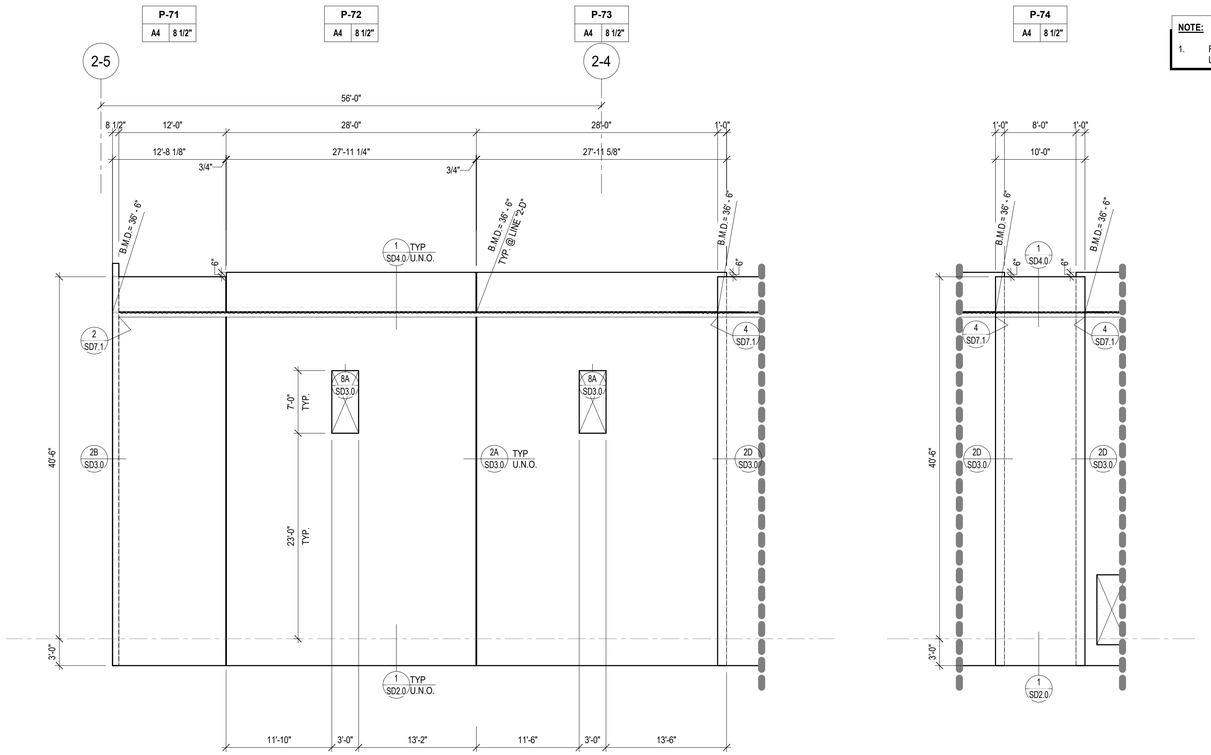
SOUTH PANEL ELEVATIONS ON LINE "2-D"

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



SOUTH PANEL ELEVATIONS @ ENTRY SOFFIT

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



SOUTH PANEL ELEVATIONS ON LINE "2-D"

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

NOTE:

1. FOR TYPICAL PANEL NOTES AND LEGEND, REFER TO SHEET "S4.1A".

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CONSTRUCTION DOCUMENTS
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PANEL ELEVATIONS- BLDG.2

S4.6A
(BLDG.2)

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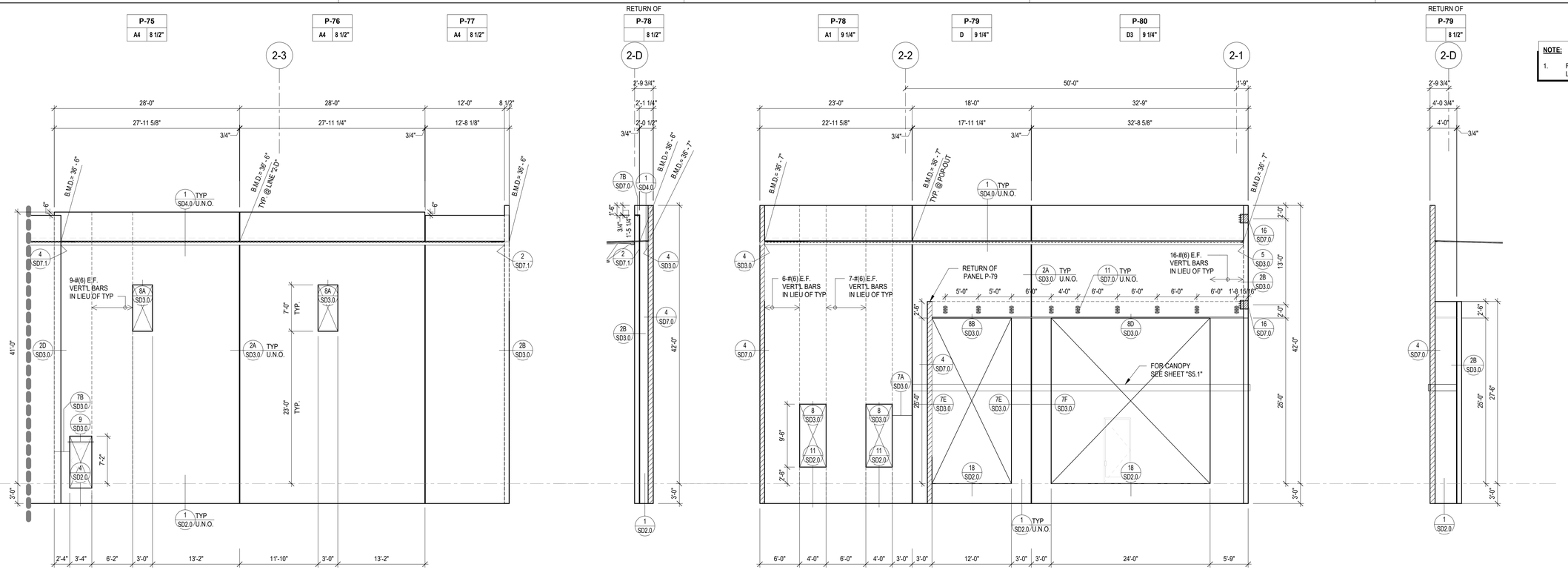
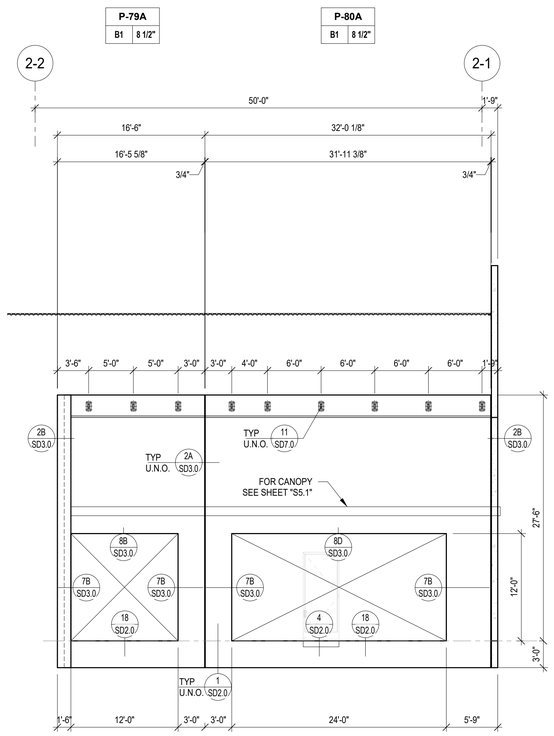


SOUTH PANEL ELEVATIONS ON LINE "2-D"

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



SOUTH PANEL ELEVATIONS @ ENTRY SOFFIT

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

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NOTE:

1. FOR TYPICAL PANEL NOTES AND LEGEND, REFER TO SHEET "S4.1A".

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HSA PROJECT NO. :25-117
DRAWN BY: T.T. / M.F.

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GO INDUSTRIAL
4555 W 7800 S (BLDG.1) & 7888 Airport Road (BLDG.2),
WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
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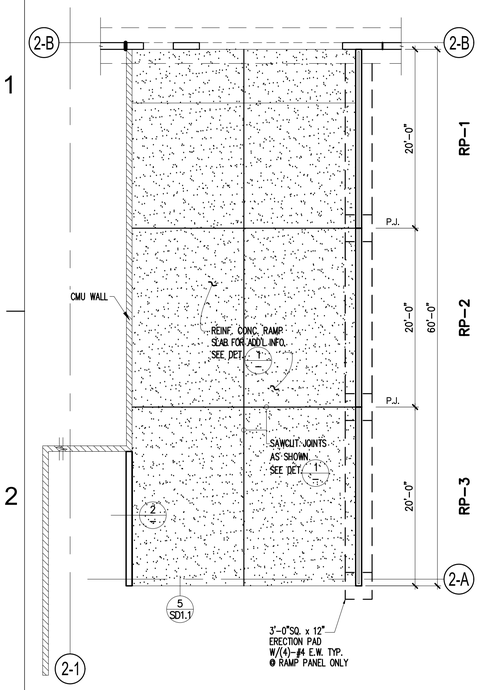
25-117

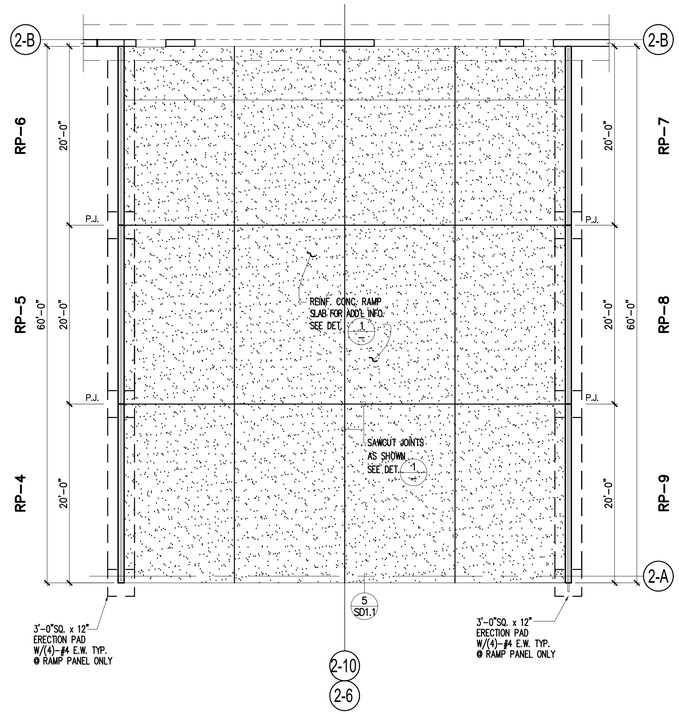
PANEL ELEVATIONS-BLDG.2

S4.7A
(BLDG.2)



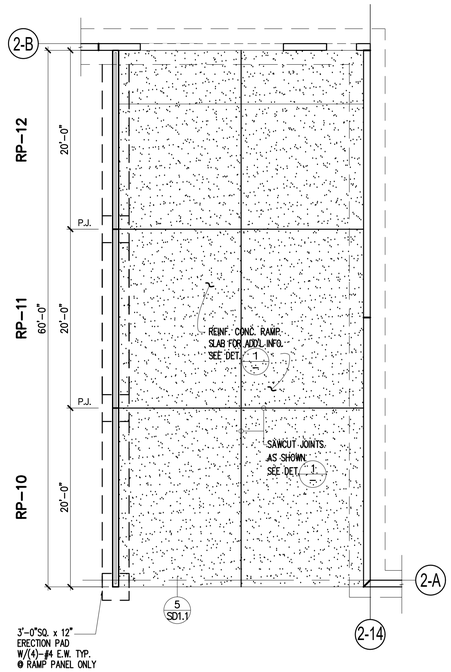
RAMP PANEL PLAN (A)

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



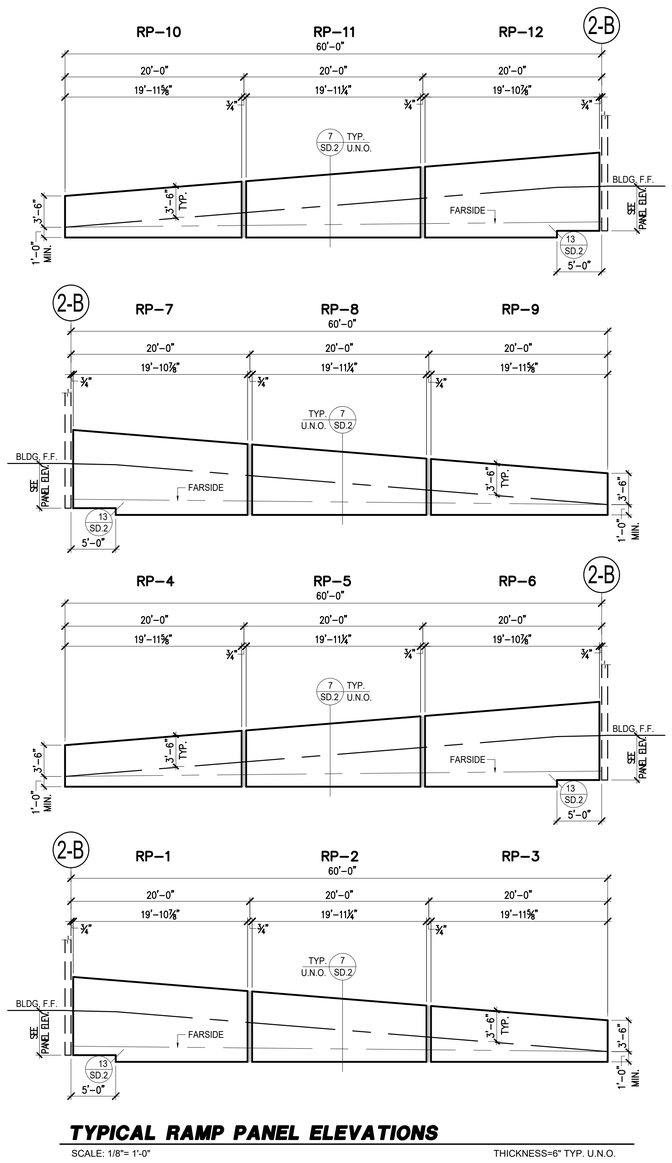
RAMP PANEL PLAN (B)

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



RAMP PANEL PLAN (C)

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



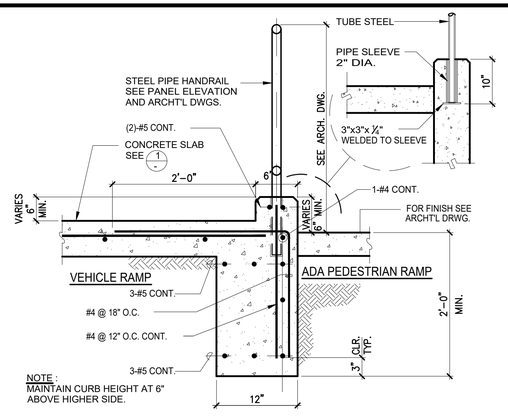
TYPICAL RAMP PANEL ELEVATIONS

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

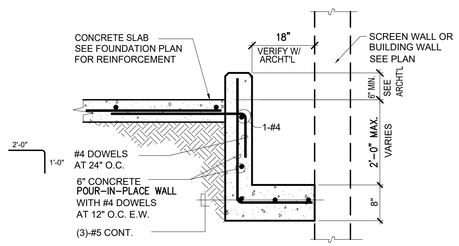
THICKNESS=6" TYP. U.N.O.

NOTES:

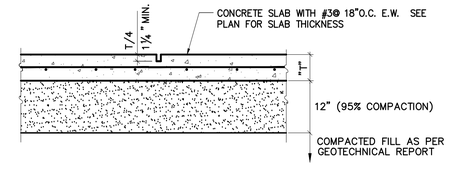
1. CONTRACTOR SHALL VERIFY BOTTOM OF THE PANEL WITH THE LATEST GRADING PLAN.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH THE LATEST ARCHITECTURAL , STRUCTURAL & MECH. DRAWINGS BEFORE FORMING OF PRECAST CONCRETE PANEL.



DETAIL 3



SLOT FOR GATE IN SLAB 2



CONTROL JOINT AT RAMP SLAB 1

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PROFESSIONAL STRUCTURAL ENGINEER
No. 9368808
RAFIK REFAAT GERGES
STATE OF UTAH

HSA & ASSOCIATES, INC.
CONSULTING STRUCTURAL ENGINEERS
3302 N. Main Avenue, Suite 300
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Tel: (801) 621-3911

HSA PROJECT NO.: 25-117
DRAWN BY: T.T./M.F.

7800 LOGISTICS W. JORDAN
GO INDUSTRIAL
4555 W 7800 S (BLDG.1) & 7888 Airport Road (BLDG.2).
WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
Issue Date
REVISIONS

SHEET TITLE:

RAMP PLANS AND DETAILS - BLDG2

S4.8A
(BLDG.2)

(NOT FOR BID OR CONSTRUCTION)

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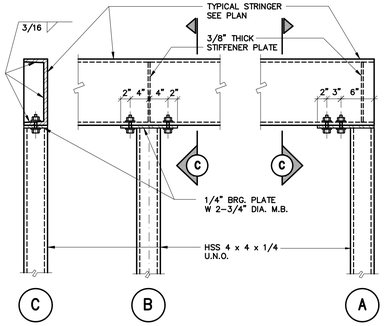
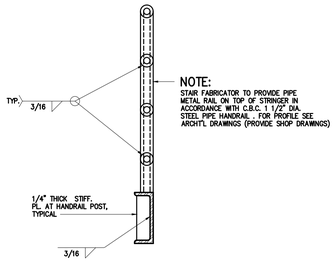
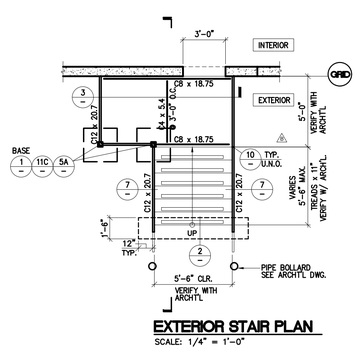


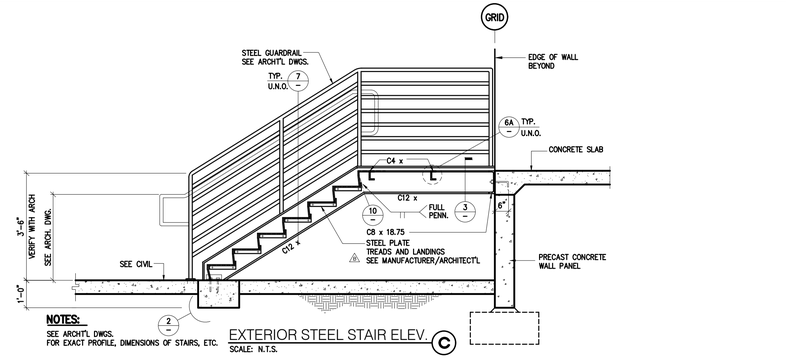
HSS POST AT STRINGER — 11



GUARDRAIL POST TO STRINGER — 7



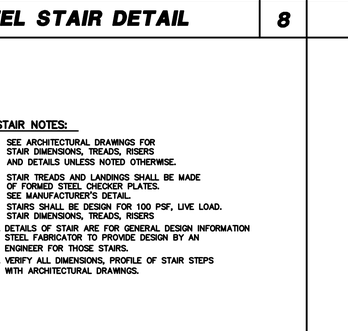
EXTERIOR STAIR PLAN
SCALE: 1/4" = 1'-0"



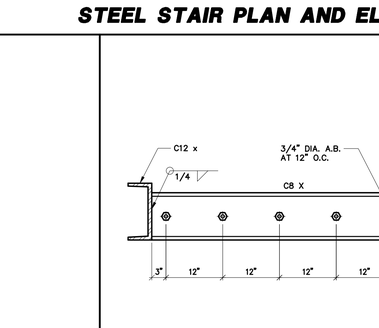
NOTES:
SEE ARCHT'L DWGS.
FOR EXACT PROFILE, DIMENSIONS OF STAIRS, ETC.

EXTERIOR STEEL STAIR ELEV. C
SCALE: N.T.S.

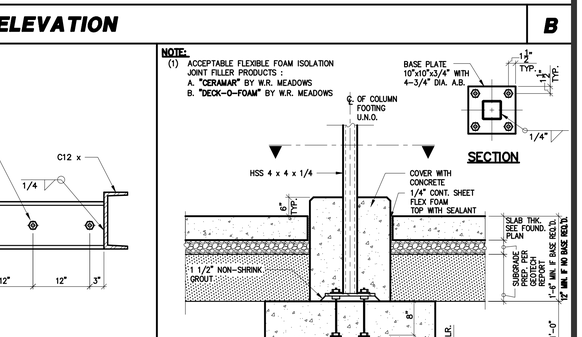
STEEL STAIR PLAN AND ELEVATION — A



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



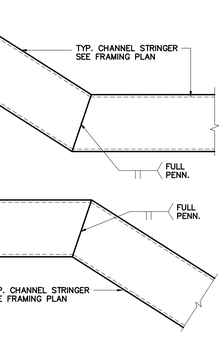
EXTERIOR STEEL STAIR ELEV. D
SCALE: 1/2" = 1'-0"



NOTES:
SEE ARCHT'L DWGS.
FOR EXACT PROFILE, DIMENSIONS OF STAIRS, ETC.

EXTERIOR STEEL STAIR ELEV. C
SCALE: 1/2" = 1'-0"

STEEL STAIR PLAN AND ELEVATION — B

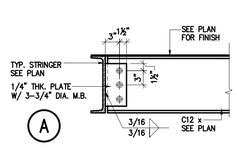


STEEL STAIR DETAIL — 8

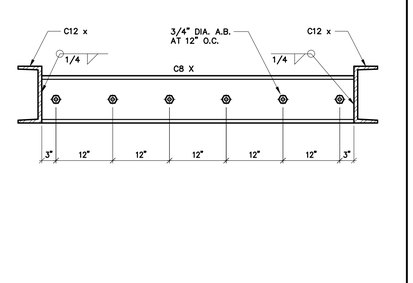
STAIR NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR STAIR DIMENSIONS, TREADS, RISERS AND DETAILS UNLESS NOTED OTHERWISE.
2. STAIR TREADS AND LANDINGS SHALL BE MADE OF FORMED STEEL CHECKER PLATES. SEE MANUFACTURER'S DETAIL.
3. STAIRS SHALL BE DESIGN FOR 100 PSF, LIVE LOAD. STAIR DIMENSIONS, TREADS, RISERS
4. DETAILS OF STAIR ARE FOR GENERAL DESIGN INFORMATION STEEL FABRICATOR TO PROVIDE DESIGN BY AN ENGINEER FOR THOSE STAIRS.
5. VERIFY ALL DIMENSIONS, PROFILE OF STAIR STEPS WITH ARCHITECTURAL DRAWINGS.

NOTES — 9

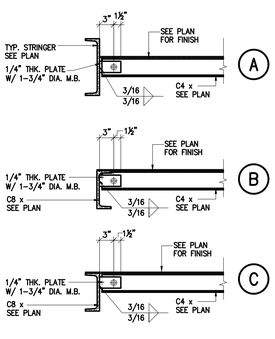


STEEL STAIR FRAMING CONN. — 5

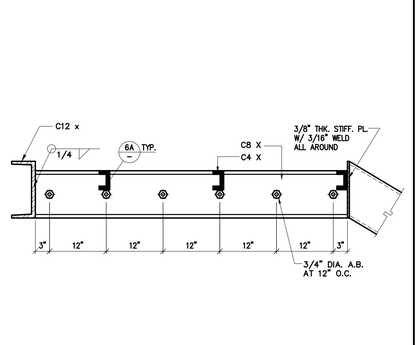


STAIR FRAMING DETAIL — 3

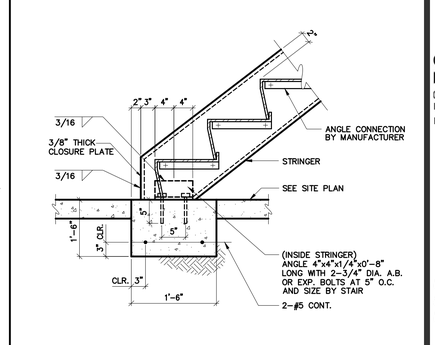
HSS COLUMN TO FOOTING — 1



TYP. CHANNEL CONN. DETAILS — 6



STAIR FRAMING DETAIL — 4



STRINGER TO FOOTING — 2

DLR GROUP
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PROFESSIONAL STRUCTURAL ENGINEER
No. 9035368
RAFIK REFAAT GERGES
STATE OF UTAH

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WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
Issue Date
REVISIONS

SHEET TITLE:

EXTERIOR STEEL STAIR PLAN AND ELEVATION - BLDG.2

S4.9A
(BLDG.2)

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(NOT FOR BID OR CONSTRUCTION)

GENERAL

1. "CODE" WHERE REFERRED TO HERE IN REFERS TO INTERNATIONAL BUILDING CODE (IBC) 2021 EDITION.
2. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CODE. AND ALL APPLICABLE LOCAL AND STATE CODES AND ORDINANCES.
3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE DRAWINGS AND SPECIFICATIONS. ANY CHANGES OR SUBSTITUTIONS MADE MUST BE APPROVED BY THE BUILDING OFFICIAL, AS WELL AS THE ENGINEER OF RECORD, PRIOR TO INSTALLATION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION AND SHALL PROVIDE ADEQUATE SHORING, BRACING AND GUYS DURING CONSTRUCTION. SAFETY AND BRACING REQUIREMENTS SHALL BE IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES.
6. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS REQUIRED FOR DUCTS, PIPES AND FOR ALL PIPE SLEEVES, ELECTRICAL CONDUITS AND OTHER ITEMS TO BE EMBEDDED IN CONCRETE OR OTHERWISE INCORPORATED IN STRUCTURAL WORK.
7. IN ALL CASES WHERE A CONFLICT MAY OCCUR, SUCH AS BETWEEN ITEMS COVERED IN SPECIFICATIONS AND NOTES ON THE DRAWINGS OR BETWEEN GENERAL NOTES AND SPECIFIC DETAILS, THE ENGINEER SHALL BE NOTIFIED AND HE WILL INTERPRET THE INTENT OF THE CONTRACT DOCUMENTS.
8. WHERE CONSTRUCTION MATERIALS ARE TEMPORARILY STORED ON ROOF OR FLOOR FRAMING, THEY SHALL BE DISTRIBUTED SO THAT THE LOAD DOES NOT EXCEED THE DESIGN LIVE LOAD.
9. THE GEOTECHNICAL REPORT IS CONSIDERED A PART OF THESE PLANS. A COPY SHALL BE KEPT AT THE JOB SITE AT ALL TIMES. ANY SUGGESTED "SHOULD" ACTION GIVEN IN THE GEOTECHNICAL REPORT SHALL BE TAKEN AS A DIRECTIVE "SHALL".
10. CONTRACTOR WILL SET UP A PRE-CONSTRUCTION MEETINGS WITH ARCHITECT, STRUCTURAL ENGINEER AND GEOTECHNICAL ENGINEER PRIOR TO START OF CONSTRUCTION.

DESIGN CRITERIA

RISK CATEGORY

BUILDING IS DESIGNED PER RISK CATEGORY II REQUIREMENTS AND HAS TO COMPLY WITH BELOW OCCUPANCY AND STORAGE LIMITATIONS PER IBC 2021.

1. PUBLIC SPACES (SUCH AS BREAK ROOMS, CONFERENCE ROOMS, TRAINING ROOMS) OCCUPANCY SHOULD BE LIMITED TO BE LESS THAN 300. IF THE OCCUPANCY EXCEEDS 300, THEN CUMULATIVE OCCUPANCY OF ALL THE PUBLIC SPACES SHOULD NOT EXCEED 2500.
2. MAXIMUM CUMULATIVE OCCUPANCY OF BUILDING SHOULD NOT EXCEED 5000.
3. HAZMAT STORAGE BUILDINGS SHOULD NOT CONSIST OF MORE THAN 1 LB. OF SOLID OR LIQUID EXPLOSIVE MATERIALS NOR MORE THAN 500 LBS OF SOLID OR LIQUID TOXIC MATERIALS.

SEISMIC

OCCUPANCY CATEGORY = II
SEISMIC DESIGN CATEGORY = C
RESPONSE MODIFICATION COEFFICIENT, R = 4.0 (FOR INTERMEDIATE PRECAST STRUCTURAL WALLS)
R = 8.0 (FOR BUCKLING-RESTRAINED BRACED FRAMES (BRBF))

SYSTEM OVERSTRENGTH FACTOR, Ω_0 = 2.0 (FOR INTERMEDIATE PRECAST STRUCTURAL WALLS WITH FLEXIBLE DIAPHRAGM)
Ω_0 = 2.0 (FOR BUCKLING-RESTRAINED BRACED FRAMES (BRBF))

DEFLECTION AMPLIFICATION FACTOR, Cd = 4.0 (FOR INTERMEDIATE PRECAST STRUCTURAL WALLS)
Cd = 5.0 (FOR BUCKLING-RESTRAINED BRACED FRAMES (BRBF))

REDUNDANCY FACTOR, ρ = 1.0 (FOR INTERMEDIATE PRECAST SHEAR WALLS)
SEISMIC IMPORTANCE FACTOR, I_E = 1.0
S_S = 1.054g S_{DS} = 0.843g
S_1 = 0.373g S_{D1} = 0.719g

WIND

ULTIMATE WIND SPEED (V_{ULT}) = 105 MPH
NOMINAL WIND SPEED (V_{ASD}) = 81 MPH
WIND EXPOSURE = C
IMPORTANCE FACTOR (I_W) = 1.0

FOUNDATION

1. THE FOUNDATION DESIGN IS BASED ON THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT NO. 3409-02A-25 DATED: 09/30/2025 AND PREPARED BY GSH GEOTECHNICAL ,INC .
2. ALL THE RECOMMENDATIONS CONTAINED IN THE ABOVE MENTIONED REPORT ARE PART OF THESE SPECIFICATIONS.
3. SITE AND BASE PREPARATION SHALL BE PER THE GEOTECHNICAL REPORT RECOMMENDATIONS.
4. ALL FOOTINGS EXCAVATIONS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER AND BUILDING DEPARTMENT PRIOR TO POURING CONCRETE.
5. THE SOIL BEARING VALUE USED FOR THE DESIGN OF FOOTINGS UPON COMPACTED EARTH AND 18" MIN. BELOW LOWEST FINISHED GRADE IS:

ALLOWABLE SAFE BEARING CAPACITY (PSF)

DEPTH (FT)	CONTINUOUS FOUNDATION	SPREAD FOUNDATION
1.5	2500	2500

6. SEE GEOTECHNICAL REPORT FOR COMPACTED FILL REQUIRED UNDER ALL THE FOOTINGS.
7. PAD PREPARATION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING ANY CONCRETE. THE PAD SHALL BE KEPT MOIST PRIOR TO THE PLACING OF CONCRETE. PRE-SATURATION OF THE SLAB SUBGRADE WILL BE AS PER GEOTECHNICAL REPORT.
8. ALL MATERIAL FROM FOOTING EXCAVATIONS TO BE REMOVED AND SHOULD NOT BE USED UNDER THE SLAB ON GROUND.
9. OVER EXCAVATION AND RECOMPACTION SHOULD BE COMPLETED IN ACCORDANCE WITH GEOTECHNICAL REPORT RECOMMENDATIONS
10. SLAB ON GROUND ON PAVEMENT AREAS SHOULD BE OVER EXCAVATED AND RECOMPACTED WHERE REQUIRED AS PER THE GEOTECHNICAL REPORT.
11. SOIL COMPACTION REPORT SHALL BE SUBMITTED TO THE CITY BUILDING INSPECTOR PRIOR TO FOOTING INSPECTION AND PRIOR TO PLACEMENT OF FOOTING CONCRETE.
12. PROVIDE SURVEY STAKES PRIOR TO FOUNDATION INSPECTION TO VERIFY LOT LINES.
13. SEE GEOTECHNICAL REPORT FOR REMOVAL AND RECOMPACTION REQUIREMENTS.
14. GEOTECHNICAL ENGINEER TO VERIFY SULFATE TEST RESULTS WITH ADDITIONAL TESTS DURING FINAL GRADING AND ADVISE SEOR IF CHANGED FROM THE GEOTECHNICAL REPORT.
15. GEOTECHNICAL ENGINEER SHALL INSPECT AND APPROVE FOUNDATION PRIOR TO PLACEMENT OF CONCRETE FOR THE FOUNDATION. EVIDENCE OF SUCH INSPECTION SHALL BE PROVIDED TO THE BUILDING INSPECTOR AT FOUNDATION INSPECTION.
16. PROVIDE DRAINAGE BEHIND ALL RETAINING/SITE WALLS AS REQUIRED BY THE GEOTECHNICAL REPORT.
17. UNDERPINNING TO BE DESIGNED AS PER IBC CHAPTER 18 AND 33.
18. CONSTRUCTION TOLERANCES SHALL BE FOLLOWED PER ACI 301.

PRECAST PANELS

1. ALL PANELS ARE DRAWN FROM THE INSIDE OF THE BUILDING U.N.O. ALL PANEL THICKNESSES ARE SHOWN ON THE PANEL ELEVATION DRAWINGS.
2. PANEL REINFORCEMENT IS DETAILED ON SHEET SD-3 FOR TYPICAL PANEL TYPES. ADDITIONAL PANEL REINFORCEMENT MAY BE DETAILED ON THE PANEL ELEVATIONS.
3. ADD 2-#5 BARS MINIMUM AROUND ALL OPENINGS TYPICAL U.N.O., EXTEND 2'-0" BEYOND OPENING U.N.O. ALSO ADD 1-#5 E.F. DIAGONAL BAR AT ALL CORNERS OF ALL OPENINGS. SEE DETAIL "3/SD-3".
4. DURING ERECTION OF PANELS SUPPORTED BY CONTINUOUS FOOTINGS, PROVIDE GROUT UNDER THE PANELS FOR THE FULL LENGTH OF THE FOOTING BEFORE PANELS HAVE BEEN ERECTED. AS AN ALTERNATE FOR CONTINUOUS GROUT, USE 18" SQ. GROUT PADS LOCATED AT 6'-0" O.C. MAX., 3'-0" FROM PANEL JOINT, AND AT EACH SIDE OF PANEL OPENING, THEN GROUT FULL LENGTH OF THE PANEL AFTER THE PANELS ARE ERECTED. NO SHIMS WILL BE ACCEPTABLE AS AN ALTERNATE.
   A. SCHEDULE ONE SITE VISIT BY THE STRUCTURAL ENGINEER, THE DAY PRIOR TO THE ERECTION ON THE FIRST PANEL.
   B. FORWARD A COPY OF THE STRUCTURAL ENGINEERS JOB SITE REPORT, STATING ACCEPTANCE OF THE GROUT PAD INSTALLATION, TO THE BUILDING OFFICIAL
5. SEE ROOF PLAN AND VERIFY WITH ROOF COMPANY SHOP DRAWINGS PRIOR TO INSTALLATION OF ROOF CONNECTION BOLTS AND SCUPPERS.
6. SEE ARCHITECTURAL DRAWINGS FOR ALL DESIGN REVEALS AND FORMLINERS. VERIFY ALL REQUIRED OPENINGS WITH RELATED ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
7. REINFORCING STEEL TO BE GRADE 60 DEFORMED BARS CONFORMING TO ASTM A615. ALL REBAR TO BE WELDED SHALL CONFORM TO ASTM A706.
8. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND FIELD CONDITIONS PRIOR TO POURING CONCRETE FOR FOOTING AND PANELS.
9. PANEL JOINTS SHALL BE SEALED WITH BACK-UP ROD AND SEALANT AT EXTERIOR AND INTERIOR FACES EXCEPT PANELS INSIDE OF BUILDING.
10. USE ICC APPROVED BOND BREAKER.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND PLACEMENT OF ALL LIFTING POINTS, ADDITIONAL SPECIAL REINFORCEMENT AND STRONG BACKS REQUIRED TO ADEQUATELY TILT THE PRECAST CONCRETE PANELS. THE LIFT DESIGN SHALL BE BASED ON THE STRENGTH OF THE CONCRETE SPECIFIED BY THE STRUCTURAL DRAWINGS AS EXPECTED AT TIME OF LIFT. TEST RESULTS FOR CONCRETE STRENGTH PRIOR TO LIFTING MUST BE APPROVED. A MINIMUM OF 7 DAYS AND 70% OF CONCRETE STRENGTH @ 28 DAYS MUST BE MET BEFORE LIFTING PANELS.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY BRACING REQUIRED FOR PRECAST PANELS PRIOR TO CONNECTION OF ALL SUPPORTING ELEMENTS SUCH AS THE ROOF STRUCTURE AND FLOOR SLAB.
13. PRECAST CONCRETE PANELS ARE DESIGNED IN ACCORDANCE WITH THE PROVISIONS FOR THE MANUFACTURE UNDER PLANT CONTROL CONDITIONS PER ACI 318 SECTION 20.6.1.3.3. ALL JOB SITE PRECAST CONDITIONS MUST BE EQUAL TO THAT NORMALLY EXPECTED IN A PLANT.
14. CONTINUOUS INSPECTION REQUIRED FOR ALL PRECAST PANELS.
15. PROVIDE 1 1/2" CONC. COVER TO ALL VERT. BARS IN DOUBLE CURTAIN REINFORCED PANELS, TYP. U.N.O.
16. CONSTRUCTION TOLERANCES SHALL BE FOLLOWED PER ACI 301.

CONCRETE SLAB ON GROUND

1. SUBGRADE:
   A. TOP 12" OF PAD TO BE COMPACTED TO 95% OPTIMUM DENSITY WITH MAXIMUM 1% VARIANCE. CERTIFICATION MUST BE 24 HOURS BEFORE POURING CONCRETE. THE SUBGRADE BELOW THIS SHOULD BE COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS.
   B. FINISH SUBGRADE PAD ELEVATIONS BEFORE CONCRETE POUR TO BE WITHIN 0 INCH ABOVE OR 1/2 INCH BELOW REQUIRED ELEVATION.
   C. PAD MUST BE MOIST PRIOR TO CONCRETE POUR AND BE FREE OF DEBRIS.
2. CONCRETE MIX AND MATERIALS:
   A. MIX DESIGNS FOR SLAB CONCRETE SHOULD BE PREPARED BY REGISTERED ENGINEER AND MUST BE APPROVED BY THE ARCHITECT/ENGINEER. MIX DESIGN SHOULD INCLUDE PROPORTIONS FOR EACH MATERIAL.
   B. CEMENT SHALL BE TYPE I/II OR TYPE IL AND TESTED PER ASTM STANDARDS. TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER/ARCHITECT ALONG WITH MIX DESIGN.
   C. CONCRETE MUST BE BATCHED FROM THE SAME CONCRETE BATCHING PLANT AND FROM THE SAME AGGREGATE SOURCE FOR ALL SLAB CONCRETE.
   D. SLUMP SHALL NOT VARY MORE THAN 1/2 INCH FROM TRUCK TO TRUCK.
   E. AGGREGATE: UNLESS CONCRETE IS TO BE PUMPED INCORPORATE A PERCENTAGE OF 1 1/2" MAXIMUM SIZE AGGREGATE IN MIX.
   F. FOR STEEL FIBER REINFORCED SLAB ON GROUND, BATCH FIBERS BY MASS AND MIX FOR MINIMUM OF 75 REVOLUTIONS PER ASTM C1116.
3. CONCRETE CURING:
   OPTION 1 (PREFERRED):
   A. WET CURE USING LAMINATED CURING BLANKETS FOR AT LEAST 7 DAYS, STARTING WITHIN 1 HOUR OF FINAL TROWEL PASS.
   OPTION 2:
   A. A MEMBRANE-FORMING CURE AND SEAL MAY BE USED INSTEAD OF WET CURE WHEN THE EVAPORATION RATES ARE LESS THAN OR EQUAL TO 0.10 LB./FT./HR..
   B. ALL MEMBRANE-FORMING CURE SHALL BE DONE USING A COMPOUND CONFIRMING TO ASTM C309 FOR A MINIMUM OF 7 DAYS FROM THE TIME CONCRETE IS POURED. CURING COMPOUND WILL BE CHECKED FOR COMPATIBILITY WITH TILT PANEL BOND BREAKER AND APPROVED BY THE OWNER AND ARCHITECT. USE OF WET CURING IN COMBINATION WITH MEMBRANE-FOAMING CURING IS NOT ACCEPTABLE.
   C. CURING COMPONENT SHALL BE APPLIED UNIFORMLY AND CONSISTENTLY TO THE SURFACE.
4. QUALITY CONTROL:
   A. CONCRETE TRUCKS OR CRANES WILL NOT BE PERMITTED ON SLAB AT ANYTIME.
   B. WITHIN 2 WEEKS AFTER COMPLETION OF SLAB INSTALLATION, THE TESTING AGENCY WILL ISSUE A FINAL REPORT CERTIFYING COMPLIANCE OF THE FLOOR SLAB INSTALLATION WITH THE SPECIFIED TOLERANCES.
   C. MIX CONCRETE ACCORDING TO ASTM C94
5. PERIODIC SPECIAL INSPECTION REQUIRED FOR ALL SLAB ON GROUND.
6. CONSTRUCTION TOLERANCES SHALL BE FOLLOWED PER ACI 301.
7. SHOP DRAWING AT CONSTRUCTION JOINT FOR REBAR AND DOWEL ASSEMBLY SHALL BE SUBMITTED TO SEOR FOR REVIEW AND APPROVAL

REINFORCING STEEL

1. A. ALL REINFORCING STEEL TO CONFORM TO ASTM SPECIFICATION A615 GRADE 60 UNLESS NOTED OTHERWISE ON PLANS.
   B. DEFORMATIONS SHALL BE IN ACCORDANCE WITH ASTM A615.
   C. ALL REINFORCEMENT TO BE WELDED SHALL CONFORM TO ASTM A706
2. UNLESS OTHERWISE NOTED, ALL REINFORCING STEEL SHALL BE LAPPED A MINIMUM OF 64d (#3 THRU #6) AND $80d_b$ (#7 THRU #11). ALL SPLICES SHALL BE LOCATED AS DETAILED IN PLANS.
3. CERTIFICATION AND TESTING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF ASTM STANDARDS.
4. ALL REINFORCING STEEL SHALL BE SUPPORTED AND TIED IN CONFORMANCE WITH "THE MANUAL OF REINFORCING STEEL PRACTICE FOR REINFORCED CONCRETE STRUCTURES" LATEST EDITION.
5. PROVIDE THE FOLLOWING MINIMUM PROTECTIVE COVERING OF CONCRETE UNLESS OTHERWISE NOTED:
   DEPOSITED AGAINST EARTH 3" CLEAR
   IN CONTACT WITH EARTH (FORMED) 2" CLEAR
6. WELDED WIRE REINFORCEMENT SHALL BE DEFORMED BARS CONFORMING TO ASTM A 1064 (GRADE 80)
7. CONSTRUCTION TOLERANCES SHALL BE FOLLOWED PER ACI 301.

CONCRETE

1. CEMENT: TYPE I/II CONFORMING TO ASTM C150 OR TYPE IL CONFORMING TO ASTM C595.
2. ALL CONCRETE AGGREGATES UNLESS OTHERWISE NOTED ON PLANS, SHALL BE REGULAR WEIGHT HARD ROCK TYPE (150 LB/ CU. FT.) AND SHALL CONFORM TO ASTM C33. DO NOT CHANGE SOURCE OF AGGREGATE DURING COURSE OF WORK WITHOUT PRIOR WRITTEN ACCEPTANCE OF THE ARCHITECT. FOR CONCRETE SHRINKAGE LIMITS REFER TO CONCRETE MIX DESIGN TABLE.
3. STRENGTHS: ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE f'_c = * CONCRETE MIX DESIGN TABLE.
4. VIBRATION: VIBRATION OF CONCRETE SHALL BE IN ACCORDANCE WITH GENERAL PROVISIONS OUTLINED IN PORTLAND CEMENT ASSOCIATION SPECIFICATION ST26.
5. CURING: CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF FIVE DAYS AFTER ITS PLACEMENT. FOR CONCRETE OTHER THAN SLAB ON GROUND, APPROVED CURING COMPOUNDS MAY BE IN LIEU OF MOIST CURING. IF APPROVED BY THE OWNER AND ARCHITECT.
6. TESTS OF CONCRETE DURING CONSTRUCTION SHALL BE REQUIRED AS PER CBC SECTION 1903 ACI 318-19 SECTION 26.12 AND AS OUTLINED IN SPECIFICATION
   REPORTS SHALL BE FORWARDED TO THE STRUCTURAL ENGINEER.
   A. RESPONSIBILITY FOR TESTING
      1. OWNER SHALL ENGAGE ONE OR MORE TESTING FIRMS AND SHALL PAY FOR THE FOLLOWING TESTS:
         a. SLUMP TESTS DURING CONSTRUCTION.
         b. CONCRETE-STRENGTH TESTS DURING CONSTRUCTION.
         c. AIR-CONTENT TESTS DURING CONSTRUCTION IN COLD WEATHER CONCRETE ONLY.
         d. SURFACE-TOLERANCE TESTS DURING CONSTRUCTION PER ARCHITECTURAL SPECIFICATIONS.
         e. AT OWNER'S OPTION, SHRINKAGE TESTS DURING CONSTRUCTION.
         f. AT OWNER'S OPTION, UNIT WEIGHT TESTS.
         g. AT OWNER'S OPTION, WEAR-RESISTANCE TESTS.
      2. THE CONTRACTOR SHALL PAY FOR THE FOLLOWING TESTS:
         a. ALL TESTS NEEDED TO ESTABLISH THE CONCRETE MIX DESIGN, INCLUDING TEST FOR FLEXURAL STRENGTH, SHRINKAGE, AND RESIDUAL STRENGTH.
         b. ALL ADDITIONAL TESTS NEEDED TO ESTABLISH THE WORK'S ACCEPTABILITY AFTER A FAILURE TO MEET ANY SPECIFIED REQUIREMENT.
   B. SLUMP TESTS
      1. TEST CONCRETE FOR SLUMP ACCORDING TO ASTM C143.
      2. MAKE AT LEAST ONE SLUMP TEST FOR EACH 150 CUBIC YARDS OF CONCRETE OR AT LEAST ONE PER POUR, AND WHENEVER A BATCH APPEARS TOO WET OR TOO DRY.
      3. IF CONCRETE IS PUMPED, TEST SLUMP AT THE DOWNSTREAM END OF THE PUMP LINE.
   C. STRENGTH TESTS
      1. COMPRESSIVE STRENGTH
         a. TEST CONCRETE'S COMPRESSIVE STRENGTH ACCORDING TO ASTM C39.
         b. USE 6"X12" CYLINDER MOLDS.
         c. FOR FOUNDATION AND PANELS: MAKE FIVE TEST CYLINDERS FOR EACH 150 CUBIC YARDS OF CONCRETE, TESTING ONE AT 7 DAYS, ONE AT 28 DAYS, TWO AT 56 AND HOLDING ONE.
         d. FOR SLAB ON GROUND: MAKE FOUR TEST CYLINDERS FOR EACH 150 CUBIC YARDS OF CONCRETE, TESTING ONE AT 7 DAYS, TWO AT 28 DAYS, AND HOLDING ONE.
      2. FLEXURAL STRENGTH FOR SLAB ON GROUND AND TRUCK COURT
         a. TEST CONCRETE FLEXURAL STRENGTH ACCORDING TO ASTM C78.
         b. MAKE FOUR 6"X6"X20" BEAMS FOR EACH POUR DAY, TESTING TWO AT 28 DAYS AND TWO AT 56 DAYS.
      3. RESIDUAL STRENGTH FOR STEEL FIBER REINFORCED SLAB ON GROUND ONLY
         a. TEST CONCRETE'S RESIDUAL STRENGTH ACCORDING TO ASTM C1609.
         b. MAKE THREE 6"X6"X20" BEAMS FOR TESTING RESIDUAL STRENGTH AT EVERY POUR. REPORT BOTH THE MODULUS OF RUPTURE (PEAK LOAD) AND THE RE,3 VALUE FOR EACH BEAM AT 28 DAYS.
   D. AIR-CONTENT TESTS FOR COLD WEATHER CONCRETE ONLY:
      1. TEST CONCRETE FOR AIR CONTENT ACCORDING TO ASTM C231.
      2. A MINIMUM OF ONE AIR CONTENT TEST FOR EACH 150 CUBIC YARDS OF CONCRETE.
   E. FF AND FL TESTS PER ARCHITECTURAL SPECIFICATIONS.
   F. AT OWNER'S OPTION SHRINKAGE TESTS:
      1. MEASURE DRYING SHRINKAGE PER AIR STORAGE METHOD ACCORDING TO ASTM C157.
      2. THE CURING PERIOD (NOT THE AIR-STORAGE PERIOD) MAY BE REDUCED TO 7 DAYS.
      3. REPORT SHRINKAGE AFTER 7, 14, 21, AND 28 DAYS OF AIR STORAGE.
   G. AT OWNER'S OPTION, UNIT-WEIGHT TESTS:
      1. TEST CONCRETE UNIT WEIGHT ACCORDING TO ASTM C138.
      2. MAKE AT LEAST ONE UNIT WEIGHT TEST FOR EACH 150 CUBIC YARDS OF CONCRETE OR AT LEAST ONE PER POUR.
   H. AT OWNER'S OPTION, WEAR-RESISTANCE TESTS:
      1. TEST WEAR RESISTANCE WITH A CHAPLIN ABRASION TESTER, USING THE STANDARD 15-MINUTE TEST.
      2. IT IS EXPECTED THAT WEAR-RESISTANCE TESTS WILL BE MADE ONLY IF DOUBTS ARE RAISED ABOUT THAT SLAB'S DURABILITY.
      3. TEST SHALL BE PERFORMED AFTER MINIMUM OF 28 DAYS OF POUR..
7. REINFORCING STEEL, ANCHOR BOLTS, DOWELS, INSERTS, ETC. SHALL BE SECURELY TIED IN PLACE PRIOR TO POURING CONCRETE.
8. LOCATION OF CONSTRUCTION AND POUR JOINTS SHALL BE APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO POURING CONCRETE.
9. CONCRETE FORM WORK TOLERANCES SHALL BE IN ACCORDANCE WITH IBC AND ACI STANDARDS.
10. GROUT UNDER PRECAST CONCRETE PANELS SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH TO MATCH PANEL OF HIGHEST STRENGTH.
11. HOT AND COLD WEATHER CONCRETING:
    A. HOT WEATHER CONCRETING: DO NOT USE CONCRETE WITH TEMPERATURE OVER 90° WHEN THE TEMPERATURE RISES ABOVE 80° F AND ESPECIALLY WHEN THE RELATIVE HUMIDITY FALLS BELOW 25%,THE CONTRACTOR SHOULD FOLLOW HOT WEATHER CONCRETING IN ACCORDANCE WITH ACI 305R (LATEST EDITION) DURING HOT WEATHER. BE PREPARED TO USE FOG SPRAY OR OTHER PRECAUTIONS ACCEPTABLE TO ARCHITECT WHEN RATE OF EVAPORATION EQUALS OR EXCEEDS 0.2 POUNDS PER SQUARE FOOT PER HOUR. REFER TO SURFACE EVAPORATION CHART ON THIS SHEET TO ESTIMATE RATE OF SURFACE UNDER EVAPORATION.
    B. COLD WEATHER CONCRETE: ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND PROTECTING CONCRETE DURING FREEZING OR NEAR FREEZING WEATHER. ALL CONCRETE MATERIALS AND ALL REINFORCEMENT FORMS, FILLERS AND GROUND WITH WHICH THE CONCRETE IS TO COME IN CONTACT SHALL BE FREE FROM FROST. FROZEN MATERIAL OR MATERIALS CONTAINING ICE SHALL NOT BE USED. COLD WEATHER CONDITIONS WILL DONE IN ACCORDANCE WITH ACI 306R (LATEST EDITION). AIR CONTENT NOT TO EXCEED 3.0%
12. CONSTRUCTION TOLERANCES SHALL BE FOLLOWED PER ACI 301.
13. TESTING ON DEEP FOUNDATIONS SHALL BE PERFORMED WITH GEOR WHEREVER THERE IS A REASONABLE DOUBT ON STRUCTURAL INTEGRITY.

CONCRETE MIX DESIGN

USE	DESIGN	MIX DESIGN (fc MIN. AT 28 DAYS)	MIX DESIGN (fc MIN. AT 56 DAYS)	SLUMP	AGGREGATE LARGEST SIZE IN GRADATION U.N.O.	INSPECTION	MINIMUM FLEXURAL STRENGTH (ASTM C78)	ULTIMATE SHRINKAGE (ASTM C157) 7 DAYS	28 DAYS
1. PAD FOOTINGS	2500 PSI	3000 PSI	–	4" ± 1" MAX.	1½"	NO		–	–
2. CONTINUOUS FOOTINGS	3000 PSI	3000 PSI	–	4" ± 1" MAX.	1½"	YES		–	–
3. SLAB ON GROUND	4000 PSI	4000 PSI	–	6" ± 1" MAX.	1½"	YES	570 PSI	0.18%	0.04%
4. PANELS (U.N.O. ON PANEL ELEV.)	4400 PSI	4400 PSI	4400 PSI	4" ± 1" MAX.	1"	YES		–	0.05%
5. SCREEN, RAMP PANELS	3000 PSI	3000 PSI	–	4" ± 1" MAX.	1"	YES		–	0.05%
6. MISCELLANEOUS	2500 PSI	3000 PSI	–	4" ± 1" MAX.	1"	NO		–	–
9. GRADE BEAMS	4000 PSI	4000 PSI	–	4" ± 1" MAX.	1½"	YES		–	–

A. ALTERNATE MIX DESIGN
   1. UPON OWNER'S DISCRETION AND/OR RESOURCE AVAILABILITY, ONE OR MORE OF THE SUBSEQUENT OPTIONS MAY BE INCORPORATED IN THE MIX DESIGN ABOVE – TYPE IL, FLY ASH, SLAG, NATURAL POZZOLANS, HIGH QUALITY LOW SHRINKAGE AGGREGATE (EG: ORCA) CARBON CURE. EACH SELECTED OPTION MAY BE UTILIZED IN ANY COMBINATION FOR ANY COMPONENT(S).
   2. FLY ASH SHALL CONFORM TO ASTM C618 AND SHALL NOT EXCEED 20% OF THE TOTAL CEMENTITIOUS CONTENT.
   3. SLAG SHALL CONFORM TO ASTM C989 AND SHALL NOT EXCEED 30% OF THE TOTAL CEMENTITIOUS CONTENT.
   4. NATURAL POZZOLAN SHALL CONFORM TO ASTM C618 AND SHALL NOT EXCEED 20% OF THE TOTAL CEMENTITIOUS CONTENT.
   5. HIGH QUALITY LOW SHRINKAGE AGGREGATE (E.G. ORCA) AGGREGATE SHALL BE 1" TOP SIZE.
   6. CARBON CURE OR OTHER CO_2 SEQUESTRATION METHOD MAY BE USED WITH PERMISSION OF THE ARCHITECT.
B. MIX DESIGN SHOWN ABOVE ARE FOR NEGLIGIBLE SULFATE EXPOSURE (S0). THE GEOTECHNICAL ENGINEER SHALL PROVIDE SULFATE EXPOSURE OF THE SITE.
C. REQUIREMENTS FOR CONCRETE BY SULFATE EXPOSURE PER ACI 318, TABLE 19.3.2.1

SULFATE EXPOSURE	CEMENT CONFORMING TO ASTM C150(i)	CEMENT CONFORMING TO ASTM C595(i)	f'c MIN.	MAX. WATER CEMENT RATIO (W/C)
S0 (NEGLIGIBLE)	NO TYPE RESTRICTION	NO TYPE RESTRICTION	2500 PSI	N/A
S1 (MODERATE)	II(ii)	TYPES IP, IS OR IT WITH (MS) DESIGNATION	4000 PSI	0.5
S2 (SEVERE)	V(ii)	TYPES IP, IS OR IT WITH (HS) DESIGNATION	4500 PSI	0.45
S3 (VERY SEVERE)	V PLUS POZZOLAN OR SLAG CEMENT	TYPES IP, IS OR IT WITH (HS) DESIGNATION PLUS POZZOLAN OR SLAG CEMENT	4500 PSI	0.45

i. ALTERNATIVE COMBINATIONS OF CEMENTITIOUS MATERIALS TO THOSE LISTED ARE PERMITTED FOR ALL SULFATE EXPOSURE CLASSES WHEN TESTED FOR SULFATE RESISTANCE AND MEETING THE CRITERIA IN ACI 318-19: 26.4.2.2(C)

ii. OTHER AVAILABLE TYPES OF CEMENT SUCH AS TYPE I OR TYPE III ARE PERMITTED IN EXPOSURE CLASS S1 OR S2 IF THE C_3A CONTENTS ARE LESS THAN 8 PERCENT FOR EXPOSURE CLASS S1 OR LESS THAN 5 PERCENT FOR EXPOSURE CLASS S2.

STRUCTURAL OBSERVATION NOTES PER IBC SECTION 1704.6

1. THE FOLLOWING ITEMS REQUIRE STRUCTURAL OBSERVATION BY A LICENSED ENGINEER OR ARCHITECT.
   A. FOUNDATION REINFORCEMENT PLACEMENT (FIRST POUR AND RANDOM INTERMITTENT POURS)
   B. PANEL REINFORCEMENT PLACEMENT (FIRST POUR AND RANDOM INTERMITTENT POURS)
   C. ROOF FRAMING AND DIAPHRAGM
   D. MEZZANINE FLOOR FRAMING AND DIAPHRAGM
   E. STEEL BRACED FRAMES
   F. STEEL MOMENT FRAMES
   G. STEEL TRUSS MOMENT FRAMES
2. THE OWNER SHALL EMPLOY THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN OR ANOTHER ENGINEER OR ARCHITECT DESIGNATED BY THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN TO PERFORM STRUCTURAL OBSERVATION AS DEFINED IN IBC SECTION 220.
3. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, CONTRACTOR AND THE BUILDING OFFICIAL.
4. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.
5. IT IS NOT REQUIRED TO OBSERVE THE ELEMENTS NOTED IN "1A" THRU "1G" ABOVE FOR EACH INDIVIDUAL BUILDING.

STRUCTURAL STEEL

1. STRUCTURAL STEEL AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 U.N.O.
   ALL STEEL BENT PLATES, CHANNELS AND ANGLES SHALL BE ASTM A36 WITH MAXIMUM Fy=36 KSI AND MAXIMUM Fu=80 KSI.
   STEEL W- SHAPES SHALL CONFORM TO ASTM A992 U.N.O.
   STEEL RECTANGULAR AND SQUARE H.S.S. SHALL CONFORM TO ASTM A500, GRADE C, Fy=50 KSI U.N.O.
   STEEL ROUND H.S.S. SHALL CONFORM TO ASTM A500, GRADE C, Fy=46 KSI U.N.O.
   STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE B, Fy=35 KSI U.N.O.
2. ALL WELDING IS TO COMPLY WITH A.W.S. SPECIFICATIONS AND IS TO BE DONE BY WELDERS APPROVED BY THE DEPARTMENT OF BUILDING AND SAFETY. ALL WELDING WILL BE DONE BY ELECTRONIC ARC PROCESS USING E70XX ELECTRODES AND SHALL BE PERFORMED WITH APPROVED ELECTRODES AS REQUIRED BY THE AISC SPECIFICATION. WELDS ARE DESIGNED AT FULL STRESS AND MUST BE DONE IN THE SHOP OF A LICENSED FABRICATOR EXCEPT WHERE OTHERWISE NOTED ON PLANS. SPECIAL INSPECTION IS REQUIRED FOR FIELD WELDS.
3. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED BY A LICENSED FABRICATOR, APPROVED BY THE BUILDING DEPARTMENT AND IN CONFORMANCE WITH THE AISC SPECIFICATION FOR FABRICATION.
4. SHOP DRAWINGS FOR ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER. APPROVAL MUST BE OBTAINED PRIOR TO FABRICATION.
5. ALL GROUT UNDER STEEL BEARING PLATES SHALL BE SOLID DRY PACK OR NON-SHRINK GROUT PLACED AS DIRECTED BY THE MANUFACTURER. MINIMUM COMPRESSIVE STRENGTH SHALL BE 4000 PSI AT 28 DAYS.
6. AT RECESSED EMBEDED PLATES, TACK WELD WIRE FABRIC TO ALL EMBEDS AND FILL WITH NON-SHRINK GROUT.
7. ALL BOLTS SHALL CONFORM TO ASTM A307 UNLESS NOTED OTHERWISE.
8. HIGH STRENGTH BOLTS WHERE SPECIFIED SHALL CONFORM TO ASTM A325 U.N.O. AND INSTALLATION SHALL BE INSPECTED BY A REGISTERED DEPUTY INSPECTOR APPROVED BY THE BUILDING DEPARTMENT
9. NUTS FOR STRUCTURAL STEEL BOLTS SHALL CONFORM TO ASTM A563.
10. WASHERS FOR STRUCTURAL STEEL BOLTS SHALL CONFORM TO ASTM F436.
11. THREADED RODS SHALL CONFORM TO ASTM A36.
12. ANCHOR BOLTS FOR BUCKLING-RESTRAINED BRACE FRAME SHALL CONFORM TO ASTM F1554 GR.105
13. LIGHT GAUGE STRUCTURAL STEEL MEMBERS SHALL CONFORM TO ASTM A1011.
14. ALL EXPOSED STEEL SHALL BE PAINTED WITH SHOP PRIMER.
15. SEE ROOF FRAMING PLAN FOR BAR JOIST SPECIFICATIONS.
16. THE USE OF ROLLED STEEL SECTION AND/OR BOLTS MANUFACTURED OUTSIDE THE UNITED STATES WILL REQUIRE VERIFICATION THAT THE PRODUCTS COMPLY WITH APPLICABLE ASTM STANDARDS. MILL CERTIFICATES WILL BE REQUIRED FOR ALL STEEL. STEEL GRADES OTHER THAN ASTM A36 WILL REQUIRE TESTING BY AN APPROVED LABORATORY. ALL FOREIGN BOLTS MUST BE APPROVED BY COUNTY BUILDING AND SAFETY PRIOR TO THEIR USE.
17. FOR STEEL BUCKLING-RESTRAINED BRACED FRAME OR SPECIAL MOMENT FRAMES, SEE SHEET "SD-5"

STATEMENT OF SPECIAL INSPECTION AND STRUCTURAL TEST

1. THIS SECTION APPLIES TO THE STRUCTURAL PORTIONS OF THE PROJECT REQUIRING SPECIAL INSPECTION. THE SPECIAL INSPECTOR'S DUTIES ARE AS DESCRIBED IN SEC. 1704.2 AND 1704.3 OF IBC COPIES OF TEST RESULTS AND FINAL REPORTS SHALL BE FURNISHED TO THIS ENGINEER IN ADDITION TO OTHER NORMAL DISTRIBUTIONS WITHIN ONE WEEK OF TEST OR INSPECTION.
2. ALL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AND INSPECTION AGENCY EMPLOYED BY THE OWNER OR ARCHITECT AND NOT THE CONTRACTOR PER IBC SECTION 1703. JOB SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE A SPECIAL INSPECTION. THE FIRM PROVIDING SPECIAL INSPECTION SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. (NOTE: FOUNDATION INSPECTIONS LISTED BELOW ARE PROVIDED BY AN INSPECTOR DESIGNATED BY OTHERS)
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND INSPECTION FIRM WITH A SCHEDULE TO FACILITATE THE PROPER COORDINATION OF WORK.
4. SPECIAL INSPECTION FOR SEISMIC RESISTANCE FOR DESIGN CATEGORY C,D,E & F SHALL BE DONE IN ACCORDANCE TO SECTION 1705.12
5. PORTIONS OF WORK REQUIRING SPECIAL INSPECTION: (YES / NO / N/A)
   I. FOUNDATION:
      A. COMPACTED FILL, GRADING AND EXCAVATIONS — ■ ☐ ☐
      B. CONTINUOUS INSPECTION OF PILE DRIVING AND/OR DRILLING OF CAISSONS. — ☐ ☐ ■
      C. SEE IBC TABLE 1705.3 BELOW FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION
   II. CONCRETE:
      A. CONTINUOUS INSPECTION AND TEST CYLINDERS FOR STRUCTURAL CONCRETE EXCEPT FOUNDATION CONCRETE OF 2500 PSI OR LESS — ■ ☐ ☐
      B. CONTINUOUS INSPECTION FOR SLAB-ON-GRADE CONCRETE — ■ ☐ ☐
      C. TEST CYLINDERS FOR SLAB-ON-GRADE CONCRETE — ■ ☐ ☐
      D. SEE IBC TABLE 1705.3 BELOW FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION
      E. SHRINKAGE TESTS PER ASTM C157 SLAB ON GROUND, SLAB ON METAL DECK, APRON SLAB, TILT-UP PANELS & SITE PANELS — ■ ☐ ☐
   III. REINFORCING STEEL:
      A. PLACING OF REINFORCING — ■ ☐ ☐
      B. SAMPLING AND TESTING OF STEEL (MILL REPORTS AND IDENTIFICATION OF STEEL) — ■ ☐ ☐
      C. SEE IBC TABLE 1705.3 BELOW FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION
   IV. MASONRY:
      A. CONTINUOUS INSPECTION — ■ ☐ ☐
      B. MASONRY PRISM TESTING PER ASTM C 1314 AND 2105.3 — ☐ ■ ☐
      C. SEE TABLE 3.1.2 OF TMS 602-13/ACI 530.1-13/ASCE 5-13 BELOW FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION
   V. STRUCTURAL STEEL:
      A. MILL REPORTS AND IDENTIFICATION OF STEEL (AFFIDAVIT OF COMPLIANCE) — ■ ☐ ☐
      B. SAMPLING AND TESTING OF SPECIMENS — ■ ☐ ☐
      C. SEE TABLES N5.4-1 THRU N5.4-3 AND TABLES N5.6-1 THRU N5.6-3 OF AISC 360-16 FOR ALL STRUCTURAL STEEL.
      D. SEE TABLES J6-1 THRU J6-3, TABLES J7-1 THRU J7-3 AND TABLE J8-1 OF AISC 341-16 FOR ALL SEISMIC RESISTING STRUCTURAL STEEL ELEMENTS IN SEISMIC DESIGN CATEGORIES C,D,E & F.
      E. SPECIAL INSPECTIONS AND QUALIFICATION OF WELDING SPECIAL INSPECTORS FOR COLD-FORMED STEEL FLOOR AND ROOF DECK SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI QA/QC.
      F. SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS SHALL BE IN ACCORDANCE WITH TABLE 1705.2.3.
   VI. WELDING:
      A. ALL STRUCTURAL WELDING (INCLUDES DECKING AND WELDED STUDS), EXCEPT WELDING IN APPROVED SHOPS PER IBC 1704.2.5.1 — ■ ☐ ☐
      B. ULTRASONIC TESTING OF FULL PENETRATION WELD CONNECTIONS AT MOMENT FRAMES, BRACED FRAMES, BEAM SPLICES, AND FIELD WELDS. — ■ ☐ ☐
      C. STRUCTURAL LIGHT GAGE METAL FRAME WELDING. — ☐ ☐ ■
      D. REINFORCING STEEL WELDING PER AISC 360-16 AND AISC 341-16. — ■ ☐ ☐
      E. SEE TABLES N5.4-1 THRU N5.4-3 OF AISC 360-16 FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION
      F. SEE TABLES J6-1 THRU J6-3 OF AISC 341-16 FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECTION OF WELDING FOR SEISMIC DESIGN CATEGORY C,D,E & F.
   VII. BOLTING:
      A. HIGH STRENGTH BOLT A325SC & A490SC (TORQUE VERIFICATION). — ■ ☐ ☐
      B. HIGH STRENGTH BOLT A325N & A490N (SNUG CONTACT OF PLYS). — ■ ☐ ☐
      C. EXPANSION/ADHESIVE ANCHORS IN CONCRETE OR MASONRY. — ■ ☐ ☐
      D. ANCHOR BOLTS AT CONCRETE WALLS AND BRACED FRAMES, (BOLT INSTALLATION AND CONCRETE PLACEMENT) — ■ ☐ ☐
      E. SEE TABLES N5.6-1 THRU N5.6-3 OF AISC 360-16 FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION.
      F. SEE TABLES J7-1 THRU J7-3 OF AISC 341-16 FOR ANY ADDITIONAL REQUIRED VERIFICATION AND INSPECTION OF BOLTING FOR SEISMIC DESIGN CATEGORY C,D,E & F.
   VIII. INSULATING CONCRETE FILL: TEST CYLINDERS AND INSPECTIONS — ☐ ☐ ■
   IX. APA RATED SHEATHING DIAPHRAGM WITH NAILING ZONE "B" TO "G" AND PLYWOOD SHEAR WALLS. INSPECTION OF SHEATHING, NAIL DIAMETER & LENGTH, NAILING LINES, NAIL SPACING, AND FRAMING WIDTH AT NAIL DIAMETER & LENGTH, NAILING LINES, NAIL SPACING, AND FRAMING WIDTH AT ADJOINING EDGES, PANEL, EDGES, VERIFY APA STAMP, DRAG STRUTS, SILL ANCHORAGE AND HOLDDOWN ANCHORS — ■ ☐ ☐
6. APPROVED FABRICATORS: (MUST SUBMIT CERTIFICATE OF COMPLIANCE) FOR ALL OFFSITE FABRICATION SUCH AS STRUCTURAL STEEL, GLU-LAMS. PRECAST CONCRETE ETC. — ■ ☐ ☐
7. STRUCTURAL OBSERVATIONS REQUIRED. — ■ ☐ ☐
   AS BY THIS ENGINEER OR THE BUILDING DEPARTMENT, THE OWNER SHALL EMPLOY AN ENGINEER APPROVED BY THIS ENGINEER TO PERFORMED STRUCTURAL OBSERVATION AS DEFINED IN IBC SECTION 1704.6
8. EACH CONTRACTOR OR SUB-CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A WIND OR SEISMIC FORCE RESISTING SYSTEM/ COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON SUCH SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.
9. INSTALLATION OF STORAGE RACKS WHERE APPLICABLE INSIDE THE BUILDING REQUIRES SPECIAL INSPECTION.

TABLE 1705.2.3 (IBC-2021)
REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD[a]
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS.			
a. END CONNECTIONS – WELDING OR BOLTED.	—	X	SJI SPECIFICATIONS LISTED IN SECTION 2207.1.
b. BRIDGING – HORIZONTAL OR DIAGONAL	—	—	—
1. STANDARD BRIDGING.	—	X	SJI SPECIFICATIONS LISTED IN SECTION 2207.1.
2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1.	—	X	—

FOR SI: 1 INCH=25.4 mm.
a: WHERE APPLICABLE, SEE ALSO SECTION 1705.13, SPECIAL INSPECTION FOR SEISMIC RESISTANCE.

TABLE 1705.3 (IBC-2021)
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARDS[a]	CBC REFERENCE
1. INSPECTION OF REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	—	X	ACI 318: CH. 20, 25.2 25.3, 26.6.1–26.6.3	—
2. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706; b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND c. INSPECT ALL OTHER WELDS.	a. — b. — c. X	a. X b. X	AWS D1.4 ACI 318: 26.6.4	—
3. INSPECTION OF ANCHORS CAST IN CONCRETE.	—	X	ACI 318: 17.8.2, 26.7.2, 26.8.2,	—
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.[c] b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	a. X	b. X	a. ACI 318: 17.8.2.4 b. ACI 318: 17.8.2	—
5. VERIFYING USE OF REQUIRED DESIGN MIX.	—	X	ACI 318: CH. 19 26.4.3, 26.4.4	1904.1, 1904.2
6. PRIOR TO CONCRETE PLACEMENT FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	—	ASTM C 172 ASTM C 31 ACI 318: 26.5, 26.12	—
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	—	ACI 318: 26.5	—
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	—	X	ACI 318: 26.5.3–26.5.5	—
9. INSPECTION OF PRESTRESSED CONCRETE: a. APPLICATION OF PRESTRESSING FORCES. b. GROUTING OF BONDED PRESTRESSING TENDONS.	a. X b. X	a. — b. —	ACI 318: 26.10	—
10. ERECTION OF PRECAST CONCRETE MEMBERS.	—	X	ACI 318: 26.9.2	—
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 FILED FOR: a. INSTALLATION OF THE EMBEDDED PARTS. b. COMPLETTION OF THE CONTINUITY OF REINFORCEMENT ACROSS JONTS. c. COMPLETETION OF CONNECTIONS IN THE FIELD.	a. X b. X c. X	a. — b. — c. —	ACI 318: 26.13.1.3 ACI 550.5	—
12. INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5.	—	X	ACI 318: 26.13.1.3	—
13. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	—	X	ACI 318: 26.11.2	—
14. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	—	X	ACI 318: 26.11.1.2(b)	—

FOR SI: 1 INCH=25.4 mm.
a: WHERE APPLICABLE, SEE ALSO SECTION 1705A.12, SPECIAL INSPECTION FOR SEISMIC RESISTANCE.
b: SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN 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 COMMENCEMENT OF THE WORK.
c: INSTALLATION OF AL ADHESIVE ANCHORS IN HORIZONTAL AND UPWARDLY INCLINED POSITION SHALL BE PERFORMED BY AN ACI/CRSI CERTIFIED ADHESIVE ANCHOR INSTALLER, EXCEPT WHERE THE DESIGN TENSION ON THE ANCHORS IS LESS THAN 100 POUNDS AND THOSE ANCHORS ARE CLEARLY NOTED ON THE APPROVED CONSTRUCTION DOCUMENTS OR WHERE THE ANCHORS ARE SHEAR DOWELS ACROSS COLD IN SLABS ON GRADE WHERE THE SLAB IS NOT PART OF THE LATERAL FORCE-RESISTING SYSTEM.

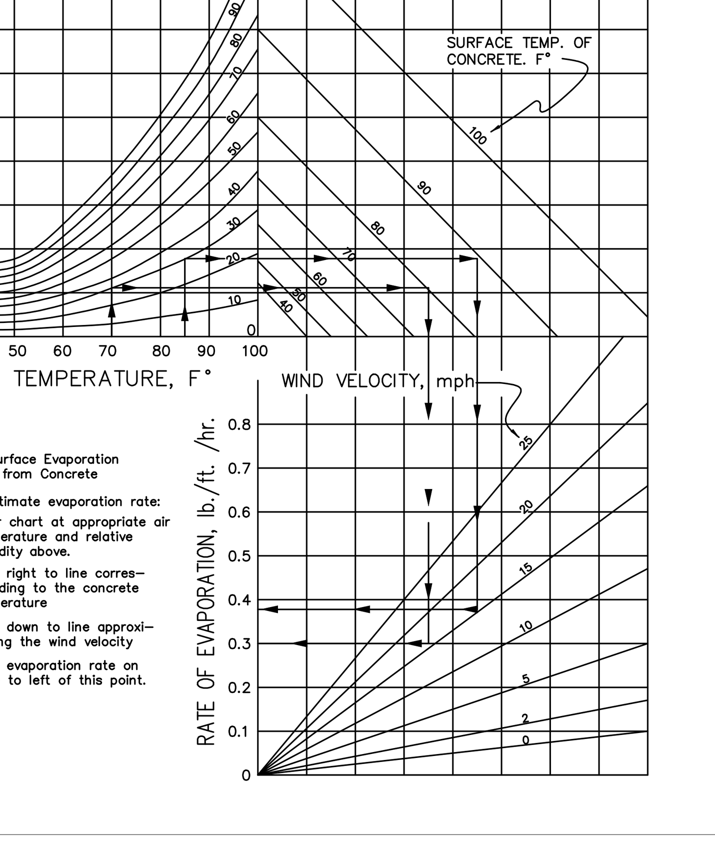
TABLE 1705.6 (IBC-2021)
REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	—	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	—	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	—	X
4. DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFE THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	—
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	—	X

DEFERRED SUBMITTAL ITEMS

1. FOLLOWING STRUCTURAL ITEMS ARE DEFERRED SUBMITTAL:
   A. ROOF BAR JOISTS AND JOIST GIRDERS
   B. ENTRY MONUMENT SIGN (FOUNDATION & ANCHORAGE)
   C. WROUGHT IRON GATE
   D. LIGHT POLE SHAFT, BASE PLATE AND ANCHOR BOLT
   E. ROOF ACCESS LADDER AND ITS ANCHORAGE (PLATFORM IF REQUIRED)
   F. GLAZE AND GLAZING STORE FRONT FRAMING.
2. THE DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
3. TRUSS FABRICATION NOTES:
   A. SHOP DRAWINGS AND STRUCTURAL DRAWINGS SHALL BE SUBMITTED FOR APPROVAL TO THE ARCHITECT OR ENGINEER OF RECORD PRIOR TO BEING SUBMITTED FOR REVIEW TO THE BUILDING OFFICIAL.
   B. THE STRUCTURAL DESIGN OF TRUSSES SHALL INCLUDE ALL DEAD AND LIVE LOADS REQUIRED BY THE INTERNATIONAL BUILDING CODE, INCLUDING FIRE SPRINKLER LOADS, HVAC EQUIPMENT LOADS AND ALL CHORD AXIAL LOADS DUE TO SEISMIC FORCES.
   C. THE BUILDING DEPARTMENT WILL NOT PERFORM A ROOF SHEATHING OR FRAMING INSPECTION UNTIL THE CITY APPROVED TRUSS PLANS ARE ON THE JOB SITE AND AVAILABLE FOR INSPECTION.

SURFACE WATER EVAPORATION



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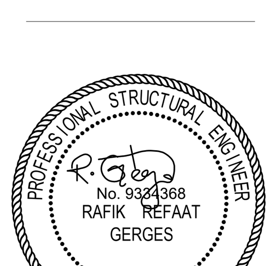

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HSA PROJECT NO. : 25-117
DRAWN BY : T.T./M.F.

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CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

SHEET TITLE:
GENERAL NOTES

SD0.0

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(NOT FOR BID OR CONSTRUCTION)

MASONRY (CONCRETE BLOCK)

1. MASONRY CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF ACI 530–2016.
2. CONCRETE BLOCK SHALL BE HOLLOW LOAD–BEARING CONCRETE MASONRY UNITS CONFORMING TO C90, MEDIUM WEIGHT. USE OPEN END UNITS AS REQUIRED, AND BOND BEAM UNITS AT HORIZONTAL REINFORCING. MINIMUM COMPRESSIVE STRENGTH OF BLOCKS AS REQUIRED TO MEET SPECIFIED COMPRESSIVE STRENGTH OF MASONRY (f'm) SPECIFIED ON THE CONSTRUCTION DOCUMENTS.
3. SPECIFIED COMPRESSIVE STRENGTH OF MASONRY, f'm SHALL BE AS FOLLOWS:
   f'm = 1500 PSI AT 28 DAYS, TYPICAL UNLESS NOTED OTHERWISE.
4. DEPUTY INSPECTOR SHALL VERIFY SPECIFIED COMPRESSIVE STRENGTH OF MASONRY IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS AS DEFINED IN SECTION 2105 OF THE INTERNATIONAL BUILDING CODE:
   UNIT STRENGTH METHOD
   PRISM TEST METHOD
5. CEMENT SHALL BE AS SPECIFIED FOR CONCRETE.
6. MORTAR MIX SHALL CONFORM TO THE ASTM C270 REQUIREMENTS FOR TYPE S. MORTAR SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH AS REQUIRED TO MEET THE SPECIFIED COMPRESSIVE STRENGTH OF MASONRY (f'm). IN NO CASE SHALL THE COMPRESSIVE STRENGTH OF THE MORTAR BE LESS THAN OF 1800 PSI AT 28 DAYS.
7. PROVIDE GROUT COMPLYING WITH ASTM C476 ATTAINING A MINIMUM COMPRESSIVE STRENGTH AS REQUIRED TO MEET THE SPECIFIED COMPRESSIVE STRENGTH OF MASONRY (f'm). IN NO CASE, THE COMPRESSIVE STRENGTH OF THE GROUT SHALL BE NOT LESS THAN 2000 PSI AT 28 DAYS.
8. ADMIXTURES SHALL BE ADDED TO MORTAR OR GROUT RESPECTIVELY PER MANUFACTURER'S RECOMMENDATIONS.
9. PROVIDE A MINIMUM OF ONE BAR DIAMETER (1/2 INCH MINIMUM) GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS.
10. PROVIDE A MINIMUM OF ONE BAR DIAMETER (1 INCH MINIMUM) GROUT BETWEEN PARALLEL BARS.
11. ALL CELLS IN CONCRETE BLOCKS SHALL BE FILLED SOLID WITH GROUT, UNLESS NOTED OTHERWISE.
12. CELLS SHALL BE IN VERTICAL ALIGNMENT. DOWELS IN FOOTINGS AND FLOORS SHALL BE SET TO ALIGN WITH CORES CONTAINING REINFORCING STEEL AND SHALL MATCH THE SIZE OF THE WALL REINFORCING.
13. REFER TO ARCHITECTURAL DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN, AND JOINT TYPE.
14. IF WORK IS STOPPED FOR AN HOUR OR LONGER, PROVIDE HORIZONTAL CONSTRUCTION JOINT PER TYPICAL DETAILS AND BY STOPPING GROUT 1½" BELOW TOP OF MASONRY UNIT.
15. PROVIDE VERTICAL CONTROL JOINT AT 24'–0" O.C. MAX.

METAL DECKING

1. PROVIDE METAL DECKING BY MANUFACTURER INDICATED ON DRAWINGS.
2. FLOOR DECKING:
   A. PROVIDE METAL FLOOR DECKING AND CLOSURE ANGLES COMPLYING WITH ASTM A653, GRADE A, WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI AND GALVANIZED WITH G60 COMMERCIAL COATING COMPLYING WITH ASTM A653.
   B. FORM FLOOR DECKING WITH INTEGRAL LOCKING LUGS OR EMBOSSMENTS TO PROVIDE A MECHANICAL LOCK BETWEEN CONCRETE AND DECKING.
   C. SHEAR STUDS:
      1 PROVIDE SHEAR STUDS COMPLYING WITH ASTM A108, GRADE 1015 OR 1020.
      2 PROVIDE 3/4" DIAMETER x 4 1/2" LONG (AFTER WELDING), SHEAR STUDS ON ALL FLOOR BEAMS AND GIRDERS. POSITION STUDS IN A SINGLE ROW OVER CENTER OF MEMBER WEB UNLESS NOTED OTHERWISE.
      3 SPACE SHEAR STUDS @ 24" O.C. AT ALL BEAMS AND GIRDERS MAXIMUM, UNLESS NOTED OTHERWISE ON PLAN AS FOLLOWS:
      [2] INDICATES NUMBER OF EQUALLY SPACED STUDS IN FULL LENGTH OF MEMBER.
      [5] INDICATES NUMBER OF EQUALLY SPACED STUDS BETWEEN ADJACENT POINT OF CONCENTRATED LOADS.
      4 WELD SHEAR STUDS IN COMPLIANCE WITH AWS D1.1. WELDERS SHALL BE CERTIFIED AS REQUIRED BY THE GOVERNING CODE AUTHORITY FASTEN WITH AN AUTOMATIC END WELD GUN.
      5 DO NOT LAP 18 GAUGE DECKING OR THICKER WHERE 3/4" DIAMETER SHEAR STUDS ARE TO BE ATTACHED TO SUPPORTS.
   D. FLOOR DECKING IS DESIGNED FOR UNSHORED CONSTRUCTION TO MAXIMUM SPANS INDICATED. IF CONDITIONS OCCUR WHERE SPANS EXCEED MAXIMUM, PROVIDE ADEQUATE SHORING OR HEAVIER GAUGE DECKING, SUBJECT TO ARCHITECT OR STRUCTURAL ENGINEER REVIEW.
3. ROOF DECKING
   A. PROVIDE METAL ROOF DECKING AND CLOSURE ANGLES COMPLYING WITH ASTM A653, GRADE A, WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI AND GALVANIZED WITH G60 COMMERCIAL COATING COMPLYING WITH ASTM A653.
   B. PROVIDE PERFORATIONS OR SLOTS IN ROOF DECKING, 1.5% MAXIMUM OPEN AREA FOR VENTILATION OF INSULATING CONCRETE WHERE USED.
   C. ROOF DECKING IS DESIGNED FOR UNSHORED CONSTRUCTION, UNLESS NOTED OTHERWISE.
   D. DO NOT SUSPEND PIPING, DUCTS, WORK UTILITIES OR OTHER LOADS WITH EXCEPTION OF SUSPENDED ACOUSTICAL CEILINGS WITH INTEGRALLY SUPPORTED LIGHT FIXTURES FROM ROOF DECKING. SUBMIT METHODS OF SUPPORT FROM ROOF FRAMING FOR LOAD OTHER THAN ACOUSTICAL CEILINGS TO ARCHITECT OR STRUCTURAL ENGINEER.
4. PROVIDE CLOSURE ANGLES AT OPENINGS FOR MECHANICAL EQUIPMENT, DUCTS, PIPING, VENTS, CONDUITS, ETC., INCLUDING THOSE NOT SHOWN ON STRUCTURAL DRAWINGS. CLOSURE ANGLES SHALL BE 18 GAUGE AND BE WELDED TO DECKING, UNLESS DETAILED OTHERWISE.
5. BEAR DECKING AT LEAST 2 INCHES AT SUPPORTS. LAP DECKING AT ENDS AT LEAST 2 INCHES AND CENTER LAPS OVER SUPPORTS. COMPLY REQUIREMENTS PER ICC APPROVED REPORT.
6. WELD METAL DECKING IN COMPLIANCE WITH ANSI/AWS D1.3 AND IBC USING A MINIMUM OF E60XX ELECTRODES. WELDERS SHALL BE CERTIFIED AS REQUIRED BY THE GOVERNING CODE AUTHORITY.
7. SCREED CONCRETE PARALLEL TO METAL DECKING TO THICKNESS INDICATED ON DRAWINGS.
8. SUBMIT COMPLETE METAL DECKING SHOP DRAWINGS TO ARCHITECT OR STRUCTURAL ENGINEER FOR REVIEW.
9. ALL WELDING OF METAL DECK SHALL BE ACCORDANCE WITH AWS D1.3.
10. ALL WELDING SHALL BE PERFORMED BY WELDERS QUALIFIED IN ACCORDANCE WITH THE IBC, CHAPTER 22.
11. HANGERS SUPPORTED BY METAL DECKING WITH STRUCTURAL CONCRETE FILL SHALL BE INSTALLED USING ICC APPROVED ANCHORAGE SYSTEMS, SUCH HANGERS SHALL BE USED TO SUPPORT DUCT WORK 54" x 16" MAX., 4" DIA. PIPE MAX., OR CEILINGS. HANGERS MUST BE 2 FLUTES APART ON THE SAME DECK SPAN. LARGER DUCT WORK AND PIPING SHALL BE SUPPORTED BY STRUCTURAL BEAMS OR COLUMNS (SEE MECHANICAL DRAWING).
12. CONTINUOUS INSPECTION IS REQUIRED FOR ALL DECK WELDING IN THE FIELD.
13. ALL METAL DECK SHALL BE WELDED TO STRUCTURAL STEEL BY QUALIFIED WELDERS EXPERIENCED IN WELDING LIGHT–GAUGE STEEL, AND USING PRE–QUALIFIED PROCEDURES. THE ERECTOR SHALL ESTABLISH A WELDING PROCEDURE FOR THE ARC SPOT WELDING WELD OF THE STEEL DECKING TO THE STRUCTURAL STEEL OF A PARTICULAR GAUGE USED. PRIOR TO THE START OF ERECTION OF STEEL DECK, EACH WELDER SHALL BE QUALIFIED USING THIS PROCEDURE AND WITNESSED BY THE OWNER'S TESTING LABORATORY.
14. AT LOCATIONS OF WELDING, THERE SHALL NOT BE MORE THAN ONE (1) THICKNESS OF 16 GAUGE METAL PLATE. FOR SINGLE THICKNESS OF METAL PLATE GREATER THAN 16 GAUGE, PRE–PUNCHED HOLES ARE REQUIRED.
15. STEEL DECK AND FRAMING WILL DEFLECT DURING PLACEMENT OF CONCRETE. THESE DEFLECTIONS WILL REQUIRE PLACEMENT OF CONCRETE IN EXCESS OF THE AMOUNT BASED ON NOMINAL DIMENSIONS IN ORDER TO BRING THE SLAB WITHIN TOLERANCES OF A HORIZONTAL PLANE. THE CONTRACTOR SHALL PROVIDE THE EXCESS CONCRETE AT NO COST TO THE OWNER.
16. SHEAR STUDS SHALL BE NELSON STUDS COMPLYING WITH ICC REPORT NO. ESR–2856.

WELDED STUD

A. MATERIAL

AUTOMATIC END WELDED STUD SHALL BE NELSON SHEAR CONNECTOR OF ANCHOR STUDS (OR APPROVED EQUAL) AND SHALL CONFORM TO ICC REPORT NO. ESR–2856. STUDS SHALL BE MANUFACTURED OF C–1015 COLD ROLLED STEEL WHICH CONFORMS TO ASTM SPECIFICATION A108.

B. INSTALLATION

THE STUDS SHALL BE AUTOMATICALLY END WELDED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS IN SUCH MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE END OF THE STUD AND THE PLATE. THERE SHOULD BE NO POROSITY EVIDENCE OF LACK OF FUSION BETWEEN THE WELDED END OF THE STUD AND THE PLATE. THE STUD SHALL BE DECREASE IN LENGTH DURING WELDING APPROXIMATELY 1/8" FOR 5/8" INCH AND UNDER, AND 3/16" FOR OVER 5/8" DIAMETER. WELDING SHALL BE DONE ONLY BY QUALIFIED WELDERS APPROVED BY THE WELDING INSPECTOR.

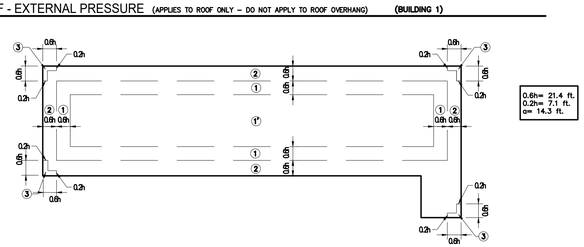
METAL STUDS

1. PROVIDE METAL STUDS AND TRACK FORMED FROM STANDARD COMMERCIAL STEEL WITH A MINIMUM YIELD STRENGTH AT 33,000 PSI AND COMPLYING WITH ASTM A568, IBC CHAPTER 22 AND SPECIFICATIONS FOR THE DESIGN OF COLD–FORMED STEEL STRUCTURAL MEMBERS OF AISI S100–16/S2–20 EDITION. PROVIDE STUDS AND TRACK WITH MINIMUM YIELD STRENGTH AT 50,000 PSI FOR 16 GAUGE AND HEAVIER.
2. WELD STUDS COMPLYING WITH ANSI/AWS D1.3 AND IBC CHAPTER 22, WELDERS SHALL BE CERTIFIED AS REQUIRED BY GOVERNING CODE AUTHORITY.
3. USE METAL STUDS COMPLYING WITH IBC 2021 / AISI S100–16/S2–20.
4. PROVIDE UNPUNCHED 16 GAUGE TRACK, UNLESS NOTED OTHERWISE, OF DIMENSIONS TO ENSURE PROPER FIT OF STUDS.
5. CUT FRAMING COMPONENTS, SUCH AS BRACING, SQUARELY OR AT AN ANGLE TO FIT TIGHT AGAINST ABUTTING MEMBERS. HOLD MEMBERS FIRMLY IN POSITION UNTIL PROPERLY FASTENED.
6. ATTACH STUDS USING PLUG, BUTT OR SEAM WELDS, UNLESS NOTED OTHERWISE. WHERE STUDS ARE BURNED THROUGH BY WELDING, PROVIDE SUITABLE STITCH PLATE OF SAME GAUGE. SPLICES IN AXIAL LOADED STUDS OR BRACES ARE NOT PERMITTED. PROVIDE BUTT WELDS OR SPLICES AT JOINTS IN TRACK WIRE. TYING OF FRAMING COMPONENTS IS NOT PERMITTED.
7. PREFABRICATED PANELS SHALL BE SQUARED AND BRACED TO AVOID RACKING. LIFT PREFABRICATED PANEL IN A MANNER SO AS NOT TO CAUSE LOCAL DISTORTION OF ANY MEMBER.
8. ALL METAL SCREW INDICATED ON THESE DRAWINGS ARE SELF DRILLING/SELF–TAPPING STEEL SCREWS AS MANUFACTURED BY HILTI COMPLYING WITH ICC REPORT NO. ESR–2196 OR APPROVED EQUAL.

POST-INSTALLED ANCHORS

1. FOR POST–INSTALLED ADHESIVE ANCHORS
   ALL ANCHORS TO BE "F1554" GR.36 ALL THREAD BOLTS MIN. EMBEDMENT = 4"MIN. U.N.O. FOR ALL WALL
   A. USE HIT–RE 500–V3 ADHESIVE (ESR 3814) (LARR 26028) OR APPROVED EQUAL FOR CONCRETE U.N.O.
   B. USE HILTI HY–270 ADHESIVE (ESR–4143) OR APPROVED EQUAL FOR FULLY GROUTED MASONRY U.N.O.
2. ALL THE EPOXY WORK WILL REQUIRE SPECIAL AND CONTINUOUS INSPECTION BY A CITY APPROVED DEPUTY INSPECTOR.
3. FOR POST–INSTALLED EXPANSION ANCHORS
   A. USE HILTI KWIK BOLT TZ (ELC–4266) OR APPROVED EQUAL FOR CONCRETE U.N.O
   B. USE QUICK BOLT 3 (ESR 1385) OR APPROVED EQUAL FOR FULLY GROUTED MASONRY U.N.O
4. INSTALL POST INSTALLED ANCHORS PER MANUFACTURER'S SPECIFICATIONS.

ROOF - EXTERNAL PRESSURE (APPLIES TO ROOF ONLY – DO NOT APPLY TO ROOF OVERHANG) (BUILDING 1)



SKYLIGHT/OPENING NET WIND PRESSURE COMPONENT & CLADDING [PSF]				
WIND ZONE	EFFECTIVE WIND AREA (ft²)			
	< or > 10	> 50	> 100	
1'	-35.4	-35.4	-35.4	
1	-55.0	-47.9	-44.9	
2	-69.6	-60.6	-56.7	
3	-91.6	-73.5	-65.7	

WALLS - EXTERNAL PRESSURE (BUILDING 1)

EXTERIOR WALL/ SPANDREL WIND PRESSURE – COMPONENTS & CLADDING (LRFD) [PSF]						
	< or > 10	> 20	> 50	> 100	> 200	> 500
4: Positive	22.0	20.8	19.3	18.1	16.9	15.4
4 : Negative	-24.2	-23.0	-21.5	-20.3	-19.1	-17.6
5: Positive	22.0	20.8	19.3	18.1	16.9	15.4
5 : Negative	-30.8	-28.4	-25.4	-23.0	-20.7	-17.6

VISION GLASS WIND PRESSURE – COMPONENTS & CLADDING (LRFD) [PSF]						
	< or > 10	> 20	> 50	> 100	> 200	> 500
4 : Positive	35.4	34.3	32.7	31.5	30.4	28.8
4 : Negative	-37.6	-36.5	-34.9	-33.7	-32.6	-31.0
5 : Positive	35.4	34.3	32.7	31.5	30.4	28.8
5 : Negative	-44.2	-41.9	-38.8	-36.5	-34.1	-31.0

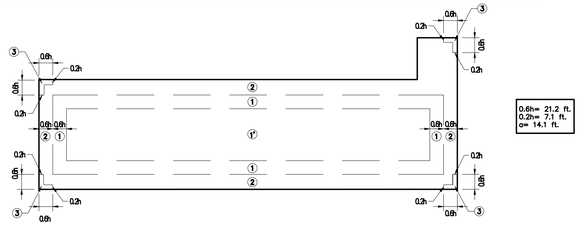
TABLE 1705.7
REQUIRED SPECIAL INSPECTIONS AND TESTS OF DRIVEN DEEP FOUNDATION ELEMENTS

TYPE	CONTINOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY ELEMENT MATERIALS, SIZES AND LENGTHS COMPLY WITH THE REQUIREMENTS.	X	–
2. DETERMINE CAPACITIES OF TEST ELEMENTS AND CONDUCT ADDITIONAL LOAD TESTS, AS REQUIRED.	X	–
3. INSPECT DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	–
4. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT.	X	–
5. FOR STEEL ELEMENTS,PERFORM ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.2.	IN ACCORDANCE WITH SECTION 1705.2	
6. FOR CONCRETE ELEMENTS AND CONCRETE–FILLED ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3.	IN ACCORDANCE WITH SECTION 1705.3	
7. FOR SPECIALTY ELEMENTS, PERFORM ADDITIONAL INSPECTIONS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.	IN ACCORDANCE WITH STATEMENT OF SPECIAL INSPECTIONS	

TABLE 1705.13.7
REQUIRED INSPECTIONS OF STORAGE RACK SYSTEMS

TYPE	CONTINOUS INSPECTION	PERIODIC INSPECTION	REFERENCED STANDARD	CBC REFERENCE
1. MATERIALS USED, TO VERIFY COMPLIANCE WITH ONE OR MORE OF THE MATERIAL TEST REPORTS IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.	–	X	–	–
2. FABRICATED STORAGE RACK ELEMENTS.	–	X	–	SECTION 1704.2.5
3. STORAGE RACK ANCHORAGE INSTALLATION.	–	X	ANSI/MH16.1 SECTION 7.3.2	–
3. COMPLETED STORAGE RACK SYSTEM, TO INDICATE COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.	–	X	–	–

ROOF - EXTERNAL PRESSURE (APPLIES TO ROOF ONLY – DO NOT APPLY TO ROOF OVERHANG) (BUILDING 2)



SKYLIGHT/OPENING NET WIND PRESSURE COMPONENT & CLADDING [PSF]				
WIND ZONE	EFFECTIVE WIND AREA (ft²)			
	< or > 10	> 50	> 100	
1'	-35.3	-35.3	-35.3	
1	-54.8	-47.8	-44.8	
2	-69.5	-60.4	-56.6	
3	-91.4	-73.3	-65.6	

WALLS - EXTERNAL PRESSURE (BUILDING 2)

EXTERIOR WALL/ SPANDREL WIND PRESSURE – COMPONENTS & CLADDING (LRFD) [PSF]						
	< or > 10	> 20	> 50	> 100	> 200	> 500
4: Positive	21.9	20.8	19.2	18.1	16.9	15.4
4 : Negative	-24.1	-23.0	-21.4	-20.3	-19.1	-17.5
5: Positive	21.9	20.8	19.2	18.1	16.9	15.4
5 : Negative	-30.7	-28.4	-25.3	-23.0	-20.6	-17.5

VISION GLASS WIND PRESSURE – COMPONENTS & CLADDING (LRFD) [PSF]						
	< or > 10	> 20	> 50	> 100	> 200	> 500
4 : Positive	35.3	34.2	32.6	31.5	30.3	28.8
4 : Negative	-37.5	-36.4	-34.8	-33.7	-32.5	-31.0
5 : Positive	35.3	34.2	32.6	31.5	30.3	28.8
5 : Negative	-44.1	-41.8	-38.7	-36.4	-34.0	-31.0

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7800 LOGISTICS W. JORDAN

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4555 W 7800 S (BLDG.1) & 7888 Airport Road (BLDG.2),
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CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

SHEET TITLE:

GENERAL NOTES

SD0.1

(NOT FOR BID OR CONSTRUCTION)

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TABLE 1705.2.2
REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD
1. Material verification of cold–formed steel deck:			
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	—	X	Applicable ASTM Material Standards
b. Manufacturer's certified test reports.	—	X	
2. Inspection of welding:			
a. Cold–formed steel deck:			
1) Floor and roof deck welds.	—	X	AWS D1.3
b. Reinforcing steel:			
1) Verification of weldability of reinforcing steel other than ASTM A 706	—	X	AWS D1.4 ACI 318: Section 3.5.2
2) Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcements.	X	—	
3) Shear reinforcement.	X	—	
4) Other reinforcing steel.	—	X	

TABLE N5.4-1 (ANSI/AISC 360-16)
INSPECTION TASKS PRIOR TO WELDING

Inspection Tasks Prior to Welding	QC	QA
Welder qualification records and continuity records	P	O
Welding procedure specifications (WPSs) available	P	P
Manufacturer certifications for welding consumables available	P	P
Material identification (type/grade)	O	O
Welder identification system [1]	O	O
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)	O	O
Fit–up CJP groove welds of HSS T–, Y– and K–joints without backing (including joint geometry) –Joint preparation –Dimensions (alignment, root opening, root face, bevel) –Cleanliness (condition of steel surfaces) –Tacking (tack weld quality and location)	O	O
Configuration and finish of access holes	O	O
Fit–up of fillet welds –Dimensions (alignment, gaps at root) –Cleanliness (condition of steel surfaces) –Tacking (tack weld quality and location)	O	O
Check welding equipment	O	—

[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. Stamps, if used, shall be the low–stress type.

O–Observe these items on a random basis. Operations need not be delayed pending these inspections.
P–Perform these tasks for each welded joint or member.

TABLE N5.4-2 (ANSI/AISC 360-16)
INSPECTION TASKS DURING WELDING

Inspection Tasks During Welding	QC	QA
Control and handling of welding consumables –Packaging –Exposure control	O	O
No welding over cracked tack welds	O	O
Environmental conditions –Wind speed within limits –Precipitation and temperature	O	O
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)	O	O
Welding techniques –Interpass and final cleaning –Each pass within profile limitations –Each pass meets quality requirements	O	O
Placement and installation of steel headed stud anchors	P	P

O–Observe these items on a random basis. Operations need not be delayed pending these inspections.
P–Perform these tasks for each welded joint or member.

TABLE N5.4-3 (ANSI/AISC 360-16)
INSPECTION TASKS AFTER WELDING

Inspection Tasks After Welding	QC	QA
Welds cleaned	O	O
Size, length and location of welds	P	P
Welds meet visual acceptance criteria –Crack prohibition –Weld/base–metal fusion –Crater cross section –Weld profiles –Weld size –Undercut –Porosity	P	P
Arc strikes	P	P
k–area [1]	P	P
Weld access holes in rolled heavy shapes and built–up heavy shapes [2]	P	P
Backing removed and weld tabs removed (if required)	P	P
Repair activities	P	P
Document acceptance or rejection of welded joint or member	P	P
No prohibited welds have been added without the approval of the EOR	O	O

[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. (75 mm) 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.

O–Observe these items on a random basis. Operations need not be delayed pending these inspections.
P–Perform these tasks for each welded joint or member.

TABLE N5.6-1 (ANSI/AISC 360-16)
INSPECTION TASKS PRIOR to BOLTING

Inspection Tasks Prior to Bolting	QC	QA
Manufacturer's certifications available for fastener materials	O	P
Fasteners marked in accordance with ASTM requirements	O	O
Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	O	O
Proper bolting procedure selected for joint detail	O	O
Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	O	O
Pre–installation verification testing by installation personnel observed and documented for fastener assemblies and methods used	P	O
Protected storage provided for bolts, nuts, washers and other fastener components	O	O

O–Observe these items on a random basis. Operations need not be delayed pending these inspections.
P–Perform these tasks for each bolted connection.

TABLE N5.6-2 (ANSI/AISC 360-16)
INSPECTION TASKS DURING BOLTING

Inspection Tasks During Bolting	QC	QA
Fastener assemblies placed in all holes and washers and nuts are positioned as required	O	O
Joint brought to the snug–tight condition prior to the pretensioning operation	O	O
Fastener component not turned by the wrench prevented from rotating	O	O
Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges	O	O

O–Observe these items on a random basis. Operations need not be delayed pending these inspections.
P–Perform these tasks for each bolted connection.

TABLE N5.6-3 (ANSI/AISC 360-16)
INSPECTION TASKS AFTER BOLTING

Inspection Tasks After Bolting	QC	QA
Document acceptance or rejection of bolted connections	P	P

O–Observe these items on a random basis. Operations need not be delayed pending these inspections.
P–Perform these tasks for each bolted connection.

SPECIAL INSPECTION FOR BUCKLING-RESTRAINED BRACED FRAMES & COLLECTOR ELEMENTS

TABLE J6-1 (ANSI/AISC 341-16)
VISUAL INSPECTION TASKS PRIOR to WELDING

VISUAL INSPECTION TASKS PRIOR TO WELDING	QC		QA	
	TASK	DOC.	TASK	DOC
Material identification (Type/Grade)	O	–	O	–
Welder identification system	O	–	O	–
Fit–up 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)	P/O**	–	O	–
Configuration and finish of access holes	O	–	O	–
Fit–up Fillet Welds –Dimensions (alignment, gaps at root) –Cleanliness (condition of steel surfaces) –Tacking (tack weld quality and location)	P/O**	–	O	–

** Following performance of this inspection task for ten welds to be made by a given welder, with the welder demonstrating understanding of requirements and possession of skills and tools to verify these items, the perform designation of this task shall be reduced to Observe, and the welder shall perform this task. Should the inspector determine that the welder has discontinued performance of this task, the task shall be returned to perform until such time as the inspector has re–established adequate assurance that the welder will perform the inspection tasks listed.

O–The inspector shall observe these functions on a random, daily basis. Operations need not be delayed pending observations.

P–These inspections shall be performed prior to the final acceptance of the item.

D–The inspector shall prepare reports indicating that the work has been performed in accordance with the contract documents. The report need not provide detailed measurements for joint fit–up. WPS settings, completed welds, or other individual items listed in the tables. For shop fabrication, the report shall indicate the piece mark of the piece inspected. For field work, the report shall indicate the reference grid lines and floor or elevation inspected. Work not in compliance with the contract documents and whether the noncompliance has been satisfactorily repaired shall be noted in the inspection report.

TABLE J6-2 (ANSI/AISC 341-16)
VISUAL INSPECTION TASKS DURING WELDING

VISUAL INSPECTION TASKS DURING WELDING	QC		QA	
	TASK	DOC.	TASK	DOC
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) –Intermix of filler metals avoided unless approved	O	–	O	–
Use of qualified welders	O	–	O	–
Control and handling of welding consumables –Packaging –Exposure control	O	–	O	–
Environmental conditions –Wind speed within limits –Precipitation and temperature	O	–	O	–
Welding techniques –Interpass and final cleaning –Each pass within profile limitations –Each pass meets quality requirements	O	–	O	–
No welding over cracked tacks	O	–	O	–

O–The inspector shall observe these functions on a random, daily basis. Operations need not be delayed pending observations.

P–These inspections shall be performed prior to the final acceptance of the item.

D–The inspector shall prepare reports indicating that the work has been performed in accordance with the contract documents. The report need not provide detailed measurements for joint fit–up. WPS settings, completed welds, or other individual items listed in the tables. For shop fabrication, the report shall indicate the piece mark of the piece inspected. For field work, the report shall indicate the reference grid lines and floor or elevation inspected. Work not in compliance with the contract documents and whether the noncompliance has been satisfactorily repaired shall be noted in the inspection report.

TABLE J6-3 (ANSI/AISC 341-16)
VISUAL INSPECTION TASKS AFTER WELDING

VISUAL INSPECTION TASKS AFTER WELDING	QC		QA	
	TASK	DOC.	TASK	DOC
Welds cleaned	O	–	O	–
Size, length, and location of welds	P	–	P	–
Welds meet visual acceptance criteria –Crack prohibition –Weld/base–metal fusion –Crater cross section –Weld profiles and size –Undercut –Porosity	P	D	P	D
k–area [1]	P	D	P	D
Placement of reinforcing or contouring fillet welds (if required)	P	D	P	D
Backing removed, weld tabs removed and finished, and fillet welds added (if required)	P	D	P	D
Repair activities	P	–	P	D

O–The inspector shall observe these functions on a random, daily basis. Operations need not be delayed pending observations.

P–These inspections shall be performed prior to the final acceptance of the item.

D–The inspector shall prepare reports indicating that the work has been performed in accordance with the contract documents. The report need not provide detailed measurements for joint fit–up. WPS settings, completed welds, or other individual items listed in the tables. For shop fabrication, the report shall indicate the piece mark of the piece inspected. For field work, the report shall indicate the reference grid lines and floor or elevation inspected. Work not in compliance with the contract documents and whether the noncompliance has been satisfactorily repaired shall be noted in the inspection report.

[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. (75 mm) of the weld. The visual inspection shall be performed no sooner than 48 hours following completion of the welding.

SPECIAL INSPECTION FOR STEEL SPECIAL TRUSS MOMENT FRAMES & COLLECTOR ELEMENTS

TABLE J7-1 (ANSI/AISC 341-16)
INSPECTION TASKS PRIOR to BOLTING

INSPECTION TASKS PRIOR to BOLTING	QC		QA	
	TASK	DOC.	TASK	DOC
Proper fasteners selected for the joint detail	O	–	O	–
Proper bolting procedure selected for joint detail	O	–	O	–
Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	O	–	O	–
Pre–installation verification testing by installation personnel observed for fastener assemblies and methods used	P	D	O	D
Proper storage provided for bolts, nuts, washers and other fastener components	O	–	O	–

O–The inspector shall observe these functions on a random, daily basis. Operations need not be delayed pending observations.

P–These inspections shall be performed prior to the final acceptance of the item.

D–The inspector shall prepare reports indicating that the work has been performed in accordance with the contract documents. The report need not provide detailed measurements for joint fit–up. WPS settings, completed welds, or other individual items listed in the tables. For shop fabrication, the report shall indicate the piece mark of the piece inspected. For field work, the report shall indicate the reference grid lines and floor or elevation inspected. Work not in compliance with the contract documents and whether the noncompliance has been satisfactorily repaired shall be noted in the inspection report.

TABLE J7-2 (ANSI/AISC 341-16)
INSPECTION TASKS DURING BOLTING

INSPECTION TASKS DURING BOLTING	QC		QA	
	TASK	DOC.	TASK	DOC
Fastener assemblies placed in all holes and washers (if required) are positioned as required	O	–	O	–
Joint brought to the snug tight condition prior to the pretensioning operation	O	–	O	–
Fastener component not turned by the wrench prevented from rotating	O	–	O	–
Bolts are pretensioned progressing systematically from the most rigid point toward the free edges	O	–	O	–

O–The inspector shall observe these functions on a random, daily basis. Operations need not be delayed pending observations.

P–These inspections shall be performed prior to the final acceptance of the item.

D–The inspector shall prepare reports indicating that the work has been performed in accordance with the contract documents. The report need not provide detailed measurements for joint fit–up. WPS settings, completed welds, or other individual items listed in the tables. For shop fabrication, the report shall indicate the piece mark of the piece inspected. For field work, the report shall indicate the reference grid lines and floor or elevation inspected. Work not in compliance with the contract documents and whether the noncompliance has been satisfactorily repaired shall be noted in the inspection report.

TABLE J7-3 (ANSI/AISC 341-16)
INSPECTION TASKS AFTER BOLTING

INSPECTION TASKS AFTER BOLTING	QC		QA	
	TASK	DOC.	TASK	DOC
Document accepted and rejected connections	P	D	P	D

O–The inspector shall observe these functions on a random, daily basis. Operations need not be delayed pending observations.

P–These inspections shall be performed prior to the final acceptance of the item.

D–The inspector shall prepare reports indicating that the work has been performed in accordance with the contract documents. The report need not provide detailed measurements for joint fit–up. WPS settings, completed welds, or other individual items listed in the tables. For shop fabrication, the report shall indicate the piece mark of the piece inspected. For field work, the report shall indicate the reference grid lines and floor or elevation inspected. Work not in compliance with the contract documents and whether the noncompliance has been satisfactorily repaired shall be noted in the inspection report.

SPECIAL INSPECTION FOR STEEL SPECIAL TRUSS MOMENT FRAMES

TABLE J8-1 (ANSI/AISC 341-16)
OTHER INSPECTION TASKS

Other Inspection Tasks	QC		QA	
	TASK	DOC.	TASK	DOC
RBS requirements, if applicable – Contour and finish – Dimensional tolerances	P	D	P	D
Protected zone–no holes and unapproved attachments made by fabricator or erector, as applicable	P	D	P	D

O–The inspector shall observe these functions on a random, daily basis. Operations need not be delayed pending observations.

P–These inspections shall be performed prior to the final acceptance of the item.

D–The inspector shall prepare reports indicating that the work has been performed in accordance with the contract documents. The report need not provide detailed measurements for joint fit–up. WPS settings, completed welds, or other individual items listed in the tables. For shop fabrication, the report shall indicate the piece mark of the piece inspected. For field work, the report shall indicate the reference grid lines and floor or elevation inspected. Work not in compliance with the contract documents and whether the noncompliance has been satisfactorily repaired shall be noted in the inspection report.

TABLE 3: MINIMUM VERIFICATION REQUIREMENTS

Minimum Verification	Required for Quality Assurance [a]			Reference for Criteria
	Level 1	Level 2	Level 3	TMS 602
Prior to construction, verification of compliance of submittals.	R	R	R	Art. 1.5
Prior to construction, verification of f'_m and f'_{AAC} except where specifically exempted by the Code.	NR	R	R	Art. 1.4B
During construction, verification of Slump flow and Visual Stability Index (VSI) when self–consolidating grout is delivered to the project site.	NR	R	R	Art. 1.5 & 1.6.3
During construction, verification of f'_m,f'_{mi} and f'_{AAC} for every 5,000 sq.ft. (465 sq.m).	NR	NR	R	Art. 1.4B
During construction, verification of proportions of materials as delivered to the project site for premixed or blended mortar, prestressing grout, and grout other than self–consolidating grout.	NR	NR	R	Art. 1.4B

(a) R = Required, NR = Ner Required

TABLE 4: MINIMUM SPECIAL INSPECTION REQUIREMENTS

Inspection Task	Frequency [a]			Reference for Criteria	
	Level 1	Level 2	Level 3	TMS 402	TMS 602
1. As Masonry construction begins, verify that the following are in compliance:					
a. Proportions of site–prepared mortar	NR	P	P		Art. 2.1 & 2.6 A & C
b. Grade and size of prestressing tendons and anchorages.	NR	P	P		Art. 2.4 B & 2.4 M & N
c. Grade, type and size of reinforcement, connectors, and anchor bolts.	NR	P	P		Art. 2.4 A,D,E,F,G,H,IX & L
d. Prestressing technique	NR	P	P		Art. 3.6 B
e. Properties on thin–bed mortar for AAC masonry	NR	(d),(c)	C		Art. 2.1 DC.1
f. Sample panel construction	NR	P	C		Art. 1.6 D
2. Prior to grouting, verify that the following are in compliance:					
a. Grout space.	NR	P	C		Art. 3.2 D & 3.2 F
b. Placement of prestressing tendons and anchorages.	NR	P	P	Sec. 10.8 & 10.9	Art. 3.6
c. Placement of reinforcement, connectors and anchor bolts.	NR	P	C	Sec. 6.1, 6.3.1, 6.3.6 & 6.3.7	Art. 3.2 E & 3.4
d. Proportions of sire–prepared grout and prestressing grout for bonded tendons	NR	P	C		Art. 2.6 B & 2.4 M.1.b
3. Verify compliance of the following during construction:					
a. Materials and procedures with the approved submittals.	NR	P	P		Art. 1.5
b. Placement of masonry units and mortar joint construction.	NR	P	P		Art. 3.3 B
c. Size and location of structural members..	NR	P	P		Art. 3.3 G
d. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction	NR	P	P	Sec. 1.2.1 (e), 6.2.1 & 6.3.1	
e. Type, size and location of veneer ties & movement joints	P[d]	P[d]	--	Sec. 13.2	Art. 3.4 D
f. Installation of adhered veneer	P[d]	P[d]	--	Sec. 13.3	Art. 3.3 D
g. Welding of reinforcement	NR	C	C	Sec. 6.1.7.3	
h. Preparation, construction and protection of masonry during cold weather (temperature below 40°F (4.4°C)) or hot weather (temperature above 90°F (32.2°C)).	NR	P	P		Art. 1.8 C & D
i. Application and measurement of prestressing force	NR	C	C		Art. 3.6 B
j. Placement of grout	NR	C	C		Art. 3.5
k. Placement of prestressing grout for bonded tendons.	NR	C	C		3.6 C
l. Placement of AAC masonry units and construction of thin–bed mortar joints.	NR	(d),(c)	C		Art. 3.3 B.8 & 3.3 G.1.b
4. Observe preparation of grout specimens, mortar specimens and/or prisms	NR	P	P		Art. 1.4 B.2.a.3, B.2.b.3, B.2.c.3, B.3 & B.4

(a) frequency refers to the frequency of inspection,which may be continuous during the listed task or periodicalty during the listed task as defined in the table
NR = Not Required, P = Periodic, C = Continuous

(b) Required for the first 5000 square feet (465 square meters) of AAC masonry.

(c) Required after the first 5000 square feet (465 square meters) of AAC masonry

(d) Periodic inspection of veneer is required when the height of the veneer exceeds 60ft (18.3m above grade plane.

APPENDIX 1. TABLES OF INSPECTION OR EXECUTION TASKS (ANSI/SDI QA/QC-2011)
STANDARD FOR QUALITY CONTROL AND QUALITY ASSURANCE FOR INSTALLATION OF STEEL DECK

TASK	QC	QA
1.1 Inspection or execution tasks prior to deck placement		
A. Verify compliance of materials (deck and all deck accessories) with construction documents, including profiles, material properties, and base metal thickness	Perform	Perform
B. Document acceptance or rejection of deck and deck accessories	Perform	Perform
1.2 Inspection of execution tasks after deck placement		
A. Verify compliance of deck and all deck accessories installation with construction documents	Perform	Perform
B. Verify deck materials are represented by the mill certifications that comply with the construction documents	N/A	Perform
C. Document acceptance or rejection of installation of deck and deck accessories	Perform	Perform
1.3 Inspection of execution tasks prior to welding		
A. Welding procedure specifications (WPS) available	Observe	Observe
B. Manufacturer certifications for welding consumables available	Observe	Observe
C. Material identification (type/grade)	Observe	Observe
D. Check welding equipment	Observe	Observe
1.4 Inspection of execution tasks during welding		
A. Use of qualified welders	Observe	Observe
B. Control and handling of welding consumables	Observe	Observe
C. Environmental conditions (wind speed, moisture, temperature)	Observe	Observe
D. WPS followed	Observe	Observe
1.5 Inspection of execution tasks after welding		
A. Verify size and location of welds, including support, sidelap, and perimeter welds.	Perform	Perform
B. Welds meet visual acceptance criteria	Perform	Perform
C. Verify repair activities	Perform	Perform
D. Document acceptance or rejection of welds	Perform	Perform
1.6 Inspection of execution tasks prior to mechanical fastening		
A. Manufacturer installation instructions available for mechanical fasteners	Observe	Observe
B. Proper tools available for fastener installation	Observe	Observe
C. Proper storage for mechanical fasteners	Observe	Observe
1.7 Inspection of execution tasks during mechanical fastening		
A. Fasteners are positioned as required	Observe	Observe
B. Fasteners are installed in accordance with manufacturer's instructions	Observe	Observe
1.8 Inspection of execution tasks after mechanical fastening		
A. Check spacing, type, and installation of support fasteners	Perform	Perform
B. Check spacing, type, and installation of sidelap fasteners	Perform	Perform
C. Check spacing, type, and installation of perimeter fasteners	Perform	Perform
D. Verify repair activities	Perform	Perform
E. Document acceptance or rejection of mechanical fasteners	Perform	Perform

"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 material and/or workmanship are not in conformance with the applicable documents, additional inspections shall be performed to determine the extent of non–conformance.
"Perform" shall mean to perform these tasks prior to final acceptance for each item or element.

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CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

SHEET TITLE:

GENERAL NOTES

SD0.2

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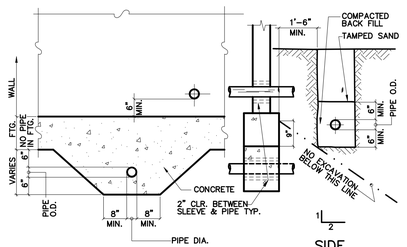
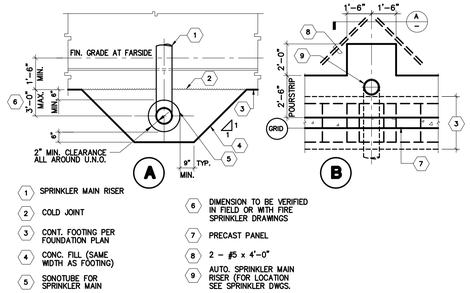
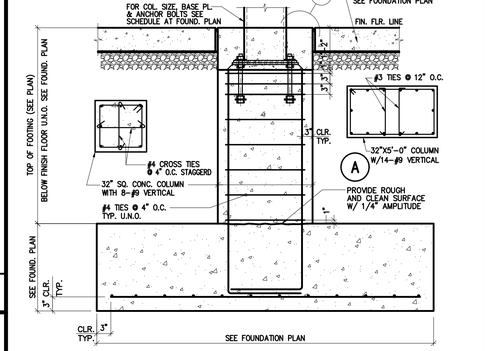


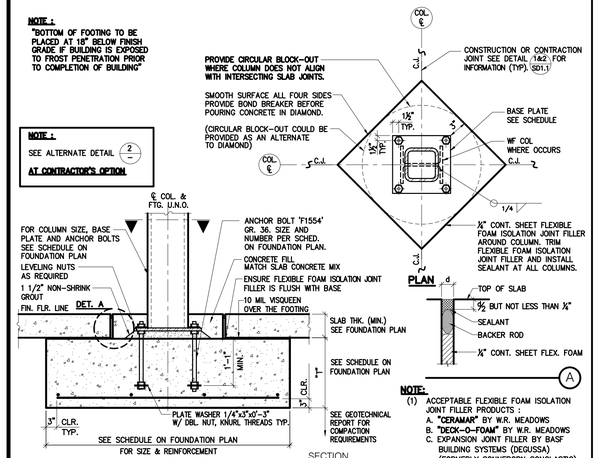
PIPE TRENCH DETAIL | 14



SPRINKLER MAIN RISER | 9

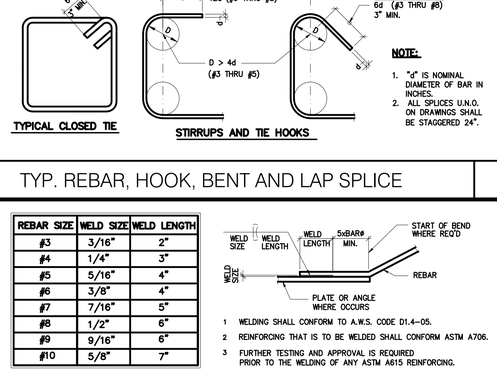


PILASTER DETAIL | 4



COLUMN TO FOOTING | 1

DETAIL | 5



FOOTING BLOCK OUT | 10

DETAIL | 6

COLUMN AND SLEEVE SCHEDULE

COLUMN SIZE	SLEEVE SIZE
HSS 16 x 16	BUILT–UP SLEEVE
HSS 14 x 14	BUILT–UP SLEEVE
HSS 12 x 12	BUILT–UP SLEEVE
HSS 10 x 10	BUILT–UP SLEEVE
HSS 9 x 9	HSS 10 x 10 x ⅜"
HSS 8 x 8	HSS 9 x 9 x ⅜"
HSS 7 x 7	HSS 8 x 8 x ⅜"
HSS 6 x 6	HSS 7 x 7 x ⅜"
HSS 5 x 5	HSS 6 x 6 x ⅜"

COLUMN TO FOOTING (ALTERNATE DETAIL) | 2

OPENING FOR FUTURE DOCK LEVELER | 11

DETAIL | 7

HEIGHT OF POLE ABOVE BASE	"H"
40'	8'–0"
30'	6'–6"
25'	6'–0"
20'	5'–0"
15'	4'–6"

LIGHT POLE DETAIL | 16

TYP. REBAR, HOOK, BENT AND LAP SPLICE | 12

REBAR SIZE	WELD SIZE	WELD LENGTH
#3	3/16"	2"
#4	1/4"	3"
#5	5/16"	4"
#6	3/8"	4"
#7	7/16"	5"
#8	1/2"	6"
#9	9/16"	6"
#10	5/8"	7"

1 WELDING SHALL CONFORM TO A.W.S. CODE D1.4–05.
2 REINFORCING THAT IS TO BE WELDED SHALL CONFORM ASTM A706.
3 FURTHER TESTING AND APPROVAL IS REQUIRED PRIOR TO THE WELDING OF ANY ASTM A615 REINFORCING.

TYPICAL REINFORCING WELDING | 13

DETAIL | 8

DETAIL | 3

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CONSTRUCTION DOCUMENTS
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SHEET TITLE:
FOUNDATION DETAILS

SD1.0

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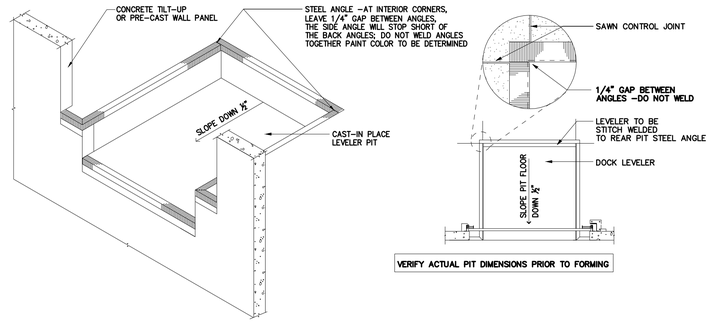
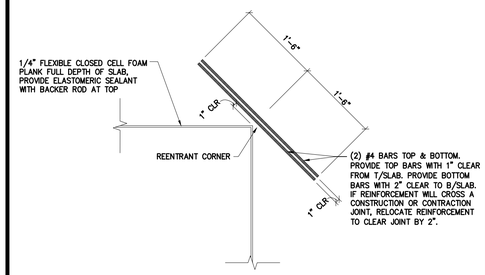
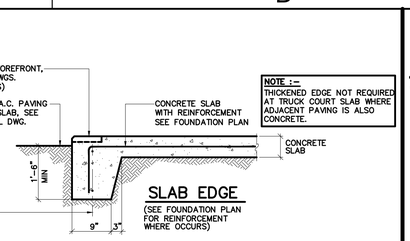


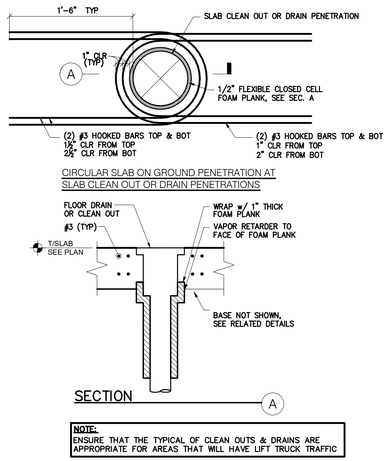
DOCK PIT W/LEVELER DETAIL — 9



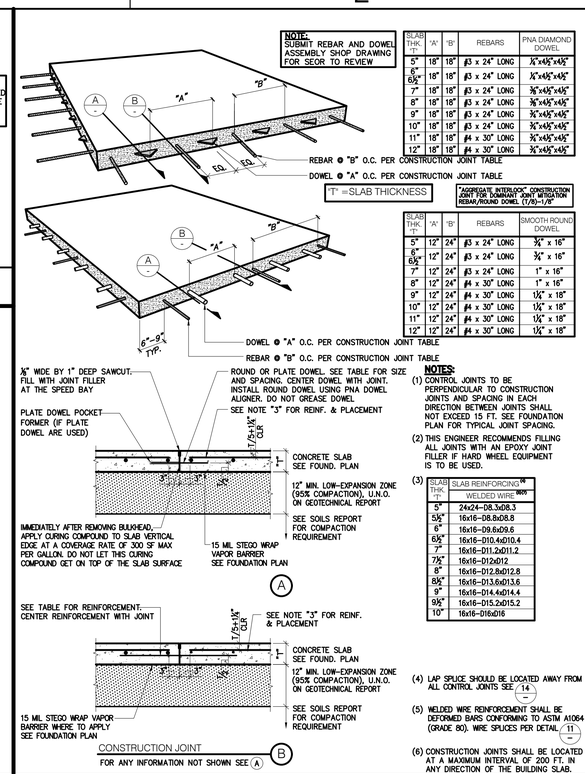
DETAIL — 10



CONCRETE SLAB EDGE — 5



DETAIL — 6

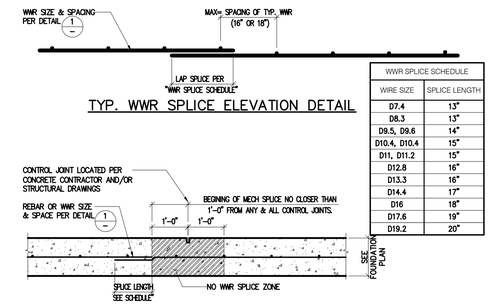


SLAB THK "T"	'A'	'B'	REBARS	PNA DIAMOND DOWEL
5"	18"	18"	#3 x 24" LONG	¼"x4½"x4½"
6"	18"	18"	#3 x 24" LONG	¼"x4½"x4½"
6½"	18"	18"	#3 x 24" LONG	¼"x4½"x4½"
7"	18"	18"	#3 x 24" LONG	⅜"x4½"x4½"
8"	18"	18"	#3 x 24" LONG	⅜"x4½"x4½"
9"	18"	18"	#3 x 24" LONG	⅜"x4½"x4½"
10"	18"	18"	#3 x 24" LONG	⅜"x4½"x4½"
11"	18"	18"	#4 x 30" LONG	⅜"x4½"x4½"
12"	18"	18"	#4 x 30" LONG	⅜"x4½"x4½"

SLAB THK "T"	'A'	'B'	REBARS	SMOOTH ROUND DOWEL
5"	12"	24"	#3 x 24" LONG	¾" x 16"
6"	12"	24"	#3 x 24" LONG	¾" x 16"
6½"	12"	24"	#3 x 24" LONG	¾" x 16"
7"	12"	24"	#3 x 24" LONG	1" x 16"
8"	12"	24"	#4 x 30" LONG	1" x 16"
9"	12"	24"	#4 x 30" LONG	1¼" x 18"
10"	12"	24"	#4 x 30" LONG	1¼" x 18"
11"	12"	24"	#4 x 30" LONG	1¼" x 18"
12"	12"	24"	#4 x 30" LONG	1¼" x 18"

SLAB THICK "T"	SLAB REINFORCING [4] WELDED WIRE [5][6]	COVER
5"	24x24–D8.3xD8.3	2½"
5½"	16x16–D8.8xD8.8	1½"
6"	16x16–D9.6xD9.6	1½"
6½"	16x16–D10.4xD10.4	1½"
7"	16x16–D11.2xD11.2	1½"
7½"	16x16–D12xD12	1½"
8"	16x16–D12.8xD12.8	1½"
8½"	16x16–D13.6xD13.6	1½"
9"	16x16–D14.4xD14.4	1½"
9½"	16x16–D15.2xD15.2	1½"
10"	16x16–D16xD16	1½"

CONSTRUCTION JOINT — 1

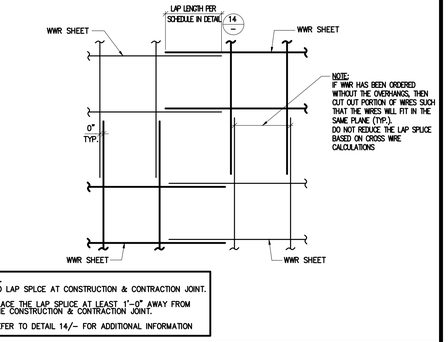


WWR SPLICE SCHEDULE	
WIRE SIZE	SPLICE LENGTH
D7.4	13"
D8.3	13"
D9.5, D9.6	14"
D10.4, D10.4	15"
D11, D11.2	15"
D12.8	16"
D13.3	16"
D14.4	17"
D16	18"
D17.6	19"
D19.2	20"

TYP. WWR SPLICE ELEVATION DETAIL

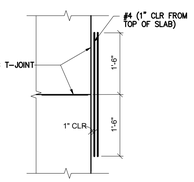
REINFORCING AT CONTROL JOINT (TYP. ALL CONTROL JOINTS)

DETAIL — 14

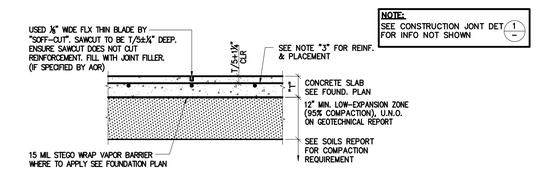


NOTE:
1. NO LAP SPLICE AT CONSTRUCTION & CONTRACTION JOINT.
2. PLACE THE LAP SPLICE AT LEAST 1'-0" AWAY FROM THE CONSTRUCTION & CONTRACTION JOINT.
3. REFER TO DETAIL 14/– FOR ADDITIONAL INFORMATION

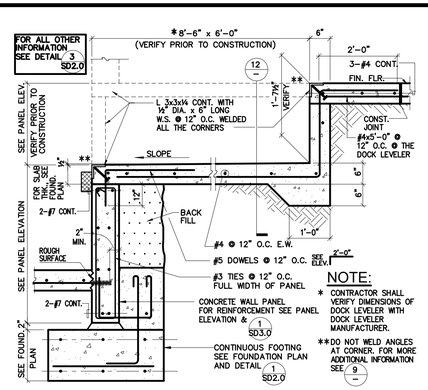
WWR SPLICE PLAN — 11



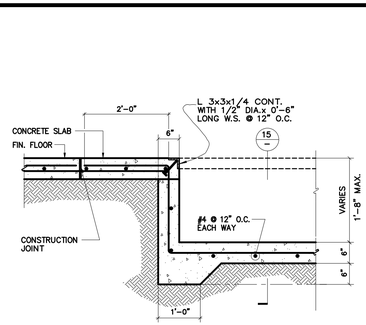
DISCONTINUOUS SLAB JOINT REINFORCEMENT DETAIL — 7



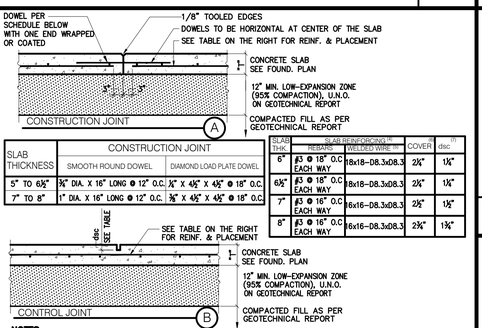
CONTRACTION JOINT — 2



DETAIL — 15



DETAIL — 12

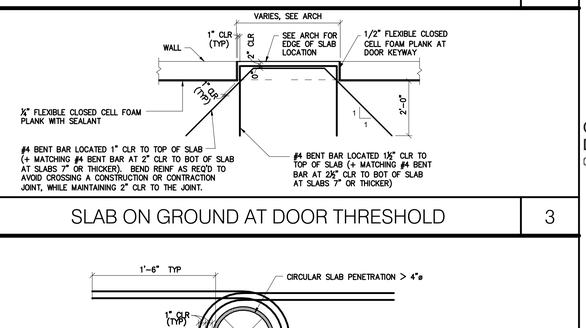


SLAB THICKNESS	CONSTRUCTION JOINT	
	SMOOTH ROUND DOWEL	DIAMOND LOAD PLATE DOWEL
5" TO 6½"	¾" DIA. X 16" LONG @ 12" O.C.	¾" X 4½" X 4½" @ 18" O.C.
7" TO 8"	1" DIA. X 16" LONG @ 12" O.C.	¾" X 4½" X 4½" @ 18" O.C.

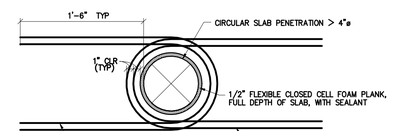
SLAB THK.	SLAB REINFORCING [4] [5] REBARS	WELDED WIRE [5][6]	COVER	dsc [7]
6"	#3 @ 18" O.C. EACH WAY	16x18–D8.3xD8.3	2½"	1½"
6½"	#3 @ 18" O.C. EACH WAY	16x18–D8.3xD8.3	2½"	1½"
7"	#3 @ 16" O.C. EACH WAY	16x16–D8.3xD8.3	2½"	1½"
8"	#3 @ 16" O.C. EACH WAY	16x16–D8.3xD8.3	2½"	1½"

NOTES:
(1) CONTROL JOINTS TO BE PERPENDICULAR TO CONSTRUCTION JOINTS AND SPACING IN EACH DIRECTION BETWEEN JOINTS SHALL NOT EXCEED 15 FT. SEE FOUNDATION PLAN FOR TYPICAL JOINT SPACING.
(2) SEE GEOTECHNICAL REPORT FOR SUBGRADE REQUIREMENT.
(3) LAP SPLICE SHOULD BE LOCATED AWAY FROM ALL CONTROL JOINTS.
(4) WELDED WIRE REINFORCEMENT SHALL BE DEFORMED BARS CONFORMING TO ASTM A1064 (GRADE 80). WIRE SPLICES MINIMUM 13" TYP.
(5) COVER IS FROM TOP OF SLAB
(6) dsc = DENOTES REQUIRED DEPTH OF SAWCUT
(7) AS AN ALTERNATE AT CONSTRUCTION JOINT, USE DIAMOND SHAPE PLATE DOWEL, SEE SCHEDULE.

CONSTRUCTION & CONTROL JOINT (TRUCK COURT SLAB REINFORCED) — 8



SLAB ON GROUND AT DOOR THRESHOLD — 3



CIRCULAR SLAB ON GROUND PENETRATION DETAIL — 4

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DRAWN BY: T.T./M.F.

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WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
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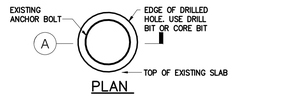
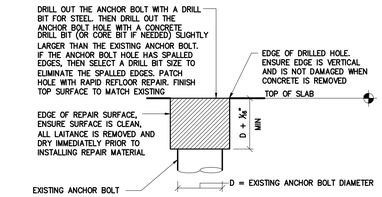
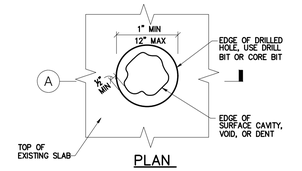


PLAN

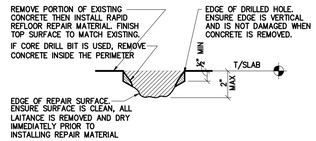


SECTION A

ANCHOR BOLTS | 5



PLAN

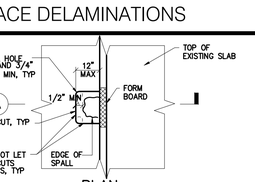


SECTION A

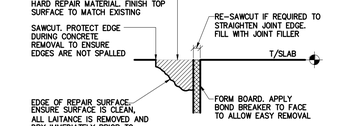
SMALL SURFACE CAVITIES, VOID OR DENTS | 1

1. THE AREAS TO BE REPAIRED WILL BE IDENTIFIED BY THE OWNER'S REPRESENTATIVE.
2. THE REPAIR IS TO BE DONE BY PERSONNEL CERTIFIED BY THE REPAIR MATERIAL MANUFACTURER. A TECHNICAL REPRESENTATIVE FROM THE REPAIR MATERIAL MANUFACTURER IS TO BE PRESENT DURING THE FIRST INSTALLATION OF EACH TYPE OF REPAIR.
3. THE REPAIR CONTRACTOR IS TO FURNISH ALL MATERIALS, TOOLS, LABOR AND SUPERVISION NECESSARY TO PERFORM THE REPAIRS AND CLEAN THE SURROUNDING REPAIRED AREAS.
4. VERIFY THERE ARE NO EMBEDDED UTILITIES THAT MIGHT BE DAMAGED PRIOR TO ANY DEMOLITION, DRILLING OR CUTTING OF THE SLAB.
5. DO AN INITIAL REPAIR OF EACH TYPE OF REPAIR (JOINT SPALL, SURFACE DENT, CAVITY, VOID, DELAMINATIONS, ANCHOR BOLT, ETC.) AND OBTAIN THE OWNER'S REPRESENTATIVE'S APPROVAL BEFORE DOING OTHER REPAIRS.
6. REPAIR MATERIAL MANUFACTURER IS TO BE METZGER/McGUIRE (metzgermcguire.com). ALTERNATES MAY BE SUBMITTED FOR APPROVAL. SELECT COLOR TO MATCH SURROUNDING CONCRETE AS CLOSELY AS FEASIBLE. USE ONLY AGGREGATES SUPPLIED BY REPAIR MATERIAL MANUFACTURER, UNLESS PERMITTED IN WRITING BY THE REPAIR MANUFACTURER AND OWNER'S REPRESENTATIVE. SELECT ONE OF THE FOLLOWING MATERIALS BASED ON ENVIRONMENTAL CONDITIONS AND TIME PERMITTED FOR THE REPAIR:
   A. SMALL SURFACE CAVITIES, VOIDS OR DENTS, SMALL SCRAPES, OBLONG SURFACE CAVITIES, ANCHOR BOLT
      a. RAPID REFLOOR
      b. RAPID REFLOOR XP
   B. SURFACE DELAMINATIONS
      a. ARMOR-HARD
      b. ARMOR-HARD EXTREME
      c. ARMOR-HARD HDR
      d. ARMOR-HARD LV
   C. JOINT SPALL
      a. ARMOR-HARD
      b. ARMOR-HARD EXTREME
7. ENSURE STORAGE, HANDLING, PREPARATION, INSTALLATION, ETC. OF ALL MATERIALS ARE IN ACCORDANCE WITH MANUFACTURER'S / VENDOR'S PRINTED RECOMMENDATIONS AND INSTRUCTIONS, UNLESS OTHERWISE ALLOWED BY OWNER'S REPRESENTATIVE.
8. REMOVE LOOSE CONCRETE, DIRT, DEBRIS, OIL, GREASE, CURING COMPOUNDS, EFFLORESCENCE, PAINTS, COATINGS, CLEANING AGENTS, SOLVENTS AND ANY OTHER MATERIAL THAT WILL BE DETRIMENTAL TO THE BOND OF THE REPAIR MATERIAL TO THE EXISTING CONCRETE FROM ALL REPAIR SURFACES. SURFACE IS TO BE DRY IMMEDIATELY PRIOR TO INSTALLING THE REPAIR MATERIAL. DUSTLESS TOOLS WITH AIR VACUUMS ARE TO BE USED. OBTAIN OWNER'S REPRESENTATIVE'S APPROVAL FOR ANY SOLVENTS, CLEANING AGENTS, COMPOUNDS, ETC. FOR USE WITHIN THE FACILITY.
9. IF EXISTING SURFACE HAS A TEXTURE FINISH (BROOM FINISH, ETC.), TEXTURE NEW SURFACE TO MATCH ADJACENT CONCRETE SURFACE. OBTAIN OWNER'S REPRESENTATIVE'S APPROVAL FOR THE TEXTURED SURFACE ON THE INITIAL REPAIR.

GENERAL NOTES | 6

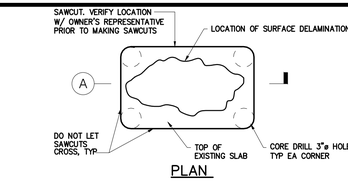


PLAN



SECTION A

SMALL SCRAPES, OBLONG SURFACE CAVITIES, VOID OR DENTS | 2



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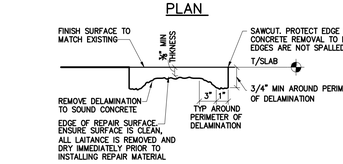

SECTION A

SURFACE DELAMINATIONS | 3

PLAN

SECTION A

JOINT SPALL | 4

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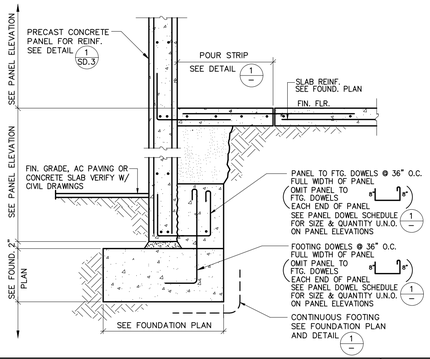
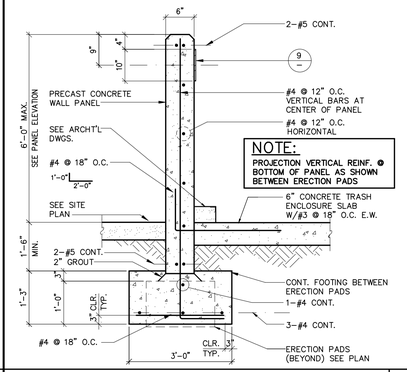


PANEL AT RE-ENTRANT CORNER | 16

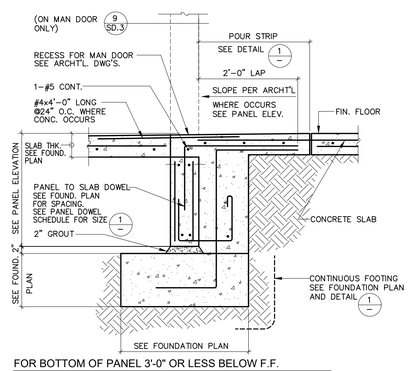
B

12

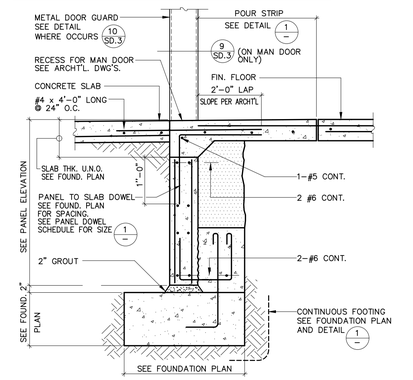


TRASH ENCLOSURE PANEL | 8

D



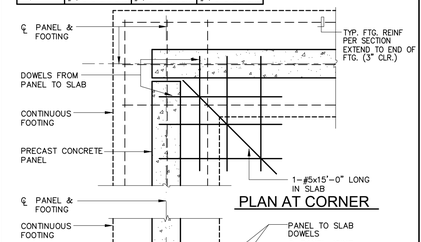
FOR BOTTOM OF PANEL 3'-0" OR LESS BELOW F.F.

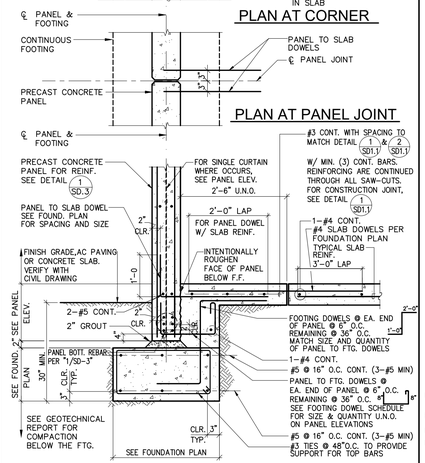


FOR BOTTOM OF PANEL GREATER THAN 3'-0" BELOW F.F.

E

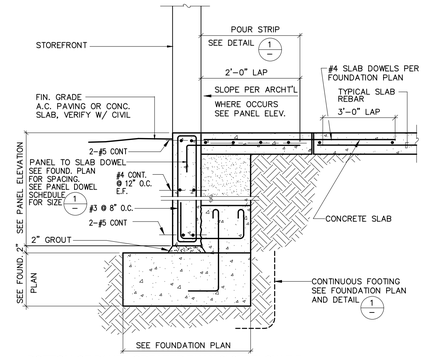
FOOTING DOWEL SCHEDULE			
PANEL THICKNESS	CONCRETE STRENGTH (56 DAYS STRENGTH) 4400 PSI	4950 PSI	5500 PSI
≥10½"	#5, 4 @ EA. END	#5, 4 @ EA. END	#5, 4 @ EA. END
10"	#5, 4 @ EA. END	#5, 4 @ EA. END	#5, 4 @ EA. END
9¼"	#4, 5 @ EA. END	#4, 5 @ EA. END	#5, 4 @ EA. END
8½"	#4, 5 @ EA. END	#4, 5 @ EA. END	#4, 5 @ EA. END
8"	#3, 8 @ EA. END	#4, 5 @ EA. END	#4, 5 @ EA. END



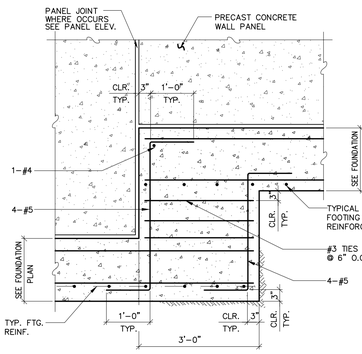


BOTTOM OF PANEL 3'-0" OR LESS BELOW F.F.

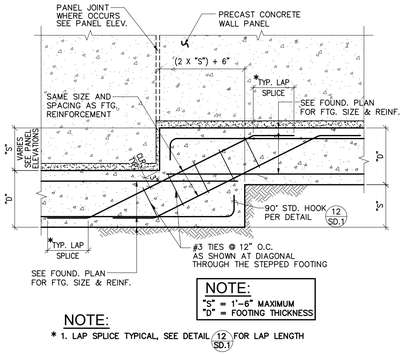
2



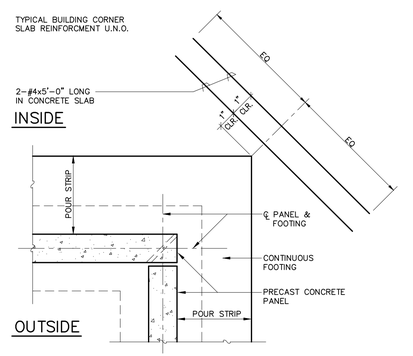
BOTTOM OF PANEL 3'-0" OR LESS BELOW F.F.



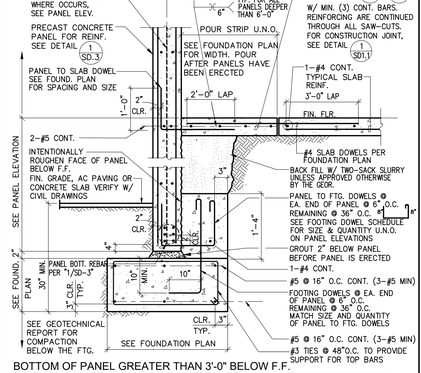
STEPPED BOTTOM OF PANEL | 13



TRASH ENCLOSURE DETAIL | 9

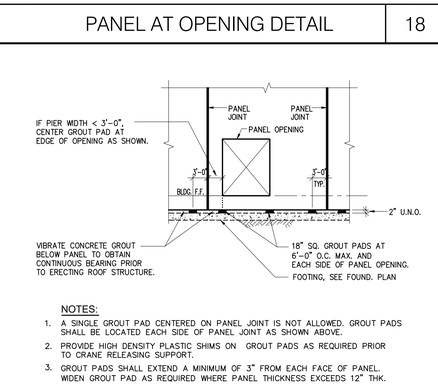


PANEL AT OPENING DETAIL | 4



BOTTOM OF PANEL GREATER THAN 3'-0" BELOW F.F.

3



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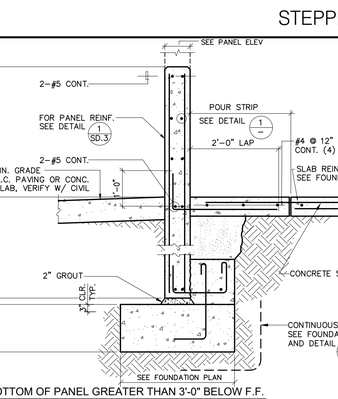
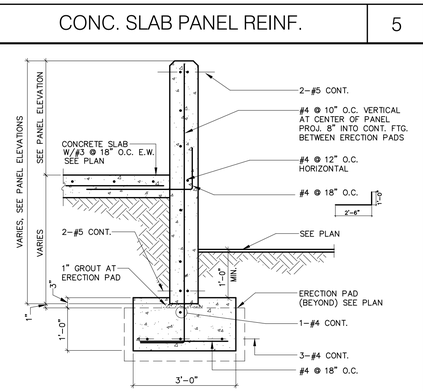


FOR STEPPED PANEL FOOTING GREATER THAN 1'-6"

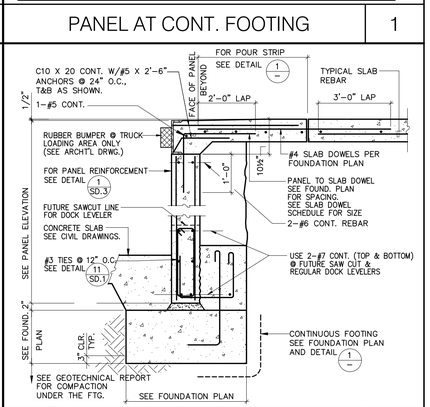
NOTE:
* 1. LAP SPLICE TYPICAL, SEE DETAIL 12 FOR LAP LENGTH

FOR STEPPED PANEL FOOTING LESS THAN 1'-6"

STEPPED PANEL FOOTING | 10



CONC. SLAB PANEL REINF. | 5



PANEL AT LOADING DOCK | 3

NOTES:
1. A SINGLE GROUT PAD CENTERED ON PANEL JOINT IS NOT ALLOWED. GROUT PADS SHALL BE LOCATED EACH SIDE OF PANEL JOINT AS SHOWN ABOVE.
2. PROVIDE HIGH DENSITY PLASTIC SHIMS ON GROUT PADS AS REQUIRED PRIOR TO CRANE RELEASING SUPPORT.
3. GROUT PADS SHALL EXTEND A MINIMUM OF 3" FROM EACH FACE OF PANEL. WIDEN GROUT PAD AS REQUIRED WHERE PANEL THICKNESS EXCEEDS 12" THK.

SETTING PAD DETAIL | 19

BOTTOM OF PANEL GREATER THAN 3'-0" BELOW F.F.

BOTTOM OF PANEL 3'-0" OR LESS BELOW F.F.

PANEL AT OPENING DETAIL | 11

RAMP PANEL TO FOOTING | 7

BOTTOM OF PANEL GREATER THAN 3'-0" BELOW F.F.

PANEL AT CONT. FOOTING | 1

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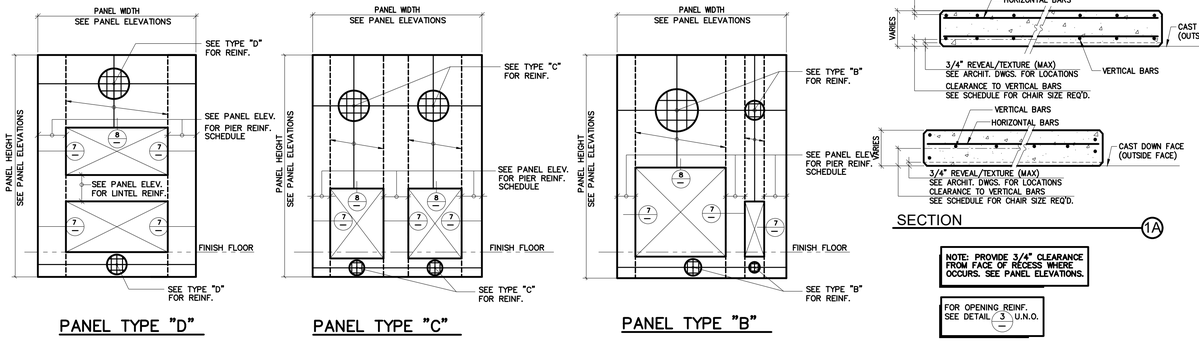
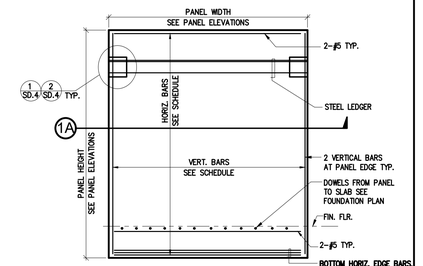


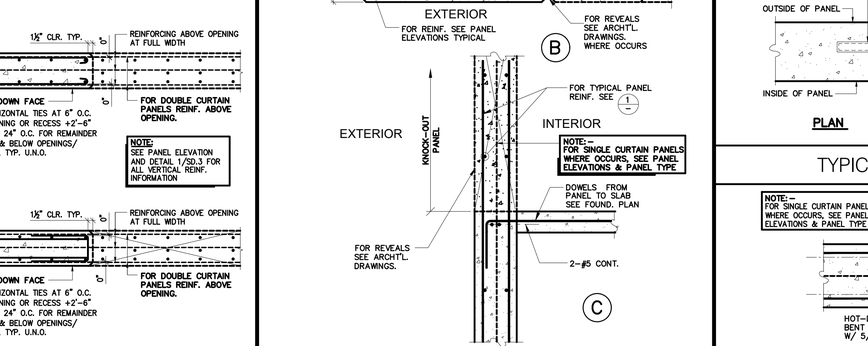
PANEL REBAR SCHEDULE					
PANEL TYPE	PANEL THICKNESS	CONCRETE STRENGTH (AT 56 DAYS)	VERTICAL REBAR	HORIZONTAL REBAR	CLEARANCE TO VERT. BARS
FOR PANEL REBAR SCHEDULE SEE SHEET 1/SD3.1					



PANEL TYPE "A"

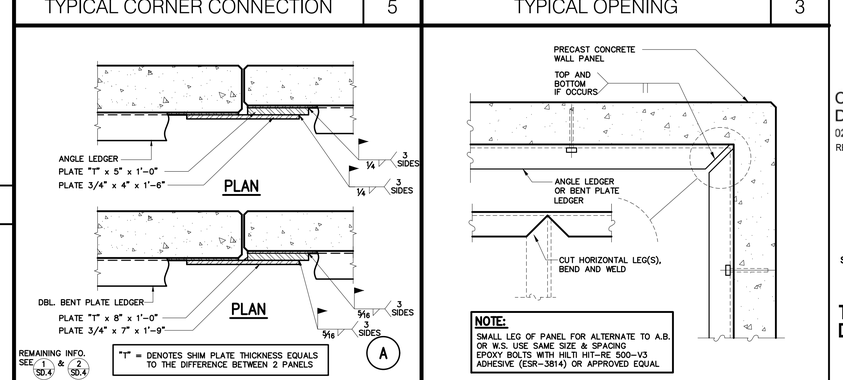
PANEL BOTTOM HORIZ. REBAR SCHEDULE	
PANEL THICKNESS	HORIZONTAL REBAR
6"–8½"	6–#5
8¾"–11¼"	6–#6
12"–14"	6–#7

TYPICAL PANEL REINFORCEMENT AND SCHEDULE — 1

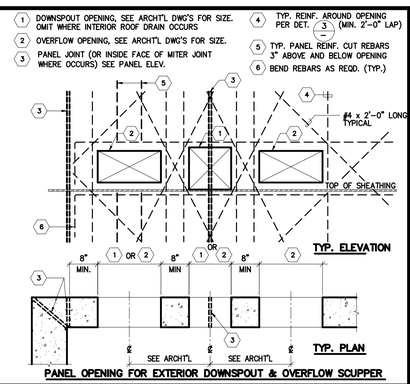


PIER REINFORCING SCHEDULE		
PIER TYPE	VERTICAL REINFORCEMENT	TIE SIZE AND SPACING AT OPENING
7A	(3)–#6 EACH FACE	*#3 @ 6" O.C. U.N.O.
7B	(4)–#6 EACH FACE	*#3 @ 6" O.C. U.N.O.
7C	(5)–#6 EACH FACE	*#3 @ 6" O.C. U.N.O.
7D	(6)–#6 EACH FACE	*#3 @ 6" O.C. U.N.O.
7E	(7)–#6 EACH FACE	*#3 @ 6" O.C. U.N.O.
7F	(8)–#6 EACH FACE	*#3 @ 6" O.C. U.N.O.
7G	(9)–#6 EACH FACE	#3 @ 6" O.C.
7H	(10)–#6 EACH FACE	#3 @ 6" O.C.
7J	(11)–#6 EACH FACE	#3 @ 6" O.C.
7K	(12)–#6 EACH FACE	#3 @ 6" O.C.
7L	(13)–#6 EACH FACE	#3 @ 6" O.C.
7M	(14)–#6 EACH FACE	#3 @ 6" O.C.
7N	(15)–#6 EACH FACE	#3 @ 6" O.C.
7P	(16)–#6 EACH FACE	#3 @ 6" O.C.

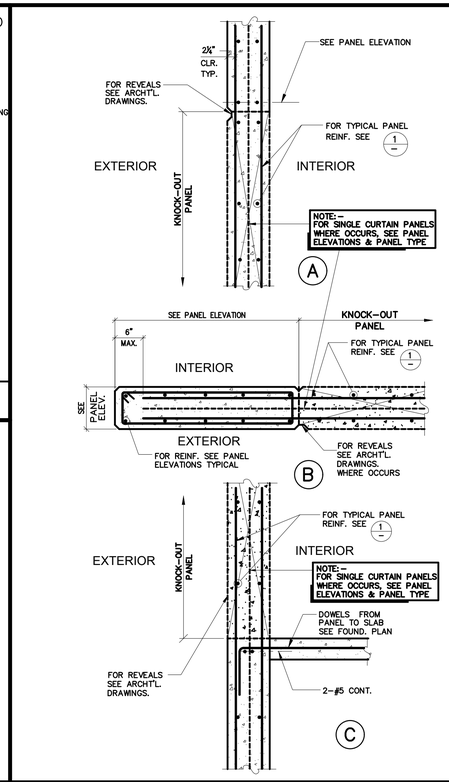
TYPICAL PIER REINFORCEMENT SCHEDULE — 7



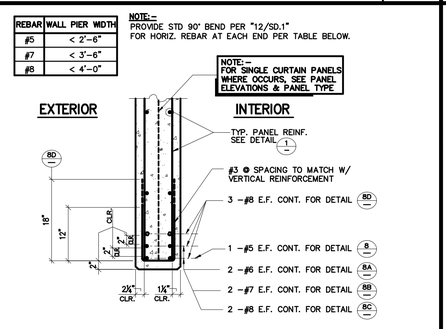
PANEL JOINT DETAILS — 2



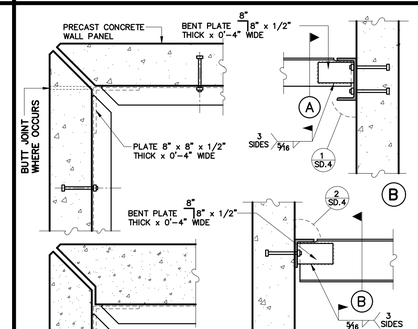
DETAIL — 13



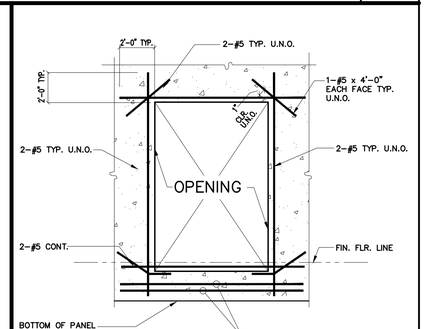
KNOCK-OUT PANEL — 11



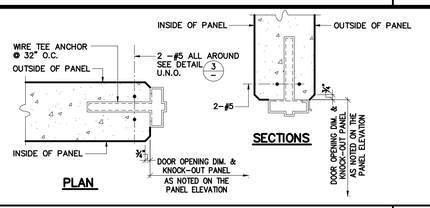
TYPICAL LINTEL DETAIL — 8



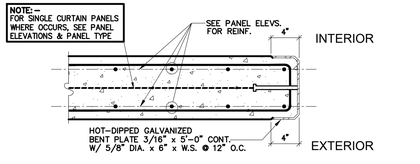
TYPICAL CORNER CONNECTION — 5



TYPICAL OPENING — 3



TYPICAL DOOR HEAD AND JAMB — 9



TYPICAL DOOR GUARD — 10

UNEVEN PANEL THICKNESS — 6

LEDGER CONNECTION — 4

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PROFESSIONAL STRUCTURAL ENGINEER No. 9361368 RAFIK REFAAT GERGES STATE OF UTAH

HSA & ASSOCIATES, INC. CONSULTING STRUCTURAL ENGINEERS 2174 East 3300 South, Suite 300 Salt Lake City, UT 84109 Tel: (801) 521-9511

HSA PROJECT NO.: 25-117
DRAWN BY: T.T./M.F.

7800 LOGISTICS W. JORDAN
GO INDUSTRIAL
4555 W 7800 S (BLDG 11 & 7888 Airport Road (BLDG 2). WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

SHEET TITLE:
TYPICAL PANEL DETAILS

SD3.0

(NOT FOR BID OR CONSTRUCTION)

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PANEL REBAR SCHEDULE BLDG. # 1

PANEL REBAR SCHEDULE													
PANEL TYPE	PANEL THICKNESS	CONCRETE STRENGTH (AT 56 DAYS)	VERTICAL REBAR					HORIZONTAL REBAR					CLEARANCE TO VERT. REBARS
A1	8 1/2"	4400 PSI	#6	@	18"	O.C.	E.F.	#6	@	18"	O.C.	E.F.	2 1/4"
A2	8 1/2"	4400 PSI	#6	@	17"	O.C.	E.F.	#6	@	18"	O.C.	E.F.	2 1/4"
A3	8 1/2"	4400 PSI	#6	@	16"	O.C.	E.F.	#6	@	18"	O.C.	E.F.	2 1/4"
A4	8 1/2"	4400 PSI	#6	@	14"	O.C.	E.F.	#6	@	18"	O.C.	E.F.	2 1/4"
A5	8 1/2"	4400 PSI	#6	@	12"	O.C.	E.F.	#6	@	18"	O.C.	E.F.	2 1/4"
A6	8 1/2"	4400 PSI	#6	@	11"	O.C.	E.F.	#6	@	18"	O.C.	E.F.	2 1/4"
A7	8"	4400 PSI	#6	@	16"	O.C.	E.F.	#6	@	18"	O.C.	E.F.	2 1/4"
B	8"	4400 PSI	#5	@	18"	O.C.		#5	@	18"	O.C.		4"
B1	8 1/2"	4400 PSI	#5	@	16"	O.C.		#5	@	16"	O.C.		4 1/4"
C	8"	4400 PSI	#5	@	18"	O.C.		#5	@	18"	O.C.		4"
C1	8 1/2"	4400 PSI	#5	@	16"	O.C.		#5	@	16"	O.C.		4 1/4"
D	8 1/2"	4400 PSI	#6	@	10"	O.C.		#6	@	10"	O.C.		4 1/4"
D1	9 1/4"	4400 PSI	#6	@	18"	O.C.		#6	@	18"	O.C.		4 3/4"
D2	8"	4400 PSI	#5	@	18"	O.C.		#5	@	15"	O.C.		4"

PANEL REBAR SCHEDULE BLDG. # 2

PANEL REBAR SCHEDULE													
PANEL TYPE	PANEL THICKNESS	CONCRETE STRENGTH (AT 56 DAYS)	VERTICAL REBAR					HORIZONTAL REBAR					CLEARANCE TO VERT. REBARS
A1	8 1/2"	4400 PSI	#6	@	18"	O.C.	E.F.	#6	@	18"	O.C.	E.F.	2 1/4"
A2	8 1/2"	4400 PSI	#6	@	17"	O.C.	E.F.	#6	@	18"	O.C.	E.F.	2 1/4"
A3	8 1/2"	4400 PSI	#6	@	16"	O.C.	E.F.	#6	@	18"	O.C.	E.F.	2 1/4"
A4	8 1/2"	4400 PSI	#6	@	14"	O.C.	E.F.	#6	@	18"	O.C.	E.F.	2 1/4"
A5	8 1/2"	4400 PSI	#6	@	12"	O.C.	E.F.	#6	@	18"	O.C.	E.F.	2 1/4"
A6	8 1/2"	4400 PSI	#6	@	11"	O.C.	E.F.	#6	@	18"	O.C.	E.F.	2 1/4"
A7	8"	4400 PSI	#6	@	16"	O.C.	E.F.	#6	@	18"	O.C.	E.F.	2 1/4"
B	8"	4400 PSI	#5	@	18"	O.C.		#5	@	18"	O.C.		4"
B1	8 1/2"	4400 PSI	#5	@	16"	O.C.		#5	@	16"	O.C.		4 1/4"
C	8"	4400 PSI	#5	@	18"	O.C.		#5	@	18"	O.C.		4"
C1	8 1/2"	4400 PSI	#5	@	16"	O.C.		#5	@	16"	O.C.		4 1/4"
D	8 1/2"	4400 PSI	#6	@	10"	O.C.		#6	@	10"	O.C.		4 1/4"
D1	9 1/4"	4400 PSI	#6	@	18"	O.C.		#6	@	18"	O.C.		4 3/4"
D2	8"	4400 PSI	#5	@	18"	O.C.		#5	@	15"	O.C.		4"
D3	10"	4400 PSI	#6	@	18"	O.C.	E.F.	#6	@	16"	O.C.	E.F.	2 1/4"

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CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

SHEET TITLE:

PANEL REBAR SCHEDULE

SD3.1

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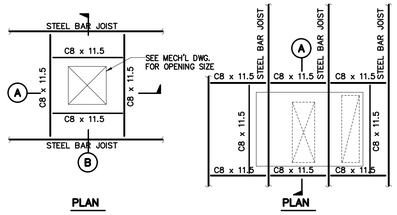
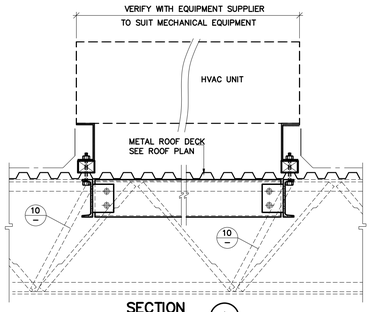


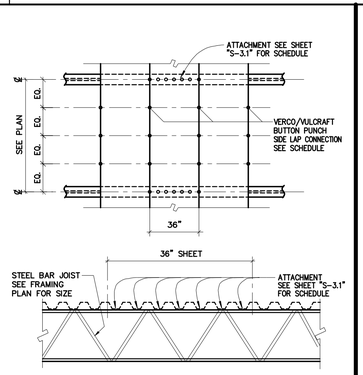


NOTES:

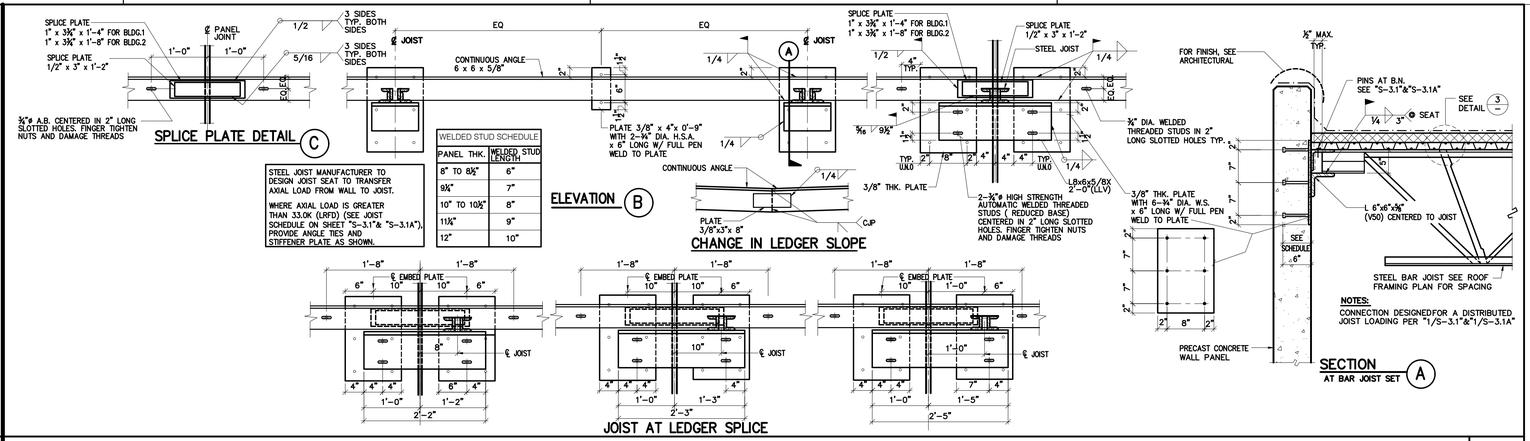
1. HEATER + HANGERS + HANGER CONNECTION TO HEATER & STRUT SWAY BRACES AS REQUIRED AND STRUT MEMBER & ITS CONNECTION TO STRUCTURAL MEMBER SHALL BE DESIGNED AND PROVIDED BY THE MECHANICAL CONTRACTOR.
2. NO HOLES SHALL BE DRILLED THRU THE STRUCTURAL MEMBER WITHOUT THE WRITTEN PERMISSION FROM STRUCTURAL ENGINEERS.
3. ALL BOLTED CONNECTIONS SHALL HAVE SPECIAL INSPECTION FOR SNUG CONTACT OF STRUCTURAL MEMBERS MINIMUM, U.N.O.

DETAIL | 14

DETAIL | 15



DETAIL | 11

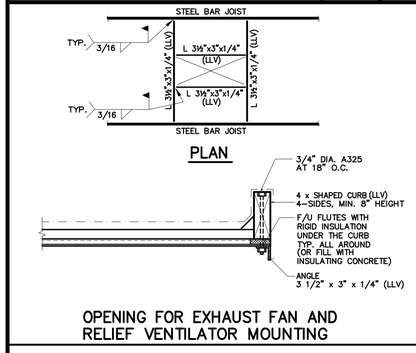


WELDED STUD SCHEDULE	
PANEL THK.	WELDED STUD LENGTH
8" TO 8½"	6"
9¼"	7"
10" TO 10½"	8"
11¼"	9"
12"	10"

STEEL JOIST MANUFACTURER TO DESIGN JOIST SEAT TO TRANSFER AXIAL LOAD FROM WALL TO JOIST.

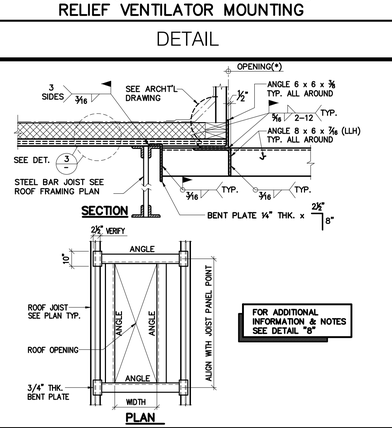
WHERE AXIAL LOAD IS GREATER THAN 33.0K (LRFD) (SEE JOIST SCHEDULE ON SHEET "S-3.1"& "S-3.1A"), PROVIDE ANGLE TIES AND STIFFENER PLATE AS SHOWN.

STEEL BAR JOIST TO CONCRETE PANEL | 1

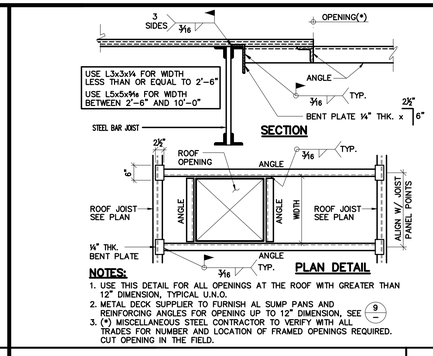


OPENING FOR EXHAUST FAN AND RELIEF VENTILATOR MOUNTING

DETAIL | 12



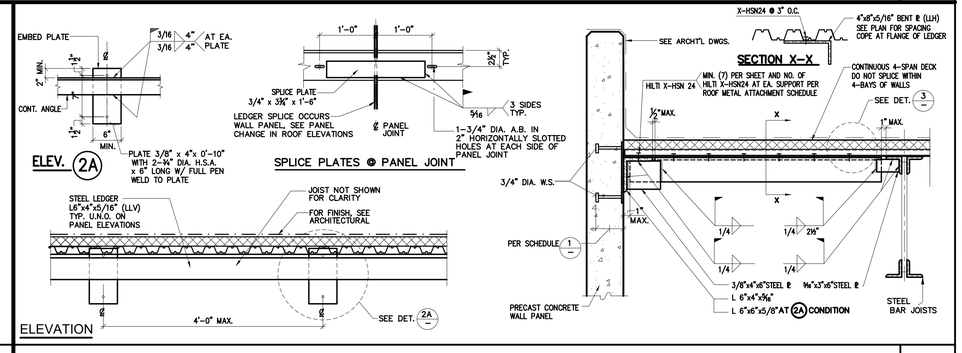
DETAIL | 13



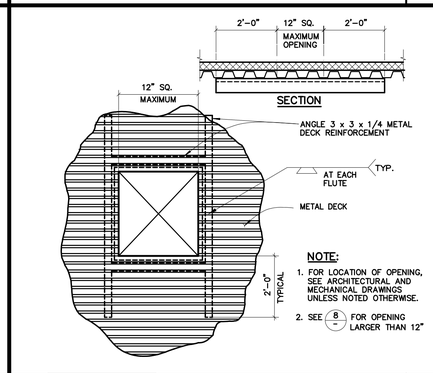
NOTES:

1. USE THIS DETAIL FOR ALL OPENINGS AT THE ROOF WITH GREATER THAN 12" DIMENSION, TYPICAL U.N.O.
2. METAL DECK SUPPLIER TO FURNISH AL SUMP PANS AND REINFORCING ANGLES FOR OPENING UP TO 12" DIMENSION, SEE 9/—
3. (*) MISCELLANEOUS STEEL CONTRACTOR TO VERIFY WITH ALL TRADES FOR NUMBER AND LOCATION OF FRAMED OPENINGS REQUIRED. CUT OPENING IN THE FIELD.

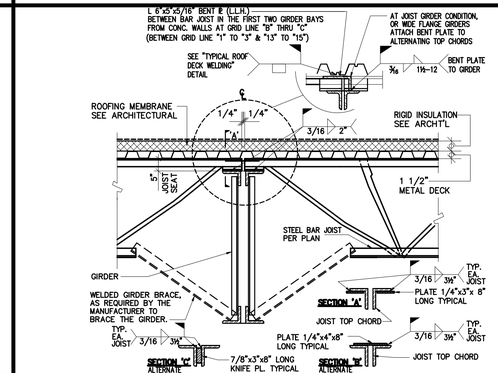
DETAIL (OPENING LARGER THAN 12") | 8



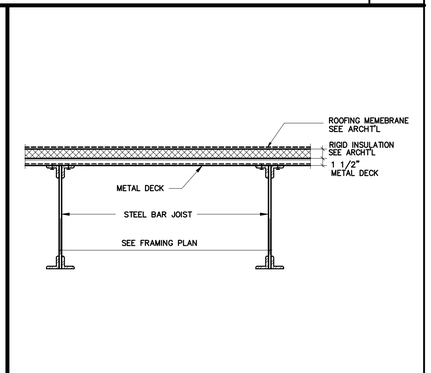
ROOF METAL DECK TO CONCRETE PANEL | 2



DETAIL (OPENING UP TO 12") | 9



DETAIL | 5



ROOF METAL DECK | 3

NOTES:
1) WHERE CONCENTRATED LOADS ARE SUPPORTED BY JOISTS CHORDS AND ARE LOCATED MORE THAN 6" FROM A PANEL POINT, REINFORCE THE JOIST WITH AN ADDED ANGLE EA. SIDE OF JOIST EXTENDING FROM THE POINT LOAD TO THE NEAREST PANEL POINT ON THE OPPOSITE CHORD.
2) REMOVE LOAD FROM JOIST PRIOR TO WELDING ANGLE.

AUXILIARY WEB DETAIL

1) HANG WITHIN 6" OF ANY UPPER PANEL POINT.
2) HANG WITHIN 6" OF ANY LOWER PANEL POINT.
3) TRAPEEZE BETWEEN ANY PANEL POINTS.
4) ADD AN ANGLE E.S. TO REINFORCE THE BOTTOM CHORD SEE DIAGONAL BRACE DETAIL.
5) ADD AN ANGLE E.S. TO REINFORCE THE TOP CHORD SEE DIAGONAL BRACE DETAIL.

NOTES:
1) DO NOT CUT OR DRILL ANY JOIST MEMBER.
2) THIS DETAIL IS APPLICABLE TO SUPPORTING MECH. EQUIPMENT, SPRINKLER PIPES, ETC.
3) JOIST MANUFACTURER TO ACCOUNT FOR ABOVE LOADING ON JOIST DESIGN.
4) ALL FIELD WELDING REQUIRES SPECIAL INSPECTION BY A DEPUTY INSPECTOR.

ALLOWABLE METHODS & LOCATIONS FOR SUPPORTING ADDITIONAL LOADS FROM OPEN WEB STEEL JOIST

LOCATIONS FOR SUPPORTING LOADS FROM OPEN WEB STEEL JOIST | 10

GIRDER TO COLUMN | 6

JOIST TO COLUMN | 4

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CONSTRUCTION DOCUMENTS
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SHEET TITLE:
TYPICAL ROOF FRAMING

SD4.0

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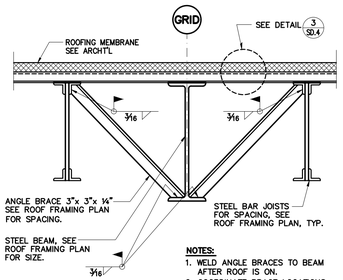
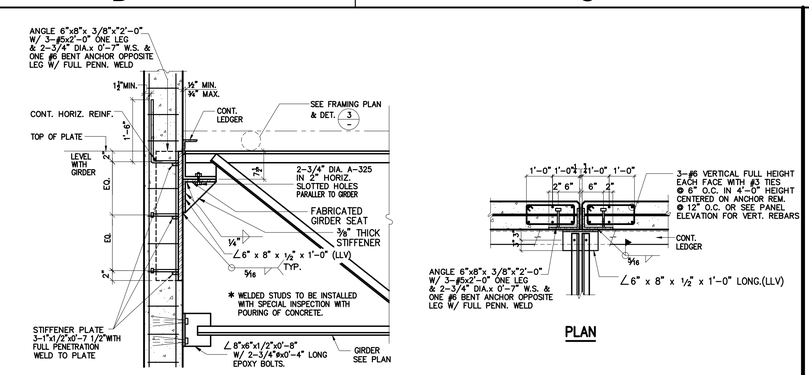
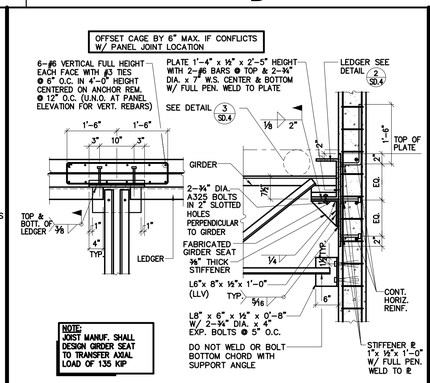


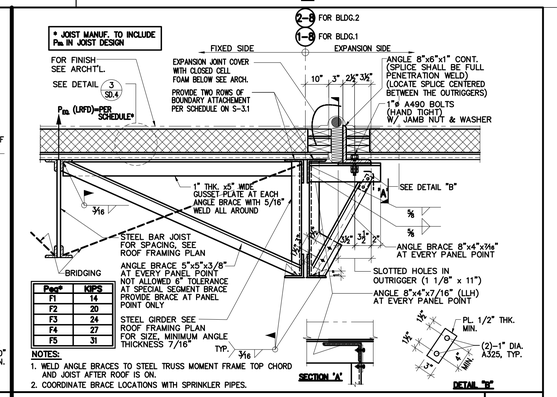
BRACE FRAMING DETAIL | 8A



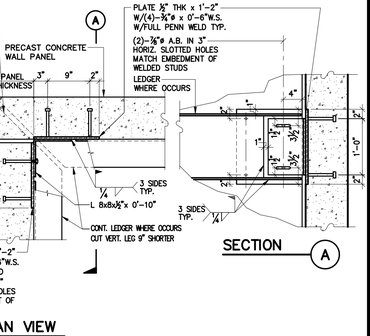
GIRDER TO CONCRETE PANEL | 8

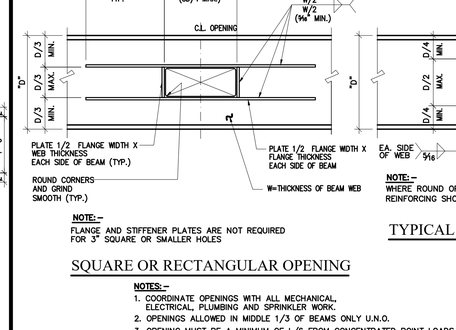


GIRDER TO CONCRETE PANEL | 5



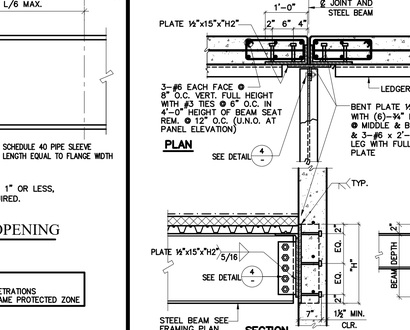
EXPANSION JOINT AT METAL DECK DETAIL | 1



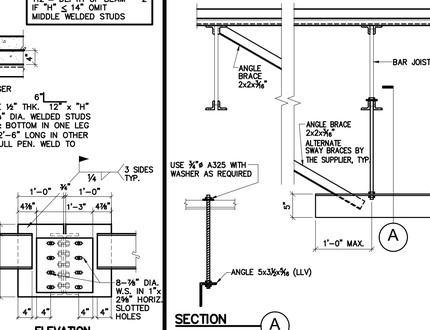


BEAM SIZE	SHEAR PLATE	FASTENERS A325 SC H.S.B.	WELD SIZE(*)	REMARKS
W6, W8	3/8"	2-3/4" DIA.	3/16"	
W10	3/8"	2-7/8" DIA.	3/16"	
W12, W14	3/8"	3-7/8" DIA.	1/4"	
W16	3/8"	4-7/8" DIA.	1/4"	
W18	3/8"	5-7/8" DIA.	1/4"	
W21	3/8"	6-7/8" DIA.	5/16"	
W24	1/2"	6-1" DIA.	5/16"	
W27	1/2"	7-1" DIA.	3/8"	
W30	5/8"	8-1" DIA.	3/8"	
W33	5/8"	9-1" DIA.	3/8"	

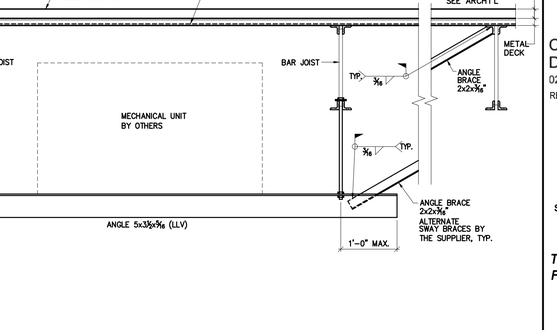
BEAM TO BEAM CONNECTION AND SCHEDULE | 10



BEAM TO COLUMN CONNECTION | 9



DETAIL | 6



EXPANSION JOINT AT METAL DECK DETAIL | 1A

STEEL GIRDER AND STEEL BAR JOIST TO CONCRETE PANEL CONNECTION | 11

STEEL BEAM TO CONCRETE PANEL | 7

JOIST AT COLUMN LINE | 2

BEAM TO CONC. PANEL JOINT DETAIL | 12

DETAIL | 4

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SHEET TITLE:
TYPICAL ROOF FRAMING

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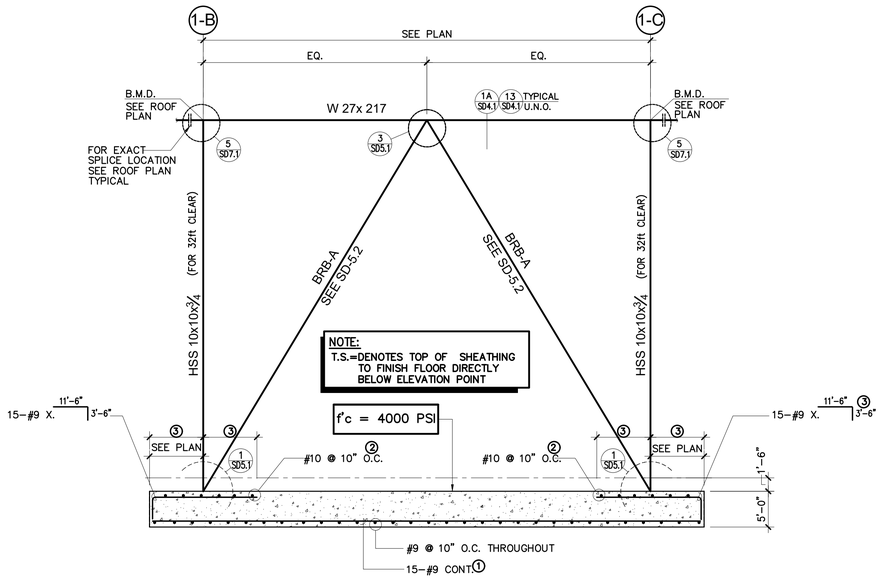
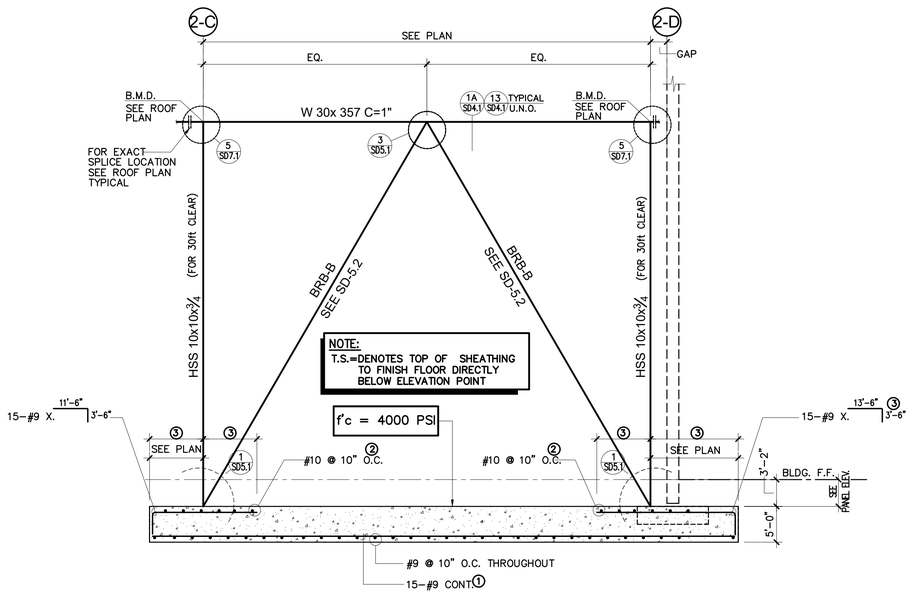


4'-0" MIN. x 16" x 2"	BASE PLATE SIZE (N x B x t) GRADE 50	4'-0" MIN. x 16" x 2"
8-1⅛" DIA.	ANCHOR BOLTS (F1554-GR.105) NUMBER & SIZE	8-1⅛" DIA.

BRACED FRAME ELEVATION ALONG GRID LINE "1-8" | A



4'-0" MIN. x 16" x 2"	BASE PLATE SIZE (N x B x t) GRADE 50	4'-0" MIN. x 16" x 2"
8-1⅛" DIA.	ANCHOR BOLTS (F1554-GR.105) NUMBER & SIZE	8-1⅛" DIA.

BRACED FRAME ELEVATION ALONG GRID LINE "2-8" | B

NOTES:

1. THE LATERAL SYSTEM IS ANALYZED USING THE EQUIVALENT LATERAL FORCE PROCEDURES DESCRIBED IN SECTION 12.8 OF ASCE 7-16 WITH THE FOLLOWING PARAMETERS:
   A. RESPONSE MODIFICATION COEFFICIENT (R) = 8.0
   B. DEFLECTION AMPLIFICATION FACTOR (Cd) = 5.0
   C. REDUNDANCY FACTOR (ρ) = 1.3
   D. SEISMIC IMPORTANCE FACTOR (Ie) = 1.0
   E. DESIGN INELASTIC STORY DRIFT (Δ) = 1.0%
2. BUCKLING-RESTRAINED BRACES ARE TO BE TESTED PER AISC 341-16. SUPPLIER TO SUBMIT PROOF OF EACH BRACE'S COMPLIANCE WITH THE QUALIFIED LOAD AND STRAIN RANGES IN ACCORDANCE WITH THE PROCEDURES AND ACCEPTANCE CRITERIA OF SECTION K3.
3. Pysc PROVIDED IN SCHEDULE IS THE DESIGN AXIAL STRENGTH (Asc Fysc).
4. Fysc IS THE ACTUAL YIELD STRESS OF THE STEEL CORE AS DETERMINED BY COUPON TEST 38ksi ≤ Fysc ≤ 46ksi. ALL BRACES SHOULD BE FABRICATED FROM THE SAME STEEL WITH SIMILAR Fysc. MINIMUM NOTCH TOUGHNESS REQUIREMENTS OF SECTION A3.3 SHOULD BE MET WHEN THICKNESS OF THE CORE MATERIAL EXCEEDS 2 INCHES. SPLICES IN THE STEEL CORE ARE NOT PERMITTED. IF BRACE SUPPLIER DESIRES TO REDESIGN FOR Fysc > 38ksi, SEOR SHOULD BE CONTACTED.
5. EFFECTIVE BRACE STIFFNESS (Keff) TO BE SM x(Asc E / L) WHERE THE VALUES FOR STIFFNESS MODIFICATION FACTOR (SM) AND Asc ARE PER SCHEDULE. L IS THE WORKPOINT-TO-WORKPOINT LENGTH OF THE BRACE. E IS STEEL CORE MATERIAL MODULUS OF ELASTICITY. IF SM TO BE INCREASED BEYOND THE VALUE PROVIDED IN SCHEDULE, INTER-STORY DRIFT CAN BE SCALED ACCORDINGLY. SM RATIO FOR DIFFERENT BRACES MUST BE KEPT CONSTANT. Keff TOLERANCE IS ±5% Kcore TO BE Asc x E/Lcore WHERE Lcore IS THE YIELDING COVER LENGTH
6. BRACE DEFORMATION TO BE CALCULATED AS ΔL =0.9 (Pservice/Kcore) x Cd WHERE Pservice = Pysc / ρ Ie SCALED UP BY 2 OR 2%/Δ , PER SECTION F4.2 OF AISC 341-16, WHICHEVER IS LARGER. BRACE STRAIN TO BE CALCULATED AS ΔL/Lcore CALCULATED STRAINS SHOULD BE BELOW APPROVED TEST RESULTS FOR BRACES AND SUB-ASSEMBLIES DISCUSSED IN NOTE (2).
7. MAXIMUM $\omega\beta$ AND MAXIMUM β SHOULD NOT TO EXCEED VALUES PROVIDED IN SCHEDULE. IN NO CASE SHOULD β BE TAKEN LESS THAN 1.0.
8. ALL CONNECTIONS ARE BOLTED-TYPE OR WELDED CONNECTIONS AND SHOULD BE DESIGNED BY BRB SUPPLIER. BASE PLATE LENGTH SHOULD BE DETERMINED BY THE BRB SUPPLIER BUT NOT LESS THAN MINIMUM LENGTH SPECIFIED ON THE DESIGN DRAWINGS. FORCES SHOULD BE DISTRIBUTED PER THE GENERAL CASE OF THE UNIFORM FORCE METHOD. DESIGN OF GUSSET PLATES SHOULD INCLUDE CONSIDERATIONS OF LOCAL AND OVERALL BUCKLING. BRB SUPPLIER TO CONFIRM SIZE AND WELD OF STIFFENER PLATES PROVIDE AT ROOF BEAMS MID-SPAN. ALL DEMAND CRITICAL WELDS SHOULD BE CLEARLY SPECIFIED ON BRB DESIGN AND SHOP DRAWINGS. DO NOT CHANGE OR ALTER CONNECTION IN FIELD.
9. CASING SHOULD BE SQUARE HSS 14x14 OR SMALLER DESIGNED PER AISC 341-16 REQUIREMENTS AND CONSISTENT WITH APPROVED TESTED BRACES AND SUB-ASSEMBLIES AS DESCRIBED IN SECTION F4.5B (3).
10. BRACE SUPPLIER SHOULD CLEARLY IDENTIFY ON DESIGN AND SHOP DRAWINGS ALL PROTECTED ZONES AND HOW THEY SHOULD BE PROTECTED PER SECTION D1.3 OF AISC341-16.
11. ALL WELDING SHALL BE PER AWS-D1.1 & D1.8 (LATEST VERSION).

BRACE SCHEDULE

BRACE TYPE	Pysc (Kips)	Asc (in²)	MINIMUM STIFFNESS MODIFIER (SM)	MAXIMUM ωβ	MAXIMUM β	REMARKS
BRB-A	437	11.5	1.15	1.58	1.268	
BRB-B	380	10	1.15	1.569	1.266	

REINFORCEMENT NOTES:

1. SPLICE OF CONTINUOUS BOTTOM BARS SHOULD BE WITHIN QUARTER SPAN FROM SUPPORT.
2. TOP TRANSVERSE & LONGITUDINAL REINFORCEMENT SHOULD BE EXTENDED 6'-0" ON EACH SIDE OF COLUMN.
3. TOP TRANSVERSE & LONGITUDINAL REINFORCEMENT AT ENDS SHOULD BE EXTENDED 5'-9" ON EACH SIDE OF EDGE COLUMNS.
5. TOP TRANSVERSE & LONGITUDINAL REINFORCEMENT AT ENDS SHOULD BE EXTENDED 11'-9" ON EACH SIDE OF EDGE COLUMNS.
4. MAINTAIN 3" CLR. COVER ALL AROUND REINFORCEMENT,TYPICAL-SLIGHTLY ADJUST PROVIDED REINF. LENGTHS AS NEEDED TO MAINTAIN COVER.

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SHEET TITLE:
BRACED FRAME ELEVATIONS

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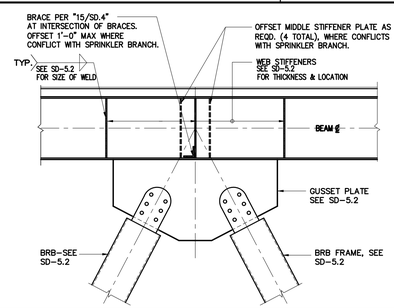
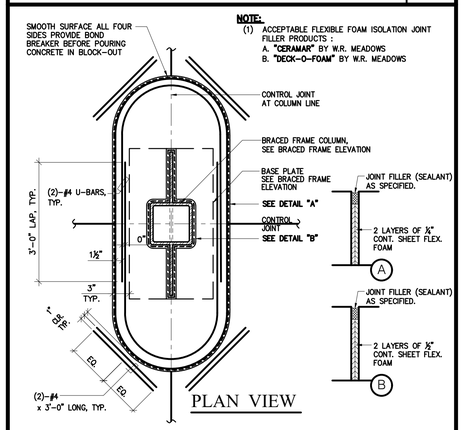
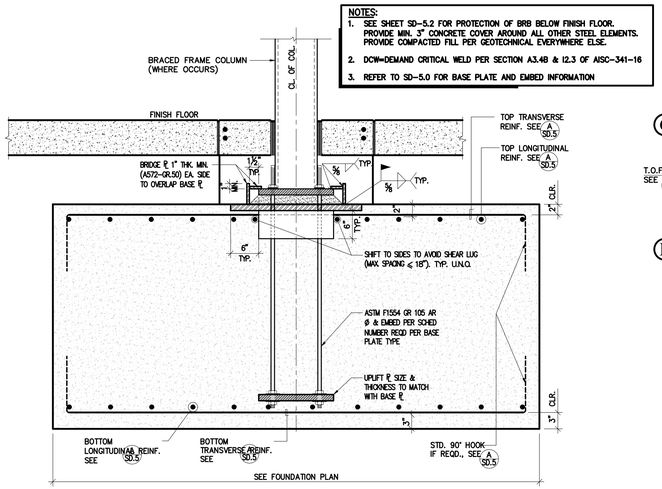
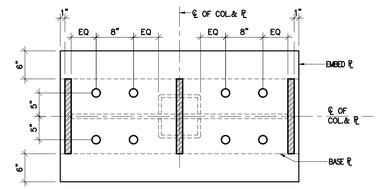


BRACED FRAME DETAIL | 3



COLUMN BLOCK-OUT DETAIL | 4





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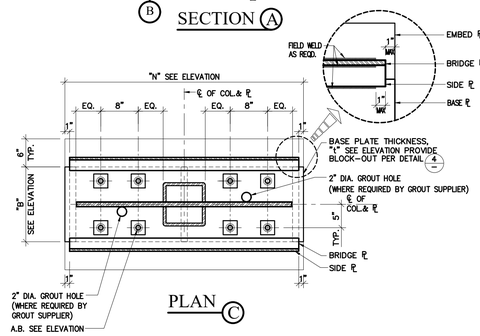

PLAN C

BRACED FRAME DETAIL | 1

DETAIL | 6

DETAIL | 7

DETAIL | 5

DETAIL | 2

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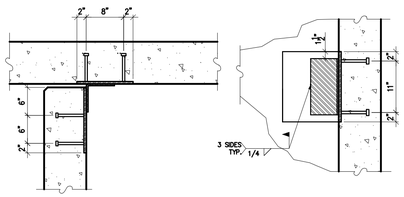
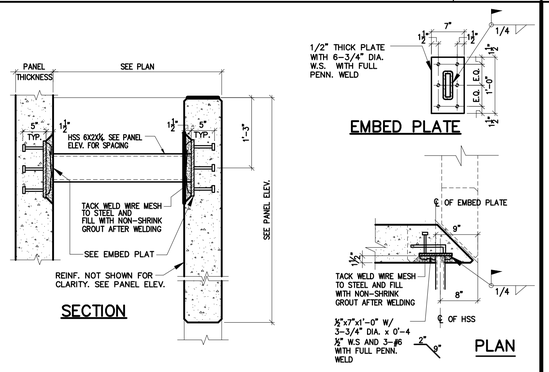


CORNER CONNECTION | 15



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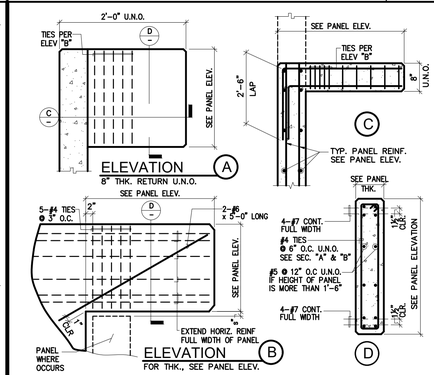

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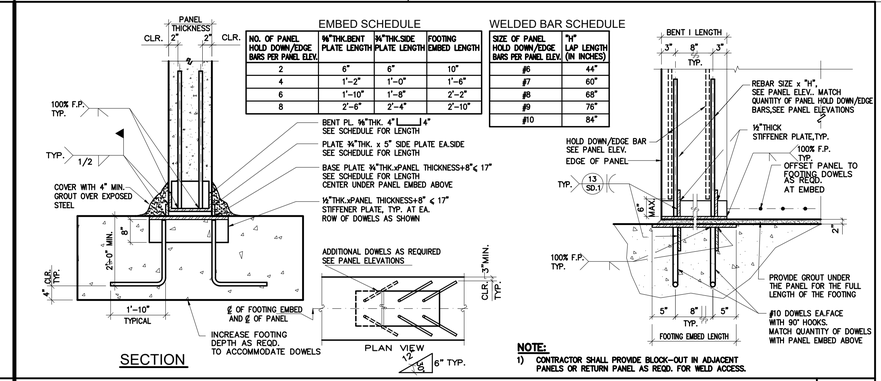
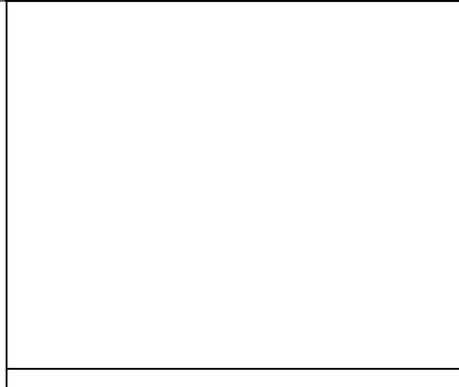
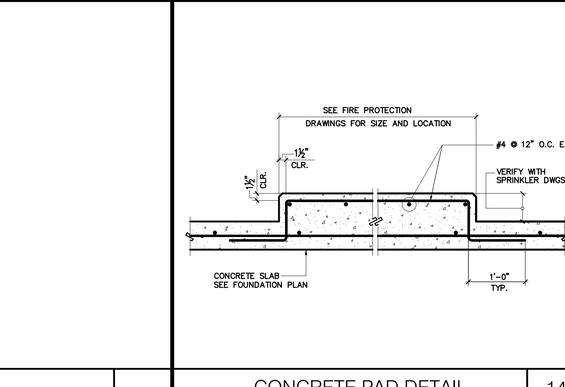


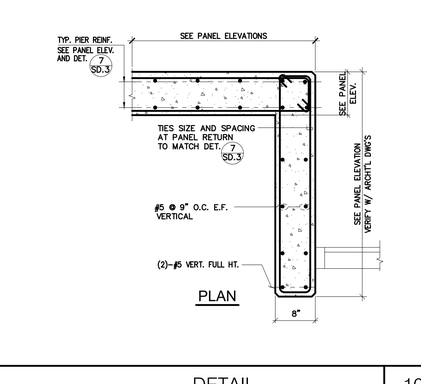
PANEL HOLD DOWN CONNECTION | 1



PANEL CONNECTION | 16



DETAIL | 12



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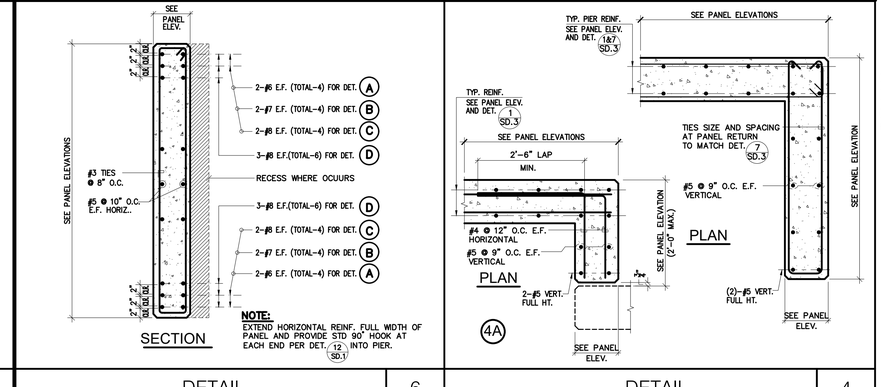

PANEL HOLD DOWN CONNECTION | 2

DETAIL | 17

FOOTING BUMP OUTS | 13

DETAIL | 9

DETAIL | 5

DETAIL | 3

CONCRETE PAD DETAIL | 14

DETAIL | 10

DETAIL | 6

DETAIL | 4

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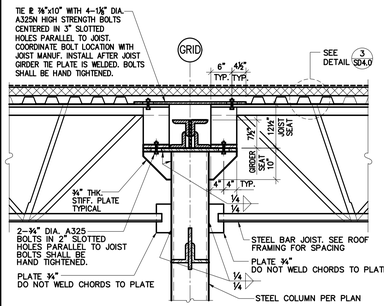

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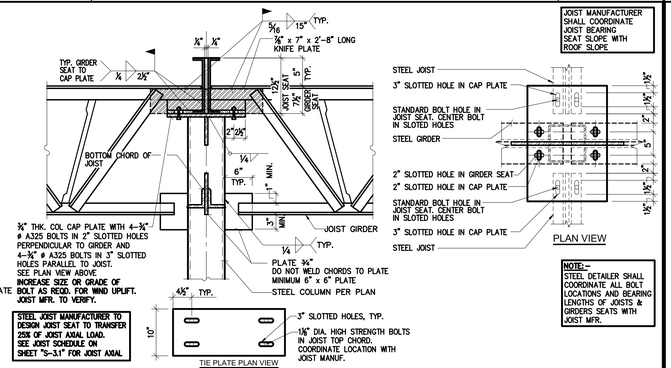

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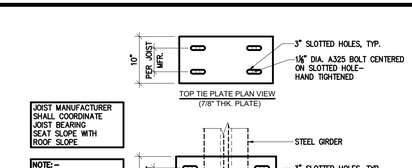

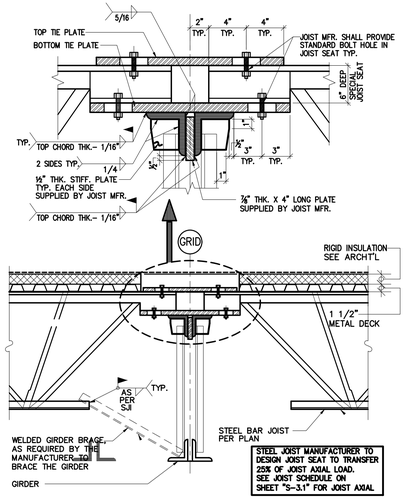

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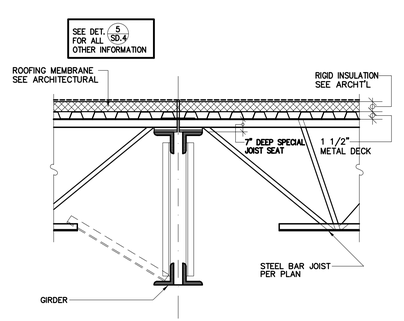
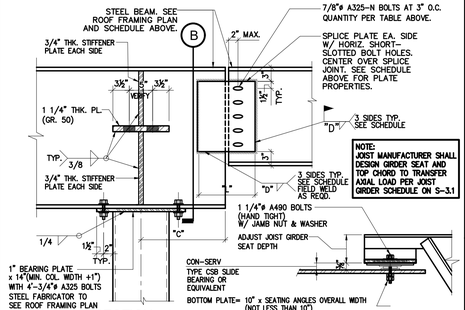
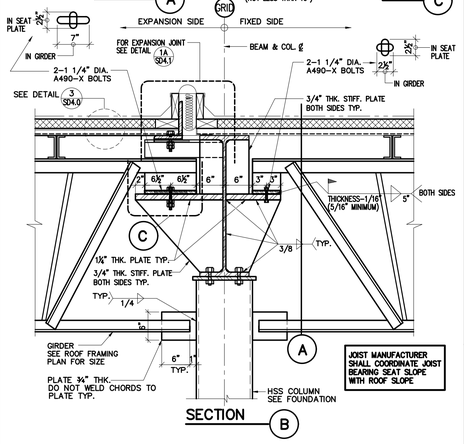


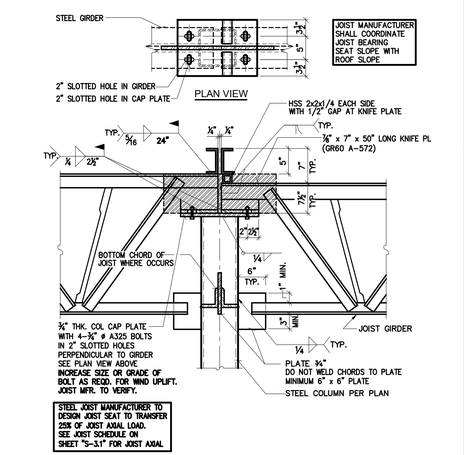
STEEL BAR JOIST TO GIRDER | 9

SPLICE CONNECTION TABLE					
BEAM SIZE	NO. OF BOLTS	SPLICE PLATE THICKNESS	SPLICE PLATE LENGTH "L"	FILLET WELD SIZE "D"	CANT. DIM. "C"
W36x	10	3/8"	12"	5/16	1'-6"
W33x	9	3/8"	12"	5/16	1'-6"
W30x	8	3/8"	12"	5/16	1'-6"
W27x	7	3/8"	12"	5/16	1'-6"
W24x	6	3/8"	12"	5/16	1'-6"

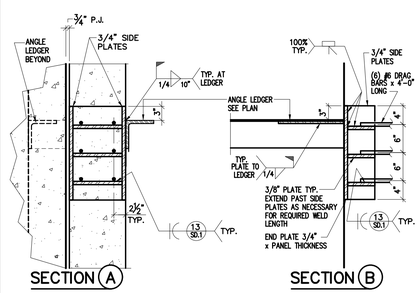




EXPANSION JOINT DETAIL AT COLUMN | 5



GIRDER TO COLUMN | 6



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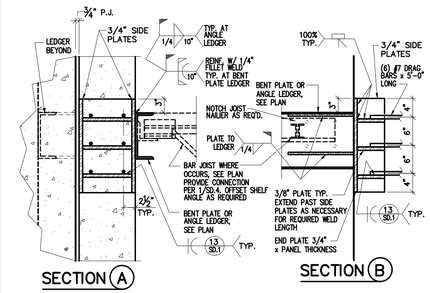

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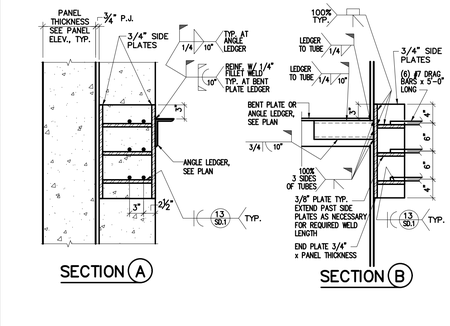
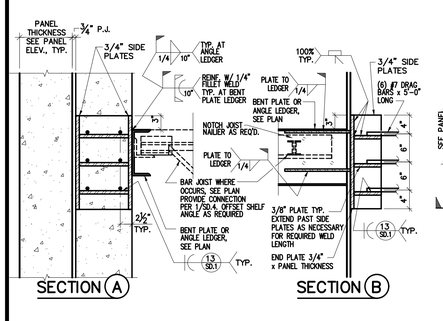


DETAIL | 3



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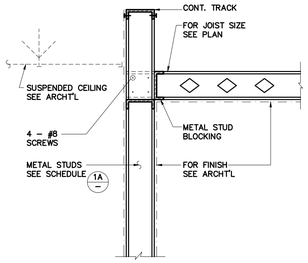
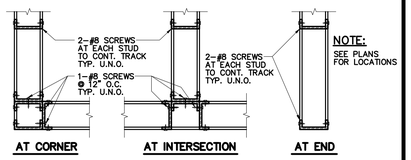


DETAIL 9



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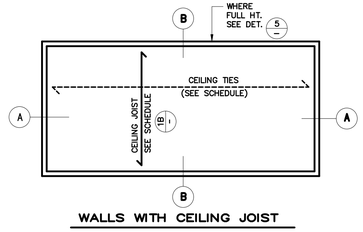
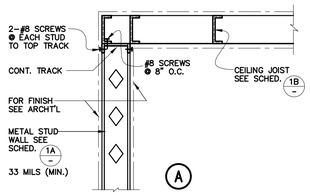
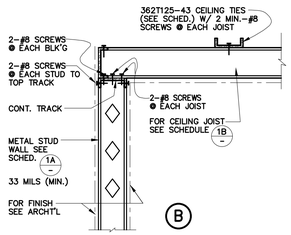
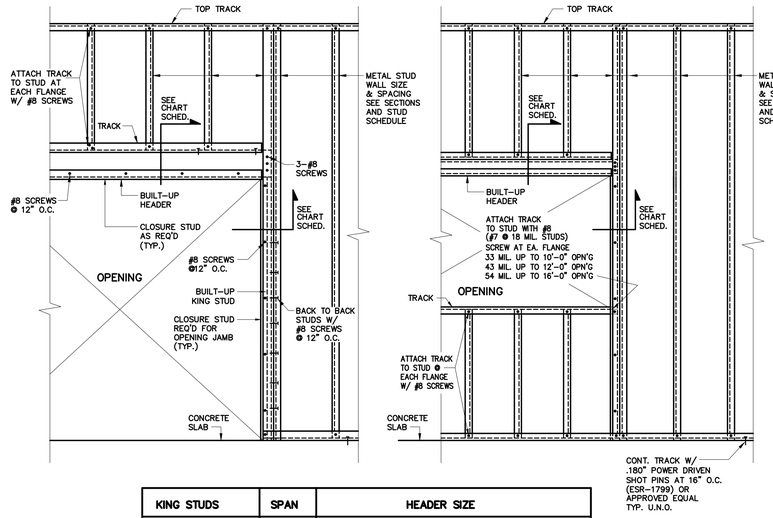


WALLS WITH CEILING JOIST





DETAIL (DRY WALL CEILING) 7



KING STUDS	SPAN	HEADER SIZE
1/ TO MATCH WALL	4'–0"	362S 162–33 INT. 362S 162–43 DEMISING — SIZE OF WALL AND 33 MILS
1/ PARTITION WALL 2/ DEMISING WALL	6'–0"	362S 162–33 INT. — SIZE OF WALL AND 33 MILS 600S 162–43 DEMISING — SIZE OF WALL AND 33 MILS
2	8'–0"	600S 162–33 INT. 600S 162–43 DEMISING — SIZE OF WALL AND 33 MILS
3	12'–0"	800S 162–43 INT. 800S 162–54 (50 KSI) DEMISING — SIZE OF WALL AND 43 MILS
3	16'–0"	800S 162–54 INT. 800S 162–68 (50 KSI) DEMISING — SIZE OF WALL AND 54 MILS

DETAIL (PARTIAL HEADER DETAIL) 3

INTERIOR PARTITIONS (NON–LOAD BEARING)

1. BUILDING CODE USED IS IBC 2021 / AISI S100–2016 / CBC 2022.
2. ALL THE METAL STUDS USED SHALL BE 33 KSI U.N.O. CONFORMING TO BUILDING CODE. ALL THE METAL STUDS SHALL CONFORM TO STEEL STUD MANUF'S ASSOC., (SSMA) ICC–ESR 3064P
3. THE BRIDGING, BLOCKING OR END BEARING STIFFENERS SHALL BE AS REQUIRED BY THE MANUFACTURER UNLESS NOTED OTHERWISE ON THE DRAWINGS.
4. DRYWALL(GYPBOARD) FINISH IS ON BOTH SIDES OF WALL OR MUST BE BLOCKED/STRAPPED BY THE MANUFACTURER U.N.O.
5. UNLESS OTHERWISE NOTED ON THE PLANS, USE THE FOLLOWING GUIDELINE FOR STUD SIZE & SPACING FOR INTERIOR PARTITIONS. (A)
6. TOP TRACK SIZE WILL BE MIN. .33MIL FOR PARTITION U.N.O.
7. DESIGN LOAD: LATERAL LOAD = 5 PSF, DEFLECTION LIMIT = L/120
8. SEE ARCH'L FOR STUD WIDTH REQUIRED FOR FULL HEIGHT DEMISING WALL (8" STUDS MIN)

METAL STUDS	SIZE (SSMA DESIGNATION)	MAXIMUM SPACING	MAXIMUM HEIGHT
3–5/8" X 25 GA	362S125–18	16"	11'–9"
3–5/8" X 20 GA	362S125–33	16"	18'–9"
6" X 20 GA	600S125–33	16"	25'–0"
8" X 18 GA	800S137–43	24"	32'–0"
8" X 18 GA	800S200–43	24"	37'–0"
8" X 14 GA	800S200–68 (50KSI)	24"	46'–0"

CEILING JOISTS (GYPBOARD CEILING)

1. BUILDING CODE USED IS IBC 2021 / AISI S100–2016 / CBC 2022.
2. ALL THE METAL STUDS USED SHALL BE 33 KSI U.N.O. CONFORMING TO BUILDING CODE.
3. STUD TRACKS SHALL BE UNPUNCHED STUDS OF SAME GAUGE AS STUD UNLESS NOTED OTHERWISE.
4. 362T125–43 CEILING TIES (SEE SCHEDULE) WITH 2 – #8 SCREWS AT EACH JOIST.
5. GYPBOARD IS ON ONE SIDE OF CEILING U.N.O.
6. DESIGN LOAD: DEAD LOAD = 5 PSF & LIVE LOAD = 10 PSF, TOTAL DEFLECTION LIMIT = L/360 (B)

NO STORAGE LOAD ALLOWED

SIZE (SSMA DESIGNATION)	MAXIMUM SPACING	MAXIMUM SPAN	CEILING TIES (BRACING) MAX. SPACING (7)
** 362S125–18 (25 GA)	16"	6'–0"	4'–0"
362S125–33 (20 GA)	16"	9'–6"	4'–0"
600S125–33 (20 GA)	16"	14'–0"	4'–0"
800S137–43 (18 GA)	16"	20'–6"	4'–0"

** WEB STIFFENER TO BE REQUIRED AT SUPPORTS. USE STUD SEGMENT OR MIN. 25GA. CLIP ANGLE.

EXAMPLE:

MEMBER DEPTH:
(Example: 6"=600 x 1/100 inches)
All member depths are taken in 1/100 inches
For all "I" sections member depth is the inside to insided dimension.

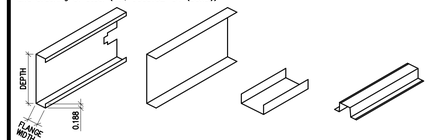
FLANGE WIDTH:
(Example: 1 5/8" = 1.625"=162 x 1/100 inches)
All flange widths are taken in 1/100 inches

600 S 162 -54

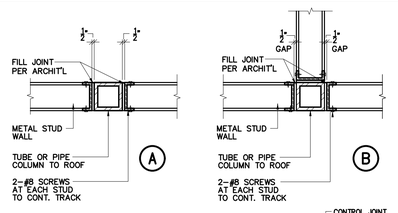
STYLE:
(Example: Stud or Joist section = S)
The four alpha characters utilized by the designator system are:
S = Stud or Joist Sections
T = Track Sections
U = Channel Sections
F = Furring Channel Sections

MATERICAL THICKNESS:
(Example; 0.054 in. = 54 mils: 1 mil = 1/1000 in.) designator system are:
Material thickness is the minimum base metal thickness in mils. Minimum base metal thickness represents 95% of the design thickness.

Note: For those sections where two different yield strengths (33 ksi and 50 ksi) are shown, the yield strenth use in the design. If greater than 33 ksi, needs to be identified on the design and ordering of steel (i.e., 600s162–54 (50ksi))

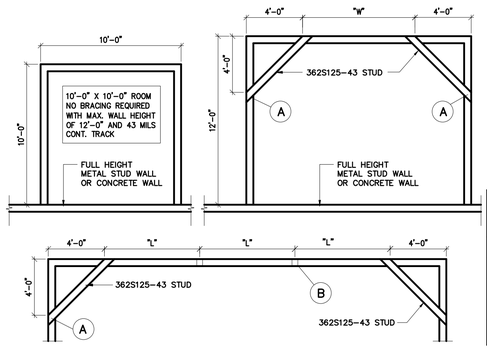


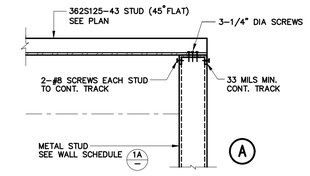
DETAIL 1

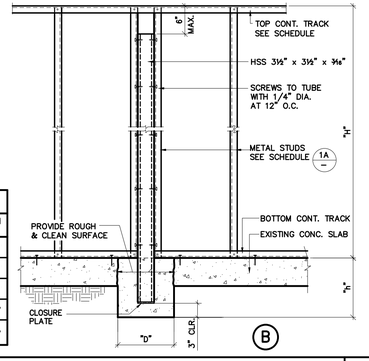


NOTE: –
PROVIDE GAP AS SHOWN AT FULL HEIGHT DEMISING WALLS ONLY. FILL JOINT PER ARCH'L.

DETAIL 11

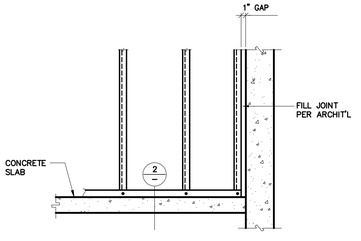




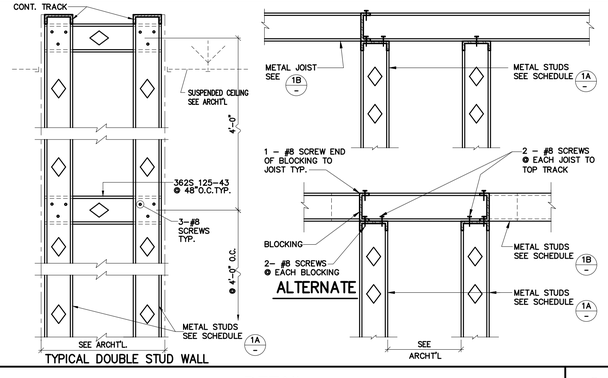


WALL HEIGHT "H"	33 MILS. CONT. TRACK FOR MAX. ROOM WIDE "W"	43 MILS. CONT. TRACK FOR MAX. ROOM WIDE "W"	MAXIMUM STEEL TUBE SPACING "L"	FOOTING DIAMETER "D"	FOOTING DEPTH "T"
6'–0"	12'–3"	14'–6"	12'–3"	1'–0"	1'–0"
8'–0"	10'–6"	12'–6"	10'–6"	1'–0"	1'–0"
10'–0"	9'–6"	11'–3"	8'–0"	1'–0"	1'–0"
12'–0"	8'–6"	10'–3"	8'–3"	2'–0"	3'–0"
14'–0"	8'–0"	9'–6"	8'–0"	2'–0"	3'–6"

WALL PARTITION BRACE LAYOUT (WALLS WITHOUT CEILING JOISTS) 4

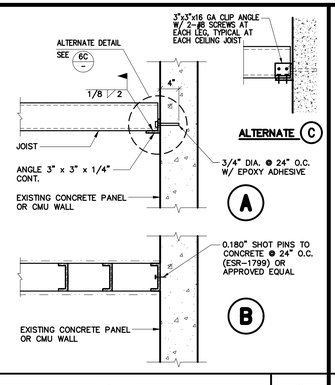


DETAIL 12

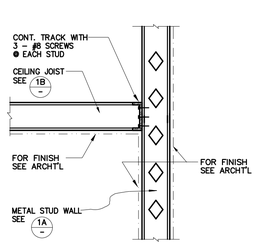


TYPICAL DOUBLE STUD WALL

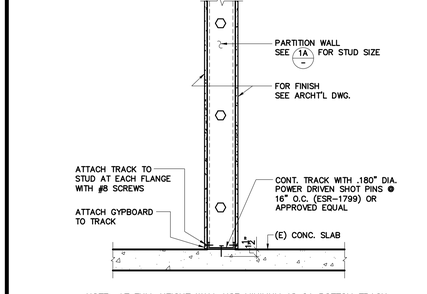
DETAIL 8



DETAIL 6



JOIST TO STUD DETAIL 5



NOTE: AT FULL HEIGHT WALL USE MINIMUM 18 GA BOTTOM TRACK

PARTITION WALL DETAIL 2

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HSA & ASSOCIATES, INC.
CONSULTING STRUCTURAL ENGINEERS
2174 East 3300 South Avenue,
Suite 500
Salt Lake City, UT 84121
Tel: (801) 521-9931

HSA PROJECT NO.: 25-117
DRAWN BY: T.T./M.F.

PROFESSIONAL STRUCTURAL ENGINEER
No. 9348368
RAFIK NEFAAT GERGES
STATE OF UTAH

7800 LOGISTICS W. JORDAN
GO INDUSTRIAL
4555 W 7800 S (BLDG.1) & 7888 Airport Road (BLDG.2).
WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

SHEET TITLE:
METAL STUD DETAILS

SD8.0

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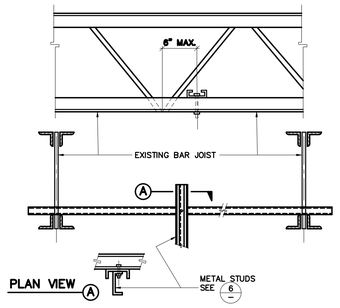
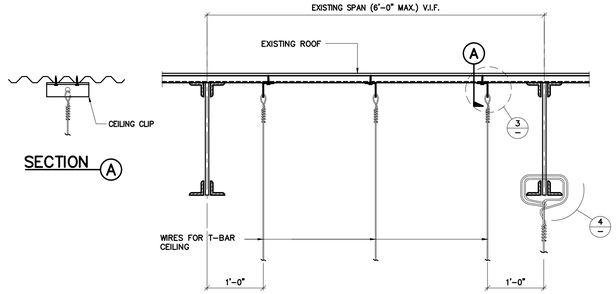
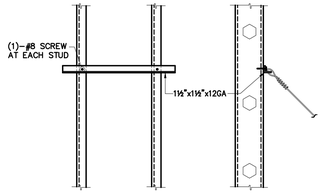


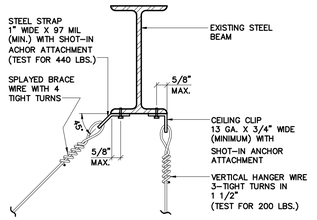
CEILING STRUT DETAILS | 7



WIRE LOCATIONS | 1



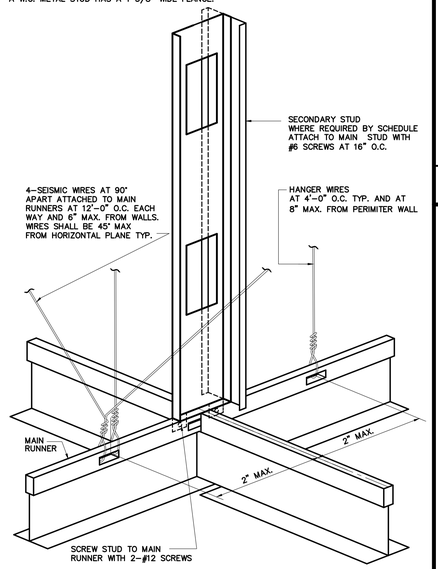
WIRE AT METAL STUDS | 5



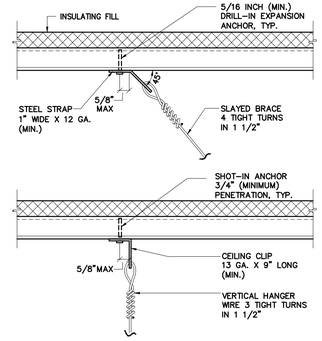
WIRE AT STEEL BEAM | 2

SCHEDULE			
METAL STUDS	SIZE (SSMA DESIGNATION)	MAX. HT. OF COMPRESSION STRUT	
		SINGLE STUD	DOUBLE STUD
2 1/2" x 20 GA.	250S125-33	7'-0"	16'-6"
3 5/8" x 20 GA.	362S125-33	–	23'-0"
3 5/8" x 18 GA.	362S137-43	8'-0"	23'-6"
6" x 20 GA.	600S125-33	–	36'-0"
6" x 18 GA.	600S137-43	–	37'-0"
8" x 18 GA.	800S137-43	–	47'-6"

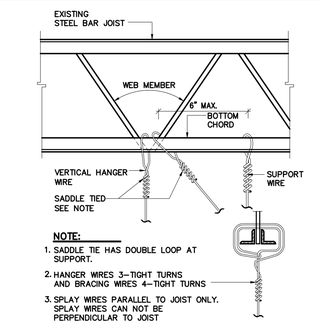
NOTES:
1. FOR DOUBLE STUD ATTACH WEB TO FLANGE WITH NO. 6 SCREW @ 16" O.C. U.B.C. A S.S. METAL STUD HAS A 1 1/4" WIDE FLANGE A W.C. METAL STUD HAS A 1 5/8" WIDE FLANGE.



T-BAR CEILING STRUT DETAIL & SCHED. | 6



DETAIL | 3



NOTE:
1. SADDLE TIE HAS DOUBLE LOOP AT SUPPORT.
2. HANGER WIRES 3-TIGHT TURNS AND BRACING WIRES 4-TIGHT TURNS
3. SPLAY WIRES PARALLEL TO JOIST ONLY. SPLAY WIRES CAN NOT BE PERPENDICULAR TO JOIST
4. MAX. LOAD PER HANGER = 50 LBS.

WIRE AT STEEL BARJOIST | 4

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PROFESSIONAL STRUCTURAL ENGINEER
No. 9301368
RAFIK REFAAT GERGES
STATE OF UTAH

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CONSTRUCTION DOCUMENTS
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REVISIONS

SHEET TITLE:

T-BAR CEILING DETAILS

SD9.0

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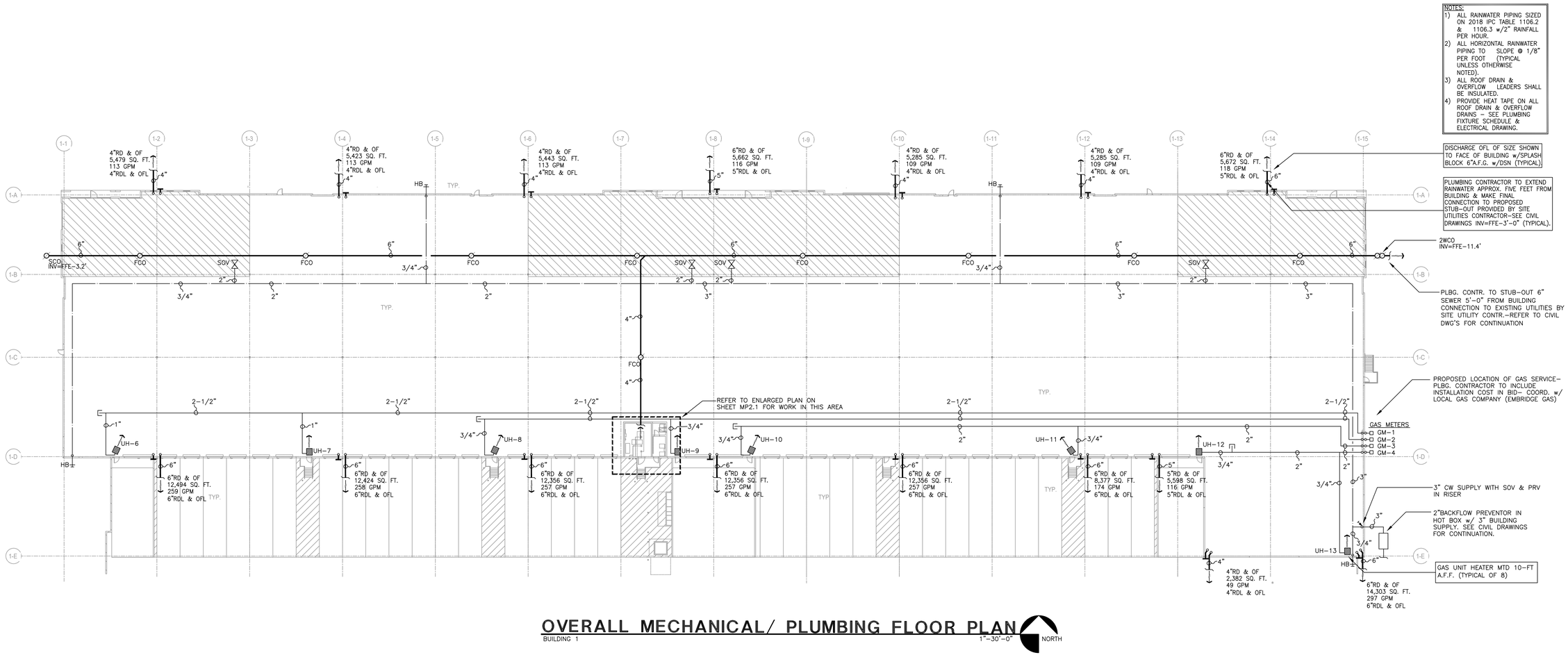

OVERALL MECHANICAL/ PLUMBING FLOOR PLAN

BUILDING 1 — 1"=30'-0" — NORTH

DLR GROUP © DLR Group

PROFESSIONAL ENGINEER — Mark Moerti — No. 7886810-2202 MATTHEW MOERTI — STATE OF UTAH — 02/27/2026

Notice of Extended Payment Provision
This contract allows the owner to make payment within 16 days after certification and approval of billings and estimates for progress payments, within 16 days after certification and approval of billings and estimates for release of retention and within 16 days after certification and approval of billings and estimates for final payment.

7800 LOGISTICS W. JORDAN
GO INDUSTRIAL
4501 W 7800 S.
WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

29-26101-00

BLDG 1 - OVERALL MECH./PLBG FLOOR PLAN

MP1.1

MECHANICAL DESIGNS, INC. MDI
5635 E. Thomas Road Phoenix, AZ 85018
Job No. 21004
Consulting Engineers
Phone (602) 943-6608
Web: MechDesigns.com

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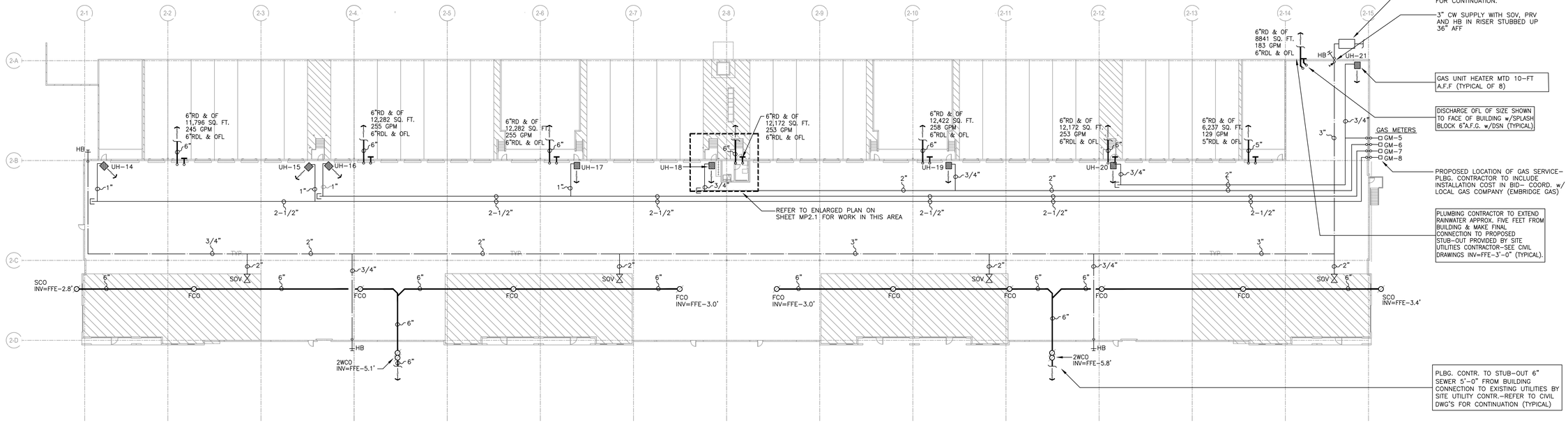

OVERALL MECHANICAL/ PLUMBING FLOOR PLAN

BUILDING 2

1"-30'-0" NORTH

NOTES:
1) ALL RAINWATER PIPING SIZED ON 2018 IPC TABLE 1106.2 & 1106.3 w/2" RAINFALL PER HOUR.
2) ALL RAINWATER PIPING TO SLOPE @ 1/8" PER FOOT (TYPICAL UNLESS OTHERWISE NOTED).
3) ALL ROOF DRAIN & OVERFLOW LEADERS SHALL BE INSULATED.
4) PROVIDE HEAT TAPE ON ALL ROOF DRAIN & OVERFLOW DRAINS - SEE PLUMBING FIXTURE SCHEDULE & ELECTRICAL DRAWING.

DLR GROUP
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PROFESSIONAL ENGINEER
Matt Moertl
No. 7886810-2202
MATTHEW MOERTL
STATE OF UTAH
02/27/2026

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GO INDUSTRIAL
4501 W 7800 S,
WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
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29-26101-00

BLDG 2 - OVERALL MECH./PLBG FLOOR PLAN

MP1.2

MECHANICAL DESIGNS INC. MDI
5635 E. Thomas Road Phoenix, AZ 85018
Job No 21004
Consulting Engineers
Phone (602) 943-6608
Web: MechDesigns.com

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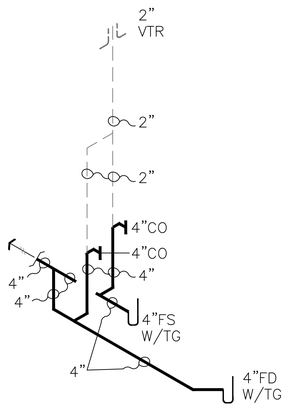
ENLARGED MECHANICAL/ PLUMBING FLOOR PLAN

BUILDING 1

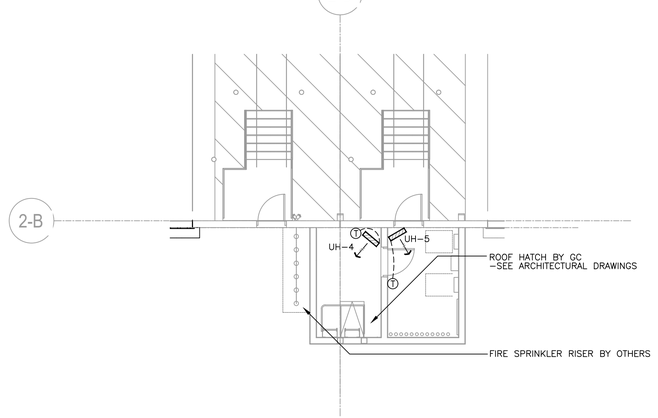
1/8"=1'-0" NORTH



WASTE & VENT DIAGRAM

FIRE PUMP ROOM

NTS



ENLARGED MECHANICAL/ PLUMBING FLOOR PLAN

BUILDING 2

1/8"=1'-0" NORTH

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PROFESSIONAL ENGINEER
No. 7886810-2202
MATTHEW MOERTL
STATE OF UTAH
02/27/2026

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WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
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29-26101-00
ENLARGED MECH./PLBG FLOOR PLANS

MP2.1

MECHANICAL DESIGNS INC
5635 E. Thomas Road Phoenix, AZ 85018
Job No. 21004
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Phone (602) 943-6608
Web: MechDesigns.com

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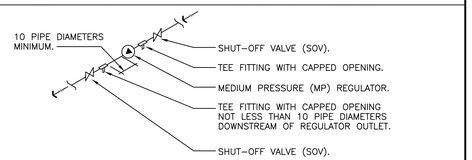
GAS METER SCHEDULE (2.0PSI DELIVERY)

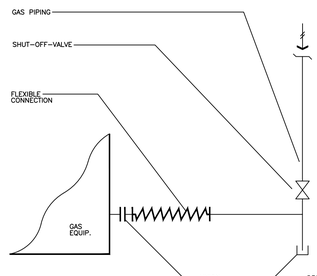
GAS METER NUMBER	TOTAL DEVELOPED LENGTH	TOTAL CFH INSTALLED	FUTURE CFH ALLOWED	MAIN LINE SIZE
1	1100FT	800	3850	2.5"
2	700FT		4840	2.5"
3	600FT		3050	2"
4	300FT		4800	2"
5	350FT		5380	2"
6	650FT		2880	2"
7	950FT		3980	2.5"
8	1100FT		3850	2.5"

NOTE: SEE FLOOR PLAN FOR COMPLETE MAIN LINE SIZES AND GAS DIAGRAM FOR TYPICAL SIZES.

TYPICAL MEDIUM PRESSURE REGULATOR ASSEMBLY

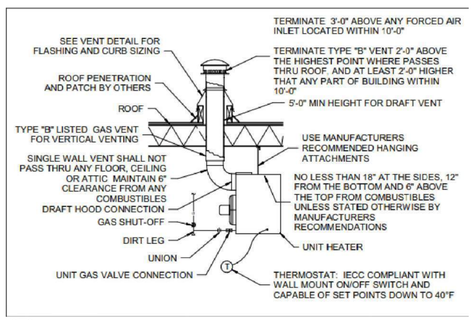


NOTE:
MEDIUM PRESSURE REGULATOR INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2021 INTERNATIONAL FUEL GAS CODE SECTION 410.



GAS PIPING CONNECTION DETAIL

NTS



NOTES:
1. OR EQUAL AS APPROVED BY SPECIFYING ENGINEER
2. MC TO PROVIDE AND INSTALL ASHRAE90.1 COMPLIANT THERMOSTAT FOR EACH UNIT HEATER MOUNTED AT 4-FT A.F.F. MOUNT OF 4x4 BOX WITH ISOLATION BASE. ROUTE CONDUIT UP WALL TO UNIT HEATER
3. MC TO PROVIDE AND INSTALL WIND RESISTANT VENT CAP AT VENT TERMINATION
4. MC TO PROVIDE AND INSTALL OUTSIDE AIR AND FLUE CONNECTIONS ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND REQUIREMENTS. VENT UNIT HEATERS THROUGH ROOF.
5. MOUNT UNIT AT 10-FT A.F.F. AND VANES BLOWING DOWN TO FLOOR AT APPROXIMATELY 30-DEGREE ANGLE.
6. CONTRACTOR TO VERIFY SITE CONDITIONS AND CONFIRM THAT SITE VOLTAGE MATCHES THE VOLTAGE SPECIFIED. REPORT ANY DISCREPANCIES O SPECIFYING ENGINEER.
7. STEP DOWN TRANSFORMERS FROM LINE VOLTAGE TO 120 VAC TO BE PROVIDED BY INSTALLING ELECTRICAL CONTRACTOR

UNIT HEATER DETAIL

BUILDING 1 WATER CALCULATIONS

TOTAL NUMBER OF FIXTURE UNITS = 245 @ 100 GPM (FLUSH VALVE)/395 @ 100 GPM (FLUSH TANK)

PRESSURE @ METER = 105 PSI - 11 PSI (BFP) - 8 PSI (ML) = 86 PSI

USE 2" WATER METER WITH 2" BFP AND 3" BUILDING SERVICE

SET PRV TO 80PSI

80 - [25 + (30 x .43)] = 42.1 PSI

ALLOWABLE LOSS/100 FEET OF TOTAL DEVELOPED LENGTH OF PIPE:

100 x 42.1 / 1250 FEET = 3.4 PSI

PLUMBING CONTRACTOR TO VERIFY AND COORDINATE EXACT STREET PRESSURE AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

PLUMBING CONTRACTOR TO PROVIDE A PRESSURE REDUCING VALVE (PRV) ON CUSTOMER SIDE OF WATER METER IF THE STREET PRESSURE EXCEED 80 PSI, PRV TO BE SET @ 80 PSI

PLUMBING CONTRACTOR TO PROVIDE AND INSTALL A WATTS #LF909 OR EQUAL REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER SAME SIZE AS WATER METER BETWEEN WATER METER AND BUILDING. BACKFLOW PREVENTER SHALL BE READILY ACCESSIBLE FOR INSPECTION.

BEFORE THE LOCAL JURISDICTION WILL ACCEPT AN INSTALLED BACKFLOW DEVICE FOR APPROVAL, THE FOLLOWING MUST BE ACCOMPLISHED. THE DEVICE MUST BE TESTED BY A STATE CERTIFIED BACKFLOW TESTER AND TEST RESULTS FORWARDED TO THE LOCAL JURISDICTION BACKFLOW SPECIALIST. THE LOCAL JURISDICTION WILL PROVIDE AN UP-TO-DATE LIST OF CERTIFIED TESTERS FROM WHICH TO BE SELECTED. TESTER FEES WILL BE AT THE EXPENSE OF THE INSTALLER.

BUILDING 2 WATER CALCULATIONS

TOTAL NUMBER OF FIXTURE UNITS = 245 @ 100 GPM (FLUSH VALVE)/395 @ 100 GPM (FLUSH TANK)

PRESSURE @ METER = 105 PSI - 11 PSI (BFP) - 8 PSI (ML) = 86 PSI

USE 2" WATER METER WITH 2" BFP AND 3" BUILDING SERVICE

SET PRV TO 80PSI

80 - [25 + (30 x .43)] = 42.1 PSI

ALLOWABLE LOSS/100 FEET OF TOTAL DEVELOPED LENGTH OF PIPE:

100 x 42.1 / 1150 FEET = 3.7 PSI

PLUMBING CONTRACTOR TO VERIFY AND COORDINATE EXACT STREET PRESSURE AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

PLUMBING CONTRACTOR TO PROVIDE A PRESSURE REDUCING VALVE (PRV) ON CUSTOMER SIDE OF WATER METER IF THE STREET PRESSURE EXCEED 80 PSI, PRV TO BE SET @ 80 PSI

PLUMBING CONTRACTOR TO PROVIDE AND INSTALL A WATTS #LF909 OR EQUAL REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER SAME SIZE AS WATER METER BETWEEN WATER METER AND BUILDING. BACKFLOW PREVENTER SHALL BE READILY ACCESSIBLE FOR INSPECTION.

BEFORE THE LOCAL JURISDICTION WILL ACCEPT AN INSTALLED BACKFLOW DEVICE FOR APPROVAL, THE FOLLOWING MUST BE ACCOMPLISHED. THE DEVICE MUST BE TESTED BY A STATE CERTIFIED BACKFLOW TESTER AND TEST RESULTS FORWARDED TO THE LOCAL JURISDICTION BACKFLOW SPECIALIST. THE LOCAL JURISDICTION WILL PROVIDE AN UP-TO-DATE LIST OF CERTIFIED TESTERS FROM WHICH TO BE SELECTED. TESTER FEES WILL BE AT THE EXPENSE OF THE INSTALLER.

BUILDING 1 PIPE SIZING CHART

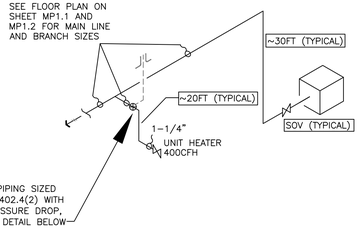
PIPE SIZE	GPM	FIXTURE UNITS	
		FLUSH VALVE	OTHER
1/2"	2	-	2
3/4"	5	-	5
1"	11	-	16
1 1/4"	19	6	29
1 1/2"	30	12	55
2"	66	92	205
2 1/2"	118	350	460
3"	200	950	950

BUILDING 2 PIPE SIZING CHART

PIPE SIZE	GPM	FIXTURE UNITS	
		FLUSH VALVE	OTHER
1/2"	2	-	2
3/4"	5	-	6
1"	12	-	17
1 1/4"	21	6	31
1 1/2"	32	12	58
2"	68	105	220
2 1/2"	120	375	475
3"	210	975	975

PROVIDE DIRT LEG WITH THREADED CAP DOWNSTREAM OF ALL FIXTURE/ APPLIANCE SOV'S.

NOTE:
COORDINATE EXACT SIZE, LOCATION, AND BTU LOADS ON ALL EQUIPMENT WITH OWNER AND CONTRACTOR PRIOR TO ANY CONSTRUCTION OR INSTALLATION (TYPICAL)



GAS REGULATOR
400 CFH TOTAL-GAS PIPING SIZED ON 2021 IFGC TABLE 402.4(2) WITH <2PSI & 0.5"W.C. PRESSURE DROP, AND TDL OF 40'. SEE DETAIL BELOW

GAS METER (2.0 PSI DELIVERY)- TYPICAL OF 8
800 CFH TOTAL-GAS PIPING SIZED ON 2021 IFGC TABLE 402.4(5) WITH 0.1"W.C. PRESSURE DROP (SEE GAS METER SCHEDULE @ UPPER LEFT OF THIS SHEET FOR TOTAL DEVELOPED LENGTH)

GAS PIPING DIAGRAM

TYPICAL UNIT HEATER NTS

MECHANICAL EQUIPMENT SCHEDULE

MECHANICAL CONTRACTOR SHALL COORDINATE AMPERAGE, VOLTAGE AND PHASE OF ALL EQUIPMENT WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING ANY EQUIPMENT.

EXHAUST FANS

EF-1 ROOF MOUNTED/BELT DRIVE/4,000 CFM @ .25" ESP/3/4 HP MOTOR/120V SINGLE PHASE/GREENHECK #GB-180/100 LBS.

UNIT HEATERS (ELECTRIC)

UH-1-5 17,000 BTUH/5.0 KW/6.0 AMPS @ 460V THREE PHASE/DAYTON #804T19/SUSPENDED FROM STRUCTURE/650 CFM/23 LBS/PROVIDE WITH LINE VOLTAGE THERMOSTAT.

UNIT HEATERS (GAS)

UH-6-21 REZNOR #UDXC/ NATURAL GAS/ 400,000 BTU INPUT/ 332,000 BTU OUTPUT/ 24" FAN DIAMETER/ PROPELLER TYPE/ 5123 CFM/ 1/2 HP/ 120V/ 60Hz/ 11.0FLA/ 20 MOP / 360 LBS/ 41"X49"

INTAKE VENT

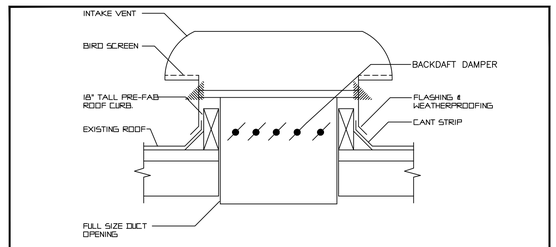
IV-1 UNITED METAL PRODUCTS #GV3030/4688 CFM @ 750 FPM/ROOF OPENING 30"x30"/ 120 LBS/PROVIDE COMPLETE WITH BARDMETRIC DAMPER AND 18" ROOF CURB

NOTES:
1. PROVIDE WITH BIRD SCREEN.
2. FREE AREA OF HOOD MUST BE EQUAL OR GREATER THAN FREE AREA OF THROAT .

PLUMBING FIXTURE SCHEDULE

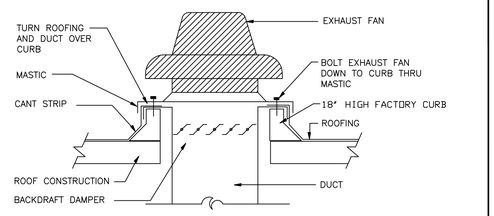
NOTE: ALL FIXTURES AND FINISHES SHALL BE APPROVED BY ARCHITECT & OWNER PRIOR TO ORDERING.

FS - FLOOR SINK	J. R. SMITH #3440 W/DOME STRAINER, 1/2 GRATE & TRAP GUARD
TG-TRAP GUARD SEAL	J. R. SMITH #2692 QUAD CLOSE TRAP SEAL
FCO-FLOOR CLEANOUT	J. R. SMITH #4103S HEAVY DUTY FLOOR CLEANOUT WITH NICKEL BRONZE THREADED CAP
FD - FLOOR DRAIN	J. R. SMITH #2010-A-U W/TRAP GUARD, NICKEL BRONZE SQUARE STRAINER
RD-ROOF DRAIN	J. R. SMITH #1010 W/ C. I. DOME STRAINER & FLASHING CLAMP & HEAT TAPE
OF-OVERFLOW DRAIN	SIMILAR TO RD EXCEPT W/ 2" DAM.
DNS-DOWNSPOUT NOZZLE	J. R. SMITH #1770-NB W/ NICKEL BRONZE FINISH.
HEAT TAPE	GRAINGER/ BRISKHEAT #HSTAT101010/ 720 WATT @ 120V SINGLE PHASE 10'-0" LONG LOCATED AT EACH ROOF DRAIN AND OVERFLOW.
HB-HOSE BIBB	RECESSED TYPE W/ LOCKING COVER/ J. R. SMITH #5560QT FREEZE PROOF TYPE W/ VACUUM BREAKER/ PROVIDE WITH STAINLESS STEEL ACCESS DOOR.



INTAKE VENT MOUNTING DETAIL

NTS



EXHAUST FAN MOUNTING DETAIL

NTS

PLUMBING NOTES

(ALL WORK DONE TO BE IN COMPLIANCE WITH 2021 IPC, IECC AND CURRENT CITY AMENDMENTS)

GENERAL
1) PLUMBING CONTRACTOR SHALL SEAL ALL PIPE PENETRATIONS ON RATED FLOOR, CEILING, WALL AND ROOF WITH U.L. LISTED MATERIALS.
2) PLUMBING CONTRACTOR TO VERIFY THAT THE FINISH FLOOR ELEVATION IS A MINIMUM OF 1' ABOVE THE TOP OF THE UPSTREAM MANHOLE PRIOR TO ANY CONSTRUCTION TO ENSURE THAT BACKWATER VALVES ARE NOT REQUIRED - NOTIFY ENGINEER IF REQUIRED.
3) BUILDINGS ARE SINGLE STORY.
4) CONTRACTOR SHALL VERIFY SCALE OF DRAWINGS WITH ARCHITECTURAL DRAWINGS BEFORE SUBMITTING ANY BID.

ABBREVIATIONS
1) FFE = FINISH FLOOR ELEVATION
2WCO = TWOWAYCLEAN OUT
SCO = SURFACE CLEAN OUT
FCO = FLOOR CLEAN OUT
INV = INVERT
CO = WALL CLEANOUT
VTR = VENT THRU ROOF
RD = ROOF DRAIN
RDL = ROOF DRAIN LEADER
OF = ROOF DRAIN OVERFLOW
OFL = ROOF DRAIN OVERFLOW LEADER
SOV = SHUT OFF VALVE

WASTE
1) DRAIN WASTE & VENT: IAPMO APPROVED ABS OR PVC PIPE AND FITTINGS.
2) SLOPE ALL SEWER 4" & LARGER @ 1% (1/8" PER FOOT).
3) EACH CLEAN OUT SHALL BE READILY ACCESSIBLE AND SD LOCATED AS TO SERVE ITS INTENDED PURPOSE.
4) OFFSET ALL PLUMBING VENTS MINIMUM 10'-0" AWAY FROM ANY OUTSIDE AIR INTAKES. REFER TO MECHANICAL DRAWINGS AND COORDINATE WITH MECHANICAL CONTRACTOR.
5) ALL VENT PIPING, WATER PIPING, ETC. PENETRATING ROOF SHALL BE PROPERLY FLASHED WITH MINIMUM 26 GAUGE GALVANIZED STEEL CAULKED TO PIPING AND EXTENDED 6" INTO ROOFING. COORDINATE WITH GENERAL CONTRACTOR & ROOFING SUB-CONTRACTOR.
6) ALL SURFACE CLEAN OUTS SHALL EXTEND TO GRADE.
7) PROVIDE VIDEO AND LETTER CERTIFYING CONDITION OF SEWER OUT TO STREET CONNECTION AND SHOWING NO OBSTRUCTIONS IN FLOW. VIDEO SHALL BE RECORDED AFTER COMPLETION OF SITE WORK.
8) TEST ALL WASTE PIPING PRIOR TO BACKFILL AND CONCEALMENT. CONTRACTOR SHALL CALL FOR INSPECTION AND WITNESS TESTING PRIOR TO CONCEALING WASTE PIPING.

GAS
1) GAS PIPING: STANDARD WEIGHT STEEL WITH THREADED JOINTS ABOVE GRADE, BLACK PIPE INDOORS, GALVANIZED OUTDOORS.
2) ALL OUTDOOR METALLIC GAS PIPING TO BE WRAPPED IN POLYCON TAPE WITH HALF (1/2) LAP.

WATER
1) POTABLE WATER: TYPE 'L' HARD COPPER ABOVE SLAB, TYPE 'L' SOFT COPPER BELOW SLAB WITH LEAD FREE SILVER SOLDER. EXCEPTION: IAPMO APPROVED PVC MAY BE UTILIZED FOR BURIED COLD WATER LINES, OUTSIDE STRUCTURE, IN ACCORDANCE WITH IAPMO INSTALLATION STANDARDS.
2) WATER DISTRIBUTION PIPE SHALL CONFORM TO NSF 61 AND SHALL BE A LISTED STANDARD IN IPC TABLE 605.5
4) INSULATE ALL COLD WATER (105°F-140°F) PIPING AS FOLLOWS:

NOMINAL PIPE SIZE	INSULATION THICKNESS
1/2" TO 1-1/4"	1"
1-1/2" TO 3"	1-1/2"

5) PIPING INSULATION FOR 105-140° FAHRENHEIT SHALL HAVE A CONDUCTIVITY OF 0.21-0.27 BTU PER INCH/HR° FT2° FAHRENHEIT).
6) UNDERGROUND WATER PIPING SHALL BE MIN. 12" BELOW AVERAGE LOCAL FROST DEPTH.
7) TEST ALL WATER PIPING PRIOR TO BACKFILL AND CONCEALMENT. CONTRACTOR SHALL CALL FOR INSPECTION AND WITNESS TESTING PRIOR TO CONCEALING WATER PIPING.
8) ALL HOSE BIBBS (HB) ARE 3/4"FREEZE PROOF TYPE W/VACUUM BREAKER COMPLETE W/LOOSE KEY HANDLES.

ROOF DRAINS
1) RAIN WATER: IPC APPROVED ABS OR PVC PIPE AND FITTINGS, CAST IRON, STANDARD WEIGHT MECHANICAL JOINT SHALL BE USED WITHIN RETURN AIR PLENUM.
2) THE OVERFLOW DRAIN SHALL BE PROVIDED WITH A STRAINER AND SHALL BE 2" ABOVE ADJACENT ROOF DRAIN.
3) THE OVERFLOW SYSTEM MAY NOT JOIN THE PRIMARY ROOF DRAIN SYSTEM
4) ROOF DRAIN ASSEMBLY SHALL BE CAST IRON INCLUDING DOME STRAINER.
5) PROVIDE APPROVED EXPANSION JOINTS AS REQUIRED.
6) INSULATE ALL ROOF DRAIN AND OVERFLOW DRAIN PIPING WITH 1" INSULATION.

MECHANICAL NOTES

(ALL WORK DONE TO BE IN COMPLIANCE WITH 2021 INTERNATIONAL MECHANICAL CODE, 2021 IECC AND LOCAL AMENDMENTS).

GENERAL
1) BUILDINGS ARE SINGLE STORY.
2) FURNISH ALL LABOR, MATERIALS, TOOLS EQUIPMENT, FEES, PERMITS, CERTIFICATE OF INSPECTION, ETC. NECESSARY OR REASONABLY REQUIRED FOR THE COMPLETE INSTALLATION OF ALL AIR CONDITIONING WORK. THE WORK SHALL BE IN STRICT ACCORDANCE WITH THE ASHRAE GUIDE, AND ALL LOCAL AND STATE CODES, ORDINANCES AND REGULATIONS.
3) COORDINATE ALL MECHANICAL WORK WITH ARCHITECT AND OTHER TRADES PRIOR TO WORK.
4) EXHAUST DUCTS MUST TERMINATE 10 FEET HORIZONTALLY FROM OR 3 FEET ABOVE ALL AIR INTAKES.
5) SUBMITTALS SHALL BE PROVIDED FOR ALL MECHANICAL EQUIPMENT. ALL DATA SHALL BE IN A NEAT BOUND FOLDER OR RING BINDERS, CLEARLY MARKED FOR THE SPECIFIC EQUIPMENT TO BE PROVIDED, AND CONTAINING ALL DATA REQUIRED FOR THE PROJECT INCLUDING ALL ELECTRICAL INFORMATION (i.e. VOLTAGE, AMPS, PHASE, HORSEPOWER.) A MINIMUM OF THREE (3) COPIES SHALL BE PROVIDED.
6) CONTRACTOR SHALL VERIFY SCALE OF DRAWINGS WITH ARCHITECTURAL DRAWINGS BEFORE SUBMITTING ANY BID.

EQUIPMENT
1) MECHANICAL CONTRACTOR TO VERIFY AND COORDINATE AVAILABLE VOLTAGE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.
2) ALL MECHANICAL EQUIPMENT LOCATION TO COMPLY WITH THE 2021 I.M.C.
3) ALL HVAC EQUIPMENT (EXHAUST FANS, HEATERS, ETC.) SHALL BE U.L. LISTED.
4) CONTRACTOR SHALL MOUNT ALL MECHANICAL EQUIPMENT LEVEL IN CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS, MAINTAINING ALL MINIMUM RECOMMENDED CLEARANCES.

DUCTWORK
1) ALL DUCTS SHALL BE GALVANIZED SHEET METAL. ALL NEW DUCTWORK TO BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHRAE GUIDELINES, THE LATEST SMACNA STANDARDS, THE 2021 I.E.C.C. AND CHAPTER 6 OF THE 2021 INTERNATIONAL MECHANICAL CODE FOR LOW PRESSURE DESIGN.
2) MECHANICAL CONTRACTOR SHALL VERIFY THAT ALL DUCTWORK WILL FIT WHERE INDICATED WITHOUT INTERFERENCES.
3) DUCTS SHALL CONFORM TO DIMENSIONS ON THE DRAWINGS UNLESS LOCATION OF STRUCTURAL MEMBERS PROHIBIT. IN CASE OF A CHANGE IN DIMENSIONS, CROSS SECTIONAL AREAS SHALL BE MAINTAINED.
4) ALL DUCTS SHALL BE SUBSTANTIALLY SUPPORTED WITH HANGERS TO THE STRUCTURE. PLACING SUPPORTS NOT OVER 8 FEET APART ALONG THE LENGTH OF THE DUCT. SHEET METAL SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:
UP TO 12" WIDTH 26 GAUGE STEEL
13" TO 30" WIDTH 24 GAUGE STEEL
5) EXHAUST DUCTS SHALL BE MINIMUM 26 GAUGE GALVANIZED STEEL - SEE MECH EQUIPMENT SCHEDULE OR FLOOR PLAN FOR SIZE & TERMINATION POINT.
6) ALL "FACTORY MADE" DUCT MUST BE CLASS '0" OR CLASS '1".
7) DUCT SIZES SHOWN ARE "CLEAR INSIDE" DIMENSIONS.
8) ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK, SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLU-EMBEDD-FABRIC SYSTEMS OR TAPES. TAPES AND MASTICS USED TO SEAL DUCTWORK SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A AND SHALL BE MARKED 181A-P FOR PRESSURE SENSITIVE TAPE. TAPES AND MASTICS USED TO SEAL FLEXIBLE AIR AIR DUCT AND FLEXIBLE CONNECTORS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED 181B-FX FOR PRESSURE SENSITIVE TAPE OR 181M FOR MASTIC. DUCT CONNECTION TO FLANGES OF AIR DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED. UNLISTED DUCT TAPE IS NOT PERMITTED AS SEALANT ON ANY METAL DUCTS.

TESTING
1) TEST AND BALANCE ALL AIR SYSTEMS PER AABC OR NEBB LATEST STANDARDS. SUBMIT REPORT TO ENGINEER WITHIN 10 DAYS OF COMPLETING TEST AND BALANCE.
2) COPY OF THE AIR BALANCE REPORT SHALL BE PROVIDED TO THE MECHANICAL INSPECTOR FOR FINAL APPROVAL. REPORT SHALL BE SEALED AND WET SIGNED.

DLR GROUP
© DLR Group

PROFESSIONAL ENGINEER
Matt Moertl
No. 7886810-2202
MATTHEW MOERTL
STATE OF UTAH
02/27/2026

Notice of Extended Payment Provision
This contract allows the owner to make payment within 16 days after certification and approval of billings and estimates for progress payments, within 16 days after certification and approval of billings and estimates for release of retention and within 16 days after certification and approval of billings and estimates for final payment.

7800 LOGISTICS W. JORDAN
GO INDUSTRIAL
4501 W 7800 S.
WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/27/26
REVISIONS

29-26101-00

MECH./PLBG. NOTES AND SCHEDULES

MP3.1

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Consulting Engineers
Phone (602) 943-6608
Web: MechDesigns.com

THE CONCEPTS AND DESIGNS SHOWN HEREON AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF MECHANICAL DESIGNS INC. THEY ARE NOT TO BE USED IN WHOLE OR PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF MECHANICAL DESIGNS INC.

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ELECTRICAL SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS MAY NOT BE USED FOR THIS PROJECT.

A. GENERAL

- JUNCTION BOX (4" SQUARE MINIMUM)
- INDICATES HOMERUN.
- CIRCUIT CONDUCTORS. LONG DASH INDICATES NEUTRAL CONDUCTOR, SHORT DASH INDICATES PHASE CONDUCTORS. CODE SIZED EQUIPMENT GROUND NOT INDICATED BUT REQUIRED.
- ISOLATED GROUNDING CONDUCTOR. GREEN, INSULATED WITH YELLOW STRIPE.
- GROUNDING CONDUCTOR. GREEN, INSULATED, SIZE PER PLAN.
- SURFACE PANELBOARD
- FLUSH PANELBOARD
- TRANSFORMER. (KVA SIZE AS NOTED). GROUNDING SYSTEM TO BUILDING STEEL (IF APPLICABLE).
- CONDUIT STUB-UP ABOVE CEILING
- CONDUIT STUB-DOWN TO FLOOR BELOW
- CONDUIT IN UNDERGROUND/SLAB
- CONDUIT STUB-UP WITH CAP
- CONDUIT SEAL-OFF
- FLEXIBLE CONDUIT. PROVIDE LIQUID TIGHT FLEX IN WET OR EXTERIOR LOCATIONS AND AT CONNECTIONS TO VIBRATING EQUIPMENT AND/OR TRANSFORMERS.
- CONDUIT CONCEALED IN WALLS OR ABOVE CEILING.

B. POWER

- 20A SPEC GRADE SINGLE RECEPTACLE MOUNTED AT +15" TO BOTTOM OR AS NOTED
- 20A SPEC GRADE DUPLEX RECEPTACLE MOUNTED AT +15" TO BOTTOM OR AS NOTED
- 20A SPEC GRADE FOURPLEX RECEPTACLE MOUNTED AT +15" TO BOTTOM OR AS NOTED
- 20A SPEC GRADE DUPLEX CONVENIENCE OUTLET MOUNTED ABOVE COUNTER. VERIFY EXACT HEIGHT WITH ARCHITECTURAL ELEVATIONS.
- 20A SPEC GRADE FOURPLEX CONVENIENCE OUTLET MOUNTED ABOVE COUNTER. VERIFY EXACT HEIGHT WITH ARCHITECTURAL ELEVATIONS.
- SPECIAL OUTLET AS NOTED ON DRAWINGS – VERIFY NEMA RATING BEFORE INSTALLATION
- SPECIAL OUTLET AS NOTED ON DRAWINGS

  X =

C – MOUNTED IN CEILING	RF – REFRIGERATOR
DW – DISHWASHER	SD – SINK DISPOSAL. PROVIDE SWITCH ABOVE COUNTER.
MW – MICROWAVE	UCR – UNDERCOUNTER REFRIGERATOR
P – PEDISTAL MOUNTED	VM – VENDING MACHINE
PD – PEDIATRIC SAFE	

- ISOLATED GROUNDING OUTLET AT +15" TO BOTTOM OR AS NOTED. "LEVITON" #5362-IG (ORANGE) RECEPTACLE WITH ISOLATED GROUND.
- 20A SPEC GRADE HALF SWITCHED DUPLEX RECEPTACLE AT +15" TO BOTTOM OR AS NOTED.
- DUAL COMPARTMENT POWER/TELE DATA POLE
- FLUSH FLOOR POWER OUTLET WITH FLUSH-IN-USE COVERS – WITH 20A SPEC GRADE RECEPTACLES DUPLEX OR FOURPLEX. HUBBELL, THOMAS & BETTS, CARLON OR EQUAL. RATED FOR SCRUB WATER.
- 20A SPEC GRADE GFCI DUPLEX RECEPTACLE AT +15" TO BOTTOM OR AS NOTED.
- 20A SPEC GRADE GFCI DUPLEX RECEPTACLE AT +6" ABOVE COUNTER TO BOTTOM OR AS NOTED.
- DROP CORD POWER OUTLET – WITH 20A SPEC GRADE RECEPTACLES DUPLEX OR FOURPLEX. HUBBELL, THOMAS & BETTS, CARLON OR EQUAL.
- "J" BOX FLUSH MOUNTED IN WALL FOR SYSTEMS FURNITURE POWER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH SUPPLIER PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FINAL CONNECTION TO SYSTEM FURNITURE.
- WIRE MOLD. LENGTH AND TYPE AS NOTED ON DRAWINGS. MOUNT AS NOTED ON THE DRAWINGS.

C. COMMUNICATIONS

- FLUSH FLOOR COMBINATION TELEPHONE/DATA OUTLET – PROVIDE 1" MIN CONDUIT TO ABOVE ACCESSIBLE CEILING. HUBBELL, THOMAS & BETTS, CARLON OR EQUAL. RATED FOR SCRUB WATER.
- DATA OUTLET AT +15" A.F.F. TO BOTTOM OF WALL FIXTURE OR AS NOTED. PROVIDE 3/4" CONDUIT STUBBED TO +4" ABOVE FINISHED CEILING.
- TELEPHONE OUTLET AT +15" A.F.F. TO BOTTOM OF WALL FIXTURES OR AS NOTED. PROVIDE 3/4" CONDUIT STUBBED TO +4" ABOVE FINISHED CEILING OR AS NOTED:

  X=
  P – PAY PHONE
  W – WALL PHONE OUTLET MOUNTED AT +44" A.F.F.
- COMBINATION TELEPHONE/DATA OUTLET AT +15" A.F.F. TO BOTTOM OF WALL FIXTURES OR AS NOTED. PROVIDE 3/4"C. STUBBED TO +4" ABOVE FINISHED CEILING.
- DIGITAL CABLE TELEVISION OUTLET
- TELEVISION OUTLET WITH DEVICES
- "J" BOX FLUSH MOUNTED IN WALL FOR SYSTEMS FURNITURE TELE/DATA WITH 1-1/4" EMPTY CONDUIT STUBBED ABOVE CEILING. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH SUPPLIER PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FINAL CONNECTION TO SYSTEM FURNITURE.
- TELEPHONE TERMINAL BOARD "TMB". 3/4" PLYWOOD TELEPHONE MOUNTING BOARD WITH #6 COPPER GROUND & DEDICATED FOURPLEX CONVENIENCE OUTLET. FURNISH IN ACCORDANCE WITH TELEPHONE COMPANY'S REQUIREMENTS. SIZE AS NOTED ON DRAWINGS. PLYWOOD SHALL BE TYPE "CDX".

D. LIGHTING

- STANDARD SWITCH AND COVER PLATE WITH LOCKING DEVICE (BRADY NO. 2AF98 OR EQUAL)
- SINGLE POLE SWITCH MOUNTED AT +44" TO CENTER OF DEVICE OR AS NOTED.
- TWO POLE SWITCH MOUNTED AT +44" TO CENTER OF DEVICE OR AS NOTED.
- THREE WAY SWITCH MOUNTED AT +44" TO CENTER OF DEVICE OR AS NOTED.
- FOUR WAY SWITCH MOUNTED AT +44" TO CENTER OF DEVICE OR AS NOTED.
- SINGLE POLE SWITCH WITH PILOT LIGHT AT +44" TO CENTER OF DEVICE OR AS NOTED.
- 2000W SLIDE CONTROL DIMMER AT AT +44" TO CENTER OF DEVICE OR AS NOTED.
- SWITCH KEY OPERATED MTD AT +44" TO CENTER OF DEVICE OR AS NOTED.
- LOW VOLTAGE SLIDE CONTROL DIMMER WITH PRESET AT +44". CONTRACTOR SHALL SUPPLY SPECIFIC (ELECTRONIC AND/OR MAGNETIC) TO SUIT LOADS.
- WALL MOUNTED OCCUPANCY SENSOR. LUTRON-DUAL TECHNOLOGY OR EQUAL. IN RESTROOMS: LUTRON-ULTRASONIC. PROGRAM: MANUAL ON/AUTO OFF UNLESS NOTED OTHERWISE.
- SINGLE POLE UP-OFF-DOWN SWITCH FOR CONTROL OF PROJECTION SCREEN. MOUNTED AT +44" TO CENTER OF DEVICE OR AS NOTED.
- LOW VOLTAGE PUSH BUTTON CONTROL STATION AS NOTED. VERIFY MOUNTING HEIGHT.
- ROOF MOUNTED PHOTOCELL (AIM NORTH) INTERMATIC #EK4136S OR EQUAL.
- ASTRONOMIC ELECTRONIC 4 POLE LIGHTING TIMESWITCH, INTERMATIC #ET2845CR OR EQUAL.
- CEILING MOUNTED OCCUPANCY SENSOR 360°. LUTRON-DUAL TECHNOLOGY OR EQUAL. IN RESTROOMS: LUTRON-ULTRASONIC. IN WAREHOUSE: LUTRON-HIGHBAY. (WR) WIDE ANGLE (LR) LONG RANGE.
- WALL/CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SHALL BE PROGRAMMED AS VACANCY SENSOR. MANUAL ON/AUTO OFF.
- OCCUPANCY SENSOR – POWER PACK OR SLAVE PACK.
- LED STRIP LIGHTING FIXTURE – AS NOTED ON DRAWINGS.
- LED LIGHTING FIXTURE – AS NOTED ON DRAWINGS SURFACE MOUNTED.
- RECESSED GRID W/FLEXIBLE CONNECTION.
- INDICATES NIGHTLIGHT (NL) AND/OR EMERGENCY FIXTURE WITH 1400 LUMEN MINIMUM (UNSWITCHED) – AS NOTED ON DRAWING.
- WALL MOUNTED LIGHTING FIXTURE – AS NOTED ON DRAWINGS.
- CEILING MOUNTED LIGHTING FIXTURE – AS NOTE ON DRAWINGS.
- LED HIGH/LOW BAY FIXTURE
- WALL WASH LIGHTING FIXTURE. AIM AS DIRECTED BY ARCHITECT.
- TRACK LIGHTING SYSTEM WITH TRACK FIXTURE HEADS AS INDICATED ON PLANS. VERIFY TYPE LINE OR LOW VOLTAGE.
- POLE MOUNTED AREA LIGHT (ARM MOUNTED) VERIFY HEIGHT SEE POLE DETAIL.
- POLE MOUNTED AREA LIGHT (POST TOP) VERIFY HEIGHT SEE POLE DETAIL.
- WALL PACK.
- SINGLE FACE EXIT SIGN, SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATION. DIRECTIONAL ARROW AS INDICATED ON PLANS (CEILING OR WALL.)
- COMBINATION EMERGENCY EXIT SIGN WITH DUAL HEAD LIGHTS WITH EMERGENCY BATTERY BACK-UP.

D. LIGHTING CONTINUED

- DOUBLE FACE EXIT SIGN. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATION. DIRECTIONAL ARROW AS INDICATED ON PLANS (CEILING OR WALL)
- DUAL HEAD EMERGENCY BATTERY PACK, SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATIONS.

E. MECHANICAL

- CONTACTOR – FURNISHED AND INSTALL BY OTHERS
- CONTACTOR – FURNISHED/INSTALLED BY ELECTRICAL CONTRACTOR SIZE AS NOTED
- MOTOR STARTER/CONTROLLER– FURNISHED WITH MOTOR.
- MOTOR STARTER/CONTROLLER – FURNISHED/INSTALLED BY ELECTRICAL CONTRACTOR.
- MOTOR – SIZE AS INDICATED ON DRAWINGS.
- DISCONNECT SWITCH – SIZE AND FUSES AS PER MANUFACTURER'S RECOMMENDATIONS (WEATHERPROOF WHERE OUTSIDE). N.F. INDICATES NON-FUSED.
- COMBINATION FUSIBLE DISCONNECT/MOTOR CONTROLLER – 30/3P WITH MIN. SIZE 1 MAGNETIC STARTER (UNLESS NOTED OTHERWISE). PROVIDE FUSES PER MANUFACTURER'S REQUIREMENTS. N.F. INDICATES NON-FUSED.
- HORSEPOWER RATED MANUAL MOTOR STARTER WITH THERMAL OVERLOAD(S). OVERLOAD HEATERS TO BE SIZED PER HORSEPOWER AND MANUFACTURER'S REQUIREMENTS.

F. FIRE ALARM

- FIRE ALARM PULL STATION AT +48".
- FIRE ALARM STROBE: +80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER.
- FIRE ALARM HORN/STROBE: +80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER.
- FIRE ALARM MAGNETIC DOOR HOLDER
- FIRE ALARM BELL
- FAAP – FIRE ALARM ANNUNCIATOR PANEL
- FACP – FIRE ALARM CONTROL PANEL
- FIRE ALARM HEAT DETECTOR.
- FIRE ALARM SMOKE DETECTOR.
- FIRE ALARM DUCT SMOKE DETECTOR.
- CARBON MONOXIDE DETECTOR.
- FIRE ALARM TAMPER SWITCH.
- FIRE ALARM FLOW SWITCH.
- SPEAKER.

G. ONE LINE DIAGRAM

- (M) METER, (S) SOCKET, (B) BLANK
- (M) METER, (S) SOCKET, (B) BLANK, WITH CURRENT TRANSFORMERS.
- BREAKER AS INDICATED.
- FUSED SWITCH.
- BREAKER WITH SHUNT TRIP (SIZE AS INDICATED)
- PULLOUT FUSE

H. SECURITY

- LOW VOLTAGE CARD READER WITH 3/4" EMPTY CONDUIT STUBBED INTO ACCESSABLE CEILING SPACE
- LOW VOLTAGE KEYPAD
- SURVEILLANCE CAMERA

I. ABBREVIATIONS

A	AMPERE
AIC	AVAILABLE INTERRUPTING CURRENT
AI	ALUMINUM
AFC	AVAILABLE FAULT CURRENT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AH	AIR HANDLER UNIT
APS	ARIZONA PUBLIC SERVICE – (UTILITY CO.)
C	CONDUIT
CCT	CORRECTED COLOR TEMP.
CRI	COLOR RENDERING INDEX
CU	COPPER
D	DEDICATED
DP	DUST – IGNITION PROOF
E	EXISTING
EC	EMPTY CONDUIT
EDF	ELECTRIC DRINKING FOUNTAIN
EF	EXHAUST FAN
EG	EQUIPMENT GROUND
EM	EMERGENCY LIGHT. BYPASS LOCAL SWITCHING AND PROVIDED BATTERY PACK.
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GND	GROUND/BOND CONDUCTOR
GWH	GAS WATER HEATER
IAW	IN ACCORDANCE WITH
IG	ISOLATED GROUND
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUG ONLY
N	NEW ITEM
NR	NEW LOCATION OF RELOCATED EXISTING ITEM
NL	NIGHT LIGHT. BYPASS LOCAL SWITCHING.
PNL	PANELBOARD
R	EXISTING TO BE RELOCATED
SES	SERVICE ENTRANCE SECTION
SRP	SALT RIVER PROJECT – (UTILITY CO.)
SWBD	SWITCHBOARD
TEP	TUCSON ELECTRONIC POWER
TMB	3/4" PLYWOOD TELEPHONE MOUNTING BOARD WITH #6 CU. SOLID GROUND.
TTC	TELEPHONE TERMINAL CABINET (SIZE INDICATED ON DRAWINGS)
UFER	CONCRETE ENCASED ELECTRODE
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
VA	VOLT AMPERES
W	WATT
WG	WIRE GUARD
WH	WATER HEATER
WP	WEATHERPROOF (RAIN TIGHT) WEATHER RESISTANT NEMA 3R OR NEMA 4 IN-USE
WR	WEATHER RESISTANT
X	EXISTING TO BE REMOVED
XP	EXPLOSION PROOF

ELECTRICAL SPECIFICATIONS

SOME SPECIFICATIONS MAY NOT BE USED FOR THIS PROJECT.

UPDATED: 09-09-2014

1.0 INTENT

1.1 FURNISH AND INSTALL A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

1.2 ALL DRAWINGS ARE SCHEMATIC IN NATURE AND THE REQUIRED INSTALLATION IS NOT LIMITED TO WHAT IS SHOWN. ALL APPURTENANCES NECESSARY TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM MUST BE INCLUDED IN THE CONTRACTORS BID AND WORK.

2.0 GENERAL

2.1 THE CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS WHICH MAY AFFECT HIS BID OR WORK. NO ALLOWANCES WILL BE MADE FOR EXISTING CONDITIONS OR THE CONTRACTORS FAILURE TO ACCOMMODATE EXISTING CONDITIONS ON HIS BID.

2.2 IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN CLARIFICATION OF ANY APPARENT CONFLICT OR INCONSISTENCY IN THE DRAWINGS, SPECIFICATION, OR DESIGN, PRIOR TO HIS BID AND IN WRITING WITH THE ENGINEER. OTHERWISE THE CONTRACTOR ACCEPTS RESPONSIBILITY TO CORRECT (AT HIS COST) ANY SUCH ITEMS TO MEET THE INTENT AS INTERPRETED BY THE ENGINEER.

2.3 ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE MOST RECENT ADOPTED EDITIONS OF THE NFPA, NATIONAL ELECTRIC CODE, IBC, APPLICABLE CITY AND STATE CODES AND ORDINANCES, THE AMERICANS WITH DISABILITIES ACT, E.P.A. REGULATIONS (INCLUDING EPACT 1992), INTERNATIONAL ENERGY CONSERVATION CODE (IECC)/TITLE 24/ASHRAE 90.1 AND UTILITY COMPANY REQUIREMENTS. THE FOREGOING CODES AND REGULATIONS ARE REQUIREMENTS AND ARE INCORPORATED IN THIS SPECIFICATION FOR THIS WORK BY REFERENCE.

2.4 THE CONTRACTOR SHALL COORDINATE AND PROVIDE INFORMATION AS REQUIRED TO ALL SERVING UTILITIES IN A TIMELY MANNER AS NECESSARY TO PROVIDE THE SERVICE REQUIRED AND MEET UTILITY REQUIREMENTS. IMMEDIATE COORDINATION WILL BE REQUIRED FOR MOST PROJECTS. FIELD COORDINATE ALL REQUIREMENTS WITH UTILITY Co. PRIOR TO TRENCHING.

2.5 REFER TO ARCHITECTURAL, MECHANICAL, CIVIL, STRUCTURAL, AND/OR EQUIPMENT SUPPLIERS DRAWINGS AND SPECIFICATIONS FOR EXACT EQUIPMENT LOCATIONS, LOADS AND ADDITIONAL REQUIREMENTS. REPRESENTATIONS OF THE WORK SPECIFIC TO THE OTHER DISCIPLINES IS SHOWN ON THE ELECTRICAL DRAWINGS FOR CLARITY ONLY.

2.6 THE CONTRACTOR ASSUMES RESPONSIBILITY FOR ALL EQUIPMENT HE SUPPLIES. ALL EQUIPMENT SHALL BE INSTALLED STRICTLY PER MANUFACTURERS RECOMMENDATIONS. OTHERWISE THE CONTRACTOR ASSUMES RESPONSIBILITY (AT HIS COST) TO CORRECT AND REMEDY ANY INSTALLATION NOT IN COMPLIANCE WITH THE MANUFACTURES RECOMMENDATIONS AND INTENTIONS AS INTERPRETED BY THE ENGINEER.

2.7 ANY VARIANCE OR EXCEPTIONS TO THE DRAWINGS AND SPECIFICATIONS MUST BE REQUESTED AND APPROVED IN WRITING. INTERIM VERBAL APPROVALS WILL ONLY BE PROVIDED WHEN THE ENGINEER DETERMINES THIS TO BE JUSTIFIED AND MUST BE CONFIRMED IN WRITING TO BE FINAL.

2.8 THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS, VARIANCES, AND APPROVALS, ETC. (AT HIS COST) WHICH MAY BE REQUIRED FOR COMPLETION OF THIS WORK.

2.9 PRIOR TO ROUGH-IN, THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL LIGHT FIXTURES AND WIRING DEVICES: TO INCLUDE MOUNTING HEIGHT AND LOCATIONS WITH ARCHITECT/OWNER. ALL CONFLICTS SHALL BE REPORTED TO THE ENGINEER/ARCHITECT.

2.10 THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT AND SUPPORT FOR PROGRESS AND FINAL INSPECTIONS. THIS INCLUDES COMPLETE ACCESS TO ALL EQUIPMENT. ADDITIONALLY A COMPLETE SET OF SPARE FUSES FOR ALL FUSES USED AND A 5% SUPPLY OF ALL LIGHT BULBS PROVIDED IN FIXTURES (TO A MAXIMUM OF 15 FOR EACH STYLE) SHALL BE PROVIDED TO THE OWNER AT FINAL INSPECTION.

2.11 RECONSTRUCTION (TO INCLUDE TENANT IMPROVEMENTS). ALL RECONSTRUCTION OF EXISTING FACILITIES AND EQUIPMENT SHALL REQUIRE COMPLETE RENOVATION (MAKE GOOD AS NEW) FOR ALL EXISTING EQUIPMENT UPON WHICH WORK IS PERFORMED OR EQUIPMENT WHICH IS AFFECTED BY THE WORK PERFORMED. THIS WILL INCLUDE THESE FOLLOWING REQUIREMENTS:
2.11.1 VERIFICATION OF EXISTING SES COMPLIANCE WITH NEC "GROUNDING" ARTICLES.
2.11.2 VERIFICATION OF CABLE SIZE AND AMPACITY OF EXISTING FEEDERS AND BRANCH CIRCUITS WITH NEC TABLES.
2.11.3 EXISTING LIGHT FIXTURES TO BE REUSED MUST BE CLEANED, RE-LAMPED, AND RESTORED TO "LIKE NEW" CONDITION.
2.11.4 EXISTING PANEL BOARDS, SWITCH BOARDS, AND TRANSFORMERS WHICH ARE INCLUDED IN THE PROJECT WORK SHALL HAVE PREVENTATIVE MAINTENANCE PERFORMED TO INCLUDE RE-TORQUING OF ALL LUGS, CLEANING AND INSPECTION.
2.11.5 VERIFY PROPER WORKING CONDITION OF ALL EXISTING EMERGENCY FIXTURES AND EXIT SIGNS. REPAIR OR REPLACE AS REQUIRED.

IN THE EVENT THAT INSPECTION REVEALS DISCREPANCIES AND/OR NONCOMPLIANCE THE OWNER AND THE ENGINEER SHALL BE NOTIFIED IN WRITING, AND EQUIPMENT BROUGHT INTO COMPLIANCE.

3.0 MATERIALS AND METHODS

3.1 THE USE OF **EMT** IS ACCEPTABLE IN ACCORDANCE WITH NEC ARTICLE "ELECTRICAL METALLIC TUBING". EMT SHALL NOT BE USED WHERE IT IS SUBJECT TO SEVERE PHYSICAL DAMAGE. EMT FITTINGS SHALL BE COMPRESSION TYPE. MINIMUM TRADE CONDUIT SIZE IS 1/2" AND 3/4" FOR HOME RUNS.

3.2 **CONDUCTORS** SHALL BE 600V COPPER (98 % CONDUCTIVITY). MINIMUM LINE VOLTAGE WIRE SIZE IS #12 A.W.G. #6 AND SMALLER SHALL HAVE THHN/THHW INSULATION. #4 AND LARGER SHALL HAVE XHHW/XHHW-2 INSULATION. ALL CONDUCTORS SHALL HAVE 90° RATED INSULATION. ALL 120V, 20A BRANCH CIRCUIT CONDUCTORS (#12) OVER 100' IN LENGTH TO BE #10'S MINIMUM. ALL 277V, 20A BRANCH CIRCUIT CONDUCTORS (#12) OVER 200' IN LENGTH TO BE #10'S MINIMUM.

3.3 WHEN SEPARATE BRANCH CIRCUIT NEUTRAL CONDUCTORS ARE USED WITH EACH PHASE CONDUCTOR OR SYSTEMS FURNITURE IS INDICATED, THE MINIMUM NEUTRAL CONDUCTOR SIZE SHALL BE #10 A.W.G. STRANDED COPPER.

3.4 ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE. (MINIMUM 20 AMPS RATED FOR RECEPTACLES AND SWITCHES). HUBBELL, PASS & SEYMOUR, BRYANT, OR LEVITON ARE ACCEPTABLE. ALL SPECIAL RECEPTACLES AND GROUND FAULT PROTECTION DEVICES MUST BE PERMANENTLY MARKED WITH ENGRAVED COVER PLATES. INDICATE USE AND CIRCUIT NUMBER.

3.5 COVER PLATES AND DEVICES SHALL BE PHENOLIC PLASTIC (WHITE OR COLOR SELECTED BY ARCHITECT) IN OFFICE/COMMERCIAL/OR LIVING AREAS, AND GALVANIZED STEEL IN WAREHOUSE/INDUSTRIAL/MANUFACTURING AREAS OR AREAS SUBJECT TO PHYSICAL ABUSE.

3.6 ALL CONDUCTORS TO BE CONCEALED EXCEPT TO SURFACE MOUNTED PANELS AND AT THE CEILING OF EXPOSED STRUCTURE AREAS. CONDUITS WILL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES.

3.7 FLEXIBLE METAL CONDUIT (SEAL TITE FOR EXTERIOR APPLICATIONS) SHALL BE USED FOR CONNECTIONS TO EQUIPMENT SUBJECT TO VIBRATION (E.G. MOTORS) WITH A MAX. OF 6ft.

3.8 THE USE OF **MC CABLE** IS ACCEPTABLE (UPON OWNER NOTIFICATION AND APPROVAL) AND MAY BE USED IN ACCORDANCE WITH NEC ARTICLE "METAL-CLAD CABLE: TYPE MC", BUT LIMITED TO USE FOR CONCEALED BRANCH CIRCUITS ONLY, ADDITIONALLY MC CABLE MAY NOT BE USED FOR HOME RUNS OR OUTDOORS.

3.9 NON-METALLIC CONDUIT (MIN. SCHEDULE 40) MAY BE USED ONLY IN OR UNDER SLABS & IN CONCRETE OR MASONRY WALLS. MIN. 24" COVER REQUIRED FOR UNDERGROUND USE.

3.10 **FUSES** SHALL BE BUSSMAN, LITTLEFUSE, OR GOULD SHAWMUT.

3.11 CONDUCTORS WILL BE SOLID AND/OR STRANDED WITH INSULATION CONTINUOUSLY COLOR COATED UP TO AND INCLUDING SIZE #6 A.W.G. GROUNDING/BONDING CONDUCTORS SHALL BE U.L. LABELED ROPE STRAND.

3.12 CONNECTIONS OR SPLICES SHALL BE EXOTHERMIC WELD (CAD WELD OR THOMAS AND BETTS FURSEWELD) FOR GROUNDING/BONDING CONDUCTORS.

3.13 NEW CONDUCTORS SHALL BE CONTINUOUS. HYDRAULIC CRIMP SPLICES OR CONNECTIONS ARE EXCEPTIONS AND REQUIRE SPECIFIC APPROVAL IN WRITING BY HAWKINS DESIGN GROUP.

3.14 ALL CONDUIT SUPPORT SYSTEMS SHALL BE INSTALLED ON THE BUILDING STRUCTURE. UNISTRUT, BEELINE, SUPERSTRUT STEEL CITY SPRING STEEL FASTENERS OR CADDY MOUNTING SYSTEMS ARE ACCEPTABLE. NO CONDUIT WILL BE SUPPORTED BY THE CEILING WIRES, TIE WIRE OR GRID SYSTEM. PERFORATED STRAPS OR OTHER PIPING AND CONDUIT STRAPS ARE NOT ACCEPTABLE SUPPORTS.

3.15 ACCEPTABLE MANUFACTURES FOR **SWITCH GEAR, DISTRIBUTION GEAR** AND RELATED COMPONENTS ARE: SQUARE D, ACME TRANSFORMERS, GENERAL ELECTRIC, SIEMENS, HPS, AND CUTLER-HAMMER.

3.16 CONDUCTORS SHALL BE COLOR CODED FOR BRANCH CIRCUITS AND PHASE LEGS OF FEEDERS TO PANEL BOARDS, SWITCHBOARDS, ETC. IN ACCORDANCE WITH NEC AND LOCAL MUNICIPAL REQUIREMENTS. SPECIFIC REQUIREMENTS INCLUDE THE FOLLOWING.
- 120-V, 2-WIRE CIRCUIT: GROUNDED NEUTRAL-WHITE; UNGROUNDED LEG-BLACK.
- 208Y/120-V, 3-PHASE, 4-WIRE: GROUNDED NEUTRAL-WHITE; PHASE A-BLACK; PHASE B-RED; PHASE C-BLUE.
- 240/120-V, 3 WIRE, SINGLE PHASE CIRCUIT: GROUNDED NEUTRAL-WHITE; PHASE A-BLACK; PHASE B-RED.
- 240-V, DELTA, 3-PHASE, 3-WIRE: PHASE A-BLACK; PHASE B-RED; PHASE C-BLUE.
- 240/120-V, 3-PHASE, 4-WIRE, HIGH-LEG DELTA: GROUNDED NEUTRAL-WHITE; HIGH LEG (208-V TO NEUTRAL)-ORANGE; PHASE A-BLACK; PHASE C-BLUE.
- 480Y/277-V, 3-PHASE, 4-WIRE: GROUNDED NEUTRAL-GRAY; PHASE A-BROWN; PHASE B-ORANGE; PHASE C-YELLOW.
- 480-V, DELTA, 3-PHASE, 3-WIRE: PHASE A-BROWN; PHASE B-ORANGE; PHASE C-YELLOW.
- 480-V, DELTA, 3-PHASE, 3-WIRE: PHASE A-BROWN; PHASE B-ORANGE; PHASE C-YELLOW.
- EQUIPMENT GROUNDING CONDUCTORS-GREEN; ISOLATED GROUNDS-GREEN WITH A YELLOW STRIPE.

3.17 ALL INSTALLATIONS WITHIN PLENUM RATED CEILING SPACE SHALL BE IN ACCORDANCE WITH NEC ARTICLE "WIRING METHODS" WITH REGARDS TO SMOKE DEVELOPMENT AND FLAME SPREAD.

3.18 ALL UNDERGROUND CABLE, PIPE AND CONDUITS SHALL BE DETECTABLE (METALLIC) OR HAVE A DETECTABLE UNDERGROUND LOCATION DEVICE INSTALLED WITH IT. THE RECOMMENDED DETECTABLE UNDERGROUND LOCATION DEVICE IS A #18 OR LARGER COPPER TRACER WIRE SECURELY ATTACHED TO THE TOP OF ANY NON-METALLIC CABLE, PIPE OR CONDUIT AT 8'-0" O/C AND SHALL HAVE A MINIMUM OF 12" OF TRACER WIRE ACCESSIBLE AT ALL ABOVE GRADE TERMINATIONS.

3.19 ALL HORIZONTAL UNDERGROUND CONDUIT RUNS (INCLUDING UNDER CONCRETE SLABS) SHALL BE A MINIMUM OF 24" BELOW GRADE.

3.20 ALL MATERIAL & DEVICES USED EXTERIOR OF THE BUILDING SHALL BE LISTED U.L. FOR WATERPROOF APPLICATIONS.

4.0 SUBMITTALS

4.1 SUBMIT 6 SETS OF SHOP DRAWINGS AND SAMPLES FOR ALL EQUIPMENT PRIOR TO ORDERING IN A TIMELY MANNER, SUBMITTALS SHALL INCLUDE LIGHT FIXTURES (INCLUDING LIGHT POLES), LIGHTING CONTROLS, SWITCHBOARDS, PANELBOARDS, BREAKERS, STARTERS, HVAC ELECTRICAL EQUIPMENT AND TRANSFORMERS.
4.1.1 SHOP DRAWINGS SHALL INCLUDE LAYOUT DIMENSIONS AND IDENTIFICATION OF SPECIFIC EQUIPMENT FOR INSTALLATION, MINIMUM NEC CLEARANCES SHALL BE INDICATED.
4.1.2 THE CONTRACTOR SHALL INCLUDE COMPARISON DATA AND SAMPLES FOR BOTH THE SUBSTITUTE AND SPECIFIED ITEMS WHEN SUBSTITUTIONS ARE PROPOSED. THE CONTRACTOR REMAINS RESPONSIBLE TO PROVIDE THE ORIGINALLY SPECIFIED INSTALLATION IN ACCORDANCE WITH THE ORIGINAL DELIVERY DATE (AT HIS COST) WHEN SUBSTITUTIONS ARE NOT APPROVED.

4.2 THE CONTRACTOR SHALL PROVIDE PROOF OF PERFORMANCE BOND WITH HIS INITIAL SUBMITTALS (E.G. SHOP DRAWINGS) TO INCLUDE WARRANTY FOR THE WARRANTY PERIOD (2 YEARS).

4.3 THE CONTRACTOR SHALL SUBMIT COMPLETE AND ACCURATE "AS BUILT" DRAWING TO THE OWNER AND ENGINEER WITHIN 2 WEEKS OF OWNER ACCEPTANCE. PROVIDE 4 SETS OF BLUELINES OR REPRODUCIBLES. FAILURE TO COMPLY WILL RESULT IN WITHHOLDING OF PAYMENTS DUE, AND ASSESSMENT OF CHARGES (AGAINST THE CONTRACTOR) FOR AS-BUILT DEVELOPMENT BY THE ENGINEER AT THE CURRENT HOURLY RATE.

4.4 PROVIDE A LETTER TO THE OWNER AND ENGINEER CERTIFYING ALL EQUIPMENT AND TERMINATION'S ARE PROPERLY TORQUED. THIS CERTIFICATION SHALL BE EXECUTED BY A LICENSED CONTRACTOR, AND WRITTEN CERTIFICATION PROVIDED ON COMPANY LETTERHEAD.

4.5 PROVIDE 2 COPIES OF ALL MANUFACTURER/SUPPLIER WARRANTIES AND GUARANTEES TO THE OWNER WITHIN 2 WEEKS OF FINAL ACCEPTANCE BY THE OWNER.

4.6 TESTS
4.6.1 SUBMIT 2 COPIES OF ALL INDEPENDENT TEST RESULTS FOR THE ELECTRICAL POWER DISTRIBUTION SYSTEM AS A COMPLETE PACKAGE TO THE OWNER AND ENGINEER. PACKAGE MUST PROVIDE SPECIFIC VALUES OF TEST DATA OBTAINED AGAINST ACCEPTANCE CRITERIA (SIMPLE PASS/FAIL ALONE IS INADEQUATE).
4.6.2 TESTING PERSONAL SHALL BE CERTIFIED BY THE NATIONAL ELECTRIC TESTING ASSOCIATION (NETA) OR NATIOANL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET).
4.6.3 ALL TESTING SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS OR NATIONALLY RECOGNIZED STANDARDS AND PRACTICES.
4.6.4 GROUNDING SYSTEM FALL OF POTENTIAL (RESISTANCE TO GROUND) TESTING.
4.6.4.1 GROUND SHALL PROVIDE 5 OHMS OR LESS RESISTANCE TO GROUND AND LESS THAN 0.5 OHMS POINT-TO-POINT BETWEEN THE MAIN GROUNDING ELECTRODE SYSTEM AND ELECTRICAL EQUIPMENT FRAMES, SYSTEM NEUTRAL AND/OR DERIVED NEUTRAL POINTS (REFERENCE IEEE STANDARDS 81-1983 AND 81-1991) AND SHALL NOT BE PERFORMED WITHIN 24 HOURS AFTER RAINFALL.
4.6.5 OVER-POTENTIAL (HI-POT) TESTING
4.6.5.1 SHALL BE PERFORMED ON ALL BUSSES 1000A OR GREATER OR ON MODIFICATIONS OF SERVICES GREATER THAN 400 AMPS.
4.6.5.2 TEST BOTH PHASE-TO-PHASE AND PHASE-TO-GROUND FOR AT LEAST ONE MINUTE.
4.6.6 GROUND FAULT PROTECTION TESTING
4.6.6.1 PROVIDE GROUND-FAULT PROTECTION TESTING BY CURRENT INJECTION AT SENSOR.
4.6.6.2 TEST PRIMARY CONTROL VOLTAGE TO NOT EXCEED 57% OF THE RATED VOLTAGE.
4.6.6.3 VERIFY PICK-UP TIME AND TIME-DELAY SETTINGS PROVIDED BY ENGINEER.
4.6.6.4 TEST GFP RELAY TIMING.
4.6.6.5 TEST INTEGRITY OF GROUNDED CONDUCTOR AND ITS INSULATION RESISTANCE TO GROUND.
4.6.7 INSULATION RESISTANCE (MEGGER) TESTING
4.6.7.1 TESTING SHALL BE 1000 VOLTS FOR ONE MINUTE AND SHALL PROVIDE 50 MEGAOHMS RESISTANCE OR GREATER.
4.6.7.2 TEST BOTH PHASE-TO-PHASE AND PHASE-TO-GROUND.

5.0 WARRANTY

5.1 THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND/OR WORKMANSHIP FURNISHED BY HIM UNDER THIS CONTRACT FOR A PERIOD OF **TWO YEARS** FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER. ANY DEFECTS DEVELOPING DURING THE WARRANTY PERIOD TRACEABLE TO MATERIALS OR WORKMANSHIP SHALL BE CORRECTED AT THE CONTRACTORS EXPENSE.

5.2 THE OWNER RETAINS THE RIGHT TO REQUIRE REMOVAL AND INSTALLATION (AT ANY TIME) OF ANY MATERIAL OR EQUIPMENT NOT IN COMPLIANCE WITH THE PROVISIONS AND STANDARDS OF THESE DRAWINGS AND SPECIFICATIONS. NO CLAIM FOR ADDITIONAL COMPENSATION WILL BE ALLOWED FOR WORK PERFORMED IN THIS REGARD.

5.3 THE CONTRACTOR AGREES TO TRANSFER ALL MANUFACTURER'S/SUPPLIER'S WARRANTIES AND GUARANTEES TO THE OWNER. THIS INCLUDES COMPLETION OF ALL DOCUMENTATION FOR THE MANUFACTURER/SUPPLIER.

6.0 SERVICE

6.1 PROVIDE AND INSTALL NEW SERVICE SECTION AS SHOWN ON DRAWINGS. S.E.S. SHALL BEAR U.L. LABEL, HAVE COPPER BUSSING – SILVER PLATED, AND AMPERAGE RATING AS SHOWN ON DRAWINGS. METERING AND PRIMARY PULL SECTION SHALL BE BARRIERED FROM OTHER WORK AND APPROVED BY BOTH THE LOCAL UTILITY COMPANY AND AUTHORITY HAVING JURISDICTION.

6.2 GROUND FAULT PROTECTION SHALL BE PROVIDED FOR SERVICES (480V L-L) WITH DISCONNECTS 1000A OR GREATER.

6.3 GROUND FAULT PROTECTION ON MAINS AND SUB-MAINS MUST HAVE AUDIBLE/VISIBLE ALARMS.

6.4 ENCLOSURES SHALL MEET U.L. AND PUBLIC UTILITY REQUIREMENTS–PHYSICALLY BARRIERED BETWEEN SECTIONS, LINE AND LOAD, BOTH BARRIERED.

6.5 NO COVERS GREATER THAN 1/3 HEIGHT OF EQUIPMENT.

6.6 FULL SIZED NEUTRAL BUSSING AND FULLY RATED (NON-TAPERED) BUSSING WILL BE STANDARD. THIS INCLUDES MAXIMUM RATINGS FOR SUPPLY AND SECTION (i.e. HORIZONTAL AND VERTICAL) BUSSES (UNLESS NOTED OTHERWISE). CENTER FEED SUPPLY BUSSES SHALL BE MAXIMUM RATED ON EITHER SIDE OF THE FEED. ALL SPACE WILL BE FULLY BUSSED FOR FUTURE. ALL BUSSING WILL BE PHYSICALLY BARRIERED.

6.7 ALL SERVICES SHALL BE U.L. LISTED FOR FRONT ACCESSIBILITY ONLY.

6.8 ALL SERVICE SECTIONS SHALL BE OF A CONSISTENT HEIGHT AND INCLUDE PROTECTION OF OPERATIONAL DEVICES AND METERS FROM PHYSICAL DAMAGE.

6.9 PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL FREESTANDING ELECTRICAL SERVICE ENTRANCE EQUIPMENT PER LOCAL UTILITY COMPANY SPECIFICATIONS.

6.10 **SERVICE COORDINATION STUDY**
6.10.1 **DESCRIPTION**
6.10.1.1 WHEN ADJUSTABLE TRIP CIRCUIT BREAKERS OR 2-TIER GROUND FAULT SYSTEM IS SPECIFIED, PROVIDE A SHORT-CIRCUIT AND PROTECTIVE DEVICE COORDINATION STUDY FOR THE ELECTRICAL DISTRIBUTION SYSTEM. THE INTENT OF THESE STUDIES ARE TO VERIFY THAT THE SPECIFIED AND SUPPLIED EQUIPMENT ARE PROPERLY RATED, CORRECTLY APPLIED, AND WITHIN INDUSTRY AND MANUFACTURER'S TOLERANCES.
6.10.1.2 THE SHORT CIRCUIT STUDY SHALL INCLUDE ALL PORTIONS OF THE ELECTRICAL DISTRIBUTION SYSTEM FROM THE NORMAL AND ALTERNATE SOURCES OF POWER THROUGHOUT THE DISTRIBUTION SYSTEM DOWN TO THE SMALLEST PROTECTIVE DEVICE. THE SHORT CIRCUIT STUDY SHALL CONSIDER OPERATION DURING NORMAL CONDITIONS, ALTERNATE OPERATIONS, EMERGENCY POWER CONDITIONS AND ANY OTHER OPERATIONS WHICH COULD RESULT IN MAXIMUM FAULT CONDITIONS.
6.10.1.3 THE COORDINATION STUDY WILL DETERMINE THE CORRECT SETTINGS FOR THE PROTECTIVE DEVICES WHICH WILL MINIMIZE THE DAMAGE CAUSED BY AN ELECTRICAL FAULT AND ALLOW FOR SELECTIVE COORDINATION BETWEEN THE DEVICES. THE COORDINATION STUDY SHALL INCLUDE THE CLOSET UPSTREAM UTILITY PROTECTIVE DEVICE DOWN TO THE PANELBOARD MAIN, BRANCH OR FEEDER CIRCUIT BREAKERS. THE COORDINATION STUDY SHALL CONSIDER OPERATION DURING NORMAL CONDITIONS, ALTERNATE OPERATIONS AND DURING EMERGENCY POWER CONDITIONS.
6.10.2 **QUALIFICATIONS**
6.10.2.1 THE CONTRACTOR SHALL HAVE THE COORDINATION STUDY PREPARED BY QUALIFIED ENGINEERS OF AN INDEPENDENT CONSULTANT AND OR MANUFACTURER. THE CONSULTANT/MANUFACTURER SHALL BE AN EXPERIENCED REGISTERED PROFESSIONAL ELECTRICAL ENGINEER (LICENSED IN THE STATE WHERE THE PROJECT IS COMPLETED) SPECIALIZING IN PERFORMING POWER SYSTEM STUDIES.
6.10.3 **SUBMITTALS**
6.10.3.1 THE CONTRACTOR SHALL SUBMIT THE POWER SYSTEM STUDIES IN CONJUNCTION WITH THE EQUIPMENT SUBMITTALS. THE ELECTRICAL SUBMITTALS WILL BE REVIEWED BUT WILL NOT BE APPROVED UNLESS THE POWER SYSTEM STUDIES HAVE BEEN RECEIVED AND REVIEWED.

6.11 **PROTECTIVE DEVICE COORDINATION STUDY**
6.11.1 ALL REQUIREMENTS OF THE CURRENT NATIONAL ELECTRICAL CODE AND NFPA 5000 SHALL BE ADHERED TO.
6.11.2 THE COORDINATION STUDY SHALL INCLUDE THE CLOSEST UPSTREAM UTILITY PROTECTIVE DEVICE DOWN TO THE PANELBOARD MAIN, BRANCH, OR FEEDER CIRCUIT BREAKERS. PREPARE THE COORDINATION CURVES TO DETERMINE THE REQUIRED SETTINGS OF PROTECTIVE DEVICES TO ASSURE SELECTIVE COORDINATION.
6.11.3 THE PHASE AND GROUND OVERCURRENT PROTECTION SHALL BE INCLUDED, AS WELL AS SETTINGS FOR ALL OTHER ADJUSTABLE PROTECTIVE DEVICES.
6.11.4 GRAPHICALLY ILLUSTRATE ON LOG-LOG PAPER THAT ADEQUATE TIME SEPARATION EXISTS BETWEEN DEVICES. SUFFICIENT CURVES SHALL BE USED TO CLEARLY INDICATE THE COORDINATION ACHIEVED BETWEEN DEVICES. REASONABLE COORDINATION INTERVALS AND SEPARATION OF CHARACTERISTIC CURVES SHALL BE MAINTAINED. PLOT THE SPECIFIC TIME-CURRENT CHARACTERISTICS OF EACH PROTECTIVE DEVICE IN SUCH A MANNER THAT THE UPSTREAM DEVICES WILL BE CLEARLY DEPICTED ON THE SHEET.
6.11.5 THE FOLLOWING SPECIFIC INFORMATION SHALL ALSO BE SHOWN ON THE COORDINATION CURVES:
6.11.5.1 DEVICE IDENTIFICATIONS.
6.11.5.2 TIME AND CURRENT RATIO FOR CURVES.
6.11.5.3 FUSE, CIRCUIT BREAKER, AND RELAY CURVES, SHOWING COMPLETE OPERATING BANDS OF LOW VOLTAGE CIRCUIT BREAKER TRIP CURVES.
6.11.5.4 LOW VOLTAGE EQUIPMENT CIRCUIT BREAKER TRIP DEVICES, INCLUDING MANUFACTURERS TOLERANCE BANDS.
6.11.5.5 PERTINENT TRANSFORMER FULL-LOAD CURRENTS AT 100 AND 600 PERCENT.
6.11.5.6 GROUND FAULT PROTECTIVE DEVICE SETTINGS.
6.11.5.7 OTHER SYSTEM LOAD PROTECTIVE DEVICES FOR LARGEST BRANCH CIRCUIT AND FEEDER CIRCUIT BREAKER IN EACH MOTOR CONTROL CENTER AND PANELBOARD.
6.11.6 DEVELOP A TABLE TO SUMMARIZE THE SETTINGS SELECTED FOR THE PROTECTIVE DEVICES. INCLUDE IN THE TABLE THE FOLLOWING:
6.11.6.1 DEVICE IDENTIFICATIONS.
6.11.6.2 DURRENT TRANSFORMER RATIO, RELAY TAP, TIME DELAY AND INSTANTANEOUS PICKUP.
6.11.6.3 CIRCUIT BREAKER SENSOR RATING, LONG-TIME, SHORT-TIME AND INSTANTANEOUS SETTINGS AND TIME BANDS.
6.11.6.4 FUSE RATING AND TYPE.
6.11.6.5 GROUND FAULT PICKUP AND TIME DELAY.

6.12 **ANALYSIS**
6.12.1 ANALYZE THE SHORT CIRCUIT CALCULATIONS AND HIGHLIGHT ANY EQUIPMENT THAT IS DETERMINED TO BE UNDERRATED AS SPECIFIED OR NOT COORDINATED. PROPOSE APPROACHES TO EFFECTIVELY PROTECT THE UNDERRATED EQUIPMENT. PROPOSED MAJOR CORRECTIVE MODIFICATIONS WILL BE TAKEN UNDER ADVISEMENT BY THE ENGINEER AND THE CONTRACTOR WILL BE GIVEN FURTHER INSTRUCTIONS.

6.12.2 AFTER DEVELOPING THE COORDINATION CURVES, HIGHLIGHT AREAS LACKING COORDINATION. FOR EACH SHEET, PRESENT A TECHNICAL EVALUATION WITH A DISCUSSION OF THE LOGICAL COMPROMISES FOR BEST COORDINATION.

6.13 **REPORT**
THE RESULTS OF THE POWER SYSTEM STUDY SHALL BE SUMMARIZED IN A FINAL REPORT. THE REPORT SHALL INCLUDE THE FOLLOWING SECTIONS:
6.13.1 PROTECTIVE DEVICE TIME VERSUS CURRENT COORDINATION CURVES, TABULATIONS OF RELAY AND CIRCUIT BREAKER TRIP SETTINGS, FUSE SELECTION AND COMMENTARY REGARDING SAME.
6.13.2 COPIES OF THE MANUFACTURERS TIME CURRENT CURVES FOR THE DEVICES STUDIED AND PLOTTED ON THE TIME CURRENT CURVES.

7.0 DISTRIBUTION

7.1 **PANELBOARDS** (EXISTING): ADD CIRCUIT BREAKERS (FULL SIZED BREAKERS) AS REQUIRED FOR CIRCUITING. MATCH PRECISELY BRAND AND PROVIDE A.I.C. RATING AS INDICATED ON DRAWINGS. TANDEM AND PIGGY-BACK BREAKERS ARE NOT PERMITTED. ALL LUGS OR CONNECTORS TO BE 60°C FOR PANEL LESS THAN OR EQUAL 100 AMPS AND 75°C RATED OF GREATER THAN 100AMPS MINIMUM.

7.2 **PANELBOARDS** (NEW): SHALL BE RATED AS SHOWN ON DRAWINGS WITH PLATED COPPER BUSSING. PROVIDE NEMA ENCLOSURES AS REQUIRED BY CODE FOR REGULATION. BACK BOXES ENLARGED FOR DOUBLE NEUTRALS AND LUGS CAPABLE OF OVERSIZING ISOLATED GROUND AND NORMAL GROUND BUS. ALL LUGS OR CONNECTORS TO BE 60°C FOR PANEL LESS THAN OR EQUAL 100 AMPS AND 75°C RATED OF GREATER THAN 100AMPS MINIMUM. PANELBOARD CABINET SHALL BE EQUIPPED WITH PIANO HINGES WITH DOOR IN DOOR CONSTRUCTION.

7.3 **CIRCUIT BREAKERS** WILL BE SWITCH RATED AND AMBIENT COMPENSATED FOR ALL CIRCUITS. PROVIDE SWITCHED NEUTRALS ON ALL CIRCUIT BREAKERS FEEDING CLASS 1 AND CLASS 2 AREAS WITH NEUTRALS. GFCI ON CIRCUITS WITH NEUTRALS TO DEVICES ABOVE CLASSIFIED AREAS. ALL LIGHTING PANELS/CIRCUIT BREAKERS SHALL BE RATED FOR CONTINUOUS DUTY. HACR RATED BREAKERS SHALL BE INSTALLED FOR ALL HVAC CIRCUITS CONTAINING MULTIPLE MOTOR LOADS.

7.4 ALL EQUIPMENT (PANELS, DISCONNECT SWITCHES, STARTERS, ETC.) WILL BE MARKED WITH BLACK OR RED ENGRAVERS STOCK TAGS EMBOSSED WITH 1/4" HIGH LETTERS DESCRIBING EACH ITEM. CONDUCTORS WILL BE MARKED AT ALL TERMINATION AND JUNCTION POINTS (PANELS, JUNCTION BOXES, SPLICES, ETC.) WITH LABELS BEARING THE PANEL AND CIRCUIT NUMBER WHICH FEEDS EACH CONDUCTOR (PER NEC 210.4, 300.3).

7.5 ALL **PANELBOARDS** WILL HAVE TYPED DIRECTORY CARDS IDENTIFYING ALL CIRCUITS AND SPACES.

7.6 ACCEPTABLE MANUFACTURERS FOR **PANELBOARDS, SWITCHBOARDS, AND TRANSFORMERS** SHALL BE PER SECTION 3.15 OF THIS SPECIFICATION. TRANSFORMERS 15 KVA AND ABOVE SHALL BE 150°C TEMPERATURE RISE ABOVE 40°C AMBIENT. ALL INSULATING MATERIALS TO BE IN ACCORDANCE WITH NEMA ST20-1972 STANDARDS FOR A 220°C UL COMPONENT RECOGNIZED INSULATION SYSTEM. SINGLE PHASE TRANSFORMERS 15 KVA THROUGH 50 KVA, AND THREE PHASE TRANSFORMERS THROUGH 45 KVA SHALL BE DESIGNED SO THEY CAN BE EITHER FLOOR OR WALL MOUNTED. THE TRANSFORMER SHALL BE LISTED BY UNDERWRITERS LABORATORY FOR SPECIFIED TEMPERATURE RISE. TRANSFORMERS 75 KVA AND ABOVE SHALL BE DESIGNED FOR FLOOR INSTALLATION ONLY UNLESS NOTED OTHERWISE.

7.7 LABEL ALL PANELS/TRANSFORMERS/DISCONNECTS WITH "WARNING" – ELECTRICAL EQUIPMENT – DANGER – QUALIFIED PERSONNEL ONLY TO OPERATE ON OPEN EQUIPMENT.

7.8 **DISCONNECT SWITCHES** WILL BE COMMERCIAL-DUTY, QUICK-MAKE, QUICK-BREAK, HORSEPOWER RATED, NEMA 1 INDOOR, NEMA 3R GASKETED, (4X) NEMA 12, OR NEMA 7 AS APPLICABLE WITH FUSES PER DRAWING.

7.9 **MANUAL MOTOR** STARTERS WITH THERMAL OVERLOADS WILL BE PROVIDED FOR FRACTIONAL HORSEPOWER MOTORS 1/2 HP OR GREATER. SQUARE 'D' CLASS 2510, 2511, 2512. AMBIENT COMPENSATED AS REQUIRED.

7.10 **MAGNETIC MOTOR STARTERS** WITH THERMAL OVERLOADS, (2) AUXILIARY CONTACT SWITCHES, INTERNAL LINE VOLTAGE TO 24 VOLT TRANSFORMER (250VA. MIN) WITH PROPER PRIMARY/SECONDARY PROTECTION, AMBIENT COMPENSATED, RED RUNNING LIGHT, HAND-OFF-AUTO, ACROSS THE LINE STARTERS. SHALL BE PROVIDED WITH ALL MOTOR SHOWN ON THE DRAWING (1 H.P. TO 25 H.P.).

7.11 **CONTROL PANELS** CONTROL PANELS SHALL HAVE A WITHSTAND RATING OF 10,000 AMPS FOR .5 SEC. UNLESS INDICATED OTHERWISE ON THE DRAWINGS.

8.0 LIGHT FIXTURES

8.1 FURNISH AND INSTALL ALL LIGHTING FIXTURES COMPLETE WITH LAMPS, WHIPS AND ACCESSORIES. ALL RECESSED FIXTURES WILL BE RATED FOR USE IN ANY CEILING APPLICATIONS AND BE THERMALLY PROTECTED.

8.2 MOUNTING TYPE AND VOLTAGE OF FIXTURES IS THE RESPONSIBILITY OF THE CONTRACTOR. (4) EARTHQUAKE CLIPS WILL BE INSTALLED ON EACH FIXTURE MOUNTED IN GRID OR FLANGE TYPE CEILINGS. FLUORESCENT FIXTURE LENSES WILL BE 100% ACRYLIC, .125" THICK MINIMUM.

8.3 ALL FIXTURES TO BE INSTALLED IN SYMMETRICAL MANNER FREE FROM LIGHT LEAKS AND DIRTY LENSES OR REFLECTORS.

8.4 ALL LAY-IN FIXTURES IN ACOUSTICAL CEILING SYSTEMS WILL BE INSTALLED PER IBC STANDARD. VERIFY WITH LOCAL BUILDING AUTHORITY.
8.4.1 SUPPORT FIXTURES PER IBC WITH TWO LOOSE SIZE #9 WIRES TO STRUCTURES ON OPPOSITE CORNERS AND 2 TAUGHT SIZE #9 WIRE TO STRUCTURE AT CORNERS AND/OR FIXTURE SHALL BE FASTENED BY SCREWS INTO T-BAR RUNNERS IN ACCORDANCE WITH LOCAL AUTHORITY HAVING JURISDICTION.

8.5 **LAMPS**
FLUORESCENT LAMPS:
8.5.1 T8-3500 KELVIN TEMPERATURE UNLESS NOTED OTHERWISE.
8.5.2 80 CRI (COLOR RENDERING INDEX) MINIMUM.
H.I.D. LAMPS:
8.5.3 AS NOTED ON PLANS
INCANDESCENT LAMPS:
8.5.4 130V FOR ALL "A" TYPE LAMPS.
L.E.D.
8.5.5 AS NOTED ON PLANS

8.6 **BALLASTS**
8.6.1 ALL BALLASTS SHALL BE:
8.6.1.1 HIGH POWER FACTOR, UL LISTED, CBM CERTIFIED AND ETL TESTED.
8.6.1.2 HAVE A SOUND RATING OF "A"
8.6.1.3 HAVE THD < 10%
8.6.1.4 HAVE GREATER THAN 0.9 POWER FACTOR
8.6.2 FLUORESCENT BALLAST SHALL:
8.6.2.1 START RELIABLY DOWN TO AT LEAST 60°F (0°F WHEN INDICATED AS LOW TEMPERATURE ON THE DRAWINGS OR IN AN OPEN WAREHOUSE OR OUTDOORS)
8.6.2.2 BE RATED FOR AN AMBIENT OF AT LEAST 140°F.
8.6.2.3 ELECTRONIC TYPE (INSTANT OR RAPID START).
8.6.3 HID BALLASTS SHALL:
8.6.3.1 START RELIABLY DOWN TO AT LEAST – 20°F.
8.6.3.2 BE RATED FOR AN AMBIENT OF AT LEAST 131°F.
8.6.3.3 BE POTTED AND ENCASED WHEN INSTALLED IN AN OFFICE ENVIRONMENT.
8.6.3.4 HAVE PULSE START TECHNOLOGY.
8.6.4 ELECTRONIC DIMMING BALLAST SHALL:
8.6.4.1 WITHSTAND SURGES AS SPECIFIED IN ANSI C62.41
8.6.4.2 PREHEAT LAMP CATHODES BEFORE APPLYING ARC VOLTAGE
8.6.4.3 INTERNALLY LIMIT INRUSH CURRENT TO NOT EXCEED THREE AMPS AT 277 VOLTS OR SEVEN AMPS AT 120 VOLTS.
8.6.4.4 BE UL LISTED AND CLASS P THERMALLY PROTECTED
8.6.4.5 BE INAUDIBLE IN A 27Db AMBIENT THROUGHOUT THE DIMMING RANGE.
8.6.4.6 HAVE A DIMMING RANGE FROM 100% TO 10% ILLUMINANCE LEVEL.
8.6.4.7 ACCEPTABLE MANUFACTURERS: ADVANCE, MOTOROLA, LUTRON, HONEYWELL, AND MAGNETEK.

8.7 **DIMMERS AND SWITCHES**
8.7.1 ALL DEVICES SHALL BE UL LISTED SPECIFICALLY FOR THE REQUIRED LOADS (I.E., INCANDESCENT, FLUORESCENT, L.E.D., LOW VOLTAGE, ELECTRONIC LOW VOLTAGE).
8.7.2 DIMMERS AND SWITCHES SHALL MEET OR EXCEED ANSI/IEEE STD.C62.41-1980
8.7.3 DIMMERS AND SWITCHES SHALL MEET UL 20 AND UL 1472.
8.7.4 DIMMER CONTROL SHALL BE LINEAR SLIDE. DIMMER SHALL PROVIDE A SMOOTH AND CONTINUOUS SQUARE LAW DIMMING CURVE.
8.7.5 DIMMERS SHALL UTILIZE AN LC FILTERING NETWORK TO MINIMIZE INTERFERENCE WITH PROPERLY INSTALLED RADIO, AUDIO, AND VIDEO EQUIPMENT.
8.7.6 DIMMER CONTROL SLIDER SHALL BE CAPTURED.
8.7.7 FACEPLATE SHALL SNAP ON TO DEVICE WITH NO VISIBLE MEANS OF ATTACHMENT.
8.7.8 ACCEPTABLE MANUFACTURES FOR DIMMERS ARE LUTRON, LITHONIA, LEVITON AND PRESCOLITE, LIGHTOLIER OR PRIOR APPROVED EQUAL.
8.7.9 ALL DIMMERS WITH L.E.D.'S SHALL BE RATED/LISTED FOR USE WITH THE SPECIFIC LAMP OR LUMINAIRE.

8.8 **LIGHTING CONTACTORS**
8.8.1 LIGHTING CONTACTORS SHALL HAVE A WITHSTAND RATING OF 14,000 AMPS FOR 0.5 SECONDS UNLESS INDICATED OTHERWISE ON THE DRAWINGS.

8.9 **LIGHTING CONTROL PANELS**
8.9.1 PROGRAMMING SHALL BE COORDINATED WITH OWNER AND TENANT PRIOR TO COMPLETION OF PROJECT.
8.9.2 ALL PROGRAMMING SHALL MEET MINIMUM REQUIREMENTS OF ADOPTED INTERNATIONAL ENERGY CONSERVATION CODE (IECC).
8.9.3 ALL RELAYS SHALL BE RATED FOR MINIMUM OF 14,000 A.I.C.

9.0 TELEPHONE SYSTEM

9.1 PROVIDE AND INSTALL A COMPLETE SYSTEM OF EMPTY RACEWAYS 3/4" EMT MINIMUM WITH PULL STRAP/CORD. PROVIDE REQUIRED/REQUESTED INFORMATION TO TELEPHONE COMPANY PRIOR TO INSTALLATION.

10.0 DATA/INFORMATION SYSTEM

10.1 PROVIDE AND INSTALL A COMPLETE SYSTEM OF RACEWAYS (CABLE TRAYS, J-HOOKS, CONDUIT SLEEVES) OF PREFERABLY OPEN CONSTRUCTION WITH PULL LINE. RACEWAYS TO BE CONTINUOUS.

11.0 FIRE ALARM SYSTEM

THIS SECTION SHOWN FOR REFERENCE ONLY. FIRE ALARM DESIGN TO BE PROVIDED AS A DEFERRED SUBMITTAL BY OTHERS. FIRE ALARM CONTRACTOR SHALL PROVIDE DRAWINGS AND DESIGN CALCULATIONS STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER.

11.1 PROVIDE AND INSTALL A COMPLETE AND WORKING CLASS "B" FIRE ALARM SYSTEM OR AS INDICATED BY THE FIRE ALARM ONE-LINE DIAGRAM ON THE DRAWINGS. POWER LIMITED BY N.E.C. DEFINITION. ALL WIRING WITH DEVICES AND CONDUCTORS TO BE U.L., F.M., OR C.S.A. LISTED AND APPROVED (LABELS ON EQUIPMENT).
11.1.1 AS PROVIDED BY DRAWINGS ALL SPRINKLER SYSTEMS WITH GREATER THAN 100 HEADS SHALL HAVE MINIMUM 6 ZONE CLASS B FIRE ALARM CONTROL PANEL WITH AUTO DIALER. SPRINKLER SYSTEMS WITH LESS THAN 100 HEADS REQUIRE ONLY CONNECTION TO WATER FLOW AND TAMPER SWITCH AND MAY BE INDICATED ON DRAWINGS IN SOME CASES.

11.2 ALL WIRING TO BE #14 A.W.G. CU., STRANDED, 105° INSULATED, PLENUM RATED. INSTALLED 600V. RATED INSULATION IN CONDUIT OR RACEWAY WITH SIX (6) FEET SPACING BETWEEN OUTPUT/INPUT PER N.F.P.A.

11.3 SYSTEM INSTALLATION AND DEVICES WILL BE IN ACCORDANCE WITH ALL PERTINENT AND MOST STRINGENT REQUIREMENTS (ONLY POWER LIMITED SYSTEMS WILL BE ACCEPTED) OF:
11.3.1 N.F.P.A.
11.3.1.1 70 – NATIONAL ELECTRICAL CODE
11.3.1.2 72 A,B,C,D,E,F,G,H (LOCAL SIGNALING SYSTEMS (A), AUTOMATIC FIRE DETECTION (E), ALARM SIGNALING APPLIANCES (G), ETC.)
11.3.1.3 71 – CENTRAL STATION SIGNALING
11.3.2 ARS TITLE 26, CHAPTER 2-3 (ARIZONA STATE FIRE CODE)
11.3.3 AMERICANS WITH DISABILITIES ACT (ADA) AND THE ARIZONA HANDICAP REGULATIONS.
11.3.4 I.C.B.O. – INTERNATIONAL BUILDING CODE & INTERNATIONAL FIRE CODE AND ANY STATE OR LOCAL CODES WHICH MAY BE APPLICABLE.
11.3.5 WORK SHALL BE COMPLETED BY UL CERTIFIED INSTALLERS.

11.4 DO NOT POSITION SMOKE DETECTORS WITHIN 36" OF ANY AIR HANDLING GRILLES (SUPPLY OR RETURN) OR WITHIN 12" OF FACILITY LIGHTING FIXTURES.

11.5 ALL DEVICE BACK BOXES TO BE MOUNTED FLUSH, PERPENDICULAR TO FINISH WALLS AND CEILING SURFACES USING STANDARD "TRADE" MOUNTING HARDWARE.

11.6 CONTRACTOR WILL COMPLY WITH PROJECT SPECIFICATIONS, AND SUPPLY SHOP DRAWINGS, CUTS, SAMPLES, ETC. TO THE ENGINEER WITHIN 5 DAYS OF CONTRACT.

11.7 SYSTEM MONITORED AT ACM, U.L. APPROVED REMOTE MONITORING STATION LOCATED IN CITY OF PROJECT.

11.8 EXTEND EXISTING SYSTEM TO NEW DEVICES. LOADS ON EACH ZONE, OR RUN TO BE CALCULATED (RESULTS TO ENGINEER) PRIOR TO INSTALLATION. ADDITIONAL RUNS, ZONES, CONTROL CARDS, ETC., REQUIRED FOR FACP/FAAP TO BE INCLUDED IN BID.

11.9 EDWARDS, SIMPLEX, FIRELITE OR PYROTRONICS ARE ACCEPTABLE MANUFACTURERS. INSTALLATION SHOULD BE COMPATIBLE TO THE MAXIMUM EXTENT PRACTICAL WITH FUTURE ADDITIONS OF EQUIPMENT AND DEVICES TO INCLUDE OTHER MANUFACTURERS.

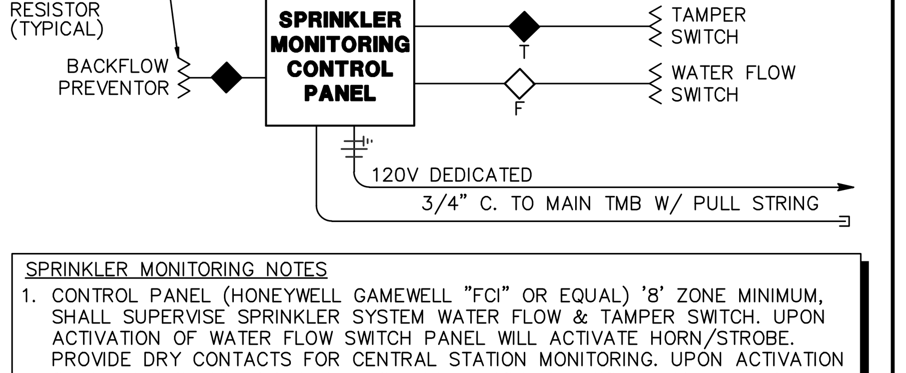
11.10 ALL PENETRATIONS OF FIRE RATED FLOORS OR WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION THAT CONFORM TO U.L. LISTINGS FOR THROUGH PENETRATION FIRE STOP SYSTEMS PER IBC.

GENERAL NOTES

1. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND COMPLETE CONTRACTUAL OBLIGATIONS.
2. THE ELECTRICAL CONTRACTOR SHALL (PRIOR TO HIS BID) a) VISIT THE SITE AND FIELD VERIFY ALL EXISTING CONDITIONS AND b) TAKE ALL CONSIDERATIONS INTO ACCOUNT AT THE TIME OF BID. NO CONSIDERATIONS WILL BE GRANTED THE CONTRACTOR AFTER THE BID IS ACCEPTED.
3. ALL ELECTRICAL METALLIC TUBING (EMT), RIGID NON-METALLIC CONDUIT, FLEXIBLE METALLIC CONDUIT, FLEXIBLE NON-METALLIC CONDUITS, "SEALTIGHT" TYPE CONDUITS AND ALL OTHER CONDUITS THAT DO NOT CONTAIN A CODE SIZED GROUND WIRE SHALL HAVE A CODE SIZED BOND WIRE PER NEC TABLE 250.122 INSTALLED WITH THE CIRCUIT CONDUCTORS.
4. ALL NIGHTLIGHT/EMERGENCY LIGHT (NL/EM) FIXTURES SHALL BE CONNECTED UNSWITCHED. IF NO EMERGENCY LIFE SAFETY SYSTEM IS INSTALLED (ie: GENERATOR, etc.). THE OUTER LAMPS SHALL BE CONNECTED UNSWITCHED TO LOCAL LIGHTING CIRCUIT AND CONNECTED VIA AN EMERGENCY BALLAST – 1400 LUMEN OR FULL LUMEN OUTPUT MINIMUM. PROVIDE NEW IF NOT ALREADY EXISTING.
5. ALL FIXTURES INSTALLED OUTDOORS SHALL BE RATED FOR DAMP/WET LOCATIONS AS REQUIRED. THE CONTRACTOR SHALL COORDINATE DAMP/WET LOCATION RATING AND INSTALLATION PER NEC ARTICLE "FIXTURE LOCATIONS".
6. ALL RECESSED LIGHT FIXTURES SHALL BE I.C. RATED OR A MINIMUM OF 3" FROM COMBUSTIBLE MATERIAL PER NEC ARTICLE "LUMINAIRES, LAMPHOLDERS AND LAMPS – CLEARANCE AND INSTALLATION".
7. ELECTRICAL CONTRACTOR TO VERIFY A MINIMUM OF 1 FOOT-CANDLE AT 1 FOOT ABOVE FLOOR ALONG EXIT PATH PER IBC ARTICLE "MEANS OF EGRESS ILLUMINATION".
8. LIGHT SWITCHES SHALL BE INSTALLED TO CONFORM TO NEC ARTICLE "SWITCHES – ACCESSIBILITY AND GROUPING".
9. RECEPTACLES LOCATED WITHIN 6'-0" OF SINKS OR WATER SHALL BE CONNECTED EITHER TO A GROUND FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER OR TO A GROUND FAULT CIRCUIT INTERRUPTER TYPE RECEPT.
10. PRIOR TO ROUGH-IN, THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL HVAC UNITS AND SUPPLY AIR DUCT SMOKE DETECTORS WITH THE MECHANICAL DRAWINGS.
11. PROVIDE ROOF TOP WEATHER PROOF / WEATHER RESISTANT G.F.C.I. WITHIN 25'-0" OF ALL ROOF TOP HVAC EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE "HEATING, AIR-CONDITIONING AND REFRIGERATION EQUIPMENT OUTLET". THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THESE RECEPTACLES IN THE FIELD REGARDLESS PLAN LAYOUT.
12. ALL DISCONNECTS SHALL BE OF THE HEAVY DUTY TYPE AND FUSED PER THE NAMEPLATE RATING OF THE HVAC UNIT OR MOTOR.
13. THE EC SHALL – PRIOR TO ROUGH-IN, FIELD VERIFY ALL HVAC VOLTAGES AND AMPERAGES AGAINST PLAN REQUIREMENTS. FAILURE TO VERIFY AND NOTIFY ENGINEER/ ARCHITECT PRIOR TO ROUGH-IN SHALL INDICATE THAT THE EC SHALL ASSUME ALL RESPONSIBILITY FOR DESIGN AND INSTALLATION REQUIREMENTS.
14. THE ELECTRICAL CONTRACTOR SHALL ENSURE FINAL COORDINATION OF THE MANUFACTURERS RECOMMENDED FUSE SIZE FOR HVAC EQUIPMENT WITH THE SIZE DISCONNECT PRIOR TO OR DURING ROUGH-IN. ADVISE ENGINEER IF CHANGES IN THE FINAL SELECTION OF HVAC EQUIPMENT HAVE IMPACTED DISCONNECT, BREAKER, OR CONDUCTOR SIZE.
15. ALL ROOF TOP UNITS EXPOSED TO AMBIENT TEMPERATURES AND WEATHER SHALL HAVE NEMA 3R MINIMUM RATED DISCONNECTS.
16. MAXIMUM TAP CONDUCTOR LENGTH SHALL BE 25'-0" PER NEC ARTICLE "FEEDER TAPS" AND "TRANSFORMER SECONDARY CONDUCTORS" AND SHALL NOT BE SMALLER THAN 1/3 THE AMPACITY OF FEEDER CONDUCTORS.
17. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR AND FIRE ALARM CONTRACTOR REGARDING SMOKE DUCT DETECTORS TO INCLUDE PURCHASE, INSTALLATION, AND FINAL CONNECTIONS.
18. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER OR OTHER SUPPLIERS REGARDING ANY REQUIREMENTS FOR MOTOR STARTERS IN ADDITION TO THAT WHICH IS INDICATED FOR THE HVAC SYSTEM. THIS INCLUDES FURNISH AND INSTALL STARTERS TO INTERFACE WITH ANY ENERGY MANAGEMENT SYSTEM OR OTHER SPECIAL SYSTEMS.
19. ELECTRICAL CONTRACTOR SHALL PROVIDE CORRECT SIZE/ TYPE/ VOLTAGE/ QUANTITY OF DUAL-ELEMENT, TIME-DELAY FUSE(S) SIZED PER HVAC EQUIPMENT MANUFACTURER UNLESS OTHERWISE SPECIFIED BY UNIT NAMEPLATE/ MANUFACTURER DATA.
20. ALL INDOOR FLUORESCENT FIXTURES WITH DOUBLE ENDED LAMPS SHALL HAVE INTEGRAL DISCONNECTS.

CLASS 'B' SPRINKLER MONITORING ONE-LINE DIAGRAM

N.T.S.



SPRINKLER MONITORING NOTES

1. CONTROL PANEL (HONEYWELL GAMEWELL "FCI" OR EQUAL) '8' ZONE MINIMUM, SHALL SUPERVISE SPRINKLER SYSTEM WATER FLOW & TAMPER SWITCH. UPON ACTIVATION OF WATER FLOW SWITCH PANEL WILL ACTIVATE HORN/STROBE. PROVIDE DRY CONTACTS FOR CENTRAL STATION MONITORING. UPON ACTIVATION OF TAMPER SWITCH OR BACK FLOW PREVENTOR, THE SONALERT IN F.A.C.P. (ONLY) WILL SOUND CONTROL PANEL AND WIRING TO BE COMPLETELY SUPERVISED. ANY OPEN GROUNDS OR SHORTS TO INDICATE A TROUBLE SIGNAL.
2. PROVIDE A COMPLETE AND OPERATING SPRINKLER MONITORING SYSTEM, TO INCLUDE ALL PIPING, WIRING, BOXES AND DEVICES AS SHOWN ON FIRE ALARM PLANS. VERIFY ANY ADDITIONAL REQ'MTS PRIOR TO BID.
3. ALL DEVICES SHALL BE COMPATIBLE WITH FACP.
4. ALL SPRINKLER MONITORING DEVICES SHALL BE A.D.A. APPROVED AND MOUNTED PER A.D.A. REQUIREMENTS.
5. MINIMUM OF #14 CU (1) PAIR CABLE IN MINIMUM OF 3/4" EMT. ALL FIRE ALARM J-BOX COVERS SHALL BE PAINTED RED AND MARKED "FIRE ALARM" IN BLACK LETTERS. UNBROKEN CONDUIT RUNS OF OVER 50' SHALL BE IDENTIFIED AS "FIRE ALARM" WITH EITHER AN APPROVED CONDUIT MARKER WRAP OR RED BANDS PAINTED ON CONDUIT WITH BLACK LETTERS MARKED "SPRINKLER MONITORING" AT APROX 50' INTERVALS.
6. MINIMUM OF 6" SEPARATION ON ALL SPRINKLER MONITORING CONDUIT RUNS.
7. COORDINATE TYPE OF WIRE WITH SPRINKLER MONITORING VENDOR.
8. VERIFY ALL DEVICE QUANTITIES ON FIRE ALARM PLANS.
9. ALL DEVICES TO COMPLY W/ A.D.A.

NOTE: FIRE ALARM SYSTEM SHALL BE A DEFERRED SUBMITTAL. DIAGRAM SHOWN FOR REFERENCE ONLY.

DESIGN CODES
IECC: 2021 NEC: 2020

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PROFESSIONAL ENGINEER No. 9441757-2202 ARMANDO GARCIA STATE OF UTAH

SEALED 2-26-2026

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CONSTRUCTION DOCUMENTS
02/26/26
REVISIONS

ELECTRICAL SYMBOLS & SPECS

E0.0

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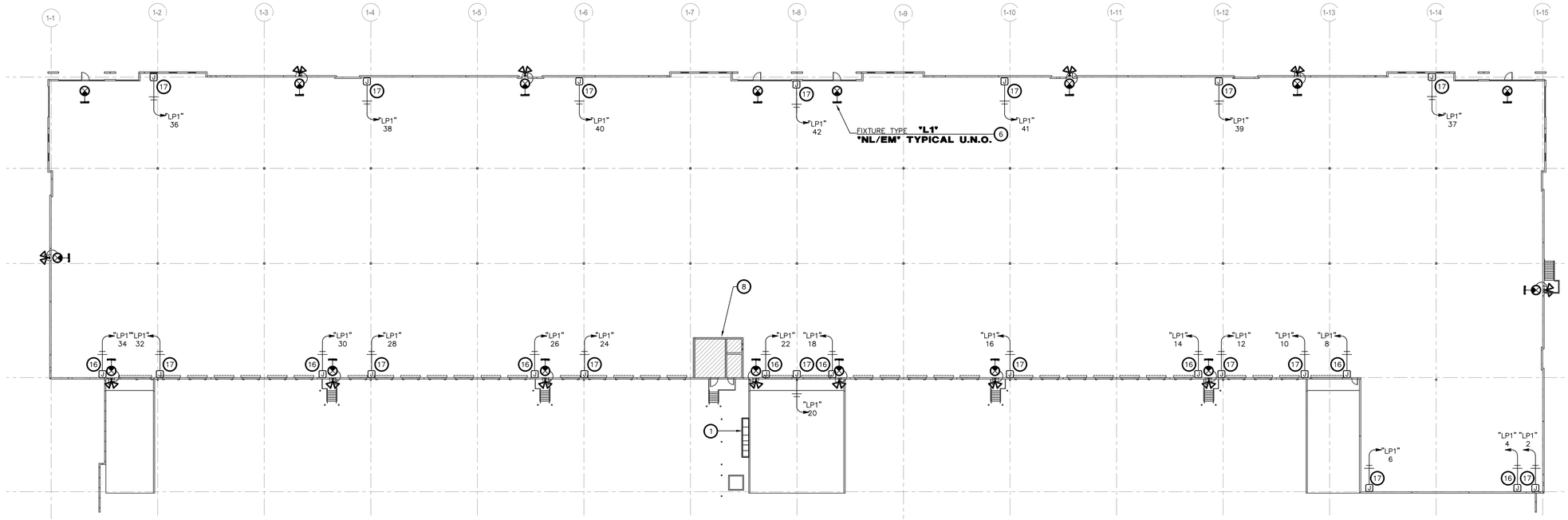
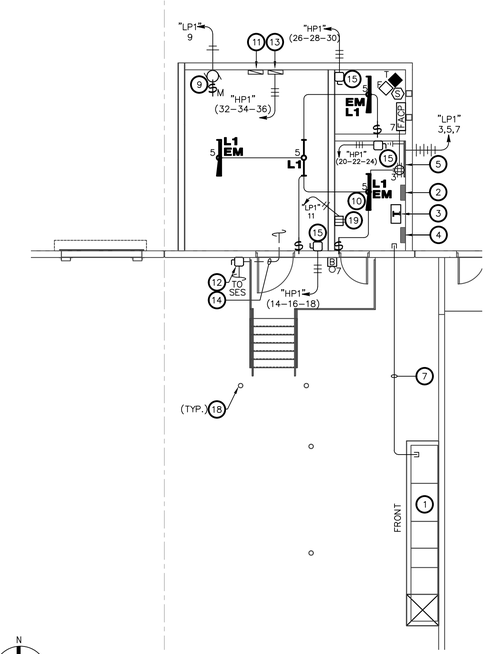


ELECTRICAL PLAN - BUILDING 1

SCALE: 1" = 30'-0"

REFER TO SHEET ES1.0 FOR ADDITIONAL EXTERIOR EGRESS FIXTURE LOCATIONS.



ENLARGED ELECTRICAL & FIRE PUMP ROOM

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

VOLTAGE DROP NOTE:

1. ALL 120V 20A RECEPTACLE CIRCUITS LONGER THAN 125'-0" SHALL BE #10 CU. IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
2. ALL 120V 20A RECEPTACLE CIRCUITS LONGER THAN 160'-0" SHALL BE #8 CU. IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
3. ALL 120V 20A RECEPTACLE CIRCUITS LONGER THAN 240'-0" SHALL BE #6 CU. IN 1" CONDUIT UNLESS NOTED OTHERWISE AND REDUCE TO #8 CU. AT THE CIRCUIT BREAKER.
4. ALL 120V 20A RECEPTACLE CIRCUITS LONGER THAN 370'-0" SHALL BE #4 CU. IN 1" CONDUIT UNLESS NOTED OTHERWISE AND REDUCE TO #8 CU. AT THE CIRCUIT BREAKER.

VOLTAGE DROP NOTE:

1. ALL 277V 20A LIGHTING CIRCUITS LONGER THAN 170'-0" SHALL BE #10 CU. IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
2. ALL 277V 20A LIGHTING CIRCUITS LONGER THAN 260'-0" SHALL BE #8 CU. IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
3. ALL 277V 20A LIGHTING CIRCUITS LONGER THAN 400'-0" SHALL BE #6 CU. IN 1" CONDUIT UNLESS NOTED OTHERWISE AND REDUCE TO #8 CU. AT THE CIRCUIT BREAKER.
4. ALL 277V 20A LIGHTING CIRCUITS LONGER THAN 620'-0" SHALL BE #4 CU. IN 1" CONDUIT UNLESS NOTED OTHERWISE AND REDUCE TO #8 CU. AT THE CIRCUIT BREAKER.

LUMINAIRE SCHEDULE

1. PROVIDE 90-MINUTE EMERGENCY BATTERY BACK-UP FOR ALL EMERGENCY FIXTURES. SEE SCHEDULE BELOW FOR SPECIFICATIONS AND LUMEN REQUIREMENTS.
2. MODULAR WIRING SYSTEM FOR LIGHT FIXTURES IS AN ACCEPTABLE ALTERNATE.
3. BASE BID FOR LUMINAIRES SHALL BE BASED ON MANUFACTURERS LISTED IN CONTRACT DOCUMENTS. UPON AWARD OF PROJECT, ALTERNATES PROPOSED BY CONTRACTOR SHALL BE SUBMITTED WITH WRITTEN OWNER APPROVAL & AN ITEMIZED DEDUCT TO BASE BID.
4. ALTERNATE FIXTURE SELECTIONS MAY REQUIRE ADDITIONAL TIME FOR SUBMITTAL REVIEW & POSSIBLE ENGINEERING DESIGN CHANGES, TO BE BILLED TO THE CONTRACTOR.
5. PROVIDE MINIMUM 10 MINUTE TIME DELAY ON EMERGENCY FIXTURES WHEN HID AREA LIGHTING IS USED.

MARK	MANUFACTURER MODEL NUMBER	VOLTS	LAMPS CRI/CCT INPUT WATTS	REMARKS/MOUNTING
L1	COLUMBIA MPS4-35LW-CW-EDU	MVOLT	LED's -- 25W	4' STRIP LIGHT DROPPED DOWN TO 12'A.F.F. PROVIDE WITH 1400LUMEN BATTERY WHERE NOTED "EM".
	DUAL LITE LES SERIES	MVOLT	INCLUDED <5	EMERGENCY EXIT SIGN WITH 90MINUTE BATTERY BACK UP.
	DUAL LITE PG SERIES	MVOLT	INCLUDED (2LAMPS)	EXTERIOR EMERGENCY FIXTURE WITH 90MINUTE BATTERY BACK UP.

KEYED NOTES

1. ELECTRICAL SERVICE ENTRANCE SECTION "S.E.S".
2. PANEL "HP1". VERIFY PROPER WORKING SPACE PER NEC 110.26.
3. 75KVA STEP DOWN TRANSFORMER. VERIFY PROPER WORKING SPACE PER NEC 110.26.
4. PANEL "LP1". VERIFY PROPER WORKING SPACE PER NEC 110.26.
5. 4'x8'x3/4" PLYWOOD TELEPHONE MOUNTING BOARD "TMB" WITH (1) #6 BOND TO BUILDING GROUNDING ELECTRODE SYSTEM PER NEC ARTICLE 800. EXTEND (2) 2" EMPTY CONDUITS FROM MAIN TMB INTO BUILDING TENANT SPACES. VERIFY EXACT ROUTING AND STUB UP LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN.
6. ELECTRICAL CONTRACTOR SHALL TIE ALL INTERIOR EMERGENCY FIXTURES STRIP LIGHT, EXIT SIGNS AND EXTERIOR EGRESS FIXTURES INTO CIRCUIT "HP1"-1. TYPICAL OF (17) LOCATIONS.
7. (9) 3" (FOR 200AMP CONNECTIONS) & (8) 4" (FOR 400AMP CONNECTIONS) UNDERGROUND EMPTY CONDUITS WITH PULLSTRING FROM SES STUBBED INTO MAIN ELECTRICAL ROOM. COORDINATE EXACT TRENCHING, ROUTING AND POINT OF TERMINATION WITH OWNER. REFER TO SHEET E1.1 FOR ADDITIONAL INFORMATION.
8. REFER TO ENLARGED ROOMS THIS SHEET FOR ADDITIONAL INFORMATION.
9. ROOF MOUNTED EXHAUST FAN - 120V 1ø 3/4HP (13.8FLA). FAN TO BE INTERLOCKED WITH FIRE PUMP. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
10. PROVIDE EMERGENCY BATTERY BACKED UP LIGHT FIXTURE NEAR ELECTRICAL EQUIPMENT WORKING SPACE PER NEC 110.26(D) & 700.16.
11. ELECTRICAL FIRE PUMP CONTROLLER (BY OTHERS) 480V/3ø, 200 H.P., 240 FLA, 1450 LRC. REFER TO ONE-LINE DIAGRAM, E1.1, FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
12. FIRE PUMP SERVICE DISCONNECT SWITCH. REFER TO ONE-LINE DIAGRAM, SHEET E1.1, FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
13. ELECTRICAL JOCKEY PUMP CONTROL PANEL (480V/3ø, 2.0HP, 3.4FLA). PROVIDE (3) #12's Cu., (1) #12 Cu. E.G. - 3/4" C.
14. FEEDER SHALL NOT BE ROUTED THROUGH THE BUILDING. EITHER SURFACE MOUNTED ON THE EXTERIOR OR UNDERGROUND PER NEC 695.
15. UNIT HEATER - 480V 3ø 5.0kW. PROVIDE HEAVY DUTY 30AMP 600V 3P3F NEMA 1 DISCONNECT SWITCH. PROVIDE WITH LINE VOLTAGE THERMOSTAT. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
16. W.P. J.BOX FOR UNIT HEATER CONNECTION - 120V 1ø 11FLA. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
17. W.P. J.BOX FOR HEAT TAPE CONNECTION (10'-0" LONG LOCATED AT EACH ROOF DRAIN AND OVERFLOW) - 120V 1ø 720WATTS EACH. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
18. CONCRETE BOLLARDS INSTALLED FOR PROTECTION OF ELECTRICAL EQUIPMENT. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. CONTRACTOR TO VERIFY PROPER WORKING SPACE IS PROVIDED FOR ELECTRICAL EQUIPMENT PER NEC 110.26.
19. FOR INDOOR SERVICE EQUIPMENT AND EQUIPMENT REQUIRING DEDICATED EQUIPMENT SPACES PER NEC 110.26(E) PROVIDE A 120V, 20A GFCI RECEPTACLE LOCATED WITHIN 25FT OF THE INDOOR EQUIPMENT PER NEC 210.63(B) AND 210.8(E).

DESIGN CODES
IECC: 2021 NEC: 2020

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CONSTRUCTION DOCUMENTS
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ELECTRICAL BUILDING 1 PLAN

E1.0

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NEW PANELBOARD SCHEDULE "HP1"

TYPE: **PANELBOARD** | NEMA TYPE: **NEMA 1** | MAIN TYPE: **M.L.O.**
VOLTAGE: **480Y/277V 3Ø 4W** | AFC: **33,921** | FEED THRU: **YES**
MOUNTING: **SURFACE** | C/B RATING: **FULLY RATED** | ISO. GROUND: **NO**
BUS AMPS: **225** | C/B A.I.C.: **35,000** | SERVICE RATED: **NO**

PROVIDE GFCI CIRCUIT BREAKER (GFCI) | PROVIDE TIE BAR (⊕) | EXIST. TO REMAIN UNCHANGED (□)
HANDLE "LOCK-ON" DEVICE (⊖) | CIRCUIT VIA LTG CONTROLS (◇) | EXIST. WITH CHANGED LOAD (○)
HANDLE "LOCK-OFF" DEVICE (⊘) | EXIST. W/ ALL LOAD REMOVED (◇) | NEW BREAKER WITH NEW LOAD (△)

R = RECEPTS H = H.V.A.C. E = EQUIP. K = KITCHEN M = MISC. L = CONT. LIGHTING C = CONT. EQUIP.

T	AREA SERVED	C/B	#	Aø	Bø	Cø	#	C/B	T	AREA SERVED
L	LIGHTING – INTERIOR/EMs	20/1	1	350	–		2	–/1	–	BUSSED SPACE
◇ L	LIGHTING – NORTH BLDG	20/1	3		1014		4	–/1	–	BUSSED SPACE
◇ L	LIGHTING – SOUTH BLDG	20/1	5			936	6	–/1	–	BUSSED SPACE
–	SPARE	20/1	7	–			8	–/1	–	BUSSED SPACE
–	SPARE	20/1	9		–		10	–/1	–	BUSSED SPACE
–	SPARE	20/1	11			–	12	–/1	–	BUSSED SPACE
–	SPARE	20/1	13	–			14	20/1	E	UNIT HEATER (a)
–	SPARE	20/1	15		–		16	20/1	E	UNIT HEATER (a)
–	SPARE	20/1	17			–	18	3		
–	BUSSED SPACE	–/1	19	–			20	20/1	E	UNIT HEATER (b)
–	BUSSED SPACE	–/1	21		–		22	20/1	E	UNIT HEATER (b)
–	BUSSED SPACE	–/1	23			–	24	3		
–	BUSSED SPACE	–/1	25	–			26	20/1	E	UNIT HEATER (c)
–	BUSSED SPACE	–/1	27		–		28	20/1	E	UNIT HEATER (c)
–	BUSSED SPACE	–/1	29			–	30	3		
–	BUSSED SPACE	–/1	31	–			32	20/1	E	JOCKEY PUMP (2HP)
–	BUSSED SPACE	–/1	33		–		34	20/1	E	JOCKEY PUMP (2HP)
–	BUSSED SPACE	–/1	35			–	36	3		
–	BUSSED SPACE	–/1	37	–			38	100/3	–	PANEL "LP1"
–	BUSSED SPACE	–/1	39		–		40			
–	BUSSED SPACE	–/1	41			–	42	3		
NON-CONTINUOUS LOAD				14563	14439	13353	14563			VA / 277 V = 52.6 AMPS
CONTINUOUS LOAD				350	1014	936	1014			VA / 277 V = 3.7 AMPS
CONTINUOUS LOAD @ 25%				88	254	234	254			VA / 277 V = 0.9 AMPS
TOTAL LOAD PER PHASE				15001	15707	14523	15707			VA / 277 V = 56.7 AMPS

LABEL BRANCH CIRCUIT FEEDING ANY EMERGENCY LIGHTING WITH (EM) PER NEC 700.12(F).

NEW PANELBOARD SCHEDULE "LP1"

TYPE: **PANELBOARD** | NEMA TYPE: **NEMA 1** | MAIN TYPE: **225A M.C.B.**
VOLTAGE: **208Y/120V 3Ø 4W** | AFC: **<10,000** | FEED THRU: **YES**
MOUNTING: **SURFACE** | C/B RATING: **FULLY RATED** | ISO. GROUND: **NO**
BUS AMPS: **225** | C/B A.I.C.: **10,000** | SERVICE RATED: **NO**

PROVIDE GFCI CIRCUIT BREAKER (GFCI) | PROVIDE TIE BAR (⊕) | EXIST. TO REMAIN UNCHANGED (□)
HANDLE "LOCK-ON" DEVICE (⊖) | CIRCUIT VIA LTG CONTROLS (◇) | EXIST. WITH CHANGED LOAD (○)
HANDLE "LOCK-OFF" DEVICE (⊘) | EXIST. W/ ALL LOAD REMOVED (◇) | NEW BREAKER WITH NEW LOAD (△)

R = RECEPTS H = H.V.A.C. E = EQUIP. K = KITCHEN M = MISC. L = CONT. LIGHTING C = CONT. EQUIP.

T	AREA SERVED	C/B	#	Aø	Bø	Cø	#	C/B	T	AREA SERVED
E	IRRIGATION CONTROLLER	20/1	1	100			2	20/1	E	UNIT HEATER (a)
R	ELECTRICAL ROOM TMB	20/1	3		1320		4	20/1	E	HEAT TAPE (a)
L	ELECT./FIRE PUMP LIGHT/EM	20/1	5			360	6	20/1	E	HEAT TAPE (b)
Ⓢ E	FIRE PUMP ROOM FACP/BELL	20/1	7	360		720	8	20/1	E	HEAT TAPE (b)
E	ELECTRICAL ROOM EXHAUST FAN	20/1	9		1320		10	20/1	E	UNIT HEATER (b)
R	MAINTENANCE RECEPT	20/1	11			1176	12	20/1	E	HEAT TAPE (c)
–	SPARE	20/1	13	–		720	14	20/1	E	HEAT TAPE (c)
–	SPARE	20/1	15		–		16	20/1	E	UNIT HEATER (c)
–	SPARE	20/1	17			180	18	20/1	E	UNIT HEATER (d)
–	SPARE	20/1	19	–		720	20	20/1	E	HEAT TAPE (d)
–	BUSSED SPACE	–/1	21		–		22	20/1	E	HEAT TAPE (e)
–	BUSSED SPACE	–/1	23			1320	24	20/1	E	HEAT TAPE (e)
–	BUSSED SPACE	–/1	25	–			26	20/1	E	UNIT HEATER (e)
–	BUSSED SPACE	–/1	27		1320		28	20/1	E	UNIT HEATER (f)
–	BUSSED SPACE	–/1	29			–	30	20/1	E	HEAT TAPE (f)
–	BUSSED SPACE	–/1	31	–		720	32	20/1	E	HEAT TAPE (g)
–	BUSSED SPACE	–/1	33		–		34	20/1	E	UNIT HEATER (g)
–	BUSSED SPACE	–/1	35			1320	36	20/1	E	UNIT HEATER (h)
E	HEAT TAPE (p)	20/1	37	720		720	38	20/1	E	HEAT TAPE (h)
E	HEAT TAPE (o)	20/1	39		720		40	20/1	E	HEAT TAPE (i)
E	HEAT TAPE (n)	20/1	41			720	42	20/1	E	HEAT TAPE (i)
NON-CONTINUOUS LOAD				8620	8496	6960	8620			VA / 120 V = 71.8 AMPS
CONTINUOUS LOAD				0	0	360	360			VA / 120 V = 3.0 AMPS
CONTINUOUS LOAD @ 25%				0	0	90	90			VA / 120 V = 0.8 AMPS
TOTAL LOAD PER PHASE				8620	8496	7410	8620			VA / 120 V = 71.8 AMPS

Ⓢ F.A.C.P. CIRCUIT SHALL HAVE RED IDENTIFICATION AND IDENTIFIED AS FIRE ALARM CIRCUIT PER NEC 760.41(A)&(B)
LABEL BRANCH CIRCUIT FEEDING ANY EMERGENCY LIGHTING WITH (EM) PER NEC 700.12(F).

FAULT CALCULATIONS

The following calculations are based on the "Point-to-Point" method

Three Phase: $f = \frac{\sqrt{3} \times L \times Isc_1}{C \times Vp}$ $M = 1/(1+f)$ $Isc_2 = Isc_1 \times M$

Single Phase: $f = \frac{2 \times L \times Isc_1}{C \times Vp}$ $M = 1/(1+f)$ $Isc_2 = Isc_1 \times M$

Three Phase Xfmr: $f = \frac{\sqrt{3} \times Isc_1 \times Vp \times \%Z}{100{,}000 \times kVA}$ $Isc_2 = \frac{Vp \times M \times Isc_1}{Vs}$

Single Phase Xfmr: $f = \frac{Isc_1 \times Vp \times \%Z}{100{,}000 \times kVA}$ $Isc_2 = \frac{Vp \times M \times Isc_1}{Vs}$

NOTE:
CONDUCTOR LENGTHS SHOWN ARE SHORTEST-PATH FOR USE IN CALCULATIONS ONLY AND ARE NOT INTENDED FOR USE IN BIDDING OR CONSTRUCTION. ACTUAL LENGTHS MUST BE MEASURED & VERIFIED BY THE CONTRACTOR, AND **REPORTED TO ENGINEER** IF DESIGN CHANGES ARE REQUIRED.

f#	SOURCE	Isc_1	C	(SETS) OF WIRE SIZE	TYP.	'C' VALUE	$Vp/(Vs)$	ø	'L' feet	Xfmr kVA	Xfmr %Z	Isc_2
1	SES	46072	NM	(1) OF #3/0's	Cu.	13923	480	3	30	N/A	N/A	33921
2A	F1	33921	N/A	(–) OF N/A	N/A	N/A	480/208	3	N/A	75	4.5	4368

BONDING & GROUND DETAIL

KEY NOTES - GROUNDING DIAGRAM

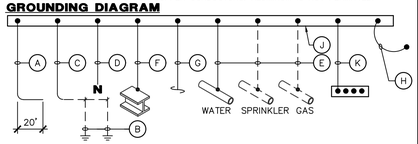
(A) CONCRETE ENCASED ELECTRODE (UFER) (GROUNDING ELECTRODE #1). REFER TO CHART FOR SIZE. MINIMUM 20'.
(B) MINIMUM 10 MIL ANNEALED COPPER CLAD STEEL GROUND ROD. (GROUNDING ELECTRODE #2). REFER TO CHART FOR SIZE. GROUND RODS ARE NOT OPTIONAL, MUST BE INSTALLED.
(C) GROUNDING ELECTRODE CONDUCTOR. REFER TO CHART FOR SIZE.
(D) INTEGRATED (FACTORY BONDED) BUS BAR MAIN BONDING JUMPER. REFER TO CHART FOR MINIMUM CONDUCTOR SIZE. (AMPACITY SHALL BE 150% RATED)
(E) METALLIC PIPING BOND WIRE. REFER TO CHART FOR MINIMUM SIZE. BOND TO ALL METALLIC PIPING (WATER, SPRINKLER, GAS, PNEUMATIC LINES, ETC.) WITHIN THE FIRST ACCESSIBLE 5' OF PIPES ENTRY INTO BUILDING.
(F) BUILDING STEEL BOND WIRE (IF REQUIRED PER BUILDING CONSTRUCTION TYPE). REFER TO CHART FOR MINIMUM SIZE.
(G) BOND WIRE FOR USE WITH MULTIPLE SERVICE's (WHEN PRESENT). REFER TO CHART FOR MINIMUM SIZE.
(H) INTEGRATED (FACTORY BONDED) BUS BAR CASE BOND. REFER TO CHART FOR MINIMUM CONDUCTOR SIZE.
(J) INTEGRATED (FACTORY INSTALLED) GROUND BUS BAR. SHALL BE SIZED TO ACCOMMODATE GROUND WIRE LUGS AS INDICATED ON THE ONE-LINE DIAGRAM.
(K) INTERSYSTEM BONDING TERMINATION BAR AT SERVICE EQUIPMENT, W/ MIN. 3 POINTS OF CONNECTION FOR OTHER SYSTEMS. CONDUCTOR SHALL BE MIN. #6 CU, UNLESS SPECIFIED ELSEWHERE. INSTALL PER NEC 250.94.

CONDUCTOR SIZE CHART

SES AMPACITY	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
1600 AMP	#4	5/8" x 10' (x2)	#4	#300	#3/0	#3/0	#3/0	#300
3000 AMP	#4	5/8" x 10' (x2)	#4	#500	#3/0	#3/0	#3/0	#500

ALL SIZES SHOWN ARE FOR COPPER CONDUCTORS. ALUMINUM IS NOT PERMITTED.

GROUNDING DIAGRAM



GENERAL NOTES - GROUNDING DIAGRAM

1. THIS DETAIL IS PROVIDED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE ARTICLE 250 PERTAINING TO THE "GROUNDING ELECTRODE SYSTEM".
2. SPLICING OF CONDUCTORS SHALL BE ACCOMPLISHED VIA EXOTHERMIC WELD (CAD WELD) ONLY.
3. ALL CONNECTIONS TO GROUND RODS BELOW GRADE OR IN CONCRETE SHALL BE MADE VIA EXOTHERMIC WELD (CAD WELD) ONLY. CONNECTIONS MADE ABOVE GROUND LEVEL CAN BE ACCOMPLISHED UTILIZING A U.L. LISTED MECHANICAL CLAMP SUITABLE FOR THE PURPOSE.
4. ANY VARIANCE FROM THIS DRAWING AND/OR SPECIFICATION MUST BE REQUESTED AND APPROVED IN WRITING PRIOR TO INSTALLATION.
5. ALL INSTALLATIONS SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF ARTICLE 250 (ALL SUBPARAGRAPHS) OF THE NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL CODE REQUIREMENTS.
6. THE GROUNDING SYSTEM SHALL PROVIDE NO GREATER THAN (5) FIVE OHMS RESISTANCE TO GROUND AT THE SERVICE CONNECTION. THE RESULTS SHALL BE VERIFIED BY AN INDEPENDENT TESTING AGENCY VIA GROUND TEST (FALL-OF-POTENTIAL) AND SUBMITTED IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS CONTAINED HEREIN.
7. THE GROUNDING ELECTRODE SYSTEM SHALL CONSIST OF GROUNDING ELECTRODES, ITEMS A (CONCRETE-ENCASED ELECTRODE (A.K.A. UFER), AND GROUND ROD(S) ITEM B. METAL UNDERGROUND WATER PIPE WITH 10' IN CONTACT WITH EARTH, AS DEFINED IN NEC 250.52(A)(3) AND METAL IN-GROUND SUPPORT STRUCTURE IN CONTACT WITH EARTH AS DEFINED IN 2017 NEC 250.52(A)(2) SHALL BE BONDED WITH ITEMS A & B AS PART OF THE GROUNDING ELECTRODE SYSTEM.
8. GROUNDING ELECTRODE CONDUCTORS - ITEMS: A AND C, ((F) CONNECTION TO METAL FRAME AND (E) CONNECTION TO UNDERGROUND WATER PIPE, WHEN CONSIDERED A GROUNDING ELECTRODE) SHALL EACH BE MADE IN SEPARATE CONDUCTORS AND SUITABLY PROTECTED BY CONDUIT WHERE EXPOSED TO DAMAGE OR THEFT. CONDUITS THAT ARE NOT CONTINOUS FROM GROUNDING ELECTRODE TO CABINET/ENCLOSURE SHALL BE BONDED TO THE GEC PER NEC 250.64(E).
9. EXPOSED STRUCTURAL METAL AND METAL PIPING (NOT CONSIDERED A GROUNDING ELECTRODE) SHALL BE BONDED TO THE GROUNDING ELECTRODE SYSTEM AS INDICATED ON DETAIL, CONNECTIONS E AND F, IN ACCORDANCE WITH BONDING REQUIREMENT IN ARTICLE 250 PART V.

KEYED NOTES

1. UNDERGROUND PRIMARY CONDUITS TO UTILITY COMPANY PAD MOUNTED TRANSFORMER. COORDINATE EXACT QUANTITY AND SIZE WITH UTILITY CO.
2. UTILITY PAD MOUNTED TRANSFORMER.
3. (19) 4" UNDERGROUND SECONDARY CONDUITS TO UTILITY COMPANY PAD MOUNTED TRANSFORMER.
4. REFER TO SES BONDING AND GROUNDING DETAIL THIS SHEET FOR ADDITIONAL INFORMATION.
5. GROUND FAULT PROTECTION (GFP) DEVICE. ELECTRICAL CONTRACTOR SHALL PROVIDE GFP SETTING BASED ON DEVICE COORDINATION STUDY AS NOTED IN ELECTRICAL SPECIFICATIONS SECTION 6.11 "PROTECTIVE DEVICE COORDINATION STUDY.
6. 200AMP TENANT METER.
7. (5) SPARE 200AMP TENANT METERS.
8. (3) 200AMP FUSES IN 200AMP PULLOUT. TYPICAL OF (6).
9. PROVIDE (1) 3" (FOR 200AMP CONNECTION) (UPSIZED FOR POTENTIAL VOLTAGE DROP) UNDERGROUND EMPTY CONDUITS WITH PULLSTRING FOR FUTURE POWER STUBBED OUT OF SES AND INTO BUILDING SPACE PAST ELECTRICAL ROOM. COORDINATE EXACT TRENCHING, ROUTING AND POINT OF TERMINATION WITH OWNER.
10. PROVIDE (2) 4" (FOR 400AMP CONNECTION) (UPSIZED FOR POTENTIAL VOLTAGE DROP) UNDERGROUND EMPTY CONDUITS WITH PULLSTRING FOR FUTURE POWER STUBBED OUT OF SES, INTO THE AUXILARY SECTION AND THEN OUT OF AUXILIARY SECTION RAN INTO BUILDING SPACE PAST OWNER'S ROOM. COORDINATE EXACT TRENCHING, ROUTING AND POINT OF TERMINATION WITH OWNER.
11. FIRE PUMP MOTOR – CONTRACTOR TO VERIFY FIRE PUMP CONDUCTOR SIZES PER MOTOR MANUFACTURER.
12. SERVICE CONDUCTORS FOR FIRE PUMP SHALL BE IN SCHEDULE 40 WITH RIGID RISER AND ROUTED OUTSIDE OF BUILDING PER NEC 695.
13. (4) #3/0's Cu., (1) #6 Cu. E.G. – 2" C.
14. (3) #1's Cu., (1) #6 Cu. E.G. – 1 1/2" C.
15. 75KVA STEP-DOWN TRANSFORMER 480V, 3ø PRIMARY – 208Y/120V., 3ø, 4W SECONDARY, NEMA 3R 4.5%Z.
16. (4) #4/0's Cu., (1) #2 Cu. E.G. – 2 1/2" C.
17. PROVIDE CONTROLLER EQUIPPED WITH SURGE PROTECTION PER NEC 695.15.
18. REFER TO SES BONDING AND GROUNDING DETAIL THIS SHEET FOR ADDITIONAL INFORMATION. GROUNDING SYMBOL INDICATES REMOTE SERVICE DISCONNECT SWITCH IS BONDED TO BUILDING GROUNDING ELECTRODE SYSTEM AT SES VIA SUPPLY-SIDE BONDING JUMPER.
19. PROVIDE 600V., 1600A, 3P WITH (3) 1600A CLASS 'L' FUSES, BRACED AT 100,000AIC, NEMA 3R SERVICE RATED DISCONNECT SWITCH TO BE SUITABLY REMOTE AND LOCKABLE IN THE CLOSED POSITION. PROVIDE MAIN BONDING JUMPER. SEE ITEM "D" IN BONDING AND GROUNDING DETAIL THIS SHEET. PROVIDE LABEL ON DISCONNECT SWITCH PER NEC 230.7(B) READING "SERVICE DISCONNECT 2 OF 2. ADDITIONAL SERVICE DISCONNECT LOCATED AT SES".
20. (4) #350 kCMIL Cu_2(SERVICE CONDUCTORS), (1) #2 Cu. SUPPLY-SIDE EQUIPMENT BONDING JUMPER (PER NEC 250.64(D)(3), 250.92(A) & TABLE 250.66) IN 2 1/2"C.
21. (3) #350 kCMIL Cu., (1) #4/0 kCMIL Cu. E.G. – 3" C. E.G. SIZED BASED ON 1600A OCPD PER NEC TABLE 250.122.
22. PROVIDE SEPERATE SECTION FOR FIRE PUMP TAP CONNECTION. PROVIDE PLAQUE ON SECTION STATING "FIRE PUMP TAP CONNECTION LOCATED BEHIND COVER. SERVICE DISCONNECTING MEANS 2 OF 2 LOCATED OUTSIDE OF FIRE PUMP ROOM."
23. PROVIDE LABEL ON DISCONNECT SWITCH PER NEC 230.7(B) READING "SERVICE DISCONNECT 1 OF 2. ADDITIONAL SERVICE DISCONNECT LOCATED AT SES."

GENERAL NOTES - ONE-LINE

1. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS TO FULLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS PRIOR TO BID. NO ADDITIONAL CONSIDERATIONS WILL BE ALLOWED AFTER THE BID.
2. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL INDICATED EQUIPMENT TO CODE COMPLIANT CLEARANCES. PROVIDE SUBMITTALS AS INDICATED IN SPECIFICATIONS TO PROPERLY COORDINATE PHYSICAL LOCATIONS OF NEW AND/OR EXISTING EQUIPMENT.
3. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND COMPLETE CONTRACTUAL OBLIGATIONS.
4. ALL DASHED LINES ARE INDICATING EXISTING EQUIPMENT.
5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT DIRECTORY OR CIRCUIT IDENTIFICATION FOR PANELBOARDS AND SOURCE OF SUPPLY FOR SWITCHBOARDS AND PANELBOARDS SUPPLIED BY A FEEDER IN OTHER THAN ONE- TWO-FAMILY DWELLINGS IN ACCORDANCE WITH NEC 408.4(A)&(B).
6. WHERE A RACEWAY ENTERS A BUILDING OR STRUCTURE FROM AN UNDERGROUND DISTRIBUTION SYSTEM, ELECTRICAL CONTRACTOR SHALL PROVIDE RACEWAY SEALS PER NEC 225.27.
7. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FOR AND COORDINATE ALL TESTING AND INSPECTIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION, AND SHALL PROVIDE WRITTEN REPORTS TO THE ENGINEER OF ALL TEST RESULTS AND INSPECTION REPORTS FOR THIS DISCIPLINE.
8. WHERE SPECIAL INSPECTION/OBERVATION IS REQUIRED, QUALIFIED 3RD PARTY INDIVIDUALS ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION SHALL WORK DIRECTLY FOR THE OWNER TO PERFORM ALL REQUIRED TESTING & INSPECTION.
9. UPON SUBSTANTIAL COMPLETION, THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL ALLOW, AT THE ENGINEERS DISCRETION, FOR THE INSPECTION OF NEW WORK PRIOR TO ENERGIZING.
10. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ARC-FLASH HAZARD WARNING FIELD LABELING TO ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC 110.16.
11. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MAXIMUM AVAILABLE FAULT CURRENT FIELD LABELING TO SERVICE EQUIPMENT INSTALLED IN OTHER THAN DWELLING UNITS IN ACCORDANCE WITH NEC 110.24.
12. GFP MUST BE ON-SITE TESTED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. ELECTRICAL CONTRACTOR SHALL PROVIDE COPY OF MANUFACTURER'S INSTRUCTIONS AND TEST RESULTS TO AUTHORITY HAVING JURISDICTION.
13. ALL EQUIPMENT RATED @ 1000 AMPS OR MORE SHALL BE TESTED IN CONFORMANCE WITH UL STANDARD 869 OR 891 FOR INSULATION BREAKDOWN PRIOR TO ITS BEING ENERGIZED. THIS TEST SHALL BE PERFORMED BY A TESTING FACILITY APPROVED BY THE BUILDING OFFICIAL. (SEE SECTION 4.6 OF ELECTRICAL SYSTEM SPECIFICATIONS)
14. ALL UNDERGROUND CONDUITS ENTERING BUILDING/STRUCTURE FROM OUTSIDE SHALL BE SEALED PER NEC 225.27

SES LOAD SUMMARY

TOTAL BUILDING SQUARE FOOTAGE = 130950 S.F.

FUTURE LIGHTING (1VA PER S.F.)	=	130950VA
FUTURE POWER (5VA PER S.F.)	=	654750VA
FUTURE HVAC (5VA PER S.F.)	=	654750VA
FUTURE MISC. (5VA PER S.F.)	=	654750VA
CONNECTED LOAD ON PANEL "HP1"	=	45231VA
200HP FIRE PUMP (@240FLA)	=	199440VA
TOTAL ESTIMATED LOAD ON S.E.S.	=	2339871VA
TOTAL ESTIMATED LOAD ON S.E.S. @ 480V 3ø	=	2815.8A

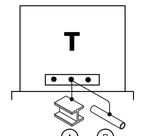
TRANSFORMER GROUND DETAIL

GROUND SIZE CHART

SEE NOTE 6 FOR GEC SIZING.

TRANSFORMER SIZE (kVA)	GEC SIZE (Cu.)
* 75kVA	#2

GROUNDING DIAGRAM



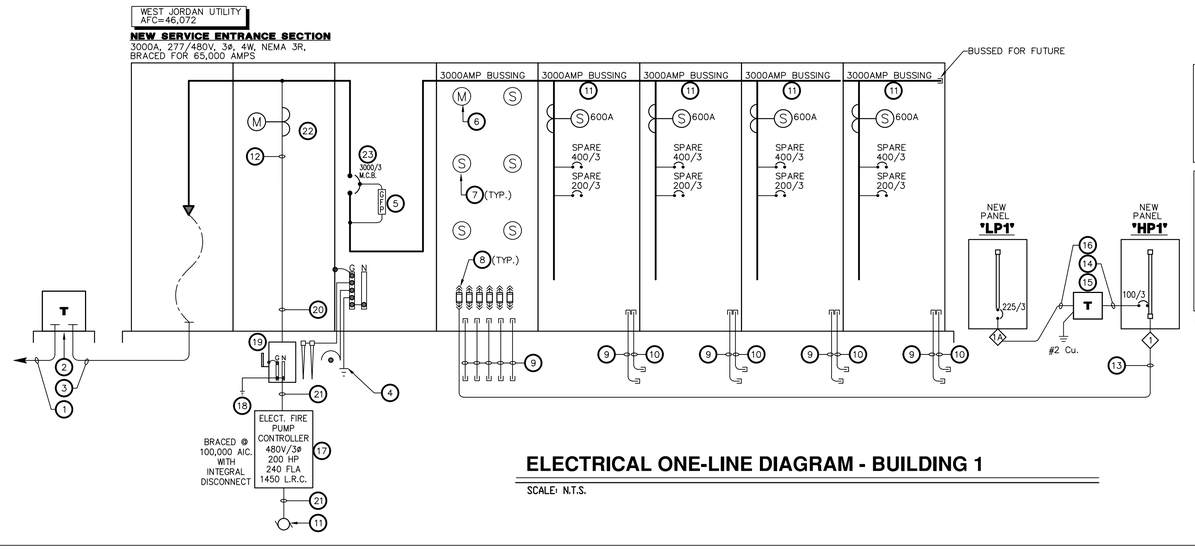
KEY NOTES - GROUNDING DIAGRAM

WHEN PRESENT AT BUILDING OR STRUCTURE, THE NEAREST OF ONE OF THE FOLLOWING GROUNDING ELECTRODES, AS DEFINED BY 250.52(A)(1),(2), SHALL BE USED AS THE TRANSFORMER GROUND. SEE NOTE 5. BELOW FOR BONDING NOTE. (ADDITIONAL TO GROUNDING REQUIREMENTS OF SEPARATELY DERIVED SYSTEM PER NEC 250.30)

(A) METAL FRAME OF BUILDING OR STRUCTURE. REFER TO CHART FOR MINIMUM GROUNDING ELECTRODE CONDUCTOR SIZE.
(B) METAL UNDERGROUND WATER PIPE. REFER TO CHART FOR MINIMUM GROUNDING ELECTRODE CONDUCTOR SIZE.

GENERAL NOTES - GROUNDING DIAGRAM

1. ANY OF THE OTHER ELECTRODES IDENTIFIED IN NEC 250.52(A) SHALL BE USED IF THE ELECTRODES SPECIFIED ABOVE ARE NOT AVAILABLE.
2. THIS DETAIL IS PROVIDED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE ARTICLES 250 AND 450 PERTAINING TO THE "GROUNDING ELECTRODE SYSTEM".
3. ANY VARIANCE FROM THIS DRAWING AND/OR SPECIFICATION MUST BE REQUESTED AND APPROVED IN WRITING PRIOR TO INSTALLATION.
4. ALL INSTALLATIONS SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF ARTICLE 250 AND 450 (ALL SUBPARAGRAPHS) OF THE NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL CODE REQUIREMENTS.
5. WHEN ITEMS A AND B ABOVE CANNOT BE USED AS A GROUNDING ELECTRODE, PROVIDE BONDING OF SEPARATELY DERIVED SYSTEMS TO PIPING SYSTEMS AND EXPOSED STRUCTURAL STEEL PER NEC 250.104 IN ADDITION TO GROUNDING REQUIREMENTS.
6. GEC SIZED PER NEC 250.66 BASED ON SECONDARY CONDUCTORS OF TRANSFORMER (SEPARATELY DERIVED SYSTEM 250.30)



ELECTRICAL ONE-LINE DIAGRAM - BUILDING 1

SCALE: N.T.S.

PER NEC 2020 240.67 & 240.87, ELECTRICAL CONTRACTOR SHALL COORDINATE A METHOD TO REDUCE CLEARING TIME FOR ARC ENERGY REDUCTION WITH MANUFACTURER FOR ANY FUSE OR CIRCUIT BREAKER RATED 1200A OR HIGHER. REFER TO NEC 240.67(B) & 240.87(B) FOR APPROVED METHODS.

PER NEC 2020 110.16(B), ELECTRICAL CONTRACTOR SHALL VERIFY THAT A PERMANENT LABEL HAS BEEN FIELD OR FACTORY APPLIED TO SERVICE EQUIPMENT RATED 1200 AMPS OR MORE. LABEL SHALL MEET THE REQUIREMENTS OF 110.21(B) AND CONTAIN THE FOLLOWING INFORMATION:
1. **NOMINAL VOLTAGE**
2. **AVAILABLE FAULT CURRENT AT THE SERVICE OVERCURRENT PROTECTIVE DEVICES.**
3. **THE CLEARING TIME OF SERVICE OVERCURRENT PROTECTIVE DEVICES BASED ON THE AVAILABLE FAULT CURRENT AT THE SERVICE EQUIPMENT.**
4. **THE DATE LABEL WAS APPLIED.**

NOTES: 1. ITEM #3 SHALL BE VERIFIED BY OCPD MANUFACTURER.
2. THIS LABEL IS NOT REQUIRED IF AN ARC FLASH STUDY IS PROVIDED AND EQUIPMENT HAS ARC FLASH LABEL APPLIED IN ACCORDANCE WITH ACCEPTABLE INDUSTRY PRACTICE. (REFER TO 110.16(B) FOR THIS EXCEPTION.)

DESIGN CODES
IECC: 2021 NEC: 2020

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REGISTERED PROFESSIONAL ENGINEER
No 9441757-2200
ARMANDO GARCIA
ELECTRICAL
STATE OF ARIZONA

SEALED 2-26-2026

Notice of Extended Payment Provision
This contract allows the owner to make payment within 16 days after certification and approval of billings and estimates for progress payments, within 16 days after certification and approval of billings and estimates for release of retention and within 16 days after certification and approval of billings and estimates for final payment.

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CONSTRUCTION DOCUMENTS
02/26/26
REVISIONS

BUILDING 1
ELECTRICAL
ONE-LINE
DIAGRAM
E1.1

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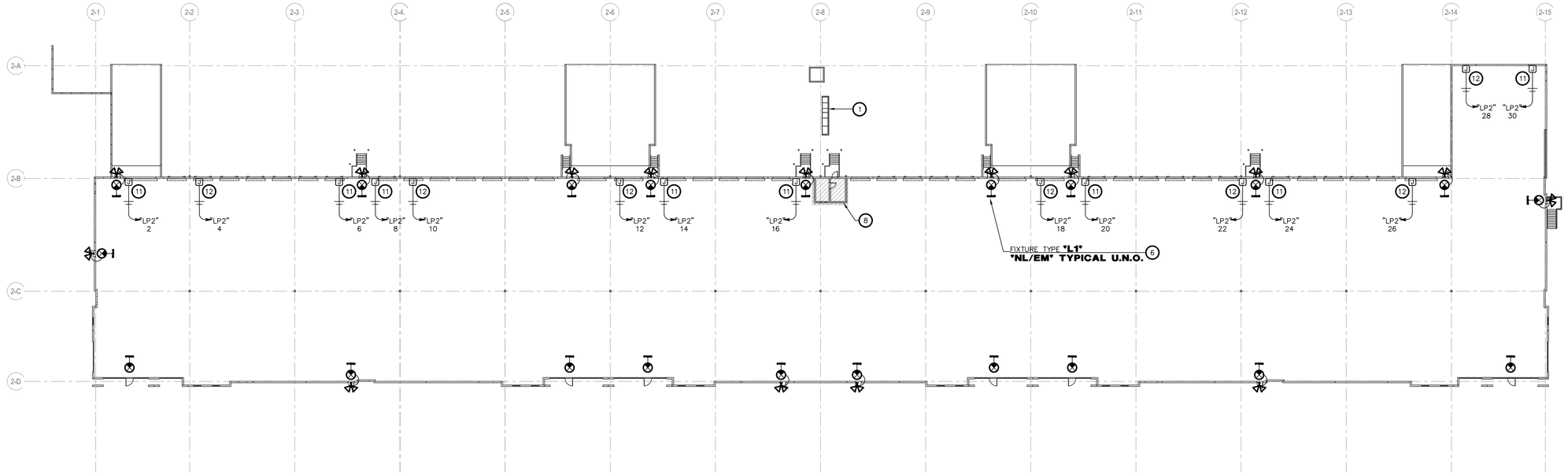
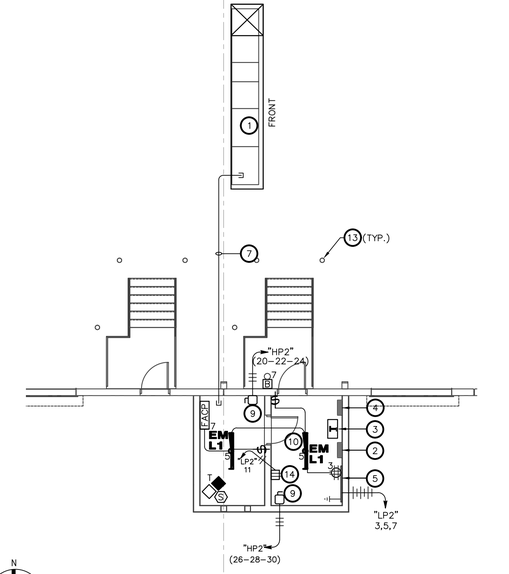


ELECTRICAL PLAN - BUILDING 2

SCALE: 1" = 30'-0"

REFER TO SHEET ES1.0 FOR ADDITIONAL EXTERIOR EGRESS FIXTURE LOCATIONS.



ENLARGED ELECTRICAL ROOM

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

VOLTAGE DROP NOTE:

1. ALL 120V 20A RECEPTACLE CIRCUITS LONGER THAN 125'-0" SHALL BE #10 CU. IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
2. ALL 120V 20A RECEPTACLE CIRCUITS LONGER THAN 160'-0" SHALL BE #8 CU. IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
3. ALL 120V 20A RECEPTACLE CIRCUITS LONGER THAN 240'-0" SHALL BE #6 CU. IN 1" CONDUIT UNLESS NOTED OTHERWISE AND REDUCE TO #8 CU. AT THE CIRCUIT BREAKER.
4. ALL 120V 20A RECEPTACLE CIRCUITS LONGER THAN 370'-0" SHALL BE #4 CU. IN 1" CONDUIT UNLESS NOTED OTHERWISE AND REDUCE TO #8 CU. AT THE CIRCUIT BREAKER.

VOLTAGE DROP NOTE:

1. ALL 277V 20A LIGHTING CIRCUITS LONGER THAN 170'-0" SHALL BE #10 CU. IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
2. ALL 277V 20A LIGHTING CIRCUITS LONGER THAN 260'-0" SHALL BE #8 CU. IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
3. ALL 277V 20A LIGHTING CIRCUITS LONGER THAN 400'-0" SHALL BE #6 CU. IN 1" CONDUIT UNLESS NOTED OTHERWISE AND REDUCE TO #8 CU. AT THE CIRCUIT BREAKER.
4. ALL 277V 20A LIGHTING CIRCUITS LONGER THAN 620'-0" SHALL BE #4 CU. IN 1" CONDUIT UNLESS NOTED OTHERWISE AND REDUCE TO #8 CU. AT THE CIRCUIT BREAKER.

LUMINAIRE SCHEDULE

1. PROVIDE 90-MINUTE EMERGENCY BATTERY BACK-UP FOR ALL EMERGENCY FIXTURES. SEE SCHEDULE BELOW FOR SPECIFICATIONS AND LUMEN REQUIREMENTS.
2. MODULAR WIRING SYSTEM FOR LIGHT FIXTURES IS AN ACCEPTABLE ALTERNATE.
3. BASE BID FOR LUMINAIRES SHALL BE BASED ON MANUFACTURERS LISTED IN CONTRACT DOCUMENTS. UPON AWARD OF PROJECT, ALTERNATES PROPOSED BY CONTRACTOR SHALL BE SUBMITTED WITH WRITTEN OWNER APPROVAL & AN ITEMIZED DEDUCT TO BASE BID.
4. ALTERNATE FIXTURE SELECTIONS MAY REQUIRE ADDITIONAL TIME FOR SUBMITTAL REVIEW & POSSIBLE ENGINEERING DESIGN CHANGES, TO BE BILLED TO THE CONTRACTOR.
5. PROVIDE MINIMUM 10 MINUTE TIME DELAY ON EMERGENCY FIXTURES WHEN HID AREA LIGHTING IS USED.

MARK	MANUFACTURER MODEL NUMBER	VOLTS	LAMPS CRI/CCT INPUT WATTS	REMARKS/MOUNTING
L1	COLUMBIA MPS4-35LW-CW-EDU	MVOLT	LED's - 25W	4' STRIP LIGHT DROPPED DOWN TO 12'A.F.F. PROVIDE WITH 1400LUMEN BATTERY WHERE NOTED "EM".
⊗	DUAL LITE LES SERIES	MVOLT	INCLUDED <5	EMERGENCY EXIT SIGN WITH 90MINUTE BATTERY BACK UP.
⊕	DUAL LITE PG SERIES	MVOLT	INCLUDED (2LAMPS)	EXTERIOR EMERGENCY FIXTURE WITH 90MINUTE BATTERY BACK UP.

KEYED NOTES

1. ELECTRICAL SERVICE ENTRANCE SECTION "S.E.S".
2. PANEL "HP2". VERIFY PROPER WORKING SPACE PER NEC 110.26.
3. 75KVA STEP DOWN TRANSFORMER. VERIFY PROPER WORKING SPACE PER NEC 110.26.
4. PANEL "LP2". VERIFY PROPER WORKING SPACE PER NEC 110.26.
5. 4'x8'x3/4" PLYWOOD TELEPHONE MOUNTING BOARD "TMB" WITH (1) #6 BOND TO BUILDING GROUNDING ELECTRODE SYSTEM PER NEC ARTICLE 800. EXTEND (2) 2" EMPTY CONDUITS FROM MAIN TMB INTO BUILDING TENANT SPACES. VERIFY EXACT ROUTING AND STUB UP LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN.
6. ELECTRICAL CONTRACTOR SHALL TIE ALL INTERIOR EMERGENCY FIXTURES STRIP LIGHT, EXIT SIGNS AND EXTERIOR EGRESS FIXTURES INTO CIRCUIT "HP2"-1. TYPICAL OF (21) LOCATIONS.
7. (9) 3" (FOR 200AMP CONNECTIONS) & (8) 4" (FOR 400AMP CONNECTIONS) UNDERGROUND EMPTY CONDUITS WITH PULLSTRING FROM SES STUBBED INTO MAIN ELECTRICAL ROOM. COORDINATE EXACT TRENCHING, ROUTING AND POINT OF TERMINATION WITH OWNER. REFER TO SHEET E2.1 FOR ADDITIONAL INFORMATION.
8. REFER TO ENLARGED ROOMS THIS SHEET FOR ADDITIONAL INFORMATION.
9. UNIT HEATER - 480V 3ø 5.0kW. PROVIDE HEAVY DUTY 30AMP 600V 3P3F NEMA 1 DISCONNECT SWITCH. PROVIDE WITH LINE VOLTAGE THERMOSTAT. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
10. PROVIDE EMERGENCY BATTERY BACKED UP LIGHT FIXTURE NEAR ELECTRICAL EQUIPMENT WORKING SPACE PER NEC 110.26(D) & 700.16.
11. W.P. J.BOX FOR UNIT HEATER CONNECTION - 120V 1ø 11FLA. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
12. W.P. J.BOX FOR HEAT TAPE CONNECTION (10'-0" LONG LOCATED AT EACH ROOF DRAIN AND OVERFLOW) - 120V 1ø 720WATTS EACH. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
13. CONCRETE BOLLARDS INSTALLED FOR PROTECTION OF ELECTRICAL EQUIPMENT. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. CONTRACTOR TO VERIFY PROPER WORKING SPACE IS PROVIDED FOR ELECTRICAL EQUIPMENT PER NEC 110.26.
14. FOR INDOOR SERVICE EQUIPMENT AND EQUIPMENT REQUIRING DEDICATED EQUIPMENT SPACES PER NEC 110.26(E) PROVIDE A 120V, 20A GFCI RECEPTACLE LOCATED WITHIN 25FT OF THE INDOOR EQUIPMENT PER NEC 210.63(B) AND 210.8(E).

DESIGN CODES
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SEALED 2-26-2026

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CONSTRUCTION DOCUMENTS
02/26/26
REVISIONS

ELECTRICAL BUILDING 2 PLAN

E2.0

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NEW PANELBOARD SCHEDULE "HP2"

TYPE: **PANELBOARD** | VOLTAGE: **480Y/277V 3Ø 4W** | MOUNTING: **SURFACE** | BUS AMPS: **225**
NEMA TYPE: **NEMA 1** | AFC: **33,921** | C/B RATING: **FULLY RATED** | C/B A.I.C.: **35,000**
MAIN TYPE: **M.L.O.** | FEED THRU: **YES** | ISO. GROUND: **NO** | SERVICE RATED: **NO**

PROVIDE GFCI CIRCUIT BREAKER ⊛ | PROVIDE TIE BAR ⊕ | EXIST. TO REMAIN UNCHANGED □
HANDLE "LOCK-ON" DEVICE ⊖ | CIRCUIT VIA LTG CONTROLS ◇ | EXIST. WITH CHANGED LOAD ○
HANDLE "LOCK-OFF" DEVICE ⊘ | EXIST. W/ ALL LOAD REMOVED ◇ | NEW BREAKER WITH NEW LOAD △

R = RECEPTS H = H.V.A.C. E = EQUIP. K = KITCHEN M = MISC. L = CONT. LIGHTING C = CONT. EQUIP.

T	AREA SERVED	C/B	#	AØ	BØ	CØ	#	C/B	T	AREA SERVED
L	LIGHTING – INTERIOR/EMs	20 / 1	1	350	–		2	– / 1		– BUSSED SPACE
◇ L	LIGHTING – NORTH BLDG	20 / 1	3			936	4	– / 1		– BUSSED SPACE
◇ L	LIGHTING – SOUTH BLDG	20 / 1	5		858	–	6	– / 1		– BUSSED SPACE
	– SPARE	20 / 1	7	–			8	– / 1		– BUSSED SPACE
	– SPARE	20 / 1	9		–		10	– / 1		– BUSSED SPACE
	– SPARE	20 / 1	11	–		–	12	– / 1		– BUSSED SPACE
	– SPARE	20 / 1	13	–	–		14	– / 1		– BUSSED SPACE
	– SPARE	20 / 1	15		–	–	16	– / 1		– BUSSED SPACE
	– SPARE	20 / 1	17	–		–	18	– / 1		– BUSSED SPACE
	– BUSSED SPACE	– / 1	19	–			20			
	– BUSSED SPACE	– / 1	21		–		22		E	UNIT HEATER (a)
	– BUSSED SPACE	– / 1	23	–		–	24	3		
	– BUSSED SPACE	– / 1	25	–			26			
	– BUSSED SPACE	– / 1	27		–		28		E	UNIT HEATER (b)
	– BUSSED SPACE	– / 1	29	–		–	30	3		
	– BUSSED SPACE	– / 1	31	–			32			
	– BUSSED SPACE	– / 1	33		–		34		E	JOCKEY PUMP (2HP)
	– BUSSED SPACE	– / 1	35	–		–	36	3		
	– BUSSED SPACE	– / 1	37	–			38			
	– BUSSED SPACE	– / 1	39		–		40			– PANEL "LP2"
	– BUSSED SPACE	– / 1	41	–		–	42	3		
NON-CONTINUOUS LOAD				10736	10012	10126		10736	VA / 277 V = 38.8 AMPS	
CONTINUOUS LOAD				350	936	858		936	VA / 277 V = 3.4 AMPS	
CONTINUOUS LOAD @ 25%				88	234	215		234	VA / 277 V = 0.8 AMPS	
TOTAL LOAD PER PHASE				11174	11182	11199		11199	VA / 277 V = 40.4 AMPS	

LABEL BRANCH CIRCUIT FEEDING ANY EMERGENCY LIGHTING WITH (EM) PER NEC 700.12(F).

NEW PANELBOARD SCHEDULE "LP2"

TYPE: **PANELBOARD** | VOLTAGE: **208Y/120V 3Ø 4W** | MOUNTING: **SURFACE** | BUS AMPS: **225**
NEMA TYPE: **NEMA 1** | AFC: **<10,000** | C/B RATING: **FULLY RATED** | C/B A.I.C.: **10,000**
MAIN TYPE: **225A M.C.B.** | FEED THRU: **YES** | ISO. GROUND: **NO** | SERVICE RATED: **NO**

PROVIDE GFCI CIRCUIT BREAKER ⊛ | PROVIDE TIE BAR ⊕ | EXIST. TO REMAIN UNCHANGED □
HANDLE "LOCK-ON" DEVICE ⊖ | CIRCUIT VIA LTG CONTROLS ◇ | EXIST. WITH CHANGED LOAD ○
HANDLE "LOCK-OFF" DEVICE ⊘ | EXIST. W/ ALL LOAD REMOVED ◇ | NEW BREAKER WITH NEW LOAD △

R = RECEPTS H = H.V.A.C. E = EQUIP. K = KITCHEN M = MISC. L = CONT. LIGHTING C = CONT. EQUIP.

T	AREA SERVED	C/B	#	AØ	BØ	CØ	#	C/B	T	AREA SERVED
E	IRRIGATION CONTROLLER	20 / 1	1	100			2			
R	ELECTRICAL ROOM TMB	20 / 1	3		1320	360	4		E	HEAT TAPE (a)
L	ELECT./FIRE PUMP LIGHT/EM	20 / 1	5			720	6			
Ⓢ E	FIRE PUMP ROOM FACP/BELL	20 / 1	7	360		360	8		E	UNIT HEATER (b)
E	ELECTRICAL ROOM EXHAUST FAN	20 / 1	9	1320		1320	10		E	UNIT HEATER (c)
R	MAINTENANCE RECEPT	20 / 1	11		1176		12		E	HEAT TAPE (b)
	– SPARE	20 / 1	13	–	720	–	14		E	HEAT TAPE (c)
	– SPARE	20 / 1	15	1320		180	16		E	UNIT HEATER (d)
	– SPARE	20 / 1	17		–	720	18		E	UNIT HEATER (e)
	– SPARE	20 / 1	19	–	1320		20		E	HEAT TAPE (d)
	– BUSSED SPACE	– / 1	21	1320		–	22		E	UNIT HEATER (f)
	– BUSSED SPACE	– / 1	23		720		24		E	HEAT TAPE (e)
	– BUSSED SPACE	– / 1	25	–		1320	26		E	UNIT HEATER (g)
	– BUSSED SPACE	– / 1	27	720	–		28		E	HEAT TAPE (f)
	– BUSSED SPACE	– / 1	29		720	–	30		E	HEAT TAPE (g)
	– BUSSED SPACE	– / 1	31	–		1320	32		E	UNIT HEATER (h)
	– BUSSED SPACE	– / 1	33	–	–		34	1	–	BUSSED SPACE
	– BUSSED SPACE	– / 1	35		–	–	36	1	–	BUSSED SPACE
	– BUSSED SPACE	– / 1	37	–		–	38	1	–	BUSSED SPACE
	– BUSSED SPACE	– / 1	39		–		40	1	–	BUSSED SPACE
	– BUSSED SPACE	– / 1	41	–		–	42	1	–	BUSSED SPACE
NON-CONTINUOUS LOAD				6460	5736	5400		6460	VA / 120 V = 53.8 AMPS	
CONTINUOUS LOAD				0	0	360		360	VA / 120 V = 3.0 AMPS	
CONTINUOUS LOAD @ 25%				0	0	90		90	VA / 120 V = 0.8 AMPS	
TOTAL LOAD PER PHASE				6460	5736	5850		6460	VA / 120 V = 53.8 AMPS	

Ⓢ F.A.C.P. CIRCUIT SHALL HAVE RED IDENTIFICATION AND IDENTIFIED AS FIRE ALARM CIRCUIT PER NEC 760.41(A)&(B)
LABEL BRANCH CIRCUIT FEEDING ANY EMERGENCY LIGHTING WITH (EM) PER NEC 700.12(F).

FAULT CALCULATIONS

The following calculations are based on the "Point-to-Point" method

Three Phase: $f = \frac{\sqrt{3} \times L \times Isc_1}{C \times Vp}$ $M = 1/(1+f)$ $Isc_2 = Isc_1 \times M$

Single Phase: $f = \frac{2 \times L \times Isc_1}{C \times Vp}$ $M = 1/(1+f)$ $Isc_2 = Isc_1 \times M$

Three Phase Xfmr: $f = \frac{\sqrt{3} \times Isc_1 \times Vp \times \%Z}{100,000 \times kVA}$ $Isc_2 = \frac{Vp \times M \times Isc_1}{Vs}$

Single Phase Xfmr: $f = \frac{Isc_1 \times Vp \times \%Z}{100,000 \times kVA}$ $Isc_2 = \frac{Vp \times M \times Isc_1}{Vs}$

NOTE,
CONDUCTOR LENGTHS SHOWN ARE SHORTEST-PATH FOR USE IN CALCULATIONS ONLY AND ARE NOT INTENDED FOR USE IN BIDDING OR CONSTRUCTION. ACTUAL LENGTHS MUST BE MEASURED & VERIFIED BY THE CONTRACTOR, AND **REPORTED TO ENGINEER** IF DESIGN CHANGES ARE REQUIRED.

fg	SOURCE	Isc_1	C.	(SETS) OF WIRE SIZE	TYP.	'C' VALUE	$V_p/(V_s)$	ø	'L' feet	Xfmr kVA	Xfmr %Z	Isc_2
1	SES	46072	NM	(1) OF #3/0's	Cu.	13923	480	3	30	N/A	N/A	33921
2	F1	33921	N/A	(–) OF N/A	N/A	N/A	480/208	3	N/A	75	4.5	4368
3	F1	33921	NM	(1) OF #12's	Cu.	617	480	3	15	N/A	N/A	8532

BONDING & GROUND DETAIL

KEY NOTES - GROUNDING DIAGRAM

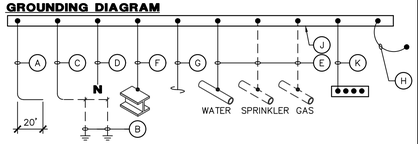
(A) CONCRETE ENCASED ELECTRODE (UFER) (GROUNDING ELECTRODE #1). REFER TO CHART FOR SIZE. MINIMUM 20'.
(B) MINIMUM 10 MIL ANNEALED COPPER CLAD STEEL GROUND ROD. (GROUNDING ELECTRODE #2). REFER TO CHART FOR SIZE. GROUND RODS ARE NOT OPTIONAL, MUST BE INSTALLED.
(C) GROUNDING ELECTRODE CONDUCTOR. REFER TO CHART FOR SIZE.
(D) INTEGRATED (FACTORY BONDED) BUS BAR MAIN BONDING JUMPER. REFER TO CHART FOR MINIMUM CONDUCTOR SIZE. (AMPACITY SHALL BE 150% RATED)
(E) METALLIC PIPING BOND WIRE. REFER TO CHART FOR MINIMUM SIZE. BOND TO ALL METALLIC PIPING (WATER, SPRINKLER, GAS, PNEUMATIC LINES, ETC.) WITHIN THE FIRST ACCESSIBLE 5' OF PIPES ENTRY INTO BUILDING.
(F) BUILDING STEEL BOND WIRE (IF REQUIRED PER BUILDING CONSTRUCTION TYPE). REFER TO CHART FOR MINIMUM SIZE.
(G) BOND WIRE FOR USE WITH MULTIPLE SERVICE's (WHEN PRESENT). REFER TO CHART FOR MINIMUM SIZE.
(H) INTEGRATED (FACTORY BONDED) BUS BAR CASE BOND. REFER TO CHART FOR MINIMUM CONDUCTOR SIZE.
(J) INTEGRATED (FACTORY INSTALLED) GROUND BUS BAR. SHALL BE SIZED TO ACCOMMODATE GROUND WIRE LUGS AS INDICATED ON THE ONE-LINE DIAGRAM.
(K) INTERSYSTEM BONDING TERMINATION BAR AT SERVICE EQUIPMENT, W/ MIN. 3 POINTS OF CONNECTION FOR OTHER SYSTEMS. CONDUCTOR SHALL BE MIN. #6 CU, UNLESS SPECIFIED ELSEWHERE. INSTALL PER NEC 250.94.

CONDUCTOR SIZE CHART

SES AMPACITY	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
3000 AMP	#4	5/8" x 10' (x2)	#4	#500	#3/0	#3/0	#500	

ALL SIZES SHOWN ARE FOR COPPER CONDUCTORS. ALUMINUM IS NOT PERMITTED.

GROUNDING DIAGRAM



GENERAL NOTES - GROUNDING DIAGRAM

1. THIS DETAIL IS PROVIDED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE ARTICLE 250 PERTAINING TO THE "GROUNDING ELECTRODE SYSTEM".
2. SPLICING OF CONDUCTORS SHALL BE ACCOMPLISHED VIA EXOTHERMIC WELD (CAD WELD) ONLY.
3. ALL CONNECTIONS TO GROUND RODS BELOW GRADE OR IN CONCRETE SHALL BE MADE VIA EXOTHERMIC WELD (CAD WELD) ONLY. CONNECTIONS MADE ABOVE GROUND LEVEL CAN BE ACCOMPLISHED UTILIZING A U.L. LISTED MECHANICAL CLAMP SUITABLE FOR THE PURPOSE.
4. ANY VARIANCE FROM THIS DRAWING AND/OR SPECIFICATION MUST BE REQUESTED AND APPROVED IN WRITING PRIOR TO INSTALLATION.
5. ALL INSTALLATIONS SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF ARTICLE 250 (ALL SUBPARAGRAPHS) OF THE NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL CODE REQUIREMENTS.
6. THE GROUNDING SYSTEM SHALL PROVIDE NO GREATER THAN (5) FIVE OHMS RESISTANCE TO GROUND AT THE SERVICE CONNECTION. THE RESULTS SHALL BE VERIFIED BY AN INDEPENDENT TESTING AGENCY VIA GROUND TEST (FALL-OF-POTENTIAL) AND SUBMITTED IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS CONTAINED HEREIN.
7. THE GROUNDING ELECTRODE SYSTEM SHALL CONSIST OF GROUNDING ELECTRODES, ITEMS A (CONCRETE-ENCASED ELECTRODE (A.K.A. UFER), AND GROUND ROD(S) ITEM B. METAL UNDERGROUND WATER PIPE WITH 10' IN CONTACT WITH EARTH, AS DEFINED IN NEC 250.52(A)(1) AND METAL IN-GROUND SUPPORT STRUCTURE IN CONTACT WITH EARTH AS DEFINED IN 2017 NEC 250.52(A)(2) SHALL BE BONDED WITH ITEMS A & B AS PART OF THE GROUNDING ELECTRODE SYSTEM.
8. GROUNDING ELECTRODE CONDUCTORS - ITEMS: A AND C, ((F) CONNECTION TO METAL FRAME AND (E) CONNECTION TO UNDERGROUND WATER PIPE, WHEN CONSIDERED A GROUNDING ELECTRODE), SHALL EACH BE MADE IN SEPARATE CONDUCTORS AND SUITABLY PROTECTED BY CONDUIT WHERE EXPOSED TO DAMAGE OR THEFT. CONDUITS THAT ARE NOT CONTINOUS FROM GROUNDING ELECTRODE TO CABINET/ENCLOSURE SHALL BE BONDED TO THE GEC PER NEC 250.64(E).
9. EXPOSED STRUCTURAL METAL AND METAL PIPING (NOT CONSIDERED A GROUNDING ELECTRODE) SHALL BE BONDED TO THE GROUNDING ELECTRODE SYSTEM AS INDICATED ON DETAIL, CONNECTIONS E AND F, IN ACCORDANCE WITH BONDING REQUIREMENT IN ARTICLE 250 PART V.

KEYED NOTES

1. UNDERGROUND PRIMARY CONDUITS TO UTILITY COMPANY PAD MOUNTED TRANSFORMER. COORDINATE EXACT QUANTITY AND SIZE WITH UTILITY CO.
2. UTILITY PAD MOUNTED TRANSFORMER.
3. (19) 4" UNDERGROUND SECONDARY CONDUITS TO UTILITY COMPANY PAD MOUNTED TRANSFORMER.
4. REFER TO SES BONDING AND GROUNDING DETAIL THIS SHEET FOR ADDITIONAL INFORMATION.
5. GROUND FAULT PROTECTION (GFP) DEVICE. ELECTRICAL CONTRACTOR SHALL PROVIDE GFP SETTING BASED ON DEVICE COORDINATION STUDY AS NOTED IN ELECTRICAL SPECIFICATIONS SECTION 6.11 "PROTECTIVE DEVICE COORDINATION STUDY.
6. 200AMP TENANT METER.
7. (5) SPARE 200AMP TENANT METERS.
8. (3) 200AMP FUSES IN 200AMP PULLOUT. TYPICAL OF (6).
9. PROVIDE (1) 3" (FOR 200AMP CONNECTION) (UPSIZED FOR POTENTIAL VOLTAGE DROP) UNDERGROUND EMPTY CONDUITS WITH PULLSTRING FOR FUTURE POWER STUBBED OUT OF SES AND INTO BUILDING SPACE PAST ELECTRICAL ROOM. COORDINATE EXACT TRENCHING, ROUTING AND POINT OF TERMINATION WITH OWNER.
10. PROVIDE (2) 4" (FOR 400AMP CONNECTION) (UPSIZED FOR POTENTIAL VOLTAGE DROP) UNDERGROUND EMPTY CONDUITS WITH PULLSTRING FOR FUTURE POWER STUBBED OUT OF SES, INTO THE AUXILARY SECTION AND THEN OUT OF AUXILIANRY SECTION RAN INTO BUILDING SPACE PAST OWNER'S ROOM. COORDINATE EXACT TRENCHING, ROUTING AND POINT OF TERMINATION WITH OWNER.
11. (4) #4/0's Cu., (1) #2 Cu. E.G. – 2 1/2" C.
12. (4) #3/0's Cu., (1) #6 Cu. E.G. – 2" C.
13. (3) #1's Cu., (1) #6 Cu. E.G. – 1 1/2" C.
14. 75KVA STEP-DOWN TRANSFORMER 480V, 3Ø PRIMARY – 208Y/120V., 3Ø, 4W SECONDARY, NEMA 3R 4.5%Z.

GENERAL NOTES - ONE-LINE

1. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS TO FULLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS PRIOR TO BID. NO ADDITIONAL CONSIDERATIONS WILL BE ALLOWED AFTER THE BID.
2. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL INDICATED EQUIPMENT TO CODE COMPLIANT CLEARANCES. PROVIDE SUBMITTALS AS INDICATED IN SPECIFICATIONS TO PROPERLY COORDINATE PHYSICAL LOCATIONS OF NEW AND/OR EXISTING EQUIPMENT.
3. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND COMPLETE CONTRACTUAL OBLIGATIONS.
4. ALL DASHED LINES ARE INDICATING EXISTING EQUIPMENT.
5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT DIRECTORY OR CIRCUIT IDENTIFICATION FOR PANELBOARDS AND SOURCE OF SUPPLY FOR SWITCHBOARDS AND PANELBOARDS SUPPLIED BY A FEEDER IN OTHER THAN ONE– TWO–FAMILY DWELLINGS IN ACCORDANCE WITH NEC 408.4(A)&(B).
6. WHERE A RACEWAY ENTERS A BUILDING OR STRUCTURE FROM AN UNDERGROUND DISTRIBUTION SYSTEM, ELECTRICAL CONTRACTOR SHALL PROVIDE RACEWAY SEALS PER NEC 225.27.
7. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FOR AND COORDINATE ALL TESTING AND INSPECTIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION, AND SHALL PROVIDE WRITTEN REPORTS TO THE ENGINEER OF ALL TEST RESULTS AND INSPECTION REPORTS FOR THIS DISCIPLINE.
8. WHERE SPECIAL INSPECTION/OBERVATION IS REQUIRED, QUALIFIED 3RD PARTY INDIVIDUALS ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION SHALL WORK DIRECTLY FOR THE OWNER TO PERFORM ALL REQUIRED TESTING & INSPECTION.
9. UPON SUBSTANTIAL COMPLETION, THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL ALLOW, AT THE ENGINEERS DISCRETION, FOR THE INSPECTION OF NEW WORK PRIOR TO ENERGIZING.
10. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ARC–FLASH HAZARD WARNING FIELD LABELING TO ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC 110.16.
11. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MAXIMUM AVAILABLE FAULT CURRENT FIELD LABELING TO SERVICE EQUIPMENT INSTALLED IN OTHER THAN DWELLING UNITS IN ACCORDANCE WITH NEC 110.24.
12. GFP MUST BE ON–SITE TESTED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. ELECTRICAL CONTRACTOR SHALL PROVIDE COPY OF MANUFACTURER'S INSTRUCTIONS AND TEST RESULTS TO AUTHORITY HAVING JURISDICTION.
13. ALL EQUIPMENT RATED @ 1000 AMPS OR MORE SHALL BE TESTED IN CONFORMANCE WITH UL STANDARD 869 OR 891 FOR INSULATION BREAKDOWN PRIOR TO ITS BEING ENERGIZED. THIS TEST SHALL BE PERFORMED BY A TESTING FACILITY APPROVED BY THE BUILDING OFFICIAL. (SEE SECTION 4.6 OF ELECTRICAL SYSTEM SPECIFICATIONS)
14. ALL UNDERGROUND CONDUITS ENTERING BUILDING/STRUCTURE FROM OUTSIDE SHALL BE SEALED PER NEC 225.27

SES LOAD SUMMARY

TOTAL BUILDING SQUARE FOOTAGE = 88245 S.F.

FUTURE LIGHTING (1VA PER S.F.)	=	88245 VA
FUTURE POWER (6VA PER S.F.)	=	705960 VA
FUTURE HVAC (6VA PER S.F.)	=	705960 VA
FUTURE MISC. (6VA PER S.F.)	=	705960 VA
CONNECTED LOAD ON PANEL "HP2"	=	33555 VA
TOTAL ESTIMATED LOAD ON S.E.S.	=	2239680 VA
TOTAL ESTIMATED LOAD ON S.E.S. @ 480V 3Ø	=	2695.2 A

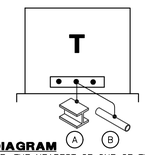
TRANSFORMER GROUND DETAIL

GROUND SIZE CHART

SEE NOTE 6 FOR GEC SIZING.

	TRANSFORMER SIZE (kVA)	GEC SIZE (Cu.)
*	75kVA	#2

GROUNDING DIAGRAM



KEY NOTES - GROUNDING DIAGRAM

WHEN PRESENT AT BUILDING OR STRUCTURE, THE NEAREST OF ONE OF THE FOLLOWING GROUNDING ELECTRODES, AS DEFINED BY 250.52(A)(1),(2), SHALL BE USED AS THE TRANSFORMER GROUND. SEE NOTE 5. BELOW FOR BONDING NOTE. (ADDITIONAL TO GROUNDING REQUIREMENTS OF SEPARATELY DERIVED SYSTEM PER NEC 250.30)

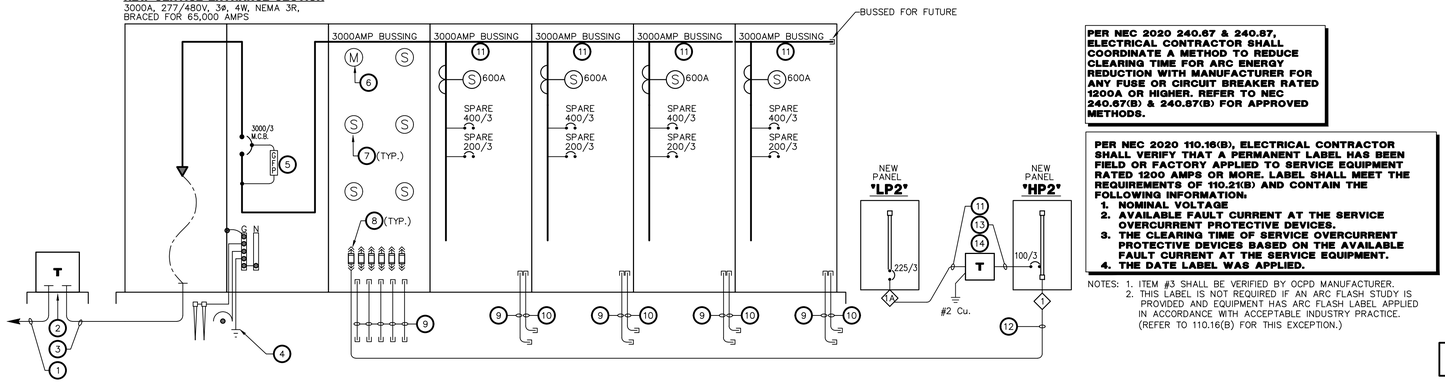
(A) METAL FRAME OF BUILDING OR STRUCTURE. REFER TO CHART FOR MINIMUM GROUNDING ELECTRODE CONDUCTOR SIZE.
(B) METAL UNDERGROUND WATER PIPE. REFER TO CHART FOR MINIMUM GROUNDING ELECTRODE CONDUCTOR SIZE. .

GENERAL NOTES - GROUNDING DIAGRAM

1. ANY OF THE OTHER ELECTRODES IDENTIFIED IN NEC 250.52(A) SHALL BE USED IF THE ELECTRODES SPECIFIED ABOVE ARE NOT AVAILABLE.
2. THIS DETAIL IS PROVIDED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE ARTICLES 250 AND 450 PERTAINING TO THE "GROUNDING ELECTRODE SYSTEM".
3. ANY VARIANCE FROM THIS DRAWING AND/OR SPECIFICATION MUST BE REQUESTED AND APPROVED IN WRITING PRIOR TO INSTALLATION.
4. ALL INSTALLATIONS SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF ARTICLE 250 AND 450 (ALL SUBPARAGRAPHS) OF THE NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL CODE REQUIREMENTS.
5. WHEN ITEMS A AND B ABOVE CANNOT BE USED AS A GROUNDING ELECTRODE, PROVIDE BONDING OF SEPARATELY DERIVED SYSTEMS TO PIPING SYSTEMS AND EXPOSED STRUCTURAL STEEL PER NEC 250.104 IN ADDITION TO GROUNDING REQUIREMENTS.
6. GEC SIZED PER NEC 250.66 BASED ON SECONDARY CONDUCTORS OF TRANSFORMER (SEPARATELY DERIVED SYSTEM 250.30)

WEST JORDAN UTILITY
AFC=46,072

NEW SERVICE ENTRANCE SECTION
3000A, 277/480V, 3ø, 4W, NEMA 3R,
BRACED FOR 65,000 AMPS



PER NEC 2020 240.67 & 240.87, ELECTRICAL CONTRACTOR SHALL COORDINATE A METHOD TO REDUCE CLEARING TIME FOR ARC ENERGY REDUCTION WITH MANUFACTURER FOR ANY FUSE OR CIRCUIT BREAKER RATED 1200A OR HIGHER. REFER TO NEC 240.67(B) & 240.87(B) FOR APPROVED METHODS.

PER NEC 2020 110.16(B), ELECTRICAL CONTRACTOR SHALL VERIFY THAT A PERMANENT LABEL HAS BEEN FIELD OR FACTORY APPLIED TO SERVICE EQUIPMENT RATED 1200 AMPS OR MORE. LABEL SHALL MEET THE REQUIREMENTS OF 110.21(B) AND CONTAIN THE FOLLOWING INFORMATION:
1. **NOMINAL VOLTAGE**
2. **AVAILABLE FAULT CURRENT AT THE SERVICE OVERCURRENT PROTECTIVE DEVICES.**
3. **THE CLEARING TIME OF SERVICE OVERCURRENT PROTECTIVE DEVICES BASED ON THE AVAILABLE FAULT CURRENT AT THE SERVICE EQUIPMENT.**
4. **THE DATE LABEL WAS APPLIED.**

NOTES: 1. ITEM #3 SHALL BE VERIFIED BY OCPD MANUFACTURER.
2. THIS LABEL IS NOT REQUIRED IF AN ARC FLASH STUDY IS PROVIDED AND EQUIPMENT HAS ARC FLASH LABEL APPLIED IN ACCORDANCE WITH ACCEPTABLE INDUSTRY PRACTICE. (REFER TO 110.16(B) FOR THIS EXCEPTION.)

ELECTRICAL ONE-LINE DIAGRAM - BUILDING 2

SCALE: N.T.S.

DESIGN CODES
IECC: 2021 NEC: 2020

ELECTRICAL CONTRACTOR SHALL NOTIFY DESIGNER/ENGINEER PRIOR TO ANY DEVIATION FROM THIS SET OF ELECTRICAL DESIGN PLANS. ANY CHANGES TO THE DESIGN, IF APPROVED BY ENGINEER, WILL REQUIRE REVISIONS TO PLANS AND POSSIBLE ADDITIONAL SERVICE FEE.

Project Contact/Designer: MINDY ADLER
Project # 25417
HAWKINS DESIGN GROUP INC.
ELECTRICAL CONSULTING ENGINEERS
1140 WEST HARWELL ROAD
GILBERT, ARIZONA 85233
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IF DRAWING IS NOT PLOTTED AT 24 X 36 THEY ARE NOT FULL SIZE

DLR GROUP
© DLR Group

PROFESSIONAL ENGINEER — No 9441757-2202 — ARMANDO GARCIA — STATE OF UTAH

SEALED 2-26-2026

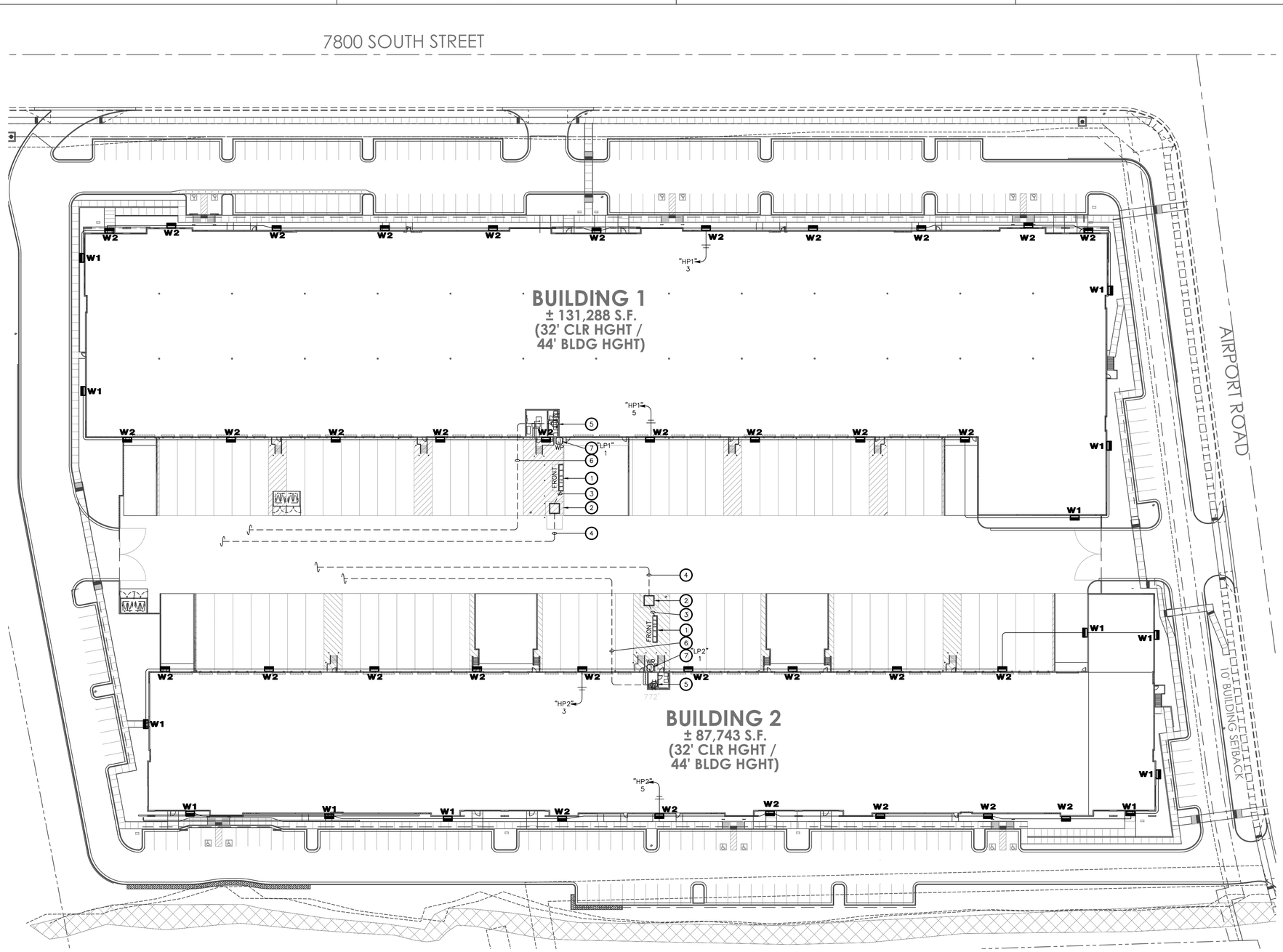
Notice of Extended Payment Provision
This contract allows the owner to make payment within 16 days after certification and approval of billings and estimates for progress payments, within 16 days after certification and approval of billings and estimates for release of retention and within 16 days after certification and approval of billings and estimates for final payment.

7800 LOGISTICS W. JORDAN
GO INDUSTRIAL
4501 W 7800 S.
WEST JORDAN, UT 84088

CONSTRUCTION DOCUMENTS
02/26/26
REVISIONS

BUILDING 2
ELECTRICAL
ONE-LINE
DIAGRAM
E2.1

Autodesk Docs://Workplace - TF-TI - 2024/30-xxxxx-00 GO_7800 Logistics_West Jordan_AR_2024.rvt
10/8/2025 4:59:43 PM



ELECTRICAL SITE PLAN

SCALE: 1" = 40'-0"

NORTH

GENERAL NOTES - SITE

1. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND COMPLETE CONTRACTUAL OBLIGATIONS.
2. ELECTRICAL CONTRACTOR SHALL CONTACT TELEPHONE COMPANY REGARDING EXACT LOCATION OF ALL PRIMARY SERVICE EQUIPMENT, TRENCH LOCATION, ETC.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TELEPHONE TRENCHING, BACKFILL, AND CONDUIT STUBS INTO TRENCH AS REQUIRED BY TELEPHONE COMPANY AND TO THEIR SPECIFICATIONS.
4. ALL WIRING FOR OUTSIDE LIGHTING SHALL BE A MINIMUM OF #10 COPPER WITH TYPE THWN INSULATION. RUN UNDERGROUND CIRCUITS IN P.V.C. AND PROVIDE A #10 COPPER BOND IN ADDITION TO CIRCUIT CONDUCTORS. UNDERGROUND WIRING SHALL COMPLY WITH APPLICABLE CODES OF THE NEC.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE NECESSARY SECONDARY CONDUCTORS, POWER TRENCHING, BACKFILL AND CONCRETE PADS FOR TRANSFORMERS AND SERVICE EQUIPMENT. ADDITIONALLY PROVIDE CONDUIT STUBS INTO TRENCH PER POWER COMPANY SPECIFICATIONS AND REQUIREMENTS.
6. ALL WIRING SHALL BE COPPER. WIRING #4 AWG AND LARGER SHALL BE XHHW TYPE INSULATION.

UTILITY COMPANY NOTES

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH SERVING UTILITY COMPANY AND THEIR SPECIFIC REQUIREMENTS WITHIN (5) DAYS OF AWARD OF CONTRACT.
2. PROVIDE SERVING UTILITY COMPANY WITH ONE (1) FULL SET OF PLANS INCLUDING SITE PLAN, ONE-LINE DIAGRAM, AND TOTAL LOAD SUMMARY.
3. CONFIRM ALL UTILITY COMPANY REQUIREMENTS PRIOR TO TRENCHING.
4. CONTRACTOR SHALL COORDINATE WITH SERVING UTILITY COMPANY IF AN UPGRADE IS REQUIRED TO UTILITY TRANSFORMER OR SECONDARY CONDUIT AND CONDUCTORS.
5. CONTRACTOR SHALL COORDINATE EXACT COSTS (PER AMP CHARGE, ECT.) OF ANY ADDITIONAL WORK WITH SERVING UTILITY COMPANY PRIOR TO START OF CONSTRUCTION.

UTILITY COMPANY CONTACT
Power Company:
WEST JORDAN UTILITY
Representative:
NEW CONSTRUCTION
Telephone #:
801-569-5000

PRIOR TO ANY GROUND EXCAVATION CALL
BLUE STAKE
(602) 263-1100
(800) 782-5348

KEYED NOTES

1. SERVICE ENTRANCE SECTION. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
2. NEW PAD AND NEW PAD MOUNTED TRANSFORMER. VERIFY EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH SERVING UTILITY COMPANY.
3. UNDERGROUND SECONDARY CONDUITS SEE ONE-LINE DIAGRAM FOR QUANTITIES.
4. (6) 3" UNDERGROUND PRIMARY CONDUITS TO UTILITY COMPANY PAD MOUNTED TRANSFORMER. COORDINATE EXACT QUANTITY AND SIZE WITH UTILITY CO.
5. APPROXIMATE LOCATION OF 4'x8'x3/4" PLYWOOD TELEPHONE MOUNTING BOARD WITH 1 #6 GROUND TO DESIGNATED SERVICE ENTRANCE GROUND BUS. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
6. PROVIDE (2) 2" AND (2) 4" UNDERGROUND COMMUNICATION SYSTEM EMPTY CONDUITS WITH PULLSTRING AND RIGID STEEL BENDS PER COX TELEPHONE COMPANY. COORDINATE EXACT TRENCHING, ROUTING AND POINT OF TERMINATION WITH TELEPHONE COMPANY.
7. PROVIDE WEATHERPROOF JUNCTION BOX FOR CONNECTION TO IRRIGATION CONTROLLER. VERIFY LOCATION WITH LANDSCAPE PLANS PRIOR TO ROUGH-IN. CONDUCTORS UPSIZED FOR VOLTAGE DROP.

VOLTAGE DROP NOTE:

1. ALL 277V 20A LIGHTING CIRCUITS LONGER THAN 170'-0" SHALL BE #10 CU. IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
2. ALL 277V 20A LIGHTING CIRCUITS LONGER THAN 260'-0" SHALL BE #8 CU. IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
3. ALL 277V 20A LIGHTING CIRCUITS LONGER THAN 400'-0" SHALL BE #6 CU. IN 1" CONDUIT UNLESS NOTED OTHERWISE AND REDUCE TO #8 CU. AT THE CIRCUIT BREAKER.
4. ALL 277V 20A LIGHTING CIRCUITS LONGER THAN 620'-0" SHALL BE #4 CU. IN 1" CONDUIT UNLESS NOTED OTHERWISE AND REDUCE TO #8 CU. AT THE CIRCUIT BREAKER.

NOTE:
PER 2021 IECC C405.2.7.3, EXTERIOR LIGHTING SHALL BE CONTROLLED SO THAT TOTAL WATTAGE IS AUTOMATICALLY REDUCED BY NOT LESS THAN 50% BY SELECTIVELY SWITCHING OF OR DIMMING LUMINAIRES AT ONE OF THE FOLLOWING TIMES:

1. FROM NO LATER THAN MIDNIGHT TO NOT EARLIER THAN 6a.m.
2. FROM NO LATER THAN ONE HOUR AFTER BUSINESS CLOSING TO NOT EARILER THAN ONE HOUR BEFORE BUSINESS OPENING.
3. DURING ANYTIME WHERE ACTIVITY HAS NOT BEEN DETECTED FOR 15 MINUTES.

LUMINAIRES SERVING OUTDOOR PARKING AREAS AND HAVING A RATED INPUT WATTAGE OF GREATER THAN 40 WATTS AND MOUNTING HEIGHT OF 24' OR LESS ABOVE GROUND SHALL BE CONTROLLED SO THAT TOTAL WATTAGE OF SUCH LIGHTING IS AUTOMATICALLY REDUCED BY NOT LESS THAN 50% DURING ANY TIME WHERE ACTIVITY HAS NOT BEEN DETECTED FOR 15 MINUTES OR MORE, NOT MORE THAN 1,500 WATTS TO BE CONTROLLED TOGETHER PER IECC 2021 C405.7.3(2).

NOTE:
REFER TO SHEET ES2.0 FOR SITE LIGHTING FIXTURE SCHEDULE AND IECC CALCS.

DESIGN CODES
IECC: 2021 NEC: 2020

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ARMANDO GARCIA
STATE OF UTAH

SEALED 2-26-2026

Notice of Extended Payment Provision
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CONSTRUCTION DOCUMENTS
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REVISIONS

ELECTRICAL SITE PLAN

ES1.0

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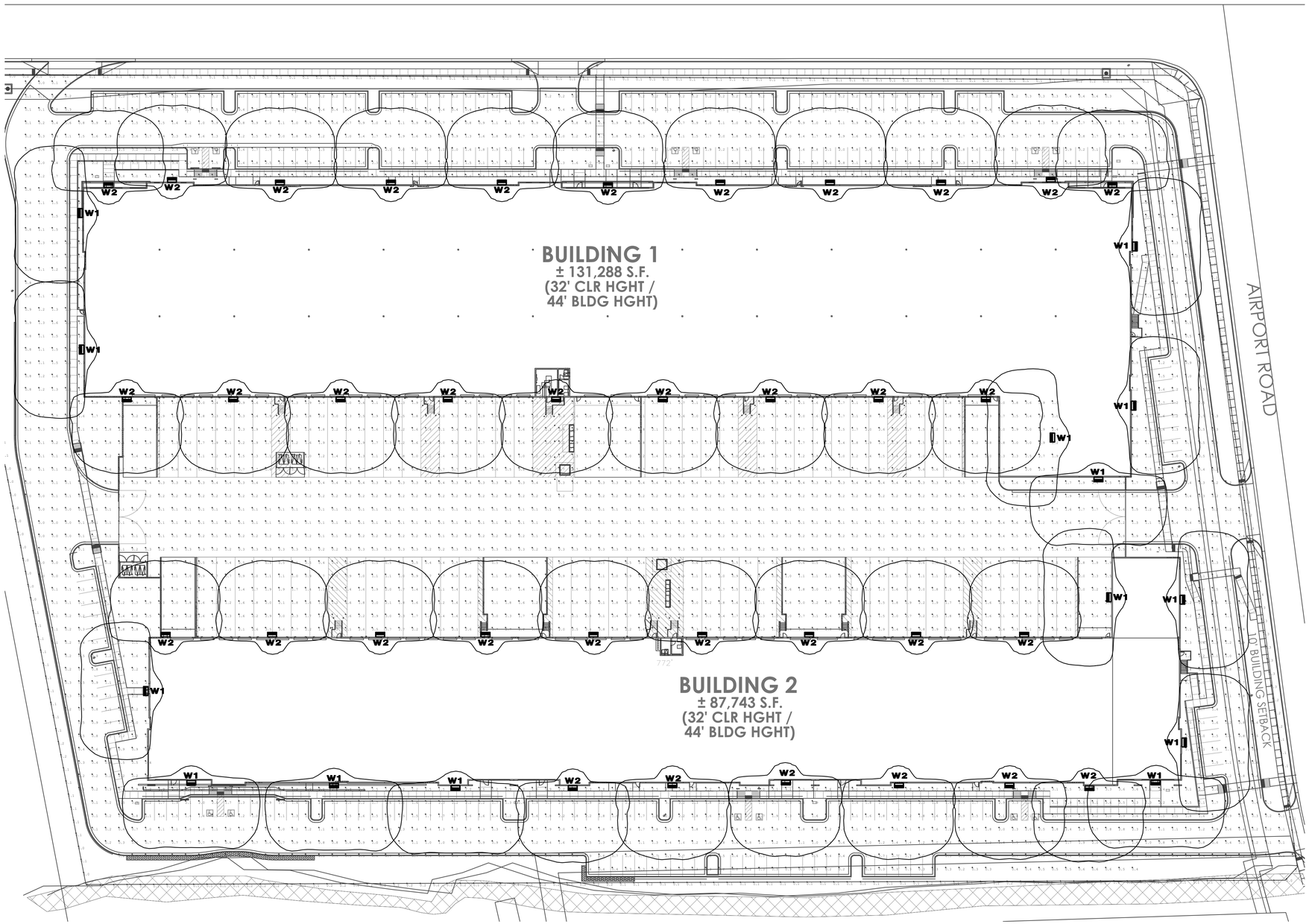

ELECTRICAL SITE LIGHTING PHOTOMETRIC PLAN

NORTH

SCALE: 1" = 40'-0"

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Manufacturer	MODEL	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
	35	W2	Single	BEACON	VPW3-36L-80-3K7-4F	0.900	9516	77.6	2716
	14	W1	Single	BEACON	VPW3-36L-80-3K7-4W	0.900	9499	77.6	1086.4

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Grade_Top	Illuminance	Fc	1.23	4.7	0.0	N.A.	N.A.
property line	Illuminance	Fc	0.13	0.5	0.0	N.A.	N.A.

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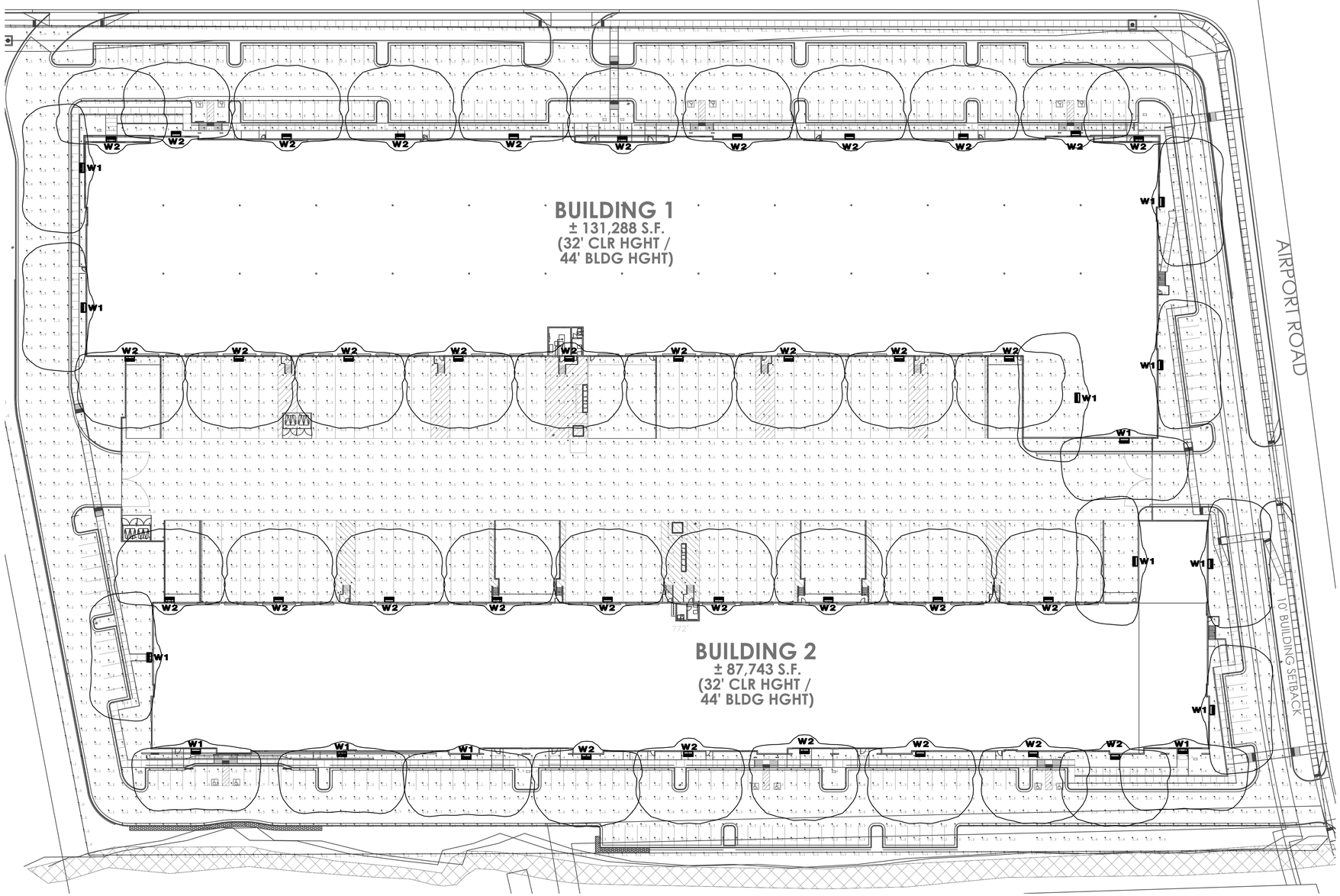

ELECTRICAL SITE IECC DIMMED PHOTOMETRIC PLAN

NORTH

SCALE: 1" = 40'-0"

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Manufacturer	MODEL	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
	35	W2	Single	BEACON	VPW3-36L-80-3K7-4F	0.650	9516	77.6	2716
	14	W1	Single	BEACON	VPW3-36L-80-3K7-4W	0.650	9499	77.6	1086.4

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Grade_Top	Illuminance	Fc	0.89	3.4	0.0	N.A.	N.A.
property line	Illuminance	Fc	0.10	0.3	0.0	N.A.	N.A.

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LUMINAIRE SCHEDULE

1. PROVIDE 90–MINUTE EMERGENCY BATTERY BACK–UP FOR ALL EMERGENCY FIXTURES. SEE SCHEDULE BELOW FOR SPECIFICATIONS AND LUMEN REQUIREMENTS.
2. MODULAR WIRING SYSTEM FOR LIGHT FIXTURES IS AN ACCEPTABLE ALTERNATE.
3. BASE BID FOR LUMINAIRES SHALL BE BASED ON MANUFACTURERS LISTED IN CONTRACT DOCUMENTS. UPON AWARD OF PROJECT. ALTERNATES PROPOSED BY CONTRACTOR SHALL BE SUBMITTED WITH WRITTEN OWNER APPROVAL & AN ITEMIZED DEDUCT TO BASE BID.
4. ALTERNATE FIXTURE SELECTIONS MAY REQUIRE ADDITIONAL TIME FOR SUBMITTAL REVIEW & POSSIBLE ENGINEERING DESIGN CHANGES, TO BE BILLED TO THE CONTRACTOR.
5. PROVIDE MINIMUM 10 MINUTE TIME DELAY ON EMERGENCY FIXTURES WHEN HID AREA LIGHTING IS USED.

MARK	MANUFACTURER MODEL NUMBER	VOLTS	LAMPS CRI/CCT INPUT WATTS	REMARKS/MOUNTING
(1) **W1**	BEACON VPW3-36L-80-3K7-4W	MVOLT	LED's 78W	WALL PACK MOUNTED AT 20'A.F.G.
(1) **W2**	BEACON VPW3-36L-80-3K7-4F	MVOLT	LED's 78W	WALL PACK MOUNTED AT 20'A.F.G.

(1) NOTE: FIXTURES SHALL BE CONTROLLED WITH STEP DIMMING MOTION SENSOR SO THAT FIXTURE IS DIMMED TO 50% OUTPUT MAXIMUM WHEN NO MOTION IS DETECTED FOR 15 MINUTES OR MORE PER IECC 2021.

EXTERIOR IECC WATT PER SQUARE FOOT COMPLIANCE

WATTS USED

DESIGNATION	QUANTITY		WATTS	SUB–TOTAL W
W1	14	x	78	= 1092 W
W2	35	x	78	= 2730 W
	TOTAL WATTS USED			= 3822 W

WATTS ALLOWED - TRADEABLE AREA

PARKING AREAS & DRIVES	315969	x 0.06W/s.f.	= 18958 W
TOTAL INDIVIDUAL AREA WATTS ALLOWED			= 18958 W

COMPLIANCE

TOTAL AREA ALLOWANCES	= 18958 W
TOTAL WATTS USED	= 3822 W
TOTAL COMPLIANCE BY	= 15136 W

THIS TABLE VERIFIES CODE COMPLIANCE FOR FIXTURE TYPES, QUANTITIES, AND POWER CONSUMPTION. TABLE PROVIDED AS COMPLIANCE MATERIAL TO MEET IECC 2021 SECTION C405.5.2 FOR LIGHTING POWER ALLOWANCE WITHIN ZONE 4 (C405.4.2(1)). METHOD IS ACCEPTABLE PER IECC C101.4.1.

FIXTURE TYPES, "W1" & "W2"

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VIPER Wall

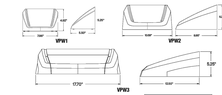
VPW1/VPW2/VPW3 LED WALLPACK

DATE: LOCATION:
TYPE: PROJECT:
CATALOG #:

FEATURES

- Low profile LED wall luminaire with a variety of IES distributions for lighting applications such as retail, commercial and industrial building mount
- Featuring Strike and Micro Strike Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues
- Visual Comfort - Option for Size 2 and Size 3
- Control options including photo control, occupancy sensing, NX Distributed Intelligence™, and LightGRID+.
- Battery Backup options available for emergency code compliance
- Quick-mount adapter allows easy installation/maintenance
- 347V and 480V versions for industrial applications and Canada

MICROSTRIKE | STRIKE optics



	Weight
VPW1	41 lbs / 18.6 kg
VPW2	7.15 lbs / 3.24 kg
VPW3	171 lbs / 7.80 kg

CONTROL TECHNOLOGY

NX Distributed | NX | NX | LIGHTGRID

SPECIFICATIONS

CONSTRUCTION
- Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with powder coat paint finish
- Powder paint finish provides durability in outdoor environments. Tested to meet 1000 hour salt spray rating

OPTICS
- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance
- 2700K, 3000K, 3500K, 4000K and 5000K CCTs
- Zero uplight distributions
- LED optics provide IES type II, III and IV distributions.

INSTALLATION
- Quick-mount adapter provides easy installation to wall or to recessed junction boxes (4" square junction box)
- Designed for direct j-box mount.

ELECTRICAL
- 120V-277V universal voltage 50/60Hz 0-10V dimming drivers
- 347V input is available in most wattage, 480V is available for 55W and above.
- Ambient operating temperature -40°C to 40°C
- Driver RoHS and IP66
- 10kV Surge Protector optional
- Drivers have greater than .90 power factor and less than 20% Total Harmonic Distortion
- Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire. Both options can not be included in one same fixture.
- Dimming drivers are standard. Select CD (Customer Dimming) for the dimming wires to be extended outside the fixture.

CONTROLS
- Photo control, occupancy sensor and wireless available for complete on/off and dimming control
- Button photocontrol is suitable for 120-277V operation
- NX Distributed Intelligence™ available with in fixture wireless control module, features dimming and occupancy sensor

CONTROLS CONTINUED
- Integral Battery Backup provides emergency lighting for the required 90 minute path of egress
- Battery Backup suitable for operating temperatures -20°C to 40°C
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application.
- LightGRID+ available with in fixture wireless control module, features dimming and occupancy sensor.

CERTIFICATIONS
- Certified to UL 1598 and CSA 22.2#2600-24
- IP65 rated housing
- Emergency battery backup options are California Energy Commission (CEC) Title 20 Compliant
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225- 11) See Buy America(n) Solutions (link to https://http://www.currentlighting.com/resources/americasolutions).
- DarkSky approved with 3000K CCT or warmer

WARRANTY
- 5 year limited warranty

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VIPER Wall

VPW1/VPW2/VPW3 LED WALLPACK

DATE: LOCATION:
TYPE: PROJECT:
CATALOG #:

ORDERING GUIDE

Example: VPW1–24L–10–3K7–2–UNV–BLS

CATALOG #

Series	Optic Platform	Size	# LEDs - Wattage	CCT/CRI	Distribution	Voltage	Color
VPW Viper Wall	**(blank)** Microstrike	**1**	**24L-10** 1000 Lumens	**27K5** 2700K, 80 CRI[4]	**FR** Auto Front Row[7,8]	**UNV** 120-277V	**BLT** Black Matte Textured
	ST Strike		**24L-15** 2,000 Lumens	**3K7** 3000K, 70 CRI[4]	**2** IES TYPE 2	**120** 120V	**BLS** Black Gloss Smooth
			24L-25 3,000 Lumens	**4K7** 4000K, 70 CRI	**3** IES TYPE 3	**208** 208V	**DBT** Dark Bronze Matte Textured
			48L-15 2,000 Lumens	**5K7** 5000K, 70 CRI	**4F** IES TYPE 4 Forward	**240** 240V	**DBS** Dark Bronze Gloss Smooth
		2	**48L-20** 3,000 Lumens	**3K8** 3000K, 80 CRI	**4W** IES TYPE 4W	**277** 277V	**GTT** Graphite Matte Textured
			48L-30 4,000 Lumens	**4K8** 4000K, 80 CRI		**347** 347V	**LGS** Light Grey Gloss Smooth
			48L-35 5,000 Lumens	**5K8** 5000K, 80 CRI		**480** 480V	**LGT** Light Grey Matte Textured
			48L-45 6,000 Lumens	**AP** Phosphor Converted Amber[1]			**PSS** Platinum Silver Smooth
			80L-20 3,000 Lumens				**WHT** White Matte Textured
			80L-25 4,000 Lumens				**WHS** White Gloss Smooth
			80L-35 5,000 Lumens				**VGT** Verde Green Textured
			80L-45 6,000 Lumens				**Color Option**
			80L-55 7,000 Lumens				**CC** Custom Color
			80L-65 8,000 Lumens				
			80L-70 8,500 Lumens				
			18L-25 3,000 Lumens, Strike Optics				
			18L-30 4,000 Lumens, Strike Optics				
			18L-39 4,750 Lumens, Strike Optics				
			18L-50 6,000 Lumens, Strike Optics				
			18L-60 6,500 Lumens, Strike Optics				
		3	**160L-45** 7,000 Lumens				
			160L-70 10,000 Lumens				
			160L-95 12,500 Lumens				
			160L-105 15,000 Lumens				
			160L-135 17,500 Lumens				
			160L-165 20,000 Lumens				
			36L-55 7,000 Lumens, Strike Optics				
			36L-80 9,500 Lumens, Strike Optics				
			36L-100 11,500 Lumens, Strike Optics				
			36L-120 13,000 Lumens, Strike Optics				

Control Options Network[5,11,12,13]	
NXW912F	NX Networked Wireless Enabled Integral NXSMP2-OMNI PR Occupancy Sensor with Automatic Dimming Protocell and Bluetooth Programming[14]
NXW916F	NX Networked Wireless Enabled Integral NXSMP2-LMO PR Occupancy Sensor with Automatic Dimming Protocell and Bluetooth Programming[14]
NXW540F	NX Networked Wireless Enabled Integral NXSMP2-HMO PR Occupancy Sensor with Automatic Dimming Protocell and Bluetooth Programming[14]
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor
WIR	LightGRID+ In-Fixture Module[9]
WIRSC	LightGRID+ In-Fixture Module with BTS occupancy[9]
Stand Alone Sensors[13,15]	
BTS-14F	Bluetooth® Programmable, PIR Occupancy/Daylight Sensor[16]
BTS-40F	Bluetooth® Programmable, PIR Occupancy/Daylight Sensor[16]
BTSO-12F	Bluetooth® Programmable, PIR Occupancy/Daylight Sensor, up to 12' mounting height[16]
Photocontrol[11]	
PC	Button Photocontrol 120-277V

Options	
F	Fusing[10]
E	Battery[4,9]
EH	Battery with Heater[4,9]
CS	Comfort Shield[10]
SP	10kA Surge Protector
2PF	Dual Power Feed[2,3,10]
2DR	Dual Driver[2,3,10]
CD	Customer Dimming[6]
DTS	Dimming Transfer Switch[7]

Notes:
1. Available with Micro Strike Optics only
2. Not available with 480V in Size 1 and Size 2
3. Networked controls cannot be combined with other control options
4. Not available with VPW1 or with 2PF or 2DR options
5. Must specify voltage (VPW1 & VPW2: 120-277V or 347V; VPW3: 120V, 208V, 240V, 277V, 347V or 480V)
6. See page 10 for detail Battery configurations
7. Not available in VPW1
8. 2PF can't be combined with E or EH; 2DR can't be combined with E or EH in VPW2
9. Not available in VPW1 and VPW2
10. Not available with Micro Strike 24L and 48L. Not available with Micro Strike 80L
11. Not available with 2PF.
12. Not available with Network Control options or Stand Alone Sensors. Can be ordered with PC.
13. Not available in 480V in VPW2. Only available in 480V in VPW3 in 80W, 100W, 135W, 165W and 180W
14. NXW912F and BTSO-12F are the only sensors available in VPW3
15. Available with Strike Optics only (ST) or SKU.
16. DarkSky approved with 3000K CCT or warmer
17. Not available in Size 2 IES.

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