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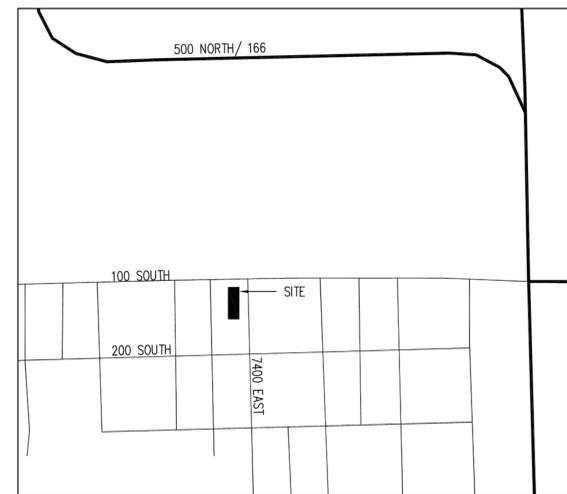
CIVIL ENGINEER
GREAT BASIN ENGINEERING
ATTN: MARK E. BARBITT
5746 SOUTH 1475 EAST
OGDEN, UTAH 84403
801.394.4515

LANDSCAPE ARCHITECT
ARCSITIO
ATTN: RICHARD GILBERT
1058 EAST 2100 SOUTH
SALT LAKE CITY, UT 84106
801.487.4923

STRUCTURAL ENGINEER
ARW ENGINEERS
ATTN: MCKAY PARRISH
1594 PARK CIRCLE
OGDEN, UT 84404
801.782.6008

MECHANICAL ENGINEER
SPECTRUM ENGINEERS
ATTN: BENJAMIN SCHLUP
324 SOUTH STATE STREET, SUITE 400
SALT LAKE CITY, UT 84111
801.328.5151

ELECTRICAL ENGINEER
SPECTRUM ENGINEERS
ATTN: TYLER SQUIRE
324 SOUTH STATE STREET, SUITE 400
SALT LAKE CITY, UT 84111
801.328.5151



VICINITY PLAN

NOT TO SCALE

SYMBOLS

| | | | |
|--|---|--|---|
| | INDICATES WALL TYPE | | WINDOW NUMBER |
| | DOOR NUMBER | | INDICATES GLASS TYPE |
| | INDICATES ELEVATION NO. INDICATES PAGE NO. | | DIMENSION TO FACE OF GYP. BD., CONC. OR MASONRY |
| | INDICATES OBJECT INDICATES ELEVATION | | DIMENSION TO CENTER LINE |
| | INDICATES FINISHED FLOOR TYPE | | RIGID INSULATION |
| | INDICATES GRID NUMBER | | BATT INSULATION |
| | KEYNOTE | | FINISHED WOOD |
| | INDICATES ROOM NAME INDICATES ROOM NUMBER | | BLOCKING |
| | REVISIONS | | CONTINUOUS WOOD |
| | INDICATES SECTION NO. INDICATES PAGE NO. | | METAL OR METAL STUDS |
| | INDICATES DETAIL NO. INDICATES PAGE NO. | | WOOD WALL |
| | GLAZED MASONRY WALL | | MASONRY WALL |

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ABBREVIATIONS

| | | | |
|----------|---------------------------------------|--------|----------------------------|
| A.B. | ANCHOR BOLT | HDR. | HEADER |
| A.C. | ASPHALTIC CONCRETE | INT. | INTERIOR |
| ADJ. | ADJUSTABLE | M.O. | MASONRY OPENING |
| B.O. | BOTTOM OF | M.R. | MOISTURE RESISTANT |
| C.B. | CATCH BASIN | N.I.C. | NOT IN CONTRACT |
| C.J. | CONTROL JOINT | OPP. | OPOSITE |
| CONC. | CONCRETE | P.C.J. | PLASTER CONSTRUCTION JOINT |
| CONT. | CONTINUOUS | R.D. | ROOF DRAIN |
| D.F. | DRINKING FOUNTAIN | S.M. | SIMILAR |
| DIF. | DIFFUSER | S.N.D. | SANITARY NAPKIN DISPOSAL |
| E.I.F.S. | EXTERIOR INSULATION AND FINISH SYSTEM | STL. | STEEL |
| E.J. | EXPANSION JOINT | S.S. | STAINLESS STEEL |
| EL. | ELEVATION | T.A. | TOP OF ASPHALT |
| EQ. | EQUAL | T.G. | TOP OF GRATE |
| EXIST. | EXISTING | T.W. | TOP OF WALK |
| EXT. | EXTERIOR | T.O.C. | TOP OF CONCRETE |
| F.D. | FLOOR DRAIN | T.O.M. | TOP OF MASONRY |
| F.F. | FINISH FLOOR | T.O.S. | TOP OF STEEL |
| F.O. | FACE OF | T.O.W. | TOP OF WALL |
| F.O.M. | FACE OF MASONRY | TYP. | TYPICAL |
| F.S.R. | FLEXIBLE SHEET ROOFING | VIF. | VERIFY IN FIELD |
| F.T. | FIRE TREATED | U.N.O. | UNLESS OTHERWISE NOTED |
| GYP.BD. | GYPSONUM BOARD | W/ | WITH |

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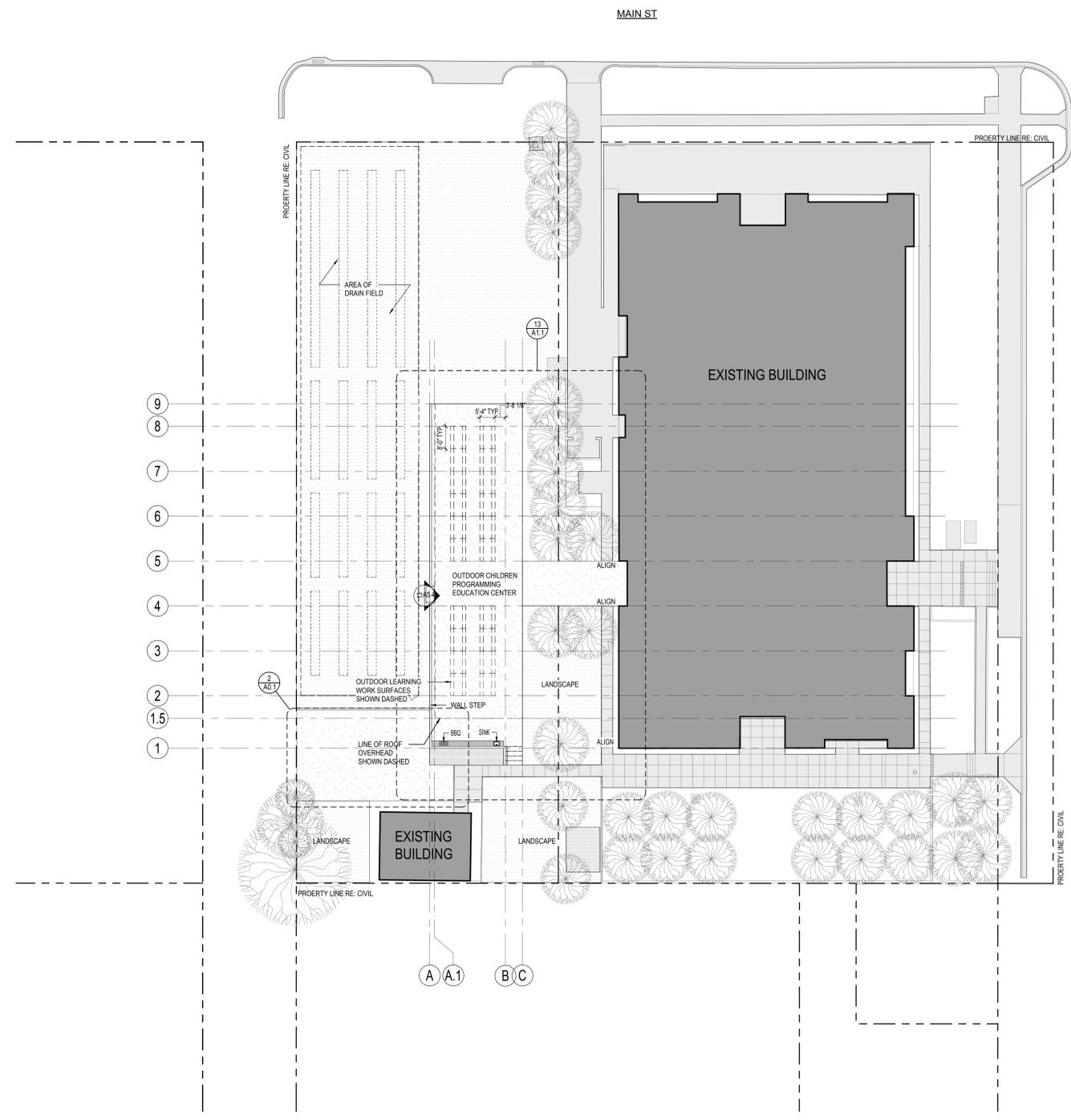
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3

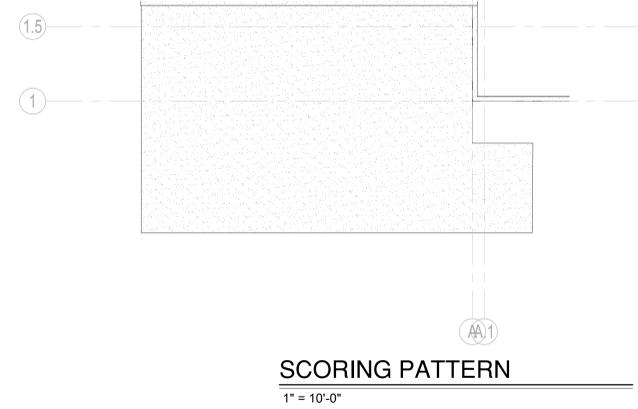
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SHEET NO. T1



ARCHITECTURAL SITE PLAN
1" = 20'-0"



SITE PLAN GENERAL NOTES
1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS WITH CIVIL AND REPORT ANY INCONSISTENCIES TO THE ARCHITECT.

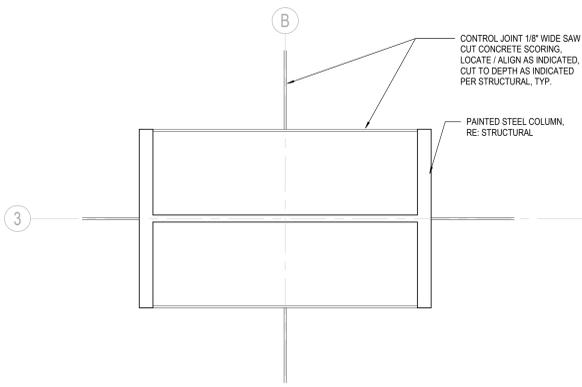
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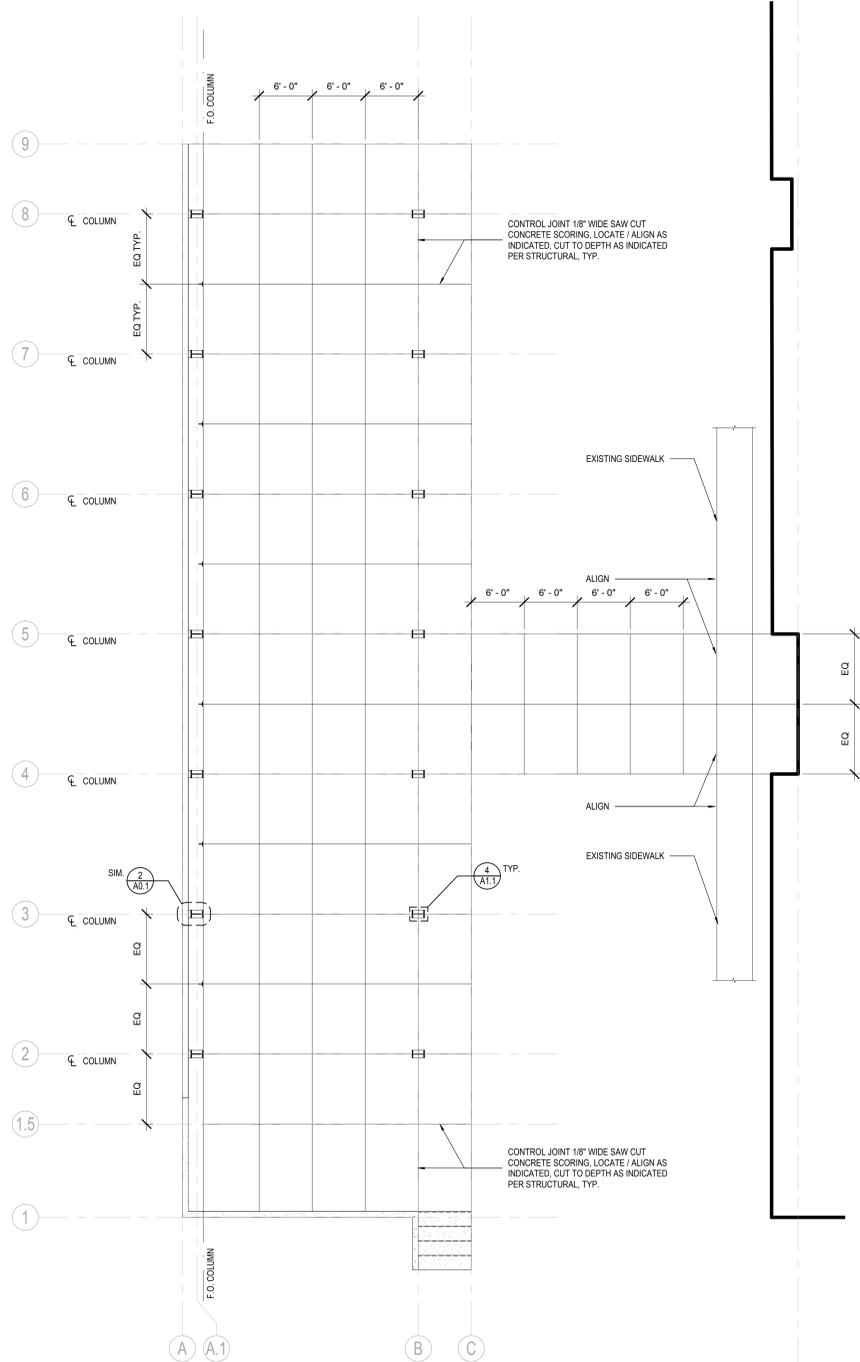
SHEET NO. A0.1

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TYP SCORING AT COLUMN

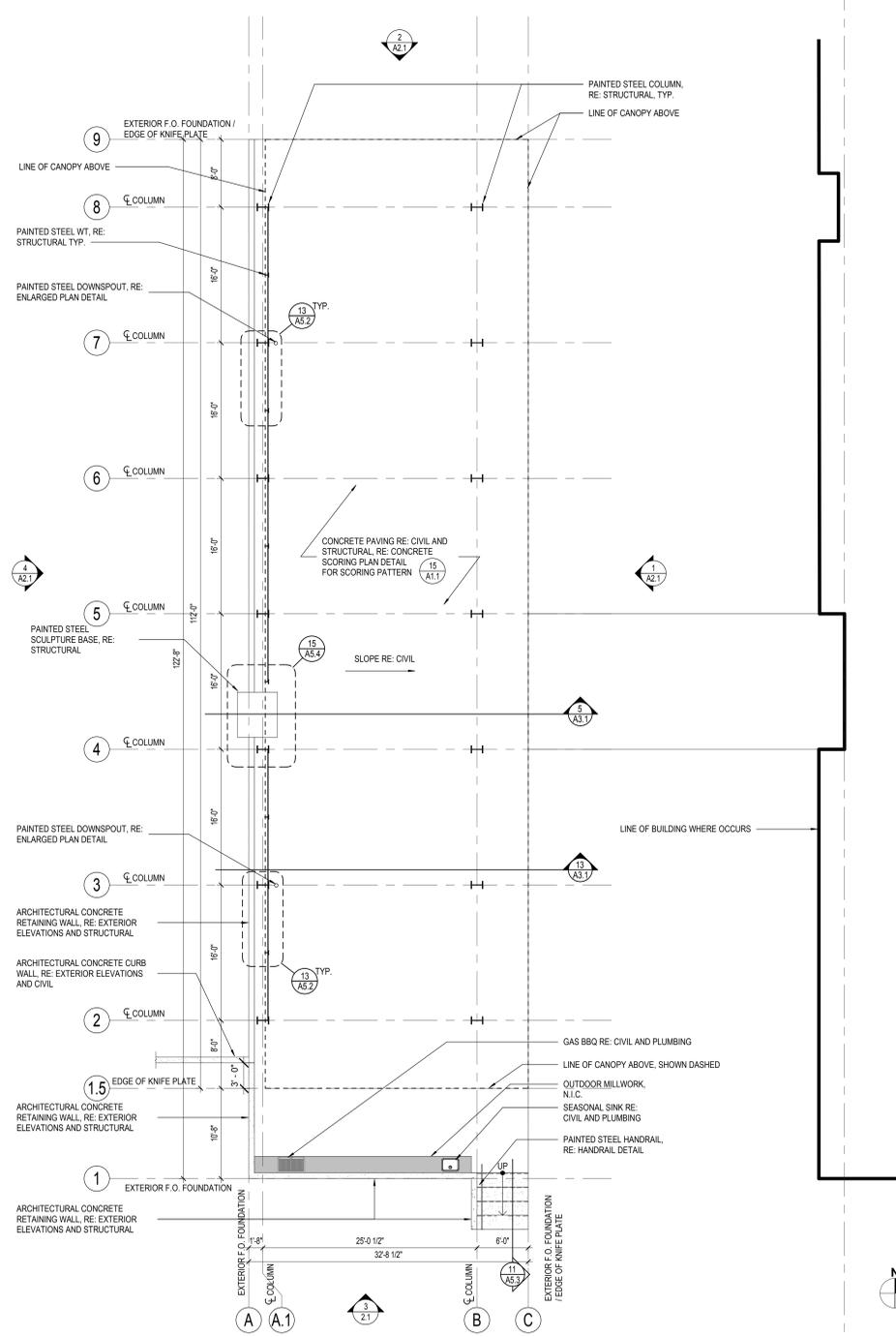
HORIZONTAL
3" = 1'-0"



CONCRETE SCORING PLAN

HORIZONTAL
1/8" = 1'-0"

ENLARGED REFERENCE PLAN



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HORIZONTAL
1/8" = 1'-0"

- FLOOR PLAN GENERAL NOTES
- REFER TO PLUMBING AND ELECTRICAL DRAWINGS FOR ALL PLUMBING AND ELECTRICAL FIXTURES.
 - EXTERIOR DIMENSIONS ARE TO GRIDLINE OR FACE OF FINISH U.I.O.
 - * INDICATES DIMENSION IS DETERMINED BY EQUIPMENT MANUFACTURER. CONTRACTOR TO VERIFY AND COORDINATE CLEARANCES.
 - — — — — INDICATES ALIGNMENT.

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 07.25.19 ORDER #3

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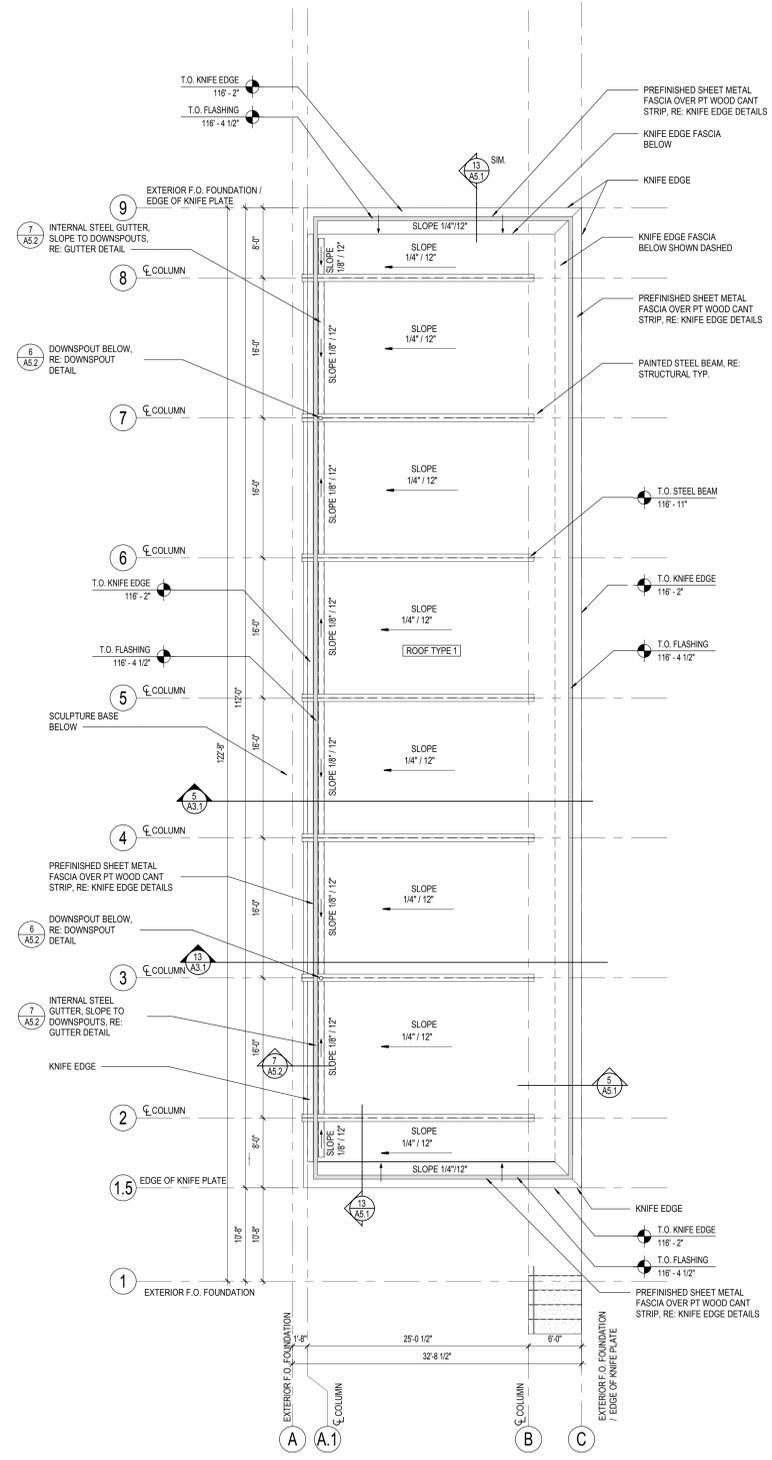
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ENLARGED REFERENCE PLAN

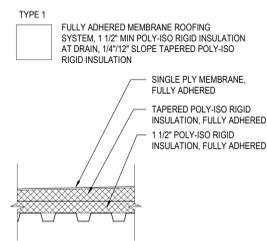
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ROOF PLAN GENERAL NOTES

- ALL HORIZONTAL ROOF ELEMENTS INCLUDING TAPERED RIGID INSULATION AND ROOF PARAPET FLASHINGS ARE TO SLOPE 1/4" PER FOOT MIN, U.N.O.
- BUILD UP CANT STRIPS WHERE SCHEDULED WITH PRESSURE TREATED WOOD BLOCKING TO ALIGN WITH T.O. FLASHING ELEVATION INDICATED.
- PROVIDE FLASHING AT ALL ROOF PENETRATIONS, FOR TYPICAL PENETRATION DETAIL, RE: DETAIL 13 AS3
- CONTRACTOR TO PAINT ALL FLUES AND METAL PENETRATIONS THROUGH ROOF TO MATCH ROOF COLOR.
- NO FASTENERS SHALL BE ALLOWED TO PENETRATE THE METAL DECK, SUPPORTING STRUCTURE OR STEEL KNIFE EDGE. ANY DECK, SUPPORTING STRUCTURE OR STEEL KNIFE EDGE PENETRATION WILL BE REQUIRED TO BE REPAIRED AT NO EXPENSE TO THE OWNER.

ROOF TYPE LEGEND



NOTE: NO FASTENERS WILL BE PERMITTED TO PENETRATE ANY PORTION OF THE FLUTES OF THE METAL DECK, SUPPORTING STRUCTURE OR STEEL KNIFE EDGE

ENLARGED ROOF PLAN

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HORIZONTAL 1/8" = 1'-0"

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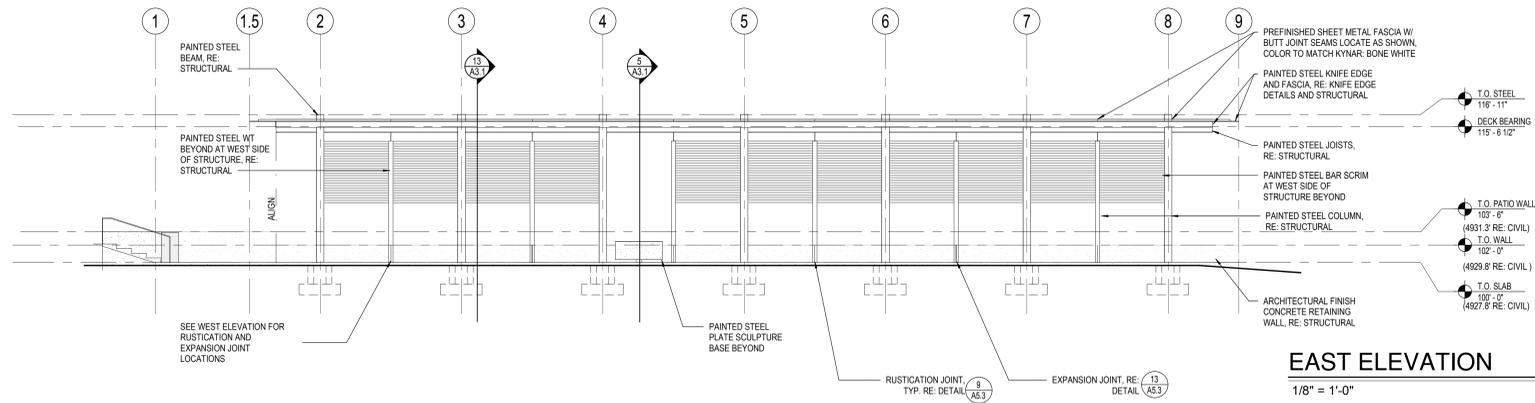
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 3

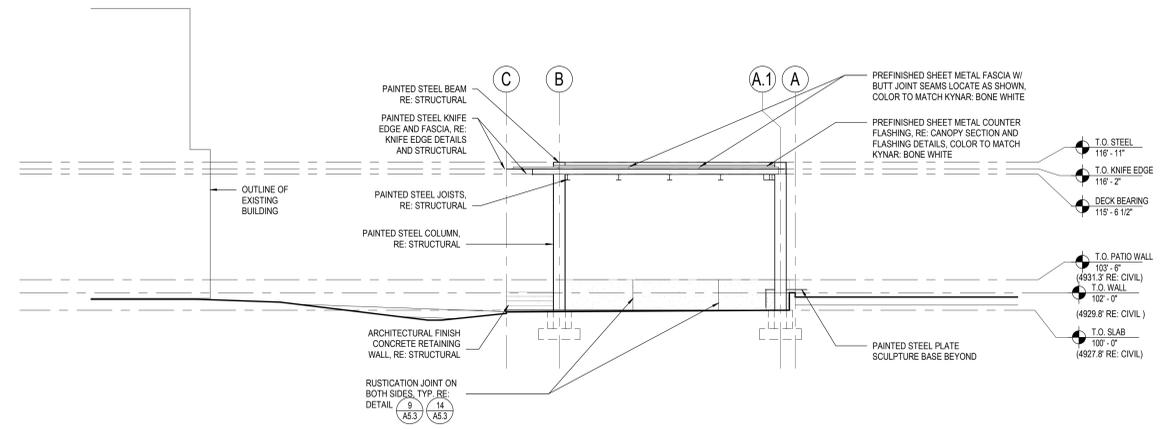
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SHEET NO. A1 of 2

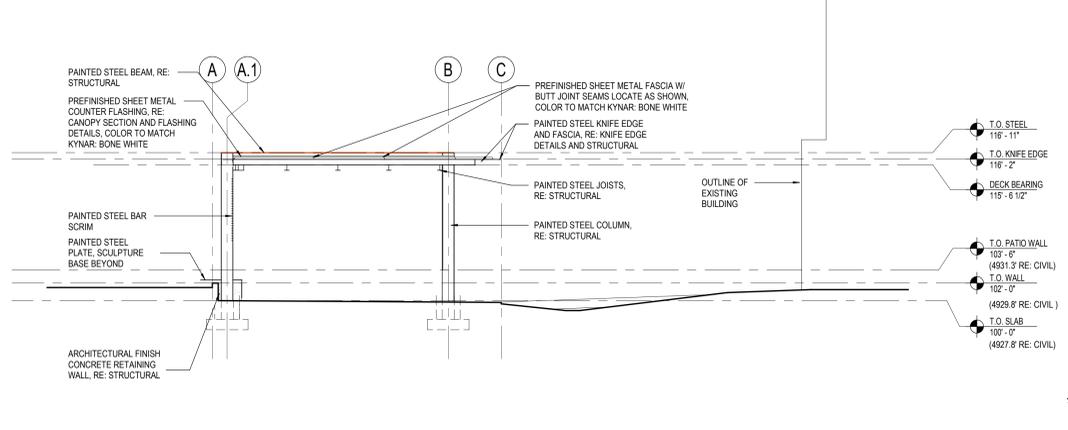
ROOF PLAN



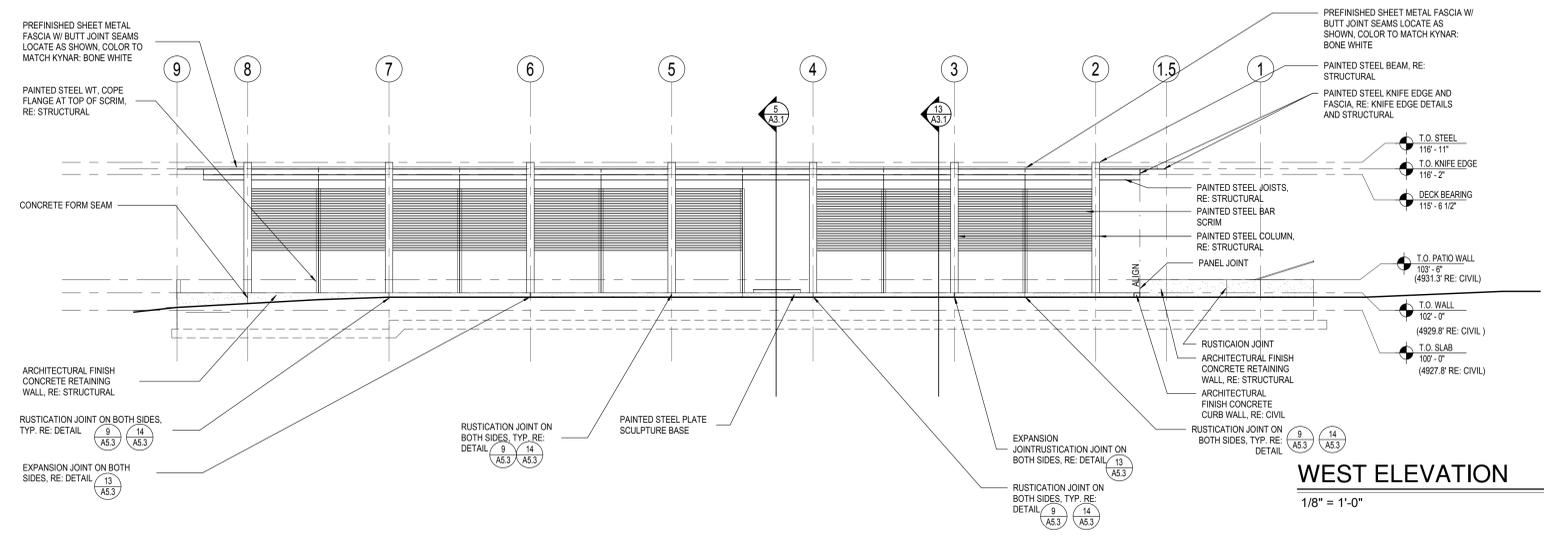
EAST ELEVATION
1/8" = 1'-0"



NORTH ELEVATION
1/8" = 1'-0"



SOUTH ELEVATION
1/8" = 1'-0"



WEST ELEVATION
1/8" = 1'-0"

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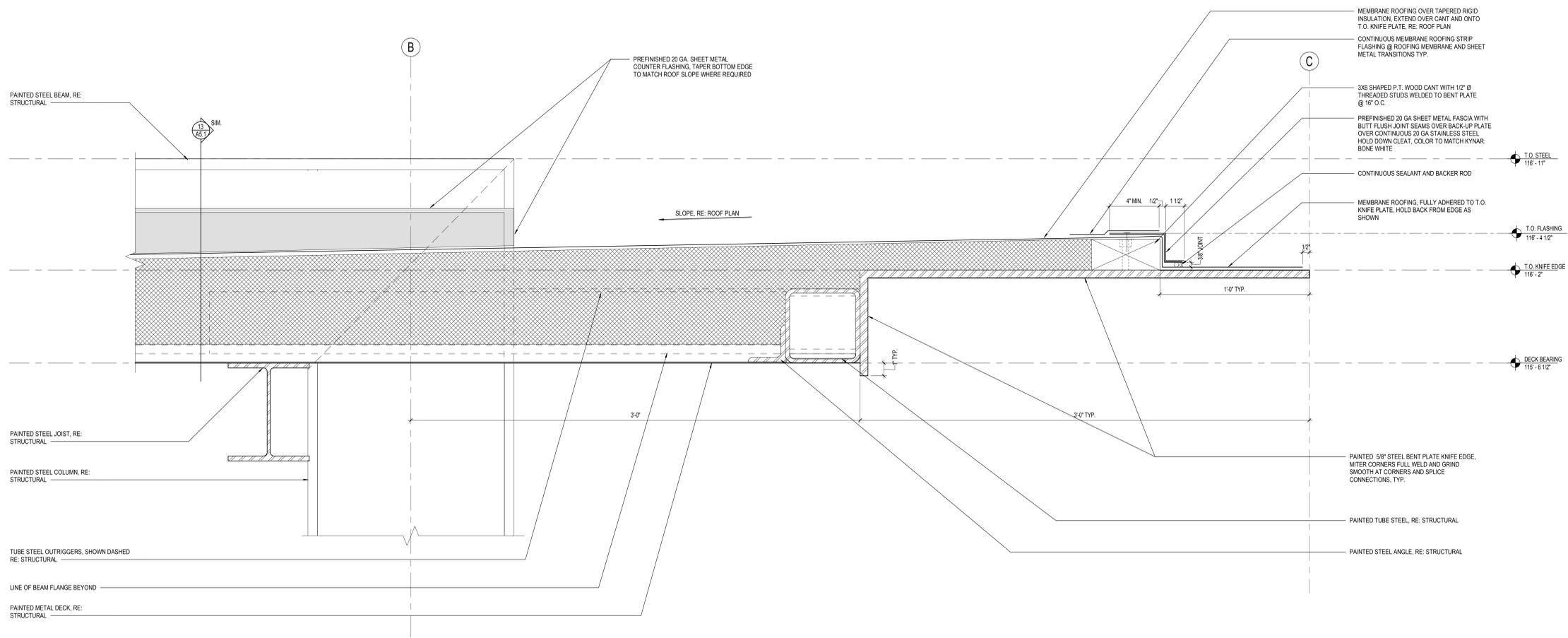
PHASE: 1
PHASE: 2
PHASE: 3

CHANGE
CHANGE
CHANGE

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SHEET NO. A2-1

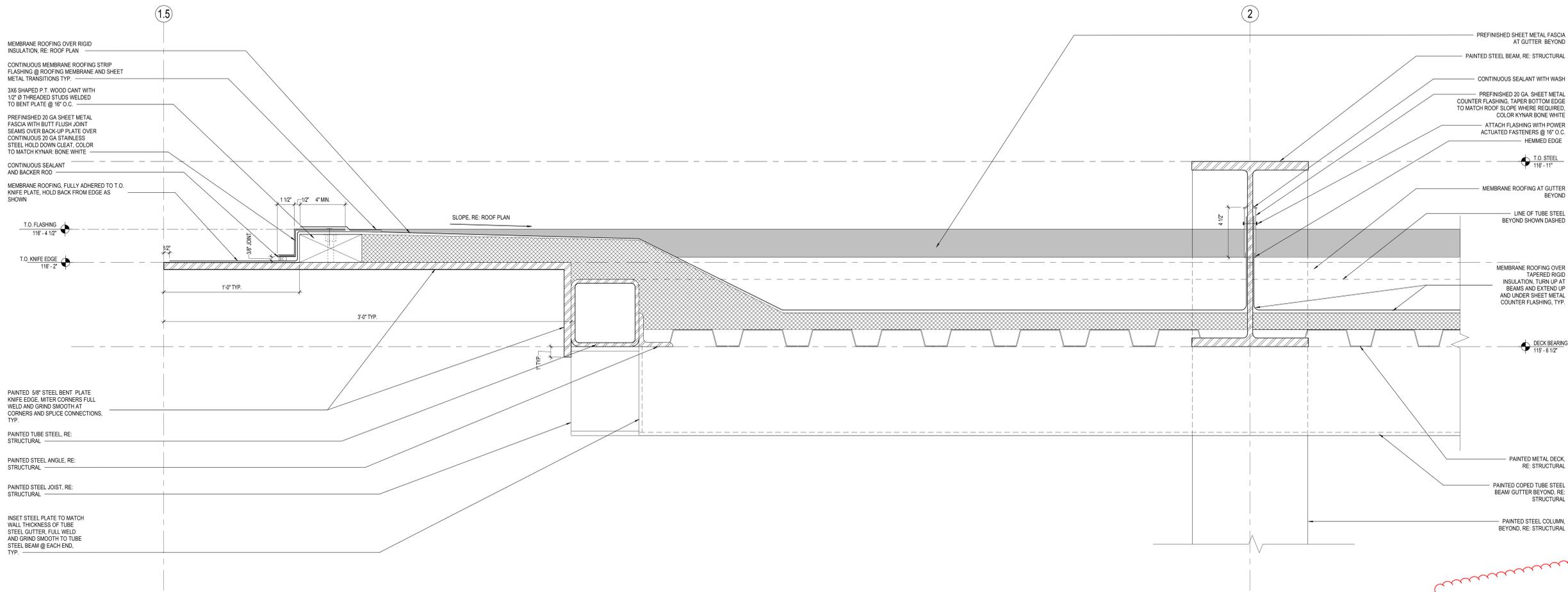
ELEVATIONS



KNIFE EDGE DETAIL 1

VERTICAL
3" = 1'-0"

5



KNIFE EDGE DETAIL 2

VERTICAL
3" = 1'-0"

13

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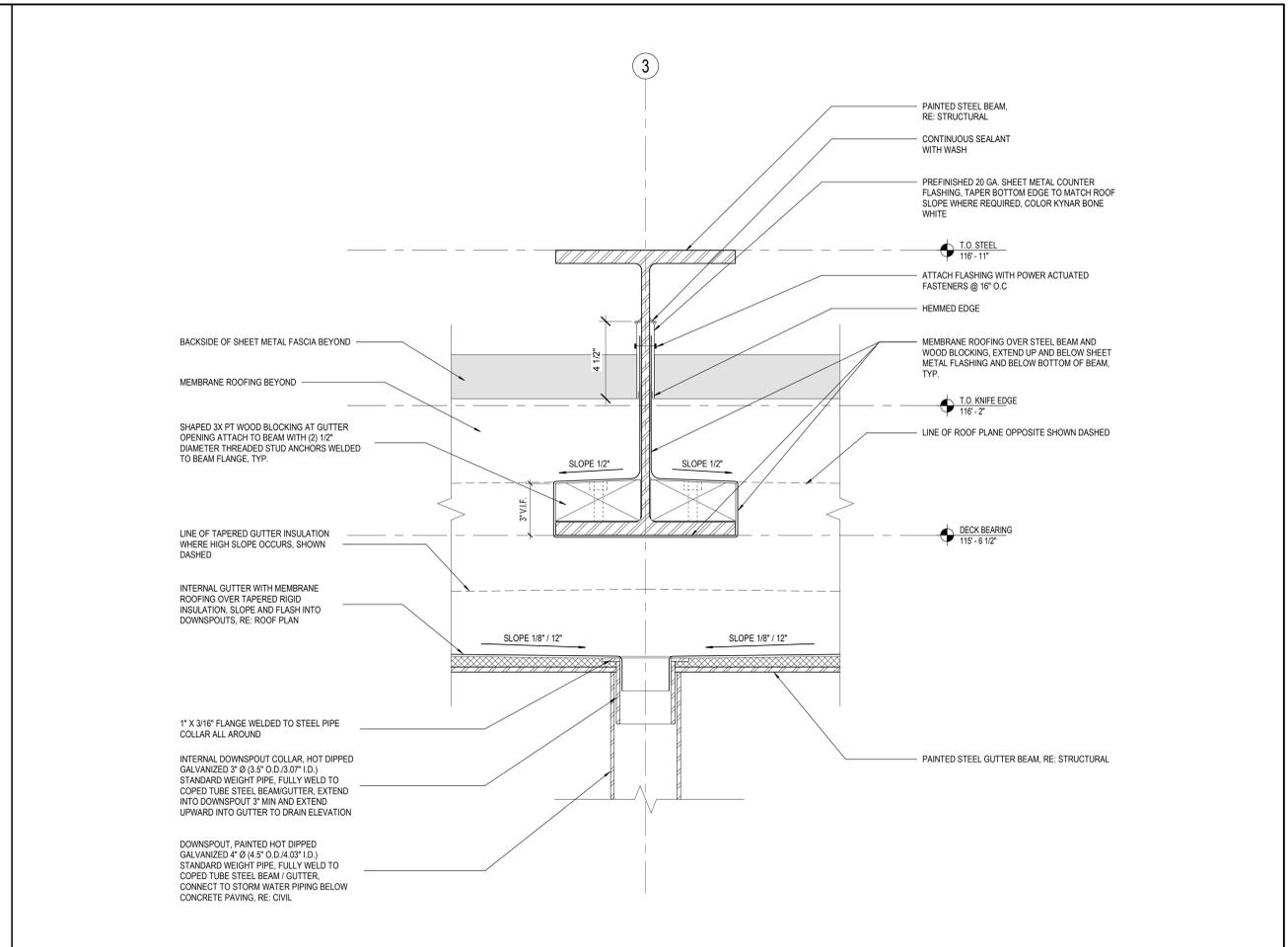
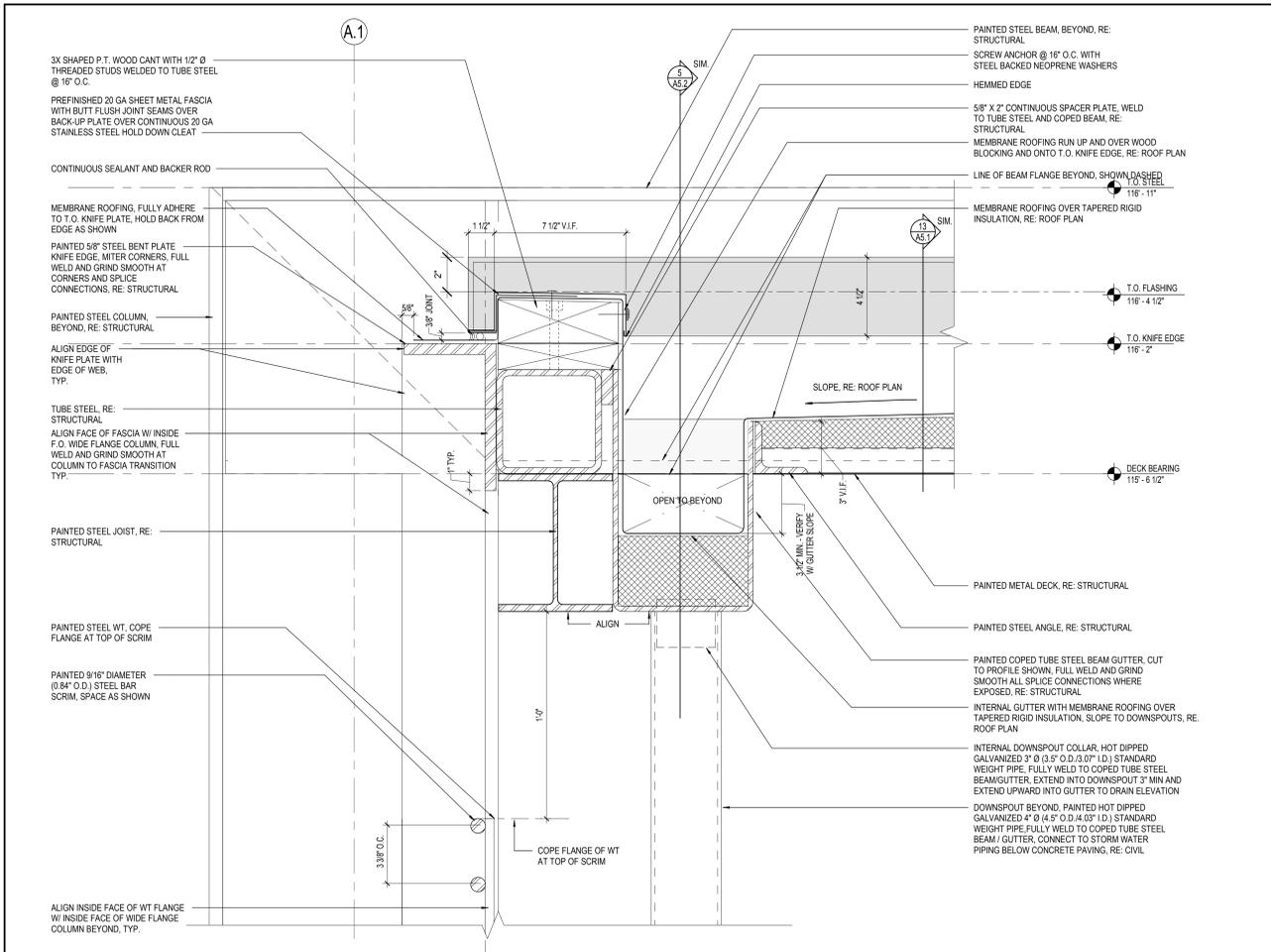
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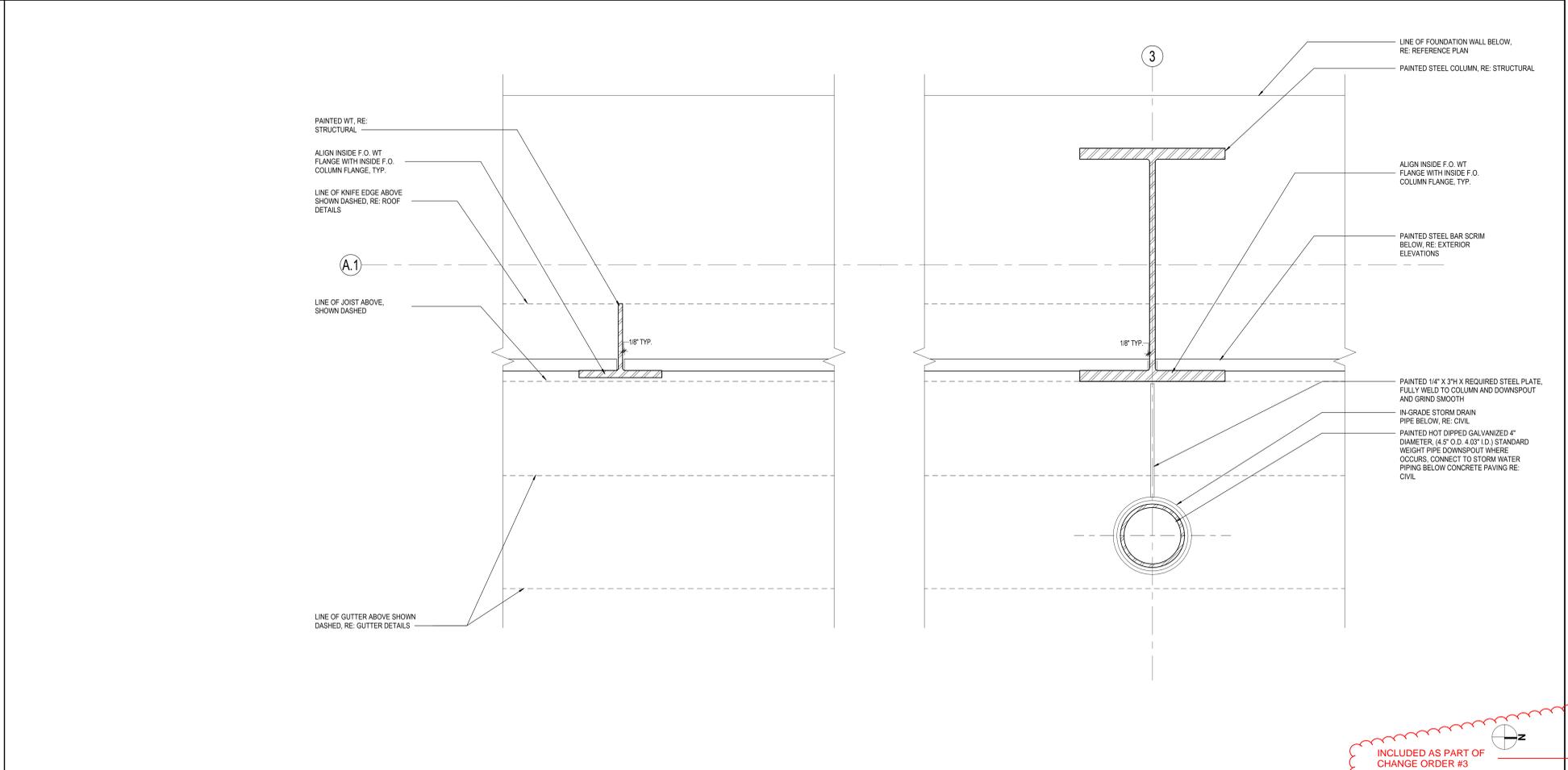
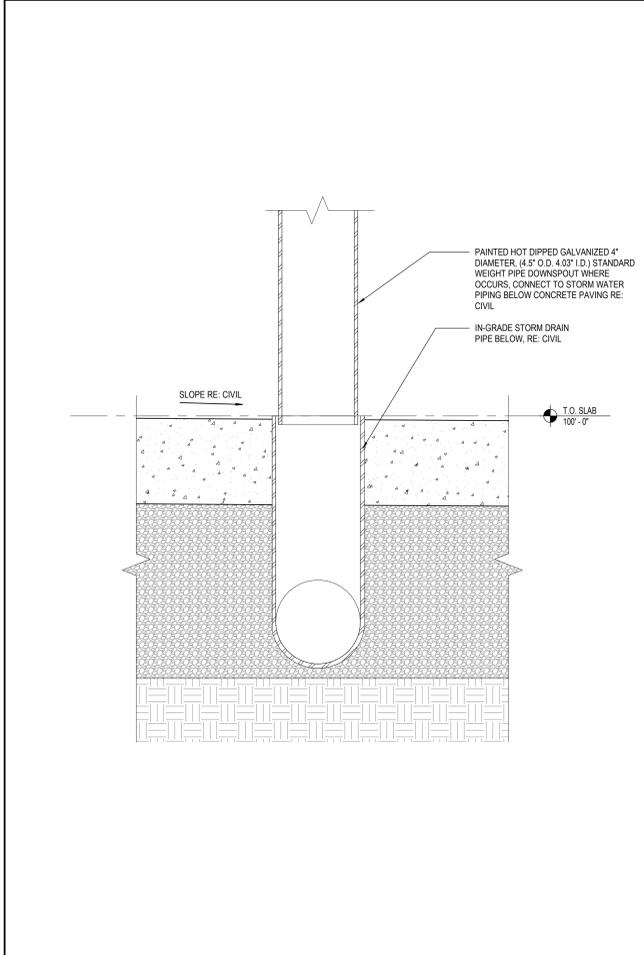
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SHEET NO. A5.1



ROOF DETAIL VERTICAL 3" = 1'-0" 7 GUTTER DETAIL

VERTICAL 3" = 1'-0" 5



GUTTER DETAIL AT SLAB VERTICAL 3" = 1'-0" 16

GUTTER PLAN VIEW DETAIL HORIZONTAL 3" = 1'-0" 13

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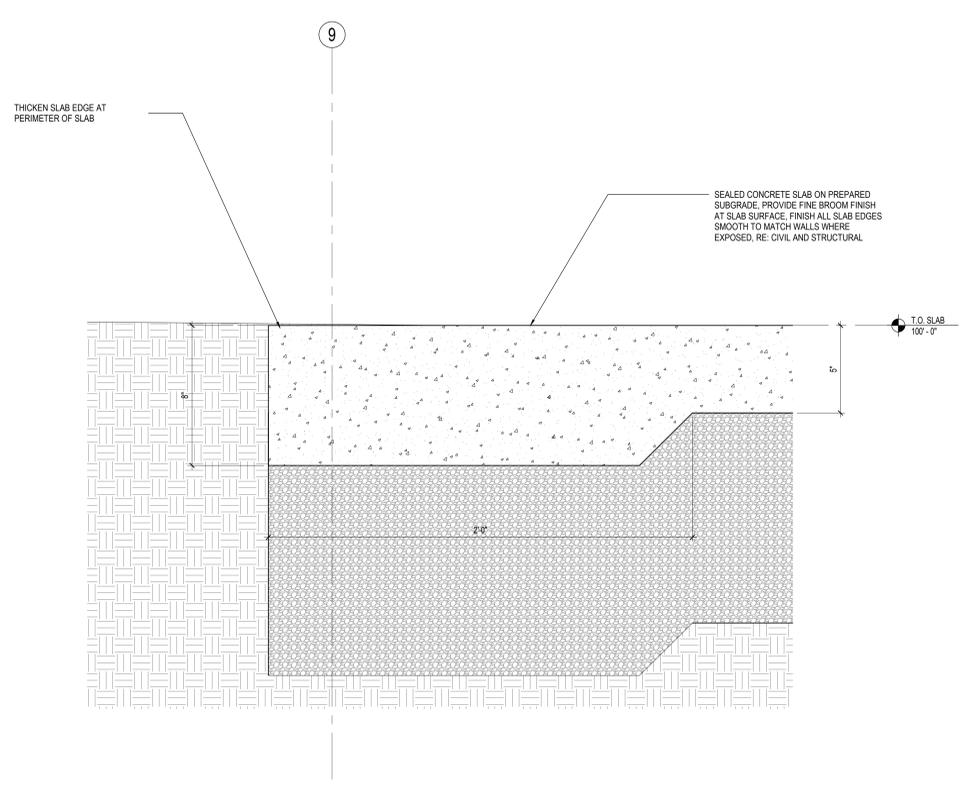
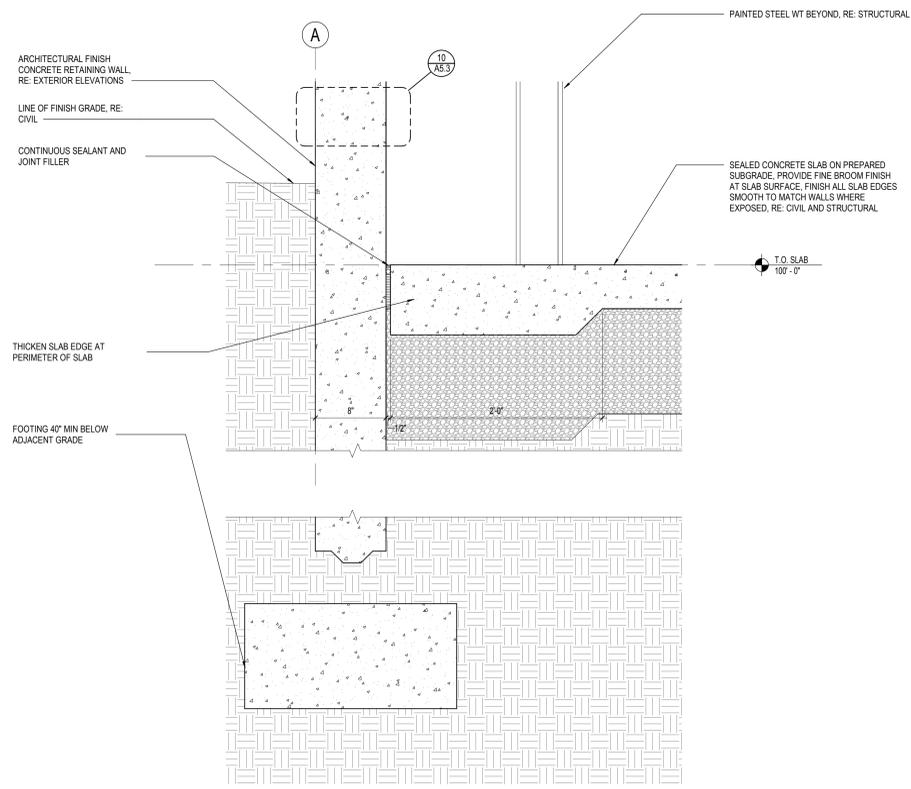
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SHEET NO. A5.2



DETAIL AT FOUNDATION WALL

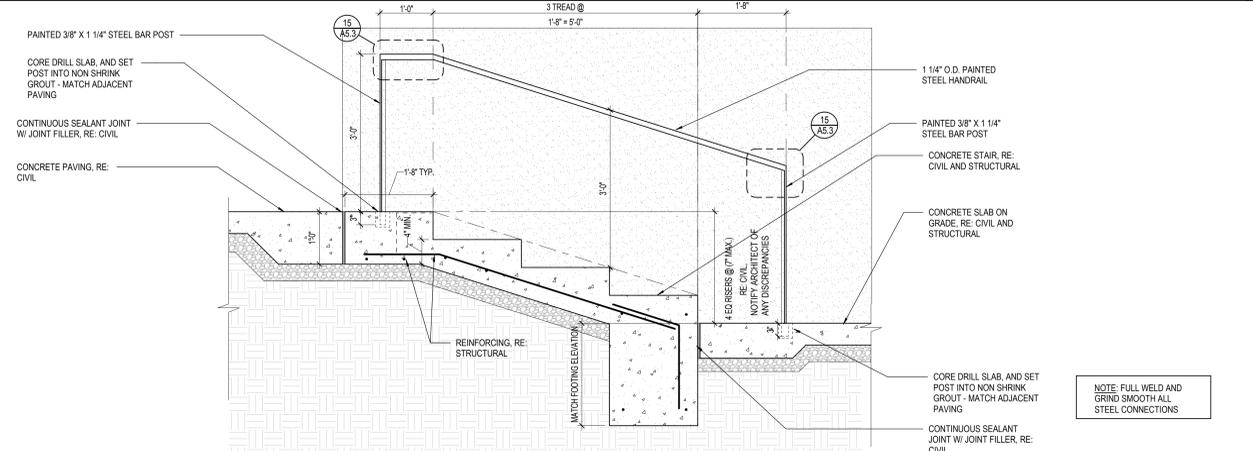
VERTICAL
1 1/2" = 1'-0"

7

DETAIL AT SLAB EDGE

VERTICAL
3" = 1'-0"

5



VERTICAL
3/4" = 1'-0"

11

CONCRETE STAIR / HANDRAIL DETAIL

TOP OF CONCRETE RETAINING WALL SECTION

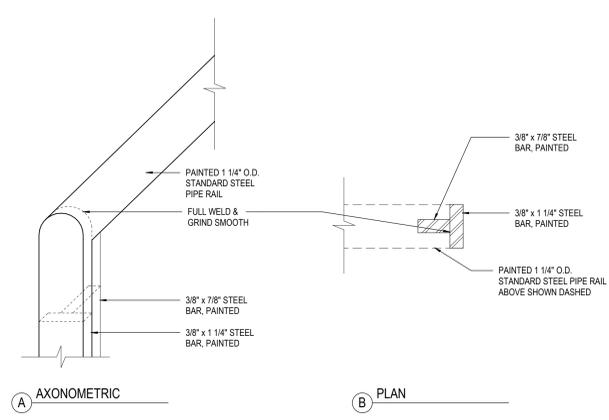
VERTICAL
6" = 1'-0"

10

CONTROL JOINT DETAIL

VARIABLES
3" = 1'-0"

9



VARIABLES
6" = 1'-0"

15

RAIL END CAP

TOP OF RETAINING WALL DETAIL

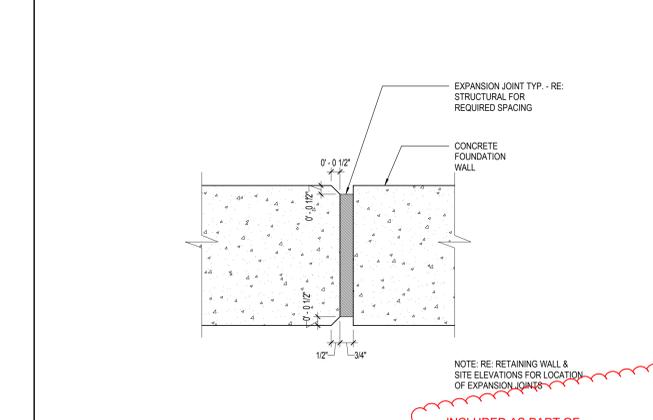
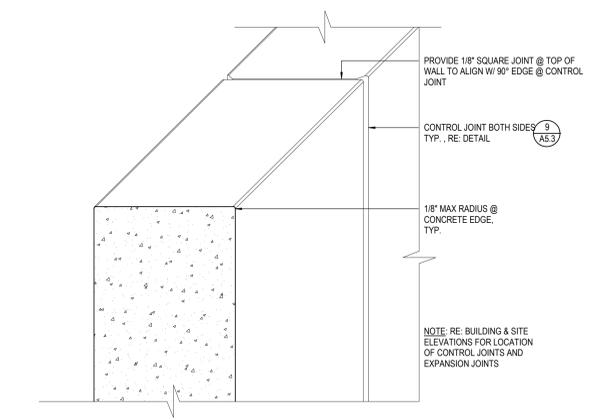
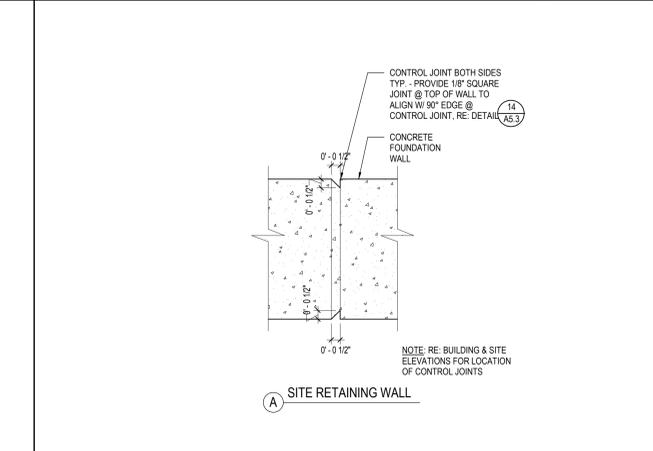
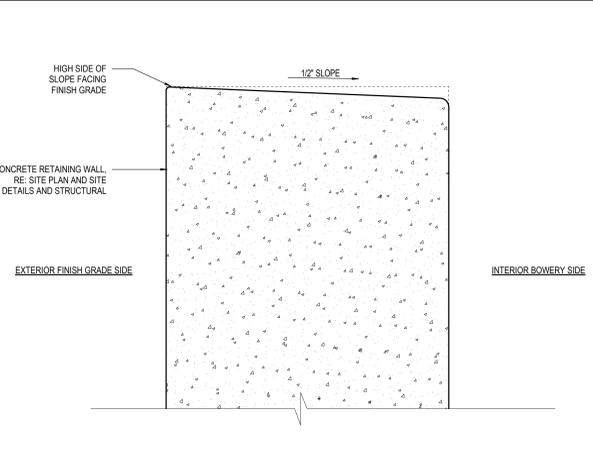
VARIABLES
3" = 1'-0"

14

EXPANSION JOINT DETAIL

VARIABLES
3" = 1'-0"

13



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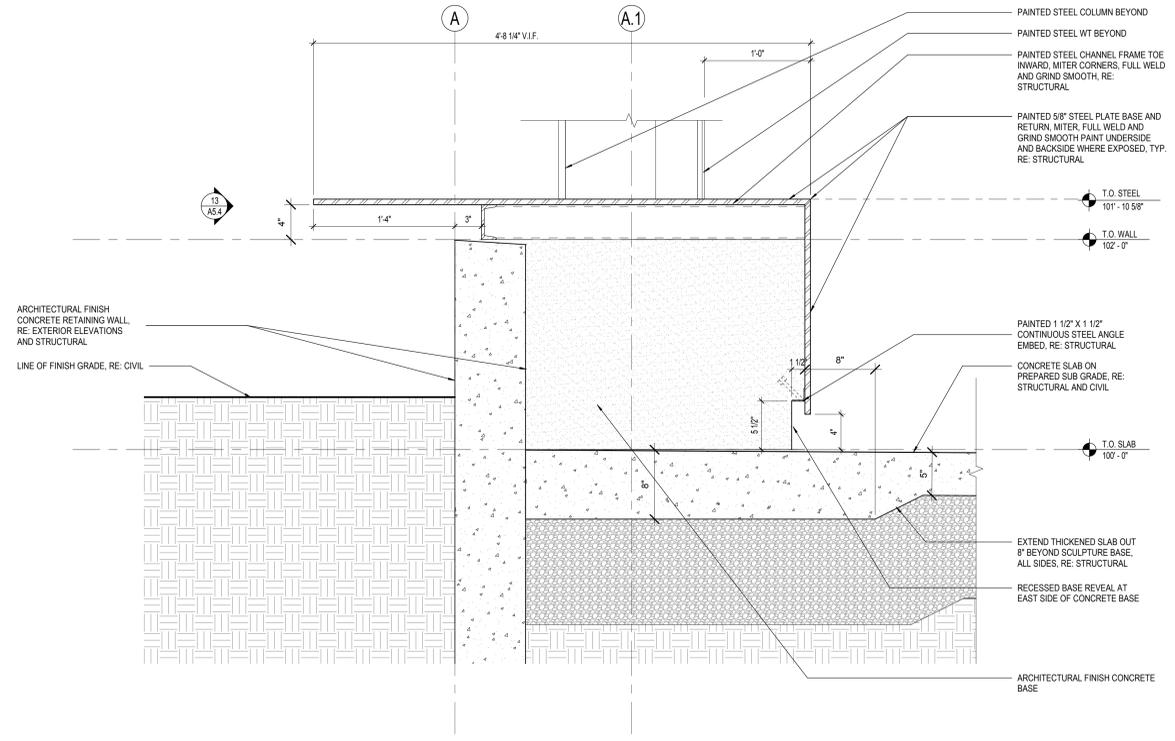
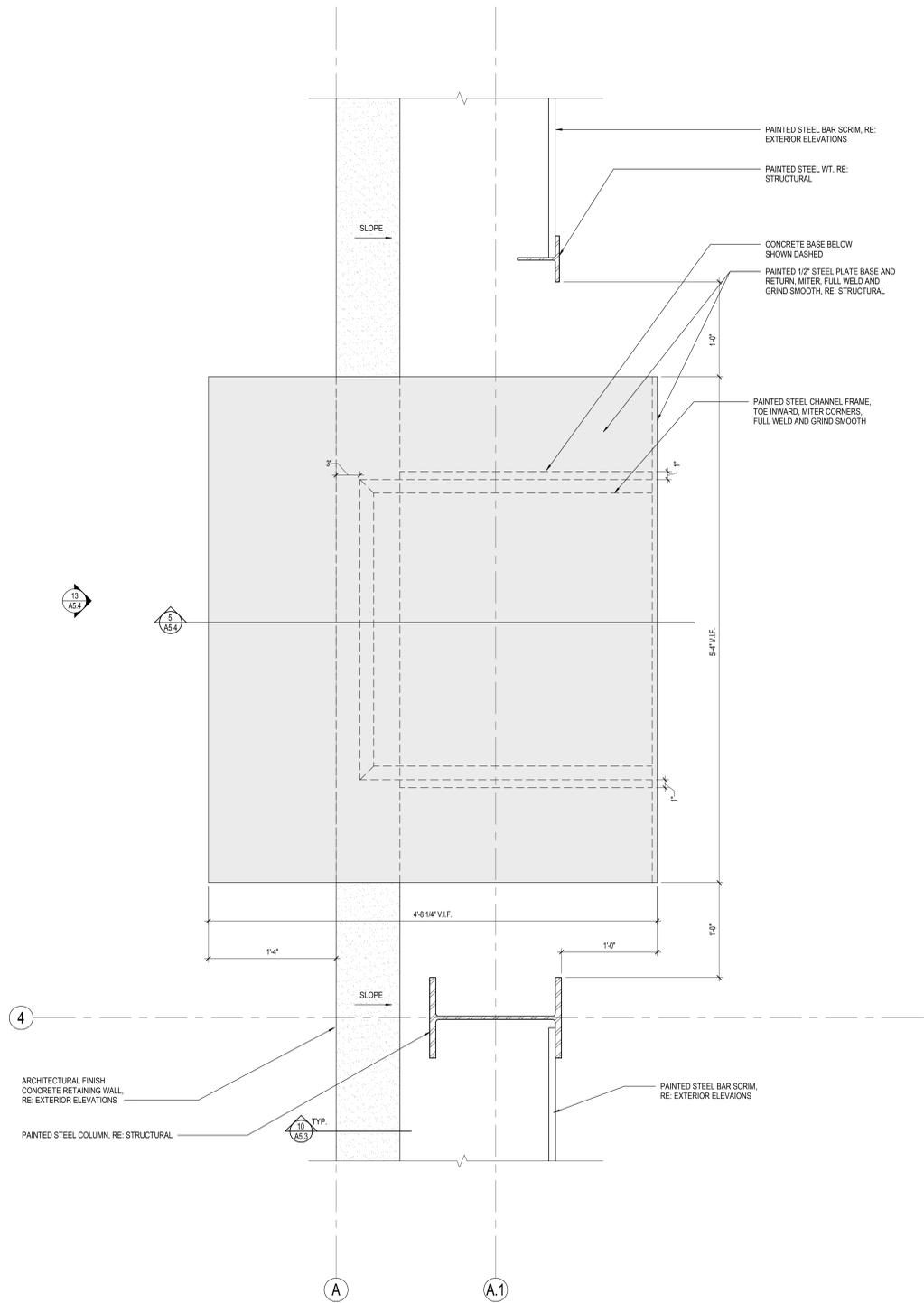
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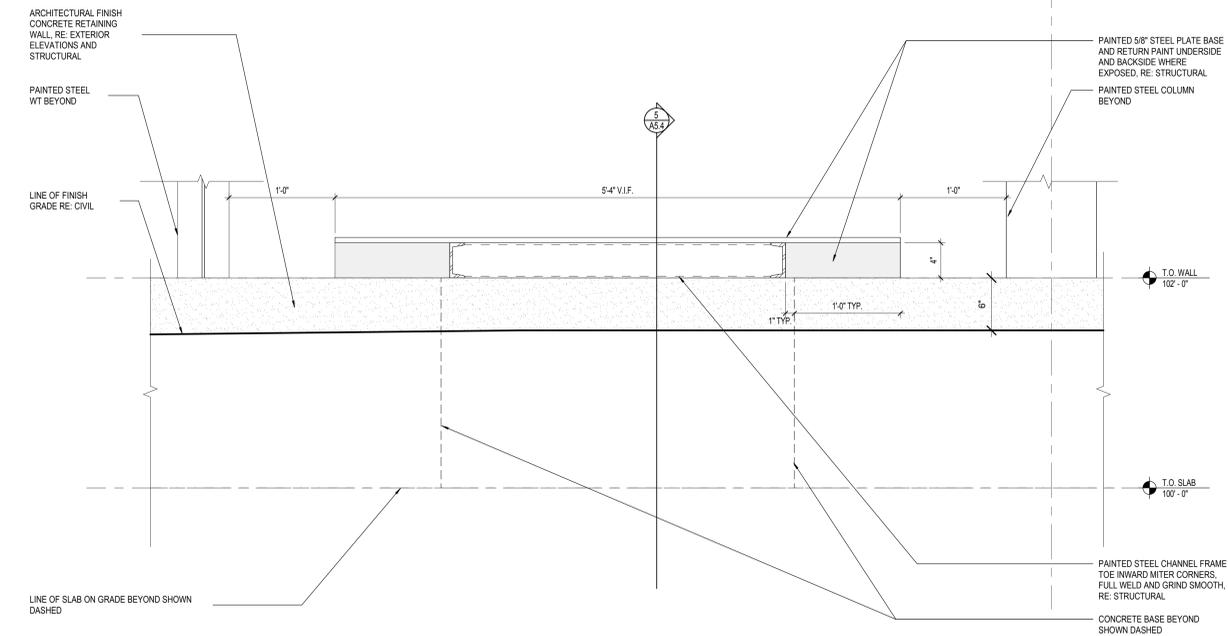
DETAILS



SCULPTURE BASE SECTION

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

5



SCULPTURE BASE WEST ELEVATION

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

13

SCULPTURE BASE PLAN VIEW DETAIL

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

15

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STRUCTURAL NOTES

SALT LAKE CITY, UTAH 84101

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DATE: 06.11.19 PHASE 2

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STRUCTURAL NOTES:

A. GENERAL

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

B. STATEMENT OF SPECIAL INSPECTIONS AND SPECIAL INSPECTIONS

- 1. THE DESIGNATED SEISMIC/WIND SYSTEMS AND SEISMIC/WIND-FORCE-RESISTING SYSTEMS THAT ARE SUBJECT TO SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.11 AND 1705.12 ARE IDENTIFIED ON THESE DOCUMENTS WITH A CIRCLE 'L'. ALL OTHER ITEMS REQUIRING SPECIAL INSPECTION ARE IDENTIFIED IN THE SPECIAL INSPECTION SCHEDULE ON SHEET S002.
2. SPECIAL INSPECTIONS AND TESTING ARE TO BE PROVIDED AS REQUIRED BY IBC SECTIONS 1704 THROUGH 1705 AND OTHER APPLICABLE SECTIONS OF THE IBC. THE TYPE AND FREQUENCY OF TESTING AND SPECIAL INSPECTIONS SHALL BE AS NOTED IN THE SPECIAL INSPECTION SCHEDULE. JOB SPECIFICATIONS, AND ACCORDANCE WITH IBC SECTION 1704 AND AS OUTLINED IN THE JOB SPECIFICATIONS, REPORTS OF FINDINGS OR DISCREPANCIES SHALL BE NOTED AND FORWARDED TO THE CONTRACTOR, ARCHITECT, ENGINEERS, AND BUILDING OFFICIAL IN A TIMELY MANNER.
3. STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY A REPRESENTATIVE FROM ARW ENGINEERS IN ACCORDANCE WITH THE CONTRACT AS NEEDED TO OBSERVE THE CONSTRUCTION OF CRITICAL BUILDING ELEMENTS (I.E. FOOTINGS, BRACED FRAMES, MOMENT FRAMES, DRAG STRUTS AND THEIR CONNECTIONS, COLLECTORS, AND ROOF AND FLOOR DIAPHRAGMS). STRUCTURAL OBSERVATION REPORTS FOR EACH VISIT SHALL BE SENT DIRECTLY TO THE ARCHITECT FOR DISTRIBUTION TO THE CONTRACTOR AND BUILDING OFFICIAL. STRUCTURAL OBSERVATION VISITS SHALL NEITHER BE CONSTRUED AS SPECIAL INSPECTION NOR APPROVAL OF COMPLETED CONSTRUCTION.
4. IN ACCORDANCE WITH IBC 1704.4, THE CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER. THE STATEMENT SHALL BE SUBMITTED PRIOR TO THE CONSTRUCTION OF ANY SEISMIC/WIND-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC/WIND SYSTEM, OR COMPONENT IDENTIFIED IN THESE DOCUMENTS WITH A CIRCLE 'L'.

C. BASIS OF DESIGN

- 1. GOVERNING BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC) 2015
2. RISK CATEGORY: II
3. ROOF LOADS:
a. FLAT-ROOF SNOW LOAD, P_s: 48 PSF
1. GROUND SNOW LOAD, P_g: 57 PSF
2. SNOW EXPOSURE FACTOR, C_e: 1.0
3. SNOW LOAD IMPORTANCE FACTOR, I_s: 1.0
4. THERMAL FACTOR, C_t: 1.2
b. LIVE LOAD = 20 PSF
c. DEAD LOAD = 14 PSF
3. WIND DESIGN
a. BASIC WIND SPEED (3 SECOND GUST): 115 MPH
b. WIND EXPOSURE: C
c. COMPONENT AND CLADDING DESIGN WIND PRESSURE SHALL BE AS REQUIRED PER ASCE 7-10.
4. SEISMIC DESIGN
a. SEISMIC IMPORTANCE FACTOR, I_e: 1.0
b. SITE CLASS: D
c. MAPPED SPECTRAL RESPONSE ACCELERATIONS: S_{ds} = 0.820, S₁ = 0.275
d. SPECTRAL RESPONSE COEFFICIENTS: S_{ps} = 0.641, S₀ = 0.399
e. SEISMIC DESIGN CATEGORY: D
f. BASIC SEISMIC FORCE-RESISTING SYSTEM: SPECIAL CANTILEVERED COLUMN SYSTEM
g. DESIGN BASE SHEAR: V_{ns} = 0.256W V_{ew} = 0.256W
h. SEISMIC RESPONSE COEFFICIENT, C_s: 0.256
i. RESPONSE MODIFICATION FACTOR, R: 2.5
j. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

D. FOUNDATION

- 1. GENERAL
a. DESIGN SOIL PRESSURE: 1500 PSF
b. TOP OF FOOTING ELEVATIONS SHOWN ON THE FOOTING AND FOUNDATION PLAN ARE BASED ON PRELIMINARY GRADING INFORMATION AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION. STEPS WHERE SHOWN ARE AT APPROXIMATE LOCATIONS. ACTUAL STEP LOCATIONS SHALL BE AT THE CONTRACTOR'S DISCRETION BASED UPON FIELD CONDITIONS. ALL EXTERIOR FOUNDATIONS SHALL BEAR A MINIMUM OF 40 INCHES BELOW LOWEST ADJACENT FINAL GRADE.
c. ALL WALLS (EXCEPT CANTILEVERED RETAINING WALLS) SHALL BE ADEQUATELY BRACED AGAINST LATERAL MOVEMENT PRIOR TO BACKFILLING. DESIGN AND ERECTION OF BRACING/SHORING SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. BRACING SHALL REMAIN IN PLACE UNTIL SUPPORTING STRUCTURAL ELEMENTS ARE IN PLACE AND HAVE ATTAINED FULL STRENGTH.
d. UNLESS NOTED OTHERWISE, ALL FOOTINGS AT COLUMNS SHALL BE CENTERED BELOW COLUMNS.
e. UNLESS NOTED OTHERWISE, ALL FOOTINGS SHALL HAVE VERTICAL FACES FORMED WITH STANDARD FORMING MATERIALS (WOOD, METAL, ETC.) WITH PRIOR APPROVAL OF ARCHITECT AND ENGINEER. CONCRETE FOR FOOTINGS CAN BE PLACED IN EXCAVATED SOIL 'FORMS' PROVIDED THAT THE DIMENSIONS ARE INCREASED 3" ON ALL SIDES.
f. ALL FOOTINGS SHALL BE PLACED ON MECHANICALLY COMPACTED FILL COMPACTED TO NOT LESS THAN 95% OF MODIFIED PROCTOR DENSITY (ASTM D-1557).
g. UNLESS NOTED OTHERWISE, ALL CONCRETE SLABS ON EARTH SHALL BEAR ON STRUCTURAL FILL COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY (ASTM D-1557).

E. CONCRETE

- 1. ALL CONCRETE MIX DESIGNS SHALL COMPLY WITH THE PROJECT SPECIFICATIONS AND THE REQUIREMENTS LISTED BELOW:
a. FOOTINGS, GRADE BEAMS, FOUNDATION WALLS
1. WHERE THE TOP OF THE ELEMENT IS EXPOSED OR IS LOCATED WITHIN 40" OF THE LOWEST ADJACENT GRADE (EXPOSURE CATEGORY F1):
1. 28 DAY COMPRESSIVE STRENGTH: 4500 PSI
2. MAXIMUM W/C RATIO: 0.45
3. MAXIMUM AGGREGATE SIZE: 1 1/2"
d. AIR CONTENT: 4.5% +/- 1.5%
2. WHERE THE TOP OF THE ELEMENT IS NOT EXPOSED OR IS NOT LOCATED WITHIN 40" OF THE LOWEST ADJACENT GRADE (EXPOSURE CATEGORY F0):
a. 28 DAY COMPRESSIVE STRENGTH: 3000 PSI
b. RETAINING WALLS (EXPOSURE CATEGORY F1):
1. 28 DAY COMPRESSIVE STRENGTH: 4500 PSI
2. MAXIMUM W/C RATIO: 0.45
3. MAXIMUM AGGREGATE SIZE: 1 1/2"
4. AIR CONTENT: 4.5% +/- 1.5%
c. EXTERIOR JOINTS (DOCKS, ETC.) (EXPOSURE CATEGORY F1):
1. 28 DAY COMPRESSIVE STRENGTH: 4500 PSI
2. MAXIMUM W/C RATIO: 0.45
3. MAXIMUM AGGREGATE SIZE: 1 1/2"
4. MINIMUM AIR CONTENT: 4.5% +/- 1.5%
2. WATER USED IN MIXING CONCRETE SHALL CONFORM TO ASTM C1602.
3. NO PIPES, DUCTS, SLEEVES, ETC. SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER. NO ALUMINUM PRODUCTS SHALL BE EMBEDDED IN CONCRETE. PENETRATIONS THRU STRUCTURAL CONCRETE ELEMENTS MUST BE APPROVED BY THE ENGINEER AND SHALL BE BUILT INTO THE ELEMENT PRIOR TO CONCRETE PLACEMENT.
4. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, ETC. TO BE CAST IN TO CONCRETE, AND FOR EXTENT AND LOCATION OF DEPRESSIONS, CURBS, RAMPS, ETC.
5. UNLESS NOTED OTHERWISE, MINIMUM REINFORCING IN ALL CONCRETE FOUNDATION WALLS SHALL BE AS FOLLOWS:

Table with 4 columns: TOP & BOTTOM BARS, THICKNESS, VERTICAL, HORIZONTAL. Rows include 6", 8", 10", 12" thicknesses and corresponding bar sizes and spacings for vertical and horizontal reinforcement.

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

F. ANCHOR BOLTS/EMBEDDED BOLTS

- 1. ALL ANCHOR BOLTS SHALL HAVE ASTM A-563 HEAVY HEX NUT AND ASTM F-436 WASHERS AT STANDARD OR OVERSIZED HOLES. ANCHOR BOLTS SHALL COMPLY WITH THE LIMITATIONS FOR OVERSIZED HOLES THE STRUCTURAL ENGINEER SHALL BE NOTIFIED TO DETERMINE STEEL PLATE WASHER REQUIREMENTS. ANCHOR BOLTS SHALL COMPLY WITH THE FOLLOWING:
a. AT BRACED FRAMES & MOMENT RESISTING FRAMES - ASTM F1554 GRADE 10S HEADED BOLTS (ASTM A449 THREADED ROD MAY BE USED WITH DOUBLE NUT AND WASHER.)
b. AT WOOD STUD WALLS - ASTM A-307 GRADE HEADED BOLTS. ANCHOR BOLTS IN TREATED LUMBER SHALL BE GALVANIZED OR STAINLESS STEEL. SEE TIMBER NOTES FOR MORE INFORMATION.
c. AT ALL OTHER ANCHOR BOLTS (UNLESS NOTED OTHERWISE) - ASTM F1554 GRADE 36 HEADED BOLTS (ASTM A36 THREADED ROD MAY BE USED WITH DOUBLE NUT AND WASHER.)
2. EMBEDDED BOLTS IN MASONRY SHALL BE (UNLESS NOTED OTHERWISE) ASTM A-307 GRADE HEADED BOLTS.
3. TYPICAL ANCHOR BOLT DETAIL FOR DEFINITIONS OF EMBEDMENT LENGTH, ETC.
4. FURNISH TEMPLATES AND OTHER DEVICES AS NECESSARY FOR PRESETTING ALL BOLTS PRIOR TO PLACING CONCRETE AND/OR GROUT.
5. THE TYPE AND SIZE OF ANCHORS IS AS PERMITTED ABOVE, THEY SHALL BE CLEAR OF SOIL AND DIRT.
6. WHERE REQUIRED FOR ERECTION, HOLES LARGER THAN OVERSIZED MAY BE PERMITTED WITH THE USE OF STEEL PLATE WASHERS AT THE DISCRETION OF THE STRUCTURAL ENGINEER.

G. ADHESIVE/MECHANICAL ANCHORS

- 1. WITHOUT WRITTEN APPROVAL OF THE ENGINEER, CONTRACTOR SHALL NOT SUBSTITUTE POST-INSTALLED ANCHORS WHERE CAST-IN-PLACE ANCHORS ARE SPECIFIED IN THE DRAWINGS.
2. WHERE STRUCTURAL DETAILS SPECIFY SPECIFIC BRANDS AND/OR TYPES OF ADHESIVES OR ANCHORS, SUBSTITUTIONS OF OTHER BRANDS AND/OR TYPES IS NOT ALLOWED, WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
3. ALL ADHESIVE/MECHANICAL ANCHORS SHALL BE INSTALLED, INCLUDING HOLE DRILLING AND PREPARATION, IN ACCORDANCE WITH AN APPROVED INDEPENDENT EVALUATION REPORT (ICC-ES, IAPMO, OR APPROVED EQUAL), AS INDICATED BELOW, AND IN ACCORDANCE WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI).
4. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION. ADHESIVE ANCHORS SHALL NOT BE FULLY LOADED UNTIL CONCRETE HAS REACHED DESIGN STRENGTH.
5. UNLESS APPROVED BY THE ENGINEER OF RECORD, CONCRETE AND DRILLED ANCHOR HOLES SHALL BE DRY AND FREE OF WATER FOR 24 HOURS PRIOR TO ADHESIVE INSTALLATION. CONTACT THE ENGINEER OF RECORD FOR GUIDANCE IF THE CONTRACTOR CHOOSES TO INSTALL IN WET OR DAMP HOLES.
6. CONCRETE TEMPERATURE AT THE TIME OF INSTALLATION SHALL BE MONITORED BY THE CONTRACTOR. CONTRACTOR SHALL COMPLY WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI) RELATIVE TO SUBSTRATE TEMPERATURE.
7. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ANCHORS ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT IN ACCORDANCE WITH ACI 318-11 D.9.2.2. PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. CONTINUOUS SPECIAL INSPECTION SHALL BE PROVIDED FOR THESE ANCHORS.
8. UNLESS NOTED OTHERWISE, ALL ADHESIVE ANCHORS INTO CONCRETE SHALL BE:
a. HILTI HIT-RE 500V3 (ESR-2814) OR HILTI HIT-HY 200 (ESR-3187)
b. SIMPSON SET-3G (ESR-4057) OR AT-XP (ESR-0263)
c. DEWALT PURE 110+ (ESR-3298) OR AC208+ GOLD (ESR-4027-COLD WEATHER).
9. UNLESS NOTED OTHERWISE, ALL ADHESIVE ANCHORS INTO MASONRY SHALL BE:
a. HILTI HIT-HY 270 (ESR-2682) OR HILTI HIT-HY 200 (ESR-3983)
b. SIMPSON SET-XP (ER-0265) OR AT-XP (ER-0281)
c. DEWALT AC100+ GOLD (ESR-3200)
10. UNLESS NOTED OTHERWISE, ALL MECHANICAL ANCHORS INTO CONCRETE SHALL BE:
a. HILTI KWIK BOLT TZ (ESR-1917)
b. DEWALT POWER STUD+ S02 (ESR-2502)
c. SIMPSON STRONG-BOLT 2 (ESR-3037)
11. UNLESS NOTED OTHERWISE, ALL MECHANICAL ANCHORS INTO MASONRY SHALL BE:
a. HILTI KWIK HUS-EZ (ESR-3056)
b. SIMPSON STRONG BOLT 2 WEDGE ANCHOR (ER-0240)
c. DEWALT POWER STUD+ SD1 (ESR-2966), DEWALT SCREWBOLT+ (ESR-1678)
12. UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO CONCRETE SHALL BE:
a. SIMPSON TITEN HD (ESR-2713)
b. DEWALT SCREWBOLT+ (ESR-2526)
c. HILTI KWIK HUS-EZ (ESR-3027)
13. UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO MASONRY SHALL BE:
a. SIMPSON TITEN HD (ESR-1056)
b. DEWALT SCREWBOLT+ (ESR-1678)
c. HILTI KWIK HUS-EZ (ESR-3056)
14. ALL MASONRY CELLS WITHIN 8" OF THE ANCHOR SHALL BE SOLID GROUTED.
15. THE TESTING LABORATORY WILL PERFORM VISUAL INSPECTION OF ANCHORS AND DOWELS AS SPECIFIED IN THE SPECIAL INSPECTION SCHEDULE AND THE APPROVED INDEPENDENT EVALUATION REPORT. TENSION TESTING CAN BE REQUIRED AT THE DIRECTION OF THE STRUCTURAL ENGINEER OF RECORD OR THE SPECIAL INSPECTOR.
16. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON THAT HOLE AND SHIFT THE ANCHOR LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM SPACE OF (2) ANCHOR HOLE DIAMETERS OR 1 INCH, WHICH EVER IS LARGER, OF SOUND CONCRETE/MASONRY BETWEEN THE ANCHOR AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. AT CONTRACTORS OPTION, LOCATE EXISTING REINFORCEMENT PRIOR TO DRILLING/CORING. IF THE ANCHOR OR DOWEL CANNOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.
17. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.
18. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. SUBSTITUTION REQUESTS SHALL INCLUDE AN ICC ESR OR IAPMO REPORT AND SUPPORTING CALCULATIONS INDICATING COMPLIANCE WITH DESIGN INTENT.

H. REINFORCING STEEL

- 1. REINFORCING BAR STRENGTH REQUIREMENTS:
a. ALL REINFORCING BARS EXCEPT AS INDICATED IN NOTE B, SHALL CONFORM TO ASTM STANDARD A-615 GRADE 60 AND ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM STANDARD A-1064 AND SHALL BE SUPPLIED IN FLAT SHEETS. ADEQUATELY TIE AND SUPPORT ALL REINFORCING STEEL AS SPECIFIED BY ACI 117. TO MAINTAIN EXACT REQUIRED POSITION.
2. HEADED SHEAR STUD ASSEMBLIES SHALL CONFORM TO ASTM A1044.
3. STEEL DISCONTINUOUS FIBER REINFORCEMENT SHALL BE DETAILED AND CONFORM TO ASTM A820 AND SHALL HAVE A DIAMETER RATIO NOT SMALLER THAN 50 AND NOT GREATER THAN 100.
4. HEADED DEFORMED BARS SHALL CONFORM TO ASTM A670. OBSTRUCTIONS OR INTERRUPTIONS OF THE BAR DEFORMATIONS, IF ANY, SHALL NOT EXTEND MORE THAN 2 BAR DIAMETERS FROM THE BEARING FACE OF THE HEAD.
5. ALL REINFORCING STEEL SHALL BE TIED IN PLACE AND ADEQUATELY SUPPORTED PRIOR TO PLACING CONCRETE. WET STABBING OF ANY REINFORCING STEEL IS NOT PERMITTED, UNLESS SPECIFICALLY DETAILED OTHERWISE OR APPROVED BY THE ENGINEER.
6. ALL FIELD BENT DOWELS SHALL BE GRADE 40 WITH SPACING INDICATED REDUCED BY 1/3.
7. UNLESS NOTED OTHERWISE, REINFORCEMENT SHALL HAVE THE FOLLOWING CONCRETE COVERAGE:
a. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ... 3"
b. EXPOSED TO EARTH OR WEATHER:
1. SLABS, WALLS, JOISTS, #1 & SMALLER ... 3/4"
2. #5 & SMALLER ... 1-1/2"
c. NOT EXPOSED TO WEATHER OR EARTH:
1. SLABS, WALLS, JOISTS, #1 & SMALLER ... 3/4"
2. BEAMS, COLUMNS, MAIN REINFORCING OR TIES ... 1-1/2"
d. SLAB ON GRADE
1. PLACE REINFORCING AT CENTER OF SLAB UNLESS INDICATED OTHERWISE.
8. EXCEPT WHERE NOTED ON PLANS OR DETAILS, CONTINUOUS REINFORCEMENT SHALL BE SPLICED AT POINTS OF MINIMUM STRESS BY LAPPING PER THE REBAR LAP SCHEDULE.
9. REINFORCING STEEL MAY BE SPLICED WITH MECHANICAL COUPLERS THAT HAVE A TENSION CAPACITY OF AT LEAST 125% OF THE STRENGTH OF THE BAR. MECHANICAL COUPLERS SHALL BE A POSITIVE CONNECTING TYPE COUPLER, AND SHALL BE INSTALLED IN ACCORDANCE WITH AN APPROVED ICC RESEARCH REPORT, WHERE THESE ARE USED. SPLICING ON ADJACENT BARS SHALL BE STAGGERED AT LEAST 24 INCHES ALONG THE LENGTH OF THE BARS.
10. ALL VERTICAL REINFORCING IN STRUCTURAL ELEMENTS ABOVE SHALL BE SPLICED WITH MATCHING DOWELS EMBEDDED WITHIN THE FOOTINGS OR STRUCTURE. SPLICING LENGTHS SHALL COMPLY WITH REBAR LAP SCHEDULE. DOWELS INTO FOOTINGS SHALL TERMINATE WITH A STANDARD HOOK AND SHALL EXTEND TO WITHIN 4" OF THE BOTTOM OF THE FOOTING, BUT NEED NOT EXTEND MORE THAN 20" INTO FOOTING.
11. DO NOT WELD REINFORCING EXCEPT AS NOTED ON PLANS, WHERE REINFORCING IS WELDED, USE ASTM A-706 REINFORCING.
12. REINFORCING TIES AND TENDONS SHALL BE SUPPORTED BY NYLON CONES, PLASTIC-COATED TIE-WIRES, OR PLASTIC-COATED CHAIRS. REINFORCING IN FOOTINGS IS PERMITTED TO BE SUPPORTED ON CONCRETE DOBIES.
13. UNLESS NOTED OTHERWISE, HOOKS, STIRRUPS, TIES, AND OTHER BENDS IN REINFORCING STEEL SHALL MEET THE STANDARDS SET FORTH IN ACI 318/318R-14. UNLESS OTHERWISE PERMITTED BY THE ENGINEER, ALL REINFORCEMENT SHALL BE BENT COLD. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, EXCEPT AS SHOWN ON THESE DRAWINGS OR OTHERWISE PERMITTED BY THE ENGINEER.
14. UNLESS SPECIFICALLY NOTED AND/OR DETAILED IN THE STRUCTURAL DRAWINGS CONDUIT SHALL NOT BE IN CONTACT WITH REINFORCING STEEL.

I. STRUCTURAL STEEL

- 1. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING:
a. ANSII/AISC 360-10 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", WITH "COMMENTARY" AND "SUPPLEMENTS" AS REQUIRED BY BUILDING CODE.
b. AISC 303-10 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" INCLUDING THE FOLLOWING SECTIONS: 4.4, 4.4.1, AND 4.4.2.
c. AISI "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".
d. AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS"
e. AWS D1.1 AND 1.5 "STRUCTURAL WELDING CODE" (EXCEPT SPECIFIC ITEMS DO NOT APPLY IF THEY CONFLICT WITH AISC).
f. ANSII/AISC 341-10 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS".
2. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING:
a. WIDE FLANGE SHAPES AND WT SHAPES - ASTM A992
b. OTHER SHAPES AND PLATES - ASTM A-36 (UNO)
c. HOLLOW STRUCTURAL SECTIONS (HSS) - ASTM A-500, GRADE C FOR SQUARE, RECTANGULAR AND ROUND SHAPES (FY = 50 KSI FOR SQUARE AND RECTANGULAR SHAPES AND 46 KSI FOR ROUND SHAPES)
d. DEFORMED BAR ANCHORS (DBA) - ASTM A-496, WELDED IN ACCORDANCE WITH AWS D1.1
e. HEADED STUD ANCHORS (HSA) - ASTM A-108, GRADE 1015 STEEL AND WELDED IN ACCORDANCE WITH AWS D1.1 FOR TYPE 'B'. USE 3/4" DIAMETER STUDS, UNLESS NOTED OTHERWISE.
f. THREADED ROD - ASTM A-449
g. NON-SHRINK GROUT - ASTM C110. NON-SHRINK GROUT SHALL BE PRE-PACKAGED, NON-METALLIC, WITH A 28-DAY COMPRESSIVE STRENGTH OF 8,000 PSI.
3. CONNECTIONS SHALL COMPLY WITH THE STRUCTURAL DRAWINGS UNLESS WRITTEN APPROVAL TO CHANGE IS GIVEN BY THE STRUCTURAL ENGINEER.
4. ALL SHOP FABRICATIONS SHALL BE PERFORMED BY AN APPROVED FABRICATOR IN ACCORDANCE WITH SECTIONS 1702 AND 1704 OF THE IBC OR WITH SHOP INSPECTION BY AN INDEPENDENT AGENCY IN ACCORDANCE WITH SECTION 1704.2.5 OF THE IBC.
5. WELDING
a. ALL WELDING AND CUTTING SHALL BE PERFORMED BY AWS QUALIFIED WELDERS IN ACCORDANCE WITH ANSII/AWS D1.1 (LATEST EDITION).
b. USE E-70XX ELECTRODES UNLESS NOTED OTHERWISE. E-60XX MAY BE USED FOR WELDING STEEL DOCKS.
c. ALL INTERSECTING STEEL SHAPES WHICH ARE NOT CONNECTED WITH BOLTS SHALL BE WELDED TOGETHER WITH A FILLET WELD ALL AROUND UNLESS NOTED OTHERWISE, WHERE WELD SIZES ARE NOT SHOWN, USE THE FOLLOWING:
1. WHERE THE THICKNESS OF THE CONNECTED PARTS IS EQUAL TO OR THICKER THAN 1/4", WELD SIZE SHALL BE 1/16" LESS THAN THE THICKNESS OF THE THINNEST PART.
2. WHERE ANY OF THE CONNECTED PARTS IS LESS THAN 1/4" THICK, WELD SIZE SHALL BE THE SAME AS THE THICKNESS OF THE THINNEST PART.
d. WELDING OF HSA'S AND DBA'S SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS.
e. WHEREVER POSSIBLE, WELDS SHALL BE SHOP WELDS. SPECIAL CONSIDERATIONS, SUCH AS ITEMS WHICH MAY NEED ADJUSTMENT AT THE SITE, REQUIRE THAT SOME WELDS BE FIELD WELDS. WHERE QUESTIONS OR DISCREPANCIES OCCUR THE CONTRACTOR SHALL COORDINATE THE WORK BETWEEN THE SHOP FABRICATOR AND THE STEEL ERECTOR.
6. BOLTING
a. UNLESS NOTED OTHERWISE, ALL STRUCTURAL STEEL TO STEEL CONNECTIONS SHALL USE HIGH STRENGTH BOLTS CONFORMING TO ASTM A-325.
b. UNLESS NOTED OTHERWISE, ALL BOLTING IS CLASSIFIED AS NON-SLIP CRITICAL BEARING TYPE CONNECTIONS WITH THREADS INCLUDED IN SHEAR PLANE. TIGHTEN BOLTS TO A SNUG TIGHT CONDITION WITH ALL PLIES OF THE JOINT IN FIRM CONTACT.
c. WHERE OVERSIZED OR SLOTTED HOLES OCCUR IN THE OUTER PLY, AN ASTM F436 WASHER OR 5/16" THICK COMMON PLATE WASHER SHALL BE USED AS REQUIRED TO COMPLETELY COVER THE HOLE.
d. BOLTS SHALL BE CENTERED IN SLOTTED HOLES, UNLESS NOTED OTHERWISE.
e. WHERE A STEEL BEAM TO BEAM CONNECTION IS NOT SHOWN, PROVIDE AN AISC STANDARD FRAMED CONNECTION SIZED FOR 1/2 OF THE TOTAL LOAD CAPACITY OF THE BEAM FOR THE SPAN AND STEEL SPECIFIED.
7. METAL DECKING
a. UNLESS NOTED OTHERWISE, METAL ROOF DECK SHALL BE 20 GAUGE TYPE B GALVANIZED STEEL.
b. DECK, SEE ROOF DECK SCHEDULE FOR ATTACHMENTS.
c. ALL DECK SHALL BE CONTINUOUS OVER 3-SPANS, WHERE NOT POSSIBLE, THE DECK SUPPLIER/CONTRACTOR SHALL PROVIDE HEAVIER GAUGE DECK AS NEEDED TO PROVIDE THE EQUIVALENT PERFORMANCE OF THE SPECIFIED DECK WITH 3-SPAN CONTINUITY.
d. SEE TYPICAL DETAILS FOR SUPPORT OF DECK AT OPENINGS.
e. PAINTED STEEL DECK SHALL CONFORM TO ASTM A1008 AND GALVANIZED STEEL DECK SHALL CONFORM TO A653 GRADE G60.
f. BUILDING ELEMENTS MAY BE SUPPORTED BY HANGING DIRECTLY FROM METAL DECKING, PROVIDED THAT THE TOTAL WEIGHT PER CONNECTION IS LESS THAN 50 LBS AND THAT THE ATTACHMENT TO THE DECKING IS DISTRIBUTED ACROSS AT LEAST TWO RIBS AND SPACED AT LEAST 6 FEET APART IN ANY DIRECTION.
8. PROVIDE FULL DEPTH WEB STIFFENER PLATES AT EACH SIDE OF STEEL BEAMS AT ALL BEARING (EXCEPT SECONDARY FRAMING) POINTS. STIFFENER PLATES SHALL BE THICKNESS SHOWN UNLESS NOTED OTHERWISE AND SHALL BE WELDED BOTH SIDES WITH FILLET WELDS ALL AROUND. PROVIDE WITH STIFFENER THICKNESS WELD THICKNESS:
8 1/4" x 8" x 12 1/2" 1/4" 3/16"
12 1/2" x 8" x 12 1/2" 1/2" 5/16"
9. FABRICATORS AND SUPPLIERS SHALL COORDINATE PAINT/FINISHES WITH REQUIREMENTS FOR DIRECT APPLIED INSULATION, FIREPROOFING, ETC. AS NOTED IN THE PROJECT SPECIFICATIONS.
10. WHEN DETERMINING THE FIRE RESISTANCE OF ASSEMBLIES, USE THE FOLLOWING: STEEL ROOF MEMBERS ARE CONSIDERED UN-RESTRAINED AND STEEL FLOOR FRAMING MEMBERS ARE CONSIDERED RESTRAINED.
11. UNLESS NOTED OTHERWISE, ALL HORIZONTAL FRAMING MEMBERS SHALL BE ERECTED WITH THE NATURAL CROWN UP.
12. UNLESS OTHERWISE SHOWN OR DETAILED IN THE PLANS, ALL STEEL COLUMNS, BEAMS, BRACES, STRUTS, ETC. SHALL BE CONTINUOUS BETWEEN CONNECTIONS OR SUPPORTS. SPLICES IN MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL BY THE ENGINEER OF RECORD.

LEGEND OF SYMBOLS AND ABBREVIATIONS

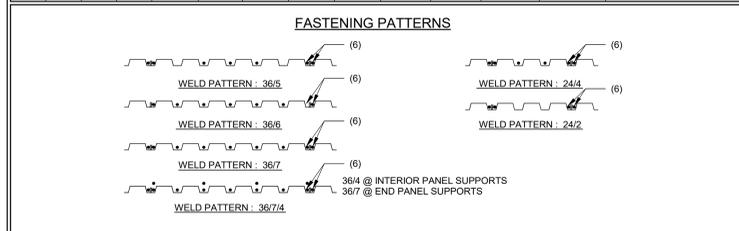
Table mapping symbols to abbreviations: AB = ANCHOR BOLT, ARCH = ARCHITECT, BLW = BELOW, BN = BUCKLING NAILING, BRB = BUCKLING RESTRAINED BRACE, BRBF = BUCKLING RESTRAINED BRACE FRAME, CJP = COMPLETE JOINT PENETRATION, CL = CENTERLINE, CMU = CONCRETE MASONRY UNIT, COL = COLUMN, CONC = CONCRETE, CP = CONCRETE PIER, DC = DEMAND CRITICAL, DIA./Ø = DIAMETER, DBA = DEFORMED BAR ANCHOR, DECK = DECK BEARING ELEVATION, ELEV = ELEVATION, EN = EDGE NAILING, ESD = EDGE OF DECK, FDN = FOUNDATION, FTG = FOOTING, FFE = FINISHED FLOOR ELEVATION, GB = CONCRETE GRADE BEAM, HSA = HEADED STUD ANCHOR, JSE = JOIST BEARING ELEVATION, KB = KICKER BRACE, MAX = MAXIMUM, MB = MASONRY BEAM, MC = MASONRY COLUMN, MECH = MECHANICAL, MEZZ = MEZZANINE, MIN = MINIMUM, MJ = MASONRY JAMB, MW = MASONRY WALL, NS, FS = NEAR SIDE, FAR SIDE, OAE = OR APPROVED EQUAL, OPF = OPPOSITE, PAF = POWDER ACTUATED FASTENER, PL = PLATE, REINF = REINFORCING, REQ'D = REQUIRED, SIM = SIMILAR, SSJ = STEEL STUD HEADER, SSJ = STEEL STUD JAMB, SSS = STEEL STUD SILL, SSJ = STEEL STUD WALL, TOB = TOP OF BEAM ELEVATION, TOC = TOP OF CONCRETE SLAB, TOF = TOP OF FOOTING, TOG = TOP OF GIRDER ELEVATION, TOM = TOP OF MASONRY, TOS = TOP OF STEEL ELEVATION, TYP = TYPICAL, UNO = UNLESS NOTED OTHERWISE.

Structural Sheet Index

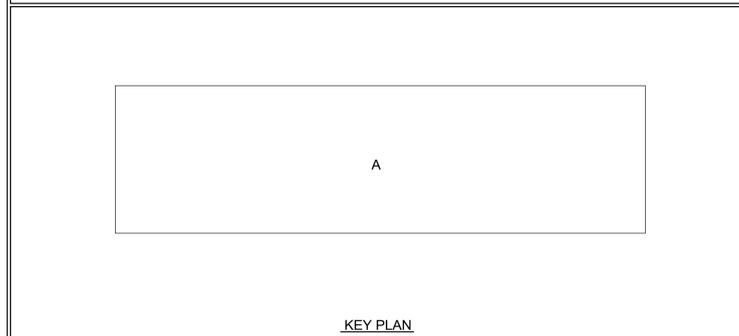
Table with 2 columns: SHEET NUMBER, SHEET NAME. Rows include S001 STRUCTURAL NOTES, S002 SCHEDULES, S003 SCHEDULES, S101 FOOTING, FOUNDATION, AND ROOF FRAMING PLAN, S201 DETAILS, S202 DETAILS.

INCLUDED AS PART OF CHANGE ORDER #3

| ROOF DECK SCHEDULE | | | | | | | | | | | | | |
|--------------------|-------|------|------------|-----------------------------|---------|----------------|---------------|-----------------------------|---------------------|-------------------------|----------|--------|-----|
| AREA | DECK | | ATTACHMENT | | | | | | MIN. SHEAR CAPACITY | MAX. FLEXIBILITY FACTOR | COMMENTS | | |
| | DEPTH | TYPE | GA. | SUPPORTS | | SIDE SEAMS | | SUPPORTS PARALLEL TO FLUTES | | | | | |
| | | | | DIA. WELD @ INTERIOR FLUTES | PATTERN | #12 TEK SCREWS | TOP SEAM WELD | PUNCH LOCK ⁽¹⁾ | | | | Ø WELD | SPA |
| A | 1 1/2 | B | 20 | 3/4 | 36/7 | --- | 2-12 | 12" | 3/4 | 12" | 400 | --- | --- |



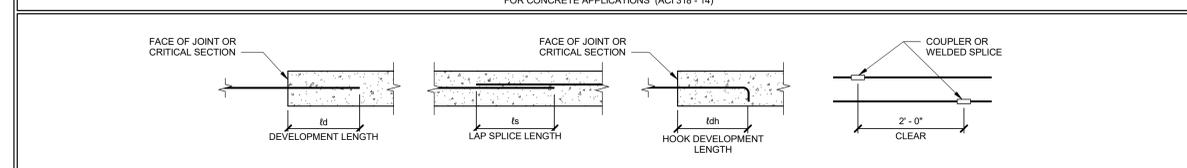
- NOTES**
- ALL ROOF DECKING TO BE SUPPLIED BY VERCO, OR APPROVED EQUAL. ALTERNATE DECKING SHALL BE SUBMITTED WITH CURRENT ICC APPROVAL TO ENGINEER FOR REVIEW AND APPROVAL. ALTERNATE DECKING SYSTEMS SHALL MEET OR EXCEED THE MINIMUM SHEAR CAPACITY AND SHALL PROVIDE LESS THAN OR EQUAL TO THE MAXIMUM FLEXIBILITY FACTOR LISTED IN THE SCHEDULE.
 - TOP SEAM WELDS SHALL BE 1-1/2" LONG AND SHALL BE ACCORDING TO SDI STANDARDS.
 - USE NESTABLE (OVERLAPPING) SIDE SEAMS AT SCREW ATTACHMENTS AND INTERLOCKING SIDE SEAMS AT WELDS.
 - ALL DECK WITH A PROFILE DEPTH OF 2" OR LESS SHALL HAVE NESTED OR TELESCOPED END LAPS.
 - A 1-1/4" x 5/8" EFFECTIVE ARC SEAM WELD IS REQUIRED AT SUPPORTS ADJACENT TO SIDELAPS.



| SPECIAL INSPECTION SCHEDULE 1, 2 | | | | |
|---|-------------------------|-----------------------|-------------------------|--|
| ESTABLISHED PER 2015 IBC SECTION 110 AND CHAPTER 17 | | | | |
| ITEM | CONTINUOUS ³ | PERIODIC ¹ | REFERENCE | COMMENTS |
| PRE-FAB CONSTRUCTION (IBC 1704.2) | | | | |
| REINFORCING STEEL PLACEMENT | | ● | REFERENCE NOTES P1 & P2 | P1. SPECIAL INSPECTION IS NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION, PROVIDED THE FABRICATOR COMPLES WITH IBC. |
| WELDING OF REINFORCING STEEL | ● | | REFERENCE NOTE C2 | P2. INSPECTION FOR PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE MATERIAL USED IN THE CONSTRUCTION TOOK PLACE ON SITE. SPECIAL INSPECTION WILL NOT BE REQUIRED DURING PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE. (SEE NOTE 2.) |
| EMBEDDED BOLTS & PLATES | ● | | | |
| VERIFYING REQUIRED DESIGN MIX | | ● | | |
| CONCRETE PLACEMENT / SAMPLING | ● | | REFERENCE NOTE C3 | C1. SPECIAL INSPECTION IS NOT REQUIRED FOR CONC. ISOLATED SPREAD FOOTINGS, CONTINUOUS FOOTINGS, NON-STRUCTURAL SLABS, FOUNDATION WALLS, PATIOS, DRIVEWAYS, AND SIDEWALKS PROVIDED THE REQUIREMENTS OF IBC 1705.3 ARE MET. |
| CURING TEMPERATURE / TECHNIQUES | | ● | | C2. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR VERIFICATION OF THE WELDABILITY OF REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS, AND SHEAR REINFORCEMENT. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR WELDING OF OTHER ASTM A 706 REINFORCING STEEL NOT INCLUDED IN THE CONTINUOUS SPECIAL INSPECTION REQUIREMENTS NOTED ABOVE. |
| ERECTION OF PRECAST MEMBERS | | ● | | C3. PERFORM AIR SLUMP AND TEMP. TESTS WHEN CONCRETE SAMPLES ARE CAST. |
| VERIFICATION OF IN-SITU STRENGTH | | ● | REFERENCE NOTE C4 | C4. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR VERIFICATION OF IN-SITU CONCRETE STRENGTH FOR POST-TENSIONED CONCRETE PRIOR TO TENSIONING TENDONS OR REMOVING SHORING OR FORMS. |
| EPOXY / EXPANSION ANCHOR PLACEMENT | ● | | REFERENCE NOTE C5 | C5. EPOXY AND EXPANSION ANCHORS INTO MASONRY OR CONCRETE MAY BE USED ONLY WHEN APPROVED BY ARCHITECT, AND/OR ENGINEER USING AN APPROVED PRODUCT WITH CURRENT PUBLISHED ICC RESEARCH REPORT NUMBERS. COORDINATE CONTINUOUS/PERIODIC SPECIAL INSPECTION REQUIREMENTS WITH ICC REPORT. |
| SOILS (IBC 1705.6) | | | | |
| VERIFY ADEQUATE MATERIALS BELOW FOOTINGS | | ● | REFERENCE NOTE F1 | F1. SPECIAL INSPECTION OF SOILS SHALL REFERENCE THE APPROVED SOILS REPORT TO DETERMINE COMPLIANCE. |
| EXCAVATIONS EXTEND TO PROPER DEPTH AND REACH PROPER MATERIAL | | ● | REFERENCE NOTE F1 | F2. WHERE SOILS REPORT IS NOT PROVIDED SPECIAL INSPECTIONS ARE REQUIRED TO VERIFY THAT THE IN-PLACE DRY DENSITY OF THE COMPACTED FILL IS NOT LESS THAN 90 PERCENT OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT DETERMINED IN ACCORDANCE WITH ASTM D 1557. |
| CLASSIFY & TEST CONTROLLED FILL MATERIALS | | ● | REFERENCE NOTE F2 | |
| PERFORM MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL | ● | | REFERENCE NOTE F1 | |
| PROPERLY PREPARED SITE AND SUB-GRADE PRIOR TO FILL. | | ● | REFERENCE NOTE F1 | |

- GENERAL SPECIAL INSPECTION NOTES :**
- THE ITEMS MARKED WITH A "●" IN THE SPECIAL INSPECTION SCHEDULE SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL, SAMPLING AND TESTING REQUIREMENTS, REFER TO THE MATERIAL SAMPLING AND TESTING SECTION, THE PROJECT SPECIFICATIONS, AND THE SPECIFIC GENERAL NOTES SECTIONS. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL. ANY ITEMS WHICH FAIL TO COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL, ARCHITECT, AND ENGINEER PRIOR TO COMPLETION OF THAT PHASE OF WORK. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDING DESIGNED COMPONENTS.
 - ANY CONSTRUCTION OR MATERIAL THAT HAS FAILED INSPECTION SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT.
 - CONTINUOUS SPECIAL INSPECTION MEANS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION MEANS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK. (IBC SECTION 1702)

2015 IBC CONCRETE REBAR LAP SPLICE SCHEDULE
FOR CONCRETE APPLICATIONS (ACI 318 - 14)



| BAR LOCATION | CONCRETE TYPE | STRENGTH | CONCRETE REINFORCING & SPLICE LENGTHS (IN) | | | | | | | | | | | | | | | | | | | | COMMENTS | | | | |
|-------------------------------------|---------------|----------|--|----|-----|----|----|-----|----|----|-----|----|-------------|-----|----|----|-----|----|----|-----|----|----|----------|-----|----|----|--|
| | | | BAR SIZE #3 | | | | | | | | | | BAR SIZE #4 | | | | | | | | | | | | | | |
| | | | ld | ls | ldh | ld | ls | ldh | ld | ls | ldh | ld | ls | ldh | ld | ls | ldh | ld | ls | ldh | ld | ls | | ldh | | | |
| VERT. WALL BARS, FILL ON METAL DECK | NWC | 3000 PSI | 17 | 22 | 8 | 22 | 29 | 8 | 28 | 36 | 10 | 33 | 43 | 12 | 48 | 62 | 13 | 55 | 72 | 15 | 62 | 17 | 69 | 19 | 76 | 30 | |
| HORIZ. WALL BARS, FOOTING TOP BARS | NWC | 3000 PSI | 17 | 22 | 8 | 22 | 29 | 8 | 28 | 36 | 10 | 33 | 43 | 12 | 48 | 62 | 13 | 55 | 72 | 15 | 62 | 17 | 69 | 19 | 76 | 30 | |
| BEAM BOTTOM BARS, COLUMN BARS | NWC | 3000 PSI | 17 | 22 | 8 | 22 | 29 | 11 | 28 | 36 | 14 | 33 | 43 | 16 | 48 | 62 | 19 | 55 | 72 | 22 | 62 | 25 | 69 | 27 | 76 | 30 | |
| FOOTING BOTTOM BARS | NWC | 3000 PSI | 12 | 16 | 8 | 14 | 18 | 8 | 17 | 22 | 10 | 20 | 26 | 12 | 29 | 38 | 13 | 33 | 43 | 15 | 37 | 17 | 42 | 19 | 46 | 30 | |
| BEAM TOP BARS | NWC | 3000 PSI | 22 | 29 | 8 | 29 | 38 | 11 | 36 | 47 | 14 | 43 | 56 | 16 | 63 | 82 | 19 | 72 | 94 | 22 | 81 | 25 | 90 | 27 | 98 | 30 | |
| SLAB ON GRADE | NWC | 3000 PSI | 12 | 16 | 8 | 14 | 18 | 8 | 17 | 22 | 10 | 20 | 26 | 12 | 32 | 42 | 13 | 42 | 55 | 15 | 53 | 17 | 69 | 19 | 76 | 30 | |

- NOTES :**
- MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICES SHOWN. SEE STRUCTURAL NOTES FOR MINIMUM COUPLER CAPACITY. WHERE MECHANICAL COUPLERS ARE USED, STAGGER ADJACENT SPLICES A MINIMUM OF 24" AS INDICATED ABOVE.
 - DEVELOPMENT LENGTHS SHALL BE INCREASED BY 50% FOR STRAIGHT BAR DEVELOPMENT AND 20% FOR HOOKED BARS WHERE EPOXY COATING IS USED.
 - WHEN SPLICING BARS OF DIFFERENT SIZES, USE LAP SPLICE LENGTH OF LARGER BARS UNO.
 - SPLICE BARS LARGER THAN #11 USING MECHANICAL COUPLERS.

| FOOTING SCHEDULE | | | | | | | | |
|------------------|-------|--------|-------|-------------------|------|------------------|------|---------|
| MARK | WIDTH | LENGTH | THICK | LENGTHWISE REINF. | | CROSSWISE REINF. | | REMARKS |
| | | | | NO. | SIZE | NO. | SIZE | |
| FC2 | 2'-0" | CONT. | 12" | (2) | #5 | -- | -- | -- |



TEL: 801.521.9111 FAX: 801.521.9158

SCHEDULES

SALT LAKE CITY, UTAH 84101

171 WEST PIERPONT AVE.

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OGDEN VALLEY BRANCH
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DATE: 06.11.19
06.24.19
07.25.19
DRAWN BY: BLP, MMP
PROJECT NO.: 17110

PRESCOTT MUIR ARCHITECT

INCLUDED AS PART OF CHANGE ORDER #3

SHEET NO. S002



STRUCTURAL STEEL SPECIAL INSPECTION SCHEDULE

ESTABLISHED PER 2015 IBC SECTION 1705.2.1

| INSPECTION TASKS PRIOR TO WELDING (TABLE N5.4-1) | FABRICATOR QUALITY CONTROL | | SPECIAL INSPECTOR QUALITY ASSURANCE | | NOTES | INSPECTION TASKS PRIOR TO BOLTING (TABLE N5.6-1) | CONTINUOUS | PERIODIC | CONTINUOUS | PERIODIC | NOTES | |
|---|----------------------------|----------|-------------------------------------|----------|--|--|------------|------------|------------|----------|-------|---|
| | CONTINUOUS | PERIODIC | CONTINUOUS | PERIODIC | | | | | | | | |
| WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE | ● | | ● | | 1. PERIODIC - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. 2. CONTINUOUS - PERFORM THESE TASKS FOR EACH BOLTED JOINT OR MEMBER. 3. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR. 4. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER, OR ENGINEER OF RECORD (EOR). NONDESTRUCTIVE TESTING (NDT) SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN ACCORDANCE WITH SECTION N7. QC AND QA INSPECTORS SHALL BE QUALIFIED IN ACCORDANCE WITH AISC 360-10 CHAPTER N4. 5. NONDESTRUCTIVE TESTING PERSONNEL SHALL BE QUALIFIED IN ACCORDANCE WITH AISC 360-10 CHAPTER N4.3. 6. OBSERVATION OF WELDING OPERATIONS AND VISUAL INSPECTION OF IN-PROCESS AND COMPLETED WELDS SHALL BE THE PRIMARY METHOD TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. FOR STRUCTURAL STEEL, ALL PROVISIONS OF AWS D1.1 / D1.1M STRUCTURAL WELDING CODE - STEEL FOR STATICALLY LOADED STRUCTURES SHALL APPLY. 7. THERMALLY CUT SURFACES OF ACCESS HOLES SHALL BE TESTED BY QA USING MT OR PT. WHEN THE FLANGE THICKNESS EXCEEDS 2 IN. (50mm) FOR ROLLED SHAPES, OR WHEN THE WEB THICKNESS EXCEEDS 2 IN. (50mm) FOR BUILT-UP SHAPES, ANY CRACK SHALL BE DEEMED UNACCEPTABLE REGARDLESS OF SIZE OR LOCATION. WHEN REQUIRED BY APPENDIX 3, TABLE A-3.1, WELDED JOINTS REQUIRING WELD SOUNDNESS TO BE ESTABLISHED BY RADIOGRAPHICS OR ULTRASONIC INSPECTION SHALL BE TESTED BY QA AS PRESCRIBED. REDUCTION IN THE RATE OF UT IS PROHIBITED. 8. REDUCTION OF RATE OF ULTRASONIC TESTING - THE RATE OF UT IS ONLY PERMITTED TO BE REDUCED IF APPROVED BY THE EOR AND THE AHJ PER AISC 360-10 CHAPTER N5e. 9. FOR STRUCTURES IN RISK CATEGORY II, WHERE THE INITIAL RATE FOR UT IS 10%, THE NDT RATE FOR AN INDIVIDUAL WELDER OR WELDING OPERATOR SHALL BE INCREASED TO 100% SHOULD THE REJECT RATE, THE NUMBER OF WELDS CONTAINING UNACCEPTABLE DEFECTS DIVIDED BY THE NUMBER OF WELDS COMPLETED, EXCEEDS 5% OF THE WELDS TESTED FOR THE WELDER OR WELDING OPERATOR. A SAMPLING OF AT LEAST 20 COMPLETED WELDS FOR A JOB SHALL BE MADE PRIOR TO IMPLEMENTING SUCH AN INCREASE. WHEN THE REJECT RATE FOR THE WELDER OR WELDING OPERATOR, AFTER A SAMPLING OF AT LEAST 40 COMPLETED WELDS, HAS FALLEN TO 5% OR LESS, THE RATE OF UT SHALL BE RETURNED TO 10%. FOR EVALUATING THE REJECT RATE OF CONTINUOUS WELDS OVER 3 FT (1M) IN LENGTH WHERE THE EFFECTIVE THROAT IS 1 IN. (25mm) OR LESS, EACH 12 IN. (300mm) INCREMENT OR FRACTION THEREOF SHALL BE CONSIDERED AS ONE WELD. FOR EVALUATING THE REJECT RATE ON CONTINUOUS WELDS OVER 3 FT (1M) IN LENGTH WHERE THE EFFECTIVE THROAT IS GREATER THAN 1 IN. (25mm), EACH 6 IN. (150mm) OF LENGTH OR FRACTION THEREOF SHALL BE CONSIDERED AS ONE WELD. 10. ALL NDT PERFORMED SHALL BE DOCUMENTED. FOR SHOP FABRICATION, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY PIECE MARK AND LOCATION IN THE PIECE. FOR FIELD WORK, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY LOCATION IN THE STRUCTURE, PIECE MARK, AND LOCATION IN THE PIECE. WHEN A WELD IS REJECTED ON THE BASIS OF NDT, THE NDT RECORD SHALL INDICATE THE LOCATION OF THE DEFECT AND THE BASIS OF REJECTION. 11. DEMAND CRITICAL WELDS SHALL MEET THE PROVISION FOUND IN AISC 341-10 AND WELDING METHODS, PROCEDURES AND QUALITY CONTROL SHALL COMPLY WITH AWS D1.1 AND THE FOLLOWING: a. ARC STRIKES, GOUGES AND OTHER IMPERFECTIONS WITHIN OR ADJACENT TO THE JOINT, SHALL BE REPAIRED OR REMOVED. b. PREHEAT AND INTER-PASS REQUIREMENTS AS OUTLINED IN SECTION 3.5. c. UNREPAIRED CRACKS, GOUGES, AND NOTCHES WILL NOT BE PERMITTED IN THE JOINT AREA. d. USE ELECTRODES WITH CHАРRY V-NOTCH ABSORBED ENERGY EQUAL TO OR GREATER THAN 20 FT-LBS AT 20 DEGREES FAHRENHEIT UNDER AWS A5 CLASSIFICATION TEST METHODS, AND 40 FT-LBS AT 70 DEGREES FAHRENHEIT USING TEST PROCEDURES PRESCRIBED IN APPENDIX X OF AISC 358. ACCEPTABLE ELECTRODES INCLUDE E70TG-K2, E71 T-1. | ● | ● | ● | ● | ● | ● | |
| MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE | ● | | ● | | | MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS | | ● | | ● | | 1. PERIODIC - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. 2. CONTINUOUS - PERFORM THESE TASKS FOR EACH BOLTED CONNECTION. 3. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR. 4. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER, OR ENGINEER OF RECORD (EOR). NONDESTRUCTIVE TESTING (NDT) SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN ACCORDANCE WITH SECTION N7. 5. FOR SNUG-TIGHT JOINTS, PRE-INSTALLATION VERIFICATION TESTING AS SPECIFIED IN TABLE N5.6-1 AND MONITORING OF THE INSTALLATION PROCEDURES AS SPECIFIED IN TABLE N5.6-2 ARE NOT APPLICABLE. THE QC AND QA NEED NOT BE PRESENT DURING THE INSTALLATION OF FASTENERS IN SNUG-TIGHT JOINTS. 6. FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS, WHEN THE INSTALLER IS USING THE TURN-OF-NUT METHOD WITH MATCHMARKING TECHNIQUES, THE DIRECT TENSION INDICATOR METHOD, OR THE TWIST-OFF-TYPE TENSION CONTROL BOLT METHOD, MONITORING OF BOLT PRETENSIONING PROCEDURES SHALL BE AS SPECIFIED IN TABLE N5.6-2. THE QC AND QA NEED NOT BE PRESENT DURING THE INSTALLATION OF FASTENERS WHEN THESE METHODS ARE USED BY THE INSTALLER. 7. FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS, WHEN THE INSTALLER IS USING THE CALIBRATED WRENCH METHOD OR THE TURN-OF-NUT METHOD WITHOUT MATCHMARKING, MONITORING OF BOLT PRETENSIONING PROCEDURES SHALL BE AS SPECIFIED IN TABLE N5.6-2. THE QC AND QA SHALL BE ENGAGED IN THEIR ASSIGNED INSPECTION DUTIES DURING INSTALLATION OF FASTENERS WHEN THESE METHODS ARE USED BY THE INSTALLER. 8. OBSERVATION OF BOLTING OPERATIONS SHALL BE THE PRIMARY METHOD USED TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP INCORPORATED IN CONSTRUCTION DOCUMENTS ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND THE PROVISIONS OF THE RCSC SPECIFICATION. |
| MATERIAL IDENTIFICATION (TYPE / GRADE) | | ● | | ● | | FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS | | ● | | ● | | |
| WELDER IDENTIFICATION SYSTEM ¹ | | ● | | ● | | PROPER FASTENERS SELECTED FOR THE JOINT DETAIL, GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE) | | ● | | ● | | |
| FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) | | ● | | ● | | PROPER BOLTING PROCEDURES SELECTED FOR JOINT DETAIL | | ● | | ● | | |
| * JOINT PREPARATION | | ● | | ● | | CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS | | ● | | ● | | |
| * DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) | | ● | | ● | | PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED | | ● | | ● | | |
| * CLEANLINESS (CONDITION OF STEEL SURFACES) | | ● | | ● | | PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS | | ● | | ● | | |
| * TACKING (TACK WELD QUALITY AND LOCATION) | | ● | | ● | | INSPECTION TASKS DURING BOLTING (TABLE N5.6-2) | CONTINUOUS | PERIODIC | CONTINUOUS | PERIODIC | | |
| * BACKING TYPE AND FIT (IF APPLICABLE) | | ● | | ● | | FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED | | ● | | ● | | |
| CONFIGURATION AND FINISH OF ACCESS HOLES | | ● | | ● | | JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION | | ● | | ● | | |
| FIT-UP OF FILLET WELDS | | ● | | ● | | FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING | | ● | | ● | | |
| * DIMENSIONS (ALIGNMENT, GAPS AT ROOT) | | ● | | ● | | FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES | | ● | | ● | | |
| * CLEANLINESS (CONDITION OF STEEL SURFACES) | | ● | | ● | INSPECTION TASKS AFTER BOLTING (TABLE N5.6-3) | CONTINUOUS | PERIODIC | CONTINUOUS | PERIODIC | | | |
| * TACKING (TACK WELD QUALITY AND LOCATION) | | ● | | ● | DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS | | ● | | ● | | | |
| CHECK WELDING EQUIPMENT | | ● | | ● | | | | | | | | |
| <i>THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.</i> | | | | | | | | | | | | |
| INSPECTION TASKS DURING WELDING (TABLE N5.4-2) | CONTINUOUS | PERIODIC | CONTINUOUS | PERIODIC | | | | | | | | |
| USE OF QUALIFIED WELDERS | | ● | | ● | | | | | | | | |
| CONTROL AND HANDLING OF WELDING CONSUMABLES | | ● | | ● | | | | | | | | |
| * PACKAGING | | ● | | ● | | | | | | | | |
| * EXPOSURE CONTROL | | ● | | ● | | | | | | | | |
| NO WELDING OVER CRACKED TACK WELDS | | ● | | ● | | | | | | | | |
| ENVIRONMENTAL CONDITIONS | | ● | | ● | | | | | | | | |
| * WIND SPEED WITHIN LIMITS | | ● | | ● | | | | | | | | |
| * PRECIPITATION AND TEMPERATURE | | ● | | ● | | | | | | | | |
| WPS FOLLOWED | | ● | | ● | | | | | | | | |
| * SETTINGS ON WELDING EQUIPMENT | | ● | | ● | | | | | | | | |
| * TRAVEL SPEED | | ● | | ● | | | | | | | | |
| * SELECTED WELDING MATERIALS | | ● | | ● | | | | | | | | |
| * SHIELDING GAS TYPE / FLOW RATE | | ● | | ● | | | | | | | | |
| * PREHEAT APPLIED | | ● | | ● | | | | | | | | |
| * INTERPASS TEMPERATURE MAINTAINED (MIN. / MAX) | | ● | | ● | | | | | | | | |
| * PROPER POSITION (F, V, H, OH) | | ● | | ● | | | | | | | | |
| WELDING TECHNIQUES | | ● | | ● | | | | | | | | |
| * INTERPASS AND FINAL CLEANING | | ● | | ● | | | | | | | | |
| * EACH PASS WITHIN PROFILE LIMITATIONS | | ● | | ● | | | | | | | | |
| * EACH PASS MEETS QUALITY REQUIREMENTS | | ● | | ● | | | | | | | | |
| INSPECTION TASKS AFTER WELDING (TABLE N5.4-3) | CONTINUOUS | PERIODIC | CONTINUOUS | PERIODIC | | | | | | | | |
| WELDS CLEANED | | ● | | ● | | | | | | | | |
| SIZE, LENGTH AND LOCATION OF WELDS | | ● | | ● | | | | | | | | |
| WELDS MEET VISUAL ACCEPTANCE CRITERIA | | ● | | ● | | | | | | | | |
| * CRACK PROHIBITION | | ● | | ● | | | | | | | | |
| * WELD / BASE-METAL FUSION | | ● | | ● | | | | | | | | |
| * CRATER CROSS SECTION | | ● | | ● | | | | | | | | |
| * WELD PROFILES | | ● | | ● | | | | | | | | |
| * WELD SIZE | | ● | | ● | | | | | | | | |
| * UNDERCUT | | ● | | ● | | | | | | | | |
| * POROSITY | | ● | | ● | | | | | | | | |
| ARC STRIKES | | ● | | ● | | | | | | | | |
| K-AREA ¹ | | ● | | ● | | | | | | | | |
| BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) | | ● | | ● | | | | | | | | |
| REPAIR ACTIVITIES | | ● | | ● | | | | | | | | |
| DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER | | ● | | ● | | | | | | | | |
| <i>WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75mm) OF THE WELD.</i> | | | | | | | | | | | | |

GENERAL STEEL SPECIAL INSPECTION NOTES :

- QUALITY ASSURANCE (QA) INSPECTION OF FABRICATED ITEMS SHALL BE MADE AT THE FABRICATOR'S PLANT. THE QUALITY ASSURANCE INSPECTOR (QAI) SHALL SCHEDULE THIS WORK TO MINIMIZE INTERRUPTION TO THE WORK OF THE FABRICATOR.
- QA INSPECTION OF THE ERECTED STEEL SYSTEM SHALL BE MADE AT THE PROJECT SITE. THE QAI SHALL SCHEDULE THIS WORK TO MINIMIZE INTERRUPTION TO THE WORK OF THE ERECTOR.
- WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH QC AND QA, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QC AND QA SO THAT THE INSPECTION FUNCTIONS ARE PERFORMED BY ONLY ONE PARTY. WHERE QA RELIES UPON INSPECTION FUNCTIONS PERFORMED BY QC, THE APPROVAL OF THE ENGINEER OF RECORD AND THE AUTHORITY HAVING JURISDICTION IS REQUIRED.
- THE FABRICATOR'S QCI SHALL INSPECT THE FABRICATED STEEL TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE SHOP DRAWINGS, SUCH AS PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION. THE ERECTOR'S QCI SHALL INSPECT THE ERECTED STEEL FRAME TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE ERECTION DRAWINGS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.
- THE QAI SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. AS A MINIMUM, THE DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE, SHALL BE VERIFIED PRIOR TO PLACEMENT OF THE CONCRETE.
- THE QAI SHALL INSPECT THE FABRICATED STEEL OR ERECTED STEEL FRAME, AS APPROPRIATE, TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.
- QUALITY ASSURANCE (QA) INSPECTIONS, EXCEPT NONDESTRUCTIVE TESTING (NDT), MAY BE WAIVED WHEN THE WORK IS PERFORMED IN A FABRICATING SHOP OR BY AN ERECTOR APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ) TO PERFORM THE WORK WITHOUT QA. NDT OF WELDS COMPLETED IN AN APPROVED FABRICATOR'S SHOP MAY BE PERFORMED BY THAT FABRICATOR WHEN APPROVED BY THE AHJ. WHEN THE FABRICATOR PERFORMS THE NDT, THE QA AGENCY SHALL REVIEW THE FABRICATOR'S NDT REPORTS.
- AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE FABRICATOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
- IDENTIFICATION AND REJECTION OF MATERIAL OR WORKMANSHIP THAT IS NOT IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS, SHALL BE PERMITTED AT ANY TIME DURING THE PROGRESS OF THE WORK. HOWEVER, THIS PROVISION SHALL NOT RELIEVE THE OWNER OR THE INSPECTOR OF THE OBLIGATION FOR TIMELY, IN-SEQUENCE INSPECTIONS. NONCONFORMING MATERIAL AND WORKMANSHIP SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE FABRICATOR OR ERECTOR, AS APPLICABLE.
- NONCONFORMING MATERIAL OR WORKMANSHIP SHALL BE BROUGHT INTO CONFORMANCE, OR MADE SUITABLE FOR ITS INTENDED PURPOSE AS DETERMINED BY THE ENGINEER OF RECORD.
- CONCURRENT WITH THE SUBMITTAL OF SUCH REPORTS TO THE AHJ, EOR OR OWNER, THE QA AGENCY SHALL SUBMIT TO THE FABRICATOR AND ERECTOR:
 - NONCONFORMANCE REPORTS
 - REPORTS OF REPAIR, REPLACEMENT OR ACCEPTANCE OF NONCONFORMING ITEMS.

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84101

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DATE: 06.11.19 PHASE 2
06.24.19 CHANGE ORDER #1
07.23.19 CHANGE ORDER #2
08.03.19 CHANGE ORDER #3

SHEET NO. S003

INCLUDED AS PART OF CHANGE ORDER #3



FOOTING & FOUNDATION NOTES:

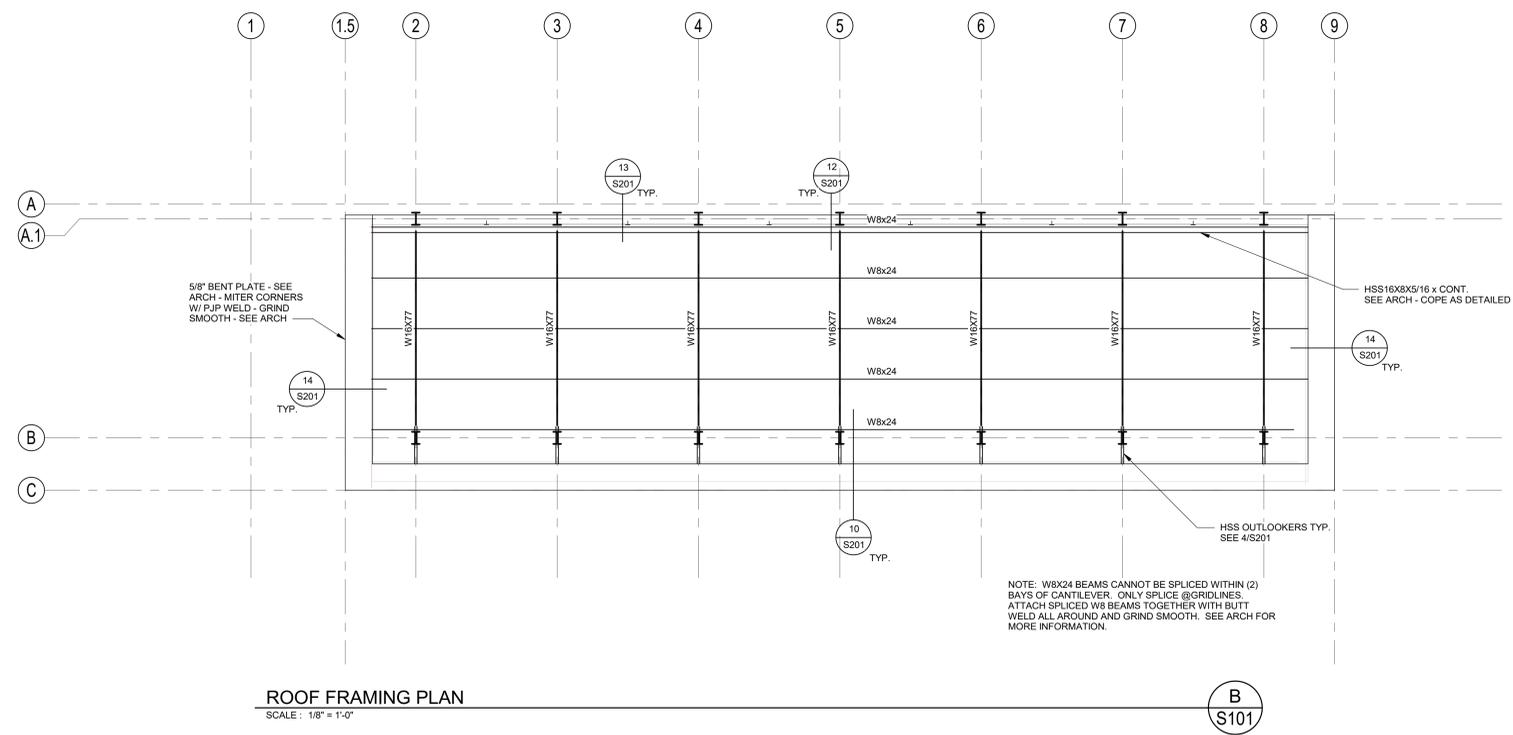
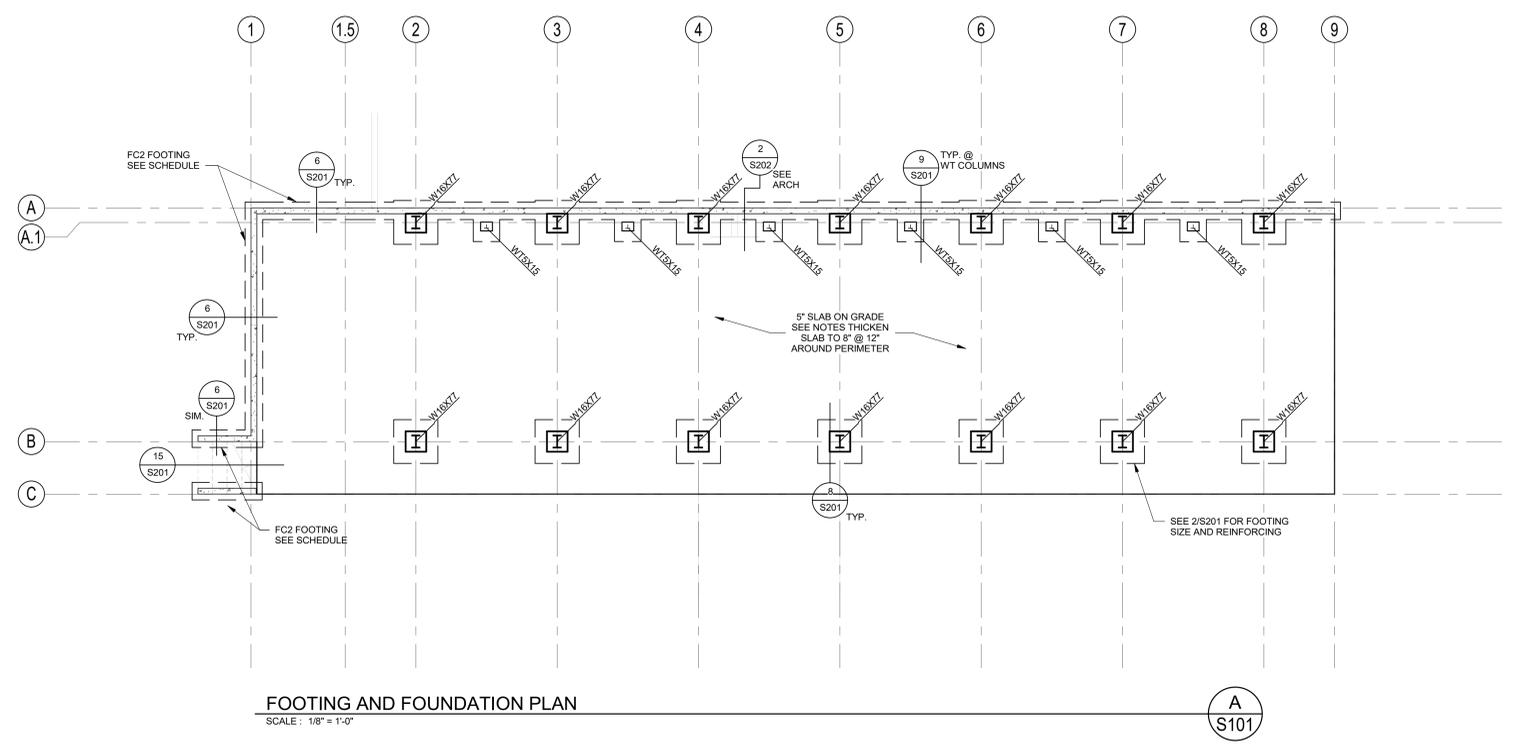
1. SEE SHEET S001 FOR GENERAL STRUCTURAL NOTES.
2. ALL FOOTINGS SHALL BE PLACED ON SOIL WHICH HAS BEEN PREPARED FOR THE BEARING PRESSURE SHOWN IN THE STRUCTURAL NOTES.
3. VERIFY ALL DIMENSIONS WITH DRAWINGS AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOUND.
4. SEE SHEET S002 FOR FOOTING SCHEDULE.
5. PROVIDE DOWELS IN FOOTINGS / FOUNDATIONS TO MATCH VERTICAL WALL REINFORCING U.N.O.
6. SEE SHEET S201 FOR TYPICAL FOOTING AND FOUNDATION DETAILS.
7. ALL EXTERIOR WALL FOOTINGS TO BEAR A MINIMUM DIMENSION BELOW EXTERIOR GRADE AS NOTED IN GENERAL STRUCTURAL NOTES.
8. FOUNDATION WALLS ARE DESIGNED AND DETAILED FOR THE COMPLETED CONDITION. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. BACKFILLED WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION AND BACKFILLING TO PRODUCE PLUMB AND TRUE FINISHED WALLS.
9. ALL ANCHORS, HOLD-DOWNS, ANCHOR BOLTS, DOWELS, EMBEDDED ITEMS, ETC. SHALL BE HELD IN PLACE PRIOR TO AND DURING CONCRETE AND/OR GROUT PLACEMENT.
10. COORDINATE ALL FOOTING DEPTHS (INTERIOR AND EXTERIOR) WITH DRAINS, CONDUITS, ETC. THAT MAY INTERFERE WITH FOOTINGS.
11. STEP CONTINUOUS FOOTINGS AND SPOT FOOTINGS AS REQ'D SO THAT BOTTOM OF FOOTING BEARS BETWEEN 4" AND 48" BELOW FINISH GRADE. SEE ARCHITECT FOR MORE INFORMATION.

CONCRETE SLAB NOTES:

1. SLAB ON GRADE SHALL BE 5" THICK CONCRETE U.N.O. REINFORCED WITH #4 BARS @ 18" o.c. EACH WAY. SLAB SHALL BE UNDERLAIN BY FREE DRAINING MATERIAL AS PRESCRIBED IN THE SOILS REPORT. AS REQUESTED BY THE OWNER - ADD HIGH VOLUME SYNTHETIC FIBER (GRADE STRUX 9040 OR APPROVED EQUAL) TO THE MIX DESIGN.
2. SEE SHEET S201 FOR CONTROL AND CONSTRUCTION JOINT INFORMATION.

ROOF FRAMING NOTES:

1. SEE SHEET S001 FOR GENERAL STRUCTURAL NOTES.
2. SEE ROOF DECK SCHEDULE FOR REQUIRED DECK AND ATTACHMENTS.
3. CONTRACTOR SHALL ERECT AND MAINTAIN ADEQUATE TEMPORARY BRACING UNTIL ALL ROOF FRAMING AND DECK ATTACHMENTS ARE COMPLETE.
4. CONCENTRATED LOADS FROM EQUIPMENT, PIPING, ETC., SHALL NOT BE HUNG EXCEPT AS APPROVED BY THE ENGINEER.



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DATE: 06.11.19 PHASE 2
 06.24.19 CHANGE
 07.25.19 CHANGE
 ORDER 3

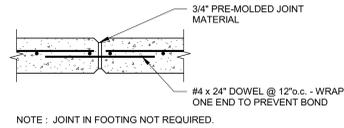
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FOOTING, FOUNDATION, AND ROOF FRAMING PLAN

INCLUDED AS PART OF CHANGE ORDER #3

SHEET NO. S101



NOTES:

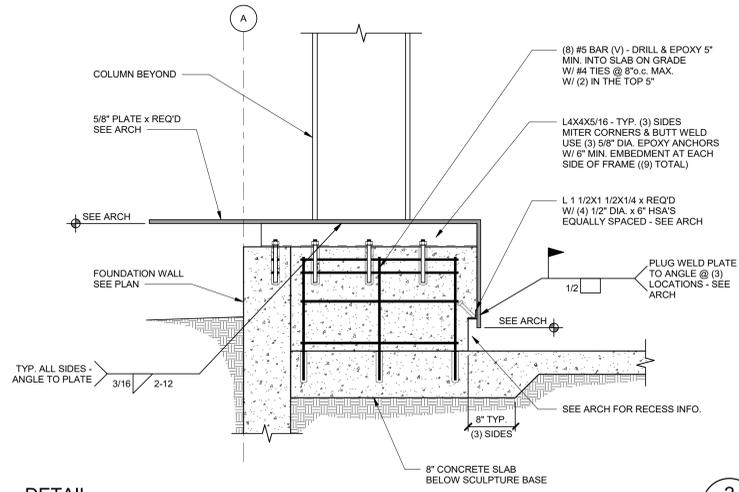
1. PROVIDE 3/4" DEEP VERTICAL CONTROL JOINT AT 15'-0" MAXIMUM SPACING. CONTINUE ALL HORIZONTAL REINFORCING THROUGH JOINT. PROVIDE MATCHING MASONRY WHERE OCCURS CONTROL JOINT.
2. PROVIDE EXPANSION JOINTS @ 48'-0" o.c. MAX. SPACING.

CONTROL JOINT INFORMATION DETAIL

SCALE: NONE

1

S202



DETAIL

SCALE: NONE

2

S202



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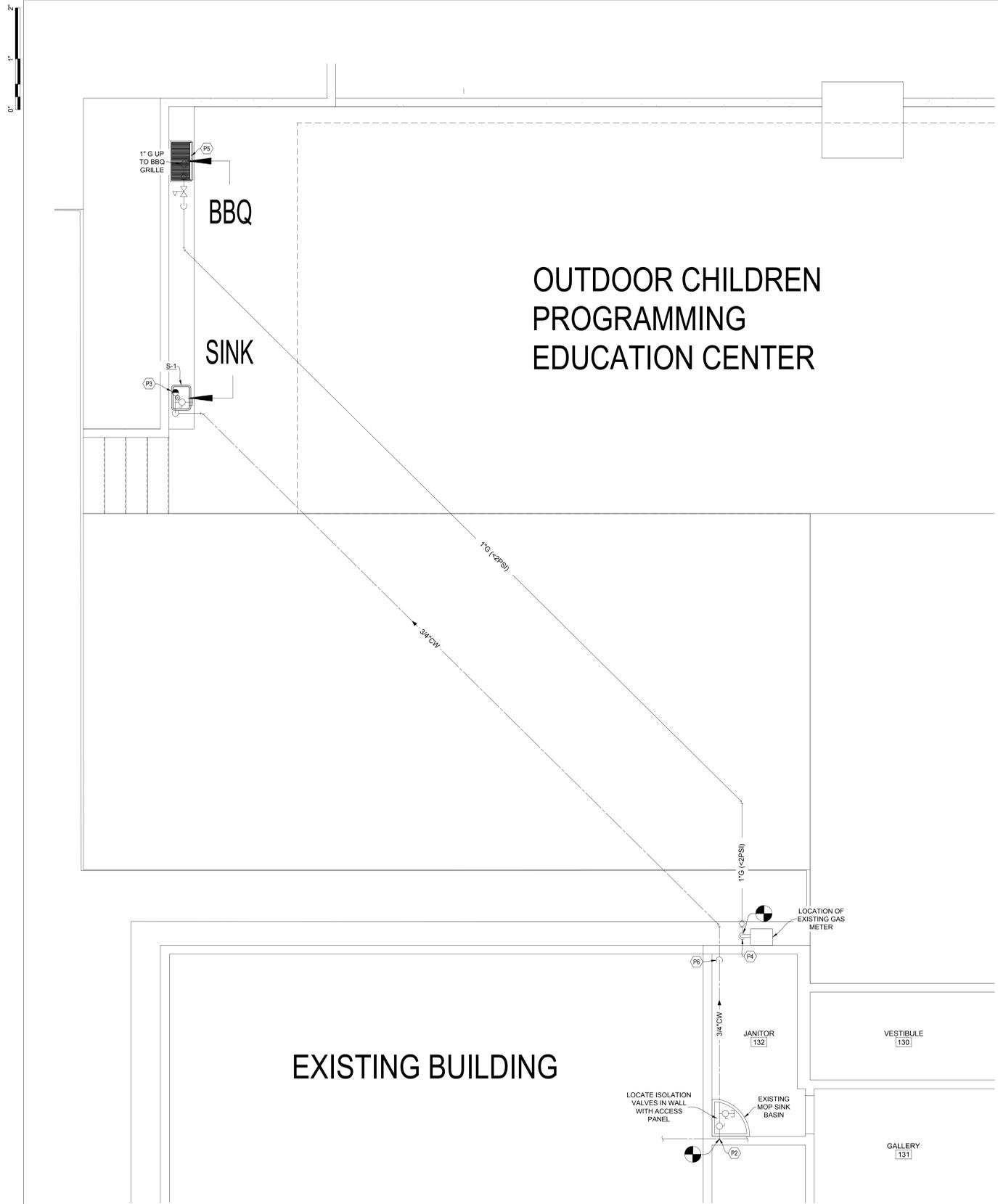
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 06.24.19 CHANGE ORDER 1
 07.25.19 CHANGE ORDER 3

SHEET NO.
S202

INCLUDED AS PART OF CHANGE ORDER #3

DETAILS



INCLUDED AS PART OF CHANGE ORDER #3

1 PLUMBING PLAN (AREA 1)

1/4" = 1'-0"

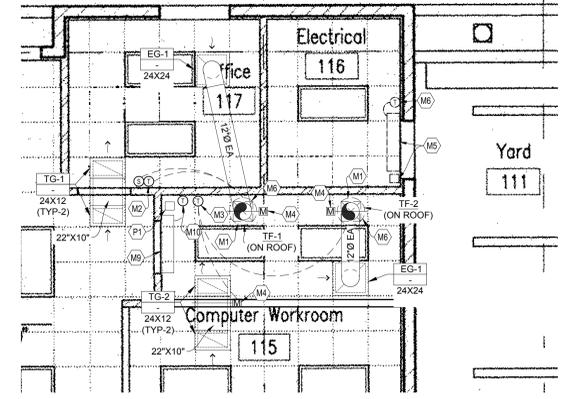
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MECHANICAL KEYED NOTES

- (M1) LOCATION FOR ROOFTOP DOWNBLAST TRANSFER FAN (TF). LOCATE TRANSFER FAN 10 FEET AWAY FROM BUILDING PERIMETER AND 3 FEET AWAY FROM ANY FRESH AIR INTAKES. PROVIDE FLEXIBLE CONNECTION AT TRANSFER FAN INLET FLANGES UPSTREAM OF MOTORIZED DAMPER.
- (M2) LOCATION FOR LINE VOLTAGE THERMOSTAT. SPACE TEMP SETPOINT FOR THERMOSTAT TO BE 74°F (ADJUSTABLE).
- (M3) LOCATION FOR LINE VOLTAGE THERMOSTAT. SPACE TEMP SETPOINT FOR THERMOSTAT TO BE 76°F ASSOCIATE WITH TRANSFER FAN (ADJUSTABLE).
- (M4) LOCATION FOR MOTORIZED DAMPER. INTERLOCK WITH THERMOSTAT AND TRANSFER FAN IN SPACE.
- (M5) EXISTING DUCTLESS SPLIT SYSTEM FAN COIL WITH CONDENSATE PUMP. REMOVE, STOCKPILE AND RELOCATE WITHIN NEW SERVER ROOM.
- (M6) REMOVE EXISTING THERMOSTAT CONTROLLER AND STOCKPILE FOR RELOCATION.
- (M7) REMOVE EXISTING THERMOSTAT AND STOCKPILE FOR RELOCATION.
- (M8) NEW LOCATION FOR EXISTING THERMOSTAT. PROVIDE ADDITIONAL CONTROL WIRING AS NECESSARY. COORDINATE EXACT THERMOSTAT LOCATION WITH OWNER / ARCHITECT.
- (M9) NEW LOCATION FOR INDOOR DUCTLESS INDOOR FAN COIL. PROVIDE ADDITIONAL REFRIGERANT LINE SET TUBING AS NECESSARY. INSULATE REFRIGERANT LENGTHS TO MATCH EXISTING CONDITIONS.
- (M10) PROGRAM RELOCATED THERMOSTAT TO ENERGIZE DUCTLESS SPLIT SYSTEM AT 72°F (ADJUSTABLE).

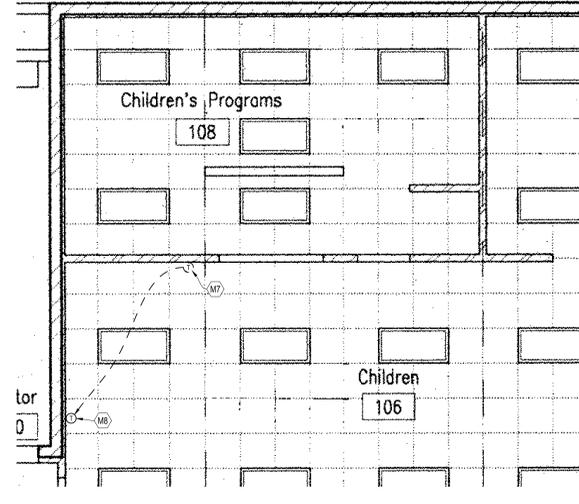
PLUMBING KEYED NOTES

- (P1) LOCATION FOR CONDENSATE PUMP ASSOCIATED WITH RELOCATED INDOOR FAN COIL. ROUTE DISCHARGE LINE TO PREVIOUS LOCATION. PROVIDE ADDITIONAL CONDENSATE TUBING AS NECESSARY.
- (P2) POINT-OF-CONNECTION FOR 3/4" DOMESTIC COLD WATER LINE SERVING OUTDOOR FAUCET. PROVIDE SEASONAL DRAIN DOWN KIT TO ALLOW FOR CONNECTION OF HOSE LENGTH AND QUICK CONNECTION AIR FITTING. PROVIDE ISOLATION VALVES WITH DRAIN LINE TO BE DIRECTED INTO EXISTING MOP SINK BASIN. PROVIDE ACCESS PANEL IN WALL TO CONCEAL ISOLATION VALVES AS REQUIRED. PLACE LABEL ON ACCESS PANEL "OUTDOOR SINK WINTERIZATION VALVES".
- (P3) LOCATION OF NEW OUTDOOR SINK AND FAUCET. PROVIDE ISOLATION VALVE AND ACCESS PANEL AS NECESSARY BELOW SINK TO ALLOW FOR WINTERIZATION. PROVIDE 2" WASTE LINE WITH BELOW COUNTER AIR ADMITTANCE VALVE. DIRECT WASTE LINE TO NEAREST APPROVED CIVIL POINT-OF-CONNECTION.
- (P4) POINT-OF-CONNECTION NEAR EXISTING GAS METER FOR 1" I.D. NATURAL GAS LINE SERVING OUTDOOR BBQ GRILLE. PROVIDE LOCKABLE ISOLATION VALVE AT POINT-OF-CONNECTION TO ALLOW FOR VANDAL PROOF SEASONAL OPERATION. NEW CONNECTION LOAD ASSOCIATED WITH BBQ GRILLE = 100,000 BTUH (@ 889 BTU/CF YIELDS ~13 CFH). TOTAL DEVELOPED LENGTH OF NEW GAS LINE = 100 FT. PER IFGC TABLE 402.4(2) A 1" GAS LINE IS REQUIRED WITH THE CAPACITY OF ALLOWING FOR 157 CFH OF CONNECTED GAS LOAD.
- (P5) LOCATION OF OUTDOOR BBQ GRILLE (100,000 BTUH). PROVIDE ISOLATION VALVE AND GAS PRESSURE REGULATOR PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- (P6) 3/4" CW DOWN THROUGH SLAB. COORDINATE EXACT LOCATION WITH EXISTING CONDITIONS. TRANSITION TO SUITABLE BELOW GRADE PIPING FROM THIS POINT TO OUTDOOR SINK. INSULATE PIPING PER SPECIFICATIONS.



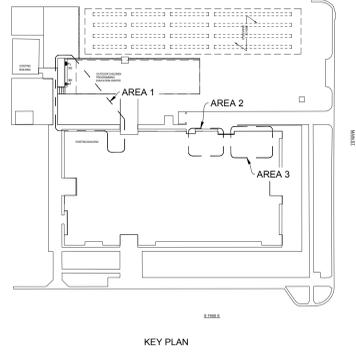
2 MECHANICAL & PLUMBING PLAN (AREA 2)

1/4" = 1'-0"



3 MECHANICAL PLAN (AREA 3)

1/4" = 1'-0"



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SALT LAKE CITY, UTAH 84101

171 WEST PIERPONT AVE.
WEBER COUNTY LIBRARY
OGDEN VALLEY BRANCH
131 SOUTH 7400 EAST
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PROJECT NO.: 17110

DATE: 06.11.19
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MP1.1

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06.13.2019

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PRESCOTT MUIR ARCHITECT
171 WEST PIERPONT AVENUE
SALT LAKE CITY, UT 84101
801.521.9111 FAX 801.521.9158

CIVIL ENGINEER
GREAT BASIN ENGINEERING
ATTN: MARK E. BARBITT
5746 SOUTH 1475 EAST
OGDEN, UTAH 84403
801.394.4515

LANDSCAPE ARCHITECT
ARCSITIO
ATTN: RICHARD GILBERT
1058 EAST 2100 SOUTH
SALT LAKE CITY, UT 84106
801.487.4923

STRUCTURAL ENGINEER
ARW ENGINEERS
ATTN: MCKAY PARRISH
1594 PARK CIRCLE
OGDEN, UT 84404
801.782.6008

MECHANICAL ENGINEER
SPECTRUM ENGINEERS
ATTN: BENJAMIN SCHLUP
324 SOUTH STATE STREET, SUITE 400
SALT LAKE CITY, UT 84111
801.328.5151

ELECTRICAL ENGINEER
SPECTRUM ENGINEERS
ATTN: TYLER SQUIRE
324 SOUTH STATE STREET, SUITE 400
SALT LAKE CITY, UT 84111
801.328.5151



VICINITY PLAN

NOT TO SCALE

SYMBOLS

| | | | |
|---------------|---|-----|---|
| 1 | INDICATES WALL TYPE | ◇ | WINDOW NUMBER |
| ① | DOOR NUMBER | ◊ | INDICATES GLASS TYPE |
| ⊕ | INDICATES ELEVATION NO. INDICATES PAGE NO. | —+— | DIMENSION TO FACE OF GYP. BD., CONC. OR MASONRY |
| ⊕ | INDICATES OBJECT INDICATES ELEVATION | — — | DIMENSION TO CENTER LINE |
| ① | INDICATES FINISHED FLOOR TYPE | ▨ | RIGID INSULATION |
| ⊕ | INDICATES GRID NUMBER | ▩ | BATT INSULATION |
| ① | KEYNOTE | ▨ | FINISHED WOOD |
| OFFICE XXX | INDICATES ROOM NAME INDICATES ROOM NUMBER | ▨ | BLOCKING |
| △ | REVISIONS | ▨ | CONTINUOUS WOOD |
| ⊕ | INDICATES SECTION NO. INDICATES PAGE NO. | ▨ | METAL OR METAL STUDS |
| ⊕ | INDICATES DETAIL NO. INDICATES PAGE NO. | ▨ | WOOD WALL |
| ▨ | GLAZED MASONRY WALL | ▨ | MASONRY WALL |

ABBREVIATIONS

| | | | |
|----------|--|--------|-------------------------------|
| A.B. | ANCHOR BOLT | HDR. | HEADER |
| A.C. | ASPHALTIC CONCRETE | INT. | INTERIOR |
| ADJ. | ADJUSTABLE | M.O. | MASONRY OPENING |
| B.O. | BOTTOM OF | M.R. | MOISTURE RESISTANT |
| C.B. | CATCH BASIN | N.I.C. | NOT IN CONTRACT |
| C.J. | CONTROL JOINT | OPP. | OPOSITE |
| CONC. | CONCRETE | P.C.J. | PLASTER CONSTRUCTION JOINT |
| CONT. | CONTINUOUS | R.D. | ROOF DRAIN |
| D.F. | DRINKING FOUNTAIN | SIM. | SIMILAR |
| DIF. | DIFFUSER | S.N.D. | SANITARY NAPKIN DISPOSAL |
| E.I.F.S. | EXTERIOR INSULATION AND FINISH SYSTEM | STL. | STEEL |
| E.J. | EXPANSION JOINT | S.S. | STAINLESS STEEL |
| EL. | ELEVATION | T.A. | TOP OF ASPHALT |
| EQ. | EQUAL | T.G. | TOP OF GRATE |
| EXIST. | EXISTING | T.W. | TOP OF WALK |
| EXT. | EXTERIOR | T.O.C. | TOP OF CONCRETE |
| F.D. | FLOOR DRAIN | T.O.M. | TOP OF MASONRY |
| F.F. | FINISH FLOOR | T.O.S. | TOP OF STEEL |
| F.O. | FACE OF | T.O.W. | TOP OF WALL |
| F.O.M. | FACE OF MASONRY | TYP. | TYPICAL |
| F.S.R. | FLEXIBLE SHEET ROOFING | VIF. | VERIFY IN FIELD |
| F.T. | FIRE TREATED | U.N.O. | UNLESS OTHERWISE NOTED |
| GYP.BD. | GYP. BOARD | W/ | WITH |

INDEX OF DRAWINGS

| NO. | SHEET TITLE |
|--|---------------------------|
| PHASE 2: BID PACKAGE #2 | |
| CIVIL | |
| C1 | DEMOLITION PLAN |
| C2 | SITE AND GRADING PLAN |
| C3 | UTILITY PLAN |
| C4 | DETAIL SHEET |
| ELECTRICAL | |
| EED1 SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES | |
| EED2 FIRST LEVEL POWER PLAN | |
| EP12 | PAVILION POWER PLAN |
| EL11 | FIRST LEVEL LIGHTING PLAN |
| EL12 | PAVILION LIGHTING PLAN |

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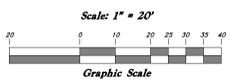
DRAWN BY: MH

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06.24.19
07.25.19

REVISIONS:
△ CHANGE
△ CHANGE
△ CHANGE

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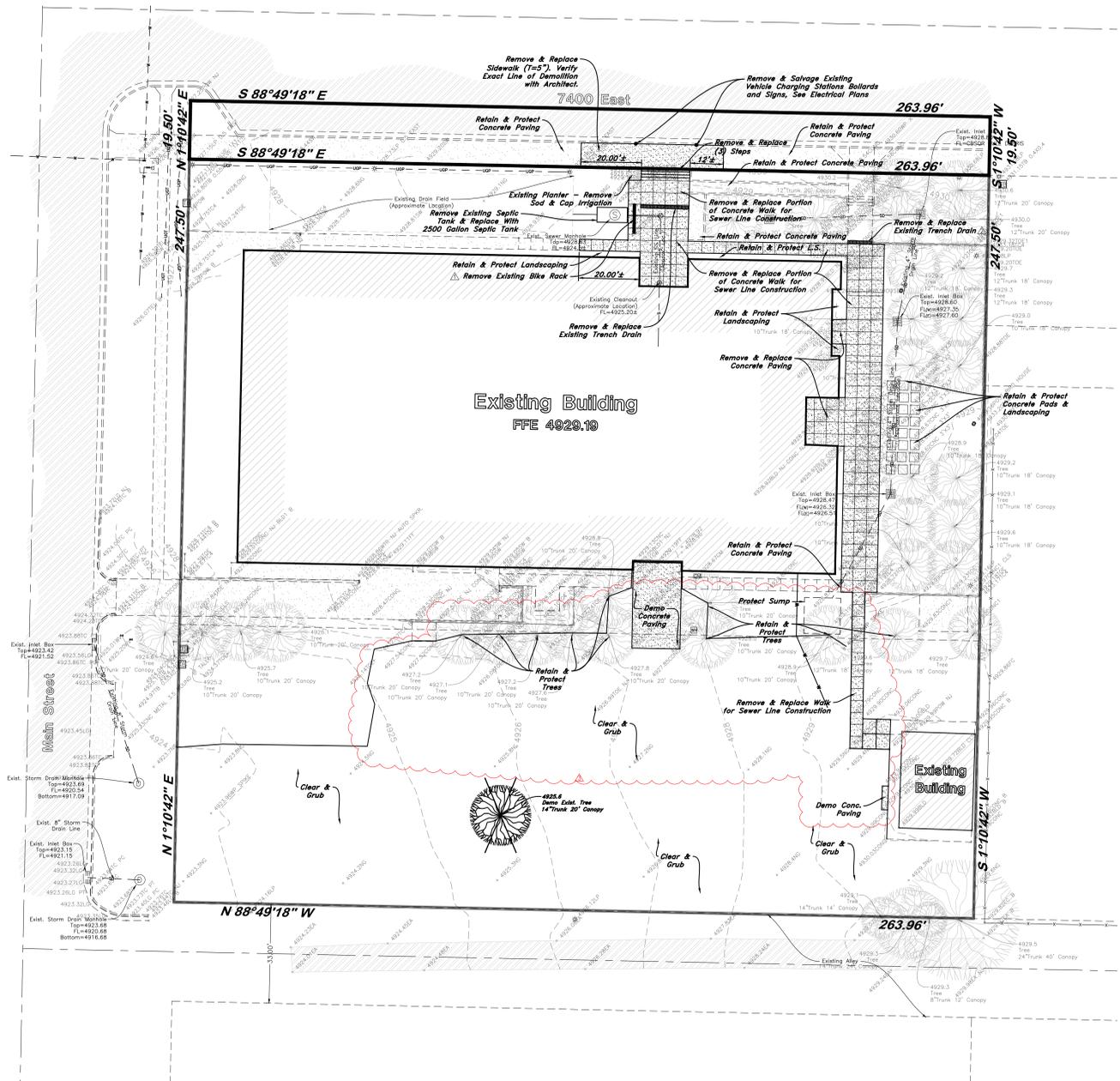
SHEET NO. 11



Legend

(Note: All items may not appear on drawings)

| | |
|----------------------------|---|
| San. Sewer Manhole | ⊙ |
| Water Manhole | ⊙ |
| Storm Drain Manhole | ⊙ |
| Cleanout | ⊙ |
| Electrical Manhole | ⊙ |
| Catch Basin | ⊙ |
| Exist. Fire Hydrant | ⊙ |
| Fire Department Connection | ⊙ |
| Post Indicator Valve | ⊙ |
| Exist. Water Valve | ⊙ |
| Sanitary Sewer | — |
| Culinary Water | — |
| Gas Line | — |
| Irrigation Line | — |
| Storm Drain | — |
| Telephone Line | — |
| Secondary Waterline | — |
| Power Line | — |
| Fire Line | — |
| Land Drain | — |
| Power pole w/guy | — |
| Light Pole | — |
| Fence | — |
| Flowline of ditch | — |
| Overhead Power line | — |
| Corrugated Metal Pipe | — |
| Reinforced Concrete Pipe | — |
| Cast Iron | — |
| Polyvinyl Chloride | — |
| Top of Asphalt | — |
| Edge of Asphalt | — |
| Centerline | — |
| Flowline | — |
| Finish Floor | — |
| Top of Curb | — |
| Top of Wall | — |
| Top of Walk | — |
| Top of Concrete | — |
| Natural Ground | — |
| Finish Grade | — |
| Match Existing | — |
| Fire Department Connection | — |
| Finish Grade | — |
| Exist. Contour | — |
| Finish Grade | — |
| Exist. Grade | — |
| Ridge Line | — |
| Direction of Flow | — |
| Existing Asphalt | ▨ |
| New Asphalt | ▨ |
| Heavy Duty Asphalt | ▨ |
| Existing Concrete | ▨ |
| New Concrete | ▨ |
| Demo'd Road Base | ▨ |
| Spill Curb & Gutter | ▨ |
| Demo Tree | ⊗ |
| Tree To Remain in Place | ⊗ |



Note:
Survey existing conditions for concrete paving (include configuration, patterns, joint locations, etc.) and provide surveyed conditions to owner and architect prior to beginning demolition.

- GENERAL DEMOLITION NOTES:**
- Demolition and site clearing for this contract are to include all areas shown within demolition limits or by note.
 - Refer to site improvement plans for more details on limits of removal.
 - All curbs, gutters, walks, slabs, walls, fences, flatwork, asphalt, waterlines and meters, gas lines, sewer lines, light poles, buried cables, storm drain piping and structures to be cleared from site unless otherwise shown.
 - All utilities, sewer, water, gas, telephone and electrical services to be disconnected and capped according to city, county and utility company requirements, unless otherwise shown.
 - Excavations and other excavated areas to be backfilled with clean granular material compacted to 95% of maximum lab density as determined by ASTM D 1557-78. (Test results to be given to owner)
 - Clear and grub trees, shrubs, and vegetation within construction limits, disposal to be off-site except where noted otherwise.
 - DO NOT interrupt any services or disrupt the operation of any businesses shown outside the demolition limits.
 - If ASBESTOS is found in existing structures, the Asbestos must be removed in a legal manner by a contractor licensed to handle asbestos materials. (Not a part of contract)
 - Remove debris, rubbish, and other materials resulting from the demolition and site clearing operations from the site and dispose of in a legal manner.
 - The location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied upon as being exact or complete. Contractor shall contact authorities having jurisdiction for field locations. Contractor shall be responsible for protection of in place and relocated utilities during construction.
 - Stockpiles shall be graded to maintain slopes not greater than 3 horizontal to 1 vertical. Provide erosion control as needed to prevent sediment transport to adjacent drainage ways.
 - Contractor shall be responsible for disposal of all waste material. Disposal shall be on an approved site for such material. Burning onsite is not permitted.
 - Contractor shall verify with city any street removal, curb cuts, and any restoration required for utility line removal.
 - Install traffic warning devices as needed in accordance with local standards.
 - Contractor shall obtain all permits necessary for demolition from City, County, State or Federal Agencies as required.

CAUTION NOTICE TO CONTRACTOR
The contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans are based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must call the appropriate utility company at least 48 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to relocate all existing utilities which conflict with the proposed improvements shown on the plans.

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

ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY

INCLUDED AS PART OF CHANGE ORDER #3

171 WEST PIERPONT AVE. • SALT LAKE CITY, UTAH 84101
 PRESCOTT AMUIR ARCHITECT
 DRAWN BY: MAH
 DATE: 12/07/18
 01.25.19 ADDENDUM 1
 06.13.19 PHASE 2
 06.24.19 CHANGE ORDER #1
 07.25.19 CHANGE ORDER #2
 08.01.19 CHANGE ORDER #3

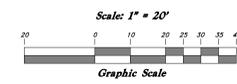
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DEMOLITION PLAN

TEL: 801.521.9111 FAX: 801.521.9158

PROJECT NO: 12092

C1



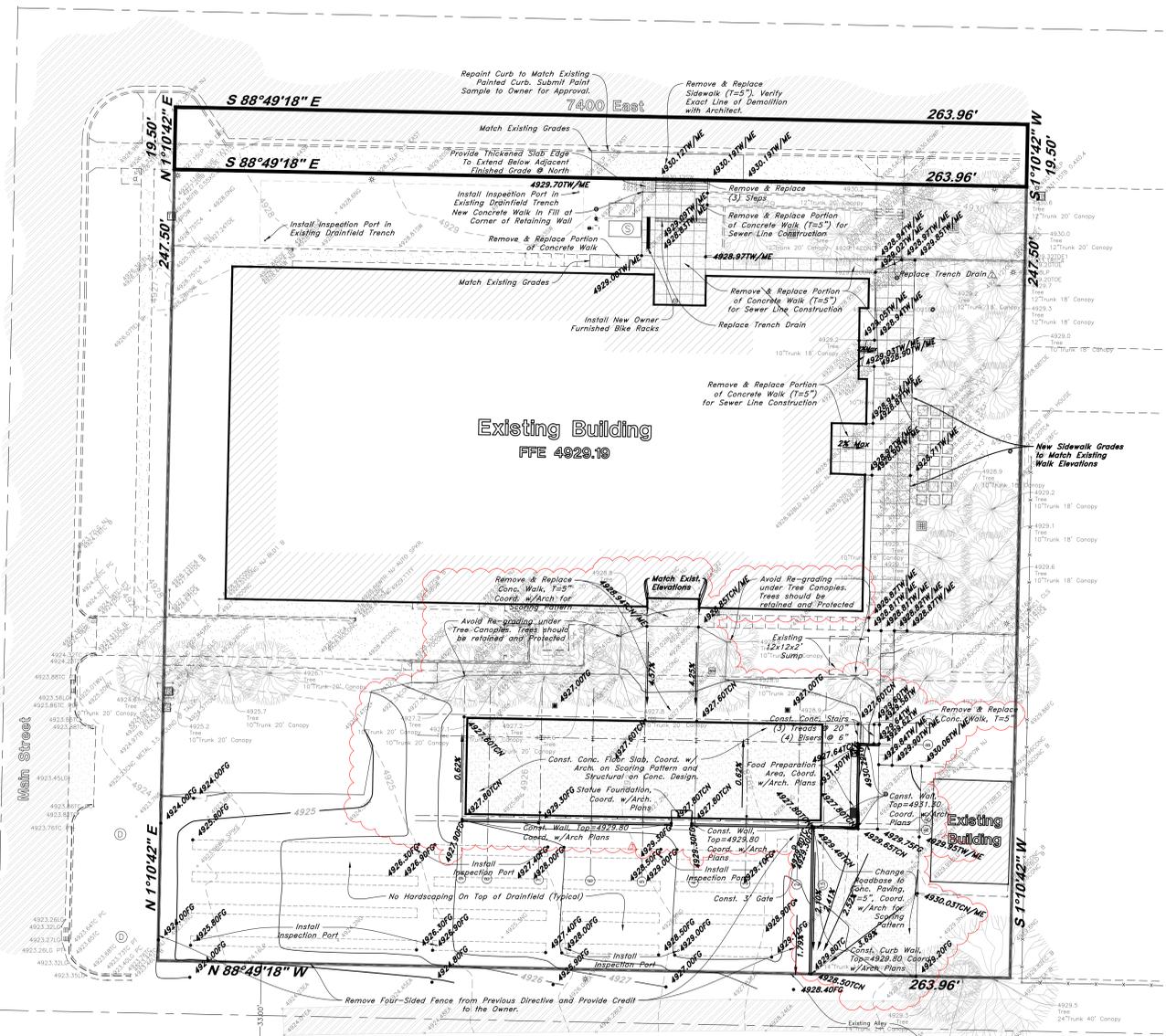
Legend

(Note: All items may not appear on drawings)

| | |
|----------------------------|--------|
| San. Sewer Manhole | Symbol |
| Water Manhole | Symbol |
| Storm Drain Manhole | Symbol |
| Cleanout | Symbol |
| Electrical Manhole | Symbol |
| Catch Basin | Symbol |
| Exist. Fire Hydrant | Symbol |
| Fire Department Connection | Symbol |
| Post Indicator Valve | Symbol |
| Water Valve | Symbol |
| Culinary Sewer | Symbol |
| Gas Line | Symbol |
| Irrigation Line | Symbol |
| Telephone Line | Symbol |
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| Power Line | Symbol |
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| Overhead Power line | Symbol |
| Corrugated Metal Pipe | Symbol |
| Concrete Pipe | Symbol |
| Reinforced Concrete Pipe | Symbol |
| Ductile Iron | Symbol |
| Polyvinyl Chloride | Symbol |
| Edge of Asphalt | Symbol |
| Centerline | Symbol |
| Flowline | Symbol |
| Finish Floor | Symbol |
| Top of Curb | Symbol |
| Top of Wall | Symbol |
| Top of Walk | Symbol |
| Top of Concrete | Symbol |
| Natural Ground | Symbol |
| Finish Grade | Symbol |
| Match Existing | Symbol |
| Fire Department Connection | Symbol |
| Exist. Contour | Symbol |
| Finish Grade | Symbol |
| Exist. Grade | Symbol |
| Ridge Line | Symbol |
| Direction of Flow | Symbol |

| | |
|-------------------------|---------|
| Existing Asphalt | Pattern |
| New Asphalt | Pattern |
| Heavy Duty Asphalt | Pattern |
| Existing Concrete | Pattern |
| New Concrete | Pattern |
| Demo'd Road Base | Pattern |
| Spill Curb & Gutter | Pattern |
| Demo Tree | Symbol |
| Tree to Remain in Place | Symbol |

Note:
Survey existing conditions for concrete paving (include configuration, patterns, joint locations, etc.) and provide surveyed conditions to owner and architect prior to beginning demolition.



- GENERAL GRADING NOTES:**
- All work shall be in accordance with the City Public Works Standard.
 - Cut slopes shall be no steeper than 2 horizontal to 1 vertical.
 - Fill slopes shall be no steeper than 2 horizontal to 1 vertical.
 - Fill shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by the geotechnical engineer.
 - Areas to receive fill shall be properly prepared and approved by the City Inspector and geotechnical Engineer prior to placing fill.
 - Fill shall be benched into competent material as per specifications and geotechnical report.
 - All trench backfill shall be tested and certified by the site geotechnical engineer per the grading code.
 - A geotechnical engineer shall perform periodic inspections and submit a complete report and map upon completion of the rough grading.
 - The final composition report and submittal from the geotechnical engineer shall contain the type of field testing performed. Each test shall be identified with the method of obtaining the in-place density, whether sand cone or drive ring and shall be so noted for each test. Sufficient maximum density determinations shall be performed to verify the accuracy of the maximum density curves used by the field technician.
 - Dust shall be controlled by watering.
 - The location and protection of all utilities is the responsibility of the permittee.
 - Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading project.
 - All public roadways must be cleared daily of all dirt, mud and debris deposited on them as a result of the grading operation. Cleaning is to be done to the satisfaction of the city engineer.
 - The site shall be cleared and grubbed of all vegetation and deleterious matter prior to grading.
 - The contractor shall provide shoring in accordance with OSHA requirements for trench walls.
 - Aggregate base shall be compacted per the geotechnical report prepared for the project.
 - Elevations shown on this plan are finish grades. Rough grades are the subgrades of the improvements shown hereon.
 - The recommendations in the following Geotechnical Engineering Report by AGEC Geotech are included in the requirements of grading and site preparation. The report is titled "PROPOSED PARKING IMPROVEMENTS OGDEN VALLEY BRANCH LIBRARY".

Job No.: 1120969 Address: 131 South 7400 East Huntsville, Utah
 Dated: August 7, 2013
 19. As part of the construction documents, owner has provided contractor with a topographic survey performed by manual or aerial means. Such survey was prepared for project design purposes and is provided to the contractor as a courtesy. It is expressly understood that such survey may not accurately reflect existing topographic conditions.
 20. Erosion Control: Protect all inlet boxes, catch basins, etc. with straw bales or other approved method to strain the storm water during construction. Protect surrounding properties and streets from site runoff with sandbags and earth berms.

- CURB AND GUTTER CONSTRUCTION NOTES:**
- Open face gutter shall be constructed where drainage is directed away from curb.
 - Open face gutter locations are indicated by shading and notes on site and grading plan.
 - It is the responsibility of the surveyor to adjust top of curb grades at the time construction staking.
 - Refer to the typical details for a standard and open face curb and gutter for dimensions.
 - Transitions between open face and standard curb and gutter are to be smooth. Hand form these areas if necessary.

ADA NOTES:
 Contractor must maintain a running slope on Accessible routes no steeper than 5.0% (1:20). The cross slope for Accessible routes must be no steeper than 2.0% (1:50). All Accessible routes must have a minimum clear width of 36". If grades on plans do not meet this requirement notify Consultants immediately.
 The Client, Contractor, and Subcontractor should immediately notify the Consultant of any conditions of the project that they believe do not comply with the current state of the ADA and/or FHWA.

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

- GENERAL SITE NOTES:**
- Stalls designated as handicap will require a pointed handicap symbol and sign. (See details)
 - Fire line markings and signs to be installed as directed by the Fire Marshall.
 - Aisle markings, directional arrows and stop bars will be painted at each driveway as shown on the plans.
 - Building sidewalks, ramps, and bollards are building contractor responsible items. See architectural plans.
 - All dimensions are to back of curb unless otherwise noted.

PRIVATE ENGINEER'S NOTICE TO CONTRACTORS
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ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY

ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY

INCLUDED AS PART OF CHANGE ORDER #3

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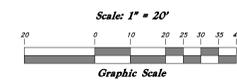
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 HUNTSVILLE, UTAH

DRAWN BY: MHA
 PROJECT NO.: 12092

DATE: 12/07/18
 01/25/19 ADDENDUM 1
 06/13/19 PHASE 2
 06/24/19 CHANGE
 07/25/19 CHANGE
 08/08/19 CHANGE 3

SHEET NO.: C2

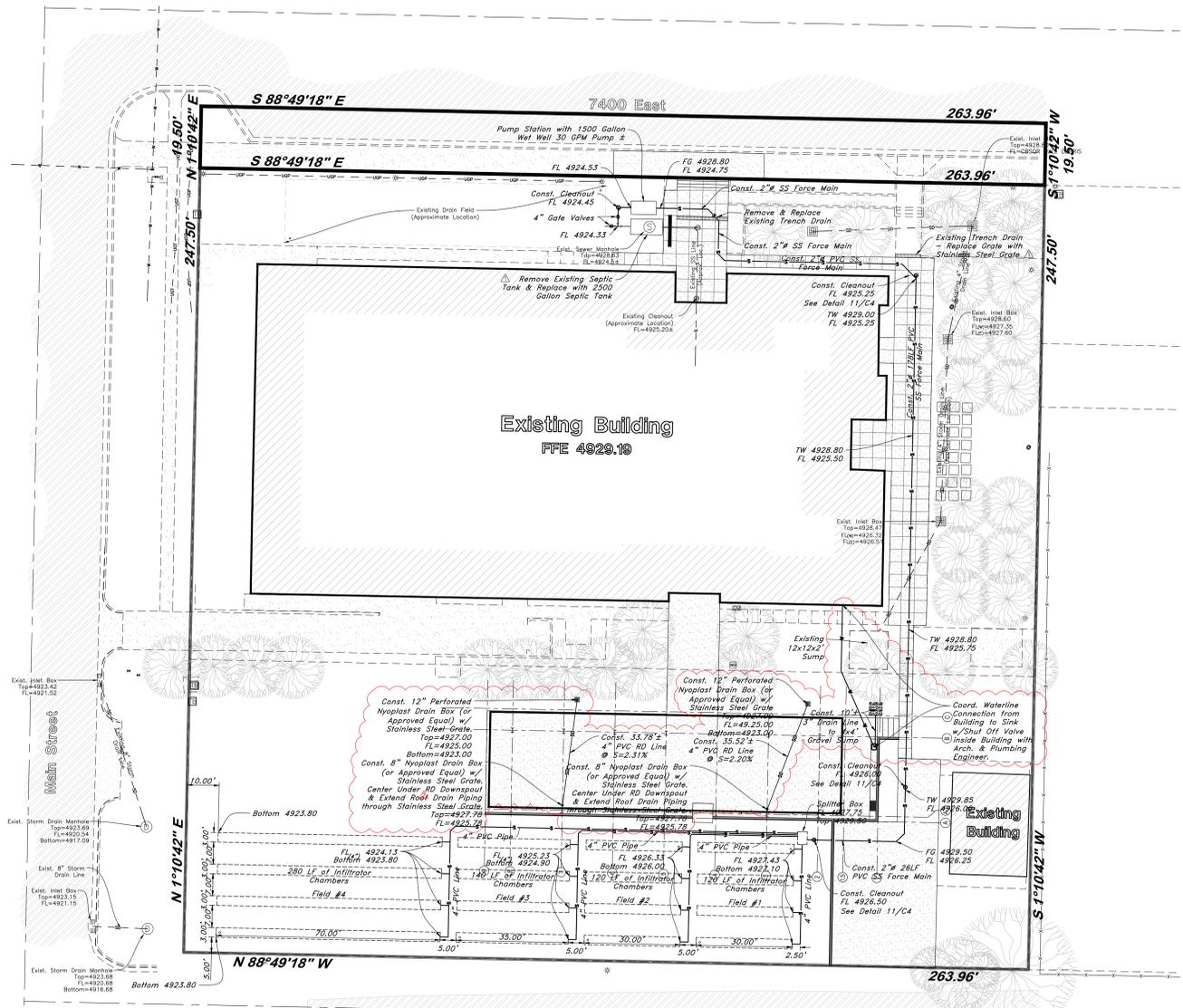
PRECOTT MUIR ARCHITECT



Legend

(Note: All items may not appear on drawings)

- San. Sewer Manhole
- Water Manhole
- Storm Drain Manhole
- Cleanout
- Electrical Manhole
- Catch Basin
- Exist. Fire Hydrant
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- Direction of Flow
- Existing Asphalt
- New Asphalt
- Heavy Duty Asphalt
- Existing Concrete
- New Concrete
- Demo'd Road Base
- Spill Curb & Gutter
- Demo Tree
- Tree To Remain in Place



Note:
Pump station and control panel to be connected to auxiliary power.

- Trench**
- Max Depth = 12" Deep
 - 0.45 Gal/SF Application Rate per Weber Morgan Health Department
- 30% Reduction for Chambers**
- 660 LF of 3' Wide Trench = 1980 SF Available
 - 30% Reduction → Absorption Area Equivalent = 2828 SF
 - 2828 SF x 0.45 Gal/SF = 1272 Gal/Day
- Septic Tank**
- 1.5 x 1272 = 1908 Gal
 - Use 2000 Gallon Tank (Liquid Capacity)
- Daily Fee Est.**
- 15gpd/Employee
 - 5gpd/Person - Auditorium/Church
 - 8 Employees @ 15gpd & 230 Patrons @ 5gpd → 1272gpd
- Need Pump Station with Dosing 4 Times Per Day**
- 1272/4 = 318 Gal/Dose
 - Wet Well size 2xDose = 636 Gal minimum size
 - 2" Force Main → 292 LF
 - Effluent in force main = 47.65 gallon
 - Total Dosing Rate = 47.65 + 318.0 = 365.65 gallon
- Pump Sizing**
- Pumping time 10 to 15 minutes
 - Pumping rate 366/15 to 366/10 = 24.4 to 36.6 gpm
 - Use pump rate of 30gpm ± (12.20 min/dose)

- GENERAL UTILITY NOTES:**
- Coordinate all utility connections to building with plumbing plans and building contractor. Verify depth and location of all existing utilities prior to constructing any new utility lines. Notify Civil Engineer of any discrepancies or conflicts prior to any connections being made.
 - All catch basin and inlet box grates are to be bicycle proof.
 - All inlet boxes located in curb and gutter are to be placed parallel to the curb and gutter and set under the frame and grate. Improperly placed boxes will be removed and replaced at no additional cost to the owner. Precast or cast in place boxes are acceptable.
 - Refer to the site electrical plan for details and locations of electrical lines, transformers and light poles.
 - Gas lines, telephone lines, and cable TV lines are not a part of these plans unless otherwise noted.
 - Water meters are to be installed per city standards and specifications. It will be the contractor's responsibility to install all items required.
 - Water lines, valves, fire hydrants, fittings etc. are to be constructed as shown. Contractor is responsible to construct any vertical adjustments necessary to clear sewer, storm drain or other utilities as necessary including valve boxes and hydrant spouts to proper grade.
 - Field verify all existing and/or proposed roof drain/roof drain down spout connections to Storm Water System with Civil, Plumbing & Architectural plans. Notify Engineer of any discrepancies.
 - All gravity flow utility lines shall be installed prior to any pressurized utilities unless written permission is obtained from the engineer of record before construction begins.
- UTILITY PIPING MATERIALS:**
- All piping to be installed per manufacturers recommendations. Refer to project specifications for more detailed information regarding materials, installation, etc.
- CULINARY SERVICE LATERALS**
- 3/4" to 2" diameter pipe - copper tube ASTM B, Type K, Soft Temper
 - Over 2" diameter pipe - AWWA C-900 Class 150 pipe
- WATER MAIN LINES AND FIRE LINES**
- Pipe material as shown on utility plan view or to meet city standards.
- SANITARY SEWER LINES**
- All sewer piping to be Polyvinyl Chloride (PVC) sewer pipe, ASTM D 3034, Type PSM, SDR 35
- STORM DRAIN LINES**
- 12" pipes or smaller - Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35
 - 12" or larger - Reinforced Concrete Pipe, ASTM C76, Class III up to 13' of cover, Class IV for 13' to 21' of cover, Class V for 21' to 32' of cover, and Special Design for cover greater than 32 feet.
- NATURAL GAS SERVICE LATERALS (QUESTAR)**
- PLASTIC PIPING MATERIAL: Plastic polyethylene pipe materials and compression couplings must be approved for natural gas applications and must be installed underground. All plastic pipe and fittings must conform to ASTM D2513 (60 psi and above high density pipe approved 3408).
 - Plastic pipe must be joined by individuals qualified in the heat fusion method of connecting pipe and fittings or approved mechanical fittings. A minimum number 18 insulated yellow copper tracer wire shall be installed with underground nonmetallic gas piping and shall terminate above grade at each end. Tracer wire shall not come in contact with plastic piping.
 - Risers and prefabricated risers inserted with plastic pipe shall conform to ASTM D2513, shall be metallic, have a space of 10 inches from the bottom of the service valve and grade, and shall be wrapped or coated to a point at least 8 inches above grade or protected in an approved manner. When a riser connects underground to plastic pipe, the underground horizontal metallic portion of the riser shall extend at least 12 inches before connecting to the plastic pipe by means of an approved transition fitting, adapter or heat fusion.
 - Plastic pipe used underground for customer fuel lines must be approved polyethylene material and be buried a minimum of 12 inches. It shall not be used inside buildings or above ground. PVC (Polyvinyl Chloride) is not approved for piping systems in Questar Gas's service area. Individual gas lines (metallic or plastic) to single outside appliance (outside lights, grilles, etc.) shall be installed a minimum of 8 inches below grade, provided such installation is approved and installed in locations not susceptible to physical damage.

CAUTION NOTICE TO CONTRACTOR

The contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans are based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must call the appropriate utility company at least 48 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to relocate all existing utilities which conflict with the proposed improvements shown on the plans.

PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

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

ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY

171 WEST PIERPONT AVE. • SALT LAKE CITY, UTAH 84101

PRESCOTT MUIR ARCHITECT

OGDEN VALLEY BRANCH LIBRARY SITE AND UTILITY IMPROVEMENTS

131 SOUTH 7400 EAST HUNTSVILLE, UTAH

TEL: 801.521.9111 FAX: 801.521.9158

DATE: 12/07/18

01/25/19 ADDENDUM 1

06/13/19 PHASE 2

06/24/19 CHANGE ORDER #1

07/25/19 CHANGE ORDER #2

08/23/19

PROJECT NO: 17092

DRAWN BY: MM

DATE: 01/25/19

06/13/19

06/24/19

07/25/19

08/23/19

INCLUDED AS PART OF CHANGE ORDER #3



171 WEST PIERPONT AVE. • SALT LAKE CITY, UTAH 84101
OGDEN VALLEY BRANCH LIBRARY
SITE AND UTILITY IMPROVEMENTS
131 SOUTH 7400 EAST
HUNTSVILLE, UTAH

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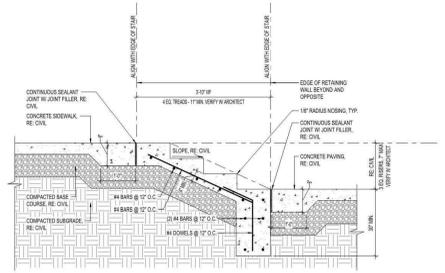
DETAIL SHEET

84101

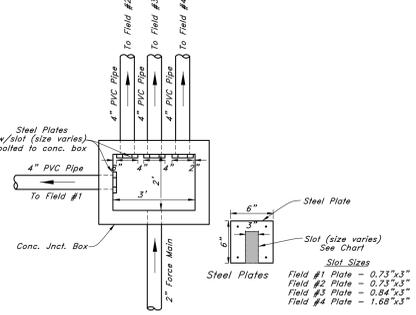
PRESCOTT AMUIR ARCHITECT

DATE: 12/07/18
01/25/19 ADDENDUM 1
06/13/19 PHASE 2
06/24/19 CHG#2
07/25/19 CHG#3

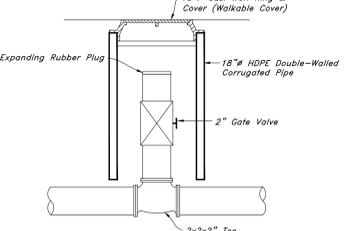
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DRAWN BY: MA
SHEET NO: C4



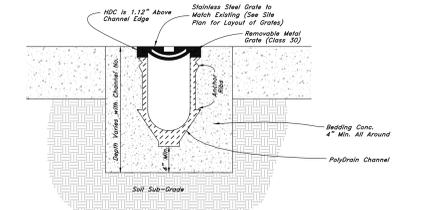
9 Concrete Stair Detail
Not to Scale



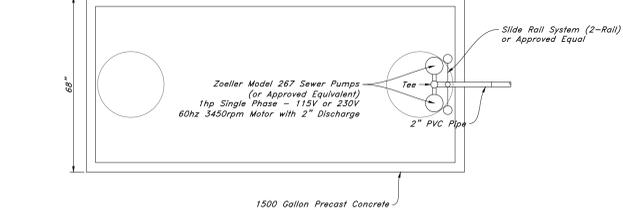
10 SPLITTER BOX DETAIL
Not to Scale



11 Force Main Sewer Cleanout Detail
NOT TO SCALE



8 Trench Drain Detail
Not to Scale



6 Precast Concrete Duplex Pump Station Detail - 1500 Septic Tank (Wet Well)
Not to Scale

Note:
Pump station and control panel to be connected to auxiliary power.

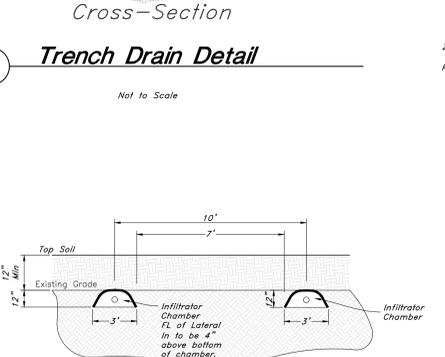
1500 Gallon Septic Tank/Pump Chamber:
 Dead Space = 6" = 208.4 Gallons
 Dosing Volume = 9.2" = 318.35 Gallons
 Pipe Volume = 1.3" = 47.65 Gallons
 Dosing + Pipe Vol. = 10.5" = 366.0 Gallons
 Surge Volume = 9.2" = 318 Gallons
 Emergency Storage = 14.3" = 497 Gallons
 1389.3 Gallons (at 6" from top)

Inside Dimensions: 118"x68"x46" = 1597.7 Tank Capacity

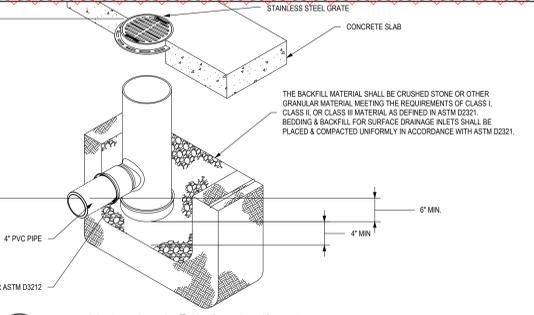
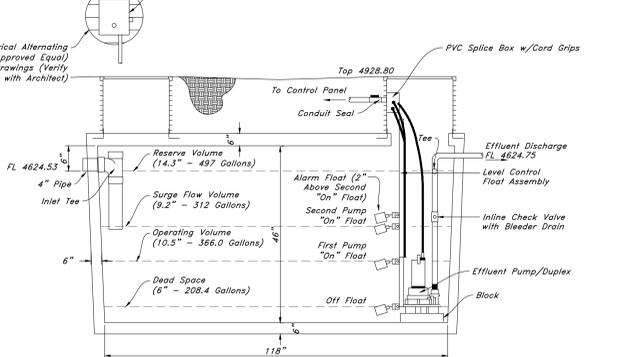
Pump Sizing
 Minimum Requirements
 30.0 gpm @ 17.0 TDH
 Single Phase Pumps

Duplex Pumping System
 30 gpm

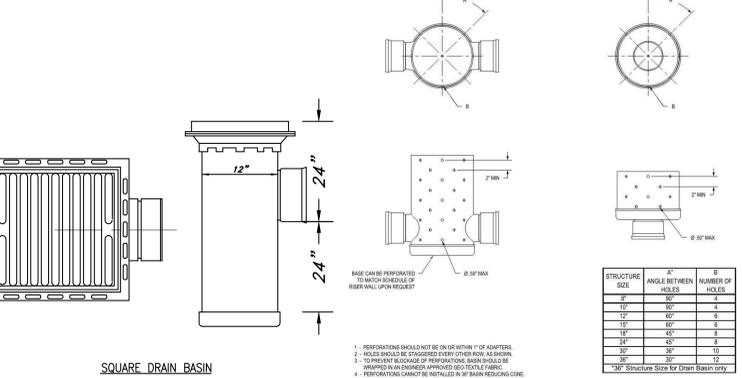
Head Loss:
 -3.30 Elevation
 +2.83 Lift From Bottom Pump
 +8.76 Head Loss (30ft/1000ft = 2" Pipe @ 30gpm)
 +2.00 (Elbows & Rends)
 16.89 TDH



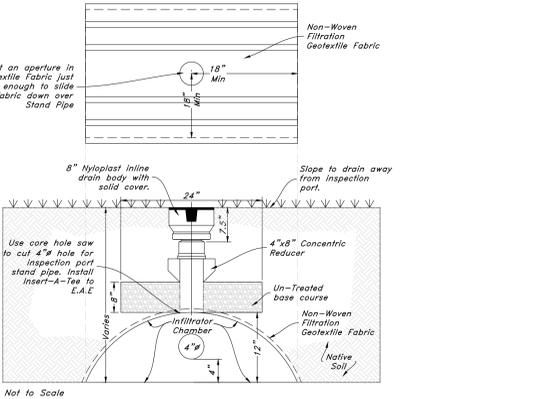
5 Infiltrator Chambers Detail (Typ.)
Not to Scale



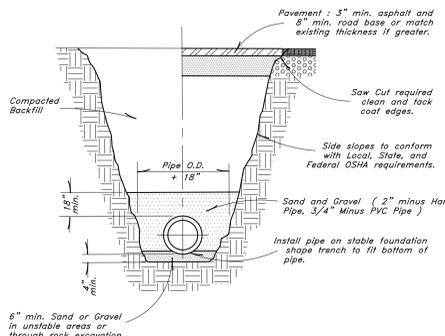
13 Nyloplast 8" Drain Basin
Not to Scale



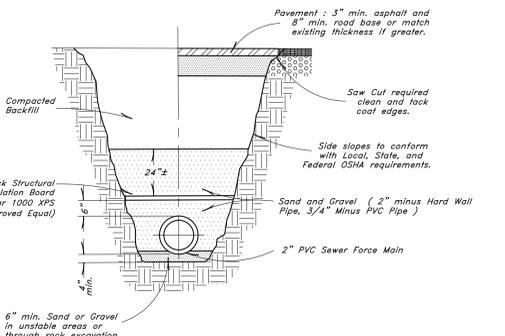
12 Nyloplast Perforated Area Drain
Not to Scale



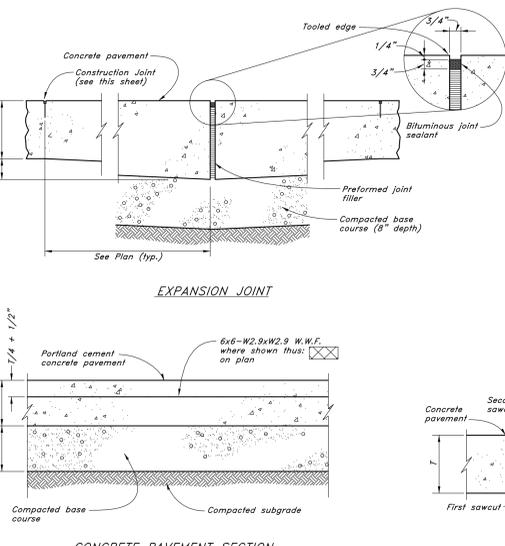
7 Inspection Port Detail
1 = Concrete pavement thickness
see Site Plan for pavement thickness.



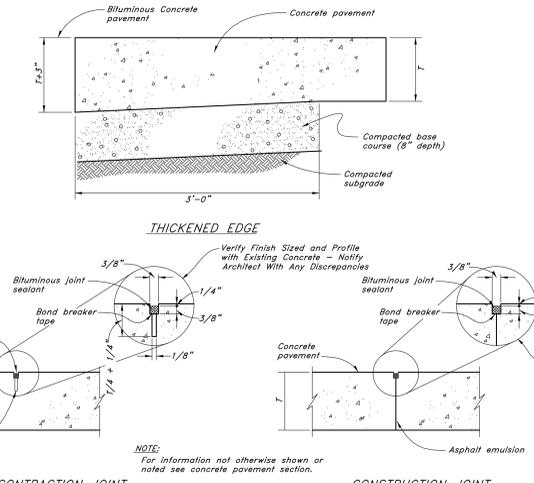
1 Typical Trench Detail
TRENCH



2 Force Main Trench with Insulation
TRENCH



3 Portland Cement Concrete Pavement



CONSTRUCTION JOINT

INCLUDED AS PART OF CHANGE ORDER #3

SYMBOLS LEGEND

| SYMBOL | DESCRIPTION |
|---|--|
| LIGHTING (REFER TO FIXTURE SCHEDULE FOR SYMBOLS) | |
| (W-3) | FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED. |
| (W-3) | FIXTURE IDENTIFICATION, EMERGENCY WITH BATTERY PACK, CONNECTED TO GENERATOR AS INDICATED. (W-3) INDICATES FIXTURE TYPE AS SCHEDULED. |
| EM | EMERGENCY. |
| LIGHTING CONTROL | |
| * | OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING. |
| ** | VACANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING. |
| (P) | PHOTOCELL. |
| STRUCTURED CABLING | |
| (W) | DATA CONNECTION: WIRELESS ACCESS POINT (WAP). REQUIRES (2) DATA DROPS PER DEVICE. |
| ▼x | OUTLET, DATA COMMUNICATION (*x INDICATES QUANTITY OF CABLES). |
| ▬ | TELEPHONE TERMINAL BOARD, FIRE TREATED PLYWOOD PAINTED. |
| ▬ | LAN RACK, FLOOR STANDING. |
| WIRING DEVICES | |
| ⊕ | RECEPTACLE, DUPLEX: NEMA 5-20R. |
| ⊕A | RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R. |
| ⊕W | RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WET LABEL, "WEATHERPROOF IN USE", NEMA 5-20R. |
| ⊕ | RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R. |
| ⊕ | RECEPTACLE, QUADRUPLE: NEMA 5-20R. |
| ⊕ | RECEPTACLE, SPECIAL PURPOSE. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG. |
| ⊕ | SWITCH, SINGLE POLE (*x INDICATES FIXTURES CONTROLLED). |
| ⊕ | RECEPTACLE, SINGLE PLEX, WITH USB OUTLET |
| WIRING METHODS | |
| — | WIRING. |
| — | WIRING TURNED UP OR TOWARDS OBSERVER. |
| — | WIRING TURNED DOWN OR AWAY FROM OBSERVER. |
| A-1,3,5 | BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS. |
| A-1,3,5 | BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE. FOR BRANCH WIRING USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS. |
| ● | MECHANICAL EQUIPMENT CONNECTION. REFER TO EQUIPMENT SCHEDULE FOR REQUIREMENTS. |
| REFERENCE AND LINE SYMBOLS | |
| ROOM NAME 100 | ROOM IDENTIFIER WITH ROOM NAME AND NUMBER. |
| 1 | KEYNOTE INDICATOR. |
| △ | REVISION INDICATOR. |
| x-x XMDP | MECHANICAL EQUIPMENT INDICATOR. "x-x" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XMDP" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION. |
| — | NEW LINE: MEDIUM LINE. |
| — | EXISTING TO REMAIN LINE: THIN LINE. |
| ---- | DEMOLITION LINE: DASHED, MEDIUM LINE. |

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

| | | | |
|-------|--|--------|---|
| 1P | SINGLE POLE | KV | KILOVOLT |
| 1PH | SINGLE-PHASE | KVA | KILOVOLT AMPERE |
| 1WAY | ONE-WAY | KVAR | KILOVOLT AMPERE REACTIVE |
| 2/C | TWO-CONDUCTOR | KW | KILOWATT |
| 2WAY | TWO-WAY | KWh | KILOWATT HOUR |
| 3/C | THREE-CONDUCTOR | LED | LIGHT EMITTING DIODE |
| 3WAY | THREE-WAY | LFD | LIQUID TIGHT FLEXIBLE METAL CONDUIT |
| 4OUT | QUADRUPLE RECEPTACLE OUTLET | LFS | LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT |
| 4PDT | FOUR-POLE DOUBLE THROW | LPS | LOW PRESSURE SODIUM LOCKED ROTOR AMPS |
| 4PST | FOUR-POLE SINGLE THROW | LRA | LOCKED ROTOR AMPS |
| 4WAY | FOUR-WAY | LTG | LIGHTING |
| A | ABOVE COUNTER | LV | LOW VOLTAGE |
| AC | ARMORED CABLE | MATV | MASTER ANTENNA TELEVISION SYSTEM |
| ADA | AMERICANS WITH DISABILITIES ACT | MC | METAL CLAD |
| ADJ | ADJACENT | MCA | MINIMUM CIRCUIT AMPS |
| AF | ABOVE FINISHED FLOOR | MCB | MAIN CIRCUIT BREAKER |
| AFG | ABOVE FINISHED GRADE | MCC | MOTOR CONTROL CENTER |
| AIC | AMPERE INTERRUPTING CAPACITY | MCP | MOTOR CIRCUIT PROTECTION |
| ALUM | ALUMINUM | MDP | MAIN DISTRIBUTION PANEL |
| AMP | AMPERE | MG | MOTOR GENERATOR |
| ANN | ANNUNCIATOR | MH | MANHOLE |
| AP | ACCESS POINT (WIRELESS DATA) | MIN | MINIMUM |
| AR | AS REQUIRED | MLO | MAIN LUGS ONLY |
| ASC | AMPS SHORT CIRCUIT PROTECTION | MOCP | MAXIMUM OVERCURRENT PROTECTION |
| ATS | AUTOMATIC TRANSFER SWITCH | NA | NOT APPLICABLE |
| AV | AUDIO VISUAL | NC | NORMALLY CLOSED |
| AWG | AMERICAN WIRE GAGE | NEC | NATIONAL ELECTRICAL CODE |
| BB | BUCK-BOOST TRANSFORMER | NEMA | NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION |
| BFMR | C | NFC | NATIONAL FIRE CODE |
| C | CEILING MOUNTED COMMUNITY ANTENNA TELEVISION | NFPA | NATIONAL FIRE PROTECTION ASSOCIATION |
| CB | CIRCUIT BREAKER | NIC | NOT IN CONTRACT |
| CCBA | CUSTOM COLOR AS SELECTED BY ARCHITECT | NO | NORMALLY OPEN |
| CCTV | CLOSED CIRCUIT TELEVISION | NTS | NOT TO SCALE |
| CF/CI | CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED | OC | ON CENTER |
| CF/OI | CONTRACTOR FURNISHED/ OWNER INSTALLED | OCP | OVER CURRENT PROTECTION |
| CFBA | CUSTOM FINISH AS SELECTED BY ARCHITECT | OF/CI | OWNER FURNISHED/ CONTRACTOR INSTALLED |
| CFBI | CUSTOM FINISH AS SELECTED BY ARCHITECT | OF/OI | OWNER FURNISHED/ OWNER INSTALLED |
| CM | CONSTRUCTION MANAGER | OFI | OWNER FURNISHED/ OWNER INSTALLED |
| CND | CONDUIT | OH DR | OVERHEAD (COILING) DOOR |
| CO | CONVENIENCE OUTLET | OL | OVERLOAD |
| COR | CONTRACTING OFFICER'S REPRESENTATIVE | PB | PUSHBUTTON |
| CP | CONTROL PANEL | PF | POWER FACTOR |
| CT | CURRENT TRANSFORMER | PH | PHASE |
| CTV | CABLE TELEVISION | PNL | PANEL |
| CJ | COPPER | PT | POTENTIAL TRANSFORMER |
| CSA | UNIT OF SOUND LEVEL | PTZ | PAN/TILT/ZOOM |
| DPDT | DOUBLE POLE, DOUBLE THROW | QTY | QUANTITY |
| DS | DISCONNECT SWITCH | R | REMOVE |
| EA | EACH | RCP | REFLECTED CEILING PLAN |
| EM | EMERGENCY | RMC | RIGID METAL CONDUIT |
| EMT | ELECTRIC METALLIC TUBING | RNC | RIGID NONMETAL CONDUIT |
| EMT | ELECTRIC NONMETALLIC TUBING | RPM | REVOLUTIONS PER MINUTE |
| EPO | EMERGENCY POWER OFF EQUIPMENT | RR | REMOVE AND RELOCATE |
| EQ | EQUIPMENT | SIS | START/STOP |
| EX | EXISTING | SCA | SHORT CIRCUIT AMPS |
| FA | FIRE ALARM | SCBA | STANDARD COLOR AS SELECTED BY ARCHITECT |
| FAP | FIRE ALARM CONTROL PANEL | SF | SQUARE FOOT (FEET) |
| FLA | FULL LOAD AMPS | SFBA | STANDARD FINISH AS SELECTED BY ARCHITECT |
| FMC | FLEXIBLE METAL CONDUIT | SPD | SURGE PROTECTIVE DEVICE |
| FOB | FREIGHT ON BOARD | SPDT | SINGLE POLE, DOUBLE THROW |
| FVNR | FULL VOLTAGE NON-REVERSING | SPEC | SPECIFICATION |
| FVR | FULL VOLTAGE REVERSING | SPST | SINGLE POLE, SINGLE THROW |
| G | GROUND | ST | SINGLE THROW |
| GEN | GENERATOR | SWBD | SWITCHBOARD |
| GFCI | GROUND FAULT INTERRUPTER | SWGR | SWITCHGEAR |
| GFP | GROUND FAULT PROTECTION | TL | TWIST LOCK |
| HD | HEAVY DUTY | TP | TELEPHONE POLE |
| HDA | HIGH INTENSITY DISCHARGE | TP | TWISTED PAIR |
| HQA | HAND-OFF-AUTOMATIC | TTB | TELEPHONE TERMINAL BOARD |
| HP | HORSE POWER | TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSOR |
| HPF | HIGH POWER FACTOR | TYP | TYPICAL |
| HPS | HIGH PRESSURE SODIUM | UF | UNDERFLOOR |
| HV | HIGH VOLTAGE | UGND | UNDERGROUND |
| HZ | HERTZ | UPS | UNINTERRUPTIBLE POWER SUPPLY |
| IO | INPUT/OUTPUT | V | VOLTS |
| IG | ISOLATED GROUND | VA | VOLT AMPERE |
| IMC | INTERMEDIATE METAL CONDUIT | VFC/VF | VARIABLE FREQUENCY MOTOR CONTROLLER |
| INIS | INSULATED/ ISOLATED | W/ | WITH |
| IR | INFRARED | W/O | WITHOUT |
| J-BOX | JUNCTION BOX | WP | WEATHERPROOF |
| | | XFMR | TRANSFORMER |

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE. NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

GENERAL ELECTRICAL NOTES

- CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC. SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.
- OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM.
 - THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.
 - THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.
 - THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE. THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.
- EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.
- SUBMITTALS: PROVIDE ORIGINAL ELECTRONIC PDF FORMAT, BOUND, BOOKMARKED (EACH SECTION AND PRODUCT), AND HIGHLIGHTED. JOB NAME AND SUBCONTRACTOR SHALL BE ON THE FRONT COVER. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.
- REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.
- ALL WORK SHALL BE DONE ACCORDING TO THE CURRENT NATIONAL ELECTRIC CODE (NEC), IBC, NFPA, AND IFC. COMPLIANCE AND FINAL APPROVAL IS SUBJECT TO THE ON SITE FIELD INSPECTION OF THE A.H.U.

ELECTRICAL SHEET INDEX

| | |
|-------|---|
| EEO.1 | SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES |
| EP1.1 | FIRST LEVEL POWER PLAN |
| EP1.2 | PAVILION POWER PLAN |
| EL1.1 | FIRST LEVEL LIGHTING PLAN |
| EL1.2 | PAVILION LIGHTING PLAN |



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SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES

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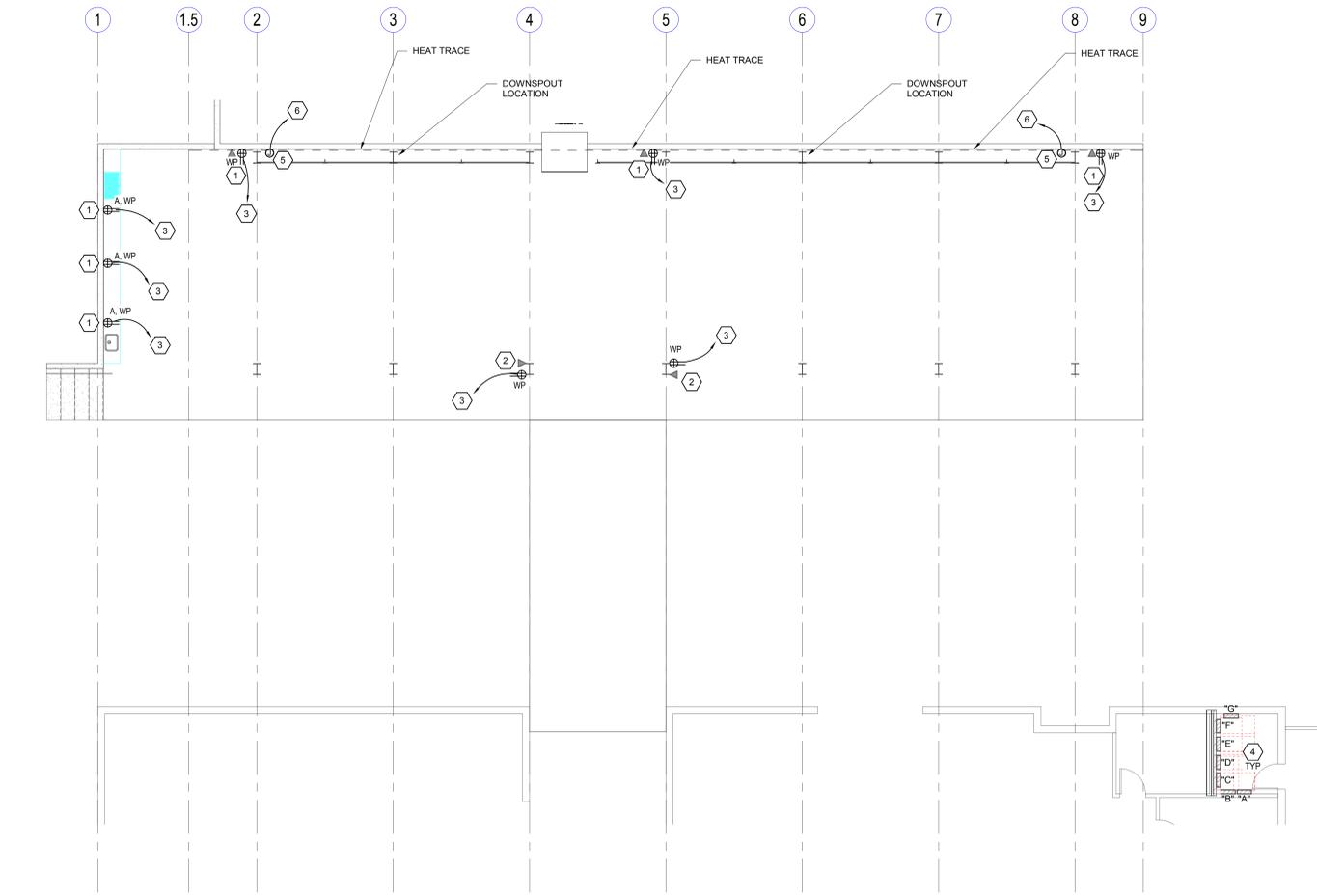
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DATE: 06/13/19 Phase 2
06/24/19 ORDER 2
07/25/19 CHANGE ORDER 3

SHEET NO. **EEO.1**

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ENGINEERS
324 S. State St., Suite 400
Salt Lake City, UT 84111
801-328-5155
801-328-5151
fax: 801-328-5155
www.spectrum-engineers.com



1 PAVILION POWER PLAN
SCALE: NTS

GENERAL SHEET NOTES

- ALL EXTERIOR RECEPTACLES SHALL BE GFCI PROTECTED WITH CAST-IRON WEATHERPROOF-IN-USE COVER.
- REFER TO ARCHITECTURAL ELEVATIONS FOR THE EXACT MOUNTING HEIGHTS AND LOCATIONS OF ALL DEVICES.
- ELECTRICAL DEVICES SHALL BE RECESSED IN THE CONCRETE WALLS. NO SURFACE MOUNTED CONDUIT OR BOXES WILL BE ACCEPTED IN THESE LOCATIONS.
- RIGID CONDUIT MUST BE USED WHEREVER EXPOSED. PAINT CONDUIT TO MATCH ADJACENT SURFACES.



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SHEET KEYNOTES

- MOUNT ELECTRICAL DEVICES IN SHORT RETAINING WALL. CENTER DEVICES IN WALL. REFER TO ARCHITECTURAL ELEVATIONS AND COORDINATE EXACT LOCATION WITH ARCHITECT.
- MOUNT ELECTRICAL DEVICES IN STEEL COLUMN POCKET. SURFACE MOUNT CONDUIT TIGHT TO COLUMN. PAINT CONDUIT AND BOXES TO MATCH STEEL SURFACES AND COORDINATE EXACT LOCATION WITH ARCHITECT.
- CIRCUIT TO SPARE 20A/1P CIRCUIT BREAKER IN EXISTING ELECTRICAL PANEL. FIELD VERIFY AVAILABLE CIRCUIT BREAKERS. PROVIDE UPDATED TYPEWRITTEN PANEL SCHEDULES AT THE COMPLETION OF THE PROJECT AND PROVIDE REDLINED AS-BUILT DRAWINGS WITH CIRCUIT NUMBERS TO THE ARCHITECT/ENGINEER/OWNER AT THE COMPLETION OF THE PROJECT.
- LOCATION OF EXISTING ELECTRICAL ROOM AND ELECTRICAL PANELS. FIELD VERIFY EXACT LOCATION AND AVAILABLE CIRCUIT BREAKERS.
- PROVIDE 208V HEAT TRACE ALONG THE FULL LENGTH OF THE GUTTER AND DOWNSPOUTS. PROVIDE RAY-CHEM SELF-REGULATING HEAT TRACE SYSTEM WITH MOISTURE AND TEMPERATURE SENSORS MOUNTED ON THE ROOF OR SUBMIT EQUIVALENT PRODUCT FOR THE ENGINEER'S APPROVAL.
- CIRCUIT TO EXISTING CIRCUIT BREAKER. PROVIDE NEW 30A/2P GFI CIRCUIT BREAKER WITH 30 MILLI-AMP TRIP RATING. CIRCUIT WITH 2 #10, #10G IN 3/4" CONDUIT. PROVIDE UPDATED TYPEWRITTEN PANEL SCHEDULES AT THE COMPLETION OF THE PROJECT.

PAVILION POWER PLAN

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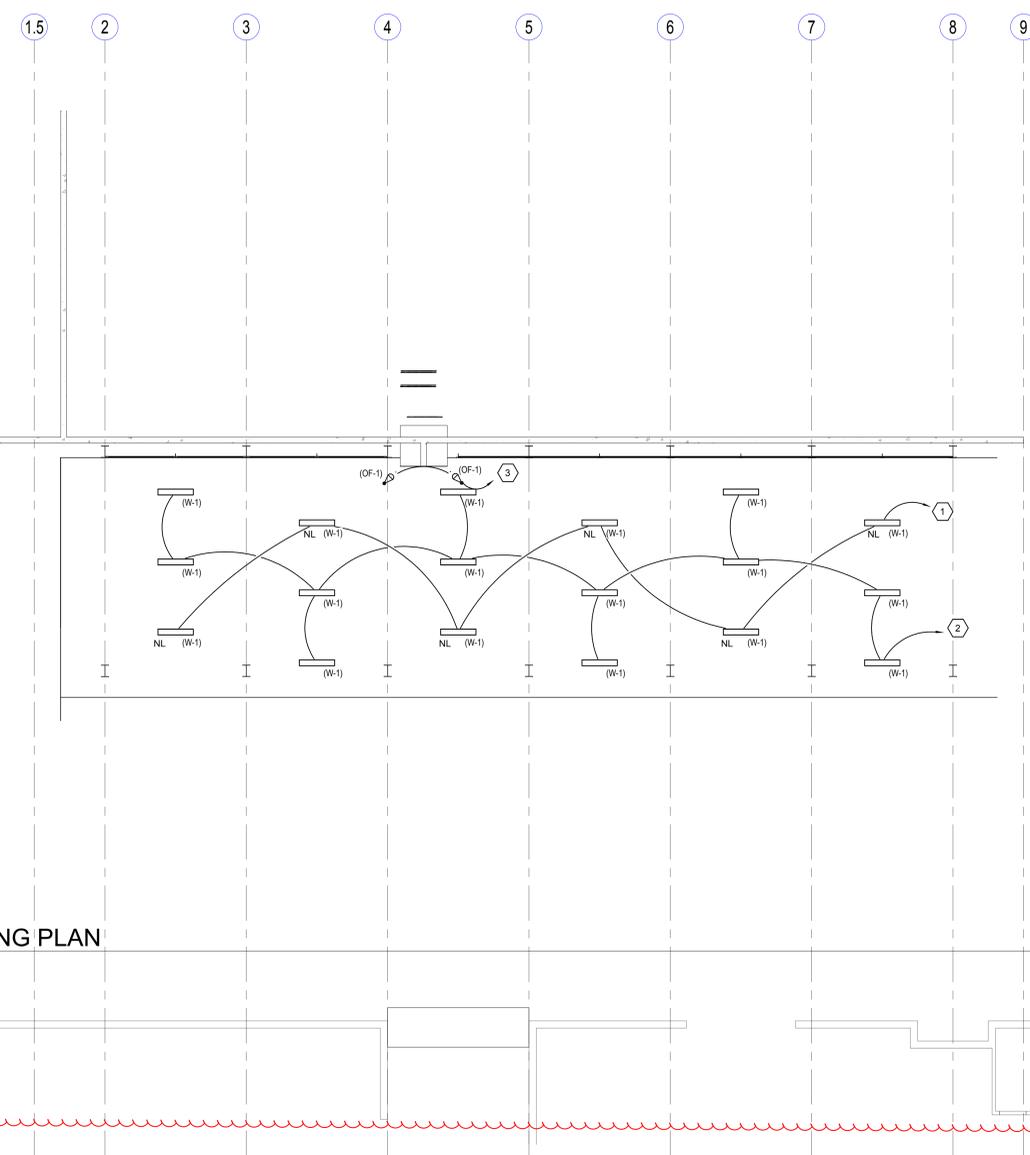
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SHEET NO.
EP1 2

INCLUDED AS PART OF CHANGE ORDER #3

INTERIOR LIGHTING FIXTURE SCHEDULE

| MOUNTING | LUMINAIRE OPTIONS | FINISH | DIFFUSER/LENS | REFLECTOR |
|--|--|--|---|---|
| B - BASE C - CEILING F - FLANGE G - GRID P - PENDANT PL - POLE R - RECESSED S - SURFACE W - WALL | ARHR - AIR RETURN AND HEAT REJECTION DL - DAMP LOCATION EOC - EARTHQUAKE CLIPS F - FUSING HLD - HINGED AND LATCHED DOOR HS - HOUSE SIDE SHIELD PS - PHOTOCELL SWITCH QRS - QUARTZ RESTRIKE ST - STATIC WG - WIRE GUARD WL - WET LOCATION | MW - MATTE WHITE BL - BLACK SL - SILVER CL - CLEAR PW - PAINTED WHITE EA - EXTRUDED ALUMINUM S - STEEL GS - GALVANIZED STEEL C - CAST CBA - COLOR BY ARCHITECT SCBA - STANDARD COLOR BY ARCHITECT CCA - CUSTOM COLOR BY ARCHITECT FS - MEETS FEDERAL STANDARD 205D TP - THERMALLY PROTECTED FL - FLUSH R - REGRESS M - MITERED | #A - ACRYLIC #THICK #CA - ACRYLIC #THICK (OPAL) #C - CLASS (CLEAR) #G - GLASS (OPAL) #F - GLASS (FROSTED) #SL - SOFT GLOW LENS #HPL - HIGH PERFORMANCE LENS #DO - DROP OPAL #CGL - CONVEX GLASS LENS #S - SATIN LENS | OP - NONE/OPEN SP - SPECULAR SS - SEMI-SPECULAR D - DIFFUSE (WHITE ENAMEL) SC - SPECULAR (COLORED) PR - PRISMATIC FDR - FULL DEPTH REFLECTOR DS - DIFFUSE (BISM SPECULAR) SILVER LI - LOW IREDESCENT IR - IREDESCENT SL - SILVER GL - GOLD CA - CLEAR ALZAK |

| ID | DESCRIPTION | NOMINAL SIZE | | | | MOUNTING | TYPE | COLOR TEMP | CRI | DRIVER CONFIGURATION | VOLTAGE | WATTS | FINISH | FIXTURE LUMENS | DIFFUSERS/LENS | REFLECTOR | OPTIONS | NOTES | MANUFACTURER (CATALOG SERIES) | | |
|--------|--|--------------|-------|--------|-------------------|----------|------|------------|-----|----------------------------|---------|-------|--------|----------------|----------------|-----------|---------|-------|--------------------------------------|----------|----------|
| | | LENGTH | DEPTH | HEIGHT | DIAMETER/APERTURE | | | | | | | | | | | | | | OPTION 1 | OPTION 2 | OPTION 3 |
| (AS-1) | REPLACE EXISTING UPLIGHT FIXTURES IN EXACT SAME LOCATIONS. | 2" | 4" | 4" | 6" | C | LED | 4000K | | (0-10V DIMMING) LED DRIVER | UNV | 20 | MW | 0 | | | | | (ASYX-WM-L4-ID-U-W-40-1-UNV-W-R-STD) | | |
| (OF-1) | DIE-CAST ALUMINUM LED SPOTLIGHT. MEDIUM DISTRIBUTION. LOUVERS AND 360 DEGREE GLARE SHIELD. | | | | | C | LED | 4000K | | (0-10V DIMMING) LED DRIVER | UNV | | | | | | | | BEGA (77701-70796-70720) | | |
| (W-1) | SURFACE MOUNT VANDAL RESISTANT LED LINEAR FIXTURE. | 4" | 8" | 4" | | C | LED | 4000K | | (0-10V DIMMING) LED DRIVER | UNV | | | | | | | | | | |



INCLUDED AS PART OF CHANGE ORDER #3 → **1 PAVILION LIGHTING PLAN**
SCALE: NTS

GENERAL NOTES

- PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER.
- CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED. CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES.
- SUBSTITUTIONS AND/OR EQUAL FIXTURES MUST RECEIVE APPROVAL PRIOR TO BIDDING. THEY MUST BE SUBMITTED TO THE ENGINEER NO LESS THAN 2 WEEKS PRIOR TO BID OPENING.
- SAMPLES MUST BE PROVIDED FOR ANY AND ALL FIXTURES UPON A/E REQUEST PRIOR TO RELEASING FIXTURES.
- ALL FIXTURES SHALL BE LISTED AND APPROVED FOR THEIR INTENDED USE AND LOCATION.
- VERIFY THE PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS.
- COMPLY WITH THE "INTERIOR LIGHTING" SECTION OF THE SPECIFICATIONS.
- REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, DRIVERS, AND LAMPS.
- ALL LIGHT FIXTURES TO BE EITHER "DLC" OR "LIGHTING FACTS" LISTED OR TO BE APPROVED BY ARCHITECT/ENGINEER AND OWNER.

SHEET KEYNOTES

- PAVILION NIGHT-LIGHTS. CIRCUIT THROUGH PROGRAMMABLE TIME-CLOCK TO EXISTING 20A CIRCUIT BREAKER IN LIGHTING CIRCUIT PANEL BOARD.
- PAVILION GENERAL AREA LIGHTS. CIRCUIT THROUGH DIGITAL TIMER SWITCH MOUNTED IN THE CIRCULATIONS DESK. CONFIRM EXACT LOCATION OF THE SWITCH WITH THE ARCHITECT/OWNER. PROVIDE SWITCH WITH 30 MINUTES, 1 HOUR, 2 HOUR, AND 4 HOUR PUSHBUTTON OPTIONS. CIRCUIT TO EXISTING 20A CIRCUIT BREAKER IN LIGHTING CIRCUIT PANEL BOARD.
- PAVILION SCULPTURE LIGHTS. CIRCUIT THROUGH PROGRAMMABLE TIME-CLOCK TO EXISTING 20A CIRCUIT BREAKER IN LIGHTING CIRCUIT PANEL BOARD.



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 324 S. State St., Suite 400
 Salt Lake City, UT 84111
 801-678-7077
 801-328-5151
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801.521.9111 FAX 801.521.9158

CIVIL ENGINEER
GREAT BASIN ENGINEERING
ATTN: MARK E. BARBITT
5746 SOUTH 1475 EAST
OGDEN, UTAH 84403
801.394.4515

LANDSCAPE ARCHITECT
ARCSITIO
ATTN: RICHARD GILBERT
1058 EAST 2100 SOUTH
SALT LAKE CITY, UT 84106
801.487.4923

STRUCTURAL ENGINEER
ARW ENGINEERS
ATTN: MCKAY PARRISH
1594 PARK CIRCLE
OGDEN, UT 84404
801.782.6008

MECHANICAL ENGINEER
SPECTRUM ENGINEERS
ATTN: BENJAMIN SCHLUP
324 SOUTH STATE STREET, SUITE 400
SALT LAKE CITY, UT 84111
801.328.5151

ELECTRICAL ENGINEER
SPECTRUM ENGINEERS
ATTN: TYLER SQUIRE
324 SOUTH STATE STREET, SUITE 400
SALT LAKE CITY, UT 84111
801.328.5151



VICINITY PLAN

NOT TO SCALE

| SYMBOLS | | | |
|---------------|---|-----|--|
| 1 | INDICATES WALL TYPE | ◇ | WINDOW NUMBER |
| ① | DOOR NUMBER | ◊ | INDICATES GLASS TYPE |
| ⊕ | INDICATES ELEVATION NO. INDICATES PAGE NO. | —+— | DIMENSION TO FACE OF GYP. BD. CONC. OR MASONRY |
| ⊕ | INDICATES OBJECT INDICATES ELEVATION | — — | DIMENSION TO CENTER LINE |
| ① | INDICATES FINISHED FLOOR TYPE | ▨ | RIGID INSULATION |
| ⊕ | INDICATES GRID NUMBER | ▩ | BATT INSULATION |
| ① | KEYNOTE | ▨ | FINISHED WOOD |
| OFFICE XXX | INDICATES ROOM NAME INDICATES ROOM NUMBER | ▨ | BLOCKING |
| △ | REVISIONS | ▨ | CONTINUOUS WOOD |
| ⊕ | INDICATES SECTION NO. INDICATES PAGE NO. | ▨ | METAL OR METAL STUDS |
| ⊕ | INDICATES DETAIL NO. INDICATES PAGE NO. | ▨ | WOOD WALL |
| ▨ | GLAZED MASONRY WALL | ▨ | MASONRY WALL |

| ABBREVIATIONS | | | |
|---------------|--|--------|-------------------------------|
| A.B. | ANCHOR BOLT | HDR. | HEADER |
| A.C. | ASPHALTIC CONCRETE | INT. | INTERIOR |
| ADJ. | ADJUSTABLE | M.O. | MASONRY OPENING |
| B.O. | BOTTOM OF | M.R. | MOISTURE RESISTANT |
| C.B. | CATCH BASIN | N.I.C. | NOT IN CONTRACT |
| C.J. | CONTROL JOINT | OPP. | OPOSITE |
| CONC. | CONCRETE | P.C.J. | PLASTER CONSTRUCTION JOINT |
| CONT. | CONTINUOUS | R.D. | ROOF DRAIN |
| D.F. | DRINKING FOUNTAIN | SIM. | SIMILAR |
| DIF. | DIFFUSER | S.N.D. | SANITARY NAPKIN DISPOSAL |
| E.I.F.S. | EXTERIOR INSULATION AND FINISH SYSTEM | STL. | STEEL |
| E.J. | EXPANSION JOINT | S.S. | STAINLESS STEEL |
| EL. | ELEVATION | T.A. | TOP OF ASPHALT |
| EQ. | EQUAL | T.G. | TOP OF GRATE |
| EXIST. | EXISTING | T.W. | TOP OF WALK |
| EXT. | EXTERIOR | T.O.C. | TOP OF CONCRETE |
| F.D. | FLOOR DRAIN | T.O.M. | TOP OF MASONRY |
| F.F. | FINISH FLOOR | T.O.S. | TOP OF STEEL |
| F.O. | FACE OF | T.O.W. | TOP OF WALL |
| F.O.M. | FACE OF MASONRY | TYP. | TYPICAL |
| F.S.R. | FLEXIBLE SHEET ROOFING | VIF. | VERIFY IN FIELD |
| F.T. | FIRE TREATED | U.N.O. | UNLESS OTHERWISE NOTED |
| GYP.BD. | GYPSUM BOARD | W/ | WITH |

| INDEX OF DRAWINGS | |
|------------------------|--------------------|
| NO. | SHEET TITLE |
| PHASE 2: ARCHITECTURAL | |
| T1 | TITLE SHEET |
| LANDSCAPE | |
| LL101 | LANDSCAPE PLAN |
| LL501 | LANDSCAPE DETAILS |
| LR101 | IRRIGATION PLAN |
| LR501 | IRRIGATION DETAILS |
| LR502 | IRRIGATION DETAILS |

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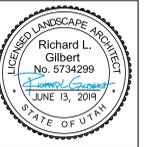
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SHEET NO. T1

TITLE SHEET



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LANDSCAPE PLAN

SALT LAKE CITY, UTAH 84101

CHANGE ORDER 3 07/25/19

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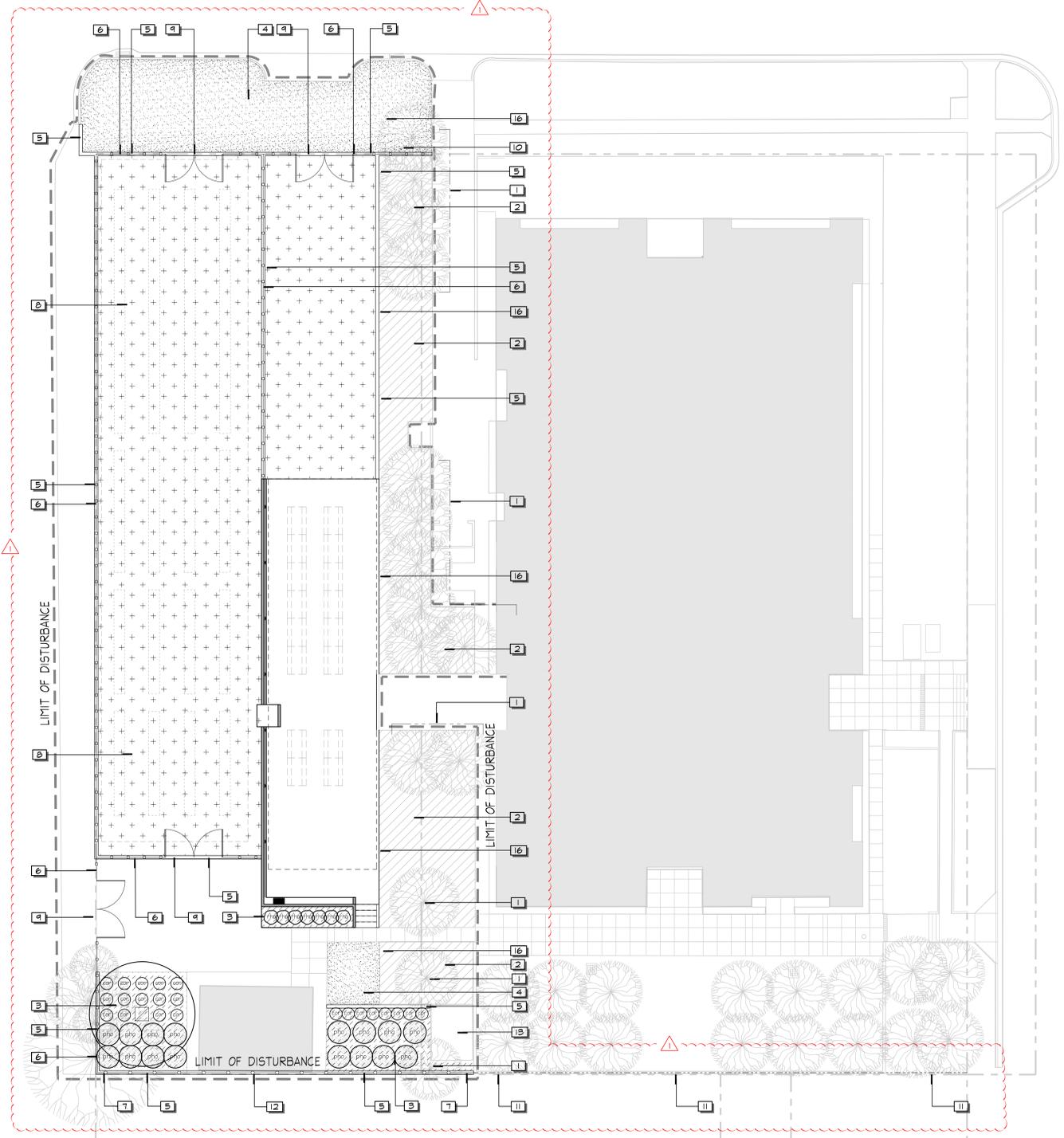
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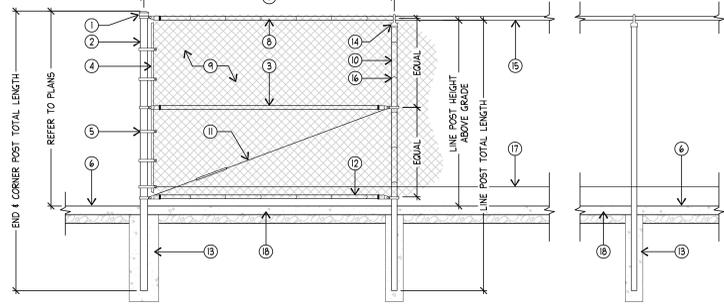
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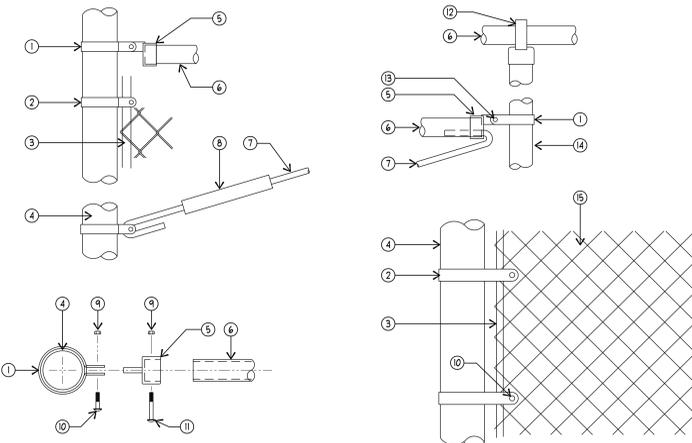
| PLANT SCHEDULE | | | | | | A |
|--|--|-----------------------|-------|---------|-----------|---|
| TREES | BOTANICAL NAME | COMMON NAME | CONT. | CAL. | QTY | |
| | Ulmus x hollandica 'Pioneer' | Pioneer Elm | B & B | 3" Cal | 1 | |
| SHRUBS | BOTANICAL NAME | COMMON NAME | SIZE | | QTY | |
| | Cornus sanguinea 'Arctic Fire' TM | Arctic Fire Dogwood | 5 gal | | 22 | |
| | Photinia fraseri | Photinia Standard | 5 gal | | 16 | |
| | Rhamnus frangula 'Columnaris' | Tall-hedge Buckthorn | 5 gal | | 7 | ▲ |
| GROUND COVERS | BOTANICAL NAME | COMMON NAME | CONT. | SPACING | QTY | |
| | Native Grass Seed Mix See SHT. L-L501 DTL. M | Native Grass Seed Mix | seed | | 12,231 sf | ▲ |
| | Turf-Grass REPAIR TURF AS NEEDED | Turf-Grass | sod | | 2,714 sf | ▲ |
| * CONTRACTOR TO VERIFY QUANTITIES, FOR REFERENCE ONLY. ** USE "RTF SOD" FROM ALL-AMERICAN SOD FARMS, "BIOBLUE SOD" FROM BIOGRASS SOD FARMS OR APPROVED EQUAL. PROPOSED SUBSTITUTIONS MUST BE SUBMITTED IN WRITTEN FORM BY THE CONTRACTOR AND APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE. | | | | | | |
| REFERENCE NOTES | | | | | | B |
| SYMBOL | DESCRIPTION | QTY | | | | |
| | PROTECT IN PLACE EXISTING TREE - SEE SHT. LL501 DTL. A | | | | | |
| | PROTECT EXISTING TURF GRASS | | | | | |
| | SHRUB BED AREA - PRIOR INSTALLING SHRUB BEDS, THE CONTRACTOR SHALL PERFORM THE FOLLOWING STEPS: 1. REMOVE ALL EXISTING SOILS TO A DEPTH OF 20 INCHES. 2. SCARIFY THE SUBSOIL TO A DEPTH OF 6 INCHES. 3. INSTALL 3 INCH CAPILLARY BARRIER OF PEA GRAVEL OR SIMILAR TYPE OF MATERIAL. 4. IMPORT AND INSTALL 12 INCHES OF TOPSOIL PER SECTION 32 9200 - 2.3 AND 2.4 OVER CAPILLARY BARRIER. 5. INSTALL WEED BARRIER FABRIC. 6. PLACE 6" BARK MULCH OVER FABRIC. IF STEPS 1 THROUGH 4 CANNOT BE EXECUTED, BRING IT TO THE ATTENTION OF ARCHITECT. DO NOT OVER EXCAVATE FOR TOPSOIL AND BARK MULCH IF THEY AFFECT THE EXISTING TREE ROOTS. PROTECT TREES IN PLACE. | 1,439 sf | ▲ | | | |
| | TURF AREA - PRIOR INSTALLING TURF, THE CONTRACTOR SHALL PERFORM THE FOLLOWING STEPS: 1. REMOVE ALL EXISTING SOILS TO A DEPTH OF 15 INCHES. 2. SCARIFY THE SUBSOIL TO A DEPTH OF 6 INCHES. 3. INSTALL 3 INCH CAPILLARY BARRIER OF PEA GRAVEL OR SIMILAR TYPE OF MATERIAL. 4. IMPORT AND INSTALL 12 INCHES OF TOPSOIL PER SECTION 32 9200 - 2.3 AND 2.4 OVER CAPILLARY BARRIER. IF STEPS 1 THROUGH 4 CANNOT BE EXECUTED, BRING IT TO THE ATTENTION OF ARCHITECT. | | ▲ | | | |
| | CONCRETE MOW CURB - SEE SHT. LL501 DTL. B,C | 707 lf | | | | |
| | CHAINLINK FENCING: 4 FT. HIGH - FINISH: BLACK VINYL - SEE SHT. L501, DTL. -D,J,K | 434 lf | | | | |
| | CHAINLINK FENCING: 6 FT. HIGH - FINISH: BLACK VINYL - SEE SHT. L501, DTL. -D,J,K | 108 lf | | | | |
| | SEED MIX AREA - PRIOR INSTALLING SEED MIX, THE CONTRACTOR SHALL PERFORM THE FOLLOWING STEPS: 1. REMOVE ALL EXISTING SOILS TO A DEPTH OF 15 INCHES. 2. SCARIFY THE SUBSOIL TO A DEPTH OF 6 INCHES. 3. INSTALL 3 INCH CAPILLARY BARRIER OF PEA GRAVEL OR SIMILAR TYPE OF MATERIAL. 4. IMPORT AND INSTALL 12 INCHES OF TOPSOIL PER SECTION 32 9200 - 2.3 AND 2.4 OVER CAPILLARY BARRIER. PROTECT IN PLACE EXISTING LEACH FIELD, PER CIVIL ENGINEERS DRAWINGS. MINIMUM DEPTH OF TOPSOIL OVER LEACH FIELD SHALL BE 12 INCHES. COORDINATE WITH CIVIL ENGINEERS DRAWINGS. IF STEPS 1 THROUGH 4 CANNOT BE EXECUTED, BRING IT TO THE ATTENTION OF ARCHITECT. REFER TO SHT. L-L501 DETAIL M. | 12,225 sf | ▲ | | | |
| | 16 FT WIDE CHAINLINK GATE: 4 FT. HIGH - FINISH: BLACK VINYL - SEE SHT. L501, DTL. -D,J,K, L | | ▲ | | | |
| | COORDINATE FENCE ALIGNMENT AROUND UTILITIES WITH ARCHITECT | | | | | |
| | EXISTING CHAINLINK FENCING BEHIND WALL - STRAIGHTEN, REPAIR, AND / OR REBUILD TO STANDARDS OF A NEW FENCE. FIELD VERIFY. | | ▲ | | | |
| | CONTINUE FENCE AND MOW CURB BEHIND EXISTING STRUCTURE | | ▲ | | | |
| | EXISTING CONCRETE PAD | | ▲ | | | |
| | PATCH AND REPAIR TURF FOR PROPOSED IMPROVEMENTS - BLEND INTO PROPOSED GRADES AND LANDSCAPE | | ▲ | | | |
| * CONTRACTOR TO VERIFY QUANTITIES, FOR REFERENCE ONLY. | | | | | | |
| PLANTING NOTES | | | | | | C |
| 1. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COSTS INCURRED DUE TO DAMAGE OF SAID UTILITIES, AND HARDSCAPES. 2. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE OWNER'S REP. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION. 3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH THE LANDSCAPE CONSTRUCTION FOR THIS PROJECT. 4. ALL PLANT MATERIAL SHALL BE APPROVED BY THE ARCHITECT AND THE OWNER'S REPRESENTATIVE UPON DELIVERY TO THE SITE, AND PRIOR TO INSTALLATION. ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE ONLY AS APPROVED BY THE ARCHITECT AND THE OWNER'S REPRESENTATIVE. 5. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS. IF DISCREPANCIES ARISE BETWEEN ACTUAL PLANTING AREA SIZES IN THE FIELD AND THOSE SHOWN ON THE PLANS, CONTRACTOR SHALL CONTACT THE ARCHITECT AND THE OWNER'S REPRESENTATIVE FOR RESOLUTION. FAILURE TO MAKE SUCH CONFLICTS KNOWN WILL RESULT IN CONTRACTOR'S LIABILITY FOR MATERIALS RELOCATION. 6. FINAL LOCATIONS OF ALL PLANT MATERIALS SHALL BE SUBJECT TO APPROVAL OF THE ARCHITECT AND THE OWNER'S REPRESENTATIVE. TREES SHALL NOT BE PLANTED LESS THAN 5'-0" FROM CURBS OR HARD SURFACE AREAS UNLESS A ROOT BARRIER IS INSTALLED. 7. PRIOR TO INSTALLATION OF THE TREES, A TEST SHALL BE PERFORMED TO ENSURE PROPER DRAINAGE. THIS SHALL BE PERFORMED BY USU ANALYTICAL LABS OR APPROVED EQUAL SOIL ENGINEER AT CONTRACTOR'S EXPENSE. IF TREE PITS ARE NOT PROPERLY DRAINING, A DRAINAGE SLUMP SHALL BE PROVIDED OR CONTRACTOR SHALL PROVIDE RECOMMENDATIONS FOR APPROVAL BASED ON THE OF THE CERTIFIED SOIL ENGINEER ANALYSIS. 8. LEAVE LABELS ON PLANTS. | | | | | | |
| NORTH ARROW / SCALE | | | | | | D |
| | | | | | | |



| FENCE HEIGHT | END AND CORNER POSTS | | | | LINE POSTS | | | |
|--------------|----------------------|------|--------------------|-------------------------|------------|--------------------|-------------|--------------------|
| | NOMINAL HEIGHT | O.D. | PIPE WEIGHT LBS/FT | POST HEIGHT ABOVE GRADE | O.D. | PIPE WEIGHT LBS/FT | POST LENGTH | HEIGHT ABOVE GRADE |
| 4'-0" | 2 3/4" | 3.65 | 6'-0" | 4'-0 3/4" | 1 1/2" | 2.72 | 5'-8" | 3'-8 1/2" |
| 6'-0" | 2 3/4" | 3.65 | 9'-0" | 6'-0 3/4" | 1 1/2" | 2.72 | 8'-8" | 5'-8 1/2" |
| 8'-0" | 3" | 5.80 | 11'-0" | 8'-0 3/4" | 2 3/8" | 3.65 | 10'-8" | 7'-8 1/2" |
| 10'-0" | 3" | 5.80 | 13'-0" | 10'-0 3/4" | 2 3/8" | 3.65 | 12'-8" | 9'-8 1/2" |
| 12'-0" | 4" | 5.80 | 15'-0" | 12'-0 3/4" | 2 3/8" | 3.65 | 14'-8" | 11'-8 1/2" |



J CHAINLINK FENCING
SCALE: NTS



K CHAINLINK FENCING CONNECTIONS
SCALE: NTS

NATIVE SEED MIX

| SYMBOL | BOTANICAL NAME | COMMON NAME |
|--------|-------------------------------|----------------------|
| | <i>Achnatherum hymenoides</i> | Indian Ricegrass |
| | <i>Bouteloua gracilis</i> | Blue Grama |
| | <i>Elymus elymoides</i> | Bottlebrush Sagewort |
| | <i>Festuca idahoensis</i> | Idaho Fescue |
| | <i>Festuca ovina</i> | Sheep Fescue |
| | <i>Nassella viridula</i> | Green Needle Grass |
| | <i>Sporobolus airoides</i> | Alkali Sacaton |
| | <i>Sesleria caerulea</i> | Blue Floor Grass |

NATIVE SEED MIX NOTES

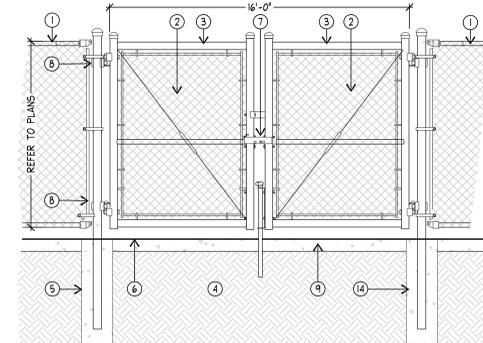
- AFTER THE TOPSOIL HAS BEEN SPREAD AND FINE GRADED, THE PREPARED SOIL SURFACE SHALL BE WATERED SUFFICIENTLY TO GERMINATE THE SURFACE COVER CROP OF WEEDS AT WHICH TIME THE WEEDS WILL BE KILLED OUT WITH A WEED KILLER SPRAY. IF THE DEAD WEED CROP IS OVER 4 INCHES TALL THE DEAD WEEDS SHALL BE POWDERED DOWN TO 2 INCHES IN HEIGHT.
- SEED SHALL BE PLANTED AT THE RATE OF 100 LBS/ACRE. SEED MIX COMPOSITION (PERCENTAGE OF EACH SPECIES) SHALL BE AS RECOMMENDED BY THE SUPPLIER. ONCE THE WEEDS ARE DEAD, THE SEED MIX SHALL BE SPREAD BY BROADCASTING ONE HALF THE SEED MIX ON THE SURFACE OF THE GROUND AND MIXING THE OTHER HALF OF THE SEED MIX IN THE WOOD FIBER HYDRO MULCH. APPLY HYDRO MULCH OVER THE SEED BED SURFACE AT 1800 LBS PER ACRE. FOR SLOPE AREAS, PROVIDE A MULCH TACKIFIER MIXED INTO THE HYDRO MULCH. SEED BED SHALL BE WATERED TO ENSURE A MOISTURE DEPTH OF 18" PRIOR TO SEEDING.
- ALL SOIL WASHING AND EROSION PROBLEMS SHALL BE REPAIRED AND ALL SPARSE GRASS SEEDING AREAS SHALL BE OVER SEED AS REQUIRED TO ESTABLISH A VIGOROUS STAND OF NATIVE GRASSES. THE CONTRACTOR SHALL MAINTAIN NATIVE SEEDING AREAS BY MATURING, AND WEEDING THE SEED BED TO ESTABLISH A HEALTHY STAND OF NATIVE GRASSES.
- THE CONTRACTOR APPLY BROADLEAF WEED KILLER TO HELP CONTROL THE WEEDS ONLY AFTER THE SEED IS ESTABLISHED. THE MAINTENANCE OF THE SEED BED MAY TAKE ONE YEAR OR LONGER TO ESTABLISH A HEALTHY STAND OF NATIVE GRASSES. (THE CONTRACTOR'S LEVEL ON MAINTENANCE SHALL DETERMINE THE TIME FRAME REQUIRED TO ESTABLISH A HEALTHY GRASS STAND.)
- THE CONTRACTOR SHALL REMOVE ALL EXCESS DIRT FROM EXCAVATED PLANTING PITS AND SHALL PROVIDE MINIMAL DISTURBANCE TO ESTABLISHED NATIVE GRASS AREAS. ALL DAMAGE TO NATIVE GRASS AREAS SHALL BE REPAIRED AND THE MAINTENANCE TIME FOR NATIVE GRASS AREA REPAIRS WILL BE EXTENDED.

M NATIVE SEED MIX
SCALE: NTS

- NOTES:**
- POSTS: SCHED. 40 PIPE, TRIPLE COATED HIGH TENSILE STEEL PIPE OR ROLL-FORMED C-SECTION OF THE SIZE SHOWN IN TABLE AND MEETING ASTM 1043 GROUP II.
 - ALL GALVANIZED FITTINGS TO CONFORM TO ASTM-A153
 - DO NOT USE ALUMINUM TIES
 - FINISH - BLACK VINYL COATED

| HEIGHT | GATE OPENING | GATE POST | GATE FRAME |
|---------------|--|-----------|------------|
| UNDER 6 FT | SINGLE TO 6 FT OR DOUBLE TO 12 FT OVER 12 TO 16 FT | 2 1/2" | 1 1/2" |
| 6 FT AND OVER | SINGLE TO 6 FT OR DOUBLE TO 12 FT OVER 12 TO 24 FT | 2 1/2" | 1 1/2" |
| | SINGLE 6 TO 13 FT OR DOUBLE OVER 12 TO 24 FT | 3 1/2" | 1 1/2" |
| | SINGLE OVER 13 TO 18 FT OR DOUBLE OVER 24 TO 36 FT | 6" | 1 1/2" |
| | SINGLE OVER 18 FT OR DOUBLE OVER 36 FT | 8" | 1 1/2" |

- * GATES OVER 6 FT IN HEIGHT AND WIDER THAN 12 FT REQUIRE (3) INDUSTRIAL PRESSED STEEL HINGES.



L CHAINLINK FENCE - GATE
SCALE: NTS

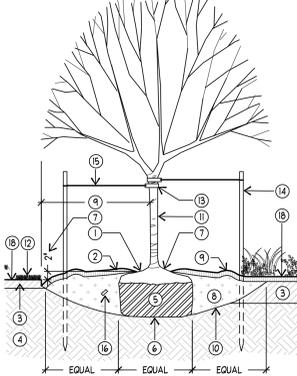
- NOTES:**
1. DOME POST CAP
 2. ROUND END/CORNER POST (MAX. DISTANCE 500FT. O.C.)
 3. 1 1/2" O.D. BRACE RAIL (CENTERED) FOR FENCE HEIGHTS OF 6'-0" AND ABOVE
 4. 1/2" x 3/2" TENSION BAR
 5. 1/8" x 3/2" TENSION BAR @ 12" O.C.

- NOTES:**
6. FINISH GRADE
 7. 8'-0" POST SPACING FOR FENCE HEIGHTS OF 6'-0" AND BELOW. 10'-0" SPACING FOR HEIGHTS ABOVE 6'-0".
 8. 2 1/2" x 4" GA. CORROSION-RESISTANT FABRIC KNUCKLED TOP & BOTTOM
 9. LINE POST
 10. ADJUSTABLE TRUSS ROD W/ TURNBUCKLE @ ALL CORNERS & INTERSECTION
 11. CONT. 1 1/2" O.D. BOTTOM RAIL FOR FENCE HEIGHTS OF 6'-0" AND ABOVE
 12. CONCRETE FOOTING, 4X POST DIA.
 13. LINE POST LOOP CAP
 14. CONT. 1 1/2" O.D. TOP RAIL
 15. LINE POST TIE, TYP.
 16. TENSION WIRE (MIN. 7 GA.) W/ HOG RINGS AS REQUIRED.
 17. CONCRETE MONOCURB

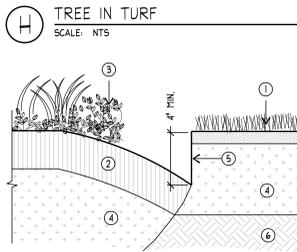
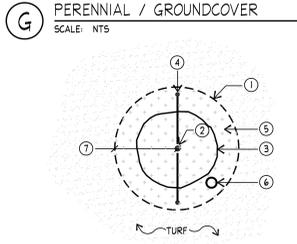
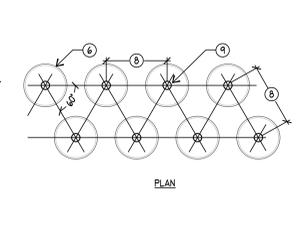
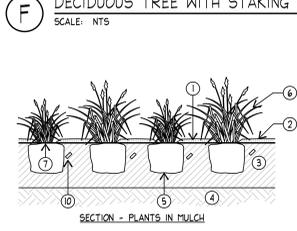
- NOTES:**
1. POSTS: SCHED. 40 PIPE, TRIPLE COATED HIGH TENSILE STEEL PIPE OR ROLL-FORMED C-SECTION OF THE SIZE SHOWN IN TABLE AND MEETING ASTM 1043 GROUP II.
 2. ALL GALVANIZED FITTINGS TO CONFORM TO ASTM-A153
 3. DO NOT USE ALUMINUM TIES
 4. FINISH - BLACK VINYL COATED

- NOTES:**
1. REFER TO SHEET L-L501, J, K FOR CHAINLINK FENCING
 2. 2"x2"x4" GA. CORROSION-RESISTANT FABRIC KNUCKLED TOP & BOTTOM - BLACK VINYL COATED
 3. GATE - WELDED FRAME
 4. COMPACTED SUBGRADE
 5. CONCRETE FOOTING
 6. FINISH GRADE
 7. GATE FORK LATCH - CHAIN LINK FENCE TO BE ACCESSIBLE PER CHAPTER II OF THE IBC AND SHALL NOT REQUIRE TIGHT GRASPING, TIGHT FINCHING OR TWISTING OF THE WRIST TO OPERATE. GATE FORK LATCH SHALL BE INSTALLED 34 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISHED FLOOR. PROVIDE SHOP DRAWINGS.
 8. GATE HINGE, BALL AND SOCKET OR APPROVED EQUAL.
 9. CONCRETE MONOCURB

- NOTES:**
1. PRUNE DEAD, DAMAGED, OR RUBBING BRANCHES AT PLANTING TIME. DO NOT PRUNE LEADER.
 2. REMOVE ALL WIRES, ETC. FROM THE TREE'S STEM. LEAVE LABELS ON PLANTS.
 3. TREE GRAFT MUST BE PLANTED 2" MIN ABOVE FINISH SURFACE.
 4. PLANT TREE PLUMB.



- NOTES:**
1. BRACE BAND
 2. TENSION OR FABRIC BAND
 3. TENSION BAR
 4. END, CORNER OR GATE POST
 5. RAIL END WITH OFFSET LUG
 6. 2" O.D. BRACE RAIL, TYP.
 7. TRUSS ROD
 8. TURNBUCKLE
 9. 3/4" HEX NUT, TYP.
 10. 3/4" x 1-1/2" CARRIAGE BOLT, TYP.
 11. 3/4" x 2-1/2" CARRIAGE BOLT, TYP.
 12. LOOP CAP
 13. 3/4" DIA. BOLT WITH HEX NUT
 14. LINE POST
 15. 2"x2"x4" GA. CORROSION-RESISTANT FABRIC KNUCKLED TOP & BOTTOM



I SHOVEL TURF EDGE
SCALE: NTS

- NOTES:**
1. MULCH 3" BACK FROM TRUNK
 2. MULCH OVER WEED BARRIER - SEE NOTES SHT. L-L501 DTL. B & C NOTE 7
 3. AMENDED TOPSOIL - SEE NOTES SHT. L-L501 DTL. B & C NOTE 7
 4. UNDISTURBED SUBGRADE
 5. IF THE TREE IS BALLED AND BURLAPPED (OR CONTAINED IN A WIRE BASKET), CUT AND REMOVE THE ROPE, STRING, WIRE, AND/OR WIRE BASKET FROM AROUND THE ENTIRE ROOT BALL
 6. SET ROOTBALL ON UNDISTURBED SUBGRADE AND SUITABLE SOIL THAT MEET TOPSOIL SPECS. ENSURE PROPER DRAINAGE OF TREE PIT PRIOR TO INSTALLATION OF TREE.
 7. TRUNK FLAIR - SET 2" ABOVE FINISH GRADE
 8. MAKE THE HOLE WIDE, AS MUCH AS THREE TIMES THE DIAMETER OF THE ROOT BALL, BUT ONLY AS DEEP AS THE ROOT BALL. BACKFILL WITH 1/2 EXISTING TOPSOIL AND 1/2 AMENDED TOPSOIL - MIX BOTH TOGETHER - SEE NOTES SHT. L-L501 DTL. B & C
 9. REMOVE SOD AT DRIPLINE OF TREE TO FORM TREE HOLE OR A MIN. WIDTH OF 5'-0" DIA.
 10. ROUGHEN SIDES PRIOR TO BACKFILLING. SETTLE W/ WATER IN 12" LIFTS
 11. IF PLANTED IN LATE FALL, WRAP TRUNK, STARTING AT THE BOTTOM TO THE FIRST SET OF BRANCHES. REMOVE THE WRAP SPRING AFTER THE LAST FROST. ONLY WRAP IF SUN HITS ITS TRUNK IN WINTER.
 12. DO NOT PLANT LAWN IN TREE PIT
 13. 3" OR WIDER NYLON WEBBING W/ METAL GROUPETS
 14. 6'-0" x 2" DIA. ROUND WOOD STAKES, TWO PER TREE (THE STAKES SHALL BE PLUMB AND SET AT THE SAME HEIGHT)
 15. DOUBLE STRAND PLUMB NO. 10-GAUGE GALVANIZED STEEL WIRE OR VINYL-COATED STEEL WIRE, DO NOT PULL TAUT
 16. FERTILIZER TABLET - SEE SPECS.
 17. EDGE OF WALK OR CURB
 18. FINISH GRADE

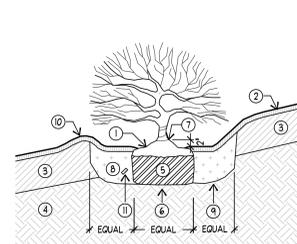
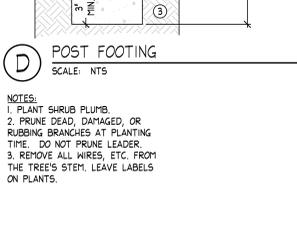
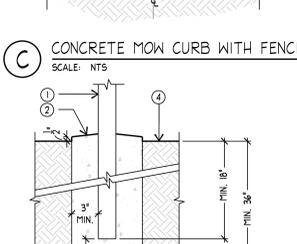
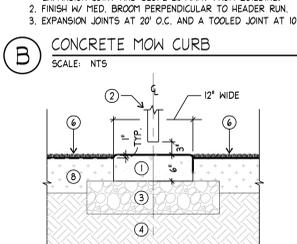
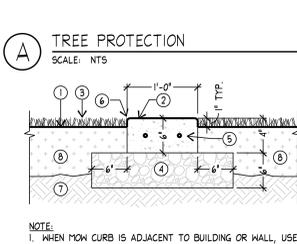
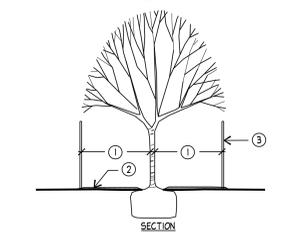
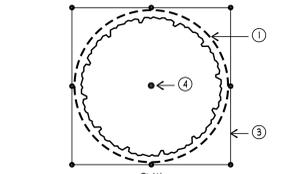
- NOTES:**
1. FINISH GRADE
 2. CONCRETE MONOCURB
 3. TURF
 4. UNTREATED BASE COURSE
 5. REBAR (#2) @ 4" CONTINUOUS 2" CLEARANCE @ SIDES
 6. 1/4" RADIUS, TYPICAL
 7. COMPACTED SUBGRADE
 8. TOPSOIL

- NOTES:**
1. MULCH BACK FROM PLANT
 2. MULCH - SEE NOTES SHT. L-L501 DTL. B & C NOTE 7
 3. AMENDED TOPSOIL - SEE NOTES SHT. L-L501 DTL. B & C NOTE 7
 4. UNDISTURBED SUBGRADE
 5. IF PLANTS ARE NOT-BOUND AT PLANTING TIME, LOOSEN THE ROOTS AROUND THE BOTTOM AND SIDES OF THE ROOT BALL
 6. PLANT
 7. BE SURE THE CROWN OF THE PLANT (THE POINT WHERE ROOTS AND TOP JOIN) IS 1" ABOVE THE SOIL SURFACE
 8. PLANT SPACING VARIES - REFER TO PLANT SCHEDULE OR PLAN
 9. CENTER OF PLANT
 10. FERTILIZER TABLET - SEE SPECS.

- NOTES:**
1. PRUNE DEAD, DAMAGED, OR RUBBING BRANCHES AT PLANTING TIME.
 2. REMOVE ALL WIRES, ETC. FROM THE TREE'S STEM. LEAVE LABELS ON PLANTS.
 3. WATER PLANTS THOROUGHLY FOLLOWING PLANTING TO SETTLE THE SOIL AROUND THE ROOTS.

- NOTES:**
1. TURF EDGE
 2. TREE TRUNK
 3. ROOTBALL
 4. STAKING SYSTEM - LOCATE STAKES WITHIN THE TURF EDGE
 5. MULCH AS SPECIFIED
 6. ACCENT LIGHTING - IF USED, LOCATE ACCENT LIGHTS WITHIN THE TURF EDGE
 7. REMOVE SOD AT DRIPLINE OF TREE - MIN. WIDTH OF 3'-0" DIA.

- NOTES:**
1. POST
 2. CONCRETE FOOTING SLOPED AROUND POST
 3. UNDISTURBED SUBGRADE
 4. TOP OF FINISH GRADE



E SHRUB
SCALE: NTS

- NOTES:**
1. PROTECTIVE ROOT ZONE (PRZ) - TO CALCULATE CRITICAL ROOT RADIUS, MEASURE THE TREE'S DIAMETER (DBH) 4.5' ABOVE THE GROUND. MEASURE IN INCHES. FOR EACH INCH, ALLOW FOR 1 TO 1.5' OF CRITICAL ROOT RADIUS. IF A TREE'S DBH IS TEN INCHES, ITS CRITICAL ROOT RADIUS IS 10 TO 15'
 2. CONTRACTOR TO INSTALL & MAINTAIN 6" OF TEMPORARY BARK MULCH WITHIN THE PRZ FOR PROPOSED TREES TO BE PROTECTED IN PLACE. REMOVE & REPLACE PRIOR TO FINAL INSTALLATION OF PROPOSED MULCHES AND SURFACING.
 3. TREE PROTECTION BARRIER - SEE SPECIFICATIONS. REVIEW WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

- NOTES:**
1. IF THERE IS TRENCHING WITHIN THE PRZ, TRENCHES SHALL ONLY BE DUG ON ONE SIDE OF THE TREE. SHALL BE DONE ONLY DONE WITH APPROVAL FROM THE OWNER'S REPRESENTATIVE. HAND EXCAVATION ONLY.
 2. DO NOT LOCATE ANY MATERIALS OR LOCATE ANY HEAVY MACHINERY WITHIN THE PRZ. THERE SHALL BE NO TRAFFIC ALLOWED WITHIN THE PRZ.
 3. ONLY MOVE MATERIAL WITH THE PERMISSION OF THE OWNER'S REPRESENTATIVE.

- NOTES:**
1. FINISH GRADE
 2. CONCRETE MONOCURB
 3. TURF
 4. UNTREATED BASE COURSE
 5. REBAR (#2) @ 4" CONTINUOUS 2" CLEARANCE @ SIDES
 6. 1/4" RADIUS, TYPICAL
 7. COMPACTED SUBGRADE
 8. TOPSOIL

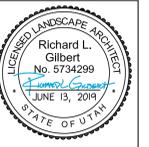
- NOTES:**
1. CONCRETE MONOCURB
 2. FENCE - REFER TO SHT. L-L501 DTL. B & C NOTE 7
 3. UNTREATED BASE COURSE
 4. COMPACTED SUBGRADE
 5. EXTEND UNTREATED BASE COURSE (FULL DEPTH) MIN. 4" BEYOND MOW CURB
 6. LANDSCAPE AREA - REFER TO PLANTING PLANS
 7. CONCRETE PAVING
 8. TOPSOIL - SEE SPECS

- NOTES:**
1. POST
 2. CONCRETE FOOTING SLOPED AROUND POST
 3. UNDISTURBED SUBGRADE
 4. TOP OF FINISH GRADE

- NOTES:**
1. MULCH 3" BACK FROM TRUNK
 2. MULCH - SEE NOTES SHT. L-L501 DTL. B & C NOTE 7
 3. AMENDED TOPSOIL - SEE NOTES SHT. L-L501 DTL. B & C NOTE 7
 4. UNDISTURBED SUBGRADE
 5. IF THE SHRUB IS BALLED AND BURLAPPED (OR CONTAINED IN A WIRE BASKET), CUT AND REMOVE THE ROPE, STRING, WIRE, AND/OR WIRE BASKET FROM AROUND THE ENTIRE ROOT BALL
 6. SET ROOTBALL ON UNDISTURBED SUBGRADE AND SUITABLE SOIL THAT MEET TOPSOIL SPECS.
 7. TRUNK FLAIR - SET 2" ABOVE FINISH GRADE
 8. MAKE THE HOLE WIDE, AS MUCH AS THREE TIMES THE DIAMETER OF THE ROOT BALL, BUT ONLY AS DEEP AS THE ROOT BALL. BACKFILL WITH 1/2 EXISTING TOPSOIL AND 1/2 AMENDED TOPSOIL - MIX BOTH TOGETHER - SEE NOTES SHT. L-L501 DTL. B & C
 9. ROUGHEN SIDES PRIOR TO BACKFILLING. SETTLE W/ WATER IN 12" LIFTS
 10. FERTILIZER TABLET - SEE SPECS.

- NOTES:**
1. TURF
 2. MULCH AS SPECIFIED
 3. SHRUB BED
 4. TOPSOIL MIX LAYER
 5. SHOVEL EDGE
 6. SUBGRADE





TEL: 801.521.9111 FAX: 801.521.9158

IRRIGATION PLAN

SALT LAKE CITY, UTAH 84101

CHANGE ORDER 3 07/25/19

171 WEST PIERPONT AVE.

WEBER COUNTY MAIN LIBRARY
ODGEN VALLEY BRANCH

PHASE 2 IMPROVEMENTS
131 SOUTH 7400 EAST HUNTSVILLE, UTAH

DESIGNED BY:
EP
DESIGNED BY:
EP

DATE:
08.13.2019

PROJECT NO.:
17110

PRESCOTT MUIR ARCHITECT

SHEET NO.
LR101

IRRIGATION NOTES

- IT IS THE INTENT OF THESE IRRIGATION PLANS TO PROVIDE THE CONTRACTOR WITH CONSTRUCTION INFORMATION THAT WILL ENABLE HIM TO INSTALL A COMPLETE AND OPERATIONAL IRRIGATION SYSTEM.
- THE CONTRACTOR SHALL VERIFY THE AVAILABLE WATER PRESSURE ON THE SITE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCES BETWEEN THE WATER PRESSURE SHOWN ON THE DRAWINGS AND THE ACTUAL PRESSURE READINGS AT THE POINT OF CONNECTION. IN THE EVENT THE PRESSURE DIFFERENCES ARE NOT REPORTED PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY. CONTRACTOR TO MAINTAIN OPERATING PRESSURE FOR EACH ZONE TO THE LAST HEAD.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, STRUCTURES, WALKS, AND UTILITIES. THE IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED BY HIS WORK. HE SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE, SLEEVES AND LATERALS THROUGH WALLS AND UNDER PAVING.
- DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS OR GRADING DIFFERENCES MAY NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- THIS DESIGN IS DIAGRAMMATIC, ALL IRRIGATION EQUIPMENT SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHEREVER POSSIBLE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND/OR REPLACING ANY SITE ITEM DAMAGED DURING THE COURSE OF CONSTRUCTION.
- THE CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS AND VALVES FOR OPTIMUM COVERAGE. INSTALL ALL SPRINKLER HEADS WITH NOZZLES OF THE APPROPRIATE DEGREE AND RADIUS FOR THE AREA TO BE COVERED. ADJUST ALL NOZZLES TO ELIMINATE SPRAYING ONTO WALKS, BUILDINGS, ETC.
- ALL PIPE INSTALLED IN PAVING SHALL BE SLEEVED PER THE LEGEND.
- INSTALL CHECK VALVE PER LEGEND AS NEEDED TO PREVENT HEAD DRAINAGE FROM BUBBLING, SPRAY HEADS AND DRIP EMITTERS. DIAMETER.
- MINIMUM SIZE PIPE ON ANY CIRCUIT IS 3/4"
- CONTRACTOR TO INSTALL MANUAL DRAIN VALVES AT ALL LOW POINTS ON MAINLINE (SEE DETAIL).
- PROVIDE AND INSTALL ALL THE MANUFACTURER'S RECOMMENDED SURGE AND LIGHTNING PROTECTION EQUIPMENT ON CONTROLLERS.

- EXISTING IRRIGATION SYSTEM:**
- THE CONTRACTOR SHALL MAINTAIN THE EXISTING IRRIGATION SYSTEM IN GOOD WORKING CONDITION TO ENSURE THAT EXISTING PLANT MATERIAL RECEIVES THE PROPER AMOUNT OF WATER DURING ALL PHASES OF CONSTRUCTION.
 - THE CONTRACTOR SHALL MAKE MODIFICATIONS TO THE EXISTING IRRIGATION SYSTEM AS REQUIRED WHERE EXISTING IRRIGATION ZONES WILL BE INTERRUPTED DUE TO PROPOSED CONSTRUCTION.
 - MODIFICATIONS TO THE EXISTING IRRIGATION SYSTEM MAY INCLUDE BUT IS NOT LIMITED TO: REROUTING EXISTING IRRIGATION MAINLINES AND LATERAL LINES, RELOCATING EXISTING IRRIGATION VALVES AND CONTROL WIRING, AND RELOCATING EXISTING IRRIGATION HEADS.
 - THE CONTRACTOR MAY ALSO BE REQUIRED TO HAND-WATER EXISTING PLANT MATERIAL AS REQUIRED IF THE MODIFICATIONS TO THE EXISTING IRRIGATION SYSTEM AS PREVIOUSLY LISTED ARE NOT MADE.

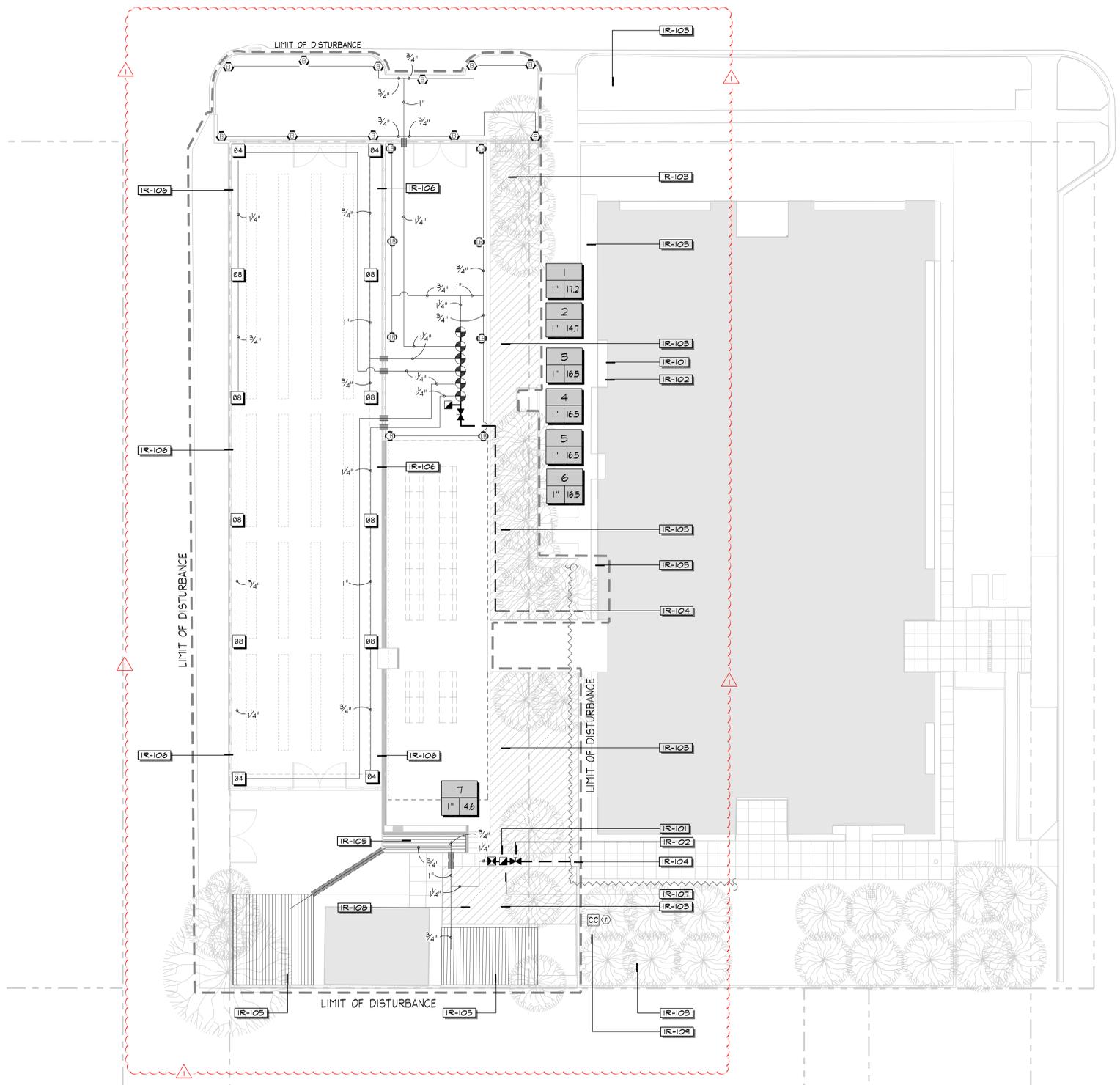
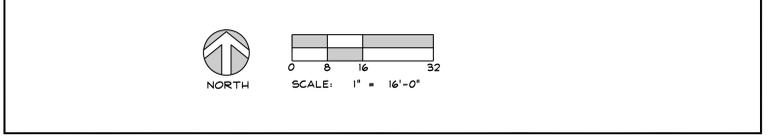
REFERENCE NOTES

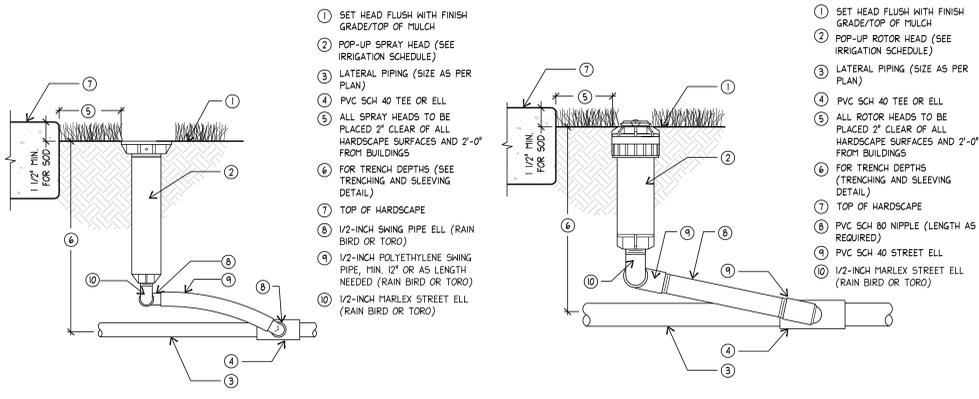
- SYMBOL DESCRIPTION**
- IR-101** LOCATE VALVE BOXES IN SHRUB BEDS IF POSSIBLE AND ALIGN VALVE BOXES WITHIN PLANTING AREAS & ALIGN WITH EDGE OF PAVEMENT.
 - IR-102** VALVE BOX LIDS SHALL MATCH SURROUNDING MULCH (REFER TO SPECS.), ALIGN VALVE BOXES WITHIN SHRUB BEDS & ALIGN WITH EDGE OF PAVEMENT, TYP.
 - IR-103** PROTECT IN PLACE EXISTING IRRIGATION SYSTEM-REPAIR EXISTING IRRIGATION AS NECESSARY FOR FULL IRRIGATION COVERAGE. MATCH EXISTING IRRIGATION SYSTEM HEADS AND COVERAGE & ENSURE THAT WATER SUPPLY TO EXISTING PLANT MATERIAL IS UNINTERRUPTED DURING ALL PHASES OF CONSTRUCTION. REFER TO SHT. L-RIOI DTL. A EXISTING IRRIGATION SYSTEM NOTES.
 - IR-104** CONNECT TO EXISTING IRRIGATION MAINLINE AND CONTROLLER WIRE - FIELD VERIFY
 - IR-105** COORDINATE LAYOUT OF IRRIGATION DRIPPERLINE PRIOR TO PLACEMENT OF PROPOSED PLANT MATERIAL, TYP.
 - IR-106** DO NOT PLACE IRRIGATION PIPING OVER LEACH FIELD. COORDINATE WITH OTHER DISCIPLINES
 - IR-107** IRRIGATION EQUIPMENT SHOWN OUTSIDE PLANTING AREAS FOR GRAPHIC CLARITY ONLY. EQUIPMENT SHALL BE LOCATED INSIDE PLANTING AREAS, TYP.
 - IR-108** REPAIR/ADJUST EXISTING IRRIGATION HEADS TO ACCOMMODATE PROPOSED IMPROVEMENTS - MATCH EXISTING
 - IR-109** REPLACE EXISTING IRRIGATION CONTROLLER - VERIFY EXACT LOCATION. CONNECT EXISTING PROPOSED AND EXISTING CONTROL WIRES TO NEW CONTROLLER. CONNECT EXISTING POWER TO PROPOSED CONTROLLER. COORDINATE WITH OTHER DISCIPLINES.

IRRIGATION VALVE SCHEDULE

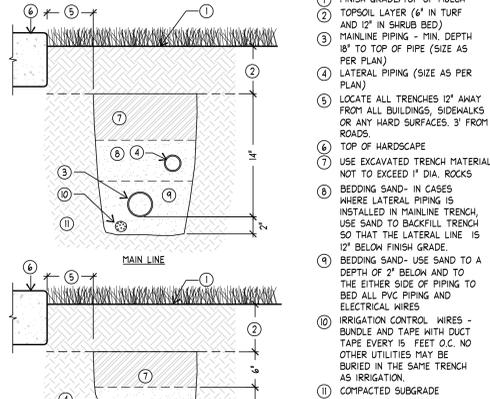
| NUMBER | MODEL | SIZE | TYPE | GPM | DESIGN PSI | PSI | PRECIP. |
|--------|---------------------------|------|-------------------|-------|------------|-------|-----------|
| 1 | Rain Bird PESB-PRS-D | 1" | Shrub Rotary | 17.16 | 40 | 44.27 | 0.57 in/h |
| 2 | Rain Bird PESB-PRS-D | 1" | Turf Rotary | 14.71 | 30 | 34.41 | 0.47 in/h |
| 3 | Rain Bird PESB-PRS-D | 1" | Turf Rotator | 16.50 | 40 | 44.29 | 0.71 in/h |
| 4 | Rain Bird PESB-PRS-D | 1" | Turf Rotator | 16.50 | 40 | 47.28 | 0.72 in/h |
| 5 | Rain Bird PESB-PRS-D | 1" | Turf Rotator | 16.50 | 40 | 48.27 | 0.62 in/h |
| 6 | Rain Bird PESB-PRS-D | 1" | Turf Rotator | 16.50 | 40 | 45.30 | 0.66 in/h |
| 7 | Rain Bird XEZ-100-PRB-COM | 1" | Area for Dripline | 14.62 | 30 | 46.09 | 1.01 in/h |

NORTH ARROW / SCALE

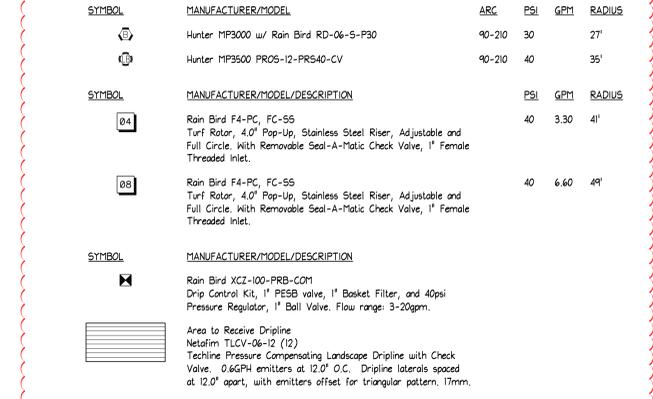




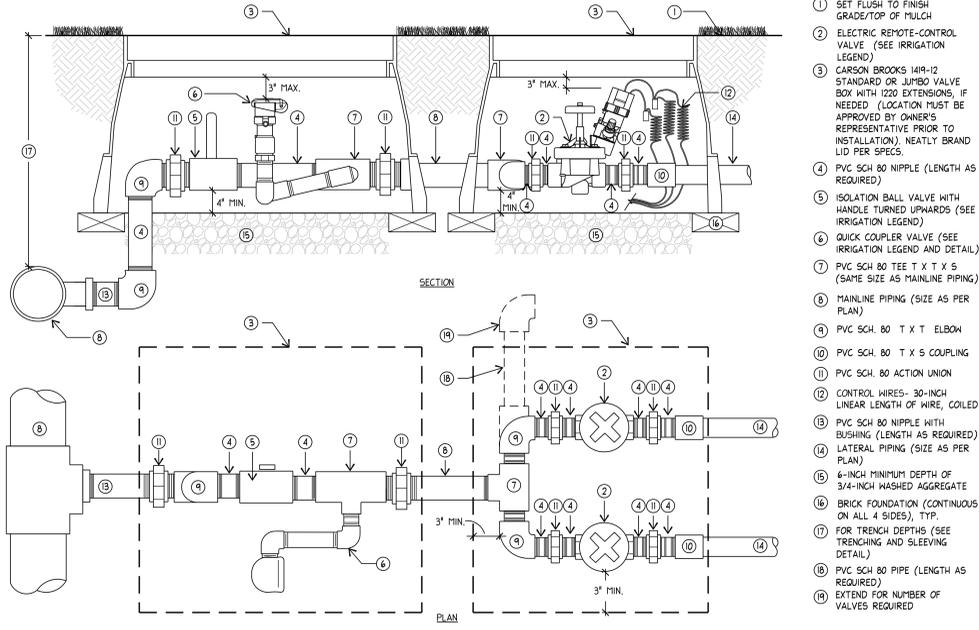
J POP-UP SPRAY HEAD
SCALE: NTS SECTION



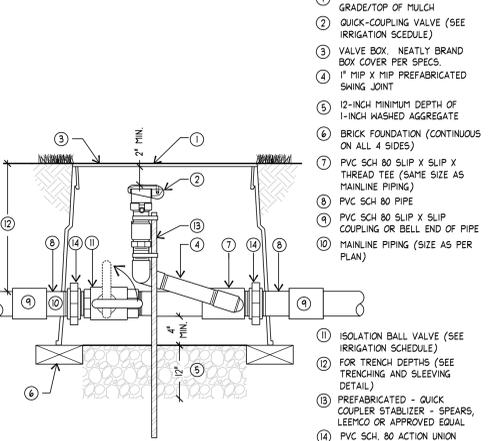
H POP-UP ROTOR HEAD
SCALE: NTS SECTION



D TRENCHING
SCALE: NTS SECTION



K ELECTRIC REMOTE-CONTROL VALVE ASSEMBLY
SCALE: NTS SECTION/PLAN



E QUICK COUPLER VALVE ASSEMBLY
SCALE: NTS SECTION

| SYMBOL | MANUFACTURER/MODEL | ARC | PSI | GPM | RADIUS |
|--------|--|--------|-----|-----|--------|
| Ⓜ | Hunter MP3000 w/ Rain Bird RD-06-S-P30 | 90-210 | 30 | | 27' |
| Ⓜ | Hunter MP3500 PROS-12-PR540-CV | 90-210 | 40 | | 35' |

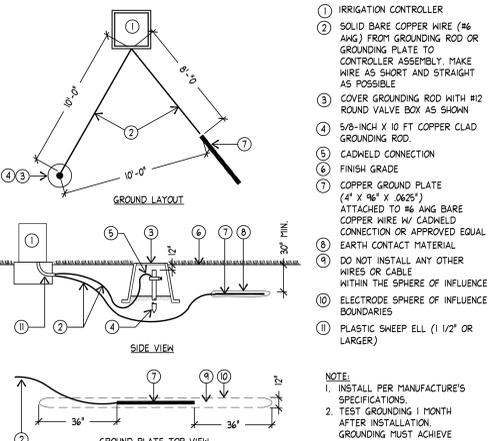
| SYMBOL | MANUFACTURER/DESCRIPTION | PSI | GPM | RADIUS |
|--------|---|-----|------|--------|
| Ⓜ | Rain Bird F4-PC, FC-55 Turf Rotor, 4.0" Pop-Up, Stainless Steel Riser, Adjustable and Full Circle, With Removable Seal-A-Matic Check Valve, 1" Female Threaded Inlet. | 40 | 3.30 | 41' |
| Ⓜ | Rain Bird F4-PC, FC-55 Turf Rotor, 4.0" Pop-Up, Stainless Steel Riser, Adjustable and Full Circle, With Removable Seal-A-Matic Check Valve, 1" Female Threaded Inlet. | 40 | 6.60 | 49' |

| SYMBOL | MANUFACTURER/DESCRIPTION |
|--------|---|
| Ⓜ | Rain Bird XC2-100-PRB-C01 Drip Control Kit, 1" PESB valves, 1" Basket Filter, and 40psi Pressure Regulator, 1" Ball Valve, Flow range: 3-20gpm. |
| Ⓜ | Area to Receive Dripline Netafim TLCV-06-12 (12" Techni-Pressure Compensating Landscape Dripline with Check Valve, 0.6GPH emitters at 12.0' O.C., Dripline laterals spaced at 12.0' apart, with emitters offset for triangular pattern, 17mm. |

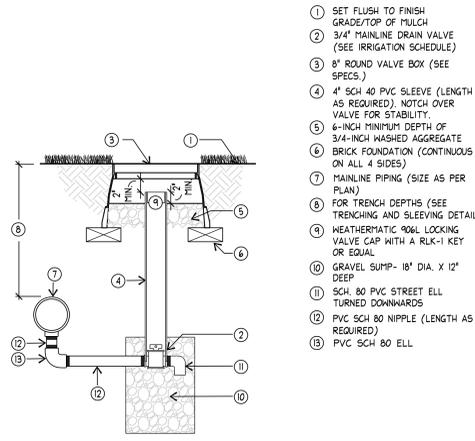
| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION |
|--------|---|
| Ⓜ | Rain Bird PESB-PRS-D 1" 1-1/2", 2" Plastic Industrial Valves, Low Flow Operating Capability, Globe Configuration, With Pressure Regulating Module, and Scrubber Technology for Reliable Performance in Dirty Water Irrigation Applications. |
| Ⓜ | Rain Bird 44RC 1" Quick Coupler Valve, two piece body, rubber cover |
| Ⓜ | Apollo 77C Isolation valve. Sized equal to pipe size. Isolation valves shall be used at all valve manifolds and isolation points. |
| Ⓜ | Hunter ACC-5000-55 30 Station Outdoor Modular Controller, With three ACM-600 module, High-End Commercial Use, Stainless Steel Cabinet. |
| Ⓜ | Hunter ROAMXL-KIT Transmitter and Receiver, Room Remote allows for controller operation up to 2 miles. Contractor Large-Scale Sites, Works with Hunter ACC, 1-Care, Pro-C, PCC, and X-Care Controllers. SmartPort wiring harness included. |

| SYMBOL | DESCRIPTION |
|--------|---|
| --- | Irrigation Lateral Line: PVC Schedule 40 |
| --- | Irrigation Mainline: PVC Schedule 40 |
| --- | Irrigation Mainline: PVC Schedule 40 - Existing - Field Verify Location and Size (1-1/2") |
| --- | Pipe Sleeve: PVC Class 200 SDR 21 |

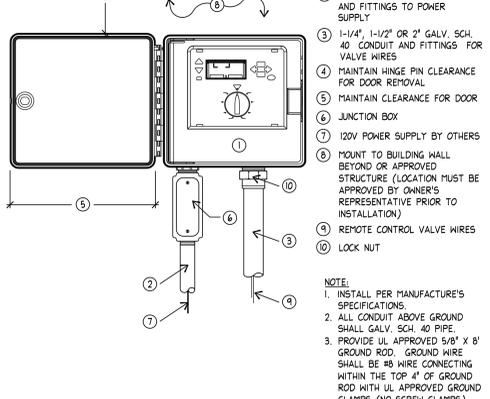
A IRRIGATION SCHEDULE
SCALE: NTS SECTION



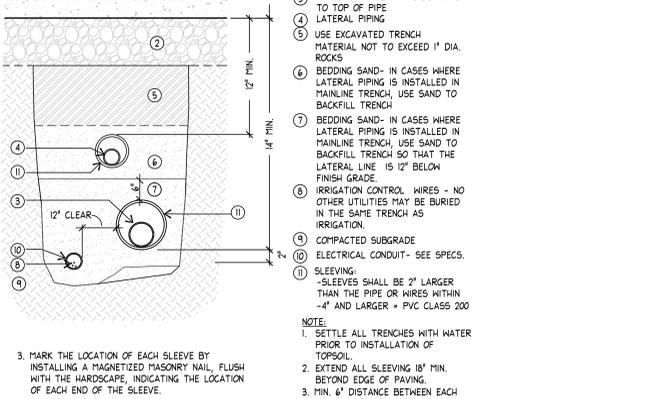
L GROUNDING GRID Y DESIGN LAYOUT
SCALE: NTS SECTION



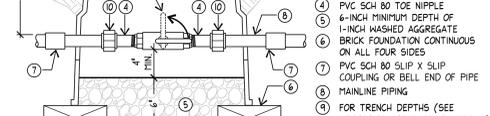
I MAINLINE DRAIN ASSEMBLY
SCALE: NTS SECTION



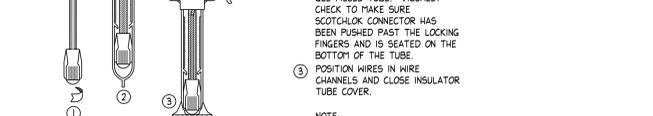
F IRRIGATION CONTROLLER-WALL MOUNTED
SCALE: NTS ELEVATION



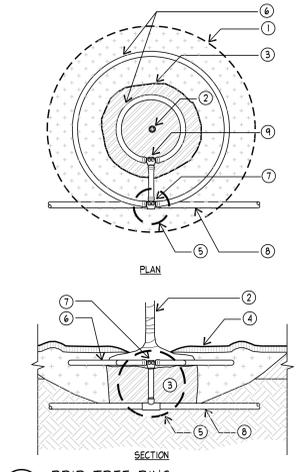
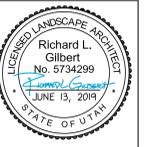
B SLEEVING
SCALE: NTS SECTION



G ISOLATION BALL VALVE ASSEMBLY
SCALE: NTS SECTION

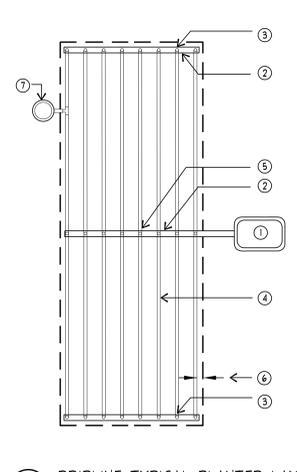


C 3M DBY DIRECT BURY SPLICE KIT
SCALE: NTS SECTION



- 1 TURF EDGE (IF IN TURF)
- 2 TREE /SHRUB TRUNK
- 3 ROOTBALL
- 4 MULCH- SEE LANDSCAPE DWGS.
- 5 TECHLINE START CONNECTION
- 6 TECHLINE TUBING
- 7 TECHLINE 180 3-WAY TEE
- 8 LATERAL PIPING- POLY PIPE OR PVC PIPE (SIZE AS PER PLAN)
- 9 TECHLINE 3-WAY TEE

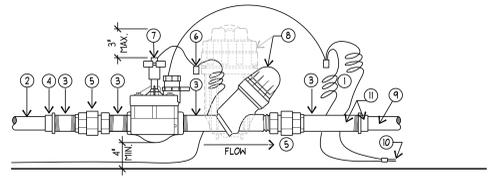
F DRIP TREE RING
SCALE: NTS
PLAN/SECTION



- 1 ELECTRIC REMOTE CONTROL VALVE WITH DISC FILTER AND PRV REFER TO IRRIGATION SCHEDULE
- 2 DRIPLINE START CONNECTION MALE ADAPTER L-1802
- 3 1" PVC EXHAUST HEADER OR FOOTER, NO SMALLER THAN 1"
- 4 DRIPLINE TUBING - REFER TO IRRIGATION SCHEDULE TYPE AND SPACING
- 5 1" PVC SUPPLY EXHAUST PIPE, NO SMALLER THAN 1"
- 6 PERIMETER LATERALS 2" TO 4" FROM EDGE
- 7 LINE FLUSHING VALVE PLACE MANUAL LINE FLUSHING VALVES AT EACH DEAD END, AND LOW POINT IN THE SYSTEM.

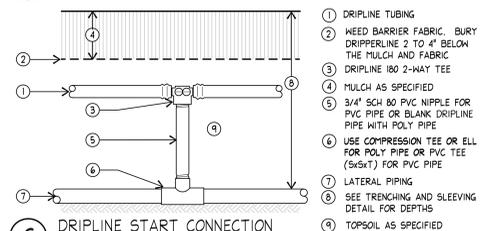
NOTES:
1. SOIL STAPLES- ANCHOR THE DRIP TUBING WITH STAINLESS STEEL SOIL STAPLES EVERY 4 FEET. USE TWO SOIL STAPLES AT EACH TEE, ELBOW OR CROSS.

A DRIPLINE TYPICAL PLANTER LAYOUT
SCALE: NTS
PLAN

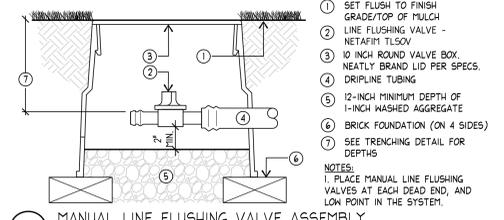


- NOTES:
1. LOCATE ALL VALVE BOXES IN PLANTER BEDS UNLESS OTHERWISE INDICATED.
2. ALL FITTINGS AND NIPPLES IN MANIFOLD SHALL BE SCH. 80 THREADED PVC USING TEFLON TAPE.
3. VALVE MANIFOLD TO BE INSTALLED GOING AWAY FROM MAIN SUPPLY LINE. MINIMUM OF 1 FOOT BEFORE CHANGE IN DIRECTION.
4. CUT ALL VALVE BOXES AS REQUIRED SO BOXES DO NOT SIT ON PIPING.
- 1 CONTROL WIRES- 30-INCH LINEAR LENGTH OF WIRE, COILED
 - 2 MAINLINE PIPING (SIZE AS PER PLAN)
 - 3 PVC SCH. 80 NIPPLE, LENGTH AS REQUIRED (TYP.)
 - 4 THREADED NIPPLE WITH BUSHING
 - 5 PVC SCH. 80 UNION
 - 6 WATER TIGHT CONNECTORS (3M DBY ONLY)
 - 7 ELECTRIC REMOTE-CONTROL VALVE W/ FILTER AND PRV (SEE IRRIGATION LEGEND)
 - 8 FILTER (SEE IRRIGATION LEGEND)
 - 9 LATERAL PIPING (SIZE AS PER PLAN)
 - 10 CONTROL WIRES

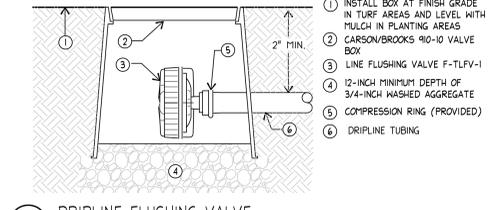
B ELECTRIC REMOTE CONTROL VALVE W/ DISC FILTER
SCALE: NTS
SECTION



C DRIPLINE START CONNECTION
SCALE: NTS
SECTION



D MANUAL LINE FLUSHING VALVE ASSEMBLY
SCALE: NTS
SECTION



E DRIPLINE FLUSHING VALVE
SCALE: NTS
SECTION

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VICINITY PLAN

NOT TO SCALE

| SYMBOLS | | | |
|---------|---|--|---|
| | INDICATES WALL TYPE | | WINDOW NUMBER |
| | DOOR NUMBER | | INDICATES GLASS TYPE |
| | INDICATES ELEVATION NO. INDICATES PAGE NO. | | DIMENSION TO FACE OF GYP. BD., CONC. OR MASONRY |
| | INDICATES OBJECT INDICATES ELEVATION | | DIMENSION TO CENTER LINE |
| | INDICATES FINISHED FLOOR TYPE | | RIGID INSULATION |
| | INDICATES GRID NUMBER | | BATT INSULATION |
| | KEYNOTE | | FINISHED WOOD |
| | INDICATES ROOM NAME INDICATES ROOM NUMBER | | BLOCKING |
| | REVISIONS | | CONTINUOUS WOOD |
| | INDICATES SECTION NO. INDICATES PAGE NO. | | METAL OR METAL STUDS |
| | INDICATES DETAIL NO. INDICATES PAGE NO. | | WOOD WALL |
| | GLAZED MASONRY WALL | | MASONRY WALL |

| ABBREVIATIONS | | | |
|---------------|--|--------|-------------------------------|
| A.B. | ANCHOR BOLT | HDR. | HEADER |
| A.C. | ASPHALTIC CONCRETE | INT. | INTERIOR |
| ADJ. | ADJUSTABLE | M.O. | MASONRY OPENING |
| B.O. | BOTTOM OF | M.R. | MOISTURE RESISTANT |
| C.B. | CATCH BASIN | N.I.C. | NOT IN CONTRACT |
| C.J. | CONTROL JOINT | OPP. | OPOSITE |
| CONC. | CONCRETE | P.C.J. | PLASTER CONSTRUCTION JOINT |
| CONT. | CONTINUOUS | R.D. | ROOF DRAIN |
| D.F. | DRINKING FOUNTAIN | SIM. | SIMILAR |
| DIF. | DIFFUSER | S.N.D. | SANITARY NAPKIN DISPOSAL |
| E.I.F.S. | EXTERIOR INSULATION AND FINISH SYSTEM | STL. | STEEL |
| E.J. | EXPANSION JOINT | S.S. | STAINLESS STEEL |
| EL. | ELEVATION | T.A. | TOP OF ASPHALT |
| EQ. | EQUAL | T.G. | TOP OF GRATE |
| EXIST. | EXISTING | T.W. | TOP OF WALK |
| EXT. | EXTERIOR | T.O.C. | TOP OF CONCRETE |
| F.D. | FLOOR DRAIN | T.O.M. | TOP OF MASONRY |
| F.F. | FINISH FLOOR | T.O.S. | TOP OF STEEL |
| F.O. | FACE OF | T.O.W. | TOP OF WALL |
| F.O.M. | FACE OF MASONRY | TYP. | TYPICAL |
| F.S.R. | FLEXIBLE SHEET ROOFING | VIF. | VERIFY IN FIELD |
| F.T. | FIRE TREATED | U.N.O. | UNLESS OTHERWISE NOTED |
| GYP.BD. | GYPSSUM BOARD | W/ | WITH |

| INDEX OF DRAWINGS | |
|------------------------|---|
| NO. | SHEET TITLE |
| PHASE 2: ARCHITECTURAL | |
| T1 | TITLE SHEET |
| ELECTRICAL | |
| EJ1.2 | PAVILION SOUND PLAN, SCHEDULES AND DETAILS |
| TA0.1 | AV SYSTEMS SCHEDULES, NOTES, DETAILS AND DIAGRAMS |

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TITLE SHEET

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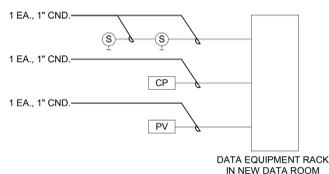


2 PAVILION SOUND ISOMETRIC PLAN

SCALE:

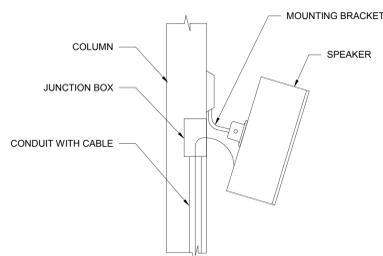
AUDIO-VIDEO ROUGH-IN SYSTEMS SCHEDULE

| SYMBOL | DESCRIPTION | MOUNTING | SPECIAL INSTRUCTIONS |
|--------|--|--|---|
| CP | NEMA RATED WEATHERPROOF 2-GANG JUNCTION BOX | ELECTRICAL OUTLET HEIGHT | |
| PV | NEMA 4 RATED WEATHERPROOF BOX, FSR QWB-CP1-W-WHT | ELECTRICAL SWITCH HEIGHT | |
| (S) | SPEAKER LOCATION, 1-GANG JUNCTION BOX | 12" BELOW ROOF | |
| | CONDUIT, 3/4" MINIMUM | CONCEALED BEHIND FINISHED SURFACES, UNLESS OTHERWISE NOTED | REFER TO RISER DIAGRAMS FOR EXACT SIZES & QUANTITIES. |



4 PAVILION AUDIO SYSTEM CONDUIT RISER DIAGRAM

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

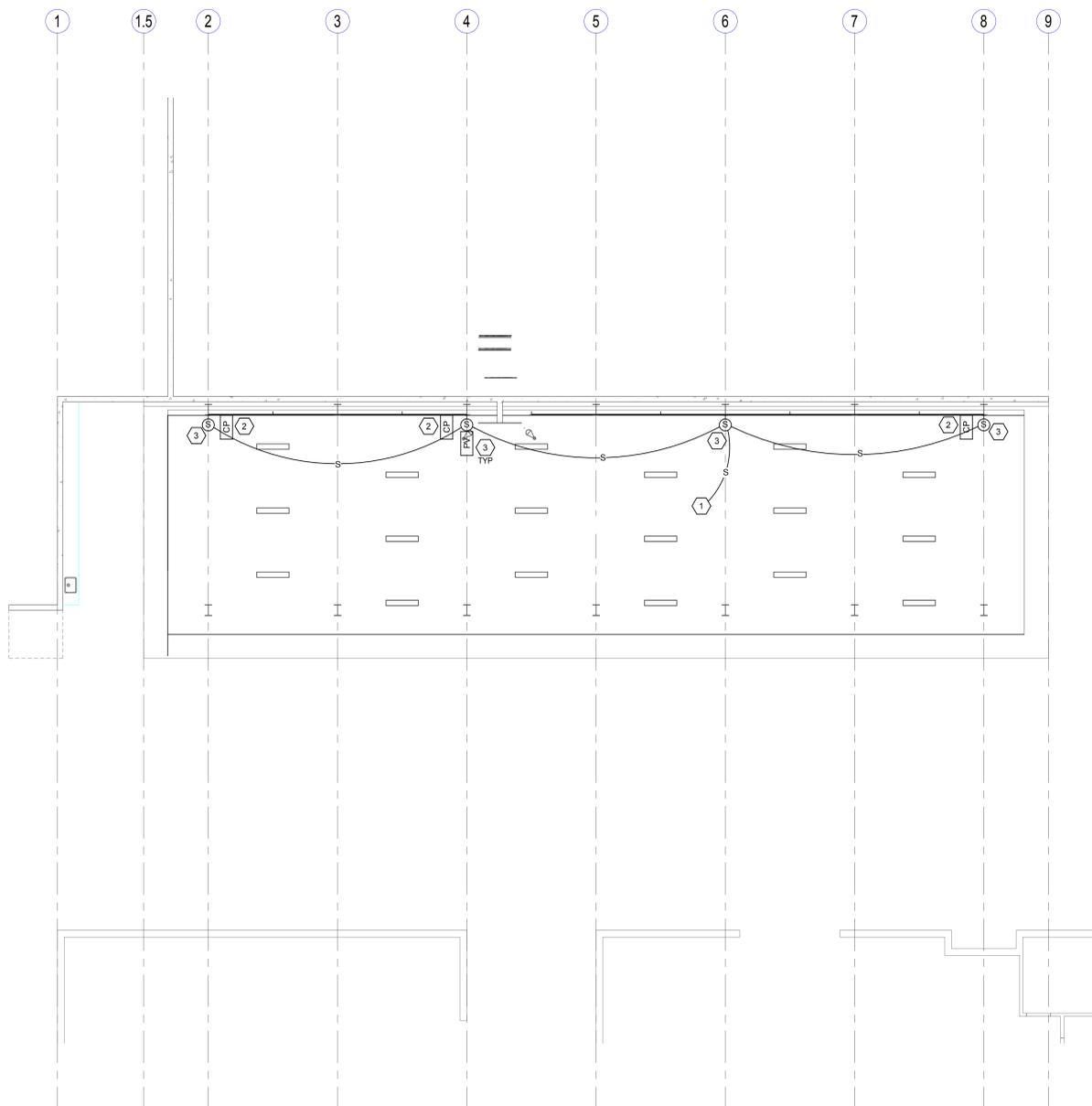


3 PAVILION SPEAKER MOUNTING DETAIL

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

1 PAVILION SOUND PLAN

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



GENERAL SHEET NOTES

- COORDINATE EXACT LOCATION OF JUNCTION BOXES WITH ARCHITECT.
- MAINTAIN MAXIMUM SEPARATION BETWEEN AV SYSTEM CONDUIT AND ALL POWER CONDUIT. MINIMUM SEPARATION REQUIREMENT IS 24".
- INSTALL NYLON PULL STRINGS IN ALL AV SYSTEM CONDUIT.
- INSTALL ALL EQUIPMENT IN COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, SEISMIC CODES, AND INDUSTRY WIDE ACCEPTED RIGGING PRACTICES. SUPPORT EQUIPMENT WEIGHT FROM STRUCTURE. DURING THE SUBMITTAL PROCESS, PROVIDE SHOP DRAWINGS WHICH DETAIL PROPOSED MOUNTING FOR ALL SUCH EQUIPMENT.
- ALL CONDUIT FOR AV ROUGH-IN SHALL BE EMT.
- ALL AV CONDUITS SHALL BE INSTALLED USING SHORTEST RUNS POSSIBLE. THERE SHOULD BE NO UNNECESSARY BENDS IN CONDUIT RUNS.
- CONDUIT AND JUNCTION BOXES SHOWN ON RISER DIAGRAMS ARE TYPICAL FOR EACH DEVICE IN ROOM.

SHEET KEYNOTES

- PROVIDE 1" CONDUIT TO NEW DATA ROOM. REFER TO POWER SHEET FOR LOCATION.
- CP JUNCTION BOX AND CONDUIT TO BE RECESSED IN CONCRETE RETAINING WALL.
- JUNCTION BOX FOR PV AND SPEAKERS TO BE MOUNTED ON INSIDE PORTION OF I-BEAM. PAINT CONDUIT TO MATCH SURROUNDING SURFACE.



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PAVILION SOUND PLAN, SCHEDULES AND DETAILS



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SHEET NO. TA0.1



GENERAL AUDIO-VIDEO NOTES

- CONDUCT AN RF FREQUENCY AUDIT OF THE SITE PRIOR TO SELECTION OF WIRELESS RF OPERATING FREQUENCIES. SELECT FREQUENCIES TO ASSURE INTERFERENCE FREE OPERATION. INSTALL ANTENNAS/TRANSCIEVERS OUTSIDE OF THE EQUIPMENT RACK, AT AN ARCHITECT APPROVED LOCATION, WHERE THE BEST SYSTEM PERFORMANCE IS ACHIEVED.
- INSTALL/SUSPEND ALL EQUIPMENT IN COMPLIANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS, SEISMIC SPECIFICATION SECTION, AND INDUSTRY WIDE ACCEPTED RIGGING PRACTICES. SUPPORT EQUIPMENT WEIGHT FROM STRUCTURE ABOVE CEILING. DURING THE SUBMITTAL PROCESS, PROVIDE SHOP DRAWINGS WHICH DETAIL PROPOSED MOUNTING FOR ALL SUCH EQUIPMENT.
- PROVIDE MANUFACTURER RECOMMENDED POWER SUPPLIES AND/OR TRANSFORMERS FOR ALL SPECIFIED EQUIPMENT.
- FURNISH AND INSTALL ALL CABLE AND CONNECTORS REQUIRED FOR ALL AUDIO AND VIDEO SYSTEMS TO COMPLETE MANUFACTURER RECOMMENDED CABLE TO EQUIPMENT TERMINATION TO FORM A COMPLETE AND FULLY FUNCTIONAL SYSTEM AS SHOWN. SELECT CONNECTORS WHICH PASS FULL BANDWIDTH CAPABILITY OF SPECIFIED CABLE. PROVIDE CABLE TYPES AS IDENTIFIED IN THE AUDIO/VIDEO CABLE SCHEDULE.
- PROVIDE PATCH CABLES TO FULLY INTERCONNECT ALL SPECIFIED EQUIPMENT WITH THE SPECIFIED CONNECTION PANELS, SYSTEM INTERFACES, AND MISCELLANEOUS EQUIPMENT.
- PROVIDE MANUFACTURER RECOMMENDED, AND INDUSTRY STANDARD, SIGNAL LEVELS AND COMMUNICATION PROTOCOLS THROUGHOUT ENTIRE SYSTEM REGARDLESS OF CABLE LENGTHS. PROVIDE ALL REQUIRED DISTRIBUTION AND PROCESSING EQUIPMENT, INCLUDING BUT NOT LIMITED TO SIGNAL DISTRIBUTION AMPLIFIERS, LINE AMPLIFIERS, LINE DRIVERS, EQUALIZING AMPLIFIERS, GROUND/HUM ISOLATORS, MATCHING/ISOLATION TRANSFORMERS, CONTROL BUS DEVICES, COMMUNICATIONS CONVERTERS, ETC., WHETHER SHOWN IN THE SINGLE LINE DIAGRAMS OR NOT.
- PROVIDE PRE-MANUFACTURED ADAPTER CABLES WHERE REQUIRED FOR MATING CABLE TO CONNECTORS. THESE WILL INCLUDE, BUT ARE NOT LIMITED TO, ADAPTERS WHICH MATE STEREO AUDIO TO MONO AUDIO, CONNECTORS, AND OTHER SIMILAR TERMINATION AND MATING REQUIREMENTS.
- PROVIDE RACK MOUNT KITS FOR ALL RACK MOUNTED EQUIPMENT, WHERE MANUFACTURERS DO NOT PROVIDE RACK MOUNT KITS, PROVIDE CUSTOM RACK MOUNT KITS AS SPECIFIED.
- WHERE ANY CABLE IS INSTALLED IN A FASHION WHERE EXPOSED TO PUBLIC VIEW, INSTALL CABLE INSIDE THE SPECIFIED BRAIDED EXPANDABLE SLEEVING. EXAMPLES OF SUCH LOCATIONS INCLUDE, BUT ARE NOT LIMITED TO EQUIPMENT ITEMS ON LECTERNS AND CEILING MOUNTED PROJECTORS.
- PROVIDE PERMANENT, MECHANICALLY PRODUCED LABELS ON ALL CABLES AT CONNECTORS AND TERMINATION POINTS.

AUDIO-VIDEO SIGNAL TYPE ABBREVIATIONS SCHEDULE

| ABBREVIATION | SIGNAL TYPE |
|--------------|----------------------------|
| AL | AUDIO, LEFT, (LINE LEVEL) |
| AR | AUDIO, RIGHT, (LINE LEVEL) |
| AA | ANALOG AUDIO |

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS SCALE IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVE: THE TERM "APPROVE", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS. THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC.

ABBREVIATIONS

- NOTE: ALL ABBREVIATIONS MAY NOT BE USED.
- "A" AUDIO
 - "A/R" AS REQUIRED
 - "ADJ" ADJACENT
 - "C" CONDUIT
 - "CAT" CATEGORY
 - "CFI" CONTRACTOR FURNISHED AND INSTALLED
 - "CV" COMPOSITE VIDEO
 - "DVI" DIGITAL VISUAL INTERFACE
 - "DVD" DIGITAL VERSATILE DISK
 - "E" ENHANCED
 - "EA" EACH
 - "EX" EXISTING
 - "GR" GROUND
 - "I.O.F." INSTALLATION OF OWNER FURNISHED EQUIPMENT
 - "L" LEFT AUDIO CHANNEL, LINE LEVEL
 - "N/A" NOT APPLICABLE
 - "MIC" MIC LEVEL AUDIO
 - "N.I.C." NOT IN CONTRACT
 - "OFCI" OWNER FURNISHED AND CONTRACTOR INSTALLED
 - "OFF" OWNER FURNISHED AND INSTALLED
 - "OFP" OBTAIN FROM PLANS
 - "QTY" QUANTITY
 - "OP" OWNER PROVIDED
 - "POE" POWER OVER ETHERNET
 - "R" RIGHT AUDIO CHANNEL, LINE LEVEL
 - "RGBHV" COMPUTER VIDEO
 - "RMK" RACK MOUNT KIT
 - "RU" RACK UNIT, 1.75"
 - "TYP" TYPICAL
 - "V" VOLT
 - "VHS" VIDEO HOME SYSTEM
 - "W" WITH
 - "YC" S-VIDEO
 - "YPP" COMPONENT VIDEO
 - "VGA" VIDEO GRAPHICS ARRAY

AUDIO AND VIDEO SYSTEM EQUIPMENT LIST

THE ITEMS INDICATED BELOW SHALL NOT BE CONSTRUED AS A "BILL OF MATERIALS". THIS LIST IDENTIFIES ITEMS OF SIGNIFICANCE USED DURING THE DESIGN OF THE ELECTRONIC SYSTEMS INSTALLATION, WHERE THE ITEMS INDICATED ARE ONE PORTION OF AN ASSEMBLY, THE ENTIRE ASSEMBLY SHALL BE PROVIDED UNLESS SPECIFIED OTHERWISE. PROVIDE ALL MISCELLANEOUS HARDWARE AND SUPPORTS WHICH MAY NOT BE LISTED HERE, FOR A COMPLETE INSTALLATION. COMPARE CATALOG NUMBERS WITH DESCRIPTIONS AND NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO BID. IF CATALOG NUMBERS DO NOT MATCH DESCRIPTIONS, THE DESCRIPTIONS TAKE PRECEDENCE. PROVIDE COMPLETE SUBMITTAL FOR APPROVAL PRIOR TO PURCHASING ANY EQUIPMENT OR CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

| SYMBOL | DESCRIPTION | QUANTITY | ACCEPTABLE TYPES |
|----------------|---|----------|---|
| WR | WIRELESS MICROPHONE SYSTEM WITH BODY WORN AND HANDHELD TRANSMITTER, LAVALIER MICROPHONE | 0FP | SHURE ULXS124/85 |
| | HEAD WORN ELEMENTS | 0FP | COUNTRYMAN E6i |
| | ANTENNA CABLE | A/R | SHURE UA844S/WB/UA8 AND CABLE |
| S | SPEAKER, FULL RANGE WALL MOUNT, EXTERIOR | 0FP | COMMUNITY R.35COAX W/ MOUNTING BRACKET |
| | POWER AMPLIFIER, 70V, WATTS | 0FP | EXTRON XPA 2001 |
| CP | AUDIO CONNECTION PANEL | 0FP | RDL MODULES W/ 2-GANG DECORA TRIM RING, SEE DETAIL 2/TA0.1 |
| PV | AUDIO POWER/VOLUME CONTROL PANEL | 0FP | RDL DS-ECR1L W/ 2-GANG DECORA TRIM RING, SEE DETAIL 3/TA0.1 |
| MIX | MICLINE MIXER, STEREO | 0FP | RANE MLM82S |
| ATT | ATTENUATOR | 0FP | RADIO DESIGN LABS RU-VCA2A W/ RACK MOUNT KIT |
| CONTROL MODULE | CONTROL MODULE FOR USE WITH "PV" | 0FP | RADIO DESIGN LABS FP-ECC1 DN-F400 |
| DSP | DIGITAL SIGNAL PROCESSOR, 4x4 | 0FP | STEWART DSP 4X4 |
| TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSOR, 20 AMP, RACK MOUNT | 0FP | TRIPP LITE IBAR12-20ULTRA |

A/R = AS REQUIRED, 0FP = OBTAIN FROM PLANS

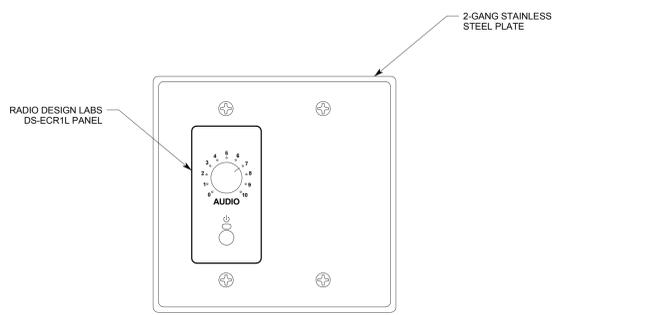
AUDIO-VIDEO SYSTEMS CABLE SCHEDULE

| CABLE TYPE | DESCRIPTION | ACCEPTABLE TYPES | SPECIAL INSTRUCTIONS |
|------------|---|--|----------------------|
| M | MICROPHONE CABLE, 22 AWG, SHIELDED, TWISTED PAIR W/ DRAIN | BELDEN 82761 LIBERTY 22-IP-CMP-EZ-WHY WEST PENN D25454 | NOTE 19 |
| L | LINE LEVEL CABLE, 22 AWG, SHIELDED, TWISTED PAIR W/ DRAIN | BELDEN 82761 LIBERTY 22-IP-CMP-EZ-WHY WEST PENN D25454 | NOTE 19 |
| S | SPEAKER CABLE, 70 V, 16 AWG, TWISTED PAIR | WEST PENN 25225 LIBERTY 16-2C-T1P | NOTE 19 |
| C | CONTROL CABLE, 24 AWG, 4 PAIR, OVERALL SHIELD | BELDEN 88104 WEST PENN D252404 | NOTE 19 |

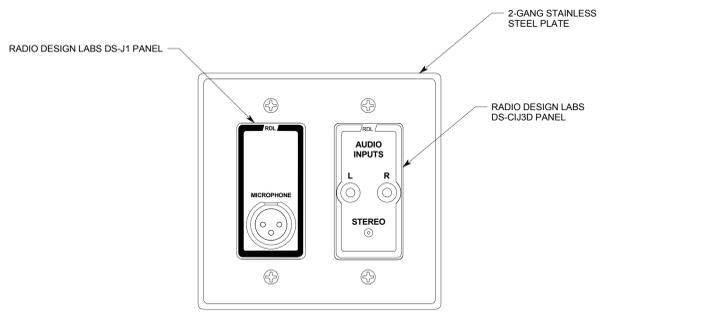
AUDIO-VIDEO SYSTEM CABLE INSTALLATION REQUIREMENTS SCHEDULE

| ORIGIN | DESTINATION | CABLE TYPE | QUANTITY | SPECIAL INSTRUCTIONS |
|--------|-------------|------------|----------|--|
| CP | ER | M | 1 | |
| | | M | 1 | |
| PV | ER | C | 1 | |
| S | ER | S | 1 | CIRCUIT TO ALL SPEAKERS AS SHOWN ON PLAN SHEET |

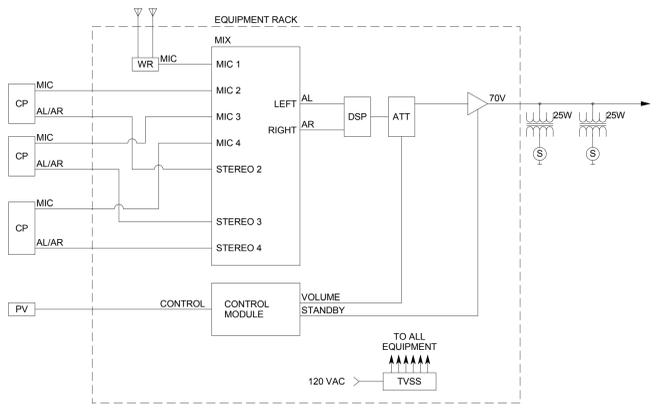
CABLE INSTALLATION REQUIREMENTS APPLY TO EVERY DEVICE LOCATION SHOWN IN EVERY ROOM.
ER = EQUIPMENT RACK



3 AUDIO POWER/VOLUME CONTROL PANEL DETAIL
NTS PV



2 AUDIO CONNECTION PANEL DETAIL
NTS CP



NOTE:
1. LOCATE WIRELESS MICROPHONE ANTENNAS OUTSIDE. COORDINATE EXACT LOCATION WITH ARCHITECT.

1 PAVILION SOUND SYSTEM AUDIO AND CONTROL SYSTEM RISER DIAGRAM
NO SCALE