MANTI HIGH SCHOOL SHOP & WRESTLING ADDITIONS 100 WEST 500 NORTH MANTI, UTAH 84642

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COVER SHEET

PROJECT FOR
THE SOUTH SANPETE SCHOOL
DISTRICT BOARD OF EDUCATION
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PROJECT FOR
THE SOUTH SANPETE SCHOOL
DISTRICT BOARD OF EDUCATION
39 SOUTH MAIN MANTI, UTAH 84642







architects



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CODE ANALYSIS:

CODE ED 2021 2020

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ALLOWAB NEW ADD EXISTING

allowab Building BUILDING

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FIRE SEPARATION AND EGRESS PLAN 1" = 30'-0"

DITIONS			FIRE PROTECTION		
	NEC	IFC, IECC	SPRINKLER SYSTEM		
UCTION TYPE NCY CLASSIFICATION	II-B GROUP F		EXISTING BUILDING NEW BUILDING	YES YES	
BLE BUILDING HEIGHT (TBL 504.3)	75'-0" (SPRIN	(LED)	FIRE EXTINGUISHERS	YES (EXISTING)	
DITION(S) BUILDING HEIGHT	16'-0" ` 34'-0"	,	FIRE WALLS EGRESS	YES, 1 HR & 2 HR S PLAN THIS SI	EE FIRE SEPARATION & HEET
BLE STORIES (TBL 504.4) DITION(S) STORIES	3 (SPRINKLEE 1	D)	MEANS OF EGRESS		
BUILDING STORIES	1		COMMON PATH OF TRAVEL (SPRIN MAX TRAVEL DISTANCE (SPRINKLE	KLED TBL 1006.2.1) D TBL 1017.2)	75 FT 250 FT
BLE BUILDING AREAS (TBL 506.2) 9 D TOTAL AREA 9 F TOTAL AREA	58,000 SF 4,646 SF 4,866 SF		RATED CORRIDORS (SPRINKLED TE	3L 1020.2)	NONE REQUIRED
G AREA CALCULATIONS: BUILDING A BUILDING B BUILDING C	EXISTING 82,934 24,677 10,508	NEW			
BUILDING D BUILDING E	2,384 5,490	2,262			
BUILDING TOTAL	125,993 SF	7,128 SF = 133,121 SF			

FIRE SEPARATION & EGRESS PLAN LEGEND:

1

39 SOUTH MAIN MANTI, UTAH 84642
DISTRICT BOARD OF EDUCATION
THE SOUTH SANPETE SCHOOL
PROJECT FOR

naylor wentworth lund architects

_A ____6

5

─<mark>↓ ↓</mark> *STUD SIZE WALL TYPE - B2

STRUCTURE (AS OCCURS)

SEE PLAN

—

T.O. WALL = EL. 112'-0"

------ FACE OF MASONRY

—— 09 2116 - 5/8" GYPSUM BOARD

—— 09 2116 - METAL STUD FRAMING @ 16" O.C.

04 2731- 8x8x16" SOLID GROUT CONCRETE MASONRY UNITS, REFER TO STRUCTURAL DRAWINGS FOR REINFORCING REQUIREMENTS

|1

2

04 2113 - EXTERIOR MASONRY VENEER, REFER TO EXTERIOR ELEVATIONS FOR COURSING & FINISH PATTERNS & STRUCTURAL

DRAWINGS FOR REINFORCING & GROUTING REQUIREMENTS

— AIR GAP

07 2100 - 2" RIGID INSULATION

04 2731- 8x8x16" SOLID GROUT CONCRETE MASONRY UNITS, REFER TO STRUCTURAL DRAWINGS FOR REINFORCING REQUIREMENTS

PROJECT FOR
THE SOUTH SANPETE SCHOOL
DISTRICT BOARD OF EDUCATION
39 SOUTH MAIN MANTI, UTAH 84642

GENERAL NOTES

- 1. ALL CONSTRUCTION MUST STRICTLY FOLLOW THE STANDARDS AND SPECIFICATIONS SET FORTH BY: THE DESIGN ENGINEER, LOCAL AGENCY JURISDICTION, APWA (CURRENT EDITION), AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.). THE ORDER LISTED ABOVE IS ARRANGED BY SENIORITY. THE LATEST EDITION OF ALL STANDARDS AND SPECIFICATIONS MUST BE ADHERED TO. IF A CONSTRUCTION PRACTICE IS NOT SPECIFIED BY ANY OF THE LISTED SOURCES, CONTRACTOR MUST CONTACT DESIGN ENGINEER FOR DIRECTION.
- 2. CONTRACTOR TO STRICTLY FOLLOW THE MOST CURRENT COPY OF THE SOILS REPORT FOR THIS PROJECT. ALL GRADING INCLUDING BUT NOT LIMITED TO CUT, FILL, COMPACTION, ASPHALT SECTION, SUBBASE, TRENCH EXCAVATION/BACKFILL, SITE GRUBBING, AND FOOTINGS MUST BE COORDINATED DIRECTLY WITH SOILS REPORT.
- 3. CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING, AND BRING UP ANY QUESTIONS BEFORE SUBMITTING BID. 4. CONTRACTOR SHALL PROVIDE A CONSTRUCTION SCHEDULE IN ACCORDANCE WITH THE CITY, STATE, OR COUNTY REGULATIONS FOR
- WORKING IN THE PUBLIC WAY. 5. CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ACCORDING TO GOVERNING AGENCY STANDARDS. WET DOWN DRY
- MATERIALS AND RUBBISH TO PREVENT BLOWING.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ADJACENT SURFACE IMPROVEMENTS.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY SETTLEMENT OF OR DAMAGE TO EXISTING UTILITIES. 8. THE CONTRACTOR IS RESPONSIBLE TO FURNISH ALL MATERIALS TO COMPLETE THE PROJECT.
- 9. ALL EXPOSED SURFACES WILL HAVE A TEXTURED FINISH, RUBBED, OR BROOMED. ANY "PLASTERING" OF NEW CONCRETE WILL BE
- DONE WHILE IT IS STILL "GREEN". 10. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND
- THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES. 11. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO
- LOCATE THEIR FACILITIES PRIOR TO PROCEEDING WITH CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE. CONTRACTOR SHALL START INSTALLATION AT LOW POINT OF ALL NEW GRAVITY UTILITY LINES.
- 12. ALL DIMENSIONS, GRADES, AND UTILITY DESIGN SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST, PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO THE DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS, IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- 13. NO CHANGE IN DESIGN LOCATION OR GRADE WILL BE MADE BY THE CONTRACTOR WITHOUT THE WRITTEN APPROVAL OF THE PROJECT ENGINEER.
- 14. NATURAL VEGETATION AND SOIL COVER SHALL NOT BE DISTURBED PRIOR TO ACTUAL CONSTRUCTION OF A REQUIRED FACILITY OR IMPROVEMENT. MASS CLEARING OF THE SITE IN ANTICIPATION OF CONSTRUCTION SHALL BE AVOIDED.
- 15. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, MAINTAINING, OR RESTORING ALL MONUMENTS AND MONUMENT REFERENCE MARKS WITHIN THE PROJECT SITE. CONTACT THE CITY OR COUNTY SURVEYOR FOR MONUMENT LOCATIONS AND
- CONSTRUCTION DETAILS. 16. EXISTING UTILITY INFORMATION SHOWN IS FOR INFORMATIONAL PURPOSES ONLY. IT IS DERIVED FROM ON-SITE SURVEY AND/OR
- UTILITY MAPPING PROVIDED TO THE ENGINEER, AND THEREFORE UTILITIES MAY NOT BE LOCATED CORRECTLY, EITHER HORIZONTALLY OR VERTICALLY, AND MAY NOT BE ALL INCLUSIVE. CONTRACTOR IS REQUIRED TO FOLLOW THE PROCEDURE OUTLINED BELOW: 16.1. CONTRACTOR IS REQUIRED TO LOCATE AND POTHOLE ALL EXISTING UTILITY LINES (BOTH HORIZONTALLY AND VERTICALLY) THAT AFFECT THE PROJECT CONSTRUCTION, EITHER ON-SITE OR OFF-SITE, AND DETERMINE IF THERE ARE ANY CONFLICTS WITH THE DESIGN OF THE SITE AS SHOWN ON THE APPROVED PLANS PRIOR TO ANY CONSTRUCTION. IF IT IS DETERMINED
- THAT CONFLICTS EXIST BETWEEN EXISTING UTILITIES AND DESIGN UTILITIES (OR ANOTHER ASPECT OF PROPOSED CONSTRUCTION) THE ENGINEER MUST BE NOTIFIED IMMEDIATELY TO CORRECT THE CONFLICTS BEFORE ANY WORK CAN BEGIN. IF THE CONTRACTOR FAILS TO FOLLOW THIS ABSOLUTE REQUIREMENT AND CONFLICTS ARISE DURING CONSTRUCTION THE CONTRACTOR WILL BEAR THE SOLE RESPONSIBILITY TO FIX THE CONFLICTS. 16.2. CONTRACTOR IS REQUIRED TO VERIFY THAT PROPER COVER AND PROTECTION OF EXISTING UTILITY LINES IS MAINTAINED OR ATTAINED WITHIN THE DESIGN ONCE VERIFICATION OF THE EXISTING UTILITIES IS COMPLETED AS OUTLINED IN 16.1 ABOVE.
- 16.3. IN ADDITION TO 16.1 AND 16.2 ABOVE THE CONTRACTOR WILL VERIFY DEPTHS OF UTILITIES IN THE FIELD BY "POTHOLING" A MINIMUM OF 300 FEET AHEAD OF PROPOSED PIPELINE CONSTRUCTION TO AVOID POTENTIAL CONFLICTS WITH DESIGNED PIPELINE ALIGNMENT AND GRADE AND EXISTING UTILITIES. 16.4. IF A CONFLICT ARISES BETWEEN EXISTING UTILITIES AND DESIGN UTILITIES (OR ANOTHER ASPECT OF PROPOSED
- CONSTRUCTION) AS DETERMINED UNDER 16.1, 16.2 OR 16.3 THE CONTRACTOR WILL NOTIFY THE ENGINEER IMMEDIATELY TO RESOLVE THE CONFLICT. 16.5. IF A CONFLICT ARISES BETWEEN EXISTING UTILITIES AND DESIGN UTILITIES (OR ANOTHER ASPECT OF PROPOSED CONSTRUCTION) RESULTING FROM THE CONTRACTOR'S NEGLIGENCE TO IDENTIFY AND/OR "POTHOLE" EXISTING UTILITIES AS REQUIRED IN 16.1, 16.2 AND 16.3 ABOVE, THE CONTRACTOR WILL BE REQUIRED TO RESOLVE THE CONFLICT WITHOUT ADDITIONAL COST OR CLAIM TO THE OWNER OR ENGINEER.
- 17. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER.
- 18. CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING CONSTRUCTION. 19. AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE
- SAWCUT TO A CLEAN, SMOOTH EDGE. 20. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MOST RECENT, ADOPTED EDITION OF ADA ACCESSIBILITY
- GUIDELINES. 21. CONTRACTOR SHALL, AT THE TIME OF BIDDING AND THROUGHOUT THE PERIOD OF THE CONTRACT, BE LICENSED IN THE STATE OF
- UTAH AND SHALL BE BONDABLE FOR AN AMOUNT REQUIRED BY THE OWNER. 22. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL WATER, POWER, SANITARY FACILITIES AND TELEPHONE SERVICES AS
- REQUIRED FOR THE CONTRACTOR'S USE DURING CONSTRUCTION. 23. CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY SCHEDULING INSPECTION AND TESTING OF ALL FACILITIES CONSTRUCTED UNDER THIS CONTRACT. ALL TESTING SHALL CONFORM TO THE REGULATORY AGENCY'S STANDARD SPECIFICATIONS. ALL RE-TESTING AND/OR RE-INSPECTION SHALL BE PAID FOR BY THE CONTRACTOR.
- 24. IF EXISTING IMPROVEMENTS NEED TO BE DISTURBED AND/OR REMOVED FOR THE PROPER PLACEMENT OF IMPROVEMENTS TO BE CONSTRUCTED BY THESE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING IMPROVEMENTS FROM DAMAGE. COST OF REPLACING OR REPAIRING EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS REQUIRING REMOVAL AND/OR REPLACEMENT. THERE WILL BE NO EXTRA COST DUE TO THE CONTRACTOR FOR REPLACING OR REPAIRING EXISTING IMPROVEMENTS.
- 25. WHENEVER EXISTING FACILITIES ARE REMOVED, DAMAGED, BROKEN, OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE PLANS OR SPECIFICATIONS, SAID FACILITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE WITH MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL EXISTING FACILITIES. THE FINISHED PRODUCT SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER, THE ENGINEER, AND THE RESPECTIVE REGULATORY AGENCY.
- 26. CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL STRUCTURES AND OTHER FACILITIES. RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR. PRIOR TO ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL DELIVER TO THE ENGINEER ONE SET OF NEATLY MARKED RECORD DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. RECORD DRAWINGS SHALL BE REVIEWED AND THE COMPLETE RECORD DRAWING SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS
- 27. WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.
- 28. ALL EXISTING GATES AND FENCES TO REMAIN UNLESS OTHERWISE NOTED ON PLANS. PROTECT ALL GATES AND FENCES FROM DAMAGE
- 29. ALL EXISTING TREES ARE TO REMAIN UNLESS OTHERWISE NOTED ON PLANS. PROTECT ALL TREES FROM DAMAGE

REDLINED AS A PRECONDITION TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL ACCEPTANCE.

- 30. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE GOVERNING AGENCY PRIOR TO THE PLACEMENT.
- 31. CONTRACTORS ARE RESPONSIBLE FOR ALL OSHA REQUIREMENTS ON THE PROJECT SITE
- 32. A UPDES (UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM) PERMIT IS REQUIRED FOR ALL CONSTRUCTION ACTIVITIES 1 ACRE OR MORE AS WELL AS A STORM WATER POLLUTION PREVENTION PLAN.

UTILITY NOTES

- 1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS, CITY AND STATE REQUIREMENTS AND THE MOST RECENT EDITIONS OF THE FOLLOWING: THE INTERNATIONAL PLUMBING CODE, UTAH DRINKING WATER REGULATIONS, APWA MANUAL OF STANDARD PLANS AND SPECIFICATIONS. THE CONTRACTOR IS REQUIRED TO ADHERE TO ALL OF THE ABOVE-MENTIONED DOCUMENTS UNLESS OTHERWISE NOTED AND APPROVED BY THE ENGINEER.
- 2. CONTRACTOR SHALL COORDINATE LOCATION OF NEW "DRY UTILITIES" WITH THE APPROPRIATE UTILITY COMPANY. INCLUDING BUT NOT LIMITED TO: TELEPHONE & INTERNET SERVICE, GAS SERVICE, CABLE, AND POWER.
- 3. EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS BASED ON ON-SITE SURVEY. PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE, IN THE FIELD, THEIR MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY BLUE STAKES AT 1-800-662-4111 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK. THE CONTRACTOR SHALL RECORD THE BLUE STAKES ORDER NUMBER AND FURNISH ORDER NUMBER TO OWNER AND ENGINEER PRIOR TO ANY EXCAVATION. IT WILL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DIRECTLY CONTACT ANY OTHER UTILITY COMPANIES THAT ARE NOT MEMBERS OF BLUE STAKES. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. ANY REPAIRS NECESSARY TO DAMAGED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICE TO THE PROJECT.
- 4. CARE SHOULD BE TAKEN IN ALL EXCAVATIONS DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES. EXCAVATION REQUIRED WITHIN PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT CONTRACTOR'S EXPENSE
- 5. TRENCH BACKFILL MATERIAL AND COMPACTION TESTS ARE TO BE TAKEN PER APWA STANDARD SPECIFICATIONS (CURRENT EDITION), SECTION 33 05 20 - BACKFILLING TRENCHES, OR AS REQUIRED BY THE GEOTECHNICAL REPORT IF NATIVE MATERIALS ARE USED. NO NATIVE MATERIALS ARE ALLOWED IN THE PIPE ZONE. THE MAXIMUM LIFT FOR BACKFILLING EXCAVATIONS IS DETERMINED BY THE GEOTECHNICAL RECOMMENDATIONS.
- 6. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFORMING TO LOCAL AND FEDERAL CODES GOVERNING SHORING AND BRACING OF EXCAVATIONS AND TRENCHES AND FOR THE PROTECTION OF WORKERS.
- 7. THE CONTRACTOR IS REQUIRED TO KEEP ALL CONSTRUCTION ACTIVITIES WITHIN THE APPROVED PROJECT LIMITS. THIS INCLUDES, BUT IS NOT LIMITED TO VEHICLE AND EQUIPMENT STAGING, MATERIAL STORAGE AND LIMITS OF TRENCH EXCAVATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMISSION AND/OR EASEMENTS FROM THE APPROPRIATE GOVERNING ENTITY AND/OR INDIVIDUAL PROPERTY OWNER(S) FOR WORK OR STAGING OUTSIDE OF THE PROJECT LIMITS.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE, CAUSED BY ANY CONDITION INCLUDING SETTLEMENT, TO EXISTING UTILITIES FROM WORK PERFORMED AT OR NEAR EXISTING UTILITIES. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT ALL EXISTING PUBLIC AND PRIVATE ROADWAY AND UTILITY FACILITIES. DAMAGE TO EXISTING FACILITIES CAUSED BY THE CONTRACTOR MUST BE REPAIRED BY THE CONTRACTOR AT HIS/HER EXPENSE TO THE SATISFACTION OF THE OWNER OF SAID FACILITIES.
- 9. ALL WATER LINE AND SEWER LINE INSTALLATION AND TESTING TO BE IN ACCORDANCE WITH LOCAL GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
- 10. ALL MANHOLES, HYDRANTS, VALVES, CLEANOUT BOXES, CATCH BASINS, METERS, ETC. MUST BE RAISED OR LOWERED TO FINAL GRADE PER APWA (CURRENT EDITION) STANDARDS AND INSPECTOR REQUIREMENTS. CONCRETE COLLARS MUST BE CONSTRUCTED ON ALL MANHOLES, CLEANOUT BOXES, CATCH BASINS, AND VALVES PER APWA STANDARDS. ALL MANHOLE, CATCH BASIN, OR CLEANOUT BOX CONNECTIONS MUST BE MADE WITH THE PIPE CUT FLUSH WITH THE INSIDE OF THE BOX AND GROUTED OR SEALED.
- 11. CONTRACTOR SHALL NOT ALLOW ANY GROUNDWATER OR DEBRIS TO ENTER THE NEW OR EXISTING PIPE DURING CONSTRUCTION.
- 12. SILT AND DEBRIS ARE TO BE CLEANED OUT OF ALL STORM DRAIN BOXES. CATCH BASINS ARE TO BE MAINTAINED IN A CLEANED CONDITION AS NEEDED UNTIL AFTER THE FINAL BOND RELEASE INSPECTION.
- 13. CONTRACTOR SHALL CLEAN ASPHALT, TAR OR OTHER ADHESIVES OFF OF ALL MANHOLE LIDS AND INLET GRATES TO ALLOW ACCESS.
- 14. EACH TRENCH SHALL BE EXCAVATED SO THAT THE PIPE CAN BE LAID TO THE ALIGNMENT AND GRADE AS REQUIRED. THE TRENCH WALL SHALL BE SO BRACED THAT THE WORKMEN MAY WORK SAFELY AND EFFICIENTLY. ALL TRENCHES SHALL BE DRAINED SO THE PIPE LAYING MAY TAKE PLACE IN DEWATERED CONDITIONS.
- 15. CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES AMPLE MEANS AND DEVICES WITH WHICH TO REMOVE PROMPTLY AND TO PROPERLY DISPOSE OF ALL WATER ENTERING THE TRENCH EXCAVATION.
- 16. ALL SEWER LINES AND SEWER SERVICES SHALL HAVE A MINIMUM SEPARATION OF 10 FEET, EDGE TO EDGE, FROM THE WATER LINES. IF A 10 FOOT SEPARATION CAN NOT BE MAINTAINED, CONSTRUCT PER GOVERNING AGENCY'S MINIMUM SEPARATION STANDARDS.
- 17. CONTRACTOR SHALL INSTALL THRUST BLOCKING AT ALL WATERLINE ANGLE POINTS AND TEES. 18. ALL UNDERGROUND UTILITIES SHALL BE IN PLACE PRIOR TO INSTALLATION OF CURB, GUTTER, SIDEWALK AND STREET
- PAVING. 19. CONTRACTOR SHALL INSTALL MAGNETIC LOCATING TAPE CONTINUOUSLY OVER ALL NONMETALLIC PIPE.
- TRAFFIC CONTROL AND SAFETY NOTES
- 1. TRAFFIC CONTROL AND STRIPING TO CONFORM TO THE CURRENT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
- 2. BARRICADING AND DETOURING SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE CURRENT M.U.T.C.D.
- 3. NO STREET SHALL BE CLOSED TO TRAFFIC WITHOUT WRITTEN PERMISSION FROM THE APPROPRIATE AGENCY, EXCEPT WHEN DIRECTED BY LAW ENFORCEMENT OR FIRE OFFICIALS.
- 4. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROVIDE FOR SMOOTH TRAFFIC FLOW AND SAFETY. ACCESS SHALL BE MAINTAINED FOR ALL PROPERTIES ADJACENT TO THE WORK.
- 5. DETOURING OPERATIONS FOR A PERIOD OF SIX CONSECUTIVE CALENDAR DAYS, OR MORE, REQUIRE THE INSTALLATION OF TEMPORARY STREET STRIPING AND REMOVAL OF INTERFERING STRIPING BY SANDBLASTING. THE DETOURING STRIPING PLAN OR CONSTRUCTION TRAFFIC CONTROL PLAN MUST BE SUBMITTED TO THE GOVERNING AGENCY FOR REVIEW AND APPROVAL
- 6. ALL TRAFFIC CONTROL DEVICES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE END OF THE WORK TO THE SATISFACTION OF THE GOVERNING AGENCY.
- 7. TRAFFIC CONTROL DEVICES (TCDs) SHALL REMAIN VISIBLE AND OPERATIONAL AT ALL TIMES. 8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HEREUNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
- 9. THE CONTRACTOR SHALL PROVIDE BARRICADES, SIGNS, FLASHERS, OTHER EQUIPMENT AND FLAG PERSONS NECESSARY TO INSURE THE SAFETY OF WORKERS AND VISITORS.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UTAH TRANSIT AUTHORITY (UTA) IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.

DEMOLITION NOTES

- 1. EXISTING UTILITY INFORMATION SHOWN IS FOR INFORMATIONAL PURPOSES ONLY. IT IS DERIVED FROM ON-SITE SURVEY AND MAY NOT BE LOCATED CORRECTLY AND IS NOT ALL INCLUSIVE. CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES WITHIN THE PROJECT LIMITS BEFORE BEGINNING DEMOLITION/CONSTRUCTION.
- 2. THERE MAY BE BURIED UTILITIES WITHIN THE LIMITS OF DISTURBANCE THAT ARE NOT SHOWN ON THE PLANS DUE TO LACK OF MAPPING OR RECORD INFORMATION. CONTRACTOR SHALL NOTIFY THE ENGINEER WHEN UNEXPECTED UTILITIES ARE DISCOVERED.
- 3. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR LOCATING AND PROTECTING FROM DAMAGE ALL EXISTING UTILITIES AND IMPROVEMENTS WHETHER OR NOT SHOWN ON THESE PLANS. THE FACILITIES AND IMPROVEMENTS ARE BELIEVED TO BE CORRECTLY SHOWN BUT THE CONTRACTOR IS REQUIRED TO SATISFY HIMSELF AS TO THE COMPLETENESS AND ACCURACY OF THE LOCATIONS. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE HIMSELF WITH THE SITE AND SHALL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY, OR INDIRECTLY, FROM HIS OPERATIONS, WHETHER OR NOT SAID FACILITIES ARE SHOWN ON THESE PLANS.

GRADING AND DRAINAGE NOTES 1. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE P

- RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT AND 2. THE CONTRACTOR SHALL STRIP AND CLEAR THE TOPSOIL, MAJOR ROO
- BUILDING AND PAVEMENT AREAS PRIOR TO SITE GRADING. (THE TOPS LANDSCAPED AREAS.)
- 3. THE CONTRACTOR SHALL REMOVE ALL ORGANIC MATERIAL AND OTHE GRADING FILL OR BASE COURSE. THE AREA SHOULD BE PROOF-ROLL AREAS ARE ENCOUNTERED, THE CONTRACTOR SHALL REMOVE THE S
- 4. ALL DEBRIS PILES AND BERMS SHOULD BE REMOVED AND HAULED AW LANDSCAPED AREAS.
- 5. THE CONTRACTOR SHALL CONSTRUCT THE BUILDING PAD TO THESE D CONTRACT, AND STRICTLY ADHERE TO THE SITE PREPARATION AND G GEOTECHNICAL REPORT.
- 6. THE CONTRACTOR SHALL GRADE THE PROJECT SITE TO PROVIDE A SM ASPHALT, CURB AND GUTTER, AND ADJOINING SITE IMPROVEMENTS.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE AND DEBRIS TRAVELING THOSE STREETS.
- 8. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL CONDITIONS AND REC REPORT AND TAKE ALL NECESSARY PRECAUTIONS AND RECOMMENDE
- PRACTICES. 9. THE CONTRACTOR SHALL TAKE APPROPRIATE GRADING MEASURES
- BASINS. 10. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLA THE CONTRACTORS' FULL RESPONSIBILITY TO CONTACT THE VARIOUS PRIOR TO PROCEEDING WITH CONSTRUCTION. NO ADDITIONAL COMPE
- 11. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENE SLOPES SHOWN.
- 12. THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS N ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING RESPONSIBILITY OF THE CONTRACTOR.
- 13. THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH T THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ACTIVITIES 1 ACRE OR MORE IN SIZE ARE REQUIRED TO PROVIDE A ST
- 14. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EF 15. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUIL CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. TH

16. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS, AND AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCT PUBLICLY-OWNED PROPERTY DURING CONSTRUCTION AND UPON COI PROPERTY, PRIVATE OR PUBLIC, SHALL BE MAINTAINED IN A CLEAN, S

ABBREVIATIONS

WATER LINE

SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT AND ALL RELATED ADDENDUMS.						
THE CONTRACTOR SHALL STRIP AND CLEAR THE TOPSOIL, MAJOR ROOTS AND ORGANIC MATERIAL FROM ALL PROPOSED BUILDING AND PAVEMENT AREAS PRIOR TO SITE GRADING. (THE TOPSOIL MAY BE STOCKPILED FOR LATER USE IN LANDSCAPED AREAS.)						
THE CONTRACTOR SHALL REMOVE GRADING FILL OR BASE COURSE. AREAS ARE ENCOUNTERED, THE C	THE CONTRACTOR SHALL REMOVE ALL ORGANIC MATERIAL AND OTHER DELETERIOUS MATERIALS PRIOR TO PLACING GRADING FILL OR BASE COURSE. THE AREA SHOULD BE PROOF-ROLLED TO IDENTIFY ANY SOFT AREAS. WHERE SOFT AREAS ARE ENCOUNTERED, THE CONTRACTOR SHALL REMOVE THE SOIL AND REPLACE WITH COMPACTED FILL.					
ALL DEBRIS PILES AND BERMS SHO LANDSCAPED AREAS.	OULD BE REMOVED AND HAULED AWAY FROM SITE OR USED AS GENERAL FILL IN					
THE CONTRACTOR SHALL CONSTR CONTRACT, AND STRICTLY ADHERI GEOTECHNICAL REPORT.	UCT THE BUILDING PAD TO THESE DESIGN PLANS AS PART OF THE SITE GRADING E TO THE SITE PREPARATION AND GRADING REQUIREMENTS OUTLINED IN THE					
THE CONTRACTOR SHALL GRADE T ASPHALT, CURB AND GUTTER, AND	THE PROJECT SITE TO PROVIDE A SMOOTH TRANSITION BETWEEN NEW AND EXISTING) ADJOINING SITE IMPROVEMENTS.					
THE CONTRACTOR SHALL BE RESP TRAVELING THOSE STREETS.	PONSIBLE FOR DAMAGE AND DEBRIS ON ADJACENT STREETS WHEN EQUIPMENT IS					
THE CONTRACTOR SHALL BE FAMIL REPORT AND TAKE ALL NECESSAR PRACTICES.	LIAR WITH ALL CONDITIONS AND RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL Y PRECAUTIONS AND RECOMMENDED PROCEDURES TO ASSURE SOUND GRADING					
THE CONTRACTOR SHALL TAKE AP BASINS.	PROPRIATE GRADING MEASURES TO DIRECT STORM SURFACE RUNOFF TOWARDS CATCH					
THE LOCATIONS OF UNDERGROUN THE CONTRACTORS' FULL RESPON PRIOR TO PROCEEDING WITH CONS DAMAGE AND REPAIR TO THESE FA	D FACILITIES SHOWN ON THESE PLANS ARE BASED ON ON-SITE SURVEY. IT SHALL BE ISIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES STRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ACILITIES CAUSED BY HIS WORK FORCE.					
IT SHALL BE THE RESPONSIBILITY (OF THIS PROJECT AND THE RELATE SLOPES SHOWN.	OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS ED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES, AND					
THE CONTRACTOR IS WARNED THA ADDITIONAL MATERIAL REQUIRED RESPONSIBILITY OF THE CONTRAC	AT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE TOR.					
THE GRADING CONTRACTOR IS RE THE PROJECT STORM WATER POLI ACTIVITIES 1 ACRE OR MORE IN SIZ	SPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF LUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT. ALL CONTRACTOR ZE ARE REQUIRED TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN.					
ALL CUT AND FILL SLOPES SHALL E	BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.					
THE USE OF POTABLE WATER WITH CONSOLIDATION OF BACKFILL OR I PERMITS FOR CONSTRUCTION WA	HOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY TER FROM GOVERNING AGENCY.					
THE CONTRACTOR SHALL MAINTAI AND USABLE CONDITION. ALL SPIL PUBLICLY-OWNED PROPERTY DUR PROPERTY, PRIVATE OR PUBLIC, S	N THE STREETS, SIDEWALKS, AND ALL OTHER PUBLIC RIGHT-OF-WAYS IN A CLEAN, SAFE LS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE ING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT HALL BE MAINTAINED IN A CLEAN, SAFE, AND USABLE CONDITION.					
ABBREVIATIONS						
APWA AR ASTM AWWA BOS BVC C C CB CF CL CO COMM CONC CONT	AMERICAN PUBLIC WORKS ASSOCIATION ACCESSIBLE ROUTE AMERICAN SOCIETY FOR TESTING AND MATERIALS AMERICAN WATER WORKS ASSOCIATION BOTTOM OF STEP BEGIN VERTICAL CURVE CURVE CATCH BASIN CURB FACE OR CUBIC FEET CENTER LINE CLEAN OUT COMMUNICATION CONCRETE CONTINUOUS					

- \	SECTION CORNER
÷	EXISTING MONUMENT
	PROPOSED MONUMENT
Ĵ	EXISTING REBAR AND CAP
ο	SET ENSIGN REBAR AND CAP
^{WM}	EXISTING WATER METER
Ŏ	PROPOSED WATER METER
Ŵ	EXISTING WATER MANHOLE
\bigcirc	PROPOSED WATER MANHOLE
W	EXISTING WATER BOX
wv ▷ ◁	EXISTING WATER VALVE
$\overset{\scriptscriptstyle{WV}}{\blacktriangleright}$	PROPOSED WATER VALVE
	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT
	PROPOSED FIRE DEPARTMENT CONNECTION
SWV	EXISTING SECONDARY WATER VALVE
SWV M	PROPOSED SECONDARY WATER VALVE
[IRR]	EXISTING IRRIGATION BOX
	EXISTING IRRIGATION VALVE
	PROPOSED IRRIGATION VALVE
LS)	EXISTING SANITARY SEWER MANHOLE
S	PROPOSED SANITARY SEWER MANHOLE
ي م	EXISTING SANITARY CLEAN OUT
00 (G)	EXISTING STORM DRAIN CLEAN OUT BOX
	PROPOSED STORM DRAIN CLEAN OUT BOX
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	EXISTING EDGE OF ASPHALT
	PROPOSED EDGE OF ASPHALT
	EXISTING STRIPING
	PROPOSED STRIPING
— _ x — _	EXISTING FENCE
X	PROPOSED FENCE
	EXISTING FLOW LINE
	PROPOSED FLOW LINE
	GRADE BREAK
— — sd — —	EXISTING STORM DRAIN LINE
SD	PROPOSED STORM DRAIN LINE
	ROOF DRAIN LINE
	CATCHMENTS
— — HWL — —	HIGHWATER LINE
— — ss — —	EXISTING SANITARY SEWER
SS	PROPOSED SANITARY SEWER LINE
	PROPOSED SAN. SWR. SERVICE LINE
— — Id — —	EXISTING LAND DRAIN LINE
LD	PROPOSED LAND DRAIN LINE
	PROPOSED LAND DRAIN SERVICE LINE
— — w — —	EXISTING CULINARY WATER LINE
w	PROPOSED CULINARY WATER LINE
	PROPOSED CULINARY WATER SERVICE LINE
— — sw — —	EXISTING SECONDARY WATER LINE
SW	PROPOSED SECONDARY WATER LINE
	PROPOSED SEC. WATER SERVICE LINE
— — irr — —	EXISTING IRRIGATION LINE
—— IRR ——	PROPOSED IRRIGATION LINE
ohp	EXISTING OVERHEAD POWER LINE
— — e — —	EXISTING ELECTRICAL LINE
— — g — —	EXISTING GAS LINE
— — t — —	EXISTING TELEPHONE LINE
AR —	ACCESSIBLE ROUTE
	SAW CUT LINE
	STRAW WATTLE
	TEMPORARY BERM
——— SF ———	TEMPORARY SILT FENCE
LOD	LIMITS OF DISTURBANCE
	EXISTING WALL
	PROPOSED WALL
\sim	EXISTING CONTOURS
\sim	PROPOSED CONTOURS
	BUILDABLE AREA WITHIN SETBACKS
	PUBLIC DRAINAGE EASEMENT
	EXISTING ASPHALT TO BE REMOVED
	PROPOSED ASPHALT
	EXISTING CURB AND GUTTER
	PROPOSED CURB AND GUTTER
a statistica a sub-	PROPOSED REVERSE PAN CURB AND GUTTE
	TRANSITION TO REVERSE PAN CURB
	CONCRETE TO BE REMOVED
	EXISTING CONCRETE
	PROPOSED CONCRETE
	BUILDING TO BE REMOVED
	EXISTING BUILDING
	PROPOSED BUILDING

NOTE: MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PLAN SET.

DENSE VEGETATION

GENERAL

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FIRE ACCESS

PLAN

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SCOPE OF WORK: PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

SAWCUT, REMOVE, AND PROPERLY DISPOSE OF EXISTING CONCRETE CURB AND GUTTER TO THE NEAREST

- JOINT (2) SAWCUT, REMOVE, AND PROPERLY DISPOSE OF EXISTING CONCRETE SIDEWALK TO THE NEAREST JOINT.
- (3) REMOVE EXISTING LANDSCAPING IN THIS AREA. RETROFIT AND REPAIR IRRIGATION SYSTEM AS NEEDED.
- (4) REMOVE AND PROPERLY DISPOSE OF EXISTING FENCE.
- PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, SIGNS, ETC. (TYPICAL UNLESS OTHERWISE NOTED).
- 6 SAWCUT EXISTING ASPHALT PAVEMENT TO PROVIDE A CLEAN EDGE FOR THE TRANSITION BETWEEN EXISTING AND PROPOSED ASPHALT PAVEMENT.
- (7) REMOVE AND PROPERLY DISPOSE OF EXISTING ASPHALT PAVEMENT.
- (8) REMOVE AND DISPOSE OF CONCRETE CURB WALL
- (9) REMOVE EXISTING PAVEMENT MARKINGS FROM EXISTING ASPHALT PAVEMENT BY GRINDING OR WATER BLASTING, OR APPROVED EQUAL, TO MINIMIZE SURFACE SCARRING.

REMOVE AND PROPERLY DISPOSE OF EXISTING STRUCTURES, CONCRETE SLABS, STAIRS, ETC., INCLUDING ALL ELECTRICAL APPURTENANCES, IN THIS AREA WHETHER OR NOT IDENTIFIED ON PLANS. CONTRACTOR TO FILL IN ALL HOLES CREATED DURING DEMOLITION WITH STRUCTURAL FILL TO PROPER SUBGRADE ELEVATION.

- **GENERAL NOTES**
- 1. ALL WORK TO COMPLY WITH THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
- 2. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY THE LOCATIONS OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. THE architector test CONTRACTOR IS TO VERIFY ALL CONNECTION POINTS WITH THE EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN. IF CONFLICTS WITH EXISTING UTILITIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER
- 3. ALL SURFACE IMPROVEMENTS DISTURBED BY CONSTRUCTION SHALL BE RESTORED OR REPLACED, INCLUDING TREES AND DECORATIVE SHRUBS, SOD, FENCES, WALLS AND STRUCTURES, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN ON THE CONTRACT DOCUMENTS.
- 4. ALL CONSTRUCTION SIGNAGE, BARRICADES, TRAFFIC CONTROL DEVICES, ETC. SHALL CONFORM TO THE LATEST EDITION OF THE M.U.T.C.D. THE CONTRACTOR WILL MAINTAIN SUCH SO THAT THEY ARE PROPERLY
- PLACED AND VISIBLE AT ALL TIMES. 5. SIDEWALKS AND CURBS DESIGNATED TO BE DEMOLISHED SHALL BE DEMOLISHED TO THE NEAREST
- EXPANSION JOINT, MATCHING THESE PLANS AS CLOSELY AS POSSIBLE. THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, E
- UNLESS OTHERWISE NOTED ON THESE PLANS. **L____** | || |------

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PROJECT FOR	THE SOUTH SANPETE SCHOOL	DISTRICT BOARD OF EDUCATION	39 SOUTH MAIN MANTI, UTAH 84642	
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GENERAL NOTES

- 1. ALL WORK TO COMPLY WITH THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
- 2. ALL IMPROVEMENTS MUST COMPLY WITH ADA STANDARDS AND RECOMMENDATIONS.
- 3. SEE LANDSCAPE/ARCHITECTURAL PLANS FOR CONCRETE MATERIAL, COLOR, FINISH, AND SCORE PATTERNS
- THROUGHOUT SITE. 4. ALL PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE M.U.T.C.D. (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES).
- 5. ALL SURFACE IMPROVEMENTS DISTURBED BY CONSTRUCTION SHALL BE RESTORED OR REPLACED, INCLUDING TREES AND DECORATIVE SHRUBS, SOD, FENCES, WALLS AND STRUCTURES, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN ON THE CONTRACT DOCUMENTS.
- 6. NOTIFY ENGINEER OF ANY DISCREPANCIES IN DESIGN OR STAKING BEFORE PLACING CONCRETE OR ASPHALT.
- 7. THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS.

GENERAL NOTES

- 1. ALL WORK TO COMPLY WITH THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
- 2. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY THE LOCATIONS OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. THE a r c h i t e c t s CONTRACTOR IS TO VERIFY ALL CONNECTION POINTS WITH THE EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN. IF CONFLICTS WITH EXISTING UTILITIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE.
- 3. ALL SANITARY SEWER INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY STANDARD PLANS AND SPECIFICATIONS.
- 4. ALL WATER INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY OR APWA STANDARD PLANS AND SPECIFICATIONS.
- 6. DEFLECT OR LOOP ALL WATERLINES TO AVOID CONFLICTS WITH OTHER UTILITIES PER GOVERNING AGENCY'S
- STANDARDS AND SPECIFICATIONS. 7. PROJECT SHALL COMPLY WITH ALL UTAH DIVISION OF DRINKING WATER RULES AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, THOSE PERTAINING TO BACKFLOW PROTECTION AND CROSS CONNECTION PREVENTION.
- 8. THE CONTRACTOR IS TO COORDINATE ALL UTILITIES WITH MECHANICAL/PLUMBING PLANS.
- 9. NOTIFY ENGINEER OF ANY DISCREPANCIES IN DESIGN OR STAKING BEFORE PLACING UTILITY STRUCTURES
- OR PIPES.
- AGENCY'S STANDARDS AND SPECIFICATIONS.

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10. THE CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITIES AS NEEDED PER LOCAL GOVERNING

OVERALL SITE AND UTILITY PLAN

GENERAL NOTES

- 1. ALL WORK TO COMPLY WITH THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
- 2. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY THE LOCATIONS OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. THE
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- PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE. 3. ALL SANITARY SEWER INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY STANDARD PLANS AND SPECIFICATIONS.
- 4. ALL WATER INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY OR APWA STANDARD PLANS AND
- SPECIFICATIONS. 6. DEFLECT OR LOOP ALL WATERLINES TO AVOID CONFLICTS WITH OTHER UTILITIES PER GOVERNING AGENCY'S
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- 8. THE CONTRACTOR IS TO COORDINATE ALL UTILITIES WITH MECHANICAL/PLUMBING PLANS. 9. NOTIFY ENGINEER OF ANY DISCREPANCIES IN DESIGN OR STAKING BEFORE PLACING UTILITY STRUCTURES
- OR PIPES. 10. THE CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITIES AS NEEDED PER LOCAL GOVERNING
- AGENCY'S STANDARDS AND SPECIFICATIONS.
- UNLESS OTHERWISE NOTED ON THESE PLANS.

GENERAL NOTES

- 1. ALL WORK TO COMPLY WITH THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS. 2. ALL IMPROVEMENTS MUST COMPLY WITH ADA STANDARDS AND RECOMMENDATIONS. 3. SEE LANDSCAPE/ARCHITECTURAL PLANS FOR CONCRETE MATERIAL, COLOR, FINISH, AND SCORE PATTERNS
- THROUGHOUT SITE.
- 4. ALL PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE M.U.T.C.D. (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES).
- 5. ALL SURFACE IMPROVEMENTS DISTURBED BY CONSTRUCTION SHALL BE RESTORED OR REPLACED, INCLUDING TREES AND DECORATIVE SHRUBS, SOD, FENCES, WALLS AND STRUCTURES, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN ON THE CONTRACT DOCUMENTS.
- rd rd rd rd 7. THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS.

11. THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC.

SCOPE OF WORK:

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

- ASPHALT PAVEMENT PER GEOTECHNICAL REPORT AND DETAIL 1/C400.
- (2) CONCRETE PAVEMENT PER GEOTECHNICAL REPORT AND DETAIL 2/C400.
- 3 4" THICK CONCRETE SIDEWALK PER DETAIL 3/C400
- (4) 30" TYPE "A" CURB AND GUTTER PER DETAIL 4/C400
- (5) INSTALL BOLLARD PER DETAIL 5/C400
- (6) 30" REVERSE PAN CURB AND GUTTER PER DETAIL 7/C400
- (7) RESET UTILITY TO FINISH GRADE SURFACE AND PROVIDE CONCRETE COLLAR
- (8) ADA ACCESS RAMP PER APWA PLAN NO. 238 AND DETAIL 8/C400
- (9) CURB CUT PER APWA PLAN NO. 222 AND DETAIL 9/C400
- (10) ASPHALT T-PATCH PER APWA PLAN NO. 255 AND DETAIL 10/C400
- 4" YELLOW STRIPING PER M.U.T.C.D. STANDARDS AND SPECIFICATIONS

GENERAL NOTES

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- 2. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY THE LOCATIONS OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. THE
- RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN. IF CONFLICTS WITH EXISTING UTILITIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE.
- 3. ALL SANITARY SEWER INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY STANDARD PLANS AND SPECIFICATIONS.
- 4. ALL WATER INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY OR APWA STANDARD PLANS AND
- SPECIFICATIONS. 6. DEFLECT OR LOOP ALL WATERLINES TO AVOID CONFLICTS WITH OTHER UTILITIES PER GOVERNING AGENCY'S
- STANDARDS AND SPECIFICATIONS. 7. PROJECT SHALL COMPLY WITH ALL UTAH DIVISION OF DRINKING WATER RULES AND REGULATIONS INCLUDING,
- 8. THE CONTRACTOR IS TO COORDINATE ALL UTILITIES WITH MECHANICAL/PLUMBING PLANS.
- 9. NOTIFY ENGINEER OF ANY DISCREPANCIES IN DESIGN OR STAKING BEFORE PLACING UTILITY STRUCTURES OR PIPES.
- 10. THE CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITIES AS NEEDED PER LOCAL GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
- 11. THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS.

GENERAL NOTES

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- 1. ALL WORK TO COMPLY WITH THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS. 2. ALL IMPROVEMENTS MUST COMPLY WITH ADA STANDARDS AND RECOMMENDATIONS. 3. SEE LANDSCAPE/ARCHITECTURAL PLANS FOR CONCRETE MATERIAL, COLOR, FINISH, AND SCORE PATTERNS
- THROUGHOUT SITE. 4. ALL PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE M.U.T.C.D. (MANUAL ON UNIFORM
- TRAFFIC CONTROL DEVICES). 5. ALL SURFACE IMPROVEMENTS DISTURBED BY CONSTRUCTION SHALL BE RESTORED OR REPLACED, INCLUDING TREES AND DECORATIVE SHRUBS, SOD, FENCES, WALLS AND STRUCTURES, WHETHER OR NOT
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- 7. THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS.

CONTRACTOR IS TO VERIFY ALL CONNECTION POINTS WITH THE EXISTING UTILITIES. THE CONTRACTOR IS

GENERAL NOTES

- 1. ALL WORK TO COMPLY WITH THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS. 2. ALL IMPROVEMENTS MUST COMPLY WITH ADA STANDARDS AND RECOMMENDATIONS.
- 3. ALL WORK SHALL COMPLY WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER POSSIBLY INCLUDING, BUT NOT LIMITED TO, REMOVAL OF UNCONSOLIDATED FILL, ORGANICS, AND DEBRIS, PLACEMENT OF SUBSURFACE DRAIN LINES AND GEOTEXTILE, AND OVEREXCAVATION OF UNSUITABLE BEARING MATERIALS AND PLACEMENT OF ACCEPTABLE FILL MATERIAL.
- 4. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE EXISTING SOIL CONDITIONS. 5. ELEVATIONS HAVE BEEN TRUNCATED FOR CLARITY. XX.XX REPRESENTS AN ELEVATION OF 48XX.XX ON
- THESE PLANS. 6. LANDSCAPED AREAS REQUIRE SUBGRADE TO BE MAINTAINED AT A SPECIFIC ELEVATION BELOW FINISHED
- GRADE AND REQUIRE SUBGRADE TO BE PROPERLY PREPARED AND SCARIFIED. SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.
- 7. SLOPE ALL LANDSCAPED AREAS AWAY FROM BUILDING FOUNDATIONS TOWARD CURB AND GUTTER OR STORM DRAIN INLETS.
- 8. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY THE LOCATIONS OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. THE CONTRACTOR IS TO VERIFY ALL CONNECTION POINTS WITH THE EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN. IF CONFLICTS WITH EXISTING UTILITIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE.
- 9. ALL STORM DRAIN INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY OR APWA STANDARD PLANS AND SPECIFICATIONS.
- L - - - 10. ENSURE MINIMUM COVER OVER ALL STORM DRAIN PIPES PER MANUFACTURER'S RECOMMENDATIONS. NOTIFY ENGINEER IF MINIMUM COVER CANNOT BE ATTAINED. 11. ALL FACILITIES WITH DOWNSPOUTS/ROOF DRAINS SHALL BE CONNECTED TO THE STORM DRAIN SYSTEM. SEE
 - PLUMBING PLANS FOR DOWNSPOUT/ROOF DRAIN LOCATIONS AND SIZES. ALL ROOF DRAINS TO HAVE MINIMUM 1% SLOPE.
 - 12. THE CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITIES AS NEEDED PER LOCAL GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
 - 13. NOTIFY ENGINEER OF ANY DISCREPANCIES IN DESIGN OR STAKING BEFORE PLACING CONCRETE, ASPHALT, OR STORM DRAIN STRUCTURES OR PIPES.

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OVERALL GRADING AND DRAINAGE PLAN

(1) CATCH BASIN PER MANTI STANDARDS AND SPECIFICATIONS.

- (2) GRAVEL SUMP PER MANTI STANDARDS AND SPECIFICATIONS. SEE DETAIL 6/C400
- 3 APPROXIMATE ROOF DRAIN LOCATION. SEE ARCHITECTURAL PLAN

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- 2. ALL IMPROVEMENTS MUST COMPLY WITH ADA STANDARDS AND RECOMMENDATIONS. 3. ALL WORK SHALL COMPLY WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER POSSIBLY INCLUDING, BUT NOT LIMITED TO, REMOVAL OF UNCONSOLIDATED FILL, ORGANICS, AND DEBRIS, PLACEMENT OF SUBSURFACE DRAIN LINES AND GEOTEXTILE, AND OVEREXCAVATION OF UNSUITABLE BEARING MATERIALS AND PLACEMENT OF ACCEPTABLE FILL MATERIAL.
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- THESE PLANS. 6. LANDSCAPED AREAS REQUIRE SUBGRADE TO BE MAINTAINED AT A SPECIFIC ELEVATION BELOW FINISHED GRADE AND REQUIRE SUBGRADE TO BE PROPERLY PREPARED AND SCARIFIED. SEE LANDSCAPE PLANS FOR
- ADDITIONAL INFORMATION. 7. SLOPE ALL LANDSCAPED AREAS AWAY FROM BUILDING FOUNDATIONS TOWARD CURB AND GUTTER OR
- STORM DRAIN INLETS. 8. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY THE LOCATIONS OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. THE CONTRACTOR IS TO VERIFY ALL CONNECTION POINTS WITH THE EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN. IF CONFLICTS WITH EXISTING UTILITIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE.
- 9. ALL STORM DRAIN INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY OR APWA STANDARD PLANS AND SPECIFICATIONS.
- 10. ENSURE MINIMUM COVER OVER ALL STORM DRAIN PIPES PER MANUFACTURER'S RECOMMENDATIONS. NOTIFY ENGINEER IF MINIMUM COVER CANNOT BE ATTAINED.
- 11. ALL FACILITIES WITH DOWNSPOUTS/ROOF DRAINS SHALL BE CONNECTED TO THE STORM DRAIN SYSTEM. SEE PLUMBING PLANS FOR DOWNSPOUT/ROOF DRAIN LOCATIONS AND SIZES. ALL ROOF DRAINS TO HAVE MINIMUM 1% SLOPE.
- 12. THE CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITIES AS NEEDED PER LOCAL GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
- 13. NOTIFY ENGINEER OF ANY DISCREPANCIES IN DESIGN OR STAKING BEFORE PLACING CONCRETE, ASPHALT, OR STORM DRAIN STRUCTURES OR PIPES.
- 14. THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS.

NEW ADDITION FF=5566.38

5566.38

5566.38 TOC TOC -4" CONCRETE REVEAL -INSTALL SDCB #202

2

- MANTI HIGH SCHOOL

NORTH

SCOPE OF WORK:

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

(1) CATCH BASIN PER MANTI STANDARDS AND SPECIFICATIONS.

- (2) GRAVEL SUMP PER MANTI STANDARDS AND SPECIFICATIONS. SEE DETAIL 6/C400
- 3 APPROXIMATE ROOF DRAIN LOCATION. SEE ARCHITECTURAL PLAN

GENERAL NOTES

STORM DRAIN INLETS.

- 1. ALL WORK TO COMPLY WITH THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
- 2. ALL IMPROVEMENTS MUST COMPLY WITH ADA STANDARDS AND RECOMMENDATIONS. 3. ALL WORK SHALL COMPLY WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER POSSIBLY INCLUDING, BUT NOT LIMITED TO, REMOVAL OF UNCONSOLIDATED FILL, ORGANICS, AND DEBRIS, PLACEMENT OF SUBSURFACE DRAIN LINES AND GEOTEXTILE, AND OVEREXCAVATION OF UNSUITABLE BEARING MATERIALS

AND PLACEMENT OF ACCEPTABLE FILL MATERIAL.

- 4. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE EXISTING SOIL CONDITIONS. 5. ELEVATIONS HAVE BEEN TRUNCATED FOR CLARITY. XX.XX REPRESENTS AN ELEVATION OF 48XX.XX ON
- THESE PLANS. 6. LANDSCAPED AREAS REQUIRE SUBGRADE TO BE MAINTAINED AT A SPECIFIC ELEVATION BELOW FINISHED
- ADDITIONAL INFORMATION. 7. SLOPE ALL LANDSCAPED AREAS AWAY FROM BUILDING FOUNDATIONS TOWARD CURB AND GUTTER OR
- 8. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY THE LOCATIONS OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. THE CONTRACTOR IS TO VERIFY ALL CONNECTION POINTS WITH THE EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN. IF CONFLICTS WITH EXISTING UTILITIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE.
- 9. ALL STORM DRAIN INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY OR APWA STANDARD PLANS AND SPECIFICATIONS.
- 10. ENSURE MINIMUM COVER OVER ALL STORM DRAIN PIPES PER MANUFACTURER'S RECOMMENDATIONS. NOTIFY ENGINEER IF MINIMUM COVER CANNOT BE ATTAINED.
- 11. ALL FACILITIES WITH DOWNSPOUTS/ROOF DRAINS SHALL BE CONNECTED TO THE STORM DRAIN SYSTEM. SEE PLUMBING PLANS FOR DOWNSPOUT/ROOF DRAIN LOCATIONS AND SIZES. ALL ROOF DRAINS TO HAVE MINIMUM 1% SLOPE.
- 12. THE CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITIES AS NEEDED PER LOCAL GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
- 13. NOTIFY ENGINEER OF ANY DISCREPANCIES IN DESIGN OR STAKING BEFORE PLACING CONCRETE, ASPHALT, OR STORM DRAIN STRUCTURES OR PIPES.
- 14. THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS.

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GRADE AND REQUIRE SUBGRADE TO BE PROPERLY PREPARED AND SCARIFIED. SEE LANDSCAPE PLANS FOR

GRADING AND DRAINAGE PLAN

DETAILS

THE STANDARD IN ENGINEERING

A 6

3/16" = 1'-0"

3

4

DEMOLITION NOTES: _____

	NOTE:
01	NEW ADDITION FOOTPRINT
02	NEW WALL OPENING, SAWCUT AND REMOVE EXISTING WALL AS REQUIRE
	GRIND, LEVEL AND SEAL TOP OF EXISTING FOUNDATION WALL TO MATCH
	ADJACENT CONCRETE SLABS. REFER TO STRUCTURAL DRAWINGS FOR C
	REQUIREMENTS AND NOTED FLOOR PLAN AND OPENING SCHEDULE FOR
	OPENING SIZE AND LOCATION.
03	REMOVE EXISTING OVERHEAD DOOR - EXISTING OPENING FRAME TO REM
	PATCH AND REPAIR FRAME AS REQUIRED
04	REMOVE EXISTING MAN DOOR & TRANSOM PANEL - EXISTING FRAME TO F
	PATCH AND REPAIR FRAME AS REQUIRED
05	REMOVE EXISTING MAN DOOR, TRANSOM PANEL & DOOR FRAME
06	REMOVE EXISTING WALL SAFETY PADDING AS REQUIRED FOR NEW WALL
	OPENING, MODIFY OR REPLACE PADDING AS NECESSARY FOR CLEAN
	TERMINATION AT OPENING, REFER TO DETAIL 12/A601
07	EXISTING WOOD SHOP EQUIPMENT TO BE RELOCATED, REFER TO SHOP
	EQUIPMENT PLAN SHEET A401
08	EXISTING DUST COLLECTOR FLOOR SWEEP AND DUCT TO BE REMOVED, I
	TO MECHANICAL DRAWINGS
09	EXISTING PLASMA CUTTER TO BE RELOCATED, REFER TO SHOP EQUIPME
	PLAN A401
10	EXISTING INTERIOR MASONRY WALL TO BE REMOVED, PATCH AND REPAIL
	ADJACENT WALLS AND FLOORING AS REQUIRED FROM REMOVAL
11	REMOVE AND RELOCATE EXISTING CASEWORK AND COUNTER SPACE, RE
	SHOP ADDITION FLOOR PLAN A-111
12	REMOVE AND RELOCATE LOCKERS TO METAL SHOP ARE, COORDINATE N
	LOCATION OF LOCKERS WITH OWNER
13	EXISTING SUSPENDED CEILING IN CLASSROOM ENTRANCE AREA TO BE
	REMOVED, REFER TO REFLECTED CEILING PLAN SHEET A131
14	REMOVE EXISTING CEILING & FLOORING IN DEMOLISHED CLOSET AREA
15	REMOVE EXISTING CASEWORK / SHELVING
16	EXISTING RACK / ELECTRONIC EQUIPMENT , REFER TO ELECTRICAL DRAV
17	REMOVE ALL EXISTING VCT FLOORING
18	EXISTING SUSPENDED CEILING IN CLASSROOM AREA TO REMAIN AND BE
	ADJUSTED AS NECESSARY FOR GRID EXTENSION INTO NEW CLASSROOM
	REFER TO REFLECTED CEILING PLAN SHEET A131
19	REMOVE EXISTING BASE CABINET AND SINKS. SAWCUT AND REMOVE EXIS
	SLAB AS REQUIRED TO TIE NEW SHOP SINK AND EYE WASH DRAINS TO EX
	FLOOR DRAIN, REFER TO PLUMBING DRAWINGS. REPLACE CONCRETE SL
	REQUIRED.

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2

ALL AS REQUIRED. WALL TO MATCH TOP OF RAWINGS FOR OPENING SCHEDULE FOR

G FRAME TO REMAIN,

ING FRAME TO REMAIN, FRAME

FOR NEW WALL Y FOR CLEAN

REFER TO SHOP) BE REMOVED, REFER

SHOP EQUIPMENT

ATCH AND REPAIR MOVAL

NTER SPACE, REFER TO

COORDINATE NEW

CLOSET AREA _ECTRICAL DRAWINGS

REMAIN AND BE

EW CLASSROOM AREA,

ND REMOVE EXISTING SH DRAINS TO EXISTING E CONCRETE SLAB AS

3/16" = 1'-0"

(1)

WRESTLING ADDITION DEMOLITION PLAN

BID ALTERNATE #1

DEMOLITION NOTES:

	NOTE:
01	NEW ADDITION FOOTPRINT
02	NEW WALL OPENING, SAWCUT AND REMOVE EXISTING WALL AS REQ
	GRIND, LEVEL AND SEAL TOP OF EXISTING FOUNDATION WALL TO MA
	ADJACENT CONCRETE SLABS. REFER TO STRUCTURAL DRAWINGS F
	REQUIREMENTS AND NOTED FLOOR PLAN AND OPENING SCHEDULE
	OPENING SIZE AND LOCATION.
03	REMOVE EXISTING OVERHEAD DOOR - EXISTING OPENING FRAME TO
	PATCH AND REPAIR FRAME AS REQUIRED
04	REMOVE EXISTING MAN DOOR & TRANSOM PANEL - EXISTING FRAME
	PATCH AND REPAIR FRAME AS REQUIRED
05	REMOVE EXISTING MAN DOOR, TRANSOM PANEL & DOOR FRAME
06	REMOVE EXISTING WALL SAFETY PADDING AS REQUIRED FOR NEW V
	OPENING, MODIFY OR REPLACE PADDING AS NECESSARY FOR CLEA
	TERMINATION AT OPENING, REFER TO DETAIL 12/A601
07	EXISTING WOOD SHOP EQUIPMENT TO BE RELOCATED, REFER TO SH
	EQUIPMENT PLAN SHEET A401
08	EXISTING DUST COLLECTOR FLOOR SWEEP AND DUCT TO BE REMOV
	TO MECHANICAL DRAWINGS
09	EXISTING PLASMA CUTTER TO BE RELOCATED, REFER TO SHOP EQU
	PLAN A401
10	EXISTING INTERIOR MASONRY WALL TO BE REMOVED, PATCH AND R
	ADJACENT WALLS AND FLOORING AS REQUIRED FROM REMOVAL
11	REMOVE AND RELOCATE EXISTING CASEWORK AND COUNTER SPAC
	SHOP ADDITION FLOOR PLAN A-111
12	REMOVE AND RELOCATE LOCKERS TO METAL SHOP ARE, COORDINA
	LOCATION OF LOCKERS WITH OWNER
13	EXISTING SUSPENDED CEILING IN CLASSROOM ENTRANCE AREA TO
	REMOVED, REFER TO REFLECTED CEILING PLAN SHEET A131
14	REMOVE EXISTING CEILING & FLOORING IN DEMOLISHED CLOSET AR
15	REMOVE EXISTING CASEWORK / SHELVING
16	EXISTING RACK / ELECTRONIC EQUIPMENT , REFER TO ELECTRICAL I
17	REMOVE ALL EXISTING VCT FLOORING
18	EXISTING SUSPENDED CEILING IN CLASSROOM AREA TO REMAIN ANI
	ADJUSTED AS NECESSARY FOR GRID EXTENSION INTO NEW CLASSR
	REFER TO REFLECTED CEILING PLAN SHEET A131
19	REMOVE EXISTING BASE CABINET AND SINKS. SAWCUT AND REMOVE
	SLAB AS REQUIRED TO TIE NEW SHOP SINK AND EYE WASH DRAINS
	FLOOR DRAIN, REFER TO PLUMBING DRAWINGS. REPLACE CONCRET
	REQUIRED.
	· · · · · · · · · · · · · · · · · · ·

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WALL AS REQUIRED. N WALL TO MATCH TOP OF DRAWINGS FOR OPENING G SCHEDULE FOR

NG FRAME TO REMAIN,

STING FRAME TO REMAIN, R FRAME

D FOR NEW WALL RY FOR CLEAN

REFER TO SHOP TO BE REMOVED, REFER

TO SHOP EQUIPMENT

ATCH AND REPAIR REMOVAL

OUNTER SPACE, REFER TO E, COORDINATE NEW

ICE AREA TO BE A131

D CLOSET AREA

ELECTRICAL DRAWINGS

O REMAIN AND BE

NEW CLASSROOM AREA, AND REMOVE EXISTING

ASH DRAINS TO EXISTING CE CONCRETE SLAB AS

DDITION	ELEVAT	IONS

naylor wentworth lund

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12-09-2024

PROJE THE DIST 39 SOU

SHOP

ADDITION

FLOOR PLAN

A111

A 6

WRESTLING ADDITION FLOOR PLAN

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GENERAL NOTES - FLOOR PLANS:

- 1. EXISTING SCHOOL TOP OF FINISH SLAB ELEVATION = 100'-0" AD RELATIVE TO THIS.
- 2. PROVIDE BLOCKING AT ALL STUD WALL ACCESSORY MOUNTING LOCATIONS.
- 3. REFER TO INTERIOR DETAILS A/501 FOR UN-REFERENCED MISCELLANEOUS DETAILS.
- 4. UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO FACE OF CONCRETE MASONRY UNITS, FACE OF METAL STUDS AND CENTER OF COLUMNS
- 5. EXISTING BUILDING DIMENSIONS TO BE FIELD VERIFIED.

FLOOR PLAN SYMBOLS LEGEND:

$\langle \langle$	WALL TYPE TAG - REFER TO WALL TYPES, SHEET G201
\square	DOOR TAG - REFER TO DOOR SCHEDULE SHEET A601
WINDOW TAG - REFER TO FRAME ELEVATIONS SHEETS A601	
(1 — KEYED NOTE TAG
F, W	/, B, C ROOM FINISHES, REFER TO FINISH SCHEDULE THIS SHEET
KEY	ED NOTES - FLOOR PLANS:
	NOTE:
01	07 1900 - EXISTING MASONRY WALL, POWER WASHED & SEALED
02	09 9123 - INTERIOR WALL / EXPOSED STEEL FRAMING TO BE PAINTED
03	11 6622 WALL BADDING REEED TO INTEDIOD ELEVATIONS
04	ELOOP WRESTLING MATS PROVIDED BY OWNER
00	
07	06 1000 - GALVANIZED SHEET METAL PROTECTIVE WALL PANEL FROM ELOOR
07	LIP TO 8'-0" AFE (@ METAL SHOP SIDE ONLY OF NEW FIRE RISER ROOM WALLS)
08	05 1200 - STEEL COLUMN REFER TO STRUCTURAL DRAWINGS
09	05 1200 - STRUCTURAL FRAMING FOR NEW OPENING REFER TO STRUCTURAL
	DRAWINGS
10	11 6623 - COLUMN WRAPPED SAFETY PAD REFER TO INTERIOR ELEVATIONS
11	07 4100 & 05 5000 - TANK STORAGE AREA CANOPY ROOF ABOVE
12	07 6200 - CANOPY ROOF DOWNSPOUT
13	32 3113 - TANK STORAGE AREA CHAIN LINK ENCLOSURE WITH GATE
14	RELOCATED EXISTING CASEWORK (COORDINATE UPPER WALL CABINET
	RE-INSTALLATION WITH DATA RACK, REFER TO ELECTRICAL DRAWINGS)
15	EXISTING HOLLOW METAL DOOR AND FRAME TO BE PAINTED
16	EXISTING GYP. BOARD CEILING TO BE PAINTED
17	09 6500 - NEW VCT CLASSROOM FLOORING
18	09 9510 - NEW SUSPENDED CLASSROOM CEILING, REFER TO REFLECTED
	CEILING PLAN
19	09 6500 - NEW 4" RUBBER BASE IN CLASSROOM AREA
20	EXISTING RACKS / BOOTHS / CASEWORK TO REMAIN
21	EXISTING SPACE TO REMAIN UNDISTURBED, N.I.C.
22	12 2413 - MOTORIZED WINDOW SHADE IN HEAD BOX TO COVER FULL WIDTH AND
	HEIGHT OF WINDOW
23	NEW SHOP SINK, REFER TO PLUMBING DRAWINGS
24	NEW EYE WASH STATION MOUNTED ON NEW FURRED WALL, REFER TO
	PLUMBING DRAWINGS
25	EXISTING SEMI-RECESSED FIRE EXTINGUISHER CABINET TO REMAIN
26	ROOF DRAIN LINE, REFER TO PLUMBING DRAWINGS
27	DATA RACK / CABINET, REFER TO ELECTRICAL DRAWINGS
28	06 2000 - ±13'-0" x 1'-11 3/8" x WRESTLING MATT HEIGHT (VERIFY) FINISHED
	HARDWOOD THRESHOLD WITH ABRASIVE FINISH STRIP @ TOP FACE AT NEW
	OPENING, COORDINATE WITH OWNER.
FINI:	

гімоп	SCHEDULE
FLOOR	

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120011	
F0	EXISTNG CONCRETE, NO NEW FINISH
F1	03 3511 - SEALED CONCRETE
F2	09 6500 - VINYL COMPOSITION TILE, REFER TO KEYNOTE #17 THIS SH
WALL	
W0	EXISTNG WALL, NO NEW FINISH
W1	09 9123 - PAINTED WALL, COLOR AS SELECTED BY ARCHITECT, REFE
	KEYNOTES #2 THIS SHEET
W2	07 1900 - SEALED WALL, REFER TO KEYNOTES #1 & 3 THIS SHEET
W3	05 5000 - PROTECTIVE WALL PANEL, REFER TO KEYNOTE #7 THIS SH
EQ1	11 6623 - WALL MOUNTED SAFETY PADS, REFER KEYNOTE #4 THIS S
BASE	
B0	NO BASE
B1	09 6519 - 4" RUBBER BASE (@ NEW GYP. BOARD WALL, FIRE RISER S
B2	09 6519 - 4" RUBBER BASE, REFER TO KEYNOTE #19 THIS SHEET
CEILING	
C0	NO NEW CEILING OR CEILING FINISH
C1	09 9123 - EXPOSED STRUCTURE, PAINTED
C2	09 5100 - SUSPENDED ACOUSTICAL CEILING, REFER TO KEYNOTE #1

DDITION	ELEVATIO	NS

G201 4601

PANEL FROM FLOOR RISER ROOM WALLS) /INGS FER TO STRUCTURAL ERIOR ELEVATIONS

OVER FULL WIDTH AND

#17 THIS SHEET

ITECT, REFER TO

S SHEET #7 THIS SHEET E #4 THIS SHEET

IRE RISER SIDE ONLY) SHEET

EYNOTE #18 THIS SHEET

12-09-2024

PROJECT FOR THE SOUTH SANPETE SCHOOL DISTRICT BOARD OF EDUCATION	39 SOUTH MAIN MANTI, UTAH 84642
WRES	TLING
ADDI	TION
FLOOF	R PLAN

A112

3/16" = 1'-0"

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SLAB EDGE PLAN LEGEND:

TOP OF SLAB

TOP OF WALL

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тоw	

CONCRETE FOUNDATION WALL, REFER TO STRUCTURAL DRAWINGS

CONCRETE SLAB ON GRADE, REFER TO STRUCTURAL DRAWINGS. CONTRACTOR SHALL PROVIDE CONTROL JOINT LAYOUT PLAN PER REQUIREMENTS OF STRUCTURAL GENERAL NOTES

SLAB EDGE PLANS
A121

PROJECT FOR THE SOUTH SANPETE DISTRICT BOARD OF 39 SOUTH MAIN MANTI, UTAH 84		I HE SOUTH SANFETE SCHOOL DISTRICT BOARD OF EDUCATION	39 SOUTH MAIN MANTI, UTAH 84642
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naylor wentworth lund architects

WRESTLING ADDITION REFLECTED CEILING PLAN 3/16" = 1'-0"

GENERAL NOTES - REFLECTED CEILING PLANS:

- 1. PROVIDE SEISMIC BRACING AT ALL NEW / MODIFIED SUSPENDED CEILING SYSTEMS, REFER TO SPECIFICATIONS 09 5100
- 2. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING AND DIFFUSER INFORMATION.
- 3. FOR PAINTED EXPOSED STRUCTURE, REFER TO SPECIFICATIONS 09 9123 FOR REQUIREMENTS OF EXPOSED ELEMENTS TO BE PAINTED.
- 4. CONTRACTOR SHALL COORDINATE ALL TRADES, NOTIFY ARCHITECT IF LOCATION CONFLICTS OF EQUIPMENT, FIXTURES ETC. ARISE.

REFLECTED CEILING PLAN SYMBOLS LEGEND:

01	EXISTING SUSPENDED CEILING GRID
02	NEW SUSPENDED CEILING GRID TO MATCH AND TIE INTO E
	PROVIDE A CONTINUOUS 2x4 GRID SYSTEM. REPLACE ANY
	CEILING TILES THROUGHOUT ENTIRE CLASSROOM. MODIF
	REPLACE CEILING COMPONENTS AS NECESSARY TO ALIGI
	SPACING, REFER TO MECHANICAL, ELECTRICAL AND FIRE
	DRAWINGS.
03	EXISTING MECHANICAL COMPONENT, REFER TO MECHANI
04	EXISTING MECHANICAL COMPONENT RELOCATED AS NECI
	WITHIN NEW CEILING GRID AREA, REFER TO MECHANICAL
05	EXISTING LIGHT FIXTURE, REFER TO ELECTRICAL DRAWIN
06	EXISTING LIGHT FIXTURE RELOCATED AS NECESSARY TO
	CEILING GRID AREA , REFER TO ELECTRICAL DRAWINGS
07	LIGHTING FIXTURE LAYOUT IN THIS ROOM / AREA REFLECT
	REPLACEMENT FIXTURE BID ALTERNATE, EXISTING TO REI
	NOT SHOWN, REFER TO ELECTRICAL DRAWINGS.
08	EXISTING CEILING SPACE TO REMAIN UNDISTURBED, N.I.C.
09	NEW MECHANICAL COMPONENT, REFER TO MECHANICAL I
10	EXISTING GYP. BOARD CEILING - CLEAN, PRIME, PATCH AN
	REQUIRED FOR NEW CEILING PAINT.

CEILING TYPES LEGEND

CEILING	
C0	NO NEW CEILING OR CEILING FINISH
C1	09 9123 - EXPOSED STRUCTURE, PAINTED
C2	09 5100 - SUSPENDED ACOUSTICAL CEILING. REFER TO KE
C3	09 9123 - EXISTNG GYP. BOARD CEILING, PAINTED. REFER
	THIS SHEET

BID ALTERNATE #1

2

IG PLANS	•
	1

EXISTING AND / DAMAGED OR MISFIT FY, RELOCATE OR N WITHIN GRID SPRINKLER

ICAL DRAWING ESSARY TO FIT DRAWINGS GS

OFIT WITHIN NEW TS NEW EMAIN LAYOUT OPTION

DRAWINGS ID REPAIR AS

KEYNOTE #2 THIS SHEET R TO KEYNOTE #10

SHOP ADDITION ROOF PLAN 3/16" = 1'-0"

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GENERAL NOTES - ROOF PLAN:

- 1. ALL ROOF SLOPES ARE 1/4" PER 12" MIN. UNLESS NOTED OTHERWISE.
- 2. PROVIDE CRICKETING AROUND ROOF HATCHES & MECHANICAL EQUIPMENT, TYP.
- 3. COORDINATE ROOF PENETRATIONS WITH MECHANICAL, PLUMBING, ELECTRICAL AND STRUCTURAL DRAWINGS.

KEYED NOTES - ROOF PLAN:

	NOTE:
01	EXISTING ROOFING
02	EXISTING TOP OF WALL COPING
03	07 5400 - SINGLE PLY MEMBRANE ROOFING OVER INSULAT
04	07 5323 - TAPERED CRICKETING ROOF INSULATION
05	07 6200 - PRE-FINISHED METAL COPING
06	07 9513 - TYPE A - EXPANSION JOINT COVER, REFER TO DI
07	22 0000 - PRIMARY AND SECONDARY ROOF DRAINS, REFE
	DRAWINGS & DETAILS 3 & 4/A501
08	23 0000 - MECHANICAL EQUIPMENT ON ROOF TOP CURBIN
	MECHANICAL DRAWINGS
09	07 74100 - TANK STORAGE AREA CANOPY STANDING SEAN
	SNOW GUARD
10	07 6200 - GUTTER AND DOWNSPOUT

1

2

ETAIL 2/A501 ER TO PLUMBING

NG, REFER TO

AM METAL ROOF WITH

TO MASONRY EL = 115-8"

FINISH FLOOR EL. = 100'-0"

10 5

4

_ __ __

10

TO MASONRY EL = 115'-8"

FINISH FLOOR EL. = 100'-0"

2

A201 3/16" = 1'-0"

WRESTLING ADDITION EAST ELEVATION 5 A201 3/16" = 1'-0" BID ALTERNATE #1

KEYED NOTES - EXTERIOR ELEVATIONS:

	NOTE:
	UT 9513 - TYPE B EXPANSION JUINT COVER (WALL TO WALL)
02	07 6200 - PRE-FINISHED METAL WALL COPING
03	08 4313 - ALUMINUM FRAMED STOREFRONT WINDOW
04	04 2113 - MASONRY VENEER WITH MATTE FINISH
05	04 2113 - MASONRY VENEER WITH RUFF FACE FINISH
06	04 2113 - MASONRY CONTROL JOINT, REFER TO STRUCTURA
07	08 1113 & 09 9113 - PAINTED HOLLOW METAL DOOR & FRAME
80	08 3323, 05 5000 & 09 9113 - PRE-FINISHED OVERHEAD DOOR
	METAL FRAME
09	GALVANIZED STEEL BOLLARD, REFER TO CIVIL DRAWING
10	32 3113 - TANK STORAGE AREA CANOPY AND ENCLOSURE G/
11	08 1113 & 09 9113 - NEW FIRE RATED PAINTED HOLLOW META
	PANEL IN EXISTING FRAME
12	07 6200 - PRE-FINISHED METAL GUTTER & DOWNSPOUT
13	07 4100 - STANDING SEAM METAL ROOF WITH SNOW GUARD

SHOP ADDITION SOUTH ELEVATION

WRESTLING ADDITION NORTH ELEVATION 6 A201 3/16" = 1'-0" BID ALTERNATE #1

|1

URAL DRAWINGS OOR WITH PAINTED

E GATE METAL DOOR & TRANSOM

12-09-2024

EXTERIOR

2 WOOD SHOP ADDITION SECTION A301 1/2" = 1'-0"

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NOTE:

	T.O. MASONRY EL. 115'-8" DECK BEARING EL. ±113'-10"
	10 T.O. BEAM EL. 111'-10" 6 A501
TANK STORAGE AREA	
	EL. 100'-0"

01	07 5400 - SINGLE-PLY ROOFING MEMBRANE OVER INSULATIO
02	05 3100 - METAL ROOF DECKING, REFER TO STRUCTURAL D
03	05 1200 - STEEL FRAMING & ROOF JOISTS, REFER TO STRUC
04	03 3000 - CONCRETE FOUNDATION WALL & FOOTING, REFER
	DRAWINGS
05	03 3000 - CONCRETE SLAB ON GRADE, REFER TO STRUCTU
06	08 4313 - ALUMINUM STOREFRONT WINDOW, REFER TO REF
	PLANS
07	WALL ASSEMBLY, REFER TO REFERENCE FLOOR PLANS & V
	G201
08	07 9513 - TYPE 'A' EXPANSION JOINT COVER
09	05 1200 - STRUCTURAL FRAMING FOR NEW WALL OPENING,
	STRUCTURAL DRAWINGS
10	TANK STORAGE AREA CANOPY
11	TANK STORAGE AREA FENCE ENCLOSURE WITH GATE

ON DRAWINGS

ER TO STRUCTURAL

URAL DRAWINGS

& WALL TYPES SHEET

G, REFER TO

BUILDING SECTIONS

DECK BEARING EL. 114'-6"

EXISTING GYM E04

3 WRESTLING ADDITION SECTION A302 1/2" = 1'-0" RII

KEYED NOTES - BUILDING SECTIONS:

	NOTE:
01	
	07 5400 - SINGLE-PLY ROOFING MEMORANE OVER INSULATION
02	05 3100 - METAL ROOF DECKING, REFER TO STRUCTURAL DRAWINGS
03	05 1200 - STEEL FRAMING & ROOF JOISTS, REFER TO STRUCTURAL DRAWINGS
04	03 3000 - CONCRETE FOUNDATION WALL & FOOTING, REFER TO STRUCTURAL
	DRAWINGS
05	03 3000 - CONCRETE SLAB ON GRADE, REFER TO STRUCTURAL DRAWINGS
06	08 4313 - ALUMINUM STOREFRONT WINDOW, REFER TO REFERENCE FLOOR
	PLANS
07	WALL ASSEMBLY, REFER TO REFERENCE FLOOR PLANS & WALL TYPES SHEET
	G201
08	07 9513 - TYPE 'A' EXPANSION JOINT COVER
09	05 1200 - STRUCTURAL FRAMING FOR NEW WALL OPENING, REFER TO
	STRUCTURAL DRAWINGS
10	TANK STORAGE AREA CANOPY
11	TANK STORAGE AREA FENCE ENCLOSURE WITH GATE

BID ALTERNATE #1

|1

& WALL TYPES SHEET

G, REFER TO

BUILDING SECTIONS A302

С

A 6

GENERAL NOTES - EQUIPMENT PLANS:

- 1. ALL SHOP EQUIPMENT, TOOLS, SHELVING, STORAGE, WORK BENCHES ETC. ARE EXISTING OR NEW BY OWNER.
- 2. REFER TO MECHANICAL PLANS FOR NEW COMPRESSED AIR DROPS AND FITTINGS. NEW AIR HOSES AND HOSE REELS BY OWNER.
- 3. REFER TO MECHANICAL PLANS FOR NEW SAW-DUST COLLECTOR DUCTWORK AND FITTINGS.
- 4. REFER TO ELECTRICAL PLANS FOR NEW REQUIRED POWER OUTLET LOCATIONS AND SIZES.

SHOP EQUIPMENT NOTES:

	NOTE
01	EXISTING SHOP EQUIPMENT TO REMAIN
02	RELOCATED SHOP EQUIPMENT, REFER TO DEMOLITION PL
03	NEW SHOP EQUIPMENT, PROVIDED BY OWNER
04	NEW DUST COLLECTOR FLOOR SWEEP, REFER TO MECHAI
05	NEW DUST COLLECTOR DUCT DROP, REFER TO MECHANIC

1

2

naylor wentworth lund architects

NICAL DRAWINGS CAL DRAWINGS

E

D

(CVI)-

to to

A 6

KEYED NOTES - INTERIOR ELEVATIONS:

	NOTE:
01	08 4313 - ALUMINUM FRAMED STOREFRONT WINDOW
02	04 2113 - MASONRY CONTROL JOINT, REFER TO STRUCTUR

FINISH LEGEND - INTERIOR ELEVATIONS: _____

	P1-F	09 9213 - PRIMARY PAINT COLOR, FRAMED WALL
	P1-M	09 9213 - PRIMARY PAINT COLOR, MASONRY WALL
	P1-S	09 9213 - PRIMARY PAINT COLOR, EXPOSED STRUCTUR
	P2-D	09 9213 - DOOR & FRAME PAINT COLOR
	EQ1	11 6623 - WALL MOUNTED SAFETY PADS
	EQ2	11 6623 - COLUMN WRAPPED SAFETY PAD
	CV1	07 9513 - TYPE 'C' EXPANSION JOINT COVER (INTERIOR
1		

RAL DRAWINGS

R WALL TO WALL)

INTERIOR ELEVATIONS

A410

2

BUILDING DETAILS

A501

AS SCHEDULED

PRE-FINISHED OVERHEAD COILING DOOR, FIRE RATED

OH2

SECTION 08 3323

AS SCHEDULED

MOTORIZED, PRE-FINISHED INSULATED OVERHEAD COILING DOOR SECTION 08 3323

OH1

AS

SCHEDULED

PAINTED HOLLOW

METAL **SECTION 08 1113**

M1

1/4" = 1'-0"

DOOR TYPES

5

4

— 11 6623 - WALL MOUNTED

SAFETY PAD

EXISTING WALL ASSEMBLY AS -----

Negativa (La Colonda da Care

OCCURS

/---- 08 4313 - ALUMINUM STOREFRONT

WINDOW

WALL ASSEMBLY, REFER TO FLOOR

PLAN & WALL TYPES SHEET G201

OPENING SCHEDULE

			г	DOOR	FR		DETAILS				
NO.	ROOM	/ PAIR	TYPE	WIDTH X HEIGHT	TYPE	PROFILE	HEAD	JAMB	SET	NOTES	NO.
101A	FIRE RISER ROOM	S	M1	3'-0" X 7'-0"	F1	SEE DETAILS	8/A601	9/A601	04		101A
102A	METAL SHOP ADDITION	S	M1	3'-0" X 7'-0"	F1	SEE DETAILS	4/A601	5/A601	03		102A
				1//-0" X 10'-0"							
102B	METAL SHOP ADDITION	s	OH1	(OPENING SIZE)	F4	SEE DETAILS	6/A601	7/A601	01		102B
103A	WOOD SHOP ADDITION	S	M1	4'-0" X 7'-0"	F1	SEE DETAILS	4/A601	5/A601	02		103A
103B	WOOD SHOP ADDITION	S	M1	3'-0" X 7'-0"	F1	SEE DETAILS	4/A601	5/A601	03		103B
				12'-0" X 10'-0"							
103C	WOOD SHOP ADDITION	S	OH1	(OPENING SIZE)	F4	SEE DETAILS	6/A601	7/A601	01		103C
104A	DRYING ROOM	Р	M1	3'-0" X 7'-0"	F1	SEE DETAILS	10/A601	11/A601	06	45 MINUTE FIRE RATED	104A
				10'-0" X 10'-0"	·	SEE	S	FE			
E001A	EXISTING METAL SHOP	s	OH2	(OPENING SIZE)	STR	RUCTURAL	STRUC	STRUCTURAL		2 HOUR FIRE RATED	E001A
				10'-0" X 10'-0"							
E001B	EXISTING METAL SHOP	S	OH2	(OPENING SIZE)	E	XISTING ¹		-	01	VERIFY SIZE, 2 HOUR FIRE RATED	E001B
E001C	EXISTING METAL SHOP	S	M1	3'-0" X 7'-0"	F2 ^{1,2}	EXISTING		-	05	VERIFY SIZE, 90 MINUTE FIRE RATED	E001C
				4'-4" X 10'-0"							
E001D	EXISTING METAL SHOP	S	OH2	(OPENING SIZE)	F4	SEE DETAILS	14/A601	14/A601	01	VERIFY SIZE, 2 HOUR FIRE RATED	E001D
				4'-4" X 10'-0"							
E002A	EXISTING WOOD SHOP	S	OH2	(OPENING SIZE)	F4	SEE DETAILS	14/A601	14/A601	01	VERIFY SIZE, 2 HOUR FIRE RATED	E002A
E002B	EXISTING WOOD SHOP	S	M1	3'-0" X 7'-0"	F2 ^{1,2}	EXISTING		-	05	VERIFY SIZE, 90 MINUTE FIRE RATED	E002B
				10'-0" X 10'-0"							
E002C	EXISTING WOOD SHOP	S	OH2	(OPENING SIZE)	E	XISTING ¹		-	01	VERIFY SIZE, 2 HOUR FIRE RATED	E002C
				12'-0" X 10'-0"		SEE	SI	EE			
E002D	EXISTING WOOD SHOP	S	OH2	(OPENING SIZE)	STR	RUCTURAL	STRUC	TURAL	01	2 HOUR FIRE RATED	E002D
E003A	EXISTING HALL	Р	M1	3'-0" X 7'-0"	F3 ^{1,2}	EXISTING	EXISTING	EXISTING	07	VERIFY SIZE, 90 MINUTE FIRE RATED	E003A
E011A	EXISTING GYM	Р	M1	3'-0" X 7'-0"	F3 ²	SEE DETAILS	13/A601	13/A601	08	VERIFY SIZE, 90 MINUTE FIRE RATED	E011A
E011B	EXISTING GYM	Р	M1	3'-0" X 7'-0"	F3 ^{1,2}	EXISTING		-	07	VERIFY SIZE, 90 MINUTE FIRE RATED	E011B
				13'-6" X 10'-0"		SEE					
E012A	EXISTING WRESTLING	NONE	NONE	(OPENING SIZE)	STR	RUCTURAL	-	12/A601	NONE	WALL OPENING ONLY	E012A

4

9

A601 1 1/2" = 1'-0"

A601 1 1/2" = 1'-0"

¹ EXISTING FRAME TO BE RESTORED AND PAINTED BY 09 9113 / 09 9213 ² PROVIDE A 90 MIN. RATED TRANSOM H.M. PANEL REPLACEMENT PAINTED BY 09 9113 / 09 9213

WINDOW SILL DETAIL

3

A601

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

9"

2

DOOR JAMB DETAIL

- WALL ASSEMBLY, REFER TO FLOOR - REFER TO STRUCTURAL DRAWINGS

- 05 1200 - GALVANIZED STEEL LINTEL,

ROJECT FOR	THE SOUTH SANPETE SCHOOL	9 SOUTH MAIN MANTI, UTAH 84642
PRO	TH	39 S

OPENING SCHEDULE & DETAILS

A601

ΕN	ERAL		EXISTING COND
1.	The structural notes are intended to comple drawings shall govern over the structural no	ment the project specifications. Specific notes and details in the otes and typical details.	1. Structural conne review of existing systems, connect
2.	Typical details and sections shall apply whe	ere specific details are not shown.	from the informa
3.	The structural drawings are not all-inclusive mechanical shafts, and penetrations needed items with the Architectural, Mechanical and	and do not contain all dimensions, elevations, openings, d to build the structure. The contractor shall coordinate these d Electrical drawings.	2. Existing framing noted otherwise any deficiencies
4.	Omissions or conflicts between the contract of the architect/engineer before proceeding stringent requirement as directed by the arc	drawings and/or specifications shall be brought to the attention with any work involved. In case of conflict, follow the most hitect/engineer at no additional cost to the owner.	steel members, proceeding with
5.	The contractor shall submit a written request substitutions, or modifications. Any work do the contractor's risk.	3. The contractor's verify foundation architect/engined proceeding with	
6.	The contractor shall coordinate with all trade such as openings, penetrations, mechanica mechanical and other equipment that differs the architect/engineer.	es any items that are to be integrated into the structural system I and electrical equipment, etc. Sizes and locations of s from those shown on the contract drawings shall be reported to	4. While performing shoring and prot the contract doc
7.	The contractor shall provide adequate shori Shoring and bracing shall remain in place u The building shall not be considered stable	ng and bracing as required for the chosen method of erection. ntil final connections for the permanent members are completed. until all connections are completed. Walls shall not be	FOUNDATION
8.	considered self-supporting and shall be bracher The contractor shall not cut or core any hole architect/engineer.	ced until the roof system is completed. es in masonry or concrete walls without prior review by the	 Soils Report Author: Dated: Project No:
9.	Site observations by BHB Consulting Engin construction procedures nor special inspect	eers' field representative shall not be construed as approval of ion.	2. Soil Bearing Pre
10.	Detailing and shop drawing production for s contained in the architectural, structural and used in conjunction with the architectural ar such as elevations, depressions, slopes, me structural drawings. All dimensions shown	tructural elements will require information (including dimensions) I/or other consultants' drawings. The structural drawings shall be ad other consultant's drawings. Some dimensions and elements echanical housekeeping pads, etc. are not shown in the on structural drawings shall be verified by contractor with	3. Frost Protection
11.	Contractor shall review shop drawings for co with review stamp prior to submission to arc Engineers is for general compliance only ar not relieve the contractor from the responsit documents. Fabrication shall not begin until	 Lateral Soil Pres a. Active b. At Rest c. Passive Coefficient of Fri 	
	agreement prior to the shop drawings being	reviewed.	FARTHWORK
12.	Only an authorized representative of BHB C drawings. BHB Consulting Engineers shall indirectly from changes made without writte	Consulting Engineers may make changes to these contract not be held responsible or liable for any claims arising directly or n authorization by an authorized representative of BHB	1. All footings shall natural material.
	Consulting Engineers.		2. Consult the proje
AS	IS OF DESIGN		
1.	Governing Code a. Risk Category	International Building Code 2021 III	
2.	 Snow Loads a. Ground Snow Load b. Snow Importance Factor c. Snow Exposure Coefficient d. Thermal Exposure Coefficient e. Roof Snow Load 	P _g = 36 psf I _s = 1.1 C _e = 1.0 C _t = 1.0 P _f = 0.7*C _e *C _t * I _s * P _g = 28 psf plus Snow Drift	
3.	Rain Loads a. Rain Intensity	i = 1.5 in/hr	
4.	 Seismic Loads a. Seismic Importance Factor, I_e b. Seismic Design Category c. Site Specific Ground Motion Hazard Analysis 	1.25 D Not Required per section 11.4.8 of ASCE 7	
	d. Mapped Spectral Acceleratione. Soil Site Class	S _s = 0.635g S ₁ = 0.199g D	
	f. Soil Site Coefficientsg. 5% Damped Design Spectral Response	$F_a = 1.29$ $F_v = 2.20$ Acceleration	
	 h. Seismic-Force-Resisting System i. Response Modification Coefficient j. System Over-strength Factor 	$S_{DS} = 2/3 * F_a * S_S = 0.547g$ $S_{D1} = 2/3 * F_v * S_1 = 0.292g$ Special Masonry Shear Walls R = 5.0 $\Omega_0 = 2.5$	
	 k. Deflection Amplification Factor l. Redundancy Factors m. Fundamental Building Period n. Seismic Response Coefficient b. W. 	$C_d = 3.5$ $\rho_x = 1.3$; $\rho_y = 1.3$ T = 0.160 seconds $C_s = S_{D_s} * I_e / R$ Dead Loads of Structure	
	 vv p. Base Shear a. Applyzin Brogoduro 	Dead Loads of Structure $Vx = C_S * W = 0.137 * W$ $Vy = C_S * W = 0.137 * W$ Equivalent Lateral Force (Static)	

5. Wind Loads a. Basic Wind Velocity (3 Second Gust)

b. Exposure Type

c. Internal Pressure Coefficient, GCpi

d. Topographic Factor, Kzt

e. Ground Elevation Factor, Ke f. Components and Cladding Wind Force Table (psf, Strength Design)

100110110		, poi, ouo	-gai bee	·		
			Tributary	/ Area (squ	are feet)	
	Location	10	20	50	100	500
\//alle	Zone 5: Within 4.5 feet of building corners	25.4	23.7	21.5	19.8	15.9
vvalis	Zone 4: All other areas	20.6	19.8	18.7	17.8	15.9
	Zone 2: Within 4.5 feet of building edges	31.4	30.8	30.1	29.6	29.6
Roof	Zone 3: Within 4.5 feet of building corners	49.0	43.7	36.7	31.4	31.4
	Zone 1: All other areas	22.5	22.5	22.5	22.5	22.5

108 mph

+/-0.18

1.0

0.82

STING CONDITIONS

Structural connections and the framing systems shown in the structural drawings are based on a limited review of existing structural drawings. The contractor shall verify the existing conditions of exposed framing systems, connections, walls, and other structural elements within the project area. If existing conditions vary from the information in the contract documents, the contractor shall notify the architect/engineer prior to proceeding with the fabrication or construction of any affected elements.

Existing framing systems and foundations taking new loads are assumed to be in good condition, unless noted otherwise in the contract documents. The contractor shall immediately notify the architect/engineer of any deficiencies in the existing structure that are observed or revealed during construction (e.g. corrosion of steel members, cracking or crumbling of concrete, checking or splitting of wood members) prior to proceeding with the fabrication or construction of any affected elements.

The contractor shall use the foundation systems indicated on the plans for reference only, and shall field verify foundation sizes, locations, and thicknesses during construction. The contractor shall notify the architect/engineer if existing foundations vary from the information in the contract documents prior to proceeding with the fabrication or construction of any affected elements.

While performing work adjacent to existing structures, the contractor shall be responsible for adequate shoring and protection of all existing structures, utilities, and services which will be affected by the work in the contract documents.

NDATION

So	ils Report	
a.	Author:	
b.	Dated:	
C.	Project No:	

AGEC Applied GeoTech September 17, 2024 1240698

3,500 psf, see Earthwork Section.

30" minimum to bottom of footing. Contractor shall field verify that the footing elevations and final grades indicated on the plans will provide the minimum frost protection. The contractor shall notify the architect/engineer if there are any locations where the minimum frost protection might not be achieved prior to placing concrete.

ate	ral Soil Pressure Fluid Equivalent Dens	it
. 1	Active	
. 1	At Rest	
	Passive	

50 pcf (retaining walls) 65 pcf (rigid foundation walls) 250 pcf 0.45

THWORK

All footings shall bear on suitable natural material or compacted structural fill extending down to suitable natural material.

Consult the project specifications and soils report for further earthwork requirements.

CONCRETE

- 1. Materials, unless noted otherwise: ASTM C 33 a. Normal weight aggregates
- i. Combined aggregate gradation for slabs on grade and other designated concrete shall be 8% 18% for large top size aggregates (1.1/2") or 8% - 22% for smaller top size aggregates (1" or 3/4") retained on each sieve below the top size and above the No. 100. The range for the No. 30 and No.50 sieves shall be 8% - 15% retained in each. To avoid gap gradation the following shall occur: 1. The percent retained on two adjacent sieves shall not fall below 5%.
- The percent retained on three adjacent sieves shall not fall below 8%.
- 3. When the percent retained on two adjacent sieves is less than 8%, the total retained on either of these sieves and the adjacent outside sieve shall be at least 13%. See ACI 302 Section 5.4.3.3 for more information. Maximum Aggregate Size shall not be larger than:
- 1. 3.1/2" or 1/5 the narrowest dimension of the forms
- 2. 1/3 the depth of the slab 3. 3/4 the minimum clear spacing between bars
- b. Reinforcing Steel
- c. Deformed Bar Anchors (DBA)
- d. Headed Stud Anchors (HSA)
- e. Anchor Rods f. Admixtures:
- Air-entraining admixtures shall comply with ASTM C 260 (when used).
- Calcium chloride shall not be added to the concrete mix.
- Retarding admixture shall comply with ASTM C 494/C 494M, Type B (when used).
- vi. High-range, water-reducing admixture shall comply with ASTM C 494/C 494M, Type F (when used).
- (when used).
- admixtures shall be from the same manufacturer. g. Type I/II cement complying with ASTM C-150 shall be used for all concrete. Cement source shall remain
- used with GU designation.
- cement as follows: Fly Ash - ASTM C618, Class F – 35% maximum cementitious content.
- ii. Slag Cement ASTM C989, Grade 100 or 120 50% maximum cementitious content.
- unconditioned spaces shall be considered site concrete.
- embedded in concrete.

31	8-19; Chapter 19):	
1 .	Footings & Interior Foundation Walls	
	Strength	3,0
	Classification	F0,
).	Exterior Foundation Walls	
	Strength	3,5
	Classification	F1,
).	Interior Slabs on Grade	
	Strength	3,0
	Classification	F0,
١.	All Site Concrete	

Strength Classification

- 3. Reinforcement for concrete slabs on grade:
- below the top surface of the concrete.
- 4. Only one grade or type of concrete shall be poured on the site at any given time.
- 5. The contractor shall be responsible for the design, detailing, care, placement and removal of all formwork and shores.
- 6. Reinforcement shall have the following concrete cover:
- a. <u>Cast-in-place Concrete</u> Cast against and permanently exposed to ea
- Formed concrete exposed to earth or weather #6 thru #18 bars
- #5 and smaller bars iii. Concrete not exposed to weather or in conta
- Slabs, Walls and their piers, Joists; #11 bars Beams, Columns: Primary Reinf., Ties, Stirrups, Spirals
- 7. Detailing:
- minimum of 24" apart along the longitudinal axis of the reinforcing bars.
- b. At joints, provide reinforcing dowels to match the member reinforcing, unless noted otherwise. c. At all discontinuous control or construction slab on grade joints, provide 2 - #4 x 48".
- d. Corner Bars: Provide corner bars at intersecting wall corners using the same bar size and spacing as length. See "Typical Corner Wall Reinforcing at Concrete Walls" detail in drawings.
- (#8 bars and smaller) with hooks need not extend more than 20" into footings.

8. Construction Joints, Control (Contraction) Joints:

a. Construction joints in all horizontal and vertical construction joints including between top of footing and foundation walls shall be intentionally roughened to a full amplitude of approximately 1/4". The laitance on the concrete (thin, flaky layer of hardened, weakened hydrated cement) shall be mechanically removed from the surface after the concrete has achieved final set. Construction joints in slabs on grade shall not exceed a distance of 125'-0" o.c. in any direction.

- b. Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no more than 1.25:1. Control joints shall be completed as soon as final set is achieved and it is okay to operate the cutter on the slab. Final set is typically achieved within the first 4 to 12 hours after the slab has been finished in an area (depending on weather conditions and concrete hydration rate; 4 hours in hot weather to 12 hours in cold weather). For early entry saw cutting, joints should be cut within the first 1 to 4 hours (depending on weather conditions and concrete hydration rate; 1 hour for hot weather and 4 hours for cold weather). Where saw cut joints cannot be cut along the entire projected length of the joint, a 90-degree hand grinder or other tool shall be used to complete the joint. Control joints may be installed by:
- Saw cut a depth of 1/4 the thickness of the slab (1.1/4" ± for early entry saws) minimum.
- Tooled joints a depth of 1/4 the thickness of the slab c. For interior concrete slabs-on-grade that are to receive **no** floor covering, install construction or control joints in slabs on grade at a spacing not to exceed 24 times the slab thickness in any direction, unless noted otherwise. For interior concrete slabs-on-grade that are to receive floor coverings the contractor has the option to increase the control joint spacing to 36 times the slab thickness in any direction.

9. Construction

- a. Use chairs or other support devices recommended by the CRSI to support and tie reinforcement bars prior to placing concrete. Reinforcing steel for slabs on grade shall be adequately supported. Support reinforcing steel of slabs on grade with precast concrete units. Lifting the reinforcing off the grade during placement of concrete is not permitted.
- b. Concrete to be mechanically consolidated during placement per ACI standards.
- c. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement. d. All embeds, anchors and dowels shall be securely tied to formwork or to adjacent reinforcing prior to
- the placement of concrete. e. No pipes, ducts, sleeves, etc shall be placed in structural concrete unless specifically detailed or approved by the structural engineer. Penetrations through walls when approved shall be built into the wall prior to concrete placement. Penetrations will not be allowed in footings or grade beams unless
- detailed. Piping shall be routed around footings and grade beams and unless detailed. Footings shall be stepped to avoid piping. f. Reinforcing Bars shall not be welded unless specifically shown on drawings. In such cases, use only
- AWS standards. Do not substitute reinforcing bars for DBAs or HSAs.

POST-INSTALLED ANCHORS

- 1. General Post-Installed Anchor Notes a. Do not install adhesive anchors in concrete if less than 21 days old; do not install mechanical anchors, screw anchor or powder actuated anchors in concrete less than 7 days old. Contractor must obtain written approval from the engineer to install prior to these time periods. Do not apply full load to anchors until concrete has reached 28-day compression strength.
- b. Anchors or adhesives specified in details shall be provided; alternative anchors or adhesives may be used if the contractor provides calculations demonstrating that the alternative can achieve the performance values of the specified product. These calculations, along with an ICC-ES ESR or IAPMO-UES ER approval for use in cracked concrete and compliant with the specified codes herein, must be submitted to the structural engineer prior to use.
- c. Follow all the manufacturer's recommendations and certification testing reports for anchor installation. See specific anchors below for more information.
- d. No anchor shall be installed within 1.5 anchor rod diameters of an abandoned hole that has been filled with non-shrink grout; increase distance to 3 anchor rod diameters when the abandoned hole has not been filled.
- 2. Adhesive Anchors
- a. For anchors in concrete, the adhesives shall be divided into two groups: Standard Adhesives and High Strength Adhesives. Standard adhesives can be used in general applications when details reference the "Standard Adhesive Embedment Schedule" in drawings. High Strength adhesive groups will be specified for the particular application in the drawings and details. When a High Strength Adhesive is specified, the contractor has the option to use any of the adhesives in the High Strength group. When a Standard Adhesive is specified, the contractor has the option to use any of the adhesives in either group. See below for the acceptable adhesives in each group.
- i. Standard Adhesive Group for anchors in concrete includes the following adhesives: 1. SET-XP (ICC-ES ESR-2508) by Simpson Strong-Tie
- 2. Pure 50+ (ICC-ES ESR-3576) by Dewalt
- 3. AC100+ Gold (ICC-ES ESR-2582) by Dewalt
- 4. HIT-RE 100 (ICC-ES ESR-3829) by Hilti, Inc.
- ii. High Strength Adhesive Group for anchors in concrete includes the following adhesives: SET-3G (ICC-ES ESR-4057) by Simpson Strong-Tie
- 2. Pure 110+ (ICC-ES ESR-3298) by Dewalt
- 3. AC200+ (ICC-ES ESR-4027) by Dewalt
- 4. HIT-RE 500-V3 (ICC-ES ESR-3814) by Hilti Inc.
- 6. HIT-HY 200 (ICC-ES ESR-3187) by Hilti Inc.
- b. For anchors in grouted masonry, the adhesive shall be HIT-HY-200-A (ICC-ES ESR-3963) by Hilti Inc., HIT-HY-200-R (ICC-ES ESR-3963) by Hilti Inc., SET-XP (IAPMO UES ER-265) by Simpson Strong-Tie Inc. or AT-XP (IAPMO UES ER-281) by Simpson Strong-Tie Inc., AC100+ (ICC-ES ESR-3200) by Dewalt or CIA GEL (ICC-ES ESR-1702) by USP. c. For anchors in ungrouted masonry, the adhesive shall be HIT-HY 270 (ICC-ES ESR-4143) by Hilti Inc.,
- or SET (ICC-ES ESR-1772) by Simpson Strong-Tie Inc. or AC100+ (ICC-ES ESR-3200) by Dewalt. Plastic mesh or stainless steel screen tubes shall be used.
- d. Adhesive shall be within the manufacturer's recommended life time and prior to expiration date. Do not use adhesive that has not been stored per manufacturer's recommendations or may have experienced freeze thaw cycles or extreme heat.
- e. Do not install adhesive anchor in wet or damp hole unless product is approved for such conditions without strength reduction. Do not install adhesive anchors if concrete temperature is below 50-degree F unless adhesive is approved for lower temperature without strength reduction. Refer to manufacturer's published installation instructions.
- f. Follow all the manufacturer's recommendations and certification testing reports regarding hole cleaning prior to adhesive installation. All holes shall be drilled with ANSI standard bits designed for concrete. Diamond core drilled holes are not allowed unless indicated in specific details or approved by the structural engineer prior to use.

3. Mechanical Anchors

a. For concrete, the mechanical anchor shall be Kwik Bolt TZ2 (ICC-ES ESR-4266) by Hilti Inc., Strong-Bolt 2 (ICC-ES ESR-3037) by Simpson Strong-Tie Inc. or Power-Stud+ SD2 (ICC-ES ESR-2502) by Dewalt. b. For grouted masonry, the mechanical anchor shall be Kwik Bolt 3 (ICC-ES ESR-1385) by Hilti Inc., Wedge-All (ICC-ES ESR-1396) by Simpson Strong-Tie or Strong-Bolt 2 (IAPMO-UES ER-240) by Simpson Strong-Tie or Power-Stud+ SD1 (ICC-ES ESR-2966) by Dewalt.

4. Screw Anchors

a. For concrete and grouted masonry, the screw anchors shall be Titen HD (ICC-ES ESR-2713 for concrete only and ICC-ES ESR-1056 for grouted masonry) by Simpson Strong-Tie, or Screw-Bolt + (ICC-ER ESR-3889 for concrete only) by DeWalt, Screw-Bolt+ (ICC-ES ESR-4042 for grouted masonry) by Dewalt, or Kwik HUS-EZ (ICC-ES ESR-3027 for concrete only and ICC-ES ESR-3056 for grouted masonry) by Hilti Inc

ASTM 615 Grade 60 (Fy = 60 ksi) Use Grade 40 (Fy = 40 ksi) for field bent dowels with

spacings indicated reduced by 1/3. ASTM A496

ASTM A108 See Structural Steel section

iii. Water-reducing admixture shall comply with ASTM C 494/C 494M, Type A (when used)

v. Water-reducing and retarding admixture shall comply with ASTM C 494/C 494M, Type D (when

vii. High-range, water-reducing and retarding admixture shall comply with ASTM C 494/C 494M Type G

viii. Admixture manufacturer shall have ISO 9001 Quality Certification. To ensure compatibility all

the same for the entire job. Alternatively, blended hydraulic cement complying with ASTM C595, or performance based hydraulic cement manufactured to meet the requirements of ASTM C1157 can be

h. The water/cementitious materials ratios shall meet the requirements of Table 19.3.2.1 of ACI 318-19. i. Cementitious Materials – Limit percentage, by weight, of cementitious materials other than portland

Provide air entraining as recommended by Table 19.3.3.1 of ACI 318-19. Concrete that extends above grade and is exposed to freezing and thawing while moist shall be air-entrained. Concrete in

k. No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be

2. Compressive strengths of concrete at 28 days shall meet the following performance requirements (see ACI-

000 psi S0, W0, C0

500 psi

, S0, W0, C0

000 psi , S0, W0, C0

5,000 psi F3, S0, W1, C2

a. 4" thick concrete slab on grade. Reinforce slab with #3 bars at 24" o.c. each way with 1.1/2" max cover

a. Supporting forms and shoring shall not be removed until structural members have acquired sufficient strength to safely support their own weight and any construction load to which they may be subjected. In no case, however, shall forms and shoring be removed in less than 24 hours after concrete placement.

over:	
	<u>Clear Cover</u>
arth	3"
er:	
	2"
	1.1/2"
act with ground:	
s and smaller	3/4''
una Chirala	1 1/0"

1.1/2"

a. Lap splice lengths shall be detailed to comply with the "Concrete Reinforcing Bar Lap Splice Schedule" in drawings. Splices may be made with mechanical splices capable of 125% tension capacity of the bar being spliced. Mechanical splices shall be the positive connecting type coupler and shall meet all International Building Code requirements and shall have a current ICC-ES report or IAPMO Certification. Use "Lenton" Standard Couplers (ICC ER-3967), "Bar-Lock" (ICC ESR-2495) or equal with internal protector. If mechanical splices are used, splices or couplers on adjacent bars shall be staggered a

the horizontal wall reinforcing. Corner bars shall lap the horizontal reinforcing with the required lap splice

e. All vertical reinforcing shall be doweled to footings, or to the structure below with the same size and spacing as the vertical reinforcing for the element above. Dowels extending into footings shall terminate with a 90-degree standard hook and shall extend to within 4" of the bottom of the footing. Footing dowels

f. Horizontal wall reinforcing shall be continuous through construction and control joints.

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architects

MASONRY

- 1. Materials, unless noted otherwise: a. Concrete Masonry Units (CMU) ASTM C90: Light weight (minimum net area unit strength of 2,000 psi).
- f'_m = 2,000 psi. b. Mortar Cement ASTM C270: Use Type "S"
- c. Masonry Grout ASTM C476: grout shall attain a minimum compressive strength of 2,500 psi at 28 days. d. Reinforcing Steel
- ASTM A496 e. Deformed Bar Anchors (DBA) ASTM A108
- f. Headed Stud Anchors (HSA) g. Anchor Rods
- 2. Reinforcement shall have the following cover:
- a. Typical reinforcement shall have a minimum coverage of one bar diameter over all the bars, but not less than 3/4". When masonry is exposed to soil, minimum coverage shall be 1.1/2".

3. Detailing Requirement

- a. Lap all masonry reinforcing per "Masonry Reinforcing Lap Splice Schedule" in drawings. b. All vertical reinforcing shall be doweled to the foundation wall, footing (structure below) and to the structure below with the same size dowel, spacing (and in the same core) as the vertical wall reinforcing above.
- c. Corner Bars: Provide corner bars at intersecting wall corners using the same bar size and spacing as the horizontal wall reinforcing. Corner bars shall lap the horizontal reinforcing with the required lap splice length. See "Typical Corner Wall Reinforcing" detail in drawings.
- d. Horizontal wall reinforcing shall be continuous through joining concrete walls, masonry walls, columns, and pilasters. Provide a key between the wall and the column or pilaster. Horizontal wall reinforcing shall be placed inside the column vertical reinforcing.
- e. Horizontal wall reinforcing shall terminate with a hook at edge of openings and at each side of control
- f. All masonry column ties shall terminate with 135-degree hooks plus a 6-bar diameter extension (4" minimum).

Construction Requirements:

- a. Masonry coursing shall be coordinated with the architectural drawings. b. All units shall be laid with full mortar beds on the face shells. All head joints shall be filled solidly with mortar for a distance in from the face of the units not less than the thickness of the longitudinal face shells. Cells which are to be grouted shall have full head joints.
- c. Masonry walls, beams and columns shall be constructed with running bond, unless noted otherwise. d. All cells containing reinforcement, embeds, anchor bolts, etc. shall be filled solid with grout. Grout shall be placed by mechanical vibration during placing and re-vibrated after excess moisture has been absorbed but before workability is lost. Rodding of grout is not allowed.
- e. Where walls are not grouted solid, each grout pour shall terminate flush with the top of the uppermost unit except at cells with vertical reinforcing where the grout shall be 1.1/2" below top of unit to provide construction key.
- f. Grout pours shall be limited to 5'-4" unless written approval is obtained from the engineer of record. g. All walls below grade shall be grouted solid. h. Vertical cells to be filled with grout shall have vertical alignment sufficient to maintain a clear, unobstructed vertical cell measuring not less than 2" by 3". All steel reinforcement shall be secured against displacement prior to grouting by wire positioners or other suitable devices at intervals not
- exceeding 200 bar diameters or 10 ft maximum, or at bar splice locations. Vertical reinforcing shall be located at the center of the wall unless noted otherwise Reinforcing Bars shall not be welded unless specifically shown on drawings. In such cases, use only
- AWS standards. Do not substitute reinforcing bars for DBAs or HSAs. Control Joints: Spacing shall not exceed 30'-0". Control joints shall not be placed any closer than 4'-0" to edge of openings. Control joints shall not be placed in the middle of masonry piers. See architectural drawings for locations.
- k. Grout all beam and joist pockets solid after installation of beams and joists. I. Embed channels and plates shall be placed so as to create a flush surface with the face of the wall. m. Anchor bolts and headed stud anchors shall be set in a grouted cell. Anchor bolts and headed stud anchors shall have 1" grout surrounding the shank at its penetration. Grout shall be flush with the face or
- top of the masonry. n. Pipes, conduits, and ducts shall not be placed in grouted cells without written approval from engineer.
- o. No aluminum conduit or product containing aluminum or any other material injurious to the masonry or grout shall be embedded in the masonry.
- p. Contractor shall coordinate placement of all openings, dowels, sleeves conduits, bolts, inserts and other embedded items prior to placing grout.

MASONRY VENEER

1. Masonry veneer shall be attached to masonry walls with an approved veneer anchor system spaced at 16" o.c vertically and horizontally. Where high performance continuous insulation is used on the project, provide thermally broken systems. Masonry veneer shall attach to veneer anchor system with continuous

- galvanized 9 gauge wire and seismic clip at all locations. See below for acceptable veneer anchors. a. Hohmann & Barnard HB-213S veneer anchoring system
- b. Hohmann & Barnard DW10HS veneer anchoring system
- c. Hohmann & Barnard X-SEAL veneer anchoring system d. Wire Bond Sure Tie veneer anchoring system
- e. Wire Bond 2407 Adjustable veneer anchoring system
- f. Heckmann Original Pos-I-Tie Brick veneer anchoring system
- 2. Other methods of attachment may be used after written acceptance by the architect and structural engineer
- 3. Steel Lintels: Provide steel angle lintels at all openings through the masonry veneer. See Structural Steel section for requirements.

STRUCTURAL STEEL

ASTM 615 Grade 60 (Fy = 60 ksi)

ASTM F1554, Grade 36 with ASTM A563 heavy hex nuts and ASTM F436 hardened washers

joints except at floor and roof levels, lintels, beams and at top of parapets. See details in drawings.

- 1. Material:
- a. Wide Flange Sections b. All Thread Rods, Other Shapes & Plates ASTM A36 (36 ksi)
- c. Square or Rectangular HSS d. Deformed Bar Anchors (DBA)
- e. Headed Stud Anchors (HSA)
- f. Non-Metallic Shrinkage Resistant Grout g. Anchor Rods
- h. Bolted Connections:
- Fabrication and construction shall comply with the latest edition of the following Codes and Standards: a. American Institute of Steel Construction (AISC), "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings," with "Commentary"

ASTM A496

ASTM A108

ASTM C 1107

ASTM A992 (50 ksi)

ASTM F436 hardened washers.

ASTM A500 (50 ksi) Grade C or ASTM A1085 (50ksi)

ASTM F1554, Grade 36, with ASTM A563 heavy hex

ASTM F3125 Grade A325 with ASTM A563 nuts and

nuts and ASTM F436 hardened washers Grade A

- b. AISC "Code of Standard Practice" excluding the following: Section 3.2, Section 4.4, Section 4.4.1, c. AISC "Specification for Structural Joints Using High-Strength Bolts" d. American Welding Society (AWS), Structural Welding Code (specific items do not apply when they
- conflict with the AISC requirements).
- e. AISC "Seismic Provision for Structural Steel Buildings"- ANSI/AISC 341 f. All exterior steel elements, including anchor rods and bolts shall be hot dip galvanized in accordance with ASTM A123 and A153 where applicable.
- Welding
- a. Field weld flags that have been put in these documents are for suggestion only. The contractor has the option to substitute shop welding for field welding or vice versa. The steel fabrication and steel erection drawings must clearly distinguish between shop welds and field welds prior to any work being performed. b. Steel fabricators shall indicate the shop welds that are excluded from their bids. Steel erectors shall indicate the field welds that are excluded from their bids. It is the responsibility of the contractor to
- coordinate shop welding and field welding with the appropriate subcontractors. c. All welding and cutting shall be performed by AWS certified welders.
- d. Use E-70 XX (58 ksi yield, 70 ksi tensile) unless noted otherwise. E60 XX may be used for welding steel decks e. All intersecting steel shapes which are not bolted shall be connected by a fillet weld all around, unless
- noted otherwise. Where fillet weld sizes are not shown they shall be 1/16" less than the thinnest of the connected parts for thicknesses 1/4" and larger. Fillet welds on plates less than 1/4" shall be of the same size as the thinnest of the connected part.
- f. Reinforcing Bars: Do not weld rebar except as specifically detailed in the drawings. In such cases, use only AWS standards. Do not substitute reinforcing bars for deformed bar anchors (DBAs), machine bolts, or headed stud anchors (HSAs).
- g. Do not weld anchor bolts, including "tack" welds. h. Headed Stud Anchors (HSAs) welding and deformed bar anchor welding shall conform to the manufacturer's specifications.
- 4. Bolted Connections:
- a. Use bolts for steel to steel connections, as noted herein or as noted on the drawings. Bolts shall be used in connections for simple span framing and beam (or girder) to bearing plate connections. Tighten bolts to a snug tight condition. At connections of beams marked as 'SRE' on the drawings, bolts shall be pretensioned per AISC 360 and tightened by the turn of the nut, calibrated wrench, or direct tension indicator method. Alternate fastener designs as defined by AISC shall be submitted to the engineer for review and acceptability prior to installation. See bolted connections schedule in drawings.
- b. Use hardened washers beneath the turned element of all bolts or nuts. Use hardened beveled washers, to compensate for the lack of parallelism, where the outer face of the bolted parts has a slope greater than one in twenty with respect to the plane normal to the bolt axis. At oversized holes hardened washers or plates shall conform with ASTM F-436 and shall completely cover the slot after installation. c. Where a steel to steel beam connection is not shown, provide a standard AISC framed connection for
- one half the total uniform load capacity of the beam for the span and steel specified. d. Bolts, nuts and washers shall not be reused.
- Steel Lintels: Provide steel angle lintels at all openings through masonry veneer. Provide 1" of bearing for each foot of width of opening with a minimum bearing of 6". See the "Veneer Lintel Schedule" in drawings for size. Steel lintel angles shall be galvanized at all exterior conditions where exposed to weather.
- Provide baseplate anchor rod connections to concrete elements that correlate with ACI 117. Circular or square washers are acceptable.

ANCHOR ROD	HOLE	WASHER	WASHER
DIAMETER	DIAMETER	SIZE	THICKNESS (MIN)
3/4"	1.5/16''	2"	1/4''
7/8"	1.9/16''	2.1/2"	5/16''
1"	1.7/8"	3"	3/8''
1.1/4"	2.1/8"	3.1/2"	1/2"
1.1/2"	2.3/8"	4"	1/2"
1.3/4"	2.7/8"	4.1/2"	5/8"
2"	3.1/4"	5"	3/4"
2.1/2"	3.3/4"	5.1/2"	7/8"

7. Provide full-depth web-stiffener plates where indicated in the details including at each side of all beams at all bearing points. Stiffener plate thickness shall be the greater of the following: a. 1/4"

- b. 1/2 the thickness of the beam flange
- c. 1/16 the width of the stiffener (half the beam flange width). d. 1/32 the depth of the beam

Stiffener plates shall be welded on one side with fillet welds all around. The size of the fillet weld shall be 1/2 the stiffener plate thickness or 3/16" min.

OPEN WEB STEEL JOISTS

- 1. All open web steel joist shall be fabricated and erected in accordance with the latest edition of Steel Joist Institute (SJI), "Standard Specifications and Code of Standard Practice".
- 2. At the completion of fabrication, the steel joist manufacturer shall submit to the building official a certificate of compliance in accordance with IBC Section 1704.2.5 stating if the work was performed in accordance with approved construction documents and with SJI standard specifications.
- 3. Joists with slopes greater than 1/2" per foot shall be designed to meet or exceed the load capacities, listed in the SJI load tables, of the joist sizes indicated on the framing plan, as if the joists or girders were installed level.
- 4. Provide special bearing ends to accommodate slopes from sloped joists, or sloped bearing conditions.
- 5. Modifications to any joist, including holes through the top and bottom chords, without the written consent and direction from the manufacturer are not allowed.
- 6. Joist loads called out in the drawings are allowable stress design (ASD) loads.
- 7. Open web joist deflection shall be limited to L/240 for total loads and L/360 for roof live loads (or snow loads), unless noted otherwise on plans. The SJI required camber can be subtracted when considering the total load deflection requirements.
- 8. Camber joist per typical SJI requirements, unless noted otherwise on plans.
- 9. Joist bridging shown on plans is for schematic purposes only; actual size, quantity and location of bridging shall be determined by the joist supplier per SJI. Coordinate bridging locations to avoid interference with mechanical, electrical and fire protection equipment and skylights.

METAL DECKING

- 1. Steel deck shall comply with the latest requirements of the Steel Deck Institute.
- 2. All deck shall be 3-span continuous minimum. In areas where 3-span conditions are not possible, the contractor shall provide heavier gage deck as required to provide the equivalent loading of the deck under a three-span condition.
- 3. Steel roof deck shall not be used to support loads from plumbing, HVAC ducts, light fixtures, architectural elements or equipment of any kind, unless specifically noted. Light weight suspended acoustical ceilings with a total weight of 50 lbs per attachment may be hung from roof deck. The hangers shall be staggered to distribute the loads over multiple deck flutes.
- 4. All deck supporting members shall be dry before welding.
- 5. Clinch seams before welding interlocking seams
- Steel Roof Deck
 - a. Steel roof deck shall be 1.1/2" deep X 20 gage (or 18 gage as indicated on plans) minimum painted, type "B" wide rib deck with interlocking side seams with the following properties: 20 Gade 18 Gade 16 Gade

	<u>zu Gage</u>	To Gage	TO Gage
Minimum S (in³/ _{ft}) =	0.237	0.331	0.410
Minimum I (in ⁴ / _{ft}) =	0.231	0.306	0.381

b. Minimum allowable deck diaphragm shear values shall be 400 lbs/ft for a 7'-0" deck span. c. Fasten deck to supporting framing members with powder-driven fasteners. Powder-driven fasteners shall be as indicated below based on the steel framing thicknesses:

	<u>v</u>			
Stool Framing		ICC-ESR or		
Steer Framing	Fastener	IAPMO report		
Thickness		number		
0.125" to 0.375"	Hilti X-HSN-24	ICC-ESR 2776		
0.25" and up	Hilti X-ENP-19 L15	ICC-ESR 2776		
0.113" to 0.155"	Pneutek SDK61075	ICC-ESR 2941		
0.155" to 0.250"	Pneutek SDK63075	ICC-ESR 2941		
0.188" to 0.312"	Pneutek K64062	ICC-ESR 2941		

- 0.281" and up Pneutek K66062 ICC-ESR 2941 d. For type "B" metal deck, fasteners shall be placed based on a 36/7/4 attachment pattern (Closer spacings may be used to develop minimum shear requirements):
- i. Supports perpendicular to deck corrugations: 1. At lap joints between adjacent deck sheets: 6" o.c.
- 2. At intermediate supports away from lap joints: 12" o.c.
- 3. At all steel elements labeled 'SRE' on plan: 6"o.c.
- ii. Supports parallel to deck corrugations: 6" o.c.
- e. In lieu of mechanical fasteners, contractor may weld deck to supporting framing members with 3/4" diameter puddle welds at the same spacing for deck pins as indicated above.
- f. Attach metal deck seams with one of the following:
- i. 1.1/2" long top seam welds at 24 o.c. maximum
- Verco PunchLok II System at 24 o.c. maximum iii. ASC Delta Grip System at 36 o.c maximum
- iv. CSI Inter-Knek System at 36 o.c maximum
- Closer spacing may be used to develop minimum shear requirements. A standard button punch may **not** be used in place of Verco PunchLok, DeltaGrip or CSI Inter-Knek
- g. Provide a 2" minimum bearing and a 4" lap at the splice points.

STATEMENT OF SPECIAL INSPECTION AND QUALITY ASSURANCE

Special inspection and quality assurance (including structural testing), as required by section 1704 and 1705 of the 2021 IBC, shall be provided by an independent agency employed by the owner for the items in this section and other areas of the approved construction documents, unless waived by the building official. The names and credentials of the Special Inspectors to be used shall be submitted to the Building Official for approval. Responsibilities of the Special Inspector Special Inspector shall review all work listed in the special inspection schedules herein for conformance with the approved construction plans, specifications and 2021 IBC. Testing and inspection reports shall be sent on a weekly basis to the architect, engineer, building official and contractor for review. All items not in compliance shall be brought to the immediate attention of the contractor for correction, and if uncorrected, to the architect, engineer and building official. Once corrections have been made by the contractor, the special inspector shall submit a final signed report to the building official stating that the work requiring special inspection was, to the best of the special inspector's knowledge, in conformance with the approved construction plans, specifications and 2021 IBC. Responsibilities of the Contractor The contractor shall submit a written statement of responsibility to the owner and the building official prior to the commencement of work in accordance with 2021 IBC section 1704.4. This statement shall indicate that the contractor will coordinate and cooperate with the required inspections contained herein. The contractor shall notify the designated special inspector that work is ready for inspection at least 24 hours before said inspection is required. All work requiring special inspection shall remain open and accessible until it has been observed by the special inspector and deemed acceptable through inspection report. Special inspection during fabrication is not required if the fabricator is registered and approved by the authority having jurisdiction to perform such work without special inspection. Upon completion of fabrication, the approved fabricator shall submit a certificate of compliance for submittal to the building official. The contractor shall be responsible for their own quality control including materials,

SOILS CONSTRUCTION INSPECTIONS

Soils (2021 IBC Section 1705.6, and Table 1705.6)							
	INSPECTION FREQUENCY		COMMENTS				
TEM FOR VERIFICATION & INSPECTION	CONTINUOUS	PERIODIC	COMMENTS				
Site Preparation	-	x	Verify excavations are extended to proper depth and have reached proper materials. Verify that the site has been prepared in accordance with the soils report prior to placement of prepared fill.				
Fill Material	x	-	Verify, during fill placement, that the material being used and procedures in accordance with the provisions of the approved geotechnical report. Verify densities and lift thicknesses during placement and compaction of the fill.				
Continuous Footing Backfill: at least one test for each 40 linear feet or less of wall length, but no fewer than 2 tests.	-	x	At each compacted backfill layer.				
Spot Footing Backfill: Minimum of one compaction test for each lift for each spot footing.	-	x	At each compacted backfill layer.				
See specifications for further requirements.	-	-					

fabrication, erection, etc.

CONCRETE CONSTRUCTION INSPECTIONS

Concrete (2021 IBC Section 1705.3, Table 1705.3, and Section 1904) The following concrete elements require special inspection:

All concrete footings, All concrete walls, i	ncluding foundat	tion walls.	
ITEM FOR VERIFICATION & INSPECTION INSPECTION FREQUENCE		REQUENCY	COMMENTS
TENTFOR VERIFICATION & INSPECTION	CONTINUOUS	PERIODIC	COMMENTS
Protection of concrete during cold and hot weather	-	x	Verify maintenance of specified curing temperature and techniques
Verify materials used including use of the required mix design	-	x	Verify Use of required design mix. Verify mix design meets strength and exposure requirements listed on General Structural Notes
Formwork	-	x	Verify shape, location and member dimensions
Testing of concrete prior to concrete placement	-	x	Fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.
Bolts installed in concrete	x	-	Inspection of anchors or embeds cast in concrete is required when allowable loads have been increased or where strength design is used. Prior to and during concrete placement.
Embeds and Inserts installed in concrete	X	-	Prior to and during concrete placement.
Concrete reinforcing steel placement	-	x	Verify that reinforcing is of specified type, grade and size; that it is free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report.
Concrete placement and samples	x	-	Cylinders, slump, temperature and air-entrainment shall be done for every 150 cubic yards or each day's production if the day's production is less than 150 cubic yards nor less than once for each 5000 sq. ft of surface area for slabs and walls.
Welding of reinforcing steel	-	x	Visually inspect all welds and verify weldability of reinforcing steel based upon carbon equivalent and in accordance with AWS D1.4.
See specifications for further concrete testing requirements.	-	-	

STEEL BOLTED CONSTRUCTION INSPECTIONS

Where special inspections are listed under "Random Basis", special inspection of elements and items shall be performed on a random basis. Operations need not be delayed pending these inspections. Where special inspection items are listed under "Every Element", special inspection shall be performed for each element, joint, or member, as applicable based on the task listed below.

	INSPECTION PLAN		
ITEM FOR VERIFICATION & INSPECTION	Every Element	Random Basis	COMMENTS
Inspection Tasks Prior to Bolting			
Manufacturer's certifications available for fastener materials	x	-	
Fasteners	-	x	Marked in accordance with ASTM requirements
Proper fasteners selected for the joint detail	-	x	Including grade, type, bolt length if threads are t be excluded from shear plane.
Proper bolting procedure selected for joint detail	-	x	
Connecting elements	-	x	Including the appropriate faying surfact condition and hole preparation, if specified, meet applicable requirements
Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used	-	х*	Not required if only snug-tight joints are specifie per [Section N5.6(1) of AISC 360-16]) Specia Inspector shall document the work has bee performed in accordance with the contract documents, either in the shop or field, includin noncompliant work and whether that work has been satisfactorily repaired.
Proper storage	-	x	Storage provided for bolts, nuts, washers an other fastener components
Inspection Tasks During Bolting			
Fastener assemblies, of suitable condition	-	x	Verify that fasteners placed in all holes an washers (if required) are positioned as required
Joint	-	x	Verify that joint brought to the snug-tigh condition (min) unless noted otherwise.
Fastener component	-	x	Verify that fastener component not turned by th wrench prevented from rotating
Pretensioned Fasteners	-	x	Verify that pretensioned fasteners ar pretensioned in accordance with the RCS <i>Specification</i> , progressing systematically from th most rigid point toward the free edges (No required if only snug-tight joints are specified pe [Section N5.6(1) of AISC 360-16]; Not required fo pretensioned joints using turn-of-the-nut metho with match-marking, direct-tension-indicators of twist-off type tension control bolt methods)
Inspection Tasks After Bolting			
Document acceptance or rejection of each bolted connection	x*	-	Special Inspector shall document the work has been performed in accordance with the contract documents, either in the shop or field, includin

*Required for elements designated in these structural drawings as "Seismic Resisting Elements – SRE".

STEEL WELDED CONSTRUCTION INSPECTIONS

Definition of Terms

Where special inspections are listed under "Random Basis", special inspection of elements and items shall be performed on a random basis. Operations need not be delayed pending these inspections. Where special inspection items are listed under "Every Element", special inspection shall be performed for each element, joint, or member, as applicable based on the task listed below.

360-16 Chapter N and AISC 341-16	Chapter J)		
-	INSPECTION PLAN		
ITEM FOR VERIFICATION & INSPECTION	Every Element	Random Basis	COMMENTS
Inspection Tasks Prior to Welding			
Welding procedures specifications and manufacturer certifications for welding consumables shall be available	x	-	Welding procedures shall be submitted to the Engineer of Record for review.
Material identification (type/grade)	-	x	
Welder identification system	-	x	Verify there is a system in place to identify the welder who has welded a joint or member.
Fit-up of groove welds	-	x	Including joint geometry, joint preparation, dimensions, cleanliness, tacking and backing type and fit.
Configuration and finish of access holes	-	x	
Fit-up of fillet welds	-	x	Including alignment, gaps at root, dimensions, cleanliness and tacking.
Check welding equipment	-	x	
Inspection Tasks During Welding			
Use of qualified welders	-	x	
Control and handling of welding consumables	-	x	Including packaging and exposure control
Cracked tack welds	-	x	Verify no welding over cracked tack welds.
Environmental conditions	-	x	Including wind speed within limits and
WPS followed	-	x	Including settings on welding equipment, travel speed, selected welding materials, shielding gas type/flow rate, preheat applied, interpass temperature (min./max.) maintained, proper position (F, V, H, OH)
Welding techniques	-	x	Including interpass and final cleaning, each pass within profile limitations, each pass meets quality requirements
Inspection Tasks After Welding			
Welds cleaned	-	x	
Size, length and location of welds	х	-	
Welds meet visual acceptance criteria	x	-	Including crack prohibition, weld/base-metal fusion, crater cross section, weld profiles, weld size, undercut and porosity.
Arc strikes, k-area, weld access holes for flanges greater than 2", backing removed and weld tabs removed (if required), repair activities	x	-	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" of the weld.
Ultrasonic testing (UT) for complete- joint-penetration (CJP) groove welds, partial penetration groove welds when used in column splices, and welds subject to fatigue	x	-	Perform UT on all welds subject to transversely applied tension loading in butt, T- and corner joints, in material 5/16" thick or greater. For materials less than 5/16" thick, ultrasonic testing is not required. A reduction in the rate of UT is allowed per Section N5.5e
Document acceptance or rejection of each welded joint or member	x	-	

OPEN-WEB STEEL JOIST CONSTRUCTION INSPECTIONS

Installation of open-web steel joists (IBC 2021 Section 1705.2.3, and Table 1705.2.3)			
ITEM FOR VERIFICATION &	M FOR VERIFICATION & INSPECTION		COMMENTS
INSPECTION	CONTINUOUS	PERIODIC	CONIVIENTS
End connections – welding or bolted	-	x	Follow SJI references listed in section 2207
Standard horizontal and diagonal bridging	-	х	Follow SJI references listed in section 2207
Bridging that differs from SJI specifications listed in section 2207.1	-	х	

MISCELLANEOUS STEEL CONSTRUCTION INSPECTIONS

Metal Deck Construction (2021 IB	C section 1705	5.2.2, AWS D	1.3, and section 6.1 of SDI QA/QC-2011)
ITEM FOR VERIFICATION &	INSPECTION FREQUENCY CONTINUOUS PERIODIC		COMMENTS
INSPECTION			CONNINENTS
Material verification of metal deck(s)	-	x	Confirm that identification markings are provided that conform to applicable ASTM standards specified on construction documents
Placement and installation of metal deck	-	x	Confirm that the deck is installed per the approved construction documents, installation drawings, shop drawings and applicable reference standards.
Steel deck welding/fastening	-	x	Visual inspection is required to verify size and spacing of welds/fasteners for deck attachment to the supporting structure. Also verify spacing and size of side-seam attachments. Confirm that welds/fasteners meet acceptance criteria of applicable referenced standards and manufacturer's instructions. Where applicable welder qualifications should be verified.

Structural Welding (2021 IBC section 1705.2.1 and section 1705.13.1 and section 1705.14.1 and AISC

MASONRY CONSTRUCTION INSPECTIONS Prior to Construction (2021 IBC soction 1705 4 and TMS 602 Table 2)

Prior to Construction (2021 IBC see	ction 1705.4 a	nd TMS 602	Table 3)			
ITEM FOR VERIFICATION	COMMENTS					
Verification of compliance of submittals	Verify that mat Mix design, test be submitted fo	Verify that materials conform to the requirements of the approved subm Mix design, test results, material certificates, and construction procedures s be submitted for review.				
Verification of f'm	Verify that mat documents.	Verify that materials conform to the requirements of the approved construd constru				
Verification of material certificates, mix designs, and test results	Mortar mix designs shall conform to ASTM C 270 while grout shall confo ASTM C 476. Material certificates shall be provided for the follo reinforcement; anchors, ties, fasteners, and metal accessories; masonry mortar and grout materials. Construction procedures for cold-weather o weather construction shall be reviewed					
As masonry construction begins (2	021 IBC sectio	on 1705.4 and	d TMS 602 Table 4)			
ITEM FOR VERIFICATION & INSPECTION	INSPECTION CONTINUOUS	FREQUENCY	COMMENTS			
Proportions of site-prepared mortar, construction of mortar	-	X				
Grade, type and size of reinforcement, connector, and anchors	-	x				
Sample wall panel construction	- x		Use materials and procedures accepted for Work to create a minimum sample panel s 4 ft by 4 ft. The acceptable standard for the is established by the accepted panel and ret at the project site until Work has been acce			
Prior to grouting and during cons (2021 IBC section 1705.4 and TMS	struction - Str 602 Table 4)	uctural Maso	onry shall have Level 2 special inspe			
ITEM FOR VERIFICATION & INSPECTION	INSPECTION	FREQUENCY	COMMENTS			
Grout Space	CONTINUOUS					
Placement, grade, type and size of reinforcement, connectors and anchor bolts and anchorages	-	x	Verify grout space is clean prior to grouting			
Proportions of site-prepared grout	-	Х				
Materials and procedures with the approved submittals	-	x				
Placement of masonry units and mortar joint construction	-	x				
Size and location of structural members	-	X				
Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction	-	x				
Welding of reinforcement.	X	-				

DOGT INOTALLED ANOLIOD INODERTIONS

Protection of masonry during cold

Grout placement (including verification of Slump flow and Visual Stability Index

(VSI) when self-consolidating grout is

Observe preparation of grout

specimens, mortar specimens and/or

weather (above 90 deg F)

delivered to the project site.)

prisms

weather (below 40 deg F) and hot

POST-INSTALLED ANCH	OR INSPECT	IONS		
ITEM FOR VERIFICATION &	INSPECTION FREQUENCY		CONAMENTS	
INSPECTION	CONTINUOUS	PERIODIC	COMINIENTS	
Post-Installed Anchors and Rein	forcing Bars (20	21 IBC Sec	tion 1705.1.1)	
Adhesive Anchors and Reinforcing Bars	x	-	Special inspection shall be performed per manufacturer's requirements and approved ICC-ES reports noted in POST-INSTALLED ANCHORS section of the General Structural Notes prior to installation of adhesive and anchor rod. If the anchor is not installed in a horizontal, upwardly inclined or overhead orientation meant to resist sustained tension loads, special inspection may be reduced to a periodic frequency.	
Mechanical Anchors and Screw Anchors	-	x	Special inspection shall be provided per manufacturer's requirements and approved ICC-ES reports noted in POST-INSTALLED ANCHORS section of the General Structural Notes prior to installation of mechanical or screw anchor.	

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STRUCTURAL OBSERVATION PROGRAM

CODE:	х	
STRUCTURAL OBSERVATION PROGRAM REQUIRED BY	YES	NO
deficiencies that to the best of the structural observer's knowledge have	e not been resolved	(See IBC 2021 1704.6).
shall submit to the building official a written statement that the site visits have been made and identify any reported		
inspections indicated in these structural drawings. At the conclusion	of the project, the o	lesignated structural observer
approved construction documents. Structural observation does not i	nclude or waive the	responsibility for the special
visually observe representative locations of structural systems, details	and load paths for g	general conformance with the
stages of construction listed in the Construction Notification Phases see	ction of these notes.	The structural observer shall
f structural observations are required, they shall be done by the Engineer of Record or an approved subordinate at the		

CONSTRUCTION MILESTONE SCHEDULE

CONTRACTOR TO NOTIFY ENGINEER AT THE FOLLOWING CONSTRUCTION PHASES: CONCRETE

CONCRETE	
Footings, stem walls and piers	Prior to pouring concrete
STEEL	
Roof deck	After welding/fastening and prior to roofing
MASONRY	
Masonry walls	Prior to pouring grout

DEFERRED SUBMITTALS

For the purposes of this section, deferred submittals are defined as per section 107.3.4.1 of the IBC 2021. Submittal documents for deferred submittal items shall be submitted to the engineer, architect and building official for their review for general conformance with the design of the building.

DEFERRED STRUCTURAL SUBMITTALS FOR THIS PROJECT ARE

Open web steel joists and girders (per IBC 2021 section 2207)

PROJECT FOR THE COLITH CANDETE COHOOL	DISTRICT BOARD OF EDUCATION	39 SOUTH MAIN MANTI, UTAH 84642	
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size of Work tained epted ction

is not ed or

The contractor has the option of using the 602 in lieu of the "Unit Strength Method." per) ICC-ES ection llation

"Prism Test Method" per ACI 530.1/ASCE 6/TMS

units; r ho

owing:

orm to

nittals. should uction

	LEGEND OF AE	BREVIATIO	NS
AB	ANCHOR BOLT(S)	k	KIP(S) = 1000 POUNDS
ABV	ABOVE	KLF	KIPS PER LINEAL FOOT
ALT	ALTERNATE	KSF	KIPS PER SQUARE FOOT
APPROX	APPROXIMATE		
ARCH	ARCHITECT(URAL)	LBS	POUNDS
		LF	
BLDG	BUILDING	LLH	
BLW	BELOW		
BIVI	BEAM	LSH	
		LSV	LONG SIDE VERTICAL
	BETWEEN	ΝΛΛς	MASONRY
	DETWEEN	MAY	
cc	CENTER-TO CENTER	MCL	
сс. С I		MECH	MASONIAL CONTROLISION
CIP		MEEN	MANUFACTURER
	GROOVE WELD (FULL PEN WELD)	MIN	MINIMUM
СМИ	CONCRETE MASONRY UNIT	MISC	MISCELLANEOUS
COL	COLUMN	ML-x	MASONRY LINTEL
CONC	CONCRETE	MP-x	MASONRY PIER
CONST	CONSTRUCTION	MW-x	MASONRY WALL
CP-x	CONCRETE PIER		
CTR	CENTER	NIC	NOT IN CONTRACT
CW-x	CONCRETE WALL	NTS	NOT TO SCALE
DB	DECK BEARING	O.C.	ON CENTER
DBA	DEFORMED BAR ANCHOR	O.F.	OUTSIDE FACE
DBE	DECK BEARING ELEVATION	OPNG	OPENING
DBL	DOUBLE	OPP	OPPOSITE
DET	DETAIL	OWSJ	OPEN WEB STEEL JOISTS
DIA	DIAMETER		
DIM	DIMENSION	PAF	POWDER-ACTUATED FASTENER
DN	DOWN	PCF	POUNDS PER CUBIC FOOT
DWG	DRAWING	PL	PLATE
DWL	DOWEL	PLF	POUNDS PER LINEAL FOOT
2112	201111	PSF	POUNDS PER SOUARE FOOT
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EA	EACH	РТ	POINT
E.F.	EACH FACE		
E.J.	EXPANSION JOINT	REINF	REINFORCING
ELEC	ELECTRICAL	REQD	REQUIRED
ELEV	ELEVATION	R.D.	ROOF DRAIN
E.O.D.	EDGE OF DECK	RTU	ROOF TOP UNITS
E.O.S.	EDGE OF SLAB		
EQUIP	EQUIPMENT	SBP-x	STEEL BASE PLATE MARK
EQ	EQUAL	SCW	SEISMIC CRITICAL WELD
E.W.	EACH WAY	SC-x	STEEL COLUMN MARK
EXST	EXISTING	SCP-x	STEEL CAP PLATE MARK
EXP	EXPANSION	SHT	SHEET
EXT	EXTERIOR	SI	SPECIAL INSPECTION
		SIM	SIMILAR
FC-x	CONTINUOUS FOOTING MARK	SMU	SUSPENDED MECHANICAL UNITS
F.D.	FLOOR DRAIN	SOG	SLAB-ON-GRADE
FDN	FOUNDATION	SQ	SQUARE
F.F.	FINISHED FLOOR	SRE	SEISMIC RESISTING ELEMENT
FR-x	RECTANGULAR FOOTING	STAG	STAGGERED
FS-x	SQUARE FOOTING MARK	STD	STANDARD
FT	FOOT	STL	STEEL
FTG	FOOTING	STR	STRUCTURAL
FTS-x	THICKENED SLAB MARK	STS	SELF TAPPING SCREWS
GA	GAUGE	T&B	TOP AND BOTTOM
GALV	GALVANIZED	TEMP	TEMPERATURE
GSN	GENERAL STRUCTURAL NOTES	THDS	THREADS
		Т.О.	TOP OF
HB	HORIZONTAL BRIDGING	TOC	TOP OF CONCRETE
HORIZ	HORIZONTAL	TOD	TOP OF DECK
HSA	HEADED STUD ANCHOR	TOF	TOP OF FOOTING
HT	HEIGHT	TOS	TOP OF STEEL
		TOW	TOP OF WALL
		TYP	TYPICAL
ICC	INTERNATIONAL CODE COUNCIL		
IBC	INTERNATIONAL BUILDING CODE	UNO	UNLESS NOTED OTHERWISE
I.F.	INSIDE FACE		
IN.	INCH	VERT	VERTICAL
INT	INTERIOR		
		W/	WITH
JT	JOINT	WT	WALL THICKNESS
JST	JOIST	WWF	WELDED WIRE FABRIC
		WWM	WELDED WIRE MESH

E

В

SN	OW DRIFT LEGEND
	INDICATES AREA OF SNOW DRIFT. JOIST SUPPLIER TO ADD SNOW DRIFT LOAD TO JOISTS AND GIRDERS
x psf 0 psf 0 rsf	INDICATES ADDITIONAL LOADING DUE TO SNOW DRIFT (SEE SNOW DRIFT NOTE) xx psf INDICATES LOAD AT HIGH POINT x'-x" INDICATES LENGTH OF DRIFT
x psf x psf x'-x"	INDICATES ADDITIONAL LOADING DUE TO SNOW DRIFT (SEE SNOW DRIFT NOTE) xx psf INDICATES LOAD AT HIGH POINT, x psf INDICATES LOAD AT LOW POINT x'-x" INDICATES LENGTH OF DRIFT SEE PLAN FOR SNOW DRIFT LOADING
SNOW DRIFT NOTE	THESE LOADS ARE IN ADDITION TO THE JOIST UNIFORM AND POINT LOADS SHOWN ON PLANS. JOIST SUPPLIER TO ADD SNOW DRIFT LOAD TO BOTH JOISTS AND GIRDERS

4

MARKS AND SYMBOLS LEGEND							
(•)	-SECTION MARK	FTRx x	INDICATES RECTANGULAR FOOTING, SEE				
•	—Sheet Number	T TOUX	SCHEDULE ON SHEET S601				
	-FOOTING DESIGNATION	C.J.	INDICATES CONTROL / CONSTRUCTION JOINT, SEE DETAIL(S) 4/S501				
	-TOP OF FOOTING ELEVATION	MCJ	INDICATES MASONRY CONTROL JOINT, SEE DETAIL 8/S501				
	INDICATES EXISTING WALL.	ML-x	INDICATES MASONRY LINTEL TYPE. SEE SCHEDULE ON SHEET S602				
a e a e	INDICATES CONCRETE WALL. DASHED WALLS STOP AT DECK	MP-x	INDICATES MASONRY PIER TYPE. SEE SCHEDULE ON SHEET S602				
	INDICATES MASONRY WALL. DASHED WALLS STOP AT DECK	SC-x	INDICATES STEEL COLUMN, SEE SCHEDULE ON SHEET S603				
[]	INDICATES NON-STRUCTURAL WALL ABOVE (NOT ALL ARE SHOWN)		INDICATES METAL ROOF DECK. SEE GENERAL STRUCTURAL NOTES				
	DEPRESS FOUNDATION WALL AND POUR SLAB OVER. SEE DETAIL 10/S501						
	INDICATES STRUCTURAL WALL ABOVE.	_K (**/**)	INDICATES K-SERIES JOIST WITH ALLOWABLE TOTAL LOAD / ALLOWABLE LIVE (SNOW) LOAD				
CW-x	INDICATES CONCRETE FOUNDATION WALL TYPE, SEE SCHEDULE ON SHEET S601	R.D.	INDICATES ROOF DRAIN, SEE DETAIL 2/S511				
CW-x/MW-x	INDICATES MASONRY WALL (AND TYPE) OVER CONCRETE WALL (AND TYPE), SEE SCHEDULES ON SHEET(S) S601 AND S602	RTU	INDICATES ROOF MECHANICAL UNIT AND WEIGHT OF UNIT				
		(SRE)	INDICATES SEISMIC RESISTING ELEMENT, SEE ELEVATIONS AND DETAILS AND FOLLOW ADDITIONAL SPECIAL				
	INDICATES MASONRY WALL TYPE, SEE SCHEDULE ON SHEET S602		INSPECTIONS.				
FCx.x	INDICATES CONTINUOUS FOOTING. SEE SCHEDULE ON SHEET S601	─ _B#_►	TAB CONNECTION. ARROWS INDICATE DIRECTION OF CONNECTION, SEE SCHEDULES ON SHEET(S) S603				
FSx.x	INDICATES SPOT FOOTING. SEE SCHEDULE ON SHEET S601	(HSS)	INDICATES HSS5x5 BLOCKING BETWEEN JOISTS, SEE DETAILS 1/S512 AND 13/S511				

STRUCTURAL SHEET LIST				
Sheet Number	Sheet Name	Current Revision		
S001	GENERAL STRUCTURAL NOTES			
S002	GENERAL STRUCTURAL NOTES			
S003	SPECIAL INSPECTION			
S010	LEGENDS AND ABBREVIATIONS			
S101	SHOP ADDITON FOOTING AND FOUNDATION PLAN			
S102	WRESTLING ADDITION FOOTING AND FOUNDATION PLAN			
S111	SHOP ADDITION ROOF FRAMING PLAN			
S112	WRESTLING ADDITION ROOF FRAMING PLAN			
S501	DETAILS			
S502	DETAILS			
S511	DETAILS			
S512	DETAILS			
S601	SCHEDULES			
S602	SCHEDULES			
S603	SCHEDULES			

6

LEGENDS AND ABBREVIATIONS

S010

8'-0" 16'-0"

4'-0"

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

SEE S010 FOR LEGENDS AND SYMBOLS

FOOTING AND FOUNDATION PLAN NOT

- COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. 2. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS,
- SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.
 ALL SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS (UNO).
 SEE DETAILS 1/S501 AND 2/S501 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.
- 6. SEE DETAIL 4/S501 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN CONCRETE SLAB ON GRADE. 7. SEE DETAIL 5/S501 FOR SLAB REINFORCING WHERE CONTROL JOINTS ARE DISCONTINUOUS.
- 8. SEE DETAIL 6/S501 FOR ADDITIONAL REINFORCING AT MISCELLANEOUS OPENINGS IN MASONRY WALLS. 9. SEE DETAIL 7/S501 FOR CONDITION AT RECESSES IN MASONRY WALLS. 10. SEE DETAIL 8/S501 FOR TYPICAL CONTROL JOINTS IN MASONRY WALLS.
- 11. SEE DETAIL 9/S501 FOR TERMINATION OF HORIZONTAL REINFORCING IN MASONRY WALLS. 12. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.
- 13. WHERE NOTED, ELEVATION OF BOTTOM OF NEW FOOTING SHALL MATCH ELEVATION OF BOTTOM OF EXISTING FOOTING. CONTRACTOR SHALL FIELD VERIFY AND STEP FOOTINGS AS NEEDED PER 14/S501. 14. AT EXISTING SEWER LINE, STEP FOOTING AS NEEDED PER DETAIL 14/S501 TO HAVE ENTIRE PIPE PASS THROUGH THE FOUNDATION WALL ABOVE THE TOP OF FOOTING ELEVATION. PROVIDE STEEL SLEEVE AROUND PIPE FULL WIDTH OF FOUNDATION WALL. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF EXISTING PIPE.

NORTH

TES

2

3

NORTH

5

SEE S010 FOR LEGENDS AND SYMBOLS

	FOOTING AND FOUNDATION PLAN NOT
1.	COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WIT
	ARCHITECTURAL AND MECHANICAL DRAWINGS.
2.	SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS
	ETC

- ETC
- SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.
 ALL SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS (UNO).
 SEE DETAILS 1/S501 AND 2/S501 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.
- 6. SEE DETAIL 4/S501 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN CONCRETE SLAB ON GRADE. 7. SEE DETAIL 5/S501 FOR SLAB REINFORCING WHERE CONTROL JOINTS ARE DISCONTINUOUS. 8. SEE DETAIL 6/S501 FOR ADDITIONAL REINFORCING AT MISCELLANEOUS OPENINGS IN MASONRY WALLS.
- 9. SEE DETAIL 7/S501 FOR CONDITION AT RECESSES IN MASONRY WALLS. 10. SEE DETAIL 8/S501 FOR TYPICAL CONTROL JOINTS IN MASONRY WALLS.
- 11. SEE DETAIL 9/S501 FOR TERMINATION OF HORIZONTAL REINFORCING IN MASONRY WALLS. 12. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.

ELEVATION OF EXISTING PIPE.

13. WHERE NOTED, ELEVATION OF BOTTOM OF NEW FOOTING SHALL MATCH ELEVATION OF BOTTOM OF EXISTING FOOTING. CONTRACTOR SHALL FIELD VERIFY AND STEP FOOTINGS AS NEEDED PER 14/S501. 14. AT EXISTING SEWER LINE, STEP FOOTING AS NEEDED PER DETAIL 14/S501 TO HAVE ENTIRE PIPE PASS THROUGH THE FOUNDATION WALL ABOVE THE TOP OF FOOTING ELEVATION. PROVIDE STEEL SLEEVE AROUND PIPE FULL WIDTH OF FOUNDATION WALL. CONTRACTOR SHALL FIELD VERIFY LOCATION AND

TES

/ITH RS, SIDEWALKS,

A 1

2

16'-0"

4'-0"

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

8'-0"

SEE S010 FOR LEGENDS AND SYMBOLS

ROOF FRAMING PLAN NOTES

 VERIFY ALL ROOF OPENINGS FOR MECHANICAL SHAFTS, DRAINS, ETC. WITH ARC MECHANICAL DRAWINGS. JOIST SUPPLIER SHALL DESIGN ALL ROOF JOIST BEARING ENDS AT MASONRY W (ALLOWABLE) AXIAL LOAD THROUGH JOIST BEARING ENDS (AT MASONRY W (ALLOWABLE) AXIAL LOAD THROUGH JOIST BEARING ENDS (UNO). ALL JOISTS SHALL HAVE 5" DEEP BEARING ENDS (UNO). ALL ROOF OPENINGS GREATER THAN, OR EQUAL TO, 12" x 12" SHALL BE FRAMEL 1/SS11 AND 2/SS11. FOR OPENINGS WHICH CUT LESS THAN TWO DECK FLUTES, I SEE DETAIL 4/SS11 WHEN CONCENTRATED LOADS ARE LOCATED MORE THAN 6" GIRDER PANEL POINT. SEE DETAIL 5/S511 WHEN MECHANICAL UNITS ARE HUNG BELOW JOISTS. VERIFY SIZE, WEIGHT, AND LOCATION OF ALL ROOF TOP MECHANICAL UNITS WIT MECHANICAL DRAWINGS. SEE DETAIL 6/S511 FOR STEEL FRAMES AT ALL ROOF 1 COORDINATE OPENINGS WITH MECHANICAL, ELECTRICAL, AND GENERAL CONTF LOCATE MISCELLANEOUS MECHANICAL OPENINGS BETWEEN JOISTS, <u>NOT</u> UNDE OPEN WEB STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED BY THE MAN THE MECHANICAL AND LATERAL LOADS SHOWN ON THE ROOF FRAMING PLANS UNIFORM AND POINT LOADS SHOWN. JOIST BRIDGING SHOWN ON PLANS IS FOR REPRESENTATION ONLY; ACTUAL SIZ LOCATION WILL BE DETERMINED BY THE JOIST SUPPLIER PER 'SJI' REQUIREMEN BRIDGING ANCHORS NEED TO BE IN PLACE BEFORE APPLYING ANY LOADS. WHE MECHANICAL UNITS/DUCTS INTERRUPT HORIZONTAL BRIDGING, PROVIDE CROS SPACES ON EACH SIDE OF THE OPENING. WHERE DIAGONAL BRIDGING CONFLIC DUCTS, REMOVE DIAGONAL BRIDGING AND REPLACE WITH HORIZONTAL BRIDGI PLACE. JOIST DESIGNER SHALL DESIGN JOISTS AND SUPPLY ADDITIONAL BRIDGING AS I TO WIND. ASSUME: 0.6DL = 12psf	
 JOIST SUPPLIER SHALL DESIGN ALL ROOF JOIST BEARING ENDS AT MASONRY W (ALLOWABLE) AXIAL LOAD THROUGH JOIST BEARING SHOE. ALL JOISTS SHALL HAVE 5" DEEP BEARING ENDS (UNO). ALL ROOF OPENINGS GREATER THAN, OR EQUAL TO, 12" x 12" SHALL BE FRAMED 1/S511 AND 2/S511. FOR OPENINGS WHICH CUT LESS THAN TWO DECK FLUTES, i SEE DETAIL 4/S511 WHEN CONCENTRATED LOADS ARE LOCATED MORE THAN 6" GIRDER PANEL POINT. SEE DETAIL 5/S511 WHEN MECHANICAL UNITS ARE HUNG BELOW JOISTS. VERIFY SIZE, WEIGHT, AND LOCATION OF ALL ROOF TOP MECHANICAL UNITS WIT MECHANICAL DRAWINGS. SEE DETAIL 6/S511 FOR STEEL FRAMES AT ALL ROOF 1 COORDINATE OPENINGS WITH MECHANICAL, ELECTRICAL, AND GENERAL CONTF 8. LOCATE MISCELLANEOUS MECHANICAL OPENINGS BETWEEN JOISTS, <u>NOT</u> UNDE 9. OPEN WEB STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED BY THE MAN THE MECHANICAL AND LATERAL LOADS SHOWN ON THE ROOF FRAMING PLANS UNIFORM AND POINT LOADS SHOWN. JOIST BRIDGING SHOWN ON PLANS IS FOR REPRESENTATION ONLY; ACTUAL SIZ LOCATION WILL BE DETERMINED BY THE JOIST SUPPLIER PER 'SJI' REQUIREMEN BRIDGING ANCHORS NEED TO BE IN PLACE BEFORE APPLYING ANY LOADS. WHE MECHANICAL UNITS/DUCTS INTERRUPT HORIZONTAL BRIDGING, PROVIDE CROS SPACES ON EACH SIDE OF THE OPENING. WHERE DIAGONAL BRIDGING CONFLIC DUCTS, REMOVE DIAGONAL BRIDGING AND REPLACE WITH HORIZONTAL BRIDGING PLACE. JOIST DESIGNER SHALL DESIGN JOISTS AND SUPPLY ADDITIONAL BRIDGING AS I TO WIND. ASSUME: 0.6DL = 12psf 0.6WL = 18psf (UPLIFT) 6ps NET UPLIFT (ASD) NO 1/3 STRESS INCREASE ALLOWED. SEE DETAIL 6/S501 FOR CONDITIONAL REINFORCING AT MISCELLANEOUS OPENING SEE DETAIL 6/S501 FOR CONDITIONAL REINFORCING AT MISCELLANEOUS OPENING SEE DETAIL 1/S501 FOR CONDITION AT RECESSES IN MASONRY WALLS.	HITECTURAL
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14. SEE DETAIL 8/S501 FOR TYPICAL CONTROL JOINTS IN MASONRY WALLS.	
15. SEE DETAIL 9/S501 FOR TERMINATION OF HORIZONTAL REINFORCING IN MASONI	RY WALLS.
16. SEE ARCHITECTURAL PLANS FOR DIMENSIONS TO ALL STEEL COLUMNS.	

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ITECTURAL AND LS TO TRANSFER 16000#

AS INDICATED IN DETAILS See detail 3/8511. From Joist or Joist

I ARCHITECTURAL AND P EQUIPMENT. ACTORS. NEATH THEM. FACTURER TO SUPPORT

QUANTITY, AND S. ALL BRIDGING AND E SKYLIGHT OR BRIDGING AT JOIST S WITH MECHANICAL AFTER ROOF DECK IS IN

QUIRED FOR UPLIFT DUE

IN MASONRY WALLS.



SEE S010 FOR LEGENDS AND SYMBOLS

ROOF FRAMING PLAN NOTES 1. VERIFY ALL ROOF OPENINGS FOR MECHANICAL SHAFTS, DRAINS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. JOIST SUPPLIER SHALL DESIGN ALL ROOF JOIST BEARING ENDS AT MASONRY WALLS TO TRANSFER 16000# (ALLOWABLE) AXIAL LOAD THROUGH JOIST BEARING SHOE. 3. ÀLL JOISTS SHALL HAVE 5" DEEP BEARING ENDS (UNO). 4. ALL ROOF OPENINGS GREATER THAN, OR EQUAL TO, 12" x 12" SHALL BE FRAMED AS INDICATED IN DETAILS 1/S511 AND 2/S511. FOR OPENINGS WHICH CUT LESS THAN TWO DECK FLUTES, SEE DETAIL 3/S511. 5. SEE DETAIL 4/S511 WHEN CONCENTRATED LOADS ARE LOCATED MORE THAN 6" FROM JOIST OR JOIST GIRDER PANEL POINT. 6. SEE DETAIL 5/S511 WHEN MECHANICAL UNITS ARE HUNG BELOW JOISTS. 7. VERIFY SIZE, WEIGHT, AND LOCATION OF ALL ROOF TOP MECHANICAL UNITS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. SEE DETAIL 6/S511 FOR STEEL FRAMES AT ALL ROOF TOP EQUIPMENT. COORDINATE OPENINGS WITH MECHANICAL, ELECTRICAL, AND GENERAL CONTRACTORS. 8. LOCATE MISCELLANEOUS MECHANICAL OPENINGS BETWEEN JOISTS, NOT UNDERNEATH THEM. 9. OPEN WEB STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT THE MECHANICAL AND LATERAL LOADS SHOWN ON THE ROOF FRAMING PLANS IN ADDITION TO THE UNIFORM AND POINT LOADS SHOWN. 10. JOIST BRIDGING SHOWN ON PLANS IS FOR REPRESENTATION ONLY; ACTUAL SIZE, QUANTITY, AND LOCATION WILL BE DETERMINED BY THE JOIST SUPPLIER PER 'SJI' REQUIREMENTS. ALL BRIDGING AND BRIDGING ANCHORS NEED TO BE IN PLACE BEFORE APPLYING ANY LOADS. WHERE SKYLIGHT OR MECHANICAL UNITS/DUCTS INTERRUPT HORIZONTAL BRIDGING, PROVIDE CROSS BRIDGING AT JOIST SPACES ON EACH SIDE OF THE OPENING. WHERE DIAGONAL BRIDGING CONFLICTS WITH MECHANICAL DUCTS, REMOVE DIAGONAL BRIDGING AND REPLACE WITH HORIZONTAL BRIDGING AFTER ROOF DECK IS IN PLACE. 11. JOIST DESIGNER SHALL DESIGN JOISTS AND SUPPLY ADDITIONAL BRIDGING AS REQUIRED FOR UPLIFT DUE TO WIND. ASSUME: • 0.6DL = 12psf <u>0.6WL = 18psf (UPLIFT)</u> <u>6psf NET UPLIFT (ASD)</u> NO 1/3 STRESS INCREASE ALLOWED. 12. SEE DETAIL 6/S501 FOR ADDITIONAL REINFORCING AT MISCELLANEOUS OPENINGS IN MASONRY WALLS. 13. SEE DETAIL 7/S501 FOR CONDITION AT RECESSES IN MASONRY WALLS. 14. SEE DETAIL 8/S501 FOR TYPICAL CONTROL JOINTS IN MASONRY WALLS. 15. SEE DETAIL 9/S501 FOR TERMINATION OF HORIZONTAL REINFORCING IN MASONRY WALLS.

16. SEE ARCHITECTURAL PLANS FOR DIMENSIONS TO ALL STEEL COLUMNS.





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NORTH



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LOCATIONS REQUIRING ADDITIONAL SLAB REINFORCING [PLAN VIEW]





3

4

EDGE EACH SIDE OF JOINT WITH 1/8" RADIUS





















NO SCALE







PROJECT FOR
THE SOUTH SANPETE SCHOOL
DISTRICT BOARD OF EDUCATION
39 SOUTH MAIN MANTI, UTAH 84642

DETAILS

S501

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<u>B</u>

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NO SCALE







DETAILS















- STEEL JOIST, SEE PLAN

NO SCALE

EMBED PL 3/8"x8"x0'-4" WITH (2) 3/4"DIA x 5" HSA. SPACE AT 32" O.C. ((2) MIN BETWEEN JOISTS)

DECK BRG L5x3x1/4 (LLH) - x CONT, PARALLEL TO DECK FLUTES

> 1/8, 2 AT K-JOIST 1/4. 3 AT LH-JOIS

/ METAL ROOF DECK

- STEEL JOIST, SEE PLAN BEARING PLATE, SEE DETAIL 7/S511

MASONRY WALL, SEE PLAN AND SCHEDULE

NO SCALE

EMBED PL 3/8"x8"x0'-4" - WITH (2) 3/4"DIA x 5" HSA. SPACE AT 32" O.C.

DECK BRG L3x3x1/4 — x CONT, PERPENDICULAR TO DECK FLUTES

/ METAL ROOF DECK



BEARING PLATE, SEE DETAIL 7/S511 (3) CONT BARS AT BEAM

- BRG TO MATCH HORIZ WALL REINFORCING

NO SCALE



naylor wentworth lund

architects





DETAILS S511





6 ROOF DETAIL AT MASONRY WALL WITH DRAG BEAM

NO SCALE











VO SCALE

NO SCALE



 \frown SCHO LING ADE HIGH WRESTL De De F MAN⁻ SHOP drawing ISS Issue date NWL projec No. 9072017-2203 TRAVIS ROSS BRACKUS 12-9-24 △ DATE REVISION

PROJECT FOR THE SOUTH SANPETE SCHO DISTRICT BOARD OF EDUCA 39 SOUTH MAIN MANTI, UTAH 84642

details **S512**

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			CONCRET	ERE	CTAN	IGULAR	FOOTIN	IG SC	CHED	ULE (F1	ΓR)
				R	EINFOR	CING CROS	SWISE	RE	INFORC	ING LENGT	HWISE
MARK	WIDTH	Length	DEPTH	No.	SIZE	LENGTH	SPACING	No.	SIZE	LENGTH	SPACIN
FTR5.0x7.0	5' - 0"	7' - 0"	SEE DETAIL 12/S501	6	#5	4'-6"	EQ	5	#5	6'-6"	EQ

			CONCRI	ETE (CONT	INUOUS	S FOOTI	NG S	CHE	DULE (F	C)
				R	EINFOR	CING CROS	SWISE	RE	INFORC	ING LENGT	HWISE
MARK	WIDTH	LENGTH	DEPTH	No.	SIZE	LENGTH	SPACING	No.	SIZE	LENGTH	SPACING
FC2.0	2' - 0"	CONT	12"	-	#4	1' - 6"	48"	3	#4	CONT	EQ
FC3.0	3' - 0"	CONT	12"	-	#5	2' - 6"	14"	3	#5	CONT	EQ
FC4.5A	4' - 6"	CONT	18"	-	#6	4' - 0"	14"	4	#6	CONT	EQ

			CON	CR	ETE	SPOT F	OOTING	SC⊦	IEDL	ILE (FS)		
				F	REINFO	RCING CRC	SSWISE	RE	NFOR	CING LENG	THWISE	
MARK	WIDTH	Length	DEPTH	No.	SIZE	LENGTH	SPACING	No.	SIZE	LENGTH	SPACING	
FS3.0	3' - 0"	3' - 0"	SEE DETAIL 11/S501 AND 12/S501	3	#5	2' - 6"	EQ	3	#5	2' - 6"	EQ	R
FS4.0	4' - 0"	4' - 0"	SEE DETAIL 11/S501 AND 12/S501	4	#5	3' - 6"	EQ	4	#5	3' - 6"	EQ	R
FS6.0	6' - 0"	6' - 0"	SEE DETAIL 11/S501 AND 12/S501	6	#5	5' - 6"	EQ	6	#5	5' - 6"	EQ	R

CONCRETE FOOTING NOTES: 1. PLACE ALL FOOTING REINFORCING IN THE BOTTOM OF THE FOOTING WITH 3" CLEAR CONCRETE COVER (UNO). 2. TOP REINFORCING, WHERE OCCURS, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER. 3. IF FOOTINGS ARE EARTH-FORMED, FOOTINGS SHALL BE 6" LONGER AND WIDER THAN SCHEDULED. 4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS. 5. SOME SCHEDULED FOOTINGS MAY NOT BE USED, SEE FOOTING AND FOUNDATION PLAN FOR FOOTING MARKS.

CONCRETE FOOTING SCHEDULE NOTES (C3000-S3500)

	CONCR	ETE RE	INFORC	CING E	BAR LAF	P SPLIC	E SCHEDU	JLE	
-									

f'c = 3000psi & f'c = 3500 psi		500 psi	f'c = 4	000psi 8	k f'c = 4	500 psi		f'c = 5	000psi			f'c = 6)00psi			
	REG	ULAR	T	OP	REG	ULAR	т	OP	REG	ULAR	ТС	OP	REG	JLAR	TC)P
BAR SIZE	CL	ASS	CL	ASS	CL/	ASS	CLA	ASS	CLA	ASS	CLA	ASS	CLA	ASS	CLA	ASS
	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В
#3	17"	22"	22"	28"	15"	19"	19"	24"	13"	17"	17"	22"	12"	16"	15"	20"
#4	22"	29"	29"	37"	19"	25"	25"	32"	17"	22"	22"	29"	16"	20"	20"	27"
#5	28"	36"	36"	47"	24"	31"	31"	40"	22"	28"	28"	36"	20"	26"	26"	33"
#6	33"	43"	43"	56"	29"	37"	37"	48"	26"	33"	33"	43"	24"	31"	31"	40"
#7	48"	63"	63"	81"	42"	54"	54"	70"	37"	49"	49"	63"	34"	44"	44"	58"
#8	55"	72"	72"	93"	48"	62"	62"	80"	43"	56"	55"	72"	39"	51"	51"	66"
#9	62"	81"	81"	105"	54"	70"	70"	91"	48"	63"	63"	81"	44"	57"	57"	74"
#10	70"	91"	91"	118"	61"	79"	79"	102"	54"	70"	70"	91"	50"	64"	64"	83"
#11	78"	101"	101"	131"	67"	87"	87"	113"	60"	78"	78"	101"	55"	71"	71"	93"

TABULATED VALUES ARE FOR CASE 1 REINFORCEMENT, WHERE THE REQUIREMENTS OF TABLE BELOW ARE MET. WHERE THESE CONDITIONS ARE NOT MET, MULTIPLY THE LAP LENGTHS (Ist) BY 1.5.

REQUIF								
BAR CLEAR SPACING	CLEAR COVER	STIRRUPS OR TIES	ld					
>=db	>=db	>=CODE MINIMUM THROUGHOUT Ist	1					
>=2db	>=db	NO REQUIREMENT	1					

db = BAR DIAMETER lst = LAP SPLICE LENGTH ASS A SPLICE LENGTH

EAR VER	STIRRUPS OR TIES	Id = DEVELOPMENT LENGTH = CLAS
=db	>=CODE MINIMUM THROUGHOUT Ist	
=db	NO REQUIREMENT	

- CONCRETE REINFORCING BAR LAP SPLICE NOTES: 1. THIS SCHEDULE SHALL BE USED FOR ALL BAR SPLICES IN CONCRETE, UNLESS NOTED OTHERWISE. 2. CLASS 'A' SPLICES MAY BE USED ONLY AT SLABS ON GRADE OR WHERE APPROVED BY EOR IN CASES WHERE 50% OR LESS OF THE BARS ARE SPLICED WITHIN THE LAP SPLICE LENGTH. 3. CLASS 'B' SPLICES SHALL BE USED FOR ALL SPLICES UNLESS NOTED OTHERWISE. 4. TIES AND STIRRUPS SHALL NOT BE SPLICED.
- 5. DO NOT SPLICE VERTICAL BARS IN RETAINING WALLS UNLESS SPECIFICALLY SHOWN. 6. THE VALUES TABULATED IN SCHEDULE ARE FOR GRADE 60 REINFORCING BARS. FOR GRADE 80, MULTIPLY LAP LENGTHS BY 1.53.
- 7. THE VALUES TABULATED IN SCHEDULE ARE MINIMUM REQUIREMENTS. LONGER LENGTHS MAY BE USED FOR CONSTRUCTIBILITY. 8. LAP SPLICES ARE NOT ALLOWED FOR BARS GREATER THAN #11 BAR. THE LENGTHS IN SCHEDULE ARE FOR TENSION DEVELOPMENT LENGTH.
- 9. TOP BARS ARE CLASSIFIED AS HORIZONTAL BARS WHERE 12", OR MORE, OF FRESH CONCRETE IS CAST BELOW THE REINFORCING BAR. 10. FOR EPOXY-COATED OR ZINC AND EPOXY DUAL-COATED BARS WITH CLEAR COVER < 3db OR CLEAR SPACING <6db , MULTIPLY LAP LENGTHS BY 1.5. FOR ALL OTHER CASES MULTIPLY BY 1.2
- 11. FOR LIGHT WEIGHT CONCRETE, MULTIPLY LAP LENGTHS BY 1.33. 12. SPLICES FOR BUNDLED BARS:
- A. FOR BUNDLED BARS OF THREE OR LESS, LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.2. B. FOR BUNDLED BARS OF FOUR OR MORE, LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.33. C. INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP.
- D. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED. 13. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

2 CONCRETE REINFORCING - BAR LAP SPLICE SCHEDULE

			CONCRETE	WALL SCHEDU	LES	
		REIN	IFORCING			
MARK TI	HICKNESS	VERTICAL	HORIZONTAL	TOP AND BOTTOM	WALL TYPE	
CW-8A	8"	#4 AT 32" O.C.	#4 AT 12" O.C.	(1) #4	A	STAGGER
CW-14A	14"	#5 AT 16" O.C. O.F. AND #5 AT 32 " O.C. I.F.	#5 AT 16" O.C. E.F.	(2) #5	С	STAGGER

CONCRETE FOUNDATION WALL NOTES: 1. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

WALLS NOT DESIGNATED IN PLAN								
THICKNESS	REINFORCING							
THICKNESS	VERTICAL	HORIZONTAL						

6"	#4 BARS AT 18" O.C.	#4 BARS AT 16" O.C.
8"	#4 BARS AT 18" O.C.	#4 BARS AT 12" O.C.
10"	#4 BARS AT 16" O.C.	#5 BARS AT 15" O.C.
12"	#4 BARS AT 18" O.C. E.F.	#4 BARS AT 16" O.C. E.F.









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	REINFORCE TOP AND BOTTOM
	COMMENTS
	COIVIIVIEIN 13
_	REINFORCE TOP AND BOTTOM
	-
	COMMENTS
El	NFORCE TOP AND BOTTOM
=1	NFORCE TOP AND BOTTOM
-1	

STANDARD ADHESIVE EMBEDMENT SCHEDULE **REBAR DOWEL** MIN EMBEDMENT INTO CONCRETE OR (THREADED ROD SIZE) **GROUTED MASONRY** #3 (3/8") 3 3/8" #4 (1/2") 4 1/2" #5 (5/8") 5 5/8"

6 3/4"



STANDARD ADHESIVE EMBEDMENT NOTES: 1. SPECIFIC EMBEDMENTS, NOTES AND DETAILS IN DRAWINGS SHALL GOVERN OVER THIS SCHEDULE. 2. HOLE DIAMETER SHALL BE DOWEL/ROD DIAMETER PLUS 1/8". FOLLOW MANUFACTURER'S INSTRUCTIONS FOR

HOLE PREPARATION. 3. PROVIDE A 3" MINIMUM EDGE DISTANCE TO CENTER OF HOLE.

4. CONTACT STRUCTURAL ENGINEER IF MINIMUM EMBEDMENTS INDICATED ABOVE ARE NOT ACHIEVABLE. 5. SEE "POST INSTALLED ANCHORS" SECTION OF GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

4 STANDARD ADHESIVE EMBEDMENT SCHEDULE

#6 (3/4")

COMMENTS R VERTICAL REINFORCING WITH MASONRY WALL DOWELS R VERTICAL REINFORCING WITH MASONRY WALL DOWELS

ABBREVIATIONS: EACH FACE INSIDE FACE I.F. OUTSIDE FACE O.F.

USE "STANDARD ADHESIVE" PER "POST INSTALLED - ANCHORS" SECTION OF THE GENERAL STRUCTURAL

REBAR DOWEL/THREADED ROD, SEE DETAILS









SCHEDULES

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			SOLI					1)					COM	MENTO		
MW-8A	8" S	SEE ARCH	Yes	<u>) </u>	#5 AT 32" O.C	. <u>.</u>	#4 AT 16" O.	AL C.	SEE NOTE 1	1			COIVII	VIENIS		
l				I		I										
[MAS		ALLSN		ESIGNATE		ρί ΔΝ					RE	NFORCING			
													2 1/2"			
													,			
	THICKNESS	VERT	ICAL	(NOT	SOLID GROUT	ED) (S	OLID GROUT	ED)					2 1/2"			\Box
-	6"	#5 AT 32	2" O.C.		#4 AT 48" O.C.		#4 AT 24" O.C.	,				HO RE	RIZONTAL WA NFORCING	LL/	, ,	
	8" 40"	#5 AT 32	2" 0.C.		#5 AT 48" O.C.		#4 AT 24" O.C.							DOUBLE VE	RTICAL LAYER WA	LL
	10	#5 AT 24 #5 AT 24	4" O.C.	+	(2) #5 AT 48" O.C.		(2) #4 AT 24" O.C.							REINFORCI	NG AT 12" MASONF	<u> </u>
	 SPACING OF MA REINFORCING T COORDINATE W DO NOT SOLID G SOLID GROUT A SUNGLE LAYER C VERTICAL REINF VERTICAL REINF VERTICAL WALL PROVIDE TWO V HORIZONTAL W, REINFORCING C SEE DETAIL 9/SE NORZETE AL 	SONRY WALL REINFO ABLE BELOW FOR LO ALL FINISHES, MATEF ;ROUT WALLS UNLES UL MASONRY COURS)F VERTICAL REINFO ORCING SHALL EXTE REINFORCING SHAL (ERTICAL BARS (MIN) ALL REINFORCING SF ALL REINFORCING SF OCCUR IN THE SAME (COLUBATION WALL REINFORCING SF) (COLUBATION WALL REINFORCING SF)	DRCING SHALL N DCATIONS WHER RIALS, COURSING SS REQUIRED BY SES BELOW GRAI RCING SHALL BE END INTO FOOTII L DOWEL 3'-0" M AT ALL CORNEF HALL BE PLACED HALL CONTINUE COURSE, USE TH RIZONTAL REINF	IOT EXCEED 1 E TIGHTER SI G, ETC. WITH 'SCHEDULE, I DE. E CENTERED I NGS AND TER INIMUM INTO RS AND END C) BETWEEN DI THROUGH M/ HE LARGER R ORCING TER!	TYPICAL SCHEDULED R PACING IS REQUIRED. ARCHITECTURAL DRAV NOTES, OR DETAILS. IN WALL (UNO). RMINATE WITH STANDA THE FOUNDATION WAL DF WALLS. OUBLE LAYER OF VERT ASONRY LINTELS. WHE EINFORCING. MINATES AT EDGE OF (CONCRETE WALL BEIN	EINFORCING. S NINGS. RD HOOK. FOR LL (UNO). FICAL MASONRY ERE BOTH HORIZ DEPENINGS.	EE ELEVATION AND M CONCRETE FOUNDA REINFORCING, WHEI ZONTAL WALL REINFO	IASONRY I TION WALI RE OCCUF INCING AN	WALL SECTION LS 4'-0" OR TALLEF RS. ID LINTEL	2,		VEI RE HO RE	RTICAL WALL NFORCING 2017 2017 2017 2017 2017 2017 2017 2017		RTICAL LAYER WA	
1	11. IN CONCRETE F 12. SEE GENERAL S	JUNDATION WALL BE	ELOW, ALTERNAT	TE VERTICAL L REQUIREME	CONCRETE WALL REIN ENTS.	IFORCING WITH	I VERTICAL MASONRY	REINFOR	CING.							
)RIZONTAL REIN	FORCING AT														TYPICAL MA	SONRY V
CK/FLOOR BEA	RING, SEE DETAILS									/	1				REINFORCI	IG PER S
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NC FOUNDATIC IERE OCCURS, AN AND SCHED NCRETE FOOTI	DN WALL, SEE ULE ING, SEE ULE		MARK	S ANC INDICAT OR LINT INDICAT REQUIR REINFOI	D SYMBOL IES SCHEDULED MASOI IEL REINFORCING IES ADDITIONAL REINF(IED PER MASONRY WAL RCING TABLE IES LENGTH OF WALLS	SLEGI NRY WALL, PIEF DRCING AS L SECTION	END	HEI 4' 6' 8'-	ASONR REINFC GHT OR LEI H OR L ≤ 4'-0" -0" < H OR L ≤ 6 -0" < H OR L ≤ 6 0" < H OR L ≤ 10 -0" < H OR L ≤ 10 -0" < H OR L ≤ 10	Y WA PRCIN NGTH 1'-0" 1'-0" 2'-0" 2'-0"	LL S NG T MAXIN	ECTI ABLE 10M SP 8" O.C. 16" O.C. 24" O.C. 32" O.C. 40" O.C	ON ACING		MASONRY F	C WITH E
NC FOUNDATIC IERE OCCURS, AN AND SCHED NCRETE FOOTI	DN WALL, SEE ULE ING, SEE ULE		MARK	S ANC INDICAT INDICAT REQUIR REINFOI INDICAT	D SYMBOL SSCHEDULED MASO TEL REINFORCING TES ADDITIONAL REINFO TES ADDITIONAL REINFO TEN ADDITIONAL REINFO TES ADDITIONAL REINFO T	SLEGI NRY WALL, PIEF DRCING AS L SECTION	END 3,	HEI 4 6 8 10	ASONR REINFC GHT OR LEI HOR L ≤ 4'-0" -0" < H OR L ≤ 4'-0" -0" < H OR L ≤ 1 -0" < H OR L ≤ 1 -0" < H OR L ≤ 1 H OR L > 12'-0	Y WA PRCIN NGTH 1'-0" 0'-0" 2'-0" "	LL S NG T MAXIN	ECTI ABLE 10M SP 8" O.C. 16" O.C. 24" O.C. 32" O.C. 40" O.C. 40" O.C.	ON ACING		MASONRY	IG WITH A
INC FOUNDATIC HERE OCCURS, AN AND SCHED NCRETE FOOTI AN AND SCHED	DN WALL, SEE ULE ING, SEE ULE		MARK:	S ANC INDICAT INDICAT REQUIR REINFOI INDICAT	D SYMBOL SYMBOL IES SCHEDULED MASOI IES ADDITIONAL REINFORCING IES ADDITIONAL REIN	SLEGI NRY WALL, PIEF ORCING AS LL SECTION SECTION	END R,	Мл НЕІ 4' 6' 8'- 10' 1. ADDI МАТС SPAC 2. WHE HOR 3. WHE	ASONR REINFC GHT OR LEI H OR L \leq 4'-0" -0" $<$ H OR L \leq 4'-0" -0" $<$ H OR L \leq 10 -0" $<$ H OR L \leq 11 -0" $<$ H OR L \leq 11 H OR L $>$ 12'-0 TIONAL VERTICAL CH BAR SIZE OF SC ZING INDICATED IN RE 8" SPACING IS ZONTAL REINFOR RE SPACING OF S	AND HORIZ CHEDULED CHEDULED	ONTAL REIN WALL REIN WALL REIN	ECTI ABLE NUM SP/ 8" O.C. 16" O.C. 24" O.C. 32" O.C. 40" O.C. 48" O.C. 1FORCING A VBE USED	ON ACING SHALL FOR		MASONRY F	E INFOR

MASONRY LINTEL SCHEDULE NEW							
	LINTEL	REINFOR	RCING				
MARK	DEPTH	HORIZONTAL	STIRRUPS	TYPE	COMMENTS		
ML-16A	16"	(1) #5 x CONT TOP AND BOTTOM	NONE	A			
ML-24A	24"	(1) #6 x CONT TOP AND BOTTOM	#4 AT 8" O.C.	A			
ML-32A	32"	(1) #6 x CONT TOP AND BOTTOM	#4 AT 8" O.C.	A			

MASONRY LINTEL NOTES: 1. LINTEL WIDTH AND MATERIAL TYPE SHALL BE THE SAME AS THE WALL IN WHICH THE LINTEL IS CONSTRUCTED. 2. GROUT MASONRY LINTELS MONOLITHICALLY WITH THE SUPPORT WALL OR PIER AT EACH END.

3. MASONRY LINTEL ML-8A, SHALL BE USED OVER OPENINGS IN MASONRY WALLS WHEN A SPECIFIC MASONRY LINTEL IS NOT OTHERWISE SPECIFIED. WHEN A LINTEL IS SPECIFIED ON THE PLANS, THE MAXIMUM SPAN AS NOTED IN THIS SCHEDULE SHALL NOT APPLY. CONSULT THE STRUCTURAL ENGINEER FOR LINTELS NOT SPECIFIED ON THE PLANS WHICH HAVE A SPAN GREATERTHAN 3'-4".

4. MASONRY LINTEL ML-8A SHALL NOT BE LOCATED DIRECTLY BELOW FLOOR OR ROOF BEAMS OR GIRDERS UNLESS NOTED OTHERWISE ON THE PLANS. JOISTS SHALL NOT BEAR ON ANY LINTEL LESS THAN 16" DEEP. CONSULT THE STRUCTURAL ENGINEER FOR LINTELS NOT SHOWN ON THE PLANS WHICH ARE LOCATED DIRECTLY BELOW FLOOR OR ROOF BEAMS OR GIRDERS. 5. EXTEND ALL HORIZONTAL REINFORCING 48 BAR DIAMETERS MINIMUM BEYOND THE EDGE OF ALL OPENINGS. IF HORIZONTAL REINFORCING CANNOT EXTEND 48 BAR DIAMETERS BEYOND EDGE OF OPENING, PROVIDE 90° STANDARD HOOK.

6. SPLICE TOP BARS AT MIDSPAN OF LINTEL ONLY AND BOTTOM BARS OVER SUPPORTS ONLY.
 7. HORIZONTAL WALL REINFORCING SHALL CONTINUE THROUGH MASONRY LINTELS. WHERE BOTH HORIZONTAL WALL REINFORCING AND LINTEL REINFORCING OCCUR IN THE SAME COURSE, USE THE

LARGER REINFORCING. 8. DOWEL VERTICAL REINFORCING OF WALL ABOVE LINTEL INTO THE FULL DEPTH OF LINTEL OR 48 BAR DIAMETERS, WHICHEVER IS LESS.



9. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

2 MASONRY LINTEL SCHEDULE

	PIEF	R SIZE	VERTICAL		
MARK	'WT' x	L	REINFORCING	TYPE	COMMENT
MP-16A	'WT' x	16"	(2) #5	A	
MP-24A	'WT' x	24"	(3) #5	A	
MP-24B	'WT' x	24"	(6) #5	В	
MP-32A	'WT' x	32"	(4) #5	A	

2. VERTICAL REINFORCING AND TIES SHALL EXTEND FULL HEIGHT OF WALL (UNO). 3. VERTICAL MASONRY PIER REINFORCING SHALL EXTEND INTO THE FOOTING AND TERMINATE WITH A STANDARD 90° HOOK. FOR CONCRETE

FOUNDATION WALLS 4'-0" OR TALLER, VERTICAL PIER REINFORCING SHALL DOWEL 3'-0" MINIMUM INTO THE FOUNDATION WALL (UNO). 4. IN CONCRETE FOUNDATION WALLS, VERTICAL REINFORCING AT TYPE 'B' MASONRY PIERS SHALL BE TIED WITH #3 TIES AT TOP AND BOTTOM OF

- FOUNDATION WALL, SEE DETAILS. 5. HORIZONTAL REINFORCING OF ADJACENT WALLS SHALL RUN CONTINUOUS THROUGH MASONRY PIERS. 6. WHERE HORIZONTAL REINFORCING TERMINATES AT PIER, PROVIDE 180° HOOK, SEE SCHEMATICS BELOW.
- 7. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



IONAL HORIZONTAL ORCING PER TABLE

MASONRY PIER SCHEDULE

NDATION WALL, ALTERNATE L CONCRETE WALL RCING WITH VERTICAL RY REINFORCING

MASONRY REINFORCING LAP SPLICE SCHEDULE							
	8" MASONRY						
BAR SIZE	(1) BAR PER CELL	(2) BARS PER CELL					
#3	12"	12"					
#4	13"	21"					
#5	20"	35"					
#6	38"	SEE NOTE 1					
#7	52"	SEE NOTE 1					
#8	SEE NOTE 1	SEE NOTE 1					

NOTES: 1. WHERE INDICATED, USE MECHANICAL SPLICE COUPLER. SEE GSN FOR REQUIREMENTS. 2. WHERE VERTICAL BARS HAVE A SPECIFIED LAP SPLICE GREATER THAN THE HEIGHT OF THE GROUT POUR, USE MECHANICAL SPLICE COUPLER.

(4) MASONRY REINFORCING LAP SPLICE SCHEDULE (f'm=2000psi)



5 [1/S111] BMBED PLATE CONNECTION SCHEDULE FOR MASONRY WALLS 3/4" = 1'-0"

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PROJECT FOR
THE SOUTH SANPETE SCHOOL
DISTRICT BOARD OF EDUCATION
39 SOUTH MAIN MANTI, UTAH 84642

SCHEDULES

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STEEL COLUMN NOTES: 1. UNLESS NOTED OTHERWISE, ALL COLUMNS SHALL BE INSTALLED WITH (4) 3/4"DIA ANCHOR RODS WITH 3" MINIMUM HOOKS. PROJECT ANCHOR RODS 3" MINIMUM ABOVE THE TOP OF THE BASE PLATE. EMBEDMENT SHALL BE 9" MINIMUM. ALL RODS SHALL BE INSTALLED WITH HARDENED WASHERS BENEATH THE NUT. ANY BOLT HOLES LARGER THAN THE ROD DIAMETER PLUS 5/16" SHALL HAVE 5/16" PLATE WASHERS INSTALLED BENEATH THE HARDENED WASHERS. 2. ALL CAP PLATE BOLTS SHALL BE 3/4"DIA A325N BOLTS, TYPICAL UNLESS NOTED OTHERWISE.

3. ANCHOR RODS SHALL NOT BE WELDED (INCLUDING TACK WELDS). 4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



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2 STEEL COLUMN SCHEDULE

VENEER LINTEL SCHEDULE					
CLEAR OPENING	SIZE OF ANGLE				
UP TO 5'-0"	L3.1/2x3x1/4 (LLH)				
5'-1" TO 7'-0"	L3.1/2x3.1/2x1/4				
7'-1" TO 9'-0"	L5x3.1/2x1/4 (LLV)				
9'-1" TO 10'-0"	L5x3.1/2x5/16 (LLV)				
10'-1" TO 11'-0"	L5x3.1/2x3/8 (LLV)				
11'-1" TO 12'-0"	L6x4x3/8 (LLV)				
12'-1" AND OVER	REQUIRES SPECIAL ANALYSIS				

<u>NOTE:</u> LINTELS CARRY VENEER ONLY. WHERE FLOORS, ROOFS, OR CONCENTRATED LOADS OCCUR, FURTHER ANALYSIS IS NECESSARY. PROVIDE 1" OF BEARING AT EACH END FOR EACH FOOT OF SPAN. MINIMUM BEARING OF 6" EACH SIDE OF OPENING. USE THIS SCHEDULE UNLESS NOTED OTHERWISE. STEEL ANGLES SHALL BE GALVANIZED AT EXTERIOR CONDITIONS.

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(3 VENEER LINTEL SCHE	•



SCHEDULES

	PROJECT FOR	THE SOUTH SANPETE SCHOOL	DISTRICT BOARD OF EDUCATION	39 SOUTH MAIN MANTI, UTAH 84642		
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GENERAL DEMOLITION NOTE ALL WOODSHOP DUST COLLECTION DUCTWORK TO REMAIN AS-IS DURING CONSTRUCTION OF NEW WOOD SHOP AREA; DEMOLTION OCCURS AFTER BUILDING IS COMPLETE.

#>	REFERENCE NOTES

- 1 RELOCATE EXISTING DUST COLLECTION SYSTEM FOR TEMPORARY USE DURING CONSTRUCTION OF NEW WOOD SHOP. CONTRACTOR IS TO FIELD VERIFY EXACT LOCATION OF EXISTING DUST COLLECTION SYSTEM, AND MOVE TO NEW LOCATION AS SHOWN ON M1.1. CONTRACTOR RESPONSIBLE FOR COORDINATION OF ALL CONTROL AND POWER WIRING, SEISMIC BRACING OF DUST COLLECTOR AND ASSOCIATED DUCTWORK.
- 16" DIAMETER DUST COLLECTION MAIN EXHAUST DUCT TO BE 2 REMOVED FROM POINT ABOVE EXISTING ROOF PENETRATION JUST BEYOND ELBOW; PROVIDE ENOUGH EXISTING DUCTWORK TO REMAIN TO ALLOW INSTALLATION OF NEW EXTENSION OF TEMPORARY DUCTWORK FROM DUST COLLECTOR TO THIS POINT.
- 3 REMOVE EXISTING GAS FIRE UNIT HEATER, ASSOCIATED PIPING AND VALVING, POWER WIRING AND FLUE THRU ROOF. PATCH ROOF TO MATCH EXISTING. CONTRACTOR RESPONSIBLE FOR PATCHING ROOF. COORDINATE WITH OWNER FOR PREFERRED ROOFING CONTRACTOR.
- 4 EXISTING GAS FIRE UNIT HEATER TO REMAIN.
- 5 EXISTING PAINT BOOTH EXHAUST FAN AND ALL ASSOCIATED WIRING, CONTROL WIRING, DUCTWORK AND GRILLES TO BE REMOVED COMPLETE. CONTRACTOR RESPONSIBLE FOR PATCHING ROOF. COORDINATE WITH OWNER FOR PREFERRED ROOFING CONTRACTOR
- 6 REMOVE ALL ABANDONED UNDERGROUND PIPE.
- REMOVE EXISTING GAS LINE AND REPLACE; COORDINATE WITH 7 SHEET P1.1 FOR NEW GAS LINE REQUIREMENTS.
- 8 EXISTING WOODSHOP EQUIPMENT TO BE RELOCATED; SEE SHEET M4.1 FOR NEW LOCATIONS. COORDINATE WITH OWNER FOR TEMPORARY LOCATION FOR STORAGE OF EXISTING EQUIPMENT DURING CONSTRUCTION OF NEW WOODSHOP ADDITION PRIOR TO COMMENCEMENT OF WORK.
- 9 DEMO 6" FLOOR SWEEP AND ASSOCIATED DUCTWORK.
- 10 DEMO DUCTWORK COMPLETE.
- REMOVE EXISTING EXHAUST FAN AND CAP DUCT DROP BELOW ROOF; REMOVE EXISTING SUPPLY AIR GRILLE AND ASSOCIATED 11 DUCTWORK AND CAP WHERE SHOWN.
- 12 REMOVE ALL DUST COLLECTION DUCTWORK COMPLETE.
- REMOVE GAS LINE AT DROP; COORDINATE WITH NEW WORK. 13 REMOVE CONDENSATE LIFT PUMP ON WALL ADJACENT TO UNIT HEATER AND ALL ASSOCIATED CONDENSATE DRAIN LINES. 14
- CONDENSATE LIFT PUMP ON WALL ADJACENT TO UNIT HEATER AND ALL ASSOCIATED CONDENSATE DRAIN LINES TO REMAIN. PROTECT DURING DEMOLITION, AND REPLACE WITH LIKE IF 15 DAMAGED.











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0 4' 8' 16' SCALE: 1/8" = 1'-0"

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REFERENCE NOTES <#>

- 1 TEMPORARY DUST COLLECTION DUCTWORK TO RUN ABOVE ROOF. PROVIDE STRUCTURAL SUPPORTS. COORDINATE ROUTING WITH STRUCTURE AND ALL TRADES. (TYPICAL)
- 2 WALL MOUNTED HEATING THERMOSTAT. (TYPICAL)
- 3 MAU CONTROL PANEL.
- 4 RUN TIGHT AT STRUCTURE. 5 EXPLOSION PROOF EXHAUST FAN. SEE SHEET M4.1.
- 6 RELOCATED EXISTING TORIT UNIT; UNIT TO BE MOVED TO NEW LOCATION COMPLETE WITH EXTENDED DUCTWORK AND POWER WIRING BY ELECTRICAL. FIELD COORDINATE EXACT LOCATION PRIOR TO COMMENCEMENT OF WORK. UNIT TO BE OPERATIONAL DURING ENTIRE CONSTRUCTION OF NEW WOOD SHOP. CONTRACTOR TO COORDINATE WITH OWNER FOR PHASING OF REMOVAL OF EXISTING TORIT SYSTEM AFTER NEW SYSTEM INSTALLATION IS COMPLETE. CONTRACTOR RESPONSIBLE FOR REMOVAL AND DISPOSAL OF EXISTING SYSTEM AND TEMPORARY EXHAUST DUCT ROUTED UP TO ROOF. PATCH ROOF HOLE AFTER 16"Ø DUCT IS REMOVED. SEE SHEET M4.1 FOR ENLARGED PLANS.
- 7 CONTRACTOR TO SUPPLY NEW 16"Ø EXHAUST DUCT TO MATCH EXISTING FOR TEMPORARY OPERATION OF EXISTING DUST COLLECTION SYSTEM. CONTRACTOR RESPONSIBLE FOR REMOVAL AND DISPOSAL OF EXISTING SYSTEM AND TEMPORARY EXHAUST DUCT ROUTED UP TO ROOF. PATCH ROOF HOLE AFTER 16"Ø DUCT IS REMOVED. SEE SHEET M4.1
- FOR ENLARGED PLANS. 8 EXISTING DUST COLLECTION SYSTEM AND DUCTWORK TO REMAIN UNTIL AFTER BUILDING IS CONSTRUCTED.
- 9 EXISTING CONDENSATE PUMPS TO REMAIN.
- 10 CONBUSTION AIR AND EXHAUST FLUES UP THRU ROOF TO CONCENTRIC KIT. COORDINATE LOCATIONS WITH STRUCTURAL PRIOR TO COMMENCEMENT OF WORK.
- 11 EXISTING GAS FIRED UNIT HEATER TO REMAIN. 12 EF-3 OFF/ON SWITCH.
- 13 RELOCATED EXISTING PLASMA CUTTER; COORDINATE WITH OWNER FOR EXACT LOCATION PRIOR TO COMMENCEMENT OF WORK. PROVIDE PLASMA CUTTER EXHAUST DUCT THRU SIDE OF WALL AT THIS APPROXIMATE LOCATION. COORDINATE WITH EQUIPMENT FOR DUCT SIZE AND CONNECTION REQUIREMENTS.
- 14 ON/OFF SWITCH FOR SMOKE FILTRATION UNIT SFU-1. 15 GENERAL EXHAUST FAN 0-2 HOUR TIMER SWITCH WITH PILOT LIGHT.







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BID ALTERNATE #1

REFERENCE NOTES

- 1 MOUNT RETURN GRILLE ON BOTTOM OF DUCT.
- 2 PROVIDE 14"x14" NECK DOWN TO 16" BELOW ROOF DECK. PROVIDE 1/4" HARDWARE CLOTH OVER OPENING OF EXHAUST DUCT.
- 3 HEATING AND COOLING THERMOSTAT FOR RT-1. 4 RUN DUCTWORK BELOW STRUCTURE. FIELD COORDINATE ELEVATION OF DUCTWORK PRIOR TO COMMENCEMENT OF WORK.









M1.2



APPROXIMATELY 5'-0" ABOVE FINISHED FLOOR. (2) COORDINATE FINAL DROP LOCATIONS WITH EQUIPMENT PROVIDED, LOCATION AND ORIENTATION PRIOR TO FABRICATION OF EXHAUST DUCT SYSTEM.









SYMBOL	CF
RT-1	300
NOTES: (1) UNIT TO (2) UNIT TO (3) UNIT TO (4) UNIT TO	be c have have have

SYMBOL	
MAU-1	W
MAU-2	

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	ROOFTOP UNIT SCHEDULE															
Л	ESP	FAN SIZE	FAN MOTOR HP	EAT	COOI LAT	LING CAPACITY	COIL SIZE	EER	TYPE	HEATI GAS PR.	NG CAPACI ⁻ MBH IN	ry MBH OUT	POWER	MCA	MODEL & MANUFACTURER	OPERATING WEIGHT
J	1.00"	15"x15"	3 H.P.	80°F	55°F	118.9	10.0	9.0	NAT. GAS	4 OZ.	224	180	460/3/60	24.2	(1)(2)(4) CARRIER 48TJE012	1262

COMPLETE WITH CURB.

VE AN OUTSIDE AIR/RETURN AIR/ RELIEF AIR ECONOMIZER. VE AN OUTSIDE AIR/RETURN AIR/ RELIEF AIR ECONOMIZER WITH POWER RELIEF FANS. VE HEAD PRESSURE CONTROL PACKAGE.

				MA	KE-UP	AIR UN	IIT SCHE	EDULE				
AREA SERVED	CFM	ESP	EVAP	FLOW	NATURAL	. GAS - HEATIN	G CAPACITY	ELECTRICAL		MGA	SIZE L"xW"xH"	
			SECTION	CONFIG	MBH INPUT	MBH OUTPUT	EFFICIENCY	VOLTAGE	FLA	MCA		
OOD SHOP - PAINT BOOTH	8,000	0.3"	NO	DOWN	575.8	529.8	92%	5.0 HP 460/3/60	6.9	9.2 A	157"L x 58"W x 58"H 2,000 LBS	ECON-AIR EA
METAL SHOP	1200	.50"	NO	DOWN	90	80	92%	.50 H.P. 460/3/60	0.9	1.7 A	178"L x 50"W x 40"H 1100 LBS	ECON-AIR EA

NOTES: (1) DIRECT NATURAL GAS FIRED. (2) FAN CFM AT PROJECT ALTITUDE OF 5611'. (3) 2" PLEATED FILTERS, 20" FACTORY ROOF CURB, FACTORY DISCONNECT, RAIN HOOD, AND HAIL GUARDS. (4) FACTORY UN-POWERED 20 AMP@ 120/1/60 CONVENIENCE OUTLET. (5) INTERLOCK WITH EF-2. (6) INTERLOCK WITH DAINT ROOT LEXILATED FAN.

(6) INTERLOCK WITH PAINT BOOTH EXHAUST FAN.

	EXHAUST FAN SCHEDULE											
	SYMBOL	AREA SERVED	TYPE	C.F.M	S.P.	R.P.M.	MOTOR	DRIVE	WEIGHT	MAKE & MODEL	NOTES	
GENERAL	EF-1	WRESTLING	ROOF	1200	0.25"	1097	1/4 H.P. 120/1/60	BELT	164 LBS.	TWIN CITY BCRD-120D	(1)(2)(3)	
GENERAL	EF-2	WELD. SHOP	ROOF	1200	0.25"	1097	1/4 H.P. 120/1/60	BELT	164 LBS.	TWIN CITY BCRD-120D	(1)(2)	
WELD ARMS	EF-3	WELD. SHOP	ROOF	2000	.50"	1750	3/4 H.P. 120/1/60	DIRECT	250 LBS.	TWIN CITY 135 DCV	(4)	

NOTES:

(1) EXHAUST FANS TO BE ROOF-MOUNTED CENTRIFUGAL TYPE, COMPLETE WITH SPUN ALUMINUM HOOD, BIRDSCREEN, DISCONNECT SWITCH UNDER HOOD

AND BACKDRAFT DAMPER.

(2) EXHAUST FAN SHALL BE COMPLETE WITH 18" HIGH PRE-FAB ROOF CURB. (3) FAN TO OPERATE DURING OCCUPIED HOURS. BY ATC CONTRACTOR. SEE SPECIFICATIONS.

(4) FAN TO BE UPBLAST, HAVE MOTORIZED SHUTTER, VIBRATION ISOLATION RAILS, NEMA RATED DISCONNECT SWITCH

	ELECTRIC UNIT HEATER SCHEDULE									
SYMBOL	TYPE	SIZE	CFM	ELECTRICAL	MAKE & MODEL					
EH-1	SURFACE MTD.	10"W x 13"H x 4"D	100	1000 WATT (4.8 AMP) @ 208/1/60	MARKEL F3052TDWB					
EH-2	HORIZ. 14"x21"x22" DEEP		580	3KW @ 208/1/60 16.3 AMPS	MARKEL EXPLOSION PROOF HLA 12-208160-3.0					

NOTES: PROVIDE DISCONNECT AND INTEGRAL THERMOSTAT.

	DIFFUSER SCHEDULE											
SYMBOL	TYPE	NECK SIZE	LOCATION	AIR PATTERN	MAKE & MODEL							
					(1)							
D-1 CFM	ROUND FACE	12"Ø	DUCT	4-WAY	TITUS TMRA							
D-2 CFM	SUPPLY AIR	6"x12"	MUA-2	ADJUSTABLE	(2) PRICE HCD2							

<u>NOTES:</u> (1) TO HAVE OFF-WHITE FINISH.

(2) DIFFUSER SHALL BE COMPLETE WITH OPPOSED BLADE BALANCING DAMPER

	GRILLE SCHEDULE												
SYMBOL	NECK SIZE	LOCATION	TYPE	MAKE & MODEL (1)									
G-1	46" x 24"	DUCT MOUNTED	SUPPLY AIR	TITUS 33RL (2)									
G-2	22" x 30"	DUCT MOUNTED	SUPPLY AIR	TITUS 33RL (2)									
G-3	48" x 40"	DUCT MOUNTED	SUPPLY AIR	TITUS 272RS (4)									
G-4	30" x 30"	DUCT MOUNTED	RETURN	TITUS 355 (3)									
G-5	16" x 16"	DUCT MOUNTED	EXHAUST	PRICE 500-45 (5)									

NOTES: (1) GRILLE SHALL HAVE BRIGHT WHITE FINISH.

(2) GRILLE SHALL BE HEAVY DUTY GYMNASIUM TYPE. (3) GRILLE TO BE ALUMINUM CONSTRUCTION.

(4) FILTER GRILLE TO BE PROVIDED WITH 2" FILTER AND HINGES ON THE RIGHT (FIELD VERIFY).

(5) REGISTER TO BE HEAVY DUTY GYMNASIUM TYPE.

		GAS F	IRED UN	IT HEA	TER	SCHEDU	LE
SYMBOL	TYPE	MBH INPUT	MBH OUTPUT	FLUE	CFM	MOTOR	1
GUH-1	HORIZONTAL	400	332	6"Ø	5123	120/1/60	REZ
GUH-1	HORIZONTAL	400	332	6"Ø	5123	0.5 HP 120/1/60	REZ

<u>NOTES:</u> (1) PROVIDE FACTORY ROOF VENT/INTAKE TERMINATION KIT.

(1)(2) IUFACTURER	(3)(4)
A4-D.1000-30D	(6)
A1-D.500-15D	(5)

IAKE & MODEL	
NOR UDXC-400	

MECHANICAL EQUIPMENT SCHEDULE

PB-1	PAINT BOOTH: OPEN WHITE, FILTERED EXH 7,500 CFM @ 0.5" S.P. DIVISION 2, FILTER BA SECURING HARDWAR SPRAY. PROVIDE SO CONTROL PANEL FOR COORDINATE WITH E CONTROL PANEL TO CONTROL PANEL TO	FRONT, 18 GA GALVANIZED STEEL CONSTRUCTION, POWDER COATED HAUST, INTEGRAL 30" IN-LINE TUBE-AXIAL FAN AND MOTOR, CAPACITY , INTERIOR SIZE 6'W x 5'D x 10'H, LED LIGHT, ELECTRICAL CLASS 1 ANK WITH BLANKET MEDIA (2-STAGE FILTRATION) AND TIGHTLY SEALED RE. PROVIDE TWO SETS OF FILTER MEDIA SUITABLE FOR WOOD FINISH LENOID VALVE FOR ASSOCIATED COMPRESSED AIR PIPING AND R ACTIVATION OF PAINT BOOTH FAN, LIGHTS, AND MAKE-UP AIR UNIT. LECTRICAL [POWER TO CONTROL PANEL. ELECTRICIAN TO WIRE FROM FAN MOTOR AND LIGHTS. BAS (ATC) CONTRACTOR TO WIRE FROM SOLENOID.]
	MANUFACTURER: MODEL: ELECTRICAL:	RTT SOLUTIONS IB-06-10-05-00-S FAN - 2.0 HP @ 460/3/60 CONTROL PNL/LIGHTS - 15 AMP @ 120/1/60
	SIZE: WEIGHT:	6'-4"W x 7'-8"D x 10"-2"H 1,650 LBS
SC-1	SAWDUST COLLECTC WEATHERPROOF CO DUST. AUTOMATIC C TO 110 PSIG / 20.4 SC LEVEL INDICATOR, AN WITH CONTROLS, DIS ADAPTER FOR HOPPI DUST COLLECTOR TC	OR: CARTRIDGE PULSE TYPE. 10,570 CFM AT 14" WGSP (10 " ESP), NSTRUCTION, SPUN BONDED POLY CARTRIDGE FILTERS FOR WOOD OMPRESSED AIR PULSE TYPE FILTER CLEANER (3.4 SCF PER PULSE @ 90 FM @ 6 PULSES PER MINUTE), LEG EXTENSIONS AS REQUIRED, HIGH ND SLIDE GATE AT HOPPER OUTLET. GROUND MOUNTED FAN. CABINET SCONNECT, AND MOTOR STARTER. PROVIDE DUMPSTER LID WITH ER OUTLET. SHEET METAL CONTRACTOR TO PROVIDE DUCTWORK FROM O FAN. PROVIDE SOUND ATTENUATOR WITH SAWDUST COLLECTOR.
	MANUFACTURER: MODEL: ELECTRICAL: SIZE:	UNITED AIR SPECIALTIES SCF 32-4 40 HP @ 460/3/60 (FAN) 120/1/60 (CONTROLS & VALVES) 90"W X 87"D X 226"H
SD-1	SAWDUST DUMPSTER STEEL CONSTRUCTIC POWDER COATED PA LID (SEE DETAIL FOR	R: SELF DUMPING HOPPER, 1.5 CUBIC YARD, 2,000 LB CAPACITY, ALL DN, FORKLIFT TRANSPORTABLE, DUMP LATCH, RETAINING CHAIN, INT FINISH (COLOR BY ARCHITECT), PROVIDE 6" CASTERS AND CUSTOM LID). COORDINATE ALL COMPONENT SIZES PRIOR TO ORDERING.
	MANUFACTURER: MODEL: SIZE:	VESTIL (OR EQUAL OF DONALDSON OR OTHER PRIOR APPROVED) HOP-150-LD 60"W X 62"D X 43"H (W/ CASTERS)
NRV-1	NO RETURN VALVE, 2 4 CONTROL CABINET	3", WITH MICRO-SWITCH, DUST LEVEL SENSOR, CONTROLLER, AND NEMA . COORDINATE ALL COMPONENT SIZES PRIOR TO ORDERING.
	MANUFACTURER: B MODEL: N SIZE: 41	OSS PRODUCTS RV. "L X 32"W X 34"H
AG-1	ABORT GATE, 28"x28" MOUNTED FIRE SPRIN PRIOR TO ORDERING	(23" DIA.), NFPA APPROVED, SPARK DETECTOR, GMCU1610SD CONTROLLER, DUCT NKLER, AND NEMA 4 CONTROL CABINET. COORDINATE ALL COMPONENT SIZES
	MANUFACTURER: B MODEL: EI ELECTRICAL: 3 SIZE: 49	OSS PRODUCTS M-HSAG AMPS @ 120/1/60 "L X 36"W X 64"H
FR-1	FILTER RACK: TWO S HINGED DOORS, WITH AND SIX (6) 2" PRE FI	TAGE FILTER HOUSING, 16 GA STEEL CONSTRUCTION, SIDE ACCESS H TRACKS FOR SIX (6) 12" BOX FILTERS, LTERS.
	MANUFACTURER: AA MODEL: SU BOX FILTER: 24' PRE-FILTER: 24' SIZE: 74'	F RESEAL 20H 30W 'X24" VARICEL XL (MERV 11) 'X24" PERFECTPLEAT SC M8 (MERV 8) 'W X 50"H X 24"D
WA-1	WELDING ARM: WALL ROTATABLE HOOD, 40 VALVE THAT CAN BE TELESCOPIC TUBE W FT WORKING RADIUS	- MOUNTED, 8"Ø TELESCOPIC EXTRACTION ARM WITH 00 CFM, FOCUS EXTRACTION SPOILER, AND INTEGRAL THROTTLE FULLY OPENED, PARTIALLY OPENED, OR FULLY CLOSED. PROVIDE ITH COUNTERWEIGHT MECHANISM ALLOWING FOR 4 FT TO 6 . MOUNT AS PER MANUFACTURERS INSTRUCTIONS.
	MANUFACTURER: LIN MODEL: PRI WEIGHT: 57 L	ICOLN (OR EQUAL OF GREENE MFG, OR CAR-MON PRODUCTS) SM K1655-15 BS
SFU-1	SMOKE FILTRATION U TWO STAGE PENNEY ELECTROSTATIC AIR EXHAUST DIFFUSER. MANUFACTURER: UN MODEL: SHN-40-S	JNIT: 4000 CFM NOMINAL AIRFLOW, 5 H.P. TEFC MOTOR, 480/3/60, -TYPE CLEANER, UL RECOGNIZED/CSA CERTIFIED, 4-WAY ADJUSTABLE IITED AIR SPECIALISTS









M5.1



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naylor wentworth lund

architects

- POWER 460/3/60 (BY DIV. 26)





ROOF MOUNTED EXHAUST FAN DETAIL NOT TO SCALE

M6.2

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A 6

В



HORIZONTAL BELT SANDER DETAIL



4



1

- TAIL END HOOD

(350 CFM)

- CLEANOUT - FLOOR

7 M6.2

2









M6.2



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3"(E)



PLUMBING DEMOLITION PLAN- SHOPS















В

TIE IN NEW 5# GAS LINE TO EXISTING 3" 5LBS GAS LINE AT THIS APPROXIMATE LOCATION. FIELD VERIFY BEST ROUTE FOR NEW	14	UPSIZE NEW AIR LINE FROM 1" TO 1-1/2" FOR SERVICE TO DUST COLLECTOR.	31	EMERGENCY EYEWASH; PROVIDE 2" DRAIN, OFFSET IN WALL TOWARDS SINK S-1 DRAIN; COMBINE WITH SINK DRAIN IN WAI		
PIPE BELOW STRUCTURE. TIE IN NEW 5# GAS LINE AT THIS APPROXIMATE LOCATION TO SERVE AUTO SHOP UNIT HEATER. FIELD VERIFY BEST ROUTE FOR NEW PIPE BELOW STRUCTURE.	15	CONNECT NEW 1-1/2" AIR LINE TO EXISTING 1" AIR LINE AT THIS APPROXIMATE LOCATION. FIELD VERIFY LOCATION OF EXISTING AIR COMPRESSOR AND SIZE OF MAIN AIR BRANCH PRIOR TO COMMENCMENT OF WORK. LINE SIZED FOR FUTURE CAPACITY.		SINGLE 2" DROP WITH 1-1/2" VENT UP TO EXISTING VENT LINE. FIELD COORDINATE ALL REQUIRED CONNECTIONS PRIOR TO COMMENCEMENT OF WORK. PROVIDE TEMPERING VALVE STATION TV-1 HIGH ABOVE EW-1; RUN 1/2" COLD WATER AND HOT WATER LINES TO TV-1. AND PROVIDE 1/2" TEMPERED WATER LINE DOWN		
TIE IN NEW 5# GAS LINE AT THIS APPROXIMATE LOCATION TO	16	LINE SIZE BALL VALVE (TYPICAL). VALVE MUST BE ACCESSIBLE.		TO SUPPLY EW-1.		
SERVE AUTO SHOP UNIT HEATER. FIELD VERIFY BEST ROUTE FOR NEW PIPE BELOW STRUCTURE.	17	3/4" COMPRESSED AIR CONNECTION TO PB-1. PROVIDE	32	EXTEND NEW 1-1/2" VENT LINE TO EXISTING AT THIS APPROXIMATE LOCATION; FIELD VERIFY LOCATION.		
TIE IN NEW 5# GAS LINE AT THIS APPROXIMATE LOCATION TO		SYSTEM AND DOOR.	33	3-STATION HAND SINK; ROUTE 3/4" CW & HW DOWN IN WALL AS		
SERVE AUTO SHOP UNIT HEATER. FIELD VERIFY BEST ROUTE FOR NEW PIPE BELOW STRUCTURE.	18	DROP TO 48" A.F.F.		GATHER DRAIN LINE FROM EW-1 AND DROP IN A SINGLE 2" DRAIN		
	19	AIR PRESSURE REGULATOR WITH SHUT OFF AND FILTER/DRYER. MOUNT AT 48" A.F.F.	34	LINE. PROVIDE PIPE TRANS CONNECTION AS REQUIRED.		
	20	SEAL PENETRATION WATER TIGHT.	54	SEWER LINE TO CONNECT TO EXISTING LINE ADJACENT AS		
COORDINATE WITH STRUCTURAL FOOTINGS.	21	SUPPORT AIR PIPING AT WALL.		INVERT OF EXISTING SEWER LINE PRIOR TO COMMENCEMENT OF		
DN-1 AT 30" ABOVE FINISHED GRADE.	22	1-1/2" COMPRESSED AIR TO SAW DUST COLLECTOR. FIELD COORDINATE SIZE AND LOCATION WITH UNIT PROVIDER.		WORK. INSTALL AS PER SPECIFICATIONS. PATCH FLOOR TO MATCH EXISTING. 1-1/2" VENT LINE UP FROM COMMON 2" DROP IN WALL TO CONNECT TO EXSTING VENT LINE.		
PIPING TO RUN EXPOSED HIGH AND TIGHT AT STRUCTURE. COORDINATE WITH BUILDING STRUCTURE.	23	CONNECT AIR TO ABORT GATE PER MANUFACTURER'S RECOMMENDATIONS.	35	PROVIDE NEW 4" SANITARY SEWER LINE; FIELD COORDINATE		
DROP SECONDARY ROOF DRAIN LINE TO 30" ABOVE FINISHED GRADE.	24	EXISTING HOSE BIBB TO REMAIN.		DEPTH OF INVERT REQUIRED BETWEEN BUILDING OUTLET AND CONNECTION TO EXISTING ON NORTH SIDE OF METAL SHOP.		
PROVIDE LINE SIZED GAS SHUTOFF VALVE AND 5# TO 40Z PRESSURE REGULATOR; GAS UP THRU ROOF.	25	DROP AIR PIPE TO EQUIPMENT. CONTRACTOR TO COORDINATE EXACT LOCATION OF EQUIPMENT PRIOR TO COMMENCEMENT OF WORK.	36	4" FLOOR CLEANOUT. COORDINATE WITH LOCATION OF SHOP EQUIPMENT. SHIFT FOR BEST ACCESS ALONG LENGTH OF SANITARY SEWER LINE.		
GAS PIPING TO SERVE AUTO SHOP; GAS PIPING TO BE RUN	26	EXISTING AIR DROP TO REMAIN, TYPICAL.	37	PROVIDE DOUBLE CLEANOUT TO GRADE. SEE DETAILS.		
COORDINATE EXACT LOCATION OF EXISTING GAS LINE FOR TIE IN	27	1/2" AIR DROP FOR PANEL SAW.				
GAS PIPING TO SERVE AUTO SHOP TO DROP DOWN OUTSIDE OF	28	PROVIDE 1/2" AIR DROP FOR RELOCATED PLASMA CUTTER. COORDINATE WITH OWNER FOR EXACT LOCATION OF DROP.				
WALL AND BELOW GRADE; FIELD COORDINATE EXACT LOCATION OF EXISTING GAS LINE FOR TIE IN BELOW GRADE.	29	PROVIDE 3/4" CW DROP WITH LINE SIZED SHUTOFF VALVE AND HB-2 FOR RELOCATED PLASMA CUTTER. COORDINATE WITH				
HOSE BIBB BRANCH LINE BACK INTO NEW 3/4" EXTENSION AS SHOWN.		CONTRACTOR TO DEMO AND REWORK WALL AS REQUIRED TO				











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<u>C</u>

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REFERENCE NOTES

- 1 RUN ROOF DRAIN AS HIGH AS POSSIBLE THRU STRUCTURE. FIELD VERIFY BEST ROUTE FOR NEW ROOF DRAIN.
- 2 TIE IN PRIMARY ROOF DRAIN BELOW GRADE AT 5'-0" PAST EDGE OF BUILDING. COORDINATE WITH CIVIL.
- 3 SECONDARY ROOF DRAIN DOWNSPOUT; TAKE OUT HIGH AND CENTERED IN BLOCK COURSE. FIELD COORDINATE LOCATION OF SECONDARY DRAIN OUTLET; CAULK AND SEAL WATER TIGHT.
- 4 LINE SIZE GAS SHUTOFF VALVE AND 5 LBS TO 1 LBS GAS PRESSURE REGULATOR, IN ACCESSIBLE LOCATION.
- 5 TIE NEW 3/4" 5 LBS GAS LINE INTO EXISTING 2-1/2" 5 LBS GAS LINE AT THIS APPROXIMATE LOCATION. CONTRACTOR TO FIELD VERIFY EXACT LOCATION PRIOR TO BIDDING AND COMMENCEMENT OF WORK. SUPPORT PIPE AS PER SPECIFICATIONS.
- RUN GAS LINE AS HIGH AS POSSIBLE BELOW STRUCTURE.
 PROVIDE PAINT-LOCK METAL COVER AT EXPOSED GAS LINE AT EXTERIOR WALL. COORDINATE WITH OWNER FOR COLOR OF PAINT.











6



SCALE: NTS



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		PLUN	IBING	FIXTU	IRE SC	HEDU	LE				
SYMBOL	FIXTURE	WASTE	VENT	C.W.	H.W.	TEMP.	NOTES (1)				
	AIR OUTLET						1/2" QUICK DISCONNECT COUPLING WITH BOTH I AND FEMALE PORTIONS. LINCOLN OR EQUAL				
HB 1	HOSE BIBB			3/4"			EXTERIOR NON-FREEZE TYPE				
(HB)	HOSE BIBB			3/4"			CHROME EXPOSED				
$\left\langle \begin{array}{c} S \\ 1 \end{array} \right\rangle$	SINK (SHOPS)	2"		-	-	1/2"	ELLIPTICAL BASE MOUNTED				
EW 1	EMERGENCY EYEWASH	2"		-	-	1/2"	WALL MOUNTED				
$\overline{\begin{array}{c} TV \\ 1 \end{array}}$	TEMPERING VALVE (EW-1)	-		1/2"	1/2"	1/2"	MIXING VALVE WITH MANIFOLD				
(RD) 1	ROOF DRAIN						SEE DRAWINGS FOR SIZES				
(RD)/2	SECONDARY ROOF DRAIN						SEE DRAWINGS FOR SIZES				
	DOWNSPOUT						SEE DRAWINGS FOR SIZES				

NOTES:

(1) CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL PLUMBING FIXTURES ACCORDING TO ARCHITECTURAL DRAWINGS PRIOR TO ANY ROUGH-IN OR INSTALLATION WORK,





SCALE: NTS

P5.1



















P5.1

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FIRE PROTECTION DEMOLITION PLAN- SHOPS



REFERENCE NOTES

- EXISTING ALARM BELL TO BE DEMOLISHED.
 EXISTING SIAMESE CONNECTION TO BE DEMOLISHED AND RELOCATED; SEE SHEET FP1.1.
- RELOCATED; SEE SHEET FP1.1.
- 3 EXISTING UPRIGHT BRASS PENDANT TO REMAIN, TYPICAL SHOP AREAS.
 4 EXISTING BRASS PENDANT TO REMAIN, TYPICAL OFFICES
- 5 EXISTING BRASS PENDANT SPINKLER HEADS TO BE PROTECTED DURING DEMOLITION; IF DAMAGED, CONTRACTOR IS TO PROVIDE NEW HEADS TO MATCH EXISTING.

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FIRE PROTECTION PLAN- SHOPS 0 4' 8'

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

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REFERENCE NOTES

- 1 NEW FIRE ALARM BELL LOCATION.
- CONTRACTOR TO VERIFY WITH FIRE MARSHALL THAT EXISTING FIRE RISER MEETS CURRENT CODE REQUIRMENTS. EXISTING FIRE RISER TO BE FULLY UPDATED. 2 3 PROVIDE NEW SIAMESE CONNECTION.
- 4 APPROXIMATE LOCATION FOR TIE IN OF NEW FIRE PROTECTION BRANCH LINE TO SERVE NEW AREAS. FIELD COORDINATE EXACT LOCATION PRIOR TO COMMENCEMENT OF WORK.
- 5 DUST COLLECTION SYSTEM; PROVIDE FIRE HEADS IN SAWDUST COLLECTOR DUCTWORK. COORDINATE WITH INSTALLING CONTRACTOR. SEE SCHEMATIC 1/M601 FOR FOR CONNECTIONS AND CONTROLS.
- DUST COLLECTION SYSTEM; PROVIDE FIRE HEADS IN SAWDUST COLLECTOR DUCTWORK. COORDINATE WITH INSTALLING CONTRACTOR. SEE SCHEMATIC 1/M601 FOR FOR CONNECTIONS 5 AND CONTROLS.
- 6 REPLACE SPINKLER HEADS IF DAMAGED DURING DEMOLITION.
- REPLACE ANY SPINKLER HEAD IF DAMAGED OR NON-WORKING, TYPICAL ALL HEADS IN ACTIVE SCOPE AREAS. 7











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REFERENCE NOTES <#>

- TIE IN NEW FIRE PROTECTION BRANCH LINE AT THIS APPROXIMATE LOCATION. FIELD COORDINATE LOCATION PRIOR TO COMMENCEMENT OF WORK. SIZE TO BE DETERMINED BY SPRINKLER CONTRACTOR. 1
- 2 SUGGESTED PATH FOR NEW FIRE SPINKLER BRANCH TO SERVE WRESTLING. FIELD COORDINATE BEST LOCATION PRIOR TO COMMENCEMENT OF WORK.











PIPING OR EQUIPMENT HANGAR ATTACHMENT TO TRUSS OR GIRDER NOT TO SCALE

FIRE PROTECTION LEGEND







(TYP.)

FP5.1

GENERAL FIRE PROTECTION NOTES

- THE FIRE SPRINKLER CONTRACTOR SHALL COORDINATE HIS WORK WITH THE ELECTRICAL, SHEET METAL, PLUMBING, AND CEILING CONTRACTORS TO AVOID ANY CONFLICTS IN PIPE ROUTING OR HEAD LOCATIONS.
- RUN SPRINKLING PIPING AS HIGH AS POSSIBLE IN JOIST SPACE ABOVE CEILING AND COORDINATE WITH DUCTWORK.
- 3. FIRE SPRINKLER PLANS SHALL BE APPROVED BY ALL GOVERNING AGENCIES PRIOR TO SUBMITTING PLANS TO THE ARCHITECT.
- THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE COMPLETE FIRE SPRINKLER SYSTEMS, INCLUDING ALL ITEMS AS REQUIRED OR RECOMMENDED BY ALL GOVERNING AGENCIES.
- 5. FIRE SPRINKLER SYSTEM SHALL COMPLY WITH N.F.P.A. 13, AND ALL GOVERNING AGENCIES.
- PIPE SLEEVES THROUGH FIRE-RATED WALLS, PARTITIONS, AND CEILINGS 6. SHALL BE OF FIRE RATED CONSTRUCTION. SPACE BETWEEN PIPE AND SLEEVE SHALL BE PACKED WITH FIREPROOF MATERIAL, U.L. LISTED. (FIRE SHIELDS, INC. MODEL DFB-CS)
- FIRE SPRINKLER HEADS IN INDIVIDUAL ROOMS TO BE RUN IN STRAIGHT 7 LINES AND COORDINATED WITH CEILING AND LIGHTS.
- FIRE SPRINKLER CONTRACTOR SHALL COORDINATE HIS LOCATION OF PIPING VERY CAREFULLY WITH THE ARCHITECTURAL AND STRUCTURAL PLANS AND AS APPROVED BY THE ARCHITECT.
- 9. HEAD GUARDS TO BE PROVIDED IN ACCORDANCE WITH N.F.P.A.
- 10. FIRE SPRINKLER TEST VALVES TO BE LOCATED IN AREAS CONVENIENT TO MAINTENANCE PERSONNEL, BUT AWAY FROM PUBLIC ACCESS.
- 11. THE UTAH STATE FIRE MARSHALS OFFICE SHALL BE NOTIFIED (IN WRITING) AT LEAST THREE DAYS IN ADVANCE OF THE FOLLOWING:
- HYDROSTATIC TEST AND FINAL INSPECTION OF OVERHEAD SYSTEMS Α. PRIOR TO INSTALLATION OF CEILINGS.
- B. FLUSHING OF UNDERGROUND PRIOR TO CONNECTION OF OVERHEAD. HYDROSTATIC TEST AND FINAL INSPECTION OF UNDERGROUND PRIOR TO BACKFILLING.
- 12. CONTRACTOR SHALL FIELD VERIFY ALL PIPE LOCATIONS PRIOR TO FABRICATION OF PIPE SYSTEMS.
- 13. FIRE PROTECTION DRAWINGS ARE DIAGRAMMATIC ONLY.
- 14. FIRE PROTECTION CONTRACTOR SHALL COORDINATE ROUTING, HANGING AND BRACING WITH ROOF STRUCTURE. ALL FIRE SPRINKLER PIPING SHALL COMPLY WITH THE FOLLOWING.
- CORE DRILLING WALLS AND SLABS
- A. CONTRACTOR SHALL USE GROUND PENETRATING RADAR OR OTHER APPROVED METHOD TO SCAN CONCRETE OVER METAL DECK, CONCRETE SUSPENDED SLABS, MASONRY WALLS, AND CONCRETE WALLS TO LOCATE REBAR PRIOR TO CORE DRILLING ANY HOLES. HOLES SHALL BE LOCATED TO AVOID REBAR DETECTED. ALL OPENINGS AND GROUPS OF OPENINGS SHALL BE REINFORCED AS SHOWN ON THE STRUCTURAL DRAWINGS. OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER PRIOR TO DRILLING.
- ATTACHMENT TO STEEL DECK
- A. STEEL DECK WITHOUT CONCRETE FILL SHALL NOT BE USED TO SUPPORT LOADS FROM PLUMBING, HVAC DUCTS, LIGHT FIXTURES, ARCHITECTURAL ELEMENTS OR EQUIPMENT OF ANY KIND, UNLESS SPECIFICALLY NOTED OTHERWISE.
- B. STEEL DECK WITH CONCRETE FILL MAY BE USED TO SUPPORT LOADS OF UP TO 500# FROM PLUMBING, HVAC DUCTS, LIGHT FIXTURE, ARCHITECTURAL ELEMENTS AND MISCELLANEOUS EQUIPMENT. LOADS SHALL BE DISTRIBUTED SUCH THAT THE AVERAGE LOAD DOES NOT EXCEED 50 LBS/SQ.FT. AND NOT MORE THAN 500# IS LOCATED ON ANY SINGLE DECK FLUTE SPAN BETWEEN SUPPORT BEAMS. ATTACHMENTS TO STEEL DECK WITH CONCRETE FILL SHALL ENGAGE THE CONCRETE, AND SHALL BE APPROVED FOR USE IN CRACKED CONCRETE
- ATTACHMENT TO OPEN WEB STEEL JOISTS AND GIRDERS A. ALL CONCENTRATED LOADS GREATER THAN 100 POUNDS AND NOT MEETING THE REQUIREMENTS OF ITEM 2 BELOW SHALL BE LOCATED WITHIN 6 INCHES OF THE JOIST OR GIRDER PANEL POINTS OR THE JOIST OR GIRDER SHALL BE REINFORCED WITH AND ADDITIONAL WEB MEMBER. REFER TO THE GENERAL STRUCTURAL NOTES AND THE "TYPICAL DETAIL AT ADDITIONAL CONCENTRATED POINT LOAD" ON THE STRUCTURAL DRAWINGS.
- B. CONCENTRATED POINT LOADS, SINGLE OR MULTIPLE, TOTALING 100 POUNDS OR LESS BETWEEN PANEL POINTS CAN BE LOCATED AT ANY POINT ALONG THE TOP OR BOTTOM CHORD OF A JOIST OR GIRDER BETWEEN ADJACENT PANEL POINTS WITHOUT MEETING THE REQUIREMENTS OF ITEM 1 ABOVE, PROVIDED THE LOADS ARE APPLIED TO THE JOIST SUCH THAT BOTH ANGLES OF THE TOP OR BOTTOM CHORD ARE EQUALLY LOADED (I.E. NO SINGLE BEAM CLAMPS).
- C. JOIST BRACING SHALL NOT BE USED TO SUPPORT HANGING LOADS D. BRACING OF MISCELLANEOUS ITEMS INCLUDING
- MECHANICAL, PLUMBING, CONDUIT, ARCHITECTURAL ELEMENTS, ETC. SHALL CONNECT TO THE TOP CHORD OF THE JOIST OR GIRDER UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
- ATTACHMENT TO STEEL BEAMS
- A. BRACING FOR SEISMIC LOADS SHALL ATTACH WITHIN 4" OF THE TOP FLANGE OF THE BEAM, UNLESS NOTED OTHERWISE.

- 15. STEEL ROOF DECKING SHALL NOT BE USED TO SUPPORT LOADS FROM FIRE SPRINKLER ELEMENTS OR EQUIPMENT OF ANY KIND, UNLESS SPECIFICALLY NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
- 16. ALL FIRE SPRINKLER PIPING RUNNING IN OCCUPIED AREAS WITH EXPOSED STRUCTURE SHALL RUN WITH SLOPE OF ROOF DECK.
- 17. FIRE SPRINKLER CONTRACTOR SHALL COORDINATE ANY CROSSOVERS OR DROPS AT MAIN CORRIDOR TO AVOID CONFLICTS WITH SKYLIGHTS. DROPS & CROSSOVER LOCATIONS SHALL BE VERIFIED WITH PROJECT ARCHITECT PRIOR TO INSTALLATION.
- 18. ALL FIRE MAINS SHALL RUN ABOVE AREAS WITH CEILINGS WHERE APPLICABLE.
- 19. IN EXPOSED AREAS THE FIRE SPRINKLER CONTRACTOR SHALL COORDINATE PIPING & HEAD LOCATIONS WITH HVAC DUCTWORK, DIFFUSERS AND ALL LIGHTING LAYOUT.
- 20. FIRE SPRINKLER HEADS IN ALL CORRIDORS SHALL BE INSTALLED AS CLOSE TO THE CENTERLINE OF THE CORRIDOR AS POSSIBLE.
- 21. ALL SPRINKLER MAINS SHALL RUN THRU TRUSSES OR BETWEEN TRUSSES IN TRUSS SPACE. INSTALLING MAINS BELOW BOTTOM CHORD OF TRUSSES WILL NOT BE ALLOWED.
- 22. FIRE SPRINKLER CONTRACTOR SHALL CAREFULLY COORDINATE SPRINKLER SYSTEM WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR VARIATIONS IN CEILING TYPE AND CEILING ELEVATION CHANGES..
- 23. ALL PENETRATIONS AT 1 HOUR AND 2 HOUR WALLS SHALL BE FIRE CAULKED PER RATING REQUIRED. COORDINATE WITH LIFE SAFETY PLAN.
- 24. ALL INSTALLATION OF SPRINKLER PIPING, FIRE HEADS & LAYOUT IN EXPOSED, OCCUPIED AREA SHALL BE REVIEWED AND APPROVED BY PROJECT ARCHITECT PRIOR TO INSTALLATION AS TO LOCATION, AND TYPE OF HEADS TO BE PROVIDED.







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NOTES: 1. SEE FI) 2. HEIGH	KTURE SCHEDUL
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	TOMBSTONE
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EV SECURITY	SINGLE / DUA SCHEDULE NETWORK VIDE ACCESS CONTI SPECIALIZED S (GARAGE DOOF DR=DOOR RELI DB=DURESS / F T=TRANSMITTE INTRUSION MO SOLID - WALL M GLASS BREAK SOLID = WALL M INTRUSION DET INTRUSION DET INTRUSION DET INTRUSION DET INTRUSION DET INTRUSION DET INTRUSION DET INTRUSION DET SOLID = WALL M SMOKE & C/O D SOLID = WALL M SMOKE & HEAT SOLID = WALL M SMOKE & HEAT SOLID = WALL M SMOKE & HEAT SOLID = WALL M

SYMBOL LEGEND

JRE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE. EASURED TO CENTER LINE OF THE BOX FROM THE FINISHED FLOOR.

- DRAWINGS FOR DIRECTIONAL ARROWS. T INDICATES FIXTURES TO BE CONTROLLED. PE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED). USE 'HD' 480 V.
- EASURED TO TOP OF THE BOX FROM FINISHED FLOOR. H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.
- RROWS INDICATES A DOUBLE FACE UNIT. NOTED WITH AN 'A' INDICATE TO COORDINATE WITH MILLWORK SHOP S AND ELEVATIONS FOR HEIGHT.
- T INDICATES NEMA CONFIGURATION. X AROUND DEVICE INDICATES INSTALLED IN FLOOR. DASHED BOX AROUND DICATES INSTALLED IN CEILING.
- 12. COORDINATE WITH DOOR HARDWARE SUPPLIER. 13. FOR WATER COOLER LOCATION, SEE DIAGRAM R002. FOR ALL OTHER LOCATIONS, MOUNT AT +16" TO BOTTOM OF BOX FROM FINISHED FLOOR, OR AS NOTED.
- 14. ARROWS SHOWN ON DEVICE INDICATE SENSOR AIMING DIRECTION. 15. CAMERA NUMBERS ARE SHOWN INSIDE THE CAMERA SYMBOL. CAMERA TYPES ARE INDICATED IN TAG.
- 16. MOUNT ON TRACK OF OVERHEAD DOOR, 6" FROM TOP OF DOOR, UNLESS OVERHEAD DOOR IS A ROLL UP DOOR, THEN MOUNT PER MANUFACTURER'S INSTRUCTIONS. 17. INSTALL DEVICES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 18. DASHED LINE INDICATES EQUIPMENT CLEARANCES. ARROW INDICATES FRONT OF RACK. 19. SPEAKER TO BE MOUNTED IN HORIZONTAL POSITION. 20. MOUNTING HEIGHT IS TO BOTTOM OF DISPLAY.
- *TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED ON THIS SET OF DRAWINGS.

NG HEIGHT UNLESS OTHERWISE NOTED ON PLANS						
ESCRIPTION	HEIGHT	NOTES	SYMBOL	DESCRIPTION	HEIGHT	NOTES
IE CIRCUIT, HOME RUN TO PANEL				EQUIPMENT PANEL, SEE DRAWINGS	+72"	6.
CIRCUIT, HOME RUN TO PANEL				CABLE TRAY	AS NOTED	
CIRCUIT, HOME RUN TO PANEL				GROUND BUS BAR	+18"	6.
NDUIT RUN CONCEALED IN WALL OR CEILING			X	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
NDUIT RUN CONCEALED IN FLOOR OR GROUND			$\langle \mathbf{X} \rangle$	EQUIPMENT NUMBER		
NDUIT UP			X	ARCHITECTURAL ROOM NUMBER		
NDUIT DOWN				DEVICE / EQUIPMENT (TEXT DESIGNATES TYPE) SEE		
NDUIT STUB LOCATION	CAP			DEVICE / EQUIPMENT (TEXT DESIGNATES TYPE) SEE		
NDUIT / CIRCUIT CONTINUATION	CONDUIT			SCHEDULE / LEGEND		
SYMBOLS						
	ABOVE					
	CEILING +18" OR				TO SUIT	2
PLEX RECEPTACLE SWITCH CONTROLLED	AS NOTED	2. 9.		MOTOR OUTLET	EQUIP.	2.
MPLEX RECEPTACLE	AS NOTED	2. 9.		PUSHBUTTON	+46"	2.
IPLEX RECEPTACLE	AS NOTED	2. 9. 11.		NON-FUSED DISCONNECT SWITCH	+60"	5. 6.
IPLEX RECEPTACLE		9.	F	FUSED DISCONNECT SWITCH	+60"	5. 6.
A GFCI CIRCUIT BREAKER PROTECTED CEPTACLE		13.	В	BREAKER DISCONNECT SWITCH	+60"	5. 6.
EATHERPROOF RECEPTACLE	+24" OR AS NOTED	2. 9.	\$	SINGLE POLE SWITCH	+46"	2.4.
OUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.	\$⊤	MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT	+46"	2.
PLEX RECEPTACLE EMERGENCY POWER (RED)	+18" OR	2. 9. 11.		MAGNETIC STARTER	+60"	6. 7.
	+18" OR	2 9 11		MAGNETIC STARTER / DISCONNECT COMBINATION	+60"	6.7
	AS NOTED +18" OR	2.0.			+66"	6.7.
COND FAULT INTERROPTER FOURPLEX RECEPT	AS NOTED	2. 9.	VFD	VARIABLE FREQUENCY DRIVE	+00	0.
					ABOVE	
ILING LIGHT FIXTURE	CEILING	1.	(PP)			SPEC.
ALL LIGHT FIXTURE	AS NOTED	1.	(RC) X	(SUBSCRIPT INDICATES NUMBER OF RELAYS)	CEILING	SEE DIAGRAM, SPEC.
CESSED DOWNLIGHT FIXTURE	CEILING	1.	EP	EMERGENCY LIGHTING CONTROL UNIT	ABOVE CEILING	SEE DIAGRAM, SPEC.
CESSED WALL-WASH DOWNLIGHT FIXTURE	CEILING	1.	\$ ³	THREE-WAY SWITCH	+46"	2.4.
GHT FIXTURE	AS NOTED	1.	\$ ⁴	FOUR-WAY SWITCH	+46"	2.4.
RESS LIGHT FIXTURE	AS NOTED	1.	\$ ^K	KEY OPERATED SWITCH	+46"	2. 4.
REA LIGHT POLE AND FIXTURE	CONCRETE	1. 14. SEE DIAGRAM	, ↓ ↓ ↓	SWITCH WITH PILOT LIGHT	+46"	2.4.
	BASE CONCRETE	1 14 SEE DIAGRAM	↓ ◆	VARIABI E INTENSITY SWITCH	+46"	2 4
	BASE		↓ ↓		+46"	2.4
		1.			+40	2. 4.
GRADE LIGHT FIXTURE	BASE	1.		MOMENTARY CONTACT SWITCH	+40	2.4.
OOD OR TRACK FIXTURE	AS NOTED	1.	X	CONFIGURATION & CONTROL SEQUENCE)	+46"	DIAGRAM, SPEC.
EILING / WALL MOUNTED EXIT LIGHT	CEILING/ AS NOTED	1. 3. 8.		(PROVIDE WITH ALL PP AND ROOM CONTROLLERS)	CEILING	SEE DIAGRAM, SPEC.
IERGENCY LIGHT FIXTURE	AS NOTED	1.	H	DUAL TECH. WALL MOUNTED OCCUPANCY SENSOR (SUBSCIPT D = DIMMING AND DAYLIGHT CONTROL)	+46"	2. 4. SEE DIAGRAM, SPEC.
MBO EXIT / EMERGENCY LIGHT FIXTURE	AS NOTED	1.	P	PHOTO-ELECTRIC CONTROL (LOCATE ON ROOF, FACE NORTH)	AS NOTED	MOUNT AS PER MFR.
IE CLOCK	+60"	2.		DIGITAL DAYLIGHT SENSOR	CEILING	SEE DIAGRAM, SPEC.
DLATED GROUND RECEPTACLE	+18" OR AS NOTED	2. 9.	J	PLUGMOLD	+46" OR AS NOTED	2. SEE SPEC.
MPER-PROOF RECEPTACLE	+18" OR	2. 9.	(DP)	FLAT PANEL DISPLAY WALL BOX TVSS RECEPT.,	AS NOTED	SEE DIAGRAM,
IPLEX RECEPTACLE WITH USB OUTLET	+18" OR	2. 9.	(CP)	CEILING PROJECTION SYSTEM CEILING BOX	ABOVE	SEE DIAGRAM,
ONTROLLED DUPLEX RECEPTACLE	+18" OR	2. 9.		DOORBELL CHIME	+90"	2.
	+18" OR	2 9 11	FB		EL OOR	SEE DIAGRAM,
	AS NOTED +18" OR	2. 0. 11.				SPEC. SEE DIAGRAM,
	AS NOTED +18" OR	2. 9.			FLOOR	SPEC.
SS PROTECTED RECEPTACLE	AS NOTED +18" OR	2. 9.		PANELBOARD	+72	6.
ECIAL PURPOSE OUTLET	AS NOTED	2. 10. W/ CAP.		MAIN DISTRIBUTION PANEL		
DRD DROP		SEE DIAGRAM		TELEPHONE DEMARCATION BOARD		
DRD REEL		SEE DIAGRAM	ĊĹĠ	EQUIPMENT CEILING RACK	CEILING	
MBSTONE RECEPTACLE				EQUIPMENT 4-POST RACK / CABINET	AS NOTED	18. SEE SPEC.
WER POLE				EQUIPMENT 2-POST RACK	AS NOTED	18. SEE SPEC.
NGLE / DUAL PORT ELECTRICAL VEHICLE CHARGER				UTILITY METER / CT CABINET	+72"	6.
JRVEILLANCE CAMERA - SEE CAMERA SURVEILLANCE TYPE	AS NOTED	9. 10. 12.	DH	MAGNETIC DOOR HOLD OPENER	AS NOTED	8. 12.
WORK VIDEO RECORDER / SERVER		12.	ES	ELECTRIFIED DOOR STRIKE	DOOR JAMB	8. 12.
ESS CONTROL DOOR / WINDOW SWITCH / CONTACT	DOOR	12.		INTRUSION DETECTION DOOR / WINDOW CONTACT	DOOR JAMB	12.
CIALIZED SWITCH / CONTACT	JAMB	12	FI			8 12
RAGE DOOR, ROOF ACCESS DOOR / HATCH) DOOR RELEASE, LD=LOCKDOWN, PE=PUSH TO EXIT,		12.				9.12
DURESS / PANIC: RANSMITTER, R=RECEIVER, H=HARDWIRED		12.				0. 12.
			< <u>EC</u> >	ELECTRIFIED EXIT RIM DEVICE (CRASH BAR)		8. 12.
ID - WALL MOUNTED, DASHED = CEILING		12.	CR	ACCESS CONTROL CREDENTIAL CARD READER	+46"	1. 12.
55 BREAK DETECTOR: ID = WALL MOUNTED, DASHED = CEILING		12.	BR	ACCESS CONTROL BIOMETRIC READER	+46"	1. 12.
RUSION DETECTION ALARM SIREN AND/OR STROBE		12.	KS	KEY OVERRIDE SWITCH	+46"	1. 12.
RUSION DETECTION POP-IT MODULE		12.	ICR	INTEGRATED LOCKSET WITH CREDENTIAL CARD READER		8. 12.
RUSION DETECTION KEYPAD (ARM/DISARM)		12.	KCR	ACCESS CONTROL CREDENTIAL CARD READER WITH KEYPAD	+46"	1. 12.
		12.	WS	SECURITY WORKSTATION		12.
		8. 12		ACCESS CONTROL PANEL		12
KE & C/O DETECTOR COMBO:		12				12
ID = WALL MOUNTED, DASHED = CEILING KE & HEAT DETECTOR COMBO:		12.				12.
ID = WALL MOUNTED, DASHED = CEILING		12.	SEC'			12.
GHTING FIXTURES		POWER DEVICES	3			
GHTING DEVICES				SECURITY		
WER EQUIPMENT		FIRE ALARM				

CONDUIT

ABBREVIATIONS INDEX

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
#	NUMBER	MH	MANHOLE
AC	ALTERNATING CURRENT	MIC	MICROPHONE
A.F.F.	ABOVE FINISH FLOOR	MIN	MINIMUM
AIC	AMPS INTERRUPTING CAPACITY	MTG	MOUNTING
AM	AMPS METER	MTR	MOTOR
AMP	AMPERE	N/A	NOT APPLICABLE
ANN	ANNUNCIATOR	NC	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
AUX	AUXILIARY	NEMA	NATIONAL ELECT. MANUFAC. ASSOC.
AWG	AMERICAN WIRE GAUGE	NFPA	NATIONAL FIRE PROTECTION ASSOC.
BC	BARE COPPER	N.I.C.	NOT IN CONTRACT
BFG	BELOW FINISH GRADE	NO	NORMALLY OPENED
С	CONDUIT	NTS	NOT TO SCALE
CAB	CABINET	OS & Y	OUTSIDE SCREW & YOKE
CATB	COMMUNITY ANTENNA TELEVISION	PB	PUSHBUTTON
CATV	CABLE TELEVISION	PF	POWER FACTOR
CKT	CIRCUIT	PFR	PHASE FAILURE RELAY
CLG	CEILING	PNL	PANEL
CNTR	CONTRACTOR	PT	POTENTIAL TRANSFORMER
C.O.	CONDUIT ONLY	PVC	POLYVINYL CHLORIDE CONDUIT
CRT		(R)	RELOCATE
СТ		BECEP	BECEPTACIE
	COPPER	BEO	REQUIREMENT
		RLA	
DB		BMP	
		RMS	
	DRAWING	SE SE	
		<u> </u>	
		SWPD	
		SWGD	
	FOOTCANDLE		
	GROUND FAULT INTERRUPTER		
GRC		UG	
	HORSE POWER	UPS	
HZ		V	
		VA/R	VOLT-AMPS/REACTIVE
IG	ISOLATED GROUND	VM	VOLIMETER
IMC		W	WATTS
IN	INCH	W/	WITH
J-BOX	JUNCTION BOX	WH	WATTHOUR METER
KV	KILOVOLT	W/O	WITHOUT
KVA	KILOVOLT AMPERES	WP	WEATHERPROOF
KVAR	KILOVARS	XFMR	TRANSFORMER
KW	KILOWATT	XFMR SW	TRANSFER SWITCH
LRA	LOCKED ROTOR AMPS	XP	EXPLOSION PROOF
LTG	LIGHTING	1P	SINGLE-PHASE
MNF	MANUFACTURER	2P	TWO-POLE
MAX	MAXIMUM	3P	THREE-POLE
MB	MAIN BUS	4P	FOUR-POLE
MCC	MOTOR CONTROL CENTER	Ø	PHASE
МСМ	1000 CIRCULAR MILLS		

SHEET INDEX

E001	ELECTRICAL SYMBOLS AND NOTES	
E002	ELECTRICAL SCHEDULES	
E060		
E080		
EU81	PANELBOARD SCHEDULES	
E100	OVERALL ELECTRICAL PLAN	
E1.111	SHOP ADDITION DEMOLITION FLOOR PLAN	
E1.112	SHOP ADD. DEMOLITION FLOOR PLAN ALT. #2	
E1.211	SHOP ADDITION LIGHTING PLAN	
E1.212	SHOP ADDITION LIGHTING PLAN ALT. #2	
E1.311	SHOP ADDITION POWER PLAN	
⊏1 /11		
E1.411	SHOP ADDITION MECHANICAL ROOF PLAN	
L1.712		
E1.511	SHOP ADDITION SYSTEMS PLAN	
E2.111	WRESTLING ADDITION DEMOLITION FLOOR PLAN ALT- #1	
E2.112	WRESTLING DEMOLITION FLOOR PLAN ALT - #3	
⊑2 211		
E2.211	WRESTLING ADDITION LIGHTING PLAN ALT #1	
E2.311	WRESTLING ADDITION POWER FLOOR PLAN ALT - #1	
E2.411	WRESTLING ADDITION MECHANICAL PLAN	
E2.511	WRESTLING ADDITION SYSTEMS PLAN	
T001		
1001		
T080	AUDIOVISUAL SIGNAL ELOW DIAGRAMS	
1000		
T1.211	SHOP ADDITION INTERCOM PLAN	
T2.211	WRESTLING ADDITION INTERCOM PLAN	

GENERAL NOTES

- CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED
- AROUND ALL ELECTRICAL EQUIPMENT. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC) OF ALL EQUIPMENT FURNISHED UNDER ALL DIVISIONS, INCLUDING ALL EXISTING EQUIPMENT TO BE RE-USED.
- REVIEW ALL SHOP DRAWINGS AND EXISTING EQUIPMENT BEFORE BEGINNING ROUGH-IN.
- SEE SECTION 265100 (16510) OF THE SPECIFICATION FOR REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
- SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
- 5. SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS. FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
- THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
- 0. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
- 1. CONTRACTOR SHALL VERIFY FURNITURE LAYOUT PRIOR TO ANY FLOORBOX OR POKE-THRU INSTALLATION. COORDINATE EXACT LOCATION OF FLOOR BOX OR POKE-THRU WITH OWNER AND FURNITURE PROVIDER PRIOR
- TO ROUGH-IN. 2. CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 115' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH CONDUCTORS PER TABLE BELOW.

20 AMP MINIMUM BRANCH CIRCUIT CONDUCTOR SIZING								
MAXIMUM LENGTH	BRANCH CIRCUIT VOLTAGE							
CONDUCTOR LENGTH (FT)	120 VOLT	277 VOLT						
<70	MIN. #12 AWG	MIN. #12 AWG						
70 - 115	MIN. #10 AWG	MIN. #12 AWG						
115 - 170	MIN. #8 AWG	MIN. #10 AWG						
170 - 270	MIN. #6 AWG	MIN. #8 AWG						
271 - 380	NOTE B	MIN. #8 AWG						
>380	NOTE B	NOTE B						
	•							

A. THESE ARE BASED ON MAXIMUM LENGTH OF CIRCUIT.

- B. PERFORM VOLTAGE DROP CALCULATIONS AND PROVIDE CONDUCTOR SIZE TO KEEP BRANCH CIRCUIT VOLTAGE DROP LESS THAN 3% WITH A 15 AMP LOAD. C. CONTRACTOR SHALL ENSURE THAT THE INSTALLATION OF EACH BRANCH CIRCUIT STAYS WITHIN 3% VOLTAGE DROP FOR A 15 AMP LOAD. IF NECESSARY, CONTRACTOR SHALL
- INCREASE WIRE AND CONDUIT SIZE TO MEET THE STANDARD AT NO ADDITIONAL COST TO OWNER.
- 3. ALL CONDUIT SHALL BE INSTALLED IN STRAIGHT LINES PARALLEL TO, OR AT RIGHT ANGLES TO, THE STRUCTURE OR ADJACENT BUILDING ELEMENTS. SEPARATIONS BETWEEN CONDUITS AND FASTENINGS OF CONDUITS SHALL BE NEAT AND CONSISTENT. CONDUIT SHALL BE INSTALLED AS TIGHT TO THE BOTTOM OF STRUCTURAL ELEMENTS WHEN PARALLEL TO JOISTS AS CODE WILL ALLOW. OVERALL INSTALLATION SHALL BE ACCOMPLISHED IN AN AESTHETIC AND WORKMANLIKE MANNER. NO CONDUITS SHALL BE ALLOWED TO RUN PERPENDICULAR TO THE BOTTOM CHORD OF THE JOISTS.
- 4. DIVISION 26 SHALL VISIT SITE PRIOR TO BIDDING. BIDS SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS. FIELD VERIFIES ALL ELECTRICAL EQUIPMENT. BIDDERS SHALL EXAMINE THE SITE AND THE COMPLETE SET OF PLANS AND SPECIFICATIONS COVERING THE ENTIRE PROJECT. THEY SHALL BECOME FULLY CONVERSANT WITH THE TYPE OF GENERAL CONSTRUCTION AS WELL AS ALL PERTINENT FACTS AFFECTING THE COST OF CARRYING OUT THE WORK THEY WILL CONTRACT TO PERFORM.
- . CAREFULLY REVIEW THE ENTIRE DRAWING PACKAGE PRIOR TO PROVIDING BID. INCLUDING THE ARCHITECTURAL AND MECHANICAL DRAWINGS. NOT REVIEWING THE ENTIRE SET IS NOT ACCEPTABLE.
- 16. ELECTRICAL CONTRACTOR SHALL COORDINATE PROJECT PHASING WITH GENERAL CONTRACTOR BID AND PERFORM RESPONSIBILITIES FOR THIS PROJECT TO GENERAL CONTRACTOR EXPECTATIONS.
- 17. COORDINATE ELECTRICAL DEMOLITION WITH ARCHITECTURAL DRAWINGS AND GENERAL CONTRACTOR.
- 18. CLOSELY COORDINATE ANY REQUIRED POWER SHUTDOWNS WITH HEAD CUSTODIAN AND OWNER. 19. WHERE JOB CONDITIONS REQUIRE CHANGES FROM THE CONTRACT DOCUMENTS THAT DO NOT CHANGE THE SCOPE OF INSTALLATION OR NATURE OF WORK REQUIRED, THE CONTRACTOR WILL MAKE SUCH CHANGES WITHOUT ADDITIONAL COST TO THE OWNER, NO OTHER CHANGES MAY BE MADE WITHOUT WRITTEN PERMISSION OF THE OWNER.
- 20. SEQUENCE, COORDINATE AND INTEGRATE INSTALLATIONS OF ELECTRICAL MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF THE WORK, GIVE PARTICULAR ATTENTION TO LARGE EQUIPMENT REQUIRING POSITIONING PRIOR TO CLOSING IN THE BUILDING. COORDINATE THE CUTTING AND PATCHING OF BUILDING COMPONENTS TO ACCOMMODATE INSTALLATION OF ELECTRICAL EQUIPMENT AND MATERIALS.
- 21. DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC. 22. DISCONNECT AND RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC, REQUIRED FOR PROPER
- COMPLETION OF THE WORK. 23. CONTRACTOR MUST CONCEAL ALL RACEWAYS THROUGHOUT THE PROJECT, SURFACE MOUNT RACEWAY IS
- UNACCEPTABLE EXCEPT WHERE THE USE OF PAINTED SURFACE METAL RACEWAYS (EMT) IS APPROVED SOLELY BY THE ARCHITECT. PAINT TO MATCH SURROUNDING SURFACE. 24. ALL CONCRETE CUT AND PATCHWORK REQUIRED FOR FLOOR BOXES INSTALLATION AND/OR RELOCATION OF
- ELECTRICAL DEVICES AND PANELS THAT REQUIRE WORK WITHIN THE FLOORS SHALL BE DONE BY AN ELECTRICAL CONTRACTOR, ALL CORE, CUTTING FOR NEW SERVICE SHALL ALSO BE COVERED UNDER ELECTRICAL CONTRACTORS REQUIRED WORK. 25. CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE OF ALL WASTE, SURPLUS MATERIALS, RUBBISH,
- OR DEBRIS WHICH IS CAUSED BY HIS EMPLOYEES OR RESULTING FROM HIS WORK, AFTER ALL EQUIPMENT AND DEVICES HAVE BEEN INSTALLED, REMOVE ALL LABELS, STICKERS, STAINS, TEMPORARY COVERS, ETC. IDENTIFICATION PLATES ON ALL EQUIPMENT.
- 26. IT IS THE INTENT THAT THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT AND THAT ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NECESSARY TO FULLY COMPLETE THE WORK SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR.
- 7. PROVIDE GFC CIRCUIT BREAKERS SERVING RECEPTACLES PROVIDING POWER TO DRINKING FOUNTAINS, REFRIGERATORS, VENDING MACHINES, DISPOSALS AND WASHING MACHINES.
- 28. PROVIDE CONDUIT FROM DEVICE TO DEVICE IN OPEN AND/OR EXPOSED CEILINGS. CEILINGS WITH CLOUDS ARE CONSIDERED OPEN/EXPOSED CEILINGS, NO EXPOSED CABLES SHALL BE SEEN FROM BELOW.
- 29. PROVIDE WEATHERPROOF, NEMA 3R RATED EQUIPMENT FOR ALL EXTERIOR APPLICATIONS. 30. CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
- I. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES ARE REQUIRED
- AROUND ALL ELECTRICAL EQUIPMENT. 2. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC) OF ALL EQUIPMENTS FURNISHED UNDER ALL DIVISIONS. REVIEW ALL SHOP DRAWINGS BEFORE BEGINNING ROUGH-IN.
- 33. SEE SECTION 265100 (16510) OF THE SPECIFICATION FOR REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEÌLING CONTRACTORS.
- 34. SEE APPLICABLE SHOP DRAWINGS FOR ROUGH-IN LOCATION OF ALL EQUIPMENT. WIRING DEVICES, ETC, WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACKSPLASH EXCEPT THOSE SERVING UNDER-COUNTER EQUIPMENT.
- 35. FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT. 36. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL
- BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS-THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS. 7. CONTRACTOR SHALL VERIFY FURNITURE LAYOUT PRIOR TO ANY FLOORBOX OR POKE-THRU INSTALLATION,
- COORDINATE EXACT LOCATION OF FLOOR BOX OR POKE-THRU WITH OWNER AND FURNITURE PROVIDER PRIOR TO ROUGH-IN. 38. ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS
- ADJACENT TO OPENINGS, COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR. 39. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED
- MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED. AT THE COMPLETION OF THE PROJECT, ALL SPARE CONDUITS FOR FUTURE USE. 40. ALL PREMISES WIRING (SYSTEMS); INTERIOR AND EXTERIOR WIRING, INCLUDING POWER, LIGHTING, CONTROL,
- AND SIGNAL CIRCUIT WIRING TOGETHER WITH ALL THEIR ASSOCIATED HARDWARE, FITTINGS, AND WIRING DEVICES, BOTH PERMANENTLY AND TEMPORARILY INSTALLED MUST BE LABELED WITH THE APPROPRIATE STANDARDS OR PERFORMANCES AS SPECIFIED HEREIN. INTEGRAL SYSTEM WIRING, WITH THE EXCEPTION OF SPECIFIC TIE-IN POINTS, MUST BE CONTAINED WITHIN ITS OWN EQUIPMENT APPARATUSES E.G. SECURITY AND FIRE ALARM WIRING SHALL NOT SHARE OR RUN THROUGH THE SAME CABINET/JUNCTION BOX.
- 1. CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 115' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH CONDUCTORS PER TABLE BELOW.











DATE REVISION

SCHO(EDUCA¹ jn O ∄ ΗM

ELECTRICAL SYMBOLS AND NOTES

E001

	CONNI	ECTION
	1. NON 2. FUS 3. BRE 4. MAN 5. MAG 6. MAG 9. VAR 10. RE 11. DIF 12. RE 13. TW 14. SO	I-FUSE ED DIS AKER I IUAL S' SNETIC SNETIC SNETIC IABLE I DUCEE RECT C CEPTA O-SPE LID ST
UNIT	#	C
AG	1	
EF	1	
EF	2	
EF	3	
EH	1	EL
EH	2	EL
GUH	1	GA
MAU	1	
	<u> </u>	<u>п</u>
PRF	1	P.
RT	1	
SFU	1	SM
0.0		

C

В

EQUIPMENT SCHEDULE

NECTION TYPE NOTES:

NON-FUSED DISCONNECT SWITCH FUSED DISCONNECT SWITCH BREAKER IN ENCLOSURE MANUAL STARTER WITH THERMAL OVERLOAD MAGNETIC STARTER/MON-FUSED DISCONNECT COMBINATION MAGNETIC STARTER/FUSED DISCONNECT COMBINATION MAGNETIC STARTER/FUSED DISCONNECT COMBINATION MAGNETIC STARTER/FUSED DISCONNECT COMBINATION MAGNETIC STARTER/FUSED DISCONNECT COMBINATION VARIABLE FREQUENCY DRIVE . REDUCED VOLTAGE STARTER . DIRECT CONNECTION . RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC. . TWO-SPEED STARTER. COORDINATE WITH MOTOR TYPE . SOLID STATE SOFT-STARTER

RESPONSIBILITY LEGEND: A. FURNISHED, INSTALLED AND CONNECTED UNDER DIVISION 26(16) B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION. REQUIRED CONNECTION UNDER DIVISION 26(16) C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 26(16) D. FURNISHED, INSTALLED AND CONNECTED UNDER ANOTHER DIVISION _____

CB = CIRCUIT BREAKER

NOTE 1: PER 250.122(A), EQUIPMENT GROUND IS NOT REQUIRED TO BE LARGER THAN THE PHASE CONDUCTOR NOTE 2: OVERCURRENT PROTECTION DEVICE (OCPD) SHOWN IS LOCATED AT POWER PANEL. ALL FUSING TO BE SIZED IN ACCORDANCE WITH FUSE MFR RECOMMENDATION FOR MOTOR NAME PLATE RATING. NOTE 3: ALL EQUIPMENT TO BE RATED FOR THE ENVIRONMENT FOR WHICH IT IS INSTALLED.

	ELECTRICAL EQUIPMENT INFORMATION							WIRE			OCPD		/FD ES)			
DESCRIPTION	ЧН	FLA	MCA	VA	VOLTAGE	PHASE	JLL LOAD AMPS	CONDUIT SIZE	SETS	ατγ	SIZE	EQ. GROUND	ТҮРЕ	AMPS	TARTER/ DISC/ V THER (SEE NOT	REMARKS
	0.00	3 4	0.4	0.74	120.1/	1	Ľ	3///"	1	2	12	12	CB	15 Δ		
	0.00				120 V	1	5.0 A	2/4	1	2	12	12	CB	15 A	4 A 4 A	
	0.25				120 V	1	5.0 A	2/4	1	2	12	12		15 A	4 A	
	0.25				120 V	1	13.8 A	3/4	1	2	12	12	CB	25 A	4 A 1 A	
	0.75				208 \/	1	13.0 A	3/4	1	2	12	12	CB	25 Λ 15 Δ	1 Δ	
	0.00	0 4	0 A	3000 VA	208 V	1	14.4 A	3/4"	1	2	12	12	CB	25 A	1 Δ	
GAS FIRED UNIT HEATER	0.50	0 A	0 A	0 VA	120 V	1	984	3/4"	1	2	12	12	CB	15 A	4 A	
MAKE-UP AIR UNIT	5.00	0 A	0 A	0 VA	480 V	3	7.6 A	3/4"	1	3	12	12	CB	15 A	2 A	
MAKE-UP AIR UNIT	0.50	0 A	0 A	0 VA	480 V	3	1.1 A	3/4"	1	3	12	12	CB	15 A	2 A	
PAINT BOOTH CTR PNL	0.00	15 A	0 A	0 VA	120 V	1	15.0 A	3/4"	1	2	12	12	СВ	25 A	2 A	
PAINT BOOTH FAN	2.00	0 A	0 A	0 VA	480 V	3	3.4 A	3/4"	1	3	12	12	СВ	15 A	2 A	
ROOFTOP UNIT	0.00	0 A	24.2 A	0 VA	480 V	3	19.4 A	3/4"	1	3	10	10	СВ	30 A	2 A	
SMOKE FIL TRATION UNIT	5.00	0 A	0 A	0 VA	480 V	3	7.6 A	3/4"	1	3	12	12	СВ	15 A	7 A	

		LIGH	T FIXTURE	SCHEDULE							
			LIGHT FIXTURE ABBREVIATION	SCHEDULE			PROJECT	MANAGER: DAREN	1 OAKESON		
A.F.F. WALL@CL CCBA	ABOVE FINISH FLOOR @CLG WALL MOUNT AT CORNER OF WALL AND CEILING CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT SFBA STANDARD FINISH AS SELECTED BY THE ARCHITECT										
			LIGHT FIXTURE GENERAL	NOTES							
1.	 REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES AND, CONFIRM CEILING TYPES WITH LIGHT FIXTURE TRIMS. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO BIDDING. 										
2.	REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIC	ONS OF LIGHT FIXT	URES. BRING ALL DISCREPENCIES TO	O THE ATTENTION OF THE ARCHITEC	CT PRIOR TO) BIDDING.					
3.	REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, LED DRIVE	ERS, AND LAMP RE	QUIREMENTS AND ACCEPTABLE MAN	UFACTURERS.							
4.	CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARI	E WITH DEPTHS SH	HOWN ON SHOP DRAWINGS. BRING A	L POTENTIAL CONFLICT AREAS TO	THE ATTEN	TION OF THE ARCH	ITECT AND ELECT	RICAL ENGINEER PI	RIOR TO RELE/	ASE.	
5.	REFER TO LIGHTING PLANS FOR ALL LINEAR FIXTURE LENGTHS. THE CATALOG N FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH.	NUMBER IS BASED	ON THE FIXTURE SPECIFIED AND MA	Y NOT REFLECT THE QUANTITY OR C	OVERALL LE	NGTH OF LINEAR F	IXTURES REQUIRE	D. CONTRACTOR T	O NOTE THAT	VARIOUS	
6.	REFER TO LIGHTING PLANS FOR ALL UNDERCABINET FIXTURE LENGTHS. THE CA NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OV	ATALOG NUMBER IS /ERALL RUN LENG ⁻	S BASED ON THE FIXTURE SPECIFIED TH OR TO FIT WITHIN THE MILLWORK.	AND MAY NOT REFLECT THE QUANT COORDINATE FIXTURE LAYOUT WIT	fity or ove Th Millwor	ERALL LENGTH OF T RK SHOP DRAWING	THE UNDERCABINE S PRIOR TO LIGHTI	ET FIXTURES REQU NG SUBMITTALS.	IRED. CONTRA	CTOR TO	
7.	WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND TH	IE DESCRIPTION, N	IOTIFY THE ELECTRICAL ENGINEER A	ND/OR LIGHTING DESIGNER.							
8.	PRIOR APPROVALS ARE REQUIRED BEFORE BIDDING THE PROJECT AND SHALL F	BE SUBMITTED TO	THE ELECTRICAL ENGINEER'S OFFIC	E AT LEAST (8) EIGHT WORKING DAY	'S BEFORE	THE BID. PRIOR API	PROVALS RECEIVE	D AFTER THIS TIME	E PERIOD SHAL	LBE	
9.	REFER TO SPECIFICATIONS 20 0500, 26 5100 & 26 5600 (16001, 16510 & 16551).										
10.	10. VALUE ENGINEERING CONDUCTED WITHOUT THE DESIGN TEAM IE; ARCHITECT, ENGINEER & LIGHTING CONSULTANT/DESIGNER WILL NOT BE ALLOWED, REVIEWED OR APPROVED.										
TYPE	DESCRIPTION	MFR.	CATA	LOG #	VOLTS	TOTAL WATTS	LAMP TYPE	DELIVERED LUMENS	COLOR TEMP	CRI	
G24	2'X4' RECESSED LED LAY-IN LUMINAIRE; RECESSED INTO ACCESSIBLE ARCHITECTURAL CEILING; EASY TO CLEAN; 60,000 HOUR (L73); 5 YR. WARRANTY; 0-10 DIMMING; FIELD-SELECTABLE LUMEN OUTPUT (MEDIUM, 4000K)	METALUX	24FPS	L2SCT3	277 V	56 VA	LED	4,620	4000 K	80+	
G24E	2'X4' RECESSED LED LAY-IN LUMINAIRE; RECESSED INTO ACCESSIBLE ARCHITECTURAL CEILING; EASY TO CLEAN; 60,000 HOUR (L73); 5 YR. WARRANTY; 0-10 DIMMING; FIELD-SELECTABLE LUMEN OUTPUT (MEDIUM, 4000K)	METALUX	24FPSL2S	CT3-EL10W	277 V	56 VA	LED	4,620	4000 K	80+	
LW8H	8' WAVESTREAM LINEAR PENDANT LED LUMINAIRE; WAVESTREAM W/ ACCU-AIM OPTICS; 60,000 HOUR (L80); 5 YR WARRANTY; 0-10 DIMMING; WITH 8% UPLIGHT; PROVIDE ALL ASSEMBLY AND MOUNTING MATERIALS REQUIRED FOR A FULL INSTALLATION; COORDINATE EXACT CEILING SYSTEM AND SUSPENSION HEIGHT WITH ARCHITECT	METALUX	8WSL-LD2-150-SPS-UI A-	PL8-UNV-L840-CD-1-CC XX	277 V	149 VA	LED	15,000	4000 K	80+	
LW8HE	8' WAVESTREAM LINEAR PENDANT LED LUMINAIRE; WAVESTREAM W/ ACCU-AIM OPTICS; 60,000 HOUR (L80); 5 YR WARRANTY; 0-10 DIMMING; WITH 8% UPLIGHT; PROVIDE ALL ASSEMBLY AND MOUNTING MATERIALS REQUIRED FOR A FULL INSTALLATION; COORDINATE EXACT CEILING SYSTEM AND SUSPENSION HEIGHT WITH ARCHITECT. EMERGENCY BATTERY BACKUP	METALUX	8WSL-LD2-150-SPS-UPL8- A-	UNV-EL14W-L840-CD-1-CC XX	277 V	149 VA	LED	15,000	4000 K	80+	
LW8M	8' WAVESTREAM LINEAR SURFACE MOUNTED LED LUMINAIRE; WAVESTREAM W/ ACCU-AIM OPTICS; 100,000 HOUR (L80); 5 YR WARRANTY; 0-10 DIMMING; PROVIDE ALL ASSEMBLY AND MOUNTING MATERIALS REQUIRED FOR A FULL INSTALLATION; COORDINATE EXACT CEILING SYSTEM WITH ARCHITECTURAL DRAWINGS	METALUX	8WSL-LD2-120-SF	RS-UNV-L840-CD-1	277 V	91 VA	LED	12,000	4000 K	80+	
LW8ME	8' WAVESTREAM LINEAR SURFACE MOUNTED LED LUMINAIRE; WAVESTREAM W/ ACCU-AIM OPTICS; 100,000 HOUR (L80); 5 YR WARRANTY; 0-10 DIMMING; PROVIDE ALL ASSEMBLY AND MOUNTING MATERIALS REQUIRED FOR A FULL INSTALLATION; COORDINATE EXACT CEILING SYSTEM WITH ARCHITECTURAL DRAWINGS. EMERGENCY BATTERY BACKUP	METALUX	8WSL-LD2-120-SRS-L	INV-EL14W-L840-CD-1	277 V	91 VA	LED	12,000	4000 K	80+	
OW1		LITHONIA	DSXW1-LED-20C-530-40K-T3	M-MVOLT-DDL-SCBA-EM-PC	277 V	35 VA	LED	4,315	4000 K	70	
S4	DEGREE BEAM ANGLE; DIE-CAST ALUMINUM HOUSING; PRECISION 120 DEGREE BEAM ANGLE; DIFFUSED LENS; 5 YR WARRANTY; 0-10 DIMMING; 100,000 HOUR (L70)	WILLIAMS	80-4-L53-8-	40-DIM-UNV	277 V	34 VA	LED	5,327	4000 K	80+	
S4P	SAFESITE LINEAR - LOW PROFILE, CHAIN HUNG; 7100 LUMENS, 60 WATTS, 100-277 VAC, COOL WHITE 5000K, DIFFUSED POLYCARBONATE LENS [CID2]	DIALIGHT	LPD3C4H2W-	LSENDCAPKIT	277 V	60 VA	LED	7,100	5000 K	80+	
S4PE	SAFESITE LINEAR - LOW PROFILE, CHAIN HUNG; 7100 LUMENS, 60 WATTS, 100-277 VAC, COOL WHITE 5000K, DIFFUSED POLYCARBONATE LENS [CID2]. EMERGENCY BATTERY BACKUP	DIALIGHT	LPD3C4H2W-LS	ENDCAPKIT-EM	277 V	60 VA	LED	7,100	5000 K	80+	
X1	UNIVERSAL EDGE-LIT EXIT SIGN; BRUSHED ALUMINUM HOUSING AND BLACK PLASTIC END-CAPS, WITH HIGH GRADE ACRYLIC PANEL; UNIVERSAL FACE, SINGLE, DOUBLE; UNIVERSAL MOUNTING, SURFACE, RECESSED OR END-MOUNT: AC ONLY	EMERGI-LITE	PA	G6	277 V	5 VA	LED			82	





DATE REVISION

	PROJECT FOR
H	THE SOUTH SANPETE SCHOOL
	DISTRICT BOARD OF EDUCATION
(1)	39 SOUTH MAIN MANTI, UTAH 84642

ELECTRICAL SCHEDULES

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ALUMINUM CONDUCTOR & O.C. PROT. FOR TRANSFORMER PRIMARY					ALUMINUM XHHW-2 CONDUCTOR & O.C. PROT. FOR TRANSFORMER SECONDARY							
TRANS KVA	O.C. PROT.	TYPE COND.*	GEC 1	MIN. Z%	O.C. PROT.	TYPE COND.*	COND. AMPS	SETS	CONDI QUAN.	UCTOR 3 SIZE	CONDUIT SIZE	BONDING 2
15	30	30	8 CU	3	60	T44-1	70	1	4	4 CU	1-1/2"	8 CU
30	50	36	8 CU	3	100	T41X-1	120	1	4	1/0	2"	8 CU
45	70	34	4 CU	3	175	T44X-1	180	1	4	4/0	2-1/2"	4 CU
75	125	32X	2 CU	3	225	T435-1	250	1	4	350	3"	1/0 AL
112.5	175	34X	2 CU	4	400	T425-2	410	2	4	250	3"	1/0 AL
150	300	350	2/0 CU	4	600	T450-2	620	2	4	500	4"	4/0 AL
225	400	375	2/0 CU	4	800	T440-3	810	3	4	400	4"	4/0 AL
300	600	350-2	3/0 CU	5	1200	T450-4	1240	4	4	500	4"	250 AL
500	800	340-3	3/0 CU	5	1600	T440-6	1620	6	4	400	4"	300 AL
750	1200	350-4	3/0 CU	5	3000	T450-10	3100	10	4	500	4"	750 AL
ALUMINUM CONDUCTOR & O.C. PROT. FOR TRANSFORMER PRIMARY				CONDUCTOR & O.C. PROT. FOR TRANSFORMER SECONDARY (200% NEUTRAL) 480-208/120								
FC	OR TRAN	ISFORME).C. Prot. R primar	Y		FO (20	R TRAN	SFORN JTRAL)	AER SEC ∆480	-208/120	′ ∀	
FC TRANS KVA	O.C. PROT.	TYPE COND.*	D.C. PROT. R PRIMAR	Y MIN. Z%	O.C. PROT.	FO (20 TYPE COND.*	COND R TRAN 0% NEU COND. AMPS	SFORN JTRAL)		CONDARY -208/120 UCTOR 3 SIZE		BONDING 2
FC TRANS KVA 15	O.C. PROT.	TYPE COND.*	0.C. PROT. R PRIMAR GEC 1 8 CU	Y MIN. 2% 3	0.C. PROT. 60	F0 (20 TYPE COND.*	COND R TRAN 0% NEU COND. AMPS 53	SFORN JTRAL) SETS	A COULT MER SEC A 480 CONDU QUAN. 5	CONDARY -208/120 UCTOR 3 SIZE 3 CU	CONDUIT SIZE 2"	BONDING 2 JUMPER 2 8 CU
FC TRANS KVA 15 30	O.C. PROT. 30 50	TYPE COND.* 30 36	0.C. PROT. R PRIMAR GEC 1 8 CU 6 CU	Y MIN. 2% 3 3	0.C. PROT. 60 100	F0 (20 TYPE COND.* (T53-1) (T52X-1)	COND R TRAN 0% NEU COND. AMPS 53 108	SFORM JTRAL) SETS 1 1	A 0.0.1 MER SEC	2001. CONDARY -208/120 UCTOR 3 SIZE 3 CU 2/0	CONDUIT SIZE 2" 2-1/2"	BONDING 2 JUMPER 2 8 CU 6 CU
FC TRANS KVA 15 30 45	O.C. PROT. 30 50 70	TYPE COND.* 30 36 34	0.C. PROT. R PRIMAR GEC 1 8 CU 6 CU 2 CU	Y MIN. 2% 3 3 3 3	0.C. PROT. 60 100 175	FO (20 TYPE COND.* (T53-1) (T52X-1) (T530-1)	COND R TRAN 0% NEU COND. AMPS 53 108 184	SFORM JTRAL) SETS 1 1 1	A CO.C. F MER SEC	2001. CONDARY -208/120 UCTOR (3) SIZE 3 CU 2/0 300	CONDUIT SIZE 2" 2-1/2" 3"	BONDING 2 JUMPER 2 8 CU 6 CU 1/0 AL
FC TRANS KVA 15 30 45 75	O.C. PROT. 30 50 70 125	TYPE COND.* 30 36 34 32X	0.C. PROT. R PRIMAR GEC 1 8 CU 6 CU 2 CU 2 CU	Y MIN. 2% 3 3 3 3 3	O.C. PROT. 60 100 175 225	FO (20) TYPE COND.* (T53-1) (T52X-1) (T530-1) (T550-1)	COND R TRAN 0% NEU COND. AMPS 53 108 184 248	UCTOR SFORM JTRAL) SETS 1 1 1 1	A CO.C. F MER SEC	Scondary -208/120 JUCTOR (3) SIZE 3 CU 2/0 300 500	CONDUIT SIZE 2" 2-1/2" 3" 4"	BONDING 2 JUMPER 2 8 CU 6 CU 1/0 AL 1/0 AL
FC TRANS KVA 15 30 45 75 112.5	O.C. PROT. 30 50 70 125 175	TYPE COND.* 30 36 34 32X 34X	0.C. PROT. R PRIMAR GEC 1 8 CU 6 CU 2 CU 2 CU 1/0 CU	Y MIN. Z% 3 3 3 3 3 4	O.C. PROT. 60 100 175 225 400	FO (20) TYPE COND.* (T53-1) (T52X-1) (T530-1) (T550-1) (T535-2)	COND R TRAN 0% NEU COND. AMPS 53 108 184 248 400	JUCTOR SFORM JTRAL) SETS 1 1 1 1 2	A CO.C. F MER SEC	PROT. CONDARY -208/120 JUCTOR (3) SIZE 3 CU 2/0 300 500 350	CONDUIT SIZE 2" 2-1/2" 3" 4" 3"	BONDING 2 JUMPER 2 8 CU 6 CU 1/0 AL 1/0 AL 3/0 AL
FC TRANS KVA 15 30 45 75 112.5 150	O.C. PROT. 30 50 70 125 175 300	TYPE COND.* 30 36 34 32X 34X 350	0.C. PROT. R PRIMAR GEC 1 8 CU 6 CU 2 CU 2 CU 1/0 CU 2/0 CU	Y MIN. 2% 3 3 3 3 3 4 4 4	O.C. PROT. 60 100 175 225 400 600	FO (20 TYPE COND.* (T53-1) (T52X-1) (T530-1) (T530-1) (T535-2) (T535-3)	COND R TRAN 0% NEU COND. AMPS 53 108 184 248 400 600	JUCTOR SFORM JTRAL) SETS 1 1 1 1 2 3	A CO.C. F MER SEC	PROT. CONDARY -208/120 JUCTOR (3) SIZE 3 CU 2/0 300 500 350 350	CONDUIT SIZE 2" 2.1/2" 3" 4" 3" 4"	BONDING 2 JUMPER 2 8 CU 6 CU 1/0 AL 1/0 AL 3/0 AL 4/0 AL
FC TRANS KVA 15 30 45 75 112.5 150 225	O.C. PROT. 30 50 70 125 175 300 400	TYPE COND.* 30 36 34 32X 34X 350 375	0.C. PROT. R PRIMAR GEC 1 8 CU 6 CU 2 CU 2 CU 1/0 CU 2/0 CU 2/0 CU	Y MIN. 2% 3 3 3 3 3 4 4 4 4 4	0.C. PROT. 60 100 175 225 400 600 800	FO (20 TYPE COND.* (T53-1) (T53-1) (T530-1) (T535-1) (T535-2) (T535-3) (T535-4)	COND R TRAN 0% NEU COND. AMPS 53 108 184 248 400 600 800	JUCTOR SFORM JTRAL) SETS 1 1 1 1 2 3 4	A CO.C. F MER SEC	PROT. CONDARY -208/120 JUCTOR (3) SIZE 3 CU 2/0 300 500 350 350 350	CONDUIT SIZE 2" 2-1/2" 3" 4" 3" 4" 4" 4"	BONDING 2 JUMPER 2 8 CU 6 CU 1/0 AL 1/0 AL 3/0 AL 4/0 AL 4/0 AL
FC TRANS KVA 15 30 45 75 112.5 150 225 300	O.C. PROT. 30 50 70 125 175 300 400 600	TYPE COND.* 30 36 34 32X 34X 350 375 350-2	0.C. PROT. R PRIMAR GEC 1 8 CU 6 CU 2 CU 2 CU 1/0 CU 2/0 CU 3/0 CU	Y MIN. Z% 3 3 3 3 4 4 4 4 5	0.C. PROT. 60 100 175 225 400 600 800 1200	FO (20 TYPE COND.* (T53-1) (T53-1) (T530-1) (T530-1) (T535-2) (T535-3) (T535-3) (T535-4) (T550-5)	COND R TRAN 0% NEU COND. AMPS 53 108 184 248 400 600 800 1240	JUCTOR SFORM JTRAL) SETS 1 1 1 1 2 3 4 5	A CO.C. F MER SEC	PROT. CONDARY -208/120 UCTOR ③ SIZE 3 CU 2/0 300 500 350 350 350 350 500	CONDUIT SIZE 2" 2-1/2" 3" 4" 3" 4" 4" 4" 4" 4" 4"	BONDING 2 JUMPER 2 8 CU 6 CU 1/0 AL 1/0 AL 3/0 AL 4/0 AL 4/0 AL 350 AL
FC TRANS KVA 15 30 45 75 112.5 150 225 300 500	O.C. PROT. 30 50 70 125 175 300 400 600 800	TYPE COND.* 30 36 34 32X 34X 350 375 350-2 340-3	0.C. PROT. R PRIMAR GEC 1 8 CU 6 CU 2 CU 2 CU 1/0 CU 2/0 CU 3/0 CU 3/0 CU	Y MIN. Z% 3 3 3 3 3 4 4 4 4 5 5 5	O.C. PROT. 60 100 175 225 400 600 800 1200 1600	FO (20 TYPE COND.* (T53-1) (T53-1) (T530-1) (T530-1) (T535-2) (T535-2) (T535-3) (T535-3) (T535-4) (T550-5) (T550-7)	COND R TRAN 0% NEU COND. AMPS 53 108 184 248 400 600 800 1240 1736	JUCTOR SFORM JTRAL) I SETS 1 1 1 1 1 2 3 4 5 7	ACOUCT F MER SEC ABO CONDI QUAN. 5 5 5 5 5 5 5 5 5 5 5 5 5	PROT. CONDARY -208/120 JUCTOR (3) SIZE 3 CU 2/0 300 500 350 350 350 500 500	CONDUIT SIZE 2" 2-1/2" 3" 4" 3" 4" 4" 4" 4" 4" 4" 4" 4" 4" 4" 4"	BONDING 2 JUMPER 2 8 CU 6 CU 1/0 AL 1/0 AL 3/0 AL 4/0 AL 4/0 AL 350 AL 500 AL
FC TRANS KVA 15 30 45 75 112.5 150 225 300 500 750	O.C. PROT. 30 50 70 125 175 300 400 600 800 1200	TYPE COND.* 30 36 34 32X 34X 350 375 350-2 340-3 350-4	0.C. PROT. R PRIMAR GEC 1 8 CU 6 CU 2 CU 2 CU 2/0 CU 2/0 CU 3/0 CU 3/0 CU 3/0 CU	Y MIN. Z% 3 3 3 3 3 4 4 4 4 5 5 5 5 5	O.C. PROT. 60 100 175 225 400 600 800 1200 1600 3000	FO (20 TYPE COND.* (T53-1) (T53-1) (T530-1) (T530-1) (T535-2) (T535-3) (T535-3) (T535-3) (T535-4) (T550-5) (T550-7) (T550-7) (T575-10)	COND R TRAN 0% NEU COND. AMPS 53 108 184 248 400 600 800 1240 1736 3080	UCTOR SFORM JTRAL) I 1 1 1 1 2 3 4 5 7 10	A CO.C. F AER SEC ABO CONDI QUAN. 5 5 5 5 5 5 5 5 5 5 5 5 5	PROT. CONDARY -208/120 JUCTOR (3) SIZE 3 CU 2/0 300 500 350 350 350 500 500 500 750	CONDUIT SIZE 2" 2-1/2" 3" 4" 3" 4" 4" 4" 4" 4" 4" 4"	BONDING 2 JUMPER 2 8 CU 6 CU 1/0 AL 1/0 AL 3/0 AL 4/0 AL 350 AL 500 AL 750 AL
FC TRANS KVA 15 30 45 75 112.5 150 225 300 500 750 * SEE SC	O.C. PROT. 30 50 70 125 175 300 400 600 800 1200 HEDULE FO	TYPE COND.* 30 36 34 32X 34X 350 375 350-2 340-3 350-4	0.C. PROT. R PRIMAR GEC 1 8 CU 6 CU 2 CU 2 CU 1/0 CU 2/0 CU 3/0 CU 3/0 CU 3/0 CU AND WIRE SI	Y MIN. Z% 3 3 3 3 3 4 4 4 4 5 5 5 5 5 2 ZE	O.C. PROT. 60 100 175 225 400 600 800 1200 1600 3000	FO (20) TYPE COND.* (T53-1) (T52X-1) (T52X-1) (T535-1) (T535-2) (T535-3) (T535-3) (T535-4) (T550-5) (T550-7) (T575-10)	COND R TRAN 0% NEU COND. AMPS 53 108 184 248 400 600 800 1240 1736 3080	UCTOR SFORM JTRAL) I I I I I I I 2 3 4 5 7 10	A CO.C. F AER SEC A80 QUAN. 5 5 5 5 5 5 5 5 5 5 5 5 5	PROT. CONDARY -208/120 JUCTOR (3) SIZE 3 CU 2/0 300 500 350 350 350 500 500 750	CONDUIT SIZE 2" 2-1/2" 3" 4" 4" 4" 4" 4" 4" 4" 4" 4"	BONDING 2 JUMPER 2 8 CU 6 CU 1/0 AL 1/0 AL 3/0 AL 4/0 AL 4/0 AL 350 AL 500 AL 750 AL

(1) GROUNDING ELECTRODE CONDUCTOR. (NEC 250.66) (2) SUPPLY SIDE BONDING JUMPER. (NEC 250.102 (C)(1))

(3) XHHW INSULATION.

SHEET KEYNOTES

- X1 EXISTING GROUNDING SYSTEM. MAINTAIN AND PRESERVE DURING REMODEL.
- X2 PROVIDE STEP DOWN DRY TYPE TRANSFORMER WITH TWO SETS OF MAIN LUGS, ONE FOR EACH PANELBOARD.
- X3 PANEL Y IS EXISTING TO BE REPLACED. PLEASE FIELD VERIFY EXISTING POWER DRAW FROM PANEL. IF PANEL IS LOADED WITH 150A OR MORE, WE WILL NEED TO UPSIZE THE POWER FEED. OTHERWISE, WE WILL REPLACE THE EXISTING PANEL WITH A NEW 225A PANEL AND REUSE THE FEEDERS. REFER TO THE POWER PLANS FOR MORE INFORMATION.

ALUMINUM CONDUCTOR & CONDUIT SCHEDULE									
		COND.	CONDU	JCTOR		EQ. GND COND.(AL)			
TYPE	AMP.	SIZE	QUAN.	SIZE	INSULATION				
31X	120	2"	3	1/0	XHHW-2	4			
41X	120	2"	4	1/0	XHHW-2	4			
< 51X >	96	2"	5*	1/0	XHHW-2	4			
32X	135	2"	3	2/0	XHHW-2	4			
42X	135	2"	4	2/0	XHHW-2	4			
52X	108	2"	5*	2/0	XHHW-2	4			
33X	155	2"	3	3/0	XHHW-2	4			
< 43X >	155	2"	4	3/0	XHHW-2	4			
53X	124	3"	5*	3/0	XHHW-2	4			
34X	180	2"	3	4/0	XHHW-2	4			
< 44X >	180	3"	4	4/0	XHHW-2	4			
< 54X >	144	3"	5*	4/0	XHHW-2	2			
325	205	2"	3	250	XHHW-2	2			
425	205	3"	4	250	XHHW-2	2			
525	164	3"	5*	250	XHHW-2	2			
330	230	3"	3	300	XHHW-2	2			
430	230	3"	4	300	XHHW-2	2			
530	184	3"	5*	300	XHHW-2	2			
335	250	3"	3	350	XHHW-2	2			
435	250	3"	4	350	XHHW-2	2			
535	200	3"	5*	350	XHHW-2	2			
340	270	3"	3	400	XHHW-2	2			
440	270	3"	4	400	XHHW-2	2			
540	216	3"	5*	400	XHHW-2	2			
350	310	4"	3	500	XHHW-2	1			
450	310	4"	4	500	XHHW-2	1			
550	248	4"	5*	500	XHHW-2	1			
375	385	4"	3	750	XHHW-2	1			
475	385	4"	4	750	XHHW-2	1			
575	308	4"	5*	750	XHHW-2	1			

ALUMINUM

C	ONDU	FOR	& CO	ONDU ALLE	L RUN	HEDU IS	LE	
TYPE	MAX. O.C.	COND.	SETS	COND	UCTOR	CONDUIT	EQ. GND.	
	PROT.	AMPS		QUAN.	SIZE	SIZE	COND.(AL)	
325-2	400	410	2	3	250	2-1/2"	2/0	
425-2	400	410	2	4	250	2-1/2"	2/0	
535-2	400	400	2	5*	350	3"	2/0	
350-2	600	620	2	3	500	3"	2/0	
450-2	600	620	2	4	500	3"	2/0	
535-3	600	600	3	5*	350	3"	2/0	
340-3	800	810	3	3	400	2-1/2"	3/0	
440-3	800	810	3	4	400	3"	3/0	
535-4	800	800	4	5*	350	4"	3/0	
375-3	1000	1155	3	3	750	4"	4/0	
475-3	1000	1155	3	4	750	4"	4/0	
535-5	1000	1000	5	5*	350	4"	4/0	
350-4	1200	1240	4	3	500	4"	250	
450-4	1200	1240	4	4	500	4"	250	
550-5	1200	1240	5	5*	500	4"	250	
340-6	1600	1620	6	3	400	4"	350	
440-6	1600	1620	6	4	400	4"	350	
550-7	1600	1736	7	5*	500	4"	350	
475-6	2000	2310	6	4	750	4"	400	
475-7	2500	2695	7	4	750	5"	600	
475-8	3000	3080	8	4	750	5"	600	
475-11	4000	4235	11	4	750	5"	750	

NOTES: IN PARALLEL RUNS SIZE GND. COND. IN ACCORDANCE WITH NEC PARA. 250-122.

GND. CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS * 200% NEUTRAL, DERATED TO 80% BASED ON NEC 310.15.B(5)(C)

** COPPER CONDUCTOR (XHHW)

PROVIDE COMPACT STRANDED ALUMINUM ASSOCIATION 8000 SERIES ALLOY CONDUCTORS.

PROVIDE TERMINATION FOR ALUMINUM ALLOY CONDUCTORS OF HYDRAULIC COMPRESSION TYPE ONLY, LISTED UNDER UL 486-B, MARKED "AL7CU" FOR 75

DEGREE RATED CIRCUITS. PROVIDE ALL ELECTRICAL EQUIPMENT WITH PROPER SIZING TO ACCOMMODATE ALUMINUM CONDUCTORS. COORDINATE WITH EQUIPMENT SUPPLIER.

COPPER CONDUCTOR & CONDUIT TYPE AMP. COND. CONDUCTOR SIZE QUAN. SIZE 20 30 3/4" 2 10 <u>30</u> 30 3/4" 3 10

48	40	1"	4	8
26	55	1"	2	6
36	55	1"	3	6
46	55	1"	4	6
24	70	1"	2	4
34	70	1-1/4"	3	4
44	70	1-1/4"	4	4
23	85	1-1/4"	2	3
33	85	1-1/4"	3	3
43	85	1-1/2"	4	3
32	95	1-1/2"	3	2
42	95	1-1/2"	4	2

S	CHEDU	JLE
<u> </u>	INSULATION	EQ. GND. COND.(CU)
	THHN THWN	10
	THHN THWN	8
	THHN	8
	THHN	8
	THHN	8
		8
		6
		6





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ONE-LINE DIAGRAM

E080

PANELBOARD SCHEDULE	PANELBOARD SCHEDULE	PANELBOARD SCHEDULE	
PANEL: Y TYPE: Type 1 VOLTS: 480/277 Y PHASE: 3 WIRES: 4 MOUNTING: SURFACE LOCATION: EXISTING WOOD SHOP 119 MAINS: MLO BUSSING: ALUMINUM FED FROM: SUBFEED LUGS AMP: 225 A DOOR-IN-DOOR ISO GROUND SVD SVD SPD SPD SPD	PANEL: LMS1 TYPE: Type 1 VOLTS: 120/208 Y PHASE: 3 WIRES: 4 MOUNTING: SURFACE LOCATION: WOOD SHOP ADDITION 125 MAINS: MCB BUSSING: ALUMINUM FED FROM: TL1 SUBFEED LUGS AMP: 400 A DOOR-IN-DOOR ISO GROUND 200% NEUTRAL SPD SPD	PANEL: LWS1 TYPE: Type 1 VOLTS: 120/208 Y PHASE: 3 WIRE MOUNTING: FLUSH LOCATION: METAL SHOP ADDITION 115 MAINS: MOUNS: MOUNTING: BUSSING: ALUMINUM FED FROM: TL1	
bit bit< bit< bit< bit<	BRANCH BREAKERS ITEM AMPS TYPE POLE NURE CIR: WIRE CIR: MIEM CIR: WIRE CIR: CIR: CIR: MIEM CIR: MIEM CIR: CIR: CIR: MIEM MIEM <th cols<="" td=""><td>BRANCH BREAKERS ITEM AMPS TYPE POLE SIZE CIR A B C A B C CIR VIRE POLE SIZE L-3, LATHE 20A 1 12 1 1600 500 500 6 1 1 1 GF 20A 1 DC-1, DUST COLLECTOR 25A 2 12 3 1500 1 1600 6 12 1 20A 1 PGC-1, PAINT BOTH CTR PNL 20A 1 12 9 3 1600 1 10 1 20A TSA 1 PGC-1, PAINT BOTH CTR PNL 20A 1 12 9 1300 1 1600 16 1 1 20A TSA 1 20A TSA 1 20A 1 1 20A TSA 1 20A TSA 1 1 2 1 100 1380 1 10 <td< td=""></td<></td></th>	<td>BRANCH BREAKERS ITEM AMPS TYPE POLE SIZE CIR A B C A B C CIR VIRE POLE SIZE L-3, LATHE 20A 1 12 1 1600 500 500 6 1 1 1 GF 20A 1 DC-1, DUST COLLECTOR 25A 2 12 3 1500 1 1600 6 12 1 20A 1 PGC-1, PAINT BOTH CTR PNL 20A 1 12 9 3 1600 1 10 1 20A TSA 1 PGC-1, PAINT BOTH CTR PNL 20A 1 12 9 1300 1 1600 16 1 1 20A TSA 1 20A TSA 1 20A 1 1 20A TSA 1 20A TSA 1 1 2 1 100 1380 1 10 <td< td=""></td<></td>	BRANCH BREAKERS ITEM AMPS TYPE POLE SIZE CIR A B C A B C CIR VIRE POLE SIZE L-3, LATHE 20A 1 12 1 1600 500 500 6 1 1 1 GF 20A 1 DC-1, DUST COLLECTOR 25A 2 12 3 1500 1 1600 6 12 1 20A 1 PGC-1, PAINT BOTH CTR PNL 20A 1 12 9 3 1600 1 10 1 20A TSA 1 PGC-1, PAINT BOTH CTR PNL 20A 1 12 9 1300 1 1600 16 1 1 20A TSA 1 20A TSA 1 20A 1 1 20A TSA 1 20A TSA 1 1 2 1 100 1380 1 10 <td< td=""></td<>
Image: Column 1 Column 2 Column 2	PANEL: RL TYPE: Type 1 VOLTS: 120/208 Y PHASE: 3 WIRES: 4	NOTES: CIRCUIT BREAKER TYPE: MAIN CIRCUIT BREAKER SHOULD BE OF SHUNT TRIP TYPE FOR EMERGENCY STOP <blank> THERMAL MAGNETIC CIRCUIT BREAKER SWITCH. GF 5 mA GROUND FAULT CIRCUIT BREAKER AF ARC-FAULT CIRCUIT BREAKER CO COMBINATION AFCI/GFCI CIRCUIT BREAKER EG 30 mA EQUIPMENT GROUND FAULT CIRCUIT BREAKER ST SHUNT TRIP CIRCUIT BREAKER</blank>	
AIC RATING AMPS RMS SYSM. NOTES: CIRCUIT BREAKER TYPE: * - NEW CIRCUIT BREAKER REUSE OLD CIRCUITS OR AVAILABLE CIRCUITS SELANK> THERMAL MAGNETIC CIRCUIT BREAKER GF GF 5 mA GROUND FAULT CIRCUIT BREAKER AF CO COMBINATION AFCI/GFCI CIRCUIT BREAKER EG ST SHUNT TRIP CIRCUIT BREAKER	EXISTING MOUNTING: SURFACE BUSSING: ALUMINUM FED FROM: SUBFEED LUGS AMP: 225 A DOOR-IN-DOOR ISO GROUND 200% NEUTRAL	PANEL: RH TYPE: Type 1 VOLTS: 480/277 Y PHASE: 3 WIRE MOUNTING: SURFACE LOCATION: MAINS: ML	
	BRANCH BREAKERS TEM AMPS TYPE POLE SIZE COLSPAN="2">VINTE CIR, VIRE CIR, V	FED FROM: AMP: 225 A MARP: 225 A BRANCH BREAKERS BRANCH BREAKERS BRANCH BREAKERS BRANCH BREAKERS TEM AMP: 225 A TEM AMP: 20A C	
		GF 5 mA GROUND FAULT CIRCUIT BREAKER AF ARC-FAULT CIRCUIT BREAKER CO COMBINATION AFCI/GFCI CIRCUIT BREAKER EG 30 mA EQUIPMENT GROUND FAULT CIRCUIT BREAKER ST SHUNT TRIP CIRCUIT BREAKER	

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	WIRES: 4
N	IAINS: MCB
	SUBFEED LUGS
	DOOR-IN-DOOR
	ISO GROUND
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PS	ITEM
A A	RECEPT
A	PS-1, PANEL SAW
A A	TS-1, TIGER STOP CHOP SAW/ LI
A	RECEPT WOOD SHOP ADDITION
A A	WORKBENCHES RECEPT WOOD SHOP ADDITION
A	CNC MACHINE-1
A	CNC COMPUTER-1
A	CNC MACHINE-2
A A	
A	RECEPT DRYING ROOM 124
A A	RECEPT EXISTING WOOD SHOP
A	POWER EXISTING WOOD SHOP
	CONNECTED LOAD TOTAL 64348 VA
२ Г BR	EAKER
	WIRES: 4
Ν	IAINS: MLO
	SUBFEED LUGS
	DOOR-IN-DOOR
	SPD
PS	
A	RT-12 ROOF TOP UNIT
A	
A	HVAC WRESTLING ADDITION 129
A	LIGHTING WRESTLING ROOMS
A A	SPARE SPARE
A	SPARE
	SPACE ONLY SPACE ONLY
	SPACE ONLY
	SPACE ONLY
	SPACE ONLY
	CONNECTED LOAD TOTAL 17193 VA
	AMPS RMS SYSM.
2	





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PROJECT FOR
THE SOUTH SANPETE SCHOOL
DISTRICT BOARD OF EDUCATION
39 SOUTH MAIN MANTI, UTAH 84642

SHEET KEYNOTES



1

GENERAL SITE PLAN NOTES

- DIVISION 26 SHALL VISIT THE SITE PRIOR TO BIDDING. BIDS SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS. BIDDERS SHALL EXAMINE THE SITE AND THE COMPLETE SET OF PLANS AND SPECIFICATIONS COVERING THE ENTIRE PROJECT. THEY SHALL BECOME FULLY CONVERSANT WITH THE TYPE OF GENERAL CONSTRUCTIONS, AS WELL AS ALL PERTINENT FACTS AFFECTING THE COST OF CARRYING OUT THE WORK THEY WILL CONTRACT TO PERFORM. DIVISION 26 SHALL COORDINATE PROJECT PHASING WITH THE GENERAL CONTRACTOR AND BID AND PERFORM RESPONSIBILITIES FOR THIS PROJECT TO CONTRACT EXPECTATIONS.
- MAINTAIN AND PROTECT EXISTING UTILITY SERVICES AND ELECTRIFIED EQUIPMENT FOR EXISTING FACILITIES. COORDINATE REQUIRED DISRUPTION OF THESE SERVICES WITH OWNER PRIOR TO DISCONNECTING. PROVIDE TEMPORARY UTILITY SERVICES TO KEEP FACILITIES IN OPERATION DURING UTILITY RELOCATION, INCLUDING BUT NOT LIMITED TO FIRE WATCHES, ELECTRICAL GENERATORS, ETC.
- ANY ELECTRICAL ROUGH-IN, EQUIPMENT AND CONDUIT PATHWAYS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWINGS. FINAL ROUTING OF THE CONDUITS, CIRCUITING, AND CABLING SHALL BE DETERMINED BY THE CONTRACTOR.
- DIVISION 26 SHALL BLUE STAKE THE AREA OF NEW CONSTRUCTION PRIOR TO EXCAVATION FOR FOOTINGS, ETC. IDENTIFY BURIED ELECTRICAL SYSTEMS(UTILITIES, POWER, COMMUNICATIONS, ETC.) AND COORDINATE LOCATIONS WITH THE GENERAL CONTRACTOR, IF EXISTING ELECTRICAL SYSTEMS ARE DISTURBED (POWER, AUXILIARY, ETC.) E.C. SHALL MAKE NECESSARY REPAIRS (AS APPROVED BY DISTRICT REPRESENTATIVE) AS PART OF THIS CONTRACT.
- 5. CONTRACTOR TO CLOSELY COORDINATE ALL NEW AND EXISTING DEVICE LOCATIONS WITH CIVIL DRAWINGS. CONTRACTOR TO VERIFY ALL FINAL GRADE REQUIREMENTS WITH CIVIL DRAWINGS. CLOSELY COORDINATE ANY REQUIRED POWER SHUTDOWNS WITH THE GENERAL, HEAD CUSTODIAN, AND OWNER.
- RADIUS SWEEPS FOR ALL SFCP CONDUITS. COORDINATE ALL ROUGH-IN AND INSTALLATION REQUIREMENTS WITH LATEST SFCP ELECTRICAL SERVICE REQUIREMENTS AND CONTACT PERSON PROVIDED ON PLAN ALL NEW DEVELOPMENTS WILL BE SERVICED UNDERGROUND, CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL UNDERGROUND CONDUIT, SECONDARY CONDUCTORS, TRANSFORMER PADS, AND SECONDARY BOXES, THE UNDERGROUND ELECTRICAL DISTRIBUTION LAYOUT SHALL BE COMPLETED OR APPROVED BY RMP ENGINEERING DIVISION.
- TRENCHING AND BACKFILL: LOCATE AND PROTECT EXISTING UTILITIES AND OTHER UNDERGROUND WORK IN A MANNER THAT WILL ENSURE THAT NO DAMAGE OR SERVICE INTERRUPTIONS WILL RESULT FROM EXCAVATING AND BACKFILLING PERFORM EXCAVATION IN A MANNER THAT PROTECTS WALLS, FOOTINGS, AND OTHER STRUCTURAL MEMBERS FROM BEING DISTURBED OR DAMAGED IN ANY WAY. BURIAL DEPTHS MUST COMPLY WITH NEC SECTION 300-5 (OR STATE OF UTAH REQUIREMENTS, WHICHEVER IS MORE STRINGENT), UNLESS NOTED OTHERWISE. PATCH AND REPAIR ROADS, PARKING AREAS, SIDEWALKS, CURBS, OTHER PAVED AREAS, PLANTING AND ANY OTHER DISTURBED AREAS CAUSED BY THE ELECTRICAL CONTRACTOR DURING CONSTRUCTION.
- BORING, TRENCHING, ASPHALT CUTTING AND PATCHWORK BY DIVISION 26, ANY CONCRETE THAT NEEDS TO BE REMOVED TO COMPLETE WORK WILL BE THE RESPONSIBILITY OF DIVISION 26. SCHEDULING OF THE TRENCHING SHALL BE COORDINATED WITH OTHER TRADES AND APPROVED BY THE OWNER.
- 10. CABLE RUNS SHALL BE MARKED WITH RED PLASTIC MARKING TAPE INSTALLED IN THE TRENCH ONE FOOT BELOW SURFACE. BACKFILL SHALL BE FREE OF ROCKS AND OTHER OBJECTS WHICH MIGHT DAMAGE THE CABLE.
- . TRENCHING, ASPHALT CUTTING AND PATCHWORK BY DIVISION 26. ANY CONCRETE THAT NEEDS TO BE REMOVED TO COMPLETE WORK WILL BE THE RESPONSIBILITY OF DIVISION 26. SCHEDULING OF THE TRENCHING AND INSTALLATION OF CABLE SHALL BE COORDINATED WITH OTHER TRADES AND APPROVED BY THE OWNER.
- 2. PROVIDE PLANS, PHOTO DOCUMENTATION AND GPS COORDINATES INDICATING THE LOCATION OF ANY AND ALL CONDUITS INTENDED FOR FUTURE USE BY OWNER. SUBMIT DOCUMENTATION WITH O&Ms, 13. CONTRACTOR TO PROVIDE PULL BOXES AS REQUIRED PER NEC AND NECESSARY TO PROVIDE SUCCESSFUL
- CABLE PULLS. 14. PROVIDE TEMPORARY POWER FOR PROJECT AS REQUIRED BY GENERAL CONTRACTOR.
- 15. LABEL ALL ELECTRICAL GEAR WITH BOTH CONSTRUCTION DRAWING-ROOM #S AND FINAL CONSUMER ROOM #S.





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PROJECT FOR
THE SOUTH SANPETE SCHOOL
DISTRICT BOARD OF EDUCATION
39 SOUTH MAIN MANTI, UTAH 84642

OVERALL ELECTRICAL PLAN E100





SHEET KEYNOTES

D1	EXISITING DUST COLLECTOR TO BE RELOCATED TO NEW LOCATION TEMPORARILIY DURING CONSTRUCTION SO THAT THE EXISTING WOOD SHOP CAN REMAIN ACTIVE. SEE SHEET E1.411 FOR TEMPORARY LOCATION.
D7	MAINTAIN CURRENT CIRCUIT AND CONTROLS FOR THE LIGHTING IN THIS AREA. LIGHT FIXTURE IN THE LITTLE STORAGE ROOM WILL BE ADDED TO CIRCUIT AND CONTROLS. NEW FIXTURES WILL BE INSTALLED. SEE SHEEET E1.211 AND E1.212.
E2	EXISTING CLOCK AND INTERCOMM, PLEASE REPLACE EXISTING INTERCOM SPEAKER WITH NEW DEVICE. REFER TO AV PLANS FOR MORE INFORMATION.
E4	EXISTING TRANSFORMERS MOUNTED IN CEILING SPACE TO REMAIN.

E22 REPLACE EXISTING PANEL 'Y' IN PLACE. REFER TO POWER PLANS FOR MORE INFORMATION.

GENERAL ELECTRICAL DEMOLITION NOTES

•	COORDINATE ALL NEW ELECTRICAL EQUIPMENT REQUIREMENTS AND MAKE CONNEC SYSTEMS. THIS INCLUDES LIGHTING, POWER, SIGNAL, RACEWAY AND OTHER SYSTEM DIVISION 26 (16).

- RELOCATE, REWIRE AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
- CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILING, FLOORS, ETC. EXCEPT WHERE THE USE OF SURFACE METAL RACEWAYS (E.G. WIRE MOLD) IS INDICATED ON DRAWINGS OR IN SPEC.
- LEAVE ALL EXISTING EQUIPMENT, IN PORTION OF THE BUILDING NOT BEING REMODELLED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC. TO WORKING CONDITION.

EXISTING RACEWAYS MAYBE REUSED (IN PLACE) WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. INSURE INTEGRITY OF EXISTING RACEWAY BEFORE REUSE.

- REMOVE ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED.
- REMOVE EXISTING LIGHT FIXTURES WHICH ARE NOT TO BE REUSED, PLACE IN CARTON, LABEL APPROPRIATELY AND RETURN TO OWNER, OR PROPERLY DISPOSE OF FIXTURES THAT THE OWNER CHOOSES NOT TO KEEP.
- DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC. DISCONNECT AND RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER
- COMPLETION OF THE WORK. 10. ALL DEMOLITION DEVICES ARE APPROCIMATE LOCATIONS. EXACT LOCATIONS NEED TO BE VERIFIED. 1. DIVISION 26 SHALL CONFIRM EXACT LOCATION OF EXISTING AND NEW EQUIPMENT WITH OWNERS. FIXTURE LOCATIONS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWINGS. EXISTING ELECTRICAL FIXTURES, DEVICES, EQUIPMENT, CIRCUITING AND/OR CIRCUITING AND/OR CONDUITS ARE NOT SPECIFIED UNLESS NOTED ON DRAWINGS. FINAL ROUTING OF THE CONDUITS, CIRCUITING AND CABLING SHALL BE DETERMINED BY THE
- CONTRACTOR AND CLOSELY COORDINATED WITH OWNER. ALL EXISTING CONDITIONS MUST BE VERIFIED WITHOUT EXCEPTION. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION. 12. DURING DEMOLITION AND NEW CONSTRUCTION, THE CONTINUATION OF BUILDING SYSTEMS MAY BE NECESSARY. TRACE AND IDENTIFY EXISTING ELECTRICAL SYSTEM (POWER, LIGHTING, FIRE ALARM AND SECURITY) WIRING IN AREAS PRIOR TO DEMOLITION, ELECTRICAL CONTRACTOR SHALL DISCONNECT ALL NECESSARY EQUIPMENT TO MAKE IT SAFE FOR DEMOLITION. WHERE LIVE CIRCUITS OR FEEDERS PASS
- THROUGH A REMODEL AREA, CONTRACTOR SHALL MAINTAIN ELECTRIC THROUGH. WHERE FEEDERS AND/OR BRANCH CIRCUITS FEED BOTH LOADS IN A REMODELED AREA AND OUTSIDE OF A REMODELED AREA, CONTRACTOR SHALL DISCONNECT AND REMOVE PORTIONS OF THE ELECTRICAL BRANCH CIRCUITS AND/OR FEEDERS WITHIN THE REMODELED AREA AND REWORK BRANCH CIRCUITS AND/OR FEEDERS TO MAINTAIN ELECTRICAL CONTINUITY TO LOADS OUTSIDE OF THE REMODELED AREA. 3. DEVICES AND EQUIPMENT TO BE DEMOLISHED SHALL BE REMOVED, INCLUDING ALL RELATED CONDUCTORS,
- RACEWAY, JUNCTION AND SPLICE BOXES UP TO THE PANELBOARD/SWITCHBOARD. ALL CONDUITS AND BOXES THAT ARE SURFACE MOUNTED AND NO LONGER REQUIRE ACTIVE CIRCUITS SHALL BE COMPLETELY REMOVED. DEVICES TO BE REMOVED ON DRYWALL OR PLASTER TYPE WALLS THAT ARE TO REMAIN SHALL HAVE THE WALL SURFACE PATCHED TO MATCH THE EXISTING FINISH. THE CONTRACTOR SHALL IDENTIFY ALL DEMOLISHED AND ABANDONED BRANCH CIRCUITS. THESE SHALL BE NOTED AS SPARE ON PANELBOARD SCHEDULES. THIS INCLUDES IDENTIFYING EXISTING ABANDONED AND SPARE CIRCUITS THAT ARE CURRENTLY IDENTIFIED AS USED. THE CONTRACTOR SHALL FURNISH NEW TYPED DIRECTORIES FOR ALL PANELBOARDS.
- 14. THE OWNER HAS THE RIGHT TO RETAIN ALL SALVAGEABLE MATERIAL. ANY MATERIAL THE OWNER CHOOSES NOT TO ACCEPT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR. 15. FULLY COORDINATE MECHANICAL EQUIPMENT ELECTRICAL CONNECTION REMOVAL AND RELOCATION WITH THE
- MECHANICAL CONTRACTOR. 16. CONTRACTOR TO VERIFY THAT ALL EXISTING EQUIPMENT THAT IS TO REMAIN, BE REMOVED AND RE-INSTALLED ARE IN WORKING CONDITIONS. CONTRACTOR IS TO PROVIDE OWNER WRITTEN DOCUMENTATION OF ANY ITEMS NOT IN WORKING CONDITION PRIOR TO COMMENCING WORK IN AN AREA.
- 7. CONTRACTOR IS TO PROTECT IN PLACE ALL MECHANICAL, PLUMBING, ELECTRICAL ABOVE CEILINGS. THIS MAY INCLUDE BUT NOT LIMITED TO: NETWORK CABLING, COAX CABLING, CONDUITS, PIPING, DUCTWORK, ETC. PROVIDE ADDITIONAL CABLING SUPPORTS AS REQUIRED FOR ANY UNSUPPORTED CABLING, RACEWAY, ETC.
- NEW LOCATION. ENSURE CIRCUIT CONTINUITY FOR OTHER DEVICES OR EQUIPMENT ON THE SAME BRANCH CIRCUIT. 19. WHERE FLOORS ARE BEING REMOVED AND/OR REPLACED, CONTRACTOR SHALL PROTECT ELECTRICAL FEEDERS AND BRANCH CIRCUITS WHICH ARE EITHER TO REMAIN PERMANENTLY OR UNTIL DEMOLITION IN
- FUTURE PHASING WHILE STRUCTURAL WORK IS PERFORMED. PROVIDE ALL NECESSARY LABOR AND MATERIALS TO PERFORM WORK AS COORDINATED WITH THE CONSTRUCTION MANAGER. 0. ANY FIRE ALARM DEVICE(S) REMOVED DURING DEMOLITION ARE REQUIRED TO BE RELOCATED IN THE LOCATION NECESSARY TO PROVIDE COVERAGE PER NFPA 72, AND CIRCUITED SAME AS BEFORE. FIRE ALARM DEVICE(S)
- ARE NOT ALLOWED TO BE LOCATED CENTER OF ANY ROOM OR SPACE. IF MORE FIRE ALARM DEVICES ARE REQUIRED CONTRACTOR SHALL PROVIDE THEM COMPLETELY, REFER TO SHEET E401 FOR MORE INFORMATION. . SEE NEW SYSTEMS SHEETS FOR NEW FIRE ALARM INFORMATION. REMOVE EXISTING FIRE ALARM DEVICE (S) AS
- NECESSARY FOR REMOVAL OF CEILING SYSTEM. RE-INSTALL ONCE NEW CEILING IS INSTALLED. 22. REMOVE VOICE/DATA CABLING BACK TO DATA ROOM UNLESS NOTED OTHERWISE.
- 23. PROVIDE BLANK COVERPLATE ON ALL EXISTING BOXES LOCATED IN MASONRY THAT ARE NOT BEING RE-USED, PROVIDE BLANK COVERPLATE ON ALL UNUSED BOXES.
- 24. COORDINATE THE DEMOLITION, PATCH, AND REPAIR OF CEILING FOR ALL LIGHTING AND ELECTRICAL APPARATUSES IN THIS AREA. DISCONNECT AND RE-CONNECT AS REQUIRED TO MAINTAIN ALL SYSTEMS. 5. KEEP CLASSROOM SYSTEMS TOGETHER, LOUDSPEAKERS, AMPLIFIERS, IR SENSORS, NUMBER THEY ARE REMOVED FROM. BOX EACH LOCATION IN SEPARATE BOXES AND LABEL WITH CLASSROOM NUMBER PRIOR TO RETURNING TO OWNER.
- 26. DEVICES NOTED WITH SUBSCRIPT '(E)' DENOTES THE DEVICES ARE EXISTING AND TO REMAIN UNTOUCHED DURING DEMOLITION, UNLESS OTHERWISE NOTED.
- 7. DEVICES NOTED WITH SUBSCRIPT '(E)' DENOTES THE DEVICES ARE EXISTING AND TO REMAIN REMOVE AND REINSTALL DEVICES AND NOTED OR AS REQUIRED FOR CONSTRUCTION.
- 28. CIRCUIT #S, IF SHOWN, ARE FROM RECORD DRAWING AND SHOWN FOR REFERENCE ONLY. VERIFY EXISTING CONDITIONS PRIOR TO WORK.
- 29. DEVICES SHOWN WITH RED HATCH ARE TO BE DEMOLISHED.

CTION TO EXISTING EMS INCLUDED UNDER

18. WHERE DEVICES OR EQUIPMENT IS TO BE RELOCATED, CONTRACTOR SHALL EXTEND EXISTING CIRCUITING TO



naylor wentworth lund architects





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SHOP ADDITION DEMOLITION FLOOR PLAN ALTERNATE #2 SCALE = 1/8" = 1'-0"

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- D7 MAINTAIN CURRENT CIRCUIT AND CONTROLS FOR THE LIGHTING IN THIS AREA. LIGHT FIXTURE IN THE LITTLE STORAGE ROOM WILL BE ADDED TO CIRCUIT AND CONTROLS. NEW FIXTURES WILL BE INSTALLED. SEE SHEEET E1.211 AND E1.212. E2 EXISTING CLOCK AND INTERCOMM, PLEASE REPLACE EXISTING INTERCOM SPEAKER WITH NEW DEVICE. REFER TO AV PLANS FOR MORE INFORMATION.
- E4 EXISTING TRANSFORMERS MOUNTED IN CEILING SPACE TO REMAIN.
- L7 REMOVE EXISTING LIGHT FIXTURES AND REUSE EXISTING CIRCUIT FOR NEW LIGHT FIXTURES.

GENERAL ELECTRICAL DEMOLITION NOTES

- COORDINATE ALL NEW ELECTRICAL EQUIPMENT REQUIREMENTS AND MAKE CONNECTION TO EXISTING SYSTEMS. THIS INCLUDES LIGHTING, POWER, SIGNAL, RACEWAY AND OTHER SYSTEMS INCLUDED UNDER DIVISION 26 (16).
- RELOCATE, REWIRE AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
- CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILING, FLOORS, ETC. EXCEPT WHERE THE USE OF SURFACE METAL RACEWAYS (E.G. WIRE MOLD) IS INDICATED ON DRAWINGS OR IN SPEC.
- LEAVE ALL EXISTING EQUIPMENT, IN PORTION OF THE BUILDING NOT BEING REMODELLED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC. TO WORKING CONDITION.
- EXISTING RACEWAYS MAYBE REUSED (IN PLACE) WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. INSURE INTEGRITY OF EXISTING RACEWAY BEFORE REUSE.
- REMOVE ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED.
- REMOVE EXISTING LIGHT FIXTURES WHICH ARE NOT TO BE REUSED, PLACE IN CARTON, LABEL APPROPRIATELY. AND RETURN TO OWNER, OR PROPERLY DISPOSE OF FIXTURES THAT THE OWNER CHOOSES NOT TO KEEP.
- DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC. DISCONNECT AND RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK.
- 0. ALL DEMOLITION DEVICES ARE APPROCIMATE LOCATIONS. EXACT LOCATIONS NEED TO BE VERIFIED. 1. DIVISION 26 SHALL CONFIRM EXACT LOCATION OF EXISTING AND NEW EQUIPMENT WITH OWNERS. FIXTURE LOCATIONS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWINGS. EXISTING ELECTRICAL FIXTURES, DEVICES, EQUIPMENT, CIRCUITING AND/OR CIRCUITING AND/OR CONDUITS ARE NOT SPECIFIED UNLESS NOTED ON DRAWINGS. FINAL ROUTING OF THE CONDUITS, CIRCUITING AND CABLING SHALL BE DETERMINED BY THE CONTRACTOR AND CLOSELY COORDINATED WITH OWNER. ALL EXISTING CONDITIONS MUST BE VERIFIED WITHOUT EXCEPTION. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING DEMOLITION
- DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION. 2. DURING DEMOLITION AND NEW CONSTRUCTION, THE CONTINUATION OF BUILDING SYSTEMS MAY BE NECESSARY. TRACE AND IDENTIFY EXISTING ELECTRICAL SYSTEM (POWER, LIGHTING, FIRE ALARM AND SECURITY) WIRING IN AREAS PRIOR TO DEMOLITION. ELECTRICAL CONTRACTOR SHALL DISCONNECT ALL NECESSARY EQUIPMENT TO MAKE IT SAFE FOR DEMOLITION. WHERE LIVE CIRCUITS OR FEEDERS PASS THROUGH A REMODEL AREA, CONTRACTOR SHALL MAINTAIN ELECTRIC THROUGH. WHERE FEEDERS AND/OR BRANCH CIRCUITS FEED BOTH LOADS IN A REMODELED AREA AND OUTSIDE OF A REMODELED AREA, CONTRACTOR SHALL DISCONNECT AND REMOVE PORTIONS OF THE ELECTRICAL BRANCH CIRCUITS AND/OR FEEDERS WITHIN THE REMODELED AREA AND REWORK BRANCH CIRCUITS AND/OR FEEDERS TO MAINTAIN ELECTRICAL CONTINUITY TO LOADS OUTSIDE OF THE REMODELED AREA.
- B. DEVICES AND EQUIPMENT TO BE DEMOLISHED SHALL BE REMOVED, INCLUDING ALL RELATED CONDUCTORS, RACEWAY, JUNCTION AND SPLICE BOXES UP TO THE PANELBOARD/SWITCHBOARD. ALL CONDUITS AND BOXES THAT ARE SURFACE MOUNTED AND NO LONGER REQUIRE ACTIVE CIRCUITS SHALL BE COMPLETELY REMOVED. DEVICES TO BE REMOVED ON DRYWALL OR PLASTER TYPE WALLS THAT ARE TO REMAIN SHALL HAVE THE WALL SURFACE PATCHED TO MATCH THE EXISTING FINISH. THE CONTRACTOR SHALL IDENTIFY ALL DEMOLISHED AND ABANDONED BRANCH CIRCUITS. THESE SHALL BE NOTED AS SPARE ON PANELBOARD SCHEDULES. THIS INCLUDES IDENTIFYING EXISTING ABANDONED AND SPARE CIRCUITS THAT ARE CURRENTLY IDENTIFIED AS
- USED. THE CONTRACTOR SHALL FURNISH NEW TYPED DIRECTORIES FOR ALL PANELBOARDS. 4. THE OWNER HAS THE RIGHT TO RETAIN ALL SALVAGEABLE MATERIAL. ANY MATERIAL THE OWNER CHOOSES NOT TO ACCEPT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.
- 5. FULLY COORDINATE MECHANICAL EQUIPMENT ELECTRICAL CONNECTION REMOVAL AND RELOCATION WITH THE MECHANICAL CONTRACTOR.
- 6. CONTRACTOR TO VERIFY THAT ALL EXISTING EQUIPMENT THAT IS TO REMAIN, BE REMOVED AND RE-INSTALLED ARE IN WORKING CONDITIONS. CONTRACTOR IS TO PROVIDE OWNER WRITTEN DOCUMENTATION OF ANY ITEMS NOT IN WORKING CONDITION PRIOR TO COMMENCING WORK IN AN AREA.
- 2. CONTRACTOR IS TO PROTECT IN PLACE ALL MECHANICAL, PLUMBING, ELECTRICAL ABOVE CEILINGS. THIS MAY INCLUDE BUT NOT LIMITED TO: NETWORK CABLING, COAX CABLING, CONDUITS, PIPING, DUCTWORK, ETC. PROVIDE ADDITIONAL CABLING SUPPORTS AS REQUIRED FOR ANY UNSUPPORTED CABLING, RACEWAY, ETC.
- 8. WHERE DEVICES OR EQUIPMENT IS TO BE RELOCATED, CONTRACTOR SHALL EXTEND EXISTING CIRCUITING TO NEW LOCATION. ENSURE CIRCUIT CONTINUITY FOR OTHER DEVICES OR EQUIPMENT ON THE SAME BRANCH CIRCUIT.
- 9. WHERE FLOORS ARE BEING REMOVED AND/OR REPLACED, CONTRACTOR SHALL PROTECT ELECTRICAL FEEDERS AND BRANCH CIRCUITS WHICH ARE EITHER TO REMAIN PERMANENTLY OR UNTIL DEMOLITION IN FUTURE PHASING WHILE STRUCTURAL WORK IS PERFORMED. PROVIDE ALL NECESSARY LABOR AND MATERIALS TO PERFORM WORK AS COORDINATED WITH THE CONSTRUCTION MANAGER.
- 20. ANY FIRE ALARM DEVICE(S) REMOVED DURING DEMOLITION ARE REQUIRED TO BE RELOCATED IN THE LOCATION PER NEPA 72. AND CIRCUITED SAME AS BEFORE. FIRE ALARM DEVICE(ARE NOT ALLOWED TO BE LOCATED CENTER OF ANY ROOM OR SPACE. IF MORE FIRE ALARM DEVICES ARE REQUIRED CONTRACTOR SHALL PROVIDE THEM COMPLETELY, REFER TO SHEET E401 FOR MORE INFORMATION.
- SEE NEW SYSTEMS SHEETS FOR NEW FIRE ALARM INFORMATION. REMOVE EXISTING FIRE ALARM DEVICE (S) AS NECESSARY FOR REMOVAL OF CEILING SYSTEM. RE-INSTALL ONCE NEW CEILING IS INSTALLED.
- 2. REMOVE VOICE/DATA CABLING BACK TO DATA ROOM UNLESS NOTED OTHERWISE. 3. PROVIDE BLANK COVERPLATE ON ALL EXISTING BOXES LOCATED IN MASONRY THAT ARE NOT BEING RE-USED,
- PROVIDE BLANK COVERPLATE ON ALL UNUSED BOXES. 4. COORDINATE THE DEMOLITION, PATCH, AND REPAIR OF CEILING FOR ALL LIGHTING AND ELECTRICAL
- APPARATUSES IN THIS AREA. DISCONNECT AND RE-CONNECT AS REQUIRED TO MAINTAIN ALL SYSTEMS. 5. KEEP CLASSROOM SYSTEMS TOGETHER, LOUDSPEAKERS, AMPLIFIERS, IR SENSORS, NUMBER THEY ARE REMOVED FROM. BOX EACH LOCATION IN SEPARATE BOXES AND LABEL WITH CLASSROOM NUMBER PRIOR TO RETURNING TO OWNER.
- 6. DEVICES NOTED WITH SUBSCRIPT '(E)' DENOTES THE DEVICES ARE EXISTING AND TO REMAIN UNTOUCHED DURING DEMOLITION, UNLESS OTHERWISE NOTED.
- 7. DEVICES NOTED WITH SUBSCRIPT '(E)' DENOTES THE DEVICES ARE EXISTING AND TO REMAIN REMOVE AND REINSTALL DEVICES AND NOTED OR AS REQUIRED FOR CONSTRUCTION.
- 28. CIRCUIT #S, IF SHOWN, ARE FROM RECORD DRAWING AND SHOWN FOR REFERENCE ONLY. VERIFY EXISTING CONDITIONS PRIOR TO WORK.
- 29. DEVICES SHOWN WITH RED HATCH ARE TO BE DEMOLISHED.









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SHEET KEYNOTES

- L6 EXTEND POWER FROM EXISTING LOCATIONS AND TIE INTO THE EXISTING EXTERIOR LIGHTING. MOUNT AT THE SAME HEIGHT AS THE OTHER EXTERIOR LIGHT FIXTURES. CONTROLS FOR EXTERIOR FACADE FIXTURES FROM NEARBY EXISTING CIRCUITS. EX CONNECTIONS TO THE NEW LOCATIONS.
- L9 ALL LIGHTING, POWER, AND MECHANICAL CONNECTIONS TO BE EXPLOSION PROOF. OFFS ON ALL CONDUITS ENTERING THE AREA.
- L10 REUSE EXISTING CIRCUIT FROM THE DEMOLITION OF THE EXISTING LIGHTING TO IN FIXTURES. SEE SHEET E1.111 AND E1.112.

LIGHTING GENERAL SHEET REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL FIXTURE LOCATIONS V CEILING GRID. FOR AREAS WITHOUT CEILINGS, FIXTURE LOCATIONS ARE DIAGRAMMATI ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELE WITH PAINTING CONTRACTOR FOR PAINTING OF EXPOSED RACEWAY. . FIELD VERIFY EXACT FIXTURE LENGTHS FOR CONTINUOUS ILLUMINATION FOR COVES A PROVIDE CONTINUOUS ILLUMINATION WITH NO MORE THAN A 1" GAP BETWEEN THE END WALL / CEILING AND THE FIXTURE. . ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR PLAY WITHIN MECHANICAL ROOMS.

- . ALL ROOM CONTROLLERS AND/OR POWER PACKS SHALL BE INSTALLED IN THE CEILING S ABOVE THE ENTRY DOOR TO THE SPACE IT IS CONTROLLING.
- . ALL UNDERCABINET LIGHTS MUST BE COORDINATED WITH MILLWORK FOR EXACT LENGT UNDERCABINET LIGHTS SHALL BE COORDINATED WITH MILLWORK SHOP DRAWINGS.
- PROVIDE 0-10V DIMMING CONDUCTORS FOR ALL AREAS AND/OR ROOMS WHERE 0-10V D BY THE RELAY PANEL SCHEDULE AND/OR WALL STATION CONTROL SEQUENCE.
- SUBSCRIPT ADJACENT TO LIGHT FIXTURE INDICATES CONTROLS, PROVIDE LIGHTING CO REQUIRED NUMBER OF RELAY/DIMMERS. PROVIDE ADDITIONAL RELAY/DIMMERS FOR DA REQUIRED.
- 3. SEE CORRESPONDING LIGHTING DIAGRAMS FOR GENERAL INSTALLATION REQUIREMEN AND CABLE TYPES.
- PROVIDE UNSWITCHED NORMAL CIRCUIT HOT LEG TO ALL EMERGENCY POWER CONTRO PROPER POWER SENSING.
- 10. PROVIDE UNSWITCHED HOT AHEAD OF RELAY, OCCUPANCY SENSOR, OR SWITCH TO ALL SHOWN, SUBSCRIPT NEAR LIGHT FIXTURES INDICATES CONTROL INTENT. PROVIDE LIGH WITH THE REQUIRED NUMBER OF RELAYS/DIMMERS. . MANUFACTURER'S REPRESENTATIVE FOR DIVISION 26 AND BIDDING CONTROLS SHALL B
- THE COMPREHENSIVE LIGHTING CONTROLS PACKAGE'S FINALIZATION IN ALIGNMENT WIT INTENT DEPICTED IN THE DRAWINGS AND COMPLYING WITH IECC 2021 REQUIREMENTS, 1 REPRESENTATIVE IS REQUIRED TO DEVELOP DETAILED SHOP DRAWINGS DEMONSTRATI CONTROL SYSTEM'S TOPOLOGY AND THE ESSENTIAL CONNECTIONS NECESSARY FOR IT FUNCTIONING, LIGHTING CONTROL DEVICES SHOWN ARE TO PROVIDE GENERAL INTENT MANUFACTURERS REPRESENTATIVE TO PROVIDE ALL ADDITIONAL DEVICES AND MODIFY
- AS REQUIRED TO MEET ECC 2021 REQUIREMENTS. 2. PROVIDE ADDITIONAL RELAYS/DIMMERS FOR DAYLIGHT ZONES AS NEEDED. PROVIDE 0-AREAS AND/OR ROOMS WHERE 0-10V DIMMING IS INDICATED BY THE WALLSTATION CONT OR BY TYPE OF CONTROL INTERFACE SHOWN.
- 3. CAREFULLY COORDINATE FIXTURE PLACEMENT WITHIN BAFFLED CEILINGS, PENDANT N SHALL BE MOUNTED AT THE SAME ELEVATION AS BAFFLES. COORDINATE WITH ARCHIT DETAILS PRIOR TO ROUGHAN-IN. 14. PROVIDE CONDUIT FROM DEVICE TO DEVICE IN OPEN AND/OR EXPOSED CEILINGS, CEILI
- ARE CONSIDERED OPEN/EXPOSED CEILINGS. NO EXPOSED CABLES SHALL BE SEEN FRO 5. WHERE INDICATED ON FIXTURE SCHEDULE AND/OR PROVIDED BY THE FIXTURE MANUFA
- REMOTE DRIVERS SHALL BE LOCATED IN THE NEAREST ACCESSIBLE CEILING, DIVISION 2 CONDUCTORS BETWEEN DRIVER AND FIXTURE(S) AS REQUIRED BY MANUFACTURER TO ACCEPTABLE VOLTAGE DROP RANGE. DIVISION 26 TO DETERMINE FINAL LOCATION AND I DESIGNATION MARKER (GREEN DOT) AT THE CEILING TO ALLOW FOR EASY FUTURE MAIN

LIGHTING SENSOR GENERAL NOTES

- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE SENSOR MANUFACTURER FOR PROPER PLACEMENT AND ADJUSTMENT OF OCCUPANCY SENSORS.
- EACH ZONE SHALL HAVE COVERAGE BY OCCUPANCY SENSOR SUCH THAT NO BLIND SPOT EXIST.
- UPON COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL BE COMPLETELY COMMISSIONED BY THE MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ALL ADJUSTMENTS AND SENSOR PLACEMENT TO ENSURE A TROUBLE-FREE INSTALLATION.
- THE LOCATION AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS WHICH ARE TO BE PROVIDED WITH SENSORS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS AS REQUIRED TO PROPERLY COVER THE RESPECTIVE ROOM. PROVIDE DAYLIGHT ZONE CONTROL REQUIREMENTS PER IECC-2015 C405.2.2.3. LOCATE DAYLIGHT SENSOR(S)
- PER MANUFACTURER'S RECOMMENDATION AND WHERE REQUIRED WITHIN THE ROOM FOR PROPER COVERAGE.
- PROVIDE OCCUPANCY SENSOR WITH AN ADDITIONAL SET OF DRY CONTACTS FOR HVAC CONTROL AT EACH VAV BOX LOCATION.

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DATE REVISION

PROJECT FOR
THE SOUTH SANPETE SCHOOL
DISTRICT BOARD OF EDUCATION
39 SOUTH MAIN MANTI, UTAH 84642

SHOP ADDITION

E1.211



4

SHOP ADDITION LIGHTING PLAN ALTERNATE #2 SCALE = 1/8" = 1'-0"

SHEET KEYNOTES

L1	PROVIDE EXPLOSION PROOF LIGHT.
L4	TO SWITCH ON BOTH PLANS: PROVIDE EXPLOSION PROOF TYPE LIGHT SWITCH.
L5	PROVIDE POWER FROM EXISTING LIGHTING CIRCUIT WITHIN THE SPACE.
L6	EXTEND POWER FROM EXISTING LOCATIONS AND TIE INTO THE EXISTING EXTER LIGHTING. MOUNT AT THE SAME HEIGHT AS THE OTHER EXTERIOR LIGHT FIXTUR CONTROLS FOR EXTERIOR FACADE FIXTURES FROM NEARBY EXISTING CIRCUITS CONNECTIONS TO THE NEW LOCATIONS.
L9	ALL LIGHTING, POWER, AND MECHANICAL CONNECTIONS TO BE EXPLOSION PRO OFFS ON ALL CONDUITS ENTERING THE AREA.
L10	REUSE EXISTING CIRCUIT FROM THE DEMOLITION OF THE EXISTING LIGHTING TO FIXTURES. SEE SHEET E1.111 AND E1.112.

LIGHTING GENERAL SHEET NOTES

- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL FIXTURE LOCATIONS WITHIN A CEILING OR CEILING GRID. FOR AREAS WITHOUT CEILINGS, FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS. COORDINATE WITH PAINTING CONTRACTOR FOR PAINTING OF EXPOSED RACEWAY.
- FIELD VERIFY EXACT FIXTURE LENGTHS FOR CONTINUOUS ILLUMINATION FOR COVES AND LINEAR RUNS. PROVIDE CONTINUOUS ILLUMINATION WITH NO MORE THAN A 1" GAP BETWEEN THE END OF THE EDGE OF THE WALL / CEILING AND THE FIXTURE.
- ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR PLACEMENT OF FIXTURES WITHIN MECHANICAL ROOMS.
- ALL ROOM CONTROLLERS AND/OR POWER PACKS SHALL BE INSTALLED IN THE CEILING SPACE DIRECTLY ABOVE THE ENTRY DOOR TO THE SPACE IT IS CONTROLLING.
- ALL UNDERCABINET LIGHTS MUST BE COORDINATED WITH MILLWORK FOR EXACT LENGTHS. ALL UNDERCABINET LIGHTS SHALL BE COORDINATED WITH MILLWORK SHOP DRAWINGS.
- PROVIDE 0-10V DIMMING CONDUCTORS FOR ALL AREAS AND/OR ROOMS WHERE 0-10V DIMMING IS INDICATED BY THE RELAY PANEL SCHEDULE AND/OR WALL STATION CONTROL SEQUENCE.
- SUBSCRIPT ADJACENT TO LIGHT FIXTURE INDICATES CONTROLS, PROVIDE LIGHTING CONTROLS WITH THE REQUIRED NUMBER OF RELAY/DIMMERS. PROVIDE ADDITIONAL RELAY/DIMMERS FOR DAYLIGHT ZONES AS REQUIRED.
- SEE CORRESPONDING LIGHTING DIAGRAMS FOR GENERAL INSTALLATION REQUIREMENTS, CONNECTIONS, AND CABLE TYPES.
- PROVIDE UNSWITCHED NORMAL CIRCUIT HOT LEG TO ALL EMERGENCY POWER CONTROL DEVICES FOR PROPER POWER SENSING.
- 0. PROVIDE UNSWITCHED HOT AHEAD OF RELAY, OCCUPANCY SENSOR, OR SWITCH TO ALL EXIT SIGNS, IF SHOWN, SUBSCRIPT NEAR LIGHT FIXTURES INDICATES CONTROL INTENT. PROVIDE LIGHTING CONTROLLERS WITH THE REQUIRED NUMBER OF RELAYS/DIMMERS.
- MANUFACTURER'S REPRESENTATIVE FOR DIVISION 26 AND BIDDING CONTROLS SHALL BE ACCOUNTABLE FOR THE COMPREHENSIVE LIGHTING CONTROLS PACKAGE'S FINALIZATION IN ALIGNMENT WITH THE DESIGN INTENT DEPICTED IN THE DRAWINGS AND COMPLYING WITH IECC 2021 REQUIREMENTS, THE LIGHTING REPRESENTATIVE IS REQUIRED TO DEVELOP DETAILED SHOP DRAWINGS DEMONSTRATING THE LIGHTING CONTROL SYSTEM'S TOPOLOGY AND THE ESSENTIAL CONNECTIONS NECESSARY FOR ITS PROPER FUNCTIONING, LIGHTING CONTROL DEVICES SHOWN ARE TO PROVIDE GENERAL INTENT ONLY. MANUFACTURERS REPRESENTATIVE TO PROVIDE ALL ADDITIONAL DEVICES AND MODIFY DEVICE LOCATIONS AS REQUIRED TO MEET ECC 2021 REQUIREMENTS.
- 2. PROVIDE ADDITIONAL RELAYS/DIMMERS FOR DAYLIGHT ZONES AS NEEDED. PROVIDE 0-10V DIMMING FOR ALL AREAS AND/OR ROOMS WHERE 0-10V DIMMING IS INDICATED BY THE WALLSTATION CONTROL SEQUENCE AND OR BY TYPE OF CONTROL INTERFACE SHOWN.
- 3. CAREFULLY COORDINATE FIXTURE PLACEMENT WITHIN BAFFLED CEILINGS, PENDANT MOUNTED FIXTURES SHALL BE MOUNTED AT THE SAME ELEVATION AS BAFFLES. COORDINATE WITH ARCHITECTURAL RCP AND DETAILS PRIOR TO ROUGHAN-IN.
- 14. PROVIDE CONDUIT FROM DEVICE TO DEVICE IN OPEN AND/OR EXPOSED CEILINGS, CEILINGS WITH CLOUDS ARE CONSIDERED OPEN/EXPOSED CEILINGS. NO EXPOSED CABLES SHALL BE SEEN FROM BELOW.
- 5. WHERE INDICATED ON FIXTURE SCHEDULE AND/OR PROVIDED BY THE FIXTURE MANUFACTURER, ALL REMOTE DRIVERS SHALL BE LOCATED IN THE NEAREST ACCESSIBLE CEILING, DIVISION 26 SHALL UPSIZE CONDUCTORS BETWEEN DRIVER AND FIXTURE(S) AS REQUIRED BY MANUFACTURER TO MAINTAIN AN ACCEPTABLE VOLTAGE DROP RANGE. DIVISION 26 TO DETERMINE FINAL LOCATION AND PROVIDE A DESIGNATION MARKER (GREEN DOT) AT THE CEILING TO ALLOW FOR EASY FUTURE MAINTENANCE.

LIGHTING SENSOR GENERAL NOTES

- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE SENSOR MANUFACTURER FOR PROPER PLACEMENT AND ADJUSTMENT OF OCCUPANCY SENSORS.
- EACH ZONE SHALL HAVE COVERAGE BY OCCUPANCY SENSOR SUCH THAT NO BLIND SPOT EXIST. UPON COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL BE COMPLETELY COMMISSIONED BY THE
- MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ALL ADJUSTMENTS AND SENSOR PLACEMENT TO ENSURE A TROUBLE-FREE INSTALLATION.
- THE LOCATION AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS WHICH ARE TO BE PROVIDED WITH SENSORS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS AS REQUIRED TO PROPERLY COVER THE RESPECTIVE ROOM.
- PROVIDE DAYLIGHT ZONE CONTROL REQUIREMENTS PER IECC-2015 C405.2.2.3. LOCATE DAYLIGHT SENSOR(S) PER MANUFACTURER'S RECOMMENDATION AND WHERE REQUIRED WITHIN THE ROOM FOR PROPER COVERAGE.
- PROVIDE OCCUPANCY SENSOR WITH AN ADDITIONAL SET OF DRY CONTACTS FOR HVAC CONTROL AT EACH VAV BOX LOCATION.

RIOR CONTROLS FOR RES. PROVIDE POWER AND TS. EXTEND EXISTING OOF. PROVIDE CONDUIT SEAL

O INSTALL NEW LIGHTING









△ DATE REVISION





SHOP ADDITION FLOOR POWER PLAN SCALE = 1/8" = 1'-0"

POWER GENERAL SHEET NOTES

- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.
- CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
- FOR VAV POWER, PROVIDE A DEDICATED 120V/20A CIRCUIT FROM A PANEL LOCATED IN THE ELECTRICAL ROOM OF THE ASSOCIATED QUADRANT. COORDINATE EXACT LOCATION OF ALL VAV BOXES WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- PROVIDE 120V CIRCUIT FROM THE NEAREST PANELBOARD FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. PROVIDE DUCT DETECTOR WITHIN 5 FEET OF EACH FIRE/SMOKE DAMPER.
- . COORDINATE PLACEMENT OF ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN. WHERE DEVICES ARE SHOWN IN SAME WALL SPACE, ALIGN VERTICALLY AND HORIZONTALLY, COORDINATE WITH ARCHITECTURAL DRAWINGS, ATHLETIC SAFETY WALL PADDING AND CABINETRY DRAWINGS.
- ALL THE LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIO/VISUAL EQUIPMENT, SOUND AMPLIFICATION, ETC, TO BE ROUTED THROUGH CONDUIT IN EXPOSED AND CLOUDED CEILING AREAS.
- ALL LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIO/VISUAL EQUIPMENT, CLASSROOM SOUND AMPLIFICATION, ETC, TO BE PROPERLY SUPPORTED PER THE TELE/DATA SPEC, AND AT 5'-0" INTERVALS AND TO FOLLOW BUILDING STRUCTURAL LINES. PULLING WIRE DIAGONALLY ACROSS ROOMS IS NOT ALLOWED, USING CEILING SYSTEM OR LIGHT FIXTURE SUPPORT/SEISMIC WIRES FOR SUPPORT IS NOT ALLOWED.
- PROVIDE GFC PROTECTION ON ALL DEVICES AND EQUIPMENT PER THE NEC REQUIREMENTS, DEVICES SHALL BE READILY ACCESSIBLE, IF ANY OUTLET IS INSTALLED WITHIN 6 FEET OF OUTSIDE EDGE OF SINK, CONTRACTOR SHALL PROVIDE GFCI RECEPTACLE PER NEC, WHETHER SHOWN OR NOT. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH
- MECHANICAL CONTRACTOR, CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE. 10. FOR VAV POWER, PROVIDE A DEDICATED 120V/20A CIRCUIT FROM A PANEL LOCATED IN THE ELECTRICAL ROOM OF THE ASSOCIATED QUADRANT, COORDINATE EXACT LOCATION OF ALL VAV BOXES WITH
- MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. . PROVIDE 120V CIRCUIT FROM NEAREST PROVIDED CIRCUIT FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH, PROVIDE DUCT
- DETECTOR WITHIN 5 FEET OF EACH FIRE/SMOKE DAMPER. 2. CONTRACTOR TO COORDINATE ALL LOCATIONS OF FIRE/SMOKE AND SMOKE DAMPERS WITH MECHANICAL CONTRACTOR. CONTRACTOR TO PROVIDE POWER, MONITOR MODULES, AND RELAYS AS REQUIRED FOR A COMPLETE SYSTEM.
- 3. DIVISION-26 IS RESPONSIBLE TO PROVIDE CONDUIT AND ROUGH-IN FOR ALL THERMOSTAT CONTROLS LOCATED WITH WALLS. COORDINATE WITH THE CONTROLS CONTRACTOR AND VERIFY EXCAT LOCATION OF ALL THERMOSTATS.
- 14. DEVICES NOTED WITH SUBSCRIPT '(E)' DENOTES THE DEVICES ARE EXISTING AND TO REMAIN UNTOUCHED DURING DEMOLITION, UNLESS OTHERWISE NOTED. 5. CIRCUIT #S, IF SHOWN, ARE FROM RECORD DRAWING AND SHOWN FOR REFERENCE ONLY. VERIFY EXISTING

CONDITIONS PRIOR TO WORK.

- E9 PROVIDE A DRY TYPE TRANSFORMER ABOVE THIS ROOM, LOCATED NEXT TO THE OTHER TWO EXISTING ELECTRICAL TRANSFORMERS.PROVIDE A DISCONNECT FROM THE TRANSFORMER TO THE NEW PANELS LMS1 AND LWS1 ON THE WALL FOR EASY ACCESS. RUN CONDUIT AND WIRE BACK TO MDP PANEL LOCATED ON SITE PLAN. REFER TO THE ONE LINE FOR MORE INFORMATION.
- E12 COORDINATE LOCATION OF 120V, 20A CORD DROP WITH SHOP TEACHER. CORD DROP TO HANG AT 7' ABOVE THE FLOOR. E13 PROVIDE POWER FOR DOORS. COORDINATE LOCATION WITH OWNER.
- E16 PROVIDE EMERGENCY OFF BUTTON AT DOOR LOCATION. PROVIDE CONTROL CABLING FROM SWITCH TO
- SHUNT BREAKER ON THE 'LMS1' PANEL FOR EMERGENCY SHUTOFF OF PANEL. E17 PROVIDE EMERGENCY OFF BUTTON AT DOOR LOCATION. PROVIDE CONTROL CABLING FROM SWITCH TO SHUNT BREAKER ON THE 'LWS1' PANEL FOR EMERGENCY SHUTOFF OF PANEL.
- E20 PROVIDE A NEW PANEL 'Y' IN PLACE OF THE EXISTING PANEL. SEE PANELBOARD SCHEDULE FOR MORE INFORMATION. PLEASE FIELD VERIFY EXISTING POWER DRAW. IF PANEL EXCEEDS 150A, PLEASE PROVIDE NEW 300A BATED CONDUCTORS, SIZE 500, IN 4" CONDUIT BACK TO THE MDP SHOWN ON OVERALL PLAN PROVIDE A NEW 300A BREAKER IN MDP. PROVIDE NEW 300A PANEL 'Y' AND RE-WIRE ALL EXISTING CIRCUITING TO NEW PANEL. OTHERWISE, REPLACE PANEL Y WITH NEW 225A PANEL. PROVIDE ALL NECESSARY PARTS AND CONNECTIONS. REUSE EXISTING CONDUITS AND WIRE WHERE POSSIBLE.
- REPLACE EXISTING DATA SERVER WITH DATA CABINET THAT HAS SIDES AND HAS A LOCK. COORDINATE WIT OWNER THE BEST APPROACH TO MAINTAIN THE EXISTING SYSTEM THROUGHOUT THE REMODEL. THE EXISTING RACK SHOULD BEW RELOCATED IN THE CORNER OF THE EXPANDEND METAL SHOP, NEAR THE CEILING.
- E23 PROVIDE POWER FOR FUTURE HOIST TROLLEY. COORDINATE EXACT LOCATION WITH OWNER.
- E24 PROVIDE EXPLOSION PROOF RECEPTACLE FOR PAINT BOOTH.
- E25 PROVIDE POWER FOR MAGNETIC HOLD OPEN.

E21

- THE WOOD AND METAL SHOPS. E57 PROVIDE KH INDUSTRIES HEAVY DUTY 20A/120V. 3-CONDUCTOR RTBB3LB-1GB520-J12K+20A DUPLEX RECEPTACLE PAYOUT END, BLACK COLORED 50' CORD REEL. MOUNT 20A TWIST LOCK DUPLEX RECEPTACLE NEAR STRUCTURE FOR FEEDER END AND ATTACH CORD REEL TO STRUCTURE AS REQUIRED. COORDINATE
- EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. E58 PROVIDE KH INDUSTRIES HEAVY DUTY 50A/208V, 4-CONDUCTOR RTMH4L-WW-K6K+50A NEMA 10-50R RECEPTACLE PAYOUT END, YELLOW COLORED 50' CORD REEL. MOUNT 50A TWIST LOCK PLUG NEAR STRUCTURE FOR FEEDER END AND ATTACH CORD REEL TO STRUCTURE AS REQUIRED. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- E59 PROVIDE KH INDUSTRIES HEAVY DUTY 30A/208V, 4 CONDUCTOR NEMA 18-30R RECEPTACLE PAYOUT END 50' CORD REEL. MOUNT 30A TWIST LOCK PLUG NEAR STRUCTURE FOR FEEDER END AND ATTACH CORD REEL TO STRUCTURE AS REQUIRED. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- L9 ALL LIGHTING, POWER, AND MECHANICAL CONNECTIONS TO BE EXPLOSION PROOF. PROVIDE CONDUIT SEAL OFFS ON ALL CONDUITS ENTERING THE AREA.

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	 <u>CONNECTION TYPE NOTES:</u> 1. NON-FUSE DISCONNECT SWITCH 2. FUSED DISCONNECT SWITCH 3. CIRCUIT BREAKER IN ENCLOSURE 4. MANUAL STARTER WITH THERMAL OVERLOAD 5. MAGNETIC STARTER 6. MAGNETIC STARTER / NON-FUSED DISCONNECT COMBINATION 7. MAGNETIC STARTER / FUSED DISCONNECT COMBINATION 8. MAGNETIC STARTER / CIRCUIT BREAKER COMBINATION 							RESPON A. FURNIS DIVISION C. FURNIS D. FURNIS C. FURNIS C. FURNIS	Sibility Shed, In Shed Ai 26(16) Shed, In Shed, In	LEGEN NSTALLE ND INST NDER A NSTALLE EAKER	NS									
	 9. VARIAGBLE FREQUENCY DRIVE 10. REDUCED VOLTAGE STARTER 11. DIPEOT OCUMENTIAL 						N	IOTE 1: F	PER 250	.122(A), TOR	EQUIPM	IENT GRO	DUND IS NO	T REQUIRE	D TO BE	LARGEF	R THAN T	HE)L 110	
	12. RECEPTACLE / SPECIAL PURPOSE OUTLET / ETC. 13. TWO SPEED STARTER. COORDINATE WITH MOTOR TYPE							NOTE 2: OVERCURRENT PROTECTION DEVICE (OCPD) SHOWN IS LOCATED AT POWER PANEL. ALL FUSING TO BE SIZED IN ACCORDANCE WITH FUSE MFR RECOMMENDATION FOR MOTOR NAME PLATE RATING.											ADDI ADDI AH 846	
	14.	NEDAL NOTES	ER.				N	IOTE 3: A	ALL EQU	JIPMENT	T TO BE F	RATED F	OR THE ENV	/IRONMENT	FOR WH	IICH IT I	S INSTAL	LED.		54
	1.1	EQUIPMENT SHOWN IS FOR		LY. THE	RE IS NO REFERENCE TO THE QUANTITY OF EQUIPMENT LOCATED IN EACH SPACE.												AENTS R 9, 20			
	2. LOAD-GENTERS SHOWN ARE FURNISHED AND INSTALLED BY ANOTHER DIVISION. ELECTRICAL CONTRACTOR SHALL PROVIDE SINGLE POINT CONNECTION TO LOAD CENTER. 3. PER 250 122(A) FOUIPMENT GROUND IS NOT REQUIRED TO BE LARGER THAN PHASE CONDUCTOR														NTO					
	3. FEN 230. 122(A), EQUIFINIENT GROUND IS NOT REQUIRED TO BE LARGER THAN PHASE CONDUCTOR. 4. CONTRACTOR SHALL REFER TO FOOD SERVICE EQUIPMENT DRAWINGS FOR ALL DEVICE AND HARDWARE CONNECTION DIMENSIONS INCLUDING MOUNTING HEIGHTS FOR ALL DEVICES SERVING FOOD SERVICE FOUIPMENT														ING	H H N N N N N N N N N N	BID I DEC			
	HEIGHTS FOR ALL DEVICES SERVING FOOD SERVICE EQUIPMENT. 5. EQUIPMENT CONNECTIONS, VOLTAGES, AMPERAGES AND DEVICE RATINGS INDICATED IN THE KITCHEN EQUIPMENT SCHEDULE ARE BASED UPON THE LATEST DRAWINGS, SPECIFICATIONS AND CUTSHEETS THAT COULD BE PROCURED FROM THE FOOD SERVICE CONSULTANT'S DOCUMENTS. PRIOR TO FINAL CONNECTION THE CONTRACTOR SHALL VERIFY THE CONNECTION REQUIREMENTS WITH THE MOST CURRENT FOOD SERVICE DOCUMENTS OR ACTUAL EQUIPMENT DUPCHASED AND DESCREDANCIES SHALL BE DEPORTED TO THE ADOUNTED.									NAL	NTI DP & V VEST 50	ÐN								
	EQUIPMENT PURCHASED. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT AND ENGINEER. 6. PROVIDE ALL CONDUITS REQUIRED FOR REFRIGERATION AND BEVERAGE SYSTEM LINES.										DRAWI SSUE MWI									
	 PROVIDE FLEXIBLE CONDUIT AND FITTINGS AS REQUIRED FOR KITCHEN EQUIPMENT THAT WILL BE CONNECTED PERMANENTLY. ALLOW ENOUGH SLACK TO MOVE EQUIPMENT FOR CLEANING. COORDINATE WITH PLUMBING AND MECHANICAL PIPING TO AVOID CONFLICTS. PROVIDE ALL INTERCONNECTING CONDUIT AND WIRE BETWEEN EACH DISPENSER AND THE SWITCH AND ALL COMPONENTS. 										ТО									
	10.	10. PRE-FABRICATED COLD STORAGE ROOMS (CSR) (WALK-IN COOLER/FREEZER): PROVIDE ALL INTERCONNECTING CONDUIT, SEAL-OFFS, SEALANT, WIRE AND ALL FINAL CONNECTIONS TO PROVIDE THE FOLLOWING:																		
		INSTALL AND CONNECT L CONNECT CRS DEFROST	_ight fi≯ ⁻ , drain	(TURES, LINE, HE	, SPLICE EATERS,	BOXES	, LAMPS OSTATS	6, LIGHT 6, TIME C	SWITCH CLOCKS	IES AND , EVAPC) DOOR H DRATIVE	HEATERS	S SUPPLIED AL BLOCK, S	BY THE KE SWITCH, FA	S. N DOOR	SWITCH	AND			
	CC	MPRESSOR CONTROL PANPROVIDE CONDUIT AND \	EL, ETC. WIRE BE ⁻	SUPPLI TWEEN	ED BY T CONDEN	HE KES. NSERS A	ND EVA	PORATO	ORS PEF	R KES D	ETAILS.									
	• INSTALL CONDUIT ON THE EXTERIOR OF THE CRS AND PENETRATE THE CRS CEILING AT A POINT WHERE THE CONDUIT CAN DROP DIRECTLY INTO THE POINT OF CONNECTION. DO NOT INSTALL CONDUIT ON THE INTERIOR OF THE CRS. SEAL ALL PENETRATIONS WITH CAULKING AND INSTALL INTERIOR AND EXTERIOR ESCUTOLEON DI ATES										POINT DR									
	E5 11.	. PROVIDE ALL DISCONNEC	T SWITC	HES WH	IERE RE	QUIRED	BY NEC	C.												(EVISION
	12. 13.	. ALL 20A 120V RECEPTACLE . TYPE 1 HOODS (VENTILAT)	ES IN FO ORS): PR	OD PRE	PARATIO ALL INTE	ON AREA ERCONN	A SHALL ECTING	BE GFC	I TYPE.	WIRE TO		MPLISH T	HE FOLLOW	VING:						
		PROVIDE CONNECTIONS SHUT DOWN ALL ELECTE	EQUIPM RICAL PO	ENT SHI WER UN	UT-OFFS	S. IE HOOD	·.													
		INTERLOCK MAKEUP AIR	R AND EX	HAUST.																
		MONITOR CONTROL PAN			IBUILDI	NG FIRE	ALARM.													
			ELECTRICAL EQUIF					IENT		 	WIRE				OCPD		0- 0- 0-			
				LO	DAD				MPS	L SIZE				Q			SC/ VF NOTE			
UNIT	#	DESCRIPTION	Ч	FLA	MCA	٨	VOLTAGI	PHASE	LL LOAD A	CONDUI	SETS	ατγ	SIZE	EQ. GROUI	ТҮРЕ	AMPS	ARTER/ DI: HER (SEE	REMARKS	E SCH	4642
CNCC	1	CNC COMP	0.00	0.4	0.4	1600 VA	120 V	1	1 3 A	3/4"	1	2	12	12	СВ	20 A		SHOP	Ц Ц Ц Ц Ц	× H V
CNCC CNCM	2	CNC COMP CNC MACHINE	0.00	0 A 0 A	0 A 0 A	1600 VA 10796	120 V 208 V	1 3	13 A 30 A	3/4" 3/4"	1	2	12 8	12 10	CB CB	20 A 30 A	2 A 2 A	SHOP SHOP	A R R	- C -
CNCM	2	CNC MACHINE	0.00	0 A	0 A	10796 VA	208 V	3	30 A	3/4"	1	3	8	10	СВ	30 A	2 A	SHOP	SP OAI	
DC L	1 1 2	DUST COLLECTOR LATHE	0.00 0.00 0.00	0 A 0 A 0 A	0 A 0 A 0 A	3000 VA 1600 VA 1600 VA	208 V 120 V 120 V	1 1 1	14 A 13 A 13 A	3/4" 3/4" 3/4"	1 1 1	2 2 2	12 12 12	12 12 12	CB CB CB	25 A 20 A 20 A	11 A 12 A 12 A	SHOP SHOP SHOP	L B	2 Z
L	3 4	LATHE	0.00	0 A 0 A	0 A 0 A	1600 VA 1600 VA	120 V 120 V 120 V	1 1	13 A 13 A	3/4" 3/4"	1	2	12 12 12	12 12 12	CB CB	20 A 20 A	12 A 12 A 12 A	SHOP SHOP		AM H
PS PT	1 1 1	PANEL SAW PLASMA TABLE SHAPER	0.00	0 A 0 A	0 A 0 A	1600 VA 2500 VA	120 V 208 V	1 1 1	13 A 12 A 20 A	3/4" 3/4" 3/4"	1 1 1	2 2 2	12 12 10	12 12 10	CB CB CB	20 A 20 A 20 A	12 A 12 A	SHOP SHOP		
SC TS	1 1	SAWDUST COLLECTOR TIGER STOP CHOP SAW/ LIFT	60.00 0.00	0 A 0 A	0 A 0 A	0 VA 1600 VA	480 V 120 V	3	77 A 13 A	3/4 1 1/4" 3/4"	1 1 1	3	1 12	6 12	CB CB	125 A 20 A	2 A 12 A	SHOP SHOP		39 S(
VT W	1	VACUUM TABLE	0.00	0 A 0 A	0 A 0 A	6240 VA 4160 VA	208 V 208 V	1	30 A 20 A	3/4" 3/4"	1	2	8 10	10 10	CB CB	30 A 50 A	30 A 2 A	SHOP SHOP		
W	2 3	WELDER WELDER	0.00	0 A 0 A	0 A 0 A	4160 VA 4160 VA	208 V 208 V	1	20 A 20 A	3/4" 3/4"	1 1	2 2	10 10	10 10	CB CB	50 A 50 A	2 A 0 A	SHOP SHOP		
W W	4 5 6	WELDER WELDER WELDER	0.00	0 A 0 A 0 A	0 A 0 A 0 A	4160 VA 4160 VA 4160 VA	208 V 208 V 208 V	1 1 1	20 A 20 A 20 A	3/4" 3/4" 3/4"	1 1 1	2 2 2	10 10 10	10 10 10	CB CB CB	50 A 50 A 50 A	0 A 2 A 2 A	SHOP SHOP SHOP		
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SHEET KEYNOTES

E8	PROVIDE ELECTRICAL CONNECTIONS TO SAW DUST COLLECTOR CONTROL PANEL PROVIDE 480V 3P CONNECTION TO CONTROL PANEL AS SHOWN BEFORE CONTINUING ON TO DUST COLLECTOR FAN. DIV. 26 TO ALSO PROVIDE 120V 1P POWER AND A DEDICATED FIRE ALARM INITIATION LOOP TO SAWDUST COLLECTOR CONTROL PANEL. WIRE COMPLETELY AND INCLUDE ALL AUX CONTROLS AND VALKVES AS PART OF THE SAWDUST COLLECTOR. COORDINATE EXACT CONNECTION LOCATION WITH DIST COLLECTOR SHOP DRAWINGS PRIOR TO ELECTRICAL ROUGH-IN. DIV. 26 TO PROVIDE 120V 1P POWER TO NO RETURN VALVE AND ABORT GATE CONTROL PANELS LOCATED NEAR DUST COLLECTOR. REFER TO MECHANICAL DIAGRAM 4/M6.10 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
E10	TEMPORARY POWER FOR DUST COLLECTOR. EXTEND EXISTING CIRCUIT TO THIS LOCATION. COORDINATE EXACT NEEDS AND TEMPORARY LOCATION WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.
E11	PROVIDE NEW DUST COLLECTOR AND POWER FEED. UPON COMPLETION OF INSTALL, EXISTING DUST COLLECTOR IN TEMPORARY LOCATION AND EXISTING POWER FEED WILL BE REMOVED. FOLLOW ALL GENERAL DEMOLITION NOTE GUILDELINES.
L9	ALL LIGHTING, POWER, AND MECHANICAL CONNECTIONS TO BE EXPLOSION PROOF. PROVIDE CONDUIT SEAL OFFS ON ALL CONDUITS ENTERING THE AREA.

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PANEL PROVIDE 480V 3P DUST COLLECTOR FAN. DIV. 26 TO OOP TO SAWDUST COLLECTOR ID VALKVES AS PART OF THE DIST COLLECTOR SHOP POWER TO NO RETURN VALVE AND TO MECHANICAL DIAGRAM 4/M6.10











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SHEET KEYNOTES






























METAL SHOP ADDITION 102



4X8 CNC MACHINE

SHOP ADDITION SYSTEMS FLOOR PLAN SCALE = 1/8" = 1'-0"



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GENERAL SYSTEM SHEET NOTES

FIRE ALARM DEVICES SHOWN ARE FOR REFERENCE ONLY AND BASED UPON A PERFORMANCE SPECIFICATION. ALL NEW EQUIPMENT/DEVICE QUANTITIES, LOCATION, AND ALL NATIONAL & LOCAL CODE COMPLIANCE TO BE PROVIDED AND STAMPED BY A LICENSED FIRE ALARM ENGINEER AND INCLUDED IN THE FIRE ALARM CONTRACTORS BID. IN NO WAY ARE THE DEVICES SHOWN ON THESE DRAWINGS TO BE IMPLEMENTED AS FINAL DESIGN DOCUMENTS.

- PROVIDE #14 AWG MINIMUM WIRING FOR ALL SIGNAL AND INITIATION DEVICES. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN POURED CONCRETE, PRECAST CONCRETE, MASONRY AND
- GYP WALLS. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT QUANTITY AND LOCATIONS OF ALL FIRE SPRINKLER SYSTEM TAMPER AND FLOW SWITCHES WITH FIRE SPRINKLER DRAWINGS. CONNECT ALL TAMPER AND FLOW
- SWITCHES TO FIRE ALARM SYSTEM. CONTRACTOR SHALL COORDINATE EXACT LOCATION AND QUANTITY OF ALL DUCT TYPE SMOKE DETECTORS WITH MECHANICAL CONTRACTOR. HARDWIRE TO RELAY STARTER.
- PROVIDE FIRE ALARM AND ACCESS CONTROL INTERFACE TO UNLOCK ALL INDICATED LOCKS UPON ANY FIRE
- ALARM INITIATION. ALL VISUAL DEVICES SHALL BE SYNCHRONIZED WITHIN THE BUILDING REGARDLESS OF PROJECT SCOPE
- BOUNDARIES. B. PROVIDE FIRE ALARM RELAY MODULES FOR ALL DOORS WITH ACCESS CONTROL DEVICES.
- . PROVIDE (2) DUCT TYPE SMOKE DETECTOR FOR EACH FAN COIL UNIT, AHU, SUPPLY FAN AND HEAT PUMP OF 2000 CFM OR GREATER.
- 10. PROVIDE 120V CIRCUIT FROM THE NEAREST EQUIPMENT BRANCH PANELBOARD FOR FIRE/SMOKE DAMPER RELAYS AND/OR JUNCTIONS BOXES POWER J-BOXES PROVIDED THROUGHOUT PLANS, PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH, PROVIDE DUCT DETECTOR WITHIN 5-0" OF EACH FIRE/SMOKE DAMPER, REFER TO DIAGRAM D012.
- 1. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.

SHEET KEYNOTES

- PROVIDE CONNECTION FOR NEW HEAT DETECTOR. UPON ACTIVATION, HEAT DETECTOR WILL CLOSE OVERHEAD DOORS BETWEEN THE NEW AND EXISTING SHOP AREAS. RUN SIGNAL CONTROL THROUGH COMMAND MODULE LOCATED AT OVERHEAD DOOR MOTOR. F1
- F2 PROVIDE 3/4" CONDUIT FROM MAIN TELECOM ROOM TO A STUB OUT FOR PLACEMENT OF CAMERAS BY THE SCHOOL DISTRICT. COORDINATE LOCATION WITH OWNER.
- F3 PROVIDE EXPLOSION PROOF HORN STROBE.
- F4 TIE MAGNETIC HOLD OPEN FOR DOORS TO EXISTING FIRE ALARM SYSTEM. RELEASE TO SHUT DOORS UPON FIRE ALARM SIGNAL.









FOR
DUTH SANPETE SCHOOL
CT BOARD OF EDUCATION
MAIN MANTI, UTAH 84642



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WRESTLING ADDITION DEMOLITION FLOOR PLAN ALTERNATE #1

GENERAL ELECTRICAL DEMOLITION NOTES

COORDINATE ALL NEW ELECTRICAL EQUIPMENT REQUIREMENTS AND MAKE CONNECTION TO EXISTING SYSTEMS. THIS INCLUDES LIGHTING, POWER, SIGNAL, RACEWAY AND OTHER SYSTEMS INCLUDED UNDER DIVISION 26 (16).

- RELOCATE, REWIRE AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
- CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILING, FLOORS, ETC. EXCEPT WHERE THE USE OF SURFACE METAL RACEWAYS (E.G. WIRE MOLD) IS INDICATED ON DRAWINGS OR IN SPEC.
- LEAVE ALL EXISTING EQUIPMENT, IN PORTION OF THE BUILDING NOT BEING REMODELLED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC. TO WORKING CONDITION.
- EXISTING RACEWAYS MAYBE REUSED (IN PLACE) WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. INSURE INTEGRITY OF EXISTING RACEWAY BEFORE REUSE.
- REMOVE ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED. REMOVE EXISTING LIGHT FIXTURES WHICH ARE NOT TO BE REUSED, PLACE IN CARTON, LABEL APPROPRIATELY, AND RETURN TO OWNER, OR PROPERLY DISPOSE OF FIXTURES THAT THE OWNER CHOOSES NOT TO KEEP.
- DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
- DISCONNECT AND RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK.
- 0. ALL DEMOLITION DEVICES ARE APPROCIMATE LOCATIONS. EXACT LOCATIONS NEED TO BE VERIFIED. . DIVISION 26 SHALL CONFIRM EXACT LOCATION OF EXISTING AND NEW EQUIPMENT WITH OWNERS. FIXTURE LOCATIONS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWINGS. EXISTING ELECTRICAL FIXTURES, DEVICES, EQUIPMENT, CIRCUITING AND/OR CIRCUITING AND/OR CONDUITS ARE NOT SPECIFIED UNLESS NOTED ON DRAWINGS. FINAL ROUTING OF THE CONDUITS, CIRCUITING AND CABLING SHALL BE DETERMINED BY THE CONTRACTOR AND CLOSELY COORDINATED WITH OWNER. ALL EXISTING CONDITIONS MUST BE VERIFIED WITHOUT EXCEPTION. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
- 2. DURING DEMOLITION AND NEW CONSTRUCTION, THE CONTINUATION OF BUILDING SYSTEMS MAY BE NECESSARY. TRACE AND IDENTIFY EXISTING ELECTRICAL SYSTEM (POWER, LIGHTING, FIRE ALARM AND SECURITY) WIRING IN AREAS PRIOR TO DEMOLITION. ELECTRICAL CONTRACTOR SHALL DISCONNECT ALL NECESSARY EQUIPMENT TO MAKE IT SAFE FOR DEMOLITION. WHERE LIVE CIRCUITS OR FEEDERS PASS THROUGH A REMODEL AREA, CONTRACTOR SHALL MAINTAIN ELECTRIC THROUGH. WHERE FEEDERS AND/OR BRANCH CIRCUITS FEED BOTH LOADS IN A REMODELED AREA AND OUTSIDE OF A REMODELED AREA, CONTRACTOR SHALL DISCONNECT AND REMOVE PORTIONS OF THE ELECTRICAL BRANCH CIRCUITS AND/OR FEEDERS WITHIN THE REMODELED AREA AND REWORK BRANCH CIRCUITS AND/OR FEEDERS TO MAINTAIN ELECTRICAL CONTINUITY TO LOADS OUTSIDE OF THE REMODELED AREA.
- . DEVICES AND EQUIPMENT TO BE DEMOLISHED SHALL BE REMOVED, INCLUDING ALL RELATED CONDUCTORS, RACEWAY, JUNCTION AND SPLICE BOXES UP TO THE PANELBOARD/SWITCHBOARD. ALL CONDUITS AND BOXES THAT ARE SURFACE MOUNTED AND NO LONGER REQUIRE ACTIVE CIRCUITS SHALL BE COMPLETELY REMOVED. DEVICES TO BE REMOVED ON DRYWALL OR PLASTER TYPE WALLS THAT ARE TO REMAIN SHALL HAVE THE WALL SURFACE PATCHED TO MATCH THE EXISTING FINISH. THE CONTRACTOR SHALL IDENTIFY ALL DEMOLISHED AND ABANDONED BRANCH CIRCUITS. THESE SHALL BE NOTED AS SPARE ON PANELBOARD SCHEDULES. THIS INCLUDES IDENTIFYING EXISTING ABANDONED AND SPARE CIRCUITS THAT ARE CURRENTLY IDENTIFIED AS USED. THE CONTRACTOR SHALL FURNISH NEW TYPED DIRECTORIES FOR ALL PANELBOARDS.
- 4. THE OWNER HAS THE RIGHT TO RETAIN ALL SALVAGEABLE MATERIAL. ANY MATERIAL THE OWNER CHOOSES NOT TO ACCEPT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.
- 5. FULLY COORDINATE MECHANICAL EQUIPMENT ELECTRICAL CONNECTION REMOVAL AND RELOCATION WITH THE MECHANICAL CONTRACTOR.
- 6. CONTRACTOR TO VERIFY THAT ALL EXISTING EQUIPMENT THAT IS TO REMAIN, BE REMOVED AND RE-INSTALLED ARE IN WORKING CONDITIONS. CONTRACTOR IS TO PROVIDE OWNER WRITTEN DOCUMENTATION OF ANY ITEMS NOT IN WORKING CONDITION PRIOR TO COMMENCING WORK IN AN AREA.
- CONTRACTOR IS TO PROTECT IN PLACE ALL MECHANICAL, PLUMBING, ELECTRICAL ABOVE CEILINGS. THIS MAY INCLUDE BUT NOT LIMITED TO: NETWORK CABLING, COAX CABLING, CONDUITS, PIPING, DUCTWORK, ETC. PROVIDE ADDITIONAL CABLING SUPPORTS AS REQUIRED FOR ANY UNSUPPORTED CABLING, RACEWAY, ETC.
- 8. WHERE DEVICES OR EQUIPMENT IS TO BE RELOCATED, CONTRACTOR SHALL EXTEND EXISTING CIRCUITING TO NEW LOCATION. ENSURE CIRCUIT CONTINUITY FOR OTHER DEVICES OR EQUIPMENT ON THE SAME BRANCH CIRCUIT
- 9. WHERE FLOORS ARE BEING REMOVED AND/OR REPLACED, CONTRACTOR SHALL PROTECT ELECTRICAL FEEDERS AND BRANCH CIRCUITS WHICH ARE EITHER TO REMAIN PERMANENTLY OR UNTIL DEMOLITION IN FUTURE PHASING WHILE STRUCTURAL WORK IS PERFORMED. PROVIDE ALL NECESSARY LABOR AND MATERIALS TO PERFORM WORK AS COORDINATED WITH THE CONSTRUCTION MANAGER.
- 0. ANY FIRE ALARM DEVICE(S) REMOVED DURING DEMOLITION ARE REQUIRED TO BE RELOCATED IN THE LOCATION NECESSARY TO PROVIDE COVERAGE PER NFPA 72, AND CIRCUITED SAME AS BEFORE. FIRE ALARM DEVICE(S) ARE NOT ALLOWED TO BE LOCATED CENTER OF ANY ROOM OR SPACE. IF MORE FIRE ALARM DEVICES ARE REQUIRED CONTRACTOR SHALL PROVIDE THEM COMPLETELY, REFER TO SHEET E401 FOR MORE INFORMATION.
- . SEE NEW SYSTEMS SHEETS FOR NEW FIRE ALARM INFORMATION. REMOVE EXISTING FIRE ALARM DEVICE (S) AS NECESSARY FOR REMOVAL OF CEILING SYSTEM. RE-INSTALL ONCE NEW CEILING IS INSTALLED.
- 2. REMOVE VOICE/DATA CABLING BACK TO DATA ROOM UNLESS NOTED OTHERWISE. . PROVIDE BLANK COVERPLATE ON ALL EXISTING BOXES LOCATED IN MASONRY THAT ARE NOT BEING RE-USED,
- PROVIDE BLANK COVERPLATE ON ALL UNUSED BOXES. 4. COORDINATE THE DEMOLITION, PATCH, AND REPAIR OF CEILING FOR ALL LIGHTING AND ELECTRICAL
- APPARATUSES IN THIS AREA. DISCONNECT AND RE-CONNECT AS REQUIRED TO MAINTAIN ALL SYSTEMS. 5. KEEP CLASSROOM SYSTEMS TOGETHER, LOUDSPEAKERS, AMPLIFIERS, IR SENSORS, NUMBER THEY ARE
- REMOVED FROM. BOX EACH LOCATION IN SEPARATE BOXES AND LABEL WITH CLASSROOM NUMBER PRIOR TO RETURNING TO OWNER. 6. DEVICES NOTED WITH SUBSCRIPT '(E)' DENOTES THE DEVICES ARE EXISTING AND TO REMAIN UNTOUCHED
- DURING DEMOLITION, UNLESS OTHERWISE NOTED.
- 2. DEVICES NOTED WITH SUBSCRIPT '(E)' DENOTES THE DEVICES ARE EXISTING AND TO REMAIN REMOVE AND REINSTALL DEVICES AND NOTED OR ÁS REQUIRED FOR CONSTRUCTION.
- 28. CIRCUIT #S, IF SHOWN, ARE FROM RECORD DRAWING AND SHOWN FOR REFERENCE ONLY. VERIFY EXISTING CONDITIONS PRIOR TO WORK.
- 29. DEVICES SHOWN WITH RED HATCH ARE TO BE DEMOLISHED.

SHEET KEYNOTES

- E2 EXISTING CLOCK AND INTERCOMM, PLEASE REPLACE EXISTING INTERCOM SPEAKER WITH NEW DEVICE. REFER TO AV PLANS FOR MORE INFORMATION.
- L7 REMOVE EXISTING LIGHT FIXTURES AND REUSE EXISTING CIRCUIT FOR NEW LIGHT FIXTURES. ALL LIGHTING, POWER, AND MECHANICAL CONNECTIONS TO BE EXPLOSION PROOF. PROVIDE CONDUIT SEAL L9
- OFFS ON ALL CONDUITS ENTERING THE AREA. REMOVE AND RELOCATE EXISTING SECURITY CAMERA TO NEW EXTERIOR OF BUILDING. COORDINATE THE EXACT PLACEMENT WITH THE OWNER PRIOR TO ROUGH-IN. ALSO, RELOCATE THE EXISTING SPRINGLKER CONTROL HUB TO NEW EXTERIOR WALL. ENSURE A COMPLETE AND WORKING SYSTEM. Y2

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GENERAL ELECTRICAL DEMOLITION NOTES

COORDINATE ALL NEW ELECTRICAL EQUIPMENT REQUIREMENTS AND MAKE CONNECTION TO EXISTING SYSTEMS. THIS INCLUDES LIGHTING, POWER, SIGNAL, RACEWAY AND OTHER SYSTEMS INCLUDED UNDER DIVISION 26 (16).

- 2. RELOCATE, REWIRE AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
- 3. CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILING, FLOORS, ETC. EXCEPT WHERE THE USE OF SURFACE METAL RACEWAYS (E.G. WIRE MOLD) IS INDICATED ON DRAWINGS OR IN SPEC.
- 4. LEAVE ALL EXISTING EQUIPMENT, IN PORTION OF THE BUILDING NOT BEING REMODELLED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC. TO WORKING CONDITION.
- EXISTING RACEWAYS MAYBE REUSED (IN PLACE) WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. INSURE INTEGRITY OF EXISTING RACEWAY BEFORE REUSE.
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- 8. DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
- 9. DISCONNECT AND RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK.
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 DIVISION 26 SHALL CONFIRM EXACT LOCATION OF EXISTING AND NEW EQUIPMENT WITH OWNERS. FIXTURE LOCATIONS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWINGS. EXISTING ELECTRICAL FIXTURES, DEVICES, EQUIPMENT, CIRCUITING AND/OR CIRCUITING AND/OR CONDUITS ARE NOT SPECIFIED UNLESS NOTED ON DRAWINGS. FINAL ROUTING OF THE CONDUITS, CIRCUITING AND CABLING SHALL BE DETERMINED BY THE CONTRACTOR AND CLOSELY COORDINATED WITH OWNER. ALL EXISTING CONDITIONS MUST BE VERIFIED WITHOUT EXCEPTION. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
- 12. DURING DEMOLITION AND NEW CONSTRUCTION, THE CONTINUATION OF BUILDING SYSTEMS MAY BE NECESSARY. TRACE AND IDENTIFY EXISTING ELECTRICAL SYSTEM (POWER, LIGHTING, FIRE ALARM AND SECURITY) WIRING IN AREAS PRIOR TO DEMOLITION, ELECTRICAL CONTRACTOR SHALL DISCONNECT ALL NECESSARY EQUIPMENT TO MAKE IT SAFE FOR DEMOLITION. WHERE LIVE CIRCUITS OR FEEDERS PASS THROUGH A REMODEL AREA, CONTRACTOR SHALL MAINTAIN ELECTRIC THROUGH. WHERE FEEDERS AND/OR BRANCH CIRCUITS FEED BOTH LOADS IN A REMODELED AREA AND OUTSIDE OF A REMODELED AREA, CONTRACTOR SHALL DISCONNECT AND REMOVE PORTIONS OF THE ELECTRICAL BRANCH CIRCUITS AND/OR FEEDERS WITHIN THE REMODELED AREA AND REWORK BRANCH CIRCUITS AND/OR FEEDERS TO MAINTAIN ELECTRICAL CONTINUITY TO LOADS OUTSIDE OF THE REMODELED AREA.
- 13. DEVICES AND EQUIPMENT TO BE DEMOLISHED SHALL BE REMOVED, INCLUDING ALL RELATED CONDUCTORS, RACEWAY, JUNCTION AND SPLICE BOXES UP TO THE PANELBOARD/SWITCHBOARD. ALL CONDUITS AND BOXES THAT ARE SURFACE MOUNTED AND NO LONGER REQUIRE ACTIVE CIRCUITS SHALL BE COMPLETELY REMOVED. DEVICES TO BE REMOVED ON DRYWALL OR PLASTER TYPE WALLS THAT ARE TO REMAIN SHALL HAVE THE WALL SURFACE PATCHED TO MATCH THE EXISTING FINISH. THE CONTRACTOR SHALL IDENTIFY ALL DEMOLISHED AND ABANDONED BRANCH CIRCUITS. THESE SHALL BE NOTED AS SPARE ON PANELBOARD SCHEDULES. THIS INCLUDES IDENTIFYING EXISTING ABANDONED AND SPARE CIRCUITS THAT ARE CURRENTLY IDENTIFIED AS USED. THE CONTRACTOR SHALL FURNISH NEW TYPED DIRECTORIES FOR ALL PANELBOARDS.
- 14. THE OWNER HAS THE RIGHT TO RETAIN ALL SALVAGEABLE MATERIAL. ANY MATERIAL THE OWNER CHOOSES NOT TO ACCEPT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.
- 15. FULLY COORDINATE MECHANICAL EQUIPMENT ELECTRICAL CONNECTION REMOVAL AND RELOCATION WITH THE MECHANICAL CONTRACTOR.
- 16. CONTRACTOR TO VERIFY THAT ALL EXISTING EQUIPMENT THAT IS TO REMAIN, BE REMOVED AND RE-INSTALLED ARE IN WORKING CONDITIONS. CONTRACTOR IS TO PROVIDE OWNER WRITTEN DOCUMENTATION OF ANY ITEMS NOT IN WORKING CONDITION PRIOR TO COMMENCING WORK IN AN AREA.
- 17. CONTRACTOR IS TO PROTECT IN PLACE ALL MECHANICAL, PLUMBING, ELECTRICAL ABOVE CEILINGS. THIS MAY INCLUDE BUT NOT LIMITED TO: NETWORK CABLING, COAX CABLING, CONDUITS, PIPING, DUCTWORK, ETC. PROVIDE ADDITIONAL CABLING SUPPORTS AS REQUIRED FOR ANY UNSUPPORTED CABLING, RACEWAY, ETC.
- 18. WHERE DEVICES OR EQUIPMENT IS TO BE RELOCATED, CONTRACTOR SHALL EXTEND EXISTING CIRCUITING TO NEW LOCATION. ENSURE CIRCUIT CONTINUITY FOR OTHER DEVICES OR EQUIPMENT ON THE SAME BRANCH CIRCUIT.
- 19. WHERE FLOORS ARE BEING REMOVED AND/OR REPLACED, CONTRACTOR SHALL PROTECT ELECTRICAL FEEDERS AND BRANCH CIRCUITS WHICH ARE EITHER TO REMAIN PERMANENTLY OR UNTIL DEMOLITION IN FUTURE PHASING WHILE STRUCTURAL WORK IS PERFORMED. PROVIDE ALL NECESSARY LABOR AND MATERIALS TO PERFORM WORK AS COORDINATED WITH THE CONSTRUCTION MANAGER.
- 20. ANY FIRE ALARM DEVICE(S) REMOVED DURING DEMOLITION ARE REQUIRED TO BE RELOCATED IN THE LOCATION NECESSARY TO PROVIDE COVERAGE PER NFPA 72, AND CIRCUITED SAME AS BEFORE. FIRE ALARM DEVICE(S) ARE NOT ALLOWED TO BE LOCATED CENTER OF ANY ROOM OR SPACE. IF MORE FIRE ALARM DEVICES ARE REQUIRED CONTRACTOR SHALL PROVIDE THEM COMPLETELY, REFER TO SHEET E401 FOR MORE INFORMATION.
- 21. SEE NEW SYSTEMS SHEETS FOR NEW FIRE ALARM INFORMATION. REMOVE EXISTING FIRE ALARM DEVICE (S) AS NECESSARY FOR REMOVAL OF CEILING SYSTEM. RE-INSTALL ONCE NEW CEILING IS INSTALLED.
- REMOVE VOICE/DATA CABLING BACK TO DATA ROOM UNLESS NOTED OTHERWISE.
 PROVIDE BLANK COVERPLATE ON ALL EXISTING BOXES LOCATED IN MASONRY THAT ARE NOT BEING RE-USED,
- PROVIDE BLANK COVERPLATE ON ALL UNUSED BOXES. 24. COORDINATE THE DEMOLITION, PATCH, AND REPAIR OF CEILING FOR ALL LIGHTING AND ELECTRICAL
- APPARATUSES IN THIS AREA. DISCONNECT AND RE-CONNECT AS REQUIRED TO MAINTAIN ALL SYSTEMS.
 25. KEEP CLASSROOM SYSTEMS TOGETHER, LOUDSPEAKERS, AMPLIFIERS, IR SENSORS, NUMBER THEY ARE REMOVED FROM. BOX EACH LOCATION IN SEPARATE BOXES AND LABEL WITH CLASSROOM NUMBER PRIOR TO
- 26. DEVICES NOTED WITH SUBSCRIPT '(E)' DENOTES THE DEVICES ARE EXISTING AND TO REMAIN UNTOUCHED
- DURING DEMOLITION, UNLESS OTHERWISE NOTED. 27. DEVICES NOTED WITH SUBSCRIPT '(E)' DENOTES THE DEVICES ARE EXISTING AND TO REMAIN REMOVE AND
- REINSTALL DEVICES AND NOTED OR AS REQUIRED FOR CONSTRUCTION.
- 28. CIRCUIT #S, IF SHOWN, ARE FROM RECORD DRAWING AND SHOWN FOR REFERENCE ONLY. VERIFY EXISTING CONDITIONS PRIOR TO WORK.
- 29. DEVICES SHOWN WITH RED HATCH ARE TO BE DEMOLISHED.

SHEET KEYNOTES

- E2 EXISTING CLOCK AND INTERCOMM, PLEASE REPLACE EXISTING INTERCOM SPEAKER WITH NEW DEVICE. REFER TO AV PLANS FOR MORE INFORMATION.
 L9 ALL LIGHTING, POWER, AND MECHANICAL CONNECTIONS TO BE EXPLOSION PROOF. PROVIDE CONDUIT SEAL OFFS ON ALL CONDUITS ENTERING THE AREA.
- Y2 REMOVE AND RELOCATE EXISTING SECURITY CAMERA TO NEW EXTERIOR OF BUILDING. COORDINATE THE EXACT PLACEMENT WITH THE OWNER PRIOR TO ROUGH-IN. ALSO, RELOCATE THE EXISTING SPRINGLKER CONTROL HUB TO NEW EXTERIOR WALL. ENSURE A COMPLETE AND WORKING SYSTEM.











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	SHEET KEYNOTES
	2 PROVIDE MANUAL OVERRIDE SWITCH FOR WINDOW SHADE CONTROL.
	3 PROVIDE DAYLIGHT SENSOR FOR MOTORIZED WINDOW SHADE CONTROL. PROVIDE ALL NECESSARY WIRIN FROM SENSOR TO CENTRAL CONTROLLER TO WINDOW SHADES. REFER TO POWER PLANS FOR MORE INFORMATION.
	6 EXTEND POWER FROM EXISTING LOCATIONS AND TIE INTO THE EXISTING EXTERIOR CONTROLS FOR LIGHTING. MOUNT AT THE SAME HEIGHT AS THE OTHER EXTERIOR LIGHT FIXTURES. PROVIDE POWER AND CONTROLS FOR EXTERIOR FACADE FIXTURES FROM NEARBY EXISTING CIRCUITS. EXTEND EXISTING CONNECTIONS TO THE NEW LOCATIONS.
	LIGHTING GENERAL SHEET NOTES
1.	REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL FIXTURE LOCATIONS WITHIN A CEILING OR CEILING GRID. FOR AREAS WITHOUT CEILINGS, FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS. COORDINATE WITH PAINTING CONTRACTOR FOR PAINTING OF EXPOSED RACEWAY.
2.	FIELD VERIFY EXACT FIXTURE LENGTHS FOR CONTINUOUS ILLUMINATION FOR COVES AND LINEAR RUNS. PROVIDE CONTINUOUS ILLUMINATION WITH NO MORE THAN A 1" GAP BETWEEN THE END OF THE EDGE OF THE WALL / CEILING AND THE FIXTURE.
3.	ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR PLACEMENT OF FIXTURES WITHIN MECHANICAL ROOMS.
4.	ALL ROOM CONTROLLERS AND/OR POWER PACKS SHALL BE INSTALLED IN THE CEILING SPACE DIRECTLY ABOVE THE ENTRY DOOR TO THE SPACE IT IS CONTROLLING.
5.	ALL UNDERCABINET LIGHTS MUST BE COORDINATED WITH MILLWORK FOR EXACT LENGTHS. ALL UNDERCABINET LIGHTS SHALL BE COORDINATED WITH MILLWORK SHOP DRAWINGS.
6.	PROVIDE 0-10V DIMMING CONDUCTORS FOR ALL AREAS AND/OR ROOMS WHERE 0-10V DIMMING IS INDICATED BY THE RELAY PANEL SCHEDULE AND/OR WALL STATION CONTROL SEQUENCE.
7.	SUBSCRIPT ADJACENT TO LIGHT FIXTURE INDICATES CONTROLS, PROVIDE LIGHTING CONTROLS WITH THE REQUIRED NUMBER OF RELAY/DIMMERS. PROVIDE ADDITIONAL RELAY/DIMMERS FOR DAYLIGHT ZONES AS REQUIRED.
8.	SEE CORRESPONDING LIGHTING DIAGRAMS FOR GENERAL INSTALLATION REQUIREMENTS, CONNECTIONS, AND CABLE TYPES.
9.	PROVIDE UNSWITCHED NORMAL CIRCUIT HOT LEG TO ALL EMERGENCY POWER CONTROL DEVICES FOR PROPER POWER SENSING.
10.	PROVIDE UNSWITCHED HOT AHEAD OF RELAY, OCCUPANCY SENSOR, OR SWITCH TO ALL EXIT SIGNS, IF SHOWN, SUBSCRIPT NEAR LIGHT FIXTURES INDICATES CONTROL INTENT. PROVIDE LIGHTING CONTROLLERS WITH THE REQUIRED NUMBER OF RELAYS/DIMMERS.
11.	MANUFACTURER'S REPRESENTATIVE FOR DIVISION 26 AND BIDDING CONTROLS SHALL BE ACCOUNTABLE FOR THE COMPREHENSIVE LIGHTING CONTROLS PACKAGE'S FINALIZATION IN ALIGNMENT WITH THE DESIGN INTENT DEPICTED IN THE DRAWINGS AND COMPLYING WITH IECC 2021 REQUIREMENTS, THE LIGHTING REPRESENTATIVE IS REQUIRED TO DEVELOP DETAILED SHOP DRAWINGS DEMONSTRATING THE LIGHTING CONTROL SYSTEM'S TOPOLOGY AND THE ESSENTIAL CONNECTIONS NECESSARY FOR ITS PROPER FUNCTIONING, LIGHTING CONTROL DEVICES SHOWN ARE TO PROVIDE GENERAL INTENT ONLY. MANUFACTURERS REPRESENTATIVE TO PROVIDE ALL ADDITIONAL DEVICES AND MODIFY DEVICE LOCATIONS AS REQUIRED TO MEET ECC 2021 REQUIREMENTS.
12.	PROVIDE ADDITIONAL RELAYS/DIMMERS FOR DAYLIGHT ZONES AS NEEDED. PROVIDE 0-10V DIMMING FOR ALL AREAS AND/OR ROOMS WHERE 0-10V DIMMING IS INDICATED BY THE WALLSTATION CONTROL SEQUENCE AND OR BY TYPE OF CONTROL INTERFACE SHOWN.
13.	CAREFULLY COORDINATE FIXTURE PLACEMENT WITHIN BAFFLED CEILINGS, PENDANT MOUNTED FIXTURES SHALL BE MOUNTED AT THE SAME ELEVATION AS BAFFLES. COORDINATE WITH ARCHITECTURAL RCP AND DETAILS PRIOR TO ROUGHAN-IN.
14.	PROVIDE CONDUIT FROM DEVICE TO DEVICE IN OPEN AND/OR EXPOSED CEILINGS, CEILINGS WITH CLOUDS ARE CONSIDERED OPEN/EXPOSED CEILINGS. NO EXPOSED CABLES SHALL BE SEEN FROM BELOW.
15.	WHERE INDICATED ON FIXTURE SCHEDULE AND/OR PROVIDED BY THE FIXTURE MANUFACTURER, ALL REMOTE DRIVERS SHALL BE LOCATED IN THE NEAREST ACCESSIBLE CEILING, DIVISION 26 SHALL UPSIZE CONDUCTORS BETWEEN DRIVER AND FIXTURE(S) AS REQUIRED BY MANUFACTURER TO MAINTAIN AN ACCEPTABLE VOLTAGE DROP RANGE. DIVISION 26 TO DETERMINE FINAL LOCATION AND PROVIDE A DESIGNATION MARKER (GREEN DOT) AT THE CEILING TO ALLOW FOR EASY FUTURE MAINTENANCE.
	IGHTING SENSOR GENERAL NOTES
1.	THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE SENSOR MANUFACTURER FOR PROPER PLACEMENT AND ADJUSTMENT OF OCCUPANCY SENSORS.
2.	EACH ZONE SHALL HAVE COVERAGE BY OCCUPANCY SENSOR SUCH THAT NO BLIND SPOT EXIST.
3.	UPON COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL BE COMPLETELY COMMISSIONED BY THE MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ALL ADJUSTMENTS AND SENSOR PLACEMENT TO ENSURE A TROUBLE-FREE INSTALLATION.

- 4. THE LOCATION AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS WHICH ARE TO BE PROVIDED WITH SENSORS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS AS REQUIRED TO PROPERLY COVER THE RESPECTIVE ROOM.
- 5. PROVIDE DAYLIGHT ZONE CONTROL REQUIREMENTS PER IECC-2015 C405.2.2.3. LOCATE DAYLIGHT SENSOR(S) PER MANUFACTURER'S RECOMMENDATION AND WHERE REQUIRED WITHIN THE ROOM FOR PROPER COVERAGE.
- 6. PROVIDE OCCUPANCY SENSOR WITH AN ADDITIONAL SET OF DRY CONTACTS FOR HVAC CONTROL AT EACH VAV BOX LOCATION.

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WRESTLING ADDITION LIGHTING PLAN ALTERNATE #3 SCALE = 1/8" = 1'-0"

1.	REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL FIXTURE LOCATIONS WITHIN A CEILI CEILING GRID. FOR AREAS WITHOUT CEILINGS, FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT
	ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS. COO WITH PAINTING CONTRACTOR FOR PAINTING OF EXPOSED RACEWAY.
2.	FIELD VERIFY EXACT FIXTURE LENGTHS FOR CONTINUOUS ILLUMINATION FOR COVES AND LINEAR RUPROVIDE CONTINUOUS ILLUMINATION WITH NO MORE THAN A 1" GAP BETWEEN THE END OF THE EDG WALL / CEILING AND THE FIXTURE.
3.	ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR PLACEMENT OF F WITHIN MECHANICAL ROOMS.
4.	ALL ROOM CONTROLLERS AND/OR POWER PACKS SHALL BE INSTALLED IN THE CEILING SPACE DIREC ABOVE THE ENTRY DOOR TO THE SPACE IT IS CONTROLLING.
5.	ALL UNDERCABINET LIGHTS MUST BE COORDINATED WITH MILLWORK FOR EXACT LENGTHS. ALL UNDERCABINET LIGHTS SHALL BE COORDINATED WITH MILLWORK SHOP DRAWINGS.
6.	PROVIDE 0-10V DIMMING CONDUCTORS FOR ALL AREAS AND/OR ROOMS WHERE 0-10V DIMMING IS IND BY THE RELAY PANEL SCHEDULE AND/OR WALL STATION CONTROL SEQUENCE.
7.	SUBSCRIPT ADJACENT TO LIGHT FIXTURE INDICATES CONTROLS, PROVIDE LIGHTING CONTROLS WITH REQUIRED NUMBER OF RELAY/DIMMERS. PROVIDE ADDITIONAL RELAY/DIMMERS FOR DAYLIGHT ZONI REQUIRED.
8.	SEE CORRESPONDING LIGHTING DIAGRAMS FOR GENERAL INSTALLATION REQUIREMENTS, CONNECT AND CABLE TYPES.
9.	PROVIDE UNSWITCHED NORMAL CIRCUIT HOT LEG TO ALL EMERGENCY POWER CONTROL DEVICES F PROPER POWER SENSING.
10.	PROVIDE UNSWITCHED HOT AHEAD OF RELAY, OCCUPANCY SENSOR, OR SWITCH TO ALL EXIT SIGNS SHOWN, SUBSCRIPT NEAR LIGHT FIXTURES INDICATES CONTROL INTENT. PROVIDE LIGHTING CONTRO WITH THE REQUIRED NUMBER OF RELAYS/DIMMERS.
11.	MANUFACTURER'S REPRESENTATIVE FOR DIVISION 26 AND BIDDING CONTROLS SHALL BE ACCOUNTATHE COMPREHENSIVE LIGHTING CONTROLS PACKAGE'S FINALIZATION IN ALIGNMENT WITH THE DESIGN INTENT DEPICTED IN THE DRAWINGS AND COMPLYING WITH IECC 2021 REQUIREMENTS, THE LIGHTING REPRESENTATIVE IS REQUIRED TO DEVELOP DETAILED SHOP DRAWINGS DEMONSTRATING THE LIGH CONTROL SYSTEM'S TOPOLOGY AND THE ESSENTIAL CONNECTIONS NECESSARY FOR ITS PROPER FUNCTIONING, LIGHTING CONTROL DEVICES SHOWN ARE TO PROVIDE GENERAL INTENT ONLY. MANUFACTURERS REPRESENTATIVE TO PROVIDE ALL ADDITIONAL DEVICES AND MODIFY DEVICE LOCAS REQUIRED TO MEET ECC 2021 REQUIREMENTS.
12.	PROVIDE ADDITIONAL RELAYS/DIMMERS FOR DAYLIGHT ZONES AS NEEDED. PROVIDE 0-10V DIMMING AREAS AND/OR ROOMS WHERE 0-10V DIMMING IS INDICATED BY THE WALLSTATION CONTROL SEQUE OR BY TYPE OF CONTROL INTERFACE SHOWN.
13.	CAREFULLY COORDINATE FIXTURE PLACEMENT WITHIN BAFFLED CEILINGS, PENDANT MOUNTED FIXT SHALL BE MOUNTED AT THE SAME ELEVATION AS BAFFLES. COORDINATE WITH ARCHITECTURAL RCF DETAILS PRIOR TO ROUGHAN-IN.
14.	PROVIDE CONDUIT FROM DEVICE TO DEVICE IN OPEN AND/OR EXPOSED CEILINGS, CEILINGS WITH CL ARE CONSIDERED OPEN/EXPOSED CEILINGS. NO EXPOSED CABLES SHALL BE SEEN FROM BELOW.
15.	WHERE INDICATED ON FIXTURE SCHEDULE AND/OR PROVIDED BY THE FIXTURE MANUFACTURER, ALI REMOTE DRIVERS SHALL BE LOCATED IN THE NEAREST ACCESSIBLE CEILING, DIVISION 26 SHALL UPS CONDUCTORS BETWEEN DRIVER AND FIXTURE(S) AS REQUIRED BY MANUFACTURER TO MAINTAIN AN ACCEPTABLE VOLTAGE DROP RANGE. DIVISION 26 TO DETERMINE FINAL LOCATION AND PROVIDE A DESIGNATION MARKER (GREEN DOT) AT THE CEILING TO ALLOW FOR EASY FUTURE MAINTENANCE.
	LIGHTING SENSOR GENERAL NOT
1.	THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE SENSOR MANUFACT
2.	EACH ZONE SHALL HAVE COVERAGE BY OCCUPANCY SENSOR SUCH THAT NO BLIND SPOT EXIST.
3.	UPON COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL BE COMPLETELY COMMISSIONED BY MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ALL ADJUSTMENTS AND SE PLACEMENT TO ENSURE A TROUBLE-FREE INSTALLATION.
4.	THE LOCATION AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND II ONLY THE ROOMS WHICH ARE TO BE PROVIDED WITH SENSORS. THE ELECTRICAL CONTRACTOR SHA PROVIDE ADDITIONAL SENSORS AS REQUIRED TO PROPERLY COVER THE RESPECTIVE ROOM.
5.	PROVIDE DAYLIGHT ZONE CONTROL REQUIREMENTS PER IECC-2015 C405.2.2.3. LOCATE DAYLIGHT SE PER MANUFACTURER'S RECOMMENDATION AND WHERE REQUIRED WITHIN THE ROOM FOR PROPER COVERAGE.

L2	PROVIDE MANUAL OVERRIDE SWITCH FOR WINDOW SHADE CONTROL.
L3	PROVIDE DAYLIGHT SENSOR FOR MOTORIZED WINDOW SHADE CONTROL. PROVIE FROM SENSOR TO CENTRAL CONTROLLER TO WINDOW SHADES. REFER TO POWE INFORMATION.
L5	PROVIDE POWER FROM EXISTING LIGHTING CIRCUIT WITHIN THE SPACE.
L6	EXTEND POWER FROM EXISTING LOCATIONS AND TIE INTO THE EXISTING EXTERIO

EATEND POWER FROM EXISTING LOCATIONS AND TIE INTO THE EXISTING EXTERIOR CONTROLS FOR LIGHTING. MOUNT AT THE SAME HEIGHT AS THE OTHER EXTERIOR LIGHT FIXTURES. PROVIDE POWER AND CONTROLS FOR EXTERIOR FACADE FIXTURES FROM NEARBY EXISTING CIRCUITS. EXTEND EXISTING CONNECTIONS TO THE NEW LOCATIONS. PROVIDE NEW LIGHTING CONTROLS WITHIN SPACE.

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POWER GENERAL SHEET NOTES

- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.
- CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
- FOR VAV POWER, PROVIDE A DEDICATED 120V/20A CIRCUIT FROM A PANEL LOCATED IN THE ELECTRICAL ROOM OF THE ASSOCIATED QUADRANT. COORDINATE EXACT LOCATION OF ALL VAV BOXES WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- PROVIDE 120V CIRCUIT FROM THE NEAREST PANELBOARD FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. PROVIDE DUCT DETECTOR WITHIN 5 FEET OF EACH FIRE/SMOKE DAMPER.
- . COORDINATE PLACEMENT OF ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN. WHERE DEVICES ARE SHOWN IN SAME WALL SPACE, ALIGN VERTICALLY AND HORIZONTALLY, COORDINATE WITH ARCHITECTURAL DRAWINGS, ATHLETIC SAFETY WALL PADDING AND CABINETRY DRAWINGS.
- ALL THE LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIO/VISUAL EQUIPMENT, SOUND AMPLIFICATION, ETC, TO BE ROUTED THROUGH CONDUIT IN EXPOSED AND CLOUDED CEILING AREAS.
- ALL LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIO/VISUAL EQUIPMENT, CLASSROOM SOUND AMPLIFICATION, ETC, TO BE PROPERLY SUPPORTED PER THE TELE/DATA SPEC, AND AT 5'-0" INTERVALS AND TO FOLLOW BUILDING STRUCTURAL LINES. PULLING WIRE DIAGONALLY ACROSS ROOMS IS NOT ALLOWED, USING CEILING SYSTEM OR LIGHT FIXTURE SUPPORT/SEISMIC WIRES FOR SUPPORT IS NOT ALLOWED.
- PROVIDE GFC PROTECTION ON ALL DEVICES AND EQUIPMENT PER THE NEC REQUIREMENTS, DEVICES SHALL BE READILY ACCESSIBLE, IF ANY OUTLET IS INSTALLED WITHIN 6 FEET OF OUTSIDE EDGE OF SINK, CONTRACTOR SHALL PROVIDE GFCI RECEPTACLE PER NEC, WHETHER SHOWN OR NOT. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR, CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS
- NOTED OTHERWISE. 10. FOR VAV POWER, PROVIDE A DEDICATED 120V/20A CIRCUIT FROM A PANEL LOCATED IN THE ELECTRICAL ROOM OF THE ASSOCIATED QUADRANT, COORDINATE EXACT LOCATION OF ALL VAV BOXES WITH
- MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. . PROVIDE 120V CIRCUIT FROM NEAREST PROVIDED CIRCUIT FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH, PROVIDE DUCT DETECTOR WITHIN 5 FEET OF EACH FIRE/SMOKE DAMPER.
- 2. CONTRACTOR TO COORDINATE ALL LOCATIONS OF FIRE/SMOKE AND SMOKE DAMPERS WITH MECHANICAL CONTRACTOR. CONTRACTOR TO PROVIDE POWER, MONITOR MODULES, AND RELAYS AS REQUIRED FOR A COMPLETE SYSTEM.
- 13. DIVISION-26 IS RESPONSIBLE TO PROVIDE CONDUIT AND ROUGH-IN FOR ALL THERMOSTAT CONTROLS LOCATED WITH WALLS. COORDINATE WITH THE CONTROLS CONTRACTOR AND VERIFY EXCAT LOCATION OF ALL THERMOSTATS.
- 14. DEVICES NOTED WITH SUBSCRIPT '(E)' DENOTES THE DEVICES ARE EXISTING AND TO REMAIN UNTOUCHED DURING DEMOLITION, UNLESS OTHERWISE NOTED. 15. CIRCUIT #S, IF SHOWN, ARE FROM RECORD DRAWING AND SHOWN FOR REFERENCE ONLY. VERIFY EXISTING CONDITIONS PRIOR TO WORK.

SHEET KEYNOTES

E14 PROVIDE POWER FOR MOTORIZED WINDOW SHADES. 120V, 2A CONNECTION. PROVIDE CONTROLS VIA DAYLIGHTING SENSORS SHOWN ON LIGHTING PLANS. ALSO PROVIDE MANUAL OVERRIDE CONTROLS ON A LOCAL WALL STATION. COORDINATE EXACT REQUIREMENTS WITH WINDOW SHADE SHOP DRAWINGS.











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WRESTLING ADDITION SYSTEMS FLOOR PLAN BID ALTERNATE #1 SCALE = 1/8" = 1'-0"

SHEET KEYNOTES

Y1 PROVIDE A STUB OUT FOR PLACEMENT OF CAMERAS BY DISTRICT. COORDINATE LOCATION WITH OWNER.













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LOUDSPEAKER TYPES A = ARRAY, CABINET, CLUSTER C = CEILING RECESSED P = PENDANT MOUNTED R = WALL RECESSED S = CEILING SURFACE MOUNTEI W = WALL SURFACE MOUNTED SYSTEM LOUDSPEAKER IDENTIFIER BLANK = SYSTEM SPECIFIC I = INTERCOM SYSTEM SM = SOUND MASKING SYSTEM

IGHT FROM SPLAY PE	MOUNT TYPES CLG = CEILING (POLE) MOUNT F = FLAT MOUNT T = TILT MOUNT R = RECESSED MOUNT S = ARTICULATING MOUNT H = ADJUSTABLE HEIGHT MOUNT*
E AND/OR INOLOGY	MONITOR TYPES D = TYPICAL COMMERCIAL GRADE S = INTERACTIVE COMMERCIAL GRADE V = VIDEO WALL (SLIM BEZEL) L = DIRECT VIEW LED PRODUCT * HEIGHT INDICATED IS THE MAX HEIGHT MOUNT SHALL ADJUST DOWN

PROTOCOL ID: A = AUDIO C = CONTROL H = HDBaseT N = UTP/NETWORK V = VIDEO U = USB
UNIQUE ID CONNECTION POI DIAGRAM CONTINUATION REFERENCE

CABLING GROUPS AND CONDUIT SEPARATION SCHEDULE

AUDIO AND VIDEO WIRING TYPES: AUDIO AND VIDEO SYSTEM WIRING IS DIVIDED INTO WIRING GROUPS ACCORDING TO THEIR NOMINAL LEVELS:

GROUP	WIRING TYPE			
GROUP 1	FIBER OPTIC CABLE			
GROUP 2	O mV TO 100 mV SIGNALS, EXAMPLE: MICROPHONE LEVEL SIGNAL			
GROUP 3	100 mV TO 10 V SIGNALS, EXAMPLE: LINE-LEVEL SIGNAL			
GROUP 4	10 V TO 70 V SIGNALS, EXAMPLE: SPEAKER LEVEL SIGNAL			
GROUP 5 CONTROL, DIGITAL CIRCUITS, DATA AND VIDEO				
E: GROUPS LISTED ABOVE SHALL NEVER BE COMBINED WITHIN THE SAME CONDUIT				

AUDIO AND VIDEO CONDUIT SEPARATION MINIMUM CONDUIT SEPARATION BETWEEN CONDUITS CARRYING WIRING OF DIFFERENT AUDIO AND VIDEO GROUPS IS AS FOLLOWS:

GROUP	GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5
GROUP 1	ADJACENT	ADJACENT	ADJACENT	ADJACENT	ADJACENT
GROUP 2	ADJACENT	ADJACENT	6"	12"	12"
GROUP 3	ADJACENT	6"	ADJACENT	12"	6"
GROUP 4	ADJACENT	12"	12"	ADJACENT	6"
GROUP 5	ADJACENT	12"	6"	6"	ADJACENT

ELECTRICAL CONDUIT SEPARATION

MINIMUM CONDUIT SEPARATION BETWEEN CONDUITS CARRYING AUDIO AND VIDEO WIRING AND OTHER ELECTRICAL SERVICE CONDUIT IS AS FOLLOWS:						
	<u>GROUP 1</u>	<u>GROUP 2</u>	<u>GROUP 3</u>	<u>GROUP 4</u>	<u>GROUP 5</u>	
277/480V AC CIRCUIT	ADJACENT	24"	24"	24"	24"	
120/208V AC CIRCUIT ADJACENT 24" 12" 12" 24"						
NOTE: CONDUITS SHALL NOT RUN MORE THAN 20 FEET IN PARALLEL WITHIN THE GIVEN DISTANCES ABOVE.						

AUDIOVISUAL CABLE AND CONDUIT SCHEDULE

OTES	OTES:						
. AF	PROVED EQUALS FROM OTHER	R MANUFACTURERS ARE BELDE	N, GEPCO/GENERA	L, ICE, KRAMER, EXT	RON,		
CF	CRESTRON, LIBERTY CABLE, AND WINDY CITY WIRE.						
. PF		S IN ANY "AIR HANDLING" SPACE	S E.G. ABOVE CEILI	NGS, RAISED FLOOR	S,		
	NOES, ETC. BLE OLIANTITY INDICATED ON I	DRAWINGS SHOWS ON FINAL RI			R		
. O/ SII	NGLE DEVICE.		N. II NOT NOTED I		`		
CC	NDUIT REQUIREMENTS SHOW	N ARE MINIMUM CONDUIT SIZE F	REQUIRED FOR A SI	NGLE CABLE, UNLESS	S		
OT	HERWISE NOTED ON DRAWING	S. NUMBER OF CABLES LISTED	IS THE MAXIMUM A	MOUNT ALLOWED FO	R		
CC	ONDUIT SIZE INDICATED.						
. WI	HEN COMBINING CABLE TYPES	OF THE SAME GROUP, THE TYPI	E WITH THE LARGES	ST CONDUIT REQUIRE	EMENT		
	CIATES CONDUIT SIZE.				/F		
. РГ НГ	MI EXTENSION DEVICE	DINGER THAN 35 OR WITH MORE	THAN (3) CONNECT	HON POINTS (1) ACTIV			
. AL	L CATEGORY CABLE SHALL BE	TESTED AND CERTIFIED TO ANS	SI/TIA/EIA-568C AND	IEEE 802.3an STANDA	ARDS		
US	SING A LEVEL IIIe TESTER.						
. RE	REFER TO SPECIFICATIONS FOR STP CABLE REQUIREMENTS. ALL UNSHIELDED (UTP) CATEGORY CABLES						
WI	THIN THE PROJECT SHALL BE S	SUPPLIED FROM A SINGLE MANU	IFACTURER AND MA	ATCH MAKE/MODEL.			
. HL	OMI CABLES ARE INTENDED TO	PASS 4K 60 4:4:4 FROM SOURCE	TO DESTINATION.	CONTRACTOR TO VEH	≺IFY		
	THE LENGTH OF ALL CABLES USED MEET THIS REQUIREMENT.						
	INDICATES DEFAULT CABLE IF MANUFACTURER DOES NOT RECOMMEND A SPECIFIC CABLE.						
PE	INDICATES DEFAULT CABLE IF HORIZONTAL CABLING IS EXCLUDED FROM THE PROJECT AND NOT OWNER						
YPE	DESCRIPTION	CONDUIT REQUIREMENTS	MANUFACTURER	MODEL NUMBER	GROUP		
)AT	ANTENNA, COAXIAL RG8X	1" CONDUIT = (7) CABLES	WEST PENN	807 *	5		
		T 1/2 CONDOLL - (12) CABLES					

ŧ)AT	ANTENNA, COAXIAL RG8X	1 $1/2$ " CONDUIT = (12) CABLES	WEST PENN	807 *	5
ŧ)CT	CONTROL, 2/22 SHIELDED, 2/18 UNSHIELDED	1" CONDUIT = (7) CABLES 1 1/4" CONDUIT = (12) CABLES	WEST PENN	77350 * D25350 (P) *	5
)HD	HDMI < 20', ULTRA FLEXIBLE	1 1/4" CONDUIT = (1) CABLES 2" CONDUIT = (3) CABLES	EXTRON CRESTRON	HDMI ULTRA/## CBL-HD-##	5
!)HD	HDMI > 20'	1 1/4" CONDUIT = (1) CABLES 2" CONDUIT = (3) CABLES	EXTRON KRAMER	HDMI PRO P/XX CP-HM/HM/ETH (P)	5
ŧ)LA €)MA	LINE LEVEL, 22 AWG MICROPHONE, 22 AWG	1" CONDUIT = (23) CABLES 1 1/2" CONDUIT = (77) CABLES	WEST PENN	291 D25454 (P)	3 2
MFB	MULTIMODE FIBER OPTIC	1" CONDUIT MINIMUM	PER SPEC	27 1500	1
RG6	RG-6 COAXIAL CABLE	1" CONDUIT = (8) CABLES 1 1/2" CONDUIT = (18) CABLES	WEST PENN	841 25841 (P)	5
RG11	RG-11 COAXIAL CABLE	1" CONDUIT = (3) CABLES 1 1/4" CONDUIT = (6) CABLES	WEST PENN	821 D25821 (P)	5
)S12	SPEAKER, 12 AWG	1" CONDUIT = (3) CABLES 1 1/2" CONDUIT = (7) CABLES 2" CONDUIT = (11) CABLES	WEST PENN	227 25227B (P)	4
)S16	SPEAKER, 16 AWG	1" CONDUIT = (10) CABLES 1 1/4" CONDUIT = (17) CABLES	WEST PENN	225 25225B (P)	4
)SFB	SINGLE MODE FIBER OPTIC	1" CONDUIT MINIMUM	PER SPEC	27 1500	1
)STP	SHIELDED TWISTED PAIR, CAT 6A	1" CONDUIT = (4) CABLES 1 1/4" CONDUIT = (8) CABLES	PER MFG WEST PENN	4246AF * 254246AF (P) *	5
UTP	UN-SHIELDED TWISTED PAIR CAT 6	1" CONDUIT = (9) CABLES 1 1/4" CONDUIT = (15) CABLES	PER SPEC WEST PENN	4246 ** 254246 (P) ** SPEC 27 1500	5
!)VG	HIGH RESOLUTION VIDEO	1" CONDUIT = (1) CABLES 1 1/4" CONDUIT = (4) CABLES	WEST PENN	5CRGB 255CRGB (P)	5
)SDI	SERIAL DIGITAL INTERFACE (RG-6 COAX)	1" CONDUIT = (8) CABLES 1 1/2" CONDUIT = (18) CABLES	WEST PENN	841 25841 (P)	5
USB	USB EXTENSION CABLE	1" CONDUIT = (3) CABLES 1 1/4" CONDUIT = (10) CABLES	CABLES TO GO	52108	5
ŧ)X#	MANUFACTURER PROPRIETARY CABLE	AS NOTED	SPEC. 27 4100	SPEC. 27 4100	NA

ABBREVIATIONS INDEX

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
#	NUMBER	MEP	MECHANICAL, ELECTRICAL AND PLUMBING
AFF	ABOVE FINISH FLOOR	MFG	MANUFACTURER
ARCH	ARCHITECTURE	MAX	MAXIMUM
AUX	AUXILIARY	MIC	MICROPHONE
AWG	AMERICAN WIRE GAUGE	MIN	MINIMUM
BC	BARE COPPER	MTG	MOUNTING
С	CONDUIT	N/A	NOT APPLICABLE
CATV	CABLE TELEVISION	NIC	NOT IN CONTRACT
CLG	CEILING	NTS	NOT TO SCALE
CNTR	CONTRACTOR	PLEN	PLENUM
CU	COPPER	(R)	RELOCATE
C/W	COMPLETE WITH	RECPT	RECEPTACLE
DWG	DRAWING	SPEC	SPECIFICATIONS
(E)	EXISTING	SPKR	SPEAKER
FT	FOOT	TV	TELEVISION
GND	GROUND	TYP	TYPICAL
IG	ISOLATED GROUND	UG	UNDERGROUND
IN	INCH	UPS	UNINTERRUPTED POWER SUPPLY
J-BOX	JUNCTION BOX	W	WATTS
LTG	LIGHTING	W/O	WITHOUT

1. HEIGH	T MEASURED TO BOTTOM OF THE DEVICE FROM FINISHED
2. HEIGH	T MEASURED TO CENTER LINE OF THE DEVICE FROM THE
FINISH 3. REFER	ED FLOOR. TO DIAGRAMS AND ELEVATIONS FOR CUSTOM ROUGH-IN
REQUII	REMENTS. ARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON
PLANS 5. ROUCH	
6. ROUGH	1-IN TO BE INSTALLED ABOVE ACCESSIBLE CEILING.
8. DEVICE	1-IN TO BE INSTALLED ABOVE CEILING. E IS TYPICALLY LOCATED IN MILLWORK, FURNITURE, BEHIN
9. ABOVE	OR OR ABOVE A PROJECTOR. TABLE/COUNTER MOUNTED DEVICE.
10. REFER	TO MANUFACTURER'S RECOMMENDED CABLE REQUIREME
11. FOLLO	W BICSI STANDARDS FOR CABLE ROUTING AND DISTANCES
12. JUNCI BE NOT	TED WHEN JUNCTION BOX SIZE REQUIREMENTS ARE
DIFFEF 13. MOUNT	RENT FROM INDICATED. FING HEIGHT SHOWN IS FROM THE BOTTOM OF THE MONITO
TO THE	FINISHED FLOOR.
SYMBOL	DESCRIPTION
(M#)	MICROPHONE INPUT, WALL PLATE (M1/M2 = D1, M3/M4 = D
AX	AUXILIARY INPUT. 3.5MM/RCA CONNECTION. WALL PLATE
Т	AUDIO OUTPUT, WALL PLATE, T = XLR MALE CONNECTION
	TS = 1/4 TS CONNECTION
MA	MICROPHONE INPUT WITH AUXILIARY INPUT, WALL PLATE
MC	MICROPHONE INPUT, CEILING
MB	TABLE TOP BOUNDARY MICROPHONE
MW	WALL MOUNTED, PUSH TO TALK MICROPHONE
MDT	DUAL MICROPHONE INPUT, WALL PLATE, UTP TRANSMITT
	EXTENDER MICROPHONE AND AUXILIARY INPUT, WALL PLATE,
MAT	UTP TRANSMITTER EXTENDER
MXT	UTP TRANSMITTER AUDIO ENCODER
MT	DUAL MICROPHONE INPUT/OUTPUT WALL PLATE, UTP TRANSMITTER AUDIO ENCODER
M2D	DUAL MICROPHONE INPUT/OUTPUT WALL PLATE,
M4D	FOUR MICROPHONE INPUT WALL PLATE,
	BLUETOOTH AND AUXILIARY INPUT, WALL PLATE,
	UTP TRANSMITTER AUDIO ENCODER
	CREWCOM HEADSET INPUT, WALL PLATE
CIS	CREWCOM WALL STATION, WALL PLATE
BT	BLUETOOTH, WALL PLATE, AUDIO EXTENDER
VG	VGA INPUT. WALL PLATE
HV	HDMI AND VGA INPUT, WALL PLATE
EN#	AVoIP ENCODER, WALL PLATE (# IDENTIFIES UNIQUE PLA
DC#	AVoIP DECODER, WALL PLATE (# IDENTIFIES UNIQUE PLATE)
TxH	HDBaseT, HDMI INPUT TRANSMITTER, WALL PLATE
TxD	
	HDBaseT, HDMI, DISPLAY PORT AND/OR VGA TRANSMITTE
	SURFACE MOUNTED
	HDBaseT CATEGORY INPUT, WALL PLATE
RxH	HDBaseT, HDMI RECEIVER, WALL PLATE
US	USB INPUT, WALL PLATE, UTP EXTENSION
Rx	HDBaseT RECEIVER DEVICE, SURFACE MOUNTED
CHV	HDMI AND VGA TRANSMITTER, WALL PLATE (CLASSROOM
CHD	DUAL HDMI TRANSMITTER, WALL PLATE (CLASSROOM SY
	HDMI AND LISB TRANSMITTER WALL PLATE
CAL	2-WAY INTERCOMMUNICATION PUSHBUTTON STATION
(CSA)	CLASSROOM SOUND AMPLIFICATION SYSTEM
IR	INFRARED SENSOR, WALL/CEILING
ALS	ASSISTIVE LISTENING SYSTEM ANTENNA/EMITTER, WALL
AT	AV ANTENNA, WALL/CEILING
V	VOLUME CONTROL
SV	
	TOUCH PANEL, TABLE TOP
TP#	FOR TOUCH PANEL TYPE AND ORIENTATION
KP#	RETPAD, WALL MOUNTED, REFER TO SPECIFICATIONS
RS#	ROOM SCHEDULING TOUCHPANEL
TB#	ABLE/FURNITURE BOX, NUMBER REFERS TO TYPE
	LOUDSPEAKER, WALL MOUNTED
	LOUDSPEAKER ARRAY CARINET CLUSTER
	LOUDSPEAKER, CEILING RECESSED OR PENDANT
SB#	SOUND BAR, REFER TO SPECIFICATIONS FOR TYPE
X##)	DISPLAY, REFER TO SPECIFICATIONS FOR DISPLAY TYPE
SC#	PROJECTION SCREEN REFER TO SPECIFICATIONS FOR SCREEN TYPE AND SIZE
P# [⊲]	PROJECTOR
	AV CAMERA
	EQUIPMENT CEILING RACK
	EQUIPMENT 2-POST CABINET/RACK
GP#	PASS THROUGH PLATE, # = NUMBER OF GANGS
J	JUNCTION BOX, ABOVE ACCESSIBLE CEILING
C##)	CUSTOM JUNCTION BOX, REFER TO SCHEDULE AND DIAG
FB	FLOOR BOX - REFER TO ELECTRICAL DOCUMENTS FOR
	MAKE/MODEL - REFER TO DIAGRAMS FOR AV DEVICE LAY POKE THRU - REFER TO ELECTRICAL DOCUMENTS FOR
(PI)	MAKE/MODEL - REFER TO DIAGRAMS FOR AV DEVICE LAY
	CONDUIT RUN CONCEALED IN WALL OR CEILING
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND
0	CONDUIT UP
•	CONDUIT DOWN
	CONDUIT STUB LOCATION
ر	CONDUIT/CIRCUIT CONTINUATION
ر	
*	ELEVATION VIEW TAG (# = VIEW NUMBER, ## = SHEET NU
#	DIAGRAM CALLOUT TAG

NOTES:

3

ABOVE ACCESSIBLE CEILING. E ABOVE CEILING. TED IN MILLWORK, FURNITURE, BEHIND A JECTOR. OUNTED DEVICE. 'S RECOMMENDED CABLE REQUIREMENTS	E. CABLE F SPLICES	ROM DEVICE	TO BE HOMERUN 1	O DESTINATION V	WITHOUT
ED. FOR CABLE ROUTING AND DISTANCES. S FOR MOST INSTALLATIONS. DEVICE WILL BOX SIZE REQUIREMENTS ARE D.					
IS FROM THE BOTTOM OF THE MONITOR					
DESCRIPTION	J-BOX	CONDUIT	MOUNTING HEIGHT	CABLE TYPE	NOTES
T, WALL PLATE (M1/M2 = D1, M3/M4 = D2)	D1,D2	(1) 3/4"	RECEPTACLE HEIGHT	(#) MA	2,4.
5.5MM/RCA CONNECTION, WALL PLATE	D1	(1) 3/4"	RECEPTACLE HEIGHT	(1) LA	2,4.
ALL PLATE, T = XLR MALE CONNECTION, CTION	D1	(1) 3/4"	RECEPTACLE HEIGHT	(1) LA	2,4.
T WITH AUXILIARY INPUT, WALL PLATE	D1	(1) 3/4"	RECEPTACLE HEIGHT	(1) MA (1) LA	2,4.
T, CEILING	D1	(1) 3/4"	CEILING	(1) MA	2,4.
ARY MICROPHONE		(1) 1/2"	ON TABLE/ MILLWORK	(1) MA	2,3,9.
JSH TO TALK MICROPHONE	D1	(1) 3/4"	SWITCH HEIGHT	(1) MA	2,4.
	D1	(1) 3/4"	RECEPTACLE HEIGHT	(1) UTP	2,4.
AUXILIARY INPUT, WALL PLATE, EXTENDER	D1	(1) 3/4"	HEIGHT	(1) UTP	2,4,11.
AUXILIARY INPUT, WALL PLATE, AUDIO ENCODER	D2	(1) 1"	HEIGHT	(1) UTP	2,4,11.
EINPUT/OUTPUT WALL PLATE, AUDIO ENCODER	D1	(1) 1"	HEIGHT	(1) UTP	2,4,11.
AUDIO ENCODER	D2	(1) 1"	HEIGHT	(1) UTP	2,4,11.
AUDIO ENCODER	D2	(1) 1"	HEIGHT	(1) UTP	2,4,11.
AUDIO ENCODER	D2	(1) 1"	SWITCH HEIGHT	(1) UTP	2,4,11.
ET INPUT, WALL PLATE	D1	(1) 3/4"	SWITCH HEIGHT	(1) MA	2,4.
TATION, WALL PLATE	D3	(1) 3/4"	SWITCH HEIGHT	(1) MA	2,4.
PLATE, AUDIO EXTENDER	D1	(1) 1"	SWITCH HEIGHT	(1) UTP	2,4,11.
LATE	D1	(1) 1 1/4"	RECEPTACLE HEIGHT	(1) VG	2,4.
PLATE	D1	(1) 1 1/4"	RECEPTACLE HEIGHT	(1) HD (1) LA	2,4.
JT, WALL PLATE	D2	(1) 1 1/4"	RECEPTACLE HEIGHT	(1) HD (1) VG	2,4.
ALL PLATE (# IDENTIFIES UNIQUE PLATES)	SCH	(1) 1"		(1) UTP	2,4,11.
ALL PLATE (# IDENTIFIES UNIQUE PLATES)	SCH	(1) 1"		(1) UTP	2,4,11.
UT TRANSMITTER, WALL PLATE	D1	(1) 1"	RECEPTACLE HEIGHT	(1) STP	2,4,11.
O VGA TRANSMITTER, WALL PLATE	D2	(1) 1"	RECEPTACLE HEIGHT	(1) STP	2,4,11.
PLAY PORT AND/OR VGA TRANSMITTER BOX, D			IN MILLWORK/ UNDER TABLE	(1) STP	2,4,11.
- Y INPUT, WALL PLATE	D1	(1) 1"	RECEPTACLE HEIGHT	(1) STP	2411
CEIVER, WALL PLATE	D1	(1) 1"	AS NOTED	(1) STP	2,4,11.
LATE, UTP EXTENSION	D1	(1) 1"	RECEPTACLE HEIGHT	(1) STP	2,4,11.
R DEVICE, SURFACE MOUNTED		(1) 1"	IN MILLWORK/ UNDER TABLE	(1) STP	2,4,8,11.
NSMITTER, WALL PLATE (CLASSROOM SYSTEM)	D2	(1) 1 1/4"	RECEPTACLE	(1) STP	2,4,11.
MITTER, WALL PLATE (CLASSROOM SYSTEM)	D2	(1) 1 1/4"	RECEPTACLE	(1) STP	2,4,11.
NSMITTER, WALL PLATE	D1	(1) 1"	RECEPTACLE	(2) STP	2,4,11.
IUNICATION PUSHBUTTON STATION	D1	(1) 3/4"	SWITCH HEIGHT	AS NOTED	2,7,10.
D AMPLIFICATION SYSTEM		(1) 1 1/4"	IN MILLWORK/		2,3.
R, WALL/CEILING	D1	(1) 3/4"	CEILING	(1) UTP OR	2,6,11.
NG SYSTEM ANTENNA/EMITTER, WALL/CEILING	A1	(1) 1"	AS NOTED	AS NOTED	2,6.
/CEILING	D1	(1) 1"	AS NOTED	(1) AT	2,6.
	D1	(1) 1"	SWITCH HEIGHT	(1) S16	2,4.
WITH SOURCE SELECTOR	D2	(1) 1"	SWITCH HEIGHT	(1) S16	2,4,9,11.
SLE TOP		(1) 1"	AS NOTED	(1) UTP	
LI MOUNTED, REFER TO SPECIFICATIONS	SCH	(1) 1"	SWITCH HEIGHT	(1) UTP	2,4,5,11.
JNTED, REFER TO SPECIFICATIONS	SCH	(1) 1"	SWITCH HEIGHT	(1) CT or	2,4,10.
3 TOUCHPANEI	SCH	(1) 1"	SWITCH HEIGHT	(1) UTP (1) STP	
BOX, NUMBER REFERS TO TYPE		(., .	IN MILLWORK	SEE DIAGRAMS.	
CATIONS/DIAGRAMS FOR REQUIREMENTS	C#	(1) 3/4"	AS NOTED	(1) \$16	2.4.
RAY CABINET CLUSTER	A0	(1) 3/4"	AS NOTED	(1) \$12	2,4.
ILING RECESSED OR PENDANT	C#	(1) 3/4"	CEILING	(1) S16	2,7.
TO SPECIFICATIONS FOR TYPE	D1	(1) 1"	UNDER DISPLAY		1,5.
) SPECIFICATIONS FOR DISPLAY TYPE AND SIZE	PER SCH	(1) 1 1/4"	AS NOTED	AS NOTED	4,13.
EN	(2) A0	(1) 1"	CEILING OR	(1) UTP	2.7.
CATIONS FOR SCREEN TYPE AND SIZE	D2	(1) 1 1/4"	CEILING OR	AS NOTED	2.6.
	C#	(1) 1"	AS NOTED	AS NOTED	1
TIRACK	C#	SCH	AS NOTED		
	C#	SCH	AS NOTED		
	C#	SCH			
	0#	(1) 1-1/2"			2
	A0				£.
BOX, REFER TO SCHEDULE AND DIAGRAM	<u>904</u>	QCU			
UNCTION BOX AND CONDUIT R TO ELECTRICAL DOCUMENTS FOR					
ER TO DIAGRAMS FOR AV DEVICE LAYOUT		(1) 1 1/0"			
ER TO DIAGRAMS FOR AV DEVICE LAYOUT					
		AS NOTED			
GEALED IN FLOOR OR GROUND		AS NUTED			
		AS NOTED			
		AS NOTED			
		AS NOTED			
		AS NOTED			
AG (# = VIEW NUMBER, ## = SHEET NUMBER)					
IAG					

AUDIOVISUAL SYMBOL SCHEDULE

GENERAL SCHEDULE NOTES:

NOTED.

THIS SET OF DRAWINGS.

A. TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED IN

C. ROUGH-IN JUNCTION BOX, CONDUIT, AND MOUNTING HEIGHT ARE

D. CONDUIT STUBBED INTO ACCESSIBLE CEILING UNLESS OTHERWISE

DEFAULT REQUIREMENTS. REFER TO PLANS FOR SPECIFIC NOTES

B. DEVICES WITH "A" ADJACENT TO IT INDICATE DEVICE TO BE

COORDINATED WITH MILLWORK PRIOR TO ROUGH-IN.

AND REQUIREMENTS FOR A SPECIFIC INSTANCE.

AUDIOVISUAL GENERAL NO

	DRAWING NOTES FOR RESPONSIBILITY FOR EACH ITEM.
2.	ELECTRICAL CONTRACTOR SHALL COORDINATE REQUIRED PROVISIONS WITH THE PRO INTEGRATOR PRIOR TO INSTALLATION OF AV SYSTEM ROUGH-IN. WHERE CONDUIT AND PROVISIONS ARE SIGNIFICANTLY DIFFERENT FROM THOSE SHOWN ON THE DRAWINGS, CONSULTANT IN WRITING OF THE REQUIREMENTS. WHERE MINOR MODIFICATIONS TO P REQUIRED, THEY SHALL BE MADE AT NO ADDITIONAL COST AS A MATTER OF JOB COOR
3.	BIDDERS SHALL THOROUGHLY ACQUAINT AND EXAMINE THE EXISTING PROJECT CONDI- THE WORK IS TO BE PERFORMED. INCLUDING THE COMPLETE SET OF PLANS AND SPEC THE ENTIRE PROJECT. BIDDERS SHALL BECOME FULLY CONVERSANT WITH THE TYPE O CONSTRUCTION AS WELL AS ALL PERTINENT FACTS AFFECTING THE COST OF CARRYIN THEY WILL CONTRACT TO PERFORM AND BRING ANY DISCREPANCIES OR OMISSIONS FO DRAWINGS TO THE AV CONSULTANT'S ATTENTION BEFORE SUBMITTING BID.
4.	AV SYSTEMS INTEGRATOR SHALL PROVIDE A FULLY FUNCTIONING SYSTEM IN EVERY R DISCREPANCIES IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE PRO CONSULTANT PRIOR TO BIDDING.
5.	THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT, AND ANY MATERIAL OSPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS. BUT NECESSARY TO FULLY SHALL BE FURNISHED BY THE PROJECT AV SYSTEMS INTEGRATOR.
6.	NO CHANGES TO THE DESIGN SHALL BE MADE WITHOUT THE PROJECT AV CONSULTAN
7.	WHERE APPLICABLE, AV SYSTEMS INTEGRATOR SHALL FOLLOW ALL MANUFACTURER'S GUIDELINES.
8.	REFER TO DRAWINGS FOR EXACT NUMBER OF COMPONENTS USED IF NOT SPECIFIED II
9.	COORDINATE EXACT SPEAKER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT AV CONSULTANT PRIOR TO B
10.	CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL SPEAKERS AND COMPARE WITH DEPT DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHI CONSULTANT PRIOR TO RELEASE.
11.	INSTALL/SUSPEND ALL AUDIOVISUAL SYSTEMS EQUIPMENT IN COMPLIANCE WITH SEISI MANUFACTURER'S WRITTEN INSTRUCTIONS, AND INDUSTRY BEST PRACTICES. DURING PROCESS, PROVIDE SHOP DRAWINGS WHICH DETAIL PROPOSED MOUNTING FOR ALL S
12.	ALL TWISTED-PAIR (U/UTP, F/UTP, U/FTP, S/FTP) CATEGORY TYPE CABLING SHALL BE TE CERTIFIED DATA TECHNICIANS. TEST PER SPECIFICATIONS REQUIREMENTS AND PROVICONSULTANT.
13.	ALL HDBaseT SIGNAL CABLING, TERMINATIONS, AND TERMINATION HARDWARE SHALL C WIRING CONFIGURATION T568 B. ALL HDBaseT SIGNAL CABLING SHALL BE SHIELDED/FO TYPE CABLE.
14.	CONDUCT A RADIO FREQUENCY AUDIT OF THE SITE PRIOR TO SELECTING RF OPERATION SYSTEMS INTEGRATOR TO ENSURE INTERFERENCE FREE OPERATION OF ALL RF DEVIC INTEGRATOR SHALL COORDINATE AUDIT RESULTS WITH MANUFACTURER PRIOR TO PU EQUIPMENT.

- 15. PROVIDE RACK MOUNT KITS FOR ALL RACK MOUNTED EQUIPMENT. PROVIDE CUSTOM WHEN NOT AVAILABLE FROM THE EQUIPMENT MANUFACTURER.
- 16. PROVIDE SURGE PROTECTION DEVICE (SPD) IN ALL AV EQUIPMENT RACKS.
- 17. ALL AV EQUIPMENT RACKS SHALL BE GROUNDED AND BONDED TO MEET OR EXCEED THE NATIONAL ELECTRIC CODE (NED), IEC 1000-5-2 ANSI/J-STD-607-A. 18. ALL AV EQUIPMENT SHALL BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS.
- 19. PROVIDE MANUFACTURER RECOMMENDED POWER SUPPLIES OR TRANSFORMERS FC EQUIPMENT. 20. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR LACK OF COORDINATION WITH AV CONSULTANT AS
- ADDRESSED IN THE DOCUMENTS
- 1. UNLESS SPECIFICALLY SPECIFIED OR NOTED PROVIDE COMMERCIAL QUALITY EQUIPMENT, MATERIALS AND COMPONENTS DESIGNED FOR CONTINUOUS USE. CONSUMER QUALITY COMPONENTS ARE NOT ACCEPTABLE.

AUDIOVISUAL SHEET INDEX

AUDIOVISUAL SYMBOLS SCHEDULES AND NOTES AUDIOVISUAL ROUGH IN DIAGRAMS

T001 T060 T1.211

AUDIOVISUAL SIGNAL FLOW DIAGRAMS SHOP ADDITION INTERCOM PLAN

WRESTLING ADDITION INTERCOM PLAN

AUDIOVISUAL GENERAL NOTES	
THIS SHEET SET SHOWS WORK AND MATERIALS BY DIVISION 26 AND DIVISION 27. SEE SPECIFICATIONS AND DRAWING NOTES FOR RESPONSIBILITY FOR EACH ITEM.	
ELECTRICAL CONTRACTOR SHALL COORDINATE REQUIRED PROVISIONS WITH THE PROJECT AV SYSTEMS INTEGRATOR PRIOR TO INSTALLATION OF AV SYSTEM ROUGH-IN. WHERE CONDUIT AND JUNCTION BOX PROVISIONS ARE SIGNIFICANTLY DIFFERENT FROM THOSE SHOWN ON THE DRAWINGS, NOTIFY THE AV CONSULTANT IN WRITING OF THE REQUIREMENTS. WHERE MINOR MODIFICATIONS TO PROVISIONS ARE REQUIRED, THEY SHALL BE MADE AT NO ADDITIONAL COST AS A MATTER OF JOB COORDINATION.	naylor wentworth lund architects
BIDDERS SHALL THOROUGHLY ACQUAINT AND EXAMINE THE EXISTING PROJECT CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. INCLUDING THE COMPLETE SET OF PLANS AND SPECIFICATIONS COVERING THE ENTIRE PROJECT. BIDDERS SHALL BECOME FULLY CONVERSANT WITH THE TYPE OF GENERAL CONSTRUCTION AS WELL AS ALL PERTINENT FACTS AFFECTING THE COST OF CARRYING OUT THE WORK THEY WILL CONTRACT TO PERFORM AND BRING ANY DISCREPANCIES OR OMISSIONS FOUND IN THE DRAWINGS TO THE AV CONSULTANT'S ATTENTION BEFORE SUBMITTING BID.	
AV SYSTEMS INTEGRATOR SHALL PROVIDE A FULLY FUNCTIONING SYSTEM IN EVERY RESPECT. ANY DISCREPANCIES IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT AV CONSULTANT PRIOR TO BIDDING.	
THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT, AND ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS. BUT NECESSARY TO FULLY COMPLETE THE WORK, SHALL BE FURNISHED BY THE PROJECT AV SYSTEMS INTEGRATOR.	RNA
NO CHANGES TO THE DESIGN SHALL BE MADE WITHOUT THE PROJECT AV CONSULTANT'S WRITTEN CONSENT.	
WHERE APPLICABLE, AV SYSTEMS INTEGRATOR SHALL FOLLOW ALL MANUFACTURER'S INSTALLATION GUIDELINES.	CONSULTING
REFER TO DRAWINGS FOR EXACT NUMBER OF COMPONENTS USED IF NOT SPECIFIED IN EQUIPMENT LIST.	4225 Lake Park Blvd, Suite 275 రా West Valley City, LT 84120
COORDINATE EXACT SPEAKER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS. ANY CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT AV CONSULTANT PRIOR TO BIDDING.	P: 801.532.2196
CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL SPEAKERS AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND AV CONSULTANT PRIOR TO RELEASE.	F: 801.532.2305
INSTALL/SUSPEND ALL AUDIOVISUAL SYSTEMS EQUIPMENT IN COMPLIANCE WITH SEISMIC CODES, MANUFACTURER'S WRITTEN INSTRUCTIONS, AND INDUSTRY BEST PRACTICES. DURING THE SUBMITTAL PROCESS, PROVIDE SHOP DRAWINGS WHICH DETAIL PROPOSED MOUNTING FOR ALL SUCH EQUIPMENT.	
ALL TWISTED-PAIR (U/UTP, F/UTP, U/FTP, S/FTP) CATEGORY TYPE CABLING SHALL BE TERMINATED BY CERTIFIED DATA TECHNICIANS. TEST PER SPECIFICATIONS REQUIREMENTS AND PROVIDE DATA TO AV CONSULTANT.	STESSIONAL ENGLIS
ALL HDBaseT SIGNAL CABLING, TERMINATIONS, AND TERMINATION HARDWARE SHALL COMPLY WITH TIA/EIA WIRING CONFIGURATION T568 B. ALL HDBaseT SIGNAL CABLING SHALL BE SHIELDED/FOIL (SF/UTP) CATEGORY TYPE CABLE.	JOSHUA QAKESON No. 7707671/2202
CONDUCT A RADIO FREQUENCY AUDIT OF THE SITE PRIOR TO SELECTING RF OPERATIONAL FREQUENCIES. AV SYSTEMS INTEGRATOR TO ENSURE INTERFERENCE FREE OPERATION OF ALL RF DEVICES. AV SYSTEMS INTEGRATOR SHALL COORDINATE AUDIT RESULTS WITH MANUFACTURER PRIOR TO PURCHASING RF EQUIPMENT.	PATE OF UT
PROVIDE RACK MOUNT KITS FOR ALL RACK MOUNTED EQUIPMENT. PROVIDE CUSTOM RACK MOUNT KITS WHEN NOT AVAILABLE FROM THE EQUIPMENT MANUFACTURER.	
PROVIDE SURGE PROTECTION DEVICE (SPD) IN ALL AV EQUIPMENT RACKS.	
ALL AV EQUIPMENT RACKS SHALL BE GROUNDED AND BONDED TO MEET OR EXCEED THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE (NED), IEC 1000-5-2 ANSI/J-STD-607-A.	· · · · · · · · · · · · · · · · · · ·
ALL AV EQUIPMENT SHALL BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS.	
PROVIDE MANUFACTURER RECOMMENDED POWER SUPPLIES OR TRANSFORMERS FOR ALL SPECIFIED EQUIPMENT.	





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PROJECT FOR THE SOUTH SANPETE SCHOOL DISTRICT BOARD OF EDUCATION 39 SOUTH MAIN MANTI, UTAH 84642
AUDIOVISUAL ROUGH IN DIAGRAMS

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GENERAL DIAGRAM NOTES:

- ALL ZONES OF CONSTRUCTION. USING CEILING SYSTEM OR LIGHT FIXTURE SUPPORT/SEISMIC WIRES FOR SUPPORT IS NOT ALLOWED. AT SERVICE LOOPS
- MAINTAIN PROPER BEND RADIUS ON ALL CABLE. B. PROVIDE (1) PAGING MODULE FOR EACH CORRIDOR THAT WILL REQUIRE A SEPARATE ZONE. REFER TO DRAWINGS AND SPECIFICATIONS FOR ZONE
- DESIGNATION. C. MULTIPLE ZONES SHALL NOT SHARE A SINGLE AMPLIFIER CHANNEL OR IP MODULE.
- D. AMPLIFIER REFERENCES SHOWN ON PLANS ARE INTENDED TO SHOW ZONING INFORMATION NOT MULTI-CHANNEL AMPLIFIER REQUIREMENTS. REFER TO SPECIFICATIONS FOR AMPLIFIER REQUIREMENTS.
- E. REFER TO FLOOR PLANS FOR QUANTITY OF CLASSROOMS REQUIRING CLASSROOM MODULE CONNECTIONS. F. EXTERIOR LOUDSPEAKERS SHALL EACH BE HOME RUN BACK TO THE AMPLIFIER ZONES WITH 3 AND MORE WILL REQUIRE AN ADDITIONAL AMPLIFIER.
- PLANS.



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AUDIOVISUAL SIGNAL FLOW DIAGRAMS T080

(W2) Z-1A1



INTERCOM ZONES LEGEND



Z-ID

INTERCOM GENERAL NOTES INTERCOM CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE NEEDS OF THEIR SYSTEM WITH THE OTHER TRADES REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM. THIS INCLUDES BUT NOT LIMITED TO, ELECTRICAL CONTRACTOR FOR ROUGH-IN, PATHWAYS ETC. STRUCTURED CABLING INSTALLER, naylor wentworth lund architects CONTRACTOR SHALL COORDINATE EXACT LOCATION OF LOUDSPEAKERS WITH REFLECTED CEILING PLAN DEVICES AND LOCATE PER MANUFACTURER'S DETAILED CEILING LOUDSPEAKER COVERAGE MAP INPUT I. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL LOUDSPEAKER AND CEILING EQUIPMENT RACK LOCATIONS WITH LIGHTING AND CEILING INSTALLER A MINIMUM OF TWO TIMES PRIOR TO ROUGH-IN OF ANY LOUDSPEAKER. CENTER LOUDSPEAKERS IN 1/2 OF THE CEILING TILE IN LINE WITH THE LIGHT FIXTURES. LOUDSPEAKERS MAY SHARE A LAY-IN CEILING TILE WITH OTHER DEVICES IF THE CEILING TILE IS LARGE ENOUGH FOR BOTH DEVICES TO FIT COMFORTABLY AND NEATLY. FOR EXAMPLE A 2X4 CEILING TILE CAN FIT A 14" LOUDSPEAKER ON HALF OF THE TILE WHILE A FIRE SPRINKLER, HORN STROBE, LIGHTING CONTROL OR BNA 6. REFER TO DIAGRAM V350 FOR TYPICAL INTERCOM DEVICE CONNECTIONS. QUANTITY OF ZONES WILL BE ZONING IDENTIFICATION SHOWN IS INTENDED TO SHOW WHICH AREAS SHALL BE GROUPED TOGETHER. CONSULTING WINNING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE CORRECT EQUIPMENT REQUIRED FOR 4225 Lake Park Blvd, Suite 275 ස් West Valley City, UT 84120 9. EXTERIOR LOUDSPEAKERS SHALL BE ADJACENT TO NEARBY HORN STROBE, MAXIMUM OF WITHIN 15' OF LOCATIONS SHOWN. MOUNT EXTERIOR LOUDSPEAKER TYPE 'IW2' AT THE SAME MOUNTING HEIGHT AS HORN P: 801.532.2196 F: 801.532.2305 STROBES, UNLESS OTHERWISE NOTED, AND 'IW3' 36" BELOW THE ROOF LINE, UNLESS OTHERWISE NOTED. www.bnaconsulting.com 10. INTERIOR LOUDSPEAKERS SHALL BE MOUNTED AT 108" AFF, UNLESS OTHERWISE NOTED. VERTICALLY ALIGN OTHER DEVICES (LIGHT SWITCHES, HORNSTROBES, OUTLETS, ETC.) WITH LOUDSPEAKER. NOTED 11. ALL SPECIFIED CONDUIT SHALL BE STUBBED UP INTO ACCESSIBLE CEILING SPACE, UNLESS OTHERWISE 12. ALL LOW VOLTAGE WIRE/CABLE FOR INTERCOM SHALL BE PROPERLY SUPPORTED AT 5'-0" INTERVALS AND TO FOLLOW BUILDING STRUCTURAL LINES PULLING WIRE DIAGONALLY ACROSS ROOMS IS NOT ALLOWED. USING CEILING SYSTEM OF LIGHT FIXTURE SUPPORTS. SEISMIC WIRES FOR SUPPORT IS NOT ALLOWED. AT SERVICE





SHEET KEYNOTES



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PROJECT FOR
THE SOUTH SANPETE SCHOOL
DISTRICT BOARD OF EDUCATION
39 SOUTH MAIN MANTI, UTAH 84642

SHOP ADDITION

T1.211

E

D

Space 131



WRESTLING ADDITION INTERCOM PLAN SCALE = 1/8" = 1'-0"

4



INTERCOM ZONES LEGEND

- NO INTERCOM
 - Z-EX
- Z-ID

INTERCOM GENERAL NOTES 1. INTERCOM SYSTEM IS A PERFORMANCE BASED SYSTEM. THE WINNING CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING A COMPLETE AND FUNCTIONAL SYSTEM AS INDICATED WITHIN THE THEIR SYSTEM WITH LUDES BUT NOT CABLING INSTALLER, naylor wentworth lund architects CTED CEILING PLAN RAGE MAP INPUT QUIPMENT RACK O ROUGH-IN OF ANY LIGHT FIXTURES. IG TILE IS LARGE CEILING TILE CAN FIT A ITING CONTROL OR NE TYPE. BNA ZONES WILL BE PED TOGETHER. CONSULTING IENT REQUIRED FOR 4225 Lake Park Blvd, Suite 275 to West Valley City, UT 84120 H #X# ARE OF WITHIN 15' OF ING HEIGHT AS HORN ITHERWISE NOTED. P: 801.532.2196 F: 801.532.2305 www.bnaconsulting.com D. VERTICALLY ALIGN ER. NOTED ESS OTHERWISE T 5'-0" INTERVALS AND TO IS NOT ALLOWED. USING T ALLOWED. AT SERVICE CEILING SYSTEM OF LIGHT FIXTURE SUPPORTS. SEISMIC LOOPS MAINTAIN PROPER BEND RADIUS ON ALL CABLE

	RESPONSIBLE FOR INCLUDING A COMPLETE AND FUNCTIONAL SYSTEM AS INDICATED WITDOCUMENTS.
2.	INTERCOM CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE NEEDS OF TH THE OTHER TRADES REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM. THIS INCLUI LIMITED TO, ELECTRICAL CONTRACTOR FOR ROUGH-IN, PATHWAYS ETC. STRUCTURED C/ MECHANICAL CONTRACTOR, CEILING INSTALLER, ETC.
3.	CONTRACTOR SHALL COORDINATE EXACT LOCATION OF LOUDSPEAKERS WITH REFLECT DEVICES AND LOCATE PER MANUFACTURER'S DETAILED CEILING LOUDSPEAKER COVERA EXACT ROOM DIMENSIONS AND EDGE-TO-EDGE ISOBAR SPACING OF 948.
4.	CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL LOUDSPEAKER AND CEILING EQU LOCATIONS WITH LIGHTING AND CEILING INSTALLER A MINIMUM OF TWO TIMES PRIOR TO LOUDSPEAKER. CENTER LOUDSPEAKERS IN 1/2 OF THE CEILING TILE IN LINE WITH THE LIC LOUDSPEAKERS MAY SHARE A LAY-IN CEILING TILE WITH OTHER DEVICES IF THE CEILING ENOUGH FOR BOTH DEVICES TO FIT COMFORTABLY AND NEATLY. FOR EXAMPLE A 2X4 CE 14" LOUDSPEAKER ON HALF OF THE TILE WHILE A FIRE SPRINKLER, HORN STROBE, LIGHT SIMILAR SIZED DEVICE CAN OCCUPY THE OTHER HALF.
5.	REFER TO SPECIFICATION 27 5123 FOR EQUIPMENT REQUIREMENTS PER ROOM AND ZON
6.	REFER TO DIAGRAM V350 FOR TYPICAL INTERCOM DEVICE CONNECTIONS. QUANTITY OF 2 SHOWN ON THE FLOOR PLAN ALONG WITH WHICH AREAS SHALL BE ON WHICH ZONE.
7.	ZONING IDENTIFICATION SHOWN IS INTENDED TO SHOW WHICH AREAS SHALL BE GROUPE WINNING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE CORRECT EQUIPME COMBINING ADJACENT ROOMS TO MAKE ZONING FUNCTION AS INDICATED.
8.	ZONES WITH 'Z-ID' ARE INTENDED AS INDIVIDUAL ZONES. WHERE SPACES GROUPED WITH INDICATING WHICH SPACES SHALL BE COMBINED INTO A SINGLE ZONE.
9.	EXTERIOR LOUDSPEAKERS SHALL BE ADJACENT TO NEARBY HORN STROBE, MAXIMUM O LOCATIONS SHOWN. MOUNT EXTERIOR LOUDSPEAKER TYPE 'IW2' AT THE SAME MOUNTIN STROBES, UNLESS OTHERWISE NOTED, AND 'IW3' 36" BELOW THE ROOF LINE, UNLESS OT NOTED INSTALLATION HEIGHTS ARE FROM THE FINISHED FLOOR.
10.	INTERIOR LOUDSPEAKERS SHALL BE MOUNTED AT 108" AFF, UNLESS OTHERWISE NOTED. OTHER DEVICES (LIGHT SWITCHES, HORNSTROBES, OUTLETS, ETC.) WITH LOUDSPEAKER INSTALLATION HEIGHTS ARE FROM THE FINISHED FLOOR.
11.	ALL SPECIFIED CONDUIT SHALL BE STUBBED UP INTO ACCESSIBLE CEILING SPACE, UNLERNOTED. PROVIDE PLASTIC CONDUIT BUSHING AT THE END OF CONDUIT.
12.	ALL LOW VOLTAGE WIRE/CABLE FOR INTERCOM SHALL BE PROPERLY SUPPORTED AT 5'-0 FOLLOW BUILDING STRUCTURAL LINES PULLING WIRE DIAGONALLY ACROSS ROOMS IS NO CEILING SYSTEM OF LIGHT FIXTURE SUPPORTS. SEISMIC WIRES FOR SUPPORT IS NOT AL

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