ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER

JONESBORO, ARKANSAS

100% CONSTRUCTION DOCUMENTS

05-18-2026

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REGISTERED ARCHITECT · JAMES PURIFOY · NO. 12172 · ARKANSAS · 5.18.26

ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER
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G0.00

ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER

JONESBORO, ARKANSAS

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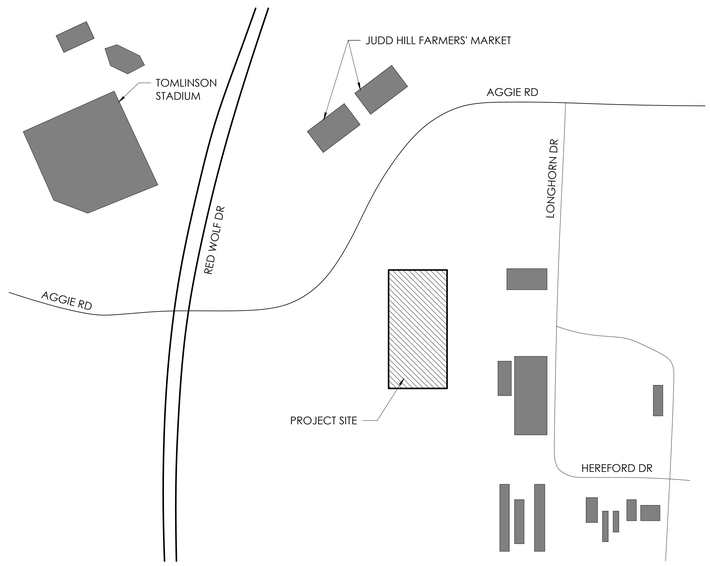

1 VICINITY MAP
1 1/2" = 1'-0"

SYMBOL LEGEND

Name / Elevation — FLOOR ELEVATION
DRAWING NUMBER / SHEET NUMBER (1 / A101, SIM) — DETAIL KEY
101 — DOOR TAG
0 — GRID TAG
ROOM NUMBER / OFFICE / 150 SF — ROOM TAG
DRAWING NUMBER / SHEET NUMBER (1 / A101, SIM) — BUILDING SECTION
DRAWING NUMBER / SHEET NUMBER (1 / A101, SIM) — WALL SECTION
DRAWING NUMBER / SHEET NUMBER (1 / A101, SIM) — DETAIL
DRAWING NUMBER / SHEET NUMBER (SIM / 1/A4.3) — DETAIL
8'-6" AFF — CEILING ELEVATION
1 — PARTITION TYPE
A — WINDOW TYPE
a — STOREFRONT TYPE
DRAWING NUMBER / SHEET NUMBER (1 / A1.0) — ELEVATION TAG
DRAWING NUMBER / SHEET NUMBER (1 / A1.0) — INTERIOR ELEVATION TAG
J — ACCESSORY TAG
CL — CENTERLINE
CONTROL JOINT
EXPANSION JOINT

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GENERAL NOTES

1. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL ESTABLISH LOCATION OF ALL PARTITIONS. LARGER SCALE DRAWINGS HAVE PRIORITY OVER SMALLER SCALE DRAWINGS. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION.
2. NOTES TO "ALIGN" SHALL MEAN TO ALIGN FINISHED FACE OF PARTITION UNLESS OTHERWISE NOTED AND SHALL HAVE PRIORITY OVER A DIMENSIONED LOCATION.
3. PROVIDE FIRE RETARDANT TREATED WOOD BLOCKING OR METAL BLOCKING AS SHOWN OR AS REQUIRED FOR ATTACHMENT OF WALL MOUNTED HARDWARE, TOILET ACCESSORIES, CASEWORK, MILLWORK, FINISH CARPENTRY AND WHEREVER ELSE IT MAY BE REQUIRED FOR THE SECURE ATTACHMENT OF ADJOINING WORK REFER TO SPECIFICATION SECTION 06100 FOR SPECIFICS ON WOOD BLOCKING.
4. PLAN DIMENSIONS SHOWN ARE TO FACE OF STUD, UNLESS NOTED OTHERWISE ON DETAILS.
5. LIGHT SWITCHES MAY BE MOUNTED NO HIGHER THAN 48" ABOVE FINISHED FLOOR IN ORDER TO COMPLY WITH ADA REQUIREMENTS.
6. INSTALL FLOOR & OVERHEAD TRACKS IN CONT. BEAD OF ACOUSTICAL SEALANT. INSTALL ELEC. BOXES ON OPPOSITE SIDES OF WALL 24" APART MIN. INSTALL ACOUSTIC BATT INSULATION BETWEEN STUDS AS REQUIRED TO ACHIEVE STC RATING PER PARTITION SCHEDULE. INSULATE BETWEEN STUDS AND HOLLOW METAL FRAMES-TYP FOR ALL.
7. MAINTAIN FIRE RATING AT RECESSED PANELS AND CABINETS.
8. **CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES FOUND IN THE CONTRACT DOCUMENTS. WORK PERFORMED WITHOUT CLARIFICATION FROM ARCHITECT IS ENTIRELY AT CONTRACTOR'S RISK.**

SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOBSITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

THE DUTY OF THE ARCHITECT IS TO CONDUCT CONSTRUCTION OBSERVATION OF THE CONTRACTOR'S PERFORMANCE AND IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, OR NEAR THE CONSTRUCTION SITE.

OWNERSHIP OF DOCUMENTS

THESE DOCUMENTS, AND THE DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICES, ARE THE PROPERTY OF FENNELL PURIFOY ARCHITECTS, PLC, AND ARE NOT TO BE USED IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION OF FENNELL PURIFOY ARCHITECTS, PLC.

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REGISTERED ARCHITECT — PHILIP PURIFOY — NO. LL2 — ARKANSAS — 5.18.26

REVISIONS:

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05-18-2026

PROJECT INFO
G0.10

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DIVISION 01 - GENERAL REQUIREMENTS

TERMINOLOGY

1. "ALIGN" SHALL MEAN TO ACCURATELY LOCATE ADJACENT FACES FLUSH, EVEN, OR LEVEL WITH/TO THE SAME LINE OR PLANE AND TO INSTALL NEW CONSTRUCTION WITHOUT ANY IRREGULARITY.
2. "CLEAR" ("CLR.") SHALL MEAN THE FINISHED CONDITION IS TO BE HELD TO MINIMUM DIMENSION NOTED AND IS NOT ADJUSTABLE WITHOUT THE APPROVAL OF THE ARCHITECT.
3. "TYPICAL" ("TYP.") SHALL MEAN THE CONDITION IS THE SAME OR REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT.
4. "SIMILAR" ("SIM.") SHALL MEAN THE CONDITION GENERALLY RESEMBLES A LIKE CONDITION ELSEWHERE, WHICH IS REPRESENTATIVE OF CONSTRUCTION AND ASSEMBLY. CORRESPONDING NOTATION AND REQUIREMENTS APPLY.
5. "FIELD VERIFY" ("F.V.") SHALL MEAN TO CONFIRM THE DIMENSION IN THE DRAWINGS WITH THE ACTUAL DIMENSION IN THE FIELD.
6. NOTES CONTAINING THE ACRONYM "NRCA" REFER TO THE "NATIONAL ROOFING CONTRACTORS ASSOCIATION" ROOFING MANUAL.
7. NOTES CONTAINING THE ACRONYM "SMACNA" REFER TO THE "SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION" ARCHITECTURAL SHEET METAL MANUAL.

DRAWINGS

1. SYSTEM AND MATERIAL NOTES AND DIMENSIONS MAY APPEAR ON MULTIPLE SHEETS AND DRAWINGS WITHIN THIS SET OF CONTRACT DOCUMENTS. REVIEW ALL SHEETS FROM ALL DESIGN DISCIPLINES AND APPLY ANNOTATION TO RELATED BUILDING COMPONENTS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
2. REFER TO COMPLETE SET OF ISSUED CONTRACT DOCUMENTS FOR OTHER APPLICABLE NOTES, ABBREVIATIONS AND SYMBOLS.
3. DO NOT SCALE THE DRAWINGS.
4. DIMENSIONS ARE TO FACE OF CONCRETE, FACE OF CMU, FACE OF STUD, FACE OF BRICK VENEER, EDGE OF MASONRY OPENING, OR COLUMN CENTERLINE UNLESS OTHERWISE NOTED.

OWNER COORDINATION

1. SOME SCOPES OF WORK MAY NOT BE PART OF THIS CONTRACT, BUT WILL BE PROVIDED BY OWNER AND ARE REQUIRED TO COMPLETE THIS PROJECT. GENERAL CONTRACTOR SHALL COORDINATE WITH AFFECTED SUBCONTRACTORS, OWNER, OWNER'S CONTRACTORS, AND ARCHITECT PRIOR TO CONSTRUCTION IN ORDER TO ACCOMMODATED REQUIREMENTS OF ALL SCOPES OF WORK. REFERENCE RESPONSIBILITY MATRIX.
2. COORDINATE INSTALLATION AND ANY MODIFICATION OF UTILITIES, SECURITY SYSTEMS, FIRE PROTECTION SYSTEMS, BUILDING MANAGEMENT SYSTEMS, AND OTHER SERVICES WITH THE OWNER. SCHEDULE INTERRUPTION OF ANY SERVICE 2 WEEKS IN ADVANCE TO OWNER'S SATISFACTION.
3. OWNER PROVIDED ITEMS ARE SHOWN / NOTED FOR REFERENCE. CONTRACTOR SHALL COORDINATE ROUGH-IN AND INSTALLATION REQUIREMENTS OF ACTUAL OWNER PROVIDED EQUIPMENT AND FURNISHINGS WITH OWNER PRIOR TO START OF CONSTRUCTION. FIELD VERIFY DIMENSIONS, VERIFY SYSTEM TYPES AND COMPATIBILITY, CONFIRM COMPONENT DIMENSIONS, VERIFY ROUGH OPENING SIZES, PROVIDE REQUIRED BLOCKING AND MOUNTING SURFACES, AND COORDINATE ASSOCIATED MECHANICAL, ELECTRICAL, PLUMBING, COMMUNICATION, AND DATA REQUIREMENTS. REFERENCE RESPONSIBILITY MATRIX, EQUIPMENT SCHEDULES, WIRING DIAGRAMS, AND DRAWINGS.
4. COORDINATION DRAWINGS FOR SOME OWNER PROVIDED ITEMS ARE INCLUDED IN THESE CONSTRUCTION DOCUMENTS. ADDITIONAL INFORMATION MAY BE AVAILABLE FOR REFERENCE UPON REQUEST.
5. ALL FURNITURE AND SYSTEMS FURNITURE TO BE PROVIDED AND INSTALLED PER RESPONSIBILITY MATRIX AND AS NOTED ON DRAWINGS. COORDINATE REQUIREMENTS / ROUGH-IN OF ACTUAL FURNITURE WITH OWNER AND FURNITURE SUPPLIER / MANUFACTURER.
6. SECURITY SYSTEM WITH CAMERAS TO BE PROVIDED AND INSTALLED PER RESPONSIBILITY MATRIX AND AS NOTED ON DRAWINGS. G.C. TO PROVIDE ROUGH-IN. COORDINATE REQUIREMENTS OF ACTUAL EQUIPMENT WITH OWNER AND SECURITY CONTRACTOR.
7. ACCESS CONTROL SYSTEM TO BE PROVIDED AND INSTALLED PER RESPONSIBILITY MATRIX AND AS NOTED ON DRAWINGS. G.C. TO PROVIDE ROUGH-IN. COORDINATE REQUIREMENTS OF ACTUAL EQUIPMENT WITH OWNER AND ACCESS CONTROL CONTRACTOR. COORDINATE EXACT LOCATIONS OF DEVICES WITH OWNER. DEVICES SHALL BE RECESSED WITH CONCEALED WIRING - TYPICAL.
8. AUDIO / VISUAL SYSTEMS TO BE PROVIDED AND INSTALLED PER RESPONSIBILITY MATRIX AND AS NOTED ON DRAWINGS. G.C. TO PROVIDE ROUGH-IN. COORDINATE REQUIREMENTS OF ACTUAL EQUIPMENT WITH OWNER AND A.V. CONTRACTORS.

GENERAL CONSTRUCTION

1. ALL WORK TO CONFORM TO APPLICABLE LOCAL AND NATIONAL CODES, ORDINANCES, AND OTHER REQUIREMENTS, INCLUDING THE AMERICAN'S WITH DISABILITIES ACT.
2. FULLY LAY OUT GRID, WALL, AND OPENING PLACEMENT IN AREAS PRIOR TO START OF PARTITION CONSTRUCTION. VERIFY THAT DIMENSIONS ARE CONSISTENT WITH REQUIREMENTS INDICATED IN THE DOCUMENTS. REFER ANY DIMENSIONAL INCONSISTENCIES TO THE ARCHITECT FOR RESOLUTION PRIOR TO THE START OF PARTITION CONSTRUCTION.
3. FIELD VERIFY SIZE OF CLEAR OPENINGS WITH DIMENSIONS SHOWN ON DRAWINGS AND ACTUAL ASSOCIATED EQUIPMENT, CASEWORK, DOOR FRAMES, AND GLAZING FRAMING SYSTEMS. REFER ANY DIMENSIONAL INCONSISTENCIES TO THE ARCHITECT FOR RESOLUTION PRIOR TO THE START OF CONSTRUCTION.
4. VERIFY COMPATIBILITY OF DISSIMILAR MATERIALS IN DIRECT CONTACT WITH ONE ANOTHER TO AVOID CORROSION OR MATERIAL DEGRADATION. NOTIFY ARCHITECT IMMEDIATELY OF ANY MATERIAL INCOMPATIBILITY.
5. PROVIDE CONTINUOUS PROTECTIVE RUBBERIZED OR PLASTIC MEMBRANE BARRIER / WRAP / SEALER AT INTERSECTIONS OF DISSIMILAR MATERIALS TO PROTECT AGAINST CORROSION AND MOISTURE ABSORPTION - TYP. PROVIDE PROTECTIVE LAYER BETWEEN DISSIMILAR METALS THAT ARE IN DIRECT CONTACT TO AVOID GALVANIC CORROSION AND BETWEEN WOOD AND CONCRETE / MASONRY TO ELIMINATE WICKING OF MOISTURE INTO WOOD.
6. PROVIDE HEADERS AND LINTELS ABOVE ALL OPENINGS. REFERENCE STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR TYPICAL / SIMILAR CONDITIONS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY BRACING / SHORING OF STRUCTURE DURING DEMOLITION AND CONSTRUCTION.
8. COORDINATE ATTACHMENT OF NEW ITEMS SUSPENDED FROM FLOOR / CEILING / ROOF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO SUSPENDED CEILINGS, SUSPENDED M.E.P. EQUIPMENT AND DEVICES, HUNG AUDIO / VISUAL EQUIPMENT, AND SUSPENDED FIRE SUPPRESSION SYSTEMS. VERIFY DEPTH AND CAPACITY OF ASSEMBLIES TO SUPPORT ITEMS. INSTALL NEW ITEMS PER MANUFACTURER'S RECOMMENDATIONS. TAKE PRECAUTIONS TO PROTECT / MAINTAIN INTEGRITY OF WEATHER / MOISTURE BARRIERS.
9. LOCATE EQUIPMENT AND VALVES TO MINIMIZE THE NEED FOR ACCESS PANELS.
10. PROVIDE ACCESS PANELS OF APPROPRIATE SIZE, TYPE, AND FIRE RATING IN WALLS AND CEILINGS AT LOCATIONS INDICATED ON DRAWINGS. PROVIDE ACCESS PANELS NOT SHOWN BUT REQUIRED BY PROVISIONS OF THE CONTRACT DOCUMENTS, AND TO ACCESS ALL MECHANICAL EQUIPMENT FOR NORMAL MAINTENANCE OR OPERATION. LOCATE AND SIZE IN ACCORDANCE WITH APPLICABLE CODES. SUBMIT LAYOUT OF ALL REQUIRED CEILING ELEMENTS, INCLUDING ACCESS PANELS, FOR ARCHITECT'S REVIEW PRIOR TO INSTALLATION. AT GYPSUM BOARD, PROVIDE MUD-IN ACCESS PANELS.
11. ANY DEVIATION IN THE LOCATION, ORIENTATION, AND SIZE OF ROOF OR WALL PENETRATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER, MECHANICAL ENGINEER, ARCHITECT. IF ALTERNATIVE SIZE, ORIENTATION, OR LOCATION IS REQUESTED AND APPROVED, THE CONTRACTOR IS RESPONSIBLE FOR ANY FURTHER STRUCTURAL REINFORCEMENT AS STIPULATED BY BUILDING CODES AND/OR STRUCTURAL DESIGN.
12. CONTRACTOR TO TAKE CARE TO PROTECT SURFACES OF FLOORS, WALLS, ROOF, AND STRUCTURAL MEMBERS INTENDED TO BE EXPOSED IN FINISHED PRODUCT. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF DAMAGED ITEMS.
13. COORDINATE INSTALLATION OF PREFABRICATED ITEMS WITH MANUFACTURER'S RECOMMENDATIONS. COORDINATE ALL ATTACHMENT OF ITEMS NOT PROVIDED BY MANUFACTURER TO CONNECTING STRUCTURES.
14. GENERAL CONTRACTOR IS RESPONSIBLE FOR SUPPLY AND ERECTION OF ALL TEMPORARY CONSTRUCTION FENCING FOR SAFETY, CONSTRUCTION CONTAINMENT, AND ACCESS CONTROL - REF. SPECIFICATIONS. SECURE ACCESS TO CONSTRUCTION AREAS THROUGHOUT DEMOLITION AND CONSTRUCTION. COORDINATE EXACT SCHEDULING AND EXTENTS W/ OWNER TO MAINTAIN USE OF FACILITIES BY OWNER DURING CONSTRUCTION.
15. USE OF EXPLOSIVES AND BURNING ON-SITE WILL NOT BE PERMITTED, U.N.O.
16. SIGNS, LIGHTS, AND BARRICADES SHALL BE INSTALLED AT LOCATIONS NECESSARY TO MAINTAIN A SAFE WORK SITE CONDITION AS DIRECTED / APPROVED BY THE OWNER AND IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
17. MAINTAIN AND PROTECT EXISTING SIDEWALKS, PAVING, FENCING, BOLLARDS, AND OTHER SITE FEATURES TO REMAIN DURING CONSTRUCTION.
18. NEW WORK TAKES PLACE ADJACENT TO AND WITHIN EXISTING STRUCTURES / FEATURES TO REMAIN. PROTECT ALL STRUCTURES TO REMAIN DURING CONSTRUCTION. FIELD VERIFY EXTENTS OF PRESENT SYSTEMS TO BE INTERRUPTED AND COORDINATE ALL NEW TIE-IN WORK WITH EXISTING SYSTEMS / FACILITIES. SEE DEMOLITION PLAN AND SITE PLAN FOR FULL EXTENTS OF REMOVAL OF EXISTING ITEMS AND FOR ITEMS / AREAS TO REMAIN. ALL WORK TO EXISTING SYSTEMS SERVING ADJACENT CAMPUS FACILITIES SHALL BE COMPLETED IN A FASHION THAT DOES NOT INTERRUPT DAILY OPERATIONS, UNLESS APPROVED BY THE OWNER. CONTRACTOR IS RESPONSIBLE FOR PATCH AND REPAIR OF ALL DAMAGES TO EXISTING STRUCTURES / FEATURES TO REMAIN INCURRED DURING DEMOLITION AND CONSTRUCTION.

COORDINATION BETWEEN TRADES

1. THIS PROJECT MAY UTILIZE PREFABRICATED AND / OR PRE-ENGINEERED COMPONENTS. THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE (WITH ALL TRADES) WITH THE MANUFACTURER BEFORE PROCEEDING WITH WORK. CONTRACTOR SHALL PROVIDE COORDINATION DRAWINGS FOR PROPER PLACEMENT OF ALL TRADES' WORK. ALL CONCERNS, SPACE LIMITATIONS, OR STRUCTURAL CONFLICTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCING WITH WORK.
2. THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE (WITH ALL TRADES) THE SIZES AND LOCATIONS OF ALL OPENINGS FOR MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE PROTECTION EQUIPMENT, AS WELL AS EQUIPMENT PADS OR BASES AND POWER, WATER, AND DRAIN INSTALLATIONS BEFORE PROCEEDING WITH WORK. CONTRACTOR SHALL PROVIDE COORDINATION DRAWINGS FOR PROPER PLACEMENT OF ALL TRADES' WORK. ALL CONCERNS, SPACE LIMITATIONS, OR STRUCTURAL CONFLICTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCING WITH WORK.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND LOCATE ELECTRICAL, DATA, FIRE PROTECTION, PHONE AND AUDIO/VISUAL DEVICES (RECEPTACLES, STROBES, LIGHTS, SWITCHES, ETC.) TO AVOID CONFLICTS WITH CASEWORK, DOORS, GLAZING, AND OTHER TRADES. CONFLICTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCING WITH THE WORK IN QUESTION.
4. MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, ETC. DEVICES SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS. REFER TO RESPECTIVE DISCIPLINE DOCUMENTS FOR ADDITIONAL INFORMATION. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS.
5. PRIOR TO ROUGH-IN, COORDINATE ALL LOCATIONS WITH THE OWNER, ARCHITECT, AND AFFECTED SUB-CONTRACTORS FOR ROUGH-IN JUNCTION BOXES AS DESCRIBED ON THE ELECTRICAL AND ARCHITECTURAL DRAWINGS FOR OWNER PROVIDED EQUIPMENT AND DEVICES, A.V.L. EQUIPMENT, AND FURNISHINGS.
6. COORDINATE CONCRETE HOUSEKEEPING PADS WITH ACTUAL MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT TO BE INSTALLED. COORDINATE EXACT SIZE AND PLACEMENT OF CONCRETE HOUSEKEEPING PADS AND UTILITY VAULTS WITH MEP, STRUCTURAL, AND UTILITY COMPANY REQUIREMENTS.
7. COORDINATE INSTALLATION OF DIFFUSERS, SPEAKERS, SPRINKLER HEADS, ACCESS PANELS, AND OTHER CEILING MOUNTED ITEMS WITH MEP LIGHTING LAYOUT AND ARCHITECTURAL CEILING PLAN. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
8. WHERE MATERIALS ARE APPLIED TO OR ARE IN DIRECT CONTACT WITH WORK INSTALLED BY ANOTHER SUBCONTRACTOR, COMMENCEMENT OF WORK IMPLIES ACCEPTANCE OF THE SUBSTRATE AS SUITABLE FOR THE APPLICATION INTENDED.

FIRE-RATED CONSTRUCTION

1. ALL PENETRATIONS OF FIRE-RATED FLOOR, WALL, CEILING, AND ROOF ASSEMBLIES TO BE SEALED WITH APPROVED FIRE-RESISTIVE RATED MATERIALS TO THE FULL THICKNESS OF THE CONSTRUCTION. SEAL OPENINGS AND JOINTS IN FIRE RESISTIVE RATED ASSEMBLIES WITH FIRE-STOPPING SYSTEMS AND FIRE-RESISTIVE JOINT SYSTEMS EQUALING OR EXCEEDING THE FIRE RESISTANCE RATING OF THE PENETRATED ASSEMBLY.
2. WALLS INDICATED TO BE FIRE AND/OR SMOKE RATED ASSEMBLIES ARE TO BE CONSTRUCTED CONTINUOUSLY WITHOUT INTERRUPTION BY NON-RATED PARTITION WALLS. PARTITION TYPES AND FIRE RESISTIVE RATING INDICATED ON A PARTITION ARE TO BE CONTINUOUS FOR THE LENGTH AND HEIGHT OF A PARTITION.
3. MAINTAIN THE FIRE RATING OF CONSTRUCTION AROUND CABINETS, PANELS, AND BOXES RECESSED IN FIRE RATED WALL, FLOOR, CEILING, AND ROOF ASSEMBLIES.

CONSTRUCTION PHASING

1. REFERENCE THE SITE PLAN, CIVIL, AND PROJECT MANUAL FOR THE PROPOSED LOCATIONS AND EXTENTS OF CONSTRUCTION BOUNDARIES, CONSTRUCTION LAYOUT AREA, AND TEMPORARY FACILITIES. REFERENCE THE PROJECT MANUAL FOR SIGNIFICANT DATES AND DEADLINES.
2. GENERAL CONTRACTOR IS RESPONSIBLE FOR SUPPLY AND ERECTION OF ALL TEMPORARY CONSTRUCTION FENCING FOR SAFETY, CONSTRUCTION CONTAINMENT, AND ACCESS CONTROL - REF. SPECIFICATIONS. SECURE ACCESS TO CONSTRUCTION AREAS THROUGHOUT DEMOLITION AND CONSTRUCTION. COORDINATE EXACT SCHEDULING AND EXTENTS W/ OWNER TO MAINTAIN USE OF FACILITIES BY OWNER DURING CONSTRUCTION.
3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF ALL PAVING THAT IS DAMAGED DURING CONSTRUCTION ACTIVITIES OR DELIVERIES. FULL DEPTH OF PAVING SHALL BE REMOVED BY CLEANLY SAW-CUTTING DAMAGED AREAS AWAY AND REPLACED TO MATCH ORIGINAL CONSTRUCTION.
4. SEQUENCE OF MAJOR ACTIVITIES:
   A. SITE CLEARING, GRADING, AND UTILITIES
   B. NEW BUILDING
   C. NEW SITE FEATURES

DIVISION 02 - EXISTING CONDITIONS

1. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EXISTING ITEMS NOTED TO BE REMOVED. ALL MATERIALS REFUSED & DEMOLISHED SHALL BE REMOVED AND DISCARDED BY THE CONTRACTOR.
2. THE LOCATIONS OF EXISTING UTILITIES HAVE BEEN PREPARED FROM DOCUMENTS PROVIDED BY OTHERS AND MAY NOT REPRESENT THE ACTUAL FIELD CONDITIONS. CONTRACTOR TO REVIEW ALL DOCUMENTS AND BECOME FAMILIAR WITH ALL EXISTING UTILITIES. THE CONTRACTOR HAS THE RESPONSIBILITY TO VERIFY LOCATIONS IN THE FIELD BY EMPLOYING FIELD UTILITY LOCATING SERVICES BEFORE CONSTRUCTION STARTS. COORDINATE ALL NEW UTILITY LOCATIONS, CONNECTIONS, AND ANY REQUIRED PENETRATIONS.
3. CONTRACTOR SHALL VERIFY THAT EXISTING CONDITIONS ARE AS SHOWN ON DRAWINGS AND NOTIFY ARCHITECT IMMEDIATELY WITH ANY DISCREPANCIES.
4. SEE FLOOR PLAN AND SITE PLAN LEGENDS FOR ADDITIONAL INFORMATION REGARDING ITEMS TO BE REMOVED. DASHED LINES IN DEMOLITION PLAN INDICATE REMOVAL OF ITEMS - U.N.O.
5. CONTRACTOR IS RESPONSIBLE FOR THE PATCH AND REPAIR OF ALL DAMAGED OR ALTERED EXISTING ELEMENTS THAT ARE TO REMAIN.
6. SEE SITE PLAN FOR EXTENTS OF DEMOLITION WORK. REFERENCE CIVIL AND MEP FOR ADDITIONAL INFORMATION.
7. FOR SITE-RELATED ITEMS TO BE REMOVED: UTILITY, MECHANICAL, ELECTRICAL, PLUMBING, COMMUNICATIONS, SECURITY, DATA, AND AUDIO / VISUAL SYSTEMS TO BE REMOVED TO BELOW GRADE / CONCEALED SOURCE AND ABANDONED IN-PLACE, U.N.O. ALL ITEMS IN CONFLICT WITH NEW CONSTRUCTION SHALL BE REMOVED. REF. CIVIL AND M.E.P.

DIVISION 03 - CONCRETE

1. PROVIDE WATER-STOP AT CONCRETE SLAB-ON-GRADE FLOOR TO CONCRETE WALL JOINTS AND AT BELOW GRADE WALL CONSTRUCTION JOINTS TO PROVIDE CONTINUOUS BARRIER AGAINST WATER INFILTRATION. SEE SPECS.
2. CRACKING IN NEW CONCRETE FLOOR SLABS IS EXPECTED AS A NATURAL EFFECT OF SHRINKAGE DURING CURING. HAIRLINE CRACKS IN SLAB SURFACES AND AT CONTROL JOINTS ARE ACCEPTABLE, U.N.O. DIFFERENTIAL SETTLEMENT CRACKS IN FLOOR SLABS LEAVING THE FLOOR SURFACE OUT OF PLANE ARE NOT ACCEPTABLE AND SHALL BE REPAIRED BY REMOVING AND REPLACING DAMAGED SLAB AREA TO THE NEAREST PLANNED JOINT OR WALL SURFACE. SHRINKAGE CRACKS IN SLAB-ON-GRADE FLOOR SLAB OR SIDEWALK SURFACES OPENING MORE THAN 1/16" ARE NOT ACCEPTABLE AND SHALL BE REPAIRED BY REMOVING AND REPLACING DAMAGED SLAB AREA TO THE NEAREST PLANNED JOINT OR WALL SURFACE, U.N.O. THE DECISIONS FOR REMOVAL AND REPLACEMENT OF UNACCEPTABLE CRACKS SHALL BE MADE AT THE DISCRETION OF THE ARCHITECT AND OWNER. UNACCEPTABLE CRACKS OCCURRING IN MECHANICAL, STORAGE, AND MAINTENANCE ROOMS, OR IN SLABS COVERED BY A FINISH MATERIAL WILL BE REVIEWED BY THE ARCHITECT FOR ACCEPTABILITY. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. PLANNED JOINTS SHALL BE COORDINATED WITH ARCHITECT AND PLACED IN CONCRETE FLATWORK TO CONTROL RANDOM CRACKING. PROVIDE EXPANSION JOINTS / CONSTRUCTION JOINTS IN CONCRETE SLABS POURED AGAINST VERTICAL SURFACES INCLUDING BUT NOT LIMITED TO WALL SURFACES AND COLUMNS BY PLACING 1/2" MAX. EXPANSION JOINT AND FILLER MATERIAL W/ REMOVABLE EXPANSION JOINT CAP - TYP. CONSTRUCTION JOINTS BETWEEN NEW CONCRETE SLABS AND EXISTING CONCRETE SLABS AND AT CONSTRUCTION JOINTS (COLD JOINTS) BETWEEN SLAB POURS SHALL RECEIVE DRILLED OR CAST-IN #4 DOWELS AT 18" O.C. (U.N.O.) TO FIRMLY SECURE THE NEW CONCRETE TO THE EXISTING AND PREVENT DIFFERENTIAL SETTLEMENT. GREASE DOWEL AT ONE END TO ALLOW MOVEMENT. PROVIDE CONTRACTION / CONTROL JOINT IN CONCRETE SLABS TO PRODUCE PANELS THAT ARE AS SQUARE AS POSSIBLE AND NOT TO EXCEED A LENGTH TO WIDTH RATION OF 1.5:1. PANELS ARE NOT TO EXCEED 144 SQUARE FEET, U.N.O. CONTRACTION / CONTROL JOINTS SHALL BE ESTABLISHED TO A DEPTH OF 1/4 THE DEPTH OF THE SLAB - TYP. COMPLETE SAW-CUT JOINTS AS SOON AS THE CONCRETE CAN WITHSTAND THE ENERGY OF SAWING WITHOUT RAVELING OR DISLODGING AGGREGATE PARTICLES (WITHIN THE FIRST 6-18 HOURS AND NEVER DELAYED MORE THAN 24 HOURS). AT INTERIOR LOCATIONS, CONTRACTION / CONTROL JOINTS SHALL BE SAW-CUT (U.N.O.). AT EXTERIOR LOCATIONS, CONTROL JOINTS SHALL BE TOOLED AT TIME OF PLACEMENT (U.N.O.). PROVIDE CONTINUOUS SEALANT IN JOINTS - TYP.
4. UNLESS NOTED OTHERWISE, COORDINATE EXACT LOCATION OF JOINTS IN CAST-IN-PLACE CONCRETE WALLS AND AS FOLLOWS: PROVIDE CONTRACTION JOINTS WITH CAST-IN 3/4" "V" GROOVE REVEAL AS FOLLOWS: THE SPACING OF VERTICAL CONTRACTION JOINTS SHALL BE PLACED AT A MAXIMUM SPACING OF 30 TIMES THE WALL THICKNESS, BUT NOT TO EXCEED 30 FEET. PLACE CONTRACTION JOINTS WITHIN 10 TO 15 FEET OF CORNERS AND IN LINE WITH WINDOW AND DOOR JAMBS. FOR WALLS 8'-0" OR LESS IN HEIGHT, PLACE CONTRACTION JOINTS AT INTERVALS NOT TO EXCEED 3 TIMES THE WALL HEIGHT. FOR WALLS 8'-0" TO 12'-0" IN HEIGHT, PLACE CONTRACTION JOINTS AT INTERVALS NOT TO EXCEED 2 TIMES THE WALL HEIGHT. FOR WALLS 12'-0" OR GREATER IN HEIGHT, PLACE CONTRACTION JOINTS AT INTERVALS NOT TO EXCEED 1 TIMES THE WALL HEIGHT. PROVIDE EXPANSION JOINTS OR ISOLATION JOINTS TO SEPARATE INDEPENDENT WALL CONSTRUCTION (WALL TO SLAB FOR EXAMPLE) WITH 1/2" THICK COMPRESSIBLE ASPHALT-IMPREGNATED FIBER BOARD INSTALLED BETWEEN ADJACENT PLACEMENTS. AT CONSTRUCTION JOINTS, PROVIDE WATER-STOP WHERE BELOW GRADE, AND REINFORCEMENT TO TIE PLACEMENTS TOGETHER.
5. PROVIDE 1/2" CHAMFER AT CORNERS OF EXPOSED CAST-IN-PLACE CONCRETE WALLS - TYPICAL.

DIVISION 04 - MASONRY

1. WHERE NOT OTHERWISE INDICATED ON THE DRAWINGS, PROVIDE MOVEMENT (CONTROL AND EXPANSION) JOINTS IN MASONRY WALLS AND VENEER PER INDUSTRY STANDARDS FOR CONCRETE MASONRY UNITS AND CLAY MASONRY UNITS (NCMA; NATIONAL CONCRETE MASONRY ASSOCIATION) (BIA; BRICK INDUSTRY ASSOCIATION) (CSI; CAST STONE INSTITUTE) AND AS DIRECTED BY THE STRUCTURAL ENGINEER AND ARCHITECT. WHERE NEEDED, CONSTRUCTION JOINTS SHALL BE LOCATED AT CONTROL / EXPANSION JOINT LOCATIONS - TYPICAL.
2. GENERAL: LOCATE VERTICAL JOINTS AT ONE OR BOTH SIDES OF WALL OPENINGS; AT CHANGES IN WALL AND PARAPET HEIGHT OR THICKNESS; AT (ABOVE OR BELOW) CONSTRUCTION MOVEMENT JOINTS IN FOUNDATIONS, ROOFS, AND FLOORS; AT WALL INTERSECTIONS; AT CHANGES IN WALL DIRECTION (CORNERS); AT PERIODIC LENGTHS OF CONTINUOUS WALL; AND AT CHANGES IN BUILDING MATERIAL.
3. RECOMMENDED SPACING OF VERTICAL JOINTS IN REINFORCED CONCRETE MASONRY WALLS: AT PERIODIC LENGTHS IN CONTINUOUS WALLS WITHOUT OPENINGS EXPRESSED AS A RATIO OF PANEL (WALL) LENGTH TO HEIGHT, L / H = 3, WITH PANELS NOT EXCEEDING 40 FT. IN LENGTH. RECOMMENDED SPACING OF JOINTS IN CONCRETE MASONRY VENEER: AT PERIODIC LENGTHS IN CONTINUOUS WALLS WITHOUT OPENINGS EXPRESSED AS A RATIO OF PANEL (WALL) LENGTH TO HEIGHT, L / H = 1.5, WITH PANELS NOT EXCEEDING 24 FT. IN LENGTH. LOCATE JOINTS FROM OUTSIDE CORNERS AT A DISTANCE NOT EXCEEDING ONE-HALF THE MAXIMUM CONTROL JOINT SPACING FOR A GIVEN WALL.

DIVISION 05 - METALS

1. NOT ALL STEEL ITEMS ARE SHOWN IN STRUCTURAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR ALL MISC. STEEL ITEMS SHOWN IN ARCHITECTURAL DRAWINGS, REGARDLESS OF PRESENCE IN STRUCTURAL DRAWINGS. IF SIZE AND ATTACHMENT IS NOT NOTED IN ARCHITECTURAL DRAWINGS, DESIGN SHALL BE DELEGATED TO STEEL FABRICATOR WITH APPROVAL BY ARCHITECT AND ENGINEER THROUGH THE SHOP DRAWING PROCESS.
2. PROVIDE SUPPLEMENTAL ROOF SUPPORT AT PENETRATIONS TO SUPPORT EDGES OF OPENING AND STRUCTURAL INTEGRITY OF ROOF DECK/SURFACE.
3. METAL FLOOR AND ROOF DECK PANELS ARE NOT TYPICALLY INTENDED TO SUPPORT HANGING LOADS FROM EQUIPMENT, SUSPENDED CONSTRUCTION, MECHANICAL / ELECTRICAL / PLUMBING EQUIPMENT, FIRE SUPPRESSION PIPING, AUDIO / VISUAL EQUIPMENT, OR OTHER HEAVY ITEMS. SUCH ITEMS SHALL BE SECURED TO ADJACENT STRUCTURAL FRAMING AND SUPPLEMENTARY SUB-FRAMING SECURED TO STRUCTURAL FRAMING (TO BE PROVIDED BY CONTRACTOR). ANY SUCH ITEMS PROPOSED TO BE HUNG DIRECTLY FROM METAL DECKING SHALL BE EVALUATED BY THE STRUCTURAL ENGINEER FOR THE SPECIFIC APPLICATION. INSTALL ALL SUSPENDED SYSTEMS PER MANUFACTURER'S RECOMMENDATIONS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL TEMPORARY ATTACHMENT USED DURING ERECTION AND CONSTRUCTION OF STRUCTURAL MEMBERS EXPOSED TO VIEW.
5. WHERE BEAMS AND COLUMNS ARE EXPOSED, CLEAN, GRIND SMOOTH, FILL VOIDS AND SCRATCHES, PRIME, AND SAND SMOOTH PRIOR TO PAINTING - TYP. REFERENCE SPECIFICATIONS.
6. AT EXTERIOR LOCATIONS, PROVIDE GALVANIZED METAL DECK CLOSURE ASSEMBLIES WHERE FLUTES OF METAL DECKING CREATES OPENINGS AT ENDS OR AT INTERSECTIONS WITH WALLS, BEAMS, ROOFS, FLOORS, CEILINGS, SOFFITS, ETC. - TYP. PAINT.

DIVISION 06 - WOOD, PLASTIC, & COMPOSITES

1. ALL EXTERIOR WOOD BLOCKING, MISC. WOOD FRAMING, AND PLYWOOD SHEATHING/DECKING SHALL BE TREATED, U.N.O.
2. ALL WOOD FRAMING / BLOCKING IN EXTERIOR WALL AND ROOF ASSEMBLIES SHALL BE PER WALL CLADDING MANUFACTURER AND NRCA RECOMMENDATIONS, U.N.O. VERIFY PRODUCT REQUIREMENTS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
3. PROVIDE CORROSION RESISTANT FASTENERS INTO TREATED WOOD AND CONTINUOUS PROTECTIVE RUBBERIZED OR PLASTIC MEMBRANE BARRIER / WRAP AT INTERSECTIONS WITH DISSIMILAR MATERIALS TO PROTECT AGAINST CORROSION - TYP.
4. PROVIDE CONCEALED BLOCKING REQUIRED FOR SECURE INSTALLATION OF ALL WALL / CEILING / ROOF MOUNTED ITEMS.
5. GYPSUM BOARD IN EXTERIOR LOCATIONS SHALL BE RATED FOR EXTERIOR USE AND HAVE A FIBERGLASS MAT FACING - TYPICAL, U.N.O.
6. PROVIDE FINISHED END PANELS ON ALL CASEWORK NOT ENCLOSED BY WALLS - TYP.
7. VERIFY EXACT LOCATIONS OF ALL POWER AND DATA OUTLETS TO BE INSTALLED IN ALL CASEWORK WITH ARCHITECT PRIOR TO INSTILLATION.
8. SEE MILLWORK ELEVATIONS FOR OVERALL CASEWORK DIMENSIONS- TYP.

DIVISION 07 - THERMAL & MOISTURE PROTECTION

1. INSTALL SEALANT AT EXTERIOR SIDE OF ALL JOINTS, SEAMS, CONNECTIONS, OR OPENINGS WHICH WOULD ALLOW WATER OR AIR INFILTRATION EXCEPT AS NOTED OTHERWISE. SEALANT COLOR TO MATCH ADJACENT FINISH COLOR TYP. COLOR REQUIRES ARCHITECT'S APPROVAL.
2. ALL JOINTS AT THE TOP AND BOTTOM OF EXTERIOR WALLS ARE TO BE SEALED WITH SEALANT. SEE SPECIFICATIONS.
3. REFER TO SPECIFICATIONS FOR TYPICAL PRE-FINISHED SHEET METAL FABRICATION AND FLASHINGS GAUGES. PRE-FINISHED SHEET METAL FABRICATION AND FLASHINGS LESS THAN 8" SHALL BE 24 GA. (OR EQUIVALENT THICKNESS) MINIMUM -TYP. U.N.O. PRE-FINISHED SHEET METAL FABRICATION AND FLASHINGS BETWEEN 8" AND 16" SHALL BE 22 GA. (OR EQUIVALENT THICKNESS) MINIMUM -TYP. U.N.O. PRE-FINISHED SHEET METAL FABRICATION AND FLASHINGS OVER 16" SHALL BE 20 GA. (OR EQUIVALENT THICKNESS) -TYP. U.N.O. - REF. ELEVATIONS. COLOR BY ARCHITECT, U.N.O.
4. EDGES OF ALUMINUM BRAKE METAL FABRICATIONS FOR COLUMN WRAPS / WALL TRIMS / CORNER CONNECTIONS BETWEEN FRAMES SHALL ALIGN WITH FACES OF GLAZING FRAMING - TYP.
5. INSTALL AND LAP ALL ROOFING MATERIALS AND FLASHING TO PREVENT THE ACCUMULATION / PONDING OF WATER. SLOPE ALL ROOF SURFACES TO DRAIN.
6. PROVIDE CRICKETS AT HIGH SIDE OF ALL ROOF PENETRATIONS TO PROMOTE THE FLOW OF WATER AND PREVENT DAMMING.
7. FABRICATE ALL ROOF FLASHINGS, CURBS, PENETRATIONS, AND ROOF DRAINAGE SYSTEMS PER SMACNA AND NRCA RECOMMENDATIONS.

DIVISION 08 - OPENINGS

DOORS

1. DOOR FRAMES TO BE POSITIONED 4" FROM INSIDE CORNER OF ROOM UNLESS NOTED / INDICATED OTHERWISE.
2. ALL DOORS SHALL BE 1 3/4" THICK, U.N.O.
3. VERIFY WALL DEPTH WITH WALL TYPES PRIOR TO SELECTING FRAME DEPTHS. FOR FRAMES LOCATED IN EXISTING WALLS FIELD VERIFY DEPTH OF EXISTING WALLS.
4. ALL HOLLOW METAL DOOR FRAMES SHALL HAVE A 2" FACE DIMENSION, U.N.O. PROVIDE 5 3/4" DEEP FRAMES FOR 3 5/8" METAL STUD WALLS AND 7 3/4" DEEP FRAMES FOR 6" METAL STUD WALLS, U.N.O. HOLLOW METAL FRAMES IN MASONRY WALLS SHALL RECEIVE 5 3/4" DEEP FRAMES, U.N.O.
5. PROVIDE GALVANIZED HOLLOW METAL DOORS AND/OR FRAMES AT INTERIOR WET LOCATIONS, UNLESS NOTED OTHERWISE.
6. REFERENCE DOOR AND FRAME ELEVATIONS, DOOR SCHEDULE, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING GLAZING TYPES AND DOOR AND FRAME SIZE, FINISH, MATERIAL, AND CONSTRUCTION.
7. REFERENCE CODE PLANS, FLOOR PLANS, AND DOOR SCHEDULE FOR APPLICABLE FIRE RATINGS AT OPENINGS.

GLAZING FRAMING SYSTEMS

1. PROVIDE THRESHOLD WITH PRE-FINISHED PAN/SILL AND DRIP EDGE FLASHING WITH END DAMS AT ALL EXTERIOR LOCATIONS. VERIFY W/ MANUFACTURER'S RECOMMENDATIONS.
2. EXTERIOR GLAZING FRAMING SYSTEMS SHALL BE THERMALLY BROKEN. SEE SPECIFICATIONS FOR MORE INFORMATION.
3. ALUMINUM STOREFRONT FRAMES SHALL BE 2"X4 1/2" - U.N.O. EXTERIOR FRAMES SHALL BE THERMALLY BROKEN. SEE SPECIFICATIONS FOR MORE INFORMATION.
4. ALUMINUM CURTAINWALL FRAMES SHALL HAVE A 2 1/2" FACE DIMENSION - U.N.O. EXTERIOR FRAMES SHALL BE THERMALLY BROKEN. SEE FRAME ELEVATIONS AND SPECIFICATIONS FOR MORE INFORMATION.
5. iNTEGRATED SUB-SILL TO BE PROVIDED BY STOREFRONT / CURTAINWALL MANUFACTURER - TYPICAL.

HARDWARE

1. COORDINATE HARDWARE REQUIREMENTS WITH SECURITY VENDOR TO PROVIDE FULLY FUNCTIONAL INTEGRATED SYSTEM.

GLAZING

1. GLAZING TYPE TAGS APPEAR ON EXTERIOR OR OUTSIDE FACE OF FRAME - TYPICAL. IF TAG IS NOT APPARENT IN BUILDING SECTION OR ELEVATION, REFERENCE DRAWING OF OPPOSITE FACE FOR FRAME TAG. SEE FLOOR PLANS AND FRAME TYPES.
2. PROVIDE SAFETY GLAZING ADJACENT TO DOORS, IN DOOR LEAFS AND LOW LEVEL GLASS PANELS AS REQUIRED BY CODE SECTION 2406

DIVISION 09 - FINISHES

GENERAL

1. AT METAL STUD WALL TO DECK / STRUCTURE CONNECTIONS (HEAD CONDITIONS), PROVIDE METAL STUD DEFLECTION TRACK - U.N.O. PROVIDE RELIEF FOR GYPSUM AT INTERSECTIONS BETWEEN WALL AND ROOF - TYP.
2. REFERENCE FINISH PLAN FOR FINISH TYPES AND LOCATIONS.
3. REFERENCE ELEVATIONS AND SECTIONS FOR FLASHING FINISH TYPES AND LOCATIONS.
4. REFER TO REFLECTED CEILING PLAN FOR LOCATION OF VARYING CEILING HEIGHTS AND MATERIALS.
5. REFER TO SPECIFICATIONS FOR SURFACE PREPARATION REQUIREMENTS.
6. UNLESS NOTED OTHERWISE, COLORS TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL COLOR RANGE.

GYPSUM

1. ALL DRYWALL CORNER BEADS, REVEALS, JOINTS, AND TRIM PRODUCTS SHALL BE METAL OR ALUMINUM, MUD-IN TYPE, U.N.O. VINYL AND PAPER-FACED PRODUCTS ARE NOT ALLOWED. PROVIDE AND COORDINATE REQUIRED BLOCKING / WALL FRAMING FOR SECURE INSTALLATION.
2. WHERE NOT OTHERWISE INDICATED ON THE DRAWINGS, PROVIDE CONTROL JOINTS IN GYPSUM AND PLASTER FINISHES TO COMPLY WITH THE USG GYPSUM CONSTRUCTION HANDBOOK (UNITED STATES GYPSUM COMPANY) AND AS COORDINATED WITH THE ARCHITECT U.N.O. (INTERIOR WALLS AND PARTITIONS: 30 FT. MAXIMUM IN EITHER DIRECTION; INTERIOR CEILING WITH PERIMETER RELIEF: 50 FT. MAXIMUM IN EITHER DIRECTION; INTERIOR CEILINGS WITHOUT PERIMETER RELIEF: 30 FT. MAXIMUM IN EITHER DIRECTION.)
3. GYPSUM BOARD ON WALLS SHALL BE ABUSE-RESISTANT TYPICALLY TO A HEIGHT OF 8'-0" A.F.F. (MIN.) U.N.O.

OTHER FINISHES

1. CLEAR SEAL EXPOSED FACES OF ALL UNPAINTED MASONRY WALLS - U.N.O.
2. CLEAR SEAL ALL INTERIOR UNPAINTED MASONRY WALLS - U.N.O.
3. ALL EXPOSED CONCRETE WALLS SHALL BE CLEAR SEALED, U.N.O.
4. SEE ARCHITECTURAL CEILING PLANS FOR ACOUSTIC CEILING TILE LAYOUT - U.N.O. IF NOT SPECIFICALLY IDENTIFIED, CENTER LAYOUT IN ROOM, U.N.O. - TYP.
5. CEILING TILE BORDER CUTS SHALL BE GREATER THAT FOUR INCHES IN WIDTH - TYP.
6. DOUBLE MOULDING/TEE ALONG WALL PERIMETER WILL NOT BE PERMITTED.
7. LOCATE MAIN TEES FOR CEILING GRID TO ALLOW FOR ACCESS TO MECHANICAL UNITS ABOVE - TYP.
8. PROVIDE 3/4" FIRE RATED PLYWOOD ON ALL WALLS OF I.T. ROOMS TO HEIGHT OF 8'-0" A.F.F. U.N.O. PAINT PLYWOOD TO MATCH ADJACENT WALL SURFACE. COORDINATE EXACT LOCATIONS WITH OWNER.

JOINT SEALANTS

1. ALL PENETRATIONS, INCLUDING ELECTRICAL, SECURITY AND TECHNOLOGY DEVICE BOXES AND CONDUITS THROUGH THE INTERIOR SURFACE OF EXTERIOR WALLS ARE TO BE SEALED WITH SEALANT - SEE SPECIFICATIONS.
2. FILL ALL JOINTS / VOIDS AROUND PENETRATING MECHANICAL, ELECTRICAL, PLUMBING, FIRE SUPPRESSION, AND OTHER ITEMS. FOR PENETRATIONS THROUGH FIRE RESISTANCE RATED ASSEMBLIES, PROVIDE MATERIALS MATCHING ASSEMBLY RATING. FOR PENETRATIONS THROUGH ACOUSTIC RATED ASSEMBLIES, PROVIDE ACOUSTIC SEALANT. REFER TO SPECIFICATIONS.
3. ALL JOINTS AT THE TOP AND BOTTOM OF INTERIOR WALLS SEPARATING CLASSROOMS, OFFICES, AND OTHER ACOUSTICALLY SENSITIVE SPACES ARE TO BE SEALED TO THE FLOOR / DECK WITH ACOUSTIC SEALANT AT BOTH WALL FACES. FILL VOIDS WITH MINERAL WOOL OR OTHER APPROVED ACOUSTICALLY RATED SYSTEM, U.N.O. SEE SPECIFICATIONS AND DRAWINGS FOR LOCATIONS OF STC RATED CONSTRUCTION.
4. ALL EFFORTS SHALL BE TAKEN TO REDUCE THE NUMBER OF PENETRATIONS THROUGH ACOUSTICALLY SENSITIVE SPACES / CONSTRUCTION ASSEMBLIES. SEAL ALL JOINTS AND VOIDS AROUND PENETRATING ITEMS IN STC RATED FLOOR, WALL, AND CEILING SYSTEMS WITH ACOUSTIC SEALANT INCLUDING BUT NOT LIMITED TO FLOOR AND WALL OUTLETS / JUNCTION BOXES, PIPING, LIGHT FIXTURES, SPRINKLER PIPING, SUPPORT HANGERS, AND CONDUIT. SEE DRAWINGS FOR LOCATIONS OF STC RATED CONSTRUCTION.

TRANSITIONS

1. LOCATE TRANSITION STRIPS (IF REQUIRED) CENTERED BENEATH DOOR LEAF.
2. AT TRANSITIONS BETWEEN DISSIMILAR FLOOR FINISHES PROVIDE APPROPRIATE TRANSITION STRIP, TO BE APPROVED BY ARCHITECT.
3. PROVIDE ALUMINUM TRANSITION STRIP WHERE DISSIMILAR FLOOR FINISHES MEET - TYPICAL. COLOR BY ARCHITECT.
4. AT TRANSITIONS BETWEEN CARPET AND CONCRETE FLOOR FINISHES PROVIDE VINYL SLIM LINE TYPE TRANSITION STRIP FROM MATERIAL DOWN TO CONCRETE EQ. TO JOHNSONITE SLT SERIES, EXACT TRANSITION STRIP AND COLOR TO BE APPROVED BY ARCHITECT.

COATINGS

1. REFERENCE WALL FINISH (WF) TYPES FOR TYPICAL COATING COLORS AND TYPES.
2. PAINT STEEL ITEMS EXPOSED TO VIEW, UNLESS OTHERWISE NOTED.
3. ALL EXPOSED STEEL IN EXTERIOR APPLICATIONS SHALL BE HOT-DIP GALVANIZED, U.N.O. WHERE NOTED TO BE PAINTED, PAINT WITH HIGH PERFORMANCE COATINGS IN LIEU OF HOT-DIP GALVANIZING.
4. ISOLATE DISSIMILAR MATERIALS TO PREVENT GALVANIC CORROSION.
5. PAINT EXPOSED DECK ABOVE LOWERED CEILING CLOUDS AND TRANSPARENT CEILINGS- TYP.
6. GYP BD WALLS RECEIVING PAINT SHALL BE IN EGGSHELL FINISH, UNLESS NOTED OTHERWISE. GYP BD. CEILING SURFACES SHALL BE PAINTED IN FLAT FINISH, UNO.
7. PAINT ACCESS PANELS, GRILLES, FIRE EXTINGUISHER CABINETS (UNLESS STAINLESS), RADIATORS, AND DIFFUSERS TO MATCH THE WALL OR CEILING ON WHICH THEY OCCUR, U.N.O.
8. PAINT EXPOSED MECHANICAL, ELECTRICAL, FIRE PROTECTION, AND PLUMBING EQUIPMENT UNLESS NOTED OTHERWISE. PAINT TO MATCH CEILING SURFACE ON WHICH THEY OCCUR. TYP.
9. PRIME AND PAINT ALL HOLLOW METAL DOORS / FRAMES. PAINT HOLLOW METAL DOORS AND FRAMES TO MATCH COLOR ON WALL IN WHICH THEY OCCUR, U.N.O. SEE FINISH PLAN AND DOOR SCHEDULE.
10. REFERENCE DOOR SCHEDULE FOR FRAME AND DOOR FINISH.
11. WHERE ADJACENT MATERIALS ARE DISSIMILAR MASK OFF DISSIMILAR MATERIALS FOR PAINTING.
12. INTERIOR AND EXTERIOR EXPOSED STEEL STRUCTURE AND DECK TO BE PAINTED, U.N.O. STEEL STRUCTURE SHALL INCLUDE SUPPORTING BEAMS, COLUMNS, AND CONNECTIONS BELOW THE PLANE OF THE DECK - TYPICAL. DECK SHALL INCLUDE THE UNDERSIDE OF A FLOOR AND ROOF SURFACES - TYPICAL. STEEL ANGLES OR PLATES IN THE PLANE OF THE DECK SHALL BE CONSIDERED PART OF THE DECK. EQUIPMENT, MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS MOUNTED OVERHEAD TO STRUCTURE AND DECK SHALL BE PAINTED TO MATCH THE COLOR OF THE SURFACE HUNG FROM, U.N.O.
13. SHEET METAL FABRICATIONS AND FLASHING SHALL BE PRE-FINISHED - SEE SPECIFICATIONS AND ELEVATIONS. COLOR BY ARCHITECT, U.N.O.
14. METAL WALL, SOFFITS, AND CEILING PANELS SHALL BE PRE-FINISHED - SEE SPECIFICATIONS. COLOR BY ARCHITECT, U.N.O.
15. EXPOSED WOOD FURRING / BLOCKING SHALL BE PAINTED, U.N.O.
16. PREP FLOOR SLABS TO RECEIVE FLOOR FINISH PER FINISH PLAN AND FLOOR FINISH MANUFACTURER RECOMMENDATIONS.
17. PAINT METAL CLOSURES, WALL ANGLES, REVEALS, AND MISCELLANEOUS TRIM IN CEILING TO MATCH CEILING. U.N.O.

DIVISION 10 - SPECIALTIES

1. FIRE EXTINGUISHERS SHALL BE MULTI-PURPOSE DRY-CHEMICAL TYPE U.L. RATED 2-A:10-B:C. 5LB, U.N.O. SEE SPECIFICATIONS.
2. F.E.C. INDICATES LOCATION OF FIRE EXTINGUISHER CABINET. MOUNT TOP OF FIRE EXTINGUISHER CABINETS AT 48" A.F.F., U.N.O.

DIVISION 11 - EQUIPMENT

1. COORDINATE INSTALLATION OF EQUIPMENT, FURNITURE, AUDIO / VISUAL EQUIPMENT WITH MANUFACTURER'S RECOMMENDATIONS. COORDINATE ALL ATTACHMENT REQUIREMENTS AND PROVIDE ALL ASSOCIATED COMPONENTS FOR COMPLETE SYSTEM INSTALLATION.
2. VERIFY WITH ARCHITECT LOCATION OF VISIBLE CEILING ELEMENTS NOT SHOWN ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
3. EQUIPMENT IS TO BE BY OWNER U.N.O. COORDINATE WITH OWNER FOR EXACT REQUIREMENTS.

DIVISION 12 - FIRE SUPPRESSION

1. SUSPENDED CEILING SUPPORT SYSTEMS ARE NOT DESIGNED OR INTENDED TO SUPPORT THE WEIGHT OF ADDITIONAL EQUIPMENT, CABLING, PIPING, MECHANICAL EQUIPMENT, OR OTHER CONSTRUCTION. VERIFY CAPACITY OF SUPPORT SYSTEMS PRIOR TO INSTALLATION OR SUPPORT THESE ITEMS INDEPENDENTLY FROM THE STRUCTURE ABOVE.
2. VERIFY WITH ARCHITECT LOCATION OF VISIBLE CEILING ELEMENTS NOT SHOWN ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
3. DEVICES AND ACCESS PANELS ARE NOT ALLOWED IN ACCENT WALLS OR ACCENT CEILING PANELS, U.N.O. COORDINATE WITH ALL AFFECTED TRADES TO LOCATE NEEDED ACCESS POINTS ABOVE CEILING IN ADJACENT ROOMS / AREAS.
4. ALL ELECTRICAL PLUMBING, FIRE PROTECTION, AND MECHANICAL ITEMS (LIGHT FIXTURES, DIFFUSERS, SPRINKLERS, DEVICES AND EQUIPMENT) ON MEP DRAWINGS ARE SHOWN DIAGRAMMATICALLY. VERIFY ALL ITEMS (TYPES, SIZES, AND LOCATIONS) WITH ARCHITECTURAL DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
5. THIS PROJECT SHALL BE SERVED BY AN AUTOMATIC FIRE SPRINKLER SYSTEM. FIRE SPRINKLER SYSTEMS SHALL BE CONFIGURED AS REQUIRED TO MAINTAIN CODE REQUIRED COVERAGE. COORDINATE ANY INTERRUPTIONS OF SERVICE AND CONNECTIONS / ADJUSTMENTS WITH EXISTING EMERGENCY MANAGEMENT SYSTEMS WITH OWNER. SEE SPECIFICATIONS.
6. SPRINKLER HEADS AND PIPING THAT ARE INDICATED ON ARCHITECTURAL AND M.E.P. DRAWINGS ARE SHOWN TO INDICATE GENERAL DESIGN INTENT. DRAWINGS DO NOT SHOW ALL SPRINKLER HEAD OR PIPING LOCATIONS. CONTRACTOR IS TO COORDINATE WITH ARCHITECT AND FIRE SPRINKLER DESIGNER / INSTALLER PRIOR TO CREATING SHOP DRAWINGS. SPRINKLER SUBCONTRACTOR SHALL FOLLOW DESIGN INTENT AS INDICATED BY ARCHITECT PRIOR TO DESIGN OF THE SPRINKLER SYSTEM, ESPECIALLY IN LOCATIONS THAT ARE OF VISUAL IMPORTANCE. COORDINATE WITH ARCHITECT, M.E.P., FIRE PROTECTION SPECIFICATIONS, AND THE BUILDING CODE TO DETERMINE FINAL NUMBER AND LOCATION OF HEADS, PIPE ROUTING, ACCESS LOCATIONS, AND OTHER REQUIREMENTS. FINAL LOCATIONS OF PIPE ROUTING AND SPRINKLER HEADS, AS WELL AS HEAD TYPE, SHALL BE COORDINATED, REVIEWED, AND APPROVED THROUGH SHOP DRAWINGS BY ARCHITECT AND M.E.P. ENGINEER TO MEET THE ARCHITECT'S DESIGN INTENT, WHETHER EXPLICITLY INDICATED IN DRAWINGS OR NOT. COORDINATE MOUNTING REQUIREMENTS WITH STRUCTURE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE CODE PLAN, BUILDING SECTIONS, AND INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION AT EXPOSED LOCATIONS.
7. SPRINKLER PIPING SERVING LOWERED CEILING AREAS IS TO BE CONCEALED FROM VIEW AND LOCATED AWAY FROM EDGES AND WITHIN / ABOVE LOWERED CEILING FRAMING - TYPICAL. EXPOSED DROPS EXTENDING FROM EXPOSED SPRINKLER PIPING ABOVE TO CONCEALED PIPING IN LOWERED CEILING AREAS BELOW ARE NOT ALLOWED, U.N.O. HOLD DROPS TO LOWERED CEILING AREAS AWAY FROM LOWERED CEILING EDGES AND OUT OF VIEW.
8. WHERE EXPOSED TO VIEW ON ROOF / CEILING DECK: ROUTE SPRINKLER PIPING AS TIGHT TO STRUCTURE / DECK AS POSSIBLE. PROVIDE LAYOUT WITH MINIMUM NUMBER OF SWEEPS / BENDS AROUND/BELOW BEAMS, WITH MAIN LINES AND TRANSITIONS TO BRANCH LINES LOCATED ALONG WALLS - TYP.
9. LOCATE DRAINS / VALVES ABOVE ACCESSIBLE CEILINGS OR IN INCONSPICUOUS AREAS. DO NOT LOCATE DRAINS ABOVE GYP. CEILINGS OR IN EXPOSED CEILING.
10. WHERE EXPOSED TO VIEW: ROUTE SPRINKLER PIPING JUST BELOW OR ALONGSIDE BEAMS, TIGHT TO BEAM, AS HIGH AS POSSIBLE - TYPICAL. MOUNT PIPING/SPRINKLER HEADS CENTERED ON OR BETWEEN BEAMS WITH ANCHOR OR CLAMP TYPE HANGERS - TYPICAL. PIPING SHALL MAINTAIN STRAIGHT RUNS WITH STRAIGHT DROPS AND A MINIMUM NUMBER OF BENDS WITH MINIMUM REQUIRED RADIUS OR MECHANICAL "T" CONNECTIONS. PIPING TRANSITIONS AND BENDS SHALL BE CONCEALED WHEREVER POSSIBLE. PROVIDE PENDANT TYPE SPRINKLER HEADS AT EXPOSED PIPING - TYP.
11. PROVIDE CONCEALED PENDANT TYPE SPRINKLER HEAD WITH FLUSH COVER PLATES IN ACOUSTIC LAY-IN CEILINGS, GYPSUM BOARD CEILINGS, AND EXTERIOR SOFFITS - TYPICAL. COVER PLATES SHALL MATCH THE COLOR OF THE SURFACE IN WHICH THEY OCCUR - TYP.
12. LOCATE SPRINKLER HEADS AND OTHER DEVICES LOCATED IN ACOUSTICAL PANEL CEILING IN THE CENTER OF THE ACOUSTICAL CEILING PANEL, U.N.O.

DIVISION 22 - PLUMBING

1. SUSPENDED CEILING SUPPORT SYSTEMS ARE NOT DESIGNED OR INTENDED TO SUPPORT THE WEIGHT OF ADDITIONAL EQUIPMENT, CABLING, PIPING, MECHANICAL EQUIPMENT, OR OTHER CONSTRUCTION. VERIFY CAPACITY OF SUPPORT SYSTEMS PRIOR TO INSTALLATION OR SUPPORT THESE ITEMS INDEPENDENTLY FROM THE STRUCTURE ABOVE.
2. VERIFY WITH ARCHITECT LOCATION OF VISIBLE CEILING ELEMENTS NOT SHOWN ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
3. DEVICES AND ACCESS PANELS ARE NOT ALLOWED IN ACCENT WALLS OR ACCENT CEILING PANELS, U.N.O. COORDINATE WITH ALL AFFECTED TRADES TO LOCATE NEEDED ACCESS POINTS ABOVE CEILING IN ADJACENT ROOMS / AREAS.
4. ALL ELECTRICAL PLUMBING, FIRE PROTECTION, AND MECHANICAL ITEMS (LIGHT FIXTURES, DIFFUSERS, SPRINKLERS, DEVICES AND EQUIPMENT) ON MEP DRAWINGS ARE SHOWN DIAGRAMMATICALLY. VERIFY ALL ITEMS (TYPES, SIZES, AND LOCATIONS) WITH ARCHITECTURAL DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
5. AT FLOOR MOUNTED MOP AND UTILITY SINKS LOCATED AGAINST WALL(S), PROVIDE 16" TALL STAINLESS STEEL BACKSPLASH FOR WIDTH OF UNIT.

DIVISION 23 - HEATING, VENTILATING, & AIR CONDITIONING

1. PROVIDE PREFABRICATED CURBS AND STANDS AND CONCRETE PADS FOR MECHANICAL UNITS, U.N.O. COORDINATE EXACT SIZE, TYPE, AND STRUCTURAL CAPACITIES WITH PRODUCT REQUIREMENTS, MECHANICAL ENGINEER, STRUCTURAL ENGINEER, AND ARCHITECT.
2. COORDINATE MECHANICAL UNIT LOCATIONS WITH REFLECTED CEILING PLAN AND LIGHT FIXTURE LOCATIONS.
3. DO NOT INSTALL DUCTWORK BELOW LIGHT FIXTURES. COORDINATE DUCTWORK RUNS WITH LIGHT FIXTURE LOCATIONS PRIOR TO INSTALLATION.
4. SUSPENDED CEILING SUPPORT SYSTEMS ARE NOT DESIGNED OR INTENDED TO SUPPORT THE WEIGHT OF ADDITIONAL EQUIPMENT, CABLING, PIPING, MECHANICAL EQUIPMENT, OR OTHER CONSTRUCTION. VERIFY CAPACITY OF SUPPORT SYSTEMS PRIOR TO INSTALLATION OR SUPPORT THESE ITEMS INDEPENDENTLY FROM THE STRUCTURE ABOVE.
5. VERIFY WITH ARCHITECT LOCATION OF VISIBLE CEILING ELEMENTS NOT SHOWN ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
6. DEVICES AND ACCESS PANELS ARE NOT ALLOWED IN ACCENT WALLS OR ACCENT CEILING PANELS, U.N.O. COORDINATE WITH ALL AFFECTED TRADES TO LOCATE NEEDED ACCESS POINTS ABOVE CEILING IN ADJACENT ROOMS / AREAS.
7. ALL ELECTRICAL PLUMBING, FIRE PROTECTION, AND MECHANICAL ITEMS (LIGHT FIXTURES, DIFFUSERS, SPRINKLERS, DEVICES AND EQUIPMENT) ON MEP DRAWINGS ARE SHOWN DIAGRAMMATICALLY. VERIFY ALL ITEMS (TYPES, SIZES, AND LOCATIONS) WITH ARCHITECTURAL DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
8. VERIFY THAT AIR DEVICES FIT IN CEILING AS INDICATED BEFORE PROCEEDING WITH FRAMING CEILING. NOTIFY ARCHITECT IF RELOCATION IS REQUIRED OR IF SHIFTING OF GRID OR OTHER ELEMENTS ARE NECESSARY.
9. MECHANICAL EQUIPMENT SHALL BE LOCATED A MINIUM OF 10'-0" AWAY FROM ADJACENT ROOF EDGES, UNLESS PROTECTED BY A PARAPET OR GUARDRAIL MEASURING 42" IN HEIGHT MINIMUM.

DIVISION 26 - ELECTRICAL

1. IN ARCHITECTURAL DRAWINGS, LIGHTING FIXTURES ARE DIMENSIONED TO CENTER OF FIXTURE OR BOTTOM OF FIXTURE, U.N.O.
2. LOCATE EXIT SIGNS, LIGHT FIXTURES, AUDIO-VISUAL DEVICES, AND OTHER DEVICES LOCATED IN ACOUSTICAL PANEL CEILING IN THE CENTER OF THE ACOUSTICAL CEILING PANEL, U.N.O.
3. REFER TO INTERIOR ELEVATIONS, BUILDING SECTIONS, AND BUILDING ELEVATIONS FOR MOUNTING HEIGHT OF WALL MOUNTED FIXTURES.
4. CENTER DOWN-LIGHTS IN GYPSUM BOARD CEILINGS IN BOTH DIRECTIONS AND ALIGN WITH ADJACENT DOWN LIGHTS U.N.O.
5. DO NOT INSTALL LIGHT FIXTURES ABOVE DUCTWORK. COORDINATE LIGHT FIXTURE LOCATIONS WITH DUCTWORK RUNS PRIOR TO INSTALLATION.
6. DEVICES AND ACCESS PANELS ARE NOT ALLOWED IN ACCENT WALLS OR ACCENT CEILING PANELS, U.N.O. COORDINATE WITH ALL AFFECTED TRADES TO LOCATE NEEDED ACCESS POINTS ABOVE CEILING IN ADJACENT ROOMS / AREAS.
7. DO NOT INSTALL OUTLETS OR J-BOXES BACK-TO-BACK ON OPPOSITE SIDES OF WALL. BOXES MUST BE SEPARATED BY A MINIMUM OF ONE STUD.
8. EXPOSED CONDUIT IS TYPICALLY NOT ALLOWED IN NEW CONSTRUCTION BUT IS ALLOWED IN LOCATIONS WITH EXPOSED CEILING STRUCTURE AND AT EXISTING MASONRY / CONCRETE WALL CONSTRUCTION. ELECTRICAL CONTRACTOR SHALL CONCEAL CONDUIT WHEREVER POSSIBLE. PLASTIC CONDUIT AND FLEXIBLE METAL CONDUIT ARE NOT ALLOWED IN EXPOSED LOCATIONS. EXPOSED CONDUIT ROUTED TO LIGHT FIXTURES AND OTHER ELECTRICAL DEVICES ON EXPOSED ROOF DECK, STRUCTURE, WALL SURFACES, AND CEILINGS SHALL BE ROUTED TIGHT TO SURFACES IN STRAIGHT LINES WITH MINIMUM BENDS AT MINIMUM REQUIRED RADIUS PER UL STANDARDS. HORIZONTAL RUNS ACROSS WALL SURFACES ARE NOT ALLOWED. WHERE REQUIRED TO BE EXPOSED ON WALL SURFACES, CONDUIT SHALL EXTEND STRAIGHT UP FROM FLOOR BELOW OR STRAIGHT DOWN FROM CEILING ABOVE (WHICHEVER IS NEAREST)- TYP. VERIFY ALL LOCATIONS OF EXPOSED CONDUITS THAT ARE NOT SHOWN IN MEP DRAWINGS WITH ARCHITECT PRIOR TO INSTALLING.
9. CONCEAL CONDUIT WITHIN WALL AND CEILING CAVITIES, ALONG STRUCTURE, OR BETWEEN METAL DECKING RIBS WHEREVER POSSIBLE. NOTIFY ARCHITECT OF ANY EXPOSED CONDUIT AND COORDINATE ROUTING - TYP. COORDINATE LOCATIONS OF ALL EXPOSED JUNCTION BOXES WITH ARCHITECT.
10. SUSPENDED CEILING SUPPORT SYSTEMS ARE NOT DESIGNED OR INTENDED TO SUPPORT THE WEIGHT OF ADDITIONAL EQUIPMENT, CABLING, PIPING, MECHANICAL EQUIPMENT, OR OTHER CONSTRUCTION. VERIFY CAPACITY OF SUPPORT SYSTEMS PRIOR TO INSTALLATION OR SUPPORT THESE ITEMS INDEPENDENTLY FROM THE STRUCTURE ABOVE.
11. VERIFY WITH ARCHITECT LOCATION OF VISIBLE CEILING ELEMENTS NOT SHOWN ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
12. ALL ELECTRICAL PLUMBING, FIRE PROTECTION, AND MECHANICAL ITEMS (LIGHT FIXTURES, DIFFUSERS, SPRINKLERS, DEVICES AND EQUIPMENT) ON MEP DRAWINGS ARE SHOWN DIAGRAMMATICALLY. VERIFY ALL ITEMS (TYPES, SIZES, AND LOCATIONS) WITH ARCHITECTURAL DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION.

DIVISION 27 - COMMUNICATIONS

1. SUSPENDED CEILING SUPPORT SYSTEMS ARE NOT DESIGNED OR INTENDED TO SUPPORT THE WEIGHT OF ADDITIONAL EQUIPMENT, CABLING, PIPING, MECHANICAL EQUIPMENT, OR OTHER CONSTRUCTION. VERIFY CAPACITY OF SUPPORT SYSTEMS PRIOR TO INSTALLATION OR SUPPORT THESE ITEMS INDEPENDENTLY FROM THE STRUCTURE ABOVE.
2. VERIFY WITH ARCHITECT LOCATION OF VISIBLE CEILING ELEMENTS NOT SHOWN ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
3. DEVICES AND ACCESS PANELS ARE NOT ALLOWED IN ACCENT WALLS OR ACCENT CEILING PANELS, U.N.O. COORDINATE WITH ALL AFFECTED TRADES TO LOCATE NEEDED ACCESS POINTS ABOVE CEILING IN ADJACENT ROOMS / AREAS.
4. COORDINATE EXACT MOUNTING, POWER, AND DATA REQUIREMENTS FOR CEILING HUNG EQUIPMENT AND AUDIO / VISUAL DEVICES WITH OWNER, PRODUCT MANUFACTURERS, AND CEILING SYSTEMS.

DIVISION 28 - ELECTRONIC SAFETY & SECURITY

1. WALL AND CEILING MOUNTED FIRE ALARM DEVICES AND DETECTORS SHALL BE WHITE IN COLOR WITH RED COLORED LETTERS - TYP, U.N.O.
2. EXIT SIGNS AND SMOKE DETECTORS LOCATED IN HARD CEILINGS SHALL BE POSITIONED AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION AND SHALL BE CENTERED IN CORRIDORS AND LOCATED A DISTANCE OF 1'-0" FROM THE WALL TO THE CENTER OF THE FIXTURE UNLESS NOTED OTHERWISE.
3. SUSPENDED CEILING SUPPORT SYSTEMS ARE NOT DESIGNED OR INTENDED TO SUPPORT THE WEIGHT OF ADDITIONAL EQUIPMENT, CABLING, PIPING, MECHANICAL EQUIPMENT, OR OTHER CONSTRUCTION. VERIFY CAPACITY OF SUPPORT SYSTEMS PRIOR TO INSTALLATION OR SUPPORT THESE ITEMS INDEPENDENTLY FROM THE STRUCTURE ABOVE.
4. VERIFY WITH ARCHITECT LOCATION OF VISIBLE CEILING ELEMENTS NOT SHOWN ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
5. DEVICES AND ACCESS PANELS ARE NOT ALLOWED IN ACCENT WALLS OR ACCENT CEILING PANELS, U.N.O. COORDINATE WITH ALL AFFECTED TRADES TO LOCATE NEEDED ACCESS POINTS ABOVE CEILING IN ADJACENT ROOMS / AREAS.
6. ALL ELECTRICAL PLUMBING, FIRE PROTECTION, AND MECHANICAL ITEMS (LIGHT FIXTURES, DIFFUSERS, SPRINKLERS, DEVICES AND EQUIPMENT) ON MEP DRAWINGS ARE SHOWN DIAGRAMMATICALLY. VERIFY ALL ITEMS (TYPES, SIZES, AND LOCATIONS) WITH ARCHITECTURAL DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
7. LOCATE CEILING STROBES, AUDIO-VISUAL DEVICES, SECURITY DEVICES, SMOKE DETECTORS, AND OTHER DEVICES LOCATED IN ACOUSTICAL PANEL CEILING IN THE CENTER OF THE ACOUSTICAL CEILING PANEL, U.N.O.

DIVISION 31 - EARTHWORK

EARTH MOVING

1. ALL ELEVATIONS ARE BASED ON INFORMATION PROVIDED IN A SURVEY BY THE OWNER. FIELD VERIFY THE RELATIONSHIP BETWEEN EXISTING GRADES AND EXISTING OR PROPOSED FLOOR ELEVATIONS PRIOR TO BEGINNING CONSTRUCTION. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY.
2. THE CONTRACTOR SHALL USE CAUTION AROUND ANY EXISTING UTILITIES LOCATED ON SITE. THEY SHALL BE RESPONSIBLE FOR THE REPAIRS OF ANY SUCH STRUCTURES WHEN BROKEN OR OTHERWISE DAMAGED BY THE NEW CONSTRUCTION.
3. THE CONTRACTOR SHALL ADDRESS ANY SOILS, GRADING, PAVING, FOUNDATION, ETC. RECOMMENDATIONS IF IDENTIFIED IN A GEOTECHNICAL INVESTIGATION. SEE SPECIFICATIONS.
4. STRIPPINGS ARE TO BE STOCKPILED ON-SITE. COORDINATE STOCKPILE LOCATION WITH ARCHITECT AND OWNER. FOLLOWING THE COMPLETION OF THE GRADING, THIS TOPSOIL SHALL BE USED AS FILL MATERIAL ON ALL LANDSCAPED AREAS. IF STOCKPILE IS INACTIVE FOR MORE THAN 14 DAYS, STABILIZE OR PROTECT.

EROSION & SEDIMENTATION CONTROLS

1. EROSION CONTROL IS THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION & SEDIMENT CONTROL MEASURES AND PRACTICES THROUGHOUT THE PROJECT. ANY AND ALL FINES ASSOCIATED WITH EROSION CONTROL VIOLATIONS WILL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVISED AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED WITH A HEALTHY STAND OF PERMANENT VEGETATION.
2. CONTRACTOR RESPONSIBLE FOR EROSION CONTROL IN ALL SEEDED OR SODDED AREAS. ALL DISTURBED AREAS ARE TO BE PROTECTED WITHIN 24 HOURS. DO NOT DISTURB MORE AREA THAN CAN BE COMPLETED AND PROTECTED WITHIN 24 HOURS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE SEDIMENT CONTROL BARRIERS FOR A PERIOD OF 1 YEAR OR UNTIL THEY ARE RELEASED FROM THIS RESPONSIBILITY BY THE ARCHITECT.
4. CONTRACTOR RESPONSIBLE FOR RESTORATION OF ANY UNAUTHORIZED DISRUPTION OUTSIDE OF DESIGNATED CONSTRUCTION AREA TO ORIGINAL CONDITION.

DIVISION 32 - EXTERIOR IMPROVEMENTS

PAVING

1. DO NOT SCALE DRAWINGS. COMPARE ALL LAYOUT DIMENSIONS AND CONTROL JOINT LAYOUTS WITH ARCHITECTURAL SITE PLAN AND CIVIL PLANS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
2. REFER TO SITE PLAN AND CIVIL FOR STRIPING AND SIGNAGE LOCATIONS.
3. MAINTAIN EXISTING SURFACE DRAINAGE PATTERNS, UNLESS OTHERWISE NOTED. CONTACT ARCHITECT IMMEDIATELY IF NEW DRAINAGE IS DESIRED.
4. THE PROPOSED ARCHITECTURAL CONTOURS / SPOT ELEVATIONS REPRESENT TOP OF SLAB IN PAVEMENT AREAS AND FINISHED GRADE IN ALL OTHER AREAS.
5. ALL HANDICAP ACCESSIBLE RAMPS AND ROUTES MUST NOT EXCEED 8.33% RUNNING SLOPE AND 2.00% CROSS SLOPE AND SHALL MEET ALL FEDERAL AND STATE REQUIREMENTS.
6. ALL WALKWAY SURFACES SHALL BE BELOW 5% RUNNING SLOPE (UNLESS A RAMP) AND BELOW 2% CROSS SLOPE.
7. ALL EXTERIOR PAVING FINISH FLOOR ELEVATION AT BUILDING FACADE SHALL BE 1/8" MIN., 1/4" MAX. BELOW BUILDING FINISH FLOOR ELEVATION, TYP.
8. ALL FINISH GRADE AND PAVING SHALL SLOPE AWAY FROM THE BUILDING.
9. THE CONTRACTOR SHALL CLEAN ROADWAYS AND SIDEWALK OF DEPOSITED MUD AND DEBRIS AT ALL TIMES AND AS DETERMINED BY THE ARCHITECT OR OWNER TO KEEP THEM CLEAN AND USEABLE AND TO CONTROL DUST.
10. SIDEWALK CONCRETE SHALL BE 4" THICK CONCRETE SLAB WITH BROOM FINISH PERPENDICULAR TO TRAFFIC U.N.O. PROVIDE CROSS SLOPE FOR POSITIVE DRAINAGE. MAXIMUM CROSS SLOPE TO BE 2%. TOOL ALL EDGES WITH 1/4" RADIUS. SIDEWALKS SHALL BE OVER 4" COURSE AGGREGATE BASE COMPACTED TO 95% OF MAXIMUM PROCTOR DENSITY U.N.O. REF. CIVIL AND LANDSCAPE.
11. CONSTRUCTION JOINTS SHALL RECEIVE #4 DOWELS AT 18" O.C. GREASE DOWEL ONE END, TO ALLOW MOVEMENT. IN CASES WHERE A NEW SLAB JOINS AN EXISTING SLAB, DRILL THE EXISTING SLAB TO RECEIVE DOWELS. TOOL EDGE WITH 1/4" RADIUS. PROVIDE CONTINUOUS CAULK JOINT.
12. EXPANSION JOINTS EVERY 30'-0" MAX. IN CONCRETE SLABS.
13. CONTRACTION JOINTS AT 20'-0" MAX. INTERVALS, EXPANSION JOINTS AT ALL POINTS OF BEGINNING CURVATURE AND TANGENCY.
14. CONTRACTION JOINT SHALL BE TOOLED CONTROL JOINT WITH 1/4" RADIUS EACH SIDE. SPACE AT DISTANCES EQUAL TO SIDEWALK WIDTH OR AS INDICATED ON PLANS.
15. CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN HORIZONTAL AND VERTICAL CONTROL, REFERENCE POINTS AND CONSTRUCTION STAKING AS INCIDENTAL TO THE PROJECT - SEE CIVIL FOR FURTHER INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE CONSTRUCTION LAYOUT AND TO VERIFY BENCHMARKS, MONUMENTS, MARKERS, OR OTHER REFERENCE POINTS NOTED IN THE CONSTRUCTION DOCUMENTS WITH EXISTING ADJACENT STRUCTURES AND OTHER PRESENT BENCHMARKS PRIOR TO BEGINNING CONSTRUCTION. IT IS NOT THE RESPONSIBILITY OF THE ARCHITECT, CIVIL ENGINEER, OR THE ARCHITECT'S INDEPENDENT TOPOGRAPHICAL SURVEYOR TO PROVIDE ADDITIONAL BENCHMARKS OR OTHER LOCATING SERVICES FOR THE PURPOSES OF CONSTRUCTION LAYOUT / STAKING.
16. ALL AREAS WITH NEW PAVING TO RECEIVE FINAL SEAL AND STRIPE UNLESS OTHERWISE NOTED.
17. WHERE REMOVING AND REPLACING / PATCHING EXISTING PAVING, NEW PAVING TYPE SHALL MATCH EXISTING, U.N.O.
18. WHERE REMOVING AND REPLACING / PATCHING EXISTING PAVING, CLEANLY SAW CUT EDGES OF AREA TO BE REMOVED.
19. THE CONTRACTOR SHALL GRADE ALL AREAS TO DRAIN IN ORDER TO PREVENT PONDING WATER. THE MINIMUM ALLOWABLE SLOPE ON ALL PAVED SURFACES SHALL BE 1 PERCENT.
20. ALL TRENCHES UNDER PAVED AREAS SHALL BE BACKFILLED WITH GRANULAR MATERIAL AND COMPACTED. GRANULAR MATERIAL SHALL BE PLACED AND COMPACTED TO A LEVEL EQUAL TO THE TRENCH DEPTH AT THE TIME OF THE UTILITY INSTALLATION.

LANDSCAPE / PLANTING

1. REFER TO CIVIL, ARCHITECTURAL SITE PLAN, AND SPECIFICATIONS FOR SOIL/ SEED/STRAW REPLACEMENT AREAS.
2. KILL AND REMOVE ALL VEGETATION THAT IS NOT TO REMAIN, INCLUDING WEEDS FROM THE SITE AREA PRIOR TO PLANTING.
3. ALL ITEMS REMOVED SHALL BE DISPOSED OFF SITE BY THE CONTRACTOR AS PER CITY OF JONESBORO REQUIREMENTS.
4. ALL HARDSCAPING MATERIAL TYPES, COLORS, FINISHES, AND PROCESSES SHALL BE SELECTED AND APPROVED BY ARCHITECT. CONTRACTOR TO PROVIDE SAMPLES AND MOCK-UPS OF ALL MATERIALS FOR APPROVAL. COLORS TO BE REVIEWED AND APPROVED BY OWNER. THIS SHALL INCLUDE SAMPLES OF:
   A. ALL JOINTS, SEALANTS, AND COLORS
   B. STAMPED, TEXTURED, OR COLORED CONCRETE PAVING
   C. PLANT MATERIAL
   D. BOULDERS
   E. MULCHING AND GRAVEL
   F. EDGING MATERIAL
5. ALL BOULDERS AND PAVING TO BE LAID OUT IN THE FIELD BY THE CONTRACTOR FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO ANY CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETELY MAINTAINING THE WORK (INCLUDING BUT NOT LIMITED TO WATERING, MULCHING, SPRAYING, FERTILIZING, ETC.) OF ALL PLANTING AND TURF AREAS UNTIL TOTAL ACCEPTANCE OF THE WORK BY THE ARCHITECT AND OWNER. IF IRRIGATION SYSTEM IS INSTALLED AS PART OF THIS PROJECT, SYSTEM MUST BE INSTALLED, TESTED, AND APPROVED BEFORE PLANTING WORK WILL BE ACCEPTED.
7. LANDSCAPE CONTRACTOR SHALL NOT BEGIN WORK UNTIL SITE PREPARATION BY OTHERS IS COMPLETE AND ACCEPTABLE (IN AREAS TO RECEIVE LANDSCAPING).
8. SEE CIVIL AND LANDSCAPE FOR FURTHER INFORMATION REGARDING TURF AREAS, PLANTINGS, AND SITE FEATURES.
9. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS PERTAINING TO THE INSPECTION FOR PLANT DISEASE AND INSECT INFESTATION.
10. LANDSCAPING SHOWN ON PLANS IS TO ESTABLISH DESIGN INTENT AND DEFINE BOUNDARIES FOR AREAS TO RECEIVE LANDSCAPING. LANDSCAPE CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR A COMPLETE FINAL LANDSCAPE DESIGN TO THE ARCHITECT FOR REVIEW. INCLUDE PLANTING SPECIES, LOCATIONS, AND SPACING. ALSO INCLUDE ALL PLANTING BED BOUNDARIES, ACCESSORIES AND FINISHING MATERIALS - SEE SPECIFICATIONS.
11. PLANT MATERIAL QUANTITIES ARE PROVIDED FOR GENERAL SCOPE DEFINING PURPOSES ONLY. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITIES AS SHOWN ON PLANS.
12. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITY LINES AND OTHER UNDERGROUND OBSTRUCTIONS SO THAT PROPER PRECAUTIONS ARE TAKEN NOT TO DISTURB OR DAMAGE SUCH IMPROVEMENTS. REFER TO CIVIL AND MEP DRAWINGS FOR PROPOSED UTILITY LOCATIONS AND EXTERIOR LIGHTING LOCATIONS.
13. THE STANDARDS SET FORTH IN 'AMERICAN STANDARDS FOR NURSERY STOCK' REPRESENT GENERAL GUIDELINE SPECIFICATIONS ONLY AND WILL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
14. ALL TREES AND SHRUBS SHALL EQUAL OR SURPASS AMERICAN STANDARDS FOR NURSERY STOCK ANSI Z60.1, 2004 FOR SIZE AND QUALITY.
15. ALL PLANTING AREAS SHALL RECEIVE A MINIMUM OF 4" DEPTH OF IMPORTED OR STOCKPILED SUITABLE TOPSOIL U.N.O. REFER TO SPECIFICATIONS.
16. ANY MATERIAL WHICH DIES OR DEFOLIATES (PRIOR TO ACCEPTANCE OF THE WORK) SHALL BE IMMEDIATELY REMOVED AND REPLACED.
17. THE CONTRACTOR SHALL STAKE OR MARK ALL PLANT MATERIAL LOCATIONS AND HAVE THE ARCHITECT APPROVE PRIOR TO INSTALLATION.
18. OWNER'S REPRESENTATIVE SHALL APPROVE ALL PLANT MATERIAL AND PLACEMENT PRIOR TO INSTALLATION. CONTACT OWNER'S REPRESENTATIVE AT LEAST TWO (2) WEEKS PRIOR TO REVIEW.
19. CONTRACTOR SHALL VERIFY THE PLANT MATERIAL IS PROPERLY LABELED, IS OF PROPER SIZE, HAS A WELL DEVELOPED BRANCH AND ROOT STRUCTURE, AND IS IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF NURSERYMEN. DO NOT PRUNE PLANT MATERIAL PRIOR TO DELIVERY WITHOUT SPECIFIC APPROVAL BY OWNER'S REPRESENTATIVE. COMPLY WITH THE FOLLOWING:
   A. PLANTS ARE SUBJECT TO OWNER'S REPRESENTATIVE INSPECTION FOR SIZE, VARIETY, CONDITION, LATENT DEFECTS, AND INJURY AT THE PLACE OF GROWTH AND AT THE PROJECT SITE AT ANY TIME BEFORE AND DURING PROGRESS OF WORK.
   B. WHEN REQUESTED BY OWNER'S REPRESENTATIVE, SHOW SAMPLES TO PROVE THAT NO ROOT BOUND CONDITIONS EXIST.
   C. REMOVE REJECTED PLANTS FROM THE SITE IMMEDIATELY AND REPLACE WITH APPROVED MATERIALS.
   D. REPLACEMENT PLANTS SHALL BE THE SAME TYPE AND SIZE AS ORIGINALLY PLANTED.
20. THE OWNER OR OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL NOT MEETING SPECIFICATIONS, PLANS, OR DETAILS.
21. CONTRACTOR IS RESPONSIBLE FOR SOIL SAMPLING AND TESTING TO DETERMINE EXACT FERTILIZER REQUIREMENTS AND SHALL SUBMIT TEST RESULTS FOR OWNER'S RECORDS.
22. BACKFILL TREE AND SHRUB PITS WITH A PREPARED PLANTING MIX PER SPECIFICATIONS (THIS SHALL BE AMENDED AS SPECIFIED IN THE SOILS REPORT).
23. EDGE GRAVELED / MULCHED PLANTING BEDS WITH STEEL EDGING WHERE NOT DEFINED BY PAVING / SIDEWALKS PER DETAILS.
24. ALL DISTURBED AREAS OF THE SITE, WITH EXCEPTION OF LANDSCAPE GRAVELED, MULCHED, SODDED OR SHRUBBED AREAS, SHALL BE SEEDED WITH TURF - REF. SITE PLAN AND CIVIL. SEE SPECIFICATIONS.
25. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLANTING AND MULCHING ANY AREAS WHERE GROWTH HAS NOT BECOME ESTABLISHED DURING THE NEXT PERMANENT PLANTING SEASON.
26. THE CONTRACTOR WILL COMPLETELY GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR BEGINNING AT THE DATE OF ACCEPTANCE. CONTRACTOR SHALL MAKE ALL REPLACEMENTS IMMEDIATELY (UPON DIRECTION FROM THE OWNER / ARCHITECT).
27. LANDSCAPE CONTRACTOR SHALL NOT BEGIN WORK UNTIL SITE PREPARATION BY OTHERS IS COMPLETE AND ACCEPTABLE (IN AREAS TO RECEIVE LANDSCAPING).
28. SEED AND STRAW ALL DISTURBED AREAS - SEE SITE PLAN AND CIVIL FOR SEED BOUNDARIES. CONTRACTOR RESPONSIBLE FOR RESTORATION OF ANY UNAUTHORIZED DISRUPTION OUTSIDE OF DESIGNATED CONSTRUCTION AREA.
29. SEE CIVIL FOR FURTHER INFORMATION REGARDING TURF AREAS.
30. BED-LINES ARE TO BE SPADE CUT TO A MINIMUM DEPTH OF 3 INCHES UNLESS OTHERWISE SHOWN ON THE PLANS. CURVED BED-LINES ARE TO BE SMOOTH AND NOT SEGMENTED.
31. DO NOT LOCATE PLANTS WITHIN 10 FEET OF UTILITY STRUCTURES, OR WITHIN 5 FEET HORIZONTALLY OF UNDERGROUND UTILITY LINES UNLESS OTHERWISE SHOWN ON THE PLANS. CONSULT WITH ARCHITECT IF THESE CONDITIONS EXIST. NOTIFY ARCHITECT OF POTENTIAL CONFLICTS WITH OVERHEAD UTILITY LINES.
32. PLANTS AND OTHER MATERIALS ARE QUANTIFIED AND SHOWN FOR THE CONVENIENCE OF THE OWNER AND JURISDICTIONAL AGENCIES ONLY. CONFIRM AND INSTALL SUFFICIENT QUANTITIES TO COMPLETE THE WORK AS DRAWN AND SPECIFIED. NO ADDITIONAL PAYMENTS WILL BE MADE FOR MATERIALS REQUIRED TO COMPLETE THE WORK AS DRAWN AND SPECIFIED.
33. ALL PLANTING AREAS SHALL RECEIVE MULCH OR LANDSCAPE GRAVEL UNLESS OTHERWISE INDICATED ON LANDSCAPE / SITE PLAN.
34. SUBSTITUTIONS WILL NOT BE PERMITTED WITHOUT THE OWNER'S REPRESENTATIVE'S WRITTEN APPROVAL.
35. CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE TO THE OWNER THAT ALL TREES, SHRUBS, AND PLANT MATERIALS WILL MAINTAIN VIGOROUS AND HEALTHY GROWTH FOR THE SPECIFIED GUARANTEE PERIOD, UNLESS OTHERWISE STATED.
36. GUARANTEE PERIOD SHALL BEGIN UPON SUBSTANTIAL COMPLETION OF WORK AFTER SUCCESSFUL COMPLETION OF THE SPECIFIED MAINTENANCE PERIOD.
37. CONTRACTOR SHALL REMOVE TAGS, LABELS, NURSERY STAKES, WIRE BASKETS OR CAGES, AND TIES FROM ALL PLANTS.
38. SOIL PREPARATION, FERTILIZATION, PLANTING, AND STAKING AND GUYING SHALL CONFORM TO DETAILS AND SPECIFICATIONS.
39. CONTRACTOR SHALL COORDINATE LOCATION OF PLANT MATERIAL WITH ALL OTHER CONTRACTORS.
40. ALL PLANT PIT EXCAVATION SHALL BE PER DETAILS AND SPECIFICATIONS.
41. IF PLANTING PITS ARE EXCAVATED USING A POWER AUGER, BREAK VERTICAL SIDES WITH A BALLING BAR OR SPADE TO INTERRUPT CONTINUOUS CURVE INFLUENCE ON ROOT DEVELOPMENT.
42. BERMS AND SLOPES ADJACENT TO PAVEMENT TO BE HELD BACK FROM EDGE OF PAVING 1'-0" MINIMUM AND BE GRADED AT A MAXIMUM SLOPE OF 3:1 U.N.O.
43. CONTRACTOR SHALL REMOVE ALL EXCESS SOIL, CONTAMINATED SOILS, ROCKS, CLODS, AND DEBRIS AS IT ACCUMULATES ON A DAILY BASIS.
44. CONTRACTOR SHALL GRADE AROUND ALL PLANTS TO FINISH GRADE UNLESS OTHERWISE NOTED.
45. ALL PLANTINGS, EXCLUDING SEED AND SOD, SHALL BE HELD 3' CLEAR OF FIRE HYDRANTS.

IRRIGATION

1. IRRIGATION CONTRACTOR TO PROVIDE WATER SERVICES AND BACKFLOW PREVENTER AS REQUIRED FOR IRRIGATION SYSTEM COMPLYING WITH APPLICABLE CODES AND ORDINANCES.
2. SUBMIT SHOP DRAWINGS FOR A COMPLETE AND FUNCTIONAL IRRIGATION SYSTEM. SYSTEM TO PROVIDE HEAD TO HEAD SPACING WITH 100% COVERAGE, WITHIN THE AREA INDICATED ON PLANS.
3. LOCATE ALL VALVES AND QUICK COUPLERS ON THE INSIDE EDGE OF SHRUB BEDS WHERE PRACTICAL. INSTALL VALVE BOXES FOR BOTH QUICK COUPLERS AND VALVES. FILL ALL VALVE BOXES WITH PEA GRAVEL.
4. COMPLY WITH ALL APPLICABLE IRRIGATION CODES AND REGULATIONS.
5. SECURE AND PAY ALL PERMITS, FEES, AND INSPECTIONS NECESSARY FOR EXECUTION OF THIS WORK.
6. OBTAIN APPROVAL FROM ARCHITECT OF PIPE TRENCH AND LINE LAYOUT PRIOR TO INSTALLATION.
7. CONFIRM ALL QUANTITIES. SUPPLY SUFFICIENT QUANTITIES TO PROVIDE COMPLETE AND FUNCTIONAL IRRIGATION SYSTEM. NO ADDITIONAL PAYMENTS WILL BE MADE TO INSTALL THE WORK AS DRAWN AND SPECIFIED.
8. ROUTE ALL IRRIGATION LINES AROUND EXISTING PLANT MATERIAL TAKING EXTREME CAUTION NOT TO SEVER ROOTS OR ROOT BALLS.
9. ALL IRRIGATION LATERAL TO BE CLASS 160 PVC AND ALL IRRIGATION MAINLINES TO BE SCHEDULE 40 PVC. PROVIDE AND COORDINATE LOCATIONS OF ALL SLEEVES AS REQUIRED UNDER PAVEMENT AND WALKS.
10. IRRIGATE PLANTER BEDS IDENTIFIED ON PLAN WITH DRIP IRRIGATION SYSTEM - TYPICAL.
11. PROVIDE SEPARATE ZONES FOR EACH TYPE OF SPRAY HEAD AND EACH SEPARATE GEOGRAPHIC AREA.
12. SUPPLY WEATHERPROOF, LOCKABLE CONTROLLER CABINET, MOUNTED NEAR ELECTRICAL PANEL. PROVIDE A MINIMUM OF TWO FREE ZONES FOR FUTURE EXPANSION.
13. PROVIDE LOCKABLE QUICK COUPLERS 200 FEET ON CENTER MAXIMUM ADJACENT TO ALL SHRUB AND PERENNIAL AREAS. VERIFY LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
14. ENSURE THAT IRRIGATION HEADS DO NOT SPRAY BUILDING, SITE FURNISHINGS, SIDEWALK, OR STREET.
15. CONTRACTOR RESPONSIBLE TO PROVIDE AS-BUILT DRAWINGS TO OWNER AT TIME OF FINAL ACCEPTANCE.
16. REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL CONDITIONS, STANDARDS, AND NOTES.
17. IRRIGATE SHRUBS AND PERENNIAL BEDS WITH DRIP IRRIGATION SYSTEM. PROVIDE SEPARATE ZONES FOR EACH TYPE OF SPRAY HEAD AND EACH SEPARATE GEOGRAPHIC AREA.
18. REFERENCE CIVIL AND M.E.P. DRAWINGS FOR ADDITIONAL INFORMATION.

DIVISION 33 - SITE WORK

1. SEE CIVIL, M.E.P. AND SPECIFICATIONS FOR FULL EXTENTS OF SITE WORK.
2. SEE FLOOR PLANS AND ENLARGED SITE / LANDSCAPE PLANS FOR FURTHER INFORMATION AND DETAIL OF SITE FEATURES.
3. REFER TO CIVIL AND M.E.P. DRAWINGS FOR PROPOSED UTILITY LOCATIONS AND EXTERIOR LIGHTING LOCATIONS.
4. CONTRACTOR SHALL VERIFY ALL BOUNDARIES, TOPOGRAPHICAL INFORMATION, AND UTILITIES PRIOR TO CONSTRUCTION. AN INDEPENDENT TOPOGRAPHICAL SURVEY OF EXISTING CONDITIONS CAN BE FOUND WITHIN THESE DOCUMENTS FOR REFERENCE. SURFACE FEATURES, ELEVATIONS, AND THE LOCATIONS OF UNDERGROUND FACILITIES, UTILITIES, AND STRUCTURES SHOWN ON PLANS WERE INDICATED IN THIS SURVEY PROVIDED TO THE ARCHITECT AND TO THE BEST OF HIS/HER KNOWLEDGE CONSTITUTES ALL KNOWN FACILITIES. THEREFORE, THE RELATIONSHIP BETWEEN PROPOSED WORK AND EXISTING FACILITIES, STRUCTURES, AND UTILITIES MUST BE CONSIDERED APPROXIMATE AND THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING UTILITIES OR STRUCTURES LOCATED AT THE WORK SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION AND EXISTENCE OF ANY UTILITIES NOT SHOWN. ALL UTILITIES SHALL BE LOCATED AND MARKED BOTH HORIZONTALLY AND VERTICALLY TO ENSURE CLEARANCE OF ANY PROPOSED SITE WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT UNDERGROUND LOCATE SERVICE IN ADVANCE OF ANY EXCAVATION FOR THE MARK-OUT OF THE LOCATION OF UTILITIES AND NOTIFICATION OF COMMENCEMENT OF WORK. CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER EXISTING LINES NOT OF RECORD OR NOT SHOWN ON THE SITE PLAN. IF DISCREPANCIES ARE FOUND, NOTIFY ENGINEER AND ARCHITECT IMMEDIATELY.
5. UTILITY COMPANY REPRESENTATIVES SHALL BE ON SITE DURING TIMES OF EXCAVATION IN THE VICINITY OF THEIR FACILITIES. ANY DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS TO BE ADDRESSED TO OWNER'S REPRESENTATIVE PRIOR TO CONTINUATION OF WORK.
6. GENERAL CONTRACTOR SHALL COORDINATE ALL SITE WORK BETWEEN / WITH ELECTRICAL, PLUMBING, LANDSCAPE, IRRIGATION CONTRACTORS, AND OTHER TRADES.
7. THE CONTRACTOR SHALL ENSURE THAT ALL DRAINAGE STRUCTURES, FLUMES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
8. PROTECT ANY EXISTING UTILITY ITEMS / IN-GRADE BOXES / COVERS / MANHOLES OR CLEAN-OUTS. REINSTALL OR EXTEND TO FLUSH ACCESS W/ SURFACE OF NEW PAVEMENT / GRADE IF NECESSARY. KEEP ASPHALT AND SEALER OFF.
9. DOWNSPOUTS AND ROOF DRAINS SHALL TIE INTO STORMWATER SYSTEM - U.N.O. REFERENCE CIVIL DRAWINGS.

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Andrew Harold Wells - Architect AR #4256
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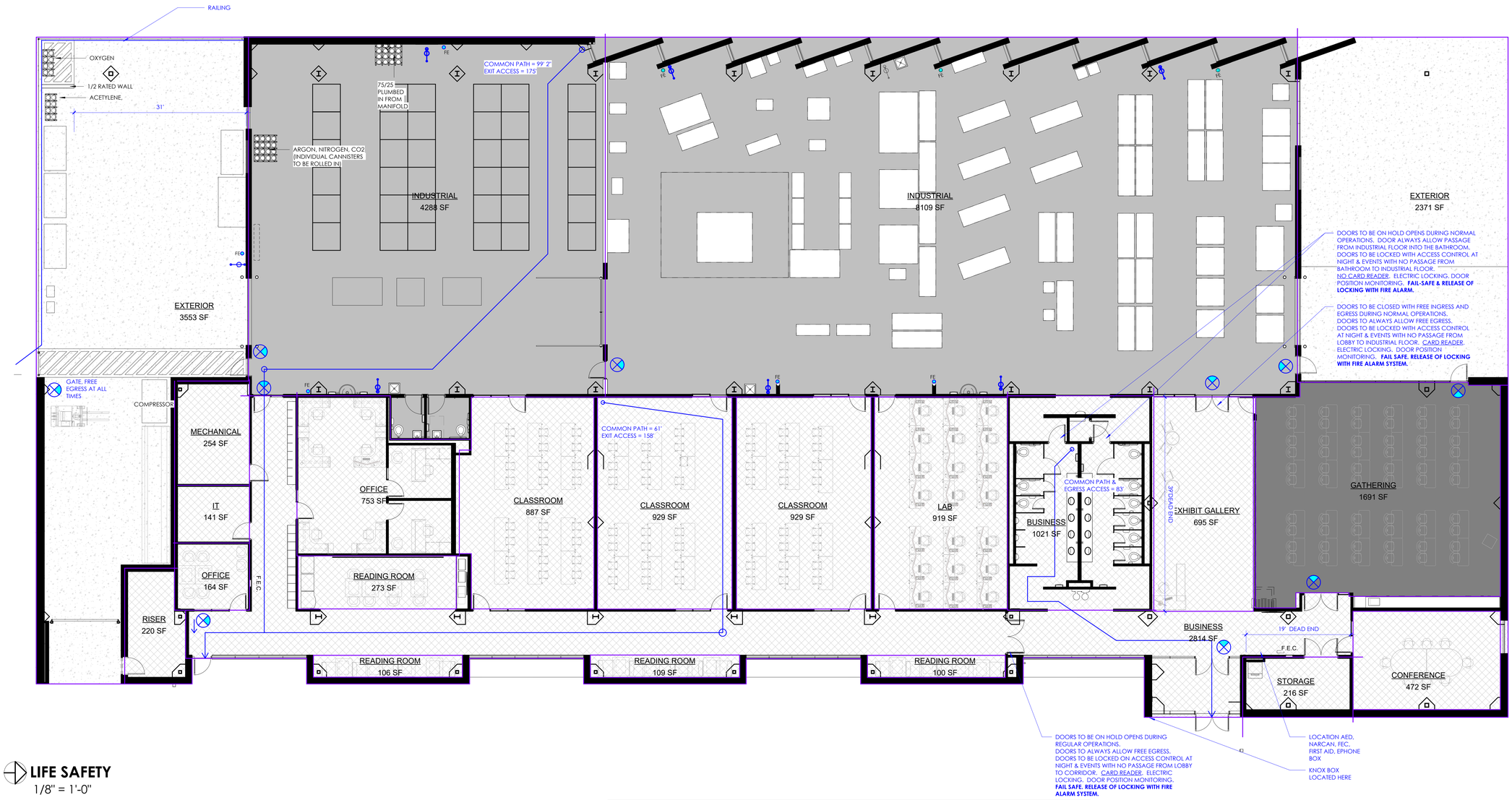

LIFE SAFETY
1/8" = 1'-0"

CODE RESEARCH

Applicable Codes:

Building Code: 2021 Arkansas Fire Prevention Code
Accessibility Standard: 2017 Arkansas Accessibility Code
Energy Code: 2014 Arkansas Energy Code
Plumbing Code: 2018 Arkansas Plumbing Code
Mechanical Code: 2021 International Mechanical Code
Electrical Code: 2020 Arkansas Electrical Code

Building Code Requirements:

Occupancy (304.1 & 306.2): B & F-1 Unseparated, with Assembly Accessory
->All assembly spaces, except the workforce training room, are considered business occupancy per 303.1.2.
Construction Type: VB
Allowable Area (Table 503): See calculations below
Allowable Height (Table 503): 60' > 35'(Actual Height)
Allowable Area: 45,155 SF > 31,013 SF (Actual Area)
Fire-Resistance Rating Requirements for Building Elements (Table 601 & 602):

Primary Structural Frame:	0 hrs
Exterior Bearing Walls:	0 hrs
Interior Bearing Walls:	0 hrs
Nonbearing Exterior Walls:	0 hrs
Nonbearing Interior Walls:	0 hrs
Floor Construction:	0 hrs
Roof Construction:	0 hrs

ALLOWABLE AREA CALCULATION

CHART VALUES
B S1 = 36,000
B NS = 9,000
F-1 S1 = 34,000
F-1 NS = 8,500
If = 1.5

If = 1.5
Because 75% to 100% of the building perimeter is surrounded by 55' (or greater) open space

ALLOWABLE AREA = S1 + (NS X If)

BUSINESS ALLOWABLE AREA = 36,000 + (9,000 X 1.5) = 49,500

F-1 ALLOWABLE AREA = 34,000 + (8,500 X 1.5) = 46,750

50% of 46,750 = 23,375
44% of 49,500 = 21,780
23,375 + 21,780 = 45,155 SF allowable

Shaft Enclosure Fire Rating:
Portable Fire Extinguishers (906): 75'
Occupant Count (Table 1004.1.2): 573
Means of Egress Required Capacity based on Occupant Load (1005.3):
Egress Width: Required: 9' - 6 1/2" Actual: 24'-0"
Size of Doors (1008.1): Minimum of 32 in clear width
Common Path of Egress Travel (Table 1014.3): 100'
Exit Access Travel Distance (Table 1016.2): 250'
Corridor Fire-Resistance Rating (Table 1018.1): 0
Dead End Corridors (1018.4): 50'
Minimum Number of Required Plumbing Fixtures (Table 2902.1):
Water Closets: 7 PER GENDER
Lavatories: 5 PER GENDER
Drinking Fountains: 2
Other: 1 JAN SINK

WATER CLOSETS	LAVATORIES
491/2 = 246 per gender	491/2 = 246 per gender
246 - 50 = 195	246 - 80 = 166
246/50 = 4.92 -> 5	166/80 = 2.075 -> 3
5+ 2(from the first 50) = 7 per gender	3 + 2(from the first 80) = 5 per gender

OCCUPANY COUNT					
OCCUPANCY	AREA USAGE	AREA	OCCUPANT LOAD FACTOR	OCCUPANT COUNT	PERCENTAGE
ASSEMBLY	GATHERING	1691 SF	15	112.76	5%
ASSEMBLY: 1		1691 SF		112.76	5%
BUSINESS	READING ROOM	100 SF	50	1.99	0%
BUSINESS	READING ROOM	106 SF	50	2.12	0%
BUSINESS	READING ROOM	109 SF	50	2.18	0%
BUSINESS	IT	141 SF	300	0.47	0%
BUSINESS	OFFICE	164 SF	150	1.09	1%
BUSINESS	STORAGE	216 SF	300	0.72	1%
BUSINESS	RISER	220 SF	300	0.73	1%
BUSINESS	MECHANICAL	254 SF	300	0.85	1%
BUSINESS	READING ROOM	273 SF	50	5.46	1%
BUSINESS	CONFERENCE	472 SF	30	15.72	2%
BUSINESS	EXHIBIT GALLERY	695 SF	30	23.17	2%
BUSINESS	OFFICE	753 SF	150	5.02	2%
BUSINESS	CLASSROOM	887 SF	20	44.33	3%
BUSINESS	LAB	919 SF	20	45.93	3%
BUSINESS	CLASSROOM	929 SF	20	46.47	3%
BUSINESS	CLASSROOM	929 SF	20	46.43	3%
BUSINESS	BUSINESS	1021 SF	150	6.80	3%
BUSINESS	EXTERIOR	2371 SF	0		8%
BUSINESS	BUSINESS	2814 SF	150	18.76	9%
BUSINESS: 19		13372 SF		268.26	43%
INDUSTRIAL	EXTERIOR	3553 SF	0		11%
INDUSTRIAL	INDUSTRIAL	4288 SF	100	42.88	14%
INDUSTRIAL	INDUSTRIAL	8109 SF	100	81.09	26%
INDUSTRIAL: 3		15950 SF		123.97	51%
Grand total		31013 SF		504.99	100%

LIFE SAFETY PLAN KEY

- B: BUSINESS
- F-1: FACTORY
- A: ASSEMBLY (ACCESSORY)
- EXTERIOR: SEE CHART
- EXIT
- EMERGENCY SHOWER & EYEWASH
- FE — FIRE EXTINGUISHER ON WALL BRACKET
- F.E.C. — FIRE EXTINGUISHER IN WALL CABINET

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

REGISTERED ARCHITECT — FENNELL PURIFOY — NO. 11,512 — ARKANSAS — 5.18.26

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LIFE SAFETY
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GENERAL NOTES:

1. EXISTING SURVEY DATA WAS OBTAINED FROM A TOPOGRAPHIC & BOUNDARY SURVEY PERFORMED BY HORIZON LAND SURVEYING, INC AND DATED JANUARY 14, 2026.
2. SURVEY DATA IS BASED UPON NAD 83, STATE STATE PLANE, ARKANSAS NORTH FEET COORDINATE SYSTEM.
3. ELEVATIONS ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM.
4. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY, COUNTY, STATE, AND FEDERAL REGULATIONS AND CODES AS WELL AS OSHA STANDARDS. SITE CONTRACTOR SHALL MEET OR EXCEED ALL LOCAL, STATE, AND FEDERAL EROSION CONTROL MEASURES
5. THE APPROXIMATE LOCATION OF KNOWN UTILITIES & SUBSURFACE STRUCTURES AS SHOWN HEREON ARE BASED ON ABOVE-GROUND VISIBLE STRUCTURES & RECORD DRAWINGS PROVIDED. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF THESE & ALL OTHER SUBSURFACE AND/OR LATENT FACILITIES PRIOR TO BEGINNING WORK. ALL REPAIRS OR RELOCATIONS NECESSARY SHALL BE MADE AS REQUIRED BY THE OWNER OF THE UTILITY OR STRUCTURE & THE COST OF SUCH REPAIRS NECESSARY SHALL BE BORNE BY THE CONTRACTOR.
6. ALL WORK PERFORMED WITHIN THE RIGHT-OF-WAY SHALL BE COORDINATED WITH THE CITY OF JONESBORO ENGINEERING DEPARTMENT AND TRAFFIC DEPARTMENT.
7. ALL STREETS, DRIVES, WALKS, DRAINAGE STRUCTURES, FENCES, ETC. THAT ARE DISTURBED SHALL BE RESTORED TO THEIR ORIGINAL OR BETTER CONDITION USING LIKE MATERIALS. COST OF SUCH REPAIRS SHALL BE BORNE BY THE CONTRACTOR UNLESS PROVISION FOR PAYMENT IS MADE IN THE PROPOSAL.
8. THE CONTRACTOR IS REQUIRED TO NOTIFY THE ONE CALL CENTER AT 1-800-482-8998 48 HOURS PRIOR TO DIGGING IN ORDER THAT UNDERGROUND UTILITIES IN THE AREA CAN BE LOCATED.
9. THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN IMPLEMENTED, AND THE SWPPP, EROSION CONTROL PLAN, AND SIGNED AUTOMATIC NOTICE OF COVERAGE IS POSTED ON SITE.
10. CONTRACTOR IS RESPONSIBLE FOR ALL FIELD TESTING AS DESCRIBED IN THE SPECIFICATIONS (INCLUDING BUT NOT LIMITED TO COMPACTION DENSITY TESTING, ETC.), AND SHALL PROVIDE RESULTS TO ENGINEER, AND MAINTAIN RECORDS AND RESULTS OF ALL TESTS PERFORMED DURING CONSTRUCTION. TESTING BY THE CONTRACTOR SHALL BE INCLUDED IN THE BID.
11. EXISTING FACILITIES AND FEATURES ARE SHOWN LIGHT-LINED AND/OR SCREENED. NEW FACILITIES AND FEATURES ARE SHOWN SOLID AND HEAVY-LINED.
12. SLOPES AND GRADES SHOWN ARE IN UNITS OF FT/FT UNLESS OTHERWISE NOTED.
13. ALL PAVEMENT AND CURB MEASUREMENTS ARE TAKEN FROM FACE OF CURB OR EDGE OF PAVEMENT.
14. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

DEMOLITION NOTES:

1. DEMOLITION SHALL NOT BEGIN UNTIL THE APPROPRIATE EROSION CONTROL MEASURES AND REQUIRED TREE PRESERVATION FENCING HAVE BEEN INSTALLED.
2. CONTRACTOR SHALL FOLLOW ALL FEDERAL, STATE, AND LOCAL CODES FOR DEMOLITION AND DISPOSAL OF ALL MATERIALS.
3. CONTRACTOR SHALL ENSURE THAT ADJACENT PROPERTY IS NOT DAMAGED.
4. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES REGARDING RELOCATION, REMOVAL, AND/OR DISCONNECTION.
5. CONTRACTOR SHALL PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC.
6. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY UNDERGROUND TANKS ARE FOUND ON SITE.
7. ALL TREES (EXCEPT THOSE SHOWN TO BE PROTECTED) AND VEGETATION WITHIN THE CLEARING AND GRADING LIMITS SHALL BE CLEARED AND GRUBBED INCLUDING TREE ROOT SYSTEMS. ALL DEBRIS IS TO BE REMOVED FROM THE SITE.
8. STRIP TOPSOIL AND STOCKPILE IN A DESIGNATED AREA FOR FUTURE USE. COORDINATE DESIGNATED AREA WITH AE PRIOR TO STRIPPING TOPSOIL.
9. LARGE ROCKS AND BOULDERS SHALL BE REMOVED AND DISPOSED FROM THE SITE.

STREET CONSTRUCTION (GRADING) AND EARTHWORK NOTES:

1. THE ENGINEER SHALL BE NOTIFIED 24 HOURS PRIOR TO PLACEMENT OF ANY FILL MATERIAL, INSTALLATION OF STORM DRAINAGE PIPE, DRAINAGE STRUCTURES, CURB AND GUTTER, OR PLACEMENT OF CRUSHED STONE OR ASPHALT.
2. CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT PERFORM EARTHWORK IN ACCORDANCE WITH THE RECOMMENDATIONS IN SAID REPORT.
3. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER TO INSPECT THE SUBGRADE PRIOR TO PLACING FILL.
4. FILL AND BACKFILL SHALL BE PLACED IN HORIZONTAL, NOMINAL 6- TO 8-IN THICK LOOSE LIFTS. EACH LIFT SHALL BE TESTED AND APPROVED PRIOR TO PLACING SUBSEQUENT LIFTS.
5. THE SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND SECTION 212 OF THE ARKASAS STATE HIGHWAY DEPARTMENTS STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. PRIOR TO PLACING THE CRUSHED STONE BASE COURSE THE SUBGRADE SHALL BE PROOF ROLLED, AND MUST BE VERIFIED TO CONFORM TO THE GRADES AND SLOPES SHOWN ON THE DRAWINGS.
6. ALL MUD SOIL AND LOOSE GRAVEL SHALL BE REMOVED FROM THE CRUSHED STONE BASE AND CONCRETE CURB PRIOR TO PLACEMENT OF ASPHALT.
7. THE CONTRACTOR SHALL PROVIDE APPROPRIATE ADVANCED WARNING DEVICES, BARRICADES, BARRELS, AND OTHER MEASURES AS NEEDED TO PROPERLY CONTROL AND ADVISE TRAFFIC OF CONSTRUCTION EQUIPMENT.
8. THE CONTRACTOR SHALL REPAIR ANY DAMAGE THE CONSTRUCTION ACTIVITY OR HAULING OF MATERIAL MAY HAVE ON THE EXISTING STREETS AND/OR ACCESS ROADS.
9. COORDINATE WORK WITH OWNER TO MINIMIZE THE EFFECTS OF CONSTRUCTION ON DAILY OPERATIONS OF THE FACILITY.
10. COORDINATE ALL DEMOLITION WORK WITH OWNER. VERIFY OWNER DOES NOT WISH TO RETAIN MATERIAL BEFORE IT IS REMOVED AND DISPOSED.
11. ALL CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE DESIGNATED AREAS SHOWN ON THE PLANS. ALL AREAS OUTSIDE OF THOSE LIMITS SHALL BE PROTECTED AND MAINTAINED.
13. GRADING SHALL BE LIMITED TO THE EXTENT OF THE PROPOSED CONTOURS AND SPOT GRADES SHOWN ON THE PLANS.
14. ALL CUT AND/OR FILL SLOPES SHALL BE A MAXIMUM 3H:1V SLOPE OR FLATTER UNLESS OTHERWISE NOTED.
15. ALL STORM DRAINAGE PIPE CONNECTIONS TO STRUCTURES SHALL BE GROUTED TO PROVIDE A WATERTIGHT CONNECTION AT THE STRUCTURE.
16. ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES INSTALLED IN PAVED AND TRAFFIC AREAS SHALL MEET HEAVY DUTY TRAFFIC (H20) LOADING AND INSTALLED IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS FOR H20 LOADING.
17. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH THE PAVEMENT AND SHALL HAVE TRAFFIC BEARING RINGS AND COVERS.
18. THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL OR STRUCTURAL ENGINEERING PLANS AND SPECIFICATIONS.

GENERAL EROSION CONTROL NOTES:

1. SITE CONTRACTOR IS RESPONSIBLE FOR INSTALLING, MONITORING, AND MAINTAINING ALL EROSION & SEDIMENT CONTROL BMPS.
2. SITE CONTRACTOR IS RESPONSIBLE TO KEEP AND UPDATE ALL STORM EVENT LOG BOOKS.
3. THE CONTRACTOR SHALL IMPLEMENT AN EROSION CONTROL PLAN TO PREVENT MUD, SEDIMENT, AND CONSTRUCTION MATERIALS FROM BEING WASHED OR TRACKED OFF SITE ONTO ADJACENT PROPERTY. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE APPROVED ADEQ CONSTRUCTION STORMWATER PERMIT AND MAINTAIN THE STORMWATER POLLUTION PREVENTION PLAN AT ALL TIMES.
4. THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPRISED OF THIS DRAWING (SITE MAP), THE EROSION CONTROL DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN THE TEMPORARY EROSION CONTROL SECTION OF THE SPECIFICATIONS, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
5. EROSION CONTROL DEVICES SHALL BE INSTALLED AS THE PROJECT PROGRESSES AND AREAS ARE DISTURBED.
6. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
7. BEST MANAGEMENT PRACTICES AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, AND OR LOCAL MANUAL OF PRACTICE, AND THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECT BY THE PERMITTING AGENCY OR OWNER.
8. THIS EROSION CONTROL PLAN MAY BE REVISED BY ADDING OR DELETING EROSION CONTROL DEVICES AS DIRECTED BY THE ENGINEER.
9. THE LOCATIONS OF THESE EROSION CONTROL DEVICES MAY BE CHANGED IF SITE CONDITIONS WARRANT TO PREVENT EROSION.
10. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE AND EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
11. ALL INLETS ON AND ADJACENT TO THE SITE SHALL BE PROTECTED FROM SEDIMENT.
12. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN UP FUEL OR CHEMICAL SPILLS AND LEAKS.
13. PERFORM EQUIPMENT AND VEHICLE MAINTENANCE ONLY IN DESIGNATED AREAS. USE DRIP PANS UNDER EQUIPMENT.
14. INSPECT ALL EROSION CONTROL DEVICES AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT 0.25 INCHES OR GREATER THROUGHOUT THE DURATION OF THIS PROJECT AND UNTIL PERMANENT VEGETATION IS ESTABLISHED OR AS OTHERWISE DIRECTED IN THE SWPPP.
15. ALL DISTURBED AREAS LEFT IDLE FOR A PERIOD OF 14 DAYS OR LONGER ARE TO RECEIVE TEMPORARY VEGETATION AND MULCHED.
16. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND/OR OTHER PETROLEUM-BASED, OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATION IS PROHIBITED.
17. SOLID WASTE (INCLUDING TRASH AND DEBRIS) MUST BE DISPOSED OF PROPERLY, AND HAZARDOUS MATERIALS (INCLUDING OIL, GASOLINE, AND PAINT) MUST BE PROPERLY STORED (WHICH INCLUDES SECONDARY CONTAINMENT), PROPERLY MANAGE PORTABLE SANITARY FACILITIES.
18. USE DRY CLEANUP METHODS TO COLLECT LITTER AND ABSORB ANY LIQUID WASTES PRIOR TO ANY PRESSURE WASHING. THESE INCLUDE USING ABSORBENTS (RAGS, SAND, ETC.), SWEEPING, AND SCRAPPING OFF DRIED DEBRIS.
19. RUBBISH, TRASH, GARBAGE, OR LITTER SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM BEING BLOWN OR WASHED OFF-SITE.
20. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCE/EXIT IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES EXIT ONTO THE PUBLIC ROADS. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF SITE..
21. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
22. ON-SITE AND OFF-SITE STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH ADEQ CONSTRUCTION STORMWATER PERMIT.
23. ALL MATERIALS MUST BE STORED OUT OF THE WAY OF VEHICULAR TRAFFIC.
24. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.
25. EROSION CONTROL FACILITIES REQUIRED BY THESE PLANS AND/OR THE FACILITY PERMIT ARE THE MINIMUM REQUIRED. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL FACILITIES AS NECESSARY.
26. REMOVE EROSION CONTROL DEVICES AFTER PERMANENT VEGETATION IS ESTABLISHED.

ADDITIONAL EROSION CONTROL NOTES:

INITIAL SITE PREPARATION:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCES/EXITS. ANY NEW OR RELOCATED CONSTRUCTION ENTRANCES MUST BE PROPOSED BY THE CONTRACTOR AND APPROVED BY THE EOR. NEW LOCATION OF CONSTRUCTION ENTRANCES / EXITS SHALL BE SHOWN ON THE ON-SITE SWPPP. THE LOCATIONS OR RELOCATIONS OF THE CONSTRUCTION ENTRANCES / EXITS ARE THE CONTRACTOR'S RESPONSIBILITY AND SHALL NOT BE SUBJECT TO A CHANGE ORDER.
2. SITE CONTRACTOR SHALL SUBMIT TO ENGINEER FOR APPROVAL A SITE MAP SHOWING THE PROPOSED LOCATIONS OF THE FOLLOWING: TRAILER, PARKING, LAY DOWN, PORTAJ-POTTY, WHEEL WASH, CONCRETE WASH-OUT, MASON'S AREA, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., DENOTE THEM ON THE SITE MAPS IMMEDIATELY AND NOTE ANY CHANGES IN THE LOCATIONS AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROGRESS.
3. CONSTRUCT THE SILT FENCES ON THE SITE AS INDICATED ON THE PLANS.
4. CONSTRUCT THE SEDIMENTATION AND SEDIMENT TRAP BASINS.
5. CONTACT THE ENGINEER TO PERFORM INSPECTION OF THE BMPS. SITE CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH ENGINEER AND ALL GROUND DISTURBING SUB-CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.
6. CLEAR AND GRUB THE SITE WITHIN THE LIMITS OF WORK SHOWN ON THE PLANS.
7. CONTRACTOR SHALL BEGIN GRADING THE SITE AND BEGIN CONSTRUCTION.

DURING CONSTRUCTION:

1. TEMPORARILY SEED DISTURBED AREAS.
2. INSTALL INLET PROTECTION AROUND ALL NEWLY CONSTRUCTED STORM SEWER STRUCTURES.
3. AFTER PAVING, INSTALL INLET PROTECTION DEVICES.
4. AT THE COMPLETION OF GRADING INSTALL PERMANENT SEEDING AND PLANTINGS.
5. ONCE SITE IS STABILIZED, THE CONTRACTOR CAN REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES.
6. ON AN AS-NEEDED BASIS OR AS DIRECTED BY THE CITY OR OWNER, THE CONTRACTOR SHALL CONTROL DUST BY EXPOSING THE SOIL SURFACE TO MOISTURE PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.

UTILITY NOTES:

1. EXISTING STRUCTURES AND UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND FOR INFORMATION PURPOSES ONLY. ALL STRUCTURES AND UTILITIES MAY NOT BE SHOWN. ALL EXISTING UTILITY LOCATIONS MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION (WHETHER SHOWN OR NOT SHOWN). UTILITY SERVICE MUST BE MAINTAINED DURING AND AFTER CONSTRUCTION
2. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
3. ALL WATER LINE AND SANITARY SEWER WORK MUST BE PERFORMED IN ACCORDANCE WITH (LOCAL JURISDICTION) STANDARD SPECIFICATIONS AND DETAILS, AND SHALL BE COORDINATED WITH LOCAL JURISDICTION
4. THE CONTRACTOR SHALL COORDINATE THE CONNECTIONS TO THE EXISTING WATER LINES WITH THE LOCAL JURISDICTION.
5. PROVIDE THRUST BLOCKING FOR THE PROPOSED WATERLINES AS SHOWN ON THE DETAIL SHEETS AND AS REQUIRED BY THE LOCAL JURISDICTION.
6. ALL WATER AND SEWER LINES AND SERVICES CROSSING ROADWAYS ARE TO BE BACKFILLED WITH COMPACTED CLASS 7 AGGREGATE BASE COURSE.
7. ALL WATER MAINS SHALL BE A MINIMUM OF 3-FT BELOW FINISHED GRADE AND A MINIMUM OF 1-FT BELOW STORM DRAINS.
8. PER ARKANSAS RULES PERTAINING TO PUBLIC WATER SYSTEMS SECTION XIV A: THE OPERATING ROUTINE SHALL INCLUDE NECESSARY PROTECTIVE MEASURES TO DETECT AND REMOVE OR DESTROY ANY CONTAMINANT OF CONCERN OR REGULATION THAT MIGHT ENTER THE DISTRIBUTION SYSTEM. EVERY PRECAUTION MUST BE TAKEN AGAINST THE POSSIBILITY OF SEWAGE CONTAMINATION OF THE WATER IN THE DISTRIBUTION SYSTEM. WATER MAINS AND SANITARY SEWERS SHALL BE CONSTRUCTED AS FAR APART AS PRACTICABLE, AND SHALL BE SEPARATED BY UNDISTURBED AND COMPACTED EARTH. A MINIMUM HORIZONTAL DISTANCE OF TEN FEET SHOULD BE MAINTAINED BETWEEN WATER LINES AND SEWER LINES OR OTHER SOURCES OF CONTAMINATION. WATER LINES AND SEWERS SHALL NOT BE LAID IN THE SAME TRENCH EXCEPT ON THE WRITTEN APPROVAL OF THE ARKANSAS DEPARTMENT OF HEALTH. WATER MAINS NECESSARILY IN CLOSE PROXIMITY TO SEWERS MUST BE PLACED SO THAT THE BOTTOM OF THE WATER LINE WILL BE AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER LINE AT ITS HIGHEST POINT. IF THIS DISTANCE MUST UNAVOIDABLY BE REDUCED, THE WATER LINE OR THE SEWER LINE MUST BE ENCASED IN WATERTIGHT PIPE WITH SEALED WATERTIGHT ENDS EXTENDING AT LEAST TEN FEET EITHER SIDE OF THE CROSSING. ANY JOINT IN THE ENCASEMENT PIPE IS TO BE MECHANICALLY RESTRAINED. THE ENCASEMENT PIPE MAY BE VENTED TO THE SURFACE IF CARRYING WATER OR SEWER UNDER PRESSURE. WHERE A WATER LINE MUST UNAVOIDABLY PASS BENEATH THE SEWER LINE, AT LEAST 18 INCHES OF SEPARATION MUST BE MAINTAINED BETWEEN THE OUTSIDE OF THE TWO PIPES IN ADDITION TO THE PRECEDING ENCASEMENT REQUIREMENT. EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE ARKANSAS DEPARTMENT OF HEALTH. A MINIMUM HORIZONTAL DISTANCE OF THREE FEET SHALL BE MAINTAINED BETWEEN WATER LINES AND OTHER UNDERGROUND UTILITIES OF A NONSANITARY NATURE (GAS, ELECTRIC, ETC.). EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE ARKANSAS DEPARTMENT OF HEALTH AND HUMAN SERVICES.
9. ALL SANITARY SEWER WORK SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE LOCAL JURISDICTIONS STANDARD SPECIFICATIONS AND DETAILS AND SHALL BE COORDINATED WITH THE LOCAL JURISDICTION.
10. JONESBORO CITY WATER AND LIGHT (CWL) IS NOT RESPONSIBLE FOR ANY WATER OR SEWER TRENCH SETTLEMENT BEFORE OR AFTER ANY WARRANTY PERIOD.
11. IF UNSAFE PRACTICES ARE DISCOVERED BY CWL DURING THEIR INSPECTIONS OF WORKMANSHIP AND MATERIALS, CWL WILL NOTIFY THE OSHA. THIS IN NO WAY OBLIGATES CWL FOR THE RESPONSIBILITY OF THE CONTRACTORS SAFETY PRACTICES.
12. CONSTRUCTION INSPECTION FOR THIS PROJECT IS THE RESPONSIBILITY OF THE ENGINEER OF RECORD OR THEIR APPROVED INSPECTION CONTRACTOR.
13. GRADING AND DIRT WORK OF SITE SHOULD BE WITHIN 6" OF FINAL GRADE BEFORE UTILITY WORK BEGINS.
14. PROPOSED UTILITY STAKING TO BE DONE BY A LICENSED SURVEYOR.
15. ALL PROPOSED SANITARY SEWER MAIN WORK SHALL BE INSTALLED BY A JONESBORO CITY WATER AND LIGHT APPROVED CONTRACTOR.
16. ANY PROPOSED WATER OR SEWER MAIN SHALL BE TESTED & APPROVED IN ACCORDANCE WITH JONESBORO CITY WATER AND LIGHT (CWL) STANDARDS & SPECIFICATIONS PRIOR TO BEING PUT INTO SERVICE. THE ENGINEER OF RECORD, OR THEIR REPRESENTATIVE, AS WELL AS A CWL REPRESENTATIVE SHALL BE PRESENT FOR THE TESTING PROCEDURES AND RECORD TESTING RESULTS FOR APPROVAL.

ABBREVIATIONS

BC	BOTTOM OF CURB
BW	BOTTOM OF WALL
CL	CENTERLINE
CLR	CLEARANCE
CMP	CORRUGATED METAL PIPE
DIA	DIAMETER
DWG	CAD DRAWING
E	EASTING
ELEV	ELEVATION
EX	EXISTING
EG	EXISTING GRADE
FES	FLARED END SECTION
FFE	FINISH FLOOR ELEVATION
FG	FINISH GRADE
FL	FLOWLINE
FT	FEET
GA	GAUGE
GMP	GAS MONITORING PROBE
HDPE	HIGH DENSITY POLYETHYLENE
HORZ	HORIZONTAL
ID	INSIDE DIAMETER
INV	INVERT
LB	POUNDS
LEN	LENGTH
LF	LINEAR FEET
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
N	NORTHING
N.T.S.	NOT TO SCALE
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER
PL	PROPERTY LINE
PVC	POLYVINYL CHLORIDE
PVT	PAVEMENT
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT-OF-WAY
SCH	SCHEDULE
SS	STAINLESS STEEL
SQ	SQUARE
STA	STATION
STD	STANDARD
TC	TOP OF CURB
TW	TOP OF WALL
TYP	TYPICAL
VERT	VERTICAL

PROPOSED UTILITY LEGEND

- W — WATER LINE
- WATER METER
- WATER VALVE
- FDC
- FIRE HYDRANT
- SS — SANITARY SEWER LINE
- SANITARY SEWER CLEANOUT
- UGE — UNDERGROUND ELECTRIC LINES/CONDUIT
- TRANSFORMER AND CONCRETE PAD
- ELECTRICAL MAIN DISCONNECT PANEL
- FO — FIBER LINE
- GAS — GAS LINE
- GAS METER

PROPOSED EROSION CONTROL LEGEND

- CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT
- WIRE REINFORCED SILT FENCE
- GRATE INLET PROTECTION
- TEMPORARY ROCK CHECK DAM
- LIMITS OF DISTURBANCE

EXISTING LEGEND

- FOUND MONUMENT (AS NOTED)
- SET MONUMENT (AS NOTED)
- COMPUTED POINT
- SECTION CORNER
- WATER METER (WM)
- FIRE HYDRANT (FH)
- WATER VALVE
- UTILITY POLE
- TELEPHONE PEDESTAL (TP)
- SANITARY SEWER MANHOLE (SSMH)
- STORM DRAIN MANHOLE (SDMH)
- GRATE DRAIN INLET (GI)
- ELECTRIC TRANSFORMER
- ELECTRIC PULLBOX
- ELECTRIC METER
- LIGHT POLE
- CLEANOUT (CO)
- SIGN
- GAS METER (GM)
- HVAC UNIT
- DOWNSPOUT
- FIBER OPTIC PULLBOX
- UGE — UNDERGROUND ELECTRIC (UGE)
- OHE — OVERHEAD ELECTRIC (OHE)
- WOOD FENCE
- CHAIN LINK FENCE
- SS — SEWER
- W — WATER
- GAS — GAS
- T — TELEPHONE

PROPOSED SITE PLAN LEGEND

- CURB AND GUTTER
- RIBBON CURB
- CONCRETE PAVEMENT - STANDARD DUTY
- CONCRETE PAVEMENT - HEAVY DUTY
- ASPHALT PAVEMENT - HEAVY DUTY
- GRAVEL PAVEMENT
- PERMEABLE GRAVEL
- TYPICAL CONCRETE SIDEWALK
- DRAINAGE ROCK
- CRUSHED STONE
- DETECTABLE WARNING DEVICE
- ADA PATHWAY

PROPOSED GRADING & DRAINAGE LEGEND

- PRECAST CONCRETE HEADWALL
- NYLOPLAST CATCH BASIN
- HDPE STORM PIPE
- PERFORATED HDPE STORM PIPE
- 131 — PROPOSED 1 FT. CONTOUR ELEVATION
- 1315 — PROPOSED 5 FT. CONTOUR ELEVATION
- XXXX.XX — SPOT ELEVATIONS

ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER

JONESBORO, ARKANSAS

REVISIONS:

100% CONSTRUCTION DOCUMENTS
05-18-2026

GENERAL NOTES & LEGENDS

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CERTIFICATE OF AUTHORIZATION — Ecological Design Group, Inc. — No. 2511 — ARKANSAS

FENNELL PURIFOY ARCHITECTS + DAKE | WELLS architecture

STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No. 19108 — ROBERT HAZEN HEWETT — 5.18.26

1/8/2026 9:54:07 AM

GENERAL NOTES:

1. EXISTING SURVEY DATA WAS OBTAINED FROM A TOPOGRAPHIC & BOUNDARY SURVEY PERFORMED BY HORIZON LAND SURVEYING, LLC AND DATED 01/14/2026.
2. SURVEY DATA IS BASED UPON NAD 83, STATE STATE PLANE, ARKANSAS NORTH FEET COORDINATE SYSTEM.
3. ELEVATIONS ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM.
4. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY, COUNTY, STATE, AND FEDERAL REGULATIONS AND CODES AS WELL AS OSHA STANDARDS. SITE CONTRACTOR SHALL MEET OR EXCEED ALL LOCAL, STATE, AND FEDERAL EROSION CONTROL MEASURES
5. THE APPROXIMATE LOCATION OF KNOWN UTILITIES & SUBSURFACE STRUCTURES AS SHOWN HEREON ARE BASED ON ABOVE-GROUND VISIBLE STRUCTURES & RECORD DRAWINGS PROVIDED. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF THESE & ALL OTHER SUBSURFACE AND/OR LATENT FACILITIES PRIOR TO BEGINNING WORK. ALL REPAIRS OR RELOCATIONS NECESSARY SHALL BE MADE AS REQUIRED BY THE OWNER OF THE UTILITY OR STRUCTURE & THE COST OF SUCH REPAIRS NECESSARY SHALL BE BORNE BY THE CONTRACTOR.
6. ALL WORK PERFORMED WITHIN THE RIGHT-OF-WAY SHALL BE COORDINATED WITH THE CITY OF JONESBORO ENGINEERING DEPARTMENT AND TRAFFIC DEPARTMENT.
7. ALL STREETS, DRIVES, WALKS, DRAINAGE STRUCTURES, FENCES, ETC. THAT ARE DISTURBED SHALL BE RESTORED TO THEIR ORIGINAL OR BETTER CONDITION USING LIKE MATERIALS. COST OF SUCH REPAIRS SHALL BE BORNE BY THE CONTRACTOR UNLESS PROVISION FOR PAYMENT IS MADE IN THE PROPOSAL.
8. THE CONTRACTOR IS REQUIRED TO NOTIFY THE ONE CALL CENTER AT 1-800-482-8998 48 HOURS PRIOR TO DIGGING IN ORDER THAT UNDERGROUND UTILITIES IN THE AREA CAN BE LOCATED.
9. THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN IMPLEMENTED, AND THE SWPPP, EROSION CONTROL PLAN, AND SIGNED AUTOMATIC NOTICE OF COVERAGE IS POSTED ON SITE..
10. CONTRACTOR IS RESPONSIBLE FOR ALL FIELD TESTING AS DESCRIBED IN THE SPECIFICATIONS (INCLUDING BUT NOT LIMITED TO COMPACTION DENSITY TESTING, ETC.), AND SHALL PROVIDE RESULTS TO ENGINEER, AND MAINTAIN RECORDS AND RESULTS OF ALL TESTS PERFORMED DURING CONSTRUCTION. TESTING BY THE CONTRACTOR SHALL BE INCLUDED IN THE BID.
11. EXISTING FACILITIES AND FEATURES ARE SHOWN LIGHT-LINED AND/OR SCREENED. NEW FACILITIES AND FEATURES ARE SHOWN SOLID AND HEAVY-LINED.
12. SLOPES AND GRADES SHOWN ARE IN UNITS OF FT/FT UNLESS OTHERWISE NOTED.
13. ALL PAVEMENT AND CURB MEASUREMENTS ARE TAKEN FROM FACE OF CURB OR EDGE OF PAVEMENT.
14. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

DEMOLITION NOTES:

1. DEMOLITION SHALL NOT BEGIN UNTIL THE APPROPRIATE EROSION CONTROL MEASURES AND REQUIRED TREE PRESERVATION FENCING HAVE BEEN INSTALLED.
2. CONTRACTOR SHALL FOLLOW ALL FEDERAL, STATE, AND LOCAL CODES FOR DEMOLITION AND DISPOSAL OF ALL MATERIALS.
3. CONTRACTOR SHALL ENSURE THAT ADJACENT PROPERTY IS NOT DAMAGED.
4. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES REGARDING RELOCATION, REMOVAL, AND/OR DISCONNECTION.
5. CONTRACTOR SHALL PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC.
6. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY UNDERGROUND TANKS ARE FOUND ON SITE.
7. ALL TREES (EXCEPT THOSE SHOWN TO BE PROTECTED) AND VEGETATION WITHIN THE CLEARING AND GRADING LIMITS SHALL BE CLEARED AND GRUBBED INCLUDING TREE ROOT SYSTEMS. ALL DEBRIS IS TO BE REMOVED FROM THE SITE.
8. STRIP TOPSOIL AND STOCKPILE IN A DESIGNATED AREA FOR FUTURE USE. COORDINATE DESIGNATED AREA WITH AE PRIOR TO STRIPPING TOPSOIL.
9. LARGE ROCKS AND BOULDERS SHALL BE REMOVED AND DISPOSED FROM THE SITE.

STREET CONSTRUCTION (GRADING) AND EARTHWORK NOTES:

1. THE ENGINEER SHALL BE NOTIFIED 24 HOURS PRIOR TO PLACEMENT OF ANY FILL MATERIAL, INSTALLATION OF STORM DRAINAGE PIPE, DRAINAGE STRUCTURES, CURB AND GUTTER, OR PLACEMENT OF CRUSHED STONE OR ASPHALT.
2. CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT PERFORM EARTHWORK IN ACCORDANCE WITH THE RECOMMENDATIONS IN SAID REPORT.
3. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER TO INSPECT THE SUBGRADE PRIOR TO PLACING FILL.
4. FILL AND BACKFILL SHALL BE PLACED IN HORIZONTAL, NOMINAL 6- TO 8-IN THICK LOOSE LIFTS. EACH LIFT SHALL BE TESTED AND APPROVED PRIOR TO PLACING SUBSEQUENT LIFTS.
5. THE SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND SECTION 212 OF THE ARKASAS STATE HIGHWAY DEPARTMENTS STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. PRIOR TO PLACING THE CRUSHED STONE BASE COURSE THE SUBGRADE SHALL BE PROOF ROLLED, AND MUST BE VERIFIED TO CONFORM TO THE GRADES AND SLOPES SHOWN ON THE DRAWINGS.
6. ALL MUD SOIL AND LOOSE GRAVEL SHALL BE REMOVED FROM THE CRUSHED STONE BASE AND CONCRETE CURB PRIOR TO PLACEMENT OF ASPHALT.
7. THE CONTRACTOR SHALL PROVIDE APPROPRIATE ADVANCED WARNING DEVICES, BARRICADES, BARRELS, AND OTHER MEASURES AS NEEDED TO PROPERLY CONTROL AND ADVISE TRAFFIC OF CONSTRUCTION EQUIPMENT.
8. THE CONTRACTOR SHALL REPAIR ANY DAMAGE THE CONSTRUCTION ACTIVITY OR HAULING OF MATERIAL MAY HAVE ON THE EXISTING STREETS AND/OR ACCESS ROADS.
9. COORDINATE WORK WITH OWNER TO MINIMIZE THE EFFECTS OF CONSTRUCTION ON DAILY OPERATIONS OF THE FACILITY.
10. COORDINATE ALL DEMOLITION WORK WITH OWNER. VERIFY OWNER DOES NOT WISH TO RETAIN MATERIAL BEFORE IT IS REMOVED AND DISPOSED.
11. ALL CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE DESIGNATED AREAS SHOWN ON THE PLANS. ALL AREAS OUTSIDE OF THOSE LIMITS SHALL BE PROTECTED AND MAINTAINED.
13. GRADING SHALL BE LIMITED TO THE EXTENT OF THE PROPOSED CONTOURS AND SPOT GRADES SHOWN ON THE PLANS.
14. ALL CUT AND/OR FILL SLOPES SHALL BE A MAXIMUM 3H:1V SLOPE OR FLATTER UNLESS OTHERWISE NOTED.
15. ALL STORM DRAINAGE PIPE CONNECTIONS TO STRUCTURES SHALL BE GROUTED TO PROVIDE A WATERTIGHT CONNECTION AT THE STRUCTURE.
16. ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES INSTALLED IN PAVED AND TRAFFIC AREAS SHALL MEET HEAVY DUTY TRAFFIC (H20) LOADING AND INSTALLED IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS FOR H20 LOADING.
17. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH THE PAVEMENT AND SHALL HAVE TRAFFIC BEARING RINGS AND COVERS.
18. THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL OR STRUCTURAL ENGINEERING PLANS AND SPECIFICATIONS.

GENERAL EROSION CONTROL NOTES:

1. SITE CONTRACTOR IS RESPONSIBLE FOR INSTALLING, MONITORING, AND MAINTAINING ALL EROSION & SEDIMENT CONTROL BMPS.
2. SITE CONTRACTOR IS RESPONSIBLE TO KEEP AND UPDATE ALL STORM EVENT LOG BOOKS.
3. THE CONTRACTOR SHALL IMPLEMENT AN EROSION CONTROL PLAN TO PREVENT MUD, SEDIMENT, AND CONSTRUCTION MATERIALS FROM BEING WASHED OR TRACKED OFF SITE ONTO ADJACENT PROPERTY. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE APPROVED ADEQ CONSTRUCTION STORMWATER PERMIT AND MAINTAIN THE STORMWATER POLLUTION PREVENTION PLAN AT ALL TIMES.
4. THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPRISED OF THIS DRAWING (SITE MAP), THE EROSION CONTROL DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN THE TEMPORARY EROSION CONTROL SECTION OF THE SPECIFICATIONS, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
5. EROSION CONTROL DEVICES SHALL BE INSTALLED AS THE PROJECT PROGRESSES AND AREAS ARE DISTURBED.
6. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
7. BEST MANAGEMENT PRACTICES AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, AND OR LOCAL MANUAL OF PRACTICE, AND THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECT BY THE PERMITTING AGENCY OR OWNER.
8. THIS EROSION CONTROL PLAN MAY BE REVISED BY ADDING OR DELETING EROSION CONTROL DEVICES AS DIRECTED BY THE ENGINEER.
9. THE LOCATIONS OF THESE EROSION CONTROL DEVICES MAY BE CHANGED IF SITE CONDITIONS WARRANT TO PREVENT EROSION.
10. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE AND EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
11. ALL INLETS ON AND ADJACENT TO THE SITE SHALL BE PROTECTED FROM SEDIMENT.
12. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN UP FUEL OR CHEMICAL SPILLS AND LEAKS.
13. PERFORM EQUIPMENT AND VEHICLE MAINTENANCE ONLY IN DESIGNATED AREAS. USE DRIP PANS UNDER EQUIPMENT.
14. INSPECT ALL EROSION CONTROL DEVICES AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT 0.25 INCHES OR GREATER THROUGHOUT THE DURATION OF THIS PROJECT AND UNTIL PERMANENT VEGETATION IS ESTABLISHED OR AS OTHERWISE DIRECTED IN THE SWPPP.
15. ALL DISTURBED AREAS LEFT IDLE FOR A PERIOD OF 14 DAYS OR LONGER ARE TO RECEIVE TEMPORARY VEGETATION AND MULCHED.
16. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND/OR OTHER PETROLEUM-BASED, OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATION IS PROHIBITED.
17. SOLID WASTE (INCLUDING TRASH AND DEBRIS) MUST BE DISPOSED OF PROPERLY, AND HAZARDOUS MATERIALS (INCLUDING OIL, GASOLINE, AND PAINT) MUST BE PROPERLY STORED (WHICH INCLUDES SECONDARY CONTAINMENT), PROPERLY MANAGE PORTABLE SANITARY FACILITIES.
18. USE DRY CLEANUP METHODS TO COLLECT LITTER AND ABSORB ANY LIQUID WASTES PRIOR TO ANY PRESSURE WASHING. THESE INCLUDE USING ABSORBENTS (RAGS, SAND, ETC.), SWEEPING, AND SCRAPPING OFF DRIED DEBRIS.
19. RUBBISH, TRASH, GARBAGE, OR LITTER SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM BEING BLOWN OR WASHED OFF-SITE.
20. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCE/EXIT IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES EXIT ONTO THE PUBLIC ROADS. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF SITE..
21. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
22. ON-SITE AND OFF-SITE STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH ADEQ CONSTRUCTION STORMWATER PERMIT.
23. ALL MATERIALS MUST BE STORED OUT OF THE WAY OF VEHICULAR TRAFFIC.
24. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.
25. EROSION CONTROL FACILITIES REQUIRED BY THESE PLANS AND/OR THE FACILITY PERMIT ARE THE MINIMUM REQUIRED. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL FACILITIES AS NECESSARY.
26. REMOVE EROSION CONTROL DEVICES AFTER PERMANENT VEGETATION IS ESTABLISHED.

ADDITIONAL EROSION CONTROL NOTES:

INITIAL SITE PREPARATION:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCES/EXITS. ANY NEW OR RELOCATED CONSTRUCTION ENTRANCES MUST BE PROPOSED BY THE CONTRACTOR AND APPROVED BY THE EOR. NEW LOCATION OF CONSTRUCTION ENTRANCES / EXITS SHALL BE SHOWN ON THE ON-SITE SWPPP. THE LOCATIONS OR RELOCATIONS OF THE CONSTRUCTION ENTRANCES / EXITS ARE THE CONTRACTOR'S RESPONSIBILITY AND SHALL NOT BE SUBJECT TO A CHANGE ORDER.
2. SITE CONTRACTOR SHALL SUBMIT TO ENGINEER FOR APPROVAL A SITE MAP SHOWING THE PROPOSED LOCATIONS OF THE FOLLOWING: TRAILER, PARKING, LAY DOWN, PORTAJ-POTTY, WHEEL WASH, CONCRETE WASH-OUT, MASON'S AREA, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., DENOTE THEM ON THE SITE MAPS IMMEDIATELY AND NOTE ANY CHANGES IN THE LOCATIONS AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROGRESS.
3. CONSTRUCT THE SILT FENCES ON THE SITE AS INDICATED ON THE PLANS.
4. CONSTRUCT THE SEDIMENTATION AND SEDIMENT TRAP BASINS.
5. CONTACT THE ENGINEER TO PERFORM INSPECTION OF THE BMPS. SITE CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH ENGINEER AND ALL GROUND DISTURBING SUB-CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.
6. CLEAR AND GRUB THE SITE WITHIN THE LIMITS OF WORK SHOWN ON THE PLANS.
7. CONTRACTOR SHALL BEGIN GRADING THE SITE AND BEGIN CONSTRUCTION.

DURING CONSTRUCTION:

1. TEMPORARILY SEED DISTURBED AREAS.
2. INSTALL INLET PROTECTION AROUND ALL NEWLY CONSTRUCTED STORM SEWER STRUCTURES.
3. AFTER PAVING, INSTALL INLET PROTECTION DEVICES.
4. AT THE COMPLETION OF GRADING INSTALL PERMANENT SEEDING AND PLANTINGS.
5. ONCE SITE IS STABILIZED, THE CONTRACTOR CAN REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES.
6. ON AN AS-NEEDED BASIS OR AS DIRECTED BY THE CITY OR OWNER, THE CONTRACTOR SHALL CONTROL DUST BY EXPOSING THE SOIL SURFACE TO MOISTURE PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.

UTILITY NOTES:

1. EXISTING STRUCTURES AND UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND FOR INFORMATION PURPOSES ONLY. ALL STRUCTURES AND UTILITIES MAY NOT BE SHOWN. ALL EXISTING UTILITY LOCATIONS MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION (WHETHER SHOWN OR NOT SHOWN). UTILITY SERVICE MUST BE MAINTAINED DURING AND AFTER CONSTRUCTION
2. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
3. ALL WATER LINE AND SANITARY SEWER WORK MUST BE PERFORMED IN ACCORDANCE WITH (LOCAL JURISDICTION) STANDARD SPECIFICATIONS AND DETAILS, AND SHALL BE COORDINATED WITH LOCAL JURISDICTION
4. THE CONTRACTOR SHALL COORDINATE THE CONNECTIONS TO THE EXISTING WATER LINES WITH THE LOCAL JURISDICTION.
5. PROVIDE THRUST BLOCKING FOR THE PROPOSED WATERLINES AS SHOWN ON THE DETAIL SHEETS AND AS REQUIRED BY THE LOCAL JURISDICTION.
6. ALL WATER AND SEWER LINES AND SERVICES CROSSING ROADWAYS ARE TO BE BACKFILLED WITH COMPACTED CLASS 7 AGGREGATE BASE COURSE.
7. ALL WATER MAINS SHALL BE A MINIMUM OF 3-FT BELOW FINISHED GRADE AND A MINIMUM OF 1-FT BELOW STORM DRAINS.
8. PER ARKANSAS RULES PERTAINING TO PUBLIC WATER SYSTEMS SECTION XIV A- THE OPERATING ROUTINE SHALL INCLUDE NECESSARY PROTECTIVE MEASURES TO DETECT AND REMOVE OR DESTROY ANY CONTAMINANT OF CONCERN OR REGULATION THAT MIGHT ENTER THE DISTRIBUTION SYSTEM. EVERY PRECAUTION MUST BE TAKEN AGAINST THE POSSIBILITY OF SEWAGE CONTAMINATION OF THE WATER IN THE DISTRIBUTION SYSTEM. WATER MAINS AND SANITARY SEWERS SHALL BE CONSTRUCTED AS FAR APART AS PRACTICABLE, AND SHALL BE SEPARATED BY UNDISTURBED AND COMPACTED EARTH. A MINIMUM HORIZONTAL DISTANCE OF TEN FEET SHOULD BE MAINTAINED BETWEEN WATER LINES AND SEWER LINES OR OTHER SOURCES OF CONTAMINATION. WATER LINES AND SEWERS SHALL NOT BE LAID IN THE SAME TRENCH EXCEPT ON THE WRITTEN APPROVAL OF THE ARKANSAS DEPARTMENT OF HEALTH. WATER MAINS NECESSARILY IN CLOSE PROXIMITY TO SEWERS MUST BE PLACED SO THAT THE BOTTOM OF THE WATER LINE WILL BE AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER LINE AT ITS HIGHEST POINT. IF THIS DISTANCE MUST UNAVOIDABLY BE REDUCED, THE WATER LINE OR THE SEWER LINE MUST BE ENCASED IN WATERTIGHT PIPE WITH SEALED WATERTIGHT ENDS EXTENDING AT LEAST TEN FEET EITHER SIDE OF THE CROSSING. ANY JOINT IN THE ENCASEMENT PIPE IS TO BE MECHANICALLY RESTRAINED. THE ENCASEMENT PIPE MAY BE VENTED TO THE SURFACE IF CARRYING WATER OR SEWER UNDER PRESSURE. WHERE A WATER LINE MUST UNAVOIDABLY PASS BENEATH THE SEWER LINE, AT LEAST 18 INCHES OF SEPARATION MUST BE MAINTAINED BETWEEN THE OUTSIDE OF THE TWO PIPES IN ADDITION TO THE PRECEDING ENCASEMENT REQUIREMENT. EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE ARKANSAS DEPARTMENT OF HEALTH. A MINIMUM HORIZONTAL DISTANCE OF THREE FEET SHALL BE MAINTAINED BETWEEN WATER LINES AND OTHER UNDERGROUND UTILITIES OF A NONSANITARY NATURE (GAS, ELECTRIC, ETC.). EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE ARKANSAS DEPARTMENT OF HEALTH AND HUMAN SERVICES.
9. ALL SANITARY SEWER WORK SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE LOCAL JURISDICTIONS STANDARD SPECIFICATIONS AND DETAILS AND SHALL BE COORDINATED WITH THE LOCAL JURISDICTION.
10. JONESBORO CITY WATER AND LIGHT (CWL) IS NOT RESPONSIBLE FOR ANY WATER OR SEWER TRENCH SETTLEMENT BEFORE OR AFTER ANY WARRANTY PERIOD.
11. IF UNSAFE PRACTICES ARE DISCOVERED BY CWL DURING THEIR INSPECTIONS OF WORKMANSHIP AND MATERIALS, CWL WILL NOTIFY THE OSHA. THIS IN NO WAY OBLIGATES CWL FOR THE RESPONSIBILITY OF THE CONTRACTORS SAFETY PRACTICES.
12. CONSTRUCTION INSPECTION FOR THIS PROJECT IS THE RESPONSIBILITY OF THE ENGINEER OF RECORD OR THEIR APPROVED INSPECTION CONTRACTOR.
13. GRADING AND DIRT WORK OF SITE SHOULD BE WITHIN 6" OF FINAL GRADE BEFORE UTILITY WORK BEGINS.
14. PROPOSED UTILITY STAKING TO BE DONE BY A LICENSED SURVEYOR.
15. ALL PROPOSED SANITARY SEWER MAIN WORK SHALL BE INSTALLED BY A JONESBORO CITY WATER AND LIGHT APPROVED CONTRACTOR.
16. ANY PROPOSED WATER OR SEWER MAIN SHALL BE TESTED & APPROVED IN ACCORDANCE WITH JONESBORO CITY WATER AND LIGHT (CWL) STANDARDS & SPECIFICATIONS PRIOR TO BEING PUT INTO SERVICE. THE ENGINEER OF RECORD, OR THEIR REPRESENTATIVE, AS WELL AS A CWL REPRESENTATIVE SHALL BE PRESENT FOR THE TESTING PROCEDURES AND RECORD TESTING RESULTS FOR APPROVAL.

ABBREVIATIONS

BC	BOTTOM OF CURB
BW	BOTTOM OF WALL
CL	CENTERLINE
CLR	CLEARANCE
CMP	CORRUGATED METAL PIPE
DIA	DIAMETER
DWG	CAD DRAWING
E	EASTING
ELEV	ELEVATION
EX	EXISTING
EG	EXISTING GRADE
FES	FLARED END SECTION
FFE	FINISH FLOOR ELEVATION
FG	FINISH GRADE
FL	FLOWLINE
FT	FEET
GA	GAUGE
GMP	GAS MONITORING PROBE
HDPE	HIGH DENSITY POLYETHYLENE
HORZ	HORIZONTAL
ID	INSIDE DIAMETER
INV	INVERT
LB	POUNDS
LEN	LENGTH
LF	LINEAR FEET
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
N	NORTHING
N.T.S.	NOT TO SCALE
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER
PL	PROPERTY LINE
PVC	POLYVINYL CHLORIDE
PVT	PAVEMENT
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT-OF-WAY
SCH	SCHEDULE
SS	STAINLESS STEEL
SQ	SQUARE
STA	STATION
STD	STANDARD
TC	TOP OF CURB
TW	TOP OF WALL
TYP	TYPICAL
VERT	VERTICAL

PROPOSED DEMOLITION LEGEND

- TREE TO BE REMOVED
- PAVEMENT & STRUCTURE REMOVAL AREA
- x — TREE PRESERVATION FENCING

PROPOSED UTILITY LEGEND

- SS — SANITARY SEWER LINE
- SANITARY SEWER MANHOLE

PROPOSED EROSION CONTROL LEGEND

- CONSTRUCTION ENTRANCE
- WIRE REINFORCED SILT FENCE
- TEMPORARY ROCK CHECK DAM
- LIMITS OF DISTURBANCE
- FLOW ARROW

PROPOSED GRADING & DRAINAGE LEGEND

- 1313 — PROPOSED 1 FT. CONTOUR ELEVATION
- 1315 — PROPOSED 5 FT. CONTOUR ELEVATION

EXISTING LEGEND

- TREE
- SANITARY SEWER MANHOLE
- 1311 — 1 FT. CONTOUR ELEVATION
- 1315 — 5 FT. CONTOUR ELEVATION
- WATER VALVE
- OHE — OVERHEAD ELECTRIC LINE
- UGE — UNDERGROUND ELECTRIC LINE
- SS — SANITARY SEWER LINE
- W — WATER LINE
- GAS — GAS LINE
- FO — FIBER OPTIC LINE

ASU CREST EARLY SITE PACKAGE

JONESBORO, ARKANSAS

811 ARKANSAS 811

REVISIONS:
ASI 001 03-06-2026
ASI 002 03-30-2026

EARLY SITE PACKAGE
03-02-2026

GENERAL NOTES & LEGENDS
C0.01

1 GENERAL NOTES & LEGENDS

CERTIFICATE OF AUTHORIZATION Ecological Design Group, Inc. No. 2511 ARKANSAS

FENNELL PURIFOY ARCHITECTS + DAKE | WELLS architecture

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 19108 ROBERT HAZEN HELVEY 03.02.26

1/8/2026 9:34:01 AM

EXISTING WATER MAIN TO REMAIN (PROTECT & MAINTAIN)

EXISTING FENCING ALONG AGGIE ROAD
TO BE REMOVED & DISPOSED
(COORDINATE WITH OWNER)

EXISTING FENCING ALONG LONGHORN DRIVE
TO BE REMOVED & DISPOSED
(COORDINATE WITH OWNER)

AGGIE RD

LONGHORN DR

C0.12

C0.12

TREE PRESERVATION FENCING
SHALL EXTEND TO SOUTH EDGE OF FENCE

TREE PRESERVATION FENCING
SHALL EXTEND TO SOUTH EDGE OF FENCE

1 OVERALL DEMOLITION PLAN

SCALE: 1" = 40'-0"

NORTH

0' 40' 80' 160'

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

CERTIFICATE OF AUTHORIZATION
Ecological Design Group, Inc.
No. 2511
ARKANSAS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19108
ROBERT HAZEN HEWLETT
03.02.26

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JONESBORO, ARKANSAS

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OVERALL DEMOLITION PLAN
C0.10

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EXISTING WATER MAIN

PROPERTY/ROW LINE

EXISTING FENCE TO BE REMOVED & DISPOSED. COORDINATE W/ OWNER.

EXISTING OVERHEAD ELECTRIC LINE TO REMAIN (PROTECT & MAINTAIN)

EXISTING OVERHEAD ELECTRIC POLE TO REMAIN (PROTECT & MAINTAIN) (TYP.)

FEMA SPECIAL FLOOD HAZARD AREA SHADED 500 YR ZONE X

EXISTING FIBER OPTIC LINE TO BE REROUTED BY OTHERS

C/L AGGIE ROAD (ASPHALT SURFACE)

F EXISTING FENCE TO BE REPLACED. COORDINATE W/ OWNER.

S OVERHEAD ELECTRIC GUY WIRES TO REMAIN CT & MAINTAIN) (TYP.)

MATCHLINE C0.12

EXISTING FENCE TO BE REMOVED & DISPOSED (TYP.) (COORDINATE WITH OWNER)

EXISTING CONCRETE TO REMAIN (PROTECT & MAINTAIN)

EXISTING CONCRETE TO REMAIN (PROTECT & MAINTAIN)

EXISTING FENCE & GATE TO REMAIN (PROTECT & MAINTAIN) (TYP.)

EXISTING ASPHALT ROAD TO REMAIN (PROTECT & MAINTAIN) (TYP.)

EXISTING FIBER OPTIC LINE TO REMAIN (PROTECT & MAINTAIN) (TYP.)

EXISTING OVERHEAD ELECTRIC LINES TO REMAIN (PROTECT & MAINTAIN) (TYP.)

EXISTING 24" RCP TO REMAIN (PROTECT & MAINTAIN)

EXISTING FENCE TO BE REMOVED & DISPOSED (TYP.) (COORDINATE WITH OWNER)

EXISTING TRAFFIC SIGN TO BE REMOVED & RETURNED TO OWNER

EXISTING GRAVEL SURFACING TO BE REMOVED AND DISPOSED

EXISTING GAS LINE TO REMAIN (PROTECT & MAINTAIN)

EXISTING WATER LINE TO REMAIN (PROTECT & MAINTAIN) (TYP.)

PETTING ZOO

EXISTING FIBER OPTIC LINE TO BE REROUTED BY OTHERS

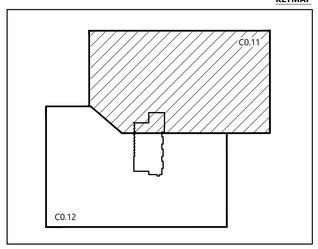
EXISTING FENCE & GATE TO REMAIN (PROTECT & MAINTAIN) (TYP.)

FEMA SPECIAL FLOOD HAZARD AREA SHADED 500 YR ZONE X

EXISTING FIBER OPTIC LINE TO BE REROUTED BY OTHERS

NGHORN DRIVE (PAVED SURFACE)

KEYMAP



1 DEMOLITION PLAN

SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'

FENNELL PURIFOY ARCHITECTS + DAKE | WELLS architecture

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JONESBORO, ARKANSAS

REVISIONS:
ASI 002 03-30-2026

EARLY SITE PACKAGE
03-02-2026

DEMOLITION PLAN
C0.11

1/8/2026 3:34:07 AM

MATCHLINE C0.11

PORTION OF EXISTING FENCE TO BE REMOVED & REPLACED. COORDINATE W/ OWNER.

EXISTING OVERHEAD ELECTRIC POLE AND GUY WIRES TO REMAIN (PROTECT & MAINTAIN) (TYP.)

EXISTING OVERHEAD ELECTRIC LINE TO REMAIN (PROTECT & MAINTAIN)

PORTION OF EXISTING SEWER TO REMAIN (PROTECT & MAINTAIN)

CAP AND ABANDON SEWER LINE SOUTHEAST OF EXISTING MANHOLE (REF. UTILITY PLAN)

SSMH
TOP=272.19
INV=266.86 (SE)
INV=266.84 (NW)

PROPERTY/ROW LINE

EXISTING FENCE TO BE REMOVED & DISPOSED. COORDINATE W/ OWNER.

L=380.20
R=360.00
CH=362.78
CH BRG=N56°09'48"E

FEMA SPECIAL FLOOD HAZARD AREA SHADED 500 YR ZONE X

EXISTING FIBER OPTIC LINE TO BE REROUTED BY OTHERS (COORDINATE WITH OWNER)

EXISTING FIBER OPTIC LINE TO BE REROUTED BY OTHERS

EXISTING FENCE & GATE TO BE REMOVED & DISPOSED (TYP.) (COORDINATE WITH OWNER)

EXISTING HYDRANT TO BE CAPPED OR RELOCATED BY OWNER

EXISTING FIBER OPTIC BOX TO BE REMOVED OR RELOCATED BY OTHERS (COORDINATE WITH OWNER)

EXISTING CONCRETE TO REMAIN (PROTECT & MAINTAIN)

EXISTING FENCE & GATE TO REMAIN (PROTECT & MAINTAIN) (TYP.)

EXISTING FENCE & GATE TO REMAIN (PROTECT & MAINTAIN) (TYP.)

EXISTING SANITARY SEWER MANHOLE TO BE REMOVED AND DISPOSED

EXISTING TREES TO BE REMOVED & DISPOSED (TYP.)

EXISTING TREES TO BE REMOVED & DISPOSED (TYP.)

PORTION OF EXISTING FENCE TO BE REMOVED & DISPOSED (TYP.) (COORDINATE WITH OWNER)

EXISTING BARN TO BE REMOVED AND RELOCATED. COORDINATE W/ OWNER.

ABANDON SEWER LINE NORTHWEST OF THIS POINT TO EXISTING MANHOLE & FILL WITH FLOWABLE FILL TO CAP. (REF. UTILITY PLAN)

EXISTING TREES TO REMAIN (PROTECT & MAINTAIN) (TYP.)

TREE PROTECTION FENCING (TYP.) 1 C0.20

8" SEWER LINE

SPIGOT

ELECTRIC FENCE

CULTIVATION LINE

CULTIVATION FIELD

CULVERT

RAIN GAUGE

INV=277.30
12" RCP

18" HDPE

INV=276.79
18" HDPE

OVERHEAD DOOR

DS

SINGLE DOOR

GRAVEL SURFACE

FFE=280.42

METAL FENCE

GATE

CONCRETE

KEYMAP

C0.11

C0.12

1 DEMOLITION PLAN

SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

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STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 19108 ROBERT HAZEN HELVEY 03.02.26

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JONESBORO, ARKANSAS

REVISIONS:
ASI 002 05-30-2026

EARLY SITE PACKAGE
03-02-2026

DEMOLITION PLAN
C0.12

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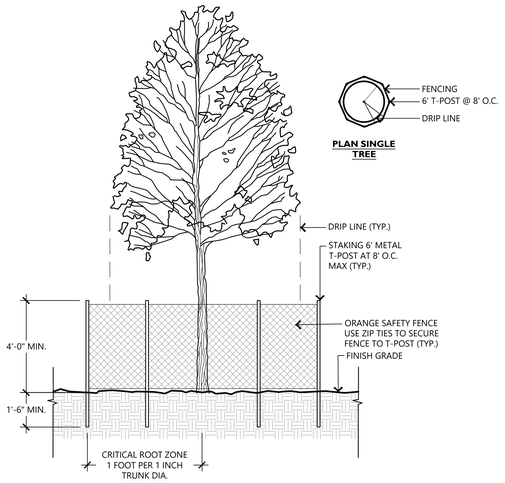
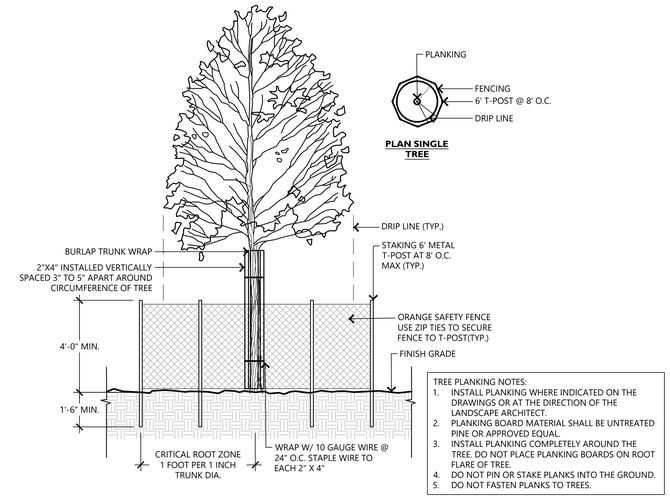
TREE PROTECTION NOTES:

1. ALL TREES SHOWN ON THIS PLAN TO BE RETAINED SHALL BE PROTECTED DURING CONSTRUCTION WITH TEMPORARY FENCING.
2. PROTECTIVE FENCES SHALL BE INSTALLED PRIOR TO THE START OF ANY SITE PREPARATION WORK AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROJECT.
3. EROSION AND SEDIMENTATION CONTROL BARRIERS SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD-UP WITH TREE DRIPLINES.
4. PROTECTIVE FENCES SHALL SURROUND THE TREES OR GROUP OF TREES AND WILL BE LOCATED AT THE DRIPLINE. FOR NATURAL AREAS PROTECTIVE FENCES SHALL FOLLOW THE LIMITS OF CONSTRUCTION IN ORDER TO PREVENT THE FOLLOWING:
   - 4.A. SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT.
   - 4.B. ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN 6") OR ROOT TRENCHING NOT VIEWED BY CITY ARBORISTS.
   - 4.C. WOUNDS TO EXPOSED ROOTS, TRUNK OR LIMBS BY MECHANICAL EQUIPMENT.
   - 4.D. OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CONCRETE TRUCK CLEANING, AND FIRES.
5. EXCEPTIONS TO INSTALLING FENCES AT TREE DRIPLINES MAY BE PERMITTED IN THE FOLLOWING CASES:
   - 5.A. WHERE THERE IS TO BE AN APPROVED GRADE CHANGE , IMPERMEABLE PAVING SURFACED, TREE WELL, OR OTHER SUCH SITE DEVELOPMENT
   - 5.B. WHERE PERMEABLE PAVING IS TO BE INSTALLED WITHIN A TREE'S DRIPLINE, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA (PRIOR TO SITE GRADING SO THE AREA IS GRADED SEPARATELY PRIOR TO PAVING INSTALLATION TO MINIMIZE ROOT DAMAGE.
   - 5.C. WHERE TREES ARE CLOSE TO THE PROPOSED BUILDINGS, ERECT THE FENCE TO ALLOW 6 TO 10 FEET OF WORK SPACE.
   - 5.D. WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE OR OTHER SPECIAL REQUIREMENTS.
6. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE BEING CLOSER THAN 4 FEET TO A TRUNK, PROTECT THE TRUNK WITH STRAPPED ON PLANKING TO HEIGHT OF 8 FEET (OR LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING PROVIDED.
7. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.
8. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOPSOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN 2 DAYS, COVER WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
9. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
10. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN 4 INCHES SHALL BE PERMITTED WITHIN THE DRIPLINE OF TREES. NO SOIL IS PERMITTED ON THE ROOT FLARE OF ANY TREE.
11. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS.
12. ALL FINISHED PRUNING MUST BE DONE ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE INDUSTRY (REFERENCE THE AMERICAN NATIONAL STANDARD, ANSI-A300 PRUNING, 2008 OR LATER).



1 TREE PRESERVATION FENCING INSTALLATION DETAIL

SCALE: N.T.S.

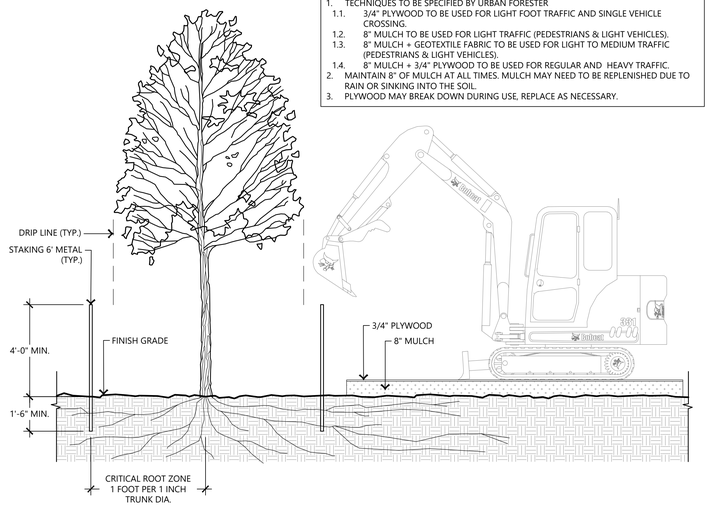


TREE PLANKING NOTES:
1. INSTALL PLANKING WHERE INDICATED ON THE DRAWINGS OR AT THE DIRECTION OF THE LANDSCAPE ARCHITECT.
2. PLANKING BOARD MATERIAL SHALL BE UNTREATED PINE OR APPROVED EQUAL.
3. INSTALL PLANKING COMPLETELY AROUND THE TREE. DO NOT PLACE PLANKING BOARDS ON ROOT FLARE OF TREE.
4. DO NOT PIN OR STAKE PLANKS INTO THE GROUND.
5. DO NOT FASTEN PLANKS TO TREES.

2 TREE PRESERVATION FENCING & PLANKING DETAIL

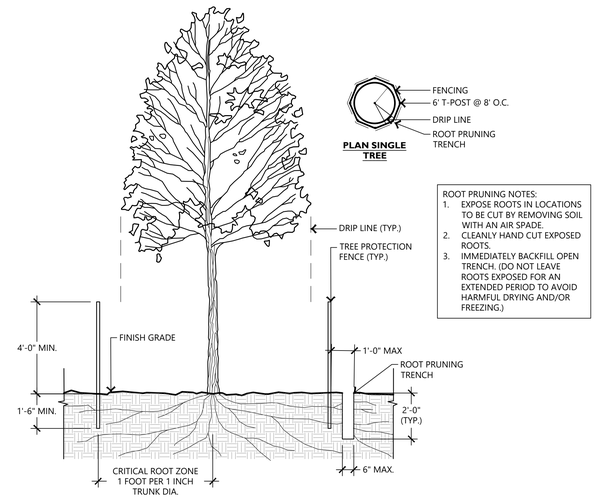
SCALE: N.T.S.

SOIL COMPACTION PREVENTION NOTES:
1. TECHNIQUES TO BE SPECIFIED BY URBAN FORESTER
   - 1.1. 3/4" PLYWOOD TO BE USED FOR LIGHT FOOT TRAFFIC AND SINGLE VEHICLE CROSSING.
   - 1.2. 8" MULCH TO BE USED FOR LIGHT TRAFFIC (PEDESTRIANS & LIGHT VEHICLES).
   - 1.3. 8" MULCH + GEOTEXTILE FABRIC TO BE USED FOR LIGHT TO MEDIUM TRAFFIC (PEDESTRIANS & LIGHT VEHICLES).
   - 1.4. 8" MULCH + 3/4" PLYWOOD TO BE USED FOR REGULAR AND HEAVY TRAFFIC.
2. MAINTAIN 8" OF MULCH AT ALL TIMES. MULCH MAY NEED TO BE REPLENISHED DUE TO RAIN OR SINKING INTO THE SOIL.
3. PLYWOOD MAY BREAK DOWN DURING USE, REPLACE AS NECESSARY.



3 SOIL COMPACTION PREVENTION DETAIL

SCALE: N.T.S.



ROOT PRUNING NOTES:
1. EXPOSE ROOTS IN LOCATIONS TO BE CUT BY REMOVING SOIL WITH AN AIR SPADE.
2. CLEANLY HAND CUT EXPOSED ROOTS.
3. IMMEDIATELY BACKFILL OPEN TRENCH. (DO NOT LEAVE ROOTS EXPOSED FOR AN EXTENDED PERIOD TO AVOID HARMFUL DRYING AND/OR FREEZING.)

4 ROOT PRUNING DETAIL

SCALE: N.T.S.

ASU CREST EARLY SITE PACKAGE

JONESBORO, ARKANSAS

ARKANSAS 811

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TREE PRESERVATION NOTES & DETAILS

EARLY SITE PACKAGE
03-02-2026

C0.20

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FENNELL PURIFOY ARCHITECTS + DAKE | WELLS architecture

STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No. 19108 — HAZEN — 03.02.26

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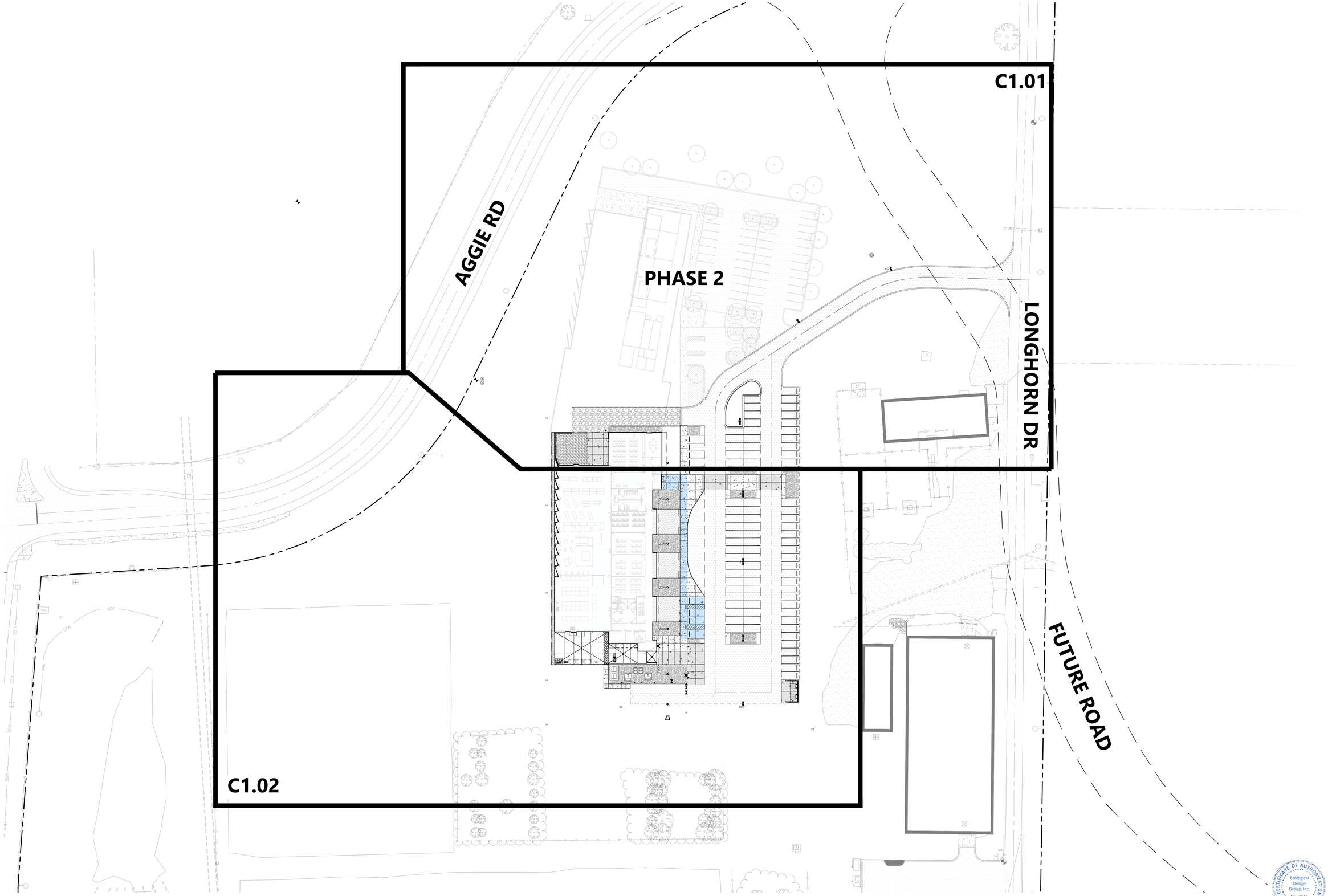


1 OVERALL SITE PLAN

SCALE: 1" = 40'-0"

NORTH

0' 40' 80' 160'

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 19108 ROBERT HAZEN JEFFEY 5.18.26

CERTIFICATE OF AUTHORIZATION Ecological Design Group, Inc. No. 2511 ARKANSAS

ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER
JONESBORO, ARKANSAS

REVISIONS:

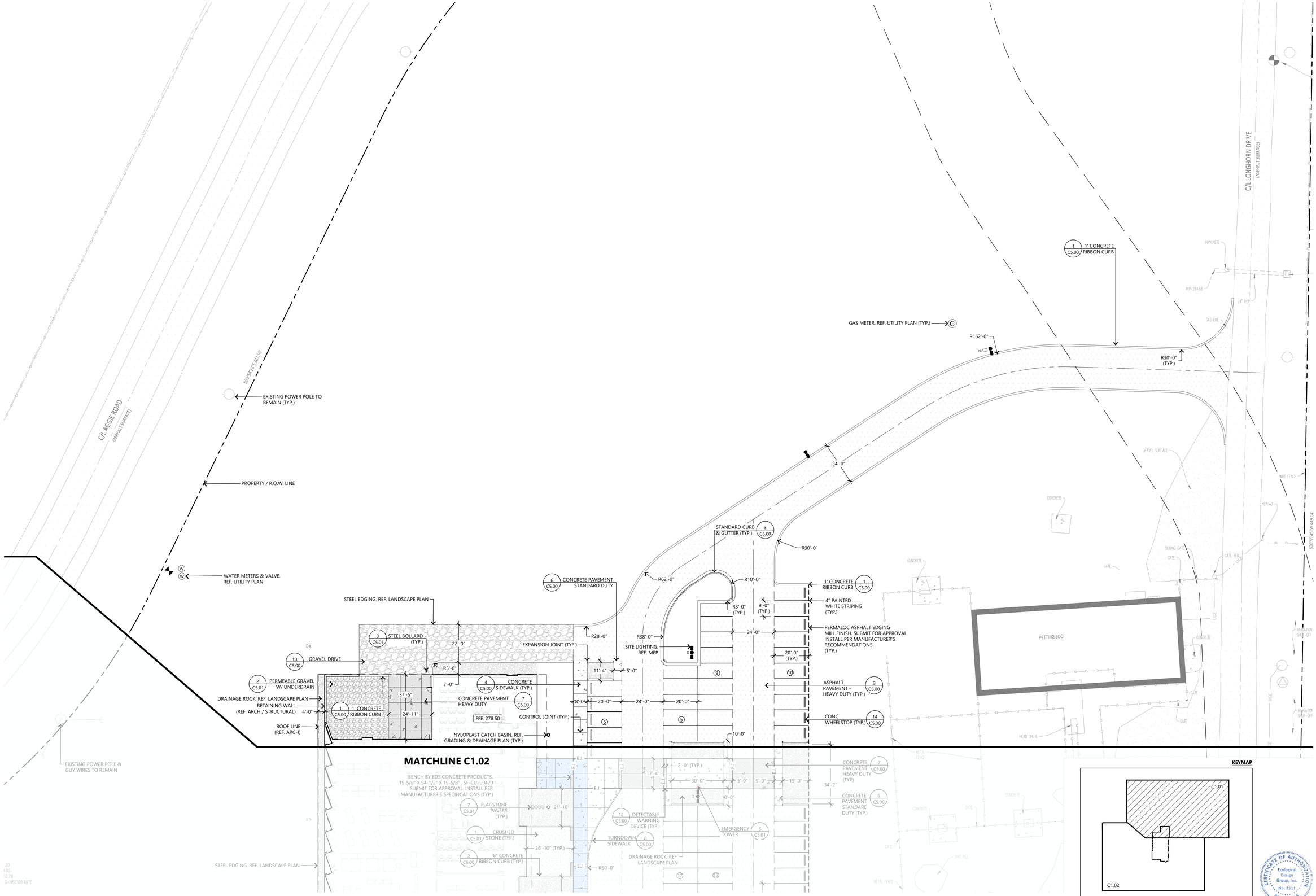
100% CONSTRUCTION DOCUMENTS
05-18-2026

OVERALL SITE PLAN
C1.00

1/8/2026 9:34:01 AM

ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER

JONESBORO, ARKANSAS



1 SITE PLAN

SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

Certificate of Authorization — Ecological Design Group, Inc. — No. 2511 — Arkansas

State of Arkansas — Licensed Professional Engineer — No. 19108 — Robert Hazen Hewes — 5.18.26

REVISIONS:

100% CONSTRUCTION DOCUMENTS
05-18-2026

SITE PLAN C1.01

1/8/2026 9:54:07 AM

ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER

JONESBORO, ARKANSAS

MATCHLINE C1.01

C/L AGGIE ROAD
(ASPHALT SURFACE)

PROPERTY / R.O.W. LINE

EXISTING POWER POLE & GUY WIRES TO REMAIN

WATER METERS & VALVE. REF. UTILITY PLAN

L=380.20
R=360.00
CH=362.78
CH BRG=N56°09'48"E

CULTIVATION LINE

CULTIVATION FIELD

STEEL EDGING. REF. LANDSCAPE PLAN

GRAVEL DRIVE

PERMEABLE GRAVEL W/ UNDERDRAIN

DRAINAGE ROCK. REF. LANDSCAPE PLAN

RETAINING WALL (REF. ARCH / STRUCTURAL)

ROOF LINE (REF. ARCH)

1' CONCRETE RIBBON CURB

STEEL BOLLARD (TYP.)

CONCRETE SIDEWALK (TYP.)

CONCRETE PAVEMENT HEAVY DUTY

CONCRETE PAVEMENT STANDARD DUTY

EXPANSION JOINT (TYP.)

CONTROL JOINT (TYP.)

NYLOPLAST CATCH BASIN. REF. GRADING & DRAINAGE PLAN (TYP.)

FFE: 278.50

BENCH BY EDS CONCRETE PRODUCTS. 19-5/8" X 94-1/2" X 19-5/8" . SF-CU209420 SUBMIT FOR APPROVAL. INSTALL PER MANUFACTURER'S SPECIFICATIONS (TYP.)

FLAGSTONE PAVERS (TYP.)

CRUSHED STONE (TYP.)

6" CONCRETE RIBBON CURB (TYP.)

ADA PATH

ROOF LINE & SCUPPERS REF. ARCH. (TYP.)

ADA PARKING SIGNAGE STANDARD (TYP.)

DETECTABLE WARNING DEVICE (TYP.)

ADA PARKING SIGNAGE VAN

FDC. REF. UTILITY PLAN (TYP.)

TURNDOWN CONC. PAD (REF. ARCH / STRUCTURAL)

FENCE / GATE (REF. ARCH)

TRANSFORMER. REF. UTILITY PLAN

TURNDOWN SIDEWALK

DRAINAGE ROCK. REF. LANDSCAPE PLAN

EMERGENCY TOWER

SITE LIGHTING. REF. MEP

ADA PARKING SPACE (TYP.)

(3) REMOVABLE BOLLARDS AT LOADING AREA. REF. ARCH

FIRE HYDRANT. REF. UTILITY PLAN

PRECAST CONC. HEADWALL. REF. GRADING & DRAINAGE PLAN (TYP.)

PERMALOC ASPHALT EDGING MILL FINISH. SUBMIT FOR APPROVAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS (TYP.)

4" PAINTED WHITE STRIPING (TYP.)

ASPHALT PAVEMENT - HEAVY DUTY (TYP.)

CONC. WHEELSTOP (TYP.)

DUMPSTER ENCLOSURE (REF. ARCH)

CONCRETE PAVEMENT HEAVY DUTY (TYP)

ELECTRIC FENCE

PETTING ZOO

DIRT PILE

GRAVEL PILE

GRAVEL SURFACE

HEAD HOUSE

METAL FENCE

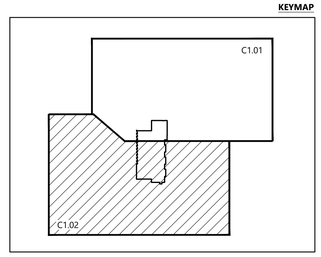
GRAVEL

UGE

CONCRETE

GATE

KEYMAP



1 SITE PLAN

SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

Ecological Design Group, Inc. No. 2511 ARKANSAS

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 19108 ROBERT HAZEN HOLLEY 5.18.26

REVISIONS:

100% CONSTRUCTION DOCUMENTS
05-18-2026

SITE PLAN C1.02

1/8/2026 9:34:07 AM

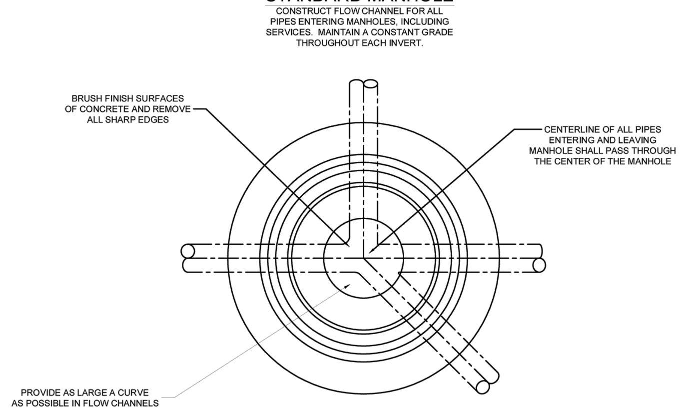
1 MANHOLE DETAILS
N.T.S.

NOTES:
(1) MANHOLE BASES TO BE 4000 PSI, 28-DAY STRENGTH, LIMESTONE MIX CONCRETE ON UNDISTURBED SUB-GRADE OR ON COMPACTED SELECT FILL MATERIAL AS AUTHORIZED.
(2) MANHOLE SIDEWALL MATERIAL TO BE CONCRETE IN ACCORDANCE WITH PROPOSAL FORM REQUIREMENTS:
- (a) 4' I.D. FOR SEWER SIZES 6" THRU 24"
- (b) 5' I.D. FOR SEWER SIZES 24" THRU 30"
- (c) 6' I.D. FOR SEWER SIZES 36" THRU 42"

(3) SET MANHOLE TOPS AS FOLLOWS:
- (a) IN STREETS, ROADS, HIGHWAYS, AND OTHER PAVED AREAS. FLUSH WITH FINISHED PAVING GRADE.
- (b) UNDEVELOPED AREAS, SUCH AS FIELDS, WOODS, ETC.: 12" ABOVE GROUND.
- (c) OTHER AREAS: 1" ABOVE GROUND.

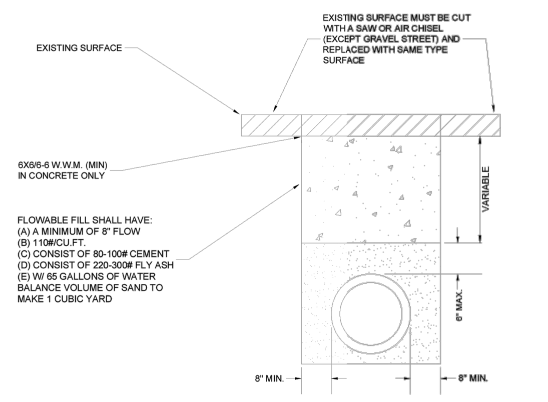
(4) MANHOLE FRAMES SHALL HAVE A MIN. OPENING OF 22" DIA.
(5) ALL DOGHOUSE MANHOLES TO BE INSTALLED WITH A-LOK WEDGE STYLE WATER STOP KITS.

STANDARD MANHOLE



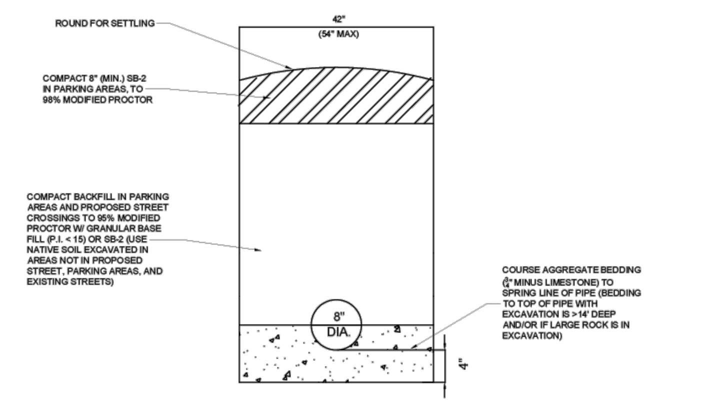
2 EXISTING STREET LOCATIONS
N.T.S.

NOTES:
(1) CONTRACTOR SHALL OBTAIN A STREET CROSSING PERMIT FROM THE CITY OF JONESBORO PRIOR TO CUTTING STREET.
(2) EXCAVATED MATERIAL SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
(3) THIS REPAIR DETAIL IS REQUIRED FOR ALL EXCAVATION WITHIN 5' OF PAVED EDGE AND ALL TRANSVERSE EXCAVATIONS TO EXTEND 3' BEYOND PAVED EDGE.
(4) LEAVE FLOWABLE FILL:
- 2" BELOW ASPHALT SURFACE
- 6" BELOW CONCRETE SURFACE
- 6" BELOW GRAVEL SURFACE



3 NON-EXISTING STREET LOCATIONS SDR-26 PVC TRENCH DETAIL
N.T.S.

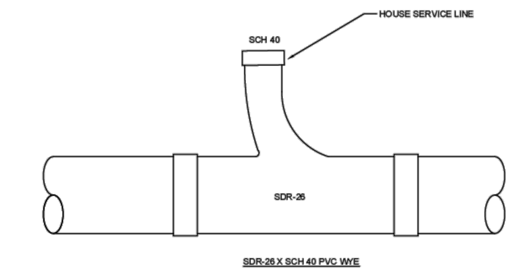
NOTES:
(1) COARSE AGGREGATE SHALL BE MECHANICALLY TAMPED WHEN USED.
(2) PIPE IN TRENCH SHALL BE PLACED ON NO LESS THAN 4" OF $\frac{3}{4}$" MINUS LIMESTONE. ALL OVER EXCAVATION SHALL BE COMPACTED BACK TO GRADE W/ BEDDING MATERIAL.
(3) PVC PIPE SHALL BE SDR-26 AND INSTALLED IN ACCORDANCE WITH UNI-BELL PVC PIPE ASSOCIATION'S RECOMMENDATIONS FOR CONSTRUCTION.



4 SINGLE WYE
N.T.S.

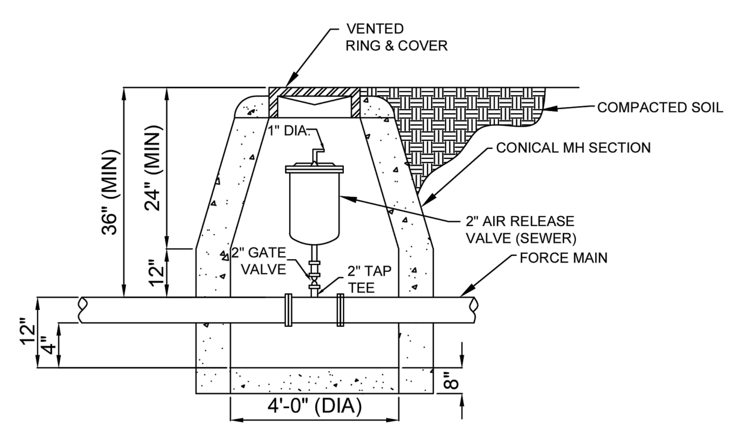
NOTES:
(1) ALL SERVICE LINES UNDER PAVEMENT SHALL BE PVC SCH 40 PIPE W/ PVC SCH 40 COUPLINGS

TEE WYE ONLY



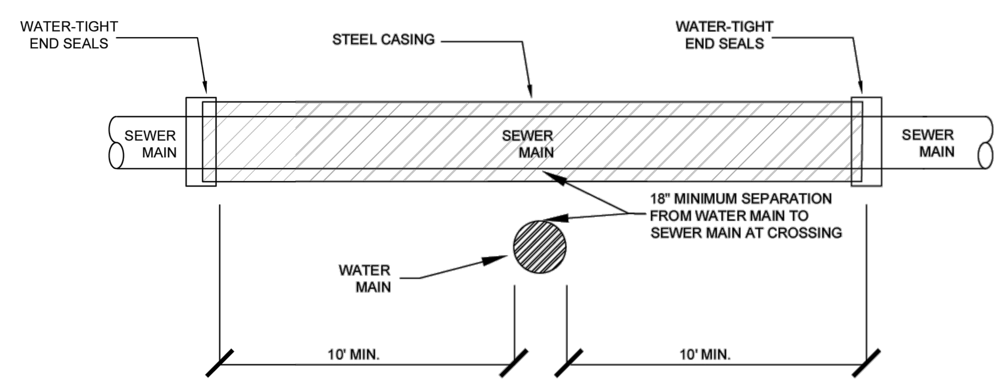
5 AIR/VACUUM RELEASE VALVE DETAIL
N.T.S.

NOTES:
(1) TOP & WALL CONSTRUCTION TO BE SAME AS MANHOLE
(2) DRILL 12-5/8" HOLES IN COVER: 6 ON 8" CIRCLE & 6 ON 16" CIRCLE

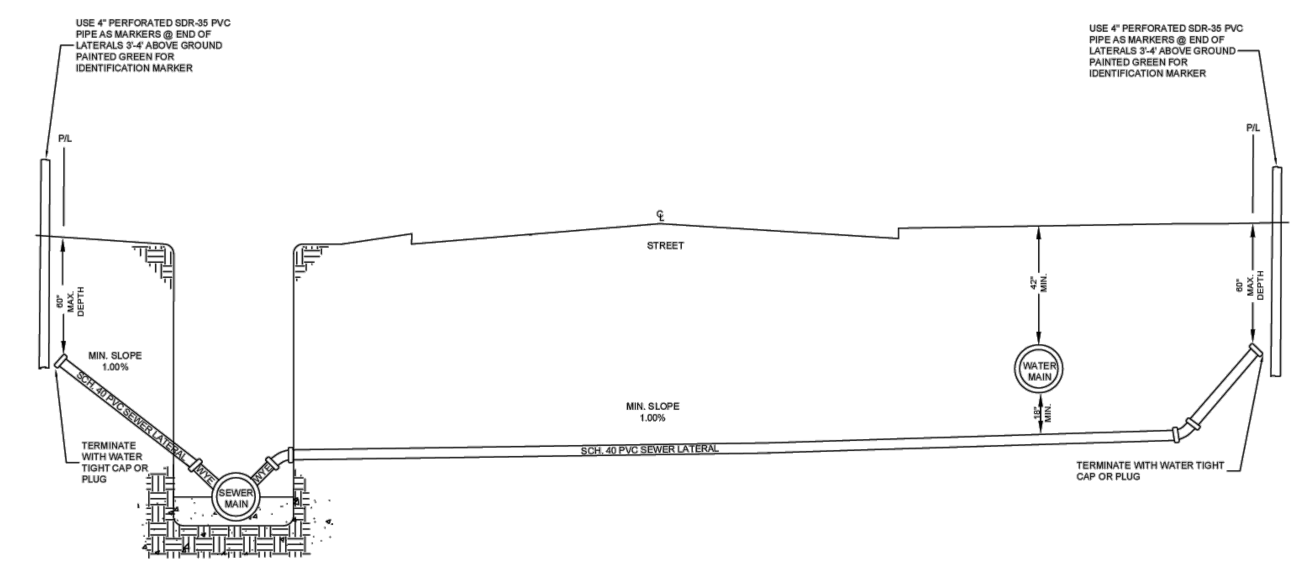


6 ENCASEMENT FOR SEWER MAINS AT WATER CROSSINGS
N.T.S.

NOTES:
(1) WHEN 18" VERTICAL SEPARATION CANNOT BE MAINTAINED, JOINTS SHALL BE LOCATED SUCH THAT THEY ARE EQUAL DISTANCE BEFORE AND AFTER CROSSING.
(2) 0.25", OR 0.50" AS REQUIRED, THICKNESS STEEL ENCASEMENT PIPE SHALL EXTEND 10' MINIMUM EACH SIDE OF WATER MAIN
(3) FLEXIBLE WATER TIGHT END SEALS WITH STAINLESS STEEL BAND, CASCADE MODEL #CCES OR EQUAL
(4) REFER TO PLANS FOR GRADE SEPARATION
(5) CASING SPACERS TO BE INSTALLED, AS REQUIRED
(6) WHERE A WATER LINE MUST UNAVOIDABLY PASS BENEATH THE SEWER LINE, AT LEAST 18 INCHES OF VERTICAL SEPARATION MUST BE MAINTAINED BETWEEN THE OUTSIDE OF THE TWO PIPES IN ADDITION TO THE PRECEDING ENCASEMENT REQUIREMENT.

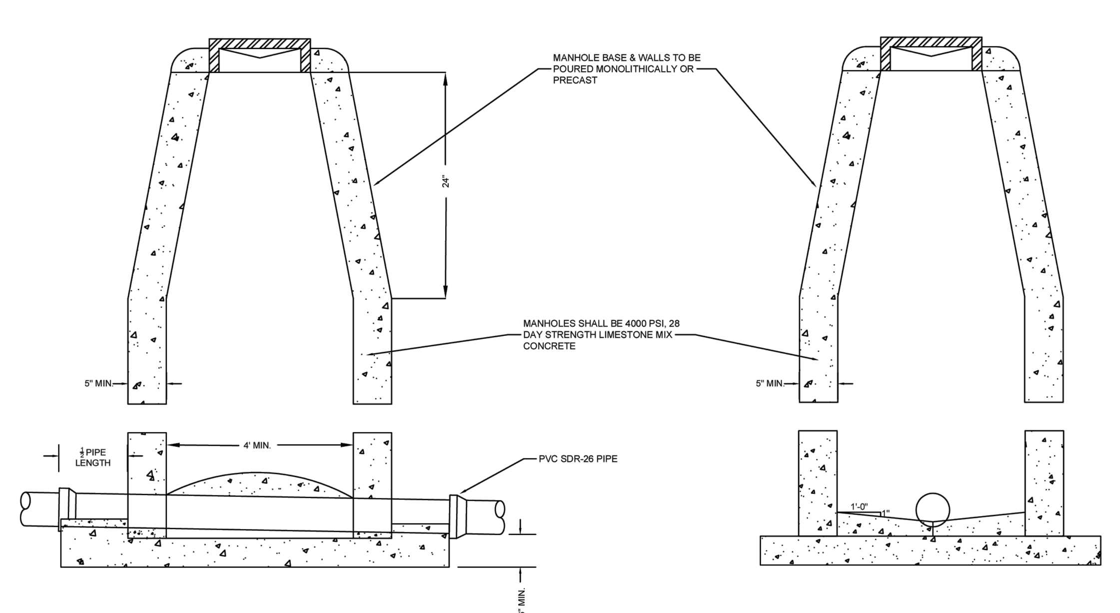


7 SEWER LATERAL STUBOUT PERMITS REQUIRED BEFORE INSTALLATION
(USE SAME CONFIGURATION FOR MANHOLES STUBOUTS)
N.T.S.



8 STANDARD MANHOLE
N.T.S.

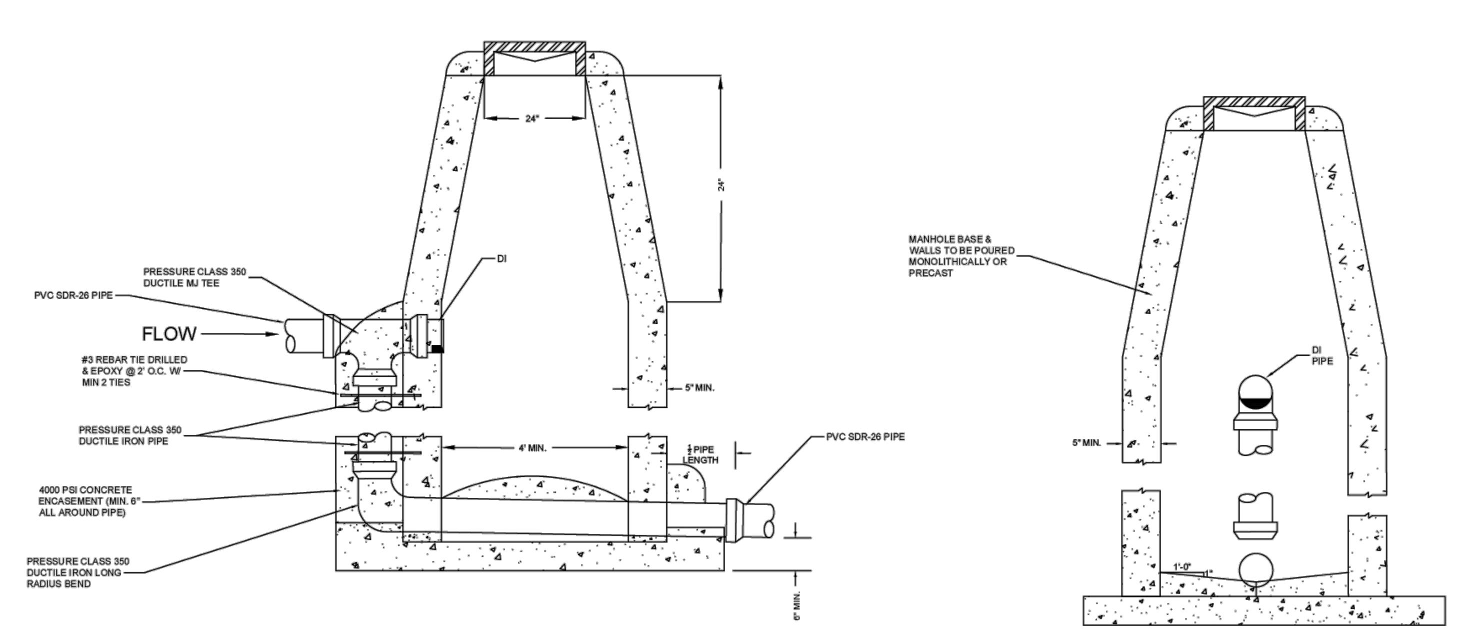
NOTES:
(1) MANHOLES SHALL BE PRECAST W/ NEOPRENE GASKETS AS APPROVED BY ENGINEER AND/OR UTILITY COMPANY



SIDE VIEW

FRONT VIEW

9 DROP MANHOLE
N.T.S.

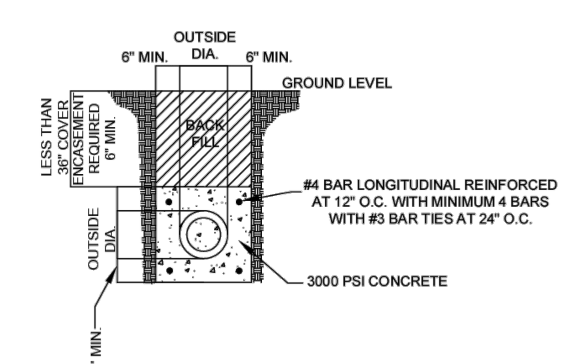


SIDE ELEVATION

SECTION A-A

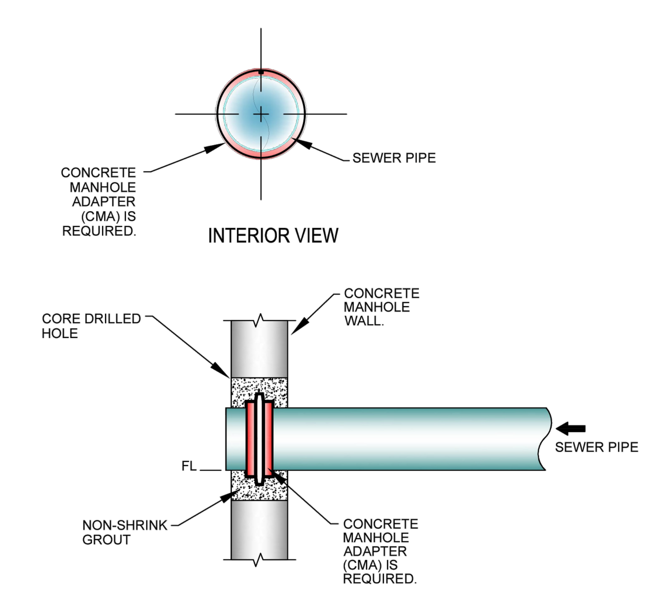
10 CONCRETE ENCASEMENT FOR DITCH CROSSINGS
N.T.S.

NOTE:
(1) ENCASEMENT PIPE MUST BE PRESSURE CLASS 350 DUCTILE IRON AND WRAP DUCTILE IRON PIPE WITH 8 MIL PLASTIC



1 JONESBORO CWL SEWER DETAILS
SCALE: NTS

THE INSTALLATION SHALL BE DYE TESTED FOR ACCEPTANCE.



2 MANHOLE CORING DETAIL
SCALE: NTS

ASU CREST EARLY SITE PACKAGE
JONESBORO, ARKANSAS

ARKANSAS 811

REVISIONS:
ASI 001 03-09-2026
ASI 002 03-30-2026

EARLY SITE PACKAGE
03-02-2026

CERTIFICATE OF AUTHORIZATION Ecological Design Group, Inc. No. 2511 ARKANSAS

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 19108 ROBERT HAZEN HELVEY
03.02.26

UTILITY DETAILS
C1.20

1/8/2026 9:34:07 AM

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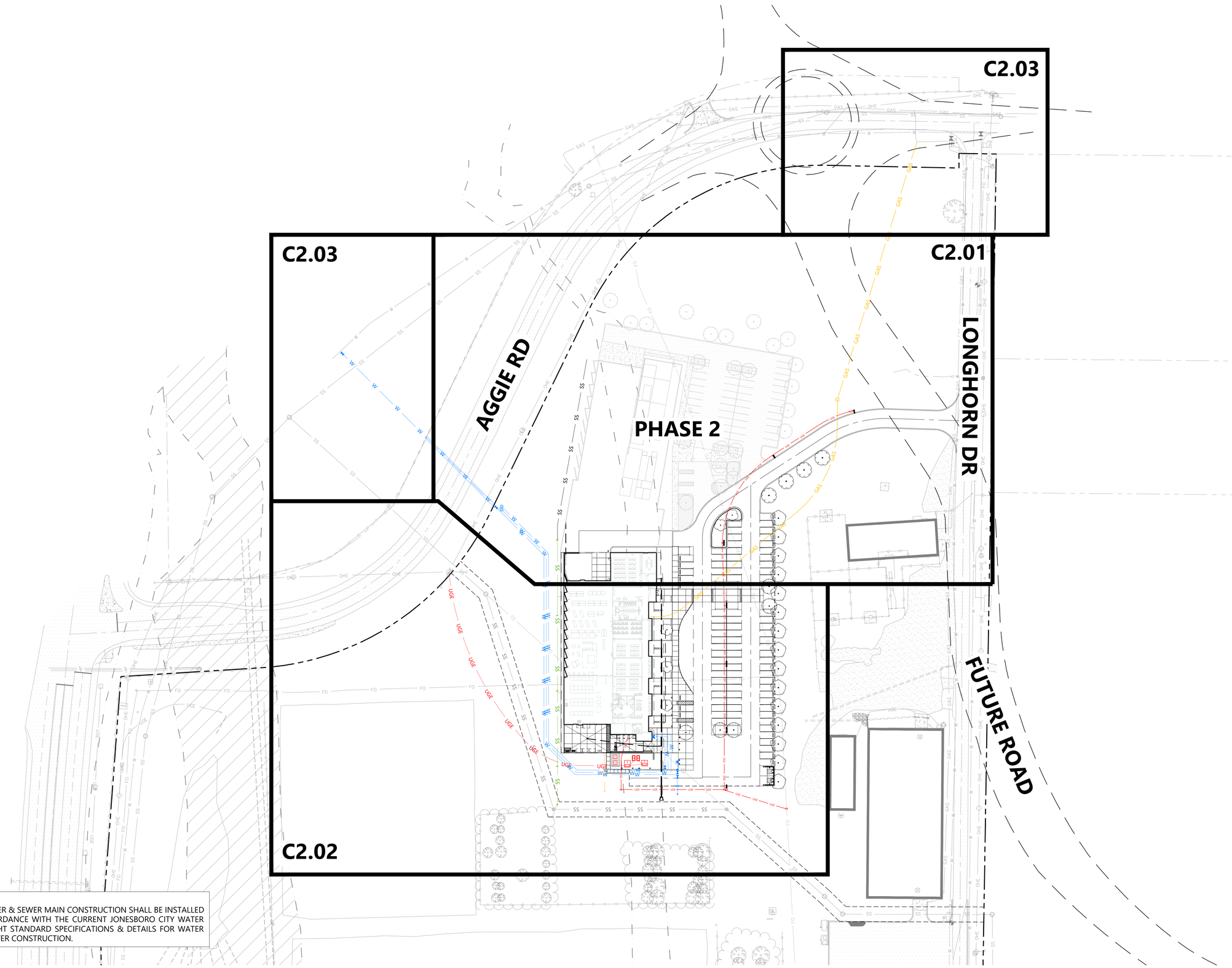
JONESBORO, ARKANSAS



NOTE:
ALL WATER & SEWER MAIN CONSTRUCTION SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT JONESBORO CITY WATER AND LIGHT STANDARD SPECIFICATIONS & DETAILS FOR WATER AND SEWER CONSTRUCTION.

1 OVERALL UTILITY PLAN

SCALE: 1" = 50'-0"

NORTH

0' 50' 100' 200'

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

CERTIFICATE OF AUTHORIZATION Ecological Design Group, Inc. No. 2511 ARKANSAS

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 19108 BRADLEY HAZEN JESTES 5.18.26

REVISIONS:

100% CONSTRUCTION DOCUMENTS
05-18-2026

OVERALL UTILITY PLAN
C2.00

1/8/2026 9:34:07 AM

ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER

JONESBORO, ARKANSAS

MATCHLINE 1 / C2.03

MATCHLINE 2 / C2.03

MATCHLINE C2.02

C/L AGGIE ROAD (ASPHALT SURFACE)

C/L LONGHORN DRIVE (ASPHALT SURFACE)

8" DIP (CLASS 350) PUBLIC WATER MAIN (CONTINUES NORTHWEST. REF. C2.03 FOR CONTINUATION)

ENCASED 8" DIP WATER MAIN UNDER AGGIE ROAD ROW PER CWL STANDARD DETAIL #15 "WATER BORE DETAIL"

FUTURE 6" SANITARY SEWER SERVICE PIPE FOR PHASE 2 BUILDING SHOWN FOR REFERNCE ONLY. NOT IN SCOPE OF WORK.

DEMARCATION VALVE (WATER MAIN PRIVATE FROM THIS POINT)

1-1/2" IRRIGATION WATER METER

DOMESTIC WATER METER. SIZE PER CWL. PEAK DEMAND: 240 GPM

TYPICAL DOMESTIC AND IRRIGATION SERVICE WATER TAPS. METERS PROVIDED BY CWL.

6" SANITARY SEWER CLEANOUT AS MARKER FOR CONTINUATION TO PHASE 2 BUILDING INV: 271.46

8" DIP (CLASS 350) PRIVATE WATER MAIN

8" 45 DEGREE BEND & THRUST BLOCK

END OF FUTURE 6" SANITARY SEWER SERVICE PIPE EXTENSION FOR PHASE 2 BUILDING LOWEST POSSIBLE INV: 273.88

FEMA SPECIAL FLOOD HAZARD AREA SHADED 500 YR ZONE X

360 LF OF 6" SANITARY SEWER SERVICE PIPE @ MIN. 1.00% SLOPE

FFE: 278.50

6" X 4" SANITARY SEWER WYE INV: 270.69

4" SANITARY SEWER SERVICE FROM DCOTG @ BUILDING (REF. MEP FOR CONTINUATION) INV @ BUILDING: 272.92±

6 LF OF 4" SANITARY SEWER SERVICE PIPE @ MIN. 1.00% SLOPE

CLEANOUTS TO GRADE ON 6" LINE NO FURTHER THAN 100' APART AND IMMEDIATELY UPSTREAM OF ANY/ALL BENDS (TYP.)

GAS SERVICE ENTRANCE TO BUILDING (REF. MEP FOR CONTINUATION)

3" PROPOSED GAS SERVICE LINE TO BUILDING (REF. MEP)

GAS MAIN EXTENSION CONTINUES TO EXISTING GAS MAIN @ SOUTHWEST CORNER OF AGGIE ROAD AND LONGHORN DRIVE. COORDINATE WITH SUMMIT UTILITIES. (REF. C2.03 FOR CONTINUATION)

PROPOSED GAS MAIN LINE EXTENSION @ LINE PRESSURE (COORDINATE WITH SUMMIT UTILITIES)

APPROXIMATE FUTURE R.O.W. OF ARDOT HIGHWAY

PROPOSED GAS METER LOCATION
TOTAL GAS LOAD: 9400 MBH
DELIVERY PRESSURE TO BUILDING: 5 PSI

QUAZITE BOX AND DATA CONDUIT FOR POLE MOUNTED CAMERAS, TYP. (REF. MEP)

PANO CAMERA ON POLE & NEMA BOX MOUNTED ON GROUND WEST OF POLE (REF. MEP)

PANO CAMERA MOUNTED ON POLE (REF. MEP)

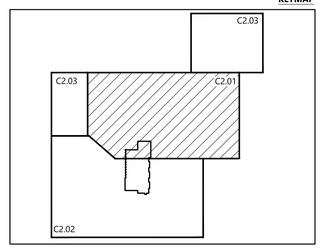
EMERGENCY TOWER W/ 3 CAMERAS (REF. MEP)

3" PROPOSED GAS SERVICE LINE TO BUILDING (REF. MEP)

PETTING ZOO

NOTE:
ALL WATER & SEWER MAIN CONSTRUCTION SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT JONESBORO CITY WATER AND LIGHT STANDARD SPECIFICATIONS & DETAILS FOR WATER AND SEWER CONSTRUCTION.

KEYMAP



1 UTILITY PLAN

SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 19108 JOSEPH HAZEN HELVEY 5.18.26

CERTIFICATE OF AUTHORIZATION Ecological Design Group, Inc. No. 2511 ARKANSAS

REVISIONS:

100% CONSTRUCTION DOCUMENTS
05-18-2026

UTILITY PLAN C2.01

1/8/2026 9:54:07 AM

ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER
JONESBORO, ARKANSAS

MATCHLINE 1 / C2.03

MATCHLINE C2.01

C/L AGGIE ROAD
(ASPHALT SURFACE)

DEMARCATION VALVE
(WATER MAIN PRIVATE FROM THIS POINT)

1-1/2" IRRIGATION WATER METER

DOMESTIC WATER METER. SIZE PER CWL.
PEAK DEMAND: 240 GPM

TYPICAL DOMESTIC AND IRRIGATION SERVICE WATER TAPS. METERS PROVIDED BY CWL.

6" SANITARY SEWER CLEANOUT AS MARKER FOR CONTINUATION TO PHASE 2 BUILDING
INV: 271.46

8" DIP (CLASS 350) PRIVATE WATER MAIN

8" 45 DEGREE BEND & THRUST BLOCK

360 LF OF 6" SANITARY SEWER SERVICE PIPE @ MIN. 1.00% SLOPE

FFE: 278.50

SSMH
TOP=272.19
INV=266.86 (SE)
INV=266.84 (NW)

DIP OHE TO UGE. CONTRACTOR SHALL COORDINATE WITH JONESBORO CWL.

L=380.20
R=360.00
CH=362.78
CH BRG=N56°09'48"E

PRIMARY UNDERGROUND ELECTRICAL CONDUIT. CONTRACTOR SHALL COORDINATE WITH JONESBORO CWL (REF. MEP FOR SITE ELECTRICAL PLAN)

20' WIDE UTILITY EASEMENT TO BE RECORDED BY OTHERS

20'-0"

296 LF OF 10" PVC (SDR 26) SANITARY SEWER MAIN @ MIN 0.28% SLOPE

13'-11"

8" 45 DEGREE BEND & THRUST BLOCK

6" SANITARY SEWER SERVICE & 8" PRIVATE WATER MAIN CROSSING. MAINTAIN 18" MIN. CLEAR SEPARATION BETWEEN WATER MAIN AND SEWER SERVICE
6" SANITARY SEWER INV: 268.56
8" WATER MAIN INVERT:
REF. WATER MAIN PLAN & PROFILE

8" 45 DEGREE BEND & THRUST BLOCK

SSMH #1
RIM: 271.69
PROPOSED 6" INV IN: 267.86
INVERT E: 267.79
INVERT NW: 267.69
DEPTH: 4'

6" 45° SANITARY SEWER PIPE ELBOW

226 LF OF 10" PVC (SDR 26) SANITARY SEWER MAIN @ MIN 0.28% SLOPE

6" X 4" SANITARY SEWER WYE
INV: 270.69

4" SANITARY SEWER SERVICE FROM DCOTG @ BUILDING (REF. MEP FOR CONTINUATION)
INV @ BUILDING: 272.92±

6 LF OF 4" SANITARY SEWER SERVICE PIPE @ MIN. 1.00% SLOPE

CLEANOUTS TO GRADE ON 6" LINE NO FURTHER THAN 100' APART AND IMMEDIATELY UPSTREAM OF ANY/ALL BENDS (TYP.)

FFE: 278.50

8" DIP (CLASS 350) PRIVATE WATER MAIN

360 LF OF 6" SANITARY SEWER SERVICE PIPE @ MIN. 1.00% SLOPE

6" X 4" SANITARY SEWER WYE
INV: 269.42

4" SANITARY SEWER SERVICE FROM DCOTG @ BUILDING (REF. MEP FOR CONTINUATION)
INV @ BUILDING: 272.92

6 LF OF 4" SANITARY SEWER SERVICE PIPE @ MIN. 1.00% SLOPE

ALL RPZS/BACKFLOW PREVENTORS FOR DOMESTIC, IRRIGATION & FIRE SERVICES SHALL BE LOCATED IN THE RISER ROOM
(REF. MEP & ALIGN SITE WATER LINE ENTRANCES WITH MEP DRAWINGS)

SECONDARY ELECTRICAL SERVICE TO BUILDING FROM MAIN BREAKER(S) (REF. MEP FOR CONTINUATION)

(2) PAD MOUNTED TRANSFORMERS & (2) MAIN DISCONNECT PANELS (REF. MEP)

FIBER CONNECTION TO BUILDING (REF. MEP FOR CONTINUATION)

FIBER CONNECTION FROM EXISTING ASTATE FIBER TO BUILDING (CONTRACTOR SHALL COORDINATE WITH ASTATE)

18" HDPE STORM PIPE & 8" PRIVATE WATER MAIN CROSSING.
18" HDPE INV: 273.26
(REF. GRADING & DRAINAGE PLAN)

BUILDING MOUNTED FDC PER JONESBORO CITY FIRE DEPARTMENT STANDARDS (REF. MEP)

8" DIP FIRE LINE (REF. MEP FOR CONTINUATION)

2" IRRIGATION WATER SERVICE (REF. MEP FOR CONTINUATION)

4" DOMESTIC WATER SERVICE (REF. MEP FOR CONTINUATION)

8" 45 DEGREE BEND & THRUST BLOCK

8" POST INDICATOR VALVE (PIV)

PRIVATE FIRE HYDRANT ASSEMBLY PER JONESBORO CWL STANDARD DETAILS

8" X 8" TEE W/ 8" GATE VALVES (N & S) W/ 8" X 6" REDUCER AFTER NORTH 8" GATE VALVE THENCE 90 BEND FOR HYDRANT ASSEMBLY

8" DIP (CLASS 350) PRIVATE WATER MAIN EXTENSION FOR PHASE 3 BUILDING

ANCHOR COLLAR, END PLUG, AND 2" BLOW OFF

8" X 8" TEE FOR FIRE SERVICE

20'-0"

20' WIDE UTILITY EASEMENT TO BE RECORDED BY OTHERS (CONTINUES TO LONGHORN DRIVE)

SSMH #2
RIM: 274.00
INVERT SE: 268.53
INVERT W: 268.43
DEPTH: 5'-6 7/8"

QUAZITE BOX AND DATA/POWER CONDUIT FOR POLE MOUNTED CAMERAS, TYP. (REF. MEP)

POLE MOUNTED CAMERAS, TYP. (REF. MEP)

PANO CAMERA MOUNTED ON POLE (REF. MEP)

EMERGENCY TOWER W/ 3 CAMERAS (REF. MEP)

3" PROPOSED GAS SERVICE LINE TO BUILDING (REF. MEP)

GAS SERVICE ENTRANCE TO BUILDING (REF. MEP FOR CONTINUATION)

TWO PANO CAMERAS & NEMA BOX MOUNTED ON POLE (REF. MEP)

PANO CAMERA ON POLE & NEMA BOX MOUNTED ON GROUND BEHIND POLE (REF. MEP)

CONTRACTOR TO LOCATE EXSITING 4" FIBER CONDUIT & CONNECT USING REUSED QUAZITE BOX. COORDINATE WITH ASTATE (REF. MEP)

LINE TO BUILDING (REF. MEP)

PETTING ZOO

METAL FENCE

CONCRETE

GATE

DIRT PILE

GRAVEL PILE

GRAVEL SURFACE

SEE NOTE 11 THIS SHEET

SEE NOTE 11 ON SH. 1 OF 2

SEE NOTE 12 ON SH. 1 OF 2

INV=277.30
12" RCP

GRATE INLET
TOP=279.69
18" HDPE INV=277.36 (W)
18" HDPE INV=277.35 (E)

UGE
INV=285
8" STEEL I
12" RC
INV=28
8" STEEL
OVERHEA

INV=276.79
18" HDPE

18" HDPE

12" WOOD RETAINING WALL

OVERHEAD DOOR

SINGLE DOOR

ELECTRIC METER

FFE=280.42

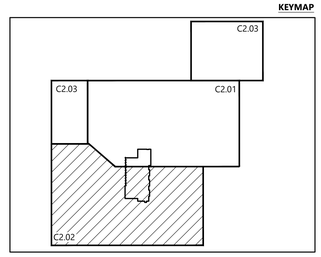
CULTIVATION LINE

CULTIVATION FIELD

14" TREE
12" TREE
18" TREE
20" TREE
16" TREE
SPIGOT
ELECTRIC FENCE

NOTE:
ALL WATER & SEWER MAIN CONSTRUCTION SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT JONESBORO CITY WATER AND LIGHT STANDARD SPECIFICATIONS & DETAILS FOR WATER AND SEWER CONSTRUCTION.

KEYMAP



1 UTILITY PLAN

SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'

FENNELL PURIFOY ARCHITECTS + DAKE | WELLS architecture

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19108
ROBERT HAZEN HOLLEY
5.18.26

Ecological Design Group, Inc.
CERTIFICATE OF AUTHORIZATION
No. 2511
ARKANSAS

REVISIONS:

100% CONSTRUCTION DOCUMENTS
05-18-2026

UTILITY PLAN
C2.02

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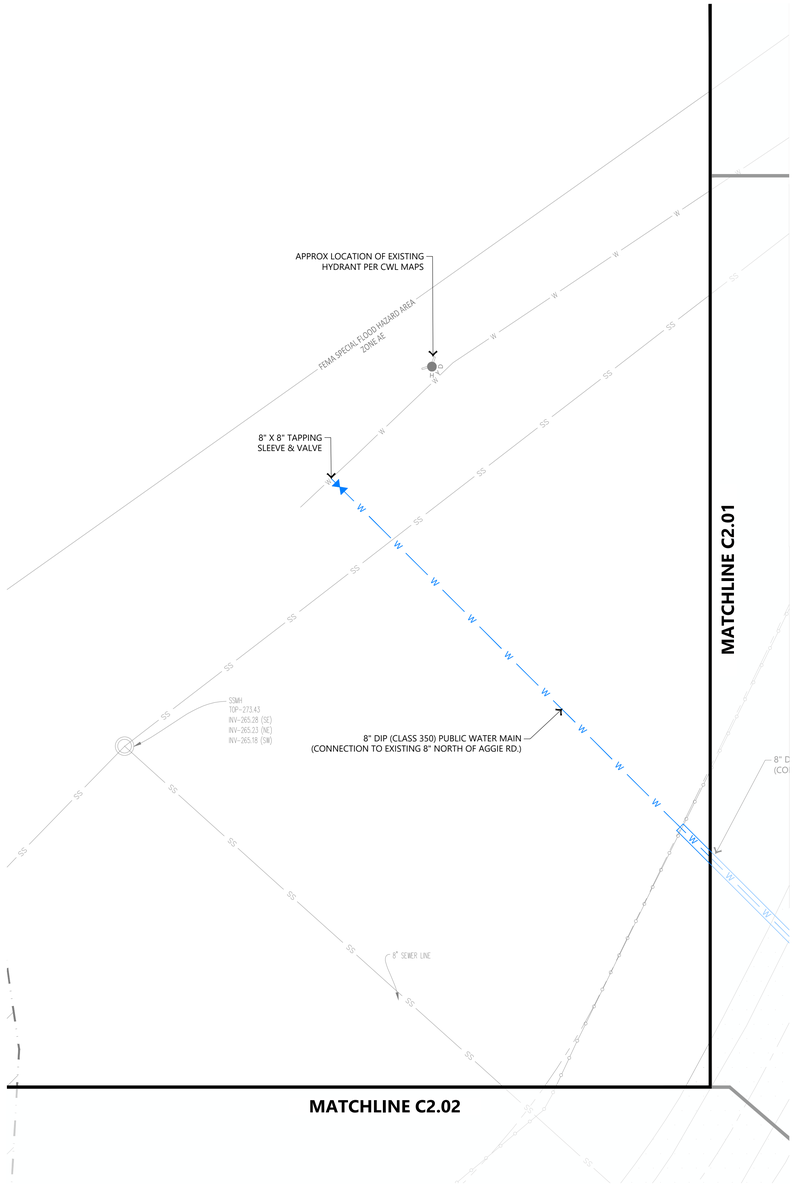
ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER

JONESBORO, ARKANSAS

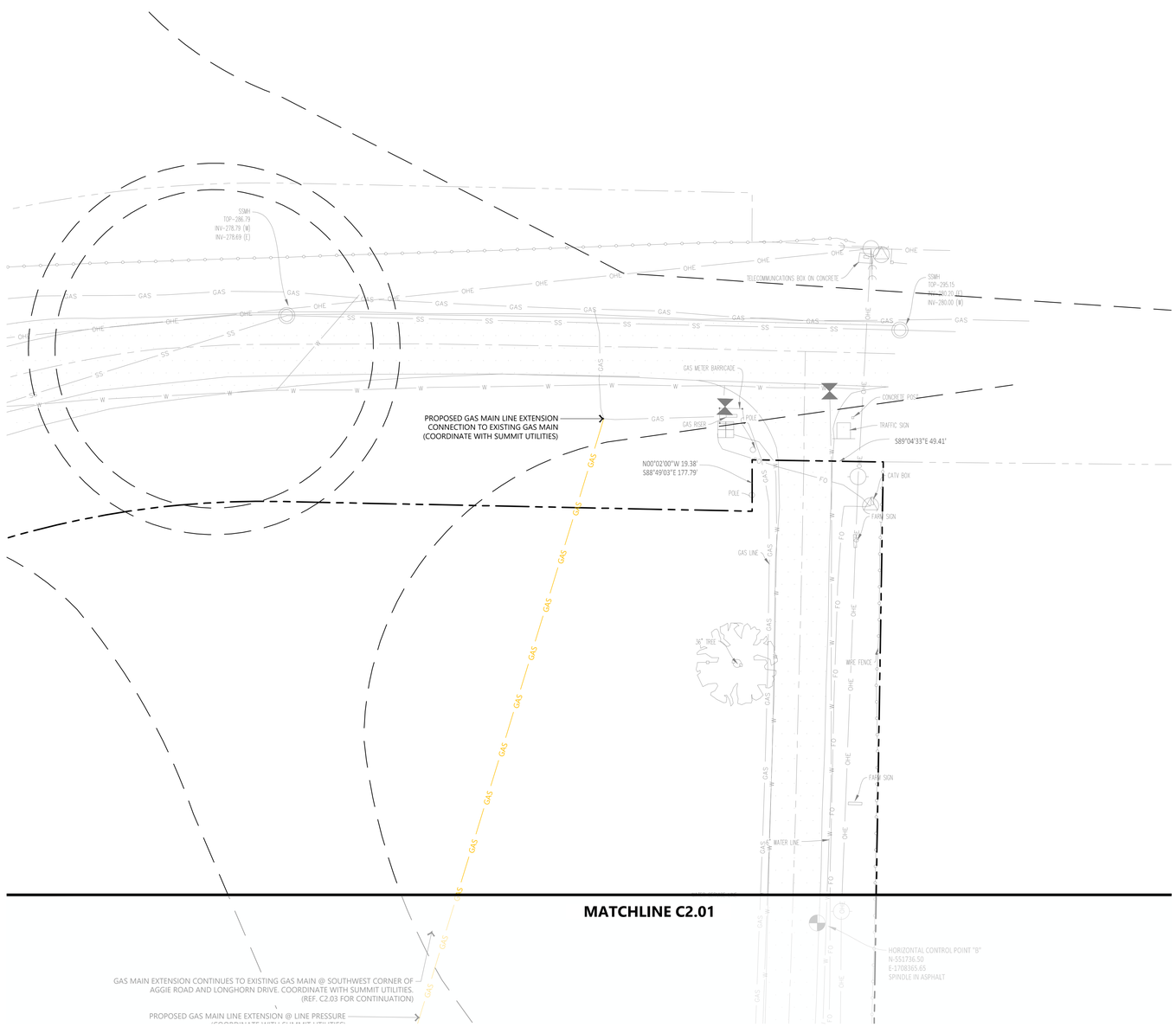


1 UTILITY PLAN - WATER MAIN EXTENSION

SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'



2 UTILITY PLAN - GAS MAIN EXTENSION

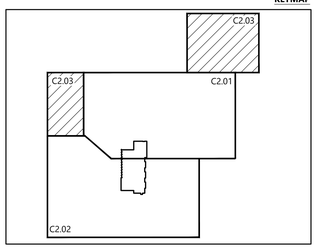
SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'

NOTE:
ALL WATER & SEWER MAIN CONSTRUCTION SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT JONESBORO CITY WATER AND LIGHT STANDARD SPECIFICATIONS & DETAILS FOR WATER AND SEWER CONSTRUCTION.

KEYMAP



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FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19108
PROJECT ENGINEER
HAZEN VEST
5.18.26

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UTILITY PLAN
C2.03

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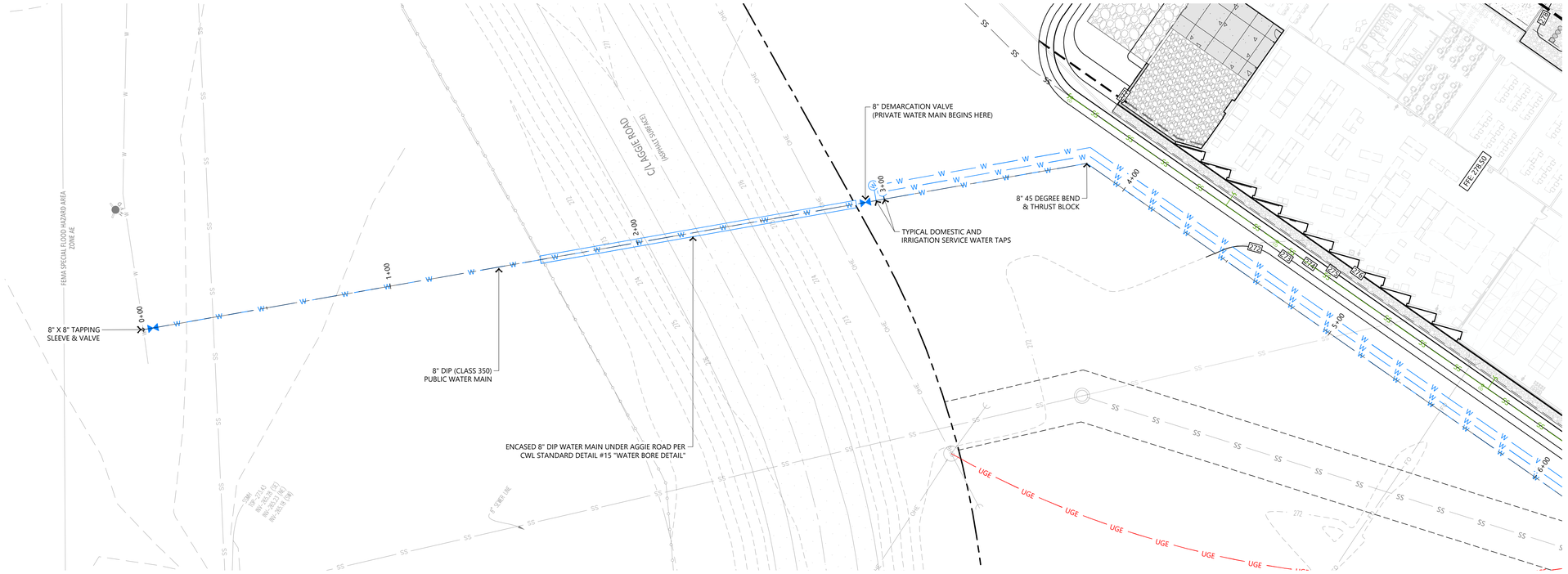
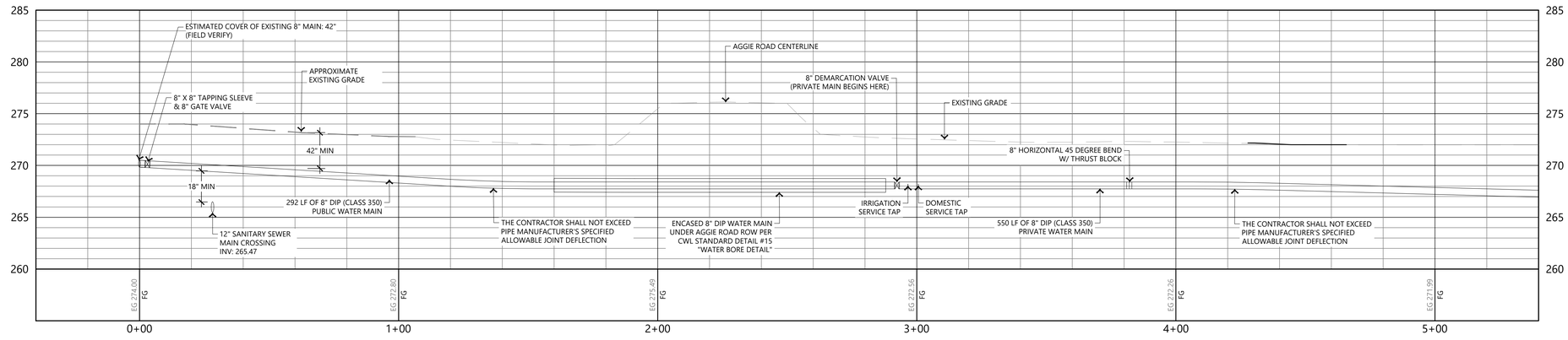


1 PRIVATE WATER MAIN PLAN
STA 0+00 THROUGH STA 5+00

SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'



2 PRIVATE WATER MAIN PROFILE
STA 0+00 THROUGH STA 5+00

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 5'-0"

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19108
ROBERT HAZEN HEISEY
5.18.26

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WATER MAIN PLAN & PROFILE

C2.10

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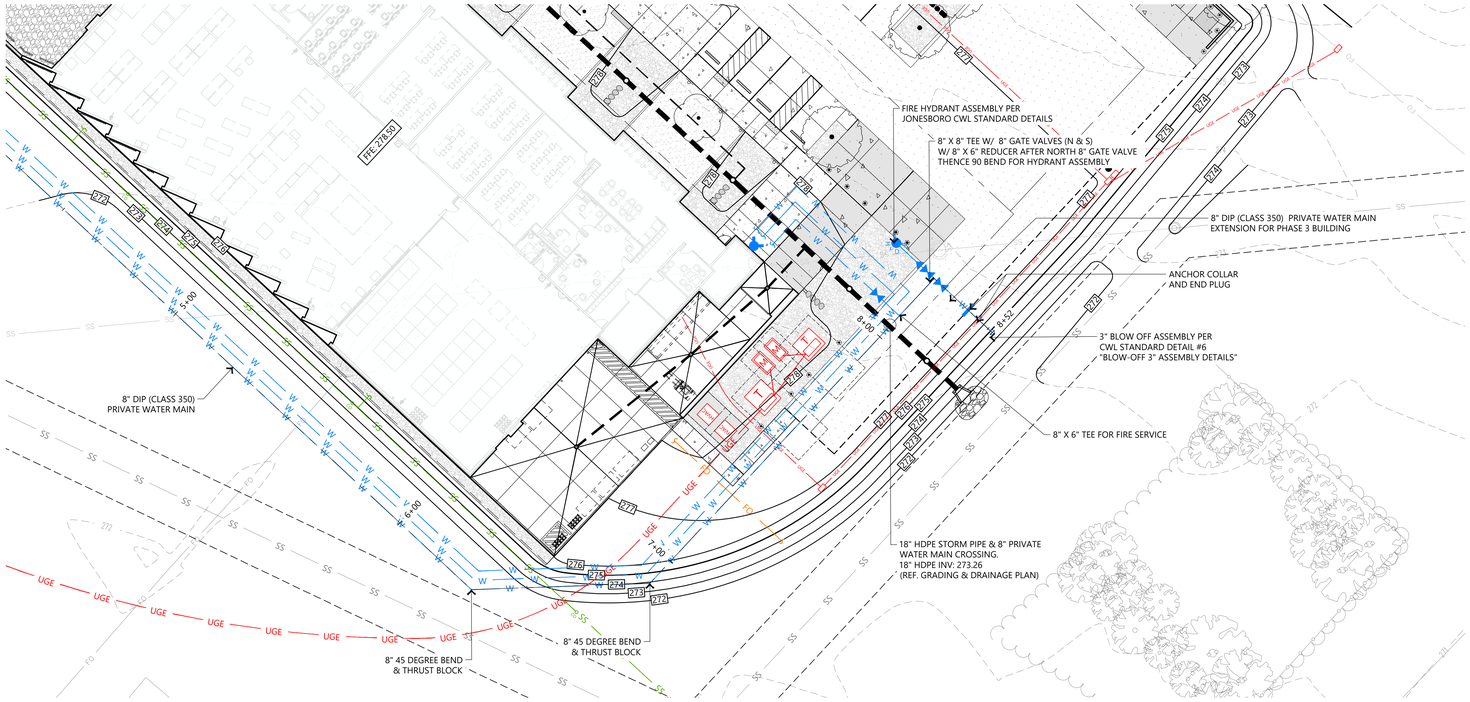
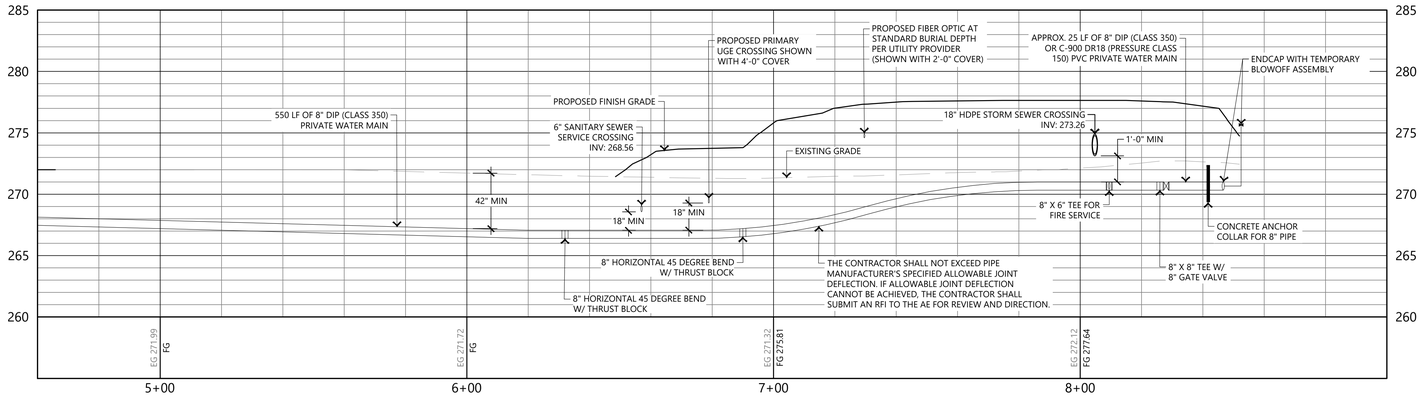


1 PRIVATE WATER MAIN PLAN
STA 5+00 THROUGH STA 8+48

SCALE: 1" = 20'-0"

NORTH

40' 80'
0' 20'



2 PRIVATE WATER MAIN PROFILE
STA 5+00 THROUGH STA 8+48

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 5'-0"

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WATER MAIN PLAN & PROFILE

C2.11

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19108
ROBERT HAZEN HEISLEY
5.18.26

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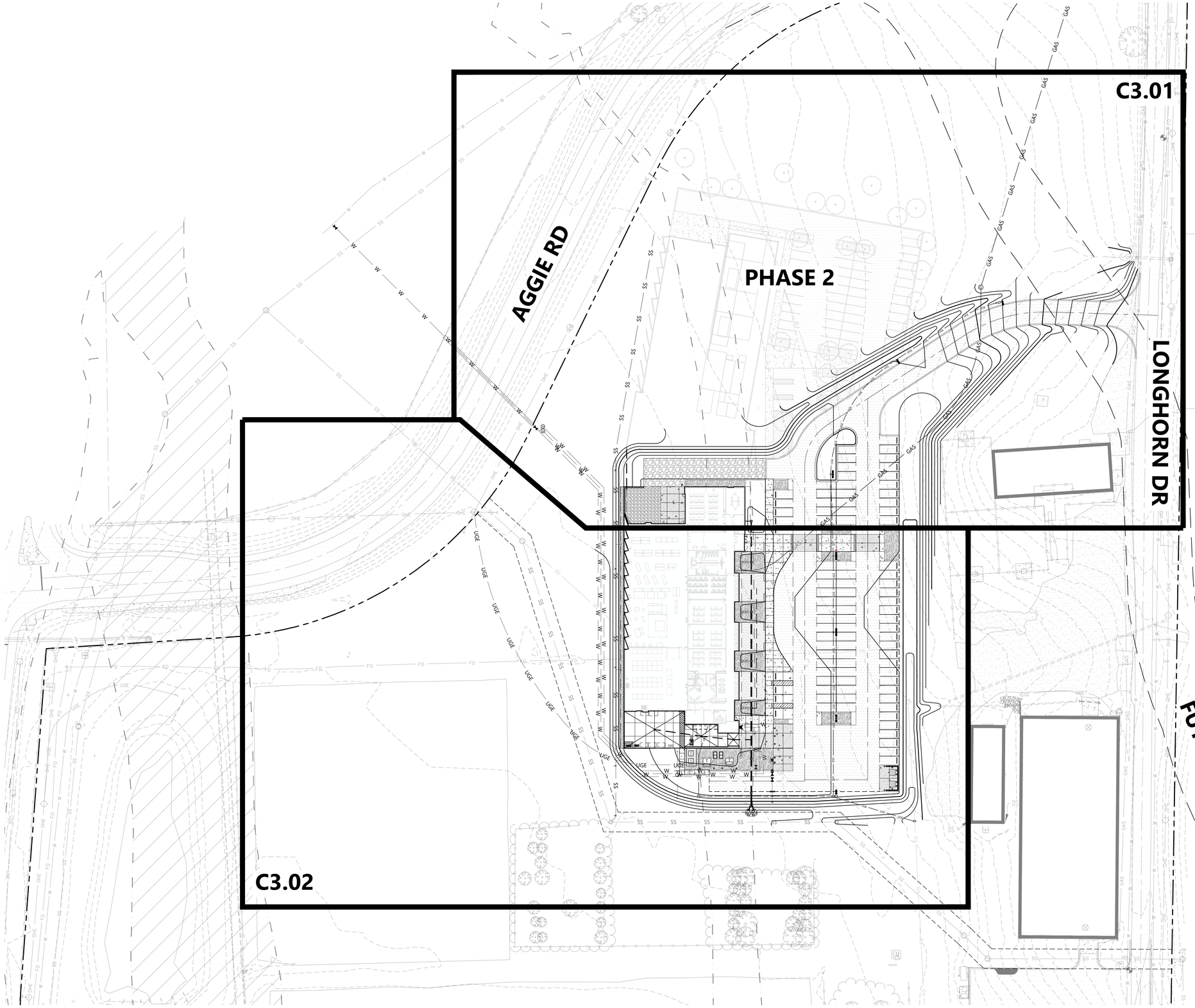

1 OVERALL GRADING & DRAINAGE PLAN

SCALE: 1" = 40'-0"

NORTH

0' 40' 80' 160'

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 19108 ROBERT HAZEN JEFFEY 5.18.26

CERTIFICATE OF AUTHORIZATION Ecological Design Group, Inc. No. 2511 ARKANSAS

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JONESBORO, ARKANSAS

REVISIONS:

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OVERALL GRADING & DRAINAGE PLAN

C3.00

1/8/2026 9:34:01 AM

ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER

JONESBORO, ARKANSAS

C/L AGGIE ROAD (ASPHALT SURFACE)

C/L LONGHORN DRIVE (ASPHALT SURFACE)

FEMA SPECIAL FLOOD HAZARD AREA SHADED 500 YR ZONE X

3' WIDE DITCH FLOWLINE 274.64

3' WIDE DITCH FLOWLINE 274.07

5'-0" SHOULDER PRIOR TO 3:1 SLOPE

MATCH EG FLUSH

MATCH EG FLUSH 290.40

MATCH EG FLUSH

289.56

289.80

290.04

276.34

276.58

275.54

275.64

275.88

276.00

276.82

276.26

276.12

276.36

277.20

TC 277.39
BC 276.89

276.50

TC 277.50
BC 277.00

277.56

TC 277.16
BC 276.66

276.00

TC 277.16
BC 276.66

TC 277.46
BC 276.96

TC 277.70
BC 277.20

TC 277.76
BC 277.26

277.58

TC 277.72
BC 277.22

TC 277.46
BC 276.96

277.22

276.62

276.26

277.69

278.00

278.25

278.23

278.48

277.65

277.11

276.61

276.15

275.88

275.45

276.41

TC 277.75
BC 277.36

4" HDPE
INV: 275.00
TC 277.88
BC 277.38

ASPHALT SLOPES DOWN ALONG TURNDOWN TO REVEAL 6" TALL CURB (REF. SPOT GRADES)

2 C5.01 PERMEABLE GRAVEL W/ UNDERDRAIN

8" HDPE INV: 273.00

43 LF OF 8" HDPE PIPE @ 4.65% SLOPE

SLEEVE THROUGH WALL/FOUNDATION

3 LF OF VERTICAL 8" HDPE W/ 90 DEGREE BENDS AT TOP AND BOTTOM. BOTTOM 90 DEGREE BEND INV: 275.00±

35 LF OF 8" PERF. HDPE PIPE W/ SOIL SOCK LAID FLAT @ 277.00

4 C5.01 12" NYLOPLAST CATCH BASIN (DOME GRATE)
RIM: 277.75
4" INV IN: 275.22
12" INV OUT: 274.55

FFE: 278.50

6 C5.01 ROOF DRAIN CONNECTION DETAIL

40 LF OF 12" HDPE @ 0.50% SLOPE

4 C5.01 18" NYLOPLAST CATCH BASIN (DOME GRATE)
RIM: 277.00
12" INV IN: 274.35
12" INV OUT: 274.35

50 LF OF 12" HDPE @ 0.50% SLOPE

MATCHLINE C3.02

PETTING ZOO

KEYMAP

C3.01

C3.02

1 GRADING & DRAINAGE PLAN

SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'

FENNELL PURIFOY ARCHITECTS + DAKE | WELLS architecture

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 19108 ROBERT HAZEN HEISLEY 5.18.26

CERTIFICATE OF AUTHORIZATION Ecological Design Group, Inc. No. 2511 ARKANSAS

REVISIONS:

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05-18-2026

GRADING & DRAINAGE PLAN

C3.01

1/8/2026 3:34:07 AM

ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER

JONESBORO, ARKANSAS

MATCHLINE C3.01

- 2 C5.01 PERMEABLE GRAVEL W/ UNDERDRAIN
- 8" HDPE INV: 273.00
- 43 LF OF 8" HDPE PIPE @ 4.65% SLOPE
- SLEEVE THROUGH WALL/FOUNDATION
- 3 LF OF VERTICAL 8" HDPE W/ 90 DEGREE BENDS AT TOP AND BOTTOM. BOTTOM 90 DEGREE BEND INV: 275.00±
- 35 LF OF 8" PERF. HDPE PIPE W/ SOIL SOCK LAID FLAT @ 277.00
- 4 C5.01 12" NYLOPLAST CATCH BASIN (DOME GRATE) RIM: 277.75 4" INV IN: 275.22 12" INV OUT: 274.55
- FFE: 278.50
- 6 C5.01 ROOF DRAIN CONNECTION DETAIL
- 40 LF OF 12" HDPE @ 0.50% SLOPE
- 4 C5.01 18" NYLOPLAST CATCH BASIN (DOME GRATE) RIM: 277.00 12" INV IN: 274.35 12" INV OUT: 274.35
- 50 LF OF 12" HDPE @ 0.50% SLOPE
- 4" HDPE INV: 275.00 TC 277.88 BC 277.38
- ASPHALT SLOPES DOWN ALONG TURNDOWN TO REVEAL 6" TALL CURB (REF. SPOT GRADES)
- 4 C5.01 18" NYLOPLAST CATCH BASIN (DOME GRATE) RIM: 277.00 12" INV IN: 274.10 18" INV OUT: 274.10
- FFE: 278.50
- 126 LF OF 4" HDPE PIPE FOR TREE UNDERDRAINS LAID AT @ 0.50% SLOPE (REF. LANDSCAPE PLANS & DETAILS FOR TREE UNDERDRAINS)
- 50 LF OF 18" HDPE @ 0.50% SLOPE
- ASPHALT SLOPES DOWN ALONG TURNDOWN TO REVEAL 6" TALL CURB (REF. SPOT GRADES)
- 4 C5.01 12" NYLOPLAST CATCH BASIN (STANDARD GRATE) RIM: 278.15 8" INV OUT: 274.83
- 4 C5.01 18" NYLOPLAST CATCH BASIN (DOME GRATE) RIM: 277.00 INV IN/OUT: 273.85
- 50 LF OF 18" HDPE @ 0.50% SLOPE
- 4 C5.01 12" NYLOPLAST CATCH BASIN (PED. GRATE) RIM: 278.30 8" INV IN/OUT: 274.36
- 4 C5.01 12" NYLOPLAST CATCH BASIN (PED. GRATE) RIM: 278.40 8" INV IN: 274.04 8" INV OUT: 274.04
- 47 LF OF 8" HDPE PIPE @ 1.00% SLOPE
- 32 LF OF 8" HDPE PIPE @ 1.00% SLOPE
- 18" x 8" TEE INV: 273.44
- 50 LF OF 18" HDPE @ 0.50% SLOPE
- 4 C5.01 18" NYLOPLAST CATCH BASIN (DOME GRATE) RIM: 277.00 4" INV IN: 274.37 18" INV IN/OUT: 273.60
- 18 LF OF 8" HDPE PIPE @ 1.00% SLOPE
- 4 C5.01 18" NYLOPLAST CATCH BASIN (DOME GRATE) RIM: 277.00 INV IN/OUT: 273.35
- WATER/STORM CROSSING (REF. UTILITY PLANS & WATER MAIN PLAN & PROFILE)
- 34 LF OF 18" HDPE @ 0.50% SLOPE
- 4 C5.01 18" NYLOPLAST JUNCTION BOX (SOLID COVER) RIM: 277.60 INV IN: 273.18 INV OUT: 272.13
- 13 LF OF 18" HDPE @ 1.00% SLOPE
- PRECAST CONCRETE HEADWALL FOR 18" PIPE INV: 272.00
- CONVERT ROCK CHECK DAM FROM EROSION CONTROL PLAN INTO RIP-RAP APRON AT OUTFALL AFTER VEGETATION ESTABLISHES

C/L AGGIE ROAD (ASPHALT SURFACE)

L=380.20
R=360.00
CH=362.78
CH BRG=N56°09'48"E

CULTIVATION LINE

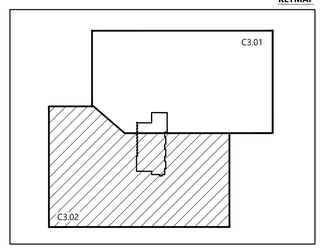
CULTIVATION FIELD

PETTING ZOO

SEWER LINE

ELECTRIC FENCE

KEYMAP



1 GRADING & DRAINAGE PLAN

SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'

FENNELL PURIFOY ARCHITECTS + DAKE | WELLS architecture

CERTIFICATE OF AUTHORIZATION Ecological Design Group, Inc. No. 2511 ARKANSAS

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 19108 ROBERT HAZEN KELLY 5.18.26

REVISIONS:

100% CONSTRUCTION DOCUMENTS
05-18-2026

GRADING & DRAINAGE PLAN

C3.02

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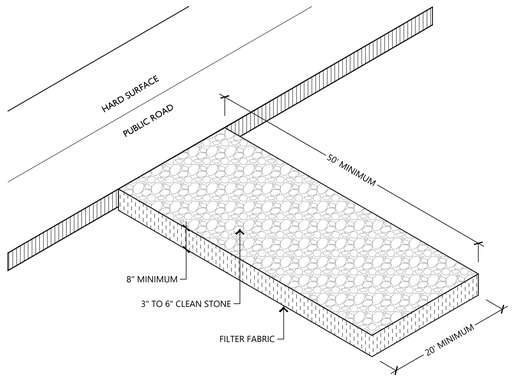
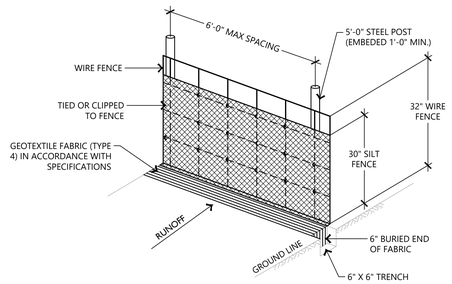


CONSTRUCTION EXIT NOTES

1. REPLACE CONTAMINATED STONE AS REQUIRED TO PREVENT TRACKING OF SEDIMENT OR MUD ON PUBLIC STREETS.
2. CLEAN STREETS DAILY WITH BROOM AND SHOVEL. THE USE OF WATER IS PROHIBITED.
3. ALL VEHICLES MUST USE CONSTRUCTION EXIT.

1 CONSTRUCTION ENTRANCE

SCALE: N.T.S.

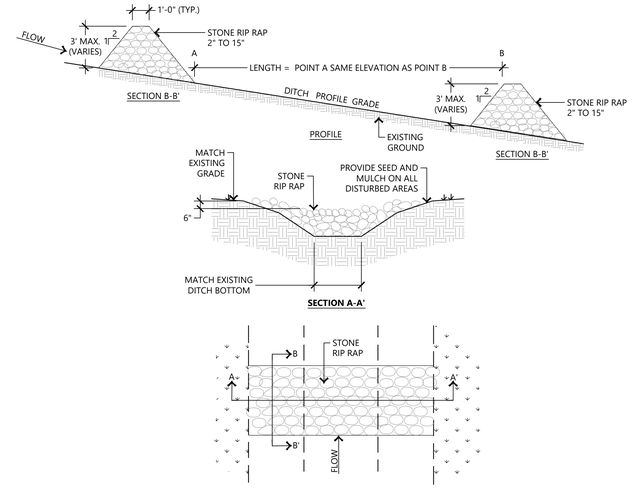


SILT FENCE NOTES:

1. POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. HERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

2 WIRE-REINFORCED SILT FENCE

SCALE: N.T.S.



INSTALLATION:

1. EXCAVATE KEY-WAY (IF REQUIRED)
2. A GEOTEXTILE FABRIC SHALL BE INSTALLED OVER THE SOIL SURFACE WHERE THE ROCK IS TO BE PLACED (IF REQUIRED)
3. ROCK DIAMETERS SHOULD BE 2" TO 15" IN DIAMETER
4. ROCK DITCH CHECKS SHOULD NOT EXCEED 3 FEET
5. STONES SHOULD BE PLACED UP THE CHANNEL BANKS TO PREVENT WATER FROM CUTTING AROUND THE DITCH CHECK
6. INSTALLATION SHALL BE PLACED EITHER BY HAND OR MECHANICALLY AND NOT JUST DUMPED TO ACHIEVE COMPLETE COVERAGE OF THE DITCH AND ENSURE THE CENTER OF THE DAMN IS LOWER THAN THE EDGES
7. MAXIMUM SPACING BETWEEN MULTIPLE DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM CHECK IS THE SAME AS THE TOP OF THE DOWNSTREAM CHECK

INSPECTION:

1. INSPECT ROCK DITCH CHECKS EVERY (7) CALENDAR DAYS AND WITH-IN 24 HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2" PRECIPITATION OR AS SPECIFIED IN THE SWPPP.
2. SEDIMENT SHOULD BE REMOVED WHEN IT REACHES 1/2 THE ORIGINAL CHECK HEIGHT
3. IN THE CASE OF GRASS-LINED DITCHES OR SWALES, ROCK DITCH CHECKS SHOULD BE REMOVED WHEN THE GRASS HAS MATURED SUFFICIENTLY TO PROTECT THE DITCH OR SWALE, IF THE SLOPE IS 4% OR LESS.
4. THE AREA BENEATH THE ROCK DITCH CHECKS SHOULD BE SEEDED AND MULCHED IMMEDIATELY AFTER THE CHECK DAM REMOVAL

3 ROCK CHECK DAM

SCALE: N.T.S.

1/8/2026 8:34:07 AM

ASU CREST EARLY SITE PACKAGE

JONESBORO, ARKANSAS

REVISIONS:

EARLY SITE PACKAGE
03-02-2026

EROSION CONTROL DETAILS

C3.10

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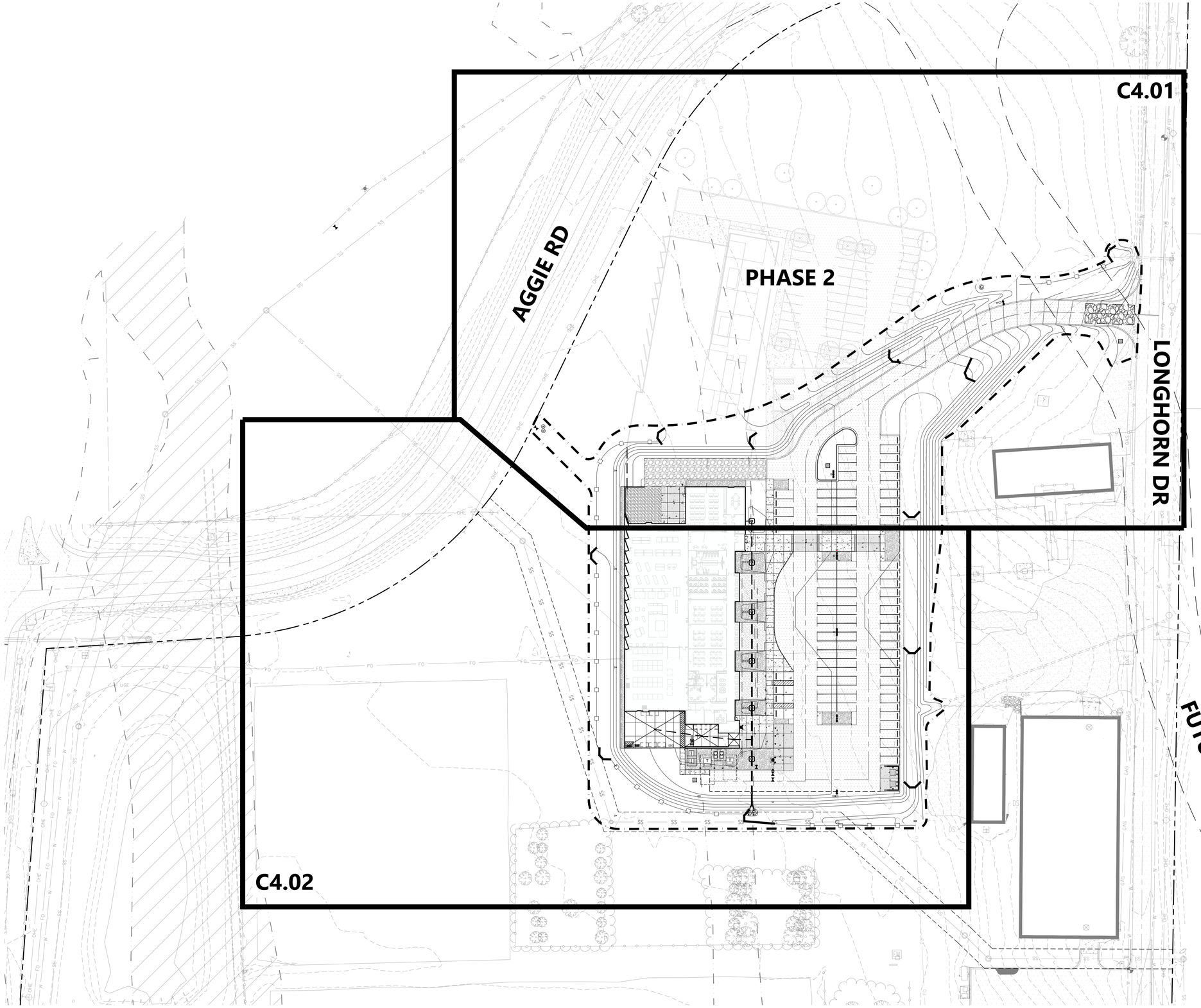
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19108
ROBERT HAZEN WELLS
03.02.26



1 OVERALL EROSION CONTROL PLAN

SCALE: 1" = 40'-0"

NORTH

0' 40' 80' 160'

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

CERTIFICATE OF AUTHORIZATION Ecological Design Group, Inc. No. 2511 ARKANSAS

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 19108 ROBERT HAZEN JEFFEY 5.18.26

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JONESBORO, ARKANSAS

REVISIONS:

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05-18-2026

OVERALL EROSION CONTROL PLAN

C4.00

1/8/2026 5:34:07 AM

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JONESBORO, ARKANSAS

PROPERTY/ROW LINE

FEMA SPECIAL FLOOD HAZARD AREA SHADED 500 YR ZONE X

C/L AGGIE ROAD (ASPHALT SURFACE)

C/L LONGHORN DRIVE (ASPHALT SURFACE)

LIMITS OF DISTURBANCE (TYP.)

3 C4.10 WIRE REINFORCED SILT FENCE (TYP.)

4 C4.10 ROCK CHECK DAM (TYP.)

2 C4.10 INLET PROTECTION (TYP)

FFE: 278.50

CONSTRUCTION ENTRANCE 1 C4.10

CONCRETE WASHOUT 5 C4.10

CONCRETE WASHOUT 5 C4.10

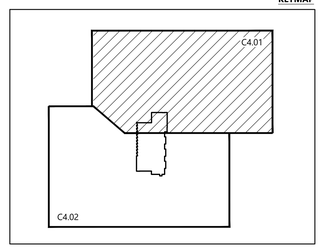
PETTING ZOO

GRAVEL SURFACE

CONCRETE

MATCHLINE C4.02

KEYMAP



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1 EROSION CONTROL PLAN

SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 19108 ROBERT HAZEN HEWEY 5.18.26

REVISIONS:

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05-18-2026

EROSION CONTROL PLAN

C4.01

1/8/2026 9:34:07 AM

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JONESBORO, ARKANSAS

LIMITS OF DISTURBANCE (TYP.)

3 C4.10 WIRE REINFORCED SILT FENCE (TYP.)

2 C4.10 INLET PROTECTION (TYP)

FFE: 278.50

CONCRETE WASHOUT 5 C4.10

MATCHLINE C4.01

C/L AGGIE ROAD
[ASPHALT SURFACE]

PROPERTY/ROW LINE

L=380.20
R=360.00
CH=362.78
CH BRG=N56°09'48"E

SSMH
TOP=272.19
INV=266.86 (SE)
INV=266.84 (NW)

4 C4.10 ROCK CHECK DAM (TYP.)

CULTIVATION LINE

CULTIVATION FIELD

PETTING ZOO

DIRT PILE

GRAVEL PILE

GRAVEL SURFACE

METAL FENCE

CONCRETE

GATE

SEE NOTE 11 THIS SHEET

SEE NOTE 11 ON SH. 1 OF 2

SEE NOTE 12 ON SH. 1 OF 2

INV=277.30
12" RCP

GRATE INLET
TOP=279.48
18" HDPE INV=277.36 (W)
18" HDPE INV=277.35 (E)

12" WOOD RETAINING WALL

OVERHEAD DOOR

SINGLE DOOR

ELECTRIC METER

FFE=280.42

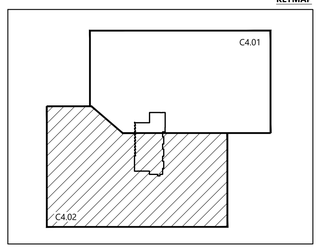
4" SEWER LINE

SPIGOT

ELECTRIC FENCE

14" TREE
12" TREE
18" TREE
16" TREE
20" TREE
24" TREE

KEYMAP



1 EROSION CONTROL PLAN

SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'

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No. 2511
ARKANSAS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19108
PROBERT HAZEN HAZEN
5.18.26

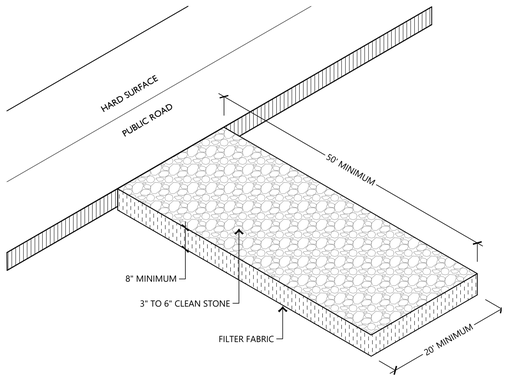
REVISIONS:

100% CONSTRUCTION DOCUMENTS
05-18-2026

EROSION CONTROL PLAN

C4.02

1/8/2026 9:34:07 AM

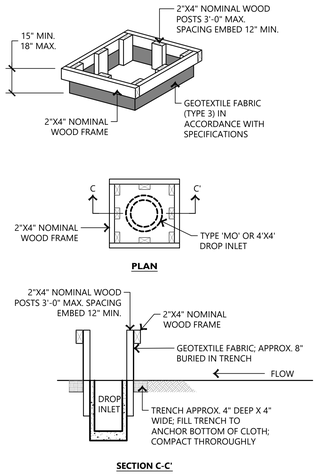


CONSTRUCTION EXIT NOTES

1. REPLACE CONTAMINATED STONE AS REQUIRED TO PREVENT TRACKING OF SEDIMENT OR MUD ON PUBLIC STREETS.
2. CLEAN STREETS DAILY WITH BROOM AND SHOVEL. THE USE OF WATER IS PROHIBITED.
3. ALL VEHICLES MUST USE CONSTRUCTION EXIT.

1 CONSTRUCTION ENTRANCE

SCALE: N.T.S.



NOTES:

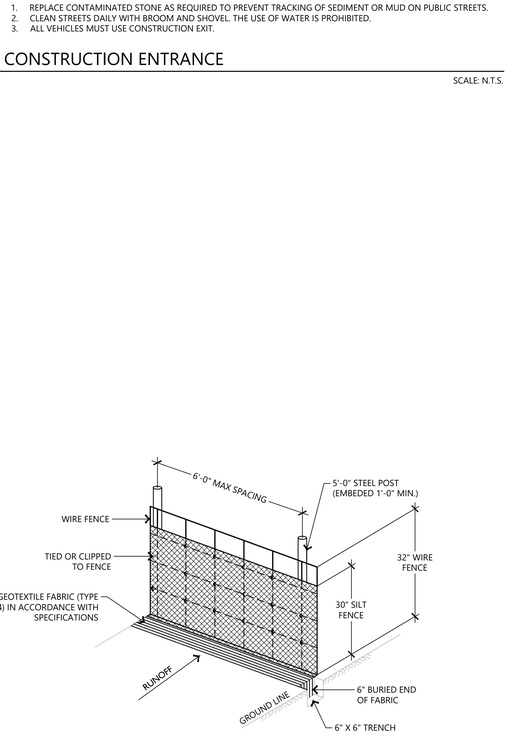
1. ATTACH THE WOVEN WIRE FENCE AND THE GEOTEXTILE TO EACH POST (SPACED EVERY 30") WITH THREE WIRE TIES OR OTHER FASTENERS, ALL SPACED WITHIN THE TOP 8" OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1" VERTICALLY APART.
2. WHEN TWO SECTIONS OF SILT FENCE FABRIC ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED ACROSS TWO POSTS.
3. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE SWPPP. DEPTH OF ACCUMULATED SEDIMENTS MAY NOT EXCEED ONE-THIRD THE HEIGHT OF THE FABRIC.
4. ALL SILT FENCE INLET PROTECTIONS SHALL INCLUDE WIRE SUPPORT.

MAINTENANCE NOTES:

5. INLET PROTECTION DEVICES MUST BE INSPECTED FOR SEDIMENT ACCUMULATION WITHIN THE CATCH BASIN (IF USING INSERT-TYPE DEVICE) OR UPGRADIENT OF THE INLET.
7. ANY SEDIMENT ACCUMULATED IN OR ADJACENT TO A STORM DRAIN INLET MUST BE REMOVED AS SOON AS PRACTICABLE BUT NOT LATER THAN 3 DAYS AFTER DISCOVERY.
8. INLET PROTECTION DEVICES SHALL BE INSPECTED FOR UNINTENDED BYPASS OR IMPROPER FLOW-RATES THAT MAY CAUSE DOWNSTREAM FLOODING.
9. CONTACT THE PUBLIC WORKS INSPECTOR AND/OR ENGINEER FOR ALTERNATE INLET PROTECTION IF THE DESIGNED PROTECTION MAY IMPACT DOWNSTREAM BMPS, ADJACENT SLOPES, ETC., DUE TO PONDING ISSUES. ENSURE THAT NO UNDERMINING OF INLET PROTECTION DEVICES HAS OCCURRED.
10. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.

2 DROP INLET PROTECTION

SCALE: N.T.S.

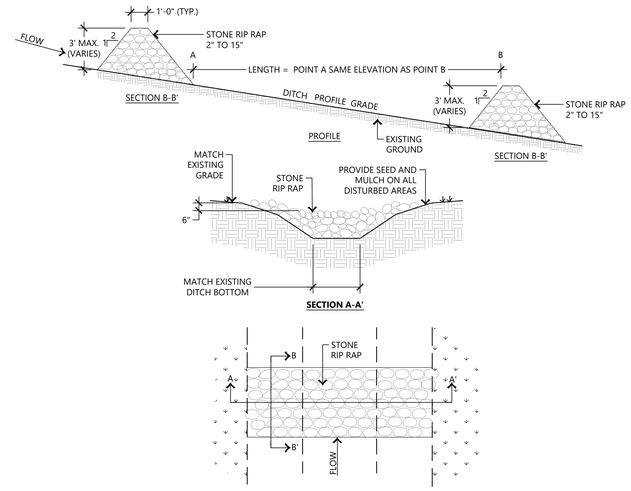


SILT FENCE NOTES:

1. POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. HERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

3 WIRE-REINFORCED SILT FENCE

SCALE: N.T.S.



INSTALLATION:

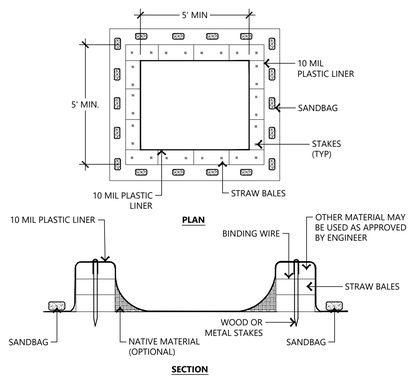
1. EXCAVATE KEY-WAY (IF REQUIRED)
2. A GEOTEXTILE FABRIC SHALL BE INSTALLED OVER THE SOIL SURFACE WHERE THE ROCK IS TO BE PLACED (IF REQUIRED)
3. ROCK DIAMETERS SHOULD BE 2" TO 15" IN DIAMETER
4. ROCK DITCH CHECKS SHOULD NOT EXCEED 3 FEET
5. STONES SHOULD BE PLACED UP THE CHANNEL BANKS TO PREVENT WATER FROM CUTTING AROUND THE DITCH CHECK
6. INSTALLATION SHALL BE PLACED EITHER BY HAND OR MECHANICALLY AND NOT JUST DUMPED TO ACHIEVE COMPLETE COVERAGE OF THE DITCH AND ENSURE THE CENTER OF THE DAMN IS LOWER THAN THE EDGES
7. MAXIMUM SPACING BETWEEN MULTIPLE DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM CHECK IS THE SAME AS THE TOP OF THE DOWNSTREAM CHECK

INSPECTION:

1. INSPECT ROCK DITCH CHECKS EVERY (7) CALENDAR DAYS AND WITH-IN 24 HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2" PRECIPITATION OR AS SPECIFIED IN THE SWPPP.
2. SEDIMENT SHOULD BE REMOVED WHEN IT REACHES 1/2 THE ORIGINAL CHECK HEIGHT
3. IN THE CASE OF GRASS-LINED DITCHES OR SWALES, ROCK DITCH CHECKS SHOULD BE REMOVED WHEN THE GRASS HAS MATURED SUFFICIENTLY TO PROTECT THE DITCH OR SWALE, IF THE SLOPE IS 4% OR LESS.
4. THE AREA BENEATH THE ROCK DITCH CHECKS SHOULD BE SEEDED AND MULCHED IMMEDIATELY AFTER THE CHECK DAM REMOVAL

4 ROCK CHECK DAM

SCALE: N.T.S.



WASHOUT NOTES

1. NO WASHING OUT OF CONCRETE TRUCKS OR WASHING OF SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS IS ALLOWED.
2. EXCESS CONCRETE IS NOT ALLOWED TO BE DUMPED ON-SITE, EXCEPT IN DESIGNATED TEMPORARY CONCRETE WASHOUT PIT AREAS.
3. ON-SITE TEMPORARY CONCRETE WASHOUT AREAS WILL BE LOCATED AT LEAST 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES AS DETERMINED IN THE FIELD.
4. TEMPORARY CONCRETE WASHOUT FACILITIES WILL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
5. WASHOUT FACILITIES WILL BE CLEANED OUT OR REPLACED ONCE THE WASHOUT IS 75% FULL.
6. PLASTIC LINING MATERIAL WILL BE MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND WILL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS.
7. WHEN WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR WORK, THE HARDENED CONCRETE WILL BE REMOVED AND DISPOSED OF OFFSITE. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES WILL BE REMOVED FROM THE SITE AND DISPOSED OF.

5 CONCRETE WASHOUT

SCALE: N.T.S.

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Ecological Design Group, Inc. No. 2511 ARKANSAS

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 19108 ROBERT HAZEN WEST 5.18.26

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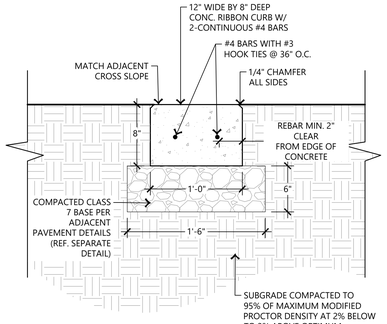
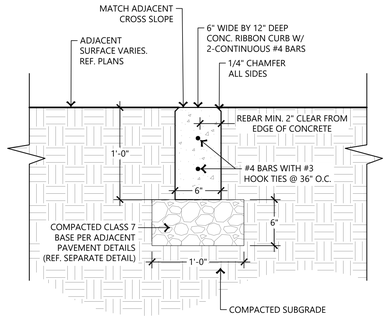


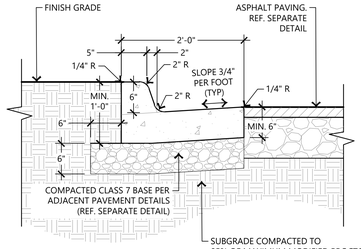
1 1' CONCRETE RIBBON CURB

SCALE: N.T.S.



2 6" CONCRETE RIBBON CURB

SCALE: N.T.S.

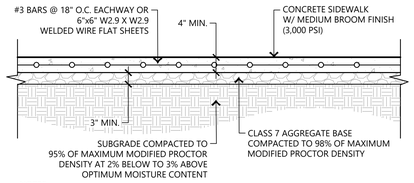


NOTE:

1. GUTTER SHALL BE SLOPED TO MATCH CROSS SLOPE OF THE PAVEMENT WHICH COULD BE SLOPED TOWARDS CURB OR AWAY (REF. PLANS)

3 STANDARD CURB & GUTTER

SCALE: N.T.S.

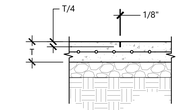


NOTES:

1. PROVIDE JOINTS PER PLANS.
2. REFER TO PLANS FOR SIDEWALK WIDTH AND LAYOUT.

4 TYPICAL CONCRETE SIDEWALK

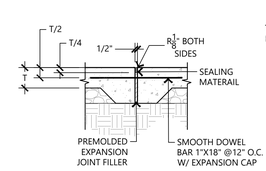
SCALE: N.T.S.



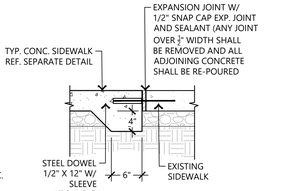
SAWED CONTRACTION JOINT

NOTES:

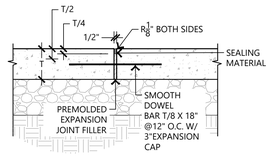
1. PROVIDE TRANSVERSE SAWED CONTRACTION JOINTS AT INTERVALS NOT EXCEEDING 10'-0" O.C. OR AS SHOWN ON PLANS.
2. PROVIDE CENTERLINE CONTRACTION JOINTS IN SIDEWALKS AS SHOWN ON PLANS.
3. PROVIDE EXPANSION JOINTS AT INTERVALS NOT EXCEEDING 40'-0" O.C. OR AS SHOWN ON PLANS.
4. PROVIDE EXPANSION JOINTS ADJACENT TO STRUCTURES OR DRIVES. REF. PLANS.



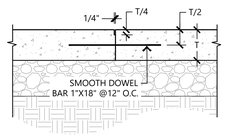
EXPANSION JOINT



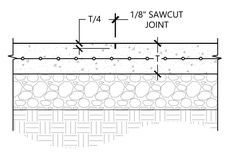
CONNECTION TO EXISTING SIDEWALK



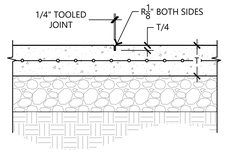
EXPANSION JOINT DETAIL



CONSTRUCTION JOINT DETAIL



SAWED CONTRACTION JOINT



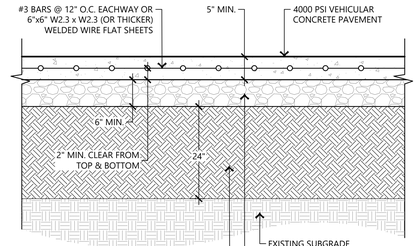
TOOLED CONTRACTION JOINT

NOTES:

1. PROVIDE TRANSVERSE CONTRACTION JOINTS AT INTERVALS NOT EXCEEDING 15'-0" O.C.E.W. OR AS SHOWN ON PLANS.
2. PROVIDE EXPANSION JOINTS AT INTERVALS NOT EXCEEDING 60'-0" O.C.E.W. OR AS SHOWN ON PLANS.
3. PROVIDE EXPANSION JOINTS ADJACENT TO STRUCTURES OR DRIVES. REF. PLANS.

5 CONCRETE PAVEMENT JOINT DETAILS

SCALE: N.T.S.

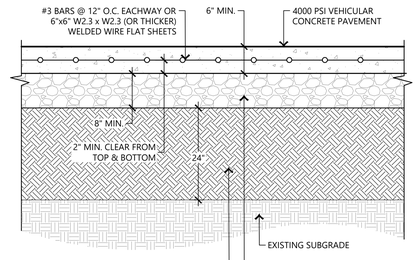


NOTES:

1. SUBGRADE SHALL BE INSPECTED BY GEOTECHNICAL ENGINEER PRIOR TO PLACING SUBGRADE AND PAVEMENT.
2. REFER SEPARATE DETAIL FOR JOINT DETAILS. REFER TO PLANS FOR JOINT LAYOUT.
3. REFER TO PLANS FOR CONCRETE EDGE TREATMENT.

6 CONCRETE PAVEMENT - STANDARD DUTY

SCALE: N.T.S.

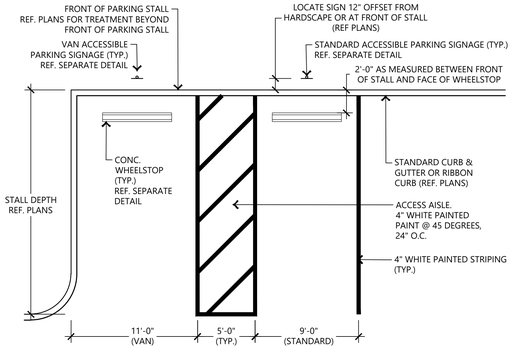


NOTES:

1. SUBGRADE SHALL BE INSPECTED BY GEOTECHNICAL ENGINEER PRIOR TO PLACING SUBGRADE AND PAVEMENT.
2. REFER SEPARATE DETAIL FOR JOINT DETAILS. REFER TO PLANS FOR JOINT LAYOUT.
3. REFER TO PLANS FOR CONCRETE EDGE TREATMENT.

7 CONCRETE PAVEMENT - HEAVY DUTY

SCALE: N.T.S.

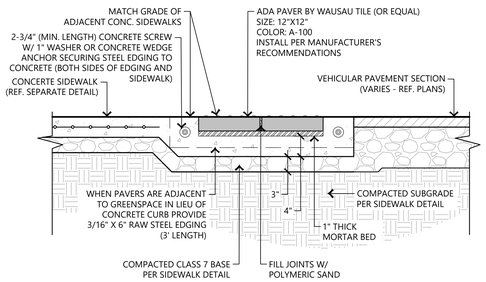


NOTES:

1. ADA SPACES ARE UNIQUE TO EACH LAYOUT, REFER TO SITE PLAN FOR EXACT CONFIGURATION AND RELATION TO SIDEWALK, CURBS, LANDSCAPE AREAS, AND RAMPS. CONFIRM ALL DIMENSION ON SITE PLAN.
2. SLOPE MAY NOT EXCEED 2% IN ANY DIRECTION WITHIN THE ENTIRE ACCESSIBLE AREA (STALLS AND AISLE)
3. REFER TO U.S. ACCESS BOARD FOR ALL ADA REQUIREMENTS. CHAPTER 5 INCLUDES PARKING SPACE REQUIREMENTS.
4. ALL MEASUREMENTS ARE MADE TO CENTERLINE OF STRIPE OR FACE OF CURB (FLUSH OR RAISED).

11 ADA PARKING SPACE

SCALE: N.T.S.



NOTES:

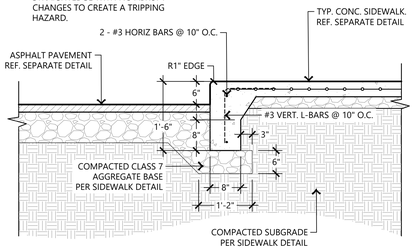
1. THE DETECTABLE WARNING DEVICE SHALL BE LOCATED SO THAT THE NEAREST EDGE OF THE DEVICE IS LOCATED AT THE BACK OF CURB.
2. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
3. DETECTABLE WARNING DEVICE SHALL BE 24" IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE. (MIN. 4')
4. INSTALL ADA PAVERS PER MANUFACTURER'S RECOMMENDATIONS.

12 DETECTABLE WARNING DEVICE

SCALE: N.T.S.

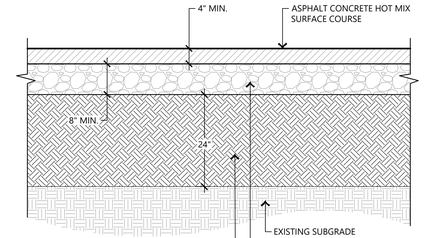
NOTES:

1. TOLERANCE OF FINISH IS $\frac{1}{2}$" IN 10 FEET WHEN MEASURED WITH A 10" STRAIGHTEDGE WITH NO ABRUPT CHANGES TO CREATE A TRIPPING HAZARD.



8 TURNDOWN SIDEWALK

SCALE: N.T.S.

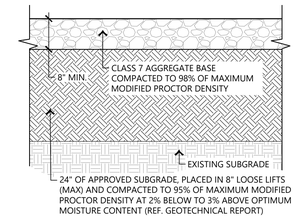


NOTES:

1. SUBGRADE SHALL BE INSPECTED BY GEOTECHNICAL ENGINEER PRIOR TO PLACING SUBGRADE AND PAVEMENT.
2. REFER TO PLANS FOR ASPHALT EDGE TREATMENT.

9 ASPHALT PAVEMENT - HEAVY DUTY

SCALE: N.T.S.

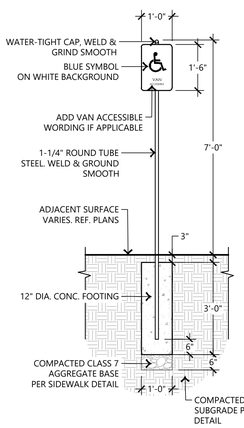


10 GRAVEL DRIVE

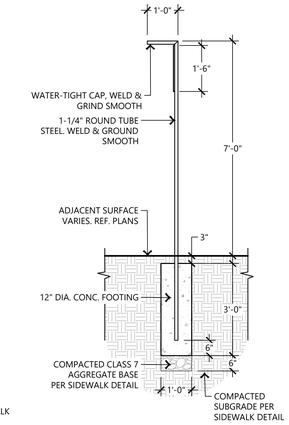
SCALE: N.T.S.

NOTES:

1. FIELD LOCATION TO BE APPROVED PRIOR TO INSTALLATION. SIGN SHALL BE CENTERED ON PARKING STALL.
2. ADA SIGN TO BE PER STATE STANDARDS
3. ADD PENALTY GREEN 1/2" LETTERING IF REQUIRED BY STATE OR LOCAL LAW.



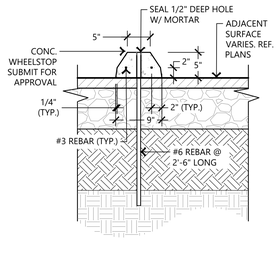
FRONT ELEVATION



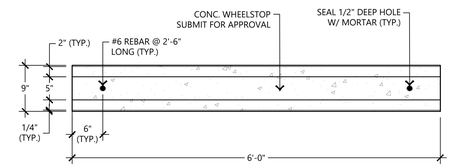
SIDE ELEVATION

13 ADA SIGNAGE

SCALE: N.T.S.



SECTION



PLAN

14 CONCRETE WHEEL STOP

SCALE: N.T.S.

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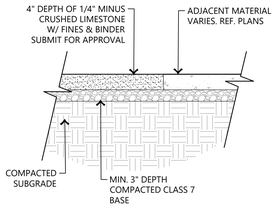
05-18-2026

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19108
PROJECT ENGINEER
HAZEN HEATH
5.18.26

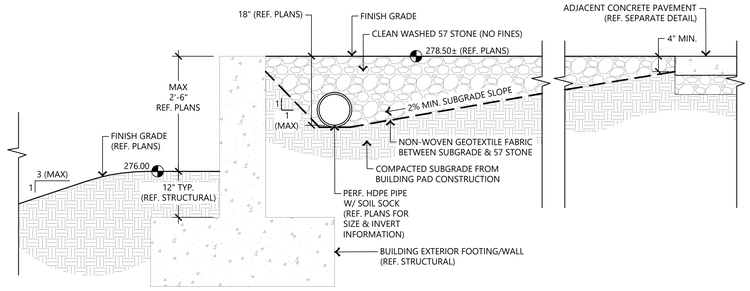
SITE DETAILS C5.00

1/8/2026 9:34:07 AM



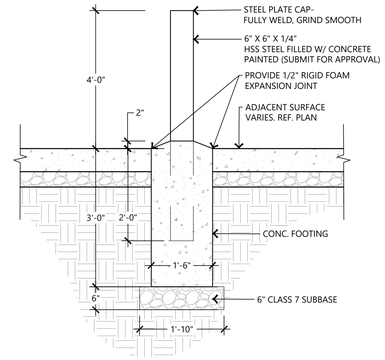
1 CRUSHED STONE

SCALE: N.T.S.



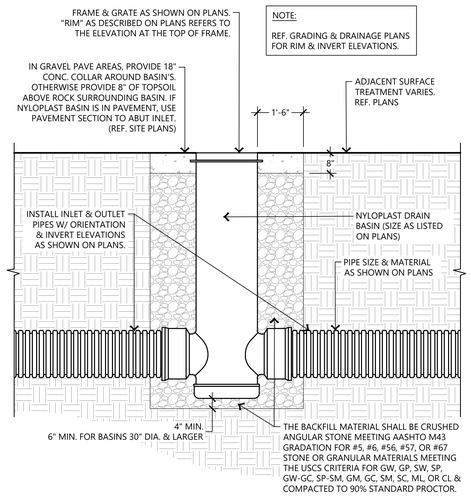
2 PERMEABLE GRAVEL W/ UNDERDRAIN

SCALE: N.T.S.



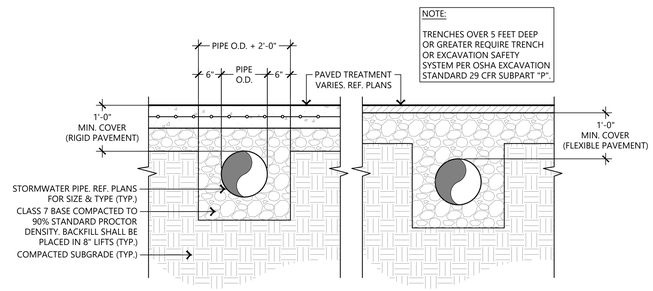
3 STEEL BOLLARD

SCALE: N.T.S.



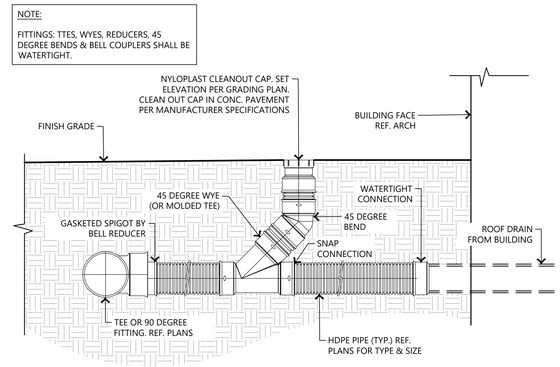
4 TYPICAL NYLOPLAST CATCH BASIN

SCALE: N.T.S.



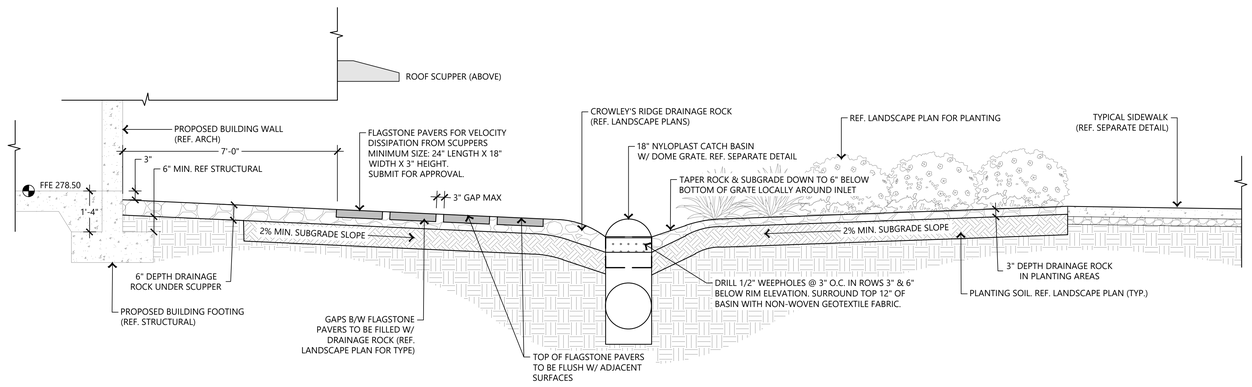
5 TYPICAL STORMWATER BEDDING DETAILS

SCALE: N.T.S.



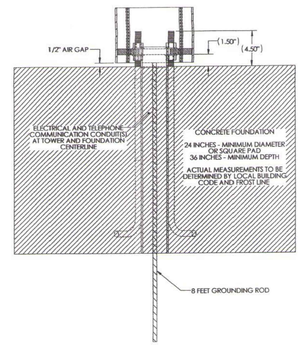
6 ROOF DRAIN CONNECTION DETAIL

SCALE: N.T.S.



7 ROOF GUTTER OUTLET GRAVEL DRAINAGE SECTION A-A'

SCALE: N.T.S.



NOTE: EMERGENCY TOWER SHALL BE THE ASTATE STANDARD MODEL E-PHONE (RED VALCOM P/N VE9811-FV). CONTRACTOR SHALL INSTALL PER MANUFACTURER'S SPECIFICATIONS AND THE ARKANSAS STATE UNIVERSITY INFORMATION AND TECHNOLOGY SERVICES (ASU-ITS) COMPUTER NETWORK SPECIFICATIONS (REVISION 10, 2024 0315). SUBMIT FOR APPROVAL. REFER TO MEP FOR ELECTRICAL.

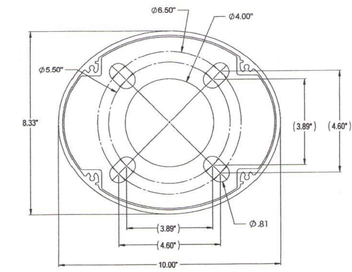


Figure 1. Installation must comply with all national, state, and local construction and electrical codes.

8 EMERGENCY TOWER

SCALE: N.T.S.

CERTIFICATE OF AUTHORIZATION
Ecological Design Group, Inc.
No. 2511
ARKANSAS

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19108
ROBERT HAZEN WELLS
5.18.26

REVISIONS:

100% CONSTRUCTION DOCUMENTS
05-18-2026

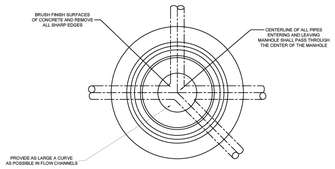
SITE DETAILS
C5.01

1/8/2026 9:34:07 AM

1 MANHOLE DETAILS
N.T.S.

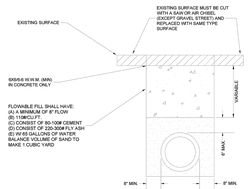
NOTES:
(1) MANHOLE BASES TO BE 4000 PSI, 28-DAY STRENGTH, LIMESTONE MIX CONCRETE ON UNDISTURBED SUB-GRADE OR ON COMPACTED SELECT FILL MATERIAL AS AUTHORIZED.
(2) MANHOLE SIDEWALL MATERIAL TO BE CONCRETE IN ACCORDANCE WITH PROPOSAL FORM REQUIREMENTS:
  (a) 4' I.D. FOR SEWER SIZES 6" THRU 24"
  (b) 5' I.D. FOR SEWER SIZES 24" THRU 30"
  (c) 6' I.D. FOR SEWER SIZES 36" THRU 42"
(3) SET MANHOLE TOPS AS FOLLOWS:
  (a) IN STREETS, ROADS, HIGHWAYS, AND OTHER PAVED AREAS. FLUSH WITH FINISHED PAVING GRADE.
  (b) UNDEVELOPED AREAS, SUCH AS FIELDS, WOODS, ETC.. 12" ABOVE GROUND.
  (c) OTHER AREAS: 1" ABOVE GROUND.
(4) MANHOLE FRAMES SHALL HAVE A MIN. OPENING OF 22" DIA.
(5) ALL DOGHOUSE MANHOLES TO BE INSTALLED WITH A-LOK WEDGE STYLE WATER STOP KITS.

STANDARD MANHOLE
CONSTRUCT FLOW CHANNEL FOR ALL PIPES ENTERING MANHOLES, INCLUDING SERVICES. MAINTAIN A CONSTANT GRADE THROUGHOUT EACH INVERT.



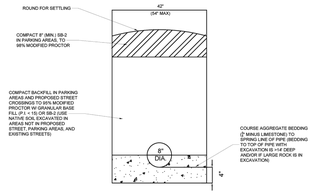
2 EXISTING STREET LOCATIONS
N.T.S.

NOTES:
(1) CONTRACTOR SHALL OBTAIN A STREET CROSSING PERMIT FROM THE CITY OF JONESBORO PRIOR TO CUTTING STREET.
(2) EXCAVATED MATERIAL SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
(3) THIS REPAIR DETAIL IS REQUIRED FOR ALL EXCAVATION WITHIN 5' OF PAVED EDGE AND ALL TRANSVERSE EXCAVATIONS TO EXTEND 3' BEYOND PAVED EDGE.
(4) LEAVE FLOWABLE FILL:
  2" BELOW ASPHALT SURFACE
  6" BELOW CONCRETE SURFACE
  6" BELOW GRAVEL SURFACE



3 NON-EXISTING STREET LOCATIONS SDR-26 PVC TRENCH DETAIL
N.T.S.

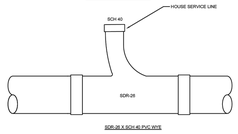
NOTES:
(1) COARSE AGGREGATE SHALL BE MECHANICALLY TAMPED WHEN USED.
(2) PIPE IN TRENCH SHALL BE PLACED ON NO LESS THAN 4" OF ¾" MINUS LIMESTONE. ALL OVER EXCAVATION SHALL BE COMPACTED BACK TO GRADE W/ BEDDING MATERIAL.
(3) PVC PIPE SHALL BE SDR-26 AND INSTALLED IN ACCORDANCE WITH UNI-BELL PVC PIPE ASSOCIATION'S RECOMMENDATIONS FOR CONSTRUCTION.



4 SINGLE WYE
N.T.S.

NOTES:
(1) ALL SERVICE LINES UNDER PAVEMENT SHALL BE PVC SCH 40 PIPE W/ PVC SCH 40 COUPLINGS

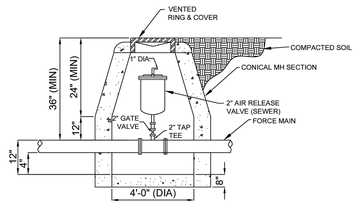
TEE WYE ONLY



SDR-26 X SCH 40 PVC WYE

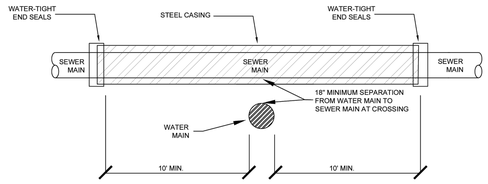
5 AIR/VACUUM RELEASE VALVE DETAIL
N.T.S.

NOTES:
(1) TOP & WALL CONSTRUCTION TO BE SAME AS MANHOLE
(2) DRILL 12-5/8" HOLES IN COVER: 6 ON 8" CIRCLE & 6 ON 16" CIRCLE

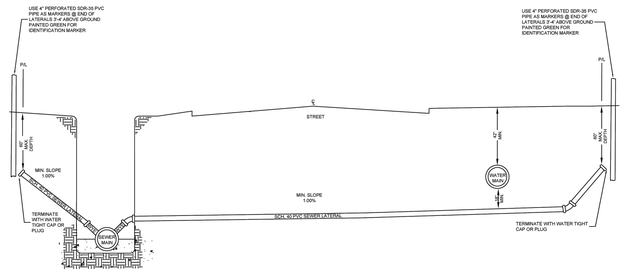


6 ENCASEMENT FOR SEWER MAINS AT WATER CROSSINGS
N.T.S.

NOTES:
(1) WHEN 18" VERTICAL SEPARATION CANNOT BE MAINTAINED, JOINTS SHALL BE LOCATED SUCH THAT THEY ARE EQUAL DISTANCE BEFORE AND AFTER CROSSING.
(2) 0.25", OR 0.50" AS REQUIRED, THICKNESS STEEL ENCASEMENT PIPE SHALL EXTEND 10' MINIMUM EACH SIDE OF WATER MAIN
(3) FLEXIBLE WATER TIGHT END SEALS WITH STAINLESS STEEL BAND, CASCADE MODEL #CCES OR EQUAL
(4) REFER TO PLANS FOR GRADE SEPARATION
(5) CASING SPACERS TO BE INSTALLED, AS REQUIRED
(6) WHERE A WATER LINE MUST UNAVOIDABLY PASS BENEATH THE SEWER LINE, AT LEAST 18 INCHES OF VERTICAL SEPARATION MUST BE MAINTAINED BETWEEN THE OUTSIDE OF THE TWO PIPES IN ADDITION TO THE PRECEDING ENCASEMENT REQUIREMENT.

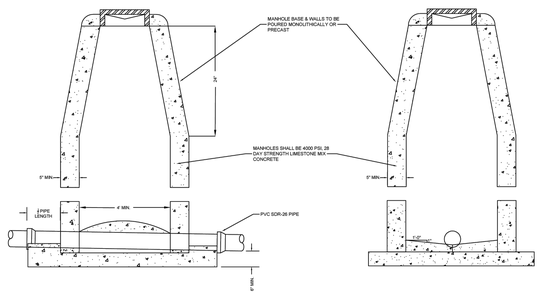


7 SEWER LATERAL STUBOUT PERMITS REQUIRED BEFORE INSTALLATION
(USE SAME CONFIGURATION FOR MANHOLES STUBOUTS)
N.T.S.



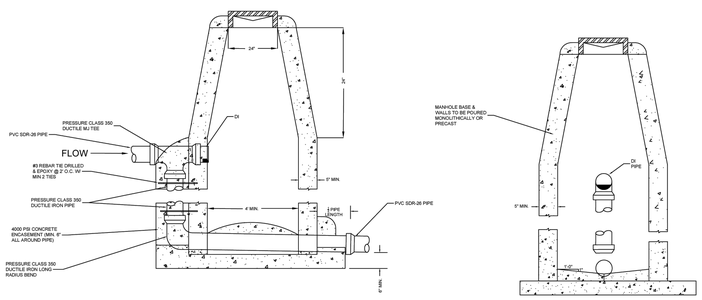
8 STANDARD MANHOLE
N.T.S.

NOTES:
(1) MANHOLES SHALL BE PRECAST W/ NEOPRENE GASKETS AS APPROVED BY ENGINEER AND/OR UTILITY COMPANY



SIDE VIEW FRONT VIEW

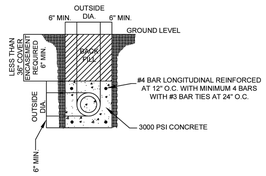
9 DROP MANHOLE
N.T.S.



SIDE ELEVATION SECTION A-A

10 CONCRETE ENCASEMENT FOR DITCH CROSSINGS
N.T.S.

NOTE:
(1) ENCASEMENT PIPE MUST BE PRESSURE CLASS 350 DUCTILE IRON AND WRAP DUCTILE IRON PIPE WITH 8 MIL PLASTIC



1 JONESBORO CWL SEWER DETAILS

SCALE: NTS

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 19108 ROBERT HAZEN HEISEY 5.18.26

CERTIFICATE OF AUTHORIZATION Ecological Design Group, Inc. No. 2511 ARKANSAS

ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER
JONESBORO, ARKANSAS

REVISIONS:

100% CONSTRUCTION DOCUMENTS
05-18-2026

SITE DETAILS
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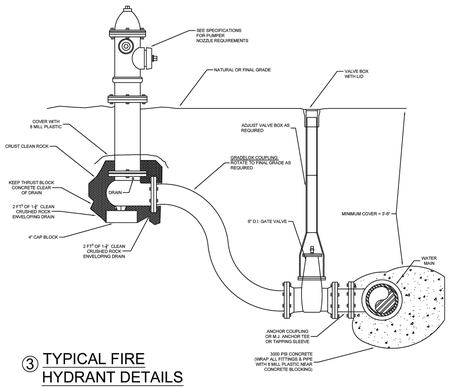
① FIRE HYDRANT DETAIL WITH GRADELOK COUPLING

N.T.S.

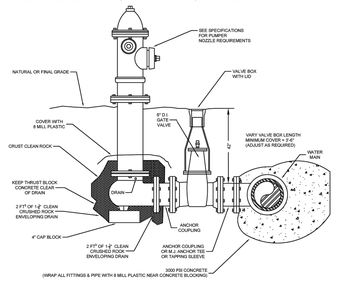
NOTES:
(1) MUST BE MUELLER CO. TYPE ONLY.
(2) PLACE FIRE HYDRANT AT LOCATIONS SHOW ON PLANS OR AS DIRECTED BY ENGINEER.
(3) FIRE HYDRANT TO BE INSTALLED IN TRUE PLUMB POSITION
- SEE PROPOSAL FOR REQUIRED HEIGHT



② FIRE HYDRANT DETAIL WITH ANCHOR COUPLING

N.T.S.

NOTES:
(1) MUST BE MUELLER CO. TYPE ONLY.
(2) PLACE FIRE HYDRANT AT LOCATIONS SHOW ON PLANS OR AS DIRECTED BY ENGINEER.
(3) FIRE HYDRANT TO BE INSTALLED IN TRUE PLUMB POSITION
- SEE PROPOSAL FOR REQUIRED HEIGHT
(4) PROVIDE TWO (2) MECHANICAL JOINT ANCHORING COUPLING VALVE BOXES AND TEES WITHIN CITY LIMITS.
(5) CWL WILL PROVIDE FIRE HYDRANTS, ANCHOR COUPLINGS, AND VALVES.

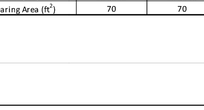


③ TYPICAL FIRE HYDRANT DETAILS

N.T.S.

④ TYPICAL FIRE HYDRANT LOCATION DETAILS ALONG HIGHWAY RIGHT-OF-WAY

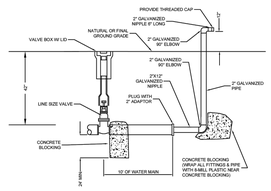
N.T.S.



⑤ BLOW-OFF 2" ASSEMBLY DETAILS

N.T.S.

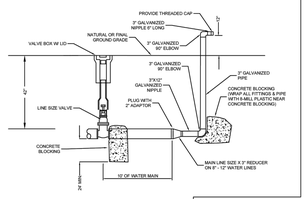
NOTES:
(1) 2" BLOW-OFF ASSEMBLY IS FOR 2" THRU 6" LINES WITH FUTURE EXPANSION.
(2) OTHER BLOW-OFF ASSEMBLIES CAN BE USED AS APPROVED BY LOCAL UTILITY COMPANY.
(3) ALL 2" OR 3" GALVANIZED PIPE AND FITTINGS ARE TO BE SCHEDULE 40.



⑥ BLOW-OFF 3" ASSEMBLY DETAILS

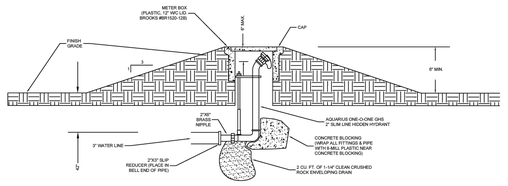
N.T.S.

NOTES:
(1) 3" BLOW-OFF ASSEMBLY IS FOR 6" THRU 12" LINES WITH FUTURE EXPANSION.
(2) OTHER BLOW-OFF ASSEMBLIES CAN BE USED AS APPROVED BY LOCAL UTILITY COMPANY.
(3) ALL 2" OR 3" GALVANIZED PIPE AND FITTINGS ARE TO BE SCHEDULE 40.



⑦ UNDERGROUND WASHOUT ASSEMBLY FOR COVES AND DEAD END LINES WITH NO FUTURE EXTENSION

N.T.S.

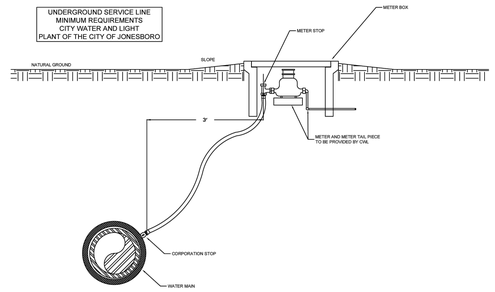


⑧ SERVICE CONNECTION AND METER SETTING

N.T.S.

NOTES:
(1) ONLY 1" SERVICES TO BE USED OUTSIDE CITY LIMITS.
(2) 1" SERVICES TO BE USED WHEN WATER PRESSURE IS BELOW 60 PSI.
(3) 1" SERVICE METER PARTS SPECIFICATIONS:
(A) METER BOX BROOKS #BR1015-12B, PLASTIC 12" W/C LID
(B) METER STOP 1" FORD BALL VALVE #BA-43-232WR CTS
(C) CORPORATION STOP 1" FORD #F1000 CTS
(D) SADDLE FORDSTYLE #S70 + S90
(4) 1" SERVICE METER PARTS SPECIFICATIONS:
(A) METER BOX BROOK #BR1520-12B, PLASTIC W/C LID
(B) METER STOP 1" FORD BALL VALVE #BA-43-444W CTS
(C) CORPORATION STOP FORD #F1000 CTS
(D) COPPER 1" TYPE K
(E) SADDLE FORDSTYLE #S70 + S90

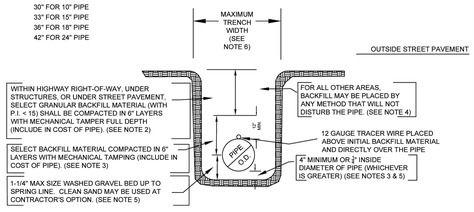
UNDERGROUND SERVICE LINE MINIMUM REQUIREMENTS CITY WATER AND LIGHT PLANT OF THE CITY OF JONESBORO



⑨ TYPICAL WATER MAIN PIPE BEDDING AND BACKFILL DETAIL

N.T.S.

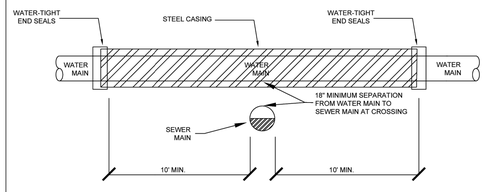
NOTES:
(1) ALL PIPE SHALL BE LAID AT SUFFICIENT DEPTH TO MAINTAIN 42" MINIMUM COVER
(2) REQUIRED (A) WITHIN HIGHWAY RIGHT-OF-WAY, (B) WITHIN RAILROAD RIGHT-OF-WAY, (C) AT STREET PAVEMENT CROSSINGS, AND (D) ABOVE LOCK-JOINT PIPE
(3) REQUIRED FOR FULL LENGTH OF PIPE LINE
(4) IN RURAL AREAS AND/OR OUTSIDE HIGHWAY AND RAILROAD RIGHT-OF-WAY
(5) BEDDING REQUIRED ONLY WHEN SOFT SOILS ARE ENCOUNTERED OR IS DIRECTED BY ENGINEER.
(6) MAX TRENCH WIDTH DEPENDENT ON PIPE DIAMETERS:
18" FOR 04" PIPE
24" FOR 06" PIPE
24" FOR 08" PIPE
30" FOR 10" PIPE
33" FOR 15" PIPE
36" FOR 18" PIPE
42" FOR 24" PIPE



⑩ ENCASEMENT FOR WATER MAINS AT SEWER CROSSINGS

N.T.S.

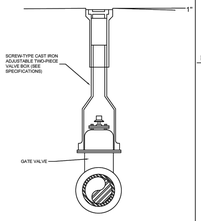
NOTES:
(1) WHEN 18" VERTICAL SEPARATION CANNOT BE MAINTAINED, JOINTS SHALL BE LOCATED SUCH THAT THEY ARE EQUAL DISTANCE BEFORE AND AFTER CROSSING.
(2) 0.25", OR 0.50" AS REQUIRED, THICKNESS STEEL ENCASEMENT PIPE SHALL EXTEND 10' MINIMUM EACH SIDE OF SEWER MAIN
(3) FLEXIBLE WATER TIGHT END SEALS WITH STAINLESS STEEL BAND, CASCADE MODEL #CCES OR EQUAL
(4) REFER TO PLANS FOR GRADE SEPARATION
(5) CASING SPACERS TO BE INSTALLED, AS REQUIRED
(6) WHERE A WATER LINE MUST UNAVOIDABLY PASS BENEATH THE SEWER LINE, AT LEAST 18 INCHES OF SEPARATION MUST BE MAINTAINED BETWEEN THE OUTSIDE OF THE TWO PIPES IN ADDITION TO THE PRECEDING ENCASEMENT REQUIREMENT.



⑪ VALVE BOX DETAIL

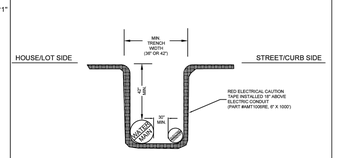
N.T.S.

NOTE:
(1) 3'-6" MINIMUM COVER, VARY VALVE BOX LENGTH TO SUIT SIZE & TYPE OF VALVE & PIPE.



⑫ TYPICAL WATER/ELECTRIC COMBO DETAIL

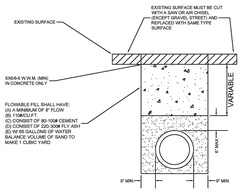
N.T.S.



⑬ EXISTING STREET LOCATIONS

N.T.S.

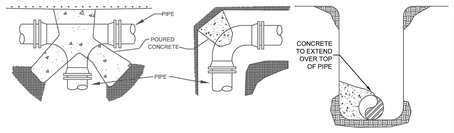
NOTES:
(1) CONTRACTOR SHALL OBTAIN A STREET CROSSING PERMIT FROM THE CITY OF JONESBORO PRIOR TO CUTTING STREET.
(2) EXCAVATED MATERIAL SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
(3) THIS REPAIR DETAIL IS REQUIRED FOR ALL EXCAVATION WITHIN 5' OF PAVED EDGE AND ALL TRANSVERSE EXCAVATIONS TO EXTEND 3' BEYOND PAVED EDGE.
(4) LEAVE FLOWABLE FILL:
2" BELOW ASPHALT SURFACE
6" BELOW CONCRETE SURFACE
6" BELOW GRAVEL SURFACE



⑭ THRUST BLOCK DETAILS

N.T.S.

NOTES:
(1) ALL BLOCKING SHALL BE AGAINST UNDISTURBED HAND DUG SOIL.
(2) WHERE SOIL CONDITIONS MAKE IT NECESSARY TO POUR CONCRETE BLOCKING OVER THE ENDS OF THE ADJACENT PIPES MUST HAVE A BRACE BLOCK TO RESIST MOVEMENT OF THESE JOINTS.
(3) ALL FITTINGS & PIPE SHALL BE COVERED WITH 8 MILL PLASTIC WHEN BLOCKING TO PREVENT BONDING OF CONCRETE.
(4) WHERE SHEAR IS HIGH PROPER REINFORCING MUST BE INSTALLED INTO THE BLOCKING AS DIRECTED BY ENGINEER.
(5) COVER SHALL BE A MINIMUM OF 3' BELOW NATURAL GRADE.
(6) CLEARANCE FROM OIL & GAS COMPANIES LINES SHALL BE A MINIMUM OF 18".
(7) THRUST BLOCKING DIMENSIONS SHALL BE 150% OF THE THRUST CALCULATED FROM THE FORMULA (THRUST=2 AP SIN¢; WHERE A=PIPE END AREA. P=PRESSURE PRODUCED BY PUMPING LIQUID. & ¢=ANGLE OF BEND TO BE BLOCKED) AND SOIL BEARING CAPACITY OF 1500 PSF.
(8) ALL CONCRETE SHALL BE 3000 PSI AT 28 DAY STRENGTH.
(9) ALL CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED SOIL.



Reaction Bearing Areas for Horizontal Water Main Pipe Bends Based on *Test Pressure* and *Soil Bearing Capacity*

Static Pressure (psi)	70	Residual Pressure (psi)	50	Test Pressure (psi)	***105***	Soil Bearing Capacity (psf)	***1500***

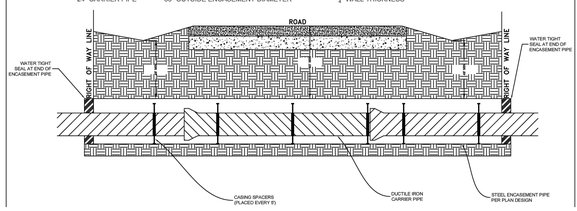
Pipe Size (in)	Unit Type	Valves, Tees, Plugs, and Dead Ends	90° Bend	45° Bend	22 1/2° Bend	11 1/4° Bend
2	Static Thrust (lbs)	466	466	252	129	65
	Reaction Bearing Area (ft^2)	1	1	1	1	1
4	Static Thrust (lbs)	1,865	1,865	1,009	515	259
	Reaction Bearing Area (ft^2)	2	2	1	1	1
6	Static Thrust (lbs)	4,196	4,196	2,271	1,158	582
	Reaction Bearing Area (ft^2)	3	3	2	1	1
8	Static Thrust (lbs)	7,460	7,460	4,037	2,058	1,034
	Reaction Bearing Area (ft^2)	5	5	3	2	1
10	Static Thrust (lbs)	11,657	11,657	6,309	3,216	1,616
	Reaction Bearing Area (ft^2)	8	8	5	3	2
12	Static Thrust (lbs)	16,786	16,786	9,084	4,631	2,327
	Reaction Bearing Area (ft^2)	12	12	7	4	2
15	Static Thrust (lbs)	26,227	26,227	14,194	7,236	3,636
	Reaction Bearing Area (ft^2)	18	18	10	5	3
18	Static Thrust (lbs)	37,768	37,768	20,440	10,420	5,235
	Reaction Bearing Area (ft^2)	26	26	14	7	4
20	Static Thrust (lbs)	46,627	46,627	25,234	12,864	6,463
	Reaction Bearing Area (ft^2)	32	32	17	9	5
24	Static Thrust (lbs)	67,142	67,142	36,337	18,525	9,307
	Reaction Bearing Area (ft^2)	45	45	25	13	7
30	Static Thrust (lbs)	104,910	104,910	56,777	28,945	14,542
	Reaction Bearing Area (ft^2)	70	70	38	20	10

⑮ WATER BORE DETAIL

N.T.S.

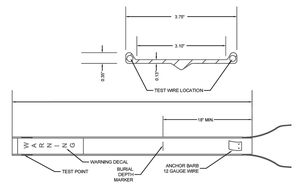
NOTES:
(1) ENCASEMENT PIPE MUST BE 0.25" THICK 20" STEEL CASING
(2) CARRIER PIPE TO BE 12" C900 PVC PIPE WITH CASING SPACERS ADDED AT 5' INCREMENTS
(3) THE TOP OF THE STEEL ENCASEMENT IS TO BE 4' BELOW THE DITCH'S FLOWLINE
(4) WORK IS TO BE OPEN-CUT FOR DITCH CROSSING LOCATIONS, UNLESS OTHERWISE SPECIFIED
(5) WHEN THE CARRIER PIPE IS DUCTILE IRON, CASING SPACERS ARE NOT REQUIRED
(6) DIMENSIONS SHALL CONFORM TO THE FOLLOWING, EXCEPT WHEN THE STATE HIGHWAY DEPARTMENT OR RAILROAD COMPANIES REQUIRE A THICKER WALL:

04" CARRIER PIPE	12" OUTSIDE ENCASEMENT DIAMETER	¼" WALL THICKNESS
06" CARRIER PIPE	12" OUTSIDE ENCASEMENT DIAMETER	¼" WALL THICKNESS
08" CARRIER PIPE	16" OUTSIDE ENCASEMENT DIAMETER	¼" WALL THICKNESS
12" CARRIER PIPE	20" OUTSIDE ENCASEMENT DIAMETER	¼" WALL THICKNESS
16" CARRIER PIPE	24" OUTSIDE ENCASEMENT DIAMETER	¼" WALL THICKNESS
20" CARRIER PIPE	30" OUTSIDE ENCASEMENT DIAMETER	¼" WALL THICKNESS
24" CARRIER PIPE	36" OUTSIDE ENCASEMENT DIAMETER	¼" WALL THICKNESS



⑯ WATER LINE MARKER DETAIL

N.T.S.



① JONESBORO CWL WATER DETAILS

SCALE: NTS

Ecological Design Group, Inc. No. 2511 ARKANSAS CERTIFICATE OF AUTHORIZATION

FENNELL PURIFOY ARCHITECTS + DAKE | WELLS architecture

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 19108 ROBERT HAZEN HOLLEY 5.18.26

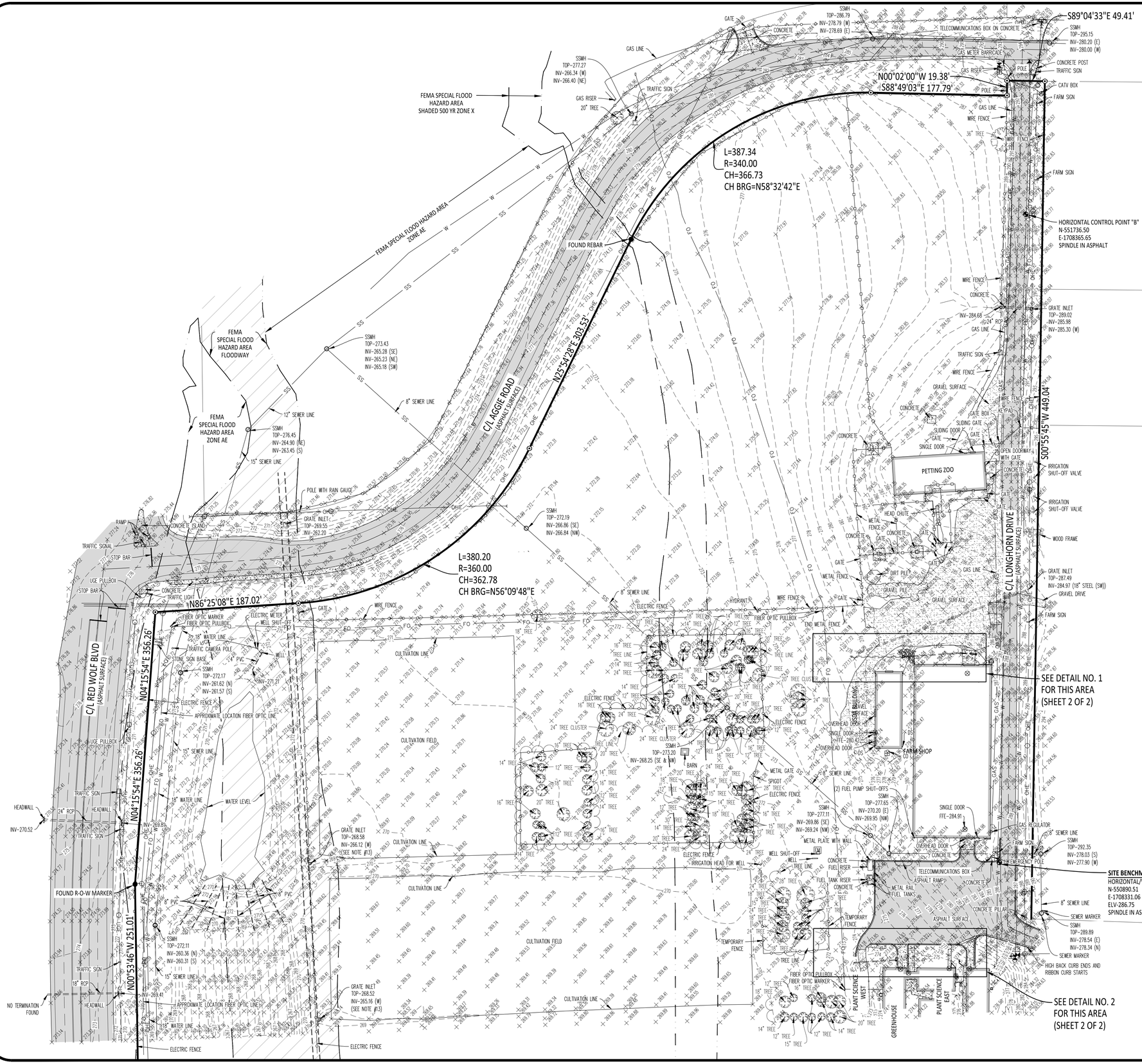
ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER
JONESBORO, ARKANSAS

REVISIONS:

100% CONSTRUCTION DOCUMENTS
05-18-2026

SITE DETAILS
C5.03

1/8/2026 8:34:07 AM



VICINITY MAP
NOT TO SCALE

SURVEYOR NOTES:

1) BASIS OF BEARINGS: GPS OBSERVATIONS (ARKANSAS NORTH STATE PLANE COORDINATE SYSTEM)
2) THE RESEARCH COMPLETED FOR THIS SURVEY INCLUDES:
   - SITE MAP PROVIDED BY CLIENT
   - WARRANTY DEED (BOOK 176, PAGE 118)
   - ARDOT RIGHT OF WAY MAPS (JOB NO. 10768)
   - PLSS CORNER CERTIFICATE (STATE DOC. 20918)
   - PLSS CORNER CERTIFICATE (STATE DOC. 20904)
   - PLSS CORNER CERTIFICATE (STATE DOC. 20932)
   - PLSS CORNER CERTIFICATE (STATE DOC. 20902)
   - PLSS CORNER CERTIFICATE (STATE DOC. 20931)
   - PLSS CORNER CERTIFICATE (STATE DOC. 20919)
   - PLSS CORNER CERTIFICATE (STATE DOC. 20917)
3) ALL CORNER MONUMENTS SET ARE ½" REBAR, UNLESS NOTED OTHERWISE ON THE PLAT.
4) OWNER: ARKANSAS STATE UNIVERSITY
5) A PORTION OF THIS TRACT DOES LIE WITHIN A FEMA DESIGNATED SPECIAL FLOOD HAZARD AREA ZONE AE, X AND FLOODWAY PER FLOOD INSURANCE RATE MAP OF CRAIGHEAD CO., AR, AND INCORPORATED AREAS, COMMUNITY PANEL NO. 05031C0258 D WITH AN EFFECTIVE DATE OF 09/26/24.
6) THE SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD OR ANY OTHER FACTS WHICH AN ACCURATE TITLE SEARCH MAY DISCLOSE. EASEMENT'S MAY EXIST FOR DEPICTED UTILITIES LOCATED ON THIS SITE.
7) CURRENT ZONING: R-3 AND R-1 (SETBACK REQUIREMENTS FOR R-1: 25' STREET & REAR; 7.5' SIDE AND R-3 SETBACK REQUIREMENTS: 20' STREET & REAR; 7.5' SIDE)
8) ALL UTILITIES SHOWN ARE BASED UPON OBSERVED EVIDENCE TOGETHER WITH 811 UTILITY LOCATION SERVICES TICKET NO. 260108-0118. THERE WERE NO AT&T UTILITIES MARKED FOR THIS TICKET.
9) HORIZON LAND SURVEYING, LLC HOLDS NO LIABILITY TO THE LOCATION OF UTILITIES ILLUSTRATED OR NOT ILLUSTRATED UPON THIS SURVEY. IT SHALL BE THE RESPONSIBILITY OF THE OWNER OR CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO ANY CONSTRUCTION OR EARTH MOVING WORK.
10) ALL HORIZONTAL/VERTICAL CONTROL POINTS DEPICTED ON THIS SURVEY ARE SPINDLES IN ASPHALT. SITE BENCHMARK ELEVATION IS 286.75 AND IS LOCATED 12 FT. EAST AND 32 FT. SOUTH FROM 207 LONGHORN DRIVE SOUTHEAST BUILDING CORNER.
11) THIS DRAINAGE PIPE TRANSITIONS FROM AN 18" STEEL TO A 12" RCP. THE TRANSITION POINT IS UNKNOWN.
12) THIS DRAINAGE PIPE TRANSITIONS FROM A 12" RCP TO AN 18" HDPE. THE TRANSITION POINT IS UNKNOWN.
13) THESE STRUCTURES FLOW INTO THE EAST SIDE OF EXISTING BOX CULVERT AS DEPICTED.

LEGEND:

- FOUND MONUMENT (AS NOTED)
- SET MONUMENT (AS NOTED)
- COMPUTED POINT
- SECTION CORNER
- WATER METER (WM)
- FIRE HYDRANT (FH)
- WATER VALVE
- UTILITY POLE
- TELEPHONE PEDESTAL (TP)
- SANITARY SEWER MANHOLE (SSMH)
- STORM DRAIN MANHOLE (SDMH)
- GRATE DRAIN INLET (GI)
- E — ELECTRIC TRANSFORMER
- EB — ELECTRIC PULLBOX
- EM — ELECTRIC METER
- LIGHT POLE
- CLEANOUT (CO)
- SIGN
- G — GAS METER (GM)
- AC — HVAC UNIT
- DS — DOWNSPOUT
- FO — FIBER OPTIC PULLBOX
- UGE — UNDERGROUND ELECTRIC (UGE)
- OHE — OVERHEAD ELECTRIC (OHE)
- WOOD FENCE
- CHAIN LINK FENCE
- SS — SEWER
- W — WATER
- GAS — GAS
- T — TELEPHONE

811 Know what's below. Call before you dig.

Horizon LAND SURVEYING, LLC
WWW.HORIZONLANDSURVEYING.COM
2918 WOOD STREET
JONESBORO, AR 72404
PH: 1-870-243-0092

PROJECT: CREST CENTER PRECINCT PROPERTY

CLIENT: ARKANSAS STATE UNIVERSITY

HORIZON LAND SURVEYING, LLC
CERTIFICATE OF AUTHORIZATION
No. 3472
ARKANSAS

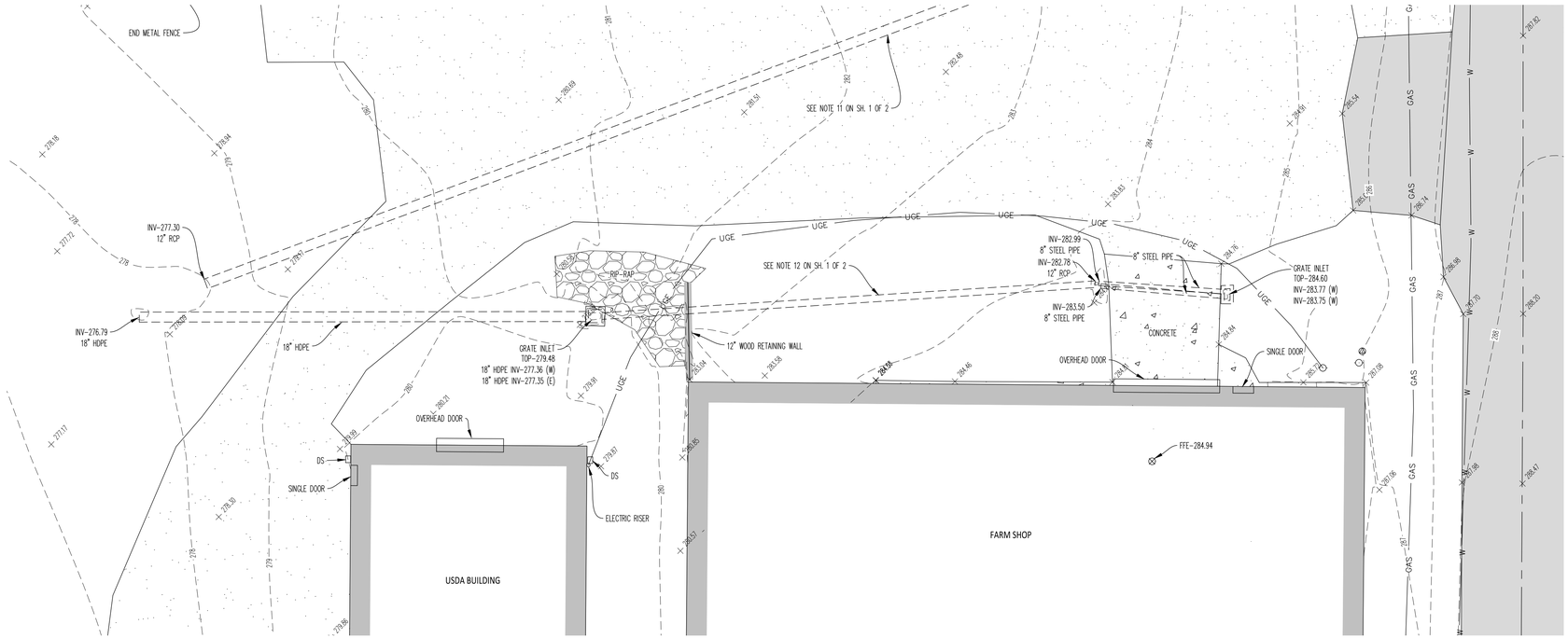
REGISTERED PROFESSIONAL SURVEYOR
STATE OF ARKANSAS
No. 15001
SIGNATURE
JIMMY R. BURNS
01/14/2026

REVISIONS		
DATE	BY	DESCRIPTION

DRAWING INFO.	
DRAWN BY:	BRE
DATE:	01/14/2026
SCALE:	1"=60'
JOB NO.:	H25-188
CAD NO.:	

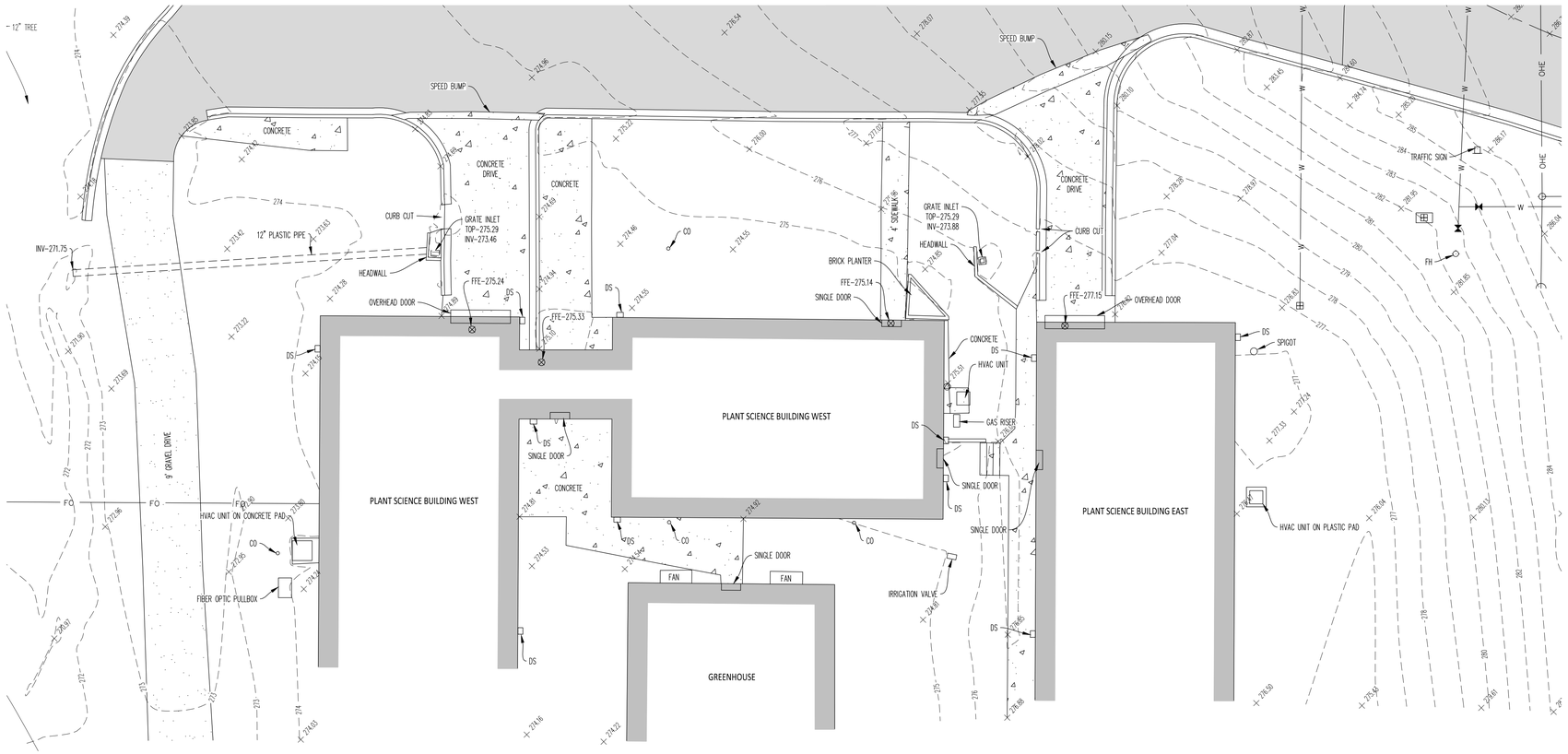
TOPOGRAPHIC SURVEY

SHEET NUMBER: 1 of 2



VICINITY MAP
NOT TO SCALE

DETAIL NO. 1



DETAIL NO. 2

LEGEND:

- FOUND MONUMENT (AS NOTED)
- SET MONUMENT (AS NOTED)
- COMPUTED POINT
- SECTION CORNER
- WATER METER (WM)
- FIRE HYDRANT (FH)
- WATER VALVE
- UTILITY POLE
- TELEPHONE PEDESTAL (TP)
- SANITARY SEWER MANHOLE (SSMH)
- STORM DRAIN MANHOLE (SDMH)
- GRATE DRAIN INLET (GI)
- ELECTRIC TRANSFORMER
- ELECTRIC PULLBOX
- ELECTRIC METER
- LIGHT POLE
- CLEANOUT (CO)
- SIGN
- GAS METER (GM)
- HVAC UNIT
- DS DOWNSPOUT
- FIBER OPTIC PULLBOX
- UGE — UNDERGROUND ELECTRIC (UGE)
- OHE — OVERHEAD ELECTRIC (OHE)
- WOOD FENCE
- CHAIN LINK FENCE
- SS — SEWER
- W — WATER
- GAS — GAS
- T — TELEPHONE

10 5 0 10
SCALE 1" = 10'

811 Know what's below. Call before you dig.

Horizon
LAND SURVEYING, LLC
WWW.HORIZONLANDSURVEYING.COM
2918 WOOD STREET
JONESBORO, AR 72404
PH: 1-870-243-0092

PROJECT:
CREST CENTER PROPERTY

CLIENT:
ARKANSAS STATE UNIVERSITY

CERTIFICATE OF AUTHORIZATION
HORIZON LAND SURVEYING, LLC
No. 3472
ARKANSAS

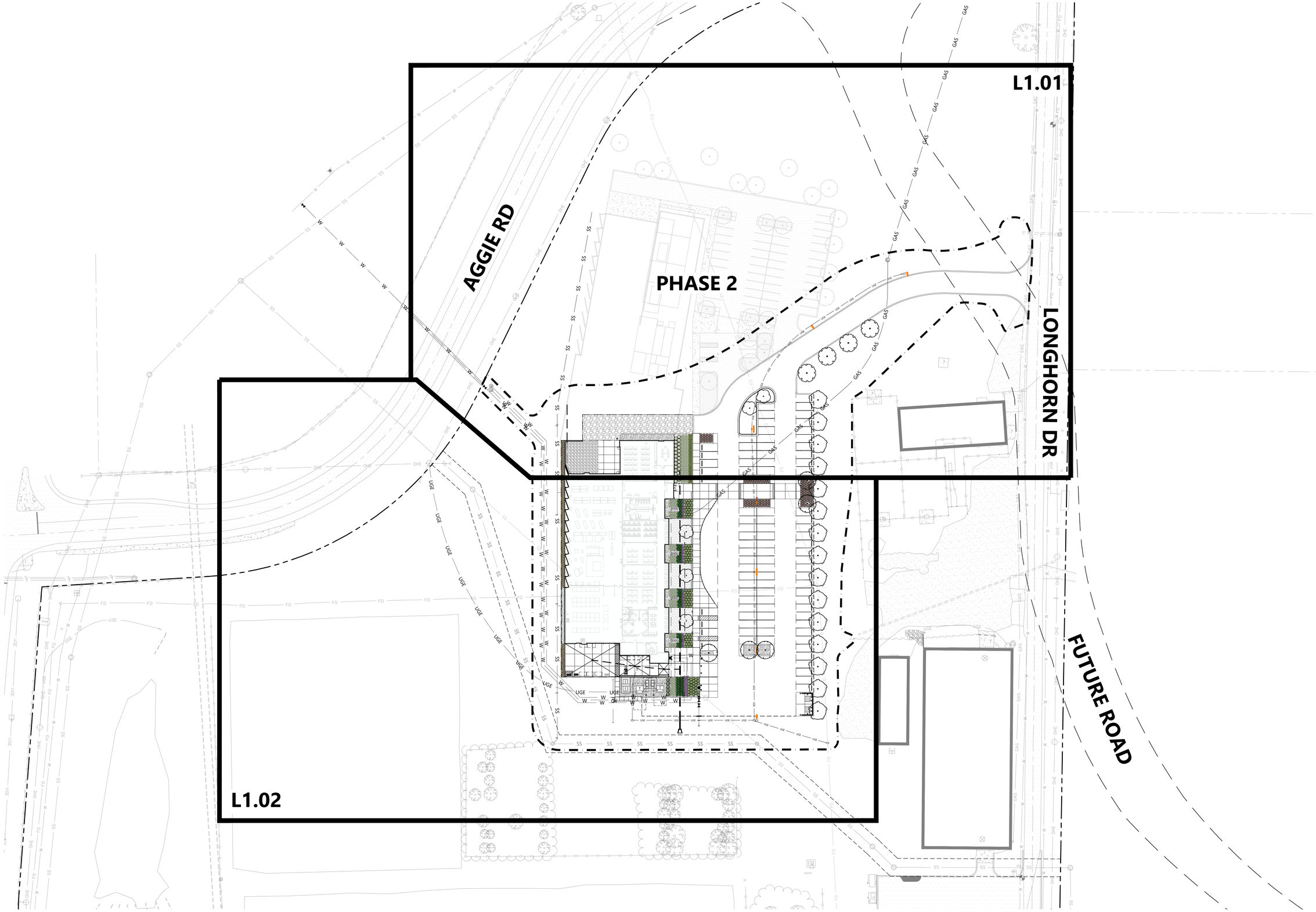
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF ARKANSAS
P.S. 1500
SIGNATURE
DANNY R. BURNS
01/14/2026

REVISIONS		
DATE	BY	DESCRIPTION

DRAWING INFO.	
DRAWN BY:	BRE
DATE:	01/14/2026
SCALE:	1"=10'
JOB NO.:	H25-188
CAD NO.:	

TOPOGRAPHIC SURVEY

SHEET NUMBER:
2 of 2



1 OVERALL LANDSCAPE PLAN

SCALE: 1" = 40'-0"

NORTH

0' 40' 80' 160'

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

REGISTERED LANDSCAPE ARCHITECT MARY BELL MARTIN 05.18.26 STATE OF ARKANSAS

ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER

JONESBORO, ARKANSAS

REVISIONS:

100% CONSTRUCTION DOCUMENTS
05-18-2026

OVERALL LANDSCAPE PLAN
L1.00

1/8/2026 9:34:07 AM

ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER

JONESBORO, ARKANSAS

PLANT SCHEDULE

SYMBOL	COMMON NAME
TREES	
	AUTUMN BRILLIANCE APPLE SERVICEBERRY
	OVERCUP OAK
	SWEETBAY MAGNOLIA
	TULIP POPLAR
SHRUBS	
	CAPE BREEZE SWITCH GRASS
	HAMELN FOUNTAIN GRASS
	LITTLE HENRY® SWEETSPIRE
	MT. AIRY DWARF WITCHALDER
	NORTHERN SEA OATS
	OHIO SPIDERWORT
	PENNSYLVANIA SEDGE
	SOFT RUSH
GROUND COVERS	
	419 HYBRID BERMUDAGRASS

PROPERTY LINE (TYP.)

C/L AGGIE ROAD (ASPHALT SURFACE)

WATER LINE EXTENSION TO THE NORTH NOT SHOWN. HYDROSEED ALL DISTURBED AREAS. REF. PLANT SCHEDULE (TYP.)

LIMITS OF DISTURBANCE (TYP.)

GAS LINE EXTENSION TO THE NORTH NOT SHOWN. HYDROSEED ALL DISTURBED AREAS. REF. PLANT SCHEDULE (TYP.)

HYDROSEED ALL DISTURBED AREAS. REF. PLANT SCHEDULE (TYP.)

419 BERMUDAGRASS SOD (TYP.)

4-OVERCUP OAK 30 GAL

2-AUTUMN BRILLIANCE APPLE SERVICEBERRY 30 GAL

419 BERMUDAGRASS SOD (TYP.)

SITE LIGHTING REF. MEP (TYP.)

STEEL EDGING. REF. SCHEDULE (TYP.)

DRAINAGE ROCK. REF. SCHEDULE (TYP.)

36-HAMELN FOUNTAIN GRASS 1 GAL 24" O.C.

110-PENNSYLVANIA SEDGE 1 GAL

135-NORTHERN SEA OATS 1 GAL 24" O.C.

FFE: 278.50

25-MT. AIRY DWARF WITCHALDER 3 GAL 48" O.C.

73-HAMELN FOUNTAIN GRASS 1 GAL 24" O.C.

1-TULIP POPLAR 30 GAL

165-CAPE BREEZE SW 1 GAL 24" O.C.

MATCHLINE L1.02

128-HAMELN FOUNTAIN GRASS 1 GAL 24" O.C.

24-LITTLE HENRY® SWEETSPIRE 3 GAL 36" O.C.

30-SOFT RUSH 1 GAL 24" O.C.

41-NORTHERN SEA OATS 1 GAL 24" O.C.

12-OHIO SPIDERWORT 1 QT 24" O.C.

66-HAMELN FOUNTAIN GRASS 1 GAL 24" O.C.

1-TULIP POPLAR 30 GAL

1-AUTUMN BRILLIANCE APPLE SERVICEBERRY 30 GAL

12-OHIO SPIDERWORT 1 QT 24" O.C.

C/L LONGHORN DRIVE (ASPHALT SURFACE)

WATER LINE

WATER SERVICE LINE

GRAVEL SURFACE

WIRE FENCE

CONCRETE

KEYPAD

SLIDING DOOR

SLIDING GATE

GATE

GATE BOX

SINGLE DOOR

OPEN ENTRY WITH GATE

IRRIGATION SHUT-OFF

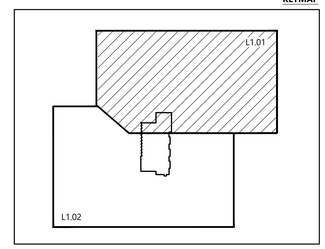
PETTING ZOO

HEAD CHUTE

METAL FENCE

DIRT PILE

KEYMAP



1 LANDSCAPE PLAN

SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

REGISTERED LANDSCAPE ARCHITECT — WENDY WELLS — 05.18.26 — STATE OF ARKANSAS

REVISIONS:

100% CONSTRUCTION DOCUMENTS
05-18-2026

LANDSCAPE PLAN
L1.01

5/18/2026 9:34:07 AM

ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER

JONESBORO, ARKANSAS

MATCHLINE L1.01

C/L AGGIE ROAD
(ASPHALT SURFACE)

PROPERTY LINE (TYP.)

L=380.20
R=360.00
CH=362.78
CH BRG=N56°09'48"E

HYDROSEED ALL DISTURBED AREAS. REF. PLANT SCHEDULE (TYP.)

CULTIVATION LINE

LIMITS OF DISTURBANCE (TYP.)

STEEL EDGING. REF. SCHEDULE (TYP.)

DRAINAGE ROCK. REF. SCHEDULE (TYP.)

FFE: 278.50

25-MT. AIRY DWARF

165-CAPE BREEZE SWITCH GRASS
1 GAL 24" O.C.

41-NORTHERN SEA OATS
1 GAL 24" O.C.

36-NORTHERN SEA OATS
1 GAL 24" O.C.

45-NORTHERN SEA OATS
1 GAL 24" O.C.

37-CAPE BREEZE SWITCH GRASS
1 GAL 24" O.C.

23-SOFT RUSH
1 GAL 24" O.C.

24-NORTHERN SEA OATS
1 GAL 24" O.C.

36-HAMELN FOUNTAIN GRASS
1 GAL 24" O.C.

110-PENNSYLVANIA SEDGE
1 GAL

135-NORTHERN SEA OATS
1 GAL 24" O.C.

24-LITTLE HENRY® SWEETSPIRE
3 GAL 36" O.C.

30-SOFT RUSH
1 GAL 24" O.C.

12-OHIO SPIDERWORT
1 QT 24" O.C.

1-AUTUMN BRILLIANCE APPLE SERVICEBERRY
30 GAL

12-OHIO SPIDERWORT
1 QT 24" O.C.

30-SOFT RUSH
1 GAL 24" O.C.

24-LITTLE HENRY® SWEETSPIRE
3 GAL 36" O.C.

3 L1.10 TREE IN CRUSHED STONE (TYP.)

1-AUTUMN BRILLIANCE APPLE SERVICEBERRY
30 GAL

24-LITTLE HENRY® SWEETSPIRE
3 GAL 36" O.C.

32-SOFT RUSH
1 GAL 24" O.C.

12-OHIO SPIDERWORT
1 QT 24" O.C.

1-AUTUMN BRILLIANCE APPLE SERVICEBERRY
30 GAL

18-LITTLE HENRY® SWEETSPIRE
3 GAL

9-OHIO SPIDERWORT
1 QT 24" O.C.

1-TULIP POPLAR
30 GAL

2-TULIP POPLAR
30 GAL

DRAINAGE ROCK. REF. SCHEDULE (TYP.)

31-LITTLE HENRY® SWEETSPIRE
3 GAL

21-OHIO SPIDERWORT
1 QT

52-SOFT RUSH
1 GAL

36-NORTHERN SEA OATS
1 GAL

5-DON'S DWARF WAX MYRTLE
5 GAL

419 BERMUDAGRASS SOD (TYP.)

HYDROSEED ALL DISTURBED AREAS. REF. PLANT SCHEDULE (TYP.)

4-OVERCUP OAK
30 GAL

2-AUTUMN BRILLIANCE APPLE SERVICEBERRY
30 GAL

419 BERMUDAGRASS SOD (TYP.)

SITE LIGHTING REF. MEP (TYP.)

73-HAMELN FOUNTAIN GRASS
1 GAL 24" O.C.

1-TULIP POPLAR
30 GAL

128-HAMELN FOUNTAIN GRASS
1 GAL 24" O.C.

66-HAMELN FOUNTAIN GRASS
1 GAL 24" O.C.

1-TULIP POPLAR
30 GAL

SITE LIGHTING REF. MEP (TYP.)

15-SWEETBAY MAGNOLIA
30 GAL

SSMH
TOP=272.19
INV=266.86 (SE)
INV=266.84 (NW)

PETTING ZOO

HEAD START

METAL FENCE

CONCRETE

GATE

DIRT PILE

GRAVEL PILE

GRAVEL SURFACE

SEE NOTE 11 THIS SHEET

SEE NOTE 11 ON SH. 1 OF 2

SEE NOTE 12 ON SH. 1 OF 2

INV=277.30
12" RCP

GRATE INLET
TOP=279.48
18" HDPE INV=277.36 (W)
18" HDPE INV=277.35 (E)

INV=282
8" STEEL
12" RC
INV=28
8" STEEL

18" HDPE

12" WOOD RETAINING WALL

OVERHEAD DOOR

SINGLE DOOR

ELECTRIC DOOR

FFE=280.42

14" TREE
12" TREE
16" TREE
20" TREE
24" TREE
18" TREE
SPIGOT
ELECTRIC FENCE
4" SEWER LINE

PLANT SCHEDULE

SYMBOL	COMMON NAME
TREES	
	AUTUMN BRILLIANCE APPLE SERVICEBERRY
	OVERCUP OAK
	SWEETBAY MAGNOLIA
	TULIP POPLAR
SHRUBS	
	CAPE BREEZE SWITCH GRASS
	HAMELN FOUNTAIN GRASS
	LITTLE HENRY® SWEETSPIRE
	MT. AIRY DWARF WITCHALDER
	NORTHERN SEA OATS
	OHIO SPIDERWORT
	PENNSYLVANIA SEDGE
	SOFT RUSH
GROUND COVERS	
	419 HYBRID BERMUDAGRASS

KEYMAP

L1.01

L1.02

1 LANDSCAPE PLAN

SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

REGISTERED LANDSCAPE ARCHITECT
WESLEY HALL
No. 2107
05.10.26
STATE OF ARKANSAS

REVISIONS:

100% CONSTRUCTION DOCUMENTS
05-18-2026

LANDSCAPE PLAN
L1.02

1/8/2026 9:34:07 AM

PLANT SCHEDULE

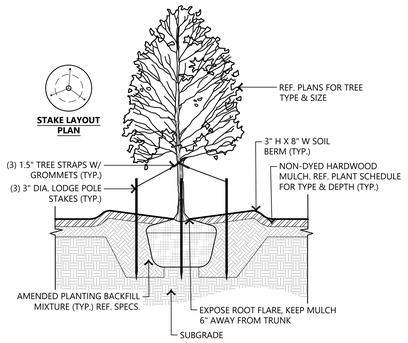
NOTE: ALL PLANT QUANTITIES SHALL BE VERIFIED BY LANDSCAPE CONTRACTOR

SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	CALIPER	CONTAINER	SPACING	MIN. HEIGHT X SPREAD	REMARKS
TREES								
	5	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE APPLE SERVICEBERRY	2.5" CAL	30 GAL	AS SHOWN	12' X 5'	SINGLE TRUNK. CONTAINER GROWN. SOURCE FROM HALE & HINES OR APPROVED EQUAL
	5	LIRIODENDRON TULIPIFERA	TULIP POPLAR	2.5" CAL	30 GAL	AS SHOWN	14' X 6'	SINGLE TRUNK 6' CLEAR. CONTAINER GROWN. SOURCE FROM HALE & HINES OR APPROVED EQUAL
	15	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA	2.5" CAL	30 GAL	AS SHOWN	10' X 5'	SINGLE TRUNK 6' CLEAR. CONTAINER GROWN. SOURCE FROM HALE & HINES OR APPROVED EQUAL
	4	QUERCUS LYRATA	OVERCUP OAK	2.5" CAL	30 GAL	AS SHOWN	14' X 6'	SINGLE TRUNK 6' CLEAR. CONTAINER GROWN. SOURCE FROM HALE & HINES OR APPROVED EQUAL
SHRUBS								
	110	CAREX PENSYLVANICA	PENNSYLVANIA SEDGE	---	1 GAL	18" O.C.		FULL, MATCHED
	317	CHASMANTHIUM LATIFOLIUM	NORTHERN SEA OATS	---	1 GAL	24" O.C.		FULL, MATCHED
	25	FOTHERGILLA GARDENII 'MT. AIRY'	MT. AIRY DWARF WITCHALDER	---	3 GAL	48" O.C.		FULL, MATCHED
	121	ITEA VIRGINICA 'SPRICH'	LITTLE HENRY® SWEETSPIRE	---	3 GAL	36" O.C.		FULL, MATCHED
	167	JUNCUS EFFUSUS	SOFT RUSH	---	1 GAL	24" O.C.		FULL, MATCHED
	5	MORELLA CERIFERA 'DON'S DWARF'	DON'S DWARF WAX MYRTLE	---	5 GAL	48" O.C.		FULL, MATCHED
	202	PANICUM VIRGATUM 'CAPE BREEZE'	CAPE BREEZE SWITCH GRASS	---	1 GAL	24" O.C.		FULL, MATCHED
	303	PENNISETUM ALOPECUROIDES 'HAMELN'	HAMELN FOUNTAIN GRASS	---	1 GAL	24" O.C.		FULL, MATCHED
	66	TRADESCANTIA OHIENSIS	OHIO SPIDERWORT	---	1 QT	24" O.C.		FULL, MATCHED
SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	CALIPER	CONTAINER	SPACING	SPACING	REMARKS
GROUND COVERS								
	16,694 SF	CYNODON DACTYLON '419 HYBRID'	419 HYBRID BERMUDAGRASS	---	SOLID SOD, CERTIFIED WEED FREE			
	58,239 SF	HYDROSEED						HYDROSEED AT 6LBS PER 1000 SQUARE FEET FOR BOTH SPECIES. SEEDING SHALL BE COMPLETED BETWEEN OCT. 1 AND MAR. 30
	58,239 SF	CYNODON DACTYLON	BERMUDAGRASS	---				
	58,239 SF	LOLIUM MULTIFLORUM	ANNUAL RYEGRASS	---				

MISCELLANEOUS	QTY	DESCRIPTION	REMARKS
	REF. PLAN	DRAINAGE ROCK	CROWLEY'S RIDGE DRAINAGE ROCK. 2-3" (LARGE), 3" DEPTH. LOCALLY SOURCED. SUBMIT SAMPLE FOR APPROVAL
— — —	REF. PLAN	STEEL EDGING	1/4" X 6". COLOR: BLACK. BY PERMALOC OR APPROVED EQUAL. SUBMIT FOR APPROVAL.
	REF. PLAN	HARDWOOD MULCH	3" DEPTH TRIPLE HAMMERED HARDWOOD MULCH. COLOR: NATIVE. ALL PLANTING BEDS. SUBMIT FOR APPROVAL.
	REF. PLAN	PLANTING MIX	REFER TO SPECIFICATIONS FOR DEPTHS AND COMPOSITION.

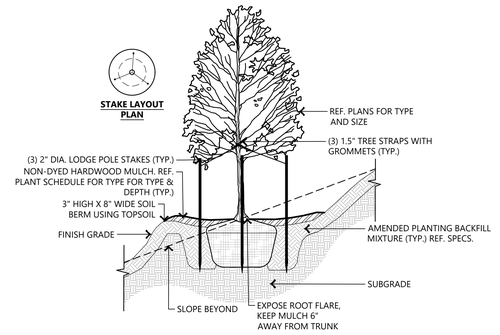
LANDSCAPE NOTES:

1. CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL UTILITIES PRIOR TO STARTING ANY WORK. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ARKANSAS ONE-CALL TO CONFIRM ALL UTILITIES. THE CONTRACTOR SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION AT NO COST TO THE OWNER.
2. ALL PLANTS MUST BE HEALTHY, VIGOROUS AND FREE OF PESTS AND DISEASE.
3. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
4. ALL PLANTS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED ON THE PLANT LIST.
5. ALL REQUIRED TREES SHALL MEET MINIMUM REQUIREMENTS PER CITY OF JONESBORO STANDARDS. ALL TREES MUST BE STRAIGHT TRUNKED AND FULL HEADED, UNLESS SPECIFIED OTHERWISE, AND MUST MEET ALL REQUIREMENTS SPECIFIED ON PLANS.
6. MAINTAIN 5' MINIMUM HORIZONTAL SEPARATION BETWEEN TREE PLANTINGS AND UTILITY LINES.
7. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER CONSTRUCTION. NOTIFY LANDSCAPE ARCHITECT OR DESIGNATED REPRESENTATIVE OF ANY LAYOUT DISCREPANCIES PRIOR TO ANY PLANTING.
8. ALL PLANTING AREAS MUST BE COMPLETELY MULCHED WITH A 3" LAYER OF NON-DYED ORGANIC HARDWOOD MULCH. MULCH SHALL BE NOT BE PLACED IMMEDIATELY ADJACENT TO TREE TRUNKS, BUT SHALL BE KEPT AT LEAST 6" FROM ROOT COLLAR AT THE SOIL LINE.
9. ALL PROPOSED PLANTING AREAS COVERED BY GRASS SHALL HAVE THE SOD COMPLETELY REMOVED BEFORE PLANTING BEGINS.
10. ALL AREAS TO BE SEEDED SHALL RECEIVE TOPSOIL AND BE GRADED PER THE GRADING PLAN. REFER. TO SPECIFICATIONS FOR TOPSOIL DEPTH.
11. ALL PLANTING BEDS SHALL BE CONTAINED BY EDGING MATERIAL OTHER THAN VEGETATION. REFER TO PLANT SCHEDULE FOR TYPES. SUBMIT FOR APPROVAL.
12. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.
13. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING MATERIAL (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) IN ALL PLANTING AREAS AND LAWN AREAS UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE OWNER.
14. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING ON THE DATE OF TOTAL ACCEPTANCE. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD. PRESERVED TREES FOR WHICH CREDIT WAS AWARDED BUT WHICH SUBSEQUENTLY DIE, SHALL BE REPLACED BY THE REQUISITE NUMBER OF LIVING TREES. ANY PLANT MATERIAL WHICH DIES, TURNS BROWN, OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.



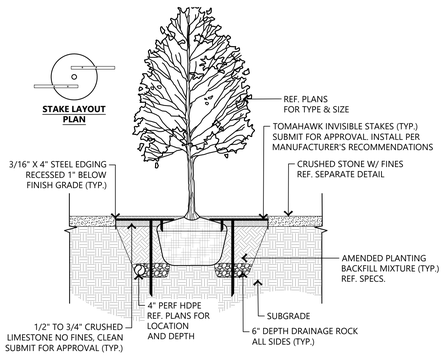
1 CANOPY TREE PLANTING DETAIL W/ STAKES

SCALE: N.T.S.



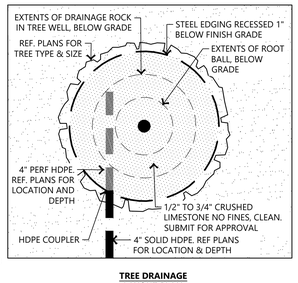
2 TREE ON A SLOPE PLANTING DETAIL

SCALE: N.T.S.

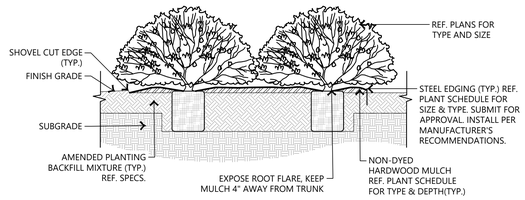


3 CANOPY TREE PLANTING W/ INVISIBLE STAKES IN CRUSHED STONE

SCALE: N.T.S.

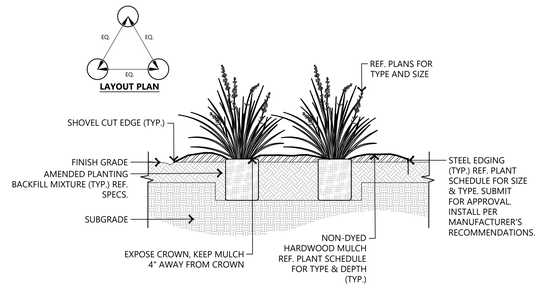


TREE DRAINAGE LAYOUT PLAN



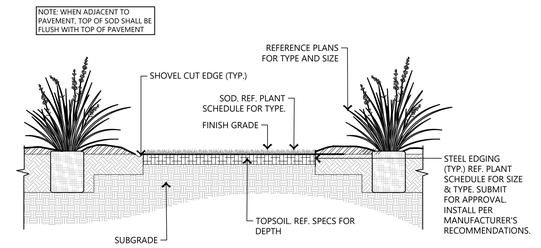
4 SHRUB PLANTING DETAIL

SCALE: N.T.S.



5 NATIVE GRASS PLANTING DETAIL

SCALE: N.T.S.



6 SOD PLANTING DETAIL

SCALE: N.T.S.

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JONESBORO, ARKANSAS

REVISIONS:

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05-18-2026

LANDSCAPE NOTES & DETAILS

L1.10

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

REGISTERED LANDSCAPE ARCHITECT MARY BELL MCCLURE 05.18.26 STATE OF ARKANSAS

1/8/2026 3:34:07 AM

AGGIE RD

LONGHORN DR

PROPOSED IRRIGATION LEGEND

- POP-UP SPRAY HEAD IRRIGATION
- DRIP IRRIGATION
- TREE DRIP RING
- 4" SLEEVES

1 OVERALL LANDSCAPE IRRIGATION PLAN

SCALE: 1" = 30'-0"

NORTH

0' 30' 60' 120'

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

REGISTERED LANDSCAPE ARCHITECT — Marty Wells — Jeremy Nutter, 71366 — 05.19.26 — STATE OF ARKANSAS

ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER

JONESBORO, ARKANSAS

REVISIONS:

100% CONSTRUCTION DOCUMENTS
05-18-2026

OVERALL LANDSCAPE IRRIGATION PLAN

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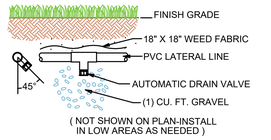
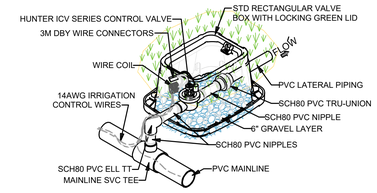


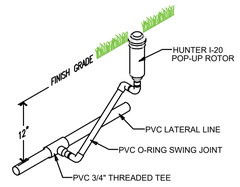
1 AUTOMATIC DRAIN VALVE

SCALE: N.T.S.



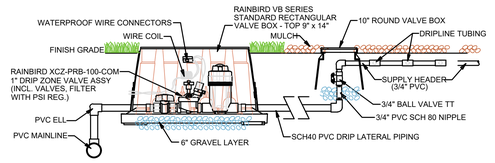
2 ZONE VALVE ASSEMBLY

SCALE: N.T.S.



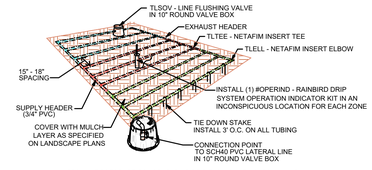
3 POP-UP TURF ROTOR

SCALE: N.T.S.



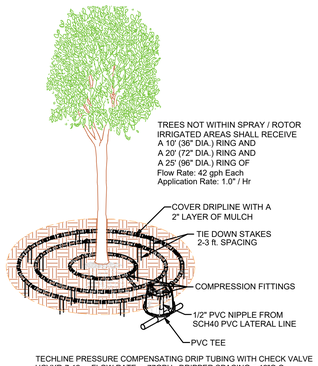
4 DRIP ZONE VALVE ASSY. & CONNECTION POINT

SCALE: N.T.S.



5 DRIP TUBING LAYOUT

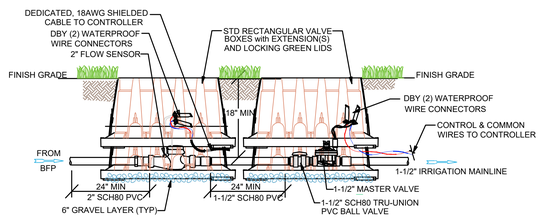
SCALE: N.T.S.



TECHLINE PRESSURE COMPENSATING DRIP TUBING WITH CHECK VALVE
HCVXR-7-12 - FLOW RATE = .77GPH DRIPPER SPACING = 12"O.C.

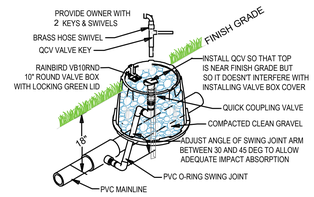
6 TREE IRRIGATION ASSEMBLY

SCALE: N.T.S.



7 HFS FLOW SENSOR & 1-1/2" MASTER VALVE

SCALE: N.T.S.



8 QUICK COUPLING VALVE

SCALE: N.T.S.

IRRIGATION GENERAL NOTES:

1. THE IRRIGATION CONTRACTOR SHALL PROVIDE A FULLY OPERATIONAL CONVENTIONAL IRRIGATION SYSTEM. THE IRRIGATION CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL. ALL PLANTING AREAS SHALL RECEIVE DRIP IRRIGATION, TREES SHALL RECEIVE DRIP RINGS, AND SOD AREAS SHALL RECEIVE TURF / POP SPRAY HEADS. 100% HEAD TO HEAD COVERAGE SHALL BE ACHIEVED.
2. BIO-RETENTION AREAS, PLANTING BEDS, SOD AREAS, SHALL BE ZONED SEPARATELY .
3. IRRIGATION CONTRACTOR SHALL INSTALL ALL EQUIPMENT AS PER MANUFACTURER'S CURRENT SPECIFICATIONS AND RECOMMENDATIONS.
4. CONTRACTOR SHALL CAREFULLY VERIFY A MINIMUM RESIDUAL WATER PRESSURE OF 70 PSI @ 60 GPM. CONTRACTOR SHALL NOTIFY THE OWNER IF WATER PRESSURE IS LESS THAN NOTED.
5. WHEN TRENCHING UNDER THE DRIPLINE OF EXISTING TREES EXTREME CARE MUST BE GIVEN TO AVOID ROOT DAMAGE. IF AT ALL POSSIBLE AVOID TRENCHING INSIDE THE DRIPLINE BY GOING AROUND THE TREE RATHER THAN UNDER IT. INSTALL PIPING AND SPRINKLERS ON THE INSIDE OF NEW CURBLINES IF POSSIBLE. IF TRENCHING MUST OCCUR UNDER THE DRIPLINE, USE EITHER TUNNELING OR HAND-DIGGING METHODS RATHER THAN A MECHANICAL TRENCHER. MINIMIZE THE IMPACT OF ROOT SEVERING BY AVOIDING CONSTRUCTION DURING HOT, DRY WEATHER, KEEPING TREES WELL WATERED BEFORE AND AFTER DIGGING AND COVERING ROOTS WITH SOIL OR MUCH AS SOON AS POSSIBLE.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES CAUSED TO ALL UTILITIES (BOTH OVERHEAD AND BELOWGROUND) DURING THE IRRIGATION INSTALLATION. CONTRACTOR SHALL SEEK THE ASSISTANCE AT LOCAL UTILITIES AND THE OWNER IN THE LOCATION OF THE UTILITIES PRIOR TO PERFORMING TRENCHING OPERATIONS IN THE WORKING AREA.
7. WINTERIZATION SHALL BE DONE USING A COMBINATION OF MANUAL DRAIN VALVES IN THE LOW POINTS OF THE MAINLINE, AUTOMATIC DRAIN VALVES ON LATERAL LINE SAND WRAPPING BACKFLOW PREVENTER WITH HEAT TAPE INSIDE THE ENCLOSURE.
8. ALL PVC MAINLINE SHALL BE PCV SCH40. LATERAL LINES PVC CL200.
9. ALL PVC FITTINGS SHALL BE SCH40 PVC TYPE I AND MUST BE OF DOMESTIC MANUFACTURER. PVC SOLVENT CEMENT AND PRIMER SHALL BE AS RECOMMENDED / APPROVED BY THE MANUFACTURER OF THE PIPE.
10. CONTRACTOR SHALL INSTALL A TRACER WIRE ABOVE ALL MAINLINE PIPING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
11. INSTALL SPRINKLERS WITH CHECK VALVE FEATURE TO AVOID LOW-HEAD DRAINAGE FROM SPRINKLERS AT LOWER ELEVATIONS. PROGRAM CONTROLLER WITH "CYCLE+SOAK" FEATURE AS REQUIRED TO ALLOW WATER TO INFILTRATE SOIL AND ELIMINATE RUN-OFF.
12. CONTRACTOR SHALL INCLUDE IN BASE BID WATER METER, BACKFLOW PREVENTOR / RPZ, CONTROLLER, AND CLIMATE SENSOR. COORDINATE EXACT LOCATIONS OF WATER METER, BACKFLOW PREVENTER / RPZ, CONTROLLER, AND CLIMATE SENSOR WITH THE LANDSCAPE ARCHITECT AND GENERAL CONTRACTOR.

SLEEVING NOTES:

1. THE GENERAL CONTRACTOR SHALL PROVIDE SCH40 PVC SLEEVING, BURIED AT A MINIMUM OF 18" AND MAXIMUM OF 24" DEPTH.
2. UPON COMPLETION OF SITE FILLING AND COMPACTION OPERATIONS, AND PRIOR TO THE CONSTRUCTION OF FOUNDATIONS, ROADWAYS, WALKS OR OTHER PAVEMENTS OR OBSTRUCTIONS, THE GENERAL CONTRACTOR SHALL INSTALL SLEEVES IN SUFFICIENT SIZES TO ACCOMMODATE FUTURE IRRIGATION PIPING AND/OR CONTROL WIRING. ENDS OF SLEEVES SHALL EXTEND 18 INCHES PAST THE EDGES OF AL PAVING OR CONSTRUCTION. THE ENDS OF THE SLEEVES SHALL BE CLEARLY MARKED FOR FUTURE USE BY THE IRRIGATION CONTRACTOR.

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

REGISTERED LANDSCAPE ARCHITECT
MARY BELL MURPHY
05.10.26
STATE OF ARKANSAS

ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER

JONESBORO, ARKANSAS

REVISIONS:

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LANDSCAPE IRRIGATION NOTES & DETAILS

L2.10

1/8/2026 3:34:07 AM

ABBREVIATIONS

ADD'L	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
AR	ANCHOR RODS
ARCH	ARCHITECTURAL
B PL	BASE PLATE
BF	BOTTOM OF FOOTING
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BP	BOTTOM OF PIER
BRG	BEARING
BTW	BETWEEN
C	CHANNEL SHAPE (i.e. C8x11.5)
C	COLD FORMED C SHAPE
C.G.	CENTER OF GRAVITY
CJ	(KEYED) CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
DBL	DOUBLE
DEG	DEGREES
DIA	DIAMETER
DIM	DIMENSION
DLH	DEEP LONGSPAN JOIST (i.e. 60DLH12)
DTL	DETAIL
DWLS	DOWELS
EA	EACH
EBC	EXTENDED BOTTOM CHORD
EJ	EXPANSION JOINT
EL	ELEVATION
ELEV	ELEVATION
EMBED	EMBEDMENT LENGTH
EOS	EDGE OF SLAB
ERECT	ERECTION
EWEF	EACH WAY, EACH FACE
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FAS	FROM ADJACENT SPAN
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FFE	FINISHED FLOOR ELEVATION
FIN FLR EL	FINISHED FLOOR ELEVATION
FS	FAR SIDE
FTG	FOOTING
FV	FIELD VERIFY
Fy	STEEL YIELD STRENGTH
G	JOIST GIRDER (i.e. 2KGBN7X)
GA	GAUGE
GB	GRADE BEAM
HORIZ	HORIZONTAL
HP	H-PILE SHAPE (i.e. HP8x36)
HS	HEADED STUD
HSS	HOLLOW STRUCTURAL SECTION (STEEL)
I/S	INSIDE
INFO	INFORMATION
INT	INTERIOR
JBE	JOIST BEARING ELEVATION
JT	JOINT
K	K-JOIST (i.e. 12K1 S.J.)
K	KIPS (KILO-POUNDS)
K/ft	KIPS PER FOOT
KCS	CONSTANT SHEAR JOIST (i.e. 12KCS2 S.J.)
KD	KILN-DRIED
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LW	LONG WAY
LWB	LAM. WOOD BEAM (i.e. LWB3x11)
M.B.	METAL BUILDING
MATL	MATERIAL
MAX	MAXIMUM
MC	MISC. CHANNEL SHAPE (i.e. MC12x10.6)
MC	MOMENT CONNECTION
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC.	MISCELLANEOUS
MPH	MILES PER HOUR
MTL	METAL
N	JOIST SPACES ON GIRDER
N.S.	NON-SHRINK
NO.	NUMBER
NS	NEAR SIDE
NTS	NOT TO SCALE
o.c.	ON CENTER
O/S	OUTSIDE
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPP.	OPPOSITE
OSB	ORIENTED STRAN BOARD
P##	DRILLED PIER (##-DIA IN INCHES)
P/T	POST-TENSIONED
PF###	PAD FOOTING (###-SIZE IN FEET)
PL	PLATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
R	RADIUS
RE:	REFERENCE
REINF	REINFORCING
REQ'D	REQUIRED
RTU	ROOF TOP UNIT
S	STANDARD STEEL SHAPE (i.e. S10x35)
S.J.	STEEL JOIST (i.e. 12K1 S.J.)
SCHED	SCHEDULE
SECT	SECTION
SH	COLD-FORMED HAT SHAPE
SIM	SIMILAR
SJ	(SAWN) CONTROL JOINT
SQ	SQUARE
STIFF	STIFFENER
SW	SHORT WAY
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TEMP	TEMPERATURE
TF	TOP OF FOOTING
TOC	TOP OF COLUMN
TOC	TOP OF CONCRETE
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TP	TOP OF PIER
TS	TUBE STEEL SHAPE (i.e. TS4x4x1/4)
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VER	VERIFY
VERT	VERTICAL
VS	VS JOIST (i.e. 2.5VS1)
W	WIDE FLANGE SHAPE (i.e. W8x10)
w/	WITH
w/o	WITHOUT
WP	WORK POINT
WT	T SHAPE (i.e. WT8x13)
WWF	WELDED WIRE FABRIC
Z	COLD FORMED Z SHAPE

STRUCTURAL NOTES

GENERAL NOTES

1. THE CONTRACTOR SHALL THOROUGHLY REVIEW ALL CONTRACT DOCUMENTS AND INFORM THE ARCHITECT OF CONFLICTS OR DISCREPANCIES PRIOR TO BIDDING, FABRICATION, AND CONSTRUCTION.

2. IN CASES OF DISCREPANCIES IN DIMENSIONS AND ELEVATIONS BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS, CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.

3. THE CONTRACTOR SHALL COORDINATE THE FIELD VERIFICATION OF ALL EXISTING SITE CONDITIONS EXISTING UTILITIES, ETC. WHETHER NOTED OR NOT IN THE CONTRACT DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS, DISCREPANCIES OR UNKNOWN CONDITIONS PRIOR TO FABRICATION AND CONSTRUCTION.

4. REPRODUCTION OF CONTRACT DRAWINGS, IN ANY FORM, WILL NOT BE ACCEPTED AS SHOP DRAWINGS.

5. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER-OF-RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL FOR REVIEW. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR ALSO SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, TECHNIQUES, AND PROCEDURES OF CONSTRUCTION.

6. CONTRACTOR SHALL PROVIDE TEMPORARY GUYS AND BRACING AS REQUIRED DURING CONSTRUCTION. STRUCTURE IS NOT STABLE UNTIL ALL STRUCTURAL MEMBERS, CONNECTIONS, AND DECKING IS IN PLACE.

7. ACI, AISC, AITC AND AWS SPECIFICATIONS SHALL GOVERN ALL PHASES OF FABRICATION AND CONSTRUCTION.

CONCRETE NOTES

CONCRETE REINFORCEMENT

1. CONCRETE REINFORCEMENT SUPPLIER SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.

2. ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.

3. PROVIDE THE FOLLOWING PROTECTIVE COVERING FOR ALL REINFORCING BARS UNLESS DETAILED OR NOTED OTHERWISE:

SLAB-ON-GRADE BARS (BOTTOM)	3" CLEAR
BELOW GRADE (CAST AGAINST EARTH)	3" CLEAR
BELOW GRADE (FORMED EDGE)	2" CLEAR
WALLS	2" CLEAR
ELEVATED SLABS & JOISTS	0.75" CLEAR

4. DO NOT CUT TIES OR CONTINUOUS BARS TO PROVIDE CLEARANCE FOR EMBEDDED ITEMS OR OTHER OBSTRUCTIONS. INDIVIDUAL BARS AND TIES MAY BE MOVED VERTICALLY UP TO 1.5" AS REQUIRED TO PROVIDE CLEARANCE FOR EMBEDS, HOOKS, ETC. DO NOT HEAT REINFORCING TO BEND IT.

5. IF DOWELS OR VERTICAL REINFORCING ARE CUT OR SEVERELY BENT, CONTRACTOR MAY BE REQUIRED TO REMOVE THE CONCRETE BACK TO THE PREVIOUS POUR JOINT AND REPLACE THE DAMAGED BARS AND CONCRETE AT THE CONTRACTOR'S EXPENSE.

6. REINFORCEMENT SHALL BE SPLICED ONLY AS SHOWN OR NOTED IN THE CONTRACT DOCUMENTS. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER-OF-RECORD PRIOR TO FABRICATION.

7. REINFORCING BARS MARKED AS CONTINUOUS SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICES ONLY.

8. ALL TENSION LAP SPLICES SHALL BE CLASS "B" UNLESS NOTED OTHERWISE.

9. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A185. LAP REINFORCEMENT 8 INCHES ON SIDES AND ENDS. MAINTAIN WIRE 1 TO 2 INCHES BELOW TOP SURFACE OF SLAB-ON-GRADE, UNLESS NOTED OTHERWISE. WELDED WIRE REINFORCEMENT MUST BE PLACED ON CHAIRS OR BOLSTERS AS REQUIRED TO MAINTAIN POSITION IN THE SLAB.

10. ONCE SHOP DRAWINGS HAVE BEEN REVIEWED, DO NOT ADD REINFORCING OR INFORMATION TO PREVIOUSLY SUBMITTED SHEETS FOR SUBSEQUENT SUBMITTALS UNLESS SHOP DRAWINGS ARE BEING RESUBMITTED AFTER BEING RETURNED "NOT REVIEWED".

11. WHERE ANCHOR RODS ARE CAST INTO CONCRETE, PROVIDE SUPPLEMENTAL REINFORCING EACH WAY, TIED NEAR THE TOP AND BOTTOM OF ALL ANCHOR RODS TO THE ADJACENT REBAR TO SECURE RODS DURING CONCRETE PLACEMENT. (MINIMUM SIZE #4)

CAST-IN-PLACE CONCRETE

1. CONCRETE SUPPLIER SHALL SUBMIT CONCRETE MIX DESIGN DATA TO THE ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.

2. CONCRETE SHALL HAVE AT LEAST THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:

A. FOOTINGS	3000 PSI
B. REINFORCED CMU & BOND BEAM FILL	(SEE MASONRY NOTES)
D. SLABS-ON-GRADE, WALLS, PILASTERS, & PEDESTALS	4000 PSI
E. ELEVATED SLABS	4000 PSI

3. SEE CONCRETE MIX DESIGN TABLE

4. PROPORTIONS OF CONCRETE MIX DESIGNS SHALL BE DETERMINED BY THE PROCEDURES ESTABLISHED IN SECTION 5.3 OF ACI 318-19.

5. MIX DESIGN MAY INCLUDE (TYPE C) FLYASH AS A REPLACEMENT FOR PORTLAND CEMENT UP TO A MAXIMUM OF 20% OF THE TOTAL CEMENTITIOUS MATERIAL. DO NOT USE A FLYASH-CONTAINING CONCRETE MIX WHEN THE TEMPERATURE DURING PLACEMENT OR CURING IS PROJECTED TO FALL BELOW 60 DEGREES FAHRENHEIT.

6. MIX DESIGN MAY INCLUDE WATER REDUCING ADMIXTURES CONFORMING TO ASTM C494, TYPE A, TO PROVIDE WORKABILITY AND SPECIFIED SLUMP WITHOUT EXCEEDING SPECIFIED WATER/CEMENT RATIOS. **WATER SHALL NOT BE ADDED ON SITE WITHOUT PRIOR APPROVAL.** ANY APPROVED WATER AMOUNTS ADDED ON SITE MUST BE RECORDED & REPORTED BY THE TESTING AGENCY.

7. ALL CONCRETE EXPOSED TO WEATHER SHALL CONTAIN 5.5% AIR ENTRAINMENT (±1.5%). DO NOT EXCEED 3% AIR CONTENT IN CONCRETE RECEIVING A STEEL TROWEL FINISH.

CAST-IN-PLACE CONCRETE MIX DESIGN TABLE

MIX DESIGN SHALL INCLUDE AT LEAST THE FOLLOWING AMOUNTS OF PORTLAND CEMENT MEETING ASTM C150 OR D595 PER CUBIC YARD OF CONCRETE

	NON-AIR ENTRAINED		AIR ENTRAINED		
28 DAY MIN. COMPRESSIVE STRENGTH (PSI)	MIN. CEMENT CONTENT (LBS/YARD^3)	MAXIMUM PERMISSIBLE W/C RATIO	MIN. CEMENT CONTENT (LBS/YARD^3)	MAXIMUM PERMISSIBLE W/C RATIO	MAX. SLUMP w/ WRA
3000	470	0.53	517	0.46	4"
4000	564	0.44	611	0.40	6"

MASONRY NOTES

1. ALL CONCRETE MASONRY UNITS (CMU) SHALL COMPLY WITH ASTM C90, AND HAVE A MINIMUM NET COMPRESSIVE STRENGTH OF 1900 PSI. SIZES SHALL BE AS INDICATED ON THE CONTRACT DRAWINGS.

2. TYPE M MORTAR SHALL BE USED BELOW GRADE AND TYPE S MORTAR SHALL BE USED ABOVE GRADE. MIX MORTAR IN ACCORDANCE WITH ASTM C270. USE TYPE 1 PORTLAND CEMENT (TYPE III MAY BE USED FOR COLD WEATHER CONSTRUCTION) MEETING ASTM C1329, HYDRATED LIME MEETING ASTM C207 AND AGGREGATE MEETING ASTM C144.

3. FILL ALL BOND BEAMS, ALL CMU CELLS WITH VERTICAL REINFORCING OR EXPANSION BOLTS, AND ALL CELLS BELOW GRADE WITH 3000 PSI GROUT MEETING THE FOLLOWING REQUIREMENTS:

A. USE A MINIMUM OF 5.5 BAGS OF PORTLAND CEMENT PER CUBIC YARD.
B. MAXIMUM WATER/CEMENT RATIO BY WEIGHT SHALL BE 0.54.
C. WATER-REDUCING ADMIXTURE MEETING ASTM C494 SHALL BE USED TO PROVIDE SUFFICIENT FLOWABILITY TO READILY FILL CELLS WITH A REASONABLE AMOUNT OF RODDING. ADDITIONAL WATER WILL NOT BE ALLOWED AFTER INITIAL MIXING.
D. AGGREGATE SHALL BE WELL GRADED WITH A MAXIMUM SIZE OF 3/8".
E. ALTERNATE MIX DESIGNS WILL BE CONSIDERED IF SUBMITTED TO THE ARCHITECT FOR APPROVAL AFTER CONTRACT IS AWARDED. ALTERNATE DESIGNS MUST SHOW SUFFICIENT FLOWABILITY CHARACTERISTICS AND A 28-DAY COMPRESSIVE STRENGTH OF AT LEAST 3000 PSI

4. MAXIMUM HEIGHT OF ALL GROUT FILL SHALL NOT EXCEED 4'-0" UNLESS CLEANOUT AND INSPECTION HOLE IS PROVIDED AT THE BOTTOM OF THE POUR.

5. ALL CMU SHALL BE REINFORCED WITH #5 VERTICAL AND DOWELS AT 4'-0" ON CENTER UNLESS SPECIFICALLY NOTED OTHERWISE OR NOTED AS UNREINFORCED MASONRY ON THE PLANS. WHERE SPLICES ARE REQUIRED, USE A LAP LENGTH OF AT LEAST 28 INCHES.

6. ALL VERTICAL CORNERS, VERTICAL END CELLS AND ONE CELL EACH SIDE OF ALL OPENINGS SHALL BE GROUTED AND REINFORCED WITH (1) #5 UNLESS NOTED OTHERWISE.

7. HORIZONTAL BOND BEAMS WITH (2) #5 CONTINUOUS SHALL BE PROVIDED AT THE TOP AND BOTTOM OF ALL OPENINGS, AT STRUCTURALLY CONNECTED ROOF AND FLOOR LEVELS, AT THE TOP OF ALL PARAPETS OR WALLS AND AS SPECIFICALLY SHOWN ON THE CONTRACT DRAWINGS. BOND BEAMS ABOVE AND BELOW OPENINGS SHALL EXTEND AT LEAST 2'-0" BEYOND THE OPENING UNLESS NOTED OTHERWISE.

8. WHERE VERTICAL REINFORCING AND HORIZONTAL REINFORCING INTERSECT, ALL REINFORCING SHALL RUN CONTINUOUS.

9. HORIZONTAL REINFORCING SHALL BE CONTINUOUS AT CORNERS WITH 90-DEGREE BENDS OR CORNER BARS WITH EACH LEG EQUAL TO THE REQUIRED LAP LENGTH. (SEE TYPICAL CORNER BAR DETAIL)

10. IN SEISMIC DESIGN CATEGORY D BOND BEAMS WITH (2) #4 CONTINUOUS HORIZONTAL BARS SHALL BE PLACED AT A MAXIMUM OF 4'-0" ON CENTER VERTICALLY TO PROVIDE THE HORIZONTAL REINFORCING REQUIRED BY THE BUILDING CODE. (HORIZONTAL JOINT REINFORCING MAY BE OMITTED)

METALS NOTES

STRUCTURAL STEEL

1. STRUCTURAL STEEL SUPPLIER SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.

2. ALL STRUCTURAL STEEL SHAPES SHALL BE AS FOLLOWS:

A. ALL WIDE FLANGE STRUCTURAL STEEL SHAPES SHALL BE ASTM A992.
B. SQUARE OR RECTANGULAR HOLLOW STRUCTURAL SECTIONS SHALL BE ASTM A500, GRADE B, Fy = 46 KSI
C. ROUND HOLLOW STRUCTURAL SECTIONS SHALL BE ASTM A500, GRADE B, Fy = 42 KSI
D. ROUND STEEL PIPES SHALL BE ASTM A53, GRADE B, Fy = 35 KSI
E. ALL OTHER STRUCTURAL STEEL (CHANNELS, ANGLES, PLATES, ETC.) SHALL BE ASTM A36.

3. ALL ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 (OR GRADE 55 WITH SUPPLEMENT S1 - WELDABILITY) UNLESS NOTED OTHERWISE.

4. STRUCTURAL BOLTS SHALL BE ASTM A325-N, UNLESS OTHERWISE NOTED.

5. BOLTS THRU WOOD BLOCKING SHALL BE ASTM A307. ALL BOLTS IN CONTACT WITH TREATED WOOD SHALL BE STAINLESS STEEL (TYPE 316L), OR HOT DIPPED GALVANIZED WITH A MINIMUM COATING THICKNESS OF 0.2 OUNCES PER SQUARE FEET (ASTM A153). USE STAINLESS BOLTS WITH STAINLESS STEEL CONNECTORS AND GALVANIZED BOLTS WITH GALVANIZED CONNECTORS IF ONLY ONE IS SPECIFIED.

6. POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE SHALL BE STANDARD ASTM A36 THREADED RODS (OR APPROVED EQUAL) WITH A MINIMUM STEEL YIELD STRENGTH OF Fy=36 KSI, OR ASTM F593 STAINLESS STEEL ANCHORS WITH A MINIMUM YIELD STRENGTH OF Fy=45 KSI, UNLESS SHOWN OTHERWISE ON THE DRAWINGS. ADHESIVE SHALL BE HILTI "HIT-RE 500-SD" SYSTEM (REF: ICC-ES ESR-2322), SIMPSON STRONG-TIE "SET-3G" SYSTEM (REF: ICC-ES ESR-4057), (OR APPROVED EQUAL).

7. POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE FILLED CMU CELLS SHALL BE STANDARD ASTM A36 THREADED RODS (OR APPROVED EQUAL) WITH A MINIMUM STEEL YIELD STRENGTH OF Fy= 36 KSI, OR ASTM F593 STAINLESS STEEL ANCHORS WITH A MINIMUM YIELD STRENGTH OF Fy=45 KSI, UNLESS SHOWN OTHERWISE ON THE DRAWINGS. ADHESIVE SHALL BE HILTI "HIT-HY70" SYSTEM (REF: ICC-ES ESR-2682), SIMPSON STRONG-TIE "SET-3G" SYSTEM (REF: ICC-ES ESR-4844), (OR APPROVED EQUAL).

8. POST-INSTALLED ADHESIVE ANCHORS IN HOLLOW CMU OR CLAY MASONRY SHALL BE STANDARD ASTM A36 THREADED RODS (OR APPROVED EQUAL) WITH A MINIMUM STEEL YIELD STRENGTH OF Fy= 36 KSI OR ASTM F593 STAINLESS STEEL ANCHORS WITH A MINIMUM STEEL YIELD STRENGTH OF Fy=45 KSI, UNLESS SHOWN OTHERWISE ON THE DRAWINGS. ADHESIVE AND SCREEN TUBES SHALL BE HILTI "HIT-HY70" SYSTEM (REF: ICC-ES ESR-2682, SIMPSON STRONG-TIE "SET" SYSTEM (REF: ICC-ES ESR-1772), (OR APPROVED EQUAL).

9. POST-INSTALLED SCREW ANCHORS SHALL BE HILTI "KWIK HUS EZ" (REF: ICC-ES ESR-3027), SIMPSON STRONG-TIE "TITEN HD" (REF: ICC-ES ESR-2713), (OR APPROVED EQUAL), UNLESS NOTED OTHERWISE.

10. CONNECTIONS WITH HIGH STRENGTH BOLTS SHALL BE DESIGNED CONSIDERING BOLT THREADS INCLUDED IN THE SHEAR PLANE (A325-N). ALL BOLTING SHALL BE INSTALLED BY THE TURN-OF-THE-NUT METHOD, REMOVABLE LOAD INDICATOR BOLTS, OR CALIBRATED WRENCH. SNUG TIGHT BOLTING WILL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON THE CONTRACT DRAWINGS.

11. ALL HIGH STRENGTH BOLTED CONNECTIONS (EXCEPT COMPOSITE FLOOR BEAM CONNECTIONS) SHALL BE BEARING TYPE SELECTED TO SUPPORT ONE-HALF (1/2) OF THE TOTAL UNIFORM LOAD CAPACITY OF THE BEAMS AS SHOWN IN TABLE 3-6 OF THE AISC MANUAL, 14TH EDITION, FOR THE GIVEN BEAM SIZE, SPAN AND GRADE OF STEEL SPECIFIED. THE EFFECTS OF ANY CONCENTRATED LOADS MUST BE TAKEN INTO ACCOUNT. CONNECTIONS SHALL BE DESIGNED CONSIDERING THREADS INCLUDED IN THE SHEAR PLANE (A325-N).

12. ALL WELDS SHALL BE E70XX, MINIMUM AND SHALL BE PERFORMED BY AWS CERTIFIED WELDERS, CERTIFIED WITHIN THE PREVIOUS TWELVE (12) MONTHS. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THE BUILDING AND COMPONENTS DUE TO FIRE HAZARDS FROM WELDING.

13. DO NOT PRIME PAINT STEEL THAT RECEIVES SPRAYED FIREPROOFING.

14. ALL STEEL LINTELS AND SHELF ANGLES SHALL BE COATED WITH A ZINC RICH PRIMER.

15. ALL STRUCTURAL STEEL EXPOSED TO WEATHER (SUCH AS MECHANICAL FRAMES) SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

16. WHERE STEEL BACKING IS USED IN CONNECTIONS WITH COMPLETE-JOINT PENETRATION (CJP) FLANGE WELDS, STEEL BACKING AND TABS SHALL BE REMOVED EXCEPT THAT TOP FLANGE BACKING ATTACHED TO THE COLUMN BY A CONTINUOUS FILLET WELD ON THE EDGE BELOW THE CJP GROOVE WELD NEED NOT BE REMOVED. REMOVAL OF STEEL BACKING AND TABS SHALL BE AS FOLLOWS:

A. FOLLOWING THE REMOVAL OF BACKING, THE ROOT PASS SHALL BE BACKGOUGED TO SOUND WELD METAL AND BACKWELDED WITH A REINFORCING FILLET. THE REINFORCING FILLET SHALL HAVE A MINIMUM LEG SIZE OF 3/16" (8 mm).

B. WELD TAB REMOVAL SHALL EXTEND TO WITHIN 1/8" (3 mm) OF THE BASE METAL SURFACE EXCEPT AT CONTINUITY PLATES WHERE REMOVAL TO WITHIN 1/4" (6 mm) OF THE PLATE EDGE IS ACCEPTABLE. EDGES OF THE WELD TAB SHALL BE FINISHED TO A SURFACE ROUGHNESS VALUE OF 500 MICRO-IN. (13 MICROMETERS) OR BETTER. GRINDING TO A FLUSH CONDITION IS NOT REQUIRED. GOUGES AND NOTCHES ARE NOT PERMITTED. THE TRANSITIONAL SLOPE OF ANY AREA WHERE GOUGES AND NOTCHES HAVE BEEN REMOVED SHALL NOT EXCEED 1:5. MATERIAL REMOVED BY GRINDING THAT EXTENDS MORE THAN 1/16" (2 mm) BELOW THE SURFACE OF THE BASE METAL SHALL BE FILLED WITH WELD METAL. THE CONTOUR OF THE WELD AT THE ENDS SHALL PROVIDE A SMOOTH TRANSITION, FREE OF NOTCHES AND SHARP CORNERS.

17. WHERE WELD ACCESS HOLES ARE PROVIDED, THEY SHALL BE AS SHOWN IN FIGURE 11-1 OF ANSI/AISC 341-02 (AISC SEISMIC PROVISIONS, DATED MAY 21, 2002). THE WELD ACCESS HOLE SHALL BE GROUND SMOOTH TO A SURFACE ROUGHNESS VALUE NOT TO EXCEED 500 MICRO-IN. (13 MICROMETERS), AND SHALL BE FREE OF NOTCHES AND GOUGES.

18. INCLUDE A 2-TON ALLOWANCE FOR "MISCELLANEOUS STEEL" TO BE USED DURING CONSTRUCTION AS REQUIRED DUE TO THIS EARLY STRUCTURAL PACKAGE BEING ISSUED BEFORE THE FINAL ARCHITECTURAL AND MEP PACKAGE.

METAL JOISTS

1. METAL JOIST SUPPLIER SHALL SUBMIT SHOP DRAWINGS PREPARED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARKANSAS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.

2. METAL JOISTS SHALL BE DESIGNED, MANUFACTURED, AND BRIDGED TO CONFORM TO THE "STEEL JOIST INSTITUTE" STANDARD SPECIFICATION. PROVIDE RECOMMENDED CAMBER FOR THE JOIST SPAN. DO NOT WELD EXTENDED BOTTOM CHORDS OF JOISTS UNTIL ALL DEAD LOAD IS IN PLACE. PROVIDE SLOPED AND SKEWED SEATS ON ALL JOISTS AS REQUIRED. PROVIDE UPLIFT BRIDGING AND DESIGN JOISTS FOR A NET UPLIFT OF 10 PSF. ALL BRIDGING SHALL BE DESIGNED AND SUPPLIED BY THE JOIST MANUFACTURER.

METAL DECKING

1. METAL DECKING SUPPLIER SHALL SUBMIT SHOP DRAWINGS PREPARED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARKANSAS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.

2. ROOF DECKING SHALL BE 1.5B20 PAINTED ROOF DECK ATTACHED TO THE STRUCTURE WITH 5/8" DIAMETER PUDDLE WELDS IN A 36/4 PATTERN AND (2) SIDELAP FASTENERS BETWEEN SUPPORTS.

3. ACOUSTICAL ROOF DECKING SHALL BE 1.5LBA20 PAINTED ROOF DECK ATTACHED TO THE STRUCTURE WITH 5/8" DIAMETER PUDDLE WELDS IN A 36/4 PATTERN AND (2) SIDELAP FASTENERS BETWEEN SUPPORTS.

COLD-FORMED STRUCTURAL STEEL FRAMING

1. COLD-FORMED METAL FRAMING SUPPLIER SHALL SUBMIT CALCULATIONS AND SHOP DRAWINGS SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARKANSAS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.

2. SHOP DRAWINGS SHALL DETAIL A COMPLETE SYSTEM SHOWING MEMBER SIZES, SPACING AND CONNECTIONS TO THE STRUCTURE.

3. ALL STRUCTURAL STUDS, TRACK, BRIDGING, END CLOSURES AND ACCESSORIES SHALL BE FORMED FROM STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A653/A653M.

4. ALL COLD-FORMED STEEL STUD SECTIONS ARE IDENTIFIED ACCORDING TO THE DESIGNATIONS GIVEN IN THE "STEEL STUD MANUFACTURERS ASSOCIATION" (SSMA) PRODUCT TECHNICAL INFORMATION MANUAL. SEE SSMA FOR MINIMUM SECTION PROPERTIES

EXAMPLE: 600S162-43

600 = MEMBER DEPTH (600 x 1/100 INCHES = 6")

S = STYLE (S = STUD, T = TRACK, U = CHANNEL)

162 = FLANGE WIDTH (162 x 1/100 INCHES = 1.625" = 1-5/8")

43 = MATERIAL THICKNESS (43 = 43 MILS x 1/1000 INCHES = 0.043")

YIELD STRENGTH SHALL BE 33 KSI UNLESS NOTED ON PLANS AS FOLLOWS:

600S162-43 (50 KSI) - FOR 50 KSI YIELD STRENGTH

5. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

6. PROVIDE COLUMNS BUILT-UP OF MULTIPLE STUDS (2 STUDS MIN.) FOR HEADER AND BEAM BEARING.

7. ALL STUDS AT LOADBEARING WALLS SHALL BE CUT FULL LENGTH WITH TRACKS (TOP & BOTTOM) INSTALLED TIGHT AGAINST ENDS OF STUD. NO GAPS BETWEEN END OF STUDS AND TRACK WILL BE ALLOWED IN LOAD BEARING STUDS.

8. ALL COLD-FORMED STEEL FRAMING SHAPES (SUCH AS Z-PURLINS, C-PURLINS, HAT CHANNELS AND EAVE STRUTS) ARE IDENTIFIED ACCORDING TO THE DESIGNATIONS GIVEN IN THE LIGHT GAGE STEEL INSTITUTE (LGSI) "LIGHT GAGE STRUCTURAL STEEL FRAMING SYSTEM DESIGN HANDBOOK". SEE LGSI FOR MINIMUM SECTION PROPERTIES.

EARTHWORK & FOUNDATION NOTES

EXCAVATION & FILL

1. ALL UNDERCUTTING, SITE PREPARATION, FILL SELECTION, BACKFILLING AND COMPACTION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND SOILS ENGINEER'S RECOMMENDATIONS.

2. SELECT FILL BENEATH THE BUILDING SHALL BE PLACED IN LIFTS NOT EXCEEDING 8" LOOSE THICKNESS AND COMPACTED TO AT LEAST 95" OF MAXIMUM MODIFIED PROCTOR DRY DENSITY (ASTM D1557). THE IN-PLACE DENSITY AND MOISTURE CONTENT SHALL BE ESTABLISHED AND APPROVED FOR EACH LIFT PRIOR TO PLACEMENT OF SUBSEQUENT LIFTS.

3. SUBGRADE PREPARATION, INCLUDING UNDERCUTS WHERE REQUIRED, SHALL EXTEND AT LEAST 10'-0" BEYOND BUILDING LIMITS.

SPREAD FOOTINGS

1. BOTTOM OF FOOTING ELEVATIONS (BF) SHOWN ON THE PLANS ARE FOR ESTIMATING PURPOSES ONLY AND ARE NOT NECESSARILY TO BE USED FOR CONSTRUCTION. THE SOILS ENGINEER OR HIS REPRESENTATIVE SHALL BE ENGAGED TO INSPECT ALL FOOTING EXCAVATIONS TO VERIFY THAT THE REQUIRED ALLOWABLE BEARING CAPACITY IS ATTAINABLE. BOTTOM OF FOOTING ELEVATIONS SHALL BE ADJUSTED PER THE ON-SITE RECOMMENDATIONS OF THE SOILS ENGINEER OR HIS REPRESENTATIVE.

2. ALL SPREAD FOOTINGS SHALL BE FOUNDED IN PROPERLY COMPACTED SELECT FILL WITH AN ALLOWABLE NET BEARING CAPACITY OF AT LEAST 2000 PSF FOR CONTINUOUS AND 2500 PSF FOR INDIVIDUAL SPREAD FOOTINGS. (REF: GEOTECHNICAL INVESTIGATION, DATED NOVEMBER 24, 2025 BY MTA ENGINEERS.)

3. MAINTAIN FINISHED GRADE (AND/OR BOTTOM OF FOOTING ELEVATIONS) TO PROVIDE AT LEAST 1'-6" COVER ABOVE THE BOTTOM OF ALL EXTERIOR FOOTINGS FOR FROST PROTECTION.

CERTIFICATE OF AUTHORIZATION — ENGINEERING CONSULTANTS, INC. — No. 26 — ARKANSAS ENGINEER

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JOB# 25-293 4/15/2026

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING
JONESBORO, ARKANSAS

REVISIONS:

STRUCTURAL ISSUE SET
04-15-2026

GENERAL NOTES
S001

4/15/2026 8:54:09 AM

RETAINING WALLS

1. ALL RETAINING WALLS SHALL HAVE A PROPERLY INSTALLED DRAINAGE SYSTEM TO RELIEVE HYDROSTATIC PRESSURE.

2. BACKFILL BOTH SIDES OF WALLS EQUALLY UNTIL LOW SIDE IS UP TO GRADE.

3. PROVIDE ADDITIONAL SHORING FOR ALL FOUNDATION WALLS AS REQUIRED DURING CONSTRUCTION BACKFILLING AND COMPACTION OPERATIONS.

4. ALL FOUNDATION WALLS WITH AN ELEVATED CONCRETE SLAB FRAMING INTO THE TOP OF THE WALL MAY BE BACKFILLED ONLY AFTER THE ELEVATED SLAB ABOVE IS IN PLACE AND CURED.

5. IF RETAINING WALLS ARE REQUIRED BY THE BUILDING OFFICIALS TO BE INSPECTED (AS-BUILT CERTIFICATION FORM), THE CONTRACTOR SHALL RETAIN THE SERVICES OF AN INDEPENDENT REGISTERED ENGINEER OR NOTIFY THE ENGINEER-OF-RECORD AT LEAST 3 DAYS PRIOR TO COVERING UP THE REBAR WITH WALL FACING MATERIAL (WHETHER CONCRETE OR MASONRY), SO THAT IN-PLACE REBAR MAY BE PROPERLY INSPECTED.

SPECIAL INSPECTION NOTES

1. SPECIAL INSPECTIONS SHALL BE REQUIRED IN ACCORDANCE WITH CHAPTER 17 OF THE BUILDING CODE. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS WITH THE INSPECTION AGENCY.

2. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO PERFORM THE REQUIRED INSPECTION TO THE SATISFACTION OF THE BUILDING OFFICIAL.

3. THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF INSPECTIONS. INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.

4. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK.

5. A FINAL REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES SHALL BE SUBMITTED TO THE OWNER, BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AT THE COMPLETION OF THE STRUCTURAL PORTION OF THE WORK.

SOIL TESTING AND INSPECTIONS

1. A QUALIFIED TESTING LABORATORY SHALL TEST ALL CONTROLLED STRUCTURAL FILL. A MINIMUM OF TWO SOIL COMPACTION TESTS SHALL BE MADE FOR EACH LIFT.

2. AFTER FOOTING EXCAVATIONS HAVE BEEN MADE TO DESIGN ELEVATIONS, THE INDEPENDENT TESTING AGENCY SHALL INSPECT AND TEST THE BEARING SOIL TO VERIFY THAT IT MEETS THE REQUIRED DESIGN CAPACITY.

CONCRETE CONSTRUCTION INSPECTIONS

1. INSPECT REINFORCING STEEL PRIOR TO PLACING CONCRETE. CHECK REINFORCING SIZE, SPACING AND LOCATION.

2. VERIFY SIZE, TYPE, EMBEDMENT DEPTH, PROJECTION AND QUANTITY OF ANCHOR BOLTS.

3. CYLINDERS SHALL BE MADE FOR DETERMINING THE CONCRETE STRENGTH FROM EACH CLASS OF CONCRETE TO BE PLACED. SAMPLES SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 150 CUBIC YARDS OF CONCRETE, NOR LESS THAN ONCE FOR EACH 5,000 SQUARE FEET OF SURFACE AREA FOR SLABS OR WALLS. (EACH SAMPLE SHALL CONSIST OF 4 CYLINDERS MADE, HANDLED AND TESTED PER THE SPECIFICATIONS.)

4. EACH TIME THE CYLINDERS ARE MADE THE SLUMP, AIR CONTENT AND TEMPERATURE OF THE CONCRETE SHALL ALSO BE CHECKED.

5. THE CONTRACTOR'S METHOD OF MAINTAINING THE MINIMUM CURING TEMPERATURE AND CURING TECHNIQUE SHALL BE REVIEWED.

6. PROVIDE CONTINUOUS INSPECTION OF POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE ELEMENTS TO VERIFY THE INSTALLATION IS IN ACCORDANCE WITH STRUCTURAL DRAWINGS, EVALUATION SERVICE REPORT, AND MANUFACTURER'S INSTRUCTIONS. VERIFY LOCATION, EDGE DISTANCES, SPACING, DRILL BIT SIZE, HOLE DEPTH, HOLE CLEANING PROCEDURES, ANCHOR MATERIAL, EMBEDMENT, AND INSTALLATION PROCEDURES INCLUDING CHECKING EXPIRATION DATE AND PROPER MIXING OF ADHESIVE.

MASONRY CONSTRUCTION INSPECTIONS

1. ALL MASONRY CONSTRUCTION FOR LOAD BEARING WALLS SHALL BE INSPECTED AND EVALUATED IN ACCORDANCE WITH THE REQUIREMENTS FOR LEVEL 2 QUALITY ASSURANCE AS OUTLINED IN TABLE 1.19.2 OF THE MASONRY CODE (TMS 402/ACI 530/ASCE 5).

STEEL CONSTRUCTION INSPECTIONS

1. PERIODICALLY VERIFY THAT THE PROPER MATERIALS FOR HIGH-STRENGTH BOLTS, STRUCTURAL STEEL AND WELD FILLER MATERIALS ARE BEING USED.

2. PERIODICALLY CHECK TIGHTENING OF HIGH-STRENGTH BOLTS USING THE TURN OF THE NUT METHOD WITH MATCH MARKING TECHNIQUES OR DIRECT TENSION INDICATOR BOLTS.

3. WELDING PROCEDURES, MATERIALS AND WELDER QUALIFICATIONS FOR ALL FIELD WELDING SHALL BE VERIFIED PRIOR TO THE START OF WORK.

4. PERIODIC INSPECTION OF WELDING IN PROGRESS AND VISUAL INSPECTION OF ALL FIELD WELDS SHALL BE MADE FOR ALL SINGLE PASS FILLET WELDS NOT EXCEEDING 5/16" IN SIZE AND FOR FLOOR DECK WELDING.

WOOD CONSTRUCTION INSPECTIONS

1. PERIODICALLY VERIFY THAT THE PROPER SIZE, SPECIES, GRADE, SPACING, ETC. OF ALL WOOD FRAMING MEMBERS ARE USED.

2. PERIODICALLY VERIFY THAT THE PROPER CONNECTIONS ARE USED INCLUDING FRAMING ANCHORS, HANGERS, SIZE, SPACING & NUMBER OF NAILS, ETC.

3. PERIODICALLY VERIFY THAT ALL STRUCTURAL BRIDGING, BLOCKING AND BRACING IS PROPERLY INSTALLED.

DESIGN LOADS

DEAD LOADS:		WEIGHT OF THE STRUCTURE
ROOF LIVE LOADS:		20 PSF
FLOOR LIVE LOADS		
CLASSROOMS:		40 PSF
OFFICES:		50 PSF
CORRIDORS:		80 PSF
LOBBIES:		100 PSF
ASSEMBLY AREAS:		100 PSF
SHOP AREAS:		150 PSF
GROUND SNOW LOAD	Pg:	10 PSF
FLAT ROOF SNOW LOAD	Pf:	10 PSF
WIND SPEED FOR RISK CATEGORY II & EXPOSURE C	Vult:	115 MPH
	Vasd:	89 MPH
BUILDING RISK CATEGORY		II
WIND EXPOSURE CATEGORY		C
INTERNAL PRESSURE COEFFICIENT	GCpi:	±0.18
COMP. & CLADDING WIND PRESSURE	Pnet30:	SEE ASCE 7-16, TABLE 30. 7-2
SEISMIC IMPORTANCE FACTOR	Ie:	1.0
MAPPED SPECTRAL RESPONSE ACCELERATIONS	Ss:	1.190
	S1:	0.414
SITE CLASS		D
SPECTRAL RESPONSE COEFFICIENT	Sds:	0.812
	Sd1:	0.518
SEISMIC DESIGN CATEGORY		D
BASIC SEISMIC-FORCE-RESISTING SYSTEM		E. DUAL SYSTEM w/ INTERMEDIATE MOMENT FRAMES CAPABLE OF RESISTING 25% OF THE FORCES
(PER ASCE 7-16, TABLE 12. 2-1)		2. STEEL SPECIAL CONCENTRICALLY BRACE FRAMES
DESIGN BASE SHEAR	V:	0.14W
SEISMIC RESPONSE COEFFICIENT	Cs:	0.14
RESPONSE MODIFICATION FACTOR	R:	6
ANALYSIS PROCEDURE		EQUIVALENT LATERAL FORCE METHOD (PER ASCE 7-16, TABLE 12. 6-1 & SECT. 12.8)
SEISMIC ZONE PER A.C.A. 12-80-101 ET. SEQ.	ZONE:	3
CODES:		2021 ARKANSAS FIRE PREVENTION CODE A.C.A. 12-80-101 ET. SEQ. (ARKANSAS STATE LAW)

THE FOUNDATIONS AND STRUCTURAL FRAMING HAVE BEEN DESIGNED TO RESIST THE LOADS AND FORCES STATED ABOVE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2021 ARKANSAS FIRE PREVENTION CODE AND A.C.A. 12-80-101 ET. SEQ.

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JOB# 25-293 4/15/2026

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GENERAL NOTES
S002

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FOUNDATION PLAN
S101

PAD FOOTING SCHEDULE

TYPE	WIDTH	LENGTH	THICKNESS	REINFORCEMENT
PF400	4'-0"	4'-0"	1'-0"	(5) #5 EACH WAY (BOT.)
PF500	5'-0"	5'-0"	1'-0"	(6) #5 EACH WAY (BOT.)
PF502	5'-0"	5'-0"	2'-0"	(6) #5 EACH WAY (TOP & BOT)

FOUNDATION PLAN NOTES

#	NOTE
1	5" CONCRETE SLAB w/ #4 @ 16" O.C. EACH WAY ON PERIMETER RIGID INSULATION (SEE ARCH.), VAPOR BARRIER (SEE ARCH.), OVER 4" COMPACTED WASHED CRUSHED STONE
2	8" CONCRETE SLAB w/ (2) LAYERS OF #4 @ 16" O.C. EACH WAY ON VAPOR BARRIER ON PERIMETER RIGID INSULATION (SEE ARCH.), OVER 4" COMPACTED WASHED CRUSHED STONE
3	(2) #4X4'-0" IN SLAB (WHERE SHOWN)

REFER TO UNDERSLAB PLUMBING PLAN FOR FLOOR DRAIN LOCATIONS.

REFER TO ELECTRICAL PLANS FOR FLOOR BOX LOCATIONS.

1 FOUNDATION PLAN
1/8" = 1'-0"

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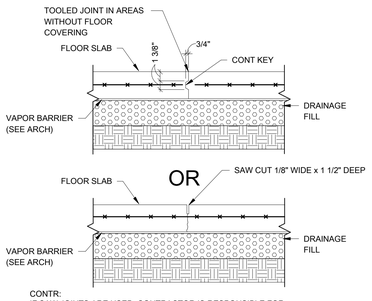
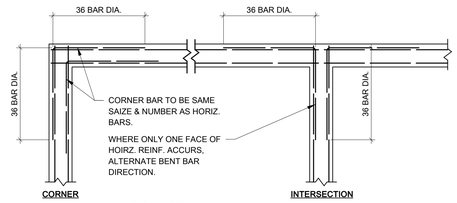


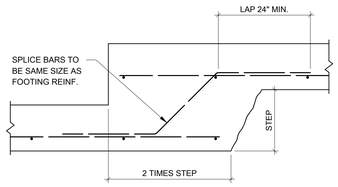
CONTR:
IF SAW JOINTS ARE USED, CONTRACTOR IS RESPONSIBLE FOR JOINTS CRACKING AS SHOWN ON PLAN AND DETAIL. SAWING JOINTS SHALL BEGIN AS SOON AS THE SURFACE IS FIRM ENOUGH SO THAT IT WILL NOT BE TORN OR DAMAGED BY THE BLADE. SLABS MUST BE SAWN ON SAME DAY SLAB IS POURED. DO NOT ALLOW SLAB TO CURE OVERNIGHT BEFORE SAWING.

1 CONTROL JOINT DETAIL
3/4" = 1'-0"

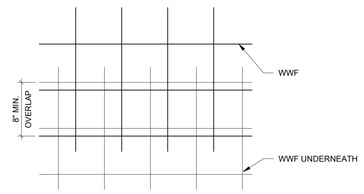


TYPICAL FOR:
CONCRETE WALLS
BEAMS
FOOTINGS
CONCRETE FILLED BONDBEAMS
THICKEND SLABS

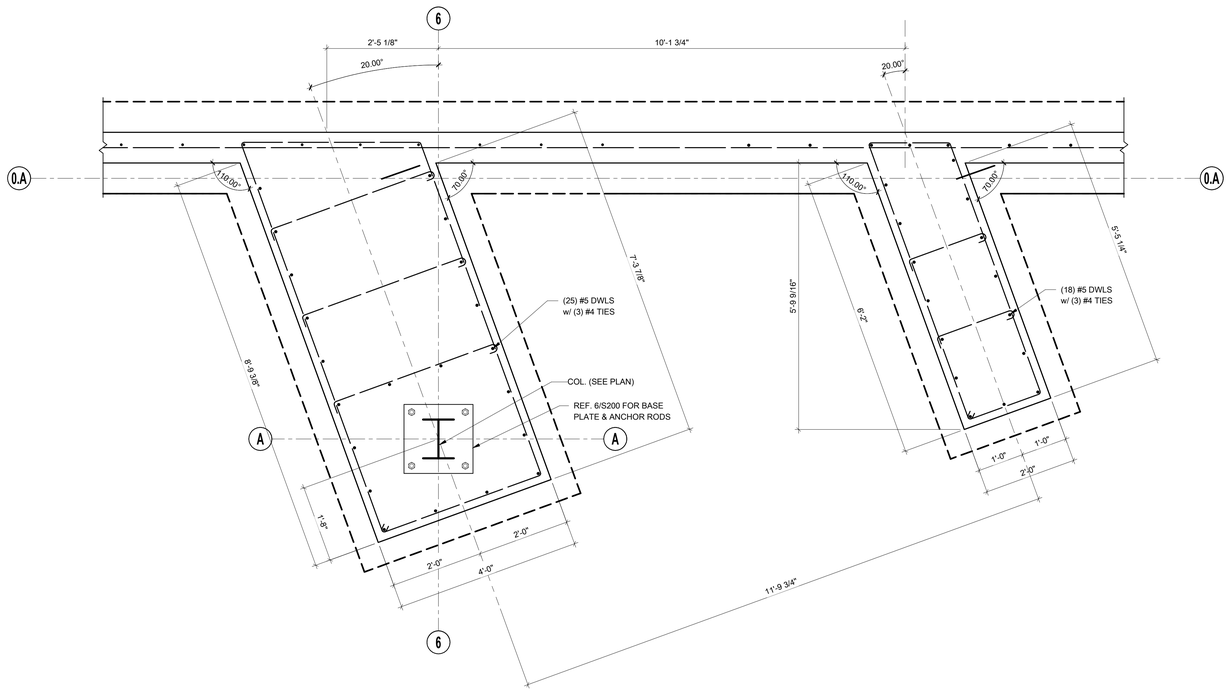
2 TYPICAL CORNER BAR DETIAL
3/4" = 1'-0"



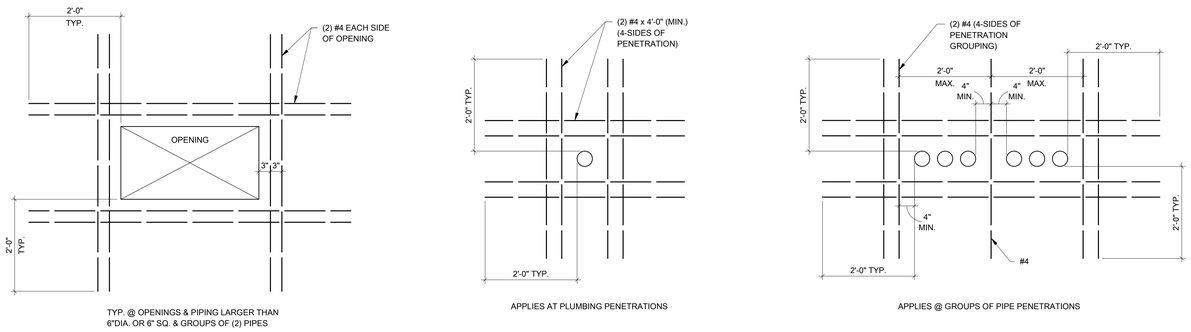
3 TYPICAL CONT. FOOTING STEP DETAIL
3/4" = 1'-0"



4 TYP. WWF OVERLAP
1 1/2" = 1'-0"



A PLAN DETAIL @ LARGE/SMALL PILASTER
3/4" = 1'-0"

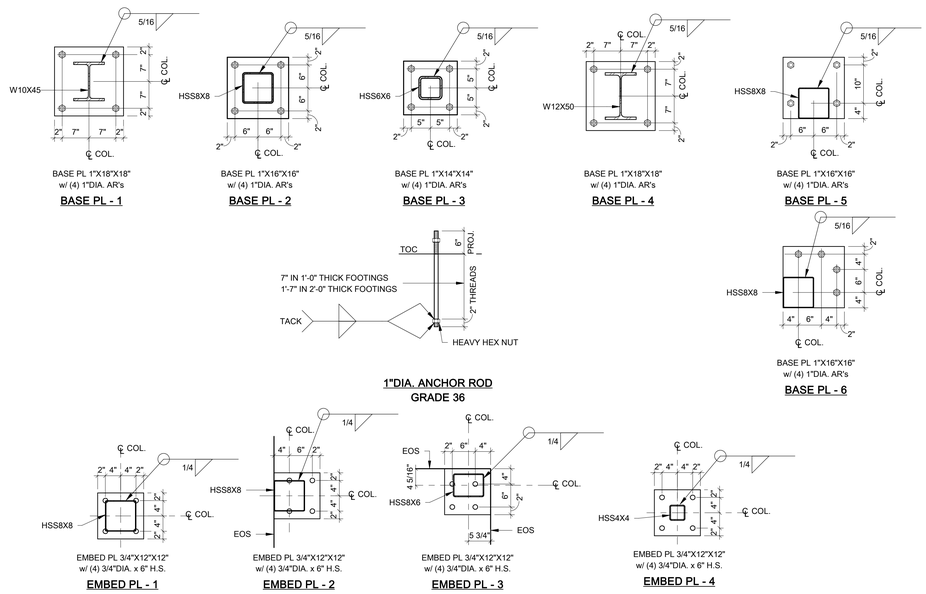


TYP. @ OPENINGS & PIPING LARGER THAN 6"DIA. OR 6" SQ. & GROUPS OF (2) PIPES

APPLIES AT PLUMBING PENETRATIONS

APPLIES @ GROUPS OF PIPE PENETRATIONS

5 TYP. REINF. @ SLAB OPENINGS & PIPE PENETRATIONS
3/4" = 1'-0"



6 BASE PLATE SCHEDULE
3/4" = 1'-0"

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FOUNDATION DETAILS
S200

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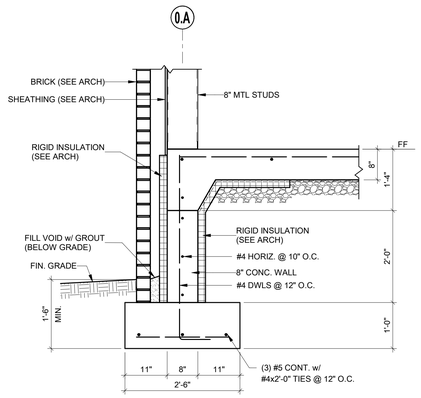
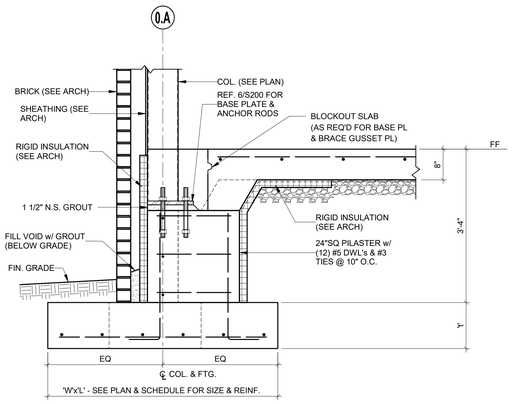


1 SECTION
3/4" = 1'-0"



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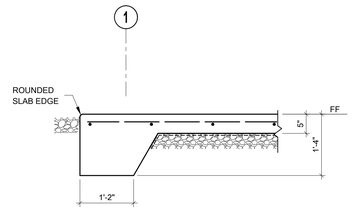

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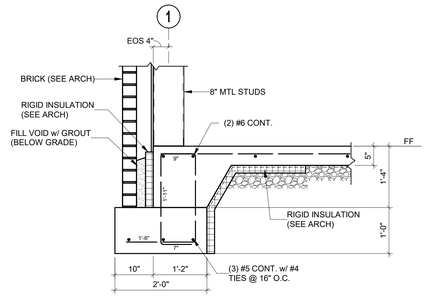
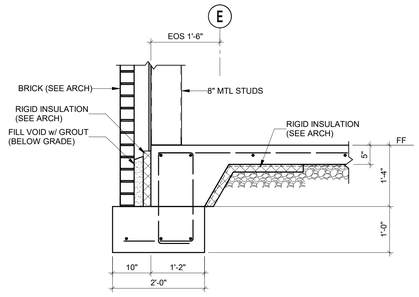
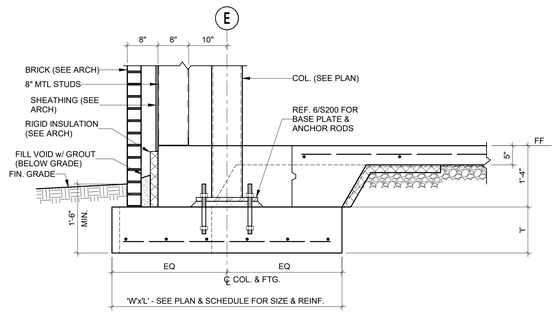


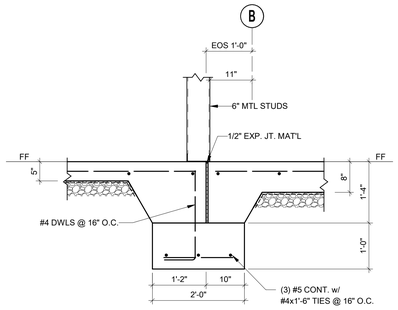
4 SECTION
3/4" = 1'-0"



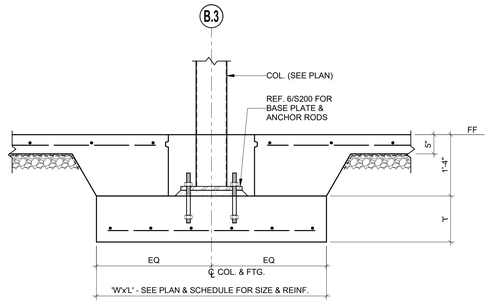
5 SECTION
3/4" = 1'-0"



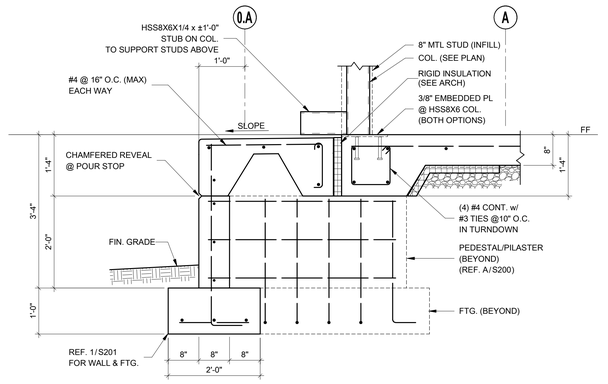
6 SECTION
3/4" = 1'-0"



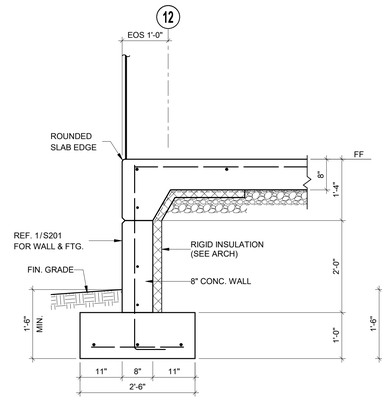
7 SECTION
3/4" = 1'-0"



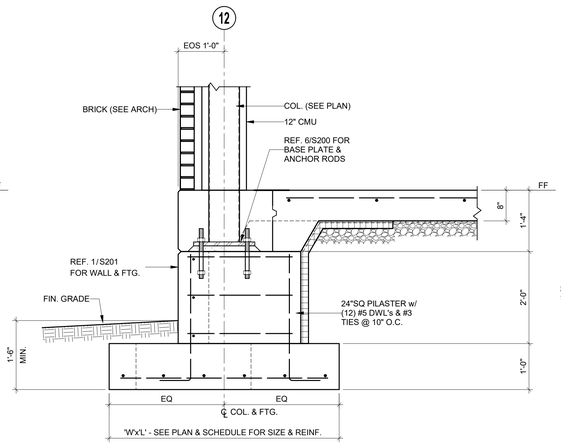
8 SECTION
3/4" = 1'-0"



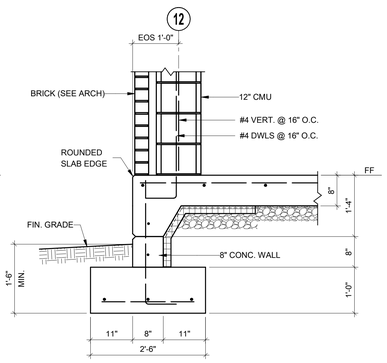
9 SECTION
3/4" = 1'-0"



10 SECTION
3/4" = 1'-0"



11 SECTION
3/4" = 1'-0"



12 SECTION
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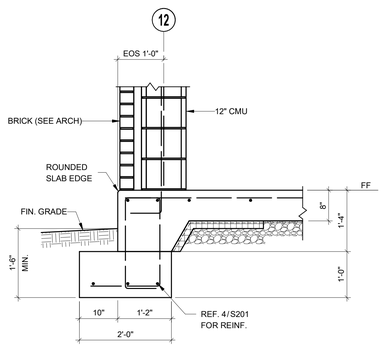

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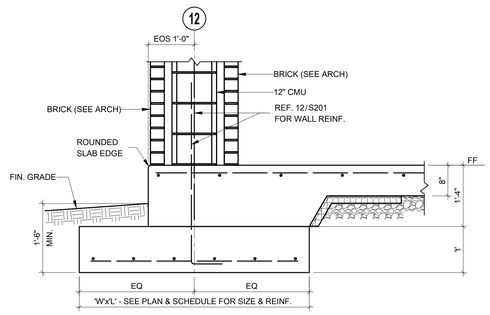

14 SECTION
3/4" = 1'-0"

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S201

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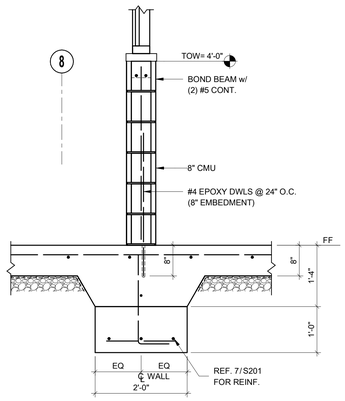

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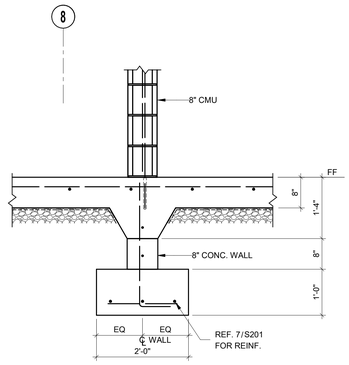

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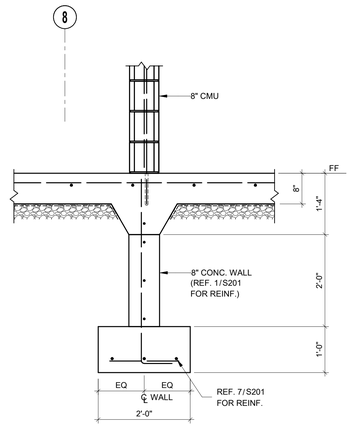

3 SECTION
3/4" = 1'-0"

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FOUNDATION DETAILS

S202

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FRAMING PLAN NOTES

#	NOTE
1	1 1/2" ACOUSTICAL METAL ROOF DECK
2	1 1/2" METAL ROOF DECK
3	NO BRIDGING AT DUCT RUNS

1 ROOF FRAMING PLAN
1/8" = 1'-0"

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FRAMING PLAN
S301

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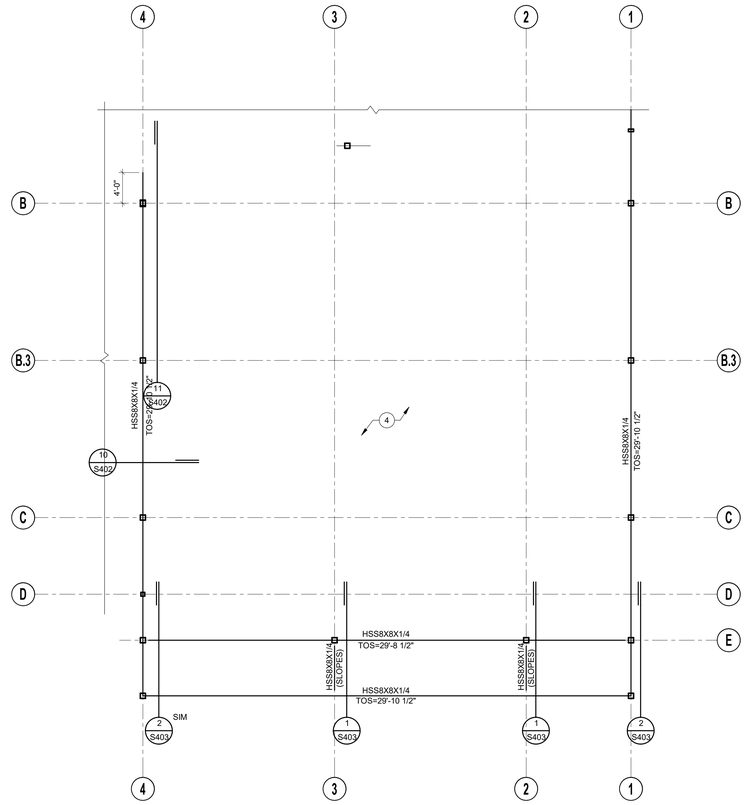

1 PARAPET FRAMING PLAN

1/8" = 1'-0"

FRAMING PLAN NOTES	
#	NOTE
4	SEE SHEET S301 FOR ROOF FRAMING BELOW

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FRAMING PLAN
S302

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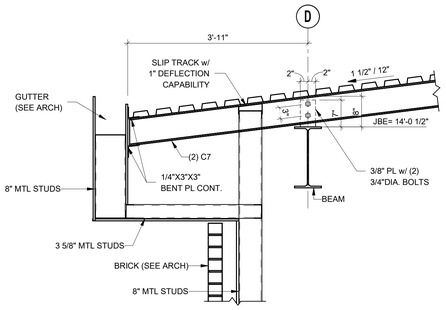
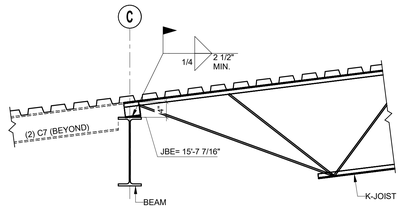
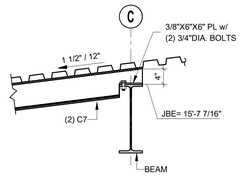


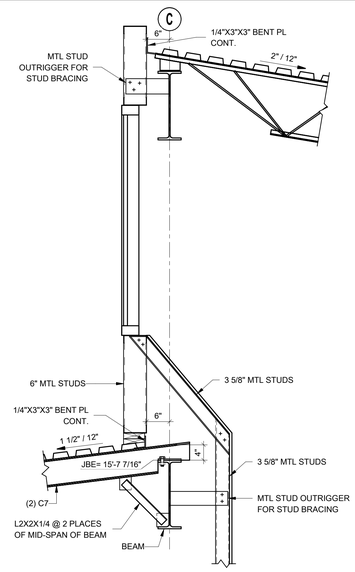
1 SECTION
3/4" = 1'-0"



2 SECTION
3/4" = 1'-0"



2A SECTION
3/4" = 1'-0"



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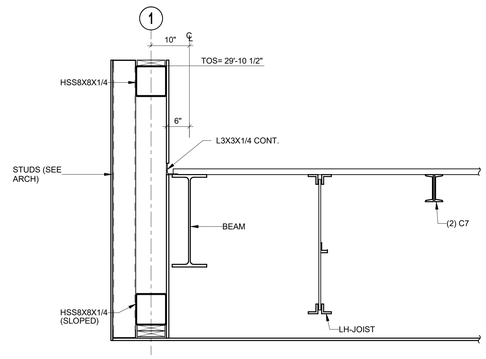

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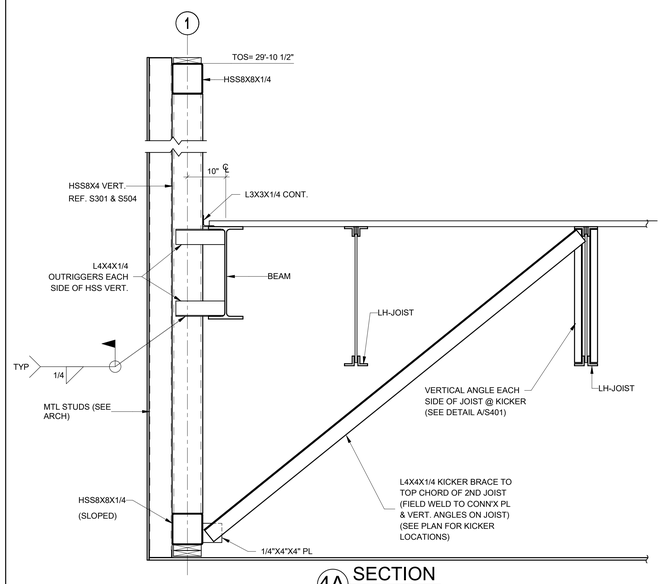
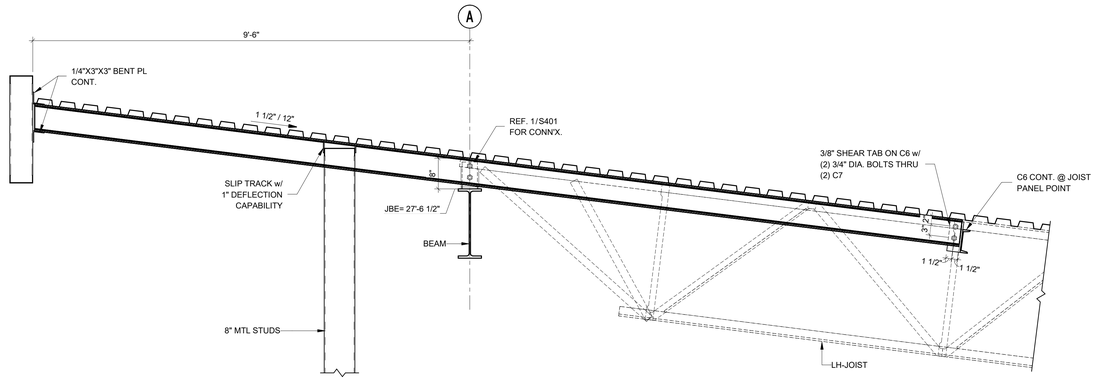
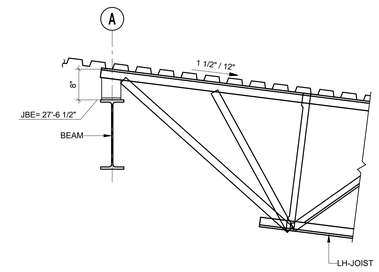


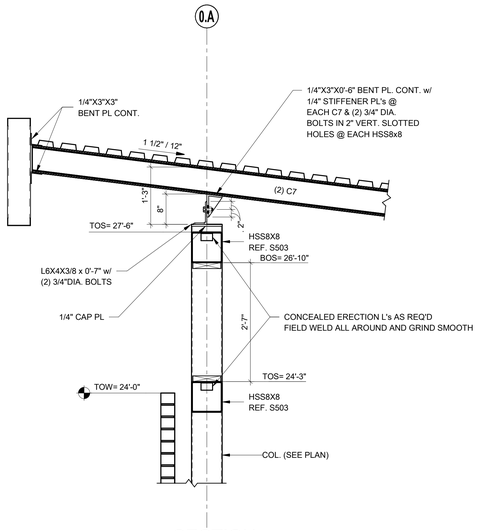
4A SECTION
3/4" = 1'-0"



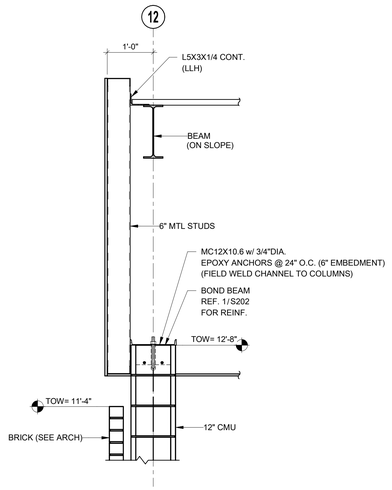
5 SECTION
3/4" = 1'-0"



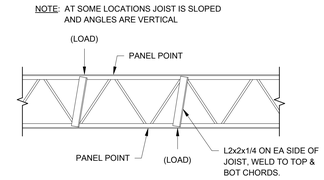
5A SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"

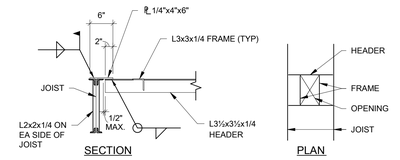


7 SECTION
3/4" = 1'-0"



NOTE: UNLESS OTHERWISE NOTED, CONCENTRATED LOADS OCCURING @ PLACES OTHER THAN JOIST PANEL POINTS SHALL BE SUPPORTED AS SHOWN

A CONCENTRATED LOAD ON JOIST DETAIL
3/4" = 1'-0"



NOTE: VERIFY EXACT NUMBER, SIZE & LOCATION OF OPENINGS w/ ARCH & MECH.

B OPENING IN ROOF DETAIL
3/4" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER
No. 8953

JOB# 25-293 4/15/2026

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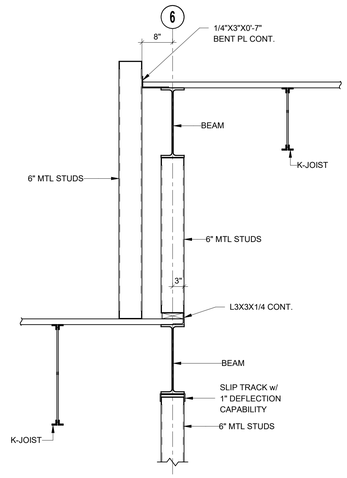
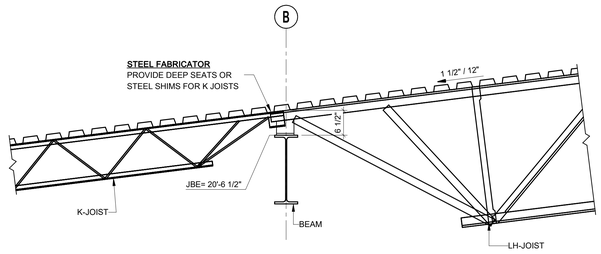


1 SECTION
3/4" = 1'-0"



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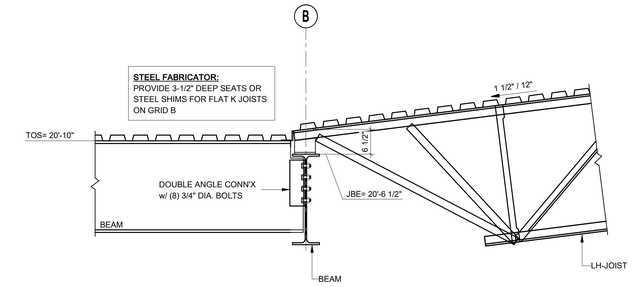

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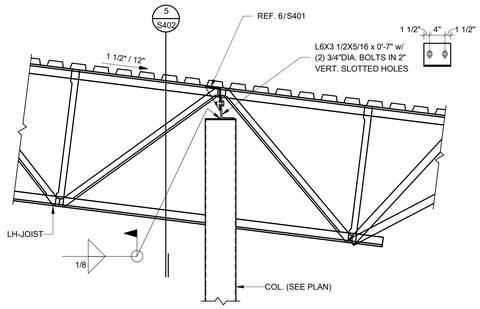
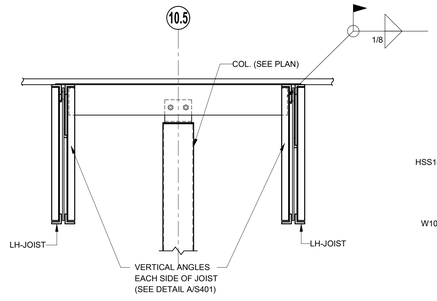
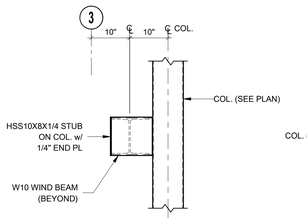
3/4" = 1'-0"



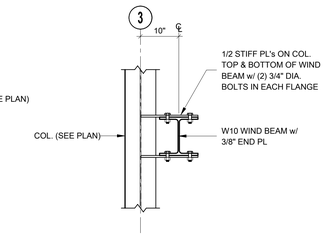
4 SECTION
3/4" = 1'-0"



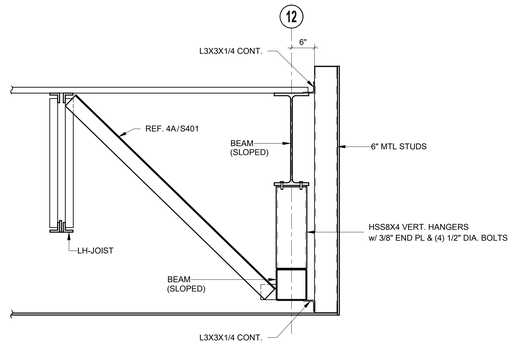
5 SECTION
3/4" = 1'-0"



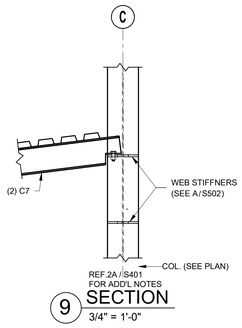
6 SECTION
3/4" = 1'-0"



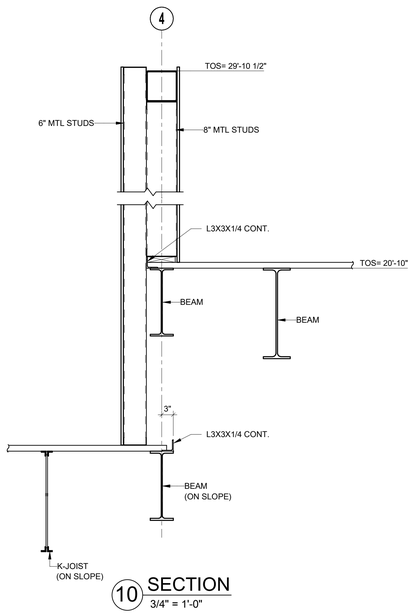
7 SECTION
3/4" = 1'-0"



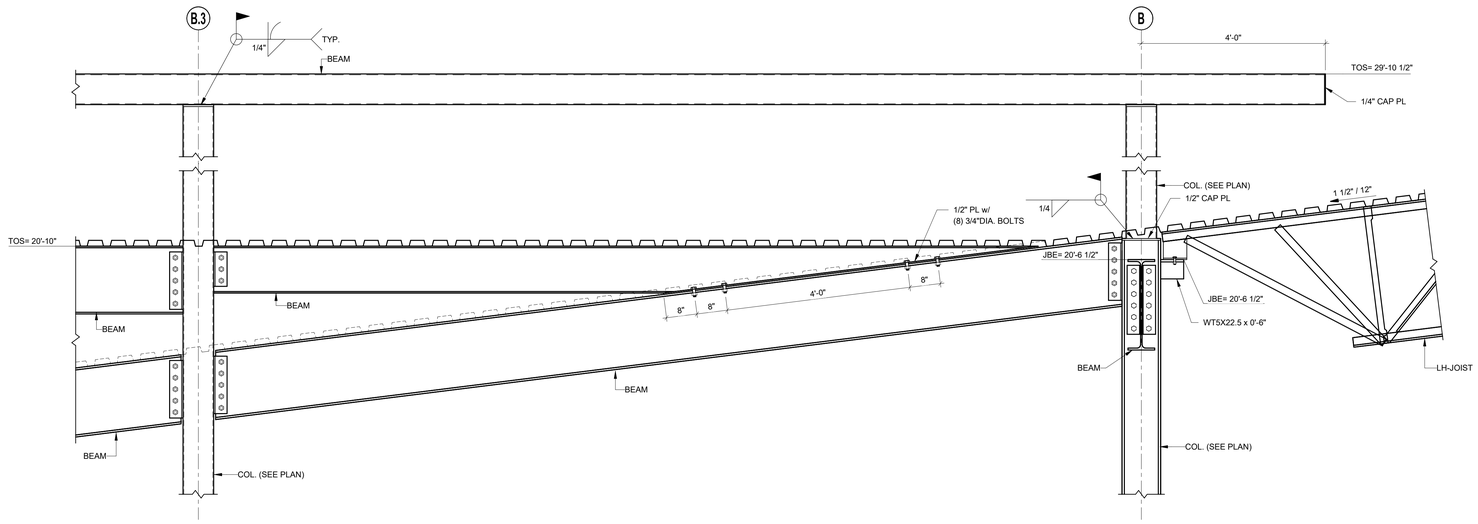
8 SECTION
3/4" = 1'-0"



9 SECTION
3/4" = 1'-0"



10 SECTION
3/4" = 1'-0"



11 SECTION
3/4" = 1'-0"

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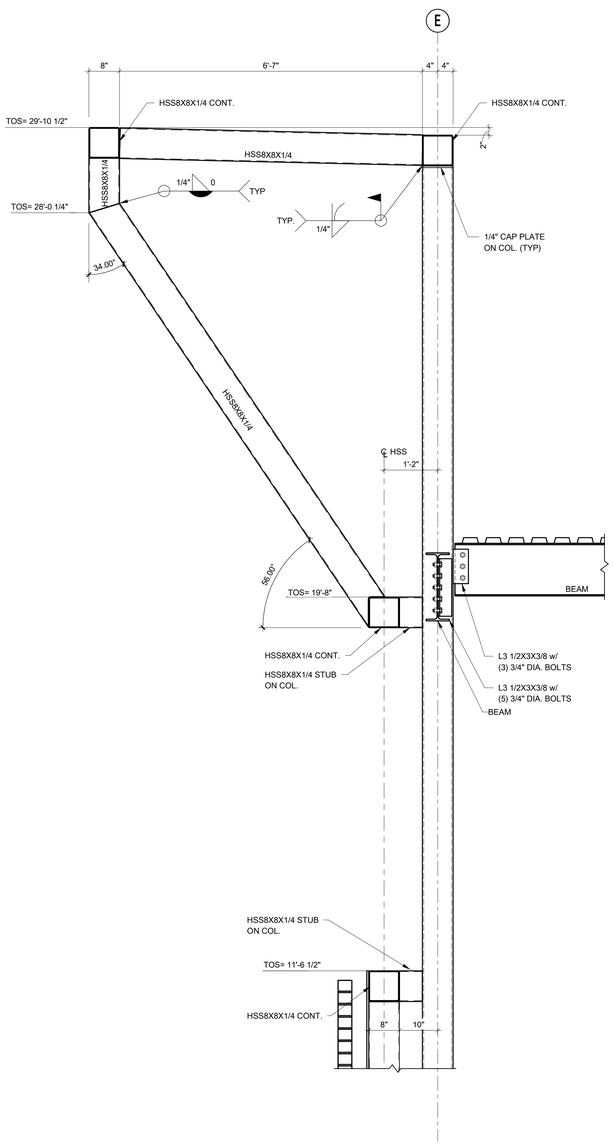
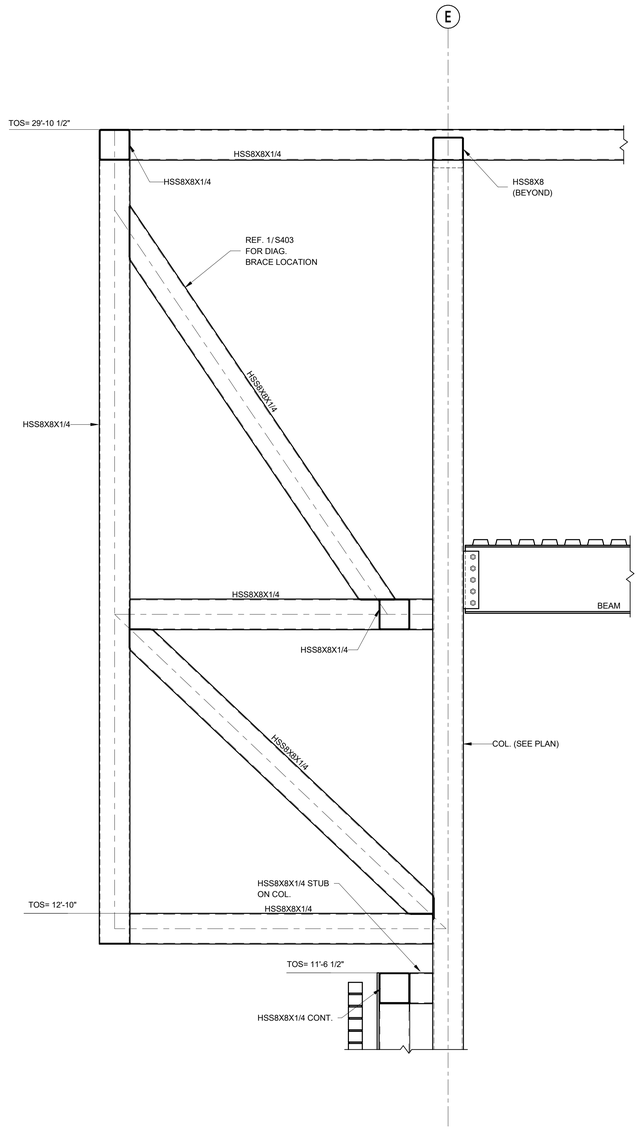


1 SECTION
3/4" = 1'-0"



2 SECTION
3/4" = 1'-0"

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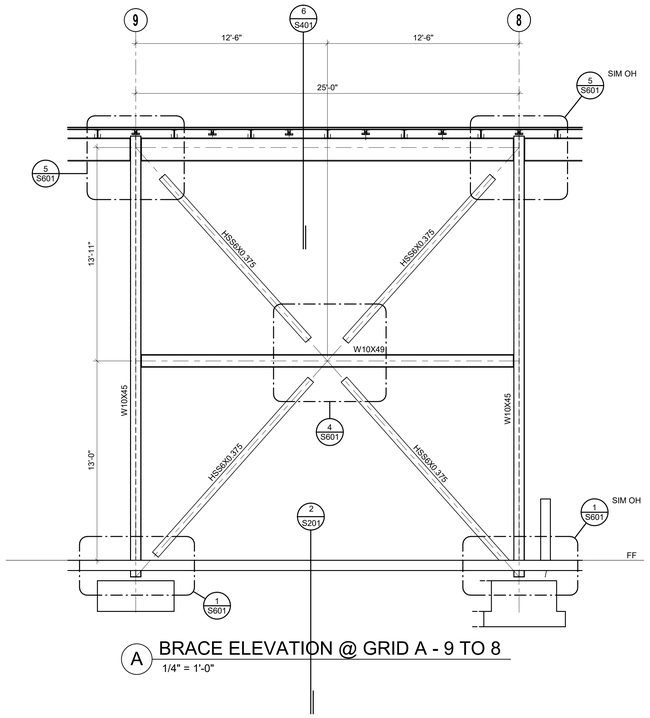
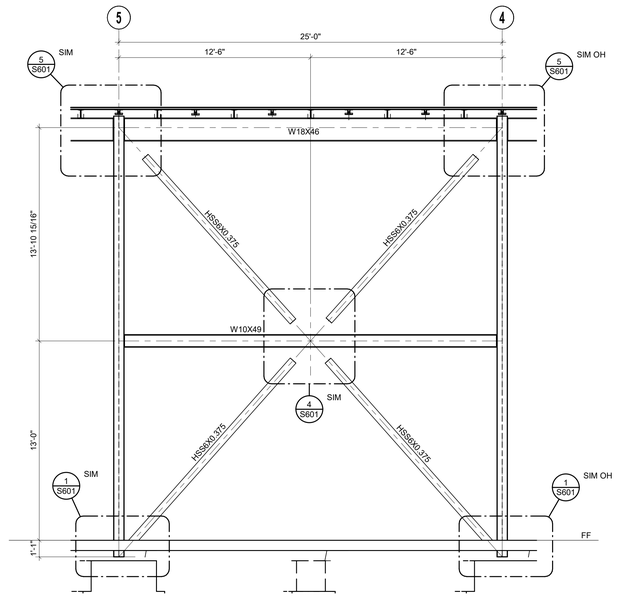
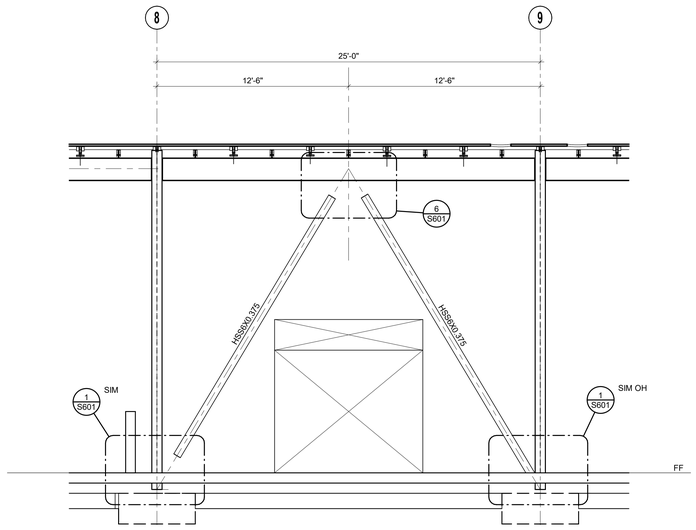


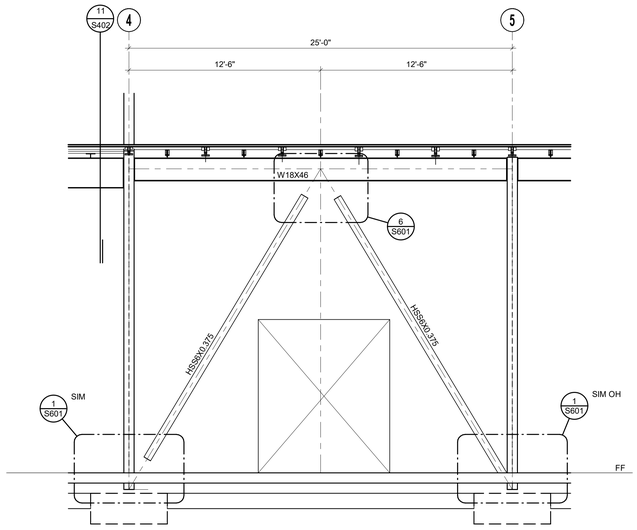
A BRACE ELEVATION @ GRID A - 9 TO 8
1/4" = 1'-0"



B BRACE ELEVATION @ GRID A - 5 TO 4
1/4" = 1'-0"



C BRACE ELEVATION @ GRID B - 8 TO 9
1/4" = 1'-0"



D BRACE ELEVATION @ GRID B - 4 TO 5
1/4" = 1'-0"

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JOB# 25-293 4/15/2026

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S501

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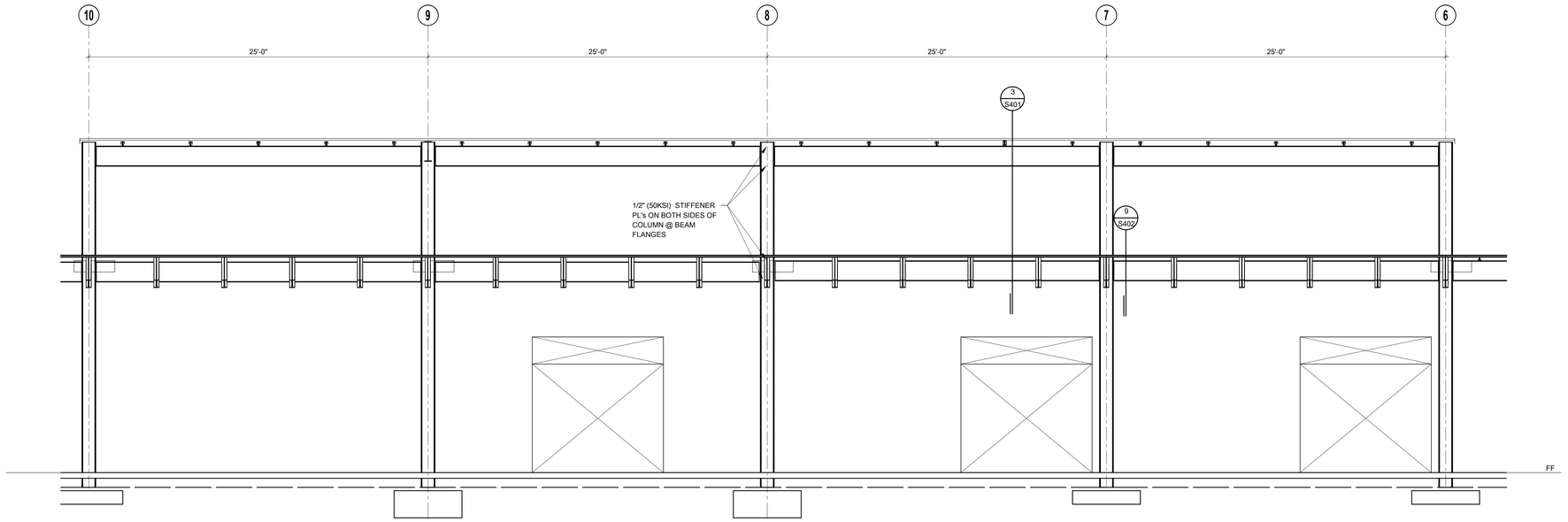
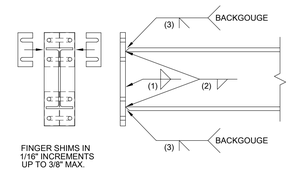


A SECTION
1/4" = 1'-0"

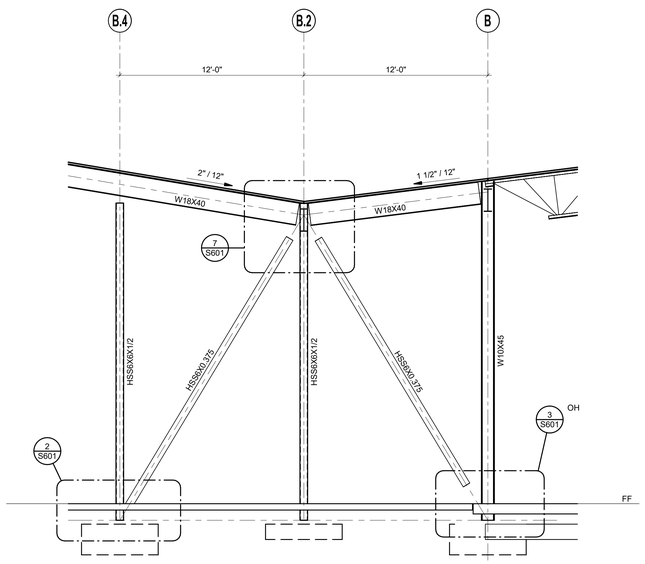
BOLTED END PL CONN SCHEDULE						
BEAM SIZE	BOLT GAGE	PLATE SIZE "W"	PLATE SIZE "L"	PLATE SIZE "t"	BOLT SIZE	REMARKS
W18X40	3 1/2"	7"	2'-2"	1"	(8) 3/4"DIA. A325	

BEAM TO END-PLATE WELDING PROCEDURES
- PREPARE THE FLANGES OF THE BEAM WITH A 45 DEGREE, FULL DEPTH BEVEL
- FIT UP THE END-PLATE AND BEAM WITH A MINIMUM ROOT OPENING
- PREHEAT THE SPECIMENS AS REQ'D BY AWS SPECIFICATION
- PREPARE THE SURFACES FOR WELDING AS REQ'D BY AWS SPECIFICATIONS
- PLACE THE WEB WELDS (1)
- PLACE THE 5/16" BACKING FILLET WELDS ON THE BEAM WEB SIDE OF THE FLANGES (2)
- BACKGOUGE THE ROOT OF THE BEVEL TO REMOVE ANY CONTAMINANTS FROM THE 5/16" BACKER FILLET WELDS (3)
- PLACE THE FLANGE GOOVE WELDS (AWS TC-U4b-GF)

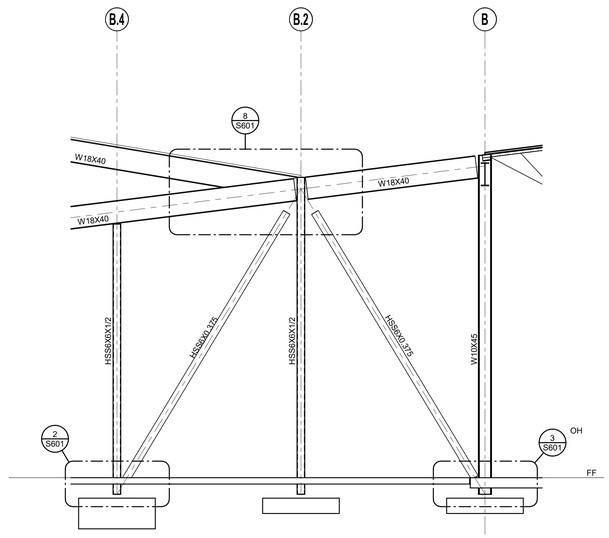


FINGER SHIMS IN 1/16" INCREMENTS UP TO 3/8" MAX.

BEAM TO END-PLATE DETAIL
3/4" = 1'-0"



B BRACE ELEVATION @ GRID 8 - B.4 TO B
1/4" = 1'-0"



C BRACE ELEVATION @ GRID 8 - B.4 TO B
1/4" = 1'-0"

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S502

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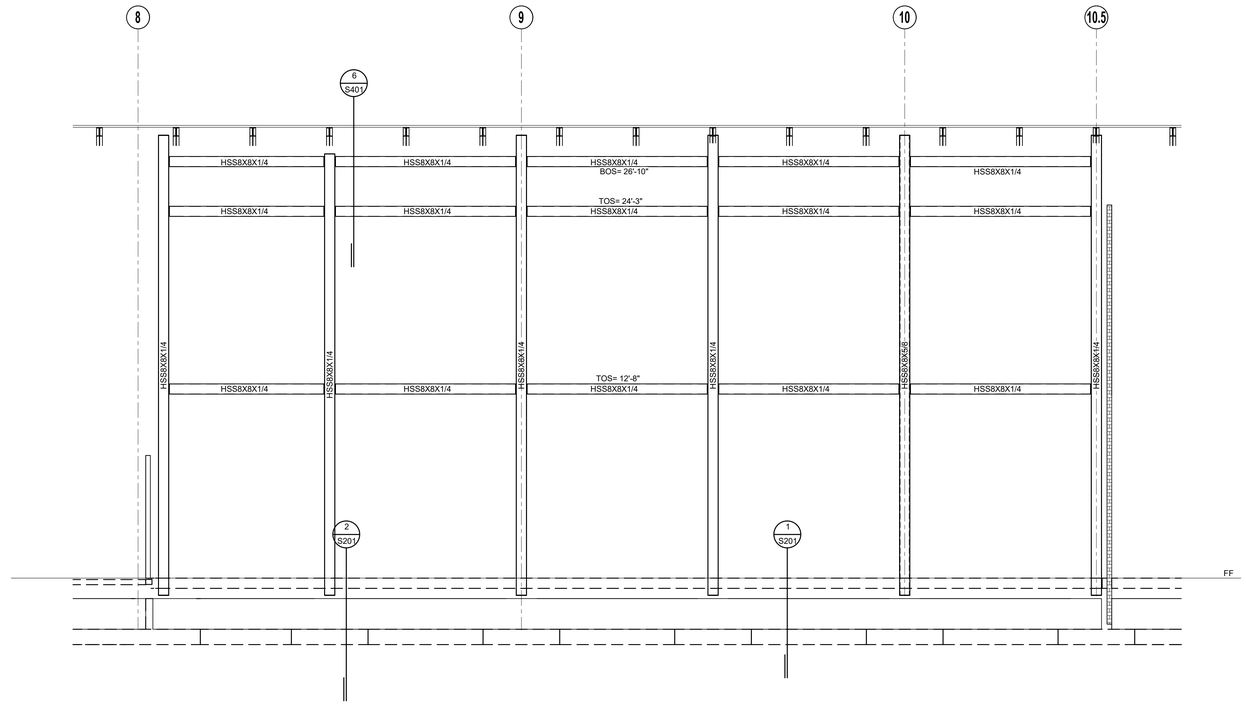

A ELEVATION
1/4" = 1'-0"

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S503

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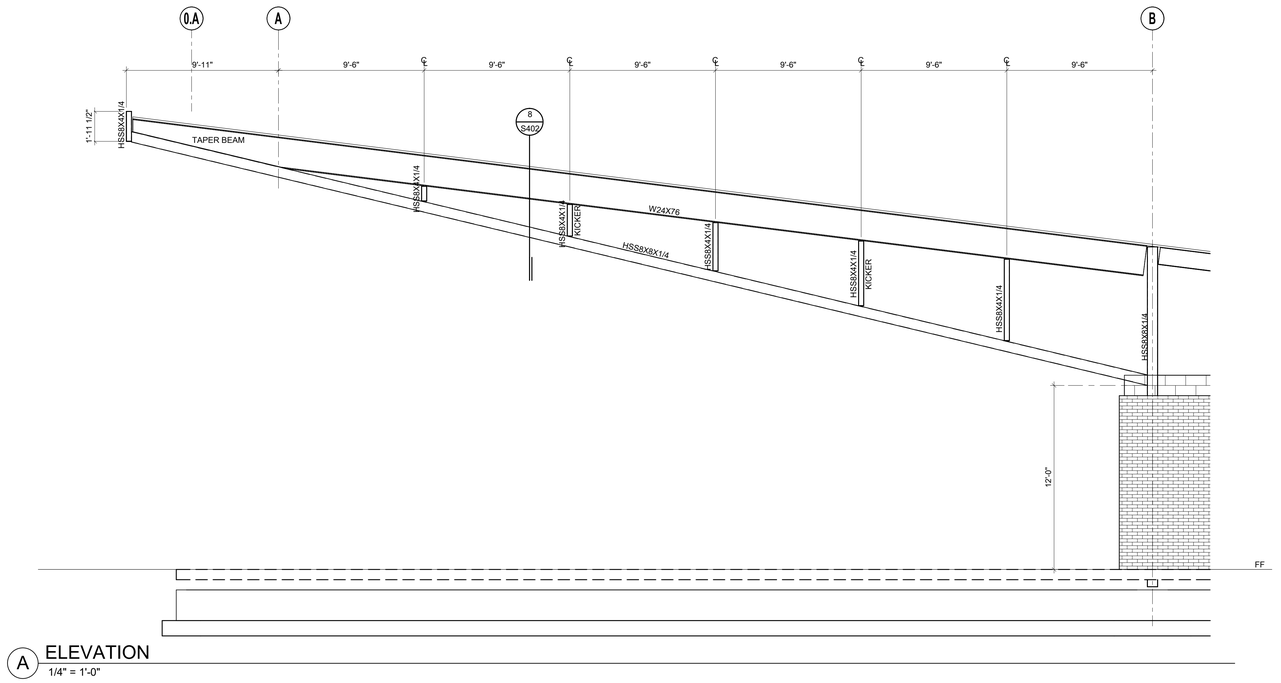
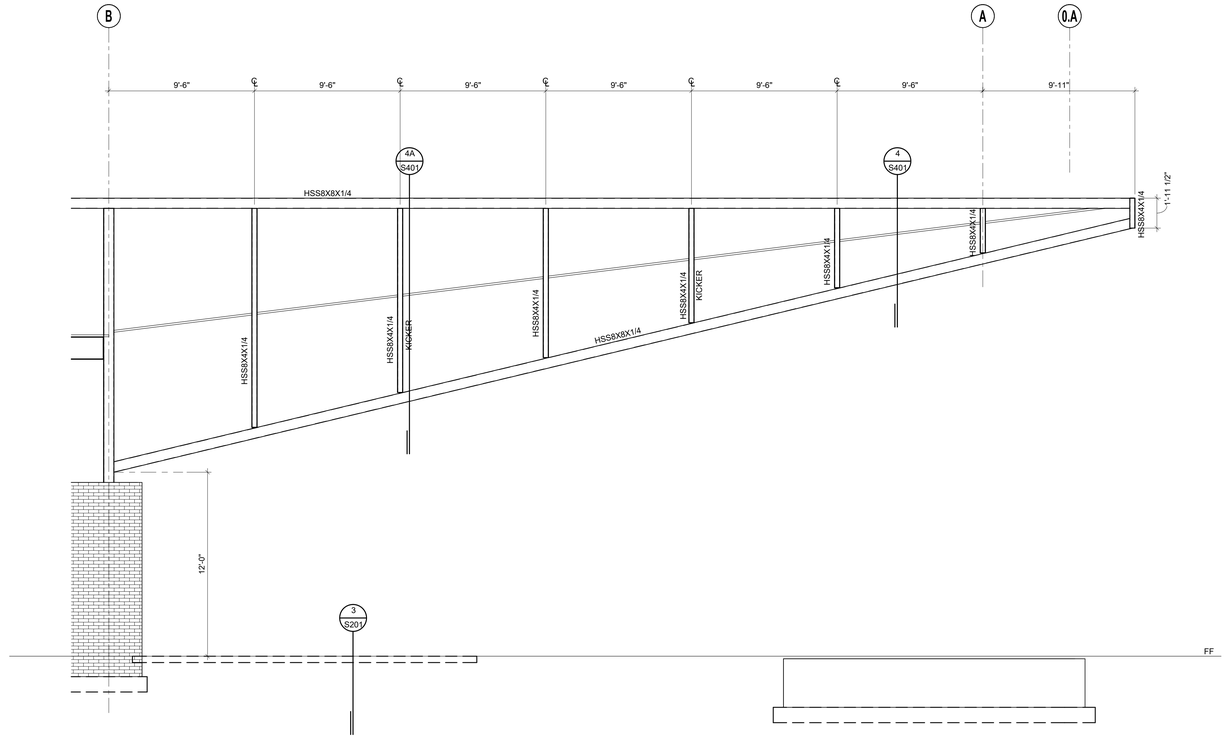


A ELEVATION
1/4" = 1'-0"



B SECTION
1/4" = 1'-0"

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CERTIFICATE OF AUTHORIZATION — ENGINEERING CONSULTANTS, INC. — No. 26 — ARKANSAS ENGINEERING

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 8953 — PLANT, ROGER

JOB# 25-293 4/15/2026

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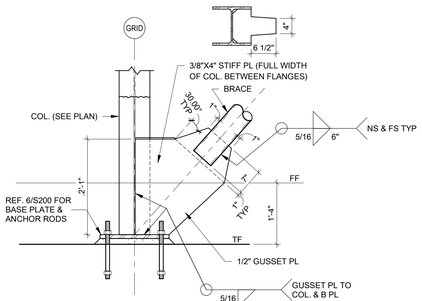
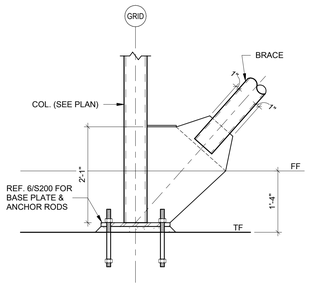
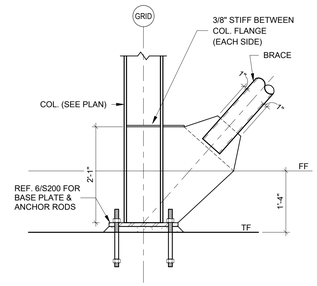


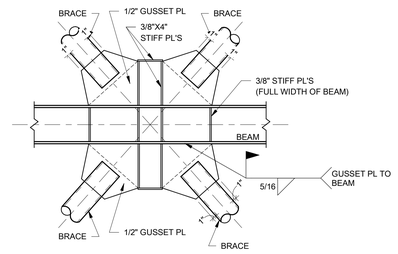
1 SECTION
3/4" = 1'-0"



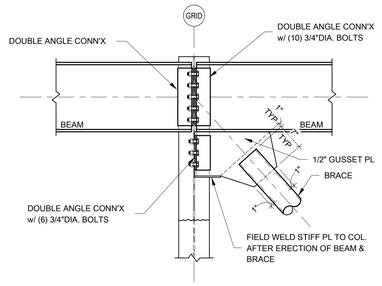
2 SECTION
3/4" = 1'-0"



3 SECTION
3/4" = 1'-0"



4 SECTION
3/4" = 1'-0"



5 SECTION
3/4" = 1'-0"

6 SECTION
3/4" = 1'-0"

7 SECTION
3/4" = 1'-0"

8 SECTION
3/4" = 1'-0"

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CERTIFICATE OF AUTHORIZATION ENGINEERING CONSULTANTS, INC. No. 26 ARKANSAS ENGINEER

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 8953 J. GRANT JORDAN

JOB# 25-293 4/15/2026

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING
JONESBORO, ARKANSAS

REVISIONS:

STRUCTURAL ISSUE SET
04-15-2026

BRACE DETAILS
S601

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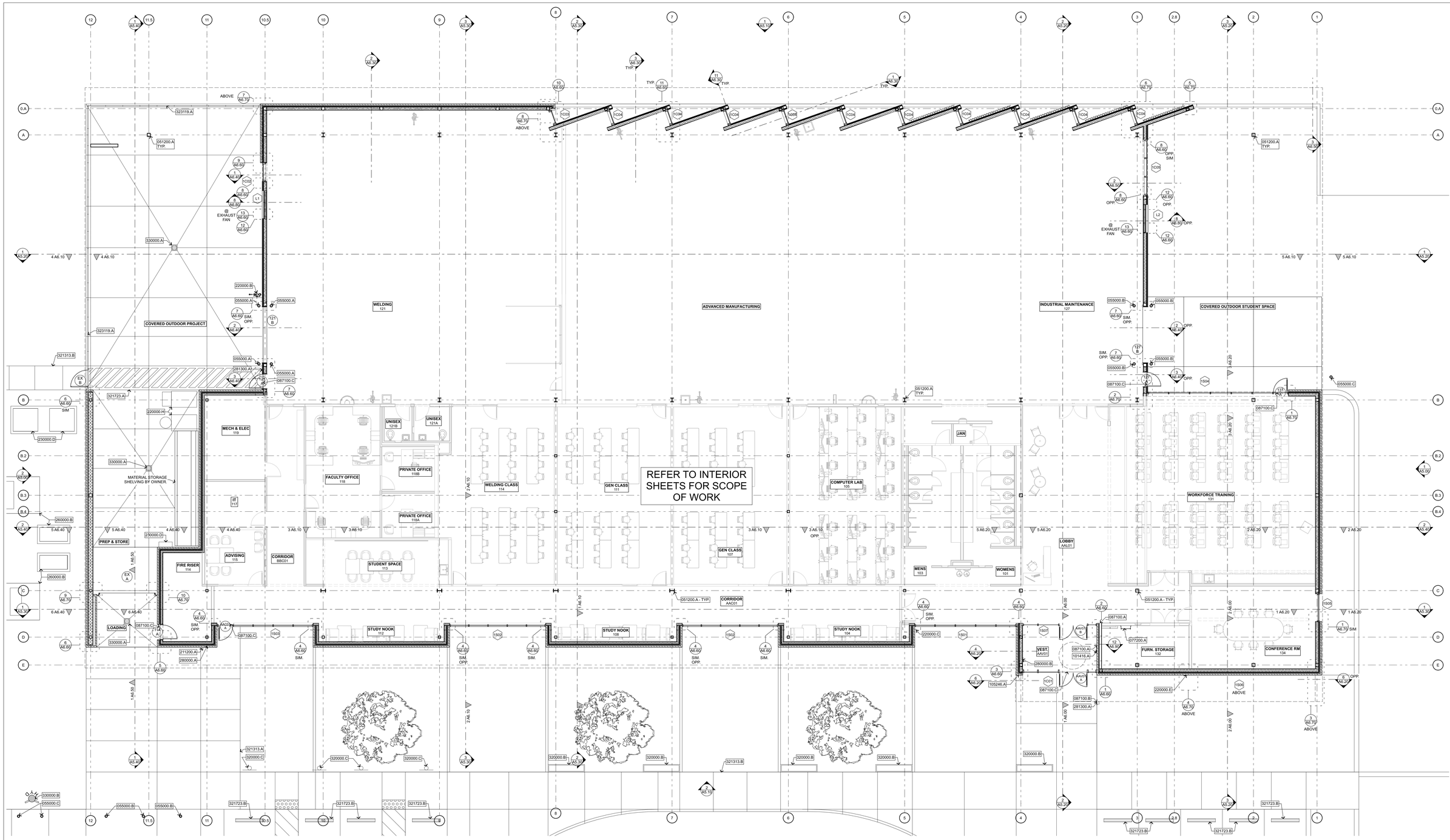

1 FIRST FLOOR

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

05 METALS	
051200.A	STRUCTURAL STEEL MEMBER - RE: STRUCT.
055000.A	6" DIA. CONCRETE FILLED STEEL PIPE BOLLARD. PAINT. REFER TO DETAIL 8/A6.100
055000.B	6" x 48" REMOVABLE PIPE BOLLARD EQUAL TO IDEAL SHIELD 6" INTERNAL LOCKING BOLLARD. GALVANIZED AND PAINTED. COLOR BY ARCHITECT. FOOTING SIM. TO DETAIL 8/A6.100. INSTALL PER MANUFACTURER RECOMMENDATIONS.
055000.C	SITE BOLLARD. REFER TO CIVIL. PAINT.
07 THERMAL AND MOISTURE PROTECTION	
077200.A	ROOF ACCESS HATCH AND LADDER.
08 OPENINGS	
087100.A	ADA AUTOMATIC DOOR OPERATOR BUTTON - RECESSED WALL MOUNTED.
087100.B	ADA AUTOMATIC DOOR OPERATOR BUTTON - RECESSED BOLLARD MOUNTED
087100.C	ALUMINUM DOOR THRESHOLD - WIDTH AS NECESSARY TO COVER JOINT BETWEEN SLABS. SET IN FULL BED OF SEALANT.
10 SPECIALTIES	
101416.A	1'-4"W X 2'-8"T ALUMINUM BUILDING PLAQUE. CONCEALED MOUNTED.
105246.A	RECESSED KNOX BOX MOUNTED @ 5'-0" A.F.F. FINISH: ALUMINUM
21 FIRE SUPPRESSION	
211200.A	FIRE DEPARTMENT CONNECTION
22 PLUMBING	
220000.B	EMERGENCY EYE/ FACE WASH W/ SHOWER - RE: MEP
220000.C	GAS ENTRANCE. REFER TO PLUMBING & CIVIL. PIPE SHALL PENETRATE EXTERIOR WALL 1'-0" A.F.F. MAXIMUM. PIPE SHALL BE PAINTED TO MATCH BRICK VENEER WHERE EXPOSED TO VIEW.
220000.E	OVERFLOW ROOF DRAIN NOZZLE. REFER TO MEP FOR SIZING AND BUILDING ELEVATIONS FOR MOUNTING HEIGHT.
220000.H	AIR COMPRESSOR. REFER TO MEP
23 HVAC	
230000.D	CONDENSING UNIT ON CONCRETE PAD. REFER TO MEP AND CIVIL
26 ELECTRICAL	
260000.B	ELECTRICAL EQUIPMENT

28 ELECTRONIC SAFETY & SECURITY	
280000.A	FIRE ALARM STROBE
280000.B	FIRE ALARM RECESSED ANNUNCIATOR PANEL
281300.A	CARD READER
32 EXTERIOR IMPROVEMENTS	
320000.B	SITE BENCH. REF: LANDSCAPE FOR DETAILS.
320000.C	ADA PARKING SIGNAGE. REF: CIVIL/LANDSCAPE
321313.A	CAST IN PLACE CONCRETE PAVING - RE: CIVIL / LANDSCAPE.
321313.B	CAST IN PLACE CONCRETE SIDEWALK - RE: CIVIL/ LANDSCAPE.
321723.A	PAVEMENT MARKINGS - REF: LIFE SAFETY PLAN. COLOR BY ARCHITECT.
321723.B	WHEEL STOP - RE: CIVIL
323119.A	DECORATIVE METAL GUARDRAIL. CLEAR ANODIZED ALUMINUM FINISH
33 UTILITIES	
330000.A	STORMWATER AREA DRAIN. SLOPE PAVEMENT TO DRAIN REF: CIVIL
330000.B	FIRE HYDRANT. REF: CIVIL

GLAZING FRAME KEY:

1CM6 — 2 1/2" X 7 1/2" - ALUMINUM CURTAIN WALL SYSTEM - PREFINISHED, EXTERIOR, THERMALLY BROKEN, CAPTURED, REINFORCED AS REQUIRED. FINISH: CLEAR ANODIZED.

1SM6 — 2" X 4 1/2" - ALUMINUM STOREFRONT SYSTEM - PREFINISHED, INTERIOR, THERMALLY BROKEN. FINISH: CLEAR ANODIZED.

FLOOR PLAN LEGEND:

- NEW STUD WALL CONSTRUCTION
- NEW MASONRY WALL CONSTRUCTION
- NEW CONCRETE WALL CONSTRUCTION

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REVISIONS:

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EXTERIOR FLOOR PLAN
A2.00

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5/18/2026

Andrew Harold Wells - Architect AR #4256
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1/8"=1'-0" A1

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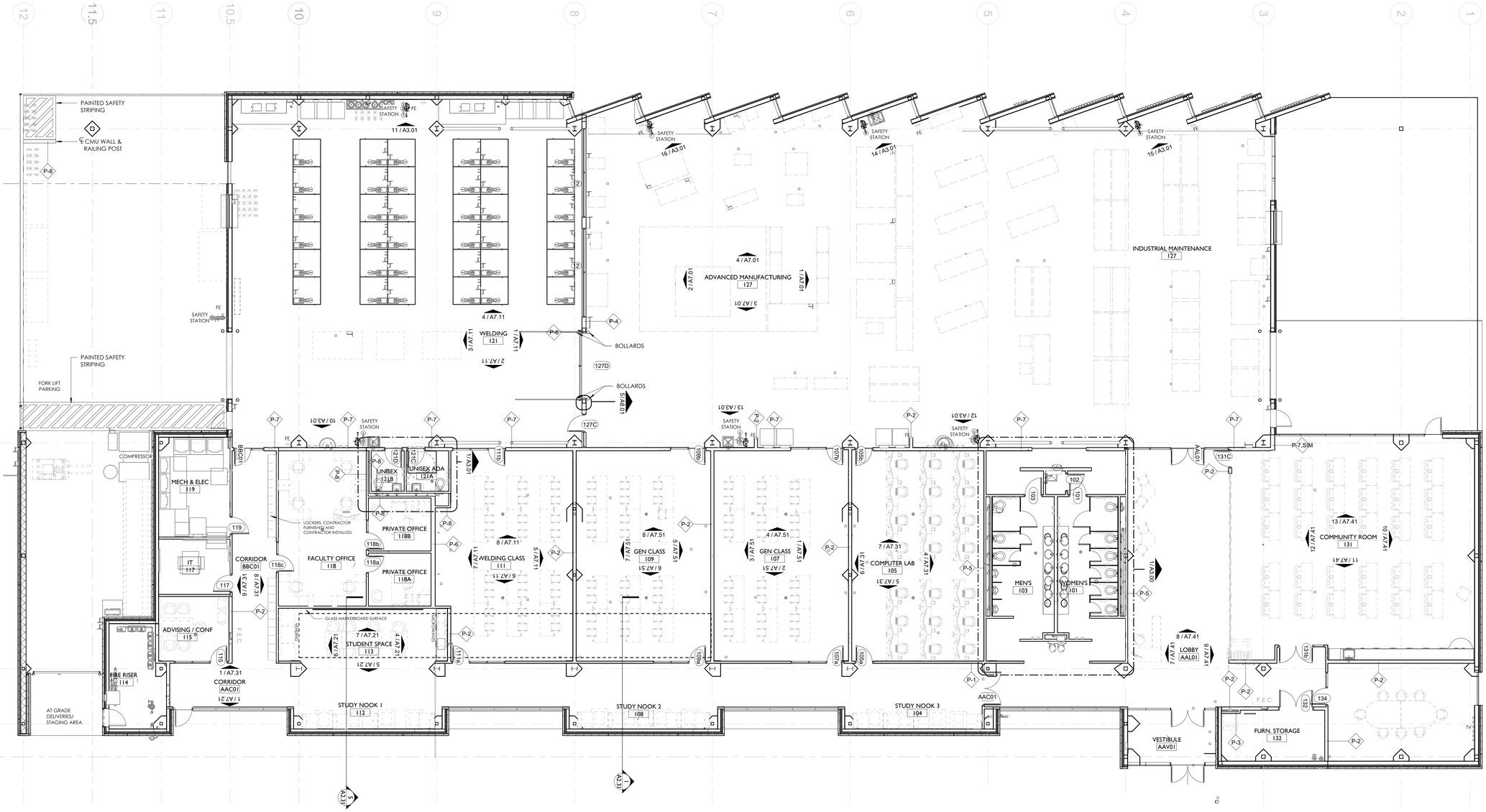
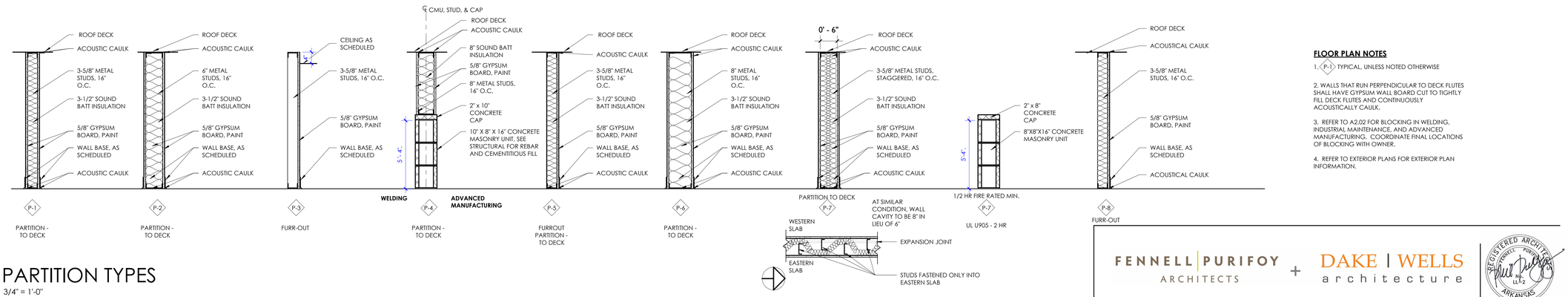


FIRST FLOOR

1/8" = 1'-0"



PARTITION TYPES

3/4" = 1'-0"

FLOOR PLAN NOTES

1. (P-1) TYPICAL, UNLESS NOTED OTHERWISE

2. WALLS THAT RUN PERPENDICULAR TO DECK FLUTES SHALL HAVE GYPSUM WALL BOARD CUT TO TIGHTLY FILL DECK FLUTES AND CONTINUOUSLY ACOUSTICALLY CAULK.

3. REFER TO A2.02 FOR BLOCKING IN WELDING, INDUSTRIAL MAINTENANCE, AND ADVANCED MANUFACTURING. COORDINATE FINAL LOCATIONS OF BLOCKING WITH OWNER.

4. REFER TO EXTERIOR PLANS FOR EXTERIOR PLAN INFORMATION.

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REGISTERED ARCHITECT FENNELL PURIFOY No. 11512 ARKANSAS 5.18.26

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INTERIOR FLOOR PLAN

A2.01

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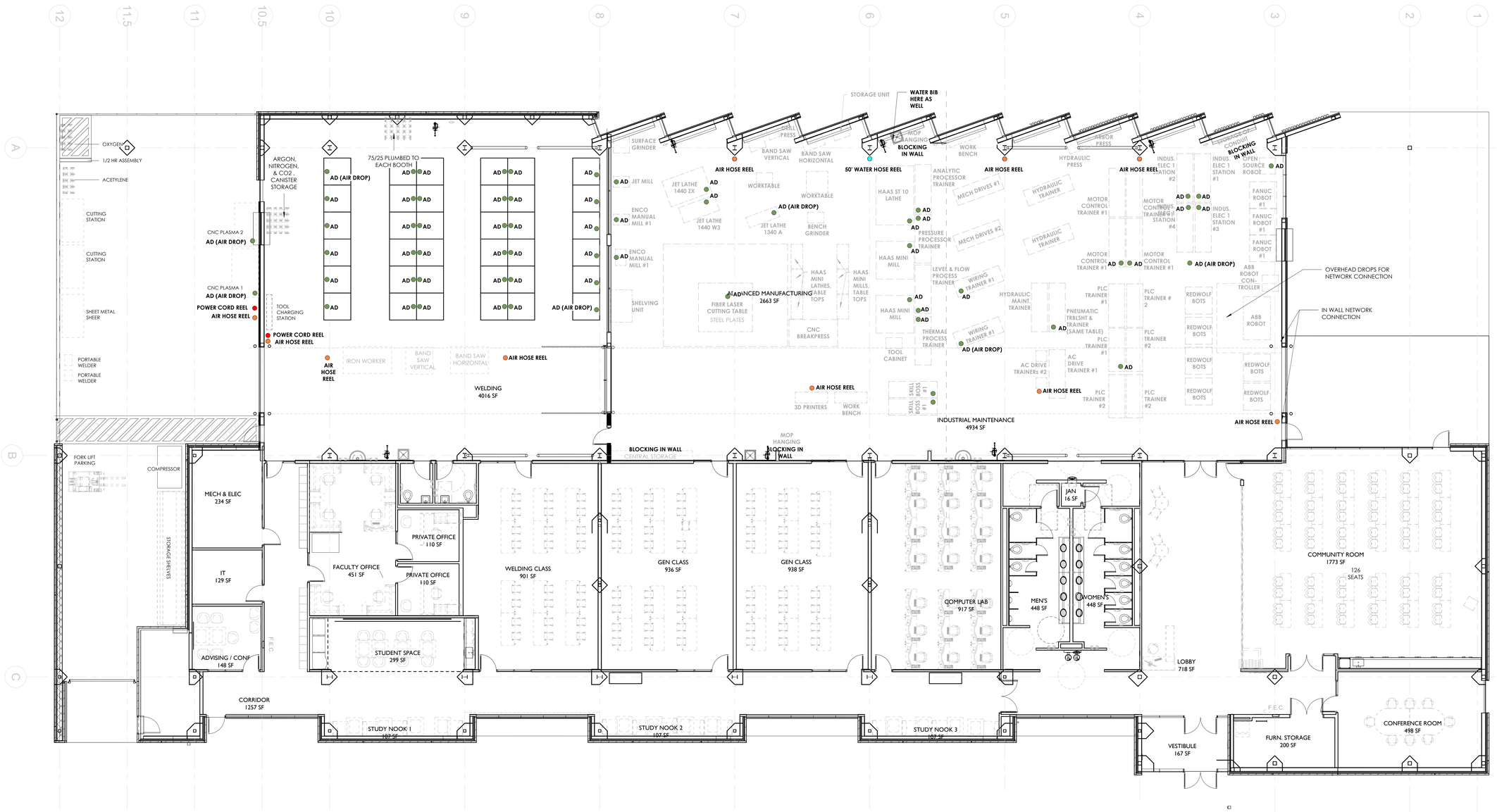

EQUIPMENT LAYOUT FOR REFERENCE ONLY

1/8" = 1'-0"

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REGISTERED ARCHITECT FENNELL PURIFOY No. 12172 ARKANSAS 5.18.26

REVISIONS:

EQUIPMENT LAYOUTS - FOR REFERENCE ONLY 100% CONSTRUCTION DOCUMENTS
05-18-2026

A2.02

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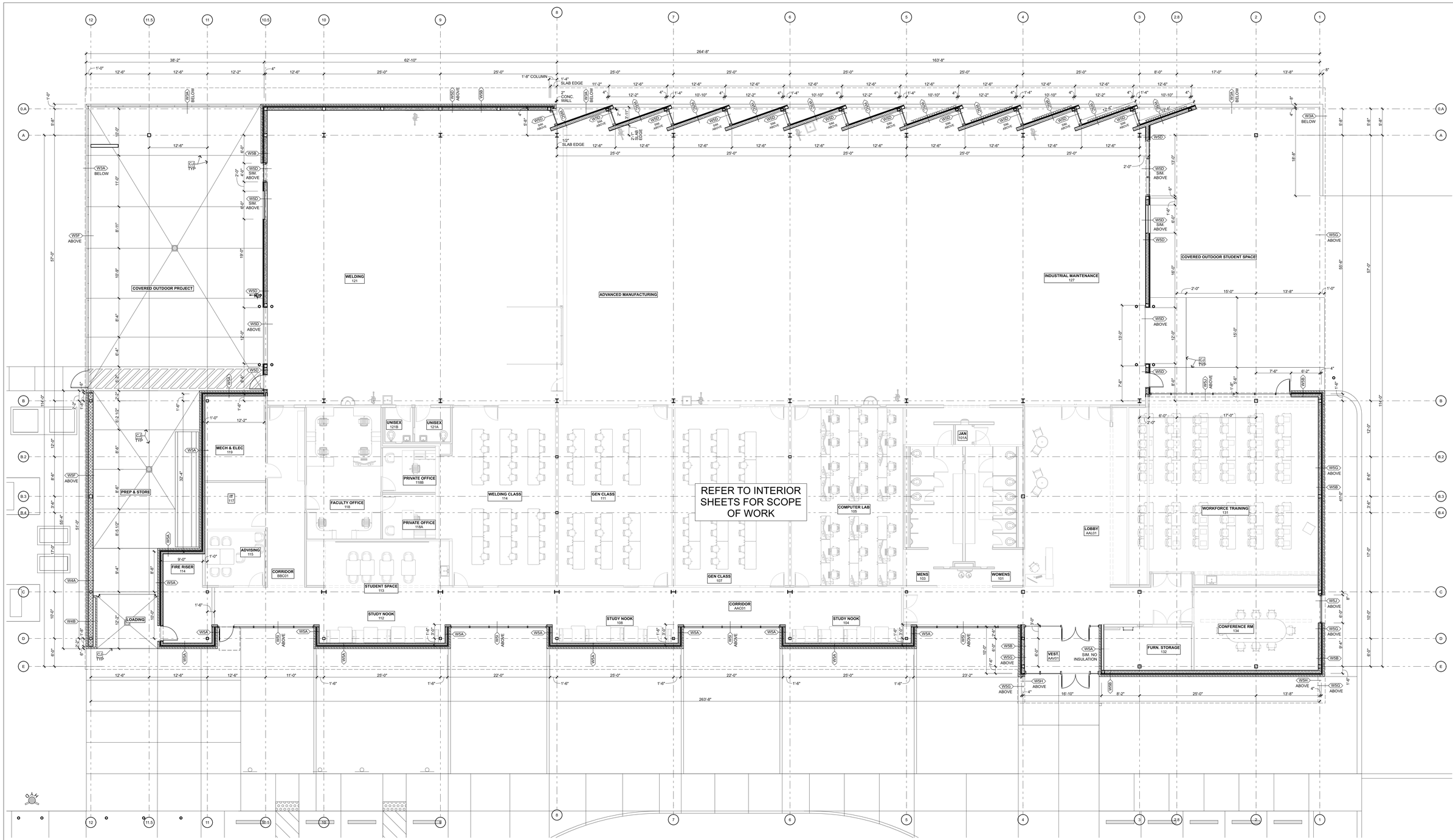

1 FIRST FLOOR
SCALE: 1/8" = 1'-0"

COMPONENT TYPE
SPECIFICATION DIVISION OF CONSTRUCTION
SPECIFIC CONSTRUCTION
(OPTIONAL)

W 4 A 1

W: WALL
P: PARTITION
R: ROOF
C: CEILING
F: FLOOR

CONSTRUCTION TYPE LEGEND

WALL TYPES:

DIVISION 05

W5A: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5B: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5C: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5D: METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5E: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
METAL PANEL (TYPE 3)

W5F: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
5/8" TREATED PLYWOOD SHEATHING
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

WALL TYPES:

DIVISION 05

W5G: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
2.6" COMPOSITE INSULATION PANEL
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5H: DIRECT APPLIED FINISH SYSTEM - TEXTURE TYPE 2.
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD

W5I: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5J: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

WALL TYPES:

DIVISION 03

W3A: 8" ARCHITECTURALLY FINISHED CAST-IN-PLACE CONCRETE WALL
(FACE EXPOSED TO VIEW ONLY)
WATER-PROOFING (REF. SECTION DETAILS FOR LOCATION)

NOTE: PROVIDE CONTINUOUS DAMP-PROOFING BELOW GRADE ON FINISHED FACE SIDE. REF. SECTION DETAILS.

DIVISION 04

W4A: BRICK VENEER
AIR SPACE
12" CMU

W4B: BRICK VENEER
AIR SPACE
12" CMU
AIR SPACE
BRICK VENEER

FLOOR PLAN LEGEND:

NEW STUD WALL CONSTRUCTION
NEW MASONRY WALL CONSTRUCTION
NEW CONCRETE WALL CONSTRUCTION

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

Andrew Harold Wells - Architect AR #4256
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5/18/2020

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JONESBORO, ARKANSAS

REVISIONS:

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05-18-2026

EXTERIOR DIMENSION PLAN
A2.10

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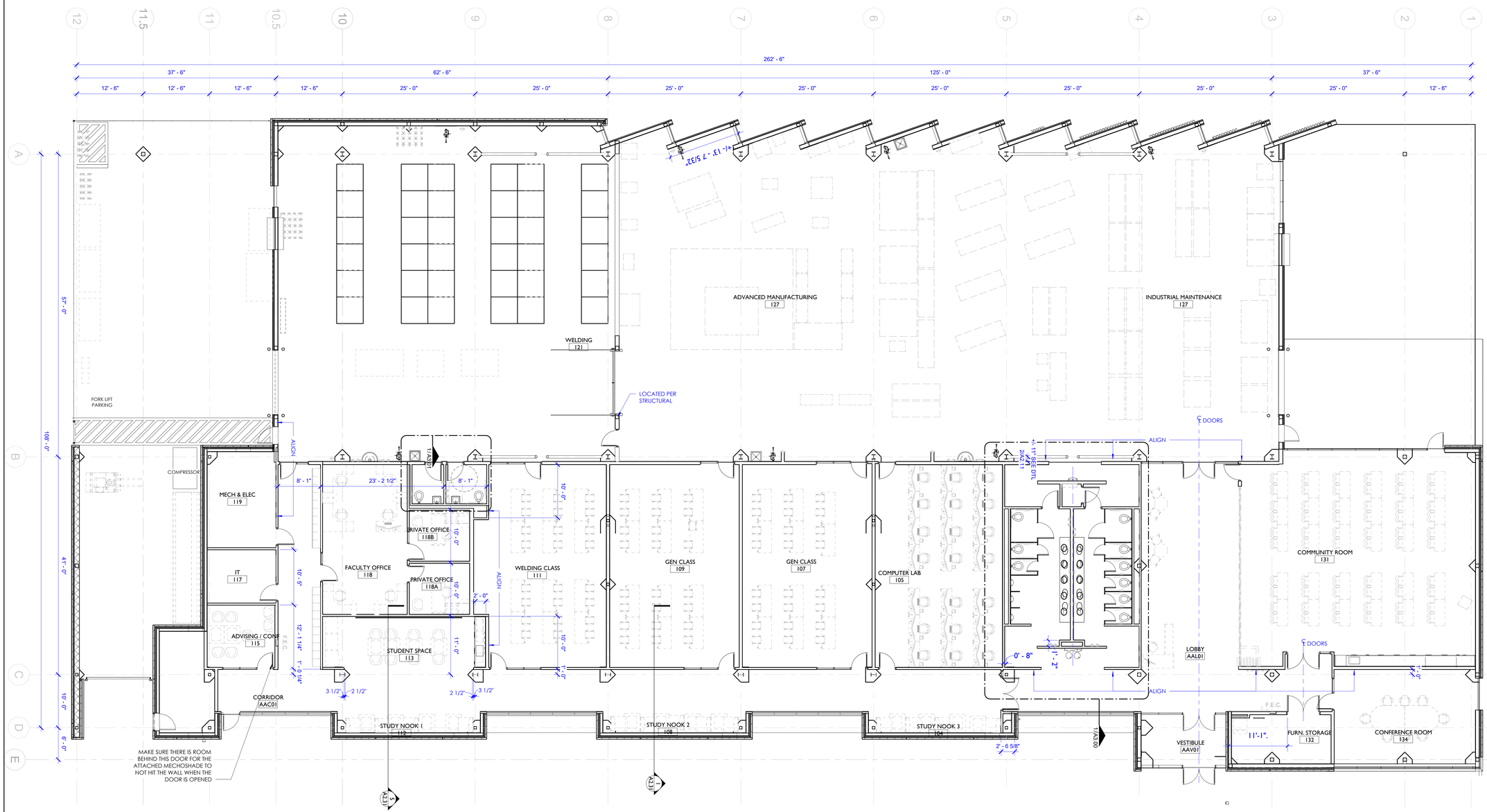
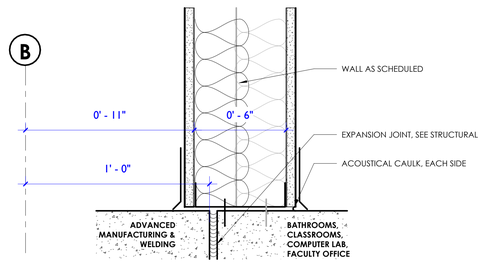


FIRST FLOOR DIMENSION

1/8" = 1'-0"



2 STUD PLACEMENT

3" = 1'-0"

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REGISTERED ARCHITECT — FENNELL PURIFOY — No. 11112 — ARKANSAS — 5.18.26

REVISIONS:

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05-18-2026

INTERIOR DIMENSION PLAN

A2.11

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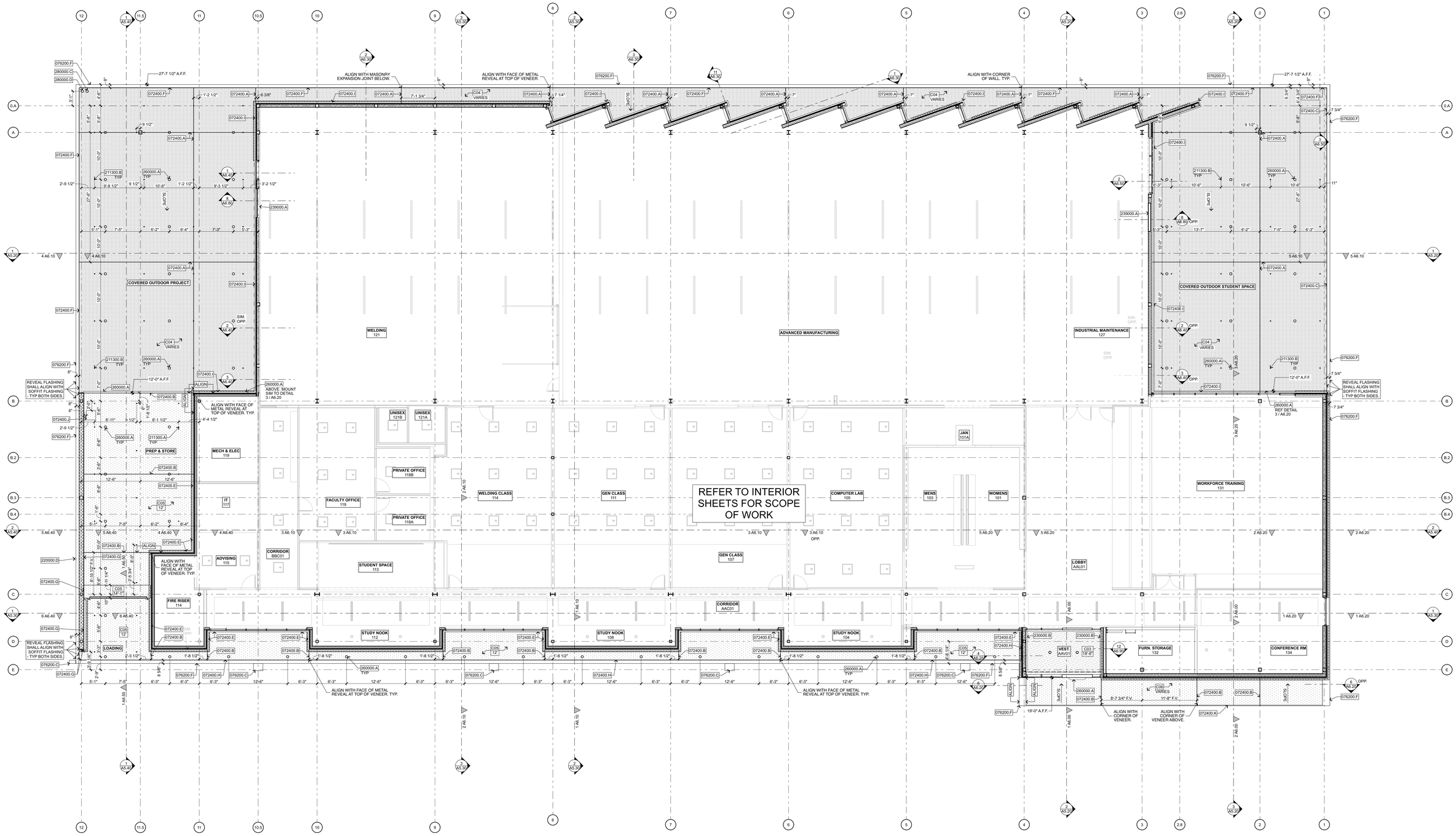

1 EXTERIOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

GENERAL CEILING PLAN NOTES:

DIMENSIONS

1. LIGHTING FIXTURES ARE DIMENSIONED TO CENTER OF FIXTURE, U.N.O.
2. REFER TO INTERIOR ELEVATIONS, BUILDING SECTIONS,AND BUILDING ELEVATIONS FOR MOUNTING HEIGHT OF WALL MOUNTED LIGHTS.
3. REF. REFLECTED CEILING PLANS FOR CEILING HEIGHTS. HEIGHTS ARE MEASURED FROM FINISH FLOOR UNLESS NOTED OTHERWISE.

ACOUSTIC CEILING TILE SYSTEMS

1. ACOUSTIC CEILING TILES TO BE CENTERED IN ROOMS - TYP. U.N.O. CEILING TILE BORDER CUTS SHALL BE GREATER THAN FOUR INCHES IN WIDTH - TYP.
2. DOUBLE GRIDS ALONG THE WALL TRACK WILL NOT BE PERMITTED.
3. LOCATE SPRINKLER HEADS, EXIT SIGNS, CEILING STROBES, LIGHT FIXTURES, AUDIO-VISUAL DEVICES, SECURITY DEVICES, SMOKE DETECTORS, AND OTHER DEVICES EXPOSED AT ACOUSTICAL PANEL CEILING IN THE CENTER OF THE ACOUSTICAL CEILING PANEL, U.N.O.
4. CENTER RECESSED DOWN-LIGHTS IN SUSPENDED ACOUSTICAL CEILING TILE PANELS.
5. CENTER DOWN-LIGHTS IN GYP. BD. IN BOTH DIRECTIONS AND ALIGN WITH ADJACENT DOWN LIGHTS U.N.O.
6. LOCATE MAIN TEES FOR CEILING GRID TO ALLOW FOR ACCESS TO MECHANICAL UNITS ABOVE - TYP. COORDINATE MECHANICAL UNIT LOCATIONS WITH REFLECTED CEILING PLAN AND LIGHT FIXTURE LOCATIONS.

OTHER

1. PAINT EXPOSED MECHANICAL, ELECTRICAL, FIRE PROTECTION, AND PLUMBING EQUIPMENT UNLESS NOTED OTHERWISE. PAINT TO MATCH CEILING SURFACE ON WHICH THEY OCCUR. TYP.
2. EXPOSED STEEL STRUCTURE AND DECK TO BE PAINTED, U.N.O. STEEL STRUCTURE SHALL INCLUDE SUPPORTING BEAMS, COLUMNS, AND CONNECTIONS BELOW THE PLANE OF THE DECK. - TYPICAL. DECK SHALL INCLUDE THE UNDERSIDE OF A FLOOR AND ROOF SURFACES - TYPICAL. STEEL ANGLES OR PLATES IN THE PLANE OF THE DECK SHALL BE CONSIDERED PART OF THE DECK. EQUIPMENT, MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS MOUNTED OVERHEAD TO STRUCTURE AND DECK SHALL BE PAINTED TO MATCH THE COLOR OF THE SURFACE HUNG FROM U.N.O..
3. CONCEAL CONDUIT WITHIN CEILING CAVITIES. ALONG STRUCTURE, OR BETWEEN METAL DECKING RIBS WHEREVER POSSIBLE. **EXPOSED CONDUIT WILL NOT BE PERMITTED.** COORDINATE ROUTING WITH ARCHITECT PRIOR TO INSTALLATION.
4. AT AREAS WITHOUT CEILINGS: EXPOSED CONDUIT ROUTED TO LIGHT FIXTURE AND OTHER DEVICES ON EXPOSED ROOF DECK AND STRUCTURE SHALL BE ROUTED TIGHT TO DECK / STRUCTURE IN STRAIGHT LINES WITH MINIMUM BENDS / JUNCTION BOXES REQUIRED AND MINIMUM REQUIRED RADIUS BENDS PER UL STANDARD.
5. VERIFY WITH ARCHITECT LOCATION OF VISIBLE CEILING ELEMENTS NOT SHOWN ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
6. CEILING SUPPORT SYSTEMS ARE NOT DESIGNED OR INTENDED TO SUPPORT THE WEIGHT OF ADDITIONAL EQUIPMENT, CABLE, CONDUIT, LIGHTS, MECHANICAL EQUIPMENT, OR OTHER CONSTRUCTION. SUPPORT THESE ITEMS INDEPENDENTLY FROM THE STRUCTURE ABOVE. VERIFY IF ITEMS REQUIRE SEISMIC DESIGN OR SUPPORTS.
7. PAINT METAL CLOSURES, WALL ANGLES, REVEALS, AND MISCELLANEOUS TRIM IN CEILING TO MATCH CEILING U.N.O.
8. LIGHT FIXTURES LOCATED IN GYP. BOARD CEILINGS SHALL BE RECESSED AND HAVE A MUD-IN FLANGE - TYPICAL.
9. DEVICES AND ACCESS PANELS ARE NOT ALLOWED IN ACCENT WALLS OR ACCENT CEILING PANELS, U.N.O.. COORDINATE WITH ALL AFFECTED TRADES TO LOCATE NEEDED ACCESS POINTS ABOVE CEILING IN ADJACENT ROOMS / AREAS.
10. COORDINATE EXACT MOUNTING, POWER, AND DATA REQUIREMENTS FOR CEILING HUNG EQUIPMENT AND AUDIO / VISUAL DEVICES WITH OWNER, PRODUCT MANUFACTURERS, AND CEILING SYSTEMS.

COORDINATION

1. VERIFY ELECTRICAL, MECHANICAL WORK WITH MEP DRAWINGS. ALL ELECTRICAL PLUMBING, FIRE PROTECTION, AND MECHANICAL ITEMS (LIGHT FIXTURES, DIFFUSERS, SPRINKLERS, DEVICES AND EQUIPMENT) ON MEP DRAWINGS ARE SHOWN DIAGRAMMATICALLY. VERIFY ALL ITEMS (TYPES, SIZES, AND LOCATIONS) WITH ARCHITECTURAL DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
2. VERIFY THAT AIR DEVICES FIT IN CEILING AS INDICATED BEFORE PROCEEDING WITH FRAMING CEILING. NOTIFY ARCHITECT IF RELOCATION IS REQUIRED OR IF SHIFTING OF GRID OR OTHER ELEMENTS ARE NECESSARY.
3. DO NOT INSTALL DUCTWORK BELOW LIGHT FIXTURES. COORDINATE DUCTWORK RUNS WITH LIGHT FIXTURE LOCATIONS PRIOR TO INSTALLATION.
4. IN ELEC / MECH / EQUIPMENT ROOMS WITHOUT CEILINGS, PLACEMENT OF LIGHTS SHALL BE COORDINATED WITH EQUIPMENT INSTALLED IN THE ROOM. REFER TO MEP DRAWINGS.

SPRINKLERS

1. SPRINKLER HEADS AND PIPING THAT ARE INDICATED ON ARCHITECTURAL AND M.E.P. DRAWINGS ARE SHOWN TO INDICATE GENERAL DESIGN INTENT. DRAWINGS DO NOT SHOW ALL SPRINKLER HEAD OR PIPING LOCATIONS. CONTRACTOR IS TO COORDINATE WITH ARCHITECT AND FIRE SPRINKLER DESIGNER / INSTALLER PRIOR TO CREATING SHOP DRAWINGS. SPRINKLER SUBCONTRACTOR SHALL FOLLOW DESIGN INTENT AS INDICATED BY ARCHITECT PRIOR TO DESIGN OF THE SPRINKLER SYSTEM, ESPECIALLY IN LOCATIONS THAT ARE OF VISUAL IMPORTANCE. COORDINATE WITH ARCHITECT, M.E.P., FIRE PROTECTION SPECIFICATIONS, AND THE BUILDING CODE TO DETERMINE FINAL NUMBER AND LOCATION OF HEADS, PIPE ROUTING, ACCESS LOCATIONS, AND OTHER REQUIREMENTS. FINAL LOCATIONS OF PIPE ROUTING AND SPRINKLER HEADS, AS WELL AS HEAD TYPE, SHALL BE SUBMITTED, REVIEWED, AND APPROVED THROUGH SHOP DRAWINGS BY ARCHITECT. SPRINKLER HEADS INDICATED IN ARCHITECTS DESIGN INTENT, WHETHER EXPLICITLY INDICATED IN DRAWINGS OR NOT, COORDINATE MOUNTING REQUIREMENTS WITH STRUCTURE AND INSTALL PER MANUFACTURERS RECOMMENDATIONS. SEE CODE PLAN, BUILDING SECTIONS, AND INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION AT EXPOSED LOCATIONS.
2. SPRINKLER PIPING SHALL BE CONCEALED WITHIN / ABOVE CEILING - TYPICAL.
3. IN AREAS WITHOUT CEILINGS: ROUTE SPRINKLER PIPING JUST BELOW OR ALONGSIDE BEAMS AS HIGH AS POSSIBLE - TYPICAL. MOUNT PIPING/SPRINKLER HEADS CENTERED ON OR BETWEEN BEAMS WITH ANCHOR OR CLAMP TYPE HANGERS - TYPICAL. PIPING SHALL MAINTAIN STRAIGHT RUNS WITHIN STRAIGHT DROPS AND A MINIMUM NUMBER OF BENDS WITH MINIMUM REQUIRED RADIUS OR MECHANICAL "T" CONNECTIONS. PIPING TRANSITIONS AND BENDS SHALL BE CONCEALED WHEREVER POSSIBLE. PROVIDE PENDANT TYPE SPRINKLER HEADS AT EXPOSED PIPING - TYP.
4. SPRINKLER PIPING SERVING LOWERED CEILING AREAS IS TO BE CONCEALED FROM VIEW AND LOCATED AWAY FROM EDGES AND WITHIN / ABOVE LOWERED CEILING FRAMING - TYPICAL. EXPOSED DROPS EXTENDING FROM EXPOSED SPRINKLER PIPING ABOVE TO CONCEALED PIPING IN LOWERED CEILING AREAS BELOW ARE NOT ALLOWED, U.N.O. HOLD DROPS TO LOWERED CEILING AREAS AWAY FROM LOWERED CEILING EDGES AND OUT OF VIEW.
5. PROVIDE CONCEALED PENDANT TYPE SPRINKLER HEAD WITH FLUSH COVER PLATES IN ACOUSTIC LAY-IN CEILINGS AND GYPSUM BOARD CEILINGS - TYPICAL. **COVER PLATES SHALL MATCH THE COLOR OF THE SURFACE IN WHICH THEY OCCUR - TYP.**
6. LOCATE DRAINS / VALVES ABOVE ACCESSIBLE CEILINGS OR IN INCONSPICUOUS AREAS. DO NOT LOCATE DRAINS ABOVE GYP. CEILINGS OR IN EXPOSED CEILING.

07 THERMAL AND MOISTURE PROTECTION	
072400.A	1/2" MUD-IN VENTED REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
072400.B	1/2" MUD-IN VENTED REVEAL - COLOR: WHITE. REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
072400.C	1/2" MUD-IN "F" REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS.
072400.E	3" MUD-IN VENTED"F" REVEAL - COLOR: WHITE. REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
072400.F	1/2" MUD-IN VENTED "F" REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
072400.G	1/2" MUD-IN VENTED"F" REVEAL - COLOR: WHITE. REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
072400.H	1/2" MUD-IN "F" REVEAL - COLOR: WHITE. REVEAL SHALL BE CONTINUOUS.
072400.I	1/2" MUD-IN VENTED "Z" REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
072400.J	2"x2" MUD-IN ACCESS PANEL. COLOR TO MATCH SOFFIT. COORDINATE EXACT LOCATION WITH CONDENSATE PIPING TO PROVIDE ADEQUATE ACCESS. REFER TO MEP.
072400.K	2" MUD-IN VENTED "Z" REVEAL - COLOR: WHITE. REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
076200.C	PRE-FINISHED METAL SCUPPER. COLOR TO MATCH GUTTER. SEE DETAIL 3 &4 ON SHEET A4.00.
076200.F	PRE-FINISHED SHEET MTL FLASHING. COLOR TO MATCH STANDING SEAM. NO EXPOSED FASTENERS. SEE WALL SECTIONS AND DETAIL.
21 FIRE SUPPRESSION	
211300.A	FIRE-SUPPRESSION CONCEALED SPRINKLER HEAD. COLOR: WHITE.
211300.B	FIRE-SUPPRESSION CONCEALED SPRINKLER HEAD. COLOR: RED. CUSTOM COLOR TO MATCH SOFFIT.
22 PLUMBING	
220000.D	THROUGH-WALL VENT. REFER TO MEP. CENTER ON MTL WALL PANEL - TYPICAL. COLOR TO MATCH WALL PANEL.
23 HVAC	
230000.B	LINEAR SLOT DIFFUSER. REFER TO MEP.

239000.A	LOUVER. REF: MECHANICAL. COLOR BY ARCHITECT.
26 ELECTRICAL	
260000.A	LIGHT FIXTURE. REF MEP.
28 ELECTRONIC SAFETY & SECURITY	
280000.C	SOFFIT MOUNTED EXTERIOR DIRECTIONAL CAMERA - FACING NORTH. PAINT: COLOR TO MATCH ADJACENT SURFACE PER MANUFACTURER DIRECTIONS.
280000.D	SOFFIT MOUNTED EXTERIOR PANORAMIC CAMERA. PAINT: COLOR TO MATCH ADJACENT SURFACE PER MANUFACTURER DIRECTIONS.

CEILING TYPES:

- C03: 5/8" GYPSUM BOARD OVER DRYWALL SUSPENSION SYSTEM
- C04: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: RED TEXTURE TYPE 1
- C05: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: WHITE. TEXTURE TYPE 1.
- C06: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: WHITE. TEXTURE TYPE 2.

REFLECTED CEILING PLAN LEGEND:

1. LAY-IN CEILING TILE
2. GYPSUM BOARD - PAINT
3. DIRECT APPLIED FINISH SYSTEM - SMOOTH. COLOR: WHITE
4. DIRECT APPLIED FINISH SYSTEM - SMOOTH. COLOR: RED
5. OPEN TO STRUCTURE ABOVE

LIGHT FIXTURES - RE: MEP.

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Andrew Harold Wells - Architect AR #4256
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5/18/2026

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EXTERIOR REFLECTED CEILING PLAN
A2.20

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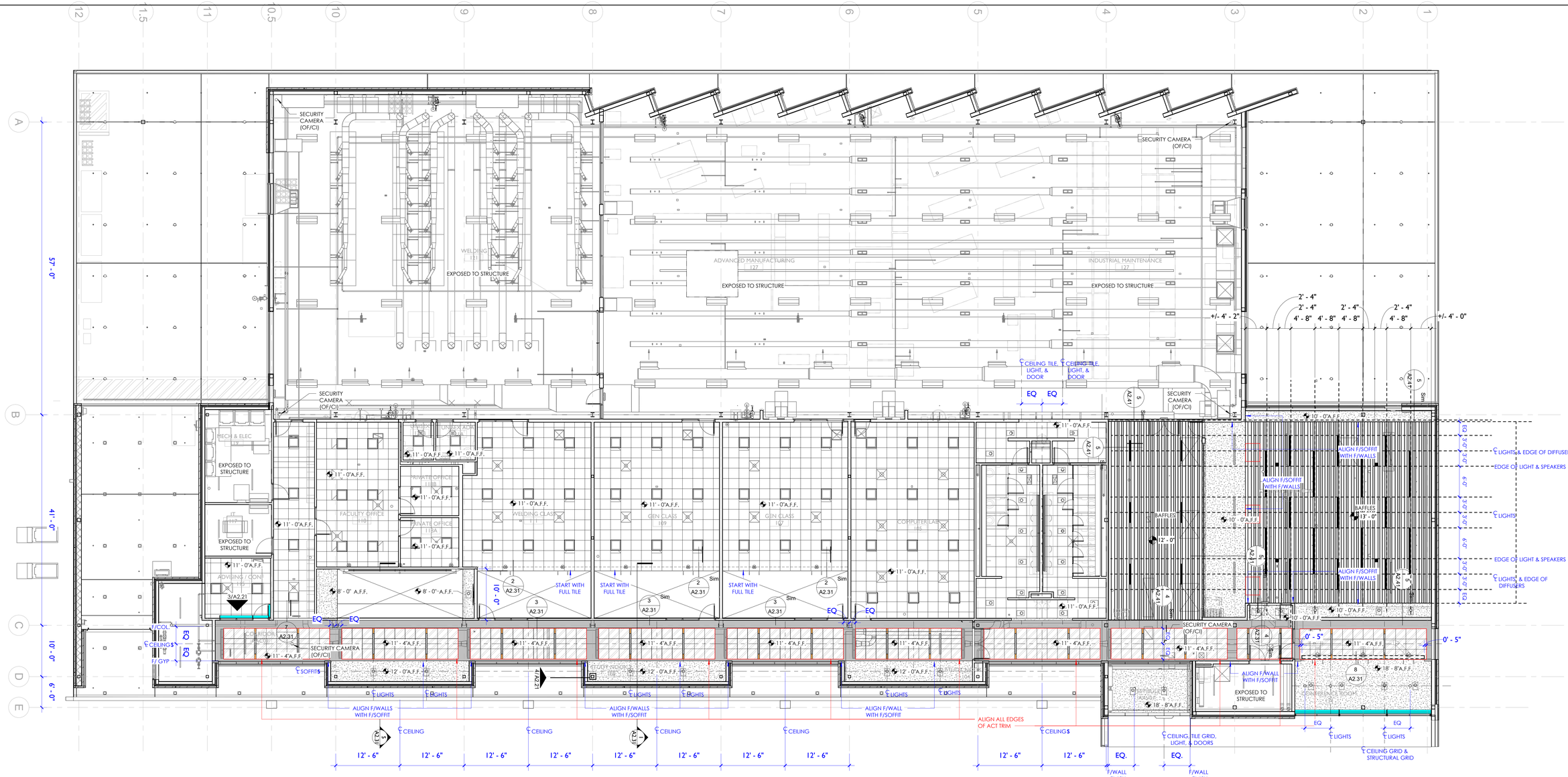
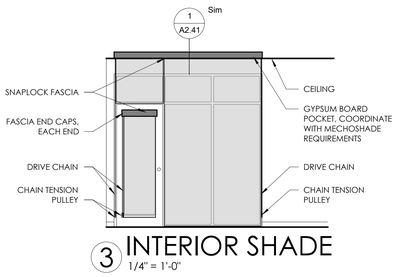


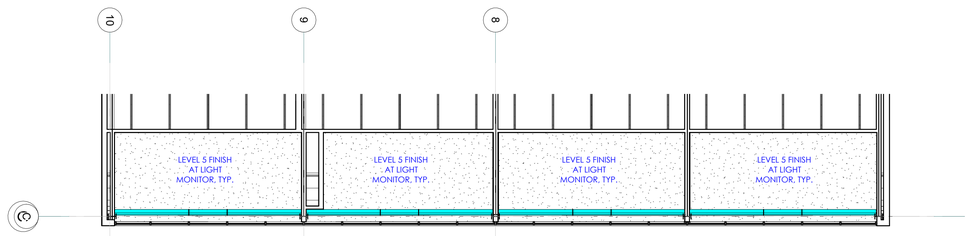
1 FIRST FLOOR - REFLECTED CEILING PLAN

1/8" = 1'-0"



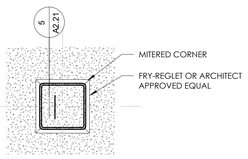
3 INTERIOR SHADE

1/4" = 1'-0"



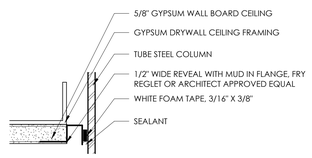
2 LIGHT MONITOR RCP

1/8" = 1'-0"



4 TYPICAL GYP CLG TO COLUMN

1 1/2" = 1'-0"



5 TYPICAL DETAIL

6" = 1'-0"

GENERAL REFLECTED CEILING PLAN NOTES

1. REFER TO MEP FOR ADDITIONAL INFORMATION.
2. UNLESS NOTED OTHERWISE, FIXTURES, SPRINKLERS AND ACCESSORIES SHALL BE CENTERED WITHIN CEILING TILES AND CEILING PLANKS.
3. **ALL CEILINGS TO BE INSTALLED IN COMPLIANCE WITH THE REQUIREMENTS OF SEISMIC DESIGN CATEGORY D.**

ARMSTRONG WORLD INDUSTRIES, INC., "AXIOM CLASSIC 2 STRAIGHT PER PERIMETER TRIM" OR EQUAL, USE PRE-MITERED CORNERS. **ALL TILES WITHIN PERIMETER OF AXIOM TRIMS ARE TO BE WHOLE TILES.**

ARMSTRONG WORLD INDUSTRIES, INC., TECHZONE, 4' x 12' TECHNICAL PANELS OR EQUAL.

CEILING PLAN LEGEND

- GYPSUM BOARD, PAINT
- 2X2 SUSPENDED ACOUSTICAL TILE
- 2X2 SUSPENDED ACOUSTICAL TILE
- DRYFALL PAINT
- DRYFALL PAINT, ABOVE ACT TILE
- BAFFLES SEE A2.41
- BAFFLE ACCESS PANEL APPROXIMATELY 36" X 42" EACH COORDINATE EXACT SIZE AND LOCATIONS DURING SUBMITTALS SEE A2.41

SHADE 1 SHADE 2 SHADE 3

MECHO SHADES, REFER TO WALL SECTIONS FOR DETAILS

DEMARCATION BETWEEN ROLLER SHADES, THESE ARE TO ALIGN WITH MULLIONS

MECHO SHADES AT EXTERIOR ARE ALL MOTORIZED

FENNELL PURIFOY ARCHITECTS + DAKE | WELLS architecture

REGISTERED ARCHITECT FENNELL PURIFOY No. 11,112 ARKANSAS 5.18.26

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INTERIOR REFLECTED CEILING PLAN

A2.21

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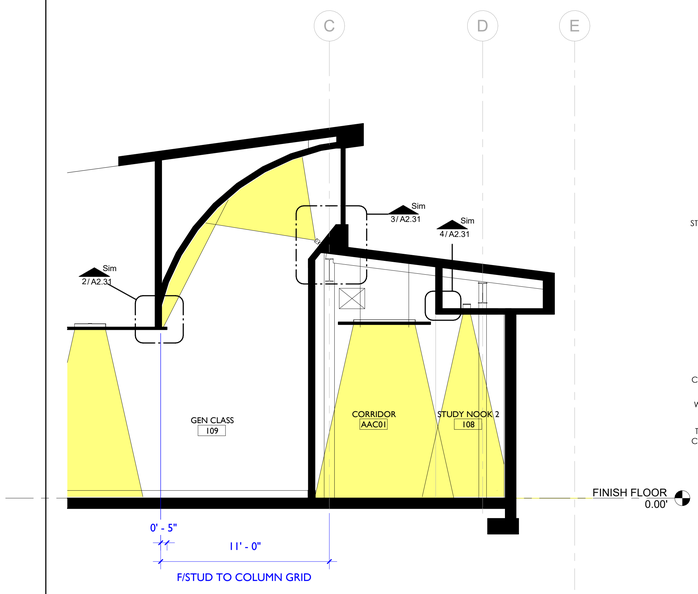
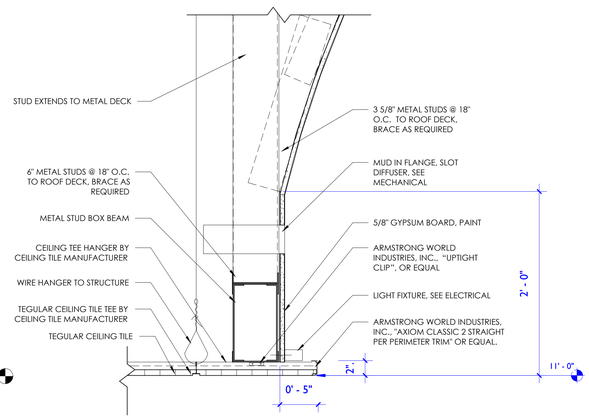
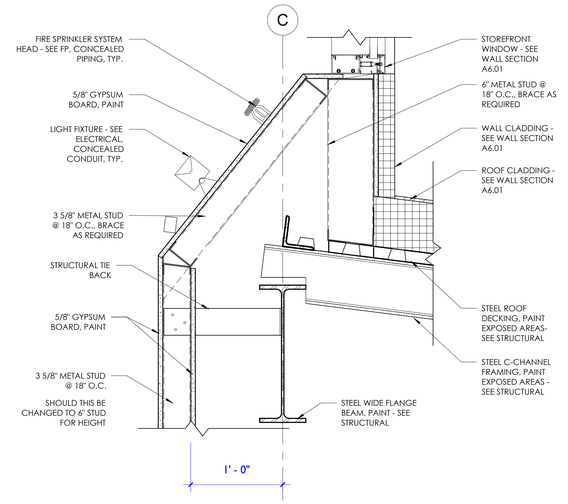


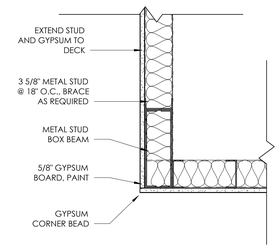
1 CLASSROOM SECTION
1/4" = 1'-0"



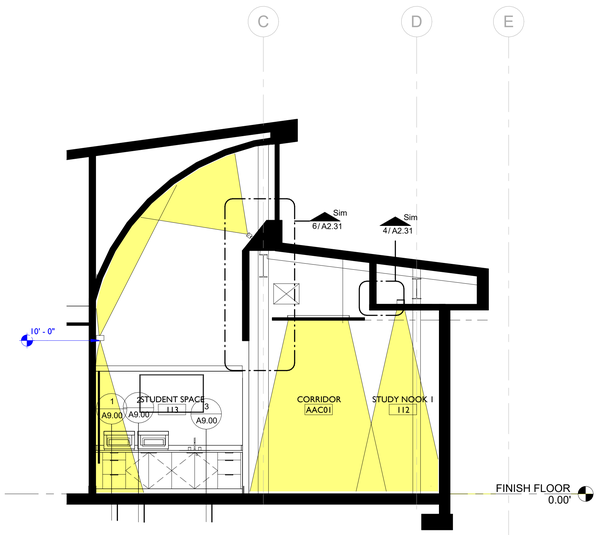
2 CEILING DETAIL
1 1/2" = 1'-0"



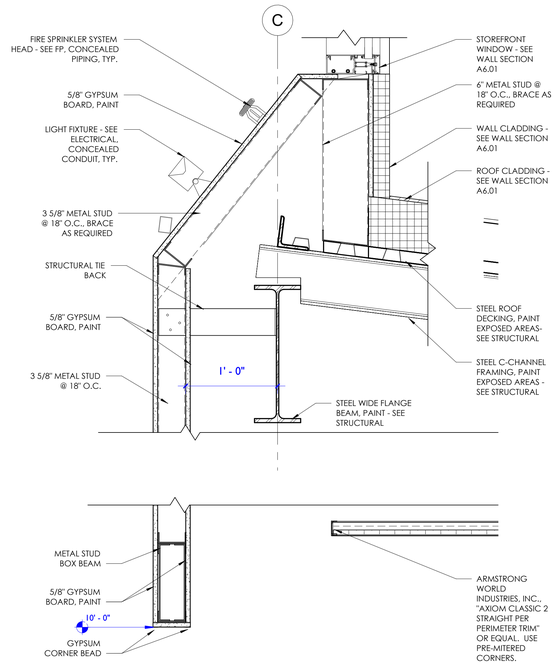
3 CEILING DETAIL
1 1/2" = 1'-0"



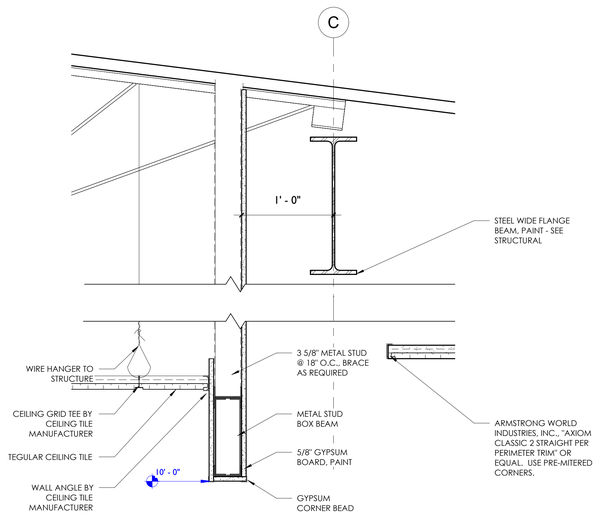
4 CORNER
1 1/2" = 1'-0"



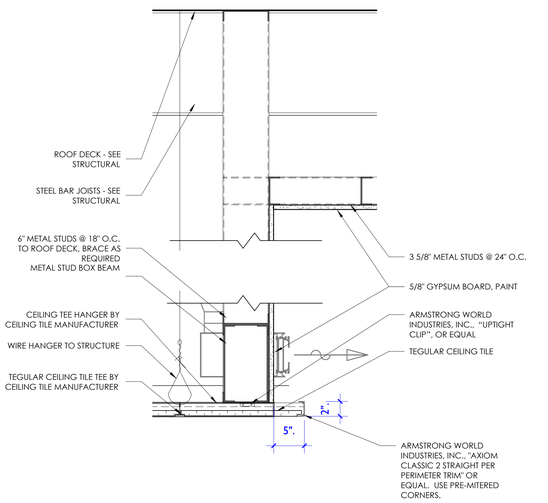
5 STUDENT AREA SECTION
1/4" = 1'-0"



6 CEILING DETAIL
1 1/2" = 1'-0"



7 CEILING DETAIL
1 1/2" = 1'-0"



8 CEILING DETAIL
1 1/2" = 1'-0"

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INTERIOR CEILING DETAILS
A2.31

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REGISTERED ARCHITECT
FENNELL PURIFOY
No. 11,112
ARKANSAS
5.18.26

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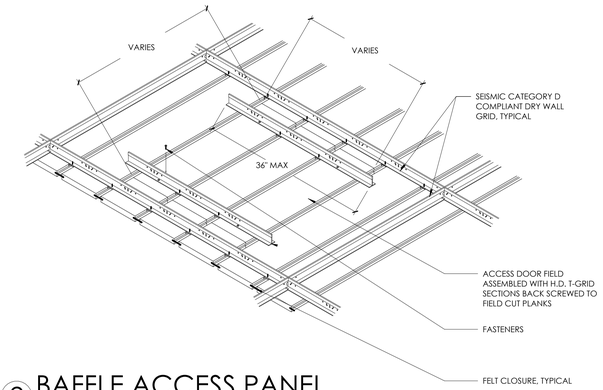
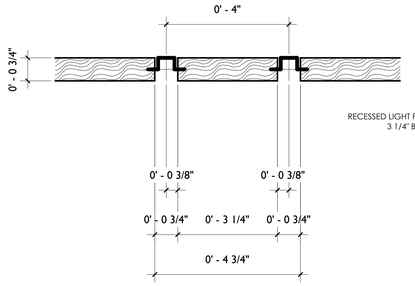
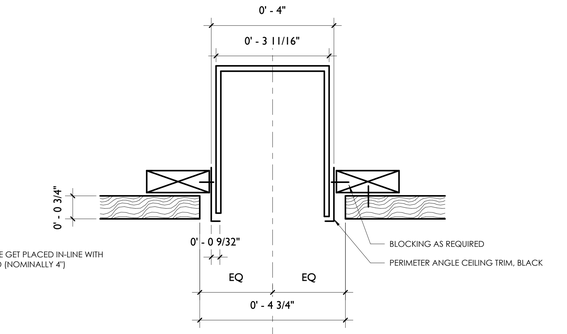


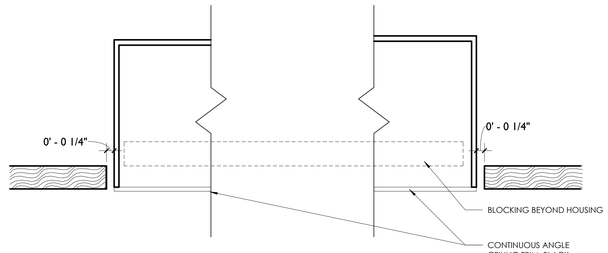
2 BAFFLE ACCESS PANEL
1 1/2" = 1'-0"



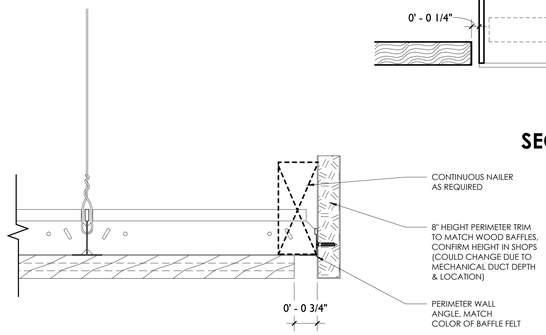
3 LIGHT FIXTURE RECESS
6" = 1'-0"



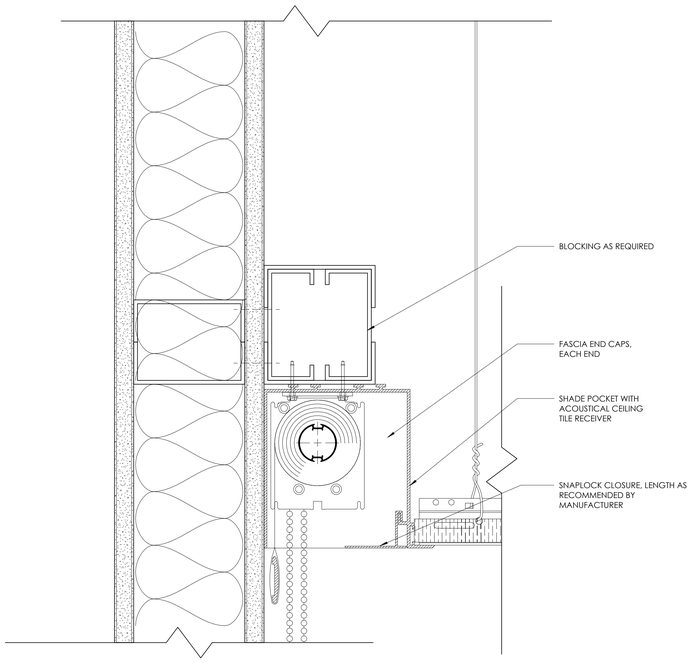
SECTION THROUGH LIGHT FIXTURE WIDTH



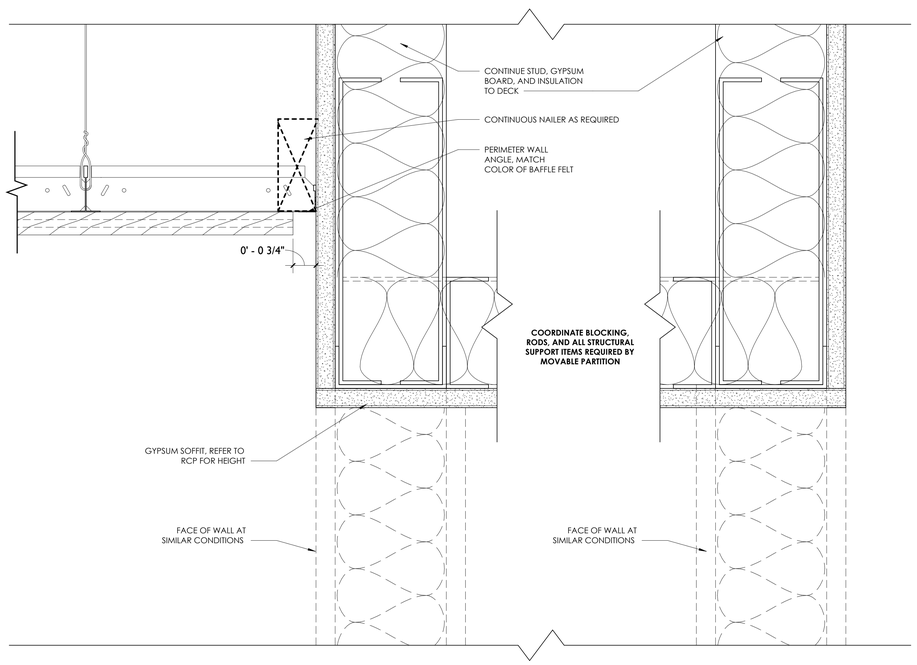
SECTION THROUGH LIGHT FIXTURE LENGTH



4 BAFFLE EDGE LOBBY
6" = 1'-0"



1 MANUAL SHADE
6" = 1'-0"



5 BAFFLE TYPICAL EDGE DETAIL
6" = 1'-0"

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INTERIOR CEILING DETAILS
A2.41

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REGISTERED ARCHITECT — KENDALL PURIFOY — No. LL2 — ARKANSAS — 5.18.26

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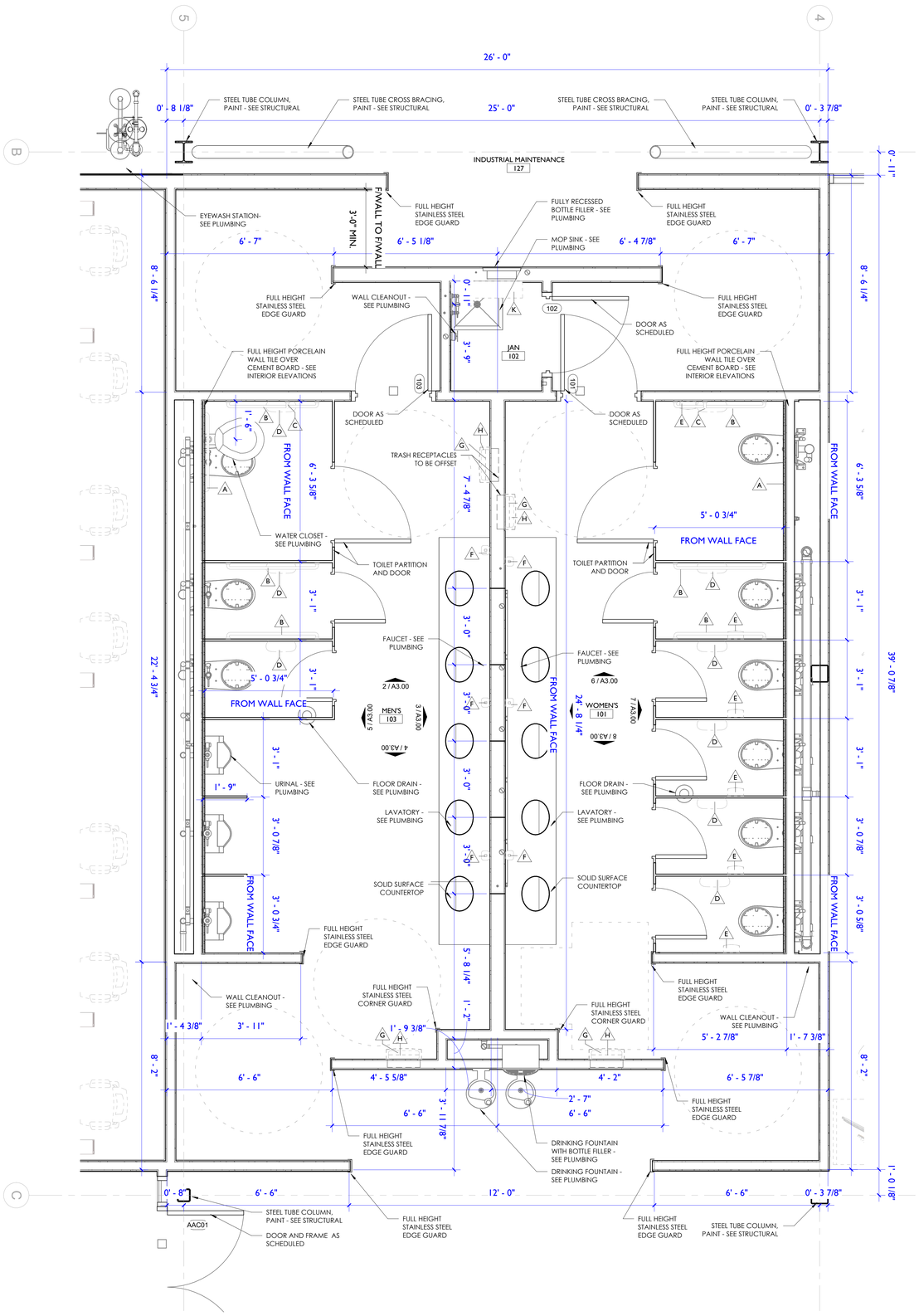
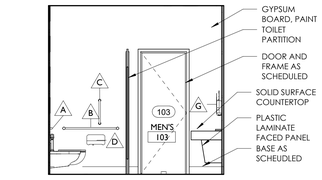
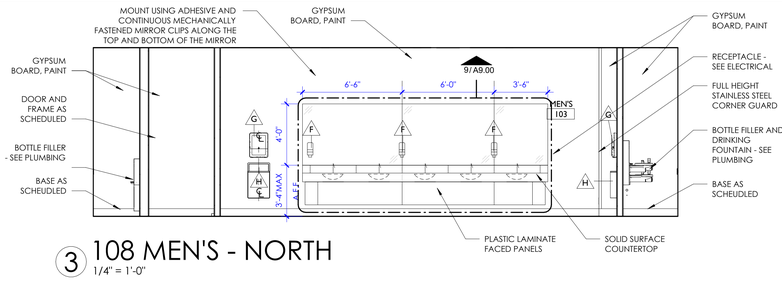


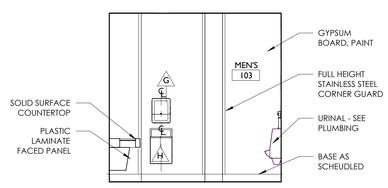
1 WOMEN'S AND MEN'S RESTROOM
1/2" = 1'-0"



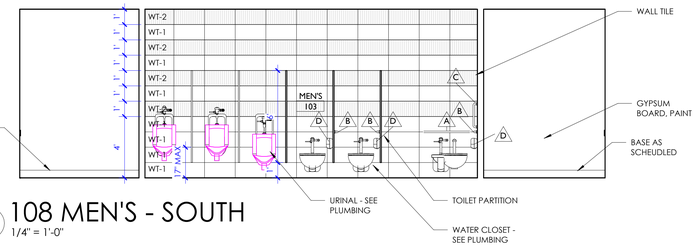
2 108 MEN'S - WEST
1/4" = 1'-0"



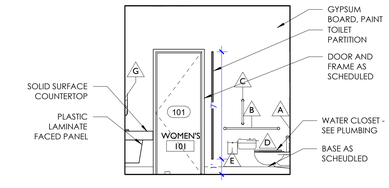
3 108 MEN'S - NORTH
1/4" = 1'-0"



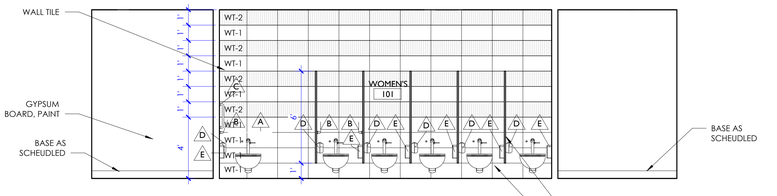
4 108 MEN'S - EAST
1/4" = 1'-0"



5 108 MEN'S - SOUTH
1/4" = 1'-0"



6 106 WOMEN'S - WEST
1/4" = 1'-0"



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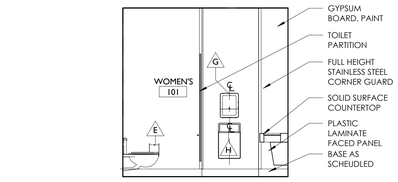

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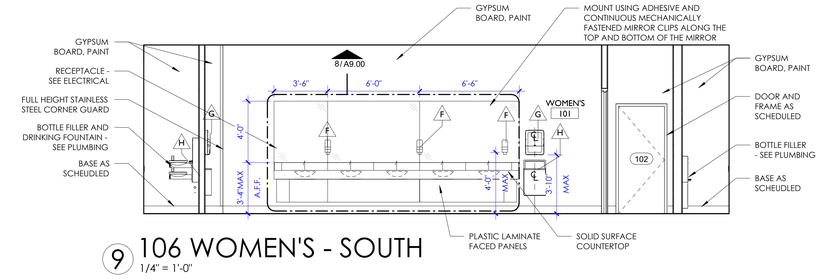
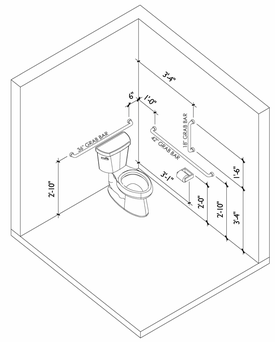


9 106 WOMEN'S - SOUTH
1/4" = 1'-0"

TYPICAL TOILET ACCESSORY CLEARANCES AND HEIGHTS



ACCESSORY SCHEDULE

A	36" GRAB BAR	G	TORK PEAKSERVE MINI CONTINUOUS HAND TOWEL DISPENSER, WALL MOUNTED; TORK S52538
B	42" GRAB BAR	H	TRASH RECEPTACLE
C	18" GRAB BAR	I	24"X36" MIRROR
D	TORK TOILET PAPER DISPENSER	J	COAT HOOK
E	SANITARY NAPKIN DISPOSAL	K	MOP SHELF
F	TORK SOAP AND SANITIZER DISPENSER, WALL AND MIRROR MOUNTED; TORK 581500		

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REGISTERED ARCHITECT FENNELL PURIFOY NO. 11,172 ARKANSAS 5.18.26

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REVISIONS:

100% CONSTRUCTION DOCUMENTS
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ENLARGED FLOOR PLAN
A3.00

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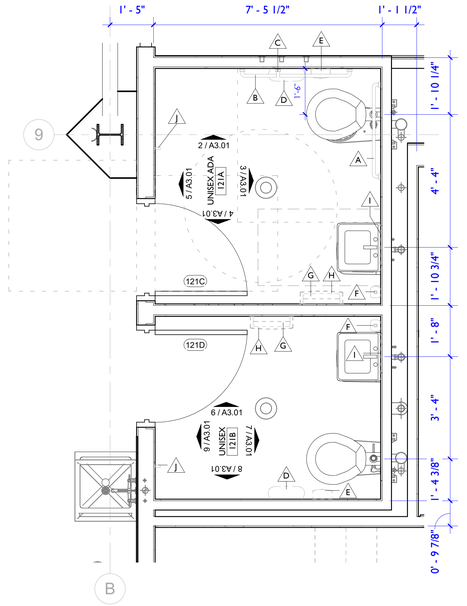
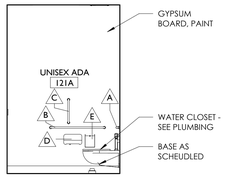
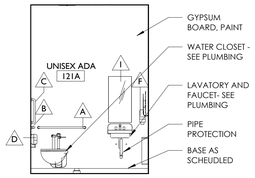


1 UNISEX RESTROOM
1/2" = 1'-0"



2 121A - UNISEX ADA - EAST
1/4" = 1'-0"



3 121A - UNISEX ADA - SOUTH
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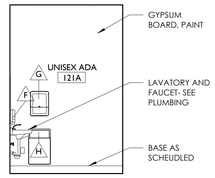
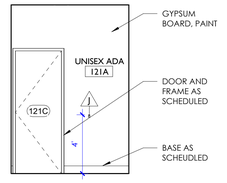


4 121A - UNISEX ADA - WEST
1/4" = 1'-0"



5 121A - UNISEX ADA - NORTH
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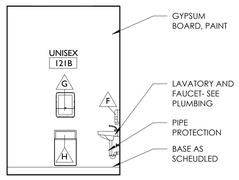

6 121B - UNISEX - EAST
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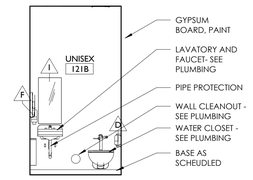
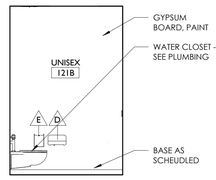
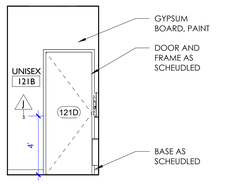


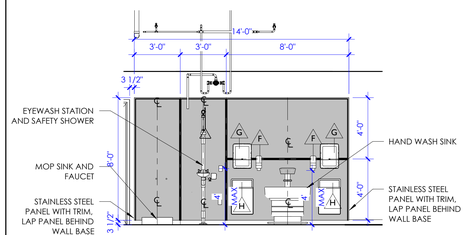
7 121B - UNISEX - SOUTH
1/4" = 1'-0"



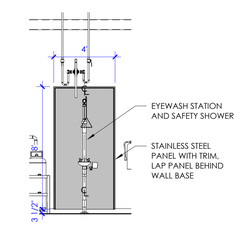
8 121B - UNISEX - WEST
1/4" = 1'-0"



9 121B - UNISEX - NORTH
1/4" = 1'-0"



10 SAFETY STATION
1/4" = 1'-0"



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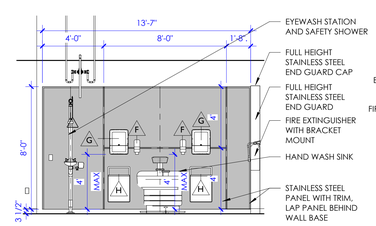
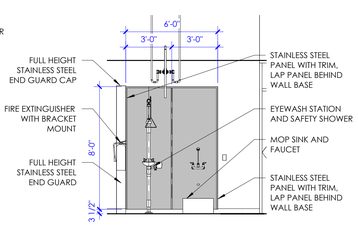
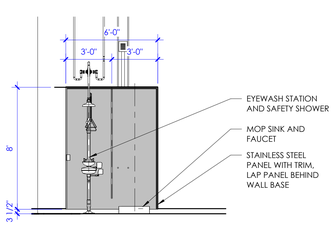
1/4" = 1'-0"



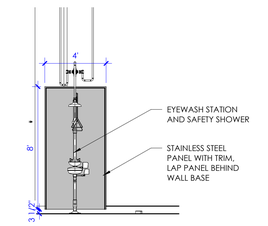
12 SAFETY STATION
1/4" = 1'-0"



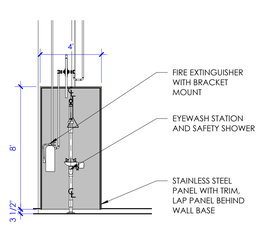
13 SAFETY STATION
1/4" = 1'-0"



14 SAFETY STATION
1/4" = 1'-0"



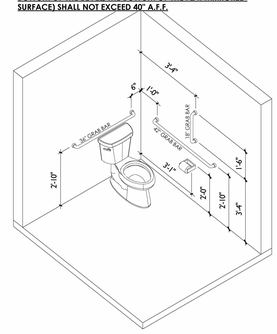
15 SAFETY STATION
1/4" = 1'-0"



16 SAFETY STATION
1/4" = 1'-0"

TYPICAL TOILET ACCESSORY CLEARANCES AND HEIGHTS

HEIGHT OF COUNTERS AND T/SINK-RIMS NOT TO EXCEED 2'-10"A.F.F. HEIGHT OF BOTTOM FACE OF FLAT MIRRORED SURFACE (NOT THE BOTTOM OF THE BEVEL, THE BOTTOM OF THE FLAT MIRRORED SURFACE) SHALL NOT EXCEED 40" A.F.F.



ACCESSORY SCHEDULE

A	36" GRAB BAR	G	TORK PEAKSERVE MINI CONTINUOUS HAND TOWEL DISPENSER, WALL MOUNTED; TORK 552538
B	42" GRAB BAR	H	TRASH RECEPTACLE
C	18" GRAB BAR	I	24"X36" MIRROR
D	TORK TOILET PAPER DISPENSER	J	COAT HOOK
E	SANITARY NAPKIN DISPOSAL	K	MOP SHELF
F	TORK SOAP AND SANITIZER DISPENSER, WALL AND MIRROR MOUNTED; TORK 581500		

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REGISTERED ARCHITECT FENNELL PURIFOY No. LL2 ARKANSAS 5.18.26

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REVISIONS:

100% CONSTRUCTION DOCUMENTS
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ENLARGED FLOOR PLAN
A3.01

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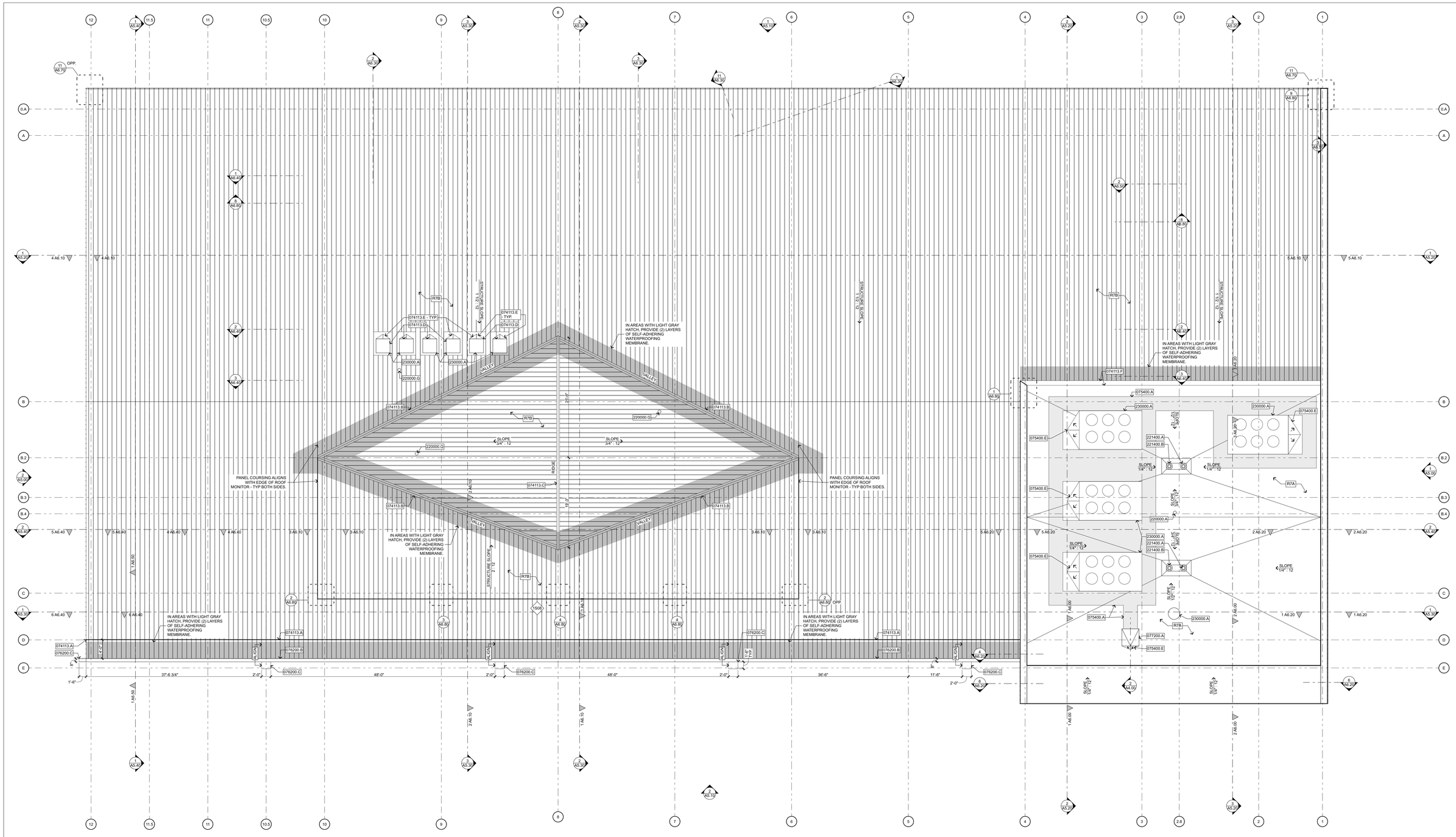
REVISIONS:

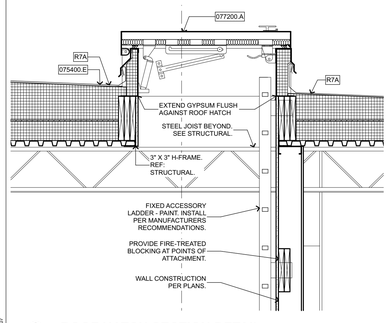
100 % CONSTRUCTION DOCUMENTS
05-18-2026

ROOF PLAN
A4.00



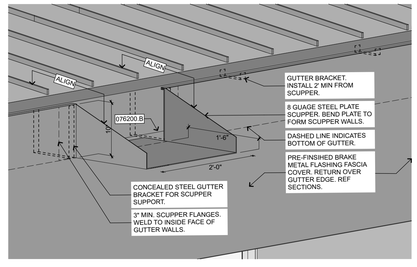
1 ROOF

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



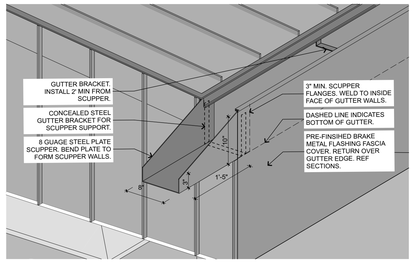
2 ROOF HATCH SECTION DETAIL

SCALE: 3/4" = 1'-0"



3 ROOF SCUPPER AXON. TYP.

SCALE: 1" = 1'-0"



4 ROOF SCUPPER END CONDITION AXON

SCALE: 1" = 1'-0"

07 THERMAL AND MOISTURE PROTECTION	
074113.A	STANDING SEAM METAL ROOF SNOW GUARDS. COLOR TO MATCH ROOF - TYPICAL.
074113.B	VALLEY FLASHING PER NRCA DETAIL AM-9A
074113.C	RIDGE FLASHING PER NRCA DETAIL AM-6A
074113.D	RAISED CURB FOR ROOFTOP EQUIPMENT. FLASH PER NRCA DETAIL AM-17. COLOR TO MATCH STANDING SEAM ROOF PANELS.
074113.E	ROOF CRICKET. FLASH PER NRCA DETAIL AM-17. COLOR TO MATCH STANDING SEAM ROOF PANELS.
074113.F	STEEP-TO LOW-SLOPE ROOF SYSTEM TRANSITION PER NRCA DETAIL AM-18.
075400.A	WALK PADS
075400.E	ROOF CRICKET. SLOPE 1/4" PER FOOT MIN.
076200.B	SQUARE PROFILE PRE-FINISHED METAL GUTTER (8"W X10") SIM. TO SMACNA STYPE "H" WITH CONCEALED BRACKETS. COLOR TO MATCH STANDING SEAM ROOF PANELS.
076200.C	PRE-FINISHED METAL SCUPPER. COLOR TO MATCH GUTTER. SEE DETAIL 3 &4 ON SHEET A4.00.
077200.A	ROOF ACCESS HATCH AND LADDER.
22 PLUMBING	
220000.A	ROOF HYDRANT. REF: PLUMBING
220000.G	VENT. REFER TO MEP. FLASH PER NRCA DETAIL AM-15. PROVIDE RAIN COLLAR. CENTER PENETRATION ON STANDING SEAM PANEL - TYPICAL
221400.A	ROOF DRAIN - RE: MEP FOR SIZING. SEE CIVIL FOR STORMWATER CONNECTION.
221400.B	ROOF DRAIN OVERFLOW- RE: MEP FOR SIZING.
23 HVAC	
230000.A	ROOF TOP EQUIPMENT. REFER TO MEP.

GLAZING FRAME KEY:

1GH8 — 2 1/2" X 7 1/2" - ALUMINUM CURTAIN WALL SYSTEM - PREFINISHED, EXTERIOR, THERMALLY BROKEN, CAPTURED, REINFORCED AS REQUIRED. FINISH: CLEAR ANODIZED.

1SH8 — 2" X 4 1/2" - ALUMINUM STOREFRONT SYSTEM - PREFINISHED, INTERIOR, THERMALLY BROKEN. FINISH: CLEAR ANODIZED.

ROOF TYPES:

R7A: T.P.O. SINGLE PLY MEMBRANE OVER 1/2" COVERBOARD OVER MINIMUM (2) LAYERS OF POLYISO STAGGERED. BOARD INSULATION TO EQUAL MINIMUM R-30 (OR IF TAPERED R-30 MIN VALUE) OVER METAL DECK PER STRUCTURAL.

R7B: STANDING SEAM METAL ROOF PANEL OVER CONTINUOUS SELF-ADHERING, HIGH TEMP WATERPROOFING SHEET MEMBRANE OVER 5/8" SHEATHING OVER MINIMUM (2) LAYERS OF POLYISO STAGGERED (R-30 MIN VALUE) OVER METAL DECK PER STRUCTURAL.

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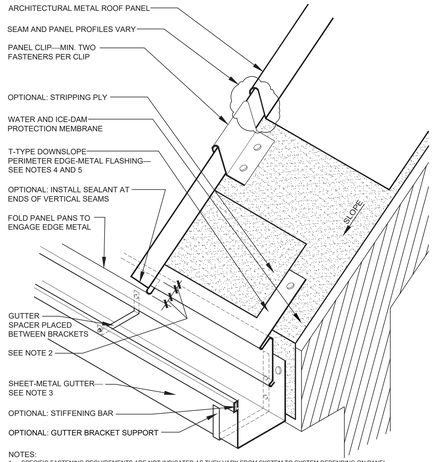
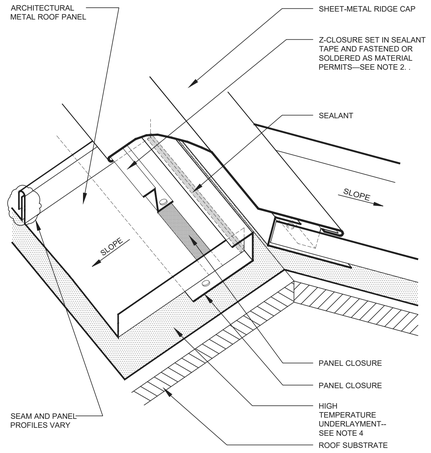


NOTES:
1. SPECIFIC FASTENING REQUIREMENTS ARE NOT INDICATED AS THEY VARY FROM SYSTEM TO SYSTEM DEPENDING ON PANEL MANUFACTURER'S REQUIREMENTS, WIND ZONE AND BUILDING CODE.
2. DIMENSIONS SHOULD ACCOMMODATE EXPECTED MOVEMENT. REFER TO SECTION 5.12 FOR INFORMATION ABOUT THERMAL MOVEMENT CONSIDERATIONS.
3. REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING MANUAL: ARCHITECTURAL METAL FLASHING AND CONDENSATION AND AIR LEAKAGE CONTROL FOR MORE INFORMATION ABOUT GUTTERS.
4. REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING MANUAL: ARCHITECTURAL METAL FLASHING AND CONDENSATION AND AIR LEAKAGE CONTROL FOR PERIMETER EDGE-METAL THICKNESS AND CLEAT RECOMMENDATIONS.
5. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.
6. REFER TO METAL PANEL SYSTEM MANUFACTURER AND UNDERLAYMENT MANUFACTURER RECOMMENDATIONS FOR ACCEPTABLE PRODUCT SELECTION.

EAVE WITH GUTTER AND WATER AND ICE-DAM PROTECTION MEMBRANE
2020 *NOT DRAWN TO SCALE* **AM-3**

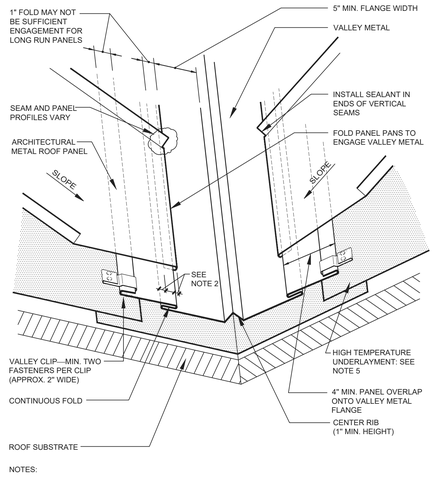
1 2020 NRCA AM-3
SCALE: 1" = 1'-0"



NOTES:
1. SPECIFIC FASTENING REQUIREMENTS ARE NOT INDICATED AS THEY VARY FROM SYSTEM TO SYSTEM DEPENDING ON PANEL MANUFACTURER'S REQUIREMENTS, WIND ZONE AND BUILDING CODE.
2. IF THE Z-CLOSURE IS FASTENED THROUGH THE ROOF DECK, THE PANELS ARE FIXED ALONG THE RIDGE. IF THE Z-CLOSURE IS FASTENED TO THE PANELS WITH POP RIVETS OR SOLDERED, THE PANELS ARE NOT FIXED AT THE RIDGE (I.E., FLOATING).
3. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.
4. REFER TO METAL PANEL SYSTEM MANUFACTURER AND UNDERLAYMENT MANUFACTURER RECOMMENDATIONS FOR ACCEPTABLE PRODUCT SELECTION.

RIDGE CAP FLASHING
2020 *NOT DRAWN TO SCALE* **AM-6A**

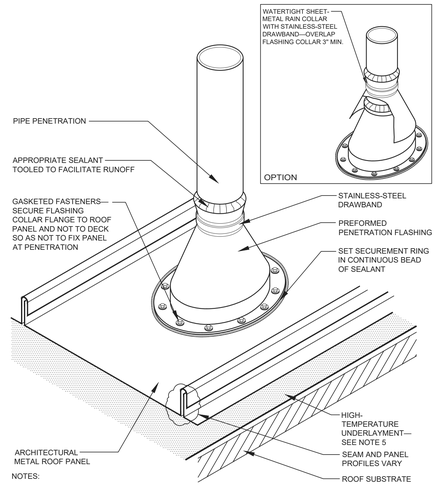
2 2020 NRCA AM-6A
SCALE: 1" = 1'-0"



NOTES:
1. SPECIFIC FASTENING REQUIREMENTS ARE NOT INDICATED AS THEY VARY FROM SYSTEM TO SYSTEM DEPENDING ON PANEL MANUFACTURER'S REQUIREMENTS, WIND ZONE AND BUILDING CODE.
2. DIMENSIONS SHOULD ACCOMMODATE EXPECTED MOVEMENT. REFER TO SECTION 4.12 FOR INFORMATION ABOUT THERMAL MOVEMENT CONSIDERATIONS.
3. DIMENSIONS FOR VALLEY METAL WIDTH VARY ACCORDING TO PANEL LENGTHS AND GEOGRAPHIC CONSIDERATIONS.
4. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.
5. REFER TO METAL PANEL SYSTEM MANUFACTURER AND UNDERLAYMENT MANUFACTURER RECOMMENDATIONS FOR ACCEPTABLE PRODUCT SELECTION.

OPEN METAL VALLEY
2020 *NOT DRAWN TO SCALE* **AM-9A**

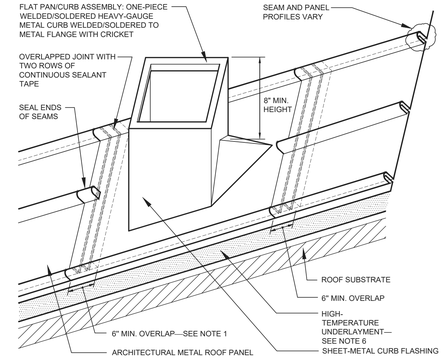
3 2020 NRCA AM-9A
SCALE: 1" = 1'-0"



NOTES:
1. NRCA STRONGLY RECOMMENDS PENETRATIONS SHOULD NOT INTERFERE WITH PANEL SEAMS OR OCCUR AT TRANSVERSE SEAMS.
2. VENT STACKS AND OTHER PIPES SHOULD HAVE A MINIMUM 12 INCHES OF CLEARANCE ON ALL SIDES FROM WALLS, CURBS AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.
3. FOR HOT PIPES, SPECIFIC HIGH-TEMPERATURE BOOTS SHOULD BE USED.
4. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.
5. REFER TO METAL PANEL SYSTEM MANUFACTURER AND UNDERLAYMENT MANUFACTURER RECOMMENDATIONS FOR ACCEPTABLE PRODUCT SELECTION.

PIPE PENETRATION FLASHING
2020 *NOT DRAWN TO SCALE* **AM-15**

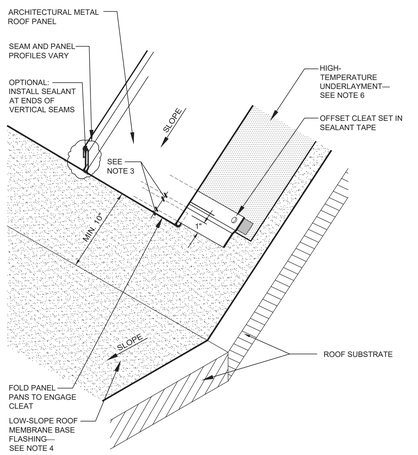
4 2020 NRCA AM-15
SCALE: 1" = 1'-0"



NOTES:
1. PROPER STRUCTURAL SUPPORT AND ATTACHMENT IS REQUIRED UNDER ALL SIDES OF RAISED CURB.
2. CURB-MOUNTED EQUIPMENT SHOULD BE WEATHERPROOF AND HAVE A WEATHERPROOF INTERLOCK OR SUFFICIENT OVERLAP WITH THE CURB.
3. PREMANUFACTURED CURBS ARE AVAILABLE.
4. THIS DETAIL FIXES THE RAISED CURB TO THE ARCHITECTURAL METAL PANELS.
5. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.
6. REFER TO METAL PANEL SYSTEM MANUFACTURER AND UNDERLAYMENT MANUFACTURER RECOMMENDATIONS FOR ACCEPTABLE PRODUCT SELECTION.

RAISED CURB FOR ROOFTOP EQUIPMENT
2020 *NOT DRAWN TO SCALE* **AM-17**

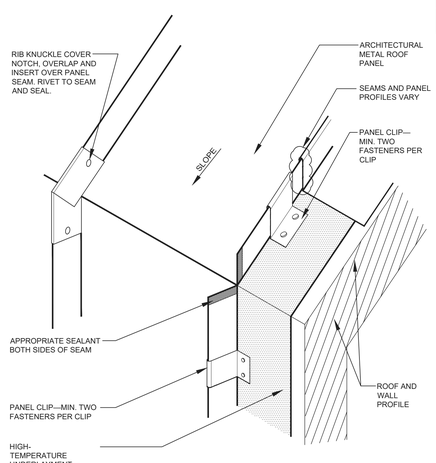
5 2020 NRCA AM-17
SCALE: 1" = 1'-0"



NOTES:
1. DIMENSION "A" AND PANEL OVERLAP TO BE DETERMINED BY LOW-SLOPE MEMBRANE ROOF SYSTEM REQUIREMENTS, SLOPE OF ROOF AND CLIMATIC CONSIDERATIONS.
2. COMPATIBILITY OF UNDERLAYMENT AND LOW-SLOPE MEMBRANE SHOULD BE CONSIDERED.
3. DIMENSIONS SHOULD ACCOMMODATE EXPECTED MOVEMENT. REFER TO SECTION 5.12 FOR INFORMATION ABOUT THERMAL MOVEMENT CONSIDERATIONS.
4. REFER TO THE NRCA ROOFING MANUAL: MEMBRANE ROOF SYSTEMS FOR SPECIFICS ON MEMBRANE BASE FLASHINGS.
5. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.
6. REFER TO METAL PANEL SYSTEM MANUFACTURER AND UNDERLAYMENT MANUFACTURER RECOMMENDATIONS FOR ACCEPTABLE PRODUCT SELECTION.

STEEP- TO LOW-SLOPE ROOF SYSTEM TRANSITION
2020 *NOT DRAWN TO SCALE* **AM-18**

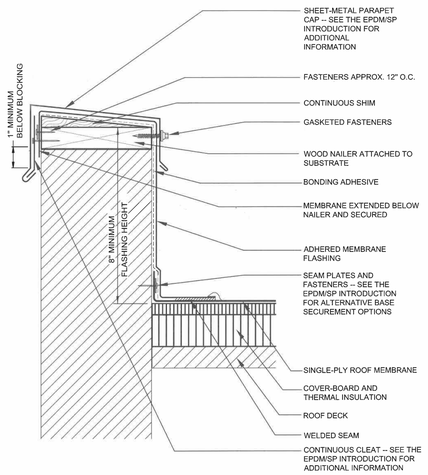
6 2020 NRCA AM-18
SCALE: 1" = 1'-0"



NOTES:
1. THIS DETAIL IS APPLICABLE WHEN ROOF AND WALL PANELS ARE CONTINUOUS FROM ROOF TO WALL.
2. THIS DESIGN MAY BE SUSCEPTIBLE TO ICE DAMAGE.
3. THIS DETAIL IS APPROPRIATE WHEN THE LOWER PORTION OF THE METAL PANEL IS RELATIVELY SHORT.
4. THIS DETAIL FIXES THE PANEL AT THIS LOCATION.
5. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.
6. REFER TO METAL PANEL SYSTEM MANUFACTURER AND UNDERLAYMENT MANUFACTURER RECOMMENDATIONS FOR ACCEPTABLE PRODUCT SELECTION.

CONTINUOUS ROOF-TO-WALL PANEL TRANSITION
2020 *NOT DRAWN TO SCALE* **AM-20A**

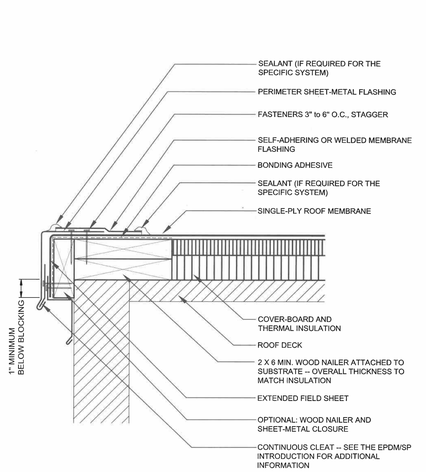
7 2020 NRCA AM-20A
SCALE: 1" = 1'-0"



NOTES:
1. THIS DETAIL SHOULD BE USED ONLY WHERE THE DECK IS SUPPORTED BY THE WALL. DETAIL SP-6 SHOULD BE USED FOR NONWALL-SUPPORTED DECK.
2. REFER TO THE ARCHITECTURAL SHEET METAL SECTION OF THE NRCA ROOFING AND WATERPROOFING MANUAL FOR JOINERY AND SECUREMENT OPTIONS FOR SHEET METAL.
3. REFER TO THE EPDM/SP INTRODUCTION FOR ADDITIONAL INFORMATION.

NATIONAL ROOFING CONTRACTORS ASSOCIATION
BASE FLASHING AT PARAPET WALL WITH METAL CAP (COPING)
2007 *NOT DRAWN TO SCALE* **SP-1S**

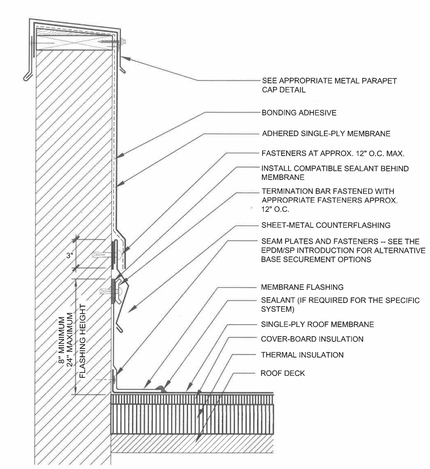
8 2007 NRCA SP-1S
SCALE: 1" = 1'-0"



NOTES:
1. THIS DETAIL SHOULD BE USED ONLY WHERE THE DECK IS SUPPORTED BY THE OUTSIDE WALL.
2. REFER TO THE ARCHITECTURAL SHEET METAL SECTION OF THE NRCA ROOFING AND WATERPROOFING MANUAL FOR JOINERY AND SECUREMENT OPTIONS FOR SHEET METAL.
3. REFER TO THE EPDM/SP INTRODUCTION FOR ADDITIONAL INFORMATION.

NATIONAL ROOFING CONTRACTORS ASSOCIATION
DRAINING PERIMETER EDGE
2007 *NOT DRAWN TO SCALE* **SP-3AS**

9 2007 NRCA SP-3AS
SCALE: 1" = 1'-0"



NOTES:
1. THIS DETAIL SHOULD BE USED ONLY WHERE THE DECK IS SUPPORTED BY THE WALL.
2. COUNTERFLASHING DETAIL MAY BE A TWO-PIECE REGLET AND COUNTERFLASHING. SEE THE EPDM/SP INTRODUCTION FOR ALTERNATIVE SHEET-METAL COUNTERFLASHING.
3. REFER TO THE ARCHITECTURAL SHEET METAL SECTION OF THE NRCA ROOFING AND WATERPROOFING MANUAL FOR JOINERY AND SECUREMENT OPTIONS FOR SHEET METAL.
4. REFER TO THE EPDM/SP INTRODUCTION FOR ADDITIONAL INFORMATION.

NATIONAL ROOFING CONTRACTORS ASSOCIATION
BASE FLASHING WITH SURFACE-MOUNTED COUNTERFLASHING AT HIGH WALL WITH SINGLE-PLY WATERPROOFING
2007 *NOT DRAWN TO SCALE* **SP-7S**

10 2007 NRCA SP-7A
SCALE: 1" = 1'-0"

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ROOF DETAILS
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Andrew Harold Wells - Architect AR #4256
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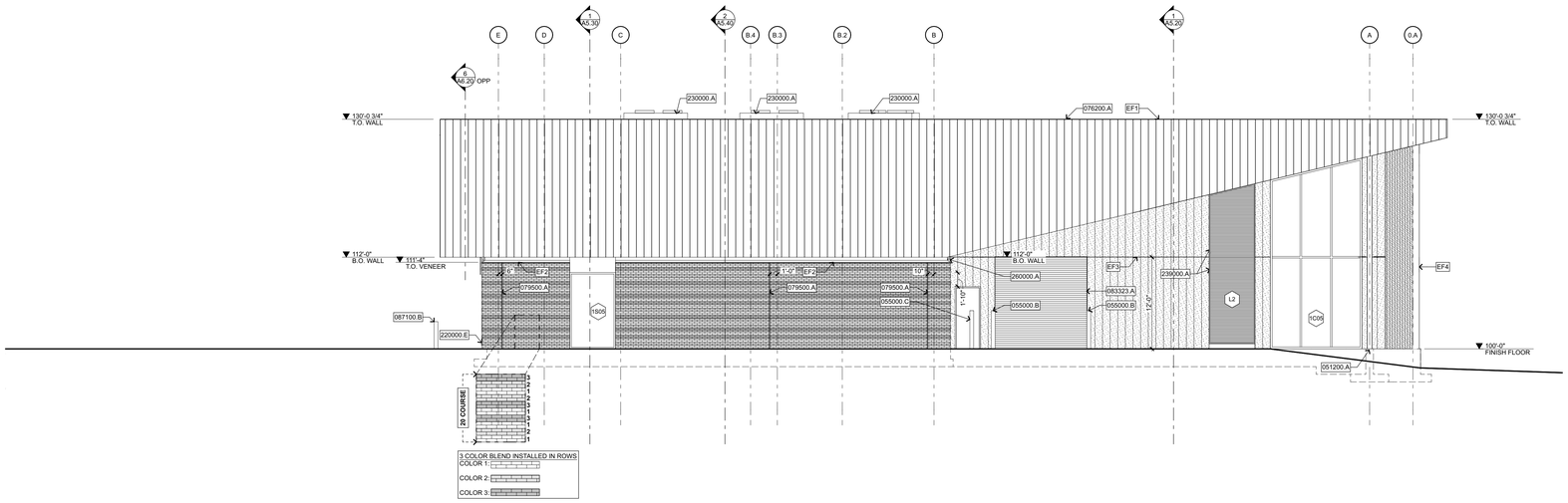
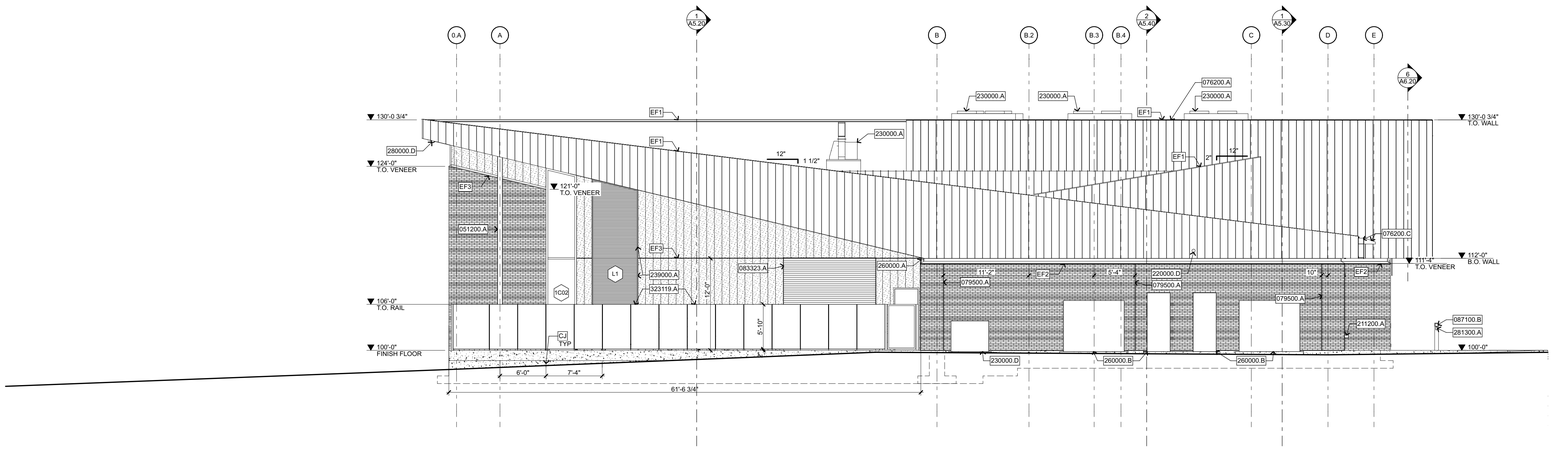


1 NORTH ELEVATION

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



2 SOUTH ELEVATION

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

05 METALS	
051200.A	STRUCTURAL STEEL MEMBER - RE: STRUCT.
055000.B	6" x 48" REMOVABLE PIPE BOLLARD EQUAL TO IDEAL SHIELD 6" INTERNAL LOCKING BOLLARD. GALVANIZED AND PAINTED. COLOR BY ARCHITECT. FOOTING SIM. TO DETAIL 8/A6.100. INSTALL PER MANUFACTURER RECOMMENDATIONS.
055000.C	SITE BOLLARD. REFER TO CIVIL. PAINT.
07 THERMAL AND MOISTURE PROTECTION	
076200.A	PARAPET CAP. COLOR TO MATCH ADJACENT MTL WALL PANEL
076200.C	PRE-FINISHED METAL SCUPPER. COLOR TO MATCH GUTTER. SEE DETAIL 3 A4 ON SHEET A4.00.
079500.A	EXPANSION JOINT
08 OPENINGS	
083323.A	OVERHEAD COILING DOOR
087100.B	ADA AUTOMATIC DOOR OPERATOR BUTTON - RECESSED BOLLARD MOUNTED
21 FIRE SUPPRESSION	
211200.A	FIRE DEPARTMENT CONNECTION
22 PLUMBING	
220000.D	THROUGH-WALL VENT. REFER TO MEP. CENTER ON MTL WALL PANEL - TYPICAL. COLOR TO MATCH WALL PANEL.
220000.E	OVERFLOW ROOF DRAIN NOZZLE. REFER TO MEP FOR SIZING AND BUILDING ELEVATIONS FOR MOUNTING HEIGHT.
23 HVAC	
230000.A	ROOF TOP EQUIPMENT. REFER TO MEP.
230000.D	CONDENSING UNIT ON CONCRETE PAD. REFER TO MEP AND CIVIL.
239000.A	LOUVER. REF: MECHANICAL. COLOR BY ARCHITECT.
26 ELECTRICAL	
260000.A	LIGHT FIXTURE. REF. MEP
260000.B	ELECTRICAL EQUIPMENT
28 ELECTRONIC SAFETY & SECURITY	
280000.D	SOFFIT MOUNTED EXTERIOR PANORAMIC CAMERA. PAINT: COLOR TO MATCH ADJACENT SURFACE PER MANUFACTURER DIRECTIONS.
281300.A	CARD READER
32 EXTERIOR IMPROVEMENTS	
323119.A	DECORATIVE METAL GUARDRAIL. CLEAR ANODIZED ALUMINUM FINISH

GLAZING TYPES:

ALL EXTERIOR GLASS TO BE IG1, U.N.O.
ALL INTERIOR GLASS TO BE G1, U.N.O.
ALL GLAZING SHALL BE TEMPERED SAFETY GLAZING.

EXTERIOR:
IG1: 1" CLEAR INSULATED HIGH PERFORMANCE GLASS

INTERIOR:
G1: 3/8" CLEAR SAFETY GLASS

GLAZING FRAME KEY:

1CM6 — 2 1/2" X 7 1/2" - ALUMINUM CURTAIN WALL SYSTEM - PREFINISHED, EXTERIOR, THERMALLY BROKEN, CAPTURED, REINFORCED AS REQUIRED. FINISH: CLEAR ANODIZED.

1SM6 — 2" X 4 1/2" - ALUMINUM STOREFRONT SYSTEM - PREFINISHED, INTERIOR, THERMALLY BROKEN. FINISH: CLEAR ANODIZED.

BUILDING ELEVATION & SECTION LEGEND:

1 — ARCHITECTURALLY FINISHED C.I.P. CONCRETE
2 — BRICK VENEER - 3 COLOR BLEND. SEE ELEV. FOR PATTERN
3 — 12" WIDE STANDING SEAM METAL WALL PANEL - TYPE 1
4 — 12" WIDE VERTICAL METAL WALL PANEL - TYPE 3
5 — 30" WIDE VERTICAL METAL WALL PANEL - TYPE 2
6 — INTEGRALLY COLORED CMU

EXTERIOR FLASHING FINISHES:

(SEE SPEC FOR GAUGE / THICKNESS)

EF1: FINISH TO MATCH STANDING SEAM
EF2: FINISH TO MATCH ALUMINUM GLAZING SYSTEM
EF3: FINISH TO MATCH METAL WALL PANEL TYPE 3
EF4: FINISH TO MATCH METAL WALL PANEL TYPE 2

EXTERIOR FINISH NOTES:

1. CAST-IN PLACE CONCRETE: UTILIZE CLEAN FORMS AND VIBRATE AS NEEDED TO PREVENT HONEYCOMBING. **DO NOT PARGE COAT** OR APPLY ANY GROUT TO FACE OF WALL. REVIEW WITH ARCHITECT PRIOR TO GROUTING ANY FACE POPS.

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JONESBORO, ARKANSAS

REVISIONS:

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BUILDING ELEVATIONS
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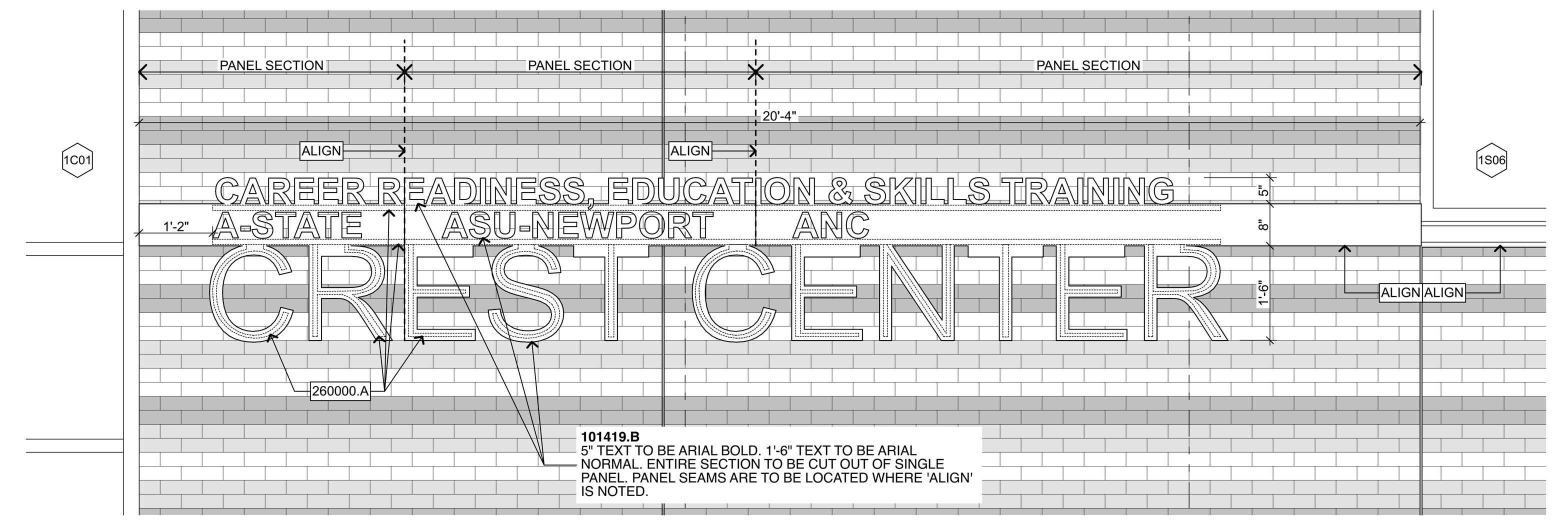
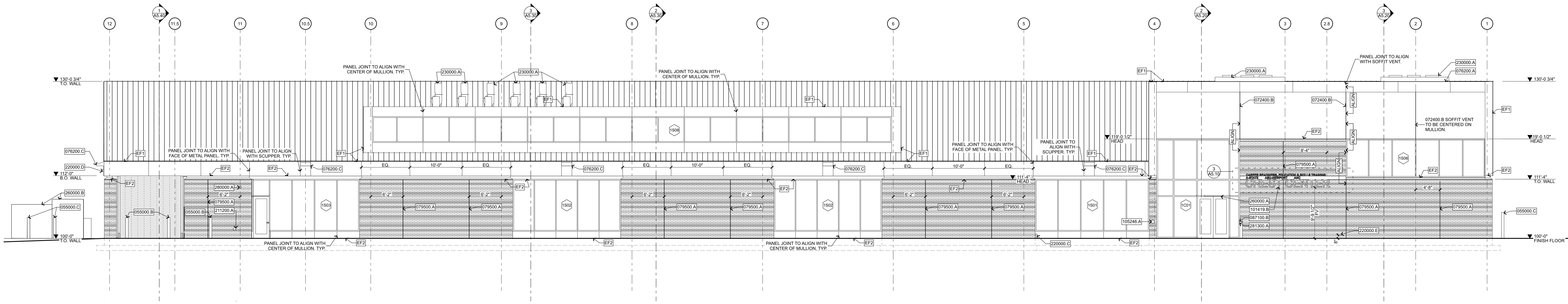
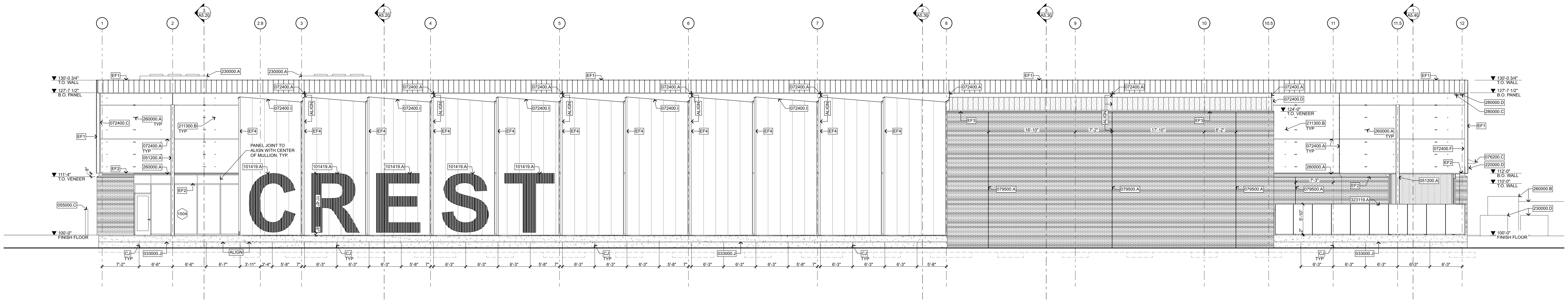


3 SIGNAGE ELEVATION
SCALE: 1/2" = 1'-0"



2 EAST ELEVATION
SCALE: 1/8" = 1'-0"



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

03 CONCRETE	
033000.J	CONCRETE 3/4" CHAMFER REVEAL
05 METALS	
051200.A	STRUCTURAL STEEL MEMBER - RE: STRUCT.
055000.B	6" x 48" REMOVABLE PIPE BOLLARD EQUAL TO IDEAL SHIELD 6" INTERNAL LOCKING BOLLARD. GALVANIZED AND PAINTED. COLOR BY ARCHITECT. FOOTING SIM. TO DETAIL 8/A6.100. INSTALL PER MANUFACTURER RECOMMENDATIONS.
055000.C	SITE BOLLARD. REFER TO CIVIL. PAINT.
07 THERMAL AND MOISTURE PROTECTION	
072400.A	1/2" MUD-IN VENTED REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
072400.B	1/2" MUD-IN VENTED REVEAL - COLOR: WHITE. REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
072400.C	1/2" MUD-IN "F" REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS.
072400.D	3" MUD-IN VENTED "F" REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
072400.F	1/2" MUD-IN VENTED "F" REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
072400.I	3" MUD-IN VENTED "Z" REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
076200.A	PARAPET CAP. COLOR TO MATCH ADJACENT MTL WALL PANEL
076200.C	PRE-FINISHED METAL SCUPPER. COLOR TO MATCH GUTTER. SEE DETAIL 3 &4 ON SHEET A4.00.
079500.A	EXPANSION JOINT
08 OPENINGS	
087100.B	ADA AUTOMATIC DOOR OPERATOR BUTTON - RECESSED BOLLARD MOUNTED
10 SPECIALTIES	
101419.A	3" DEEP PERFORATED METAL DECK CUT INTO LETTERS. INSTALL FLUTES VERTICALLY. COORDINATE PANEL JOINTS WITH ARCHITECT. PANELS SHALL BE MOUNTED WITH 2" STAND-OFFS. POWDERCOAT FINISH. COLOR: ASU RED. 11'-6" TALL LETTERS. FONT: ARIAL BOLD. CENTER LETTER OF WALL - TYPICAL.
101419.B	ALUMINUM BUILDING SIGNAGE. CONCEALED MOUNTED WITH 2" STAND-OFFS. SIZE AND FONT PER ELEVATION 3/A5.10.
105246.A	RECESSED KNOX BOX MOUNTED @ 5'-0" A.F.F. FINISH: ALUMINUM

21 FIRE SUPPRESSION	
211200.A	FIRE DEPARTMENT CONNECTION
211300.B	FIRE-SUPPRESSION CONCEALED SPRINKLER HEAD. COLOR: RED. CUSTOM COLOR TO MATCH SOFFIT.
22 PLUMBING	
220000.C	GAS ENTRANCE. REFER TO PLUMBING & CIVIL. PIPE SHALL PENETRATE EXTERIOR WALL 1'-0" A.F.F. MAXIMUM. PIPE SHALL BE PAINTED TO MATCH BRICK VENEER WHERE EXPOSED TO VIEW.
220000.D	THROUGH-WALL VENT. REFER TO MEP. CENTER ON MTL WALL PANEL - TYPICAL. COLOR TO MATCH WALL PANEL.
220000.E	OVERFLOW ROOF DRAIN NOZZLE. REFER TO MEP FOR SIZING AND BUILDING ELEVATIONS FOR MOUNTING HEIGHT.
23 HVAC	
230000.A	ROOF TOP EQUIPMENT. REFER TO MEP.
230000.D	CONDENSING UNIT ON CONCRETE PAD. REFER TO MEP AND CIVIL.
26 ELECTRICAL	
260000.A	LIGHT FIXTURE. REF MEP
260000.B	ELECTRICAL EQUIPMENT
28 ELECTRONIC SAFETY & SECURITY	
280000.A	FIRE ALARM STROBE
280000.C	SOFFIT MOUNTED EXTERIOR DIRECTIONAL CAMERA - FACING NORTH. PAINT: COLOR TO MATCH ADJACENT SURFACE PER MANUFACTURER DIRECTIONS.
280000.D	SOFFIT MOUNTED EXTERIOR PANORAMIC CAMERA. PAINT: COLOR TO MATCH ADJACENT SURFACE PER MANUFACTURER DIRECTIONS.
281300.A	CARD READER
32 EXTERIOR IMPROVEMENTS	
323119.A	DECORATIVE METAL GUARDRAIL. CLEAR ANODIZED ALUMINUM FINISH

GLAZING TYPES:

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ALL INTERIOR GLASS TO BE G1, U.N.O.
ALL GLAZING SHALL BE TEMPERED SAFETY GLAZING.

EXTERIOR:
IG1: 1" CLEAR INSULATED HIGH PERFORMANCE GLASS

INTERIOR:
G1: 3/8" CLEAR SAFETY GLASS

GLAZING FRAME KEY:

1C## — 2 1/2" X 7 1/2" - ALUMINUM CURTAIN WALL SYSTEM - PREFINISHED, EXTERIOR, THERMALLY BROKEN, CAPTURED, REINFORCED AS REQUIRED. FINISH: CLEAR ANODIZED.

1S## — 2" X 4 1/2" - ALUMINUM STOREFRONT SYSTEM - PREFINISHED, INTERIOR, THERMALLY BROKEN. FINISH: CLEAR ANODIZED.

BUILDING ELEVATION & SECTION LEGEND:

1. ARCHITECTURALLY FINISHED C.I.P. CONCRETE
2. BRICK VENEER - 3 COLOR BLEND. SEE ELEV. FOR PATTERN
3. 12" WIDE STANDING SEAM METAL WALL PANEL - TYPE 1
4. 12" WIDE VERTICAL METAL WALL PANEL - TYPE 3
5. 30" WIDE VERTICAL METAL WALL PANEL - TYPE 2
6. INTEGRALLY COLORED CMU

EXTERIOR FLASHING FINISHES:

(SEE SPEC FOR GAUGE / THICKNESS)

EF1: FINISH TO MATCH STANDING SEAM
EF2: FINISH TO MATCH ALUMINUM GLAZING SYSTEM
EF3: FINISH TO MATCH METAL WALL PANEL TYPE 3
EF4: FINISH TO MATCH METAL WALL PANEL TYPE 2

EXTERIOR FINISH NOTES:

1. CAST-IN PLACE CONCRETE: UTILIZE CLEAN FORMS AND VIBRATE AS NEEDED TO PREVENT HONEYCOMBING. **DO NOT PARGE COAT** OR APPLY ANY GROUT TO FACE OF WALL. REVIEW WITH ARCHITECT PRIOR TO GROUTING ANY FACE POPS.

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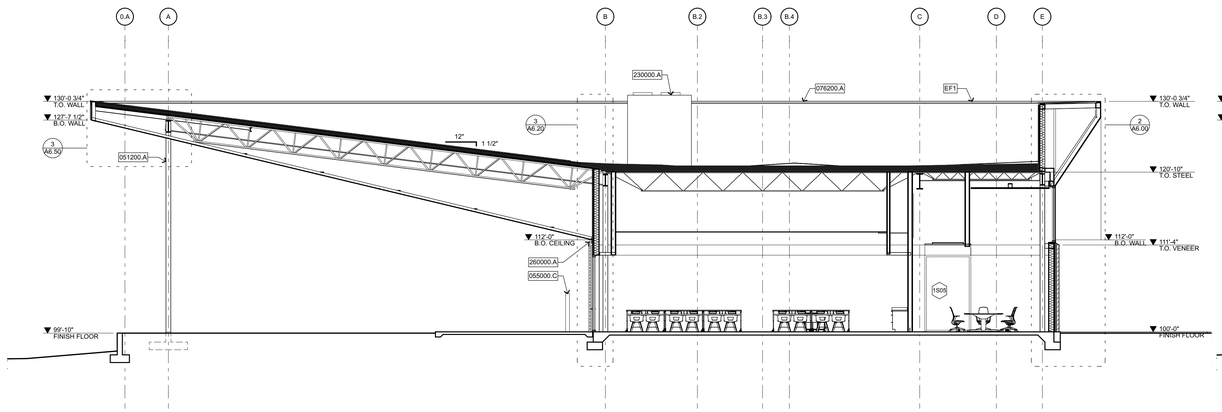
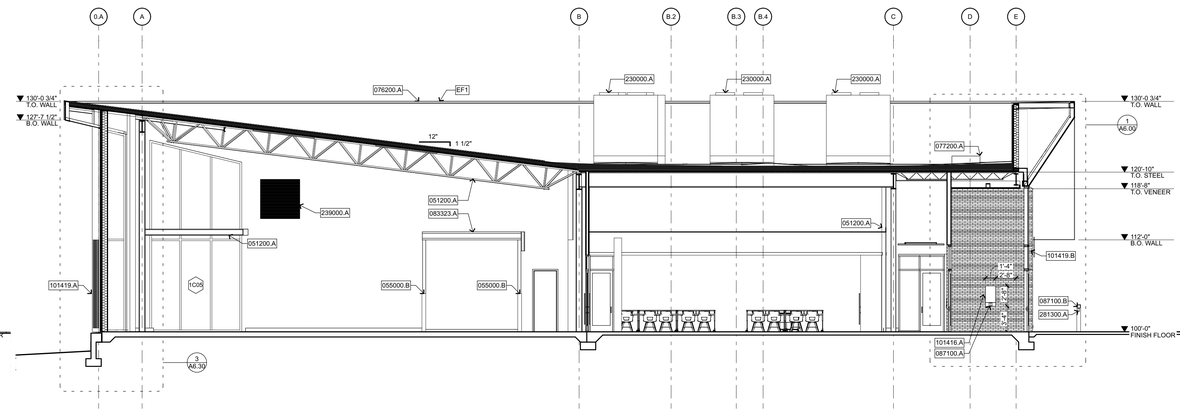
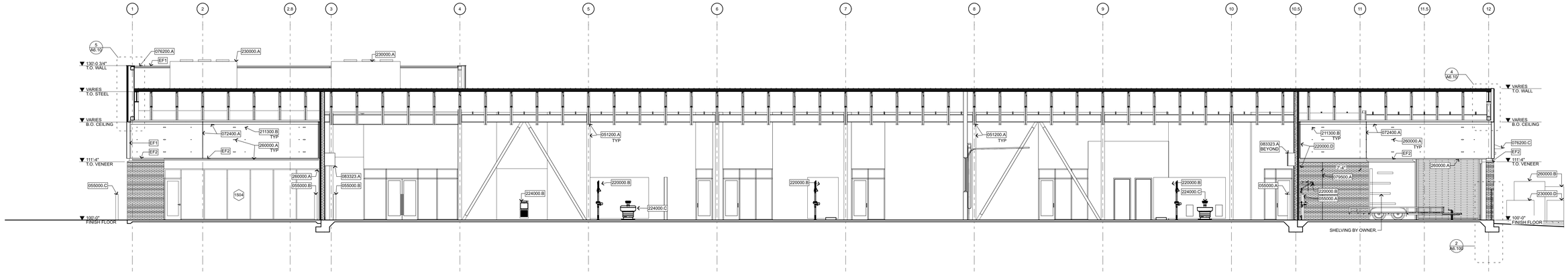


3 BUILDING SECTION
SCALE: 1/8" = 1'-0"



2 BUILDING SECTION
SCALE: 1/8" = 1'-0"



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

05 METALS	
051200.A	STRUCTURAL STEEL MEMBER - RE: STRUCT.
055000.A	6" DIA. CONCRETE FILLED STEEL PIPE BOLLARD. PAINT. REFER TO DETAIL 8/A6.100.
055000.B	6" x 48" REMOVABLE PIPE BOLLARD EQUAL TO IDEAL SHIELD 6" INTERNAL LOCKING BOLLARD. GALVANIZED AND PAINTED. COLOR BY ARCHITECT. FOOTING SIM. TO DETAIL 8/A6.100. INSTALL PER MANUFACTURER RECOMMENDATIONS.
055000.C	SITE BOLLARD. REFER TO CIVIL. PAINT.
07 THERMAL AND MOISTURE PROTECTION	
072400.A	1/2" MUD-IN VENTED REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
076200.A	PARAPET CAP. COLOR TO MATCH ADJACENT MTL WALL PANEL
076200.C	PRE-FINISHED METAL SCUPPER. COLOR TO MATCH GUTTER. SEE DETAIL 3 &4 ON SHEET A4.00.
077200.A	ROOF ACCESS HATCH AND LADDER.
079500.A	EXPANSION JOINT
08 OPENINGS	
083323.A	OVERHEAD COILING DOOR
087100.A	ADA AUTOMATIC DOOR OPERATOR BUTTON - RECESSED WALL MOUNTED
087100.B	ADA AUTOMATIC DOOR OPERATOR BUTTON - RECESSED BOLLARD MOUNTED
10 SPECIALTIES	
101416.A	1'-4"W X 2'-8"T ALUMINUM BUILDING PLAQUE. CONCEALED MOUNTED.
101419.A	3" DEEP PERFORATED METAL DECK CUT INTO LETTERS. INSTALL FLUTES VERTICALLY. COORDINATE PANEL JOINTS WITH ARCHITECT. PANELS SHALL BE MOUNTED WITH 2" STAND-OFFS. POWDERCOAT FINISH. COLOR: ASU RED. 11'-6" TALL LETTERS. FONT: ARIAL BOLD. CENTER LETTER OF WALL - TYPICAL.
101419.B	ALUMINUM BUILDING SIGNAGE. CONCEALED MOUNTED WITH 2" STAND-OFFS. SIZE AND FONT PER ELEVATION 3/A5.10.
21 FIRE SUPPRESSION	
211300.B	FIRE-SUPPRESSION CONCEALED SPRINKLER HEAD. COLOR: RED. CUSTOM COLOR TO MATCH SOFFIT.
22 PLUMBING	
220000.B	EMERGENCY EYE/ FACE WASH W/ SHOWER - RE: MEP.
220000.D	THROUGH-WALL VENT. REFER TO MEP CENTER ON MTL WALL PANEL - TYPICAL. COLOR TO MATCH WALL PANEL
224000.B	DRINKING FOUNTAIN WITH BOTTLE FILLER - RE: MEP.
224000.C	PUMBING FIXTURE - RE: MEP.
23 HVAC	
230000.A	ROOF TOP EQUIPMENT. REFER TO MEP.
230000.D	CONDENSING UNIT ON CONCRETE PAD. REFER TO MEP AND CIVIL
239000.A	LOUVER. REF: MECHANICAL. COLOR BY ARCHITECT.
26 ELECTRICAL	
260000.A	LIGHT FIXTURE. REF: MEP
260000.B	ELECTRICAL EQUIPMENT
28 ELECTRONIC SAFETY & SECURITY	
281300.A	CARD READER

GLAZING TYPES:

ALL EXTERIOR GLASS TO BE IG1, U.N.O.
ALL INTERIOR GLASS TO BE G1, U.N.O.
ALL GLAZING SHALL BE TEMPERED SAFETY GLAZING.

EXTERIOR:
IG1: 1" CLEAR INSULATED HIGH PERFORMANCE GLASS

INTERIOR:
G1: 3/8" CLEAR SAFETY GLASS

GLAZING FRAME KEY:

1CH6 — 2 1/2" X 7 1/2" - ALUMINUM CURTAIN WALL SYSTEM - PREFINISHED, EXTERIOR, THERMALLY BROKEN, CAPTURED, REINFORCED AS REQUIRED. FINISH: CLEAR ANODIZED.

1SH6 — 2" X 4 1/2" - ALUMINUM STOREFRONT SYSTEM - PREFINISHED, INTERIOR, THERMALLY BROKEN. FINISH: CLEAR ANODIZED.

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5 — 30" WIDE VERTICAL METAL WALL PANEL - TYPE 2
6 — INTEGRALLY COLORED CMU

EXTERIOR FLASHING FINISHES:

(SEE SPEC FOR GAUGE / THICKNESS)

EF1: FINISH TO MATCH STANDING SEAM
EF2: FINISH TO MATCH ALUMINUM GLAZING SYSTEM
EF3: FINISH TO MATCH METAL WALL PANEL TYPE 3
EF4: FINISH TO MATCH METAL WALL PANEL TYPE 2

EXTERIOR FINISH NOTES:

1. CAST-IN PLACE CONCRETE: UTILIZE CLEAN FORMS AND VIBRATE AS NEEDED TO PREVENT HONEYCOMBING. **DO NOT PARGE COAT** OR APPLY ANY GROUT TO FACE OF WALL. REVIEW WITH ARCHITECT PRIOR TO GROUTING ANY FACE POPS.

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BUILDING SECTIONS
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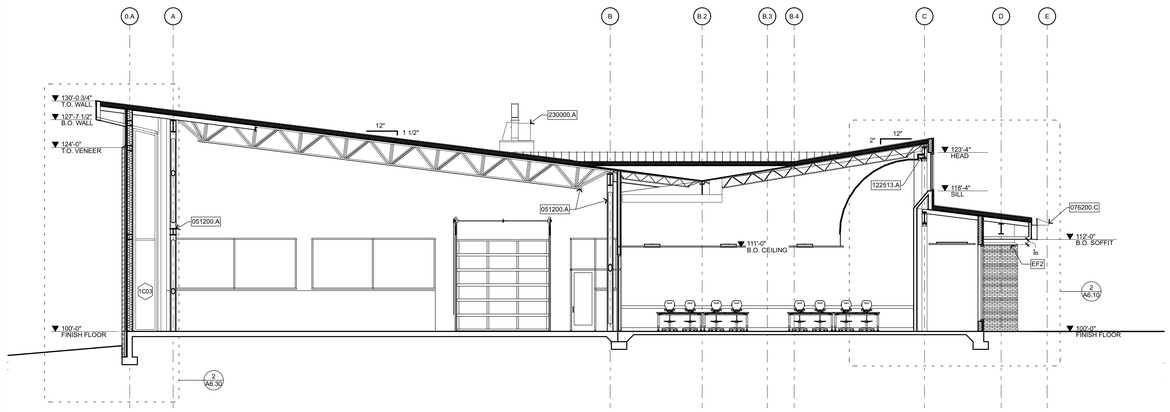
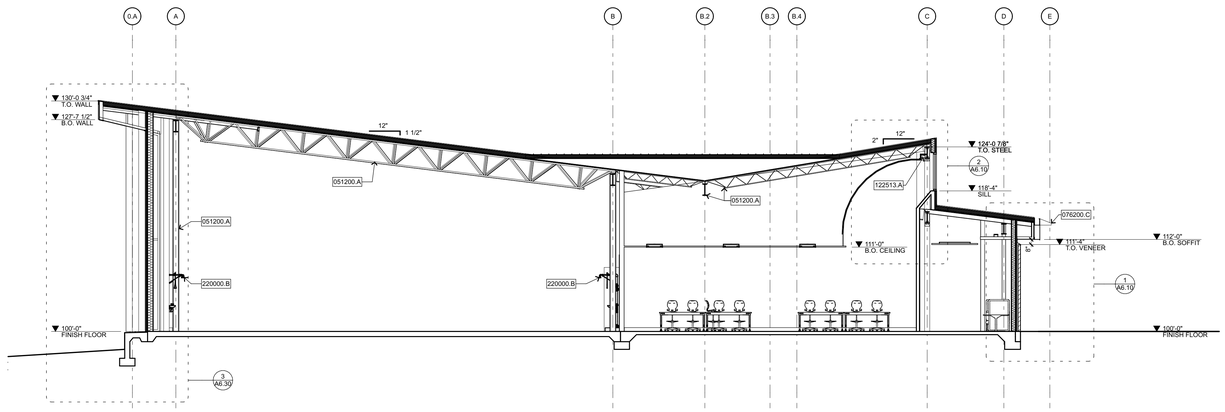


3 **BUILDING SECTION**
SCALE: 1/8" = 1'-0"



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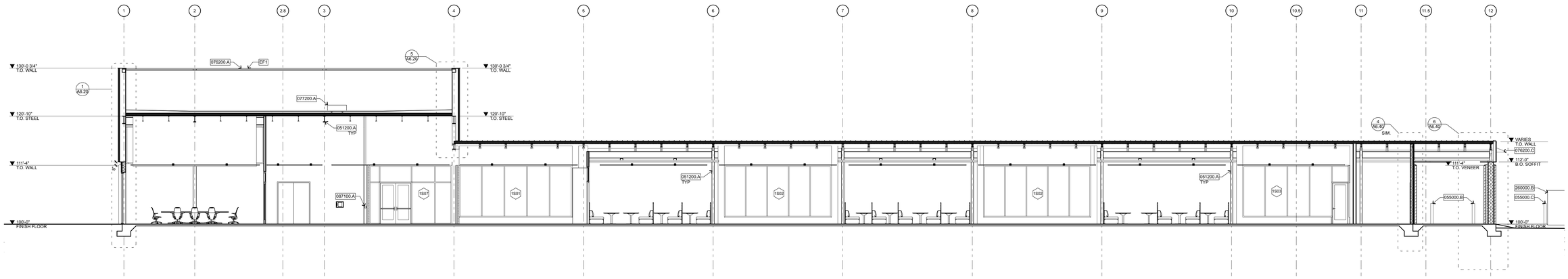
SCALE: 1/8" = 1'-0"



1 **BUILDING SECTION**
SCALE: 1/8" = 1'-0"

05 METALS	
051200.A	STRUCTURAL STEEL MEMBER - RE: STRUCT.
055000.B	6" x 48" REMOVABLE PIPE BOLLARD EQUAL TO IDEAL SHIELD 6" INTERNAL LOCKING BOLLARD. GALVANIZED AND PAINTED. COLOR BY ARCHITECT. FOOTING SIM. TO DETAIL 8/A6.100. INSTALL PER MANUFACTURER RECOMMENDATIONS.
055000.C	SITE BOLLARD. REFER TO CIVIL. PAINT.
07 THERMAL AND MOISTURE PROTECTION	
076200.A	PARAPET CAP COLOR TO MATCH ADJACENT MTL WALL PANEL
076200.C	PRE-FINISHED METAL SCUPPER. COLOR TO MATCH GUTTER. SEE DETAIL 3 &4 ON SHEET A4.00.
077200.A	ROOF ACCESS HATCH AND LADDER.
08 OPENINGS	
087100.A	ADA AUTOMATIC DOOR OPERATOR BUTTON - RECESSED WALL MOUNTED
12 FURNISHINGS	
122513.A	MOTORIZED WINDOW ROLLER SHADE
22 PLUMBING	
220000.B	EMERGENCY EYE/ FACE WASH W/ SHOWER - RE: MEP.
23 HVAC	
230000.A	ROOF TOP EQUIPMENT. REFER TO MEP.
26 ELECTRICAL	
260000.B	ELECTRICAL EQUIPMENT

GLAZING TYPES:

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ALL INTERIOR GLASS TO BE G1, U.N.O.
ALL GLAZING SHALL BE TEMPERED SAFETY GLAZING.

EXTERIOR:
IG1: 1" CLEAR INSULATED HIGH PERFORMANCE GLASS

INTERIOR:
G1: 3/8" CLEAR SAFETY GLASS

GLAZING FRAME KEY:

1CW6 — 2 1/2" X 7 1/2" - ALUMINUM CURTAIN WALL SYSTEM - PREFINISHED, EXTERIOR, THERMALLY BROKEN, CAPTURED, REINFORCED AS REQUIRED. FINISH: CLEAR ANODIZED.

1SW6 — 2" X 4 1/2" - ALUMINUM STOREFRONT SYSTEM - PREFINISHED, INTERIOR, THERMALLY BROKEN. FINISH: CLEAR ANODIZED.

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(SEE SPEC FOR GAUGE / THICKNESS)

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EF2: FINISH TO MATCH ALUMINUM GLAZING SYSTEM
EF3: FINISH TO MATCH METAL WALL PANEL TYPE 3
EF4: FINISH TO MATCH METAL WALL PANEL TYPE 2

EXTERIOR FINISH NOTES:

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BUILDING SECTIONS
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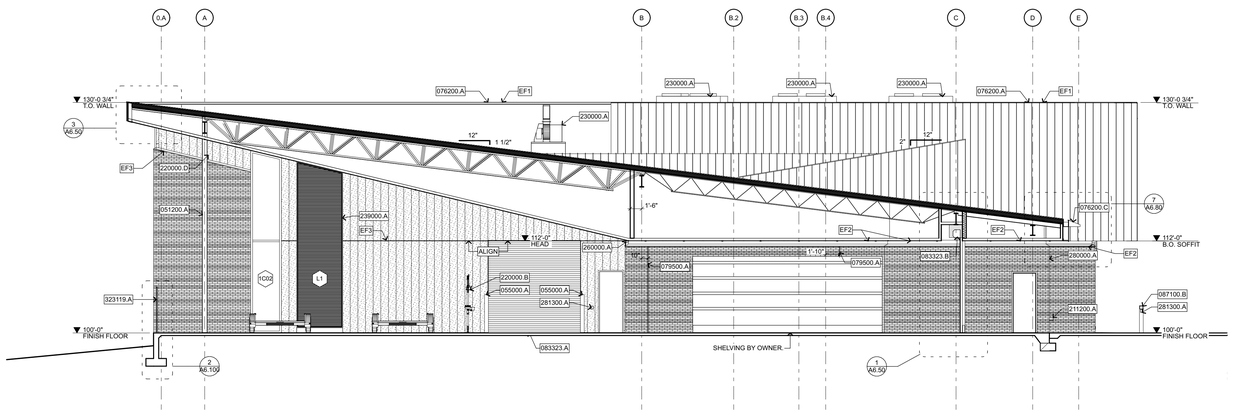
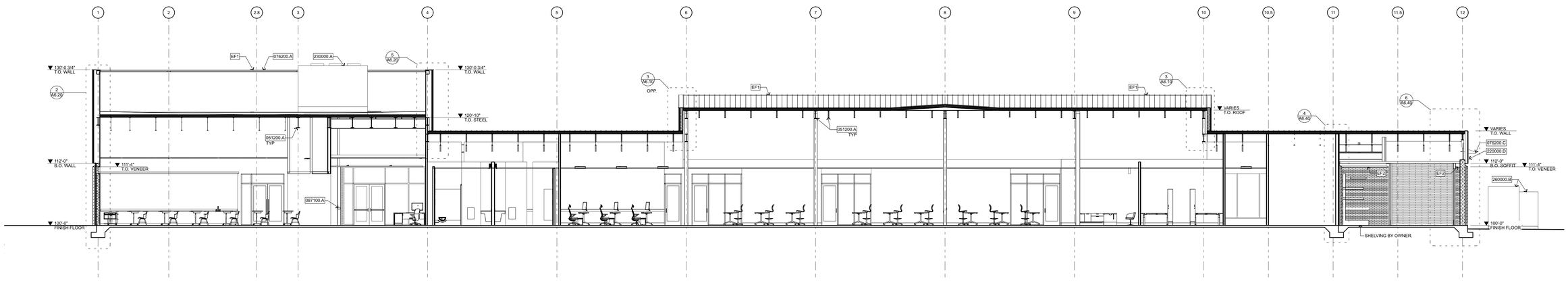


1 BUILDING SECTION
SCALE: 1/8" = 1'-0"



2 BUILDING SECTION
SCALE: 1/8" = 1'-0"

05 METALS	
051200.A	STRUCTURAL STEEL MEMBER - RE: STRUCT.
055000.A	6" DIA. CONCRETE FILLED STEEL PIPE BOLLARD. PAINT. REFER TO DETAIL 8/A6.100
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076200.A	PARAPET CAP. COLOR TO MATCH ADJACENT MTL WALL PANEL
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079500.A	EXPANSION JOINT
08 OPENINGS	
083323.A	OVERHEAD COILING DOOR
083323.B	OVERHEAD COILING SECURITY GRILLE
087100.A	ADA AUTOMATIC DOOR OPERATOR BUTTON - RECESSED WALL MOUNTED
087100.B	ADA AUTOMATIC DOOR OPERATOR BUTTON - RECESSED BOLLARD MOUNTED
21 FIRE SUPPRESSION	
211200.A	FIRE DEPARTMENT CONNECTION
22 PLUMBING	
220000.B	EME[RGENCY EYE/ FACE WASH W/ SHOWER - RE: MEP
220000.D	THROUGH-WALL VENT. REFER TO MEP. CENTER ON MTL WALL PANEL - TYPICAL. COLOR TO MATCH WALL PANEL.
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230000.A	ROOF TOP EQUIPMENT. REFER TO MEP.
239000.A	LOUVER. REF: MECHANICAL. COLOR BY ARCHITECT.
26 ELECTRICAL	
260000.A	LIGHT FIXTURE. REF MEP.
260000.B	ELECTRICAL EQUIPMENT.
28 ELECTRONIC SAFETY & SECURITY	
280000.A	FIRE ALARM STROBE
281300.A	CARD READER
32 EXTERIOR IMPROVEMENTS	
323119.A	DECORATIVE METAL GUARDRAIL. CLEAR ANODIZED ALUMINUM FINISH

GLAZING TYPES:

ALL EXTERIOR GLASS TO BE IG1, U.N.O.
ALL INTERIOR GLASS TO BE G1, U.N.O.
ALL GLAZING SHALL BE TEMPERED SAFETY GLAZING.

EXTERIOR:
IG1: 1" CLEAR INSULATED HIGH PERFORMANCE GLASS

INTERIOR:
G1: 3/8" CLEAR SAFETY GLASS

GLAZING FRAME KEY:

1C## 2 1/2" X 7 1/2" - ALUMINUM CURTAIN WALL SYSTEM - PREFINISHED, EXTERIOR, THERMALLY BROKEN, CAPTURED, REINFORCED AS REQUIRED. FINISH: CLEAR ANODIZED.

1S## 2" X 4 1/2" - ALUMINUM STOREFRONT SYSTEM - PREFINISHED, INTERIOR, THERMALLY BROKEN. FINISH: CLEAR ANODIZED.

BUILDING ELEVATION & SECTION LEGEND:

1 ARCHITECTURALLY FINISHED C.I.P. CONCRETE
2 BRICK VENEER - 3 COLOR BLEND. SEE ELEV. FOR PATTERN
3 12" WIDE STANDING SEAM METAL WALL PANEL - TYPE 1
4 12" WIDE VERTICAL METAL WALL PANEL - TYPE 3
5 30" WIDE VERTICAL METAL WALL PANEL - TYPE 2
6 INTEGRALLY COLORED CMU

EXTERIOR FLASHING FINISHES:

(SEE SPEC FOR GAUGE / THICKNESS)

EF1: FINISH TO MATCH STANDING SEAM
EF2: FINISH TO MATCH ALUMINUM GLAZING SYSTEM
EF3: FINISH TO MATCH METAL WALL PANEL TYPE 3
EF4: FINISH TO MATCH METAL WALL PANEL TYPE 2

EXTERIOR FINISH NOTES:

1. CAST-IN PLACE CONCRETE: UTILIZE CLEAN FORMS AND VIBRATE AS NEEDED TO PREVENT HONEYCOMBING. **DO NOT PARGE COAT** OR APPLY ANY GROUT TO FACE OF WALL. REVIEW WITH ARCHITECT PRIOR TO GROUTING ANY FACE POPS.

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

Andrew Harold Wells - Architect AR #4256
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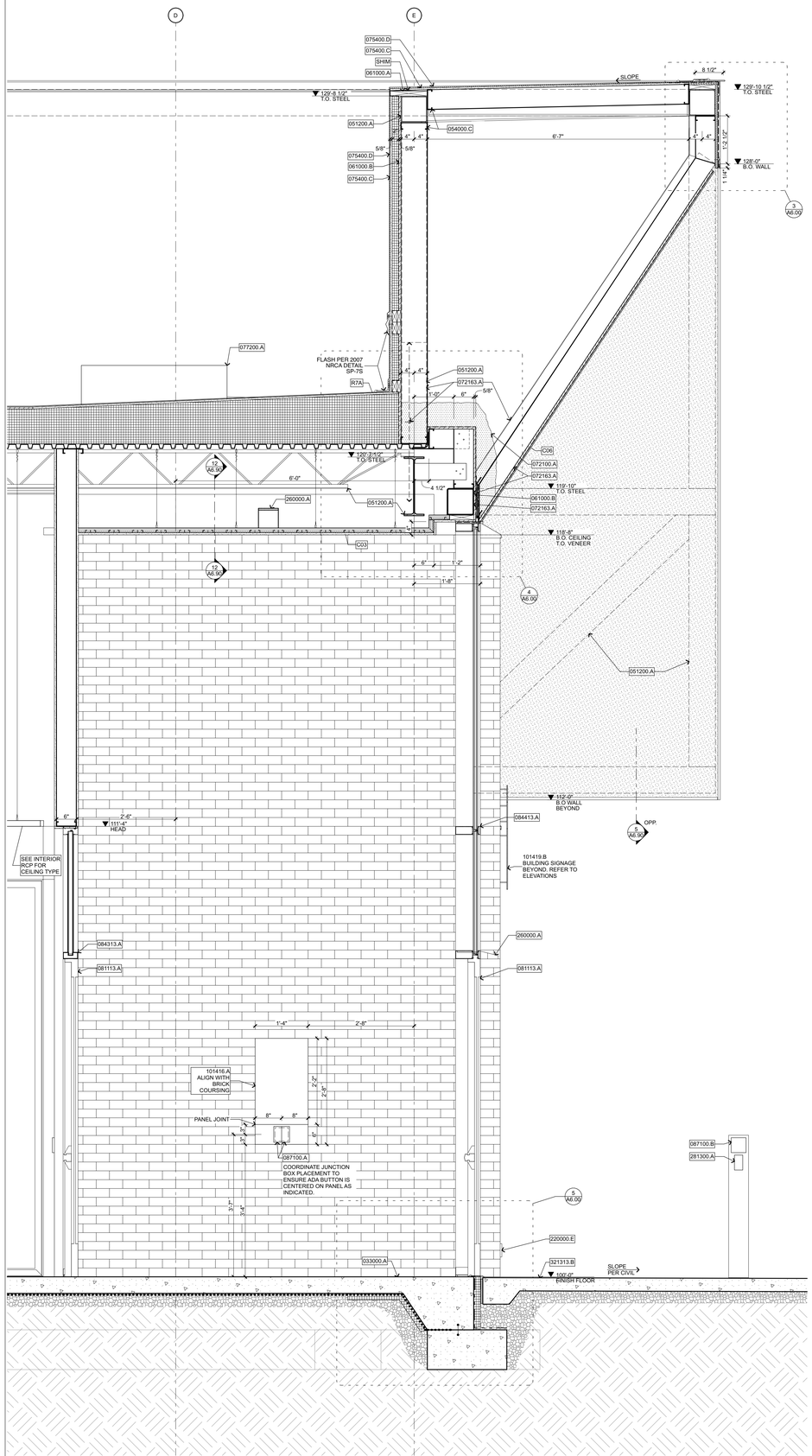
JONESBORO, ARKANSAS

REVISIONS:

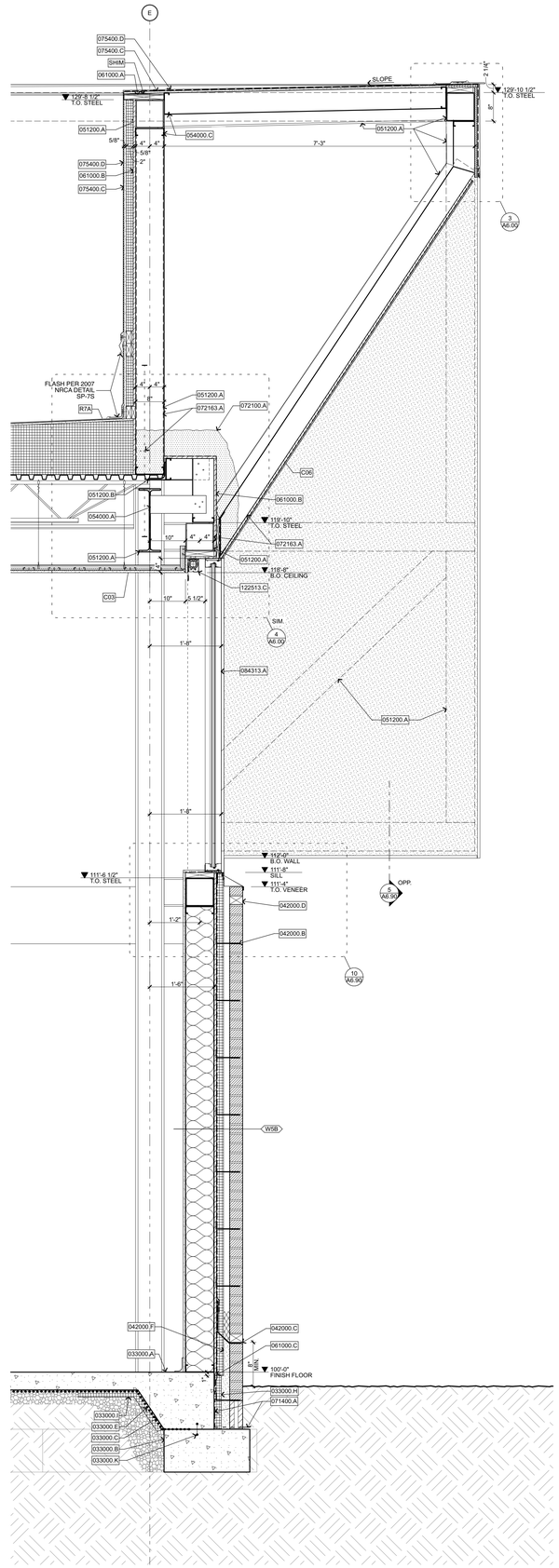
100% CONSTRUCTION DOCUMENTS
05-18-2026

BUILDING SECTIONS
A5.40

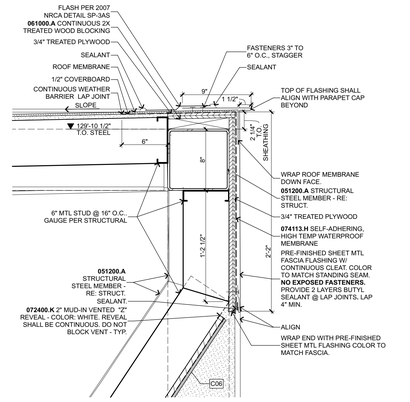
18-0004.A 04.07
AD



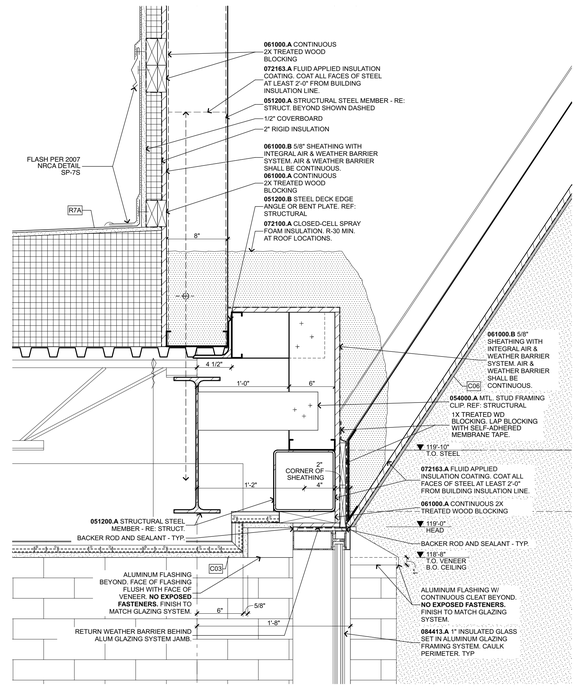
1 WALL SECTION
SCALE: 3/4" = 1'-0"



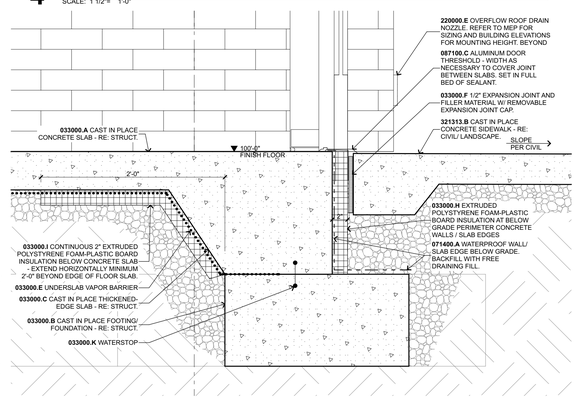
2 WALL SECTION
SCALE: 3/4" = 1'-0"



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



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



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

ROOF TYPES:

R7A: T.P.O. SINGLE PLY MEMBRANE OVER 1/2" COVERBOARD OVER MINIMUM (2) LAYERS OF POLYISO STAGGERED. BOARD INSULATION TO EQUAL MINIMUM R-30 (OR IF TAPERED R-30 MIN VALUE) OVER METAL DECK PER STRUCTURAL.

R7B: STANDING SEAM METAL ROOF PANEL OVER CONTINUOUS SELF-ADHERING, HIGH TEMP WATERPROOFING SHEET MEMBRANE OVER 5/8" SHEATHING OVER MINIMUM (2) LAYERS OF POLYISO STAGGERED (R-30 MIN VALUE) OVER METAL DECK PER STRUCTURAL.

CEILING TYPES:

C03: 5/8" GYPSUM BOARD OVER DRYWALL SUSPENSION SYSTEM

C04: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: RED TEXTURE TYPE 1

C05: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: WHITE. TEXTURE TYPE 1.

C06: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: WHITE. TEXTURE TYPE 2.

WALL TYPES:

DIVISION 03

W3A: 8" ARCHITECTURALLY FINISHED CAST-IN-PLACE CONCRETE WALL. (FACE EXPOSED TO VIEW ONLY)
WATER-PROOFING (REF. SECTION DETAILS FOR LOCATION)

NOTE: PROVIDE CONTINUOUS DAMP-PROOFING BELOW GRADE ON FINISHED FACE SIDE. REF. SECTION DETAILS.

DIVISION 04

W4A: BRICK VENEER
AIR SPACE
12" CMU

W4B: BRICK VENEER
AIR SPACE
12" CMU
AIR SPACE
BRICK VENEER

DIVISION 05

W5A: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5B: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5C: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5D: METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5E: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
METAL PANEL (TYPE 3)

W5F: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
5/8" TREATED PLYWOOD SHEATHING
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5G: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
2.6" COMPOSITE INSULATION PANEL
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5H: DIRECT APPLIED FINISH SYSTEM - TEXTURE TYPE 2.
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5I: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5J: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

03 CONCRETE		
033000.A	CAST IN PLACE CONCRETE SLAB - RE: STRUCT.	
033000.B	CAST IN PLACE FOOTING/FOUNDATION - RE: STRUCT.	
033000.C	CAST IN PLACE THICKENED-EDGE SLAB - RE: STRUCT.	
033000.E	UNDERSLAB VAPOR BARRIER	
033000.F	1/2" EXPANSION JOINT AND FILLER MATERIAL W/ REMOVABLE EXPANSION JOINT CAP	
033000.H	EXTRUDED POLYSTYRENE FOAM-PLASTIC BOARD INSULATION AT BELOW GRADE PERIMETER CONCRETE WALLS / SLAB EDGES	
033000.I	CONTINUOUS 2" EXTRUDED POLYSTYRENE FOAM-PLASTIC BOARD INSULATION BELOW CONCRETE SLAB - EXTEND HORIZONTALLY MINIMUM 2'-0" BEYOND EDGE OF FLOOR SLAB.	
033000.K	WATERSTOP	
04 MASONRY		
042000.B	MASONRY TIE/ANCHOR, TYP.	
042000.C	CONTINUOUS THRU-WALL FLEXIBLE FLASHING WITH CONTINUOUS MORTAR DRAINAGE MATERIAL AND WEEPS @ 24" O.C. TYP.	
042000.D	MASONRY VENTS @ 24" O.C., TYPICAL	
042000.F	GROUT AND FILL CAVITY SOLID @ LAST COURSE BELOW WEEPS/ THRU-WALL FLASHING	
05 METALS		
051200.A	STRUCTURAL STEEL MEMBER - RE: STRUCT.	
051200.B	STEEL DECK EDGE ANGLE OR BENT PLATE. REF: STRUCTURAL	
054000.A	MTL. STUD FRAMING CLIP. REF: STRUCTURAL	
054000.C	MTL STUD FRAMING @ 16" O.C. GAUGE PER STRUCTURAL	
06 WOODS, PLASTICS, & COMPOSITES		
061000.A	CONTINUOUS 2X TREATED WOOD BLOCKING	
061000.B	5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER SYSTEM. AIR & WEATHER BARRIER SHALL BE CONTINUOUS.	
061000.C	5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER SYSTEM. AIR & WEATHER BARRIER SHALL BE CONTINUOUS. LAP FOR POSITIVE DRAINAGE.	
07 THERMAL AND MOISTURE PROTECTION		
071400.A	WATERPROOF WALL/SLAB EDGE BELOW GRADE. BACKFILL WITH FREE DRAINING FILL	
072100.A	CLOSED-CELL SPRAY FOAM INSULATION. R-30 MIN. AT ROOF LOCATIONS.	
072163.A	FLUID APPLIED INSULATION COATING. COAT ALL FACES OF STEEL AT LEAST 2'-0" FROM BUILDING INSULATION LINE.	
072400.K	2" MUD-IN VENTED "Z" REVEAL - COLOR: WHITE. REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.	
074113.H	SELF-ADHERING, HIGH TEMP WATERPROOF MEMBRANE	
075400.C	1/2" COVERBOARD	
075400.D	ROOF MEMBRANE	
077200.A	ROOF ACCESS HATCH AND LADDER	
08 OPENINGS		
081113.A	DOOR AND FRAME - REF: DOOR SCHEDULE FOR TYPES.	
084313.A	EXTERIOR THERMALLY BROKEN ALUMINUM FRAMED STOREFRONT	
084413.A	1" INSULATED GLASS SET IN ALUMINUM GLAZING FRAMING SYSTEM. CAULK PERIMETER. TYP	
087100.A	ADA AUTOMATIC DOOR OPERATOR BUTTON - RECESSED WALL MOUNTED	
087100.B	ADA AUTOMATIC DOOR OPERATOR BUTTON – RECESSED BOLLARD MOUNTED	
087100.C	ALUMINUM DOOR THRESHOLD - WIDTH AS NECESSARY TO COVER JOINT BETWEEN SLABS. SET IN FULL BED OF SEALANT.	
10 SPECIALTIES		
101416.A	1'-4"W X 2'-8"T ALUMINUM BUILDING PLAQUE. CONCEALED MOUNTED.	
101419.B	ALUMINUM BUILDING SIGNAGE. CONCEALED MOUNTED WITH 2" STAND-OFFS. SIZE AND FONT PER ELEVATION 3/A5.10.	
12 FURNISHINGS		
122513.C	ROLLER SHADE WITH FASCIA BY WINDOW SHADE MANUFACTUER. COLOR BY ARCHITECT.	
22 PLUMBING		
220000.E	OVERFLOW ROOF DRAIN NOZZLE. REFER TO MEP FOR SIZING AND BUILDING ELEVATIONS FOR MOUNTING HEIGHT.	
26 ELECTRICAL		
260000.A	LIGHT FIXTURE. REF MEP	
28 ELECTRONIC SAFETY & SECURITY		
281300.A	CARD READER	
32 EXTERIOR IMPROVEMENTS		
321313.B	CAST IN PLACE CONCRETE SIDEWALK - RE: CIVIL/ LANDSCAPE.	

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JONESBORO, ARKANSAS

REVISIONS:

100% CONSTRUCTION DOCUMENTS
05-18-2026

WALL SECTIONS & DETAILS
A6.00

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5/18/2026

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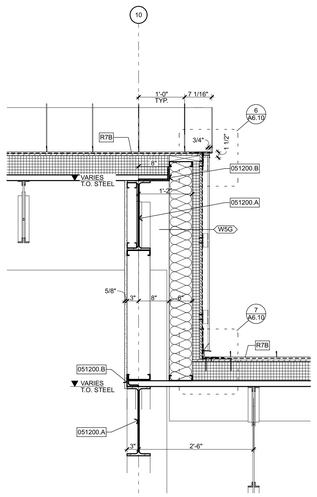
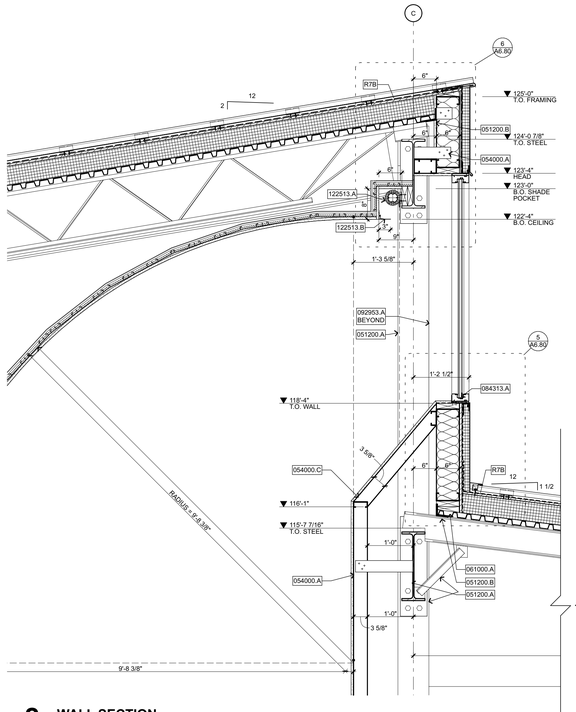
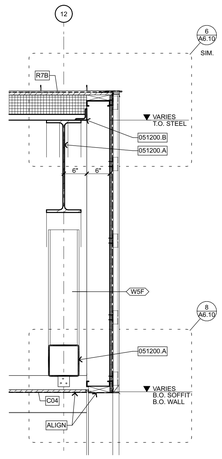
A6.00



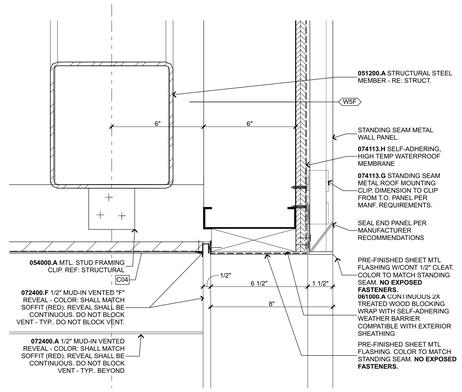
3 WALL SECTION
SCALE: 3/4" = 1'-0"



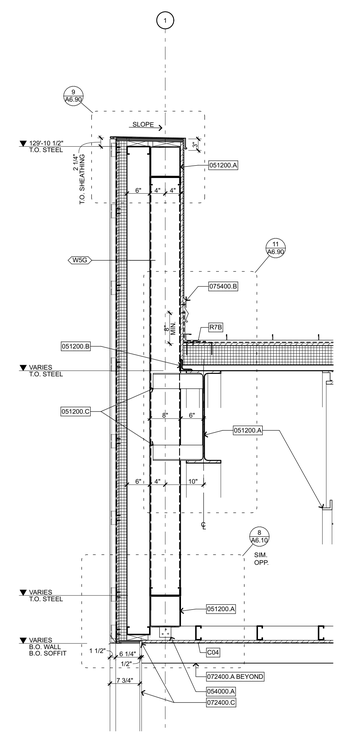
2 WALL SECTION
SCALE: 3/4" = 1'-0"



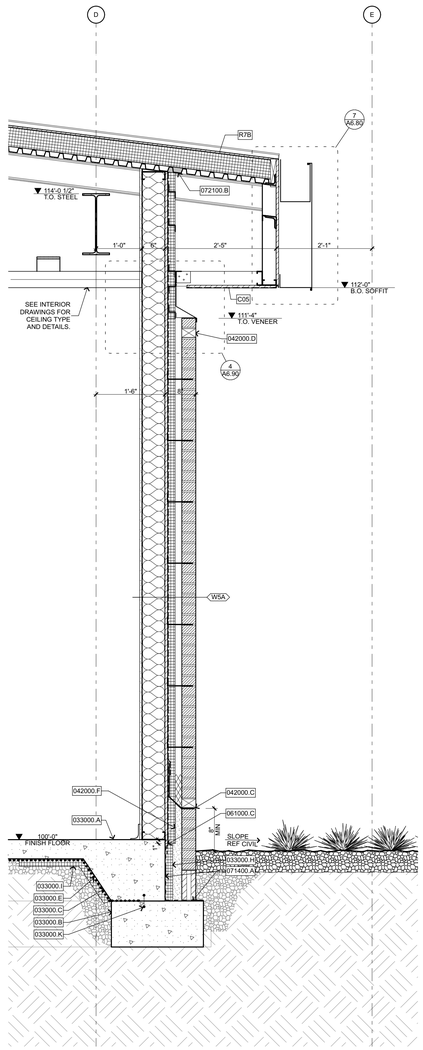
4 WALL SECTION
SCALE: 3/4" = 1'-0"



8 SECTION DETAIL
SCALE: 3" = 1'-0"



5 WALL SECTION
SCALE: 3/4" = 1'-0"



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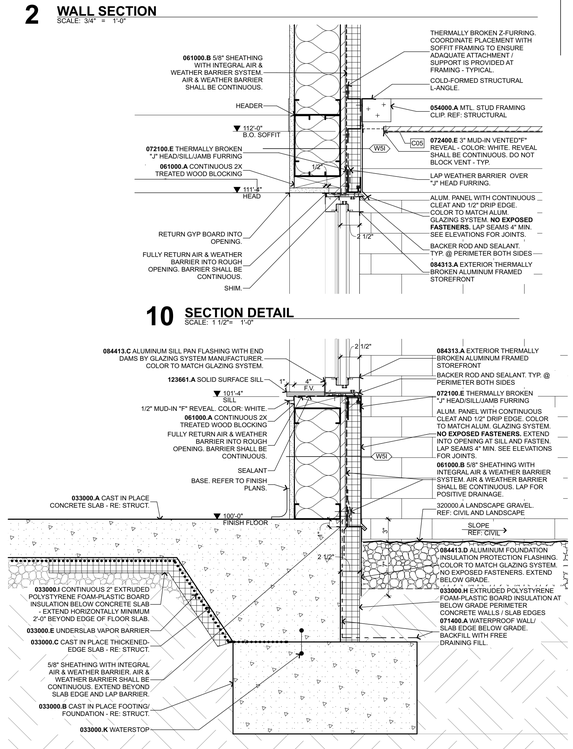
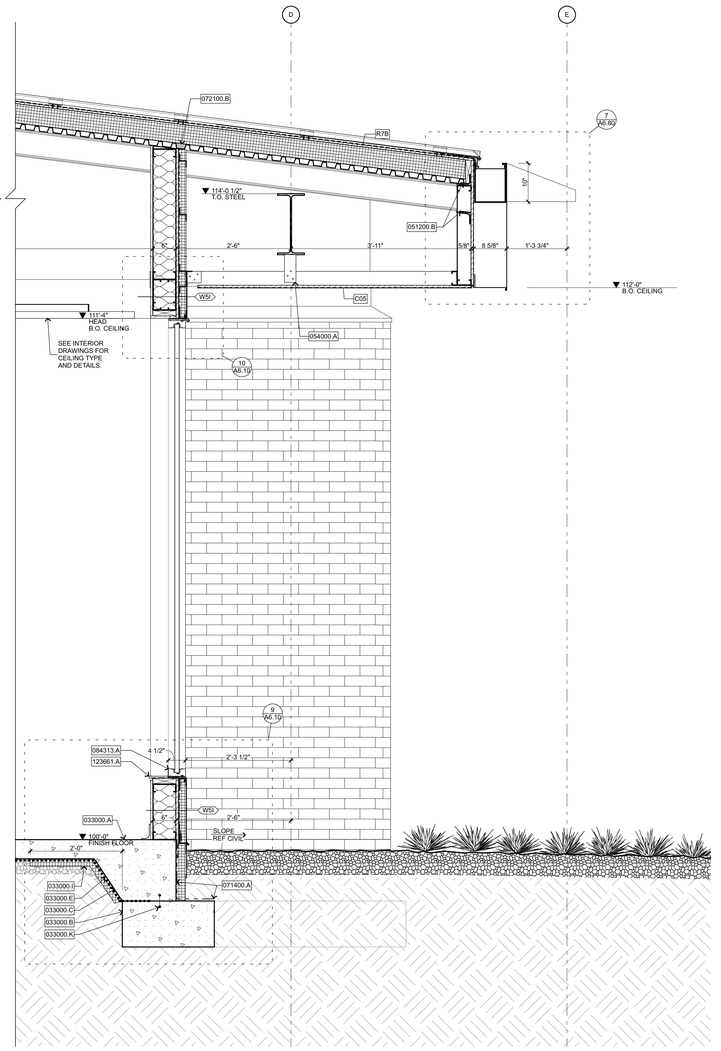
SCALE: 3/4" = 1'-0"

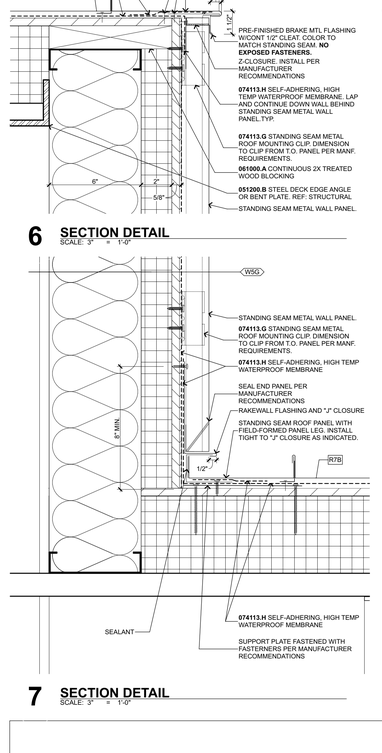


10 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"

9 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"



2 WALL SECTION
SCALE: 3/4" = 1'-0"



6 SECTION DETAIL
SCALE: 3" = 1'-0"

7 SECTION DETAIL
SCALE: 3" = 1'-0"

ROOF TYPES:

R7A: T.P.O. SINGLE PLY MEMBRANE OVER 1/2" COVERBOARD OVER MINIMUM (2) LAYERS OF POLYISO STAGGERED. BOARD INSULATION TO EQUAL MINIMUM R-30 (OR IF TAPERED R-30 MIN VALUE) OVER METAL DECK PER STRUCTURAL.

R7B: STANDING SEAM METAL ROOF PANEL OVER CONTINUOUS SELF-ADHERING, HIGH TEMP WATERPROOFING SHEET MEMBRANE OVER 5/8" SHEATHING OVER MINIMUM (2) LAYERS OF POLYISO STAGGERED (R-30 MIN VALUE) OVER METAL DECK PER STRUCTURAL.

CEILING TYPES:

C03: 5/8" GYPSUM BOARD OVER DRYWALL SUSPENSION SYSTEM

C04: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: RED TEXTURE TYPE 1

C05: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: WHITE. TEXTURE TYPE 1.

C06: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: WHITE. TEXTURE TYPE 2.

WALL TYPES:

DIVISION 03

W3A: 8" ARCHITECTURALLY FINISHED CAST-IN-PLACE CONCRETE WALL. (FACE EXPOSED TO VIEW ONLY)
WATER-PROOFING (REF. SECTION DETAILS FOR LOCATION)

NOTE: PROVIDE CONTINUOUS DAMP-PROOFING BELOW GRADE ON FINISHED FACE SIDE. REF. SECTION DETAILS.

DIVISION 04

W4A: BRICK VENEER
AIR SPACE
12" CMU

W4B: BRICK VENEER
AIR SPACE
12" CMU
AIR SPACE
BRICK VENEER

DIVISION 05

W5A: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5B: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5C: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5D: METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5E: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
METAL PANEL (TYPE 3)

W5F: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
5/8" TREATED PLYWOOD SHEATHING
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5G: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
2.6" COMPOSITE INSULATION PANEL
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5H: DIRECT APPLIED FINISH SYSTEM - TEXTURE TYPE 2.
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD

W5I: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5J: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

03 CONCRETE	
033000.A	CAST IN PLACE CONCRETE SLAB - RE: STRUCT.
033000.B	CAST IN PLACE FOOTING/FOUNDATION - RE: STRUCT.
033000.C	CAST IN PLACE THICKENED-EDGE SLAB - RE: STRUCT.
033000.E	UNDERSLAB VAPOR BARRIER
033000.H	EXTRUDED POLYSTYRENE FOAM-PLASTIC BOARD INSULATION AT BELOW GRADE PERIMETER CONCRETE WALLS / SLAB EDGES
033000.I	CONTINUOUS 2" EXTRUDED POLYSTYRENE FOAM-PLASTIC BOARD INSULATION BELOW CONCRETE SLAB - EXTEND HORIZONTALLY MINIMUM 2'-0" BEYOND EDGE OF FLOOR SLAB.
033000.K	WATERSTOP
04 MASONRY	
042000.C	CONTINUOUS THRU-WALL FLEXIBLE FLASHING WITH CONTINUOUS MORTAR DRAINAGE MATERIAL AND WEEPS @ 24" O.C. TYP.
042000.D	MASONRY VENTS @ 24" O.C. TYPICAL
042000.F	GROUT AND FILL CAVITY SOLID @ LAST COURSE BELOW WEEPS/ THRU-WALL FLASHING
05 METALS	
051200.A	STRUCTURAL STEEL MEMBER - RE: STRUCT.
051200.B	STEEL DECK EDGE ANGLE ON BENT PLATE. REF: STRUCTURAL
051200.C	STEEL ANGLE OR BENT PLATE. REF: STRUCTURAL
054000.A	MTL. STUD FRAMING CLIP. REF: STRUCTURAL
054000.C	MTL STUD FRAMING @ 16" O.C. GAUGE PER STRUCTURAL
06 WOODS, PLASTICS, & COMPOSITES	
061000.A	CONTINUOUS 2X TREATED WOOD BLOCKING
061000.B	5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER SYSTEM. AIR & WEATHER BARRIER SHALL BE CONTINUOUS.
061000.C	5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER SYSTEM. AIR & WEATHER BARRIER SHALL BE CONTINUOUS. LAP FOR POSITIVE DRAINAGE
07 THERMAL AND MOISTURE PROTECTION	
071400.A	WATERPROOF WALL/SLAB EDGE BELOW GRADE. BACKFILL WITH FREE DRAINING FILL.
072100.B	DECK FLUTE INSULATION. THICKNESS AND PROFILE TO MATCH METAL DECK.
072100.E	THERMALLY BROKEN "J" HEAD/SILL/JAMB FURRING
072400.A	1/2" MUD-IN VENTED REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
072400.C	1/2" MUD-IN "F" REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS.
072400.E	3" MUD-IN VENTED"F" REVEAL - COLOR: WHITE. REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
072400.F	1/2" MUD-IN VENTED "F" REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
074113.G	STANDING SEAM METAL ROOF MOUNTING CLIP.
074113.H	SELF-ADHERING, HIGH TEMP WATERPROOF MEMBRANE.
075400.B	PARAPET BASE AND COUNTER FLASHING. WRAP ROOF MEMBRANE UP WALL AND UNDER PARAPET CAP AND TURN DOWN AT FACE OF WALL BEHIND CAP/WALL PANEL U.N.O. ANCHOR TO TOP OR SIDE OF PARAPET WALL PER MANUFACTURER'S RECOMMENDATIONS. INSTALL PER 2007 NRCA DETAIL SP-1S OR SP-7S DEPENDING ON FLASHING HEIGHT. NO EXPOSED FASTENERS.
08 OPENINGS	
084313.A	EXTERIOR THERMALLY BROKEN ALUMINUM FRAMED STOREFRONT
084413.C	ALUMINUM SILL PAN FLASHING WITH END DAMS BY GLAZING SYSTEM MANUFACTURER. COLOR TO MATCH GLAZING SYSTEM.
084413.D	ALUMINUM FOUNDATION INSULATION PROTECTION FLASHING. COLOR TO MATCH GLAZING SYSTEM. NO EXPOSED FASTENERS.
09 FINISHES	
092953.A	ACOUSTIC PARTITION CLOSURE. COLOR TO MATCH ALUMINUM GLAZING SYSTEM.
12 FURNISHINGS	
122513.A	MOTORIZED WINDOW ROLLER SHADE
122513.B	CONTINUOUS 2-PIECE CLOSURE ANGLE BY WINDOW SHADE MANUFACTURER. SIZE AS INDICATED IN DRAWINGS. COLOR BY ARCHITECT
123661.A	SOLID SURFACE SILL
32 EXTERIOR IMPROVEMENTS	
320000.A	LANDSCAPE GRAVEL. REF: CIVIL AND LANDSCAPE

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REVISIONS:

100 % CONSTRUCTION DOCUMENTS
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WALL SECTIONS & DETAILS
A6.10

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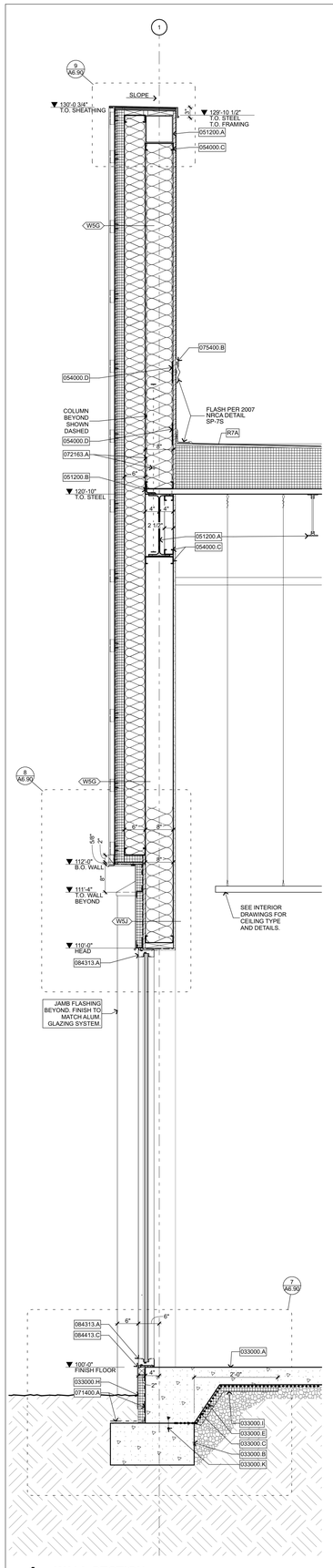
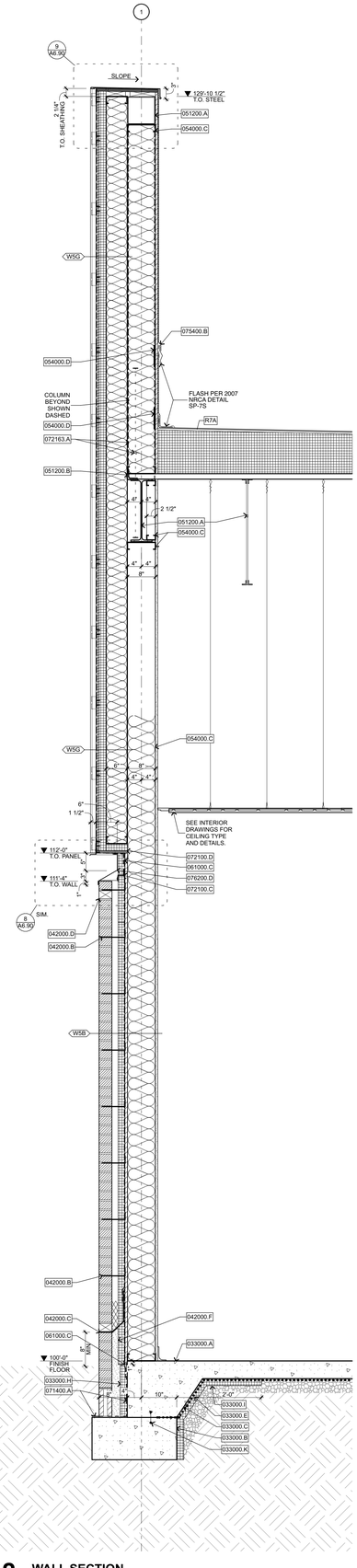


1 WALL SECTION
SCALE: 3/4" = 1'-0"



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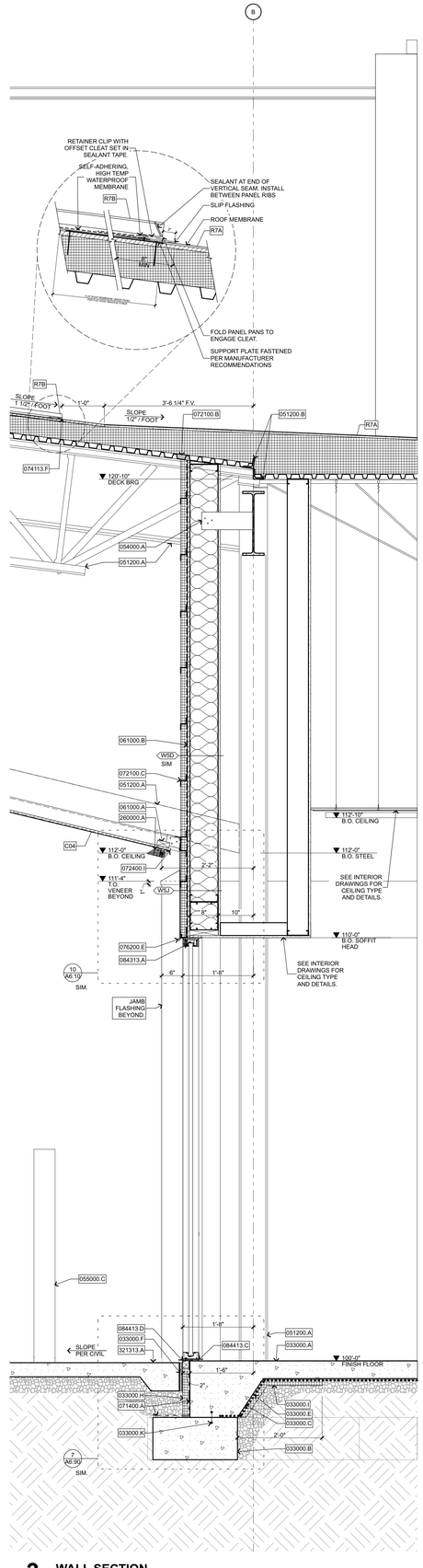
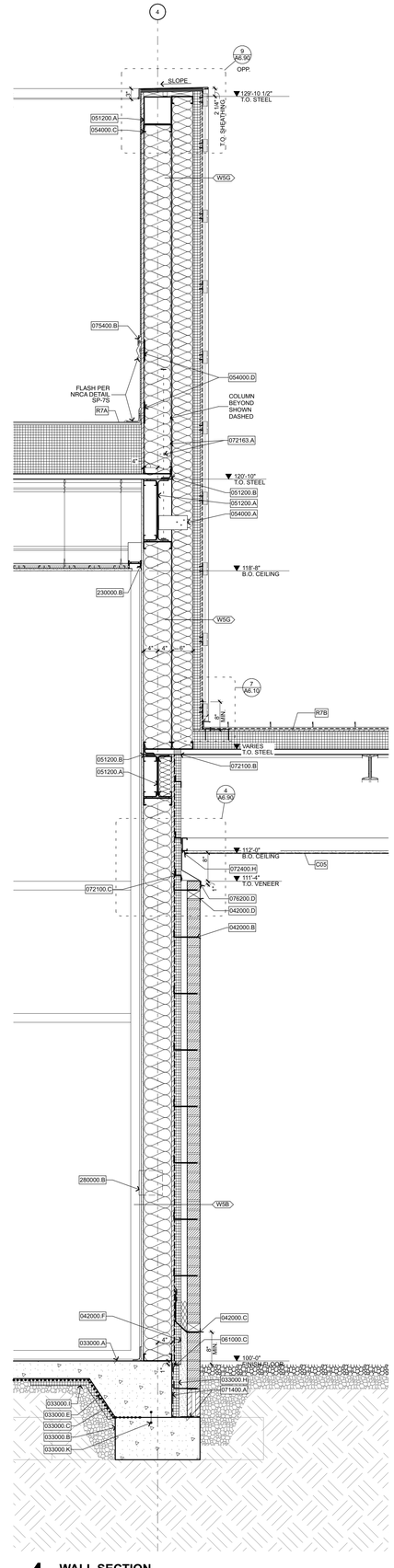
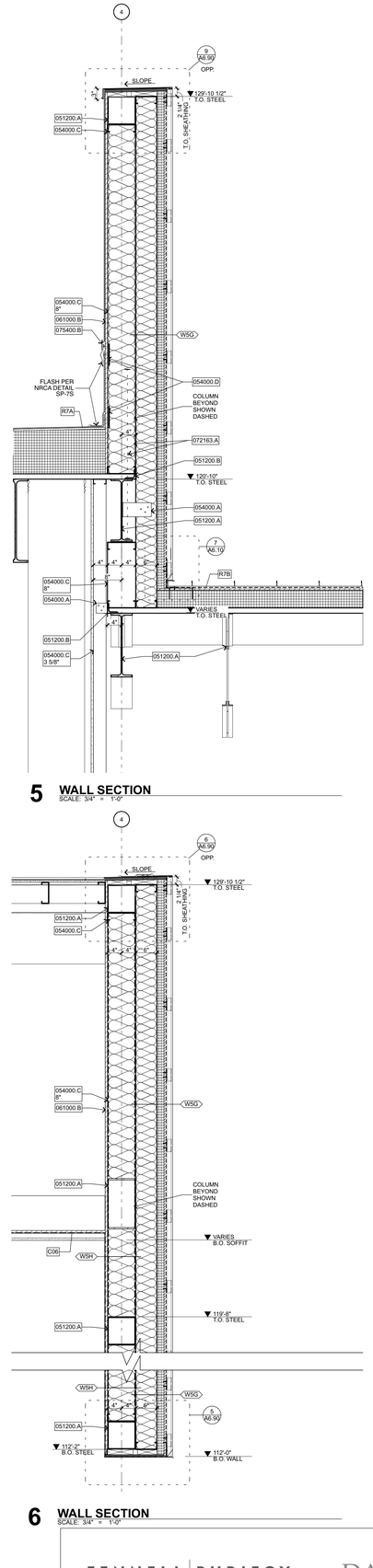
SCALE: 3/4" = 1'-0"



3 WALL SECTION
SCALE: 3/4" = 1'-0"



4 WALL SECTION
SCALE: 3/4" = 1'-0"



5 WALL SECTION
SCALE: 3/4" = 1'-0"

6 WALL SECTION
SCALE: 3/4" = 1'-0"

ROOF TYPES:

R7A: T.P.O. SINGLE PLY MEMBRANE OVER 1/2" COVERBOARD OVER MINIMUM (2) LAYERS OF POLYISO STAGGERED. BOARD INSULATION TO EQUAL MINIMUM R-30 (OR IF TAPERED R-30 MIN VALUE) OVER METAL DECK PER STRUCTURAL.

R7B: STANDING SEAM METAL ROOF PANEL OVER CONTINUOUS SELF-ADHERING, HIGH TEMP WATERPROOFING SHEET MEMBRANE OVER 5/8" SHEATHING OVER MINIMUM (2) LAYERS OF POLYISO STAGGERED (R-30 MIN VALUE) OVER METAL DECK PER STRUCTURAL.

CEILING TYPES:

C03: 5/8" GYPSUM BOARD OVER DRYWALL SUSPENSION SYSTEM

C04: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: RED TEXTURE TYPE 1

C05: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: WHITE. TEXTURE TYPE 1.

C06: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: WHITE. TEXTURE TYPE 2.

WALL TYPES:

DIVISION 03

W3A: 8" ARCHITECTURALLY FINISHED CAST-IN-PLACE CONCRETE WALL. (FACE EXPOSED TO VIEW ONLY)
WATER-PROOFING (REF. SECTION DETAILS FOR LOCATION)

NOTE: PROVIDE CONTINUOUS DAMP-PROOFING BELOW GRADE ON FINISHED FACE SIDE. REF. SECTION DETAILS.

DIVISION 04

W4A: BRICK VENEER
AIR SPACE
12" CMU

W4B: BRICK VENEER
AIR SPACE
12" CMU
AIR SPACE
BRICK VENEER

DIVISION 05

W5A: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5B: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5C: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5D: METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5E: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
METAL PANEL (TYPE 3)

W5F: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
5/8" TREATED PLYWOOD SHEATHING
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5G: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
2.6" COMPOSITE INSULATION PANEL
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5H: DIRECT APPLIED FINISH SYSTEM - TEXTURE TYPE 2.
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD

W5I: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5J: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

03 CONCRETE	
033000.A	CAST IN PLACE CONCRETE SLAB - RE: STRUCT.
033000.B	CAST IN PLACE FOOTING/FOUNDATION - RE: STRUCT.
033000.C	CAST IN PLACE THICKENED-EDGE SLAB - RE: STRUCT.
033000.E	UNDERSLAB VAPOR BARRIER
033000.F	1/2" EXPANSION JOINT AND FILLER MATERIAL W/ REMOVABLE EXPANSION JOINT CAP
033000.H	EXTRUDED POLYSTYRENE FOAM-PLASTIC BOARD INSULATION AT BELOW GRADE PERIMETER CONCRETE WALLS / SLAB EDGES
033000.I	CONTINUOUS 2" EXTRUDED POLYSTYRENE FOAM-PLASTIC BOARD INSULATION BELOW CONCRETE SLAB - EXTEND HORIZONTALLY MINIMUM 2'-0" BEYOND EDGE OF FLOOR SLAB.
033000.K	WATERSTOP
04 MASONRY	
042000.B	MASONRY TIE/ANCHOR, TYP.
042000.C	CONTINUOUS THRU-WALL FLEXIBLE FLASHING WITH CONTINUOUS MORTAR DRAINAGE MATERIAL AND WEEPS @ 24" O.C. TYP.
042000.D	MASONRY VENTS @ 24" O.C., TYPICAL
042000.F	GROUT AND FILL CAVITY SOLID @ LAST COURSE BELOW WEEPS/ THRU-WALL FLASHING
05 METALS	
051200.A	STRUCTURAL STEEL MEMBER - RE: STRUCT.
051200.B	STEEL DECK EDGE ANGLE OR BENT PLATE. REF: STRUCTURAL
054000.A	MTL. STUD FRAMING CLIP. REF: STRUCTURAL
054000.C	MTL STUD FRAMING @ 16" O.C. GAUGE PER STRUCTURAL
054000.D	6" WIDE 18 GA SHEET METAL BACKER FASTENING STRIP
055000.C	SITE BOLLARD. REFER TO CIVIL. PAINT
06 WOODS, PLASTICS, & COMPOSITES	
061000.A	CONTINUOUS 2X TREATED WOOD BLOCKING
061000.B	5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER SYSTEM. AIR & WEATHER BARRIER SHALL BE CONTINUOUS.
061000.C	5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER SYSTEM. AIR & WEATHER BARRIER SHALL BE CONTINUOUS. LAP FOR POSITIVE DRAINAGE
07 THERMAL AND MOISTURE PROTECTION	
071400.A	WATERPROOF WALL/SLAB EDGE BELOW GRADE. BACKFILL WITH FREE DRAINING FILL
072100.B	DECK FLUTE INSULATION. THICKNESS AND PROFILE TO MATCH METAL DECK.
072100.C	THERMALLY BROKEN Z-FURRING
072100.D	2.6" COMPOSITE INSULATION PANEL
072163.A	FLUID APPLIED INSULATION COATING. COAT ALL FACES OF STEEL AT LEAST 2'-0" FROM BUILDING INSULATION LINE
072400.H	1/2" MUD-IN "F" REVEAL - COLOR: WHITE. REVEAL SHALL BE CONTINUOUS
072400.I	3" MUD-IN VENTED "Z" REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
074113.F	STEEP-TO LOW-SLOPE ROOF SYSTEM TRANSITION PER NRCA DETAIL AM-18
075400.B	PARAPET BASE AND COUNTER FLASHING. WRAP ROOF MEMBRANE UP WALL AND UNDER PARAPET CAP AND TURN DOWN AT FACE OF WALL BEHIND CAP/WALL PANEL U.N.O. ANCHOR TO TOP OR SIDE OF PARAPET WALL PER MANUFACTURER'S RECOMMENDATIONS. INSTALL PER 2007 NRCA DETAIL SP-15 OR SP-7S DEPENDING ON FLASHING HEIGHT. NO EXPOSED FASTENERS
076200.D	ALUMINUM FLASHING OVER CONT. CLEAT. NO EXPOSED FASTENERS. COLOR TO MATCH ALUMINUM GLAZING SYSTEM. PROVIDE 2 LAYERS BUTYL SEALANT @ LAP JOINTS. LAP 4" MIN.
076200.E	ALUM. PANEL WITH CONTINUOUS CLEAT AND 1/2" DRIP EDGE. COLOR TO MATCH ALUM. GLAZING SYSTEM. NO EXPOSED FASTENERS. LAP SEAMS 4" MIN. SEE ELEVATIONS FOR JOINTS.
08 OPENINGS	
084313.A	EXTERIOR THERMALLY BROKEN ALUMINUM FRAMED STOREFRONT
084413.C	ALUMINUM SILL PAN FLASHING WITH END DAMS BY GLAZING SYSTEM MANUFACTURER. COLOR TO MATCH GLAZING SYSTEM.
084413.D	ALUMINUM FOUNDATION INSULATION PROTECTION FLASHING. COLOR TO MATCH GLAZING SYSTEM. NO EXPOSED FASTENERS.
23 HVAC	
230000.B	LINEAR SLOT DIFFUSER. REFER TO MEP
26 ELECTRICAL	
260000.A	LIGHT FIXTURE. REF MEP
28 ELECTRONIC SAFETY & SECURITY	
280000.B	FIRE ALARM RECESSED ANNUNCIATOR PANEL
32 EXTERIOR IMPROVEMENTS	
321313.A	CAST IN PLACE CONCRETE PAVING - RE: CIVIL/ LANDSCAPE.

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REVISIONS:

100 % CONSTRUCTION DOCUMENTS
05-18-2026

WALL SECTIONS & DETAILS
A6.20

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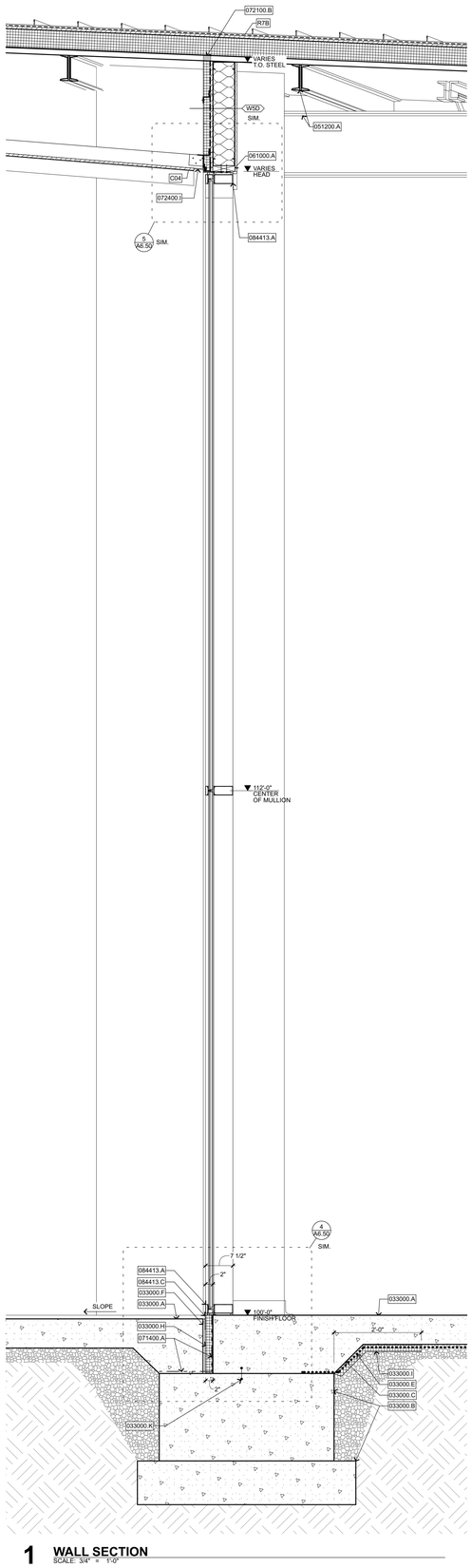
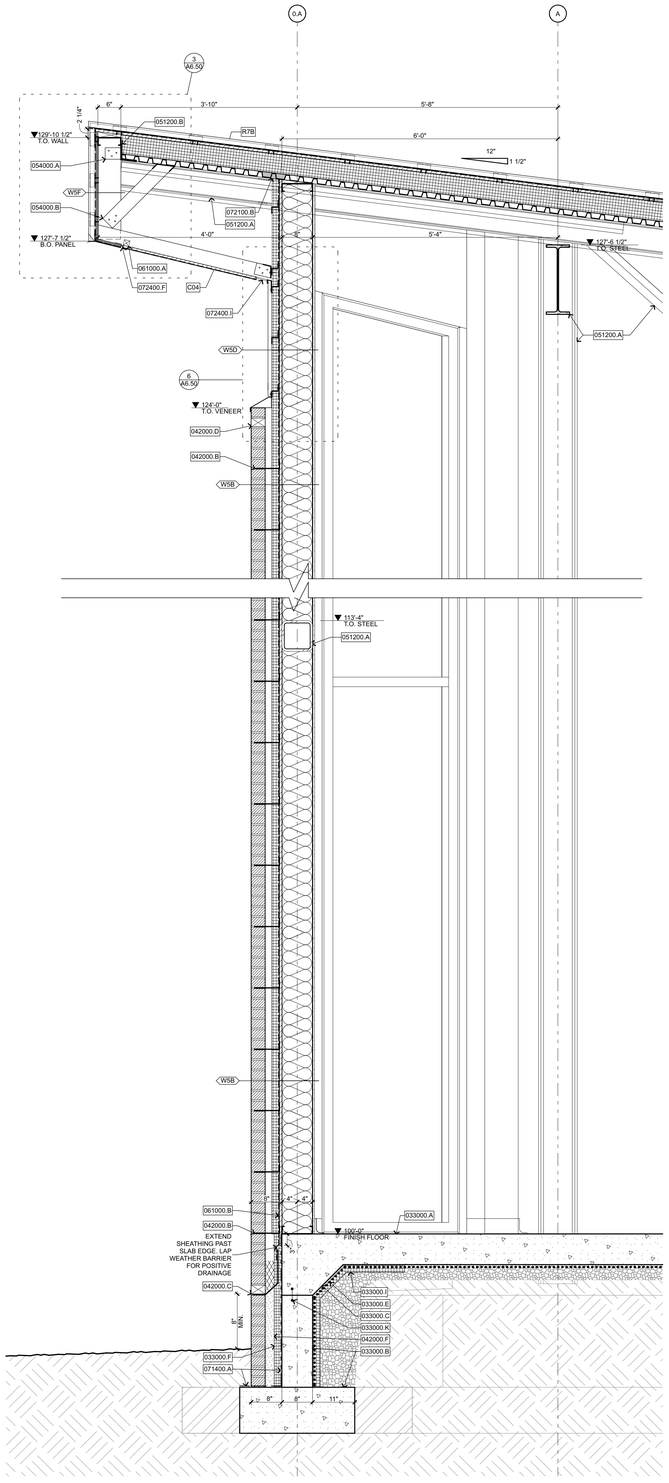
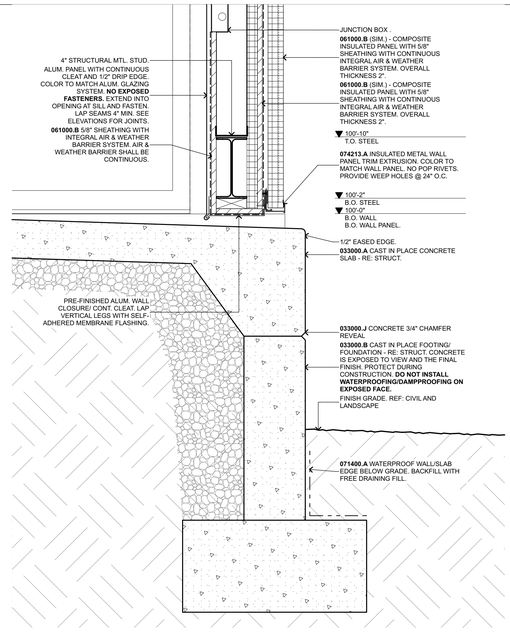


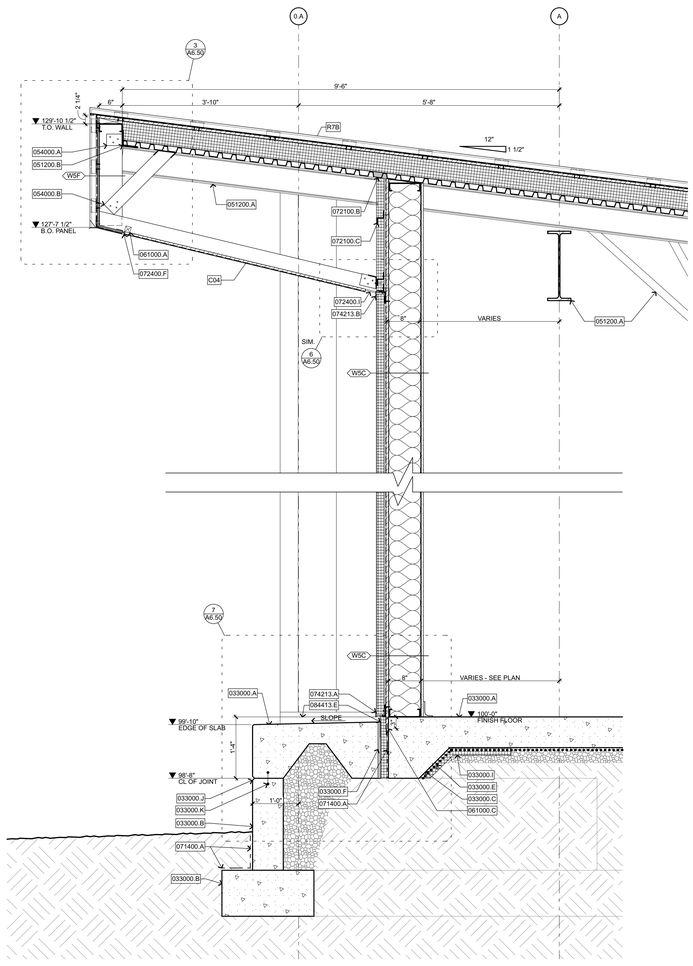
1 WALL SECTION
SCALE: 3/4" = 1'-0"



2 WALL SECTION
SCALE: 3/4" = 1'-0"



11 Wall Section
SCALE: 1 1/2" = 1'-0"



3 WALL SECTION
SCALE: 3/4" = 1'-0"

ROOF TYPES:

R7A: T.P.O. SINGLE PLY MEMBRANE OVER 1/2" COVERBOARD OVER MINIMUM (2) LAYERS OF POLYISO STAGGERED. BOARD INSULATION TO EQUAL MINIMUM R-30 (OR IF TAPERED R-30 MIN VALUE) OVER METAL DECK PER STRUCTURAL.

R7B: STANDING SEAM METAL ROOF PANEL OVER CONTINUOUS SELF-ADHERING, HIGH TEMP WATERPROOFING SHEET MEMBRANE OVER 5/8" SHEATHING OVER MINIMUM (2) LAYERS OF POLYISO STAGGERED (R-30 MIN VALUE) OVER METAL DECK PER STRUCTURAL.

CEILING TYPES:

C03: 5/8" GYPSUM BOARD OVER DRYWALL SUSPENSION SYSTEM

C04: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: RED TEXTURE TYPE 1

C05: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: WHITE. TEXTURE TYPE 1.

C06: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: WHITE. TEXTURE TYPE 2.

WALL TYPES:

DIVISION 03

W3A: 8" ARCHITECTURALLY FINISHED CAST-IN-PLACE CONCRETE WALL. (FACE EXPOSED TO VIEW ONLY)
WATER-PROOFING (REF. SECTION DETAILS FOR LOCATION)

NOTE: PROVIDE CONTINUOUS DAMP-PROOFING BELOW GRADE ON FINISHED FACE SIDE. REF. SECTION DETAILS.

DIVISION 04

W4A: BRICK VENEER
AIR SPACE
12" CMU

W4B: BRICK VENEER
AIR SPACE
12" CMU
AIR SPACE
BRICK VENEER

DIVISION 05

W5A: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5B: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5C: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5D: METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5E: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
METAL PANEL (TYPE 3)

W5F: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
5/8" TREATED PLYWOOD SHEATHING
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5G: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
2.6" COMPOSITE INSULATION PANEL
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5H: DIRECT APPLIED FINISH SYSTEM - TEXTURE TYPE 2.
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD

W5I: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5J: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

03 CONCRETE	
033000.A	CAST IN PLACE CONCRETE SLAB - RE: STRUCT.
033000.B	CAST IN PLACE FOOTING/FOUNDATION - RE: STRUCT.
033000.C	CAST IN PLACE THICKENED-EDGE SLAB - RE: STRUCT.
033000.E	UNDERSLAB VAPOR BARRIER
033000.F	1/2" EXPANSION JOINT AND FILLER MATERIAL W/ REMOVABLE EXPANSION JOINT CAP
033000.H	EXTRUDED POLYSTYRENE FOAM-PLASTIC BOARD INSULATION AT BELOW GRADE PERIMETER CONCRETE WALLS / SLAB EDGES
033000.I	CONTINUOUS 2" EXTRUDED POLYSTYRENE FOAM-PLASTIC BOARD INSULATION BELOW CONCRETE SLAB - EXTEND HORIZONTALLY MINIMUM 2'-0" BEYOND EDGE OF FLOOR SLAB.
033000.J	CONCRETE 3/4" CHAMFER REVEAL
033000.K	WATERSTOP
04 MASONRY	
042000.B	MASONRY TIE/ANCHOR, TYP.
042000.C	CONTINUOUS THRU-WALL FLEXIBLE FLASHING WITH CONTINUOUS MORTAR DRAINAGE MATERIAL AND WEEPS @ 24" O.C. TYP.
042000.D	MASONRY VENTS @ 24" O.C., TYPICAL
042000.F	GROUT AND FILL CAVITY SOLID @ LAST COURSE BELOW WEEPS/ THRU-WALL FLASHING
05 METALS	
051200.A	STRUCTURAL STEEL MEMBER - RE: STRUCT.
051200.B	STEEL DECK EDGE ANGLE OR BENT PLATE. REF: STRUCTURAL
054000.A	MTL. STUD FRAMING CLIP. REF: STRUCTURAL
054000.B	MTL. STUD KICKER @ 16" O.C.
06 WOODS, PLASTICS, & COMPOSITES	
061000.A	CONTINUOUS 2X TREATED WOOD BLOCKING
061000.B	5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER SYSTEM. AIR & WEATHER BARRIER SHALL BE CONTINUOUS.
061000.C	5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER SYSTEM. AIR & WEATHER BARRIER SHALL BE CONTINUOUS. LAP FOR POSITIVE DRAINAGE
07 THERMAL AND MOISTURE PROTECTION	
071400.A	WATERPROOF WALL/SLAB EDGE BELOW GRADE. BACKFILL WITH FREE DRAINING FILL.
072100.B	DECK FLUTE INSULATION. THICKNESS AND PROFILE TO MATCH METAL DECK.
072100.C	THERMALLY BROKEN Z-FURRING
072400.F	1/2" MUD-IN VENTED "F" REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
072400.I	3" MUD-IN VENTED "2" REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
074213.A	INSULATED METAL WALL PANEL TRIM EXTRUSION. COLOR TO MATCH WALL PANEL. NO POP RIVETS. PROVIDE WEEP HOLES @ 24" O.C.
074213.B	INSULATED METAL WALL PANEL TRIM EXTRUSION. COLOR TO MATCH WALL PANEL. NO POP RIVETS.
08 OPENINGS	
084413.A	1" INSULATED GLASS SET IN ALUMINUM GLAZING FRAMING SYSTEM. CAULK PERIMETER. TYP.
084413.C	ALUMINUM SILL PAN FLASHING WITH END DAMS BY GLAZING SYSTEM MANUFACTURER. COLOR TO MATCH GLAZING SYSTEM.
084413.E	ALUMINUM FOUNDATION INSULATION PROTECTION FLASHING. COLOR TO MATCH ADJACENT METAL WALL PANEL. NO EXPOSED FASTENERS.

ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER
JONESBORO, ARKANSAS

REVISIONS:

100 % CONSTRUCTION DOCUMENTS
05-18-2026

WALL SECTIONS & DETAILS
A6.30

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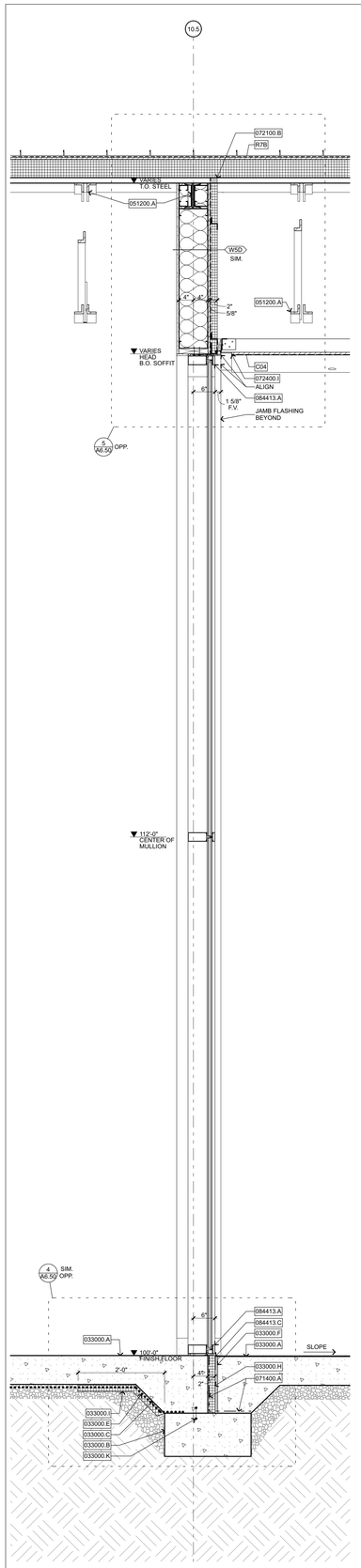

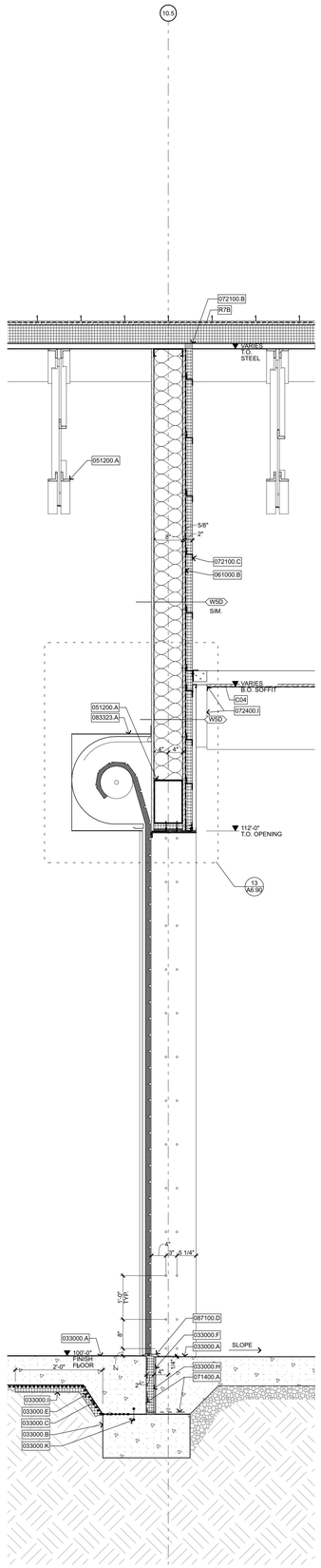

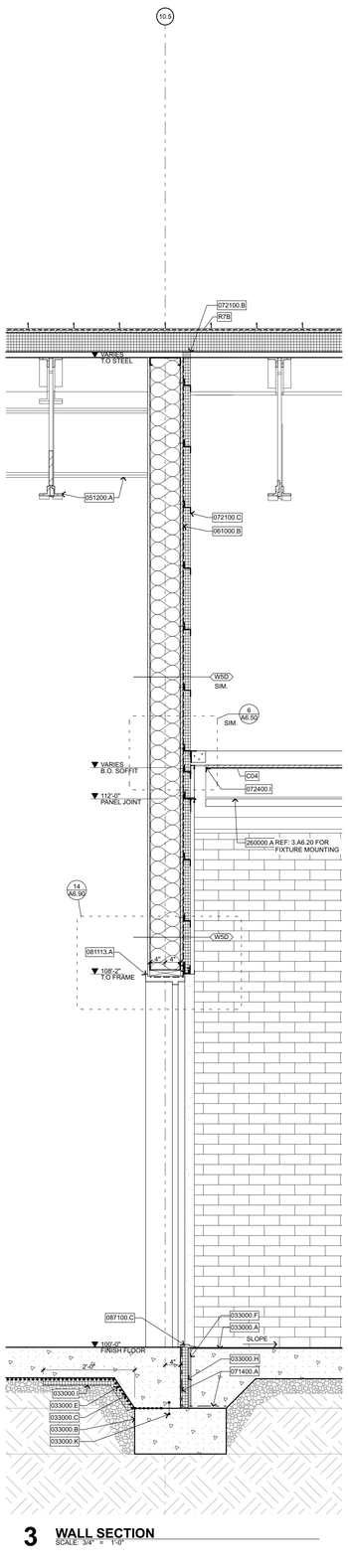

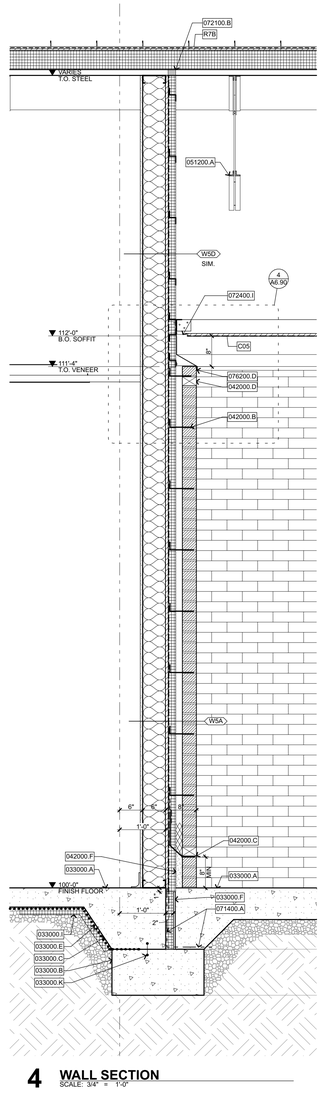

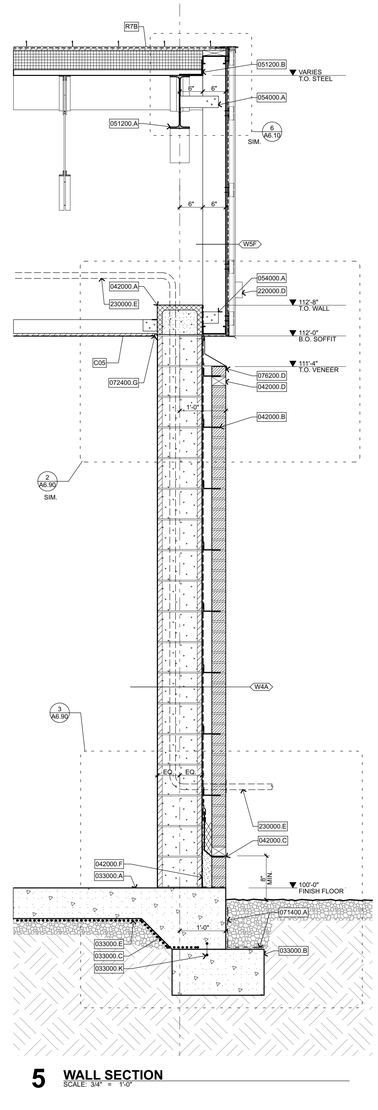

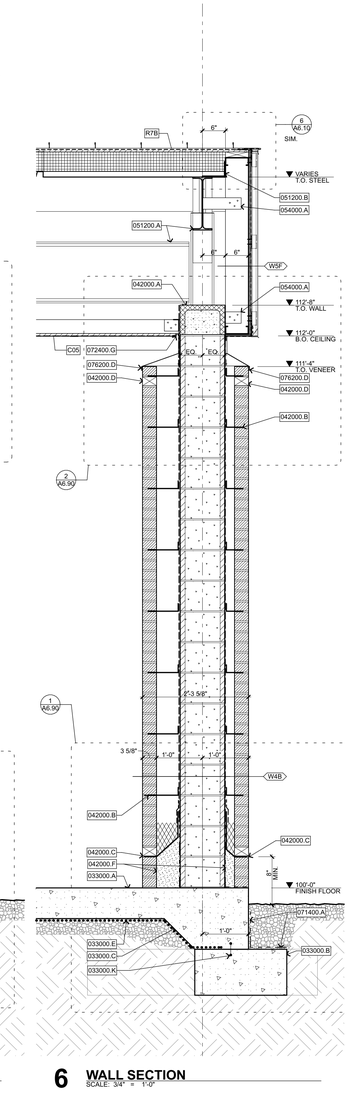

ROOF TYPES:

R7A: T.P.O. SINGLE PLY MEMBRANE OVER 1/2" COVERBOARD OVER MINIMUM (2) LAYERS OF POLYISO STAGGERED. BOARD INSULATION TO EQUAL MINIMUM R-30 (OR IF TAPERED R-30 MIN VALUE) OVER METAL DECK PER STRUCTURAL.

R7B: STANDING SEAM METAL ROOF PANEL OVER CONTINUOUS SELF-ADHERING, HIGH TEMP WATERPROOFING SHEET MEMBRANE OVER 5/8" SHEATHING OVER MINIMUM (2) LAYERS OF POLYISO STAGGERED (R-30 MIN VALUE) OVER METAL DECK PER STRUCTURAL.

CEILING TYPES:

C03: 5/8" GYPSUM BOARD OVER DRYWALL SUSPENSION SYSTEM

C04: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: RED TEXTURE TYPE 1

C05: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: WHITE. TEXTURE TYPE 1.

C06: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: WHITE. TEXTURE TYPE 2.

WALL TYPES:

DIVISION 03

W3A: 8" ARCHITECTURALLY FINISHED CAST-IN-PLACE CONCRETE WALL. (FACE EXPOSED TO VIEW ONLY)
WATER-PROOFING (REF. SECTION DETAILS FOR LOCATION)

NOTE: PROVIDE CONTINUOUS DAMP-PROOFING BELOW GRADE ON FINISHED FACE SIDE. REF. SECTION DETAILS.

DIVISION 04

W4A: BRICK VENEER
AIR SPACE
12" CMU

W4B: BRICK VENEER
AIR SPACE
12" CMU
AIR SPACE
BRICK VENEER

DIVISION 05

W5A: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5B: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5C: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5D: METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5E: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
METAL PANEL (TYPE 3)

W5F: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
5/8" TREATED PLYWOOD SHEATHING
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5G: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
2.6" COMPOSITE INSULATION PANEL
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5H: DIRECT APPLIED FINISH SYSTEM - TEXTURE TYPE 2.
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD

W5I: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5J: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

03 CONCRETE	
033000.A	CAST IN PLACE CONCRETE SLAB - RE: STRUCT.
033000.B	CAST IN PLACE FOOTING/FOUNDATION - RE: STRUCT.
033000.C	CAST IN PLACE THICKENED-EDGE SLAB - RE: STRUCT.
033000.E	UNDERSLAB VAPOR BARRIER
033000.F	1/2" EXPANSION JOINT AND FILLER MATERIAL W/ REMOVABLE EXPANSION JOINT CAP.
033000.H	EXTRUDED POLYSTYRENE FOAM-PLASTIC BOARD INSULATION AT BELOW GRADE PERIMETER CONCRETE WALLS / SLAB EDGES.
033000.I	CONTINUOUS 2" EXTRUDED POLYSTYRENE FOAM-PLASTIC BOARD INSULATION BELOW CONCRETE SLAB - EXTEND HORIZONTALLY MINIMUM 2'-0" BEYOND EDGE OF FLOOR SLAB.
033000.K	WATERSTOP
04 MASONRY	
042000.A	BOND BEAM - RE: STRUCT.
042000.B	MASONRY TIE/ANCHOR, TYP.
042000.C	CONTINUOUS THRU-WALL FLEXIBLE FLASHING WITH CONTINUOUS MORTAR DRAINAGE MATERIAL AND WEEPS @ 24" O.C. TYP.
042000.D	MASONRY VENTS @ 24" O.C., TYPICAL
042000.F	GROUT AND FILL CAVITY SOLID @ LAST COURSE BELOW WEEPS/ THRU-WALL FLASHING
05 METALS	
051200.A	STRUCTURAL STEEL MEMBER - RE: STRUCT.
051200.B	STEEL DECK EDGE ANGLE OR BENT PLATE. REF: STRUCTURAL
054000.A	MTL. STUD FRAMING CLIP. REF: STRUCTURAL
06 WOODS, PLASTICS, & COMPOSITES	
061000.B	5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER SYSTEM. AIR & WEATHER BARRIER SHALL BE CONTINUOUS.
07 THERMAL AND MOISTURE PROTECTION	
071400.A	WATERPROOF WALL/SLAB EDGE BELOW GRADE. BACKFILL WITH FREE DRAINING FILL.
072100.B	DECK FLUTE INSULATION. THICKNESS AND PROFILE TO MATCH METAL DECK.
072100.C	THERMALLY BROKEN Z-FURRING
072400.G	1/2" MUD-IN VENTED"F" REVEAL - COLOR: WHITE. REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
072400.I	3" MUD-IN VENTED. "Z" REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
076200.D	ALUMINUM FLASHING OVER CONT. CLEAT. NO EXPOSED FASTENERS. COLOR TO MATCH ALUMINUM GLAZING SYSTEM. PROVIDE 2 LAYERS BUTYL SEALANT @ LAP JOINTS. LAP 4" MIN.
08 OPENINGS	
081113.A	DOOR AND FRAME - REF: DOOR SCHEDULE FOR TYPES.
083323.A	OVERHEAD COILING DOOR
084413.A	1" INSULATED GLASS SET IN ALUMINUM GLAZING FRAMING SYSTEM. CAULK PERIMETER. TYP.
084413.C	ALUMINUM SILL PAN FLASHING WITH END DAMS BY GLAZING SYSTEM MANUFACTURER. COLOR TO MATCH GLAZING SYSTEM.
087100.C	ALUMINUM DOOR THRESHOLD - WIDTH AS NECESSARY TO COVER JOINT BETWEEN SLABS. SET IN FULL BED OF SEALANT.
087100.D	HEAVY DUTY THERMAL BARRIER ALUMINUM THRESHOLD WITH FROST GUARD - WIDTH AS NECESSARY TO COVER JOINT BETWEEN SLABS. SET IN FULL BED OF SEALANT.
22 PLUMBING	
220000.D	THROUGH-WALL VENT. REFER TO MEP. CENTER ON MTL WALL PANEL - TYPICAL. COLOR TO MATCH WALL PANEL.
23 HVAC	
230000.E	CONDENSING UNIT PIPING. ROUTE WITHIN WALL CAVITY TO ABOVE CEILING. REFER TO MEP FOR SIZE. PIPING SHALL NOT BE EXPOSED TO VIEW WITHIN OUTDOOR PROJECT AREA.
26 ELECTRICAL	
260000.A	LIGHT FIXTURE. REF MEP

1 WALL SECTION
SCALE: 3/4" = 1'-0"

2 WALL SECTION
SCALE: 3/4" = 1'-0"

3 WALL SECTION
SCALE: 3/4" = 1'-0"

4 WALL SECTION
SCALE: 3/4" = 1'-0"

5 WALL SECTION
SCALE: 3/4" = 1'-0"

6 WALL SECTION
SCALE: 3/4" = 1'-0"

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JONESBORO, ARKANSAS

REVISIONS:

100 % CONSTRUCTION DOCUMENTS
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WALL SECTIONS & DETAILS
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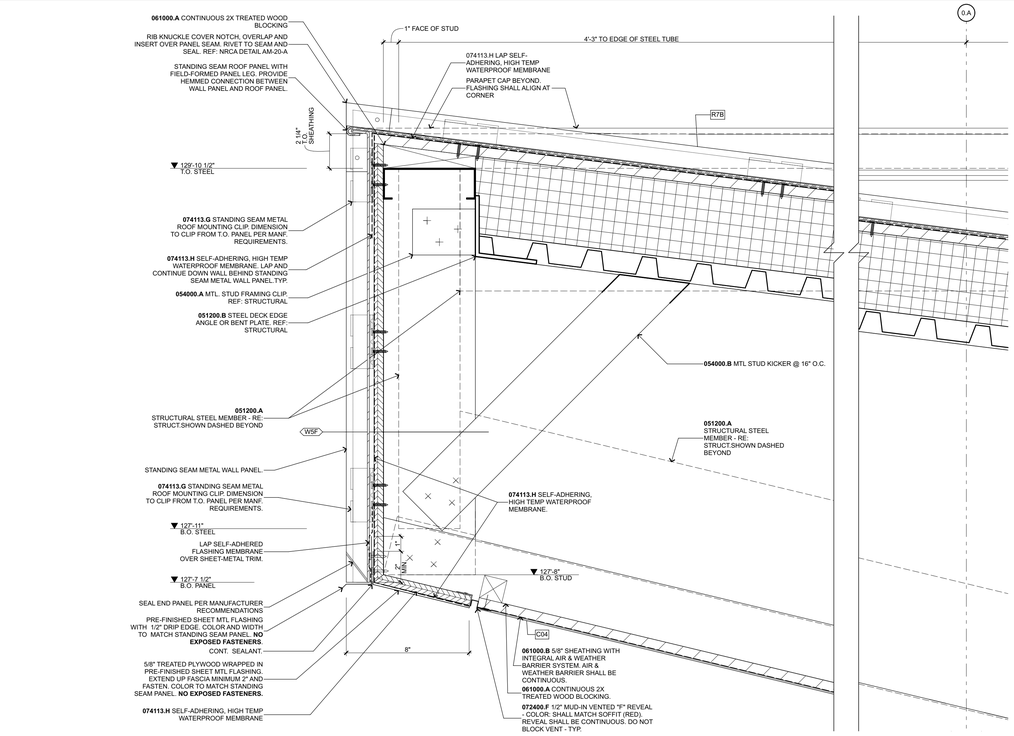
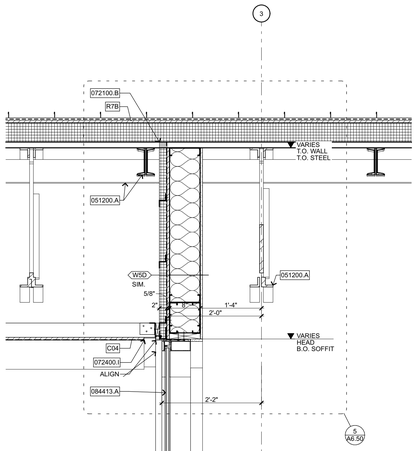
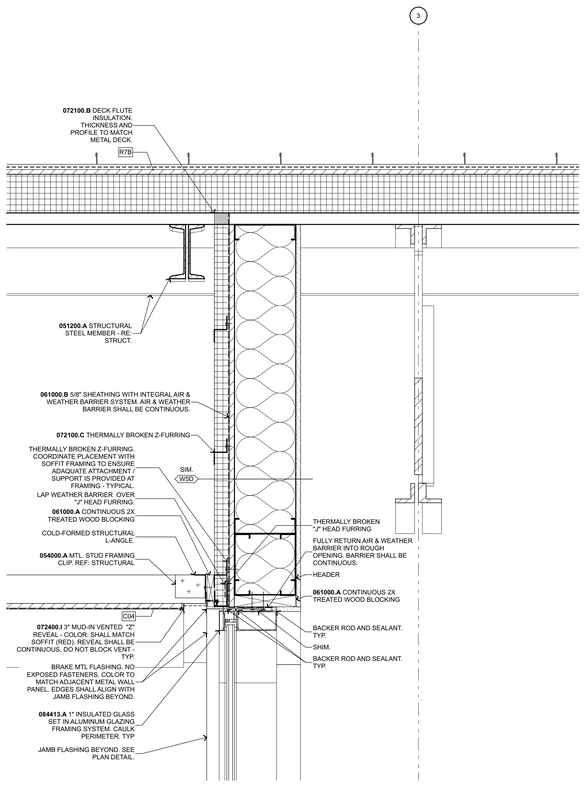


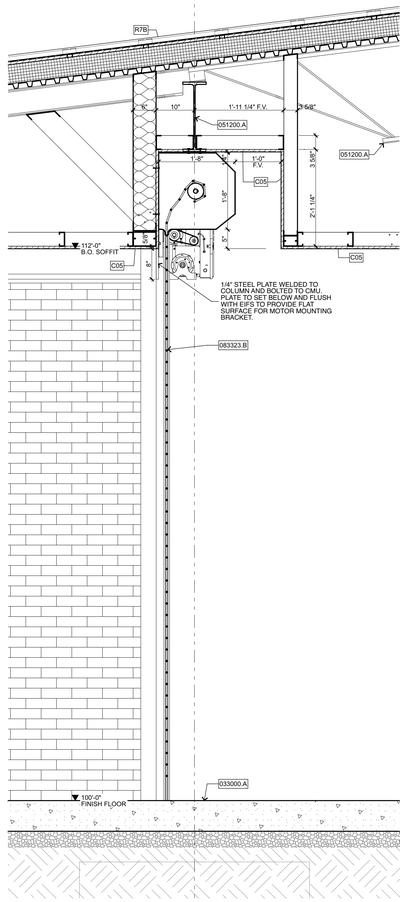
3 SECTION DETAIL
SCALE: 3" = 1'-0"



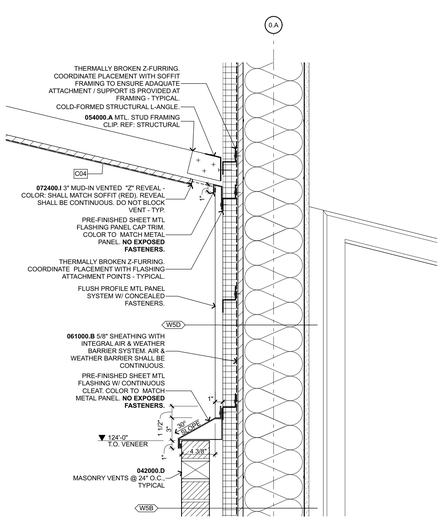
5 SECTION DETAIL
SCALE: 1 1/2"= 1'-0"



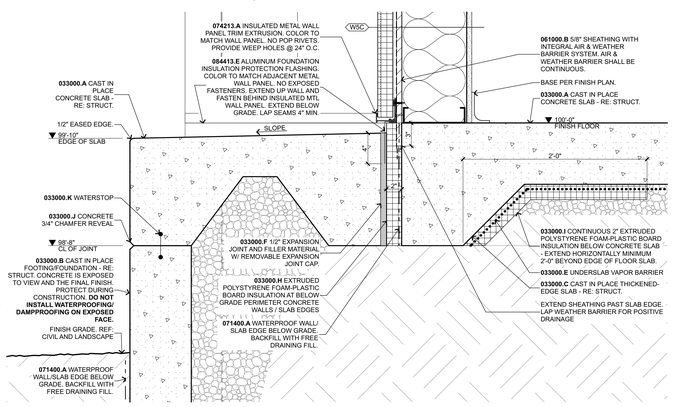
4 SECTION DETAIL
SCALE: 1 1/2"= 1'-0"



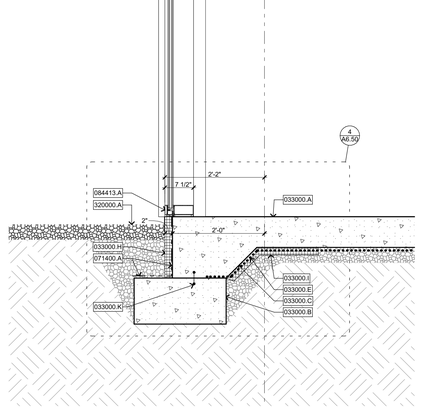
1 WALL SECTION
SCALE: 3/4" = 1'-0"



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



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



2 WALL SECTION
SCALE: 3/4" = 1'-0"

ROOF TYPES:

R7A: T.P.O. SINGLE PLY MEMBRANE OVER 1/2" COVERBOARD OVER MINIMUM (2) LAYERS OF POLYISO STAGGERED. BOARD INSULATION TO EQUAL MINIMUM R-30 (OR IF TAPERED R-30 MIN VALUE) OVER METAL DECK PER STRUCTURAL.

R7B: STANDING SEAM METAL ROOF PANEL OVER CONTINUOUS SELF-ADHERING, HIGH TEMP WATERPROOFING SHEET MEMBRANE OVER 5/8" SHEATHING OVER MINIMUM (2) LAYERS OF POLYISO STAGGERED (R-30 MIN VALUE) OVER METAL DECK PER STRUCTURAL.

CEILING TYPES:

C03: 5/8" GYPSUM BOARD OVER DRYWALL SUSPENSION SYSTEM

C04: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: RED TEXTURE TYPE 1

C05: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: WHITE. TEXTURE TYPE 1.

C06: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: WHITE. TEXTURE TYPE 2.

WALL TYPES:

DIVISION 03

W3A: 8" ARCHITECTURALLY FINISHED CAST-IN-PLACE CONCRETE WALL. (FACE EXPOSED TO VIEW ONLY)
WATER-PROOFING (REF. SECTION DETAILS FOR LOCATION)
NOTE: PROVIDE CONTINUOUS DAMP-PROOFING BELOW GRADE ON FINISHED FACE SIDE. REF. SECTION DETAILS.

DIVISION 04

W4A: BRICK VENEER
AIR SPACE
12" CMU

W4B: BRICK VENEER
AIR SPACE
12" CMU
AIR SPACE
BRICK VENEER

DIVISION 05

W5A: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5B: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5C: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5D: METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5E: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
METAL PANEL (TYPE 3)

W5F: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
5/8" TREATED PLYWOOD SHEATHING
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5G: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
2.6" COMPOSITE INSULATION PANEL
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5H: DIRECT APPLIED FINISH SYSTEM - TEXTURE TYPE 2.
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD

W5I: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5J: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

03 CONCRETE	
033000.A	CAST IN PLACE CONCRETE SLAB - RE: STRUCT.
033000.B	CAST IN PLACE FOOTING/FOUNDATION - RE: STRUCT.
033000.C	CAST IN PLACE THICKENED-EDGE SLAB - RE: STRUCT.
033000.E	UNDERSLAB VAPOR BARRIER
033000.F	1/2" EXPANSION JOINT AND FILLER MATERIAL W/ REMOVABLE EXPANSION JOINT CAP.
033000.H	EXTRUDED POLYSTYRENE FOAM PLASTIC BOARD INSULATION AT BELOW GRADE PERIMETER CONCRETE WALLS / SLAB EDGES
033000.I	CONTINUOUS 2" EXTRUDED POLYSTYRENE FOAM-PLASTIC BOARD INSULATION BELOW CONCRETE SLAB - EXTEND HORIZONTALLY MINIMUM 2'-0" BEYOND EDGE OF FLOOR SLAB.
033000.J	CONCRETE 3/4" CHAMFER REVEAL
033000.K	WATERSTOP
04 MASONRY	
042000.D	MASONRY VENTS @ 24" O.C., TYPICAL
05 METALS	
051200.A	STRUCTURAL STEEL MEMBER - RE: STRUCT.
051200.B	STEEL DECK EDGE ANGLE OR BENT PLATE. REF: STRUCTURAL
054000.A	MTL. STUD FRAMING CLIP. REF: STRUCTURAL
054000.B	MTL STUD KICKER @ 16" O.C.
06 WOODS, PLASTICS, & COMPOSITES	
061000.A	CONTINUOUS 2X TREATED WOOD BLOCKING
061000.B	5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER SYSTEM. AIR & WEATHER BARRIER SHALL BE CONTINUOUS.
07 THERMAL AND MOISTURE PROTECTION	
071400.A	WATERPROOF WALL/SLAB EDGE BELOW GRADE. BACKFILL WITH FREE DRAINING FILL
072100.B	DECK FLUTE INSULATION. THICKNESS AND PROFILE TO MATCH METAL DECK
072100.C	THERMALLY BROKEN Z-FURRING
072400.F	1/2" MUD-IN VENTED "F" REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
072400.I	3" MUD-IN VENTED "Z" REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
074113.G	STANDING SEAM METAL ROOF MOUNTING CLIP
074113.H	SELF-ADHERING, HIGH TEMP WATERPROOF MEMBRANE
074213.A	INSULATED METAL WALL PANEL TRIM EXTRUSION. COLOR TO MATCH WALL PANEL. NO POP RIVETS. PROVIDE WEEP HOLES @ 24" O.C.
083323.B	OVERHEAD COILING SECURITY GRILLE
084413.A	1" INSULATED GLASS SET IN ALUMINUM GLAZING FRAMING SYSTEM. CAULK PERIMETER. TYP
084413.B	CURTAIN WALL CLIP BY CURTAIN WALL MANUFACTURER.
084413.D	ALUMINUM FOUNDATION INSULATION PROTECTION FLASHING. COLOR TO MATCH GLAZING SYSTEM. NO EXPOSED FASTENERS.
084413.E	ALUMINUM FOUNDATION INSULATION PROTECTION FLASHING. COLOR TO MATCH ADJACENT METAL WALL PANEL. NO EXPOSED FASTENERS.
32 EXTERIOR IMPROVEMENTS	
320000.A	LANDSCAPE GRAVEL. REF: CIVIL AND LANDSCAPE

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REVISIONS:

100 % CONSTRUCTION DOCUMENTS
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WALL SECTIONS & DETAILS
A6.50

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5/18/2026

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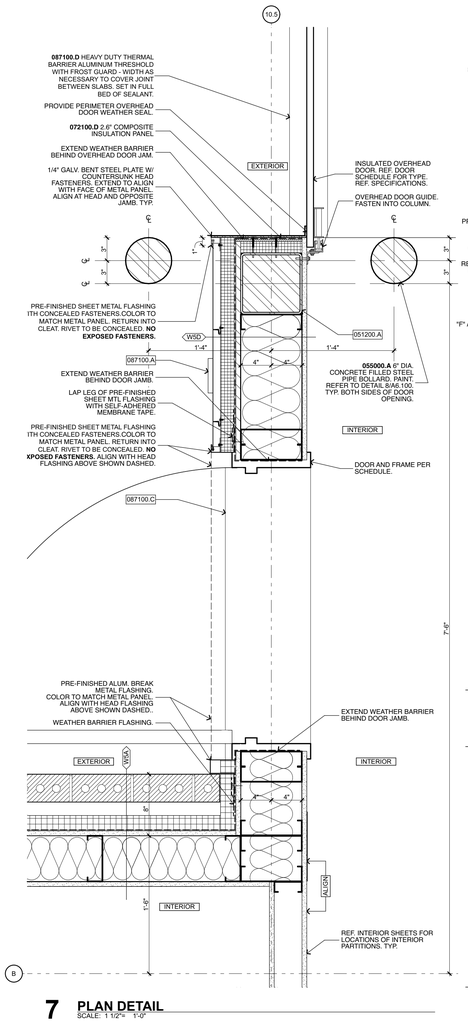

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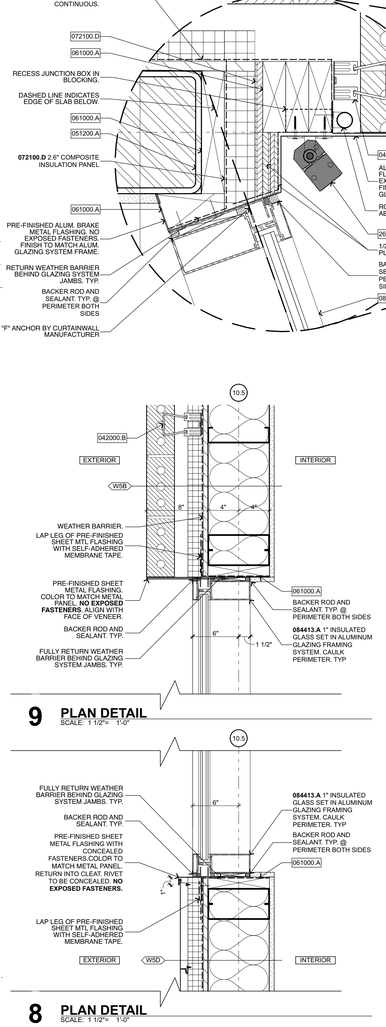

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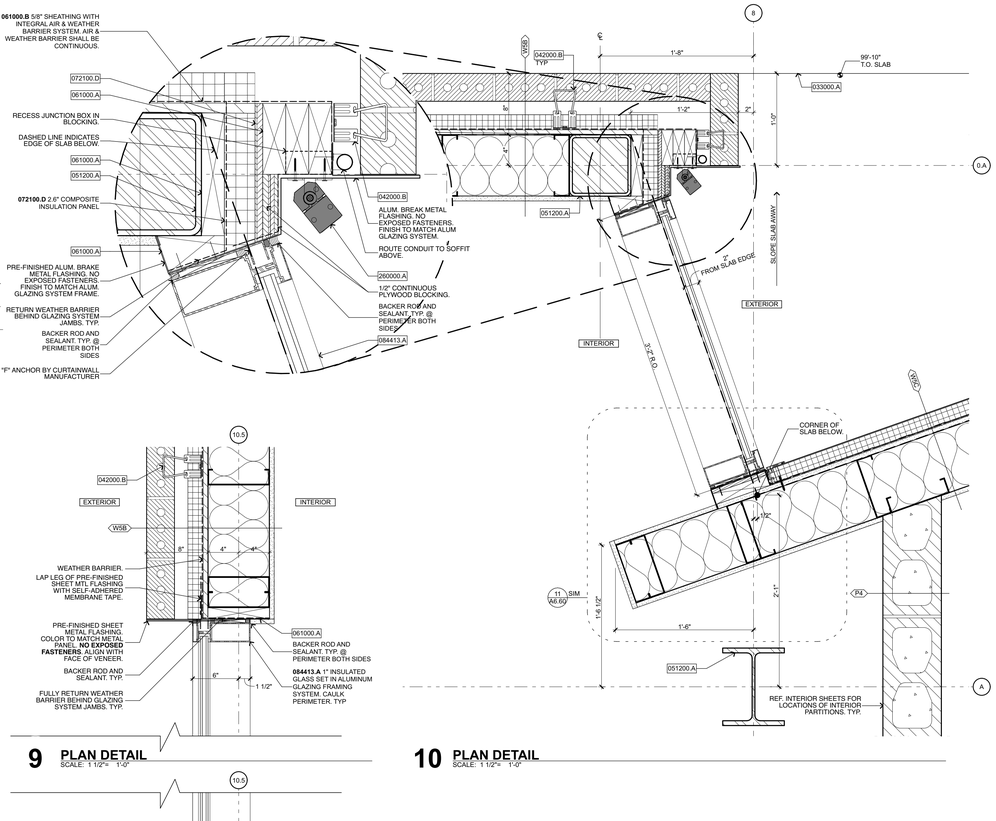

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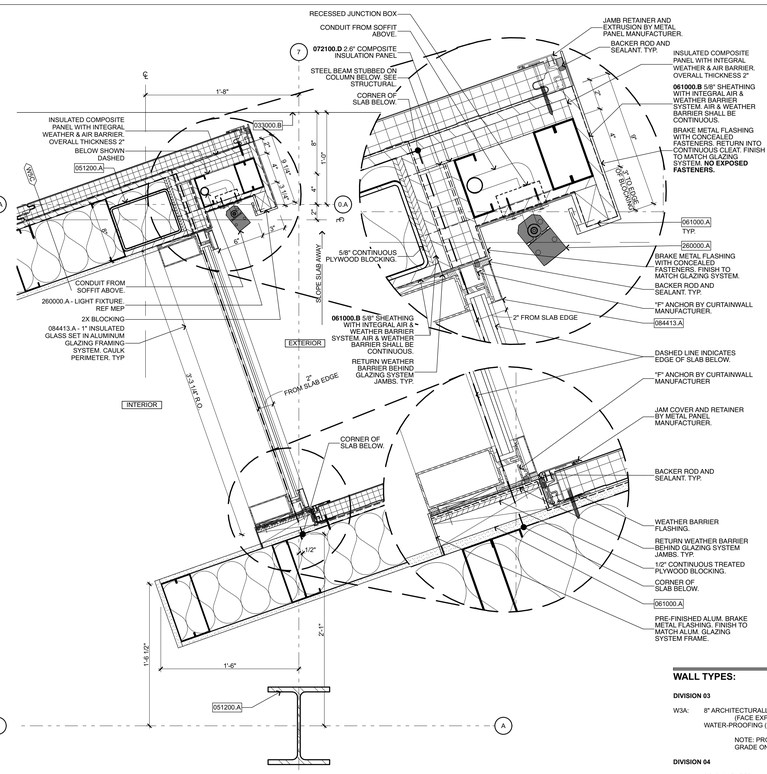

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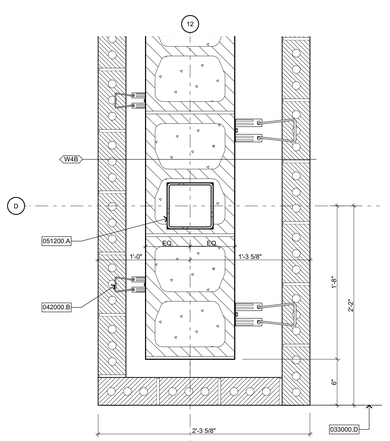

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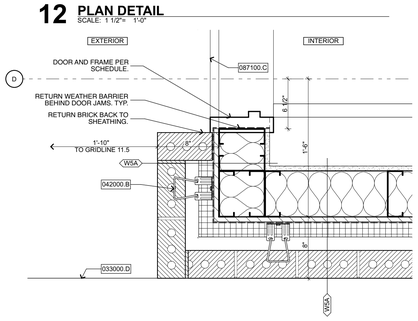

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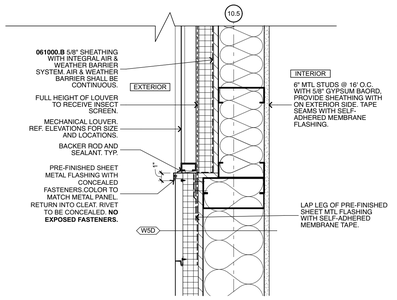

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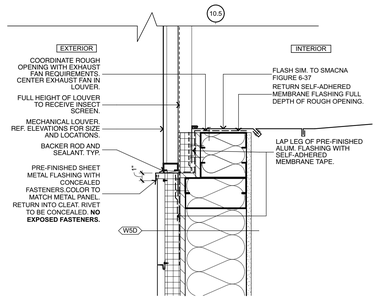

13 PLAN DETAIL @ EXHAUST FAN
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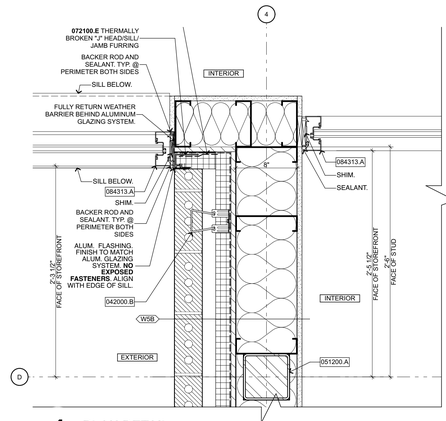

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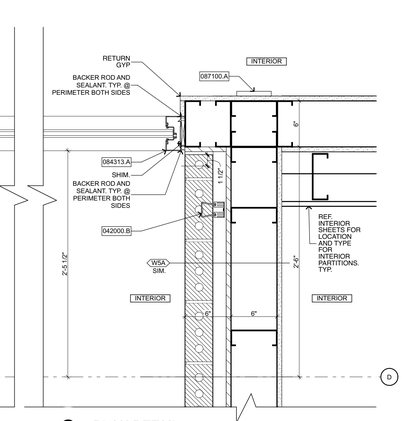

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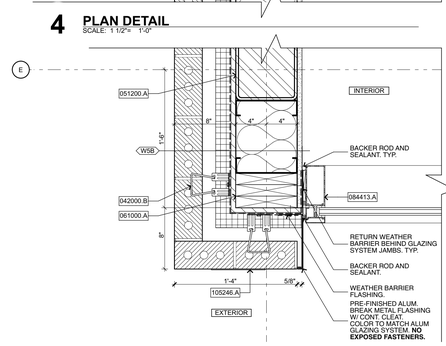

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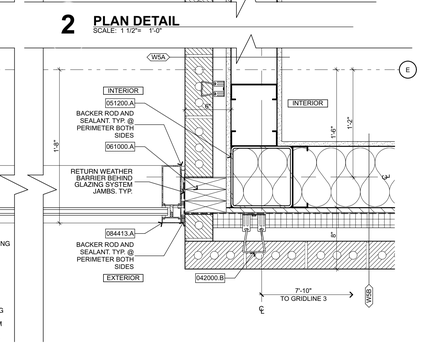

1 PLAN DETAIL
SCALE: 1 1/2"= 1'-0"

WALL TYPES:

DIVISION 03

W3A: 8" ARCHITECTURALLY FINISHED CAST-IN-PLACE CONCRETE WALL. (FACE EXPOSED TO VIEW ONLY)
WATER-PROOFING (REF. SECTION DETAILS FOR LOCATION)

NOTE: PROVIDE CONTINUOUS DAMP-PROOFING BELOW GRADE ON FINISHED FACE SIDE. REF. SECTION DETAILS.

DIVISION 04

W4A: BRICK VENEER
AIR SPACE
12" CMU

W4B: BRICK VENEER
AIR SPACE
12" CMU
AIR SPACE
BRICK VENEER

DIVISION 05

W5A: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5B: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5C: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5D: METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5E: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
METAL PANEL (TYPE 3)

W5F: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
5/8" TREATED PLYWOOD SHEATHING
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5G: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
2.6" COMPOSITE INSULATION PANEL
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5H: DIRECT APPLIED FINISH SYSTEM - TEXTURE TYPE 2.
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD

W5I: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5J: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

03 CONCRETE	
033000.A	CAST IN PLACE CONCRETE SLAB - RE: STRUCT.
033000.B	CAST IN PLACE FOOTING/FOUNDATION - RE: STRUCT.
033000.D	EXPANSION/ISOLATION JOINT
04 MASONRY	
042000.B	MASONRY TIE/ANCHOR, TYP.
05 METALS	
051200.A	STRUCTURAL STEEL MEMBER - RE: STRUCT.
055000.A	6" DIA. CONCRETE FILLED STEEL PIPE BOLLARD. PAINT. REFER TO DETAIL 8/A6.100
06 WOODS, PLASTICS, & COMPOSITES	
061000.A	CONTINUOUS 2X TREATED WOOD BLOCKING
061000.B	5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER SYSTEM. AIR & WEATHER BARRIER SHALL BE CONTINUOUS.
07 THERMAL AND MOISTURE PROTECTION	
072100.D	2.6" COMPOSITE INSULATION PANEL
072100.E	THERMALLY BROKEN "J" HEAD/SILL/JAMB FURRING
08 OPENINGS	
084313.A	EXTERIOR THERMALLY BROKEN ALUMINUM FRAMED STOREFRONT
084413.A	1" INSULATED GLASS SET IN ALUMINUM GLAZING FRAMING SYSTEM. CAULK PERIMETER. TYP
087100.A	ADA AUTOMATIC DOOR OPERATOR BUTTON - RECESSED WALL MOUNTED
087100.C	ALUMINUM DOOR THRESHOLD - WIDTH AS NECESSARY TO COVER JOINT BETWEEN SLABS. SET IN FULL BED OF SEALANT.
087100.D	HEAVY DUTY THERMAL BARRIER ALUMINUM THRESHOLD WITH FROST GUARD - WIDTH AS NECESSARY TO COVER JOINT BETWEEN SLABS. SET IN FULL BED OF SEALANT.
10 SPECIALTIES	
105246.A	RECESSED KNOX BOX MOUNTED @ 5'-0" A.F.F. FINISH: ALUMINUM
26 ELECTRICAL	
260000.A	LIGHT FIXTURE. REF MEP

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PLAN DETAILS
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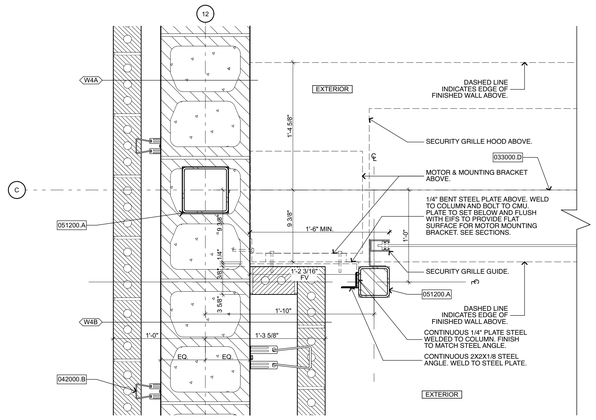
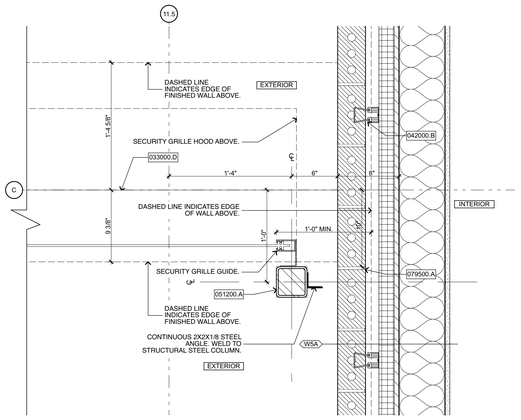


9 PLAN DETAIL
SCALE: 1 1/2"= 1'-0"



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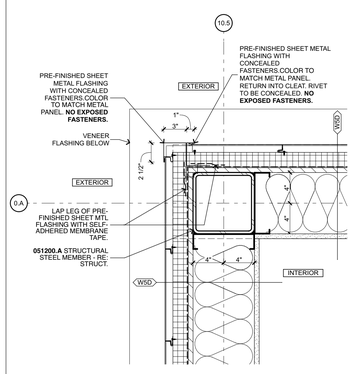

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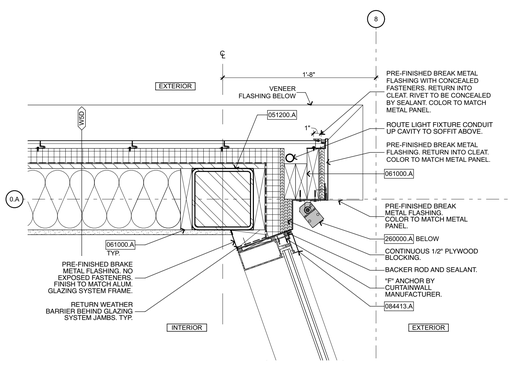

8 PLAN DETAIL
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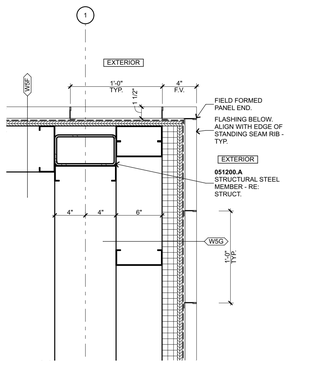

11 TYP. STANDING SEAM CORNER DETAIL
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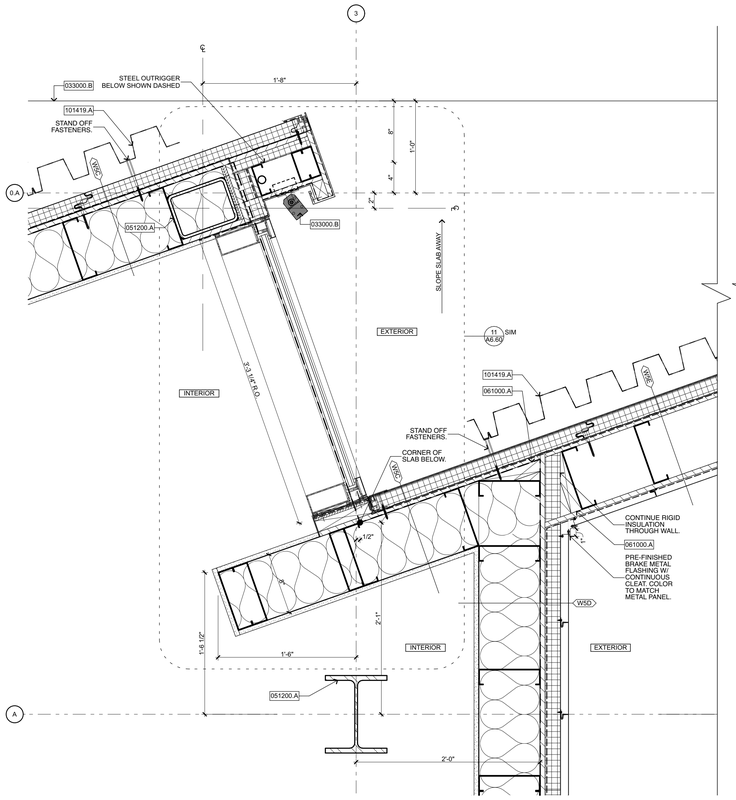

6 PLAN DETAIL
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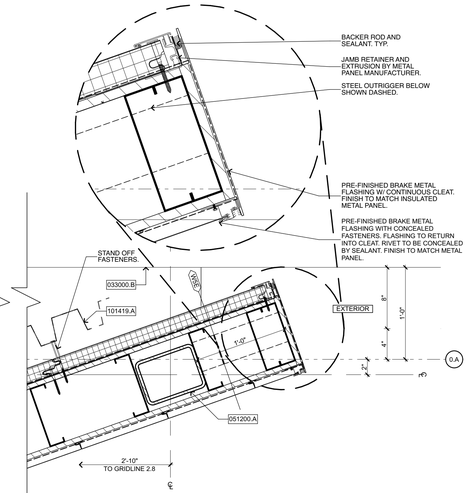

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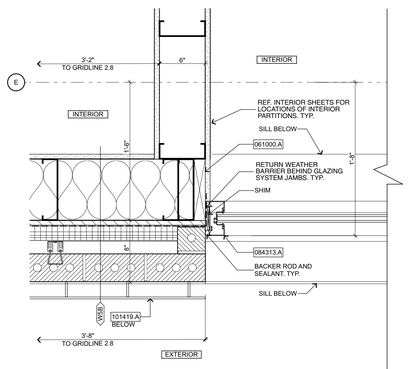

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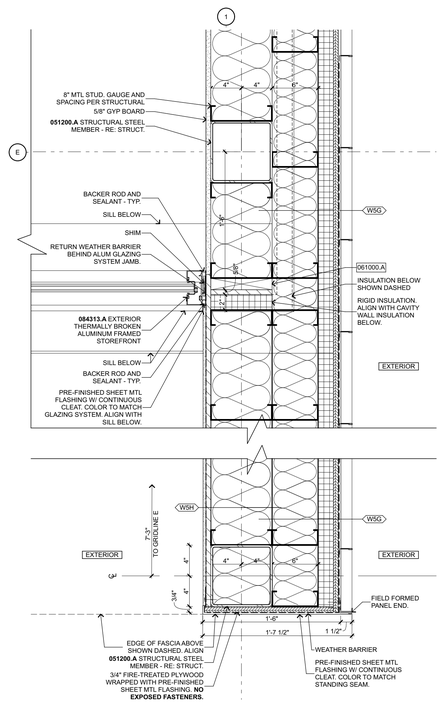

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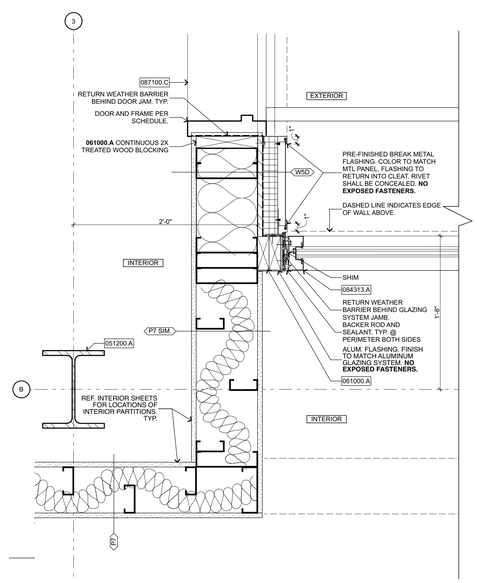

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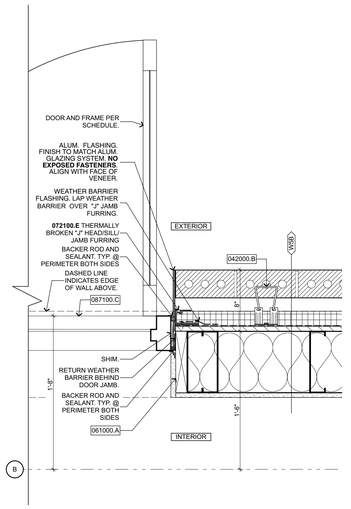

1 PLAN DETAIL
SCALE: 1 1/2"= 1'-0"

WALL TYPES:

DIVISION 03

W3A: 8" ARCHITECTURALLY FINISHED CAST-IN-PLACE CONCRETE WALL. (FACE EXPOSED TO VIEW ONLY)
WATER-PROOFING (REF. SECTION DETAILS FOR LOCATION)

NOTE: PROVIDE CONTINUOUS DAMP-PROOFING BELOW GRADE ON FINISHED FACE SIDE. REF. SECTION DETAILS.

DIVISION 04

W4A: BRICK VENEER
AIR SPACE
12" CMU

W4B: BRICK VENEER
AIR SPACE
12" CMU
AIR SPACE
BRICK VENEER

DIVISION 05

W5A: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5B: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5C: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5D: METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5E: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
METAL PANEL (TYPE 3)

W5F: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
5/8" TREATED PLYWOOD SHEATHING
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5G: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
2.6" COMPOSITE INSULATION PANEL
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5H: DIRECT APPLIED FINISH SYSTEM - TEXTURE TYPE 2
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD

W5I: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5J: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

03 CONCRETE	
033000.B	CAST IN PLACE FOOTING/FOUNDATION - RE: STRUCT.
033000.D	EXPANSION/ISOLATION JOINT
04 MASONRY	
042000.B	MASONRY TIE/ANCHOR, TYP.
05 METALS	
051200.A	STRUCTURAL STEEL MEMBER - RE: STRUCT.
06 WOODS, PLASTICS, & COMPOSITES	
061000.A	CONTINUOUS 2X TREATED WOOD BLOCKING
07 THERMAL AND MOISTURE PROTECTION	
072100.E	THERMALLY BROKEN "J" HEAD/SILL/JAMB FURRING
079500.A	EXPANSION JOINT
08 OPENINGS	
084313.A	EXTERIOR THERMALLY BROKEN ALUMINUM FRAMED STOREFRONT
084413.A	1" INSULATED GLASS SET IN ALUMINUM GLAZING FRAMING SYSTEM. CAULK PERIMETER. TYP.
087100.C	ALUMINUM DOOR THRESHOLD - WIDTH AS NECESSARY TO COVER JOINT BETWEEN SLABS. SET IN FULL BED OF SEALANT.
10 SPECIALTIES	
101419.A	3" DEEP PERFORATED METAL DECK CUT INTO LETTERS. INSTALL FLUTES VERTICALLY. COORDINATE PANEL JOINTS WITH ARCHITECT. PANELS SHALL BE MOUNTED WITH 2" STAND-OFFS. POWDERCOAT FINISH. COLOR: ASU RED. 11'-0" TALL LETTERS. FONT: ARIAL, BOLD. CENTER LETTER OF WALL - TYPICAL
26 ELECTRICAL	
260000.A	LIGHT FIXTURE. REF MEP

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PLAN DETAILS
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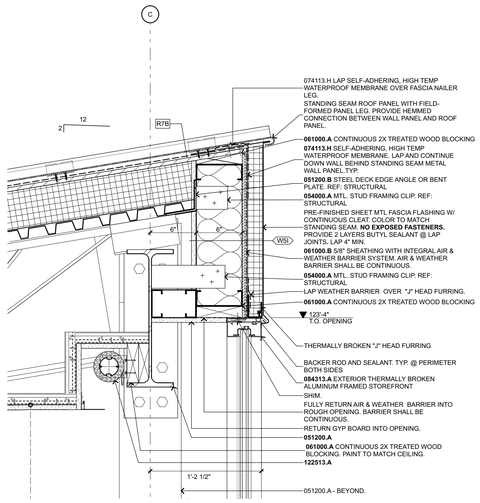
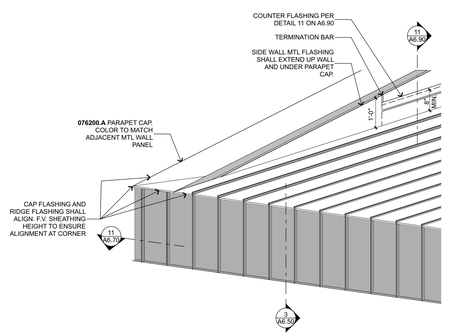
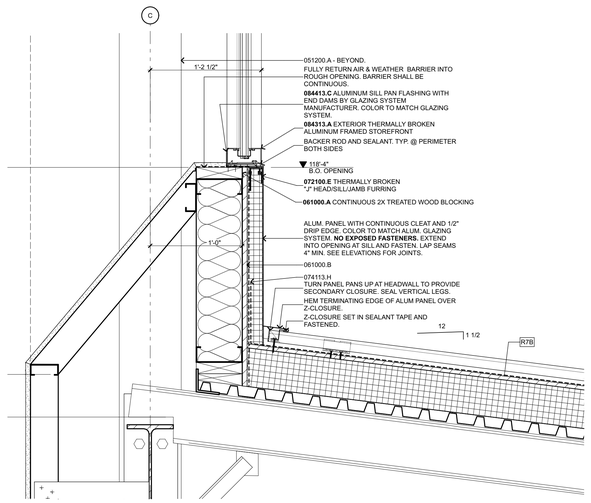


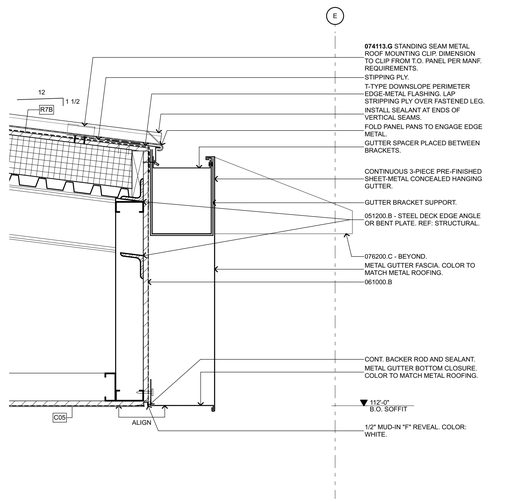
6 SECTION DETAIL
SCALE: 1 1/2"= 1'-0"



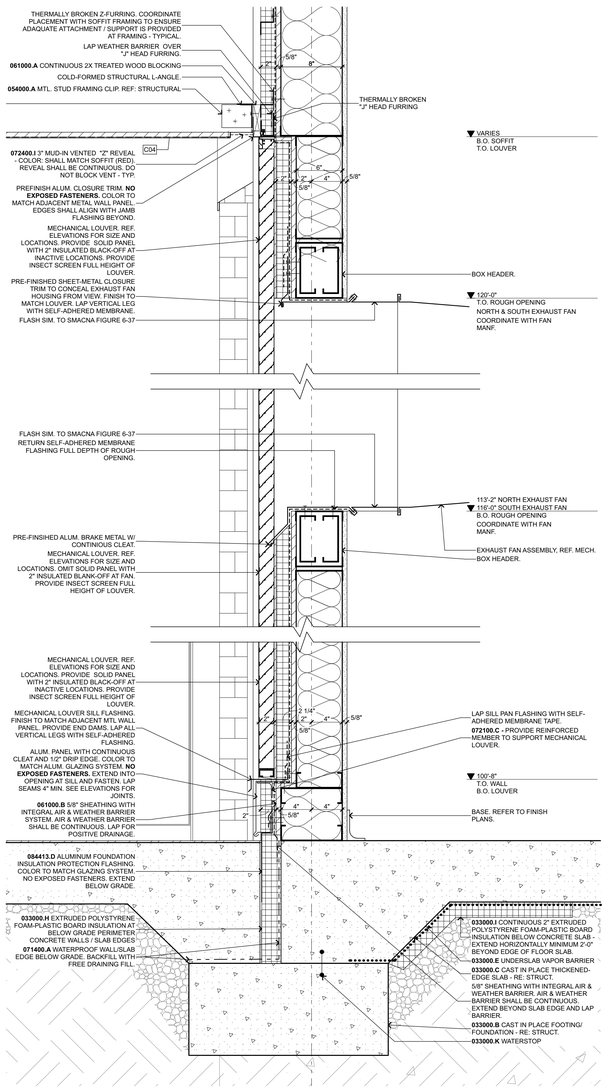
9 NORTH-WEST CORNER FLASHING
SCALE: 1/2" = 1'-0"



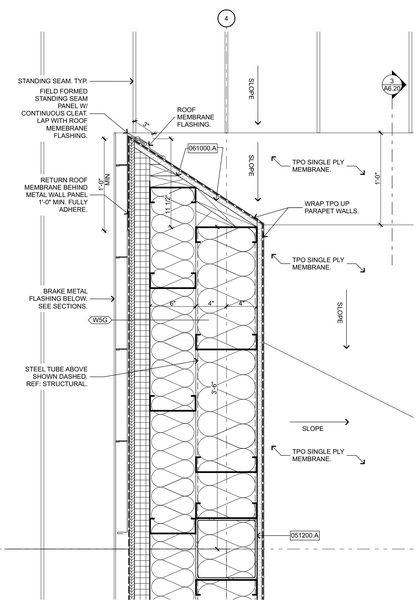
5 SECTION DETAIL
SCALE: 1 1/2"= 1'-0"



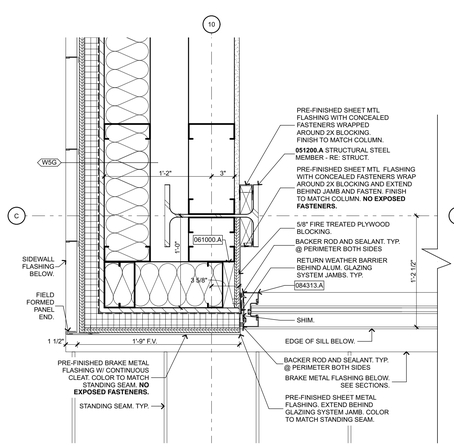
7 SECTION DETAIL
SCALE: 1 1/2"= 1'-0"



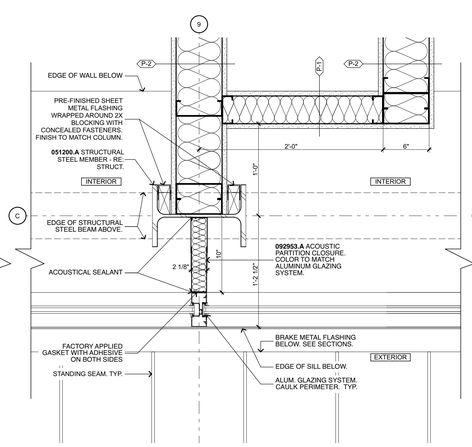
8 Wall Section
SCALE: 1 1/2"= 1'-0"



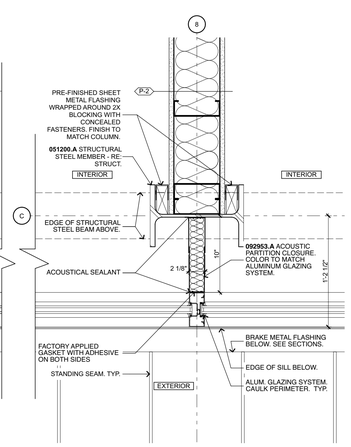
1 ROOF PLAN DETAIL
SCALE: 1 1/2"= 1'-0"



2 ROOF PLAN DETAIL
SCALE: 1 1/2"= 1'-0"



3 ROOF PLAN DETAIL
SCALE: 1 1/2"= 1'-0"



4 ROOF PLAN DETAIL
SCALE: 1 1/2"= 1'-0"

WALL TYPES:

DIVISION 03

W3A: 8" ARCHITECTURALLY FINISHED CAST-IN-PLACE CONCRETE WALL. (FACE EXPOSED TO VIEW ONLY)
WATER-PROOFING (REF. SECTION DETAILS FOR LOCATION)

NOTE: PROVIDE CONTINUOUS DAMP-PROOFING BELOW GRADE ON FINISHED FACE SIDE. REF. SECTION DETAILS.

DIVISION 04

W4A: BRICK VENEER
AIR SPACE
12" CMU

W4B: BRICK VENEER
AIR SPACE
12" CMU
AIR SPACE
BRICK VENEER

DIVISION 05

W5A: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5B: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5C: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5D: METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5E: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
METAL PANEL (TYPE 3)

W5F: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
5/8" TREATED PLYWOOD SHEATHING
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5G: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
2.6" COMPOSITE INSULATION PANEL
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5H: DIRECT APPLIED FINISH SYSTEM - TEXTURE TYPE 2.
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD

W5I: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5J: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

03 CONCRETE	
033000.B	CAST IN PLACE FOOTING/FOUNDATION - RE: STRUCT.
033000.C	CAST IN PLACE THICKENED-EDGE SLAB - RE: STRUCT.
033000.E	UNDERSLAB VAPOR BARRIER
033000.H	EXTRUDED POLYSTYRENE FOAM-PLASTIC BOARD INSULATION AT BELOW GRADE PERIMETER CONCRETE WALLS / SLAB EDGES
033000.I	CONTINUOUS 2" EXTRUDED POLYSTYRENE FOAM-PLASTIC BOARD INSULATION BELOW CONCRETE SLAB - EXTEND HORIZONTALLY MINIMUM 2'-0" BEYOND EDGE OF FLOOR SLAB.
033000.K	WATERSTOP
05 METALS	
051200.A	STRUCTURAL STEEL MEMBER - RE: STRUCT.
051200.B	STEEL DECK EDGE ANGLE OR BENT PLATE. REF: STRUCTURAL
054000.A	MTL. STUD FRAMING CLIP. REF: STRUCTURAL
06 WOODS, PLASTICS, & COMPOSITES	
061000.A	CONTINUOUS 2X TREATED WOOD BLOCKING
061000.B	5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER SYSTEM. AIR & WEATHER BARRIER SHALL BE CONTINUOUS.
07 THERMAL AND MOISTURE PROTECTION	
071400.A	WATERPROOF WALL/SLAB EDGE BELOW GRADE. BACKFILL WITH FREE DRAINING FILL.
072100.C	THERMALLY BROKEN Z-FURRING
072100.E	THERMALLY BROKEN "J" HEAD/SILL/JAMB FURRING
072400.B	1/2" MUD-IN VENTED REVEAL - COLOR: WHITE. REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
072400.I	3" MUD-IN VENTED "Z" REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
074113.G	STANDING SEAM METAL ROOF MOUNTING CLIP.
074113.H	SELF-ADHERING, HIGH TEMP WATERPROOF MEMBRANE
076200.A	PARAPET CAP. COLOR TO MATCH ADJACENT MTL WALL PANEL
076200.C	PRE-FINISHED METAL SCUPPER. COLOR TO MATCH GUTTER. SEE DETAIL 3 &4 ON SHEET A4.00.
08 OPENINGS	
084313.A	EXTERIOR THERMALLY BROKEN ALUMINUM FRAMED STOREFRONT
084413.C	ALUMINUM SILL PAN FLASHING WITH END DAMS BY GLAZING SYSTEM MANUFACTURER. COLOR TO MATCH GLAZING SYSTEM.
084413.D	ALUMINUM FOUNDATION INSULATION PROTECTION FLASHING. COLOR TO MATCH GLAZING SYSTEM. NO EXPOSED FASTENERS.
09 FINISHES	
092953.A	ACOUSTIC PARTITION CLOSURE. COLOR TO MATCH ALUMINUM GLAZING SYSTEM.
12 FURNISHINGS	
122513.A	MOTORIZED WINDOW ROLLER SHADE

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REVISIONS:

100 % CONSTRUCTION DOCUMENTS
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PLAN DETAILS & SECTION DETAILS
A6.80

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5/18/2026

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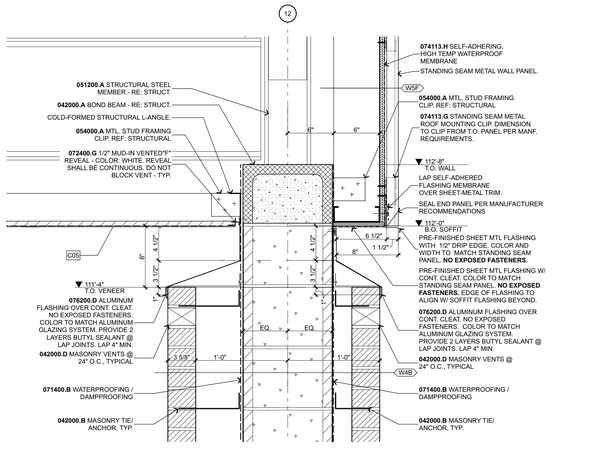
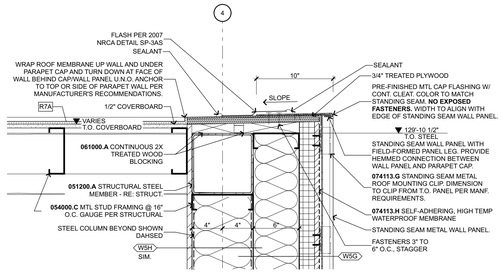


2 SECTION DETAIL
SCALE: 1 1/2"= 1'-0"



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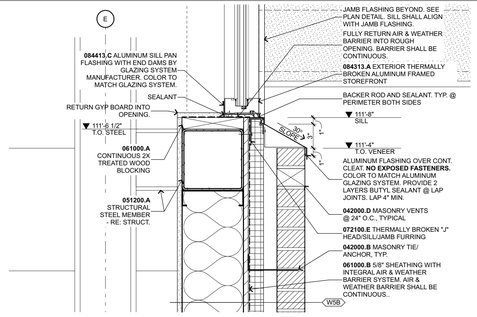

10 SECTION DETAIL
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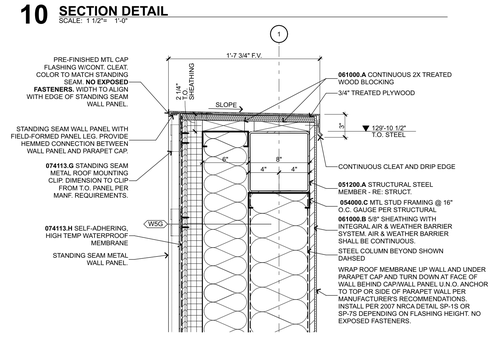
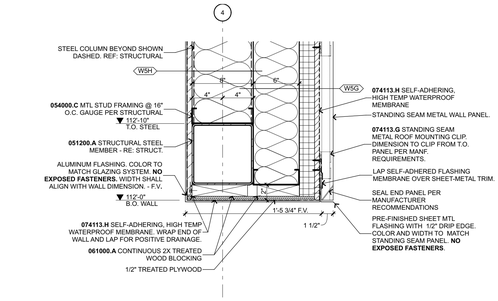
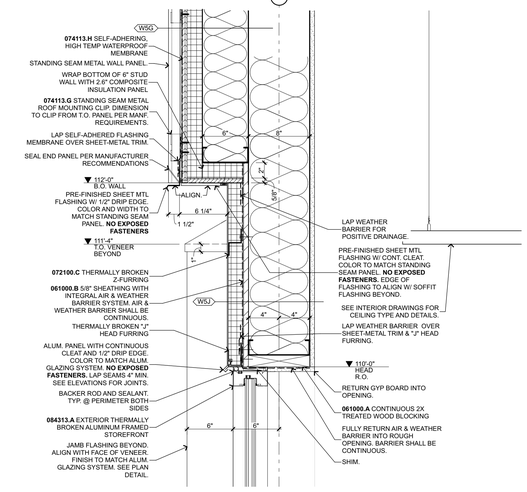


9 SECTION DETAIL
SCALE: 1 1/2"= 1'-0"

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

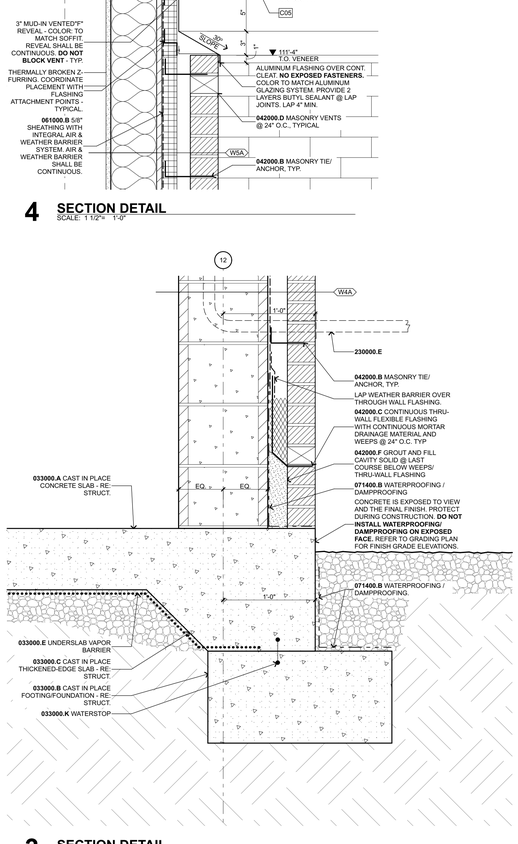


5 SECTION DETAIL
SCALE: 1 1/2"= 1'-0"



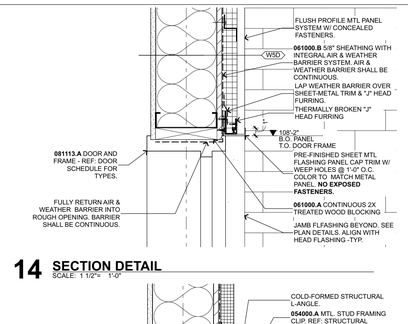
7 SECTION DETAIL
SCALE: 1 1/2"= 1'-0"

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



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

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



14 SECTION DETAIL
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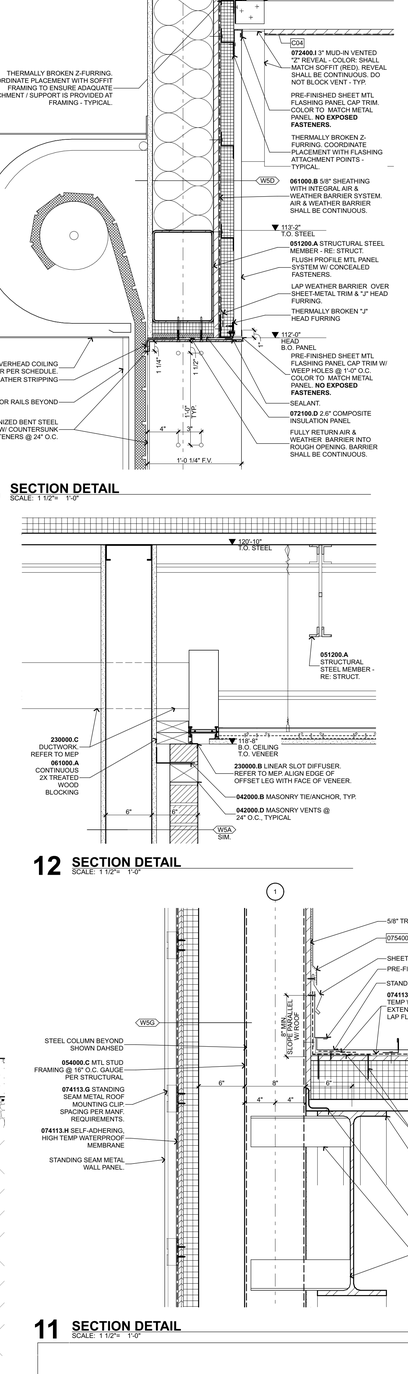

13 SECTION DETAIL
SCALE: 1 1/2"= 1'-0"

12 SECTION DETAIL
SCALE: 1 1/2"= 1'-0"

11 SECTION DETAIL
SCALE: 1 1/2"= 1'-0"

ROOF TYPES:

R7A: T.P.O. SINGLE PLY MEMBRANE OVER 1/2" COVERBOARD OVER MINIMUM (2) LAYERS OF POLYISO STAGGERED. BOARD INSULATION TO EQUAL MINIMUM R-30 (OR IF TAPERED R-30 MIN VALUE) OVER METAL DECK PER STRUCTURAL.

R7B: STANDING SEAM METAL ROOF PANEL OVER CONTINUOUS SELF-ADHERING, HIGH TEMP WATERPROOFING SHEET MEMBRANE OVER 5/8" SHEATHING OVER MINIMUM (2) LAYERS OF POLYISO STAGGERED (R-30 MIN VALUE) OVER METAL DECK PER STRUCTURAL.

CEILING TYPES:

C03: 5/8" GYPSUM BOARD OVER DRYWALL SUSPENSION SYSTEM

C04: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: RED TEXTURE TYPE 1

C05: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: WHITE. TEXTURE TYPE 1.

C06: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: WHITE. TEXTURE TYPE 2.

WALL TYPES:

DIVISION 03

W3A: 8" ARCHITECTURALLY FINISHED CAST-IN-PLACE CONCRETE WALL. (FACE EXPOSED TO VIEW ONLY)
WATER-PROOFING (REF. SECTION DETAILS FOR LOCATION)

NOTE: PROVIDE CONTINUOUS DAMP-PROOFING BELOW GRADE ON FINISHED FACE SIDE. REF. SECTION DETAILS.

DIVISION 04

W4A: BRICK VENEER
AIR SPACE
12" CMU

W4B: BRICK VENEER
AIR SPACE
12" CMU
AIR SPACE
BRICK VENEER

DIVISION 05

W5A: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5B: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5C: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5D: METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5E: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
METAL PANEL (TYPE 3)

W5F: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
5/8" TREATED PLYWOOD SHEATHING
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5G: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
2.6" COMPOSITE INSULATION PANEL
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5H: DIRECT APPLIED FINISH SYSTEM - TEXTURE TYPE 2
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD

W5I: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5J: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

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SECTION DETAILS
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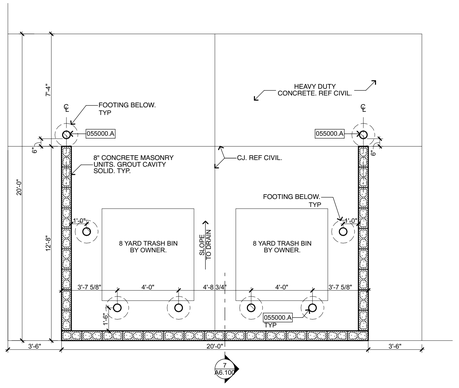
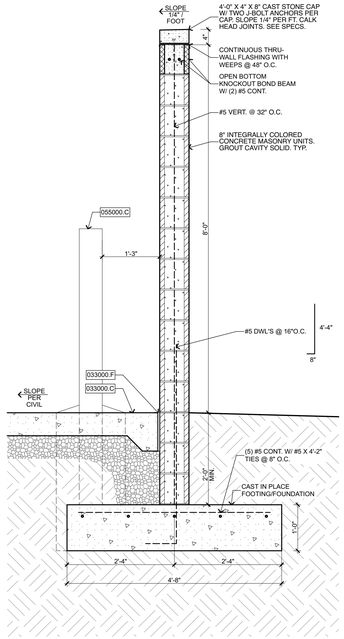
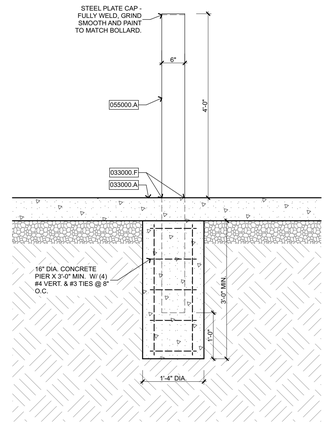


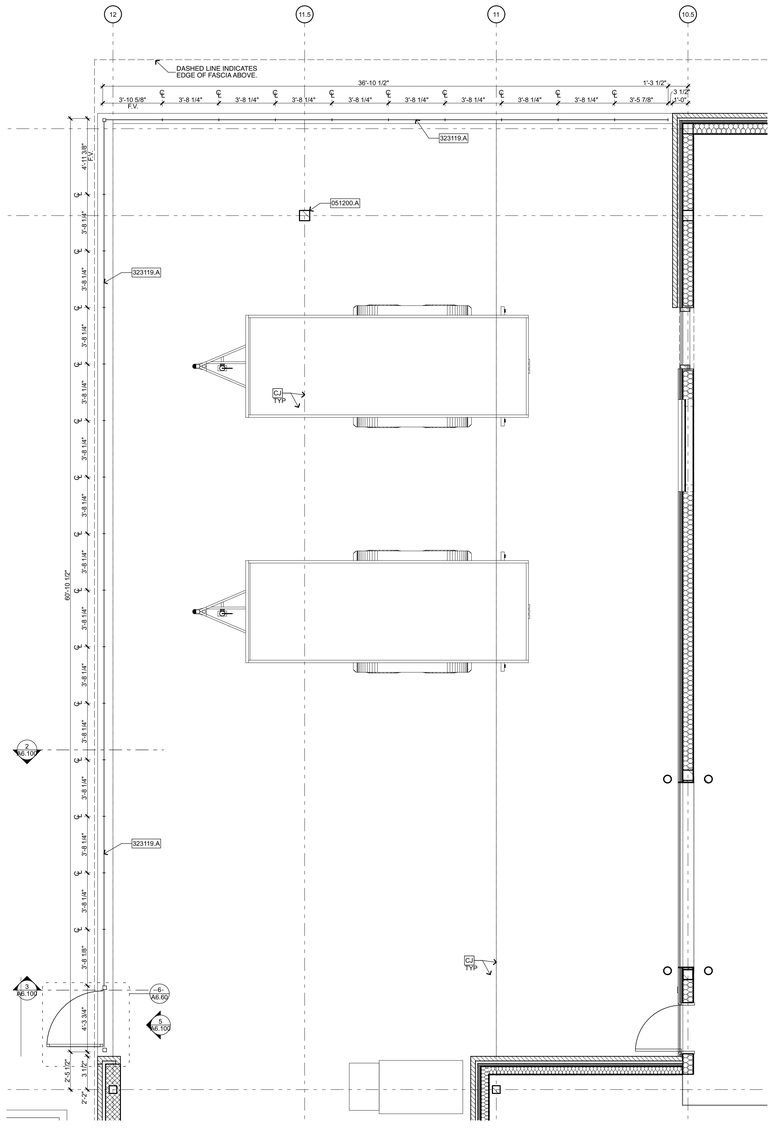
6 TRASH ENCLOSURE ENLARGED PLAN
SCALE: 1/4" = 1'-0"



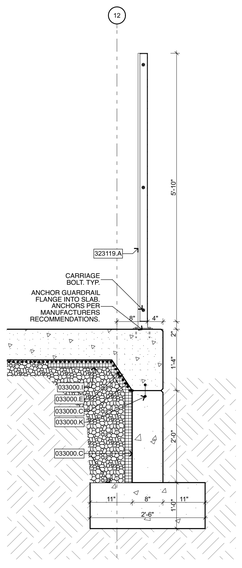
7 TRASH ENCLOSURE WALL SECTION
SCALE: 3/4" = 1'-0"



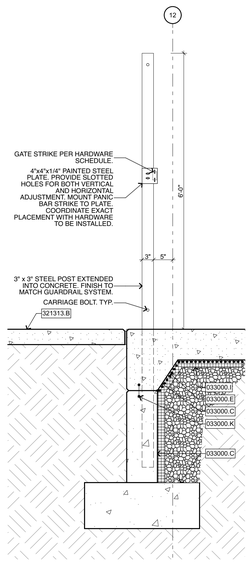
8 INTERIOR STEEL BOLLARD DETAIL
SCALE: 3/4" = 1'-0"



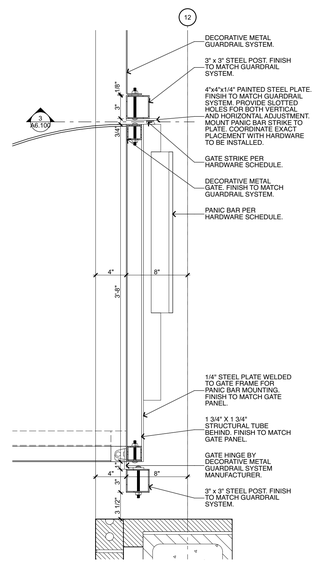
1 GUARDRAIL ENLARGED PLAN
SCALE: 1/4" = 1'-0"



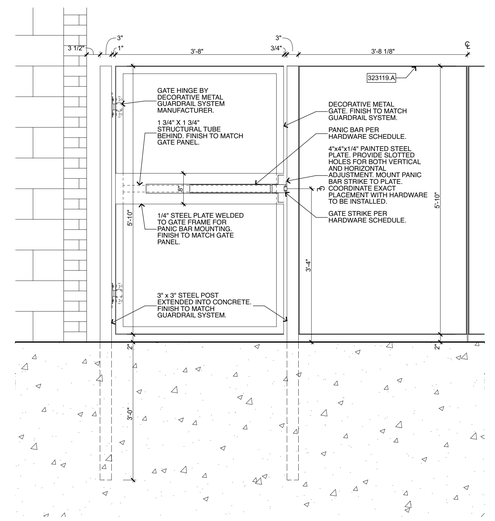
2 GUARDRAIL DETAIL, TYP.
SCALE: 3/4" = 1'-0"



3 GUARDRAIL SECTION DETAIL
SCALE: 3/4" = 1'-0"



4 GUARDRAIL GATE PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



5 GATE ELEVATION DETAIL
SCALE: 3/4" = 1'-0"

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SECTION & RAILING DETAILS
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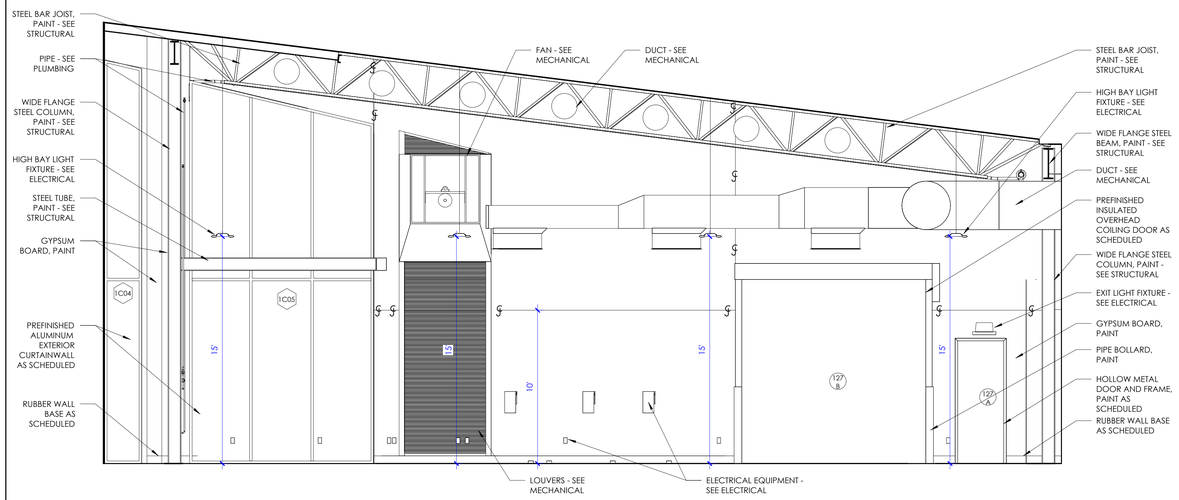
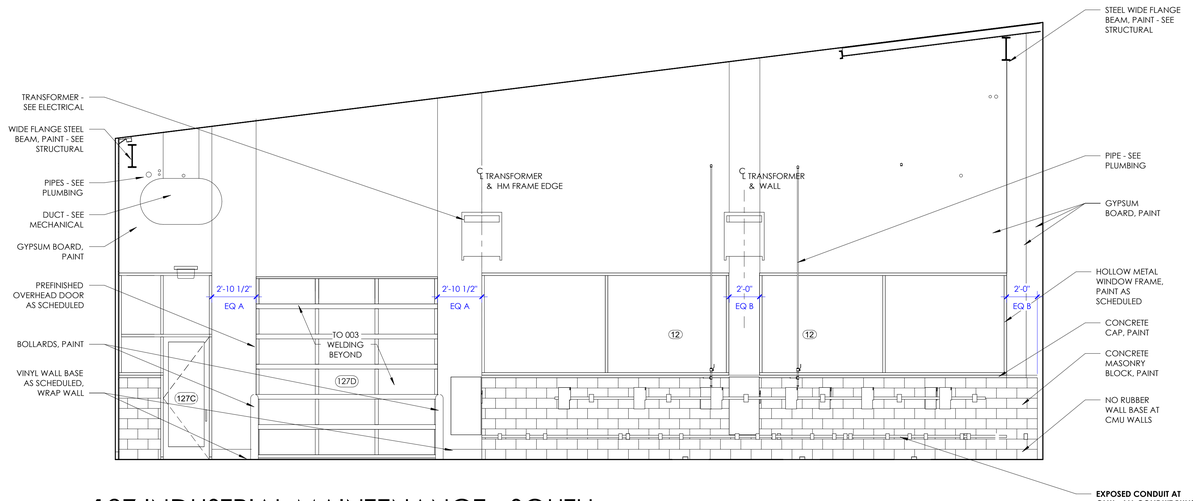
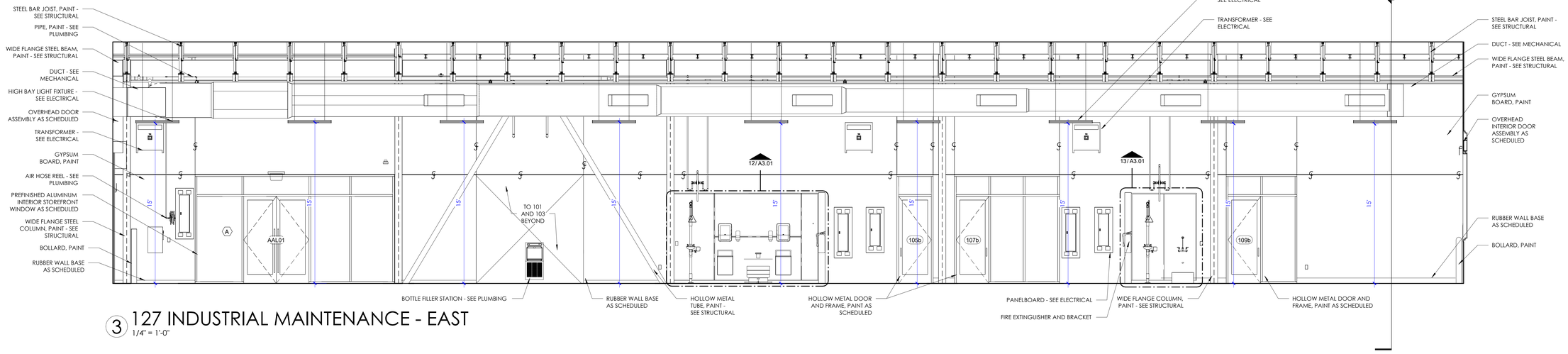


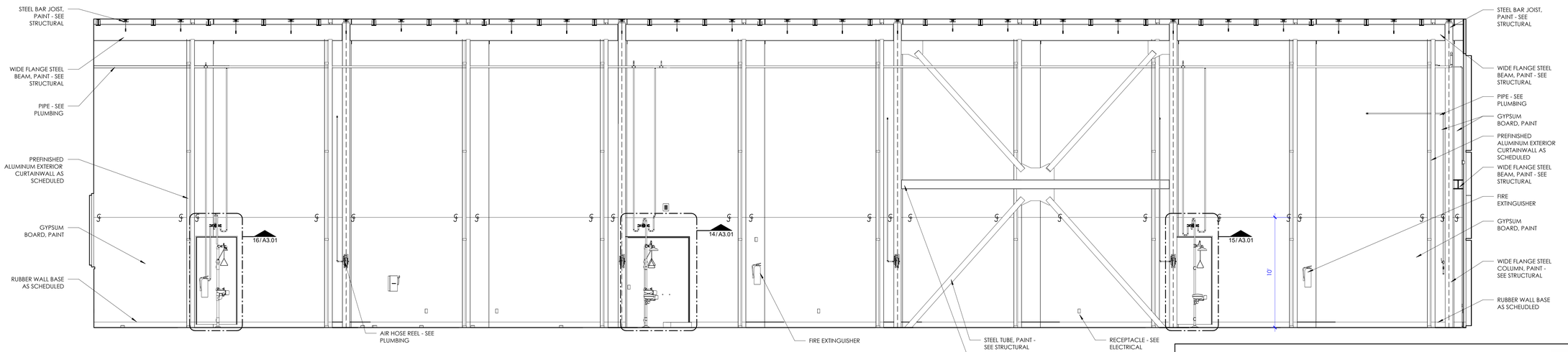
1 127 INDUSTRIAL MAINTENANCE - NORTH
1/4" = 1'-0"



2 127 INDUSTRIAL MAINTENANCE - SOUTH
1/4" = 1'-0"



3 127 INDUSTRIAL MAINTENANCE - EAST
1/4" = 1'-0"



4 127 INDUSTRIAL MAINTENANCE - WEST
1/4" = 1'-0"

5/15/2026 5:48:31 PM

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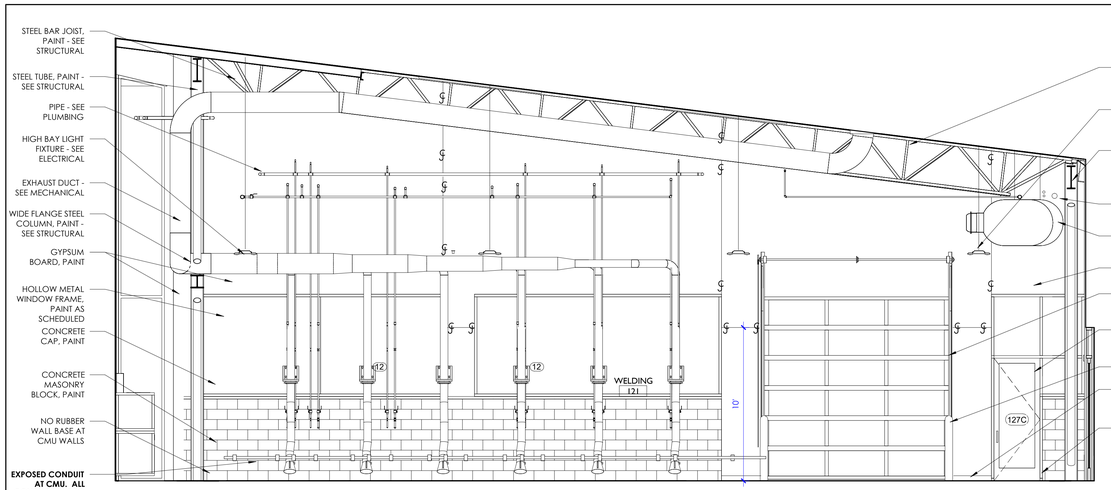
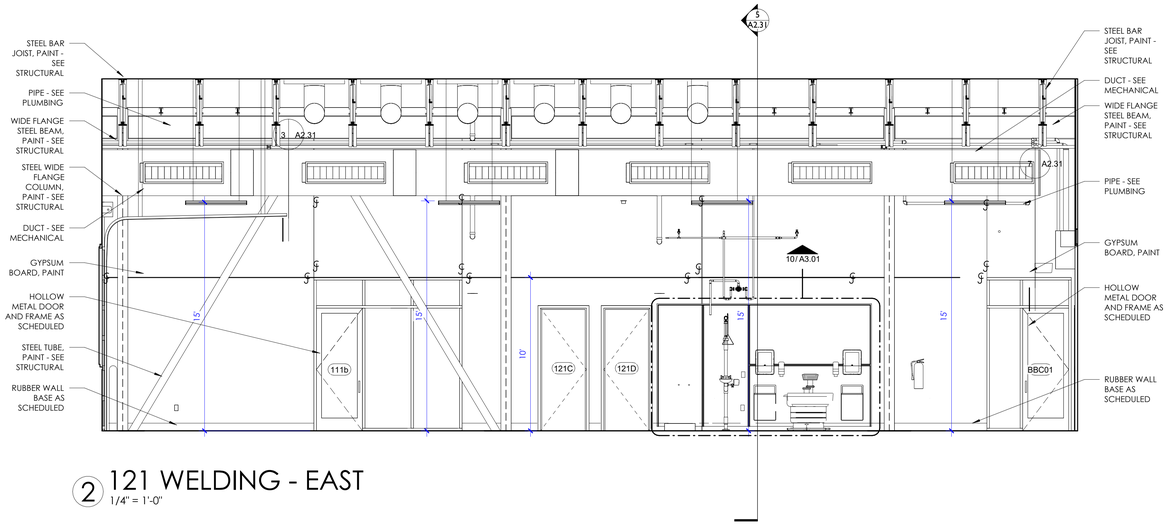
INTERIOR ELEVATIONS
A7.01

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

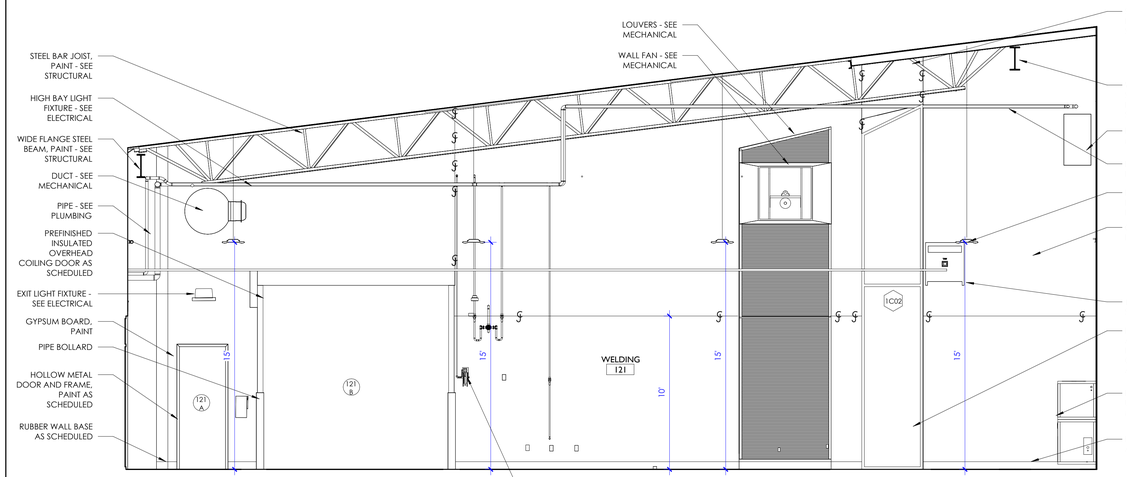
REGISTERED ARCHITECT
FENNELL PURIFOY
No. 11112
ARKANSAS
5.18.26



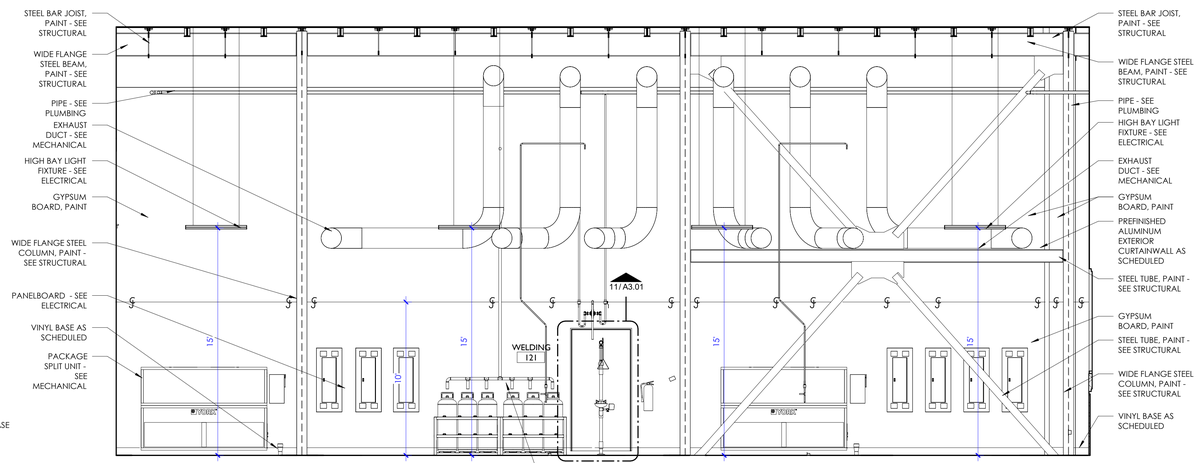
1 121 WELDING - NORTH
1/4" = 1'-0"



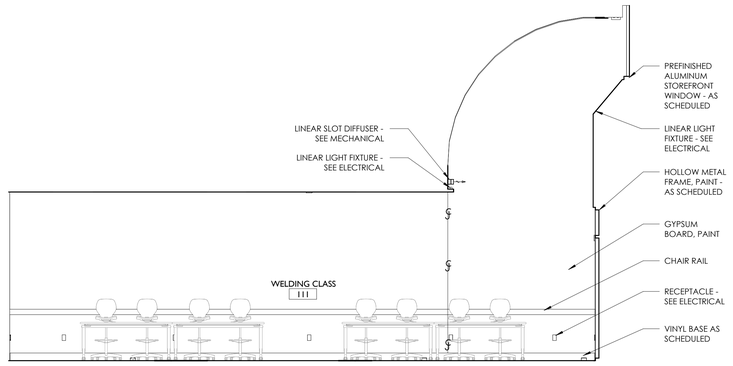
2 121 WELDING - EAST
1/4" = 1'-0"



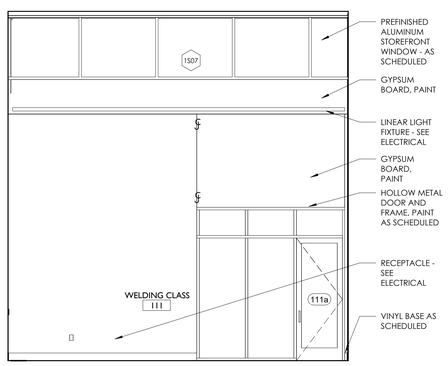
3 121 WELDING - SOUTH
1/4" = 1'-0"



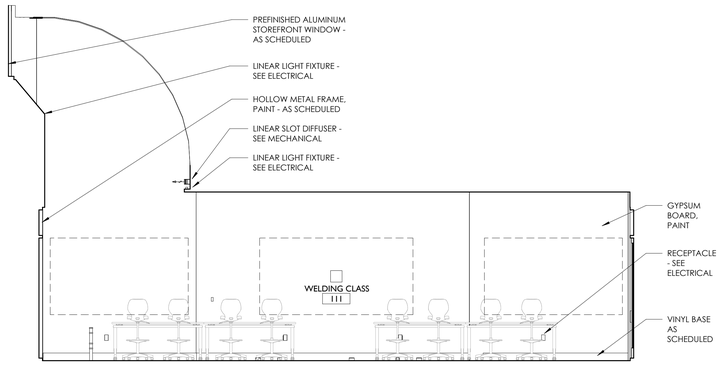
4 121 WELDING - WEST
1/4" = 1'-0"



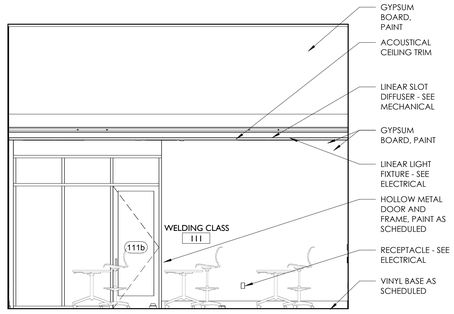
5 111 WELDING CLASS - NORTH
1/4" = 1'-0"



6 111 WELDING CLASS - EAST
1/4" = 1'-0"



7 111 WELDING CLASS - SOUTH
1/4" = 1'-0"



8 111 WELDING CLASS - WEST
1/4" = 1'-0"

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INTERIOR ELEVATIONS
A7.11

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

REGISTERED ARCHITECT FENNELL PURIFOY No. 11512 ARKANSAS 5.18.26

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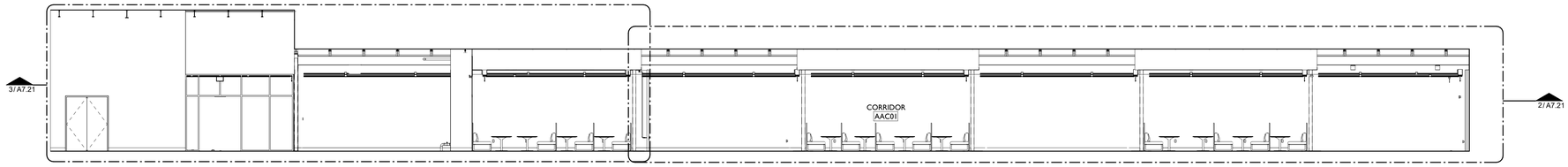
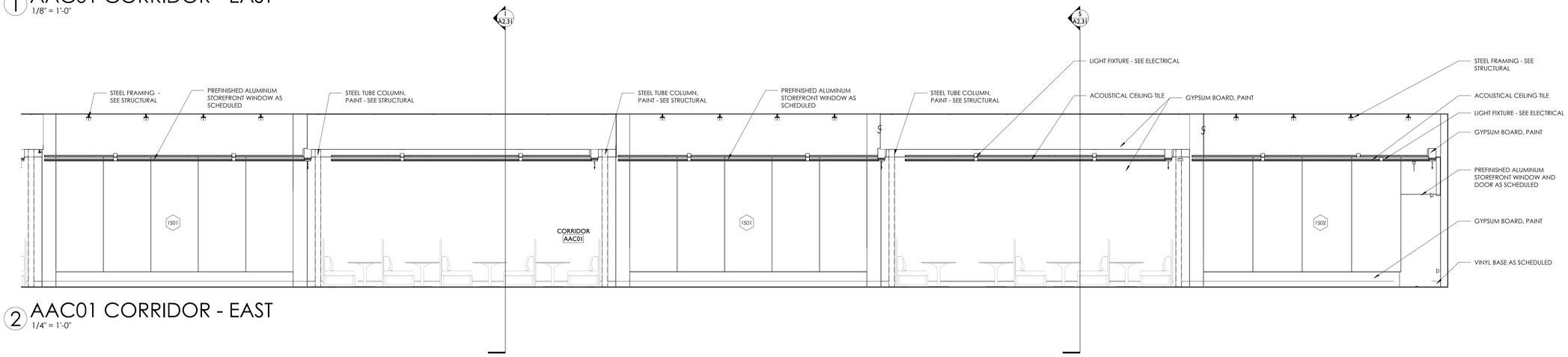
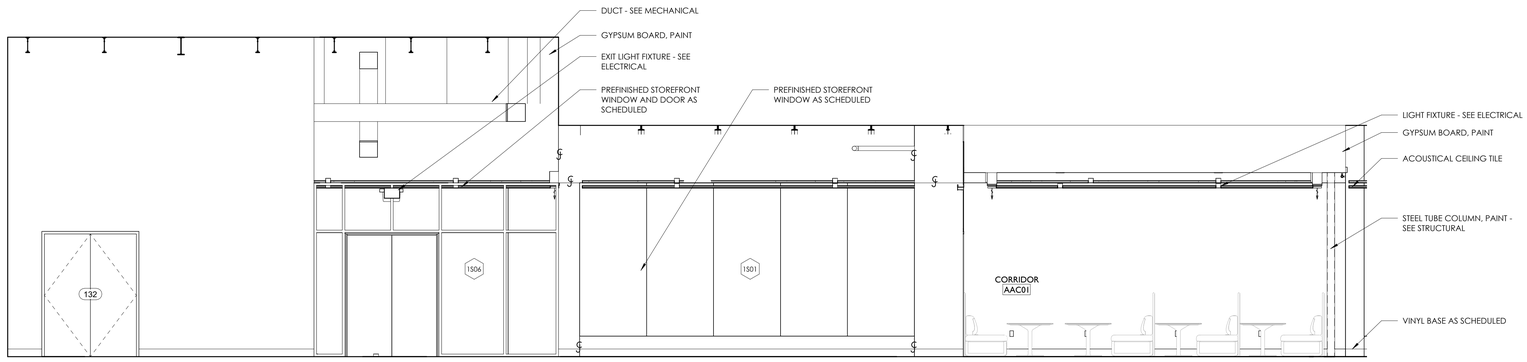


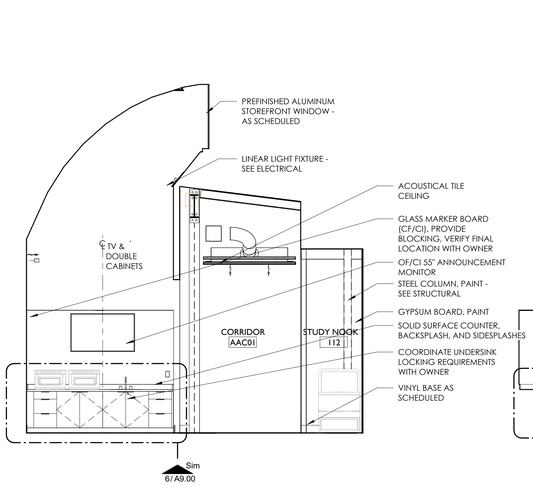
1 AAC01 CORRIDOR - EAST
1/8" = 1'-0"



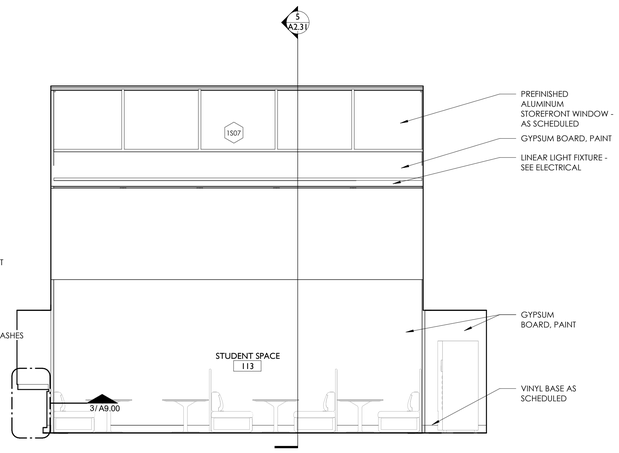
2 AAC01 CORRIDOR - EAST
1/4" = 1'-0"



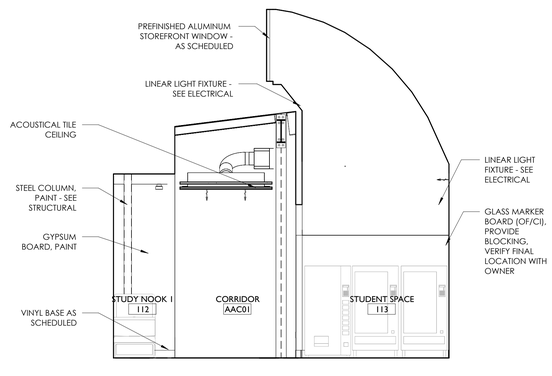
3 AAC01 CORRIDOR - EAST
1/4" = 1'-0"



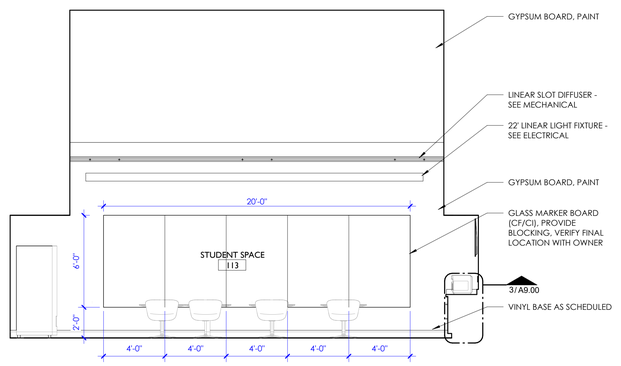
4 116 STUDENT SPACE - NORTH
1/4" = 1'-0"



5 116 STUDENT SPACE - EAST
1/4" = 1'-0"



6 116 STUDENT SPACE - SOUTH
1/4" = 1'-0"



7 116 STUDENT SPACE - WEST
1/4" = 1'-0"

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REGISTERED ARCHITECT — JEFFREY PURIFOY — No. LL2 — ARKANSAS — 5.18.26

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A7.21

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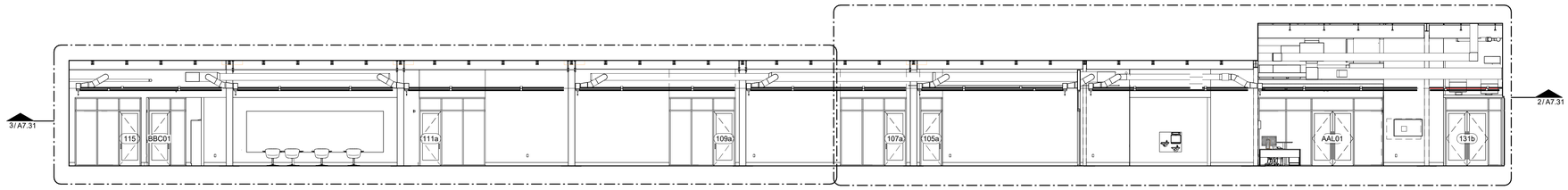
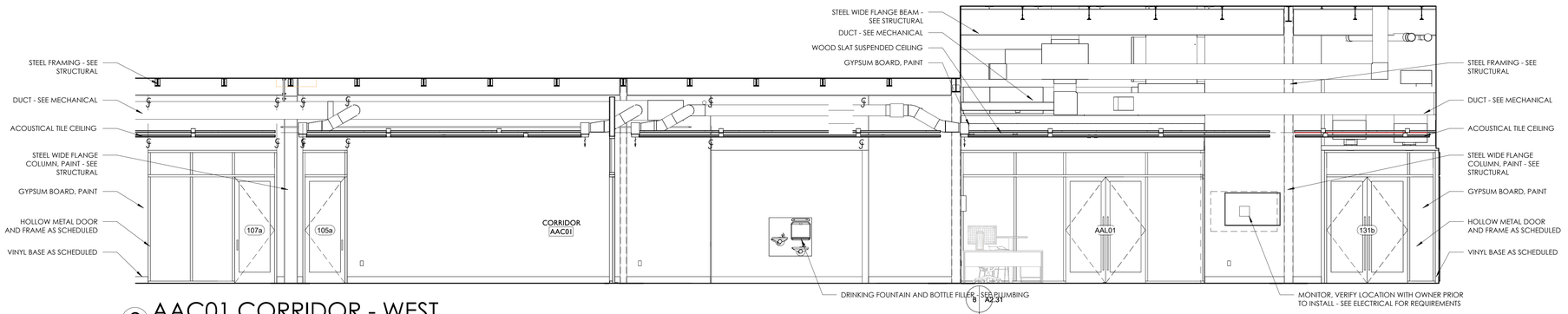
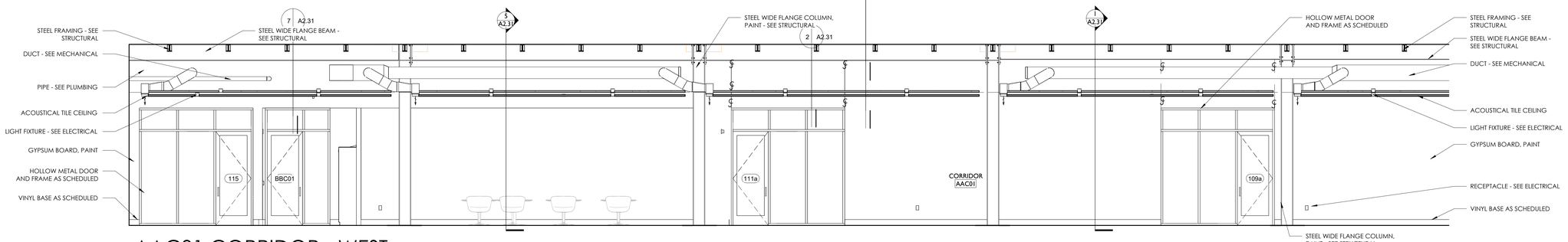


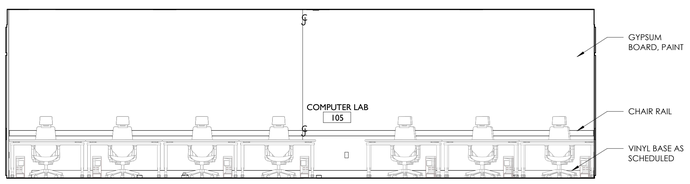
1 AAC01 CORRIDOR - WEST
1/8" = 1'-0"



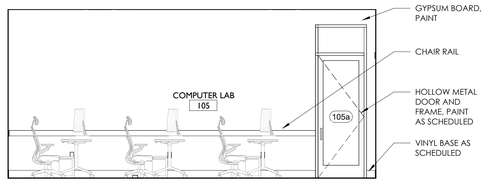
2 AAC01 CORRIDOR - WEST
1/4" = 1'-0"



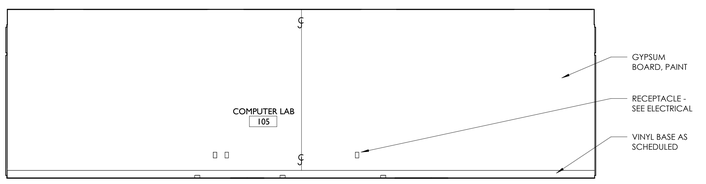
3 AAC01 CORRIDOR - WEST
1/4" = 1'-0"



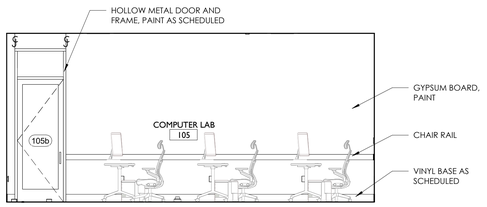
4 105 COMPUTER LAB - NORTH
1/4" = 1'-0"



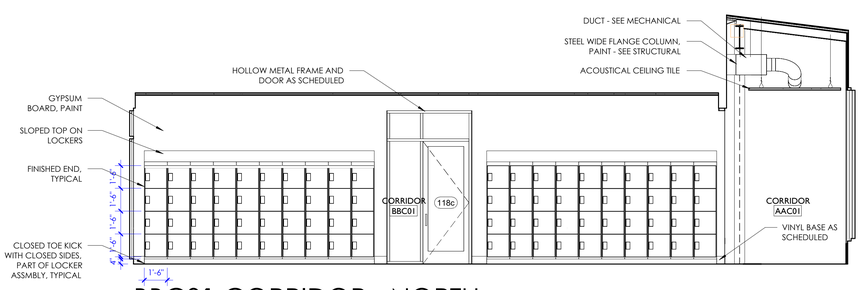
5 105 COMPUTER LAB - EAST
1/4" = 1'-0"



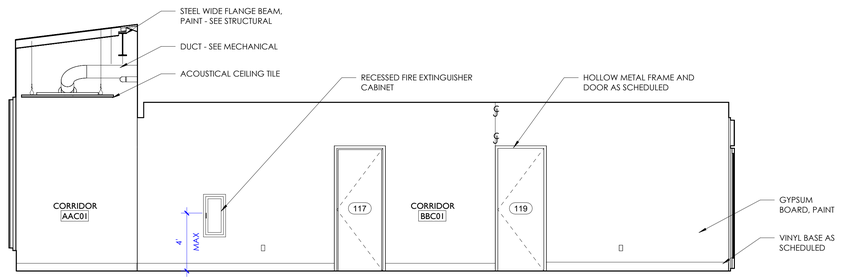
6 105 COMPUTER LAB - SOUTH
1/4" = 1'-0"



7 105 COMPUTER LAB - WEST
1/4" = 1'-0"



8 BBC01 CORRIDOR - NORTH
1/4" = 1'-0"



9 BBC01 CORRIDOR - SOUTH
1/4" = 1'-0"

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REGISTERED ARCHITECT — FENNELL PURIFOY — No. LL2 — ARKANSAS — 5.18.26

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INTERIOR ELEVATIONS
A7.31

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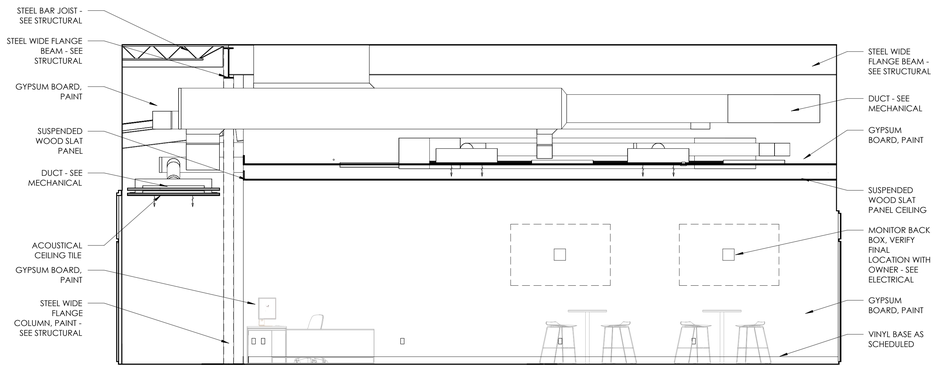
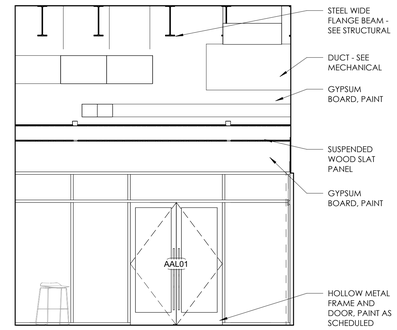
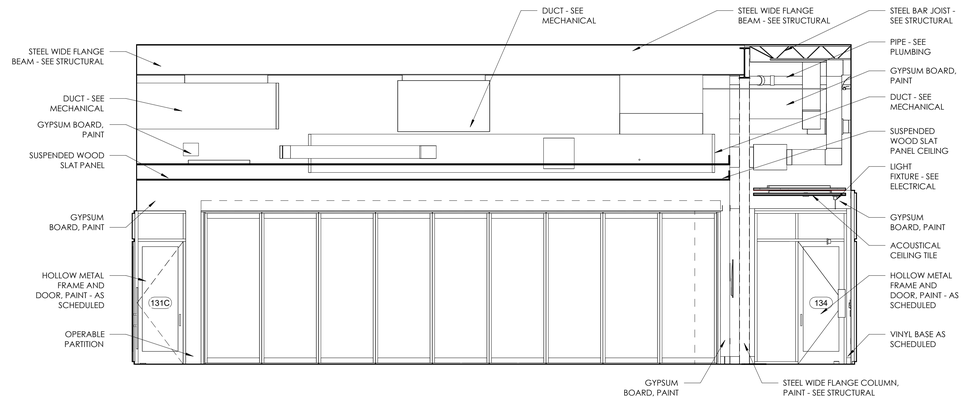


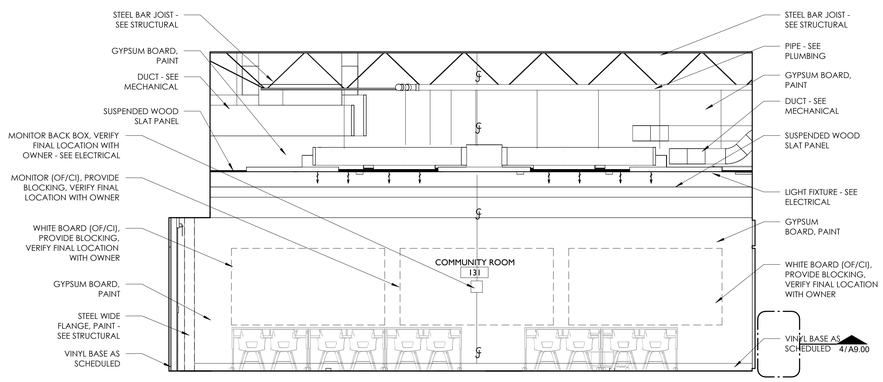
7 AAL01 LOBBY - SOUTH
1/4" = 1'-0"



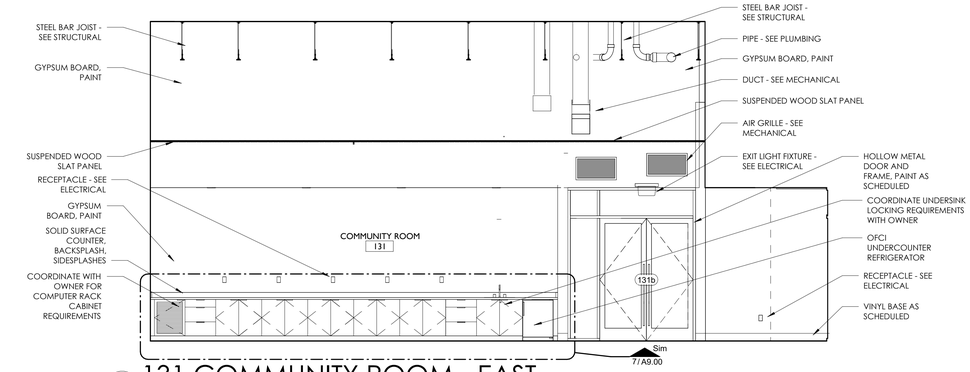
8 AAL01 LOBBY - WEST
1/4" = 1'-0"



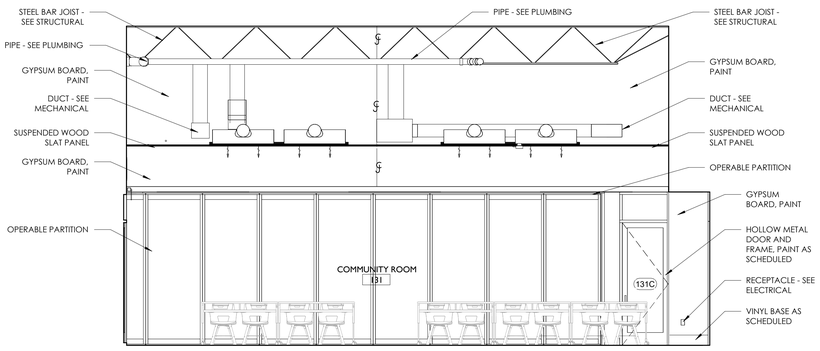
9 AAL01 LOBBY - NORTH
1/4" = 1'-0"



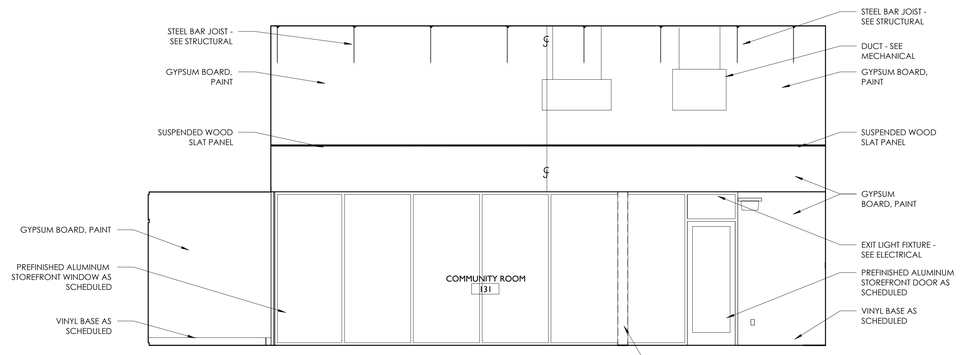
10 131 COMMUNITY ROOM - NORTH
1/4" = 1'-0"



11 131 COMMUNITY ROOM - EAST
1/4" = 1'-0"



12 131 COMMUNITY ROOM - SOUTH
1/4" = 1'-0"



13 131 COMMUNITY ROOM - WEST
1/4" = 1'-0"

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INTERIOR ELEVATIONS
A7.41

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

REGISTERED ARCHITECTS FENNELL PURIFOY No. 12-2 ARKANSAS
5.18.26

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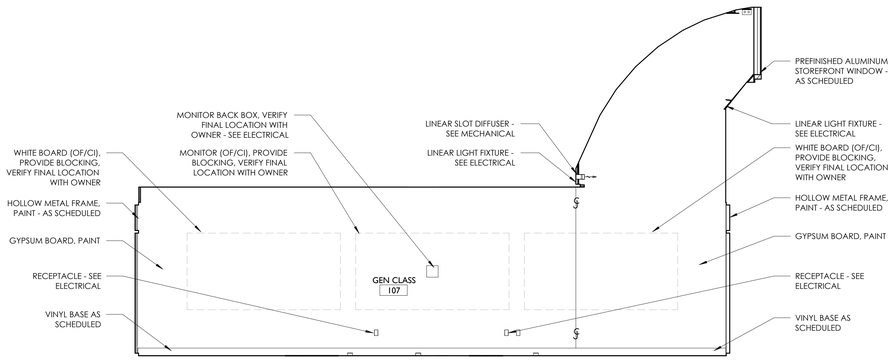
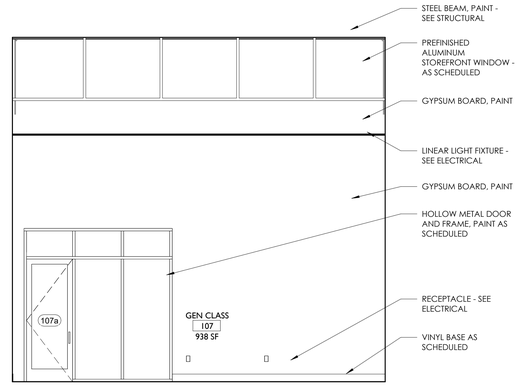
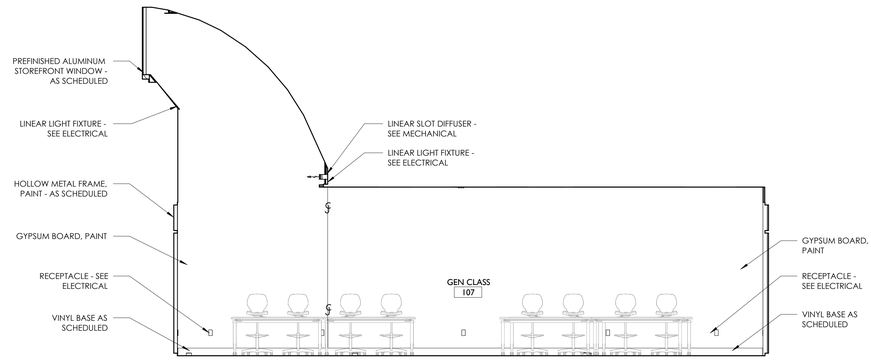


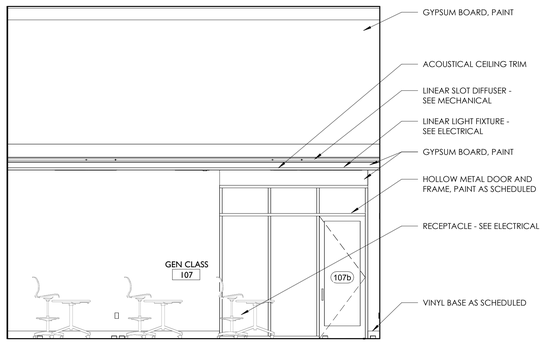
1 107 GEN CLASS - NORTH
1/4" = 1'-0"



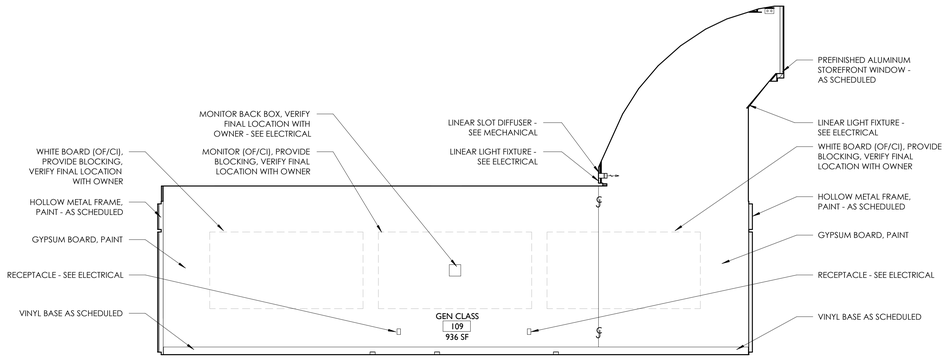
2 107 GEN CLASS - EAST
1/4" = 1'-0"



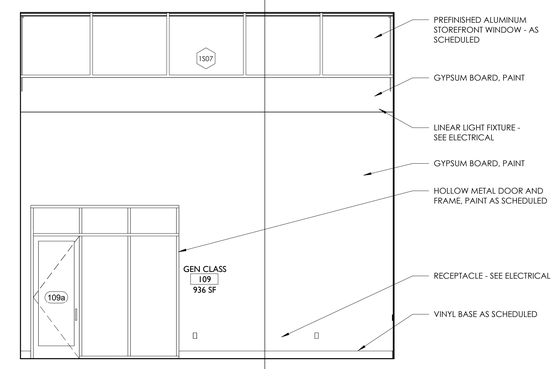
3 107 GEN CLASS - SOUTH
1/4" = 1'-0"



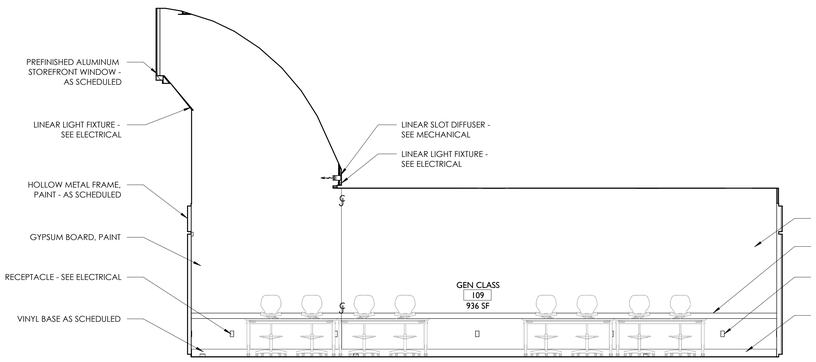
4 107 GEN CLASS - WEST
1/4" = 1'-0"



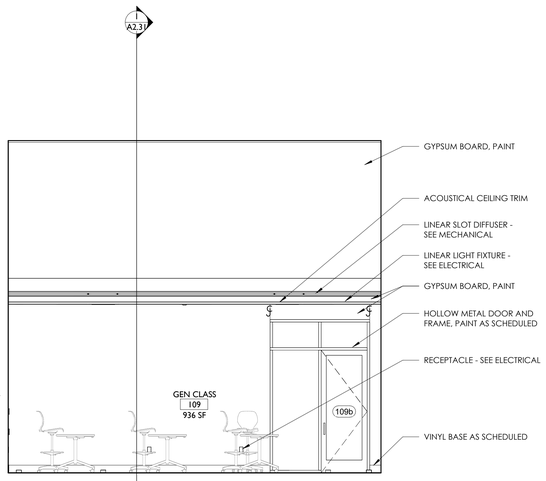
5 109 GEN CLASS - NORTH
1/4" = 1'-0"



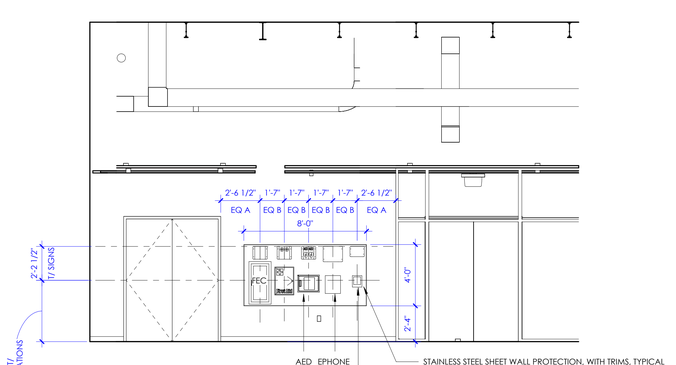
6 109 GEN CLASS - EAST
1/4" = 1'-0"



7 109 GEN CLASS - SOUTH
1/4" = 1'-0"



8 109 GEN CLASS - WEST
1/4" = 1'-0"



ALL CABINETS TO BE FULLY RECESSED.
PROVIDE SIGNAGE FOR ALL ITEMS SHOWN, CFCI.
TWO WAY 10" TALL SIGNAGE REQUIRED FOR FEC, FIRST AID, AND AED.
EPHONE & NARCAN SIGNS ARE ASU CUSTOM SIGNS TO BE CFCI.

9 ENTRY SAFETY STATION
1/4" = 1'-0"

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INTERIOR ELEVATIONS
A7.51

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

REGISTERED ARCHITECT FENNELL PURIFOY No. 11112 ARKANSAS
5.18.26

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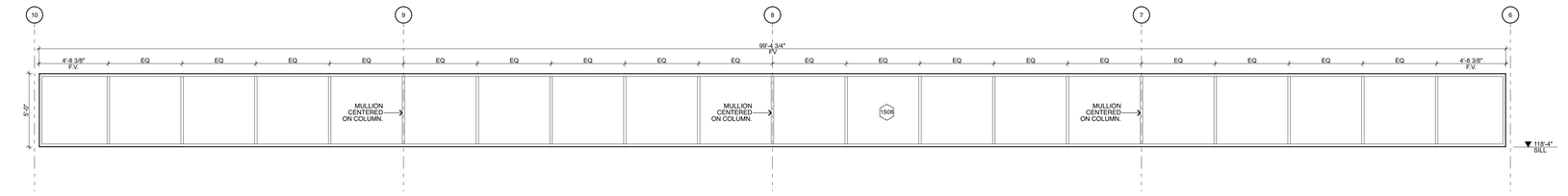
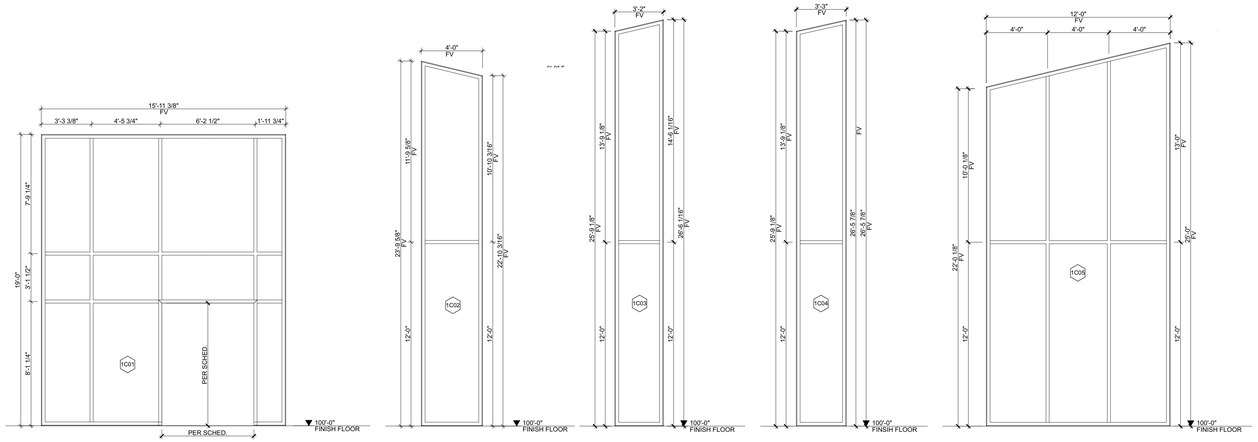
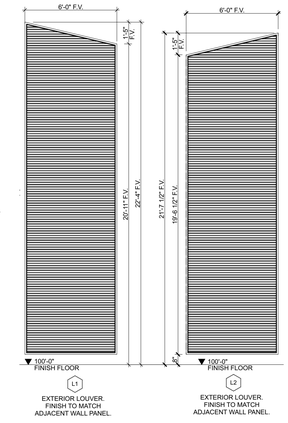
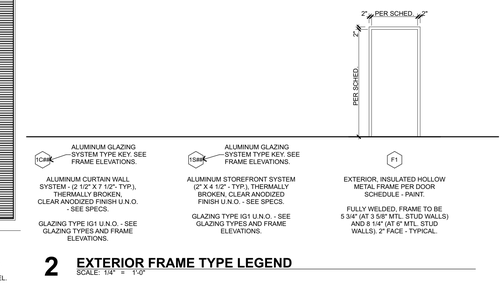


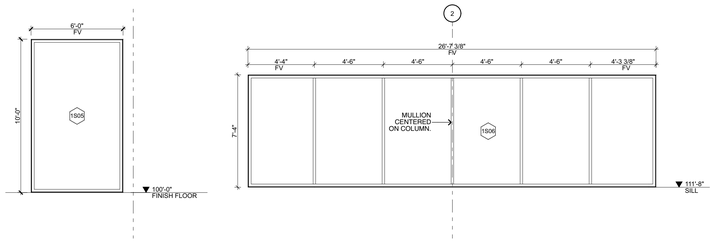


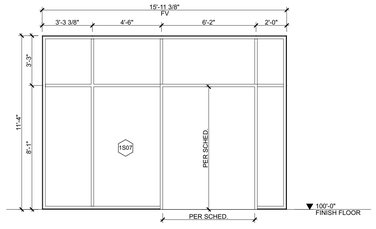


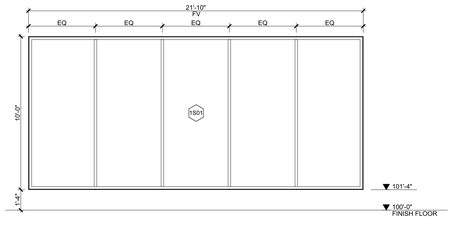


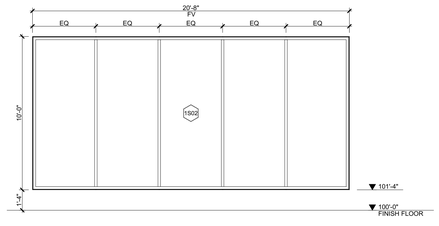
2 EXTERIOR FRAME TYPE LEGEND
SCALE: 1/4" = 1'-0"

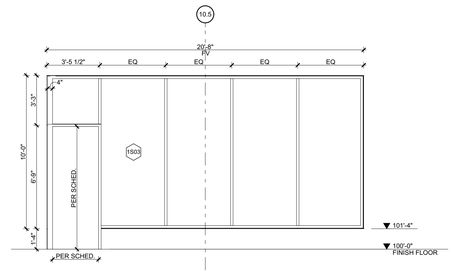
1 EXTERIOR DOOR TYPE LEGEND
SCALE: 1/4" = 1'-0"

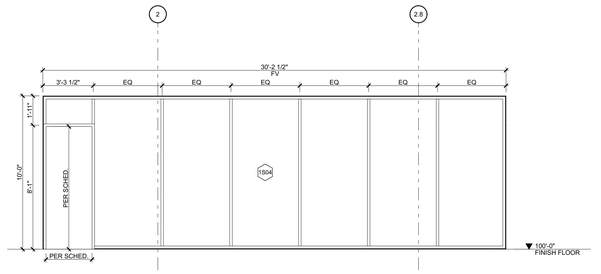












DOOR SCHEDULE

NUMBER		NAME	DOOR				FRAME				HARDWARE SET	FIRE RATING	REMARKS
			SIZE		MATL	TYPE	MATL	TYPE	DETAILS				
ROOM	MARK		WD	HGT					HEAD	JAMB	SILL				
114	A	FIRE RISER	3'-0"	7'-10"	HM	D3	HM	F1	-	5/A6.60	3/A6.40	03.03	Non-Rated	2; 3; 7
121	A	WELDING	3'-0"	8'-0"	HM	D3	HM	F1	3/A6.40	7/A6.60	3/A6.40	01.02	Non-Rated	2; 3; 5; 6; 7
121	B	WELDING	12'-0"	12'-0"	MTL	D4	MTL	--	2/A6.40	7/A6.60	2/A6.40	00.01	Non-Rated	4; 6
127	A	INDUSTRIAL MAINTENANCE	3'-0"	8'-0"	HM	D3	HM	F1	3/A6.40	2/A6.70	3/A6.40	03.04	Non-Rated	2; 3; 6; 7
127	B	INDUSTRIAL MAINTENANCE	12'-0"	12'-0"	MTL	D4	MTL	--	2/A6.40	7/A6.60	2/A6.40	00.01	Non-Rated	4; 6
131	A	WORKFORCE TRAINING	3'-0"	8'-0"	ALUM	D1	ALUM	1S04	-	1/A6.70	1/A6.00	03.02	Non-Rated	1; 3; 6
AAC01	A	CORRIDOR	3'-0"	8'-0"	ALUM	D1	ALUM	1S03	-	-	1/A6.00	03.01	Non-Rated	1; 3; 6
AAV01	A	VEST.	6'-0"	8'-0"	ALUM	D2	ALUM	1C01	1/A6.00	-	1/A6.00	01.01	Non-Rated	1; 4; 5; 6
AAV01	B	VEST.	6'-0"	8'-0"	ALUM	D2	ALUM	1S07	1/A6.00	-	1/A6.00	02.01	Non-Rated	1; 3; 4
EX	A	PREP & STORE	11'-8"	12'-5"	MTL	D5	MTL	--	1/A6.50	9/A10/A6.70	1/A6.50	00.01	Non-Rated	4; 6
EX	B	EXTERIOR PROJECT AREA	3'-8"	5'-10"	MTL	D6	MTL	--	6/A6.100	5/A6.100	6/A6.100	00.02	Non-Rated	3; 6

GENERAL NOTES: DIVISION 08 - OPENINGS

DOORS

1: LOCATE TRANSITION STRIPS (IF REQUIRED) CENTERED BENEATH DOOR LEAF.

2: PROVIDE PREFINISHED PAN/SILL AND DRIP EDGE FLASHING AT ALL EXTERIOR LOCATIONS PER MANUFACTURER'S RECOMMENDATIONS.

3: PROVIDE HEADERS AND LINTELS ABOVE ALL OPENINGS AS REQUIRED PER STRUCTURAL. SEE STRUCTURAL.

4: ALL DOORS SHALL BE 1 3/4" THICK, U.N.O.

5: VERIFY WALL DEPTH AND DETAILS PRIOR TO SELECTING HOLLOW METAL FRAMES.

6: ALL LITES IN DOOR LEAFS SHALL BE TEMPERED, U.N.O.

7: PRIME AND PAINT ALL HOLLOW METAL DOORS AND FRAMES TO MATCH PAINT COLOR ON WALL IN WHICH THEY OCCUR. ARCHITECT TO SELECT COLOR FROM FULL RANGE OF COLORS. FRAMES IN ACCENT WALLS SHALL MATCH ACCENT COLORS.

8: ALL ALUMINUM DOOR ARE STOREFRONT SYSTEM, UNLESS OTHERWISE NOTED. ALUMINUM STOREFRONT FRAMES SHALL BE 2"X4 1/2". EXTERIOR FRAMES AND DOORS SHALL BE THERMALLY BROKEN. SEE SPECIFICATION FOR MORE INFORMATION.

9: OUTSIDE EDGE OF DOOR FRAMES TO BE POSITIONED 4" FROM INSIDE CORNER OF ROOM UNLESS NOTED OTHERWISE.

10: HOLLOW METAL DOOR FRAMES SHALL HAVE A 2" FACE DIMENSION, U.N.O. PROVIDE 5 3/4" DEEP FRAMES FOR 3 5/8" METAL STUD WALLS AND 7 3/4" DEEP FRAMES FOR 6" METAL STUD WALLS, U.N.O. HOLLOW METAL FRAMES IN MASONRY WALLS SHALL RECEIVE 5 3/4" DEEP FRAMES, U.N.O.

11: REFERENCE DOOR AND FRAME ELEVATIONS, DOOR SCHEDULE, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING GLAZING TYPES AND DOOR AND FRAME SIZE, FINISH, MATERIAL, AND CONSTRUCTION.

12: *ALL HOLLOW METAL FRAMES SHALL HAVE A 2" FACE DIMENSION, U.N.O.*

13: PROVIDE GALVANIZED HOLLOW METAL DOORS AND/OR FRAMES AT WET LOCATIONS UNLESS NOTED OTHERWISE.

GLAZING FRAMING SYSTEMS

1: PROVIDE THRESHOLD WITH PRE-FINISHED PAN/SILL AND DRIP EDGE FLASHING WITH END DAMS AT ALL EXTERIOR LOCATIONS. VERIFY W/ MANUFACTURER'S RECOMMENDATIONS.

2: EXTERIOR GLAZING FRAMING SYSTEMS SHALL BE THERMALLY BROKEN. SEE SPECIFICATIONS FOR MORE INFORMATION.

3: ALUMINUM STOREFRONT FRAMES SHALL BE 2"X4 1/2" - U.N.O. EXTERIOR FRAMES SHALL BE THERMALLY BROKEN. SEE SPECIFICATIONS FOR MORE INFORMATION.

4: ALUMINUM CURTAINWALL FRAMES SHALL HAVE A 2 1/2" FACE DIMENSION - U.N.O. EXTERIOR FRAMES SHALL BE THERMALLY BROKEN. SEE FRAME ELEVATIONS AND SPECIFICATIONS FOR MORE INFORMATION.

5: INTEGRATED SUB-SILL TO BE PROVIDED BY STOREFRONT / CURTAINWALL MANUFACTURER - TYPICAL.

6: AT ALUMINUM GLAZING FRAMING, HEAD FLASHING SHALL MATCH COLOR AND FINISH OF ALUMINUM GLAZING SYSTEM AND SILL FLASHING SHALL MATCH COLOR OF WALL SURFACE BELOW U.N.O. FOR SILL FLASHING OVER MASONRY / STONE VENEER, SILL FLASHING SHALL MATCH COLOR AND FINISH OF ALUMINUM GLAZING SYSTEM U.N.O.

7: OVERALL DIMENSIONS ARE TO ROUGH OPENING U.N.O.

HARDWARE

1: COORDINATE HARDWARE REQUIREMENTS WITH SECURITY VENDOR TO PROVIDE FULLY FUNCTIONAL INTEGRATED SYSTEM.

GLAZING

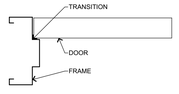
1: GLAZING TYPE TAGS APPEAR ON EXTERIOR OR OUTSIDE FACE OF FRAME - TYPICAL. IF TAG IS NOT APPARENT IN BUILDING SECTION OR ELEVATION, REFERENCE DRAWING OF OPPOSITE FACE FOR FRAME TAG. SEE FLOOR PLANS AND FRAME TYPES.

2: PROVIDE SAFETY GLAZING ADJACENT TO DOORS AND LOW LEVEL GLASS PANELS AS REQUIRED BY CODE SECTION 2406 (AND AS INDICATED BY GLAZING NOTES)

DOOR SCHEDULE KEYED REMARKS:

(NOTES APPLY TO DOOR SCHEDULE ONLY)

1. PART OF AN ALUMINUM STOREFRONT / CURTAIN WALL GLAZING SYSTEM - SEE ELEVATIONS.
2. INSULATED FRAME AND DOOR. INSULATE FRAME IN PLACE.
3. PROVIDE DOOR SIGNAGE PER. DRAWINGS & SPECIFICATIONS.
4. PROVIDE ELECTRIC OPERATOR PER SPECIFICATIONS - RE: ELECTRICAL FOR POWER.
5. PROVIDE ACCESS CONTROL PER DRAWINGS & SPECIFICATIONS.
6. PROVIDE DOOR POSITION SWITCH PER DRAWINGS & SPECIFICATIONS.
7. PAINT HOLLOW METAL FRAME (AND DOOR IF APPLICABLE) TO MATCH FINISH OF ADJACENT WALL, U.N.O. WHERE THE FRAME'S EXTERIOR AND INTERIOR FINISHES ARE NOT IDENTICAL, TRANSITION THE FINISH AT INSIDE CORNER OF DOOR STOP AS SHOWN BELOW:



GLAZING TYPES:

ALL EXTERIOR GLASS TO BE IG1, U.N.O.
ALL INTERIOR GLASS TO BE G1, U.N.O.
ALL GLAZING SHALL BE TEMPERED SAFETY GLAZING.

EXTERIOR:
IG1: 1" CLEAR INSULATED HIGH PERFORMANCE GLASS

INTERIOR:
G1: 3/8" CLEAR SAFETY GLASS

GLAZING FRAME KEY:

1C#4 — 2 1/2" X 7 1/2" - ALUMINUM CURTAIN WALL SYSTEM - PREFINISHED, EXTERIOR, THERMALLY BROKEN, CAPTURED, REINFORCED AS REQUIRED. FINISH: CLEAR ANODIZED.

1S#4 — 2" X 4 1/2" - ALUMINUM STOREFRONT SYSTEM - PREFINISHED, INTERIOR, THERMALLY BROKEN. FINISH: CLEAR ANODIZED.

NOTATION LEGEND:

(NOTES APPLY TO DOOR SCHEDULE, DOOR TYPES, AND FRAME TYPES)

ALUM	ALUMINUM
HM	HOLLOW METAL
MTL	METAL
PF	PRE-FINISHED (MANUFACTURE) SURFACE
PT	PAINTED SURFACE (IN FIELD)
STL	STEEL
T	TEMPERED SAFETY GLASS
WD	WOOD

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Andrew Harold Wells - Architect AR #4256
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REVISIONS:

100 % CONSTRUCTION DOCUMENTS
05-18-2026

EXTERIOR DOOR SCHEDULES & TYPES
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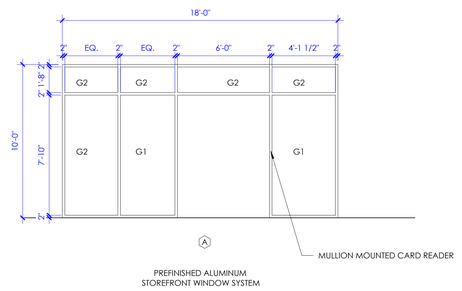
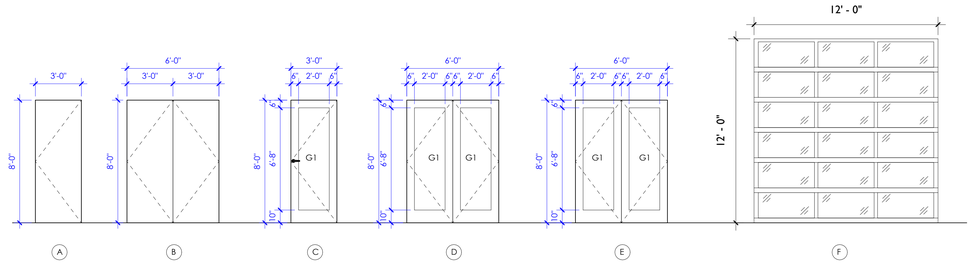


PREFINISHED ALUMINUM STOREFRONT WINDOW SYSTEM

INTERIOR STOREFRONT TYPES

1/4" = 1'-0"



INTERIOR HOLLOW METAL DOOR, PAINT

INTERIOR HOLLOW METAL DOUBLE DOOR, PAINT

INTERIOR HOLLOW METAL DOUBLE DOOR WITH FULL WINDOW LITE, PAINT

INTERIOR HOLLOW METAL DOUBLE DOOR WITH FULL WINDOW LITE, PAINT

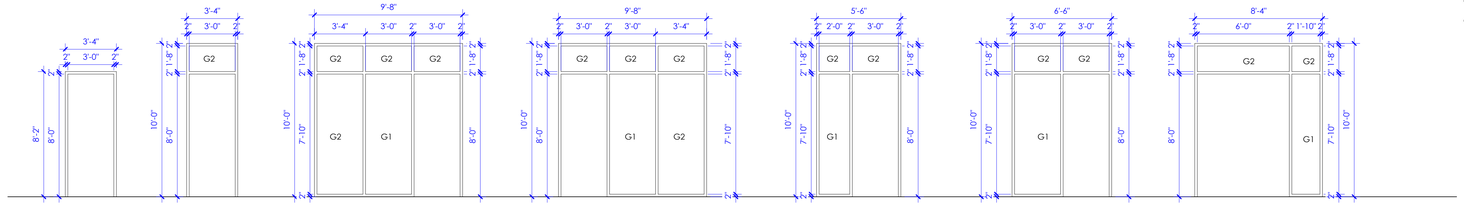
INTERIOR PREFINISHED ALUMINUM STOREFRONT DOOR

INTERIOR PREFINISHED OVERHEAD DOOR

DOOR TYPES

1/4" = 1'-0"

changes



INTERIOR HOLLOW METAL FRAME, PAINT

INTERIOR HOLLOW METAL FRAME, PAINT

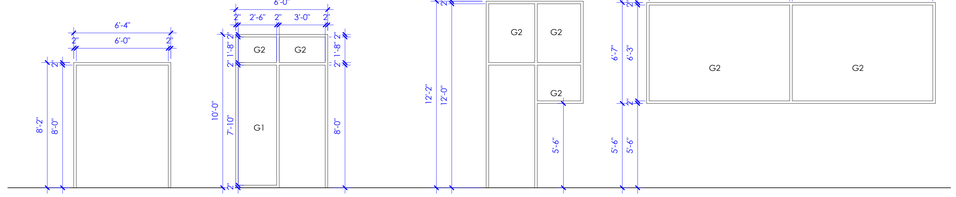
INTERIOR HOLLOW METAL FRAME, PAINT

INTERIOR HOLLOW METAL FRAME, PAINT

INTERIOR HOLLOW METAL FRAME, PAINT

INTERIOR HOLLOW METAL FRAME, PAINT

INTERIOR HOLLOW METAL FRAME, PAINT



INTERIOR HOLLOW METAL FRAME, PAINT

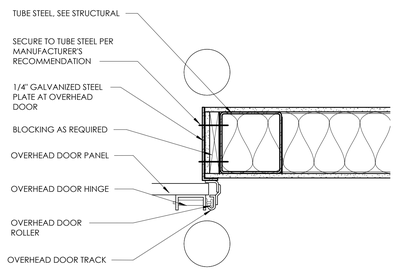
INTERIOR HOLLOW METAL FRAME, PAINT

INTERIOR HOLLOW METAL FRAME, PAINT

INTERIOR HOLLOW METAL WINDOW FRAME, PAINT

HOLLOW METAL FRAME TYPES

1/4" = 1'-0"



5 OVERHEAD DOOR JAMB (HEAD SIM)

1 1/2" = 1'-0"

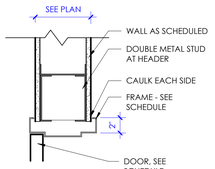
DOOR SCHEDULE								
MARK	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	FRAME TYPE	FRAME MATERIAL	DOOR MATERIAL	FIRE RATING	COMMENTS
101	A	3' - 0"	8' - 0"	1	HM	HM	-	
102	P	3' - 0"	7' - 0"	1	HM	HM		
103	A	3' - 0"	8' - 0"	1	HM	HM	-	
105a	C	3' - 0"	8' - 0"	2	HM	HM	-	
105b	C	3' - 0"	8' - 0"	2	HM	HM	-	
107a	C	3' - 0"	8' - 0"	3	HM	HM	-	
107b	C	3' - 0"	8' - 0"	4	HM	HM	-	
109a	C	3' - 0"	8' - 0"	3	HM	HM	-	
109b	C	3' - 0"	8' - 0"	6	HM	HM	-	
111a	C	3' - 0"	8' - 0"	4	HM	HM	-	
111b	C	3' - 0"	8' - 0"	4	HM	HM	-	
115	C	3' - 0"	8' - 0"	3	HM	HM	-	
117	A	3' - 0"	8' - 0"	1	HM	HM	-	
118a	C	3' - 0"	8' - 0"	2	HM	HM	-	
118b	C	3' - 0"	8' - 0"	5	HM	HM	-	
118c	C	3' - 0"	8' - 0"	5	HM	HM	-	
119	A	3' - 0"	8' - 0"	1	HM	HM	-	PANIC HARDWARE
121C	A	3' - 0"	8' - 0"	1	HM	HM	-	
121D	A	3' - 0"	8' - 0"	1	HM	HM	-	
127C	C	3' - 0"	8' - 0"	11	HM	HM	-	
127D								
131b	D	6' - 1"	8' - 0"	7	HM	HM	-	
131C	C	3' - 0"	8' - 0"	9	HM	HM	-	
132	B	6' - 0"	8' - 0"	8	HM	HM	-	
134	C	3' - 0"	8' - 0"	10	HM	HM	-	
AAC01	B	6' - 0"	8' - 0"	8	HM	HM	-	
AAL01	E	6' - 0"	8' - 0"	SF -A	SF	SF	-	
BBC01	C	3' - 0"	8' - 0"	5	HM	HM	-	

SF: STOREFRONT
HM: HOLLOW METAL

GLAZING TYPES

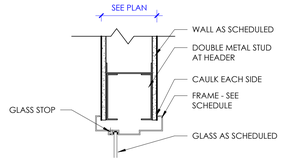
G1 3/8" TEMPERED GLASS

G2 3/8" CLEAR GLASS



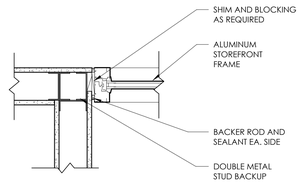
1 INTERIOR HM JAMB (HEAD SIM.)

1 1/2" = 1'-0"



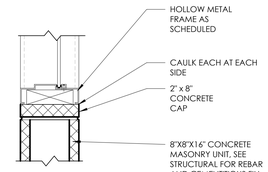
3 INTERIOR HM WINDOW JAMB

1 1/2" = 1'-0"



2 INTERIOR STOREFRONT JAMB (HEAD SIM)

1 1/2" = 1'-0"



4 HM AT CMU

1 1/2" = 1'-0"

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REGISTERED ARCHITECT FENNELL PURIFOY No. 11412 ARKANSAS 5.18.26

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INTERIOR DOOR SCHEDULE & TYPES

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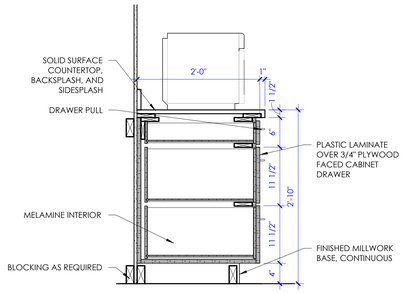
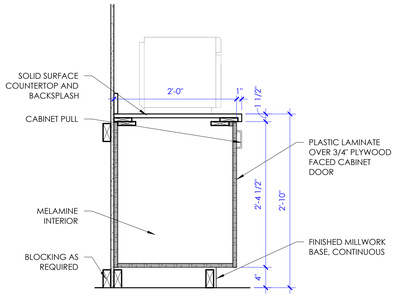
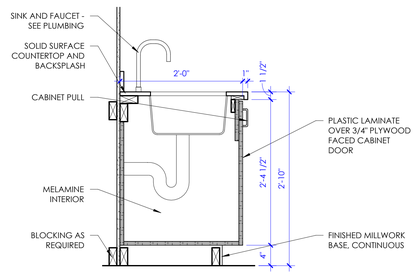


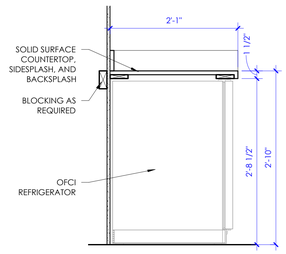
1 MILLWORK DETAIL
1" = 1'-0"



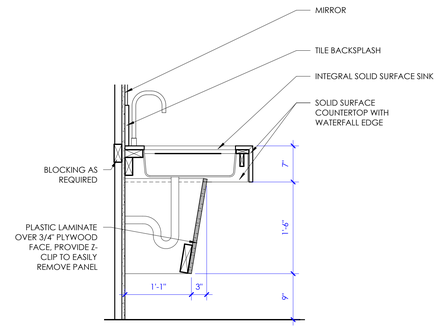
2 MILLWORK DETAIL
1" = 1'-0"



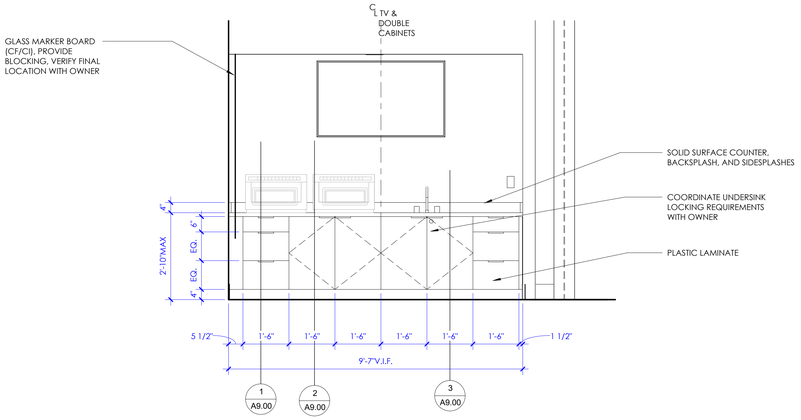
3 MILLWORK DETAIL
1" = 1'-0"



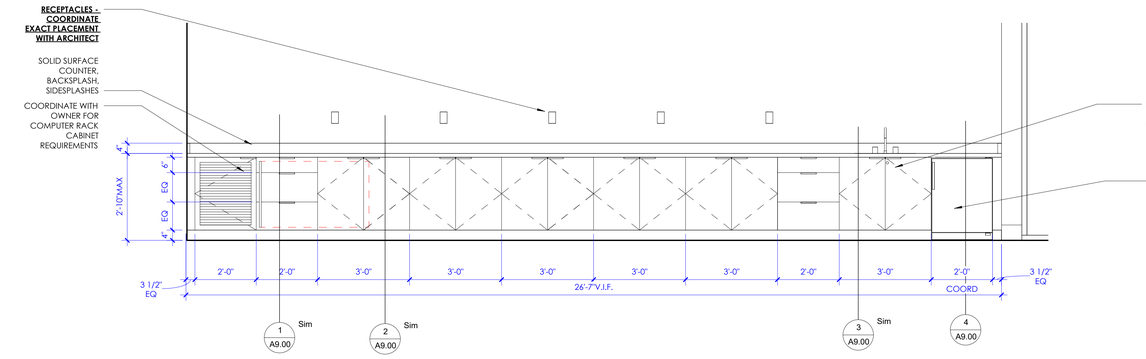
4 MILLWORK DETAIL
1" = 1'-0"



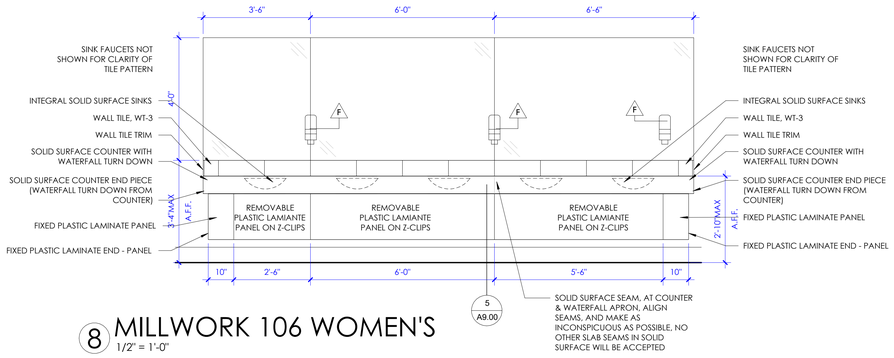
5 MILLWORK DETAIL
1" = 1'-0"



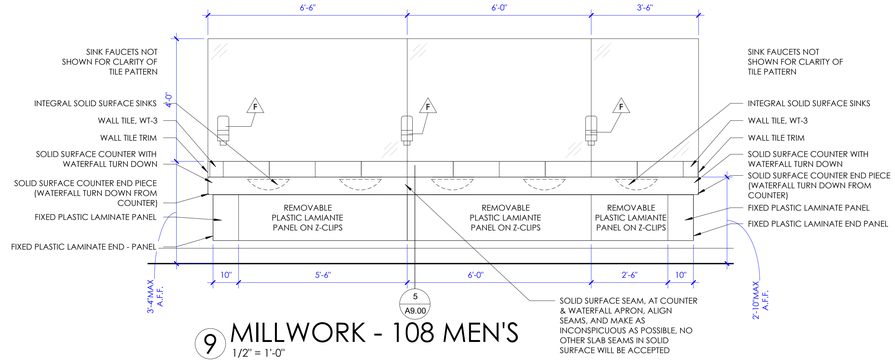
6 MILLWORK - 116 STUDENT SPACE
1/2" = 1'-0"



7 MILLWORK - 131 COMMUNITY ROOM
1/2" = 1'-0"



8 MILLWORK 106 WOMEN'S
1/2" = 1'-0"



9 MILLWORK - 108 MEN'S
1/2" = 1'-0"

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MILLWORK DETAILS
A9.00

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

REGISTERED ARCHITECT FENNELL PURIFOY No. 11512 ARKANSAS 5.18.26

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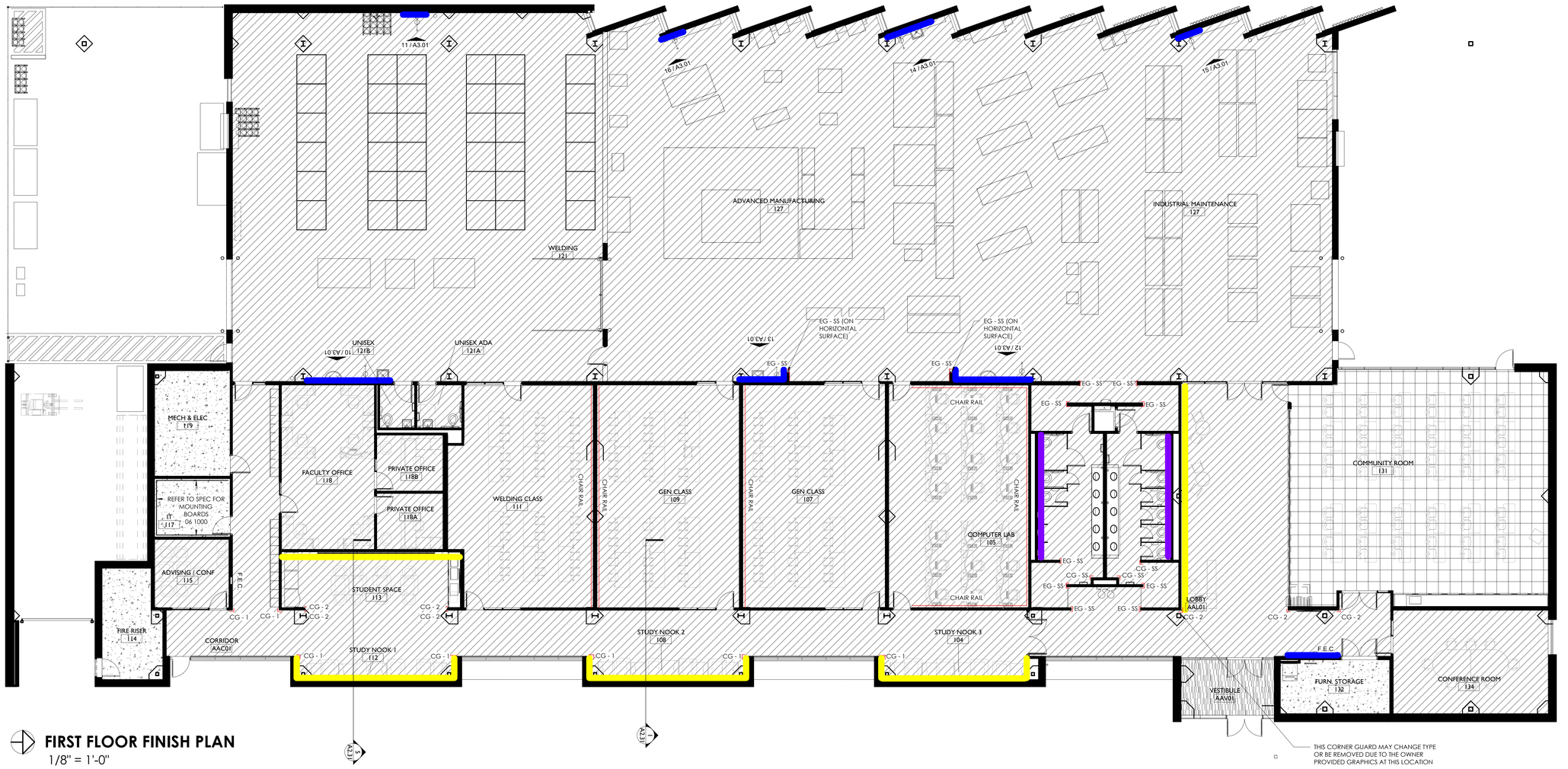
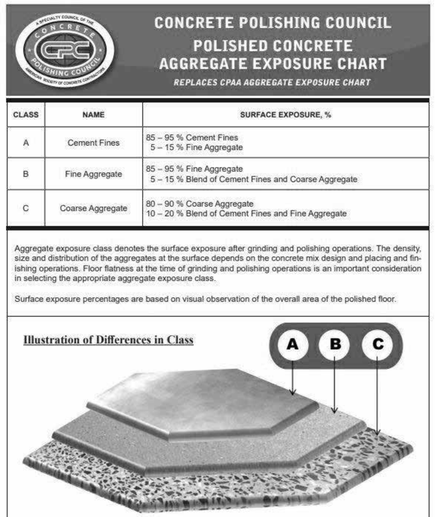


FIRST FLOOR FINISH PLAN

1/8" = 1'-0"



FINISH PLAN KEY: FLOOR, BASE , & WALL

FLOORING: CARPET TILE FLOORING
WALL BASE: RUBBER WALL BASE
WALLS: U.N.O., GYPSUM BOARD - PAINT
CEILING: REFER TO RCP

FLOORING: SEALED CONCRETE
WALL BASE: RUBBER WALL BASE
WALLS: U.N.O., GYPSUM BOARD - PAINT
CEILING: REFER TO RCP

FLOORING: PORCELAIN TILE
WALL BASE: PORCELAIN COVE TILE
WALLS: PORCELAIN TILE & GYPSUM WALL BOARD, SEE ELEVATIONS
CEILING: REFER TO RCP

FLOORING: WALKOFF CARPET
WALL BASE: RUBBER WALL BASE
WALLS: U.N.O., GYPSUM BOARD - PAINT
CEILING: REFER TO RCP

FLOORING:CLASS B POLISHED CONCRETE
WALL BASE: RUBBER WALL BASE
WALLS: U.N.O., GYPSUM BOARD - PAINT
CEILING: REFER TO RCP

STAINLESS STEEL SHEET, SEE ELEVATIONS

LEVEL 5 FINISH, SEE ELEVATIONS

FULL HEIGHT WALL TILE

FINISH PLAN GENERAL NOTES

1. WHERE FLOOR FINISHES TRANSITION FROM ONE FLOORING TO ANOTHER, TRANSITION SHALL OCCUR AT CENTERLINE OF DOOR, TYPICAL, UNLESS NOTED OTHERWISE.

2. WHEN TRANSITIONING FROM ONE CLASS OF POLISHED CONCRETE TO ANOTHER, TAKE CARE TO HAVE A SMOOTH, EVEN TRANSITION OF ONE CONCRETE SURFACE TO THE OTHER CONCRETE SURFACE, AT THE CENTERLINE OF DOORS. METAL THRESHOLDS AND METAL TRANSITIONS SHALL NOT BE ACCEPTED. THE TRANSITION SHALL BE BARE CONCRETE. WHERE TRANSITIONS FROM ONE CLASS TO ANOTHER ARE GREAT (EXAMPLE CLASS A TRANSITIONING TO CLASS C) SPECIAL CARE MAY SHOULD BE TAKEN TO FEATHER THE EDGE OF CONCRETE TO AVOID THE USE OF METAL TRANSITION STRIPS.

3. FLOORING SYMBOLS ARE INTENDED TO IDENTIFY FLOORING TYPE LOCATIONS AND DO NOT REPRESENT INSTALLATION PATTERNS.

4. VINYL WALL BASE IS TYPICAL THROUGHOUT ON ALL INTERIOR WALLS UNLESS NOTES OTHERWISE. AREAS **NOT** TO RECEIVE VINYL WALL BASE ARE: TILED BATHROOM WALL (THE REST OF THE BATHROOM IS TO RECEIVE BASE), TOE KICKS AT MILLWORK & LOCKERS (WHICH ARE TO BE FINISHED QUALITY TOES)

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

REGISTERED ARCHITECT — FENNELL PURIFOY — No. 12-2 — ARKANSAS — 5.18.26

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FINISH PLAN & SCHEDULE
A10.01

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POWER AND LIGHTING LEGEND

ABBREVIATION OR SYMBOL	DESCRIPTION
FIXTURE DESIGNATION	
L	2x4 LAY-IN OR SURFACE MOUNTED FIXTURE
	2x4 LAY-IN OR SURFACE MOUNTED FIXTURE; SHADING INDICATES EMERGENCY POWERED BATTERY
	2x2 LAY-IN OR SURFACE MOUNTED FIXTURE
	2x2 LAY-IN OR SURFACE MOUNTED FIXTURE; SHADING INDICATES EMERGENCY POWERED BATTERY
	SURFACE OR STRIP FIXTURE
	RECESSED STRIP FIXTURE; SHADING INDICATES EMERGENCY POWERED BATTERY
	RECESSED DOWNLIGHT
	RECESSED DOWNLIGHT; SHADING INDICATES EMERGENCY POWERED BATTERY
	WALL-MOUNTED LINEAR FIXTURE
	DOWNLIGHT FIXTURE
	DOWNLIGHT FIXTURE. SHADING INDICATES EMERGENCY POWERED BATTERY
	WALL-MOUNTED FIXTURE
	EXIT SIGN; LED TYPE. DARKENED AREA INDICATES FACE. ARROWS INDICATE DIRECTION OF EGRESS
	RECESSED ELECTRICAL PANEL WITH REQUIRED CLEARANCE
	SURFACE MOUNTED ELECTRICAL PANEL WITH REQUIRED CLEARANCE
	COMBINATION STARTER DISCONNECT SWITCH
	NON FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	MOTOR STARTER
M	ELECTRIC MOTOR, HORSEPOWER AS SHOWN.
J	JUNCTION BOX
J XYZ	SPECIALTY JUNCTION BOX WITH DESIGNATION "XYZ". REFER TO JBOX ABBREVIATION LEGEND.

POWER -- J-BOX ABBREVIATION SCHEDULE

AC	AIR COMPRESSOR
AD	AIR DRYER
CR	CORD REEL
DA	DOOR ACTUATOR
DH	MAGNETIC DOOR HOLDS
DO	DOOR OPENER BUTTON
ET	EMERGENCY TOWER
NS	NETWORK SWITCH
OD	OVERHEAD DOOR
RS	ROLLER SHADE
TL	TEACHING LOCATION
WCR	WALL MOUNTED CORD REEL

DATA DEVICES

A B	TELEPHONE OUTLET; ABOVE COUNTER, & FIREMAN'S
A C	DATA OUTLET; ABOVE COUNTER & CEILING MOUNTED
A	COMBINATION DATA/TELEPHONE OUTLET & COMBINATION DATA/TELEPHONE OUTLET ABOVE COUNTER
TV/64"	TELEVISION OUTLET WITH HEIGHT A.F.F. DESIGNATION

ABBREVIATION OR SYMBOL	DESCRIPTION

FLOOR BOXES

FLOOR/WALL BOX WITH DESIGNATION "XYZ". REFER TO FLOOR/WALL BOX ABBREVIATION SCHEDULE.

XYZ

(1) (2) (4) (3)
(1) DUPLEX RECEPTACLE
(2) GFI DUPLEX RECEPTACLE
(3) QUADRUPLEX RECEPTACLE
(4) GFI QUADRUPLEX RECEPTACLE

(6) (7) (9) (8)
(6) TELEPHONE OUTLET
(7) DATA OUTLET
(8) COMBO TELE/DATA OUTLET
(9) AUDIO VISUAL

POWER -- FLOOR/WALL BOX ABBREVIATION SCHEDULE

FB1	LEGRAND #RFB4 FLOOR BOX WITH FLOORPORT SERIES FLANGED COVER ASSEMBLY. PROVIDE WITH RECEPTALCES AND/OR DATA JACKS AS SHOWN ON PLANS. COORDINATE WITH ARCHITECT FOR FINAL LOCATION AND FINISH.

DUPLEX / QUADRUPLEX

	STANDARD
	ABOVE COUNTER
	GFCI
	GFCI ABOVE COUNTER
	WEATHER PROOF
	CEILING MOUNT

ABC — MULTI POLE RECEPTACLE. REFER TO RECEPTACLE ABBREVIATION LEGEND FOR DETAILS.

XYZ — SIMPLEX RECEPTACLE. REFER TO RECEPTACLE ABBREVIATION LEGEND FOR DETAILS.

SPECIALTY RECEPTACLES WITH DESIGNATION "XYZ", "ABC", etc. REFER TO RECEPTACLE ABBREVIATION LEGEND BELOW.

POWER -- RECEPTACLE ABBREVIATION LEGEND

USB	DUPLEX RECEPTACLE WITH INTEGRAL USB PORTS
ICE	ICE MACHINE
RP	RECIRC PUMP
WH1	SPEX WATER HEATER - L5-30R
WH	WATER HEATER - GFI DUPLEX RECEPTACLE

ROOM CONTROLLERS / POWER PACKS

P XX	SPECIALTY POWER PACK WITH DESIGNATION "XX", REFER TO ABBREVIATION LEGEND BELOW.
R XX	SPECIALTY ROOM CONTROLLER WITH DESIGNATION "XX", REFER TO ABBREVIATION LEGEND BELOW.

LIGHTING -- ROOM CONTROLLER ABBREVIATION SCHEDULE

ABBREVIATION OR SYMBOL	DESCRIPTION

SWITCHES

S	SINGLE POLE LIGHT SWITCH
S_M	PADLOCKABLE HP RATED SWITCH
S_X	SPECIALTY SWITCH. FOR "X" DESIGNATION, SEE LIGHTING SWITCH ABBREVIATION SCHEDULE BELOW.

LIGHTING -- SWITCH ABBREVIATION SCHEDULE

A	LUTRON PJ2-2B-GWH-L01: PICO DIGITAL WALL SWITCH
F	LUTRON PJ2-3BRL-GWH-L01: PICO DIMMING DIGITAL WALL SWITCH

ELECTRICAL GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL COMPLY WITH ALL LOCAL CODES, AUTHORITIES HAVING JURISDICTION, DRAWINGS AND SPECIFICATIONS. IF DISCREPANCIES ARE FOUND - THE MOST STRINGENT REQUIREMENT SHALL GOVERN WORK.
2. REFER TO SPECIFICATIONS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. REFER TO ALL PROJECT DRAWINGS FOR DETAILS OF CONSTRUCTION AND INSTALLATION REQUIREMENTS.
4. PRIOR TO BID, CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE REQUIREMENTS OF THESE NOTES AS WELL AS OTHER NOTES SHOWN ON THE CONTRACT DOCUMENTS.
5. THESE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIED REFERENCE PRODUCTS. THE SELECTION OF WHICH HAS INFLUENCED THE DESIGNS OF OTHER TRADES. IF SUBSTITUTE MANUFACTURERS, SIZES, OR MODEL NUMBERS ARE BID OR SUBMITTED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL DIFFERENCES PRIOR TO BID. ALL COSTS OF ALL TRADES ASSOCIATED WITH THE SUBSTITUTION SHALL BE INCLUDED IN THE BID.
6. REFER TO ELECTRICAL SCHEDULES AND SPECIFICATIONS FOR BASIS OF DESIGN, ACCEPTABLE MANUFACTURERS, AND MODELS OF ELECTRICAL FIXTURES AND EQUIPMENT.
7. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, DEVICE, OPTION, FITTING, OR COMPONENT. CONTRACTOR SHALL NOT SCALE DRAWINGS. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY THE CONTRACT DOCUMENTS.
8. COORDINATION OF ALL MODIFICATIONS TO EACH DISCIPLINE WHICH RESULT FROM SUBSTITUTION OF EQUIPMENT OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SUBSTITUTIONS WHICH ARE INSTALLED AND SUBSEQUENTLY ARE PROVEN UNSATISFACTORY BY OWNER AND/OR ENGINEER WITHIN THE WARRANTY PERIOD, SHALL BE REMOVED COMPLETELY BY THE CONTRACTOR AND REPLACED WITH THE ORIGINAL DESIGN OR CORRECTED AS DIRECTED BY THE ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.
10. ALL ELECTRICAL CONDUIT SHALL BE ½ OR GREATER.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF OTHER TRADES. REFER TO ALL CONSTRUCTION DOCUMENTS FOR COMPLETE INFORMATION PRIOR TO BID.
12. NO ELECTRICAL SYSTEMS SHALL BE SUSPENDED, HUNG, OR SUPPORTED FROM DUCTWORK OR PIPING.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING AND SEALING OF ALL ROOF PENETRATIONS AIR AND WATER TIGHT.
14. CLOSELY COORDINATE FINAL LOCATIONS OF INSTALLED EQUIPMENT TO ACHIEVE THE GREATEST ACCESSIBILITY FOR MAINTENANCE.
15. CONTRACTOR SHALL VISIT THE SITE TO ESTABLISH THE EXISTING CONDITIONS PRIOR TO CONDUIT OR ELECTRICAL EQUIPMENT FABRICATION. SYSTEMS SHALL BE ERECTED USING FIELD MEASUREMENTS FOR COORDINATION WITH THE EXISTING EQUIPMENT, STRUCTURE, FIRE PROTECTION AND ELECTRICAL.
16. ALL EQUIPMENT, DEVICES, AND FIXTURES SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION.
17. EXPOSED CONDUIT AND MC CABLE SHALL BE FURNISHED SUITABLE FOR PAINTING, AND SHALL BE PAINTED AS REQUIRED BY ARCHITECTURAL SPECIFICATIONS.
18. PROVIDE ALL FITTINGS, COUPLINGS, AND OTHER ACCESSORIES NEEDED TO COMPLETE CONNECTIONS AND PROVIDE FOR PROPER OPERATION OF ELECTRICAL FIXTURES AND ELECTRICAL EQUIPMENT.
19. REFER TO ELECTRICAL SPECIFICATIONS FOR CONDUIT MATERIALS AND INSTALLATION REQUIREMENTS.
20. FIRE STOP ALL CONDUIT PENETRATIONS THROUGH RATED WALLS. REFER TO SPECIFICATIONS.
21. REFER TO ARCHITECTURAL PLANS FOR CEILING GRILL AND LIGHT FIXTURE LOCATIONS, FOR CEILING TYPE, AND FOR MOUNTING REQUIREMENTS. CONTRACTOR SHALL PROVIDE AND INSTALL ALL LIGHTS WITH MOUNTING DESIGNED FOR MOUNTING SURFACE TYPE.
22. PROVIDE CONCRETE PADS FOR ALL GROUND MOUNTED EQUIPMENT.
23. REPLACE ALL ARCHITECTURAL FEATURES REMOVED OR DAMAGED DURING THE COURSE OF THE WORK.
24. CONTRACTOR SHALL PATCH ALL WALLS, FLOORS, AND CEILINGS TO MATCH NEW/EXISTING FOR OPENINGS CREATED BY INSTALLATION OF EQUIPMENT AND ELECTRICAL SERVICE PENETRATIONS.
25. ALL HVAC WITH ELECTRICAL REQUIREMENTS SHALL BE INSTALLED WITH ELECTRICAL INFRASTRUCTURE NECESSARY TO PROVIDE A FULLY FUNCTIONING SYSTEM. IF NOT SPECIFICALLY SHOWN ON ELECTRICAL SCHEDULE, HVAC FIXTURES REQUIRING ELECTRICAL SERVICE SHALL BE FED FROM BREAKER OF ADEQUATE CAPACITY.
26. REFER TO STRUCTURAL ENGINEERING CONTRACT FOR PROJECT SEISMIC DESIGN CRITERIA. PROVIDE VIBRATION ISOLATION AND SEISMIC RESTRAINT FOR EQUIPMENT AND CONDUIT AS REQUIRED.

ABBREVIATION OR SYMBOL	DESCRIPTION

SENSORS

XX	SPECIALTY CEILING MOUNT SENSOR WITH DESIGNATION "XX", REFER TO ABBREVIATION LEGEND BELOW.
XX	SPECIALTY CORNER MOUNT SENSOR WITH DESIGNATION "XX", REFER TO ABBREVIATION LEGEND BELOW.

LIGHTING -- SENSOR ABBREVIATION SCHEDULE

CM	LUTRON LRF2-OCR2B-P-WH : DIGITAL PIR CEILING MOUNT OCCUPANCY SENSOR

COMMUNICATIONS DEVICES

I	INTERCOM STATION
I_M	MASTER INTERCOM STATION
C	CLOCK
C_D	CLOCK, DUAL SIDED
C_{WG}	CLOCK, WITH WIREGUARD
H	HORN SPEAKER
H_{WP}	HORN SPEAKER - WEATHERPROOF
P	SPEAKER
C	CAMERA WITH PAN, TILT, & ZOOM
C_{WP}	CAMERA - WEATHERPROOF WITH PAN, TILT, & ZOOM
J_V J_A	SPECIAL SYSTEMS JUNCTION BOX ABOVE CEILING. ROUTE 1" C WITH PULL STRING TO DATA/ELECTRICAL ROOM. (V) VIDEO, (A) ALARM/ACCESS
A	ACCESS CONTROL - PROVIDE ACCESS CONTROL ROUGH-IN AT DOOR. REFER TO DETAILS FOR ACCESS CONTROL ROUGH-IN REQUIREMENTS.
D	MAGNETIC DOOR HOLDER
F	FIRE ALARM PULL STATION
F	FIRE ALARM COMBINATION HORN/STROBE DEVICE
S	FIRE ALARM COMBINATION SPEAKER/STROBE DEVICE
F	FIRE ALARM STROBE DEVICE
Z_I Z_C Z_M	FIRE ALARM ZAM DEVICE; IAM (I), CONTROL (C), OR MONITOR MODULE (M)
S	SMOKE DETECTOR
H	HEAT DETECTOR
S_D	DUCT SMOKE DETECTOR
S_{DA}	DUCT SMOKE DETECTOR WITH AUXILIARY CONTACTS
TS FS	TAMPER SWITCH / FLOW SWITCH
ATS	SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH
M	MANHOLE, HANDHOLE DESIGNATION REFER TO SCHEDULE.

DEVICE MOUNTING HEIGHTS

DEVICE MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTER OF OUTLET BOX UNLESS NOTED OTHERWISE ON PLANS. COORDINATE THE STANDARD MOUNTING HEIGHTS WITH MASONRY, MILLWORK, AND OTHER DISCIPLINES:

1. STANDARD RECEPTACLE: +18"
2. STANDARD DATA JACK: +18"
3. ABOVE COUNTER RECEPTACLE: +6" ABOVE COUNTERTOP
4. ABOVE COUNTER DATA JACK: +6" ABOVE COUNTERTOP
5. REFRIGERATOR RECEPTACLE: +48"
6. WASHER/DRYER RECEPTACLE: +36"
7. SWITCHES: +44"
8. INTERCOM CALL STATION: +44"
9. FIRE ALARM SPEAKER/STROBES: +84"
10. FIRE ALARM PULL STATIONS: +44"

WIRE TYPES

	LIGHTING CONTROL CABLING

EQUIPMENT AND CONDUIT LINE TYPES

	FURNISH + INSTALL NEW
	EXISTING
	DEMOLISH
	UNDERGROUND CONNECT TO EXISTING

2 (3#8 + 1#8 + 1#10EG) 3/4" GRS

- CONDUIT TYPE (SEE ABBREVIATIONS) REFER TO SPECIFICATIONS IF NOT SHOWN
- CONDUIT SIZE
- GROUNDED (NEUTRAL) CONDUCTOR, NUMBER AND SIZE
- GROUNDED (NEUTRAL) CONDUCTOR, NUMBER AND SIZE
- PHASE (HOT) CONDUCTOR, NUMBER & SIZE
- NUMBER OF SETS

XX - ## — HOME RUN TO PANEL. LETTER(S) INDICATE NAME OF PANEL. NUMBER(S) INDICATE CIRCUIT NUMBERS.

ONE LINE SYMBOLS

*	CIRCUIT BREAKER, TRIP RATING SHOWN, 3-POLE UNLESS NOTED.
*	FUSE, CURRENT LIMITING, RATING AS SHOWN.
480V / ** kVA / 208V	TRANSFORMER, RATINGS AS SHOWN.
M 10 HP	ELECTRIC MOTOR, HORSEPOWER SHOWN.
*	MOTOR STARTER, SIZE AS SHOWN OR REQUIRED. FVNR UNLESS NOTED.
SPD	SURGE PROTECTION DEVICE.
G *KW	GENERATOR
	GROUNDING ROD, 3/4" x 10' MINIMUM, COPPER CLAD.
	VARIABLE FREQUENCY DRIVE.
ATS-1 200A / 3P -BP	AUTOMATIC TRANSFER SWITCH

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ELECTRICAL POWER & LIGHTING LEGEND
E1.0

BROWN ENGINEERS, LLC No.1323 STATE OF ARKANSAS
STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 16666 OSBORN REGISTERED
BROWN ENGINEERS
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FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

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NETWORK SWITCH AT LIGHT POLE AT THE CORNER OF REDWOLF AND AGGIE FOR LPR CAMERA. PROVIDE NEW 17"X30"X12" QUAZITE POLYMER CONCRETE BOX. FURNISH AND INSTALL 24X24X12 BLACK POWDER COATED NEMA 3R ENCLOSURE ON UNISTRUT RACK AT GRADE. PROVIDE 30"X18.5" CONCRETE BASE AND MOUNT BLACK UNISTRUT ON CONCRETE BASE. MOUNT ENCLOSURE SUCH THAT BOTTOM OF ENCLOSURE IS 6" ABOVE GRADE. ROUTE (2) 2"C FROM ADJACENT HANDHOLE TO NEMA ENCLOSURE FOR FIBER, NETWORK, AND POWER CONNECTIONS. PROVIDE 120V POWER AS SHOWN TO ENCLOSURE. PROVIDE 1"C WITH OUTDOOR/SHIELDED CAT-6 CABLE FROM ENCLOSURE TO POLE FOR CAMERA.

J NS LWP- 36 (3#4)

CONTINUE ALONG AGGIE RD TO CORNER OF RED WOLF BLVD AND AGGIE RD. PROVIDE NEW TELECOM HANDHOLE WITHIN 20' OF EXISTING TELECOM PEDESTAL TO PROVIDE CONVENIENT TELECOM SERVICE PATHWAY TO NEW BUILDING. PROVIDE HANDHOLE FOR PULLBOX EVERY 150'.

(2) 4"C WITH PULLSTRING FOR TELECOM SERVICE ENTRANCE

2"C WITH FIBER FROM MDF TO DUCTBANK AND THEN TO NEW QUAZITE BOX AT THE CORNER OF REDWOLF AND AGGIE. ROUTE ALONG AGGIE ROAD ADJACENT TO TELECOM SERVICE ENTRANCE CONDUIT. PROVIDE HANDHOLE FOR PULLBOX EVERY 150'.

NEW ELECTRICAL PATHWAYS SHALL AVOID ALL UTILITY INFRASTRUCTURE IN THIS AREA. REFER TO CIVIL DRAWINGS AND FIELD VERIFY LOCATIONS OF UNDERGROUND PATHWAYS TO PREVENT DAMAGE OR INTERFERENCE WHEN ROUTING NEW UNDERGROUND ELECTRICAL.

UTILITY JUNCTION BOX, BY CWL.

APPROXIMATE LOCATION OF EXISTING OVERHEAD PRIMARY UTILITY POLE. COORDINATE WITH UTILITY TO DIP TO PRIMARY AT THIS LOCATION FOR UNDERGROUND PRIMARY RUN TO NEW PAD-MOUNT TRANSFORMER

PROVIDE (3)4"C FOR UTILITY PATHWAY

UTILITY PRIMARY AND UTILITY PAD-MOUNT TRANSFORMERS TO BE PROVIDED BY JONESBORO CWL. CONTRACTOR SHALL BE RESPONSIBLE FOR PRIMARY TRENCHING, PRIMARY CONDUIT, TRANSFORMERS PADS, AND ALL SECONDARY TRENCHING/CONDUIT/WIRE. COORDINATE ALL UTILITY ELECTRICAL SCOPE WITH SHERMAN HOUSE AT SHOUSE@JONESBOROCWL.ORG OR 870-930-3327.

(2) 4"C WITH PULLSTRING FOR TELECOM SERVICE ENTRANCE

UTILITY JUNCTION BOX, BY CWL. CONTRACTOR TO ROUTE CONDUITS TO JUNCTION BOX AND STUB-UP OR ROUTE INTO BOX PER CWL REQUIREMENTS. TYPICAL EACH JUNCTION BOX.

APPROXIMATE LOCATION OF RELOCATED FIBER OPTIC PATHWAY. LOCATE AND AVOID DURING UGE AND TELECOM PATHWAY ROUTING.

UTILITY JUNCTION BOX

PROVIDE (3)2"C TO PRIMARY STUB-UP BLOCK OUT OF EACH TRANSFORMER PAD

NOTE: MAIN-1, MAIN-2, AND MSWBD-1, AND MSWBD-2 FEEDERS SHALL BE ROUTED WITH TOP OF CONDUIT AT 36" BELOW GRADE. PROVIDE TELECOM CONDUIT CROSSINGS ABOVE POWER FEEDERS WITH MINIMUM VERTICAL COVER OF 12" BETWEEN POWER FEEDERS AND TELECOM CONDUITS.

MSWBD-1 FEEDER. REFER TO ONE-LINE.

EXTERIOR ENCLOSED MAIN CIRCUIT BREAKER "MAIN-1"

ELECTRICAL SERVICE FEEDERS TO MAIN-1 AND MAIN-2. REFER TO ONE-LINE.

NEW 17"X30"X12" QUAZITE POLYMER CONCRETE BOX

ROUTE 4"C WITH PULLSTRING BELOW GRADE AND STUB UP IN DATA ROOM.

EXTERIOR ENCLOSED MAIN CIRCUIT BREAKER "MAIN-2"

MSWBD-2 FEEDER. REFER TO ONE-LINE.

WP WP

MSWBD-1

MSWBD-2

STUB-UP IN IT ROOM. REFER TO SYSTEMS PLANS FOR LOCATION

F.E.C.

F.E.C.

ROUTE 1"C WITH PULLSTRING BELOW GRADE TO GRASS AREA ON SOUTH SIDE OF BUILDING FROM STUB UP IN FIRE RISER ROOM FOR IRRIGATION CONTROLS PATHWAY. CAP AND SEAL FOR FUTURE USE.

PROVIDE SEISMIC BRACING FOR EQUIPMENT, CONDUITS AND LIGHT FIXTURES TO MEET SEISMIC CATEGORY D REQUIREMENTS.

ROUTE 4"C WITH 12-STRAND SINGLE-MODE FIBER OPTIC CABLE BELOW GRADE TO QUAZITE BOXES FOR CONNECTION TO NETWORK SWITCHES AT SITE POLES WITH CAMERAS.

2"C WITH PULLSTRING BETWEEN HANDHOLES WITH FIBER AND CAMERA NETWORK CABLES

11"X18"X12" QUAZITE POLYMER CONCRETE BOX

2"C WITH PULLSTRING BETWEEN HANDHOLES WITH FIBER AND CAMERA NETWORK CABLES

2"C WITH PULLSTRING BETWEEN HANDHOLES WITH FIBER AND CAMERA NETWORK CABLES

11"X18"X12" QUAZITE POLYMER CONCRETE BOX

NEW 17"X30"X12" QUAZITE POLYMER CONCRETE BOX. FURNISH AND INSTALL 24X24X12 BLACK POWDER COATED NEMA 3R ENCLOSURE ON UNISTRUT RACK AT GRADE. PROVIDE 30"X18.5" CONCRETE BASE AND MOUNT BLACK UNISTRUT ON CONCRETE BASE. MOUNT ENCLOSURE SUCH THAT BOTTOM OF ENCLOSURE IS 6" ABOVE GRADE. ROUTE (2) 2"C FROM ADJACENT HANDHOLE TO NEMA ENCLOSURE FOR FIBER, NETWORK, AND POWER CONNECTIONS. PROVIDE 120V POWER AS SHOWN TO ENCLOSURE. PROVIDE 1"C WITH OUTDOOR/SHIELDED CAT-6 CABLE FROM ENCLOSURE TO POLE FOR CAMERA.

HP3- 11 VIA LCP

LP3- 28 (3#10) SA1 WP

SA2

LP1- 13 (3#10) WP NS WP SA2

LP4- 5 (3#10) WP WP WP SA2

HP2- 6 VIA LCP (3#10) WP SA2

ALL CONDUITS FOR EMERGENCY TOWER SHALL BE INSTALLED INTO THE CENTER OF THE FOUNDATION TO ALIGN WITH 4" DIAMETER HOLE IN BASE OF TOWER. FURNISH AND INSTALL 8'x1/2in" COPPER GROUNDING ROD WITH MINIMUM #6 INSULATED COPPER WIRE CONNECTED TO TOWER GROUND LUG INSIDE BOTTOM BASE PLATE. INSTALL AND TERMINATE PER NEC REQUIREMENTS.

24"X24"X12" NEMA 3R NETWORK SWITCH ENCLOSURE SHALL BE MOUNTED ON POLE AT 6' ABOVE GRADE. PROVIDE 120V POWER AS SHOWN AND 1"C FROM TELECOM HANDHOLE TO ENCLOSURE VIA POLE. COORDINATE WITH POLE MANUFACTURER FOR DRILL HOLES IN POLE AT ENCLOSURE FOR NETWORK AND 120V POWER CONNECTION.

11"X18"X12" QUAZITE POLYMER CONCRETE BOX. PROVIDE 1"C FROM HANDHOLE TO EMERGENCY TOWER.

2"C WITH PULLSTRING BETWEEN HANDHOLES WITH FIBER

SA1

ROUTE 4"C WITH PULLSTRING FROM EXISTING HANDHOLE TO NEW HANDHOLE.

MAINTAIN EXISTING QUAZITE BOX FOR REUSE. PROVIDE 4"C WITH PULLSTRING FROM EXISTING HANDHOLE AT THIS LOCATION TO NEW HANDHOLE AS SHOWN.

INCLUDE A 24"X24"X12" NEMA 3R BOX FOR HARDENED POE SWITCH FOR CAMERA NETWORK CONNECTION WHERE NOTED. PROVIDE 12-STRAND SINGLE-MODE FIBER FROM MDF TO EACH ENCLOSURE. PROVIDE (1) OUTDOOR/SHIELDED CAT-6 CABLE FROM NEAREST ENCLOSURE TO EACH CAMERA VIA HANDHOLES AND POLES. CAMERAS SHALL BE INSTALLED 20' ABOVE GRADE.

FUTURE ROADWAY

COORDINATE FINAL LIGHT POLE LOCATION SUCH THAT FUTURE ROUNDABOUT WILL NOT REQUIRE DEMOLITION OF POLE.

WP SA1 J NS LP4- 35 (3#10)

11"X18"X12" QUAZITE POLYMER CONCRETE BOX. FURNISH AND INSTALL 24X24X12 BLACK POWDER COATED NEMA 3R ENCLOSURE ON UNISTRUT RACK AT GRADE. PROVIDE 30"X18.5" CONCRETE BASE AND MOUNT BLACK UNISTRUT ON CONCRETE BASE. MOUNT ENCLOSURE SUCH THAT BOTTOM OF ENCLOSURE IS 6" ABOVE GRADE. ROUTE (2) 2"C FROM ADJACENT HANDHOLE TO NEMA ENCLOSURE FOR FIBER, NETWORK, AND POWER CONNECTIONS. PROVIDE 120V POWER AS SHOWN TO ENCLOSURE. PROVIDE 1"C WITH OUTDOOR/SHIELDED CAT-6 CABLE FROM ENCLOSURE TO POLE FOR CAMERA.

1 ELECTRICAL SITE PLAN
1" = 30'-0"

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ELECTRICAL SITE PLAN
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KEYNOTES

L900 FURNISH AND INSTALL "LUTRON QP5-2L-POE SERIES LIGHTING MANAGEMENT HUB" PROVIDE PHOTOCELL AND TIMECLOCK FOR AUTOMATIC CONTROL. REFERENCE LIGHTING CONTROL NOTES AND COORDINATE WITH OWNER FOR FINAL PROGRAMMING.

COORDINATE WITH OWNER PROVIDED WELDING BOOTHS. INSTALL TYPE S2 STRIP LIGHTS AT ~8' AFF ON WALL OF OWNER PROVIDED WELDING BOOTHS AND MOUNT LIGHT SWITCH ON SIDE WALL OF WELDING BOOTH. TYPICAL ALL WELDING BOOTHS.

HIGH BAY NIGHT LIGHTS SHALL BE PROGRAMMED TO OPERATE AT 50% OUTPUT WHEN IN NIGHT LIGHT MODE. TYPICAL.

HIGHBAY LIGHTS SHALL BE SUSPENDED AT 15' 0" FROM 3" UNISTRUT MOUNTED TO STRUCTURE. TYPICAL.

MOUNT REMOTE DRIVERS FOR TYPE T LIGHTS SUCH THAT THEY ARE CONCEALED FROM VIEW AND DO NOT INTERFERE WITH ILLUMINATION FROM FIXTURE OR WINDOW. REMOTE DRIVERS FOR TYPE T ON WEST WALL SHALL BE MOUNTED ABOVE CLASSROOM CEILINGS.

MOUNT ON EXTERIOR MULLION AT 8' 1-1/4" AFF. INSTALL REMOTE POWER SUPPLY FOR MULLION FIXTURE ABOVE CEILING IN FURNITURE STORAGE 132.

ALIGN SWITCH VERTICALLY WITH DOOR OPENER PUSH BUTTON.

PROVIDE (1) N16 FIXTURE MOUNTED TO BACK OF ALUMINUM STANDOFF SIGNAGE ON BUILDING. MOUNT FIXTURE ABOVE LETTERING AT 11' 10". INSTALL REMOTE DRIVER ABOVE ACCESSIBLE CEILING IN FURNITURE STORAGE 132. ROUTE THROUGH MASONRY WITH 3/4"C. SEAL ALL PENETRATIONS.

INSTALL TWICE BRIGHT SM SERIES LED SIGN MODULES FOR BACKLIGHTING ON LETTERING. FIELD CUT SECTIONS AS REQUIRED FOR EACH LETTER. INSTALL (2) REMOTE DRIVERS ABOVE ACCESSIBLE CEILING IN FURNITURE STORAGE 132. ONE DRIVER WILL BE USED FOR EACH WORD. PROVIDE TERMINAL BLOCKS FOR THE POSITIVE AND NEGATIVE TERMINALS AT EACH DRIVER. "CREST" DRIVER SHALL HAVE (9) SECTIONS OF LIGHTING. "CENTER" DRIVER SHALL HAVE (11) SECTIONS OF LIGHTING. ROUTE LOW VOLTAGE CABLE FOR EACH SECTION BACK TO TERMINAL BLOCKS AT DRIVER AND CONCEAL ALL WIRING AND PENETRATIONS BEHIND ALUMINUM PANEL. NO WIRING SHALL BE VISIBLE BETWEEN GAPS OR PERIMETER AT ALUMINUM STANDOFF SIGNAGE. FURNISH AND INSTALL ALL REQUIRED COMPONENTS AND WIRING FOR A COMPLETE SIGNAGE LIGHTING SYSTEM. ROUTE (2)1"C THROUGH MASONRY FOR DRIVER CONNECTIONS. SEAL ALL PENETRATIONS.

LIGHTING -- FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	DESCRIPTION	ELECTRICAL REQUIREMENTS WATTAGE	VOLTAGE	COMMENTS
A	WILLIAMS INDOOR	BAR-22-L50-835-DIM1-UNV	2x2 INDIRECT TROFFER, 5000LM, 3500K	54 W	277 V	
AE	WILLIAMS INDOOR	BAR-22-L50-835-EM/10W-DIM1-UNV	2x2 INDIRECT TROFFER, WITH BATTERY BACKUP, 5000LM, 3500K	54 W	277 V	
B	HE WILLIAMS	4DR-TL-L20-835-DIM-UNV-FW-OF-CS-N-F1-AWNR	4.5" RECESSED DOWNLIGHT, 2000LM, 3500K	20 W	277 V	
B2	WILLIAMS INDOOR	4DR-TL-L40-835-DIM-UNV-FW-OF-CS-N-F1-AWNR	4.5" RECESSED DOWNLIGHT, 4000LM, 3500K	38 W	277 V	
B2E	HE WILLIAMS	4DR-TL-L40-835-EM/10W-DIM-UNV-FW-OF-CS-N-F1-AWNR	4.5" RECESSED DOWNLIGHT WITH BATTERY BACKUP, 4000LM, 3500K	20 W	277 V	
BE	HE WILLIAMS	4DR-TL-L20-835-EM/7W-DIM-UNV-FW-OF-CS-N-F1-AWNR	4.5" RECESSED DOWNLIGHT WITH BATTERY BACKUP, 2000LM, 3500K	20 W	277 V	
C	PMC LIGHTING	SLC-D-FL-096-WOA-CBA-35K-21.5-UNV	21' 6" RECESSED LINEAR	156 W	277 V	
F	IGUZZINI	ILM47LS-20'-HO-835-WGWF-U-2-UNV-XX-D10	20' LINEAR WITH ADJUSTABLE BRACKET	300 W	277 V	FIXTURES SHALL BE AIMED AT 20° TO ILLUMINATE FULL FIN
G1	HE WILLIAMS	2DR-L15-835-DIM-UNV-R-W-ZF-CS-WH-WET/CC-N-F1	RECESSED ANGLED CAN, EXTERIOR RATED	18 W	277 V	
G1E	HE WILLIAMS	2DR-L15-835-EM/7W-DIM-UNV-R-W-ZF-CS-WH-WET/CC-N-F1	RECESSED ANGLED CAN WITH BATTERY BACKUP, EXTERIOR RATED	18 W	277 V	
G2	HE WILLIAMS	2DR-L15-835-DIM-UNV-L-W-ZF-CS-WH-WET/CC-N-F1	RECESSED CAN, EXTERIOR RATED	18 W	277 V	
G2E	HE WILLIAMS	2DR-L15-835-EM/7W-DIM-UNV-L-W-ZF-CS-WH-WET/CC-N-F1	RECESSED CAN WITH BATTERY BACKUP, EXTERIOR RATED	18 W	277 V	
H	CURRENT	PELA-835-L18-B-ED-U-ST-F5C012 / 93302311-AWNRPSHB-2-24L-FPD-D-UNV-835-CBA	SUSPENDED HIGH BAY 18000L, 4000K,	144 W	277 V	
HE	CURRENT	PELA-835-L18-B-ED-U-ST-F5C012-EL20-93302311-AWNRPSHB-2-24L-FPD-D-UNV-835-CBA-EM	SUSPENDED HIGH BAY WITH BATTERY BACKUP 18000L, 4000K	144 W	277 V	
I36	IGUZZINI	ILM47-36'-HO-835-WGM-M-1-UNV-FINISH-D10-CABLE?-4543-00-ILM47LS-SW-A2-36'	36' EXTERIOR RATED GRAZING LIGHT WITH VISOR	540 W	277 V	INSTALL VISOR TO SHIELD UNDERSIDE OF FIXTURE
I37	IGUZZINI	ILM47-37'-HO-835-WGM-M-1-UNV-FINISH-D10-CABLE?-4543-00-ILM47LS-SW-A2-37'	37' EXTERIOR RATED GRAZING LIGHT WITH VISOR	540 W	277 V	INSTALL VISOR TO SHIELD UNDERSIDE OF FIXTURE
K24	HE WILLIAMS	MX2WUD-22'00-L12_835U_L12_835D-F_F-DIM-UNV-AWNR2	22' WALL MOUNTED DIRECT/INDIRECT LINEAR, 1500LM/FT	507 W	277 V	
L4	H.E. Williams	LRX3G-4'-L10-8-35-DMA-DIM1-UNV-AWNR	4' RECESSED LINEAR, 1000LM/FT, 3500K	36 W	277 V	
L4E	H.E. Williams	LRX3G-4'-L10-8-35-DMA-EM/10W-DIM1-UNV-AWNR	4' RECESSED LINEAR, 1000LM/FT, 3500K WITH BATTERY BACKUP	36 W	277 V	
L6	H.E. Williams	LRX3G-6'-L10-8-35-DMA-DIM1-UNV-AWNR	6' RECESSED LINEAR, 1000LM/FT, 3500K	53 W	277 V	
L6E	H.E. Williams	LRX3G-6'-L10-8-35-DMA-EM/10W-DIM1-UNV-AWNR	6' RECESSED LINEAR, 1000LM/FT, 3500K, W/ BATTERY BACKUP	53 W	277 V	
L6F	H.E. Williams	LRX3F-6'-L10-8-35-DMA-DIM1-UNV-AWNR	6' RECESSED LINEAR WITH FLANGE, 1000LM/FT, 3500K	53 W	277 V	
L6FE	H.E. Williams	LRX3G-6'-L10-8-35-DMA-EM/10W-DIM1-UNV-AWNR	6' RECESSED LINEAR WITH FLANGE, 1000LM/FT, 3500K, W/ BATTERY BACKUP	53 W	277 V	
ME	MULE LIGHTING	EUE-BB-20-A-W-CW1	MULLION MOUNTED LIGHT, 3800K WITH BATTERY BACKUP	41 W	277 V	
N16	LEDI	CB1-OUT-46-35-16' / DR-96W-24V-DIMALL	EXTERIOR RATED 16' TAPE LIGHT, 3500K, 375LM/FT, W/ 96W DRIVER	74 W	277 V	
P	TWICE BRIGHT	(6) SM12HO-3-860-25 / (2)DR-60W12VDC-S-OUT	(5) EXTERIOR RATED 12.5' TAPE LIGHT, 6000K, WITH (2) 60W DRIVERS	125 W	277 V	
R4	H.E. Williams	MX2R-G-4'00-L12-8-35-FW-DIM-UNV-AWNR	4' RECESSED LINEAR, 1200LM/FT, 3500K	39 W	277 V	
R4E	H.E. Williams	MX2R-G-4'00-L12-8-35-FW-DIM-UNV-EM/10WLP-AWNR	4' RECESSED LINEAR, 1200LM/FT, 3500K WITH BATTERY BACKUP	39 W	277 V	
S1	HE WILLIAMS	FS-4-LS-8CS-DIM-UNV_42W_3500K, SUSPENDED	SELECTABLE 4' STRIP SET TO 4800L, 3500K, SUSPENDED MOUNT	41 W	277 V	
S1E	HE WILLIAMS	FS-4-LS-8CS-EM/10WLP-DIM-UNV_42W_3500K, SUSPENDED	SELECTABLE 4' STRIP SET TO 4800L, 3500K, WITH BATTERY BACKUP SUSPENDED MOUNT	41 W	277 V	
S2	HE WILLIAMS	96-2-L21-835-SFPC-DIM-UNV-GC2/Y18/10-RCM/PWU	2' STRIP 2100LM, 3500K, SURFACE MOUNT	18 W	277 V	
SA1	LSI INDUSTRIES	MRM-LED-24L-SIL-FT-UNV-DIM-40-70CRI-CBA / 4SQ-B3-S11G-25-S-CBA-122559CBA-AB KIT 122609	PARKING LOT LIGHTING ON 25' POLE 24000LM	161 W	277 V	PROVIDE (2) POLES WITH DRILLED HOLE AT 17'0" FOR CAMERA
SA2	LSI INDUSTRIES	(2)MRM-LED-24L-SIL-FT-UNV-DIM-40-70CRI-CBA / 4SQ-B3-S11G-25-S-CBA- 122559CBA-AB KIT 122609	2-HEAD PARKING LOT LIGHTING ON 25' POLE 24000LM	322 W	277 V	PROVIDE (1) POLE WITH (2) DRILLED HOLES AT 180° AT 17'0" AND PROVIDE (1) POLE WITH (1) DRILLED HOLE AT 17'0" FOR CAMERAS.
T22	LEDI	V5-SPEC-75-35-22'-1 / DR-200W-24V-DIMALL	22' TAPE LIGHT, 872LM/FT, 3500K, SLIM CHANNEL AND 200W DRIVER	181 W	277 V	
T24	LEDI	V5-SPEC-75-35-24'-1 / DR-200W-24V-DIMALL	24' TAPE LIGHT, 872LM/FT, 3500K, SLIM CHANNEL AND 200W DRIVER	181 W	277 V	
V	HE WILLIAMS	MX2R-TR-15'00"-L4-835-F-DIM-UNV-AWNR	15' RECESSED PERIMETER, 400LM/FT, 3500K	51 W	277 V	
V2	HE WILLIAMS	MX2R-TR-2'00"-L4-835-F-DIM-UNV-AWNR	2' RECESSED PERIMETER, 400LM/FT, 3500K	7 W	277 V	
X1	MULE LIGHTING	U-PVT-B-CBA	UNIVERSAL EXIT - SELF POWERED	2 W	277 V	WALL MOUNTS SHALL BE 11' 0" AFF UNLESS OTHERWISE NOTED.
X2	MULE LIGHTING	WLMX-1-B-R-WH-SD	UNIVERSAL EXIT - SELF POWERED	2 W	277 V	

GENERAL LIGHTING NOTES:

1. FURNISH AND INSTALL UNSWITCHED CIRCUIT TO ALL EXIT, EMERGENCY AND EMERGENCY EGRESS LIGHTING FIXTURES.
2. COORDINATE WITH OWNER FOR TIME SETTINGS OF ALL OCCUPANCY SENSING DEVICES. OCCUPANCY SENSORS IN RESTROOMS SHALL BE SET TO MAXIMUM TIME DELAY.
3. WHERE MULTIPLE SWITCHES ARE SHOWN IN ONE AREA FOR ONE ZONE, SWITCH SHALL BE CONFIGURED TO CONTROL THE SINGLE ZONE FROM MULTIPLE LOCATIONS.
4. WHERE MULTIPLE SWITCHES ARE SHOWN ADJACENT TO ONE ANOTHER, INSTALL SWITCHES IN MULTI-GANG BOX SIZED PER QUANTITY OF SWITCHES.
5. FOR ALL EXTERIOR FIXTURES, REFER TO ARCHITECTURAL SHEETS AND DETAILS PRIOR TO ROUGH-IN FOR EXACT MOUNTING HEIGHTS AND LOCATIONS.
6. WHERE "NL" IS NOTED NEXT TO FIXTURE. PROVIDE UNSWITCHED POWER FOR CONSTANT ILLUMINATION AND "NIGHT LIGHT" FUNCTION.
7. CONCEAL ALL WIRELESS LIGHTING CONTROL PANELS AND CABLING. COORDINATE WITH ARCHITECT AND LIGHTING CONTROLS VENDOR FOR FINAL LOCATIONS. INSTALL PER MANUFACTURERS REQUIREMENTS.
8. ROOMS SHALL BE CONTROLLED VIA LOCAL OCCUPANCY SENSOR UNLESS OTHERWISE NOTED. IF LOCAL TOGGLE SWITCH IS PRESENT, SWITCH WILL PROVIDE MANUAL OVERRIDE TO OCCUPANCY SENSOR.
9. FURNISH AND INSTALL QS CONTROL WIRE FROM LCP TO ALL QSN2 AND QSM2 DEVICES PER SHOP DRAWINGS.
10. FURNISH AND INSTALL CAT-6 CABLING FROM LCP TO A-RF2 DEVICES PER SHOP DRAWINGS.
11. SEPARATE LIGHTING ZONES IN CLASSROOMS AND COMMUNITY ROOM ARE INDICATED BY 'a','b','c' ETC. EACH ZONE SHALL BE INDIVIDUALLY CONTROLLABLE.

1 LIGHTING PLAN
1/8" = 1'-0"
NORTH

FENNELL PURIFOY ARCHITECTS + DAKE | WELLS architecture

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LIGHTING PLAN
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WELDING BOOTH GROUNDING:

PROVIDE 2"X6" COPPER GROUND BAR AT EACH WELDING BOOTH AND MOUNT TO BOOTH FRAME. PROVIDE #6 AWG COPPER BONDING CONDUCTOR FROM DISCONNECT EQUIPMENT GROUND TO GROUND BAR. BOND WELDING BOOTH FRAME, STEEL WORK BENCH, AND OTHER NON-CURRENT-CARRYING METALIC COMPONENTS TO GROUND BAR USING #6 AWG COPPER CONDUCTORS. PROVIDE CONTINUOUSLY BONDED METALLIC WORK AREA AT EACH WELDING BOOTH.

POWER FROM THE BUSWAYS SHALL BE ROUTED OVERHEAD AT STRUCTURE AND SHALL DROP DIRECTLY DOWN TO THE EQUIPMENT THEY SERVER.

ALL WELDING BOOTH CIRCUITS SHALL BE STUBBED UP AT BOOTH LOCATIONS. COORDINATE WITH OWNER FOR FINAL LOCATIONS.

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CABLING AND TERMINATIONS FROM BUSWAY TO EQUIPMENT. ALL DROPS THAT REQUIRE RECEPTACLE OR DATA JACK TERMINATIONS SHALL INCLUDE OUTLET BOX.

COORDINATE HEIGHTS OF ABOVE COUNTER RECEPTACLES WITH ARCHITECT IN RESTROOMS, COMMUNITY ROOM, AND STUDENT SPACE PRIOR TO ROUGH-IN.

ALL EXPOSED CONDUIT AND ASSOCIATED FITTINGS AND HANGERS SHALL BE PAINTED TO MATCH ADJACENT FINISHES. COORDINATE WITH ARCHITECT FOR COLORS.

FURNISH AND INSTALL TYPED LABELS ON FACEPLATES FOR ALL ELECTRICAL OUTLETS. LETTERING WILL BE AT LEAST 1/4" TALL AND WILL BE BLACK LETTERING ON WHITE TAPE. OUTLETS SHALL BE LABELED WITH THE PANEL NAME AND CIRCUIT NUMBER. ALL CIRCUITS SHALL BE LABELED ON THE PANELBOARD SCHEDULE PER SPECIFICATIONS.

KEYNOTES

D13N	PROVIDE 100A/3P/NF/NEMA 1 DISCONNCT.
D14N	PROVIDE 100A/3P/NF/NEMA 3R DISCONNECT.
D23N	PROVIDE 200A/3P/NF/NEMA 1 DISCONNCT.
D31N	PROVIDE 30A/1P/NF/NEMA 1 DISCONNCT.
D33N	PROVIDE 30A/3P/NF/NEMA 1 DISCONNCT.
D34N	PROVIDE 30A/3P/NF/NEMA 3R DISCONNECT.
D63N	PROVIDE 60A/3P/NF/NEMA 1 DISCONNCT.
P150	FURNISH AND INSTALL LEGRAND EFSB4 OR EQUAL WALL BOX WITH DEVICES AS SHOWN. FURNISH AND INSTALL CONDUITS PER MONITOR DETAIL FROM WALL BOX TO ABOVE CEILING AND CAP. COORDINATE WALL BOX MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
P154	FURNISH AND INSTALL LEGRAND RFB40G FLOOR BOX WITH (2) DUPLEX RECEPTACLES, (1) GANG FOR DATA JACKS, AND (1) GANG FOR MISCELLANEOUS AV CONNECTIONS. ROUTE 1-1/4" CONDUIT FOR POWER, 1-1/4" CONDUIT FOR DATA, AND 1-1/4" CONDUIT FOR A/V IN FLOOR TO NEAREST WALL AND STUB-UP ABOVE NEAREST ACCESSIBLE CEILING. COORDINATE WITH ARCHITECT FOR FINAL BOX LOCATION.
P250	ELECTRIC WATER COOLER RECEPTACLE: CONCEAL WITHIN CABINET PER MANUFACTURER'S REQUIREMENTS.
P900	FURNISH AND INSTALL LEGRAND RFB40G FLOOR BOX WITH DUPLEX RECEPTACLES AND DATA JACKS AS INDICATED ON PLANS. ROUTE 1-1/4" CONDUIT FOR POWER AND 1-1/4" CONDUIT FOR DATA IN FLOOR TO NEAREST WALL AND STUB-UP ABOVE NEAREST ACCESSIBLE CEILING. COORDINATE WITH ARCHITECT FOR FINAL BOX LOCATION.
P901	FURNISH AND INSTALL LEGRAND 1200 SERIES CORD REEL AT STRUCTURE WITH 50' 12AWG/3C CABLE RATED 20A AND INCLUDING 20A QUAD RB DEVICE. PROVIDE STOPPER ON CORD SUCH THAT DEVICE RETRACTS TO APPROXIMATELY 6'-0" AFF WHEN NOT IN USE. CIRCUIT SHALL BE ON GFI CIRCUIT BREAKER. COORDINATE FINAL LOCATION OF CORD REEL WITH OWNER AND ALL EQUIPMENT LOCATIONS. TYPICAL EACH CORD REEL LOCATION.
P902	FURNISH AND INSTALL LEGRAND EFSB4 OR EQUAL WALL BOX WITH DEVICES AS SHOWN. FURNISH AND INSTALL CONDUITS PER MONITOR DETAIL FROM WALL BOX TO ABOVE CEILING AND CAP. WALL BOX SHALL BE MOUNTED AT 1'6" AFF.
P903	FURNISH AND INSTALL 225A/3P BREAKER FOR TRANSFORMER TX5 SECONDARY LOCAL DISCONNECT.
P904	FURNISH AND INSTALL 400A/3P BREAKER FOR TRANSFORMER TX6 SECONDARY LOCAL DISCONNECT.

PROVIDE POWER TO OVERHEAD DOOR. COORDINATE FINAL OPERATOR HP WITH VENDOR AND CONNECT TO 20, 25A, OR 30A CIRCUIT BREAKER IN PANEL LWP AS REQUIRED. PROVIDE 3/4" C WITH PULLSTRING TO CONTROL LOCATION.

EXTERIOR OVERHEAD DOORS AND SECURITY GRILLE SHALL HAVE POSITION SWITCH FOR INTERFACE WITH ACCESS CONTROLS SYSTEM. COORDINATE WITH ACCESS CONTROLS VENDOR FOR EXACT REQUIREMENTS. TYP OF (3).

PROVIDE FINAL CONNECTIONS FROM DISCONNECT TO LINE REACTOR AND COMPRESSOR AT EACH AIR COMPRESSOR. TYPICAL

COORDINATE WITH PLUMBING CONTRACTOR FOR FINAL LOCATION OF ALL WATER HEATER AND RECIRC PUMP RECEPTACLES. TYPICAL.

FURNISH AND INSTALL WEATHERPROOF WHILE IN USE OUTLET COVER PER SPECS UNLESS OTHERWISE NOTED.

PROVIDE 3/4"C FROM OVERHEAD DOOR TO CONTROL LOCATION. COORDINATE WITH OWNER FOR FINAL LOCATION.

FURNISH AND INSTALL LOW PROFILE DIE CAST WEATHERPROOF COVER.

PROVIDE 3/4"C FROM SHADE MOTOR TO CONTROL LOCATION. COORDINATE WITH OWNER FOR FINAL LOCATION. COORDINATE ELECTRICAL LOAD WITH SUBMITTED EQUIPMENT.

SUSPEND TRANSFORMER WITH BOTTOM OF TRANSFORMER AT 13' AFF. PROVIDE CEILING MOUNT BRACKET AND ALL SEISMIC BRACING REQUIRED TO SUSPEND FROM CEILING. COORDINATE WITH STRUCTURAL FOR CEILING MOUNTING LOCATION. LOCAL BREAKER SHALL BE MOUNTED BENEATH TRANSFORMER AT 4' 0".

INSTALL QUAD OUTLETS AT END OF EACH TABLE AS CLOSE TOGETHER AS POSSIBLE.

INSTALL QUAD OUTLETS AT END OF EACH TABLE AS CLOSE TOGETHER AS POSSIBLE.

FURNISH AND INSTALL LOW PROFILE DIE CAST WEATHERPROOF COVER.

FURNISH AND INSTALL LOW PROFILE DIE CAST WEATHERPROOF COVER.

STUB-UP RIGID CONDUIT FROM SLAB NEAR WINDOW AND INSTALL DEVICE AT 6" ABOVE GRADE. TERMINATE RIGID CONDUIT IN FS BOX AND PROVIDE STAINLESS STEEL GASKETED DEVICE COVER PLATE. ALIGN STUB-UPS WITH CURTAIN WALL MULLIONS.

SUSPEND TRANSFORMER WITH BOTTOM OF TRANSFORMER AT 12' AFF. PROVIDE CEILING MOUNT BRACKET AND ALL SEISMIC BRACING REQUIRED TO SUSPEND FROM CEILING. COORDINATE WITH STRUCTURAL FOR CEILING MOUNTING LOCATION. DISCONNECT SWITCH SHALL BE MOUNTED BENEATH TRANSFORMER AT 4' 0". TYP ALL TRANSFORMERS IN HIGH BAY AREA UNLESS OTHERWISE NOTED.

COORDINATE WITH OWNER FOR FINAL MONITOR LOCATIONS PRIOR TO INSTALLATION.

COORDINATE FINAL HIGH AND LOW WALL BOX LOCATIONS WITH OWNER AND FINAL PODIUM LOCATIONS, TV LOCATIONS, AND TV SIZES.

FURNISH AND INSTALL LOW PROFILE DIE CAST WEATHERPROOF COVER.

PROVIDE 3/4"C FROM SHADE MOTOR TO CONTROL LOCATION. COORDINATE WITH OWNER FOR FINAL LOCATION. COORDINATE ELECTRICAL LOAD WITH SUBMITTED EQUIPMENT.

POWER - HIGH BAY EQUIPMENT SCHEDULE

TYPE MARK	DESCRIPTION	VOLTAGE	POLES	KVA	TERMINATION	COMMENTS
HB1	WELDER	480 V	3	41.57 kVA	HUBBELL 7764 3P4W 50A RECEPTACLE	SUPPLEMENTAL 120V POWER REQUIRED
HB2	CNC PLASMA TABLE	480 V	3	41.57 kVA	HUBBELL 7764 3P4W 50A RECEPTACLE	SUPPLEMENTAL 120V POWER REQUIRED
HB3	IRON WORKER	480 V	3	24.94 kVA	HARDWIRED (CONFIRM)	
HB4	VERTICAL BANDSAW	480 V	3	16.63 kVA	HARDWIRED (CONFIRM)	
HB5	HORIZONTAL BANDSAW	120 V	1	1.80 kVA	NEMA 5-15R (CONFIRM)	
HB6	HAAS MINI MILL #1	220 V	3	9.53 kVA	HARDWIRED	WATER REQUIRED
HB7	HAAS MINI MILL #2	208 V	3	14.41 kVA	HARDWIRED	WATER REQUIRED
HB8	HAAS ST 10 LATHE	220 V	3	13.34 kVA	HARDWIRED	WATER REQUIRED
HB9	ENCO MANUAL MILL #1	480 V	3	2.66 kVA	HARDWIRED	SUPPLEMENTAL 120V POWER REQUIRED
HB10	JET MILL	480 V	3	2.66 kVA	HARDWIRED	SUPPLEMENTAL 120V POWER REQUIRED
HB11	JET LATHE 1440 W-3	480 V	3	8.31 kVA	HARDWIRED	SUPPLEMENTAL 120V POWER REQUIRED
HB12	JET LATHE 1440 ZX	480 V	3	16.63 kVA	HARDWIRED	SUPPLEMENTAL 120V POWER REQUIRED
HB13	JET LATHE 1340 A	480 V	3	4.16 kVA	HARDWIRED	SUPPLEMENTAL 120V POWER REQUIRED
HB14	BAND SAW-VERTICAL	120 V	1	1.20 kVA	NEMA 5-15R	
HB15	BAND SAW-HORIZONTAL	120 V	1	1.20 kVA	NEMA 5-15R	
HB16	SURFACE GRINDER	120 V	1	1.20 kVA	NEMA 5-15R	
HB17	BENCH GRINDER	120 V	1	1.20 kVA	NEMA 5-15R	
HB18	DRILL PRESS	120 V	1	1.20 kVA	NEMA 5-15R	
HB19	MOTOR CONTROL TRAINER	208 V	3	3.60 kVA	NEMA L21-20R	SUPPLEMENTAL 120V POWER REQUIRED
HB20	WIRING TRAINER	208 V	3	3.60 kVA	NEMA L21-20R	
HB21	HYDRAULIC TRAINER	120 V	1	1.54 kVA	NEMA 5-15R	
HB22	HYDRAULIC MAINTENANCE TRAINER	120 V	1	1.54 kVA	NEMA 5-15R	
HB23	HYDRAULIC TROUBLESHOOTING TRAINER	120 V	1	1.54 kVA	NEMA 5-15R	
HB24	MECHANICAL DRIVES	120 V	1	0.60 kVA	NEMA 5-15R	
HB25	PLC TRAINER	120 V	1	0.60 kVA	NEMA 5-15R	
HB26	SKILL BOSS	120 V	1	0.60 kVA	NEMA 5-15R	
HB27	AC DRIVER TRAINER #1	120 V	1	1.20 kVA	NEMA 5-15R	
HB28	AC DRIVER TRAINER #2	208 V	3	1.80 kVA	NEMA L21-20R	
HB29	LEVEL AND FLOW PROCESS TRAINER	120 V	1	0.84 kVA	NEMA 5-15R	WATER REQUIRED
HB30	TEMPERATURE PROCESS TRAINER	208 V	3	3.60 kVA	NEMA L21-20R	WATER REQUIRED
HB31	PRESSURE PROCESS TRAINER	120 V	1	0.84 kVA	NEMA 5-15R	WATER REQUIRED
HB32	ANALYTICAL PROCESS TRAINER	120 V	1	0.84 kVA	NEMA 5-15R	WATER REQUIRED
HB33	INDUSTRIAL ELECTRICAL STATION	120 V	1	0.60 kVA	NEMA 5-15R	
HB34	FANUC ROBOT	120 V	1	0.60 kVA	NEMA 5-15R	
HB35-2		208 V	3	4.99 kVA		
HB35-4	ABB ROBOT	480 V	3	4.99 kVA	HARDWIRED (CONFIRM)	
HB36	OPEN SOURCE ROBOT	120 V	1	0.60 kVA	NEMA 5-15R	
HB37	PNEUMATIC TRAINER	120 V	1	0.60 kVA	NEMA 5-15R	
HB38	PNEUMATIC TROUBLESHOOTING TRAINER	120 V	1	0.60 kVA	NEMA 5-15R	
HB40	3D PRINTER	120 V	1	1.90 kVA	NEMA 5-15R	
HB43	FIBER LASER CUTTER	220 V	3	12.00 kVA	HARDWIRED	
HB44	CNC BRAKE PRESS	220 V	3	16.00 kVA	HARDWIRED	
HB45	HAAS MINI MILL TABLE TOP	120 V	1	1.90 kVA	NEMA 15-20R	
HB46	HAAS MINI LATHE TABLE TOP	120 V	1	1.90 kVA	NEMA 15-20R	
HB47	REDWOLF ROBOT	120 V	1	0.60 kVA	NEMA 5-15R	

BUSWAY NOTE:

FURNISH AND INSTALL BUSWAY PER BELOW, OR EQUAL. BUSWAY SHALL BE INSTALLED PER MANUFACTURER AND NEC REQUIREMENTS. PROVIDE ALL REQUIRED SECTIONS, END-FEEDS, CONNECTORS, HANGERS, STRUCTURAL ATTACHMENTS, PLUG-IN UNITS, BOXES, AND ALL REQUIRED ACCESSORIES FOR A FULL FUNCTIONAL SYSTEM. CONTRACTOR SHALL INCLUDE ALL MATERIAL AND LABOR REQUIRED FOR A BUSWAY SYSTEM INCLUDING THE FEEDER AND FINAL CONNECTIONS FROM UPSTREAM ELECTRICAL SYSTEM AND THE CORD AND DISCONNECT, DEVICE, OR FINAL CONNECTION TO EQUIPMENT AT EACH LOAD, INCLUDING ANY ASSOCIATED BACKBOXES AND SUPPORTS..

BD1 : STARLINE U-S-250-T5-C-G-S-100' 0"-C-RAL-0 240/120V, 3PH
BD2 : STARLINE U-S-400-T5-C-G-S-100' 0"-C-RAL-0 208/120V, 3PH
BD3 : STARLINE U-S-400-T5-C-G-S-100' 0"-C-RAL-0 480/277V, 3PH

FOR EACH CIRCUIT SHOWN WITH HOME-RUN TO BUSWAY BD1, BD2, OR BD3, CONTRACTOR SHALL PROVIDE A PLUG-IN UNIT FOR THAT CIRCUIT AND APPROPRIATELY SIZED CORD FROM PLUG-IN UNIT TO ASSOCIATED DISCONNECT, RECEPTACLE, OR EQUIPMENT. REFER TO BUSWAY PANEL SCHEDULES FOR PLUG-IN UNIT CIRCUIT BREAKER SIZING FOR EACH CIRCUIT.

WHERE DISCONNECTS ARE SHOWN FOR EQUIPMENT FED IN HIGH-BAY ARE AND FED FROM BUSWAY, MOUNT DISCONNECT ON NON-REMOVABLE PANEL OF EQUIPMENT.

WHERE RECEPTACLES ARE SHOWN FOR EQUIPMENT FED IN CENTER OF HIGH-BAY AREA AND FED FROM BUSWAY, PROVIDE UNISTRUT SUPPORT AT STRUCTURE OVERHEAD RECEPTACLE LOCATION FOR CABLE SUPPORT. REFER TO DETAILS ON E8.1

1 ELECTRICAL POWER PLAN
1/8" = 1'-0"

NORTH

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ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER
JONESBORO, ARKANSAS

REVISIONS:

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ELECTRICAL POWER PLAN
E4.0

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JONESBORO, ARKANSAS

KEYNOTES

P301 FURNISH AND INSTALL A DATA RACK AND PATCH PANELS PER ASU-ITS CAMPUS STANDARDS ANDMAKE ALL FIBER AND COPPER TERMINATIONS. COORDINATE WITH OWNER'S IT PERSONNEL FOR FINAL LOCATION. ROUTE ALL DATA CABLING IN AREA TO THIS LOCATION.

P302 FURNISH AND INSTALL WALL MOUNTED A/V DATA RACK IN CASEWORK. RACK SHALL BE 24"W X 24"D X 24"H. RACK SHALL BE CHATSWORTH 11840-724 PER ASU-IT SERVICES COMPUTER NETWORK SPECS.

ROUTE CABLE PATHWAY FOR CAMERAS TO SOFFIT

WALL DATA FOR EMERGENCY PHONE

STUB-UP SITE TELECOM CONDUITS AT THIS LOCATION

PROVIDE CAT-6 CABLING WITH 25' SERVICE LOOP AT STRUCTURE FOR DROP TO EQUIPMENT. TYPICAL.

PROVIDE CAT-6 CABLING AT STRUCTURE FOR WIRELESS ACCESS POINT. TYP OF 6.

PROVIDE 8-JACK DATA OUTLET

PROVIDE 6-JACK DATA OUTLET

FA REMOTE ANNUNCIATOR

FIRE ALARM ANNUNCIATOR SHALL BE RECESSED AND FLUSH WITH WALL IT'S MOUNTED ON.

EXTERIOR OVERHEAD DOORS AND SECURITY GRILLE SHALL HAVE POSITION MONITORING SWITCH. COORDINATE WITH ACCESS CONTROLS VENDOR FOR BACK BOX LOCATION AND PATHWAY REQUIREMENTS. TYP OF 3.

FURNISH EXTERIOR RATED FIRE ALARM HORN WITH RED FINISH AND INSTALL ON SOFFIT.

ROUTE 12 STRAND SINGLE-MODE FIBER ABOVE CEILING FROM MDF TO AV RACK.

ROUTE 1"C WITH PULLCORD BELOW GRADE FROM CARD READER LOCATION TO STUB UP IN FURNITURE STORAGE. ROUTE CONDUIT FROM STUB UP TO ACCESSIBLE LOCATION ABOVE CEILING FOR CONNECTION TO ACP AND ACCESS CONTROLLED DOOR. COORDINATE WITH OWNER FOR FINAL CARD READER PEDESTAL LOCATION.

FIRE ALARM NOTE:

CONTRACTOR SHALL PROVIDE A FULLY FUNCTIONAL COMPLETE U.L. LISTED SIMPLEX FIRE ALARM SYSTEM TO MEET THE REQUIREMENTS OF THE NFPA 101, NFPA 72, ADA-AG, AND THE LOCAL AUTHORITY HAVING JURISDICTION. CONTRACTOR SHALL EMPLOY THE SERVICES OF A NICET LEVEL 4 TECHNICIAN TO LAYOUT ALL REQUIRED DEVICES AND COMPLY WITH ALL APPLICABLE SECTIONS OF NFPA 72.

SYSTEM SHALL INCLUDE VOICE EVACUATION, CONNECTION TO THE UNIVERSITY POLICE DEPARTMENT RADIO AND SHALL BE CONFIGURED TO INTERFACE WITH THE ENVIRONMENTAL MONITORING SYSTEM. SYSTEM FUNCTION BYPASS BUTTONS SHALL BE PROGRAMMED INTO PANEL PER ASU CAMPUS STANDARDS.

NETWORK CABLINGSCOPE NOTE:

DATA CABLING, NETWORK PORTS, NETWORK RACKS, PATCH PANELS, TERMINATION, TESTING, PATHWAYS AND BACKBOXES SHALL BE BY CONTRACTOR PER ASU-ITS COMPUTER NETWORK SPECIFICATIONS. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ASU-ITS COMPUTER NETWORK SPECIFICATIONS PRIOR TO BID AND INCLUDE ALL MATERIAL AND LABOR REQUIRED TO INSTALL NETWORK SYSTEMS ACCORDING TO CAMPUS SPECIFICATIONS. REFER TO SPECIFICATIONS FOR REQUIREMENTS. REFER TO FRONT-END DOCUMENTS FOR ASU-ITS CAMPUS STANDARDS

1 ELECTRICAL SYSTEMS PLAN

1/8" = 1'-0"

NORTH

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FENNELL PURIFOY ARCHITECTS + DAKE | WELLS architecture

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ELECTRICAL SYSTEMS PLAN
E5.0

KEYNOTES

D13F70	PROVIDE 100A/3P/NEMA 1 DISCONNCT WITH 70A FUSES.
D14F10	PROVIDE 100A/3P/NEMA 3R DISCONNECT WITH 100A FUSES.
D24F15	PROVIDE 200A/3P/NEMA 3R DISCONNECT WITH 150A FUSES.
D24F17	PROVIDE 200A/3P/NEMA 3R DISCONNECT WITH 175A FUSES.
D32N	PROVIDE 30A/1P/NF/NEMA 3R DISCONNECT.
D33F20	PROVIDE 30A/3P/NEMA 1 DISCONNCT WITH 20A FUSES.
D33F25	PROVIDE 30A/3P/NEMA 1 DISCONNCT WITH 25A FUSES.
D34F20	PROVIDE 30A/3P/NEMA 3R DISCONNECT WITH 20A FUSES.
D34N	PROVIDE 30A/3P/NF/NEMA 3R DISCONNECT.
D64F50	PROVIDE 60A/3P/NEMA 3R DISCONNECT WITH 50A FUSES.
P200	INDOOR UNIT RECEIVES POWER FROM OUTDOOR DSCU UNIT. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED PER MANUFACTURER INSTALLATION REQUIREMENTS.
P201	PROVIDE RELAY FOR CIRCUIT SUCH THAT EXHAUST FAN SHALL BE ENERGIZED AND CONTROLLED WITH LIGHTS IN THE AREA THEY SERVE.

ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER

JONESBORO, ARKANSAS

1 MECHANICAL POWER PLAN

1/8" = 1'-0"

NORTH

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05-18-2026

MECHANICAL POWER PLAN

E6.0

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FENNELL PURIFOY ARCHITECTS + DAKE | WELLS architecture

Switchboard: MSWBD-1

Location: MECH & ELEC 119
Supply From: MAIN-1
Mounting: Floor
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65kA
Mains Type: MLO
Mains Rating: 2,000 A
MCB Rating: 0 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	PANEL WP1	3	400 A	400 A	249.42 kVA	
2	PANEL WP2	3	400 A	400 A	249.42 kVA	
3	PANEL WP3	3	400 A	400 A	232.79 kVA	
4	PANEL WP4	3	400 A	400 A	249.42 kVA	
5	PANEL WP5	3	400 A	400 A	207.85 kVA	
6	PANEL WP6	3	400 A	400 A	207.85 kVA	
7	PANEL WP7	3	400 A	400 A	207.85 kVA	
8	XFMR TXW	3	250 A	150 A	21.90 kVA	
9	SPARE	1	400 A	400 A	0.00 kVA	
10	SPARE	1	250 A	200 A	0.00 kVA	
11	SPARE	1	250 A	200 A	0.00 kVA	
12						
13						
14						
15						
				Total Conn. Load:	1626.50 kVA	
				Total Amps:	1,956 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	3.18 kVA	125.00%	3.97 kVA		
LIGHTING	0.00 kVA	0.00%	0.00 kVA	**Total Conn. Load:**	1626.50 kVA
Other	0.00 kVA	0.00%	0.00 kVA	**Total Est. Demand:**	1363.48 kVA
RECEPTACLES	101.38 kVA	54.93%	55.69 kVA	**Total Conn. Current:**	1,956 A
CONTINUOUS	25.42 kVA	125.00%	31.78 kVA	**Total Est. Demand Current:**	1,640 A
WELDER	1496.52 kVA	85.00%	1272.04 kVA		

Notes:

Branch Panel: LP1

Location: ADVANCED MANUFACTURING 127
Supply From: TX1
Mounting: Surface
Enclosure: TYPE 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10kA
Panel Rating: 250 A MCB

Notes:

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1	RECEPTACLES GEN CLASS 109	20 A	1	0.90			1.20			1	20 A	HB16 SURFACE GRINDER	2
3	RECEPTACLES WELDING CLASS 111	20 A	1		0.90			0.90		1	20 A	RECEPTACLES GEN CLASS 109	4
5	RECEPTACLES Room 107, 127	20 A	1			0.90			1.08	1	20 A	RECEPTACLES Room 107, AAC01	6
7	RECEPTACLES Room 109, 108	20 A	1	1.08			0.36			1	20 A	RECEPTACLES GEN CLASS 109	8
9	RECEPTACLES Room AAC01, 104	20 A	1		1.08			0.72		1	20 A	RECEPTACLES GEN CLASS 107	10
11	RECEPTS ADVANCED MANUF. 127	20 A	1			0.90			1.08	1	20 A	CLASSROOM ROLLER SHADES	12
13	NETWORK SWITCH	20 A	1	0.16			1.00			1	20 A	CORD REEL (4)	14
15	CORD REEL (4)	20 A	1		1.00			1.00		1	20 A	CORD REEL (4)	16
17	CORD REEL (4)	20 A	1			1.00			1.00	1	20 A	CORD REEL (4)	18
19	CORD REEL (4)	20 A	1	1.00			1.00			1	20 A	CORD REEL (4)	20
21	CORD REEL (4)	20 A	1		1.00			0.00		2	20 A	SPARE	22
23	SPARE	20 A	1			0.00			0.00				24
25	SPARE	20 A	1	0.00			0.00			2	25 A	SPARE	26
27	SPARE	20 A	1		0.00			0.00					28
29	SPARE	20 A	1			0.00			0.00	2	30 A	SPARE	30
31	SPACE	--	1	--			0.00						32
33	SPACE	--	1		--			0.00		1	20 A	SPARE	34
35	SPACE	--	1			--			0.00	1	20 A	SPARE	36
37	SPACE	--	1	--			0.00			1	20 A	SPARE	38
39	SPACE	--	1		--			0.00		1	20 A	SPARE	40
41	SPACE	--	1			--			0.00	1	20 A	SPARE	42

Panel Totals

	PHASE A	PHASE B	PHASE C
Total Load:	6.70 kVA	6.60 kVA	5.96 kVA
Total Amps:	57 A	56 A	50 A
Total Conn. Load:	19.26 kVA		
Total Design Current:	68 A		

Notes:

Switchboard: MSWBD-2

Location: MECH & ELEC 119
Supply From: MAIN-2
Mounting: Floor
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65kA
Mains Type: MLO
Mains Rating: 2000 A
MCB Rating: 0 A

Notes:

Circuit Number	Circuit Description	Load	AMPS	Rating	Poles	Frame	Remarks
1	PANEL HP1	95.26 kVA	114.57 A	400 A	3	400 A	
2	PANEL HP2	74.09 kVA	89.12 A	400 A	3	400 A	
3	PANEL HP3	199.98 kVA	240.54 A	400 A	3	400 A	
4	XFMR TX4 (1)	27.82 kVA	33.46 A	150 A	3	250 A	
5	XFMR TX5 (1)	50.87 kVA	61.19 A	150 A	3	250 A	
6	XFMR TX6 (1)	86.77 kVA	104.37 A	225 A	3	250 A	
7	BUSWAY BD3 (1)	45.73 kVA	55.00 A	400 A	3	400 A	
8	DOAS -1	128.86 kVA	155.00 A	175 A	3	250 A	
9	DOAS -2	105.58 kVA	127.00 A	150 A	3	250 A	
10	RTU -1	106.41 kVA	128.00 A	150 A	3	250 A	
11	RTU -2	70.67 kVA	85.00 A	100 A	3	250 A	
12	AIR COMPRESSOR	37.30 kVA	44.86 A	100 A	3	125 A	
13	AIR COMPRESSOR	37.30 kVA	44.86 A	100 A	3	125 A	
14	SPARE	0.00 kVA	--	400 A	1	400 A	
15	SPARE	0.00 kVA	--	400 A	1	400 A	
16	SPARE	0.00 kVA	--	200 A	1	250 A	
17							
18							

Panel Totals

	Phase A	Phase B	Phase C
Total Load:	355.82 kVA	355.41 kVA	355.29 kVA
Total Amps:	1,285 A	1,283 A	1,283 A
Total Connected Load:	1066.52 kVA		
Total Connected Amps:	1,283 A		

Notes:

Branch Panel: LP2

Location: INDUSTRIAL MAINTENANCE 127
Supply From: TX2
Mounting: Surface
Enclosure: TYPE 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10kA
Panel Rating: 250 A MCB

Notes:

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1	RECEPTACLES COMPUTER LAB 105	20 A	1	0.72			0.72			1	20 A	RECEPTACLES COMPUTER LAB 105	2
3	RECEPTACLES COMPUTER LAB 105	20 A	1		0.72			0.72		1	20 A	RECEPTACLES COMPUTER LAB 105	4
5	RECEPTACLES COMPUTER LAB 105	20 A	1			0.72			0.54	1	20 A	RECEPTACLES COMPUTER LAB 105	6
7	RECEPTACLES COMPUTER LAB 105	20 A	1	0.72			0.72			1	20 A	RECEPTACLES COMPUTER LAB 105	8
9	RECEPTACLES COMPUTER LAB 105	20 A	1		0.72			0.72		1	20 A	RECEPTACLES COMPUTER LAB 105	10
11	RECEPTACLES COMPUTER LAB 105	20 A	1			0.72			0.72	1	20 A	RECEPTACLES Room 127, 101, 102	12
13	RECEPTACLES Room 103, 101, AAC01	20 A	1	0.72			0.72			1	20 A	RECEPTACLES COMPUTER LAB 105	14
15	DOOR OPERATOR VESTIBULE	20 A	1		1.20			0.36		1	20 A	RECEPTACLES LOBBY AAL01	16
17	DOOR OPERATOR VESTIBULE	20 A	1			1.20			1.50	1	20 A	MAGNETIC DOOR HOLDER	18
19	CORD REEL (4)	20 A	1	1.00			0.72			1	20 A	RECEPTACLES Room AAL01, AAV01	20
21	CORD REEL (4)	20 A	1		1.00			1.00		1	20 A	CORD REEL (4)	22
23	CORD REEL (4)	20 A	1			1.00			0.00				24
25	SPARE	20 A	2	0.00			0.00			3	30 A	SPARE	26
27					0.00			0.00					28
29	SPARE	20 A	3			0.00			--	1	--	SPACE	30
31				0.00	--			--		1	--	SPACE	32
33						0.00			--	1	--	SPACE	34
35	SPARE	20 A	1				0.00		--	1	--	SPACE	36
37	SPARE	20 A	1	0.00				--		1	--	SPACE	38
39	SPARE	20 A	1		0.00				--	1	--	SPACE	40
41	SPARE	20 A	1			0.00			--	1	--	SPACE	42

Panel Totals

	PHASE A	PHASE B	PHASE C
Total Load:	6.04 kVA	6.44 kVA	6.40 kVA
Total Amps:	50 A	54 A	54 A
Total Conn. Load:	18.88 kVA		
Total Design Current:	66 A		

Notes:

Branch Panel: HP1

Location: ADVANCED MANUFACTURING 127
Supply From: MSWBD-2
Mounting: Surface
Enclosure: TYPE 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22kA
Panel Rating: 400 A MLO

Notes:

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1				6.70			2.33			1	20 A	LIGHTING Room 109, 105, 107	2
3	TX1	150 A	3		6.60			0.89					4
5						5.96			0.89	3	20 A	HB10 JET MILL	6
7				0.89			0.89						8
9	HB9 ENCO MANUAL MILL #1	20 A	3		0.89			0.89					10
11						0.89			0.89	3	20 A	HB9 ENCO MANUAL MILL #1	12
13				18.29			0.89						14
15	AHU-2	70 A	3		18.29			1.33					16
17						18.29			1.33	3	20 A	10Ø -V28	18
19				1.33			1.33						20
21	10Ø -V27	20 A	3		1.33			1.00					22
23						1.33			1.00	3	20 A	10Ø -V26	24
25				0.00			1.00						26
27	SPARE	20 A	3		0.00			0.00		2	20 A	SPARE	28
29						0.00			0.00				30
31				0.00			0.00			1	20 A	SPARE	32
33	SPARE	30 A	3		0.00			0.00		1	20 A	SPARE	34
35						0.00			0.00	1	20 A	SPARE	36
37				0.00			--			1	--	SPACE	38
39	SPARE	50 A	3		0.00			--		1	--	SPACE	40
41						0.00			--	1	--	SPACE	42

Panel Totals

	PHASE A	PHASE B	PHASE C
Total Load:	33.47 kVA	31.22 kVA	30.58 kVA
Total Amps:	121 A	113 A	110 A
Total Conn. Load:	95.26 kVA		
Total Design Current:	144 A		

Notes:

Branch Panel: HP2

Location: INDUSTRIAL MAINTENANCE 127
Supply From: MSWBD-2
Mounting: Surface
Enclosure: TYPE 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22kA
Panel Rating: 400 A MLO

Notes:

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1				6.04			1.79			1	20 A	LTG Room 132, 131, 101, 103, 134, 102	2
3	TX2	150 A	3		6.44			0.28		1	20 A	LIGHTING CONTROLS NORTH	4
5						6.40			0.64	1	20 A	NORTH SITE LIGHTING	6
7				2.33			2.17						8
9	12Ø-V24a	20 A	3		2.33			2.17		3	20 A	12Ø-V25	10
11						2.33			2.17				12
13				1.50			5.33						14
15	10Ø -V23	20 A	3		1.50			5.33		3	30 A	16Ø -V22	16
17						1.50			5.33				18
19				1.33			1.33						20
21	10Ø -V20	20 A	3		1.33			1.33		3	20 A	10Ø -V21	22
23						1.33			1.33				24
25				1.66			1.66						26
27	HB35 ABB ROBOT-480V	20 A	3		1.66			1.66		3	20 A	HB35 ABB ROBOT-480V	28
29						1.66			1.66				30
31				0.00			0.18						32
33	SPARE	20 A	3		0.00			0.18		3	20 A	INDUSTRIAL MAINT. OH DOOR	34
35						0.00			0.18				36
37				0.00			0.00			2	20 A	SPARE	38
39	SPARE	30 A	3		0.00			0.00					40
41						0.00			0.00	2	30 A	SPARE	42
43				0.00			0.00						44
45	SPARE	25 A	3		0.00			--		1	--	SPACE	46
47						0.00			--	1	--	SPACE	48
49	SPARE	20 A	1	0.00			--			1	--	SPACE	50
51	SPARE	20 A	1		0.00			--		1	--	SPACE	52
53	SPARE	20 A	1			0.00			--	1	--	SPACE	54

Panel Totals

	PHASE A	PHASE B	PHASE C
Total Load:	25.32 kVA	24.22 kVA	24.55 kVA
Total Amps:	92 A	87 A	89 A
Total Conn. Load:	74.09 kVA		
Total Design Current:	112 A		

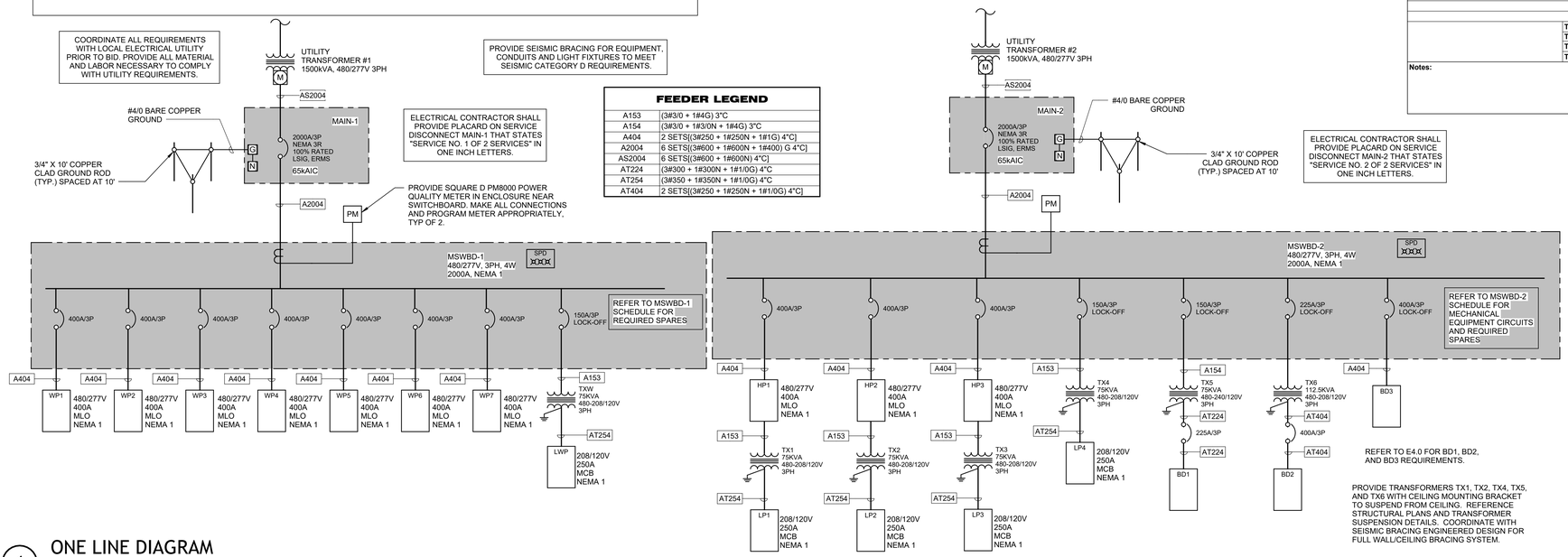
Notes:

COORDINATE ALL REQUIREMENTS WITH LOCAL ELECTRICAL UTILITY PRIOR TO BID. PROVIDE ALL MATERIAL AND LABOR NECESSARY TO COMPLY WITH UTILITY REQUIREMENTS.

PROVIDE SEISMIC BRACING FOR EQUIPMENT, CONDUITS AND LIGHT FIXTURES TO MEET SEISMIC CATEGORY D REQUIREMENTS.

FEEDER LEGEND

A153	(3#3/0 + 1#4G) 3"C
A154	(3#3/0 + 1#3/0N + 1#4G) 3"C
A404	2 SETS[(3#250 + 1#250N + 1#1G) 4"C]
A2004	6 SETS[(3#600 + 1#600N + 1#400) G 4"C]
AS2004	6 SETS[(3#600 + 1#600N) 4"C]
AT224	(3#300 + 1#300N + 1#1/0G) 4"C
AT254	(3#350 + 1#350N + 1#1/0G) 4"C
AT404	2 SETS[(3#250 + 1#250N + 1#1/0G) 4"C]



REFER TO E4.0 FOR BD1, BD2, AND BD3 REQUIREMENTS.

PROVIDE TRANSFORMERS TX1, TX2, TX4, TX5, AND TX6 WITH CEILING MOUNTING BRACKET TO SUSPEND FROM CEILING. REFERENCE STRUCTURAL PLANS AND TRANSFORMER SUSPENSION DETAILS. COORDINATE WITH SEISMIC BRACING ENGINEERED DESIGN FOR FULL WALL/CEILING BRACING SYSTEM.

PANELBOARD NOTES

(1) INSTALL LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE)

(2) INSTALL LOCKING DEVICE (LOCK-ON FOR CRITICAL LOAD).

(3) REFER TO SITE LIGHTING PLAN FOR WIRE SIZES.

(4) PROVIDE GFI CIRCUIT BREAKER OR INLINE GFI FOR PERSONNEL PROTECTION (5 mA).

(5) PROVIDE GFI CIRCUIT BREAKER OR INLINE GFI FOR EQUIPMENT PROTECTION (30 mA).

(6) PROVIDE U.L. LISTED OVERCURRENT DEVICE TO COORDINATE AND MAINTAIN MANUFACTURER'S SERIES RATED SYSTEM.

(7) EXISTING CIRCUIT TO REMAIN.

(8) EXISTING CIRCUIT BREAKER TO REMAIN. VERIFY CONDITION OF CIRCUIT BREAKER TO ENSURE THAT IT IS OPERATIONAL AND MEETS ALL U.L. RATINGS.

(9) TRACE EXISTING CIRCUIT, IDENTIFY LOAD AND PROVIDE TYPEWRITTEN PANELBOARD SCHEDULE AND PLACE ON INTERIOR OF PANELBOARD DOOR. IF CIRCUIT IS A "SPARE", REFER TO NOTE (8).

1 ONE LINE DIAGRAM
NOT TO SCALE

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

BROWN ENGINEERS, LLC No. 1323 MECHANICAL ENGINEER
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ELECTRICAL SCHEDULES AND ONE-LINE
E7.0

5/18/2026 1:04:40 PM

Branch Panel: LWP

Location: WELDING 121 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10kA
Supply From: TXW | **Phases:** 3 | **Panel Rating:** 250 A MCB
Mounting: Surface | **Wires:** 4
Enclosure: TYPE 1

Notes:

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1	WELDER BOOTH RECEPTS	20 A	1	0.72			0.72			1	20 A	WELDER BOOTH RECEPTS	2
3	WELDER BOOTH RECEPTS	20 A	1		0.72			0.72		1	20 A	RECEPTACLES WELDING 121	4
5	WELDER BOOTH RECEPTS	20 A	1			0.72			0.72	1	20 A	WELDER BOOTH RECEPTS	6
7	WELDER BOOTH RECEPTS	20 A	1	0.72			0.72			1	20 A	WELDER BOOTH RECEPTS	8
9	WELDER BOOTH RECEPTS	20 A	1		0.72			0.72		1	20 A	WELDER BOOTH RECEPTS	10
11	WELDER BOOTH RECEPTS	20 A	1			0.72			0.72	1	20 A	WELDER BOOTH RECEPTS	12
13	WELDER BOOTH RECEPTS	20 A	1	0.72			0.72			1	20 A	WELDER BOOTH RECEPTS	14
15	WELDER BOOTH RECEPTS	20 A	1		0.72			0.72		1	20 A	WELDER BOOTH RECEPTS	16
17	WELDER BOOTH RECEPTS	20 A	1			0.72			0.72	1	20 A	WELDER BOOTH RECEPTS	18
19	TOOL CHARGING	20 A	1	0.36			0.36			1	20 A	TOOL CHARGING	20
21	TOOL CHARGING	20 A	1		0.36			0.00		1	20 A	SPARE	22
23	SPARE (4)	20 A	1			0.00			0.90	1	20 A	RECEPTACLES Room 121	24
25	SPARE (4)	20 A	1	0.00			1.20			1	20 A	VERTICAL BAND-SAW	26
27	RECEPTACLES WELDING 121	20 A	1		0.54			0.36		1	20 A	PLASMA TABLE RECEPTACLES	28
29	WALL MOUNTED CORD REEL (4)	20 A	1			0.32			1.20	1	20 A	HORIZONTAL BAND-SAW	30
31	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	32
33	SPARE	30 A	1		0.00			1.18		1	20 A	SEF -1	34
35	SPARE	20 A	1			0.00			0.16	1	20 A	NETWORK SWITCH	36
37	SPARE	20 A	3	0.00			1.00			2	20 A	EH -1 (1)	38
39					0.00			1.00					40
41						0.00			0.00	1	30 A	SPARE	42
43	SPARE	20 A	2	0.00			--			1	--	SPACE	44
45					0.00			--		1	--	SPACE	46
47	SPARE	30 A	2			0.00			--	1	--	SPACE	48
49				0.00			--			1	--	SPACE	50
51	SPARE	20 A	1		0.00			--		1	--	SPACE	52
53	SPARE	20 A	1			0.00			--	1	--	SPACE	54
55	SPARE	20 A	1	0.00			--			1	--	SPACE	56

Panel Totals

	PHASE A	PHASE B	PHASE C
Total Load:	7.24 kVA	7.76 kVA	6.90 kVA
Total Amps:	61 A	65 A	58 A
Total Conn. Load:	21.90 kVA		
Total Design Current:	76 A		

Notes:

Branch Panel: WP3

Location: WELDING 121 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 42kA
Supply From: MSWBD-1 | **Phases:** 3 | **Panel Rating:** 400 A MLO
Mounting: Surface | **Wires:** 4
Enclosure: TYPE 1

Notes:

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1				8.31			13.86						2
3	HB3 IRON WORKER	120 A	3		8.31			13.86		3	50 A	HB1 WELDER	4
5						8.31			13.86				6
7				13.86			13.86						8
9	HB1 WELDER	50 A	3		13.86			13.86		3	50 A	HB1 WELDER	10
11						13.86			13.86				12
13				13.86			13.86						14
15	HB1 WELDER	50 A	3		13.86			13.86		3	50 A	HB1 WELDER	16
17						13.86			13.86				18
19				0.00			--			1	--	SPACE	20
21	SPARE	50 A	3		0.00			--		1	--	SPACE	22
23						0.00			--	1	--	SPACE	24
25				0.00			--			1	--	SPACE	26
27	SPARE	20 A	3		0.00			--		1	--	SPACE	28
29						0.00			--	1	--	SPACE	30

Panel Totals

	PHASE A	PHASE B	PHASE C
Total Load:	77.60 kVA	77.60 kVA	77.60 kVA
Total Amps:	280 A	280 A	280 A
Total Conn. Load:	232.79 kVA		
Total Design Current:	350 A		

Notes:

Branch Panel: WP6

Location: WELDING 121 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 42kA
Supply From: MSWBD-1 | **Phases:** 3 | **Panel Rating:** 400 A MLO
Mounting: Surface | **Wires:** 4
Enclosure: TYPE 1

Notes:

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1				13.86			13.86						2
3	HB1 WELDER	50 A	3		13.86			13.86		3	50 A	HB1 WELDER	4
5						13.86			13.86				6
7				13.86			13.86						8
9	HB1 WELDER	50 A	3		13.86			13.86		3	50 A	HB1 WELDER	10
11						13.86			13.86				12
13				13.86			--			1	--	SPACE	14
15	HB1 WELDER	50 A	3		13.86			--		1	--	SPACE	16
17						13.86			--	1	--	SPACE	18
19				0.00			--			1	--	SPACE	20
21	SPARE	50 A	3		0.00			--		1	--	SPACE	22
23						0.00			--	1	--	SPACE	24
25				0.00			--			1	--	SPACE	26
27	SPARE	70 A	3		0.00			--		1	--	SPACE	28
29						0.00			--	1	--	SPACE	30

Panel Totals

	PHASE A	PHASE B	PHASE C
Total Load:	69.28 kVA	69.28 kVA	69.28 kVA
Total Amps:	250 A	250 A	250 A
Total Conn. Load:	207.85 kVA		
Total Design Current:	313 A		

Notes:

Branch Panel: WP1

Location: WELDING 121 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 42kA
Supply From: MSWBD-1 | **Phases:** 3 | **Panel Rating:** 400 A MLO
Mounting: Surface | **Wires:** 4
Enclosure: TYPE 1

Notes:

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1				13.86			13.86						2
3	HB1 WELDER	50 A	3		13.86			13.86		3	50 A	HB1 WELDER	4
5						13.86			13.86				6
7				13.86			13.86						8
9	HB1 WELDER	50 A	3		13.86			13.86		3	50 A	HB1 WELDER	10
11						13.86			13.86				12
13				13.86			13.86						14
15	HB2 PLASMA TABLE	70 A	3		13.86			13.86		3	50 A	HB1 WELDER	16
17						13.86			13.86				18
19				0.00			--			1	--	SPACE	20
21	SPARE	50 A	3		0.00			--		1	--	SPACE	22
23						0.00			--	1	--	SPACE	24
25				0.00			--			1	--	SPACE	26
27	SPARE	30 A	3		0.00			--		1	--	SPACE	28
29						0.00			--	1	--	SPACE	30

Panel Totals

	PHASE A	PHASE B	PHASE C
Total Load:	83.14 kVA	83.14 kVA	83.14 kVA
Total Amps:	300 A	300 A	300 A
Total Conn. Load:	249.42 kVA		
Total Design Current:	375 A		

Notes:

Branch Panel: WP4

Location: WELDING 121 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 42kA
Supply From: MSWBD-1 | **Phases:** 3 | **Panel Rating:** 400 A MLO
Mounting: Surface | **Wires:** 4
Enclosure: TYPE 1

Notes:

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1				13.86			13.86						2
3	HB1 WELDER	50 A	3		13.86			13.86		3	50 A	HB1 WELDER	4
5						13.86			13.86				6
7				13.86			13.86						8
9	HB1 WELDER	50 A	3		13.86			13.86		3	50 A	HB1 WELDER	10
11						13.86			13.86				12
13				13.86			13.86						14
15	HB1 WELDER	50 A	3		13.86			13.86		3	50 A	HB1 WELDER	16
17						13.86			13.86				18
19				0.00			--			1	--	SPACE	20
21	SPARE	50 A	3		0.00			--		1	--	SPACE	22
23						0.00			--	1	--	SPACE	24
25				0.00			--			1	--	SPACE	26
27	SPARE	50 A	3		0.00			--		1	--	SPACE	28
29						0.00			--	1	--	SPACE	30

Panel Totals

	PHASE A	PHASE B	PHASE C
Total Load:	83.14 kVA	83.14 kVA	83.14 kVA
Total Amps:	300 A	300 A	300 A
Total Conn. Load:	249.42 kVA		
Total Design Current:	375 A		

Notes:

Branch Panel: WP7

Location: WELDING 121 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 42kA
Supply From: MSWBD-1 | **Phases:** 3 | **Panel Rating:** 400 A MLO
Mounting: Surface | **Wires:** 4
Enclosure: TYPE 1

Notes:

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1				13.86			13.86						2
3	HB1 WELDER	50 A	3		13.86			13.86		3	50 A	HB1 WELDER	4
5						13.86			13.86				6
7				13.86			13.86						8
9	HB1 WELDER	50 A	3		13.86			13.86		3	50 A	HB1 WELDER	10
11						13.86			13.86				12
13				13.86			--			1	--	SPACE	14
15	HB1 WELDER	50 A	3		13.86			--		1	--	SPACE	16
17						13.86			--	1	--	SPACE	18
19				0.00			--			1	--	SPACE	20
21	SPARE	50 A	3		0.00			--		1	--	SPACE	22
23						0.00			--	1	--	SPACE	24
25				0.00			--			1	--	SPACE	26
27	SPARE	70 A	3		0.00			--		1	--	SPACE	28
29						0.00			--	1	--	SPACE	30

Panel Totals

	PHASE A	PHASE B	PHASE C
Total Load:	69.28 kVA	69.28 kVA	69.28 kVA
Total Amps:	250 A	250 A	250 A
Total Conn. Load:	207.85 kVA		
Total Design Current:	313 A		

Notes:

Branch Panel: WP2

Location: WELDING 121 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 42kA
Supply From: MSWBD-1 | **Phases:** 3 | **Panel Rating:** 400 A MLO
Mounting: Surface | **Wires:** 4
Enclosure: TYPE 1

Notes:

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1				13.86			13.86						2
3	HB1 WELDER	50 A	3		13.86			13.86		3	50 A	HB1 WELDER	4
5						13.86			13.86				6
7				13.86			13.86						8
9	HB1 WELDER	50 A	3		13.86			13.86		3	50 A	HB1 WELDER	10
11						13.86			13.86				12
13				13.86			13.86						14
15	HB2 PLASMA TABLE	70 A	3		13.86			13.86		3	50 A	HB1 WELDER	16
17						13.86			13.86				18
19				0.00			--			1	--	SPACE	20
21	SPARE	50 A	3		0.00			--		1	--	SPACE	22
23						0.00			--	1	--	SPACE	24
25				0.00			--			1	--	SPACE	26
27	SPARE	40 A	3		0.00			--		1	--	SPACE	28
29						0.00			--	1	--	SPACE	30

Panel Totals

	PHASE A	PHASE B	PHASE C
Total Load:	83.14 kVA	83.14 kVA	83.14 kVA
Total Amps:	300 A	300 A	300 A
Total Conn. Load:	249.42 kVA		
Total Design Current:	375 A		

Notes:

Branch Panel: WP5

Location: WELDING 121 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 42kA
Supply From: MSWBD-1 | **Phases:** 3 | **Panel Rating:** 400 A MLO
Mounting: Surface | **Wires:** 4
Enclosure: TYPE 1

Notes:

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1				13.86			13.86						2
3	HB1 WELDER	50 A	3		13.86			13.86		3	50 A	HB1 WELDER	4
5						13.86			13.86				6
7				13.86			13.86						8
9	HB1 WELDER	50 A	3		13.86			13.86		3	50 A	HB1 WELDER	10
11						13.86			13.86				12
13				13.86			--			1	--	SPACE	14
15	HB1 WELDER	50 A	3		13.86			--		1	--	SPACE	16
17						13.86			--	1	--	SPACE	18
19				0.00			--			1	--	SPACE	20
21	SPARE	120 A	3		0.00			--		1	--	SPACE	22
23						0.00			--	1	--	SPACE	24
25				0.00			--			1	--	SPACE	26
27	SPARE	50 A	3		0.00			--		1	--	SPACE	28
29						0.00			--	1	--	SPACE	30

Panel Totals

	PHASE A	PHASE B	PHASE C
Total Load:	69.28 kVA	69.28 kVA	69.28 kVA
Total Amps:	250 A	250 A	250 A
Total Conn. Load:	207.85 kVA		
Total Design Current:	313 A		

Notes:

PANELBOARD NOTES

(1) INSTALL LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE)

(2) INSTALL LOCKING DEVICE (LOCK-ON FOR CRITICAL LOAD).

(3) REFER TO SITE LIGHTING PLAN FOR WIRE SIZES.

(4) PROVIDE GFI CIRCUIT BREAKER OR INLINE GFI FOR PERSONNEL PROTECTION (5 mA).

(5) PROVIDE GFI CIRCUIT BREAKER OR INLINE GFI FOR EQUIPMENT PROTECTION (30 mA).

(6) PROVIDE U.L. LISTED OVERCURRENT DEVICE TO COORDINATE AND MAINTAIN MANUFACTURER'S SERIES RATED SYSTEM.

(7) EXISTING CIRCUIT TO REMAIN.

(8) EXISTING CIRCUIT BREAKER TO REMAIN. VERIFY CONDITION OF CIRCUIT BREAKER TO ENSURE THAT IT IS OPERATIONAL AND MEETS ALL U.L. RATINGS.

(9) TRACE EXISTING CIRCUIT, IDENTIFY LOAD AND PROVIDE TYPEWRITTEN PANELBOARD SCHEDULE AND PLACE ON INTERIOR OF PANELBOARD DOOR. IF CIRCUIT IS A "SPARE", REFER TO NOTE (8).

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REVISIONS:

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ELECTRICAL SCHEDULES II
E7.1

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STATE OF ARKANSAS CERTIFICATE OF AUTHORIZATION BROWN ENGINEERS LLC No. 1323 EXPIRES: 6/30/2027
STATE OF ARKANSAS REGISTERED LICENSED PROFESSIONAL ENGINEER No. 16666 JOSEPH OSBORN OSBORN

5/15/2026 1:54:48 PM

Branch Panel: HP3

Location: MECH & ELEC 119
Supply From: MSWBD-2
Mounting: Surface
Enclosure: TYPE 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65kA
Panel Rating: 400 A MLO

Notes:

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1				9.07			1.37			1	20 A	WEST EXTERIOR LIGHTING	2
3	TX3	150 A	3		8.17			1.94		1	20 A	SOUTH CLASSROOM & OFFICE LTG	4
5						9.28			2.05	1	20 A	LIGHTING Room AAL01, AAC01, BBC01,...	6
7	WELDING BOOTH LIGHTS	20 A	1	0.63			0.66						8
9	WELDING HIGH BAY LIGHTING	20 A	1		2.30			0.66		3	20 A	AIR DRYER	10
11	SITE LIGHTING	20 A	1			1.13			0.66				12
13	LIGHTING ADVANCED MANUF.	20 A	1	1.73			0.20			1	20 A	EXTERIOR SIGNAGE LIGHTING	14
15	LIGHTING INDUSTRIAL MAINT.	20 A	1		1.73			1.73		1	20 A	LIGHTING INDUSTRIAL MAINT.	16
17	EAST EXTERIOR LIGHTING	20 A	1			1.75			2.40	1	20 A	LIGHTING	18
19				1.33			1.33						20
21	WEF -1	20 A	3		1.33			1.33		3	20 A	WEF -2	22
23						1.33			1.33				24
25				1.33			1.33						26
27	WEF -3	20 A	3		1.33			1.33		3	20 A	WEF -4	28
29						1.33			1.33				30
31				1.33			1.33						32
33	WEF -5	20 A	3		1.33			1.33		3	20 A	WEF -6	34
35						1.33			1.33				36
37				10.20			18.29						38
39	ZU -1	50 A	3		10.20			18.29		3	70 A	AHU-1	40
41						10.20			18.29				42
43				10.20			2.83						44
45	CU -2	50 A	3		10.20			2.83		3	20 A	14Ø-V24b	46
47						10.20			2.83				48
49				1.00			0.84			1	20 A	LIGHTING CONTROL DEVICES SOUTH	50
51	8Ø -V29	20 A	3		1.00			0.00					52
53						1.00			0.00	3	70 A	SPARE	54
55				0.18			0.00						56
57	WELDING OH DOOR	20 A	3		0.18			0.00		1	20 A	SPARE	58
59						0.18			0.00	1	20 A	SPARE	60
61				0.18			0.00			1	20 A	SPARE	62
63	SECURITY GRILLE	20 A	3		0.18			0.00		1	20 A	SPARE	64
65						0.18			0.00	1	20 A	SPARE	66
67				0.00			--			1	--	SPACE	68
69	SPARE	30 A	3		0.00			--		1	--	SPACE	70
71						0.00			--	1	--	SPACE	72
73				0.00			--			1	--	SPACE	74
75	SPARE	20 A	3		0.00			--		1	--	SPACE	76
77						0.00			--	1	--	SPACE	78
79				0.00			--			1	--	SPACE	80
81	SPARE	20 A	3		0.00			--		1	--	SPACE	82
83						0.00			--	1	--	SPACE	84

Panel Totals

	PHASE A	PHASE B	PHASE C
Total Load:	65.23 kVA	66.88 kVA	67.88 kVA
Total Amps:	235 A	242 A	246 A
Total Conn. Load:	199.99 kVA		
Total Design Current:	302 A		

Notes:

Branch Panel: BD2

Location:
Supply From: TX6
Mounting: Surface
Enclosure: 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22kA
Panel Rating: 400 A MLO

Notes:

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1				1.20			4.80						2
3	HB19 MOTOR CONTROL TRAINER	20 A	3		1.20			4.80		3	50 A	HB7 HAAS MINI MILL #2 (4)	4
5						1.20			4.80				6
7				1.20			1.20						8
9	HB19 MOTOR CONTROL TRAINER	20 A	3		1.20			1.20		3	20 A	HB30 TEMP PROCESS TRAINER (4)	10
11						1.20			1.20				12
13				0.60			1.20						14
15	HB28 AC DRIVE TRAINER #2	20 A	3		0.60			1.20		3	20 A	HB19 MOTOR CONTROL TRAINER	16
17						0.60			1.20				18
19				0.60			1.20						20
21	HB28 AC DRIVE TRAINER #2	20 A	3		0.60			1.20		3	20 A	HB19 MOTOR CONTROL TRAINER	22
23						0.60			1.20				24
25				1.20			1.20						26
27	HB20 WIRING TRAINER	20 A	3		1.20			1.20		3	20 A	HB20 WIRING TRAINER	28
29						1.20			1.20				30
31	HB29 LEVEL&FLOW PROCESS TRAINER	20 A	1	0.84			1.54			1	20 A	HB22 HYDRAULIC MAINT. TRAINER	32
33	HB21 HYDRAULIC TRAINER	20 A	1		1.54			1.54		1	20 A	HB21 HYDRAULIC TRAINER	34
35	HB26 SKILL BOSS	20 A	1			0.60			0.36	1	20 A	RECEPTACLES INDUSTRIAL MAINT.	36
37	HB24 MECHANICAL DRIVES	20 A	1	0.60			0.60			1	20 A	HB24 MECHANICAL DRIVES	38
39	HB23 HYDRAULIC T/S TRAINER	20 A	1		1.54			0.60		1	20 A	HB25 PLC TRAINER	40
41	HB25 PLC TRAINER	20 A	1			0.60			1.20	1	20 A	HB18 DRILL PRESS	42
43	HB25 PLC TRAINER	20 A	1	0.60			1.20			1	20 A	HB17 BENCH GRINDER	44
45	HB25 PLC TRAINER	20 A	1		0.60			0.60		1	20 A	HB25 PLC TRAINER	46
47	HB47 REDWOLF ROBOT	20 A	1			0.60			0.36	1	20 A	RECEPTACLES INDUSTRIAL MAINT.	48
49	HB47 REDWOLF ROBOT	20 A	1	0.60			0.60			1	20 A	HB26 SKILL BOSS	50
51	HB47 REDWOLF ROBOT	20 A	1		0.60			0.60		1	20 A	HB25 PLC TRAINER	52
53	HB47 REDWOLF ROBOT	20 A	1			0.60			1.20	1	20 A	HB27 AC DRIVE TRAINER #1	54
55	HB31 PRESSURE PROCESS TRAINER	20 A	1	0.84			0.60			1	20 A	HB47 REDWOLF ROBOT	56
57	HB45 TABLETOP MINI MILL	20 A	1		1.90			0.60		1	20 A	HB47 REDWOLF ROBOT	58
59	HB32 ANALYTICAL PROCESS TRAINER	20 A	1			0.84			0.36	1	20 A	LATHE RECEPTACLES	60
61	HB33 INDUS. ELEC STATION #1	20 A	1	0.60			0.60			1	20 A	HB33 INDUS. ELEC STATION #2	62
63	HB33 INDUS. ELEC STATION #3	20 A	1		0.60			0.60		1	20 A	HB33 INDUS. ELEC STATION #4	64
65	HB40 3D PRINTER	20 A	1			1.90			1.90	1	20 A	HB40 3D PRINTER	66
67	HB38 PNEUMATIC T/S TRAINER	20 A	1	0.60			0.60			1	20 A	HB37 PNEUMATIC TRAINER	68
69	HB5 HORIZONTAL BAND-SAW	20 A	1		1.80			1.90		1	20 A	HB46 HAAS TABLETOP MINI LATHE	70
71	HB46 HAAS TABLETOP MINI LATHE	20 A	1			1.90			1.90	1	20 A	HB45 TABLETOP MINI MILL	72
73	HB46 HAAS TABLETOP MINI LATHE	20 A	1	1.90			1.90			1	20 A	HB45 TABLETOP MINI MILL	74
75	SPARE	20 A	1		0.00			0.00		2	20 A	SPARE	76
77	SPARE	20 A	1			0.00			0.00				78
79	SPARE	20 A	1	0.00			0.00						80
81	SPARE	20 A	1		0.00			0.00		3	20 A	SPARE	82
83	SPARE	20 A	1			0.00			0.00				84

Panel Totals

	PHASE A	PHASE B	PHASE C
Total Load:	28.62 kVA	29.42 kVA	28.72 kVA
Total Amps:	239 A	245 A	239 A
Total Conn. Load:	86.77 kVA		
Total Design Current:	301 A		

Notes:

Branch Panel: BD1

Location:
Supply From: TX5
Mounting: Surface
Enclosure: 1

Volts: 120/240 Delta
Phases: 3
Wires: 4

A.I.C. Rating: 10kA
Panel Rating: 225 A MLO

Notes:

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1				3.18			0.00						2
3	HB6 HAAS MINI MILL #1 (4)	40 A	3		3.18			0.00		3	20 A	SPARE	4
5						3.18			0.00				6
7				4.00			0.00						8
9	HB43 FIBER LASER CUTTER	50 A	3		4.00			0.00		3	20 A	SPARE	10
11						4.00			0.00				12
13				5.33			0.00						14
15	HB44 CNC BRAKE PRESS	50 A	3		5.33			0.00		3	30 A	SPARE	16
17						5.33			0.00				18
19				4.45			0.00						20
21	HB8 HAAS ST 10 LATHE (4)	50 A	3		4.45			0.00		3	40 A	SPARE	22
23						4.45			0.00				24
25				0.00			0.00						26
27	SPARE	40 A	3		0.00			0.00		3	45 A	SPARE	28
29						0.00			0.00				30
31				0.00			0.00						32
33	SPARE (4)	50 A	3		0.00			0.00		3	60 A	SPARE	34
35						0.00			0.00				36
37				0.00			0.00						38
39	SPARE	50 A	3		0.00			0.00		3	75 A	SPARE	40
41						0.00			0.00				42

Panel Totals

	PHASE A	PHASE B	PHASE C
Total Load:	16.96 kVA	16.96 kVA	16.96 kVA
Total Amps:	141 A	141 A	141 A
Total Conn. Load:	50.87 kVA		
Total Design Current:	177 A		

Notes:

Branch Panel: BD3

Location:
Supply From: MSWBD-2
Mounting: Surface
Enclosure: 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42kA
Panel Rating: 400 A MLO

Notes:

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1				5.54			0.00						2
3	HB4 VERTICAL BANDSAW	30 A	3		5.54			0.00		3	60 A	SPARE	4
5						5.54			0.00				6
7				5.54			0.00						8
9	JET LATHE 1440 ZX	30 A	3		5.54			0.00		3	50 A	SPARE	10
11						5.54			0.00				12
13				2.77			0.00						14
15	HB11 JET LATHE 1440 W-3	20 A	3		2.77			0.00		3	75 A	SPARE	16
17						2.77			0.00				18
19				1.39			0.00						20
21	HB13 JET LATHE 1340 A	20 A	3		1.39			0.00		3	25 A	SPARE	22
23						1.39			0.00				24
25				0.00			0.00						26
27	SPARE	20 A	3		0.00			0.00		3	45 A	SPARE	28
29						0.00			0.00				30
31				0.00			0.00						32
33	SPARE	20 A	3		0.00			0.00		3	40 A	SPARE	34
35						0.00			0.00				36
37				0.00			0.00						38
39	SPARE	30 A	3		0.00			0.00		3	30 A	SPARE	40
41						0.00			0.00				42

Panel Totals

	PHASE A	PHASE B	PHASE C
Total Load:	15.24 kVA	15.24 kVA	15.24 kVA
Total Amps:	55 A	55 A	55 A
Total Conn. Load:	45.73 kVA		
Total Design Current:	69 A		

Notes:

Branch Panel: LP3

Location: MECH & ELEC 119
Supply From: TX3
Mounting: Surface
Enclosure: TYPE 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10kA
Panel Rating: 250 A MCB

Notes:

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1	RECEPTS COVERED EXT. AND RM 114	20 A	1	1.08			0.36			1	20 A	RECEPTACLES IT 117	2
3	RECEPTACLES IT 117	20 A	1		0.36			0.36		1	20 A	RECEPTACLES IT 117	4
5	RECEPTACLES IT 117	20 A	1			0.36			0.72	1	20 A	RECEPTACLES Room BBC01, 119, 117	6
7	ACP	20 A	1	0.06			0.06			1	20 A	FACP (2)	8
9	RECEPTACLES IT 117	20 A	1		0.36			0.06		1	20 A	LCP	10
11	RECEPTACLES ADVISING / CONF 115	20 A	1			0.90			1.08	1	20 A	RECEPTACLES Room 112, BBC01, AAC01	12
13	BEVERAGE VENDING	20 A	1	0.18			0.18			1	20 A	SNACKS VENDING	14
15	SNACKS VENDING	20 A	1		0.18			0.18		1	20 A	MICROWAVE	16
17	MICROWAVE	20 A	1			0.18			1.08	1	20 A	RECEPTACLES Room AAC01, 111, 113	18
19	COPIER LOCATION	20 A	1	0.18			0.72			1	20 A	RECEPTACLES FACULTY OFFICE 118	20
21	RECEPTACLES PRIVATE OFFICE 118B	20 A	1		1.08			0.18		1	20 A	COPIER LOCAITON	22
23	RECEPTACLES FACULTY OFFICE 118	20 A	1			0.90			0.90	1	20 A	RECEPTACLES FACULTY OFFICE 118	24
25	WH-1 STUDENT SPACE 113 (4)	30 A	1	2.80			1.08			1	20 A	RECEPTACLES PRIVATE OFFICE 118A	26
27	RECEPTACLES Room 111, 121A, 121B	20 A	1		0.90			0.16		1	20 A	NETWORK SWITCH	28
29	CEF-1 & CEF-2	20 A	1			0.06			0.90	1	20 A	RECEPTACLES Room 111	30
31	RECIRC PUMP	20 A	1	0.18			2.18			2	30 A	DSCU -1	32
33	DSCU -2	30 A	2		2.18			2.18					34
35						2.18			0.18	1	20 A	WATER HEATER	36
37				0.00			0.18			1	20 A	WATER HEATER	38
39	SPARE	20 A	3		0.00			0.18		1	20 A	WATER HEATER	40
41						0.00			0.18	1	20 A	WATER HEATER	42
43	SPARE	30 A	2	0.00			0.18			1	20 A	IRRIGATION CONTROLLER	44
45					0.00			0.25		1	15 A	FP AC (2)	46
47	SPARE	30 A	2			0.00			0.00	1	30 A	SPARE	48
49				0.00			0.00			1	20 A	SPARE	50
51	SPARE	20 A	2		0.00			0.00		1	20 A	SPARE	52
53						0.00			0.00	1	20 A	SPARE	54
55	SPACE	--	1	--			0.00			1	20 A	SPARE	56
57	SPACE	--	1		--			--		1	--	SPACE	58
59	SPACE	--	1			--			--	1	--	SPACE	60
61	SPACE	--	1	--			--			1	--	SPACE	62
63	SPACE	--	1		--			--		1	--	SPACE	64
65	SPACE	--	1			--			--	1	--	SPACE	66

Panel Totals

	PHASE A	PHASE B	PHASE C
Total Load:	9.07 kVA	8.17 kVA	9.28 kVA
Total Amps:	77 A	68 A	79 A
Total Conn. Load:	26.52 kVA		
Total Design Current:	93 A		

Notes:

Branch Panel: LP4

Location: INDUSTRIAL MAINTENANCE 127
Supply From: TX4
Mounting: Surface
Enclosure: TYPE 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10kA
Panel Rating: 250 A MCB

Notes:

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1	RECEPTACLES Room 131, AAC01, 132	20 A	1	1.26			0.72			1	20 A	RECEPTACLES	2
3	ICE MACHINE	20 A	1		0.18			2.40		1	30 A	WH-1 COMMUNITY RM (4)	4
5	EMERGENCY TOWER (2)	20 A	1			0.30			1.08	1	20 A	RECEPTACLES CONFERENCE ROOM 134	6
7	UC FRIDGE	20 A	1	0.18			0.18			1	20 A	COFFEE MAKER	8
9	RECEPTACLES COMMUNITY ROOM 131	20 A	1		0.18			0.72		1	20 A	RECEPTACLES Room 131, 134	10
11	RECEPTACLES Room 131, 127	20 A	1			0.72			1.08	1	20 A	RECEPTACLES COMMUNITY ROOM 131	12
13	RECEPTACLES COMMUNITY ROOM 131	20 A	1	1.08			0.72			1	20 A	RECEPTACLES COMMUNITY ROOM 131	14
15	RECEPTACLES INDUSTRIAL...	20 A	1		0.72			0.00		1	20 A	SPARE	16
17	SPARE	20 A	1			0.00			0.72	1	20 A	ROOFTOP RECEPTACLES	18
19	HB36 OPEN SOURCE ROBOT	20 A	1	0.60			1.00			1	20 A	CORD REEL (4)	20
21	HB35 ABB ROBOT-208v	20 A	3		1.66			0.32		1	20 A	WALL MOUNTED CORD REEL (4)	22
23						1.66			1.00	1	20 A	CORD REEL (4)	24
25				1.66			0.60			1	20 A	HB34 FANUC ROBOT	26
27	CORD REEL (4)	20 A	1		1.00			1.00		1	20 A	CORD REEL (4)	28
29	DATA RACK COMMUNITY ROOM 131	20 A	1			0.36			0.36	1	20 A	DATA RACK COMMUNITY ROOM 131	30
31	RECEPTACLES COMMUNITY ROOM 131	20 A	1	0.18			0.18			1	20 A	RECEPTACLES COMMUNITY ROOM 131	32
33	RECEPTACLES COMMUNITY ROOM 131	20 A	1		0.18			0.53		1	20 A	RREF -1	34
35	NETWORK SWITCH	20 A	1			0.16			1.92	1	25 A	SEF -2	36
37	HB34 FANUC ROBOT	20 A	1	0.60			0.00			1	20 A	SPARE	38
39	HB34 FANUC ROBOT	20 A	1		0.60			0.00		1	20 A	SPARE	40
41	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	42
43	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	44
45	SPARE	20 A	1		0.00			0.00		2	30 A	SPARE	46
47	SPARE	20 A	1			0.00			0.00				48
49	SPARE	20 A	3	0.00			0.00			2	20 A	SPARE	50
51					0.00			0.00					52
53						0.00			0.00	1	30 A	SPARE	54
55	SPARE	20 A	1	0.00			--			1	--	SPACE	56
57	SPARE	20 A	1		0.00			--		1	--	SPACE	58
59	SPARE	20 A	1			0.00			--	1	--	SPACE	60
61	SPARE	20 A	1	0.00			--			1	--	SPACE	62
63	SPARE	20 A	1		0.00			--		1	--	SPACE	64
65	SPARE	20 A	1			0.00			--	1	--	SPACE	66

Panel Totals

	PHASE A	PHASE B	PHASE C
Total Load:	8.96 kVA	9.49 kVA	9.36 kVA
Total Amps:	75 A	80 A	79 A
Total Conn. Load:	27.82 kVA		
Total Design Current:	97 A		

Notes:

PANELBOARD NOTES

(1) INSTALL LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE)

(2) INSTALL LOCKING DEVICE (LOCK-ON FOR CRITICAL LOAD).

(3) REFER TO SITE LIGHTING PLAN FOR WIRE SIZES.

(4) PROVIDE GFI CIRCUIT BREAKER OR INLINE GFI FOR PERSONNEL PROTECTION (5 mA).

(5) PROVIDE GFI CIRCUIT BREAKER OR INLINE GFI FOR EQUIPMENT PROTECTION (30 mA).

(6) PROVIDE U.L. LISTED OVERCURRENT DEVICE TO COORDINATE AND MAINTAIN MANUFACTURER'S SERIES RATED SYSTEM.

(7) EXISTING CIRCUIT TO REMAIN.

(8) EXISTING CIRCUIT BREAKER TO REMAIN. VERIFY CONDITION OF CIRCUIT BREAKER TO ENSURE THAT IT IS OPERATIONAL AND MEETS ALL U.L. RATINGS.

(9) TRACE EXISTING CIRCUIT, IDENTIFY LOAD AND PROVIDE TYPEWRITTEN PANELBOARD SCHEDULE AND PLACE ON INTERIOR OF PANELBOARD DOOR. IF CIRCUIT IS A "SPARE", REFER TO NOTE (8).

BUSWAY SCHEDULE NOTE:

BUSWAY BD1, BD2, AND BD3 ARE BUSWAYS AS SPECIFIED ON E4.0. THE SCHEDULES HERE ARE INCLUDED TO INDICATE THE CIRCUIT BREAKER RATING AND LOADS FOR EACH CIRCUIT CONNECTED TO EACH BUSWAY. PROVIDE PLUG-IN UNITS FOR EACH BUSWAY AS INDICATED IN THE PANEL SCHEDULE. SPARE PLUG-IN UNITS SHALL BE PROVIDED TO OWNER FOR STORAGE FOR FUTURE. DO NOT INSTALL SPARE PLUG-IN UNITS IN BUSWAY.

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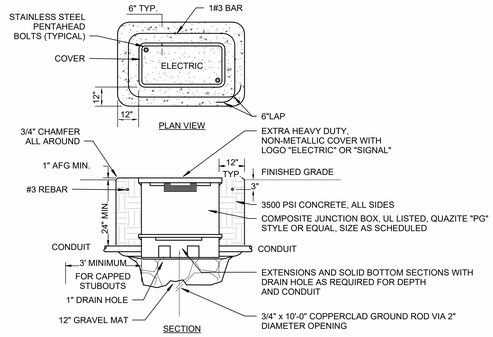
100% CONSTRUCTION DOCUMENTS
05-18-2026

ELECTRICAL SCHEDULES III
E7.2

5/18/2026 4:04:38 PM

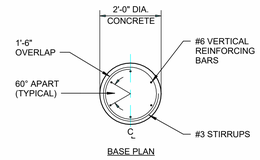


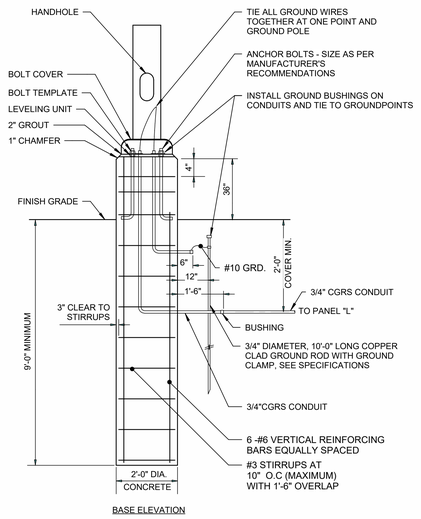
NOTES:

1. HANDHOLE AND EXTRA HEAVY-DUTY COVER SHALL BE DESIGNED FOR A TEST LOAD OF 33,750 LBS AND A DESIGN LOAD OF 22,500 LBS.
2. PROVIDE HANDHOLE WITH 2-2"C STUBOUTS IN EACH FACE, CAPPED WATERTIGHT.
3. HANDHOLE INTERIOR DIMENSIONS SHALL BE 30"L x 17"W x 28"D.
4. PROVIDE MINIMUM 3' SLACK CABLE LOOP FOR EACH CABLE.
5. COLOR CODE, TAG AND IDENTIFY ALL CABLES IN HANDHOLE.
6. EXACT LOCATION OF EACH HANDHOLE SHALL BE APPROVED BY THE OWNER AND ENGINEER.

1 HANDHOLE DETAIL

NOT TO SCALE



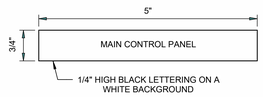


NOTES:

1. VERIFY BOLT CIRCLE AND MOUNTING WITH MANUFACTURER.
2. WHEN POURING CONCRETE DO NOT DROP CONCRETE THROUGH WATER IF WATER IS PRESENT IN HOLE.

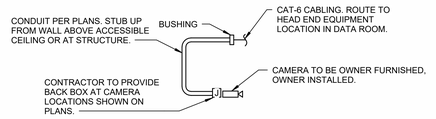
2 LIGHT POLE BASE DETAILS

NOT TO SCALE



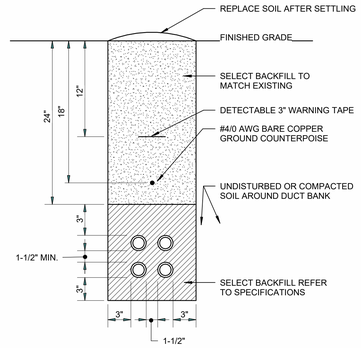
3 NAMEPLATE DETAIL

NOT TO SCALE



4 CAMERA LOCATION DETAIL

NOT TO SCALE

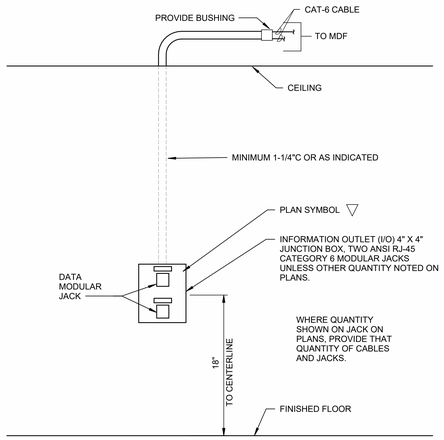


ELECTRICAL DUCT NOTES:

1. CONTRACTOR SHALL STAKE THE DUCT INSTALLATION IN PLAN AND ELEVATION FOR NEW ELECTRICAL DUCTS TO AVOID EXISTING UTILITIES.
2. CONTRACTOR SHALL ADJUST THE DEPTH OF THE ELECTRICAL DUCTS AS REQUIRED TO MAINTAIN THE MINIMUM COVER REQUIREMENT INDICATED AND AVOID EXISTING UTILITIES.
3. SIMILAR CONSTRUCTION FOR OTHER DUCT SIZES. SEE DUCT BANK SCHEDULE FOR QUANTITY AND SIZES.
4. INSTALL DUCT CONDUIT SUPPORTS AT 5'-0" O.C. MAXIMUM SPACING (TYPICAL ALL DUCTS).
5. OFFSETS AND BENDS OVER 10 DEGREES AND ELBOWS IN PVC CONDUIT RUNS SHALL BE GALVANIZED RIGID STEEL CONDUIT.
6. NO PVC SHALL EMERGE FROM THE GROUND OR CONCRETE SLAB OR ENCASEMENT. PVC SHALL CONVERT TO GALVANIZED RIGID STEEL CONDUIT PRIOR TO ITS EMERGENCE.
7. INSTALL GROUND RODS AT ENDS OF ELECTRICAL DUCT OR CONNECT TO GROUND RING.
8. INSTALL CONDUCTORS AND CABLES AS NOTED ON DRAWING. INSTALL PULLWIRE IN ALL SPARE DUCTS.
9. MINIMUM COVER REQUIREMENT FOR DUCT BANKS UNDER ROADS, DRIVEWAYS AND PARKING LOTS SHALL BE 24" UNLESS OTHERWISE NOTED.
10. MINIMUM COVER REQUIREMENTS FOR ELECTRICAL SECONDARY SERVICE DUCT BANKS SHALL BE 30".
11. MINIMUM COVER REQUIREMENTS FOR ELECTRICAL PRIMARY SERVICE DUCT BANKS, MAIN-1, MAIN-2, MSWBD-1, AND MSWBD-2 FEEDERS SHALL BE 36".

5 TRENCH DETAIL

NOT TO SCALE

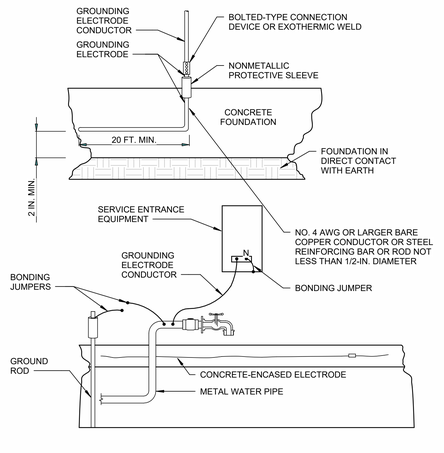


NOTES:

1. FLUSH MOUNTED INFORMATION OUTLET: 1 BOX, 2 JACKS, 2 CABLES, 1 CONDUIT UNLESS OTHER QUANTITY NOTED ON PLANS. PER INFORMATION OUTLET. ROUTE UP THROUGH WALL AND STUB ABOVE CEILING. CAP, TAG, AND IDENTIFY ALL CONDUIT. PROVIDE PULLWIRE IN ALL CONDUIT. PULLWIRE TO REMAIN AFTER CABLE INSTALLATION. TWO JACKS AND CABLES UNLESS OTHERWISE NOTED.

6 TYPICAL INFORMATION OUTLET

NOT TO SCALE

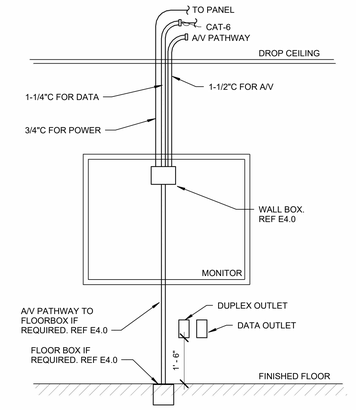


GROUND GRID NOTES:

1. INSTALL 1/0 AWG STRANDED BARE SOFT DRAWN COPPER (BSDC) WIRE AND BOND GROUND TO REINFORCING STEEL BAR IN CONCRETE STRUCTURE FOOTING.
2. MAKE ALL CONNECTIONS USING EXOTHERMIC WELDING (CADWELD) PROCESS
3. INSTALL 3/4" CONDUIT WITH (1)-#1/0 AWG COPPER GROUNDING ELECTRODE CONDUCTOR BETWEEN BUILDING STEEL COLUMN AND GROUND. REMOVE PAINT DOWN TO BARE AND BOND GROUND TO STEEL WITH MECHANICAL LUG. REPAINT AFTER INSTALLATION IS COMPLETE.

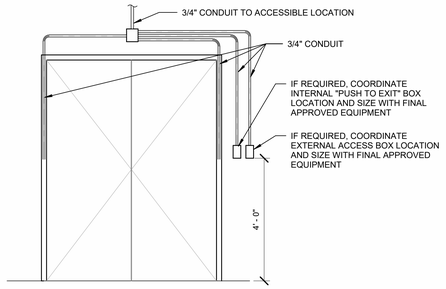
7 NEC 250 ELECTRICAL GROUNDING DETAIL

NOT TO SCALE



8 MONITOR DETAIL

NOT TO SCALE



9 ACCESS CONTROL TYPE 1 - DOUBLE DOOR

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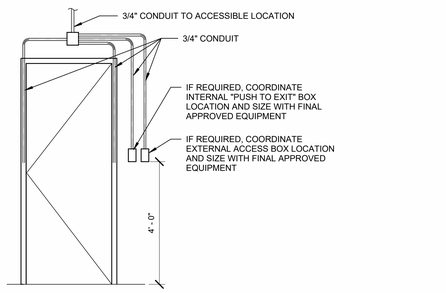

10 ACCESS CONTROL TYPE 2 - SINGLE DOOR

NOT TO SCALE

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ELECTRICAL DETAILS
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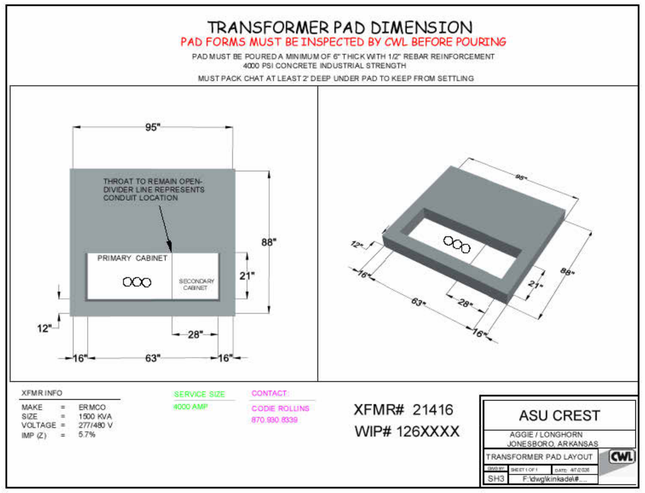
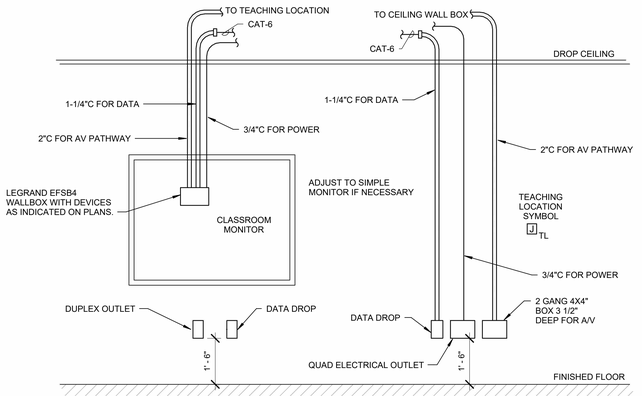


1 1500 kVA TRANSFORMER PAD DETAIL

NOT TO SCALE



2 CLASSROOM MONITOR DETAIL

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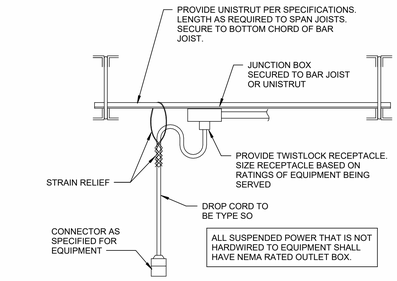
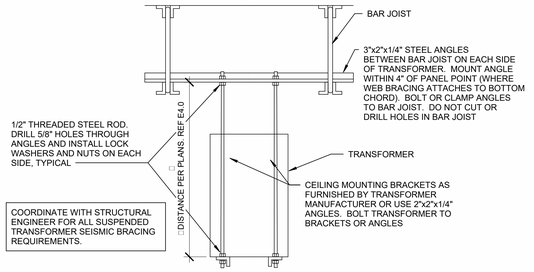


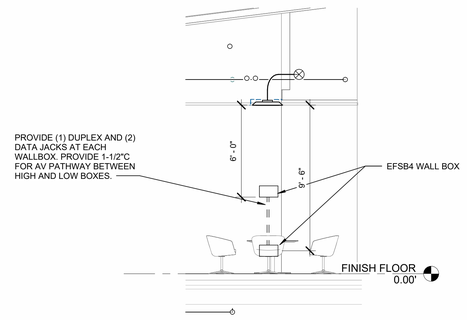
3 SUSPENDED POWER DROP

NOT TO SCALE



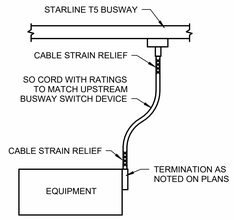
4 SUSPENDED TRANSFORMER

NOT TO SCALE



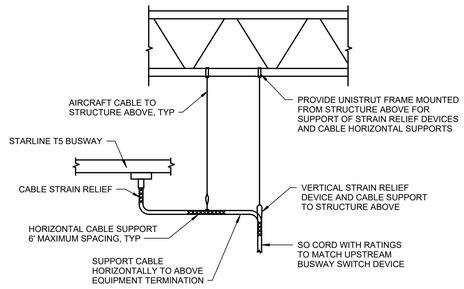
5 ADVISING/CONF 115 WALLBOX DETAIL

NOT TO SCALE



6 BUSWAY DROP CORD DETAIL

NOT TO SCALE



7 HORIZONTAL CABLE SUPPORT DETAIL

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HVAC LEGEND

ABBREVIATION OR SYMBOL	DESCRIPTION
AHU	AIR HANDLING UNIT
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
BHP	BRAKE HORSEPOWER
BTUH	BRITISH THERMAL UNIT PER HOUR
CFM	CUBIC FEET PER MINUTE
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT
D	DRAIN
DB	DRY BULB TEMPERATURE
DN	DOWN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE OF THE COIL
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
FCU	FAN COIL UNIT
FLR	FLOOR
FO	FLAT OVAL
FPM	FEET PER MINUTE (VELOCITY)
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE OF THE COIL
LWT	LEAVING WATER TEMPERATURE
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MIN	MINIMUM
MHP	MOTOR HORSEPOWER
NTS	NOT TO SCALE
OSA	OUTSIDE AIR
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
RH	RELATIVE HUMIDITY
RPM	REVOLUTION PER MINUTE
RTU	ROOF TOP (AIR CONDITIONING) UNIT
SA	SUPPLY AIR
SP	STATIC PRESSURE
TYP	TYPICAL
VAV	VARIABLE AIR VOLUME
WB	WET BULB TEMPERATURE
XFR	TRANSFER AIR
'	FEET
"	INCHES
ø	ROUND DUCT
Φ	OVAL DUCT

ABBREVIATION OR SYMBOL	DESCRIPTION
	CEILING SUPPLY DIFFUSER
	CEILING RETURN/EXHAUST GRILLE
	GRILLE OR REGISTER ON BOTTOM OF DUCTWORK
18/12 SA	SIDEWALL SUPPLY (RETURN SIMILAR)
18/12	RECTANGULAR DUCT WITH DUCT SIZE TAG
20ø	ROUND DUCT WITH DUCT SIZE TAG
20/14Φ	OVAL DUCT WITH DUCT SIZE TAG
24/24 SA	SUPPLY DUCT UP
24/24 SA	SUPPLY DUCT DOWN
24/24 RA	RETURN DUCT UP
24/24 RA	RETURN DUCT DOWN
24/24 EA	EXHAUST DUCT UP
24/24 EA	EXHAUST DUCT DOWN
18/18Φ 24/12	RECTANGULAR/OVAL TRANSITION
18ø 24/12	RECTANGULAR/ROUND TRANSITION
	FLEXIBLE DUCT CONNECTION
F (1) M (3) S (2) C (4)	(1) FIRE DAMPER (2) SMOKE DAMPER (3) MOTORIZED DAMPER (4) CONTROL DAMPER
(1) SD (2)	(1) BALANCING DAMPER (2) SMOKE DETECTOR
250	BALANCING DAMPER, SET TO INDICATED CFM

ABBREVIATION OR SYMBOL	DESCRIPTION
	NEW EQUIPMENT
	EXISTING EQUIPMENT TO REMAIN
	EXISTING EQUIPMENT TO BE REMOVED
	NEW DUCT
	EXISTING DUCT TO REMAIN
	DEMOLISH EXISTING DUCT BACK TO POINT.
	CONNECT TO EXISTING DUCT.

AIR DEVICE "MARK" — C/350 — AIRFLOW CFM

AIR DEVICE DESIGNATION

2 / M1.1

DETAIL/SECTION NUMBER

DETAIL/SECTION DESIGNATION

SHEET NUMBER

T VAV-2 S — THERMOSTAT OR SENSOR. (SUBSCRIPT DESIGNATES CONTROLLED EQUIPMENT)

2 — KEYED NOTE

* NOT ALL SYMBOLS MAY APPLY TO THIS PROJECT

MECHANICAL GENERAL NOTES:

1. ALL MECHANICAL WORK SHALL COMPLY WITH ALL LOCAL CODES, DRAWINGS, SPECIFICATIONS, AND AUTHORITIES HAVING JURISDICTION. IF DISCREPANCIES ARE FOUND, THE MOST STRINGENT REQUIREMENT SHALL GOVERN WORK. WHERE INSPECTIONS ARE REQUIRED BY AUTHORITIES HAVING JURISDICTION, WORK MUST NOT BE CONCEALED UNTIL INSPECTIONS AND TESTING ARE COMPLETE AND WORK IS ACCEPTED.
2. REFER TO SPECIFICATIONS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. REFER TO ALL PROJECT DRAWINGS FOR DETAILS OF CONSTRUCTION AND INSTALLATION REQUIREMENTS.
4. PRIOR TO BID, CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE REQUIREMENTS OF THESE NOTES AS WELL AS OTHER NOTES SHOWN ON THE CONTRACT DOCUMENTS.
5. THESE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIED REFERENCE PRODUCTS. THE SELECTION OF WHICH HAS INFLUENCED THE DESIGNS OF OTHER TRADES. IF SUBSTITUTE MANUFACTURERS, SIZES, OR MODEL NUMBERS ARE BID OR SUBMITTED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL DIFFERENCES PRIOR TO BID. ALL COSTS OF ALL TRADES ASSOCIATED WITH THE SUBSTITUTION SHALL BE INCLUDED IN THE BID.
6. COORDINATION OF ALL MODIFICATIONS TO EACH DISCIPLINE WHICH RESULT FROM SUBSTITUTION OF EQUIPMENT OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SUBSTITUTIONS WHICH ARE INSTALLED AND SUBSEQUENTLY ARE PROVEN UNSATISFACTORY BY OWNER AND/OR ENGINEER WITHIN THE WARRANTY PERIOD, SHALL BE REMOVED COMPLETELY BY THE CONTRACTOR AND REPLACED WITH THE ORIGINAL DESIGN OR CORRECTED AS DIRECTED BY THE ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.
7. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, OR COMPONENT.
8. INFORMATION AND COMPONENTS ON DETAILS OR IN SPECIFICATIONS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
9. CONTRACTOR SHALL NOT SCALE DRAWINGS. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY THE CONTRACT DOCUMENTS.
10. EXACT LOCATIONS OF ALL EQUIPMENT, ROOF CURBS, DUCTS, DIFFUSERS, AND PIPING SHALL BE COORDINATED WITH OTHER TRADES. CEILING MOUNTED SPRINKLER, LIGHTING, AND ELECTRICAL REQUIREMENTS TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL REQUIREMENTS. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING GRID AND LIGHTING LAYOUT FOR COORDINATION OF FINAL DIFFUSER LOCATIONS.
11. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS AND DIMENSIONS. COORDINATE PLACEMENT OF MECHANICAL SYSTEMS WITH ARCHITECTURAL AND STRUCTURAL TRADES.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF OTHER TRADES. REFER TO ALL CONSTRUCTION DOCUMENTS FOR COMPLETE INFORMATION PRIOR TO BID.
13. ALL MECHANICAL CONSTRUCTION DETAILS SHALL BE AS SHOWN AND AS REQUIRED TO MAINTAIN "UL" ASSEMBLY RATINGS AS SHOWN ON ARCHITECTURAL SHEETS. SEAL AROUND ALL PENETRATIONS THROUGH UL RATED ASSEMBLIES, FIRE AND SMOKE WALLS. COORDINATE WITH GENERAL CONTRACTOR.
14. NO OTHER TRADES, I.E., ELECTRICAL, CEILING, PLUMBING, OR OTHER SYSTEMS SHALL BE SUSPENDED, HUNG, OR SUPPORTED FROM DUCTWORK OR PIPING.
15. SPECIAL CARE SHALL BE TAKEN ON EXISTING ROOFS TO PREVENT DAMAGE. ANY DAMAGE SHALL BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER. COMPLY WITH BONDING REQUIREMENTS OF [EXISTING]ROOF.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING AND SEALING OF ALL ROOF PENETRATIONS AIR AND WATER TIGHT.
17. CLOSELY COORDINATE FINAL LOCATIONS OF INSTALLED EQUIPMENT TO ACHIEVE THE GREATEST ACCESSIBILITY FOR MAINTENANCE PURPOSES.
18. CONTRACTOR SHALL VISIT THE SITE TO ESTABLISH THE EXISTING CONDITIONS PRIOR TO DUCT, PIPE OR EQUIPMENT FABRICATION. SYSTEMS SHALL BE ERECTED USING FIELD MEASUREMENTS FOR COORDINATION WITH THE EXISTING EQUIPMENT, STRUCTURE, FIRE PROTECTION AND ELECTRICAL IN THE SPACE.
19. MAINTAIN THE SECURITY OF THE BUILDING AT ALL TIMES.
20. CORE DRILL ALL PIPING PENETRATIONS OF CONCRETE WALLS AND FLOORS.
21. ALL HVAC WORK TO BE PER SMACNA AND ALL APPLICABLE CODES. DUCT SIZES REPRESENT FREE AREA.
22. ALL LOW PRESSURE DUCTWORK THAT HAS TO BE OFFSET DUE TO AN OBSTRUCTION SHALL BE OFFSET WITH TWO - 45 DEGREE, 1.5 RADIUS ELBOWS UNLESS OTHERWISE NOTED.
23. PROVIDE ACCESS DOORS IN WALLS, FLOORS, OR CEILINGS FOR ACCESS TO ALL FIRE DAMPERS, SMOKE DAMPERS, EQUIPMENT, COILS, VALVES, AND BALANCING DAMPERS. ACCESS DOORS ARE NOT REQUIRED WHERE DEVICES ARE DIRECTLY ACCESSIBLE THROUGH AIR DEVICES.
24. PROVIDE FIRE DAMPERS AND SMOKE DAMPERS IN ALL RATED WALLS AS REQUIRED BY ALL AUTHORITIES HAVING JURISDICTION. SEAL AROUND ALL PENETRATIONS OF RATED WALLS, CHASES, CEILINGS, AND FLOORS TO MAINTAIN THE FIRE/SMOKE RATING OF THE ASSEMBLY.
25. ALL DUCTWORK UPSTREAM OF VAV BOXES SHALL BE CONSIDERED "MEDIUM-PRESSURE DUCT".
26. DUCT FITTINGS ARE AS FOLLOWS: 1) FLEX DUCT IS ONLY PERMITTED IN LINEAR DUCT RUNS. FLEX DUCT SHALL NOT BE USED WHERE DUCTWORK CHANGES DIRECTION. ALL ELBOWS SHALL BE HARD DUCTED. 2) ALL 90 DEGREE ELBOWS TO HAVE R/D = 1.5, UNLESS OTHERWISE NOTED. 3) ALL MITERED RECTANGULAR ELBOWS GREATER THAN 90 DEGREES NOTED ARE TO HAVE TURNING VANES. 4) SIDE TAKE-OFF FITTINGS SHALL BE EQUAL TO FLEXMASTER STODB03. 5) DAMPERS SHALL BE EQUAL TO FLEXMASTER SLDR03
27. PROVIDE BRANCH TAKEOFF AND DAMPER AT EACH CONNECTION OF ROUND OR RECTANGULAR BRANCH DUCTS TO A RECTANGULAR DUCT, SEE DETAILS.
28. REFER TO ARCHITECTURAL PLANS FOR LOCATION OF FIRE AND SMOKE WALLS.
29. MAINTAIN A MINIMUM OF 10'-0" BETWEEN ALL FRESH AIR INTAKES AND PLUMBING VENTS, EXHAUST FAN DISCHARGE, AND FLUES. MAINTAIN MINIMUM CLEAR DISTANCE OF 5'0" BETWEEN PARAPET WALL AND ALL ROOF MOUNTED MECHANICAL EQUIPMENT.
30. ALL ROOF MOUNTED EQUIPMENT SHALL BE PROVIDED WITH MANUFACTURER'S FABRICATED CURBS WHICH FACILITATE LEVEL MOUNTING OF THE EQUIPMENT (I.E. FACTORY FABRICATED TO COMPENSATE FOR ROOF SLOPE). OBTAIN ROOF SLOPES AND DIRECTION OF SLOPE FROM ARCHITECTURAL AND/OR STRUCTURAL PLANS. ALL ROOF CURBS SHALL BE A MINIMUM OF 8" HIGH. SHIMMING OF CURBS IS NOT ACCEPTABLE.
31. ROOF PENETRATIONS AND FLASHING OR SEALING MUST COMPLY WITH ROOF MANUFACTURER'S RECOMMENDATIONS AND WARRANTY REQUIREMENTS.
32. ALL DUCTS SHALL BE MOUNTED HIGH AS POSSIBLE AGAINST BOTTOM OF STRUCTURE EXCEPT AS REQUIRED TO AVOID CONFLICTS WITH INTERSECTING SYSTEMS. DIAGONALLY OFFSET DUCTS IMMEDIATELY BEFORE AND AFTER PASSING UNDER INTERSECTING SYSTEMS TO MAINTAIN DUCT TIGHT TO STRUCTURE.
33. CONTRACTOR SHALL FIELD VERIFY ALL PIPE ROUTING AND ADJUST ELEVATIONS AS REQUIRED TO AVOID CONFLICTS. FINAL PLACEMENT OF PIPING SHALL BE DETERMINED BY FIELD MEASUREMENT AND VERIFICATION. ELEVATIONS ARE REFERENCED TO PIPE CENTERLINE UNLESS OTHERWISE NOTED.
34. DUCTWORK SHALL CONFORM TO THE FOLLOWING PRESSURE CLASSES: SUPPLY UPSTREAM OF TERMINAL BOXES: 3" SP; SUPPLY DOWNSTREAM OF TERMINAL BOXES: 2" SP; RETURN/RELIEF/OUTSIDE AIR/EXHAUST: 2" SP. ALL DUCTWORK IS REQUIRED TO BE TESTED IN ACCORDANCE WITH THE SPECIFICATIONS.
35. ALL EQUIPMENT, DEVICES, AND FIXTURES SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION.
36. CONTRACTOR SHALL VERIFY CLOSELY AT SITE TRANSPORTATION OF NEW HVAC EQUIPMENT INTO MECHANICAL AREAS BEFORE BIDDING. PROVIDE COMPLETE DISASSEMBLY AND RE-ASSEMBLY OF NEW EQUIPMENT AS REQUIRED FOR A COMPLETE INSTALLATION.
37. PROVIDE FLEXIBLE CONNECTIONS AND TRANSITIONS ON DUCT INLET AND OUTLET CONNECTIONS TO ALL EQUIPMENT WITH MOVING PARTS.
38. DUCTWORK VISIBLE THROUGH RETURN AIR OPENINGS SHALL BE PAINTED FLAT BLACK TO REDUCE VISIBILITY.
39. EXPOSED DUCTWORK AND PIPING SHALL BE FINISHED SUITABLE FOR PAINTING, AND SHALL BE PAINTED AS REQUIRED BY ARCHITECTURAL SPECIFICATIONS.
40. NOT ALL REQUIRED PIPING, VALVES, OR FITTINGS ARE SHOWN ON DRAWINGS FOR CLARITY. COORDINATE PLAN DETAILS WITH SPECIFICATIONS, SCHEMATICS, FLOW DIAGRAMS, AND OTHER DETAILS TO PROVIDE COMPLETE PIPING SYSTEMS.
41. COORDINATE WORK CLOSELY WITH CONTROL REQUIREMENTS. PROVIDE ALL NECESSARY DUCT TAPS, PIPE TAPS, WELLS, AND OTHER APPURTENANCES REQUIRED BY CONTROL SYSTEM. PROVIDE SPARE PIPE WELL ADJACENT TO EACH TEMPERATURE SENSOR IN PIPING.
42. REFER TO ARCHITECTURAL PLANS FOR CEILING GRILLE AND DIFFUSER LOCATIONS, FOR CEILING TYPE, AND FOR MOUNTING REQUIREMENTS. CONTRACTOR SHALL PROVIDE AND INSTALL ALL AIR DEVICES WITH MOUNTING SYSTEM DESIGNED FOR MOUNTING SURFACE TYPE.
43. COORDINATE FINAL PLACEMENT OF ALL THERMOSTATS WITH WALL-MOUNTED DEVICES AND OWNER'S REPRESENTATIVE. MOUNT PER A.D.A. REQUIREMENTS. ANY THERMOSTAT THAT IS REQUIRED TO BE MOUNTED ON AN EXTERIOR WALL SHALL BE MOUNTED ON AN INSULATED PAD.
44. INSTALL SMOKE DETECTOR IN SUPPLY AND RETURN DUCT OF ALL AIR HANDLERS SUPPLYING GREATER THAN 2,000 CFM.
45. PROVIDE CONCRETE PADS FOR ALL GROUND MOUNTED EQUIPMENT.
46. REPLACE ALL ARCHITECTURAL FEATURES REMOVED OR DAMAGED DURING THE COURSE OF THE WORK.
47. CONTRACTOR SHALL PATCH ALL WALLS, FLOORS, AND CEILINGS TO MATCH NEW/EXISTING FOR ALL OPENINGS CREATED BY INSTALLATION OF EQUIPMENT AND HVAC SERVICE PENETRATIONS.
48. ALL SUPPLY, RETURN, RELIEF, AND OUTSIDE AIR DUCTWORK SHALL BE EXTERNALLY INSULATED EXCEPT WHERE LINER, DOUBLE WALL LINED DUCT, OR FABRIC DUCT IS INDICATED. INSULATE TOPS OF SUPPLY AIR DIFFUSERS WITH 2" THICK FIBERGLASS DUCT WRAP. DO NOT INSULATE EXHAUST DUCTWORK EXCEPT FOR FIRE WRAP ON KITCHEN HOOD EXHAUST AND ON EXHAUST ASSOCIATED WITH DEDICATED OUTSIDE AIR UNITS (DOAS).
49. REFER TO SPECIFICATIONS FOR INSULATION AND R-VALUES FOR MECHANICAL PIPING AND DUCTWORK INSULATION.
50. SEE ARCHITECTURAL PLANS FOR ROOF PENETRATION DETAILS.
51. ALL HVAC COMPONENTS WITH ELECTRICAL REQUIREMENTS SHALL BE INSTALLED WITH ELECTRICAL INFRASTRUCTURE NECESSARY TO PROVIDE A FULLY FUNCTIONING SYSTEM. IF NOT SPECIFICALLY SHOWN ON ELECTRICAL SCHEDULE, HVAC FIXTURES REQUIRING ELECTRICAL SERVICE SHALL BE FED FROM BREAKER OF ADEQUATE CAPACITY.
52. ALL CONTROL WIRING SHALL BE INSTALLED IN CONDUIT.
53. PLENUM CABLING SHALL HAVE ITS OWN SYSTEM OF SUPPORT AND BE STRUCTURALLY SOUND. ATTACHMENT TO CEILING GRID AND HANGER WIRES IS PROHIBITED, WHERE NOT INSTALLED IN CONDUIT, CABLING SHALL BE RUN IN CABLE HOOKS. CABLING LAYING ON CEILING TILES IS PROHIBITED.
54. CONTRACTOR SHALL PROVIDE FURR DOWN AND ANY OTHER CEILING MODIFICATIONS NEEDED TO ACCOMMODATE DUCTWORK PENETRATIONS.
55. DESIGN UTILIZES OPEN RETURN PLENUMS IN SOME AREAS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL PLENUM RATED DEVICES AND EQUIPMENT AS REQUIRED BY ALL AUTHORITIES HAVING JURISDICTION.
56. PROVIDE ALL HVAC UNITS WITH AN EXTRA SET OF MANUFACTURER'S RECOMMENDED FILTERS AFTER PROJECT COMPLETION.
57. REFER TO STRUCTURAL ENGINEERING CONTRACT DOCUMENTS FOR PROJECT SEISMIC DESIGN CRITERIA. PROVIDE VIBRATION ISOLATION AND SEISMIC RESTRAINT SYSTEMS FOR EQUIPMENT, DUCTWORK, AND PIPING AS REQUIRED.
58. ALL HVAC EQUIPMENT AND PIPING SHALL HAVE CURBS AND SUPPORTS DESIGNED TO RESIST THE WIND LOADS SPECIFIED BY A LICENSED ENGINEER IN ACCORDANCE WITH ASCE 7 REQUIREMENTS. SUBMITTALS SHALL INCLUDE ENGINEERED WIND CALCULATIONS FOR CURBS AND SUPPORTS.

COMPONENT IDENTIFICATION		COMPONENT IMPORTANCE FACTOR (Ip) 1.0 SEISMIC RESTRAINT REQUIREMENT	1.0 ASCE 7 REFERENCE	1.5 SEISMIC RESTRAINT REQUIREMENT	1.5 ASCE 7 REFERENCE
ROOF MOUNTED		RESTRAIN ALL (SEE NOTE 1,2)	13.1.4.6	RESTRAIN ALL (SEE NOTE 1)	13.1.4.6
FLOOR MOUNTED		RESTRAIN ALL (SEE NOTES 1,2)	13.1.4.6	RESTRAIN ALL (SEE NOTE 1)	13.1.4.6
WALL MOUNTED		RESTRAIN ALL (SEE NOTE 1,2)	13.1.4.6	RESTRAIN ALL (SEE NOTE 1)	13.1.4.6
COMPONENT SUPPORTS		RESTRAIN ALL (SEE NOTE 1)	13.6.4	RESTRAIN ALL (SEE NOTE 1)	13.6.4
SUSPENDED EQUIPMENT	INLINE W/ DUCT	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN. (SEE NOTE 3)	13.6.6	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN. (SEE NOTE 3)	13.6.6
	NOT INLINE W/ DUCT	RESTRAIN ALL (SEE NOTE 1)	13.1.4.6	RESTRAIN ALL	13.1.4.6
SUSPENDED DUCTILE PIPING (STEEL, ALUMINUM, COPPER, ETC.)		RESTRAIN IF > 1" (SEE NOTE 4)	13.6.7.3	RESTRAIN IF > 1"	13.6.7.3
SUSPENDED NON DUCTILE PIPING (CAST IRON, PLASTIC, CERAMIC)		RESTRAIN ALL (SEE NOTE 4)	13.6.7.3	RESTRAIN ALL	13.6.7.3
SUSPENDED PIPE ON TRAPEZE		RESTRAIN IF ANY PIPE ON TRAPEZE > 3" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE ≥ 10 LBS/FT (SEE NOTE 4)	13.6.7.3	RESTRAIN IF ANY PIPE ON TRAPEZE > 1" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE ≥ 10 LBS/FT	13.6.7.3
DUCTWORK		RESTRAIN IF ≥ 6 SQ.FT. OR > 20 LBS/FT (SEE NOTE 4,5)	13.6.6	RESTRAIN IF ≥ 6 SQ.FT. OR > 20 LBS/FT (SEE NOTE 5)	13.6.6
SINGLE CONDUIT		RESTRAIN IF ≥ 2.5"	13.6.5	RESTRAIN IF ≥ 2.5"	13.6.5
CABLE TRAY/BUS DUCT/ TRAPEZED CONDUIT		RESTRAIN IF TOTAL WEIGHT OF RACEWAY ≥ 10 LBS/FT (SEE NOTE 4)	13.6.5	RESTRAIN IF TOTAL WEIGHT OF RACEWAY ≥ 10 LBS/FT	13.6.5
PENDANT, LAY-IN, & CAN LIGHTS		REQUIRED (SEE NOTE 6)	13.5.6.2	REQUIRED (SEE NOTE 6)	13.5.6.2
COMPONENT CERTIFICATION		NOT REQUIRED	13.2.2	REQUIRED (SEE NOTE 7)	13.2.2

NOTES:
1. EQUIPMENT 20 LBS. OR LESS IS EXEMPT IF THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE.
2. RESTRAINTS ARE NOT REQUIRED IF THE COMPONENT WEIGHTS 400 LBS. OR LESS, IS MOUNTED WITH THE CENTER OF MASS AT 4 FT. OR LESS ABOVE A FLOOR, IS POSITIVELY ATTACHED TO THE STRUCTURE, AND HAS FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
3. FLEXIBLE CONNECTIONS REQUIRED FOR PIPE AND CONDUIT CONNECTIONS ONLY.
4. SEE TABLE 1 FOR ROD HANGER LENGTH EXEMPTION RULES.
5. ALL DUCTWORK, REGARDLESS OF SIZE, DESIGNED TO CARRY TOXIC, HIGHLY TOXIC, OR EXPLOSIVE GASES OR USED FOR SMOKE CONTROL MUST BE RESTRAINED.
6. THE RESTRAINT OF PENDANT, LAY-IN, & CAN LIGHTS IS ADDRESSED IN ASTM C636 & E580.
7. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY ENGINEER OF RECORD AND BUILDING OFFICIAL.

SEISMIC DESIGN CATEGORIES D, E, F

GENERAL NOTES
- A. PER THE 2018 INTERNATIONAL BUILDING CODE, MECHANCIAL, PLUMBING AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7-16.
- B. EXTERIOR EQUIPMENT (INCLUDING ROOF CURBS, RAILS, SUPPORTS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH CHAPTERS 26 TO 29 OF ASCE 7-16.
- C. WHERE DESIGN FOR SEISMIC IN ADDITION TO WIND LOADS IS REQUIRED, THE MORE DEMANDING FORCE MUST BE USED.
- D. REFERENCE THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, WIND SPEEDS, ETC.
- E. SEE EQUIPMENT SCHEDULES AND DETAILS FOR SPECIFIC COMPONENT IMPORTANCE FACTOR DESIGNATIONS.
- F. USE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH COMPONENT.
- G. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL.
- H. WHERE SEISMIC RESTRAINT IS REQUIRED, HOUSEKEEPING PADS NEEDED FOR THE INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT MUST BE DESIGNED BY THE SEISMIC ENGINEER. DO NOT POUR ANY HOUSEKEEPING PADS PRIOR TO THE THE RECEIPT OF THE APPROVED SEISMIC SUBMITTAL.
- I. SEISMIC RESTRAINTS FOR DUCTWORK, PIPING, CONDUIT, CABLE TRAY AND BUS DUCT MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS.

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MECHANICAL NOTES AND LEGENDS
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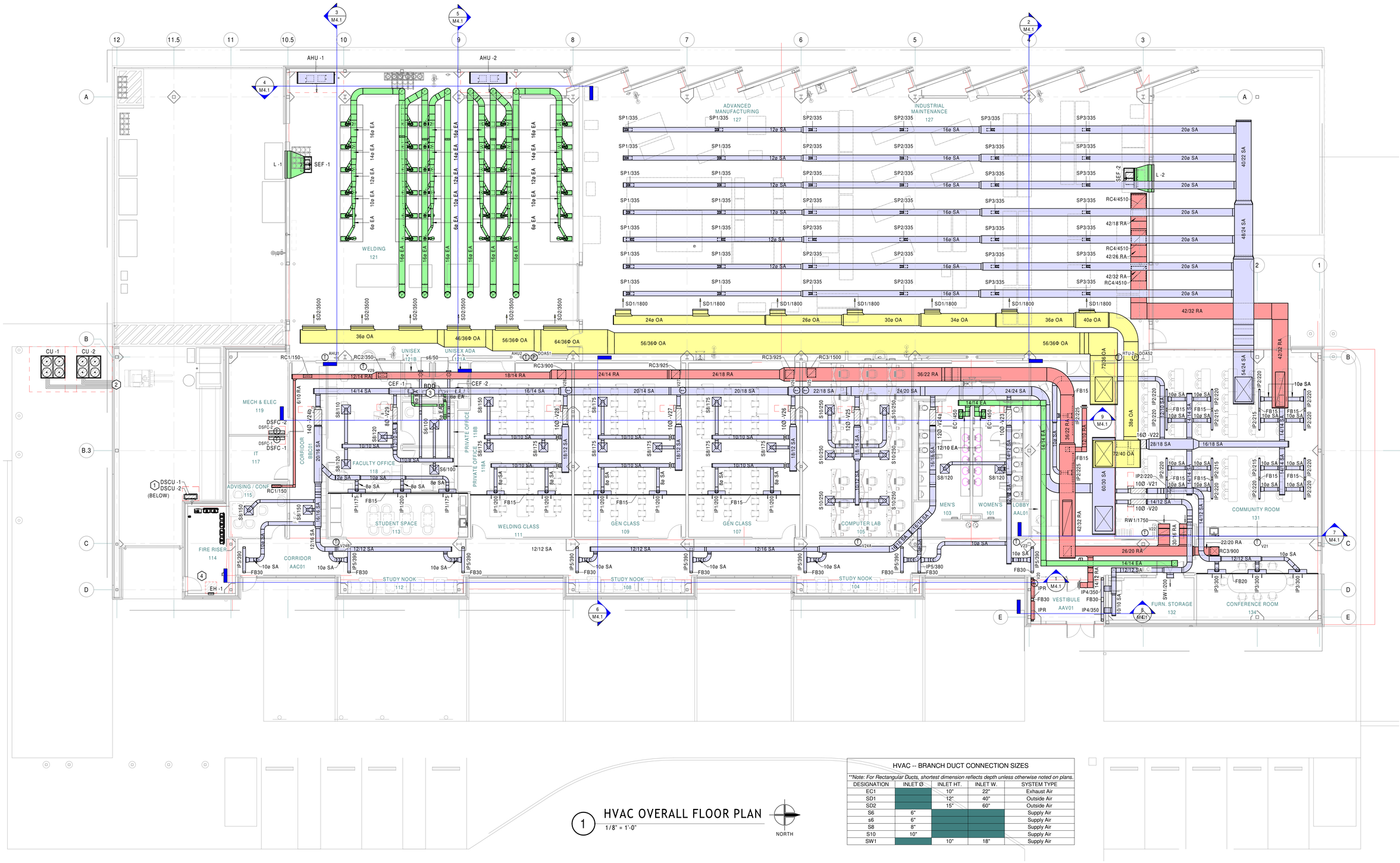

1 HVAC OVERALL FLOOR PLAN

1/8" = 1'-0"

NORTH

HVAC -- BRANCH DUCT CONNECTION SIZES

***Note: For Rectangular Ducts, shortest dimension reflects depth unless otherwise noted on plans.*

DESIGNATION	INLET Ø	INLET HT.	INLET W.	SYSTEM TYPE
EC1		10"	22"	Exhaust Air
SD1		12"	40"	Outside Air
SD2		15"	60"	Outside Air
S6	6"			Supply Air
s6	6"			Supply Air
S8	8"			Supply Air
S10	10"			Supply Air
SW1		10"	18"	Supply Air

KEYED NOTES:

1. DUCTLESS SPLIT CONDENSERS WALL MOUNTED AND STACKED THIS LOCATION.
2. ROUTE REFRIGERANT PIPING (TYP OF 4 PIPES FOR EACH CONDENSER) UP CONCEALED WITHIN EXTERIOR WALL AND ABOVE SOFFIT. ROUTE HIGH OVERHEAD WITHIN JOIST SPACE TO ASSOCIATED AIR HANDLER IN WELDING. ROUTE SUPPORTED PER DETAILS EVERY 5 FT MIN.
3. PROVIDE BACKDRAFT DAMPER, BDD, IN EXHAUST DUCTS SHARING ROOF TERMINATION. TYPICAL OF 2.
4. LOCATE BOTTOM OF ELECTRIC HEATER APPROXIMATELY 2'-0" AFF. FINAL LOCATION OF HEATER SHALL NOT HAVE CLEARANCES CONFLICT WITH COMPONENTS OF FIRE RISER ROOM.
5. PROVIDE OWNER-FURNISHED FIBER LASER CUTTER WITH EXHAUST AIR PURIFIER PER MANUFACTURER'S RECOMMENDATIONS. VERIFY FINAL EQUIPMENT WITH OWNER. ROUTE EXHAUST DUCT (FAN AND DUCT BY MANUFACTURER) TO PURIFIER.

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HVAC FLOOR PLAN

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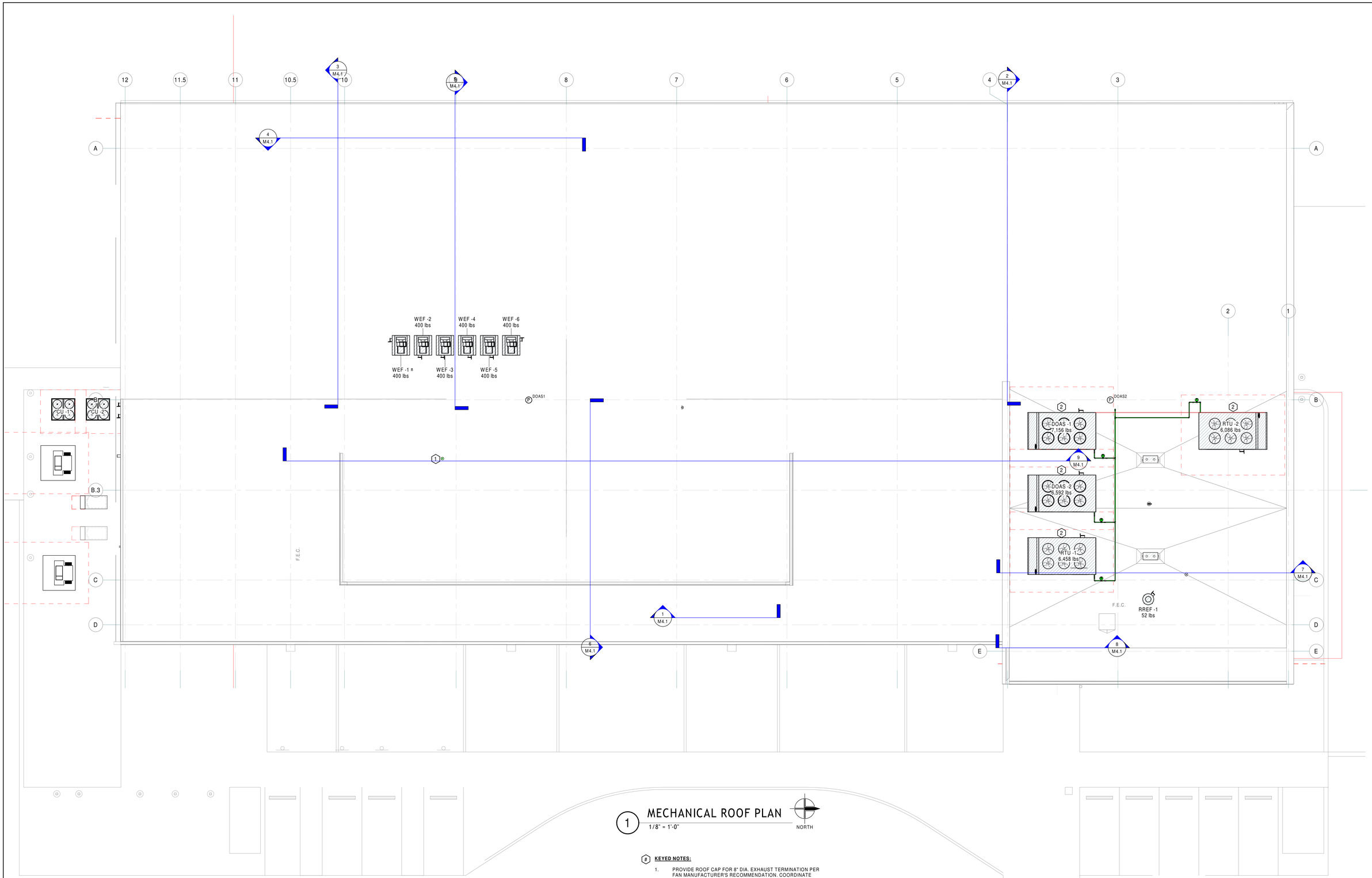

1 MECHANICAL ROOF PLAN

1/8" = 1'-0"

NORTH

 # KEYED NOTES:

1. PROVIDE ROOF CAP FOR 8" DIA. EXHAUST TERMINATION PER FAN MANUFACTURER'S RECOMMENDATION. COORDINATE WITH ARCHITECTURAL FOR ROOF SLOPE AND PENETRATION DETAILS.
2. PROVIDE 1" SCH 40 PVC CONDENSATE TRAP AND DRAIN AT AIR HANDLER CONNECTION. ROUTE CONDENSATE SLOPED 1/8" PER FOOT TOWARDS STORM WATER COLLECTION POINT SUPPORTING PIPING ALONG ROOF EVERY 5 FT. RE: PLUMB.

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MECHANICAL ROOF PLAN

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HVAC -- AHU - PACKAGED SCHEDULE

DESIGNATION					AIRFLOWS		SUPPLY FAN		COOLING DATA							HEATING DATA			HEATING DATA				ELECTRCIAL DATA				
												ENTERING COIL TEMP		LEAVING COIL TEMP					ENTERING								
TYPE	MARK	DESCRIPTION	MANUFACTURER	MODEL	SUPPLY AIR	OUTSIDE AIR (MINIMUM)	EXTERNAL STATIC PRESS.	(QTY) @ BHP	NOMINAL COOLING	NET TOTAL COOLING	NET SENSIBLE COOLING	DB	WB	DB	WB	TYPE	INPUT	OUTPUT	DB	WB	BE_M_Htg_LAT DB_F°	BE_M_Htg_LAT WB_F°	VOLTAGE	PHASE	MCA	MOCP	REMARKS
RTU	1	DX ROOFTOP PACKAGE UNIT - MULTIZONE VAV	Aaon, Inc.	RNA-070-D-B-3-GAB0B-CB2K0	14,800 CFM	4,350 CFM	1.50 in-wg	(2) @ 5.62	59.5 ton	682,500 Btu/h	465,500 Btu/h	82 °F	67 °F	51 °F	50 °F	NATURAL GAS	600,000 Btu/h	486,000 Btu/h	54 °F	45 °F	85 °F	58 °F	480 V	3	135.0 A	150 A	
RTU	2	DX ROOFTOP PACKAGE UNIT - SZVAV	Aaon, Inc.	RNA-040-D-A-3-GAB0B-CB2K0	13,530 CFM	3,810 CFM	1.00 in-wg	(2) @ 4.01	44.1 ton	529,200 Btu/h	388,800 Btu/h	82 °F	67 °F	53 °F	53 °F	NATURAL GAS	600,000 Btu/h	486,000 Btu/h	55 °F	45 °F	88 °F	59 °F	480 V	3	89.0 A	100 A	

RTU PACKAGED UNIT NOTES. PROVIDE EACH UNIT WITH THE FOLLOWING:

1. VARIABLE CAPACITY COMPRESSORS
2. MODULATING GAS HEAT WITH STAINLESS STEEL HEAT EXCHANGER
3. DOUBLE-WALL FOAM-INJECTED PANELS WITH MINIMUM INSULATION VALUE OF R-15 (LAY IN PANEL OR FOIL FACED INSULATION NOT EQUIVALENT)
4. 2 IN. MERV 8 FILTERS WITH CLOGGED FILTER SWITCH
5. NON-FUSED DISCONNECT
6. BACnet IP OR MSTP INTERFACE
7. LOW AMBIENT COOLING/HEAD PRESSURE CONTROL
8. CONDENSATE OVERFLOW SWITCH
9. PHASE AND BROWNOUT PROTECTION
10. COMPRESSOR SOUND BLANKETS
11. LOW SOUND CONDENSER FAN PACKAGE
12. CONDENSER COIL GUARDS/SCREENS
13. FIELD-WIRED CONVENIENCE OUTLET
14. SUPPLY AND RETURN SMOKE DETECTORS.
15. INSULATED DOWNFLOW 14" ROOF CURB WITH SEISMIC RATING AND ATTACHMENT AND ISOLATION RAILS.

HVAC -- OUTSIDE AIR UNIT SCHEDULE

DESIGNATION					AIRFLOW DATA	SUPPLY FAN		COOLING DATA							HEATING DATA			HEATING DATA				ELECTRICAL DATA				
												ENTERING COIL TEMP		LEAVING COIL TEMP					ENTERING		LEAVING						
TYPE	MARK	DESCRIPTION	MANUFACTURER	MODEL	OSA CFM, MAX	EXTERNAL STATIC PRESS.	(QTY) @ BHP	NOMINAL COOLING	NET TOTAL COOLING	NET SENSIBLE COOLING @ 100°F	DB	WB	DB	WB	PRIMARY HEAT TYPE	GAS INPUT	HTG CAPACITY	DB	WB	DB	WB	VOLTAGE	PHASE	MCA	MOCP	REMARKS
DOAS	1	DX PACKAGE ROOF-MOUNTED MAKEUP AIR UNIT	Aaon, Inc.	RNA-070-D-B-3-GAB0B-CB4K0	21,600 CFM	1.50 in-wg	(2) @ 11.22	75.0 ton	837,800 Btu/h	697,900 Btu/h	100 °F	77 °F	68 °F	66 °F	NATURAL GAS	1,200,000 Btu/h	972,000 Btu/h	17 °F	14 °F	59 °F	40 °F	480 V	3	155.0 A	175.0 A	
DOAS	2	DX PACKAGE ROOF-MOUNTED MAKEUP AIR UNIT	Aaon, Inc.	RNA-070-D-B-3-GAB0B-CB3K0	12,600 CFM	2.50 in-wg	(1) @ 13.05	66.9 ton	766,900 Btu/h	507,300 Btu/h	100 °F	77 °F	58 °F	58 °F	NATURAL GAS	900,000 Btu/h	729,000 Btu/h	17 °F	14 °F	71 °F	46 °F	480 V	3	134.0 A	150.0 A	

OUTSIDE AIR UNIT NOTES. PROVIDE EACH UNIT WITH THE FOLLOWING:

1. VARIABLE CAPACITY COMPRESSORS
2. MODULATING HOT GAS REHEAT
3. MODULATING GAS HEAT WITH STAINLESS STEEL HEAT EXCHANGER
4. DOUBLE-WALL FOAM-INJECTED PANELS WITH MINIMUM INSULATION VALUE OF R-15 (LAY IN PANEL OR FOIL FACED INSULATION NOT EQUIVALENT)
5. 2 IN. MERV 8 FILTERS WITH CLOGGED FILTER SWITCH
6. NON-FUSED DISCONNECT
7. BACnet IP OR MSTP INTERFACE
8. LOW AMBIENT COOLING/HEAD PRESSURE CONTROL
9. CONDENSATE OVERFLOW SWITCH
10. PHASE AND BROWNOUT PROTECTION
11. COMPRESSOR SOUND BLANKETS
12. LOW SOUND CONDENSER FAN PACKAGE
13. CONDENSER COIL GUARDS/SCREENS
14. FIELD-WIRED CONVENIENCE OUTLET
15. SUPPLY AND RETURN SMOKE DETECTORS.
16. INSULATED DOWNFLOW 24" ROOF CURB WITH SEISMIC RATING AND ATTACHMENT AND VIBRATION ISOLATION RAILS.

HVAC -- AHU - INDOOR SCHEDULE

DESIGNATION					AIRFLOW DATA		SYSTEM COOLING DATA	COOLING DATA						HEATING DATA		ELECTRICAL DATA				
										ENTERING		LEAVING							
TYPE	MARK	DESCRIPTION	MANUFACTURER	MODEL	SUPPLY AIR	EXTERNAL STATIC PRESS.	NOMINAL	NET TOTAL	NET SENSIBLE	DB	WB	DB	WB	HEATING TYPE	CAPACITY 1	VOLTAGE	PHASE	MCA	MOCP	REMARKS
AHU	1	COMMERCIAL SPLIT AIR HANDLER, ELECTRIC HEAT	TEMPMASTER	GM240C00F4BAA1	7,000 CFM	1.00 in-wg	20.0 ton	225,200 Btu/h	156,800 Btu/h	78 °F	65 °F	56 °F	54 °F	ELECTRIC	32 kW	480 V	3	66 A	70 A	
AHU	2	COMMERCIAL SPLIT AIR HANDLER, ELECTRIC HEAT	TEMPMASTER	GM240C00F4BAA1	7,000 CFM	1.00 in-wg	20.0 ton	225,200 Btu/h	156,800 Btu/h	78 °F	65 °F	56 °F	54 °F	ELECTRIC	32 kW	480 V	3	66 A	70 A	

INDOOR FAN COIL SCHEDULE NOTES. PROVIDE EACH UNIT WITH THE FOLLOWING:

1. R-454B DUAL CIRCUIT REFRIGERATION WITH FACTORY INSTALLED REFRIGERANT DETECTION SYSTEM
2. VFD W/O BYPASS
3. COMPOSITE DRAIN PAN AHU CONDENSATE FROM COIL AND AUXILIARY DRAIN PAN SHALL BE RUN FULL SIZE AND DISCHARGE TO PLUMBING HUB DRAIN PER MANUFACTURER'S RECOMMENDATION.
4. SINGLE POINT POWER
5. ADJUSTABLE BALANCED PORT TXV'S
6. FILTER RACK TO ACCOMMODATE 2" FILTER. UNITS SHALL BE PROVIDED WITH MINIMUM MERV 8 FILTERS. PROVIDE WITH EXTRA SET OF FILTERS.
7. SUPPLY AND RETURN SMOKE DETECTORS.
8. INDOOR UNIT SHALL BE INSTALLED WITH ELASTOMERIC VIBRATIONS ISOLATION PADS EQUAL TO AMBER BOOTH. PADS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION. UNIT SHALL BE SUPPORTED AT ALL FOUR CORNERS.
9. EFFICIENCY TO MEET OR EXCEED ASHRAE 90.1 2012 RECOMMENDATIONS.
10. PROVIDE WITH MANUFACTURER'S RECOMMENDED WALL-MOUNTED, HARD-WIRED DDC PROGRAMMABLE THERMOSTAT.
11. PROVIDE WITH SUPPLY AIR ACCESSORY PLENUM, MODEL 1SP0414.

HVAC -- CONDENSER SCHEDULE

DESIGNATION					ELECTRICAL DATA					
TYPE	MARK	DESCRIPTION	MANUFACTURER	MODEL	NOMINAL TONNAGE	VOLTAGE	PHASE	MCA	MOCP	REMARKS
CU	1	COMMERCIAL SPLIT CONDENSER	TEMPMASTER	WD240C00A4JLC1	225,700 Btu/h	480 V	3	36.8 A	50.0 A	
CU	2	COMMERCIAL SPLIT CONDENSER	TEMPMASTER	WD240C00A4JLC1	225,700 Btu/h	480 V	3	36.8 A	50.0 A	

CONDENSER SCHEDULE NOTES. PROVIDE EACH UNIT WITH THE FOLLOWING:

1. OUTDOOR UNIT SHALL BE PROVIDED WITH DISCONNECT SWITCH, SEE ELECTRICAL.
2. NON-POWERED CONVENIENCE OUTLET (110 VAC)
3. SMART EQUIPMENT CONTROLLER WITH GATEWAY TO BACNET
4. PHASE MONITOR
5. COIL GUARD
6. SCROLL COMPRESSORS WITH CRANKCASE HEATER
7. DUAL REFRIGERATION CIRCUIT (4 PIPE)
8. LIQUID LINE DRIERS (SUPPLIED FOR FIELD INSTALLATION), SUCTION LINE ACCUMULATOR, AND BACK SEATING SUCTION AND LIQUID LINE SERVICE VALVES
9. COPPER TUBE/ALUMINUM FIN CONDENSER COIL
10. INHERENTLY PROTECTED FAN MOTORS
11. FACTORY INSTALLED LOW AMBIENT CONTROL TO 0°F
12. SINGLE POINT POWER CONNECTIONS
13. CONDENSING UNIT AND INDOOR UNIT SHALL BE PROVIDED FROM SAME MANUFACTURER, AND BE FULLY COMPATIBLE WITH EACH OTHER.

HVAC -- EXTERIOR EXHAUST FAN SCHEDULE

DESIGNATION				AIRFLOW DATA		FAN/MOTOR DATA			ELECTRICAL DATA			
TYPE	MARK	MANUFACTURER	MODEL	EXHAUST AIR CFM	EXTERNAL STATIC PRESSURE	FAN MOTOR HP	FAN RPM	MOTOR DRIVE	VOLTAGE	PHASE	FLA	REMARKS
RREF	1	Loren Cook Company	ACRUD 101R28D (VF)	900 CFM	0.50 in-wg	0.33	2800	DIRECT	120 V	1	4.4 A	
SEF	1	Loren Cook Company	36XLW	7,000 CFM	0.15 in-wg	0.5	1725	BELT	120 V	1	9.8 A	
SEF	2	Loren Cook Company	48XLW	12,600 CFM	0.18 in-wg	1	1725	BELT	120 V	1	16.0 A	
WEF	1	Loren Cook Company	CPSLE	3,600 CFM	0.50 in-wg	3	3450	BELT	480 V	3	4.8 A	
WEF	2	Loren Cook Company	CPSLE	3,600 CFM	0.50 in-wg	3	3450	BELT	480 V	3	4.8 A	
WEF	3	Loren Cook Company	CPSLE	3,600 CFM	0.50 in-wg	3	3450	BELT	480 V	3	4.8 A	
WEF	4	Loren Cook Company	CPSLE	3,600 CFM	0.50 in-wg	3	3450	BELT	480 V	3	4.8 A	
WEF	5	Loren Cook Company	CPSLE	3,600 CFM	0.50 in-wg	3	3450	BELT	480 V	3	4.8 A	
WEF	6	Loren Cook Company	CPSLE	3,600 CFM	0.50 in-wg	3	3450	BELT	480 V	3	4.8 A	

EXTERIOR (ROOFTOP/SIDEWALL) EXHAUST FAN SCHEDULE NOTES:

ALL FANS

1. PROVIDE WITH ALL NECESSARY INTERLOCKS TO MEET EXHAUST FAN CONTROL SEQUENCE OF OPERATION PER REMARKS. COORDINATE POWER INTERLOCK REQUIREMENTS WITH ELECTRICAL.
2. PROVIDE WITH DISCONNECT SWITCH.

RREF (RESTROOM EXHAUST FAN):

1. PROVIDE AS ROOF MOUNTED UPBLAST CENTRIFUGAL FAN WITH DIRECT DRIVE AND FAN MOUNTED SPEED CONTROLLER.
2. PROVIDE MANUFACTURER RECOMMENDED ROOF CURB. COORDINATE WITH ARCHITECTURAL TO MATCH CURB TO ROOF SPECIFICATIONS AT MOUNTING LOCATION.

SEF (SIDEWALL GENERAL EXHAUST FAN):

1. PROVIDE AS LOW-PRESSURE WALL EXHAUST FAN WITH STEEL PROPELLER AND BELT DRIVE.
2. PROVIDE WITH OSHA MOTOR GUARD.

WEF (WELDING FUME EXTRACTION FANS) PROVIDE WITH THE FOLLOWING:

1. FLAT BLADE CENTRIFUGAL BLOWER
2. HIGH VELOCITY ADJUSTABLE DISCHARGE NOZZLE
3. INTEGRAL INLET BOX WITH CURB CAP
4. CONTINUOUSLY WELDED HEAVY DUTY FLAT BLADE WHEEL
5. HEAVY GAUGE SPUN ALUMINUM INLET CONE
6. CONTINUOUSLY WELDED HOUSING
7. PHENOLIC EPOXY POWDER WITH UV FINISH
8. WEATHER COVER
9. LIFTING LUGS
10. SS HARDWARE AND SHAFT
11. DRAIN
12. INTEGRAL ADJUSTABLE MOTOR MOUNTING PLATE
13. DYNAMICALLY BALANCED WHEELS
14. ADJUSTABLE PITCH DRIVES FACTORY ADJUSTED TO SPECIFIED FAN RPM.
15. DISCONNECT SWITCH.
16. PROVIDE WITH MANUFACTURER'S RECOMMENDED ROOF CURB, COORDINATE WITH ARCHITECTURAL TO MATCH CURB TO ROOF SPECIFICATIONS AT MOUNTING LOCATION.

HVAC -- VAV SCHEDULE

DESIGNATION				AIRFLOW		ELECTRICAL REQUIREMENTS			
TYPE	MARK	MANUFACTURER	MODEL	DESIGN FLOW	DESIGN HEATING	KW	VOLTAGE	PHASE	REMARKS
10Ø	V20	TITUS	DESV 10	900 CFM	300 CFM	4.0 kW	480 V	3	
10Ø	V21	TITUS	DESV 10	900 CFM	300 CFM	4.0 kW	480 V	3	
16Ø	V22	TITUS	DESV 16	3,950 CFM	1,200 CFM	16.0 kW	480 V	3	
10Ø	V23	TITUS	DESV 10	1,010 CFM	300 CFM	4.5 kW	480 V	3	
12Ø	V24a	TITUS	DESV 12	1,560 CFM	605 CFM	7.0 kW	480 V	3	
14Ø	V24b	TITUS	DESV 14	2,020 CFM	620 CFM	8.5 kW	480 V	3	
12Ø	V25	TITUS	DESV 12	1,500 CFM	500 CFM	6.5 kW	480 V	3	
10Ø	V26	TITUS	DESV 10	925 CFM	310 CFM	3.0 kW	480 V	3	
10Ø	V27	TITUS	DESV 10	925 CFM	310 CFM	4.0 kW	480 V	3	
10Ø	V28	TITUS	DESV 10	900 CFM	300 CFM	4.0 kW	480 V	3	
8Ø	V29	TITUS	DESV 8	650 CFM	190 CFM	3.0 kW	480 V	3	
Grand total: 11									

VAV SCHEDULE NOTES

1. PROVIDE WITH FACTORY DISCONNECT AND SINGLE POINT POWER CONNECTION.
2. PROVIDE WITH MODULATING SCR HEAT.
3. COORDINATE WITH CONTROLS CONTRACTOR TO PROVIDE ZONE THERMOSTAT.

HVAC -- INTERIOR/CEILING EXHAUST FAN SCHEDULE

DESIGNATION				LOCATION			EXTERNAL STATIC PRESSURE	ELECTRIC MOTOR DATA					
TYPE	MARK	MANUFACTURER	MODEL	ROOM	NUMBER	EXHAUST AIR CFM		MOTOR WATTS	VOLTAGE	PHASE	DRIVE	RPM	REMARKS
CEF	1	Loren Cook Company	GC-148	UNISEX	121B	75 CFM	0.25 in-wg	31 W	120 V	1	DIRECT	756	
CEF	2	Loren Cook Company	GC-148	UNISEX ADA	121A	75 CFM	0.25 in-wg	31 W	120 V	1	DIRECT	756	

INDOOR EXHAUST FAN SCHEDULE NOTES

1. EXHAUST FANS SHALL BE PROVIDED WITH SOLID STATE SPEED CONTROLLER, DISCHARGE BACKDRAFT DAMPER AND DISCONNECT SWITCH.
2. EXHAUST FANS SHALL BE PROVIDED WITH MANUFACTURER'S ISOLATOR KIT.
3. EXHAUST FANS SHALL BE INTERLOCKED WITH LIGHT SWITCH OF ROOM THE FAN SERVES.
4. EXHAUST FANS SHALL BE SUPPORTED BY STRUCTURE BY MEANS OF ALL THREAD RODS AND MANUFACTURER'S MOUNTING BRACKETS.

HVAC -- ELECTRIC UNIT HEATER SCHEDULE

DESIGNATION						ELECTRICAL DATA			
TYPE	MARK	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING	VOLTAGE	PHASE	WATTAGE	COMMENTS
EH	1	HEAVY DUTY WALL HEATER	MARLEY	AWH4000 Series	RECESSED MOUNT	208 V	1	2.0 kW	

ELECTRIC UNIT HEATER SCHEDULE NOTES

1. PROVIDE WITH MANUFACTURER'S RECESSED MOUNT WALL KIT, INTEGRAL DISCONNECT, AND INTEGRAL THERMOSTAT.

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MECHANICAL SCHEDULES I
M3.1

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HVAC -- AIR TERMINAL SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	AIRFLOW DATA		INLET SIZE			FACE SIZE		MAX. NOISE CRITERIA	OPTIONS			
				MIN FLOW	MAX FLOW	DIAMETER	WIDTH	LENGTH	W	L		FACE STYLE	FINISH	DAMPER STYLE	MATERIAL
EC1	TITUS	50F	EGGCRATE EXHAUST GRILLE	410 CFM	960 CFM		22"	10"	24"	12"	25	EGGCRATE	WHITE	OPPOSED BLADE	ALUMINUM
RC1	TITUS	50F	EGGCRATE RETURN GRILLE	230 CFM	540 CFM		22"	6"	24"	8"	25	EGGCRATE	WHITE	OPPOSED BLADE	ALUMINUM
RC2	TITUS	50F	EGGCRATE RETURN GRILLE	410 CFM	960 CFM		22"	10"	24"	12"	25	EGGCRATE	WHITE	OPPOSED BLADE	ALUMINUM
RC3	TITUS	50F	EGGCRATE RETURN GRILLE	940 CFM	2,200 CFM		22"	22"	24"	24"	25	EGGCRATE	WHITE	OPPOSED BLADE	ALUMINUM
RC4	TITUS	50F	EGGCRATE RETURN GRILLE	2,890 CFM	5,785 CFM		38"	38"	40"	40"	25	EGGCRATE	WHITE	OPPOSED BLADE	ALUMINUM
RW1	TITUS	350FL	35° DEFLECTION SIDEWALL RETURN GRILLE	315 CFM	1,685 CFM		30"	16"	32"	18"	25	HORIZ.DEFLECTION BLADES	WHITE	OPPOSED BLADE	ALUMINUM
S6	TITUS	OMNI AA-06-1-24x24-26	ALUMINUM SQUARE PLAQUE DIFFUSER	80 CFM	215 CFM	6			24"	24"	25	PLAQUE	WHITE	OPPOSED BLADE	ALUMINUM
s6	TITUS	OMNI AA-06-1-12x12-26	ALUMINUM SQUARE PLAQUE DIFFUSER	80 CFM	180 CFM	6			12"	12"	25	PLAQUE	WHITE	OPPOSED BLADE	ALUMINUM
S8	TITUS	OMNI AA-08-1-24x24-26	ALUMINUM SQUARE PLAQUE DIFFUSER	140 CFM	350 CFM	8			24"	24"	25	PLAQUE	WHITE	OPPOSED BLADE	ALUMINUM
S10	TITUS	OMNI AA-10-1-24x24-26	ALUMINUM .SQUARE PLAQUE DIFFUSER	220 CFM	505 CFM	10			24"	24"	25	PLAQUE	WHITE	OPPOSED BLADE	ALUMINUM
SD1	TITUS	DL - 40x12	High Capacity, Long Throw Drum Louver	1,000 CFM	2,000 CFM		40"	12"	14"	43"	25	ROTATING DRUM	WHITE	FACE ACCESSIBLE OPPOSED BLADE	ALUMINUM
SD2	TITUS	DL - 60x15	High Capacity, Long Throw Drum Louver	1,875 CFM	3,500 CFM		60"	15"	17"	63"	25	ROTATING DRUM	WHITE	FACE ACCESSIBLE OPPOSED BLADE	ALUMINUM
SW1	TITUS	300FL	ADJUSTABLE DOUBLE DEFLECTION SIDEWALL SUPPLY GRILLE	335 CFM	720 CFM		18"	10"	20"	12"	25	DOUBLE DEFLECTION BLADES	WHITE	OPPOSED BLADE	ALUMINUM

AIR TERMINAL SCHEDULE NOTES (APPLIES TO ALL AIR DEVICES):

1. CONTRACTOR SHALL PROVIDE ALL AIR DISTRIBUTION DEVICES WITH MANUFACTURER'S MOUNTING SYSTEM FOR CEILINGS ON WHICH DEVICE SHALL BE MOUNTED.
2. CONTRACTOR SHALL SUBMIT MANUFACTURER'S COLOR OPTIONS TO ARCHITECT BEFORE ORDERING AIR DISTRIBUTION DEVICES.
3. LAY-IN RETURN GRILLES SHALL BE PROVIDED WITH ROUND NECK ADAPTOR
4. DUCT OR WALL MOUNTED GRILLES SHALL MATCH COLOR OF THE DUCT OR WALL ON WHICH THEY ARE MOUNTED UNO
5. PROVIDE SUPPLY GRILLES WITH OPPOSED BLADE DAMPERS.

HVAC -- SPIRAL DUCT MOUNT AIR TERMINAL SCHEDULE

System	MARK	DESCRIPTION	MANUFACTURER	MODEL	AIR EXTRACTOR SCOOP	SPIRAL DUCT DIA	INLET SIZE		AIRFLOW DATA		FACE SIZE		MAX. NOISE CRITERIA (db)	OPTIONS		
							WIDTH	HEIGHT	MIN FLOW	MAX FLOW	WIDTH	LENGTH		FACE STYLE	MATERIAL	MOUNTING
Supply Air	SP1	Single Deflection model has blades parallel to the duct height	TITUS	S301FS	Yes	10	20"	6"	200 CFM	460 CFM	22"	8"	25	SPIRAL MOUNTED SINGLE DEFLECTION	ALUMINUM	SPIRAL DUCT MOUNT
Supply Air	SP2	Single Deflection model has blades parallel to the duct height	TITUS	S301FS	Yes	16	20"	6"	200 CFM	460 CFM	22"	8"	25	SPIRAL MOUNTED SINGLE DEFLECTION	ALUMINUM	SPIRAL DUCT MOUNT
Supply Air	SP3	Single Deflection model has blades parallel to the duct height	TITUS	S301FS	Yes	20	20"	6"	200 CFM	460 CFM	22"	8"	25	SPIRAL MOUNTED SINGLE DEFLECTION	ALUMINUM	SPIRAL DUCT MOUNT

HVAC -- AIR TERMINALS -- FLOW BAR SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	SLOT WIDTH	NUMBER OF SLOTS	MAX. NOISE CRITERIA	OPTIONS			
							FACE STYLE	FINISH	MATERIAL	MOUNTING
FB15	Titus HVAC	FL-15	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	1 1/2"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB15	Titus HVAC	FL-15	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	1 1/2"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB15	Titus HVAC	FL-15	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	1 1/2"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB15	Titus HVAC	FL-15	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	1 1/2"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB15	Titus HVAC	FL-15	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	1 1/2"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB15	Titus HVAC	FL-15	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	1 1/2"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB15	Titus HVAC	FL-15	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	1 1/2"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB15	Titus HVAC	FL-15	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	1 1/2"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB15	Titus HVAC	FL-15	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	1 1/2"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB15	Titus HVAC	FL-15	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	1 1/2"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB15	Titus HVAC	FL-15	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	1 1/2"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB15	Titus HVAC	FL-15	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	1 1/2"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB15	Titus HVAC	FL-15	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	1 1/2"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB15	Titus HVAC	FL-15	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	1 1/2"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB15	Titus HVAC	FL-15	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	1 1/2"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB20	Titus HVAC	FL-20	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	2"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB30	Titus HVAC	FL-30	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	3"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB30	Titus HVAC	FL-30	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	3"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB30	Titus HVAC	FL-30	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	3"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB30	Titus HVAC	FL-30	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	3"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB30	Titus HVAC	FL-30	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	3"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB30	Titus HVAC	FL-30	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	3"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB30	Titus HVAC	FL-30	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	3"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB30	Titus HVAC	FL-30	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	3"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB30	Titus HVAC	FL-30	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	3"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB30	Titus HVAC	FL-30	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	3"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB30	Titus HVAC	FL-30	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	3"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT
FB30	Titus HVAC	FL-30	HIGH CAPACITY CONTINUOUS SLOT DIFFUSER	3"	1	25	HIGH THROW CONTINUOUS SLOT WITH PATTERN CONTROLLER	PER ARCHITECT	ALUMINUM	SURFACE MOUNT

HVAC -- AIR TERMINALS -- FLOW BAR PLENUM -- SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	SLOT WIDTH	PLENUM LENGTH	INLET SIZE			MAX. NOISE CRITERIA	MOUNTING
						OVAL DIA.	WIDTH	HEIGHT		
IP1	Titus HVAC	FBPI-15	INSULATED FLOW BAR SUPPLY PLENUM	1 1/2"	4' - 0"	8"	9 3/8"	5 1/4"	25	FLOW BAR
IP2	Titus HVAC	FBPI-15	INSULATED FLOW BAR SUPPLY PLENUM	1 1/2"	0' - 0"	10"	12 1/2"	5 1/4"	25	FLOW BAR
IP3	Titus HVAC	FBPI-20	INSULATED FLOW BAR SUPPLY PLENUM	2"	4' - 0"	10"	12 1/2"	5 1/4"	25	FLOW BAR
IP4	Titus HVAC	FBPI-30	INSULATED FLOW BAR SUPPLY PLENUM	3"	4' - 0"	12"	14 1/8"	7 7/8"	25	FLOW BAR
IP5	Titus HVAC	FBPI-30	INSULATED FLOW BAR SUPPLY PLENUM	3"	5' - 0"	12"	14 1/8"	7 7/8"	25	FLOW BAR
IPR	Titus HVAC	FBR(I)-30	INSULATED FLOW BAR RETURN PLENUM WITH LIGHT SHIELD	3"	4' - 0"				25	FLOW BAR

HVAC -- DUCTLESS SPLIT FAN COIL SCHEDULE

DESIGNATION		DESCRIPTION	MANUFACTURER	MODEL	COOLING DATA		HEATING DATA	REMARKS
TYPE	MARK				MAX SUPPLY AIR	NOMINAL COOLING	NOMINAL HEATING	
DSFC	1	DUCTLESS WALL MOUNT MINISPLIT FAN COIL	SAMSUNG	AR24DXFAMWKNCV (RNX24AMD)	657 CFM	22,000 Btu/h	24,000 Btu/h	
DSFC	2	DUCTLESS WALL MOUNT MINISPLIT FAN COIL	SAMSUNG	AR24DXFAMWKNCV (RNX24AMD)	657 CFM	22,000 Btu/h	24,000 Btu/h	

DUCTLESS/MINI-SPLIT INDOOR UNIT SCHEDULE NOTES:

1. PROVIDE WITH HARD-WIRED WALL MOUNTED THERMOSTAT LOCATED PER PLANS AND CONDENSATE PUMP.
2. INDOOR UNIT POWERED FROM OUTDOOR UNIT.

HVAC -- DUCTLESS SPLIT CONDENSER SCHEDULE

DESIGNATION		DESCRIPTION	MANUFACTURER	MODEL	ELECTRICAL DATA				REMARKS
TYPE	MARK				VOLTAGE	PHASE	MCA	MOCP	
DSCU	1	DUCTLESS MINISPLIT CONDENSER	SAMSUNG	AR24DXFAMWKXCV (RXX24AMD)	208 V	1	21.0 A	30.0 A	
DSCU	2	DUCTLESS MINISPLIT CONDENSER	SAMSUNG	AR24DXFAMWKXCV (RXX24AMD)	208 V	1	21.0 A	30.0 A	

DUCTLESS/MINI-SPLIT CONDENSER SCHEDULE NOTES

1. FURNISH AND INSTALL EACH CONDENSER WITH MANUFACTURER'S RECOMMENDED WALL MOUNT KIT.
2. PROVIDE UNITS WITH LOW-AMBIENT CONTROL AND WIND BAFFLE.
3. OUTDOOR UNIT AND INDOOR UNIT SHALL BE PROVIDED FROM SAME MANUFACTURER, AND BE FULLY COMPATIBLE WITH EACH OTHER.
4. PROVIDE WITH DISCONNECT, COORDINATE WITH ELECTRICAL.

HVAC -- LOUVER SCHEDULE

DESIGNATION		MANUFACTURER	MODEL	STYLE	AIRFLOW DATA - ACTIVE SECTION			FACE SIZE - ACTIVE SECTION		FINISH	REMARKS
TYPE	MARK				STATIC PRESSURE	FREE AREA	MAX INLET VELOCITY	W	H		
L	1	POTTORFF	ECD-245	STATIONARY, EXTRUDED ALUMINUM DRAINABLE HEAD AND JAMBS	0.10 in-wg	10 SF	750 FPM	60"	48"	COORDINATE W/ ARCHITECT	REFER TO DETAIL FOR FULL REQUIREMENTS AND SIZE.
L	2	POTTORFF	ECD-245	STATIONARY, EXTRUDED ALUMINUM DRAINABLE HEAD AND JAMBS	0.10 in-wg	17 SF	750 FPM	60"	84"	COORDINATE W/ ARCHITECT	REFER TO DETAIL FOR FULL REQUIREMENTS AND SIZE.

LOUVER SCHEDULE NOTES

1. **LOUVER IS CUSTOM CONFIGURATION WITH ACTIVE AND BLANK OFF SECTIONS. REFER TO DETAIL FOR FULL REQUIREMENTS AND SIZE.**
2. CONTRACTOR SHALL COORDINATE COLOR AND FINISH WITH ARCHITECT. CONTRACTOR SHALL SUBMIT MANUFACTURER'S COLOR OPTIONS TO ARCHITECT BEFORE ORDERING ALL LOUVERS.
3. FINAL HEIGHT AND LOCATION OF LOUVER SHALL BE DETERMINED BY ARCHITECT.

WELDING FUME EXHAUST EXTRACTION ARMS, TYPICAL FOR 36 WELDERS:

PROVIDE FUME EXTRACTION ARM EQUAL TO IAP MODEL FA-0610-S:

- FLEXIBLE 39 IN. TO 62 IN. 6" DIAMETER INTERNALLY ARTICULATED TELESCOPIC ARM WITH CONICAL SUCTION HOOD
- STEEL CONSTRUCTION
- PROVIDE WITH WALL OR POST MOUNT BRACKET AND SWIVEL ATTACHMENT.
- PROVIDE WITHOUT THE SHUTOFF DAMPER.

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MECHANICAL SCHEDULES II
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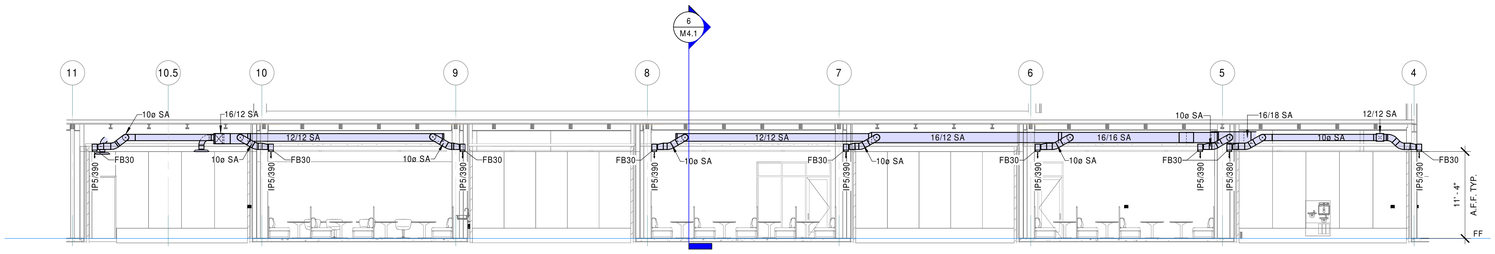
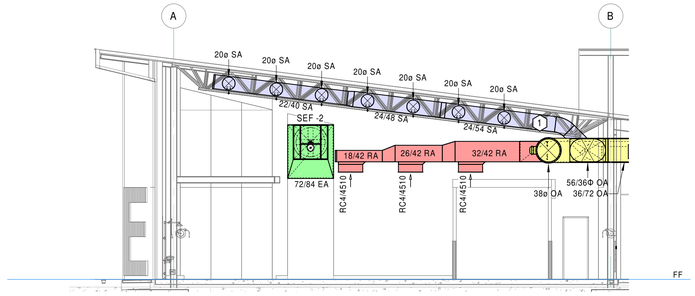
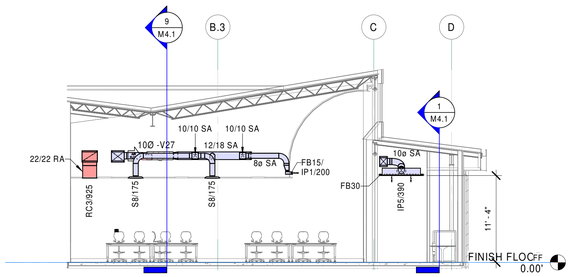


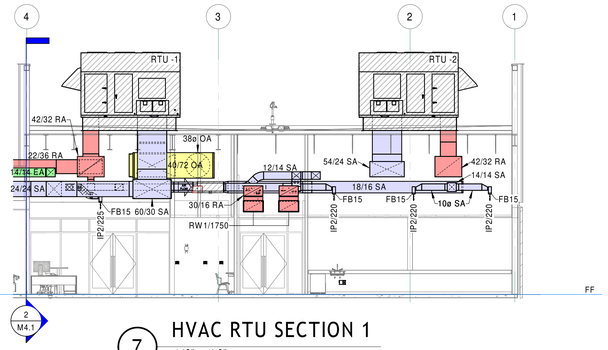
1 HVAC FRONT CORRIDOR SECTION
1/8" = 1'-0"



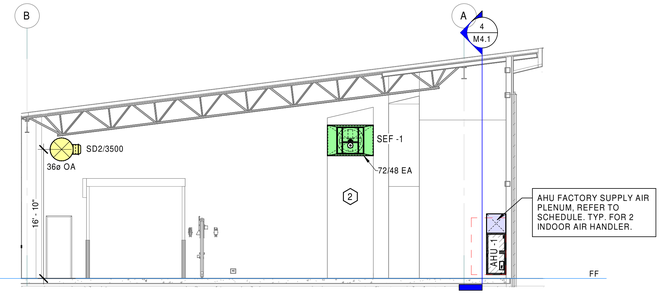
2 HVAC SECTION II
1/8" = 1'-0"



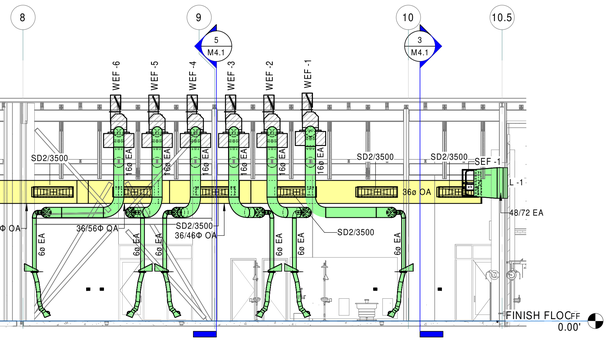
6 HVAC CLASS SECTION I
1/8" = 1'-0"



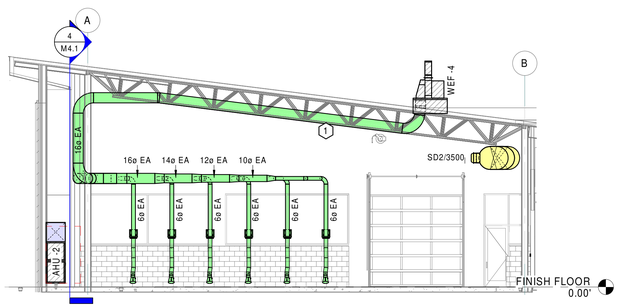
7 HVAC RTU SECTION 1
1/8" = 1'-0"



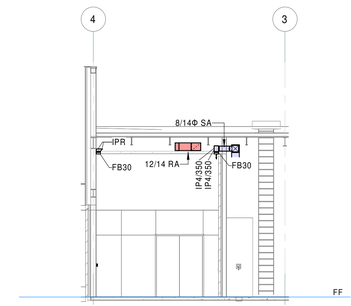
3 HVAC SECTION III
1/8" = 1'-0"



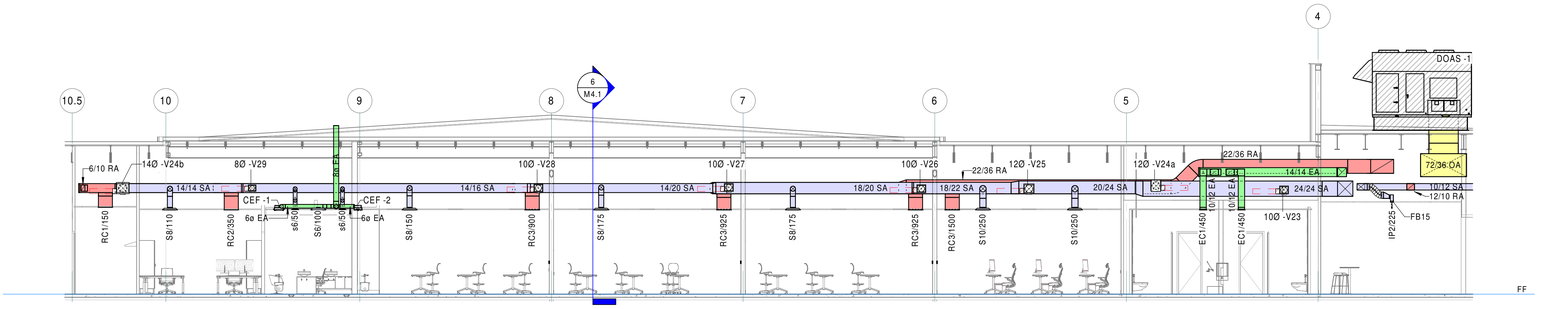
4 HVAC WELDING SECTION I
1/8" = 1'-0"



5 WELDING HVAC SECTION II
1/8" = 1'-0"



8 HVAC VESTIBULE SECTION
1/8" = 1'-0"



9 HVAC RTU-1 DUCT MAINS SECTION
1/8" = 1'-0"

HVAC -- BRANCH DUCT CONNECTION SIZES				
***Note: For Rectangular Ducts, shortest dimension reflects depth unless otherwise noted on plans.*				
DESIGNATION	INLET Ø	INLET HT.	INLET W.	SYSTEM TYPE
EC1		10"	22"	Exhaust Air
SD1		12"	40"	Outside Air
SD2		15"	60"	Outside Air
S6	6"			Supply Air
s6	6"			Supply Air
S8	8"			Supply Air
S10	10"			Supply Air
SW1		10"	18"	Supply Air

KEYED NOTES:

1. DUCTWORK SHALL BE MOUNTED CLOSE TO STRUCTURE AND FOLLOW STRUCTURAL SLOPE AS SHOWN.
2. FULL WALL HEIGHT LOUVER WITH DIMENSIONS PER DETAIL. PROVIDE ACTIVE SECTION AS SCHEDULED AND ILLUSTRATED AND REMAINING LOUVER WITH INSULATED BLANKOFF PANELS. COORDINATE FINISH AND LOCATION WITH ARCHITECT.

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MECHANICAL SECTIONS
M4.1

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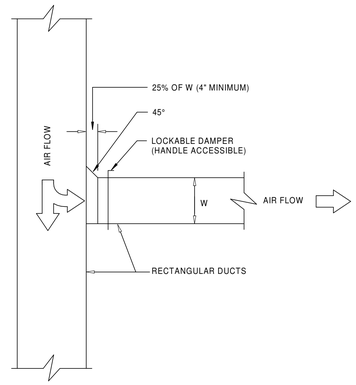
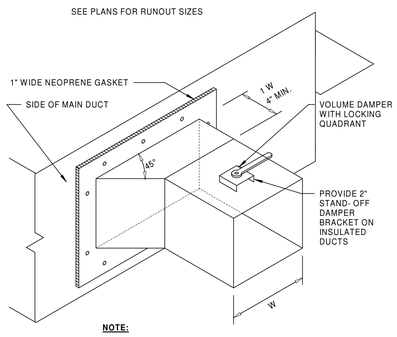


NOTES:

1. USE WHEN LESS THAN 15% OF FLOW IS IN SMALLER OF BRANCHES WHEN MAIN DUCT VELOCITY IS GREATER THAN 1000 FPM
2. USE WHEN LESS THAN 40% OF FLOW IS IN SMALLER OF BRANCHES WHEN MAIN DUCT VELOCITY IS LESS THAN 1000 FPM.

1 45 DEGREE DUCT TAP CONNECTION

NOT TO SCALE

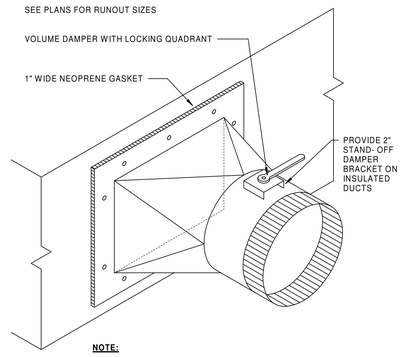


NOTE:

1. DAMPER SHALL BE EQUAL TO RUSKIN MD35.

2 BRANCH DUCT FITTING-RECTANGULAR

NOT TO SCALE

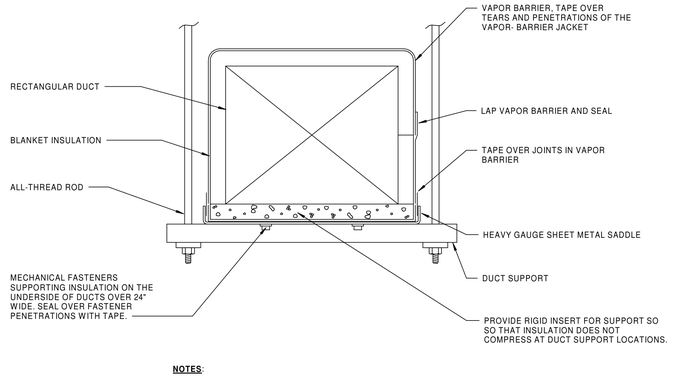


NOTE:

1. SIDE TAKE-OFF FITTINGS SHALL BE EQUAL TO FLEXMASTER STOD.

3 BRANCH DUCT FITTING-ROUND

NOT TO SCALE

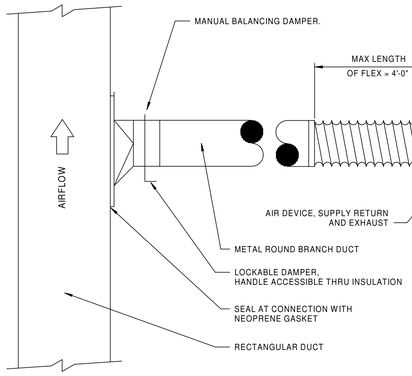


NOTES:

1. PROVIDE SADDLES AT DUCT SUPPORT POINTS.
2. DO NOT TAKE DUCT SUPPORTS OR STRAPS INTO THE INSULATION.
3. PROVIDE INSULATION INSERT SO THAT INSULATION DOES NOT COMPRESS FROM WEIGHT OF DUCT.
4. PROVIDE SEMI-RIGID INSULATION ON ALL DUCTWORK IN MECHANICAL EQUIPMENT ROOMS AND OTHER HIGH ABUSE AREAS AS SPECIFIED.

4 DUCT WRAP INDOORS LESS THAN 36 INCHES

NOT TO SCALE

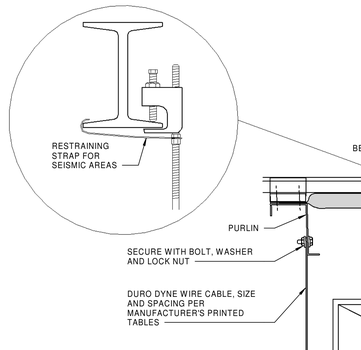


NOTES:

1. TYPICAL FOR SA, RA, AND EXHAUST SYSTEMS.
2. ATTACH FLEX TO DUCT AND DIFFUSER WITH SHEET METAL SCREWS OR DRAW BANDS.
3. FLEX DUCT SHALL BE RATED FOR HIGH PRESSURE AND EQUAL TO FLEXMASTER.
4. HARD DUCT MAY BE INSTALLED INSTEAD OF FLEX DUCT.
5. TAKE-OFF FITTINGS SHALL BE EQUAL TO FLEXMASTER OR RUSKIN.

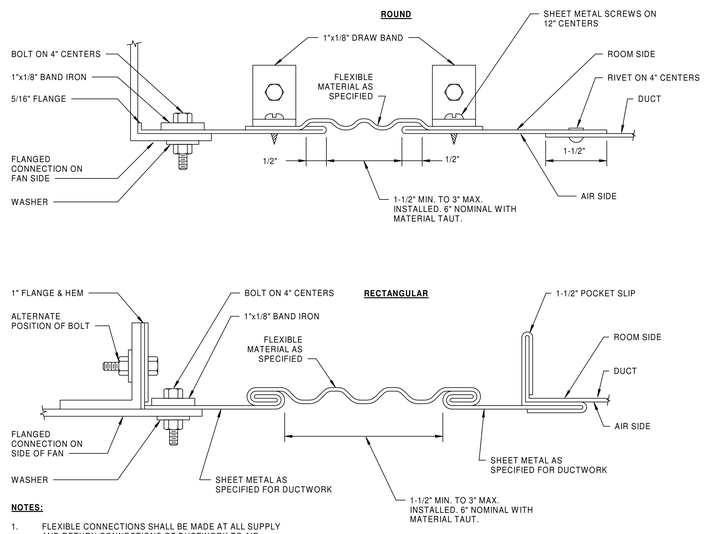
5 BRANCH DUCT TAKE OFF

NOT TO SCALE



6 DUCT SUPPORT

NOT TO SCALE

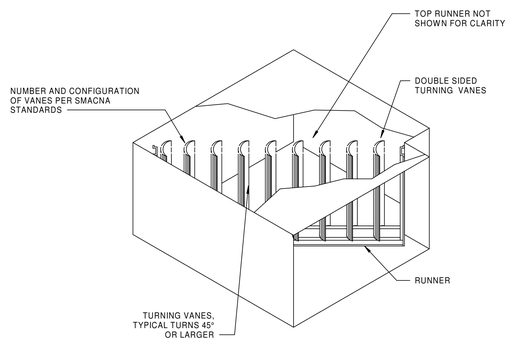


NOTES:

1. FLEXIBLE CONNECTIONS SHALL BE MADE AT ALL SUPPLY AND RETURN CONNECTIONS OF DUCTWORK TO AIR HANDLING UNITS. ALL CONNECTIONS SHALL BE AS PER SMACNA.

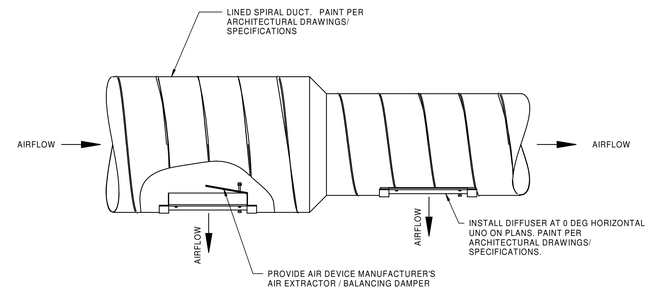
7 FLEXIBLE CONNECTION

NOT TO SCALE



8 TURNING VANE

NOT TO SCALE



9 SPIRAL DUCT MOUNTED DIFFUSER DETAIL

NOT TO SCALE

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Phone 501-448-0100
www.brownengineers.net

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MECHANICAL DETAILS I
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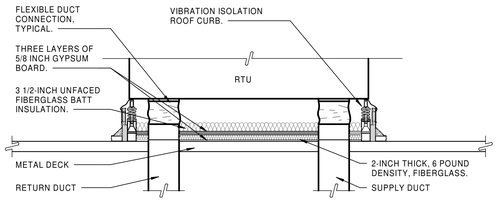
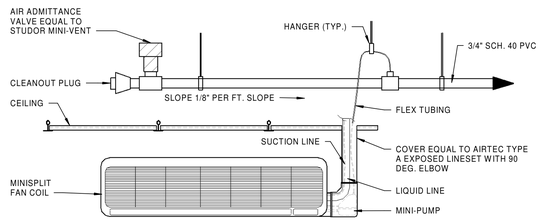


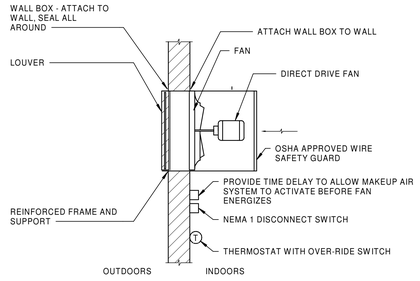
1 AHU ROOFTOP PENETRATION

NOT TO SCALE



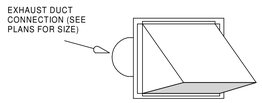
2 DUCTLESS WALL MINISPLIT

NOT TO SCALE



3 EXHAUST FAN - DIRECT DRIVE - WALL 2

NOT TO SCALE

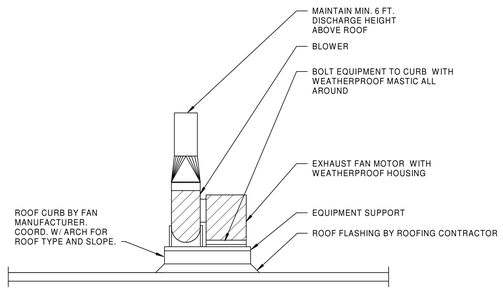


NOTES:

1. WALL CAP SHALL BE EQUAL TO COOK MODEL WCG-8. FOR USE IN LOW-VOLUME EXHAUST APPLICATIONS (300 CFM OR LESS).
2. WALL CAP SHALL HAVE BIRDSCREEN AND BACKDRAFT DAMPER.
3. PAINT WALL CAP TO MATCH WALL.
4. MAINTAIN ALL CODE REQUIRED CLEARANCES FROM OUTSIDE AIR INTAKES, DOORS, AND OPERABLE WINDOWS.

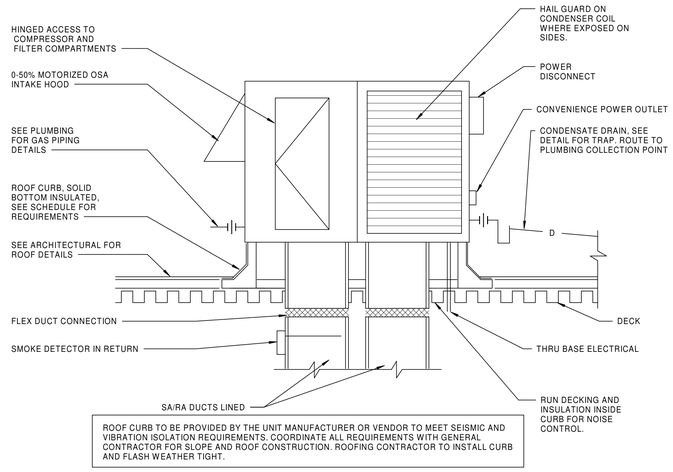
4 EXHAUST WALL CAP

NOT TO SCALE



5 HOOD EXHAUST

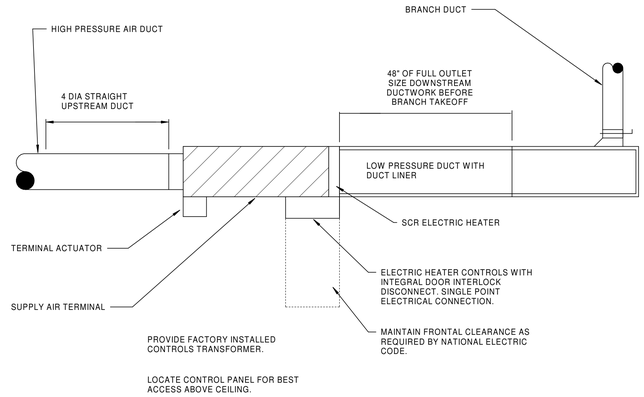
NOT TO SCALE



ROOF CURB TO BE PROVIDED BY THE UNIT MANUFACTURER OR VENDOR TO MEET SEISMIC AND VIBRATION ISOLATION REQUIREMENTS. COORDINATE ALL REQUIREMENTS WITH GENERAL CONTRACTOR FOR SLOPE AND ROOF CONSTRUCTION. ROOFING CONTRACTOR TO INSTALL CURB AND FLASH WEATHER TIGHT.

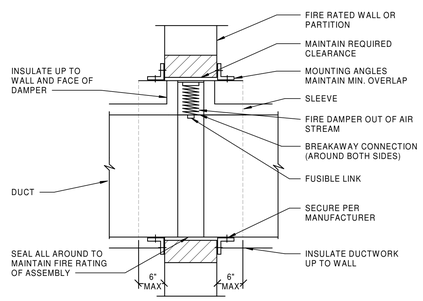
6 PACKAGED UNIT - ROOF

NOT TO SCALE



7 VAV W/ ELECTRIC HEAT

NOT TO SCALE



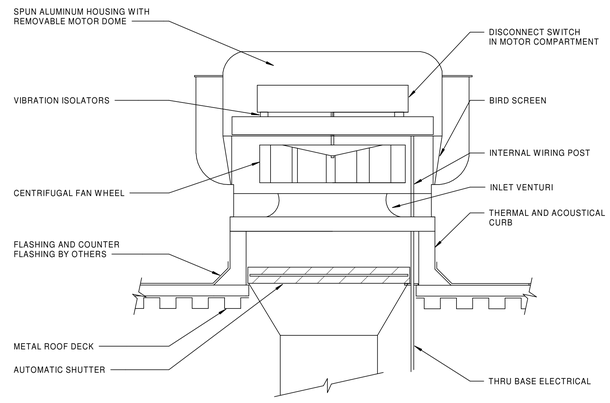
NOTES:

1. FIRE, SMOKE OR COMBINATION FIRE/SMOKE DAMPERS SHALL BE PROVIDED IN RATED ASSEMBLIES REQUIRING THEM.*
2. FIRE AND SMOKE DAMPERS SHALL BE PROVIDED WITH AN APPROVED* MEANS OF ACCESS, LARGE ENOUGH TO PERMIT INSPECTION AND MAINTENANCE OF THE DAMPER AND ITS OPERATING PARTS. ACCESS SHALL BE PROVIDED ON EITHER SIDE OF DAMPER ASSEMBLIES.
3. ACCESS SHALL NOT AFFECT THE INTEGRITY OF FIRE-RESISTANCE-RATED ASSEMBLIES. THE ACCESS OPENINGS SHALL NOT REDUCE THE FIRE-RESISTANCE RATING OF THE ASSEMBLY.
4. PROVIDE ACCESS DOOR MINIMUM 12" X 12" OR EQUIVALENT AREA
5. ACCESS POINTS SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR BY A LABEL HAVING LETTERS NOT LESS THAN 0.5 INCH (12.7 MM) IN HEIGHT READING: FIRE/SMOKE DAMPER, SMOKE DAMPER OR FIRE DAMPER.
6. ACCESS DOORS IN DUCTS SHALL BE TIGHT FITTING AND SUITABLE FOR THE REQUIRED DUCT CONSTRUCTION.
7. ILLUSTRATION IS OF SAMPLE INSTALLATION. INTENT IS TO IDENTIFY MAIN COMPONENTS NECESSARY FOR INSTALLATION. INSTALLATION SHALL COMPLY WITH MANUFACTURE RECOMMENDATIONS.
8. INSULATE DUCT AS SHOWN IN ILLUSTRATION.

* ALL DAMPERS, METHODS AND LOCATION OF INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, NATIONAL FIRE PROTECTION ASSOCIATION AND ALL AUTHORITIES HAVING JURISDICTION. IN THE CASE OF DISCREPANCIES, MOST STRINGENT REQUIREMENTS SHALL GOVERN INSTALLATION.

8 LIFE SAFETY DAMPER

NOT TO SCALE

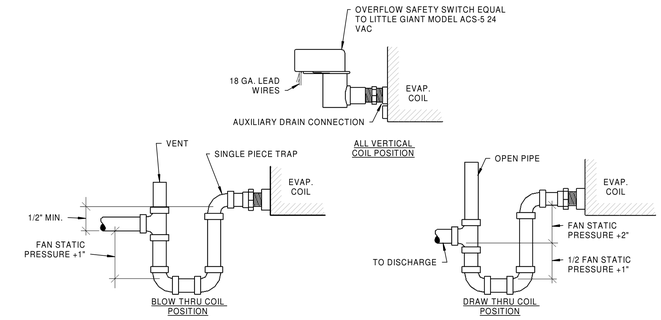


NOTES:

1. ROOF CURB TO BE PROVIDED BY THE UNIT MANUFACTURER.
2. COORDINATE ALL REQUIREMENTS WITH GENERAL CONTRACTOR FOR SLOPE AND ROOF CONSTRUCTION.
3. ROOFING CONTRACTOR TO INSTALL CURB AND FLASH WEATHER TIGHT.

9 EXHAUST FAN - UPBLAST - ROOF

NOT TO SCALE

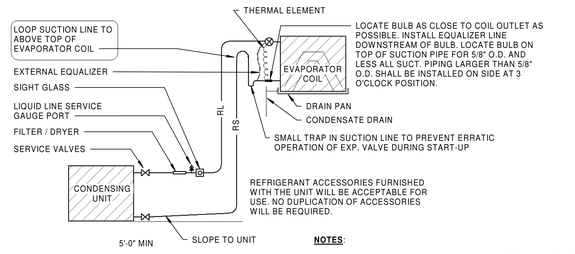


NOTES:

1. RUNNING TRAPS WILL NOT BE ACCEPTED.
2. INSTALL FACTORY FURNISHED TRAP WITH OUTSIDE AIR UNITS.
3. CONDENSATE DISCHARGE LOCATION SHALL MEET REQUIREMENTS OF ALL LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.

10 CONDENSATE TRAP

NOT TO SCALE



NOTES:

1. WRAP EXPANSION VALVE, BULB AND FITTINGS WITH ARMAFLEX INSULATION TAPE AND SECURE WITH BLACK CABLE TIES.
2. TRAP AND LOOP AT EVAPORATOR COIL IS NOT REQUIRED FOR UNITS WITH LIQUID LINE SOLENOID VALVES.
3. SUCTION LINES SHALL BE INSULATED. LIQUID LINES SHALL BE INSULATED ONLY ON DUCTLESS MINI-SPLITS.

11 REFRIGERANT PIPING

NOT TO SCALE

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MECHANICAL DETAILS II
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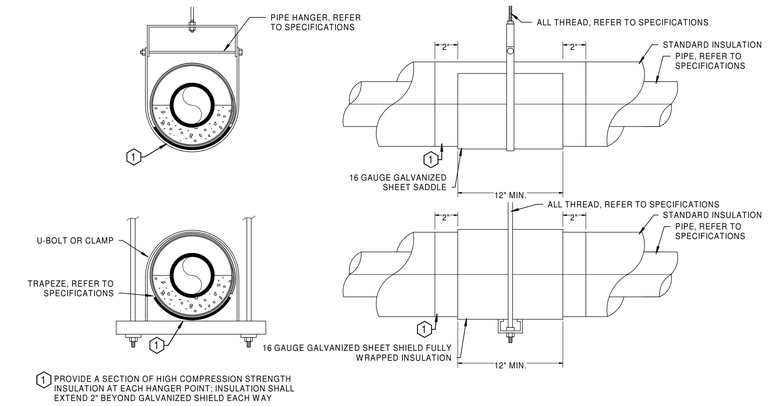
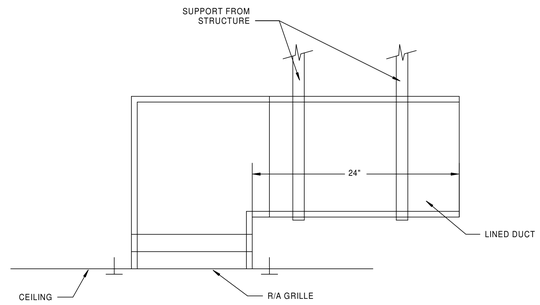


1 PIPE HANGER W/INSULATION

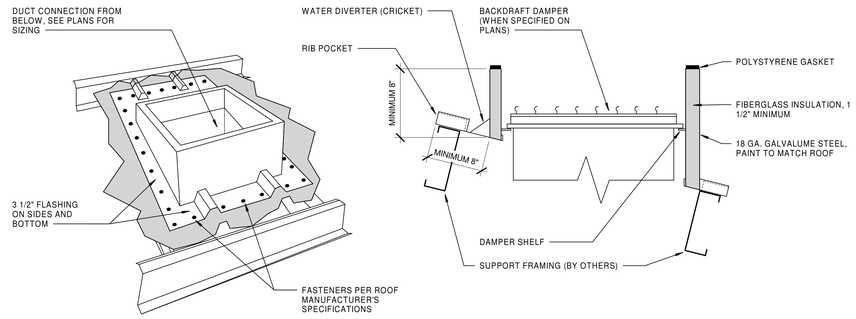
NOT TO SCALE



CONTRACTOR MAY USE THERMABOOT AS MANUFACTURED BY THERMAFLEX AS AN OPTION. AVAILABLE AT (214)-951-9008 ORDER ASSOCIATED RETURN AIR DEVICES WITH SQUARE TO 16" ROUND ADAPTER.

2 SOUND ATTENUATION BOOT

NOT TO SCALE

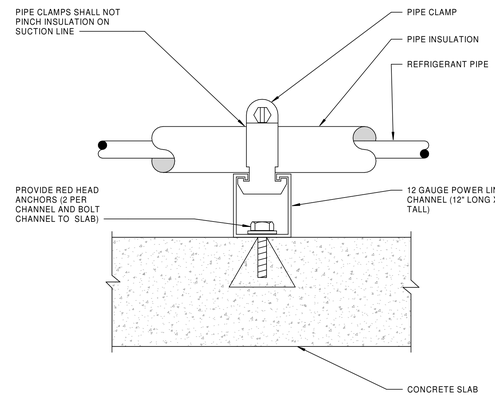


NOTES:

1. ROOF CURB FOR RIDGED METAL ROOFS SHALL BE EQUAL TO ACME MANUFACTURING TYPE MRWC.
2. THIS ROOF CURB IS DESIGNED FOR INSTALLATION ON TOP OF THE ROOFING.
3. COORDINATE CURB LOCATION TO INTERSECT AS FEW ROOF RIDGES AS POSSIBLE. COORDINATE WITH STRUCTURE BELOW TO ALLOW ROOM FOR DUCT CONNECTIONS.
4. COORDINATE WITH ROOFING CONTRACTOR FOR FINAL ROOF PITCH AND RIDGE SPACING BEFORE ORDERING ROOF CURB.

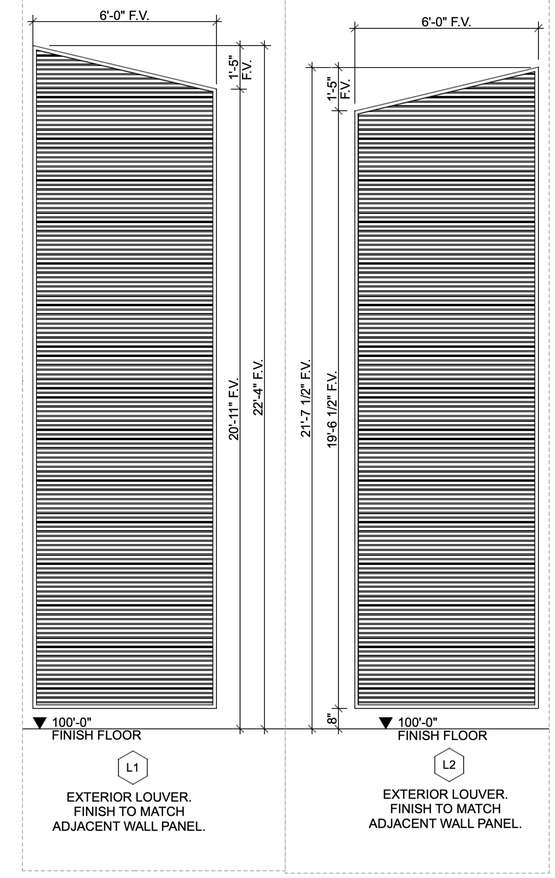
3 RIDGED METAL ROOF CURB

NOT TO SCALE



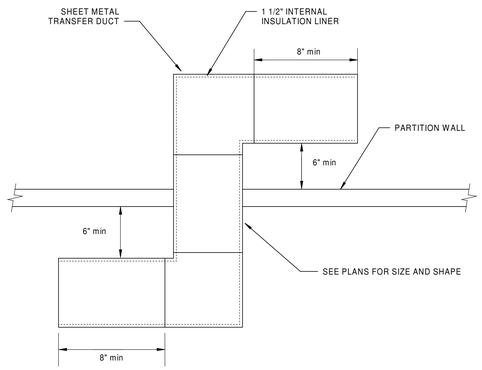
4 PIPE SUPPORT W/INSULATION (REFRIGERANT)

NOT TO SCALE



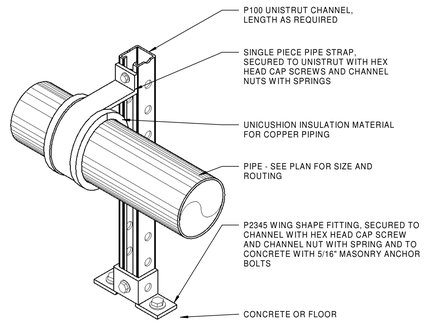
7 LOUVER DETAIL

NOT TO SCALE



5 TRANSFER DUCT

NOT TO SCALE



6 PIPE SUPPORT SLOPED W/INSULATION

NOT TO SCALE

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MECHANICAL DETAILS III

M5.3

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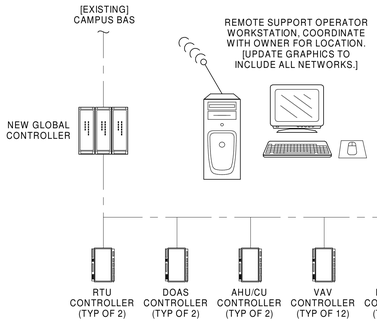


HVAC CONTROLS GENERAL NOTES:

CONTRACTOR SHALL FURNISH AND INSTALL BUILDING AUTOMATION SYSTEM (BAS) AS FOLLOWS:

- WEB ENABLED NATIVE BACNET BUILDING CONTROLLER AND EQUIPMENT CONTROLLERS CAPABLE OF ALL HVAC SYSTEMS INTEGRATION AND MONITORING AS SHOWN.
- INTEGRATION OF BUILDING CONTROLLER INTO EXISTING CAMPUS FRONT END.

DUCTLESS SPLIT SYSTEM MONITORING (DSFC / DSCU):

EQUIPMENT SHALL BE CONTROLLED BY WALL MOUNTED, HARD-WIRED MANUFACTURER SUPPLIED THERMOSTAT WITH 78 DEG SPACE TEMPERATURE SETPOINT.

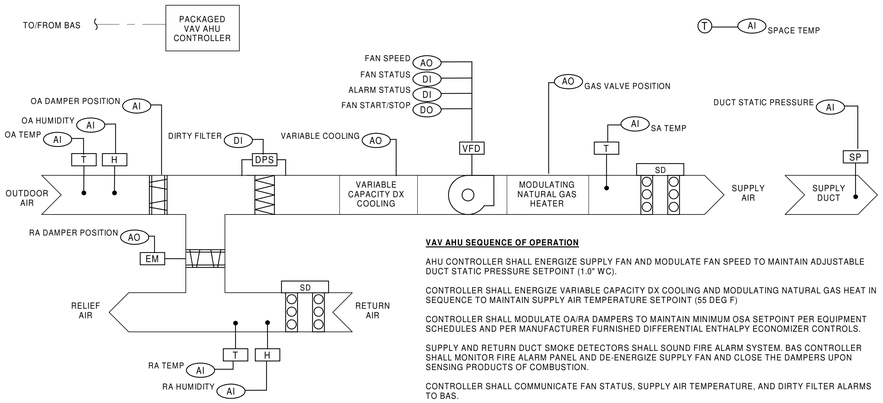
DDC SHALL MONITOR SPACE TEMPERATURE AND ALARM ON SPACE TEMP ABOVE 90°F.

RR CEILING EXHAUST FANS SHALL INTERLOCK WITH LIGHTING.

CONTRACT DOCUMENT CONTROLS DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ONLY ILLUSTRATE CONTROLS AS REQUIRED TO ACHIEVE DESIGN INTENT. CONTROLS CONTRACTOR SHALL PROVIDE ALL INSTRUMENTATION AND PROGRAMMING AS REQUIRED TO FURNISH A FULLY FUNCTIONING SYSTEM.

1 SYSTEM ARCHITECTURE

1" = 10'-0"



VAV AHU SEQUENCE OF OPERATION

AHU CONTROLLER SHALL ENERGIZE SUPPLY FAN AND MODULATE FAN SPEED TO MAINTAIN ADJUSTABLE DUCT STATIC PRESSURE SETPOINT (1.0" WC).

CONTROLLER SHALL ENERGIZE VARIABLE CAPACITY DX COOLING AND MODULATING NATURAL GAS HEAT IN SEQUENCE TO MAINTAIN SUPPLY AIR TEMPERATURE SETPOINT (55 DEG F)

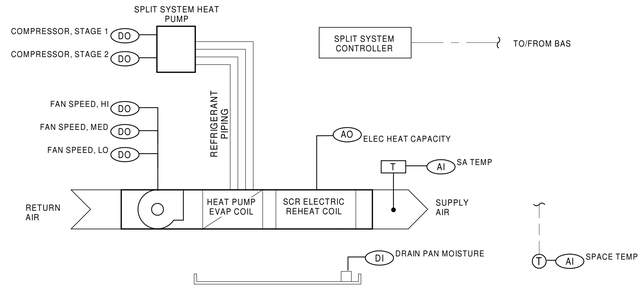
CONTROLLER SHALL MODULATE OA/RA DAMPERS TO MAINTAIN MINIMUM OSA SETPOINT PER EQUIPMENT SCHEDULES AND PER MANUFACTURER FURNISHED DIFFERENTIAL ENTHALPY ECONOMIZER CONTROLS.

SUPPLY AND RETURN DUCT SMOKE DETECTORS SHALL SOUND FIRE ALARM SYSTEM. BAS CONTROLLER SHALL MONITOR FIRE ALARM PANEL AND DE-ENERGIZE SUPPLY FAN AND CLOSE THE DAMPERS UPON SENSING PRODUCTS OF COMBUSTION.

CONTROLLER SHALL COMMUNICATE FAN STATUS, SUPPLY AIR TEMPERATURE, AND DIRTY FILTER ALARMS TO BAS.

3 VAV AHU CONTROLS

NOT TO SCALE



SPLIT SYSTEM SEQUENCE OF OPERATION

BAS SHALL COMMUNICATE SCHEDULED ADJUSTABLE SPACE TEMPERATURE SETPOINT TO BE EITHER OCCUPIED (74 DEG) OR UNOCCUPIED (70 DEG HEATING, 78 DEG COOLING) WITH MANUAL TIMED OVERRIDE.

AHU_CU-1 AND AHU-CU-2 SHALL OPERATE IN LEAD LAG CONFIGURATION WITH LEAD UNIT ALTERNATING EACH WEEK.

CONTROLLER SHALL ACTIVATE LEAD UNIT AND MODULATE FAN SPEED AND ENERGIZE DX HEAT PUMP AND ELECTRIC HEAT IN SEQUENCE TO MAINTAIN SPACE TEMPERATURE SETPOINT.

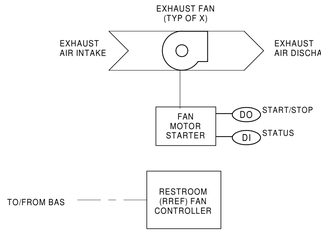
UPON SPACE TEMPERATURE DEVIATING FROM SETPOINT MORE THAN 5 DEG F (ADJ, +5 DEG CLG, - 5 DEG HTG), LAG UNIT SHALL ALSO SIMILARLY ACTIVATE. ONCE TEMPERATURE SETPOINT IS MET, CONTROL SEQUENCE SHALL REVERSE.

SENSOR IN AUXILIARY DRAIN PAN SHALL ACTIVATE ALARM AND DE-ENERGIZE SUPPLY FAN WHEN MOISTURE IS DETECTED.

FAN COIL UNIT CONTROLLER SHALL COMMUNICATE FAN STATUS AND SUPPLY AIR TEMPERATURES TO BAS.

2 SPLIT SYSTEM CONTROLS - ELEC HEAT

NOT TO SCALE



EXHAUST FAN SEQUENCE OF OPERATION

BAS SHALL COMMUNICATE SCHEDULED SPACE OCCUPANCY TO BE EITHER OCCUPIED OR UNOCCUPIED WITH MANUAL TIMED OVERRIDE.

CONTROLLER SHALL ENERGIZE FAN DURING OCCUPIED HOURS AND MONITOR FAN STATUS.

4 RR EXHAUST FAN (RREF) CONTROLS

NOT TO SCALE

HVAC CONTROLS LEGEND

	CONTROL WIRING
	BAS TRUNK CABLING
	CONTROL DAMPER BY CONTROL SYSTEM MANUFACTURER, UNLESS OTHERWISE NOTED.
	FAN
	PUMP
SD	DUCT SMOKE DETECTOR
	FILTER
	FILTER MAGNEHELIC GAUGE BY FILTER MANUFACTURER
EM	ELECTRIC TWO-WAY, MODULATING CONTROL VALVE UNLESS NOTED AS TWO-POSITION
EM	ELECTRIC THREE-WAY, MODULATING CONTROL VALVE UNLESS NOTED AS TWO-POSITION
	FAN OR PUMP STARTER W / HOA
LL	LOW LIMIT TEMPERATURE CONTROLLER DAMPER
DPS	DIFFERENTIAL PRESSURE SWITCH
VFD	VARIABLE FREQUENCY DRIVE BY CONTROL MANUFACTURER
EM	ELECTRIC DAMPER OPERATOR
T	TEMPERATURE SENSOR
H	HUMIDITY SENSOR
CS	CURRENT SENSOR
AMS	AIRFLOW MEASURING STATION
HOS	FUME HOOD OCCUPANCY SENSOR
ODP	FUME HOOD OPERATOR DISPLAY PANEL
HSS	FUME HOOD SASH POSITION SENSOR
AFM	AIR FLOW MEASUREMENT SIGNAL
DFA	DIRTY FILTER ALARM
P	PRESSURE SENSOR
HPA	HIGH PRESSURE ALARM
SP	STATIC PRESSURE SENSOR
HHL	HUMIDITY HIGH LIMIT SENSOR
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
C	COMMON
CV	CONSTANT VOLUME
T	SPACE TEMPERATURE SENSOR
H	SPACE HUMIDITY SENSOR
P	SPACE PRESSURE SENSOR
C	SPACE CO2 SENSOR
AI	ANALOG INPUT
AO	ANALOG OUTPUT
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT

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MECHANICAL CONTROLS I
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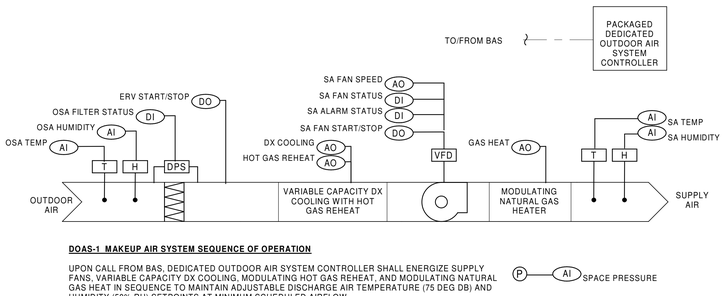
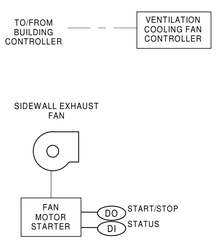




DOAS-1 MAKEUP AIR SYSTEM SEQUENCE OF OPERATION

UPON CALL FROM BAS, DEDICATED OUTDOOR AIR SYSTEM CONTROLLER SHALL ENERGIZE SUPPLY FANS, VARIABLE CAPACITY DX COOLING, MODULATING HOT GAS REHEAT, AND MODULATING NATURAL GAS HEAT IN SEQUENCE TO MAINTAIN ADJUSTABLE DISCHARGE AIR TEMPERATURE (75 DEG DB) AND HUMIDITY (50% RH) SETPOINTS AT MINIMUM SCHEDULED AIRFLOW.

SPACE PRESSURE CONTROL

CONTROLLER SHALL MODULATE FAN SPEED FROM 33% (MIN, OCCUPIED) TO 100% (MAX WELDING FUME EXHAUST) AIRFLOW TO MAINTAIN MINIMUM ADJUSTABLE SPACE PRESSURE SETPOINT (-0.1" WG).

FREEZE PROTECTION: IF THE DOAS ENTERING AIR TEMPERATURE DROPS BELOW 38°F, THE DOAS CONTROLLER OVERRIDES THE TRACKING SPEED LOOP, OPENS ITS HEATING VALVE TO 100%, AND CLOSES THE OUTDOOR AIR DAMPER TO PROTECT COILS FROM FREEZING.

DEDICATED OUTDOOR AIR SYSTEM CONTROLLER SHALL COMMUNICATE FAN STATUS, SUPPLY AIR TEMPERATURE AND HUMIDITY, AND DIRTY FILTER ALARMS TO BAS.

P — AI — SPACE PRESSURE

VENTILATION COOLING SEQUENCE OF OPERATION

WELDING GENERAL VENTILATION:

INTERLOCK EXHAUST FAN, SEF-1 WITH DOAS-1 TO ACTIVATE DURING OCCUPIED HOURS.

ADDITIONALLY, BAS SHALL ENERGIZE DOAS AND EXHAUST FAN TO MAINTAIN ADJUSTABLE SPACE TEMPERATURE SETPOINT (80 DEG F).

EXHAUST FAN SHALL INCLUDE TIME DELAY FOR INTERLOCKED DOAS TO PROVE SUPPLY FAN STATUS PRIOR TO ENERGIZING EXHAUST FAN MOTOR.

CONTROLLER SHALL COMMUNICATE SUPPLY AND EXHAUST FAN STATUS TO BAS.

WELDING EXHAUST FAN CONTROLS:

SYSTEM INITIATION:

WELDING EXHAUST ZONES SHALL BE ACTIVATED VIA WALL SWITCH, TYPICAL OF 6.

UPON ACTIVATION OF ANY WELDER, THE BAS COMMANDS TO FOLLOWING:
A. THE DOAS SYSTEM (DOAS-1) TO ACTIVATE.
B. THE ASSOCIATED FUME EXHAUST FAN (WEF-1 THRU WEF-6) TO ACTIVATE.

DOAS SUPPLY FAN SHALL PROVE ACTIVE WITHIN 45 SECONDS, OR A NETWORK ALARM TRIGGERS AND STOPS THE FANS AND WELDER.

THE DOAS SHALL MODULATES ITS SUPPLY FAN SPEED BETWEEN 33% AND 100% AIRFLOW TO MATCH THE SUM AIRFLOW OF ACTIVE WELDING EXHAUST FANS AND GENERAL EXHAUST FAN PEAKING AT 21,600 CFM OF MAKEUP AIR UNDER FULL LOAD. ONCE THE TOTAL AIRFLOW OF WELDING EXHAUST FANS EXCEEDS 14,600 CFM, BAS SHALL DEACTIVATE THE GENERAL EXHAUST FAN, SEF-1.

5. COOLDOWN & SHUTOFF SEQUENCE

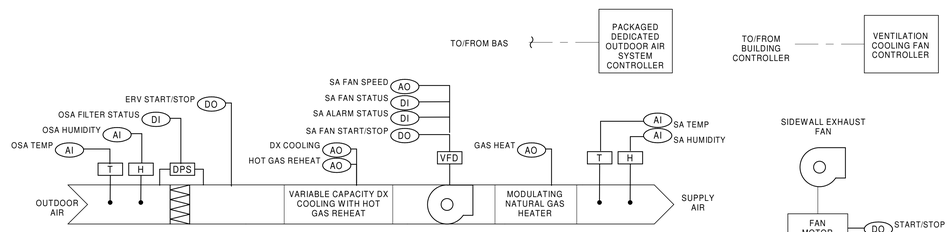
ZONE PURGE: WHEN A ZONE REPORTS 0 ACTIVE WELDERS, ITS RESPECTIVE ZONE EXHAUST AND SUPPLY DAMPERS REMAIN OPEN FOR A 15-MINUTE BACNET DELAY TIMER TO CLEAR OUT REMAINING HAZARDOUS GASES.

MAIN FAN RAMP DOWN: ONCE ALL 6 ZONES ARE INACTIVE FOR 15 MINUTES, THE BAS COMMANDS WEF-1 AND THE DOAS VFDS TO RAMP DOWN TO 0HZ.

UNOCCUPIED SEAL: ALL 6 LARGE ZONE DAMPERS AND THE MAIN DOAS OUTSIDE AIR DAMPER DRIVE 100% CLOSED TO SEAL THE BUILDING ENVELOPE.

1 WELDING VENTILATION (DOAS-1/SEF-1/WEF-1 THRU 6) CONTROLS

1/8" = 1'-0"



DOAS-2 MAKEUP AIR SYSTEM SEQUENCE OF OPERATION

BAS SHALL COMMUNICATE SCHEDULED SPACE OCCUPANCY TO BE EITHER OCCUPIED OR UNOCCUPIED WITH MANUAL TIMED OVERRIDE.

IN OCCUPIED MODE, DEDICATED OUTDOOR AIR SYSTEM CONTROLLER SHALL ENERGIZE SUPPLY FANS, VARIABLE CAPACITY DX COOLING, MODULATING HOT GAS REHEAT, AND MODULATING NATURAL GAS HEAT IN SEQUENCE TO MAINTAIN ADJUSTABLE DISCHARGE AIR TEMPERATURE (75 DEG DB) AND HUMIDITY (50% RH) SETPOINTS AT MINIMUM SCHEDULED AIRFLOW.

SPACE PRESSURE CONTROL

CONTROLLER SHALL MODULATE FAN SPEED TO MAINTAIN MINIMUM ADJUSTABLE SPACE PRESSURE SETPOINT (-0.1" WG).

FREEZE PROTECTION: IF THE DOAS ENTERING AIR TEMPERATURE DROPS BELOW 38°F, THE DOAS CONTROLLER OVERRIDES THE TRACKING SPEED LOOP, OPENS ITS HEATING VALVE TO 100%, AND CLOSES THE OUTDOOR AIR DAMPER TO PROTECT COILS FROM FREEZING.

DEDICATED OUTDOOR AIR SYSTEM CONTROLLER SHALL COMMUNICATE FAN STATUS, SUPPLY AIR TEMPERATURE AND HUMIDITY, AND DIRTY FILTER ALARMS TO BAS.

P — AI — SPACE PRESSURE

VENTILATION COOLING SEQUENCE OF OPERATION

ADV. MANUF. AND INDUSTRIAL MAINT. GENERAL VENTILATION:
INTERLOCK EXHAUST FAN, SEF-2 WITH DOAS-2 TO ACTIVATE DURING OCCUPIED HOURS.

ADDITIONALLY, BAS SHALL ENERGIZE DOAS AND EXHAUST FAN TO MAINTAIN ADJUSTABLE SPACE TEMPERATURE SETPOINT (80 DEG F).

EXHAUST FAN SHALL INCLUDE TIME DELAY FOR INTERLOCKED DOAS TO PROVE SUPPLY FAN STATUS PRIOR TO ENERGIZING EXHAUST FAN MOTOR.

CONTROLLER SHALL COMMUNICATE SUPPLY AND EXHAUST FAN STATUS TO BAS.

2 ADV MANF./ INDUSTRIAL MAINTENANCE VENTILATION (DOAS-2/SEF-2) CONTROLS

NOT TO SCALE

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MECHANICAL CONTROLS II
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COMPONENT IDENTIFICATION		COMPONENT IMPORTANCE FACTOR (Ip)			
		1.0		1.5	
		SEISMIC RESTRAINT REQUIREMENT	ASCE 7 REFERENCE	SEISMIC RESTRAINT REQUIREMENT	ASCE 7 REFERENCE
ROOF MOUNTED		RESTRAIN ALL (SEE NOTE 1,2)	13.1.4.6	RESTRAIN ALL (SEE NOTE 1)	13.1.4.6
FLOOR MOUNTED		RESTRAIN ALL (SEE NOTES 1,2)	13.1.4.6	RESTRAIN ALL (SEE NOTE 1)	13.1.4.6
WALL MOUNTED		RESTRAIN ALL (SEE NOTE 1,2)	13.1.4.6	RESTRAIN ALL (SEE NOTE 1)	13.1.4.6
COMPONENT SUPPORTS		RESTRAIN ALL (SEE NOTE 1)	13.6.4	RESTRAIN ALL (SEE NOTE 1)	13.6.4
SUSPENDED EQUIPMENT	INLINE W/ DUCT	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN. (SEE NOTE 3)	13.6.6	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN. (SEE NOTE 3)	13.6.6
	NOT INLINE W/ DUCT	RESTRAIN ALL (SEE NOTE 1)	13.1.4.6	RESTRAIN ALL	13.1.4.6
SUSPENDED DUCTILE PIPING (STEEL, ALUMINUM, COPPER, ETC.)		RESTRAIN IF > 3" (SEE NOTE 4)	13.6.7.3	RESTRAIN IF > 1"	13.6.7.3
SUSPENDED NON DUCTILE PIPING (CAST IRON, PLASTIC, CERAMIC)		RESTRAIN ALL (SEE NOTE 4)	13.6.7.3	RESTRAIN ALL	13.6.7.3
SUSPENDED PIPE ON TRAPEZE		RESTRAIN IF ANY PIPE ON TRAPEZE > 3" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE ≥ 10 LBS/FT (SEE NOTE 4)	13.6.7.3	RESTRAIN IF ANY PIPE ON TRAPEZE > 1" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE ≥ 10 LBS/FT	13.6.7.3
DUCTWORK		RESTRAIN IF ≥ 6 SQ.FT. OR > 20 LBS/FT (SEE NOTE 4,5)	13.6.6	RESTRAIN IF ≥ 6 SQ.FT. OR > 20 LBS/FT (SEE NOTE 5)	13.6.6
SINGLE CONDUIT		RESTRAIN IF ≥ 2.5"	13.6.5	RESTRAIN IF ≥ 2.5"	13.6.5
CABLE TRAY/BUS DUCT/ TRAPEZED CONDUIT		RESTRAIN IF TOTAL WEIGHT OF RACEWAY ≥ 10 LBS/FT (SEE NOTE 4)	13.6.5	RESTRAIN IF TOTAL WEIGHT OF RACEWAY ≥ 10 LBS/FT	13.6.5
PENDANT, LAY-IN, & CAN LIGHTS		REQUIRED (SEE NOTE 6)	13.5.6.2	REQUIRED (SEE NOTE 6)	13.5.6.2
COMPONENT CERTIFICATION		NOT REQUIRED	13.2.2	REQUIRED (SEE NOTE 7)	13.2.2

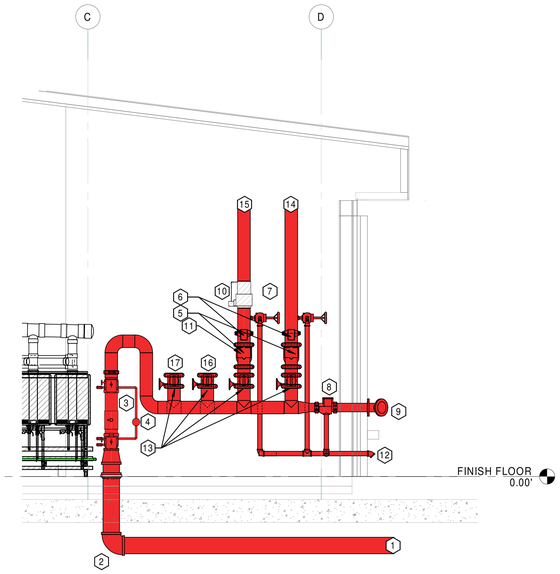
NOTES:
1. EQUIPMENT 20 LBS. OR LESS IS EXEMPT IF THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE.
2. RESTRAINTS ARE NOT REQUIRED IF THE COMPONENT WEIGHTS 400 LBS. OR LESS, IS MOUNTED WITH THE CENTER OF MASS AT 4 FT. OR LESS ABOVE A FLOOR, IS POSITIVELY ATTACHED TO THE STRUCTURE, AND HAS FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
3. FLEXIBLE CONNECTIONS REQUIRED FOR PIPE AND CONDUIT CONNECTIONS ONLY.
4. SEE TABLE 1 FOR ROD HANGER LENGTH EXEMPTION RULES.
5. ALL DUCTWORK, REGARDLESS OF SIZE, DESIGNED TO CARRY TOXIC, HIGHLY TOXIC, OR EXPLOSIVE GASES OR USED FOR SMOKE CONTROL MUST BE RESTRAINED.
6. THE RESTRAINT OF PENDANT, LAY-IN, & CAN LIGHTS IS ADDRESSED IN ASTM C636 & E580.
7. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY ENGINEER OF RECORD AND BUILDING OFFICIAL.

SEISMIC DESIGN CATEGORIES D, E, F

GENERAL NOTES
A. PER THE 2018 INTERNATIONAL BUILDING CODE, MECHANCIAL, PLUMBING AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7-16.
B. EXTERIOR EQUIPMENT (INCLUDING ROOF CURBS, RAILS, SUPPORTS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH CHAPTERS 26 TO 29 OF ASCE 7-16.
C. WHERE DESIGN FOR SEISMIC IN ADDITION TO WIND LOADS IS REQUIRED, THE MORE DEMANDING FORCE MUST BE USED.
D. REFERENCE THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, WIND SPEEDS, ETC.
E. SEE EQUIPMENT SCHEDULES AND DETAILS FOR SPECIFIC COMPONENT IMPORTANCE FACTOR DESIGNATIONS.
F. USE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH COMPONENT.
G. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL.
H. WHERE SEISMIC RESTRAINT IS REQUIRED, HOUSEKEEPING PADS NEEDED FOR THE INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT MUST BE DESIGNED BY THE SEISMIC ENGINEER. DO NOT POUR ANY HOUSEKEEPING PADS PRIOR TO THE THE RECEIPT OF THE APPROVED SEISMIC SUBMITTAL.
I. SEISMIC RESTRAINTS FOR DUCTWORK, PIPING, CONDUIT, CABLE TRAY AND BUS DUCT MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS.

FIRE PROTECTION GENERAL NOTES:

1. AUTOMATIC SPRINKLER SYSTEM SHALL BE A "DESIGN BUILD" SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECT DESIGN APPLICATION AND CODE COMPLIANCE UNDER LOCAL AND STATE CODE OFFICIAL'S SUBMITTAL AND APPROVAL. THIS LAYOUT IS SHOWN AS A GENERAL APPLICATION AND FOR INDICATION OF TYPE AND LOCATION AREAS TO BE COVERED. THIS LAYOUT IS THE MINIMUM DESIGN AND IS NOT LIMITING.
2. AUTOMATIC SPRINKLER SYSTEMS MUST BE HYDRAULICALLY DESIGNED BY LICENSED FIRE PROTECTION DESIGN PROFESSIONALS, SUBJECT TO OWNER APPROVAL.
3. DESIGN AREAS (I.E., THE AREA IN THE BUILDING USED TO ESTABLISH MINIMUM HYDRAULIC DEMAND REQUIREMENTS) MUST NOT BE REDUCED BELOW 1,500 SQ. FT.
4. A SAFETY FACTOR OF TEN PERCENT MUST BE APPLIED TO HYDRAULIC DEMAND CALCULATIONS.
5. THE ENTIRE BUILDING SHALL BE DESIGNED IN ACCORDANCE WITH NFPA-13 AND NFPA-14.
6. ARRANGE WITH LOCAL AUTHORITY FOR A UTILITY FLOW TEST. DETERMINE AND VERIFY SERVICE ENTRANCE SIZE REQUIREMENT.
7. BACKFLOW ASSEMBLY SHALL BE SUFFICIENT BASED ON FLOW TEST. CONTRACTOR SHALL PROVIDE FINAL CALCULATION TO DETERMINE ACTUAL BACKFLOW ASSEMBLY.
8. DISTANCE BETWEEN FIRE DEPARTMENT CONNECTION AND NEAREST HYDRANT SHALL BE PER LOCAL AUTHORITY HAVING JURISDICTION.
9. EXCEPT FOR AREAS SUBJECT TO FREEZING, WET PIPE-STYLE AUTOMATIC SPRINKLER PROTECTION MUST BE PROVIDED IN ALL AREAS. IN AREAS SUBJECT TO FREEZING, DRY-PIPE OR ANTI-FREEZE STYLE SPRINKLER PROTECTION MUST BE PROVIDED. ELECTRIC HEAT TRACING OF PIPING AND SYSTEM COMPONENTS IS PROHIBITED. RELIABLE MEASURES MUST BE PROVIDED TO MAINTAIN WET PIPE FIRE PROTECTION PIPING AND EQUIPMENT AT A MINIMUM TEMPERATURE OF 40 DEG. F.
10. QUICK RESPONSE (QR) SPRINKLERS MUST BE USED THROUGHOUT AUTOMATIC SPRINKLER SYSTEMS, SUBJECT TO INSTALLATION CRITERIA PUBLISHED BY THE MANUFACTURER.
11. SPRINKLER GUARDS MUST BE PROVIDED IN HIGH MAINTENANCE AREAS AND STORAGE ROOMS.
12. SPRINKLER HEADS SHALL BE LOCATED SYMMETRICALLY IN ROOMS/SPACES. SEE HVAC AND ELECTRICAL DRAWINGS FOR GRILLES, LIGHTS, ETC. AND COORDINATE SPRINKLER HEAD LOCATION AS REQUIRED.
13. PROVIDE AN ELECTRONICALLY SUPERVISED VALVE TAMPER SWITCH FOR EACH SYSTEM CONTROL VALVE. ELECTRICALLY SUPERVISED WATER FLOW SWITCHES MUST BE PROVIDED FOR EACH SYSTEM ZONE AS WELL AS EACH RISER.
14. COORDINATE FIRE SPRINKLER ZONING WITH ELECTRICAL DRAWINGS AND FIRE ALARM SYSTEMS. PROVIDE PIPE TAPS AND WELLS IN SPRINKLER SYSTEM AS REQUIRED FOR COMPLETE CONTROL BY FIRE ALARM SYSTEM TO ENSURE PROPER WORKING SPRINKLER AND FIRE ALARM SYSTEM.
15. AN ALARM TEST CONNECTION NOT LESS THAN 1" IN DIAMETER, TERMINATING IN A SMOOTH BORE CORROSION-RESISTANT ORIFICE, GIVING A FLOW EQUIVALENT TO ONE SPRINKLER OF A TYPE HAVING THE SMALLEST ORIFICE INSTALLED ON THE PARTICULAR SYSTEM, SHALL BE PROVIDED TO TEST EACH WATER FLOW ALARM DEVICE FOR EACH SYSTEM. DISCHARGE DRAIN TO AN APPROPRIATE LOCATION, THROUGH OUTSIDE WALL IF POSSIBLE, OR TO A LARGE FLOOR DRAIN IN A MECHANICAL ROOM, OR JANITOR SINK.
16. ALL VALVES MUST BE ACCESSIBLE. PROVIDE ACCESS DOORS AS REQUIRED WHEN VALVES ARE INSTALLED ABOVE A FIXED CEILING. ACCESS PANELS SHALL BE MUD-IN AT GYP CEILINGS - TYPICAL.
17. PLASTIC PIPING SHALL NOT BE ACCEPTED.
18. FIRE SPRINKLER SHALL COORDINATE WITH HVAC, PLUMBING AND ELECTRICAL CONTRACTORS PRIOR TO INSTALLING ANY PIPING. ANY PIPING THAT IS NOT COORDINATED WITH OTHER TRADES SHALL BE MOVED AT SPRINKLER CONTRACTOR'S EXPENSE.
19. PRIME AND PAINT ALL EXPOSED FIRE SPRINKLER LINES. FINAL COLOR OF FIRE SPRINKLER PIPING SHALL BE DETERMINED BY OWNER. NOTE: PROVIDE (1) COAT PRIMER. (2) COATS FINISH PAINT.
20. FIRE RISER LOCATION AND CONNECTION FOR FIRE DEPARTMENT ARE DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF FIRE RISER AND CONNECTION FOR FIRE DEPARTMENT WITH OWNER AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
21. SPRINKLERS SHALL BE INSTALLED AT THE CENTER OF CEILING TILES.
22. ALL DRAINS SHALL BE EXTENDED AND DAYLIGHTED AT CURB OF PARKING LOT.
23. REFER TO NFPA-13 FOR HAZARD REQUIREMENTS. FINAL HAZARD DETERMINATION TO BE MADE BY AHJ.
24. STORAGE ROOM AREAS SHALL BE DESIGNED TO ORDINARY HAZARD GROUP 1. USE15 GPM FOR THE MOST REMOTE 1,500 SQ. FT. WITH A 250 GPM HOSE STREAM ALLOWANCE. MAXIMUM HEAD COVERAGE NOT TO EXCEED 130 SQ. FT.
25. CONSIDERATION MUST BE GIVEN TO DESIGN AND SYSTEM COMPONENT SELECTION IN AREAS SUBJECT TO FREEZING (INCLUDING UNHEATED INTERIOR BUILDING SPACES), CORROSIVE ATMOSPHERES AND EXPOSURE TO SALT AIR.
26. EXPOSURE TO NATURAL HAZARDS MUST BE INCLUDED IN THE DESIGN AND INSTALLATION OF SYSTEMS AS WARRANTED INCLUDING SEISMIC LOADS, FLOOD EXPOSURE AND TORNADOS.
27. A MINIMUM INTERIOR HOSE DEMAND OF 100 GPM MUST BE INCLUDED IN HYDRAULIC DEMAND CALCULATIONS.
28. REFER TO STRUCTURAL ENGINEERING CONTRACT DOCUMENTS FOR PROJECT SEISMIC DESIGN CRITERIA. PROVIDE VIBRATION ISOLATION AND SEISMIC RESTRAINT SYSTEMS FOR EQUIPMENT AND PIPING AS REQUIRED.



1 FIRE PROTECTION RISER, TYP. EQUIPMENT
3/8" = 1'-0"

FIRE RISER EQUIPMENT NOTES:

1. CONNECTION TO UTILITY ROUTED BELOW FOOTERS.
2. PROVIDE THRUST BLOCK PER NFPA 24.
3. INDICATING CONTROL VALVE WITH TAMPER SWITCH.
4. DOUBLE CHECK VALVE ASSEMBLY. ESTIMATED SIZE: 8"
5. ALARM CHECK VALVE.
6. FLOW SWITCH.
7. HYDRAULIC CALCULATION INFORMATION TO BE PERMANENTLY ATTACHED TO PIPE.
8. CHECK VALVE WITH BALL; DRIP PIPED TO SYSTEM DRAIN.
9. FIRE DEPARTMENT SIAMESE CONNECTION ON BUILDING EXTERIOR WALL.
10. FP-AC-1: RISER MOUNTED AIR COMPRESSOR. COORDINATE POWER WITH ELECTRICAL.
11. DRY PIPE VALVE -VIC, SERIES 768
12. 2" MAIN DRAIN WITH 1" TEST AND DRAIN ASSEMBLY. PIPE MAIN DRAIN THROUGH WALL ABOVE GRADE WITH 45° TURN DOWN AND INSECT SCREEN. SLEEVE AND CAULK WALL WATER TIGHT.
13. ISOLATION VALVE.
14. TO WET PIPE SYSTEM
15. TO DRY PIPE SYSTEM
16. RESERVED FOR FUTURE PHASE II WET PIPE SYSTEM ZONE
17. RESERVED FOR FUTURE PHASE II DRY PIP SYSTEM ZONE.

GENERAL NOTES:

1. ALL DIMENSIONS ARE APPROXIMATE. FINAL RISER SIZE SHALL BE COORDINATED WITH OTHER TRADES USING FIRE PROTECTION VENDOR SHOP DRAWINGS.
2. FINAL DETERMINATION FOR REQUIREMENT FOR FIRE PUMP AND OR STANDPIPE SHALL BE BY FP VENDOR BASED ON HYDRAULIC CALCULATIONS.

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FIRE PROTECTION NOTES AND DETAIL
FP1.0

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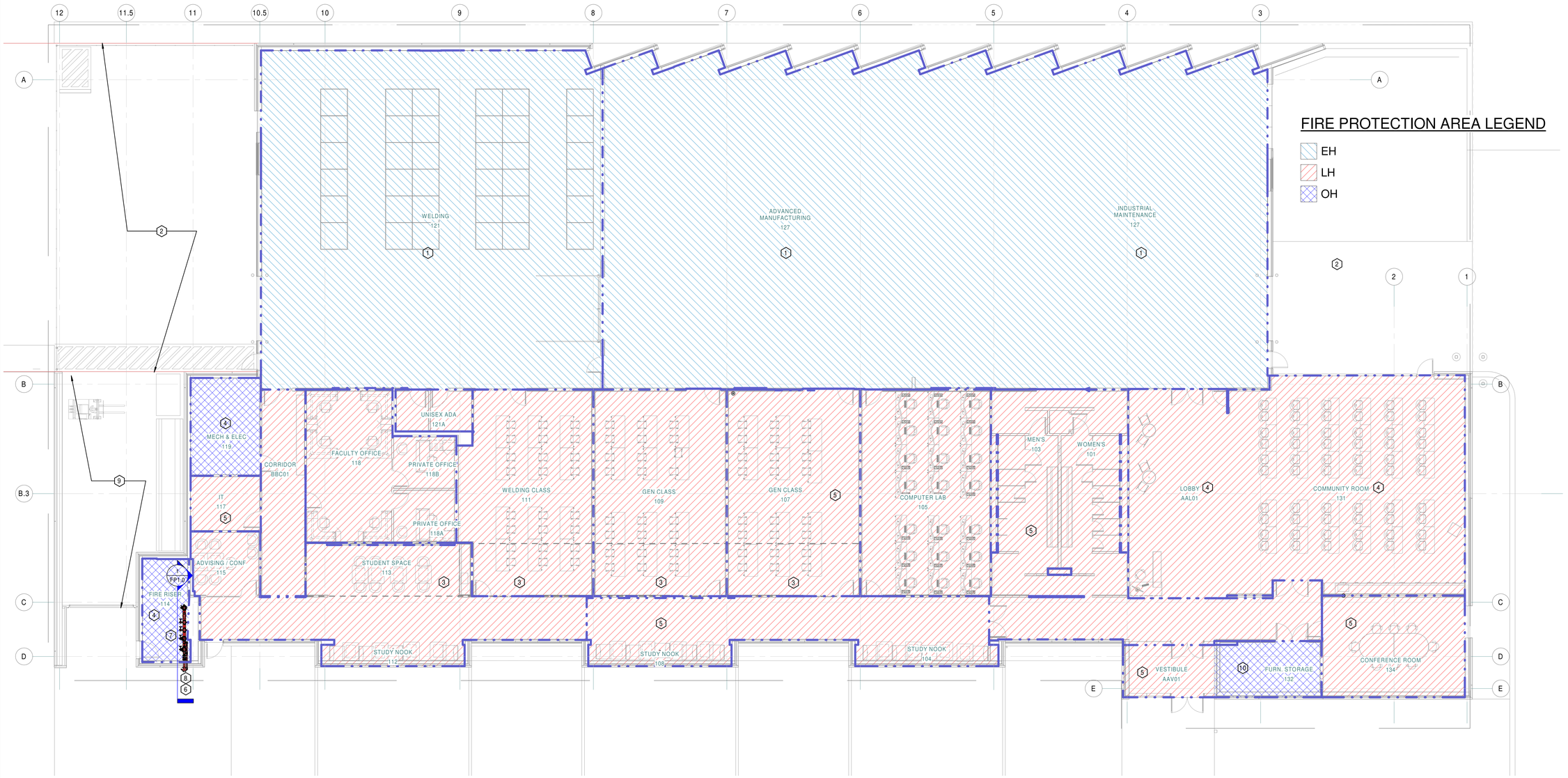

FIRE PROTECTION AREA LEGEND

- EH
- LH
- OH

1 FIRE PROTECTION OVERALL FLOOR PLAN

1/8" = 1'-0"

NORTH

 # KEYED NOTES:

1. INDUSTRIAL AREA ESTIMATED AT EXTRA HAZARD CLASSIFICATION. FINAL DETERMINATION BY FIRE SPRINKLER ENGINEER AND AHJ. PROVIDE WHITE EXPOSED SPRINKLER HEADS. ROUTE TIGHT TO STRUCTURE.
2. COVERED AREA TO BE PROVIDED WITH DRY PIPE SYSTEM AT CLASSIFICATION SIMILAR TO ADJACENT SPACE. PROVIDE RED CUSTOM COLOR CONCEALED FIRE SPRINKLER HEADS TO MATCH CANOPY TO EXTENTS SHOWN.
3. COORDINATE FIRE SPRINKLER LOCATIONS AND FIRE PIPE ROUTING CAREFULLY WITH LIGHT MONITOR THIS AREA (EXTENTS SHOWN DASHED). REFER TO ARCHITECTURAL SECTION FOR SPRINKLER MOUNTING. PROVIDE WHITE SPRINKLER HEADS. FULLY CONCEAL PIPING.
4. PROVIDE BLACK EXPOSED SPRINKLER HEADS ABOVE WOOD PLANK CEILINGS AND OVER SPACES EXPOSED TO STRUCTURE AS INDICATED.
5. PROVIDE WHITE CONCEALED SPRINKLER HEADS AT LAY-IN AND GYP CEILINGS THROUGHOUT, UNLESS NOTED OTHERWISE.
6. FIRE PROTECTION ENTRANCE FROM SITE. COORDINATE WITH CIVIL.
7. PROVIDE FIRE RISER WITH WET AND DRY PIPE SYSTEM ZONES FOR PHASE 1 AS WELL AS SIMILAR SIZE ZONES FOR FUTURE PHASE 2.
8. PROVIDE WALL MOUNT FDC THIS LOCATION.
9. COVERED AREA TO BE PROVIDED WITH DRY PIPE SYSTEM AT CLASSIFICATION SIMILAR TO ADJACENT SPACE. PROVIDE WHITE CONCEALED FIRE SPRINKLER HEADS TO MATCH CANOPY TO EXTENTS SHOWN.
10. PROVIDE WHITE EXPOSED SPRINKLER HEADS THIS SPACE.

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FIRE PROTECTION FLOOR PLAN
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PLUMBING LEGEND

ABBREVIATION OR SYMBOL	DESCRIPTION
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWC	DOMESTIC HOT WATER RETURN
SS	SANITARY SEWER
GW	SANITARY - GREASE WASTE
AW	SANITARY - ACID WASTE
SD	STORM DRAIN
V	VENT
G	NATURAL GAS
CD	CONDENSATE DRAIN
W	WELDING GAS

VALVING

BFV BFV	BUTTERFLY VALVE (lever operator)
BFV BFV	BUTTERFLY VALVE (wheel operator)
GV GV	GATE VALVE
CHK CHK	CHECK VALVE
PV PV	PLUG VALVE
ST ST	STRAINER (Y-TYPE)
BV BV	BALL VALVE

* NOT ALL SYMBOLS MAY APPLY TO THIS PROJECT

ABBREVIATION OR SYMBOL	DESCRIPTION
	FLEXIBLE PIPING
	EXISTING PIPING TO REMAIN (refer to line designation)
	EXISTING TO BE REMOVED (back to point indicated)
	CONNECT TO EXISTING
FL. -1.21' -1.00' TOP -0.75'	BELOW GRADE PIPING (fine dash)
	PIPE ELEVATION CALLOUTS

THREADED WATER & GAS PIPING

	PIPE DOWN
	PIPE UP
	THREADED TEE DOWN
	THREADED TEE UP
	BRANCH - BOTTOM OF PIPE
	BRANCH - TOP OF PIPE
	90 DEGREE ELBOW
	45 DEGREE ELBOW
	TEE
	UNION

ABBREVIATION OR SYMBOL	DESCRIPTION
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
FFE	FINISH FLOOR ELEVATION
FL	FLOW LINE
PRV	PRESSURE REDUCING VALVE
ToP	TOP OF PIPE
	PIPE PENETRATION (through floor/wall/etc)
	DCW ROUGH-IN
	DHW ROUGH-IN

LONG RADIUS SEWER & VENT PIPING

	PIPE DOWN
	PIPE UP
	PIPE WYE DOWN
	PIPE WYE UP
	BRANCH - BOTTOM OF PIPE
	BRANCH - TOP OF PIPE
	ELBOW
	45 DEGREE ELBOW
	WYE WITH EIGHTH BEND
	UNION

SEISMIC DESIGN NOTES:

1. BUILDING RISK CATEGORY: **CATEGORY II**
2. SEISMIC DESIGN CATEGORY: D
3. ALL PLUMBING SYSTEMS AND EQUIPMENT CONVEYING TOXIC, EXPLOSIVE, OR HAZARDOUS MATERIALS SHALL BE SUPPORTED IN ACCORDANCE WITH ASCE 7-16 REQUIREMENTS. THESE SYSTEMS INCLUDE:
   A. NATURAL GAS PIPING ABOVE GRADE, INCLUDING GAS METER AND GAS-FIRED EQUIPMENT.
   B. WELDING GAS PIPING OTHER THAN INERT GASES.
4. DISTRIBUTED PLUMBING SYSTEMS OF SUFFICIENT SIZE OR WEIGHT, AS DEFINED BY ASCE 7 CHAPTER 13, SHALL ALSO BE PROVIDED WITH SEISMIC SUPPORTS.
5. FINAL DETERMINATION OF SEISMIC DESIGN PARAMETER SHALL BE PER STRUCTURAL DOCUMENTS.

PLUMBING GENERAL NOTES:

1. ALL PLUMBING WORK SHALL COMPLY WITH ALL LOCAL CODES, AUTHORITIES HAVING JURISDICTION, DRAWINGS AND SPECIFICATIONS. IF DISCREPANCIES ARE FOUND - THE MOST STRINGENT REQUIREMENT SHALL GOVERN WORK.
2. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRIC RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, FITTING, OR COMPONENT. CONTRACTOR SHALL NOT SCALE DRAWINGS. EQUIPMENT SCHEDULES SHALL TAKE PRECEDENCE OVER CONFLICTING DRAWING INFORMATION. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY CONTRACT DOCUMENTS. REFER TO COMPLETE PROJECT DOCUMENTS FOR COORDINATION WITH OTHER DISCIPLINES.
3. EXCEPT WHERE MODIFIED BY SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY ITEM IN THE DRAWINGS OR SPECIFICATIONS CARRIES WITH IT THE INSTRUCTION TO PROVIDE THE ITEM, REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED AS PART OF THE INDICATION OR DESCRIPTION.
4. REFER TO PLUMBING SCHEDULES AND SPECIFICATIONS FOR BASIS OF DESIGN, ACCEPTABLE MANUFACTURERS, AND MODELS OF PLUMBING FIXTURES AND EQUIPMENT.
5. PROVIDE CLEANOUTS IN ALL SANITARY LINES, WHETHER SHOWN OR NOT, AT INTERVALS NOT TO EXCEED 100' AND AT EACH CHANGE IN DIRECTION GREATER THAN 45 DEGREES.
6. PROVIDE A TWO-WAY CLEANOUT AT THE JUNCTION OF ALL BUILDING DRAINS AND BUILDING SEWERS.
7. REFER TO SPECIFICATIONS FOR INSULATION REQUIREMENTS.
8. ALL SANITARY SEWER LINES 2 1/2" AND SMALLER SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT. ALL SANITARY LINES 3" AND LARGER SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT. VERIFY EXISTING SANITARY LINE ELEVATIONS AND COORDINATE INSTALLATION TO ASSURE PROPER FLOW. ALL GREASE WASTE LINES, REGARDLESS OF SIZE, SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT.
9. SEAL ALL PIPE PENETRATIONS THROUGH WALLS, ROOF, AND FLOOR AIR AND WATER TIGHT.
10. ALL FLOOR DRAINS SHALL HAVE DEEP SEAL TRAPS, 4" DEEP SEAL MINIMUM UNLESS NOTED OTHERWISE. PROVIDE A TRAP GUARD EQUAL TO PROSET OR SURE SEAL SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS FOR ALL FLOOR DRAINS.
11. ALL PIPE DROPS FROM CEILING PLENUM TO BELOW FLOOR SHALL BE MADE IN FURR-OUTS AT COLUMNS, IN WEBB OF BEAMS AT COLUMNS, OR IN WALLS UNLESS SHOWN OTHERWISE.
12. ALL EXPOSED OR ACCESSIBLE P-TRAPS SHALL BE CHROME PLATED AND PROVIDED WITH BOTTOM CLEANOUT PLUGS. ALL EXPOSED PLUMBING TRIM SHALL BE CHROME PLATED.
13. PROVIDE TIGHT-FITTED MOLDED PLASTIC INSULATION AT ALL EXPOSED WATER AND DRAIN PIPING FOR ADA FIXTURES PER ANSI A117.1 AND ADA REQUIREMENTS. FINISH SHALL BE WHITE.
14. ALL DOMESTIC WATER SHALL BE ROUTED ABOVE CEILING. ALL DOMESTIC WATER ROUTED IN EXTERIOR WALLS SHALL BE INSTALLED ON CONDITIONED SIDE OF ROOM INSULATION.
15. MAINTAIN A MINIMUM OF 10'-0" BETWEEN ALL HVAC FRESH AIR INTAKES AND PLUMBING VENTS. COORDINATE WITH MECHANICAL BEFORE INSTALLATION OF VTRs.
16. CONTRACTOR SHALL VISIT SITE AND VERIFY CONDITIONS PRIOR TO BIDDING.
17. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF UTILITIES AND INVERTS PRIOR TO ROUTING SERVICES. CONTRACTOR SHALL COORDINATE ALL SANITARY SEWER, FIRE, GAS AND DOMESTIC WATER LINES WITH CIVIL DRAWINGS. SEE CIVIL DRAWINGS FOR CONTINUATION OF ALL UTILITY LINES.
18. CONTRACTOR SHALL PAY ALL UTILITY FEES AND CHARGES IN THE CONTRACT.
19. PROVIDE ALL FITTINGS, TRANSITIONS, COUPLINGS, ADAPTORS, UNIONS, AND OTHER ACCESSORIES NEEDED TO COMPLETE CONNECTIONS AND PROVIDE FOR PROPER OPERATION OF PLUMBING FIXTURES AND PLUMBING EQUIPMENT.
20. FIRE STOP ALL PIPE PENETRATIONS THROUGH RATED WALLS. REFER TO SPECIFICATIONS.
21. PIPING SHALL NOT BE ROUTED OVER ELECTRICAL ROOMS, COMPUTER ROOMS, ELECTRICAL PANELS, OR ELECTRICAL EQUIPMENT UNLESS OTHERWISE NOTED.
22. PROVIDE LEAD-FREE PRESSURE REDUCING VALVE AT DOMESTIC ENTRANCE TO PROVIDE ADEQUATE PRESSURE AT ALL OUTLETS IN ACCORDANCE WITH THE SYSTEM REQUIREMENTS.
23. EACH FIXTURE GROUP OR BATTERY OF FIXTURES SHALL BE PROVIDED WITH A SHUTOFF VALVE IN THE DOMESTIC HOT AND COLD WATER SUPPLY LINES ABOVE CEILING. VALVES SHALL BE ACCESSIBLE FROM ROOM BELOW.
24. PAINT EXPOSED PIPING AND PIPE INSULATION. COORDINATE WITH OWNER FOR FINAL COLOR.
25. ALL UNDER FLOOR WATER PIPING SHALL BE PROVIDED WITH A POLYETHYLENE SLEEVE. EXTEND SLEEVE UP THROUGH FLOOR SLAB AND SEAL AIR AND WATER TIGHT.
26. PLASTIC PIPE IS PROHIBITED IN RETURN AIR PLENUMS. ALL PIPING AND PIPE CONNECTIONS IN RETURN AIR PLENUMS SHALL BE PLENUM RATED.
27. PIPING THROUGH FOUNDATION WALLS AND FOOTINGS SHALL BE SLEEVED AS PER STRUCTURAL DETAILS.
28. ALL PIPE CONNECTIONS BETWEEN DISSIMILAR METALS SHALL BE MADE THROUGH DIELECTRIC UNIONS.
29. ALL PLUMBING COMPONENTS WITH ELECTRICAL REQUIREMENTS SHALL BE INSTALLED WITH THE ELECTRICAL INFRASTRUCTURE NECESSARY TO PROVIDE A FULLY FUNCTIONING SYSTEM. IF NOT SPECIFICALLY SHOWN ON ELECTRICAL SCHEDULE, PLUMBING FIXTURES REQUIRING ELECTRICAL SERVICE SHALL BE FED FROM BREAKER OF ADEQUATE CAPACITY.
30. REFER TO PLUMBING SPECIFICATIONS FOR PIPE MATERIAL AND INSULATION REQUIREMENTS.
31. EXACT LOCATION OF ALL EQUIPMENT AND PIPING SHALL BE COORDINATED WITH OTHER TRADES. CEILING MOUNTED SPRINKLER AND LIGHTING SHALL TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL REQUIREMENTS.
32. PROVIDE FABRICATED EXPANSION LOOP OR MANUFACTURED EXPANSION DEVICE ON ALL PIPING SYSTEMS CROSSING BUILDING EXPANSION JOINTS.
33. WATER SUPPLY CONNECTIONS TO COFFEE MACHINES AND NONCARBONATED BEVERAGE DISPENSERS SHALL BE PROVIDED WITH A BACKFLOW PREVENTER OR AN AIR GAP.

PLUMBING -- FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	ACCESSORIES	FAUCETS & FITTINGS	STOPS	TRAPS	MOUNTING	BRANCH CONNECTIONS DCW	BRANCH CONNECTIONS DHW	BRANCH CONNECTIONS SS	REMARKS
AC-1	AIR COMPRESSOR (ROTORY SCREW)	GARDNER DENVER	L37RS									50 HP, OIL/WATER SEPARATOR
AD-1	AIR DRYER (REFRIGERATED)	GARDNER DENVER	RGD-250A4FP									AIR COOLED. FILTER PACKAGE
D1	DOWNSPOUT NOZZLE WITH PERFORATED COVER	MIFAB	R1960	-	-	-	-	WALL			6"	BRASS FINISH
ECO	EXTERIOR CLEANOUT	ZURN	Z-1400-BP-VP	-	CAST IRON COVER	-	-	GRADE			<varies>	
FCO-HD	FLOOR CLEANOUT - HEAVY DUTY	ZURN	ZN-1400-BP-HD-VP	-	EXTRA HEAVY DUTY NB COVER	-	-	FLOOR			<varies>	COVER SHALL BE NICKEL BRONZE, RATED EXTRA HEAVY DUTY.
FD	FLOOR DRAIN	ZURN	Z415-3NL-6B	TRAP GUARDS	6" ROUND N.B. STRAINER	-	DEEP SEAL P-TRAP	FLOOR			3"	VERIFY LOCATIONS WITH ARCHITECTURAL DRAWINGS. ALL FLOOR DRAINS SHALL BE ACCESSORIZED FOR VANDAL PROOF INSTALLATION AND SHALL HAVE 'PRO-SET' TRAP GUARDS.
FD2	HUB DRAIN	ZURN	Z1870	-	-	-	-	-			2"	
FPWH	NON-FREEZE WALL HYDRANT	ZURN	Z-1300	-	-	-	-	WALL	3/4"		2"	NICKEL BRONZE FACE, INTEGRAL BACKFLOW PREVENTER,LOOSE KEY
FS	FLOOR SINK 12 INCH SQUARE x 6 INCH DEEP	WATTS	FS-733	HALF GRATE	-	-	DEEP SEAL P-TRAP	FLOOR			3"	
HB	WALL HYDRANT	WOODFORD MANUFACTURING COMPANY	B79	-	-	-	-	WALL	3/4"			BOX TYPE, WITH ASSE 12052 HIGH FLOW DOUBLE CHECK BACKFLOW PREVENTER. 3/4 INCH INLET AND OUTLET. 360 DEGREE INLET ORIENTATION. POLISHED BRASS FINISH. LOOSE KEY.
P1	WALL HUNG WATER CLOSET	AMERICAN STANDARD	3351.101	500LB-RATED WALL CARRIER; SEAT	REGAL 111	INTEGRAL	INTEGRAL	WALL	1"		4"	INSTALL HANDLE ON WIDE SIDE OF STALL. WALL HUNG WATER CLOSETS IN ADA STALLS SHALL BE HUNG AT ADA HEIGHT, REFER TO ARCHITECTURAL FOR ADA STALL LOCATIONS.
P3	URINAL	AMERICAN STANDARD	6590.001	-	REGAL 186	INTEGRAL	INTEGRAL	WALL	1"		2"	REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND LOCATION OF ADA URINALS.
P4	LAVATORY - INTEGRAL	-	-	ACORN T-70 TMV, GRID DRAIN	T&S B-2990-WH4	MCGUIRE COMMERCIAL	MCGUIRE COMMERCIAL	INTEGRAL	1/2"	1/2"	2"	PROVIDE TRUEBRO LAVGUARD AS REQUIRED. FAUCET SHALL BE ADA COMPLIANT, WITH 5" SPOUT REACH (MINIMUM).
P6	TERRAZZO SERVICE SINK	STERN WILLIAMS	SB-900	'T-40' MOP HANGER, 'T-35' HOSE, AND 'BP' STAINLESS STEEL BACK SPLASH PANELS	T&S B-0665-BSTP	INTEGRAL	MCGUIRE COMMERCIAL	FLOOR	3/4"	3/4"	3"	
P7	WASHFOUNTAIN	BRADLEY CORP	WF2703-A-STD-CLC-F-TMA	THERMOSTATIC MIXING VALVE.	-	MCGUIRE COMMERCIAL	MCGUIRE COMMERCIAL	FLOOR	1"	1"	2"	36 INCH SEMI-CIRCULAR WITH 9 INCH DEEP BOWL, FOOT PEDAL ACTIVATED
P8	SAFETY STATION WITH EYEWASH	GUARDIAN	G1991BC	G6040 TMV	-	BALL VALVES (LOCK OPEN)	P-TRAP (EYEWASH)	FLOOR	1 1/4"	1 1/4"	2"	STAINLESS STEEL, EYEWASH COVER
P9	SINGLE BOWL DROP IN	JUST MFG	SLADA2125A55-J	(1) J-35 SSF; BASKET STRAINER	T&S B-1142-04-CR	MCGUIRE COMMERCIAL	MCGUIRE COMMERCIAL	COUNTER	1/2"	1/2"	2"	
P10	DRINKING FOUNTAIN	ELKAY	LZWS-LRPBM28K	WALL CARRIER	-	MCGUIRE COMMERCIAL	MCGUIRE COMMERCIAL	WALL	1/2"		2"	BOTTLE FILLER, FILTERED, STAINLESS STEEL
P11	WATER DISPENSER (ADA)	ELKAY	LBWDC00BKC	-	-	MCGUIRE COMMERCIAL	MCGUIRE COMMERCIAL	WALL				FILTERED, INWALL, NON-REFRIGERATED, HANDS FREE ACTIVATION. 115V/60HZ
P12	LAVATORY - WALL MOUNT	AMERICAN STANDARD	0355.012	ACORN T-70 TMV, GRID DRAIN	T&S B-2990-WH4	MCGUIRE COMMERCIAL	MCGUIRE COMMERCIAL	WALL MOUNT	1/2"	1/2"	2"	PROVIDE WALL ARM CARRIER
P13	HOSE REEL	GRACO	SDL25D	-	-	BALL VALVE	-	WALL				
P14	ICE MAKER SUPPLY	IPS CORPORATION	88158	-	-	INTEGRAL	-	WALL	1/2"			
P15	SAFETY STATION WITH EYEWASH	GUARDIAN	GFR3100	HEAT TRACE, FREEZE PROTECTION VALVE, G6040 TMV	-	BALL VALVES (LOCK OPEN)	P-TRAP (EYEWASH)	FLOOR	1 1/4"	1 1/4"	2"	
R1	ROOF AND OVERFLOW DRAIN	ZURN	Z164	-	-	-	-	ROOF			4"	12" DIA, DURA COATED CAST IRON, DOUBLE TOP-SET DECK PLATE, LOW SILHOUETTE DOMES, STATIC EXTENSION.
R2	ROOF HYDRANT	WOODFORD	SRH-MS	MOUNTING SYSTEM	-	BALL VALVE	-	ROOF	1"			PROVIDE HARDWARE TO MOUNT TO ROOF

1 ALL FIXTURES SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION.
2 CONTRACTOR IS RESPONSIBLE FOR COORDINATING FAUCET SPACING AND STYLE WITH MOUNTING HOLES IN FIXTURE.
3 ALL FIXTURES WITH HOT WATER FEEDS SHALL BE PROVIDED WITH THERMOSTATIC MIXING VALVE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION. HANDWASH FIXTURES SHALL HAVE TMVs SET TO 105°F.
4 CONTRACTOR SHALL INSTALL ALL PLUMBING FIXTURES IN COMPLIANCE WITH ALL APPLICABLE CODES AND ALL AUTHORITIES HAVING JURISDICTION.

PLUMBING -- WATER HEATER SCHEDULE

TAG	MARK	QUANTITY	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING	BRANCH CONNECTIONS DCW	BRANCH CONNECTIONS DHW	SYSTEM TEMPERATURES DESIGN EWT	SYSTEM TEMPERATURES DESIGN LWT	SYSTEM TEMPERATURES FLOW RATE (@ MAX DELTA T)	GAS HEAT GAS HEATING INPUT	ELECTRICAL DATA VOLTAGE (V)	ELECTRICAL DATA PHASE	ELECTRICAL DATA WATTAGE	REMARKS
WH	1	1	TANKLESS WATER HEATER	RINNAI	CX199iN	WALL	3/4"	3/4"	50 °F	140 °F	4.5 GPM	199,000 Btu/h	120 V	1	0.1 kW	PROVIDE NEUTRALIZATION TANK FOR WATER HEATER ARRAY.
WH	2	3	WALL-MOUNT TANKLESS RACK SYSTEM	RINNAI	(2) CX199iN	WALL	3/4"	3/4"	50 °F	140 °F	9.0 GPM	398,000 Btu/h	120 V	1	0.1 kW	PROVIDE NEUTRALIZATION TANK FOR WATER HEATER ARRAY.
WH	3	2	ELECTRIC POU WATER HEATER	EEMAX	SPEX3512T	WALL	1/2"	1/2"	50 °F	105 °F	1.0 GPM		120 V	1	3.5 kW	68 DEGREE RISE @ 0.35 GPM

1 PROVIDE CONDENSATE NEUTRALIZER EQUAL TO JJM ALKALINE TECH MODEL NB2. FILL WITH NEUTRALIZING MEDIA BEFORE ACTIVATING WATER HEATER. CONDENSATE PIPING SHALL BE PVC OR CPVC.

PLUMBING -- PUMP SCHEDULE

DESIGNATION		DESCRIPTION	MANUFACTURER	MODEL	MOTOR HORSEPOWER	FLOW	TOTAL HEAD	VOLTAGE	PHASE	POWER	REMARKS
RP	1	HIGH HEAD DHW CIRCULATOR	BELL & GOSSETT	ECOCIRC XL N 36-45	1/6	5 GPM	10.0 ftH2O	115 V	1	200 W	SHALL HAVE STAINLESS STEEL BODY, ISOLATION VALVES, FLANGED CONNECTIONS, AND WALL MOUNT BRACKET. PUMP SHALL HAVE INTEGRAL TIMER AND AQUASTAT FUNCTIONALITY; SET FOR 10°F DELTA T, AND OPERATION DURING OCCUPIED HOURS ONLY.

ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER
JONESBORO, ARKANSAS

REVISIONS:

100% CONSTRUCTION DOCUMENTS
05-18-2026

PLUMBING NOTES, SCHEDULES, LEGEND
P1.0

BROWN ENGINEERS, LLC — STATE OF ALABAMA — No. 13237 — PROFESSIONAL ENGINEER

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SEISMIC DESIGN NOTES:

1. BUILDING RISK CATEGORY: **CATEGORY II**
2. SEISMIC DESIGN CATEGORY: D
3. ALL PLUMBING SYSTEMS AND EQUIPMENT CONVEYING TOXIC, EXPLOSIVE, OR HAZARDOUS MATERIALS SHALL BE SUPPORTED IN ACCORDANCE WITH ASCE 7-16 REQUIREMENTS. THESE SYSTEMS INCLUDE:
   A. NATURAL GAS PIPING ABOVE GRADE, INCLUDING GAS METER AND GAS-FIRED EQUIPMENT.
   B. WELDING GAS PIPING OTHER THAN INERT GASES.
4. DISTRIBUTED PLUMBING SYSTEMS OF SUFFICIENT SIZE OR WEIGHT, AS DEFINED BY ASCE 7 CHAPTER 13, SHALL ALSO BE PROVIDED WITH SEISMIC SUPPORTS.
5. FINAL DETERMINATION OF SEISMIC DESIGN PARAMETER SHALL BE PER STRUCTURAL DOCUMENTS.

TOOLS FOR SEISMIC RESTRAINT

SEISMIC AND WIND REQUIREMENTS RISK CATEGORIES I, II, III, & IV INFORMATION FOR IBC-2018 / ASCE 7-16

SEISMIC DESIGN CATEGORIES A, B

GENERAL NOTES

A. PER THE 2018 INTERNATIONAL BUILDING CODE, MECHANCIAL, PLUMBING AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7-16.
B. EXTERIOR EQUIPMENT (INCLUDING ROOF CURBS, RAILS, SUPPORTS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH CHAPTERS 26 TO 29 OF ASCE 7-16.
C. WHERE DESIGN FOR SEISMIC IN ADDITION TO WIND LOADS IS REQUIRED, THE MORE DEMANDING FORCE MUST BE USED.
D. REFERENCE THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, WIND SPEEDS, ETC.
E. SEE EQUIPMENT SCHEDULES AND DETAILS FOR SPECIFIC COMPONENT IMPORTANCE FACTOR DESIGNATIONS.
F. USE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH COMPONENT.
G. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL.
H. WHERE SEISMIC RESTRAINT IS REQUIRED, HOUSEKEEPING PADS NEEDED FOR THE INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT MUST BE DESIGNED BY THE SEISMIC ENGINEER. DO NOT POUR ANY HOUSEKEEPING PADS PRIOR TO THE THE RECEIPT OF THE APPROVED SEISMIC SUBMITTAL.
I. SEISMIC RESTRAINTS FOR DUCTWORK, PIPING, CONDUIT, CABLE TRAY AND BUS DUCT MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS.

COMPONENT IDENTIFICATION	COMPONENT IMPORTANCE FACTOR (Ip)			
	1.0		1.5	
	SEISMIC RESTRAINT REQUIREMENT	ASCE 7 REFERENCE	SEISMIC RESTRAINT REQUIREMENT	ASCE 7 REFERENCE
ROOF MOUNTED	NOT REQUIRED	13.1.4.4	NOT REQUIRED	13.1.4.4
FLOOR MOUNTED	NOT REQUIRED	13.1.4.4	NOT REQUIRED	13.1.4.4
WALL MOUNTED	NOT REQUIRED	13.1.4.4	NOT REQUIRED	13.1.4.4
COMPONENT SUPPORTS	NOT REQUIRED	13.1.4.4	NOT REQUIRED	13.1.4.4
SUSPENDED EQUIPMENT	NOT REQUIRED	13.1.4.4	NOT REQUIRED	13.1.4.4
SUSPENDED PIPING	NOT REQUIRED	13.1.4.4	NOT REQUIRED	13.1.4.4
SUSPENDED DUCTWORK	NOT REQUIRED	13.1.4.4	NOT REQUIRED	13.1.4.4
SINGLE CONDUIT	NOT REQUIRED	13.1.4.4	NOT REQUIRED	13.1.4.4
CABLE TRAY/BUS DUCT TRAPEZED CONDUIT	NOT REQUIRED	13.1.4.4	NOT REQUIRED	13.1.4.4
PENDANT, LAY-IN, & CAN LIGHTS	NOT REQUIRED	13.1.4.4	NOT REQUIRED	13.1.4.4
COMPONENT CERTIFICATION	NOT REQUIRED	13.2.2	NOT REQUIRED	13.2.2

SEISMIC DESIGN CATEGORY C

GENERAL NOTES

A. PER THE 2018 INTERNATIONAL BUILDING CODE, MECHANCIAL, PLUMBING AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7-16.
B. EXTERIOR EQUIPMENT (INCLUDING ROOF CURBS, RAILS, SUPPORTS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH CHAPTERS 26 TO 29 OF ASCE 7-16.
C. WHERE DESIGN FOR SEISMIC IN ADDITION TO WIND LOADS IS REQUIRED, THE MORE DEMANDING FORCE MUST BE USED.
D. REFERENCE THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, WIND SPEEDS, ETC.
E. SEE EQUIPMENT SCHEDULES AND DETAILS FOR SPECIFIC COMPONENT IMPORTANCE FACTOR DESIGNATIONS.
F. USE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH COMPONENT.
G. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL.
H. WHERE SEISMIC RESTRAINT IS REQUIRED, HOUSEKEEPING PADS NEEDED FOR THE INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT MUST BE DESIGNED BY THE SEISMIC ENGINEER. DO NOT POUR ANY HOUSEKEEPING PADS PRIOR TO THE THE RECEIPT OF THE APPROVED SEISMIC SUBMITTAL.
I. SEISMIC RESTRAINTS FOR DUCTWORK, PIPING, CONDUIT, CABLE TRAY AND BUS DUCT MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS.

COMPONENT IDENTIFICATION		COMPONENT IMPORTANCE FACTOR (Ip)			
		1.0		1.5	
		SEISMIC RESTRAINT REQUIREMENT	ASCE 7 REFERENCE	SEISMIC RESTRAINT REQUIREMENT	ASCE 7 REFERENCE
ROOF MOUNTED		NOT REQUIRED	13.1.4.5	RESTRAIN ALL	13.1.4.5
FLOOR MOUNTED		NOT REQUIRED	13.1.4.5	RESTRAIN ALL	13.1.4.5
WALL MOUNTED		NOT REQUIRED	13.1.4.5	RESTRAIN ALL	13.1.4.5
COMPONENT SUPPORTS		NOT REQUIRED	13.1.4.5	RESTRAIN ALL	13.6.4
SUSPENDED EQUIPMENT	INLINE W/ DUCT	NOT REQUIRED	13.1.4.5	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN. (SEE NOTES 1,2)	13.6.7
	NOT INLINE W/ DUCT	NOT REQUIRED	13.1.4.5	RESTRAIN ALL	13.1.4.5
SUSPENDED DUCTILE PIPING (STEEL, ALUMINUM, COPPER, ETC.)		NOT REQUIRED	13.1.4.5	RESTRAIN IF > 2"	13.6.8.3.3.a
SUSPENDED NON DUCTILE PIPING (CAST IRON, PLASTIC, CERAMIC)		NOT REQUIRED	13.1.4.5	RESTRAIN ALL	13.6.8.3.3
SUSPENDED PIPE ON TRAPEZE		NOT REQUIRED	13.1.4.5	RESTRAIN IF ANY PIPE ON TRAPEZE >2" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE ≥ 10 LBS/FT	13.6.7.3
DUCTWORK		NOT REQUIRED	13.6.6	RESTRAIN IF ≥ 6 SQ.FT. OR > 20 LBS/FT (SEE NOTE 3)	13.6.6
SINGLE CONDUIT		NOT REQUIRED	13.6.5.6	RESTRAIN IF ≥ 2.5"	13.6.5
CABLE TRAY/BUS DUCT/ TRAPEZED CONDUIT		NOT REQUIRED	13.6.5.6	RESTRAIN IF TOTAL WEIGHT OF RACEWAY ≥ 10 LBS/FT	13.6.5
PENDANT, LAY-IN, & CAN LIGHTS		REQUIRED (SEE NOTE 3)	13.5.6.2	REQUIRED (SEE NOTE 4)	13.5.6.2
COMPONENT CERTIFICATION		NOT REQUIRED	13.2.2	REQUIRED (SEE NOTE 5)	13.2.2

NOTES:
1. EQUIPMENT 20 LBS. OR LESS IS EXEMPT IF THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE.
2. FLEXIBLE CONNECTIONS REQUIRED FOR PIPE AND CONDUIT CONNECTIONS ONLY.
3. ALL DUCTWORK, REGARDLESS OF SIZE, DESIGNED TO CARRY TOXIC, HIGHLY TOXIC, OR EXPLOSIVE GASES OR USED FOR SMOKE CONTROL MUST BE RESTRAINED.
4. THE RESTRAINT OF PENDANT, LAY-IN, & CAN LIGHTS IS ADDRESSED IN ASTM C636 & E580.
5. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY ENGINEER OF RECORD AND BUILDING OFFICIAL.

SEISMIC DESIGN CATEGORIES D, E, F

GENERAL NOTES

A. PER THE 2018 INTERNATIONAL BUILDING CODE, MECHANCIAL, PLUMBING AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7-16.
B. EXTERIOR EQUIPMENT (INCLUDING ROOF CURBS, RAILS, SUPPORTS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH CHAPTERS 26 TO 29 OF ASCE 7-16.
C. WHERE DESIGN FOR SEISMIC IN ADDITION TO WIND LOADS IS REQUIRED, THE MORE DEMANDING FORCE MUST BE USED.
D. REFERENCE THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, WIND SPEEDS, ETC.
E. SEE EQUIPMENT SCHEDULES AND DETAILS FOR SPECIFIC COMPONENT IMPORTANCE FACTOR DESIGNATIONS.
F. USE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH COMPONENT.
G. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL.
H. WHERE SEISMIC RESTRAINT IS REQUIRED, HOUSEKEEPING PADS NEEDED FOR THE INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT MUST BE DESIGNED BY THE SEISMIC ENGINEER. DO NOT POUR ANY HOUSEKEEPING PADS PRIOR TO THE THE RECEIPT OF THE APPROVED SEISMIC SUBMITTAL.
I. SEISMIC RESTRAINTS FOR DUCTWORK, PIPING, CONDUIT, CABLE TRAY AND BUS DUCT MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS.

COMPONENT IDENTIFICATION		COMPONENT IMPORTANCE FACTOR (Ip)			
		1.0		1.5	
		SEISMIC RESTRAINT REQUIREMENT	ASCE 7 REFERENCE	SEISMIC RESTRAINT REQUIREMENT	ASCE 7 REFERENCE
ROOF MOUNTED		RESTRAIN ALL (SEE NOTE 1,2)	13.1.4.6	RESTRAIN ALL (SEE NOTE 1)	13.1.4.6
FLOOR MOUNTED		RESTRAIN ALL (SEE NOTES 1,2)	13.1.4.6	RESTRAIN ALL (SEE NOTE 1)	13.1.4.6
WALL MOUNTED		RESTRAIN ALL (SEE NOTE 1,2)	13.1.4.6	RESTRAIN ALL (SEE NOTE 1)	13.1.4.6
COMPONENT SUPPORTS		RESTRAIN ALL (SEE NOTE 1)	13.6.4	RESTRAIN ALL (SEE NOTE 1)	13.6.4
SUSPENDED EQUIPMENT	INLINE W/ DUCT	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN. (SEE NOTE 3)	13.6.6	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN. (SEE NOTE 3)	13.6.6
	NOT INLINE W/ DUCT	RESTRAIN ALL (SEE NOTE 1)	13.1.4.6	RESTRAIN ALL	13.1.4.6
SUSPENDED DUCTILE PIPING (STEEL, ALUMINUM, COPPER, ETC.)		RESTRAIN IF > 3" (SEE NOTE 4)	13.6.7.3	RESTRAIN IF > 1"	13.6.7.3
SUSPENDED NON DUCTILE PIPING (CAST IRON, PLASTIC, CERAMIC)		RESTRAIN ALL (SEE NOTE 4)	13.6.7.3	RESTRAIN ALL	13.6.7.3
SUSPENDED PIPE ON TRAPEZE		RESTRAIN IF ANY PIPE ON TRAPEZE > 3" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE ≥ 10 LBS/FT (SEE NOTE 4)	13.6.7.3	RESTRAIN IF ANY PIPE ON TRAPEZE > 1" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE ≥ 10 LBS/FT	13.6.7.3
DUCTWORK		RESTRAIN IF ≥ 6 SQ.FT. OR > 20 LBS/FT (SEE NOTE 4,5)	13.6.6	RESTRAIN IF ≥ 6 SQ.FT. OR > 20 LBS/FT (SEE NOTE 5)	13.6.6
SINGLE CONDUIT		RESTRAIN IF ≥ 2.5"	13.6.5	RESTRAIN IF ≥ 2.5"	13.6.5
CABLE TRAY/BUS DUCT/ TRAPEZED CONDUIT		RESTRAIN IF TOTAL WEIGHT OF RACEWAY ≥ 10 LBS/FT (SEE NOTE 4)	13.6.5	RESTRAIN IF TOTAL WEIGHT OF RACEWAY ≥ 10 LBS/FT	13.6.5
PENDANT, LAY-IN, & CAN LIGHTS		REQUIRED (SEE NOTE 6)	13.5.6.2	REQUIRED (SEE NOTE 6)	13.5.6.2
COMPONENT CERTIFICATION		NOT REQUIRED	13.2.2	REQUIRED (SEE NOTE 7)	13.2.2

NOTES:
1. EQUIPMENT 20 LBS. OR LESS IS EXEMPT IF THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE.
2. RESTRAINTS ARE NOT REQUIRED IF THE COMPONENT WEIGHTS 400 LBS. OR LESS, IS MOUNTED WITH THE CENTER OF MASS AT 4 FT. OR LESS ABOVE A FLOOR, IS POSITIVELY ATTACHED TO THE STRUCTURE, AND HAS FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
3. FLEXIBLE CONNECTIONS REQUIRED FOR PIPE AND CONDUIT CONNECTIONS ONLY.
4. SEE TABLE 1 FOR ROD HANGER LENGTH EXEMPTION RULES.
5. ALL DUCTWORK, REGARDLESS OF SIZE, DESIGNED TO CARRY TOXIC, HIGHLY TOXIC, OR EXPLOSIVE GASES OR USED FOR SMOKE CONTROL MUST BE RESTRAINED.
6. THE RESTRAINT OF PENDANT, LAY-IN, & CAN LIGHTS IS ADDRESSED IN ASTM C636 & E580.
7. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY ENGINEER OF RECORD AND BUILDING OFFICIAL.

TABLE 1 - ROD HANGER LENGTH EXEMPTION SCENARIOS

SYSTEM	EXEMPTION SCENARIO 1	EXEMPTION SCENARIO 2	EXEMPTION SCENARIO 3
PIPING [1,3] I_p = 1.0	TRAPEZE [4] WITH 3/8" RODS ≤ 12 IN. FROM STRUCTURE ≤ 100 LBS. TOTAL SUPPORTED WEIGHT	TRAPEZE [4] WITH 1/2" RODS ≤ 12 IN. FROM STRUCTURE ≤ 200 LBS. TOTAL SUPPORTED WEIGHT OR ≤ 24 IN. FROM STRUCTURE ≤ 100 LBS. TOTAL SUPPORTED WEIGHT	INDIVIDUALLY [5] SUPPORTED WITH 3/8" OR 1/2" RODS ≤ 12 IN. FROM STRUCTURE TOTAL WEIGHT SUPPORTED BY ANY SINGLE ROD ≤ 50 LBS.
PIPING I_p = 1.5	NO EXEMPTION ALLOWED		
EQUIPMENT I_p = 1.0 OR 1.5	NO EXEMPTION ALLOWED		
CONDUIT, CABLE TRAY, RACEWAYS [2,3] I_p = 1.0	TRAPEZE [4] WITH 3/8" RODS ≤ 12 IN. FROM STRUCTURE ≤ 100 LBS. TOTAL SUPPORTED WEIGHT	TRAPEZE [4] WITH 1/2" RODS ≤ 12 IN. FROM STRUCTURE ≤ 200 LBS. TOTAL SUPPORTED WEIGHT OR ≤ 24 IN. FROM STRUCTURE ≤ 100 LBS. TOTAL SUPPORTED WEIGHT	INDIVIDUALLY SUPPORTED WITH 3/8" OR 1/2" RODS ≤ 12 IN. FROM STRUCTURE TOTAL WEIGHT SUPPORTED BY ANY SINGLE ROD ≤ 50 LBS.
CONDUIT, ETC. I_p = 1.5	NO EXEMPTION ALLOWED		
DUCT [2,3] I_p = 1.0	TRAPEZE [4] WITH 3/8" RODS ≤ 12 IN. FROM STRUCTURE ≤ 100 LBS. TOTAL SUPPORTED WEIGHT	TRAPEZE [4] WITH 1/2" RODS ≤ 12 IN. FROM STRUCTURE ≤ 200 LBS. TOTAL SUPPORTED WEIGHT OR ≤ 24 IN. FROM STRUCTURE ≤ 100 LBS. TOTAL SUPPORTED WEIGHT	INDIVIDUALLY SUPPORTED WITH 3/8" OR 1/2" RODS ≤ 12 IN. FROM STRUCTURE TOTAL WEIGHT SUPPORTED BY ANY SINGLE ROD ≤ 50 LBS.
DUCT I_p = 1.5	NO EXEMPTION ALLOWED		

NOTES:
1. FLEXIBLE CONNECTIONS, EXPANSION LOOPS, OR OTHER ASSEMBLIES MUST BE PROVIDED TO ACCOMMODATE THE RELATIVE DISPLACEMENT BETWEEN COMPONENT AND PIPING.
2. FLEXIBLE CONNECTIONS OR OTHER ASSEMBLIES MUST BE PROVIDED BETWEEN THE CABLE TRAY OR RACEWAY OR DUCT SYSTEM AND ASSOCIATED COMPONENTS TO ACCOMMODATE THE RELATIVE DISPLACEMENT.
3. NO EXEMPTION ALLOWED WHEN INSTALLATION REQUIRES 5/8" ROD OR LARGER.
4. NO EXEMPTION ALLOWED WHEN TRAPEZE ASSEMBLY INCLUDES ANY SINGLE PIPE/CONDUIT/DUCT REQUIRING SEISMIC RESTRAINT BASED ON SIZE/WEIGHT.
5. NO EXEMPTION ALLOWED FOR NON DUCTILE PIPING.

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PLUMBING SEISMIC NOTES
P1.1

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PLUMBING -- FIXTURE CONNECTION Ø

TAG	DESCRIPTION	BRANCH CONNECTIONS DCW	DHW	SS
AC-1	AIR COMPRESSOR (ROTORY SCREW)			
AD-1	AIR DRYER (REFRIGERATED)			
D1	DOWNSPOUT NOZZLE WITH PERFORATED COVER			6"
ECO	EXTERIOR CLEANOUT			<varies>
FCO-HD	FLOOR CLEANOUT - HEAVY DUTY			<varies>
FD	FLOOR DRAIN			3"
FD2	HUB DRAIN			2"
FPWH	NON-FREEZE WALL HYDRANT	3/4"		
FS	FLOOR SINK 12 INCH SQUARE x 6 INCH DEEP			3"
HB	WALL HYDRANT	3/4"		
P1	WALL HUNG WATER CLOSET	1"		4"
P3	URINAL	1"		2"
P4	LAVATORY - INTEGRAL	1/2"	1/2"	2"
P6	TERRAZZO SERVICE SINK	3/4"	3/4"	3"
P7	WASHFOUNTAIN	1"	1"	2"
P8	SAFETY STATION WITH EYEWASH	1 1/4"	1 1/4"	2"
P9	SINGLE BOWL DROP IN	1/2"	1/2"	2"
P10	DRINKING FOUNTAIN	1/2"		2"
P11	WATER DISPENSER (ADA)			
P12	LAVATORY - WALL MOUNT	1/2"	1/2"	2"
P13	HOSE REEL			
P14	ICE MAKER SUPPLY	1/2"		
P15	SAFETY STATION WITH EYEWASH	1 1/4"	1 1/4"	2"
R1	ROOF AND OVERFLOW DRAIN			4"
R2	ROOF HYDRANT	1"		

NOTE: ALL PLUMBING UTILITY SERVICES ON SITE AND UP TO THE BUILDING ARE PART OF THE CIVIL ENGINEERS WORK. SEE CIVIL UTILITY DRAWINGS FOR EXACT PIPE ROUTING, PIPE SIZES, PRESSURES, DETAILS AND SPECIFICATIONS. THESE ARE SHOWN ON PLUMBING DRAWINGS FOR REFERENCE ONLY.

1 SANITARY FLOOR PLAN
1/8" = 1'-0"

NORTH

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SANITARY FLOOR PLAN
P2.0

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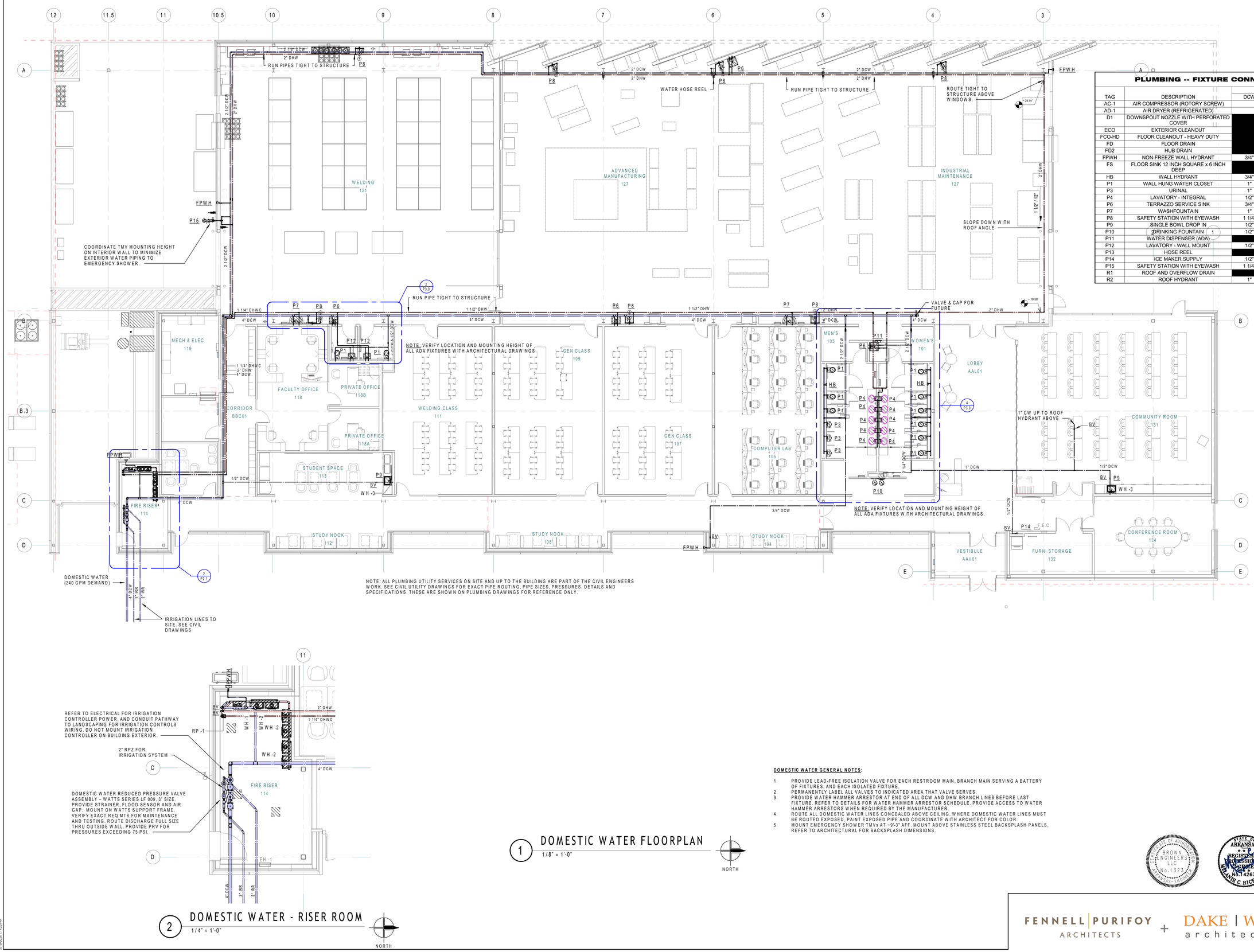

NOTE: ALL PLUMBING UTILITY SERVICES ON SITE AND UP TO THE BUILDING ARE PART OF THE CIVIL ENGINEERS WORK. SEE CIVIL UTILITY DRAWINGS FOR EXACT PIPE ROUTING, PIPE SIZES, PRESSURES, DETAILS AND SPECIFICATIONS. THESE ARE SHOWN ON PLUMBING DRAWINGS FOR REFERENCE ONLY.

PLUMBING -- FIXTURE CONNECTION Ø

TAG	DESCRIPTION	BRANCH CONNECTIONS DCW	DHW	SS
AC-1	AIR COMPRESSOR (ROTORY SCREW)			
AD-1	AIR DRYER (REFRIGERATED)			
D1	DOWNSPOUT NOZZLE WITH PERFORATED COVER			6"
ECO	EXTERIOR CLEANOUT			<varies>
FCO-HD	FLOOR CLEANOUT - HEAVY DUTY			<varies>
FD	FLOOR DRAIN			3"
FD2	HUB DRAIN			2"
FPWH	NON-FREEZE WALL HYDRANT	3/4"		
FS	FLOOR SINK 12 INCH SQUARE x 6 INCH DEEP			3"
HB	WALL HYDRANT	3/4"		
P1	WALL HUNG WATER CLOSET	1"		4"
P3	URINAL	1"		2"
P4	LAVATORY - INTEGRAL	1/2"	1/2"	2"
P6	TERRAZZO SERVICE SINK	3/4"	3/4"	3"
P7	WASHFOUNTAIN	1"	1"	2"
P8	SAFETY STATION WITH EYEWASH	1 1/4"	1 1/4"	2"
P9	SINGLE BOWL DROP IN	1/2"	1/2"	2"
P10	DRINKING FOUNTAIN	1/2"		2"
P11	WATER DISPENSER (ADA)			
P12	LAVATORY - WALL MOUNT	1/2"	1/2"	2"
P13	HOSE REEL			
P14	ICE MAKER SUPPLY	1/2"		
P15	SAFETY STATION WITH EYEWASH	1 1/4"	1 1/4"	2"
R1	ROOF AND OVERFLOW DRAIN			4"
R2	ROOF HYDRANT	1"		

2 DOMESTIC WATER - RISER ROOM
1/4" = 1'-0"

1 DOMESTIC WATER FLOORPLAN
1/8" = 1'-0"

NORTH

DOMESTIC WATER GENERAL NOTES:

1. PROVIDE LEAD-FREE ISOLATION VALVE FOR EACH RESTROOM MAIN, BRANCH MAIN SERVING A BATTERY OF FIXTURES, AND EACH ISOLATED FIXTURE.
2. PERMANENTLY LABEL ALL VALVES TO INDICATED AREA THAT VALVE SERVES.
3. PROVIDE WATER HAMMER ARRESTOR AT END OF ALL DCW AND DHW BRANCH LINES BEFORE LAST FIXTURE. REFER TO DETAILS FOR WATER HAMMER ARRESTOR SCHEDULE. PROVIDE ACCESS TO WATER HAMMER ARRESTORS WHEN REQUIRED BY THE MANUFACTURER.
4. ROUTE ALL DOMESTIC WATER LINES CONCEALED ABOVE CEILING. WHERE DOMESTIC WATER LINES MUST BE ROUTED EXPOSED, PAINT EXPOSED PIPE AND COORDINATE WITH ARCHITECT FOR COLOR.
5. MOUNT EMERGENCY SHOWER TMVs AT ~9'-3" AFF. MOUNT ABOVE STAINLESS STEEL BACKSPLASH PANELS, REFER TO ARCHITECTURAL FOR BACKSPLASH DIMENSIONS.

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DOMESTIC WATER FLOOR PLAN
P2.1

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NATURAL GAS GENERAL NOTES:

1. ALL GAS PIPE SIZING IS BASED ON SYSTEM LONGEST LENGTH FROM THE REGULATOR AND EQUIPMENT DEMAND SHOWN ON THE SCHEMATIC. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER IF CONDITIONS DIFFER FROM SCHEMATIC PLAN.
2. REFER TO CIVIL DETAILS AND SPECIFICATIONS FOR INSTALLATION OF EXTERIOR OR BELOW GRADE PIPING.
3. REFER TO DETAILS FOR GAS CONNECTION TO MECHANICAL EQUIPMENT REQUIREMENTS.

NATURAL GAS DESIGN NOTES:

1. SYSTEM PRESSURE: 5 PSI
2. SYSTEM LONGEST LENGTH: 1200 FT

PROVIDE MANIFOLD EQUAL TO REXARC 4-0400136AC-6

DROP PIPING INSIDE BUILDING WITH VALVES. ROUTE PIPING THROUGH EXTERIOR WALL LOW TO CONNECT TO EQUIPMENT.

DROP AIR TIGHT TO COLUMN. DO NOT BLOCK WINDOW WITH PIPE DROP.

PV

VALVE AND CAP FOR FUTURE

2" (5 PSI) GAS UP TO HVAC UNITS ON ROOF

3" (5 PSI) GAS - ENTER BUILDING @ 1'-0" AFF

3" (5 PSI) GAS FROM METER ON SITE. REFER TO CIVIL FOR METER LOCATION AND PIPE ROUTING.

PEAK LOAD (CURRENT BUILDING): 4,700 CFH
PEAK LOAD (WITH FUTURE ADDITION): 9,400 CFH

FLUE

6" MV

FRESH AIR INTAKE

JJM ALKALINE TECH NB-2 CONDENSATE NEUTRALIZER TANK, TO SERVE ALL WATER HEATERS. PIPE DRAIN TO FLOOR SINK.

CONDP NEUT

WH-1 199 CFH

WH-2 398 CFH

LB/OZ REG

1 1/2" G 1,400 CFH

3/4" CD

1 1/2" G

2" CA

3/4" CA

1" CA

1/2" CA

2" W

3" G

P13

P22

1 AIR & WELDING GAS FLOOR PLAN
1/8" = 1'-0"
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2 GAS PLAN - WATER HEATERS
1/2" = 1'-0"
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AIR & WELDING GAS FLOOR PLAN
P2.2

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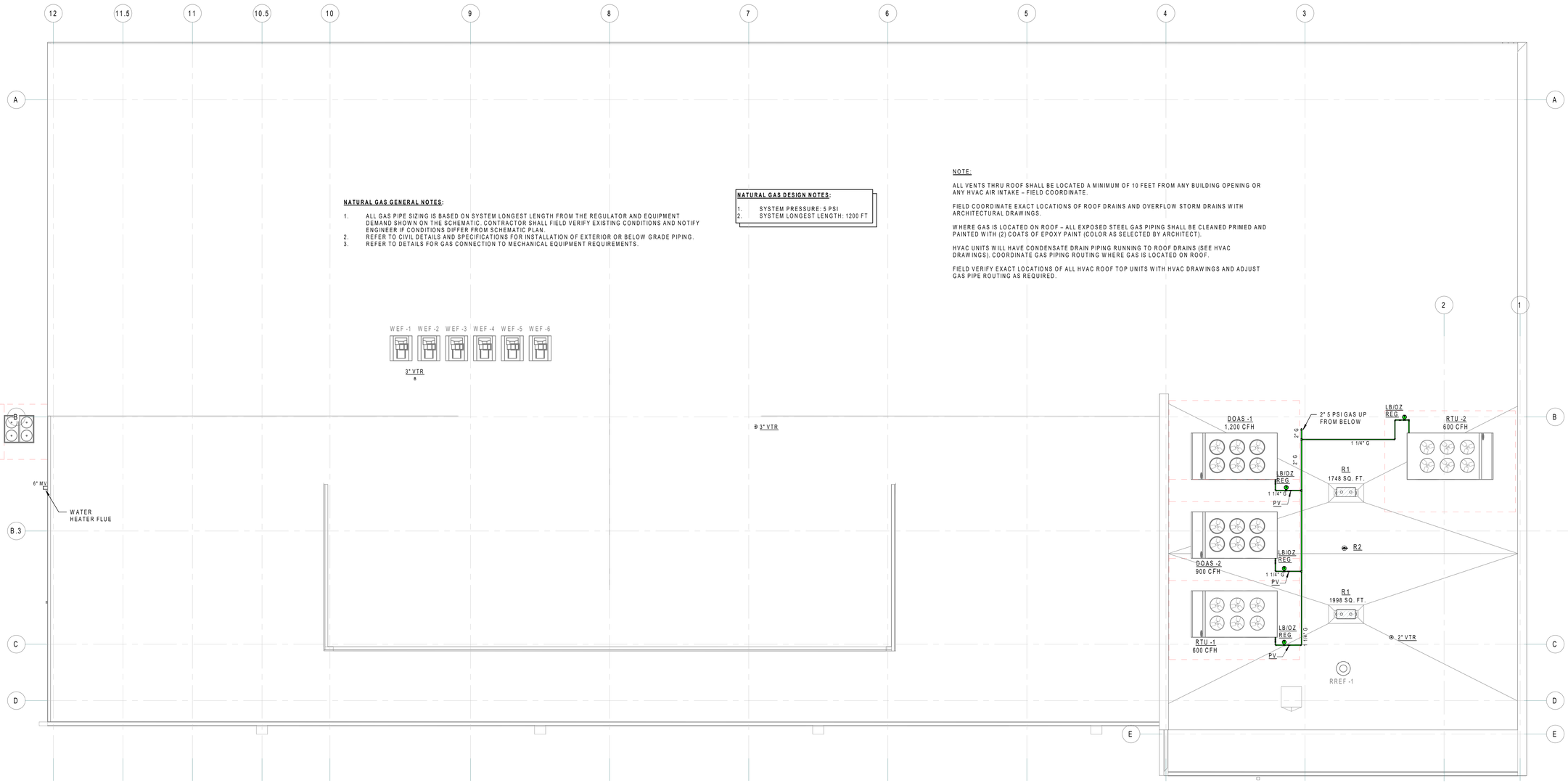

NATURAL GAS GENERAL NOTES:

1. ALL GAS PIPE SIZING IS BASED ON SYSTEM LONGEST LENGTH FROM THE REGULATOR AND EQUIPMENT DEMAND SHOWN ON THE SCHEMATIC. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER IF CONDITIONS DIFFER FROM SCHEMATIC PLAN.
2. REFER TO CIVIL DETAILS AND SPECIFICATIONS FOR INSTALLATION OF EXTERIOR OR BELOW GRADE PIPING.
3. REFER TO DETAILS FOR GAS CONNECTION TO MECHANICAL EQUIPMENT REQUIREMENTS.

NATURAL GAS DESIGN NOTES:

1. SYSTEM PRESSURE: 5 PSI
2. SYSTEM LONGEST LENGTH: 1200 FT

NOTE:

ALL VENTS THRU ROOF SHALL BE LOCATED A MINIMUM OF 10 FEET FROM ANY BUILDING OPENING OR ANY HVAC AIR INTAKE – FIELD COORDINATE.

FIELD COORDINATE EXACT LOCATIONS OF ROOF DRAINS AND OVERFLOW STORM DRAINS WITH ARCHITECTURAL DRAWINGS.

WHERE GAS IS LOCATED ON ROOF – ALL EXPOSED STEEL GAS PIPING SHALL BE CLEANED PRIMED AND PAINTED WITH (2) COATS OF EPOXY PAINT (COLOR AS SELECTED BY ARCHITECT).

HVAC UNITS WILL HAVE CONDENSATE DRAIN PIPING RUNNING TO ROOF DRAINS (SEE HVAC DRAWINGS). COORDINATE GAS PIPING ROUTING WHERE GAS IS LOCATED ON ROOF.

FIELD VERIFY EXACT LOCATIONS OF ALL HVAC ROOF TOP UNITS WITH HVAC DRAWINGS AND ADJUST GAS PIPE ROUTING AS REQUIRED.

PLUMBING -- FIXTURE CONNECTION Ø

TAG	DESCRIPTION	BRANCH CONNECTIONS		
		DCW	DHW	SS
AC-1	AIR COMPRESSOR (ROTORY SCREW)			
AD-1	AIR DRYER (REFRIGERATED)			
D1	DOWNSPOUT NOZZLE WITH PERFORATED COVER			6"
ECO	EXTERIOR CLEANOUT			<varies>
FCO-HD	FLOOR CLEANOUT - HEAVY DUTY			<varies>
FD	FLOOR DRAIN			3"
FD2	HUB DRAIN			2"
FPWH	NON-FREEZE WALL HYDRANT	3/4"		
FS	FLOOR SINK 12 INCH SQUARE x 6 INCH DEEP			3"
HB	WALL HYDRANT	3/4"		
P1	WALL HUNG WATER CLOSET	1"		4"
P3	URINAL	1"		2"
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P8	SAFETY STATION WITH EYEWASH	1 1/4"	1 1/4"	2"
P9	SINGLE BOWL DROP IN	1/2"	1/2"	2"
P10	DRINKING FOUNTAIN	1/2"		2"
P11	WATER DISPENSER (ADA)			
P12	LAVATORY - WALL MOUNT	1/2"	1/2"	2"
P13	HOSE REEL			
P14	ICE MAKER SUPPLY	1/2"		
P15	SAFETY STATION WITH EYEWASH	1 1/4"	1 1/4"	2"
R1	ROOF AND OVERFLOW DRAIN			4"
R2	ROOF HYDRANT	1"		

1 PLUMBING ROOF PLAN

1/8" = 1'-0"

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PLUMBING ROOF PLAN
P2.3

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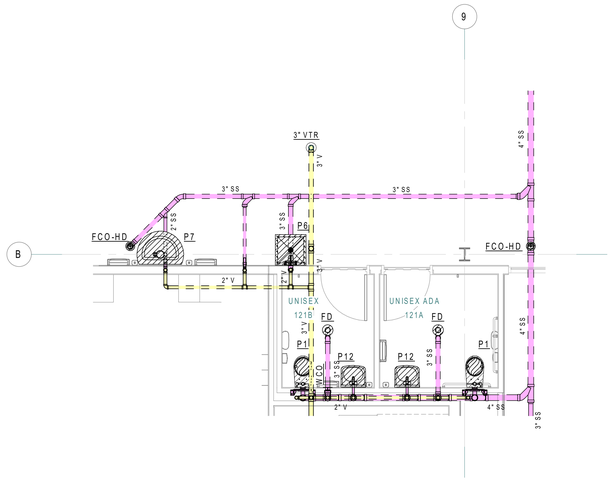
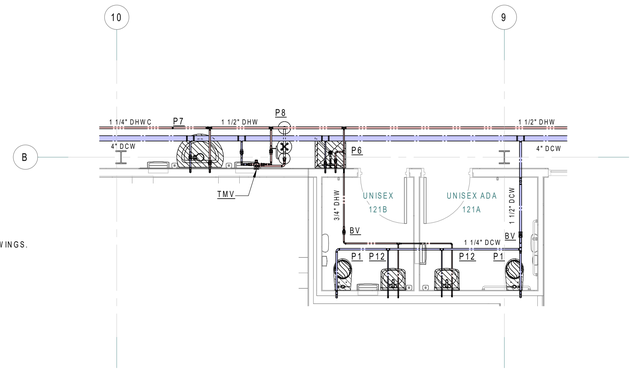


1 RR 121A SANITARY FLOOR PLAN

1/4" = 1'-0"

NORTH

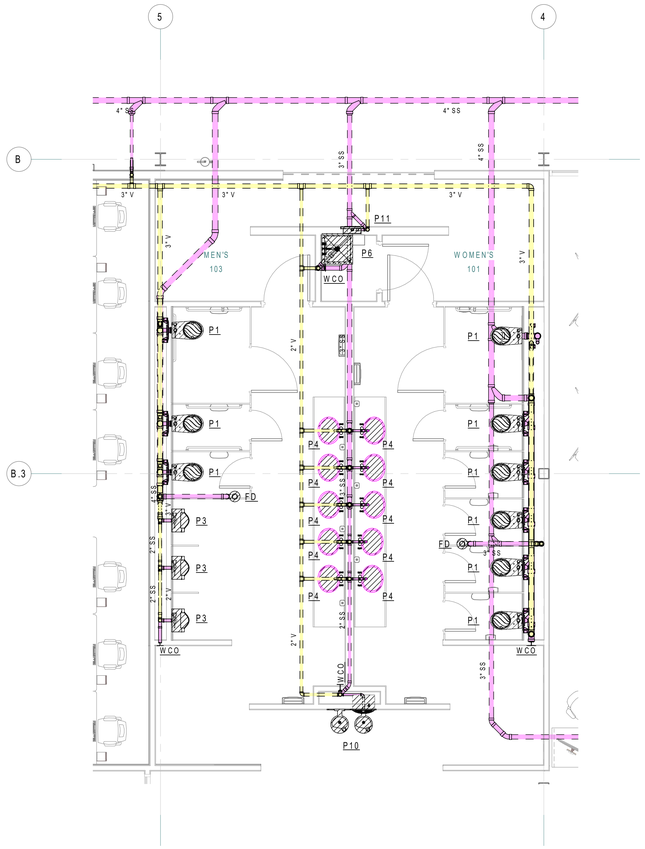
NOTE: VERIFY LOCATION AND MOUNTING HEIGHT OF ALL ADA FIXTURES WITH ARCHITECTURAL DRAWINGS.



2 RR 121A DOMESTIC WATER PLAN

1/4" = 1'-0"

NORTH

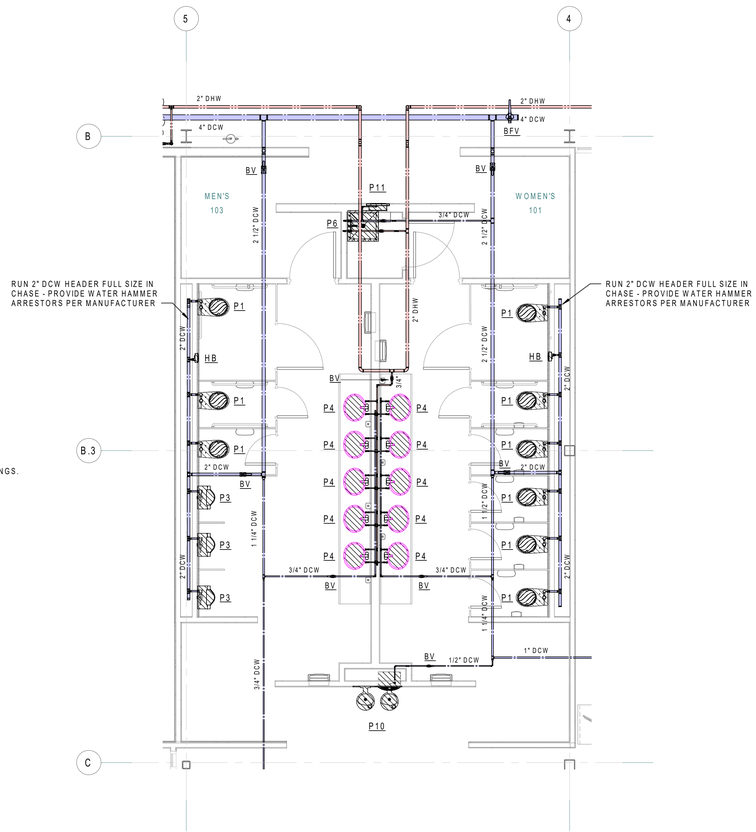


NOTE: VERIFY LOCATION AND MOUNTING HEIGHT OF ALL ADA FIXTURES WITH ARCHITECTURAL DRAWINGS.

3 RR 101 & 103 SANITARY PLAN

1/4" = 1'-0"

NORTH



4 RR 101 & 103 DOMESTIC WATER PLAN

1/4" = 1'-0"

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ENLARGED FLOOR PLAN

P3.0

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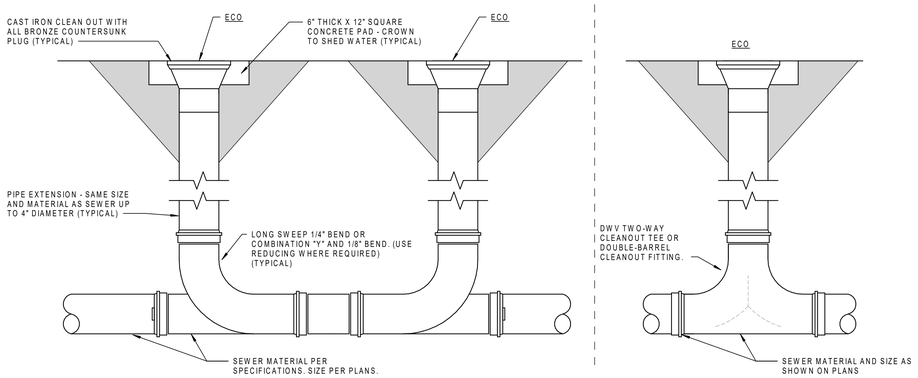
GENERAL NOTE: WHERE POSSIBLE, OFFSET ECO FITTINGS AWAY FROM BUILDING PERIMETER TO AVOID SIDEWALKS. ALL DCOTG LOCATIONS SHALL BE ACCESSIBLE FOR USE.

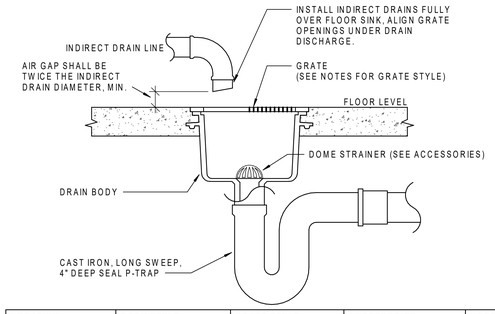


COMBINED DOUBLE CLEANOUT FITTING OPTION.

MATCH ECO STYLE SHOWN ON PLANS

1 DOUBLE CLEANOUT TO GRADE

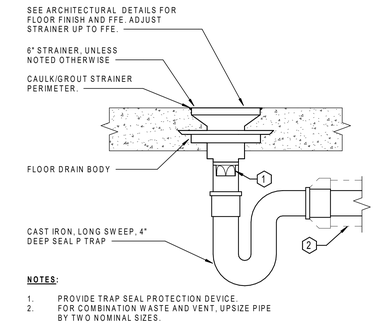
NOT TO SCALE



LOCATION	BODY STYLE	GRATE STYLE	ACCESSORIES	NOTES
MECH ROOM	CAST IRON WITH ACID RESISTANT EPOXY COATING EQUAL TO ZURN Z1910	HEAVY DUTY, LOOSE	ALUMINUM DOME STRAINER; TRAP GUARD	

2 FLOOR SINK

NOT TO SCALE

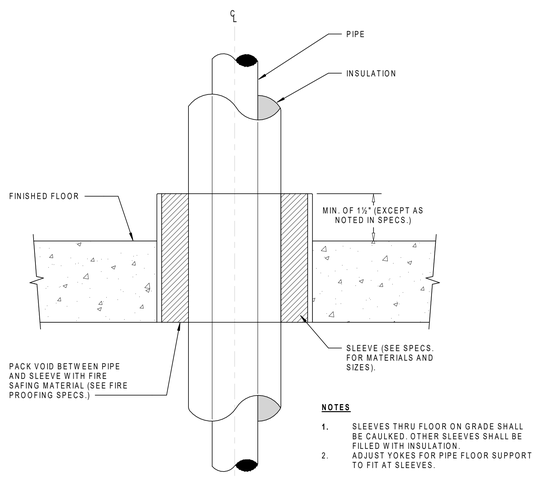


NOTES:

1. PROVIDE TRAP SEAL PROTECTION DEVICE.
2. FOR COMBINATION WASTE AND VENT, UPSIZE PIPE BY TWO NOMINAL SIZES.

3 FLOOR DRAIN

NOT TO SCALE

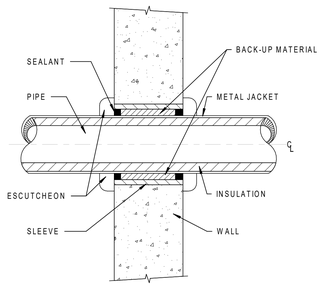


NOTES

1. SLEEVES THRU FLOOR ON GRADE SHALL BE CAULKED. OTHER SLEEVES SHALL BE FILLED WITH INSULATION.
2. ADJUST YOKES FOR PIPE FLOOR SUPPORT TO FIT AT SLEEVES.

4 PIPE SLEEVE THROUGH FLOOR

NOT TO SCALE



5 PIPE SLEEVE THROUGH WALL

NOT TO SCALE

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PLUMBING DETAILS

P4.0

BROWN ENGINEERS LLC
CERTIFICATE OF AUTHORIZATION
NO. 1323
FAYETTEVILLE, ARKANSAS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
MELANIE C. RICHARDSON
NO. 14267

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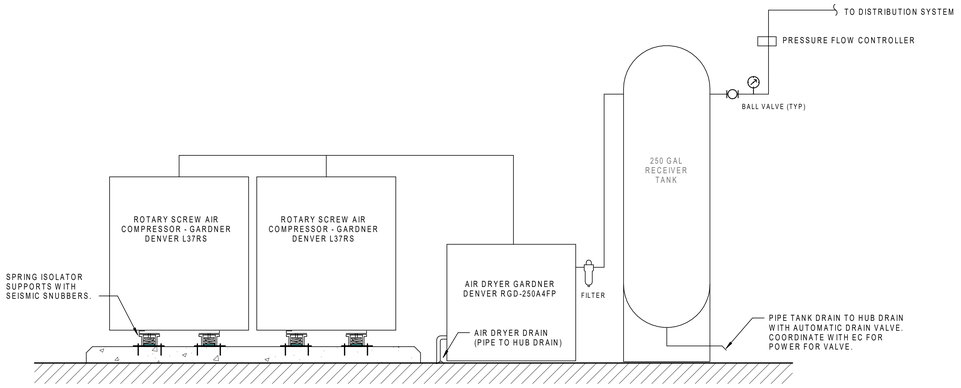
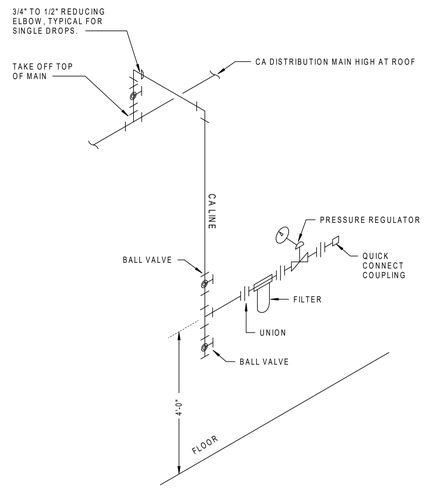


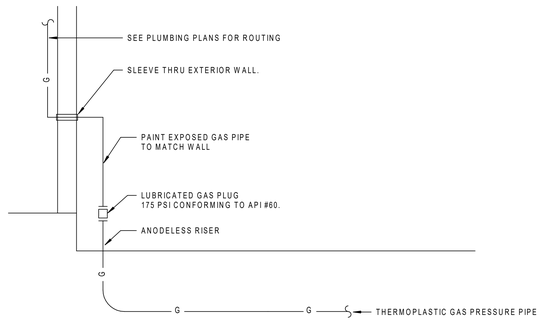
1 PACKAGED AIR COMPRESSOR SYSTEM

NOT TO SCALE



2 COMPRESSED AIR DROP

NOT TO SCALE

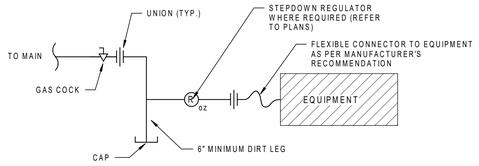


NOTES:

1. PROTECT ALL EXPOSED STEEL PIPE WITH TAPE COAT.
2. INSTALL PER LOCAL CODES AND UTILITY STANDARDS.
3. LOCATE ALL ANODES ON AS BUILT DRAWINGS.

3 GAS PIPING CONNECTION TO SITE

NOT TO SCALE

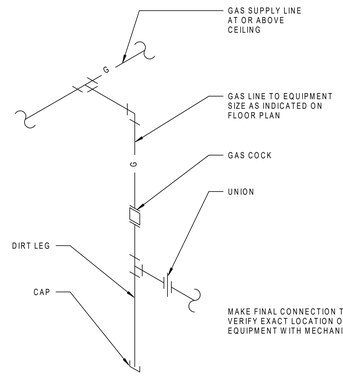


NOTES:

1. ALL GAS FIRED EQUIPMENT PROVIDED WITHOUT INTERNAL GAS REGULATOR FROM FACTORY, OR WITH ONE OF INADEQUATE CAPACITY SHALL BE PROVIDED WITH AN EXTERNAL GAS REGULATOR CAPABLE OF SUPPLYING GAS SERVICE TO EQUIPMENT AT PRESSURE AND FLOW AS PRESCRIBED BY EQUIPMENT MANUFACTURER.

4 GAS CONNECTION TO EQUIPMENT

NOT TO SCALE

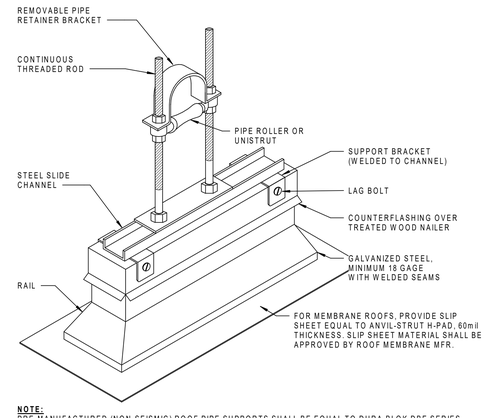


DESIGN NOTES:

1. FLEX AT APPLIANCE, IF NECESSARY.
2. REGULATOR AT APPLIANCE.

5 TYPICAL GAS CONNECTION

NOT TO SCALE



NOTE:
PRE-MANUFACTURED (NON-SEISMIC) ROOF PIPE SUPPORTS SHALL BE EQUAL TO DURA-BLOK DBE SERIES SEISMIC ROOF SUPPORTS (E.G. FOR GAS PIPING) SHALL BE PER SEISMIC DESIGNER REQUIREMENTS.

6 ROOF MOUNTED PIPE SUPPORT

NOT TO SCALE

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P4.1

BROWN ENGINEERS LLC No.1323 STATE OF ARKANSAS

STATE OF ARKANSAS No.14267 REGISTERED PROFESSIONAL ENGINEER BRANDE C. RICHARDSON

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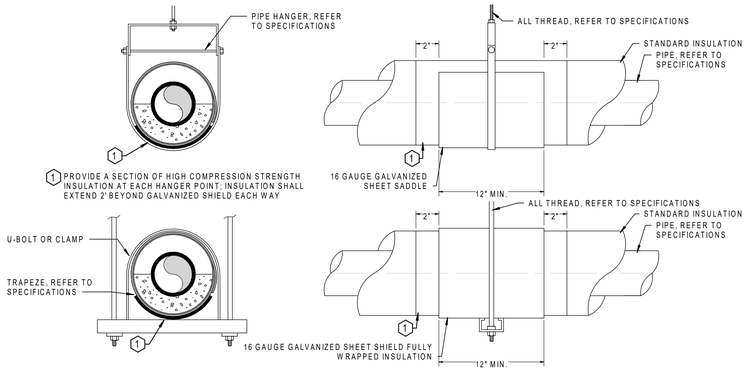
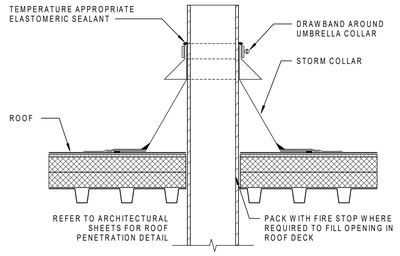


1 INSULATED PIPE HANGER

NOT TO SCALE

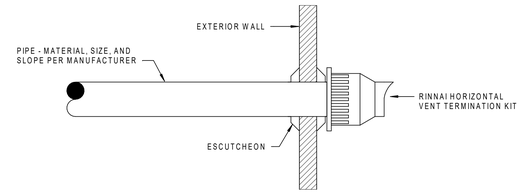
NOTES:

1. VENT ABOVE ROOF SHALL BE PAINTED TO MATCH ROOF. COORDINATE WITH ARCHITECT.
2. IF ARCHITECTURAL PIPE PENETRATION DETAIL IS AVAILABLE, IT SHALL SUPERCEDE THIS DETAIL.



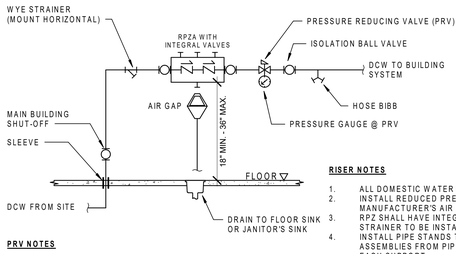
2 VENT THROUGH ROOF

NOT TO SCALE



3 GAS VENT TERMINATION

NOT TO SCALE



RPZ SIZE	MAKE	MODEL
2 1/2" - 3"	WATTS	LF009QT-FDA

PRV NOTES

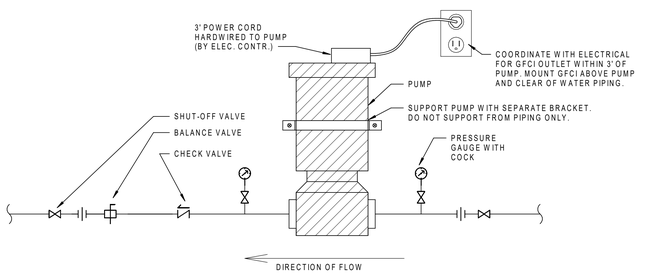
1. IF INCOMING PRESSURE IS 70PSI OR GREATER, PROVIDE PRV EQUAL TO WATTS LF223 FOR 2 1/2" AND BELOW. PRV SHALL BE EQUAL TO WATTS LFN223B FOR 3".
2. SIZE PRV PER PLANS OR MATCH RPZ SIZE, DO NOT SIZE BASED ON DISTRIBUTION PIPE SIZE.
3. ENGINEER SHALL BE INFORMED IF INCOMING PRESSURE AT BUILDING IS 150PSI OR GREATER.

RISER NOTES

1. ALL DOMESTIC WATER RISER COMPONENTS SHALL BE LEAD-FREE.
2. INSTALL REDUCED PRESSURE ZONE ASSEMBLY (RPZA) BACKFLOW PREVENTER WITH MANUFACTURER'S AIR GAP AND ROUTE FULL-SIZE TO SANITARY.
3. RPZ SHALL HAVE INTEGRAL STRAINER UNLESS SPATIAL CONSTRAINTS REQUIRE STRAINER TO BE INSTALLED SEPARATELY.
4. INSTALL PIPE STANDS TO SUPPORT THE COMPONENTS. DO NOT SUPPORT ASSEMBLIES FROM PIPING. INSTALL BEARING PLATES ON CONCRETE FLOOR UNDER EACH SUPPORT.
5. COORDINATE FINAL LOCATION OF DOMESTIC RISER WITH ALL OTHER SYSTEMS AND EQUIPMENT IN ASSOCIATED ROOM. RISER SHALL NOT INTERFERE WITH OR IMPEDE OPERATIONS OF OTHER SYSTEMS OR FACILITY PERSONNEL.
6. INSTALL ALL VALVES SO THAT VALVE HANDLES ARE NOT IMPEDED IN ANY MANNER AND ARE EASILY OPERATED FROM INTERIOR OF ROOM.
7. WHEN MOUNTED NEXT TO A WALL, RPZA SHALL HAVE 12" CLEARANCE BETWEEN TEST PORTS AND WALL, MINIMUM.

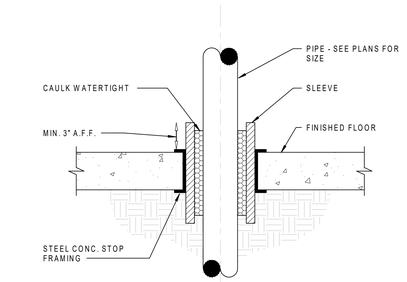
4 RPZ DOMESTIC WATER RISER

NOT TO SCALE



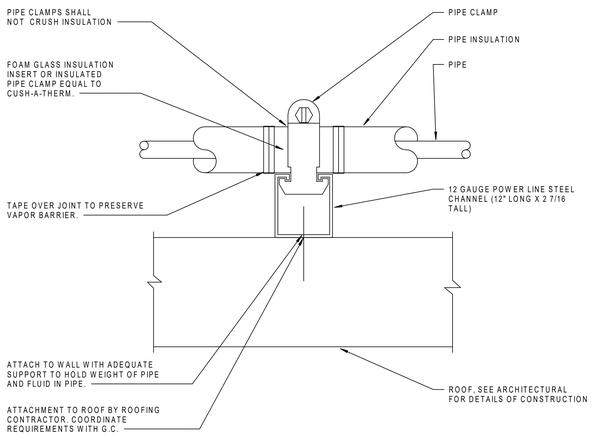
5 DHW RECIRCULATION PUMP

NOT TO SCALE



6 FLOOR ON GRADE PENETRATION

NOT TO SCALE



7 PIPING SUPPORT

NOT TO SCALE

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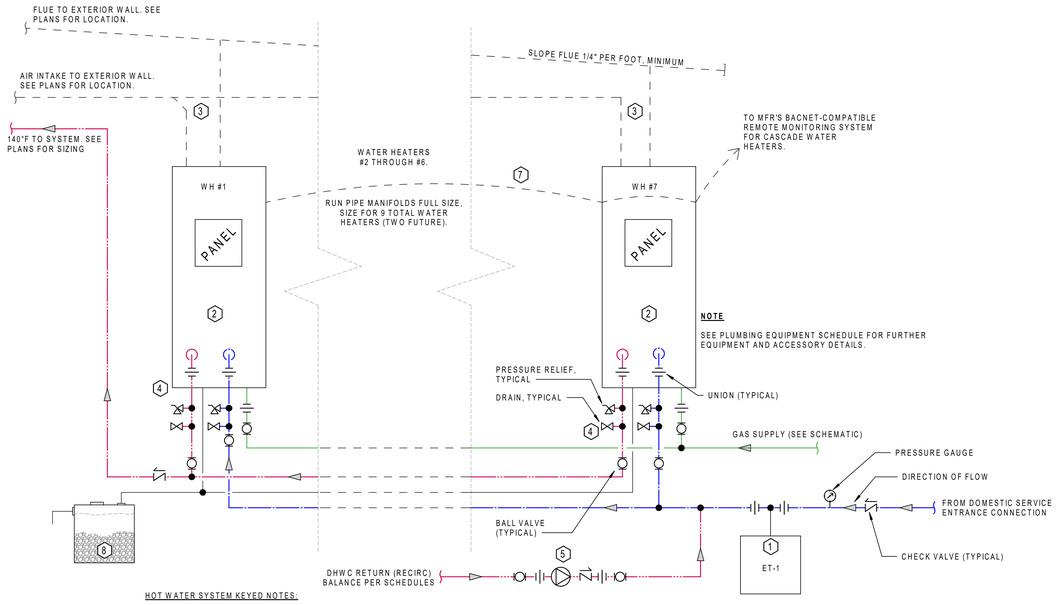
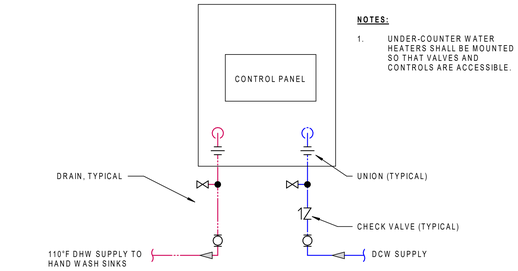


HOT WATER SYSTEM KEYED NOTES:

1. PROVIDE THERMAL EXPANSION TANK SIZED PER MANUFACTURER'S RECOMMENDATIONS ON TANKLESS WATER HEATER INSTALLATIONS WITH RECIRCULATION. DHW SYSTEM VOLUME: 90 GALLONS.
2. TANKLESS WATER HEATER. REFER TO WATER HEATER SCHEDULE.
3. COMBINED COMBUSTION AND EXHAUST FLUE FROM WATER HEATER THROUGH EXTERIOR WALL (REFER TO PLANS FOR LOCATION). PROVIDE VENT/FLUE MANIFOLD SIZED PER MANUFACTURER'S GUIDELINES. TERMINATE WITH MFR'S RECOMMENDED TERMINATIONS THROUGH ROOF.
4. CONDENSING WATER HEATER MODELS SHALL BE PROVIDED WITH MANUFACTURER'S CONDENSATE NEUTRALIZATION KIT AND PVC CONDENSATE DRAIN LINE. DISCHARGE CONDENSATE PER CODE AND AHJ REQUIREMENTS.
5. HOT WATER RECIRCULATOR PUMP. SEE SCHEDULES FOR MODEL.
6. NOT USED.
7. PROVIDE MANUFACTURER'S LINK CABLE AND CONTROL SYSTEM FOR CASCADE WATER HEATERS.
8. CONDENSATE NEUTRALIZATION TANK EQUAL TO JJM ALKALINE TECH MODEL NB-2. SHALL BE SIZED FOR 2,000MBH OF CONNECTED GAS-FIRED EQUIPMENT, MINIMUM. DISCHARGE TO FLOOR SINK. FILL WITH NEUTRALIZING MEDIA BEFORE SYSTEM STARTUP.

1 WATER HEATER - TANKLESS MANIFOLD W/RECIRC

NOT TO SCALE



NOTES:

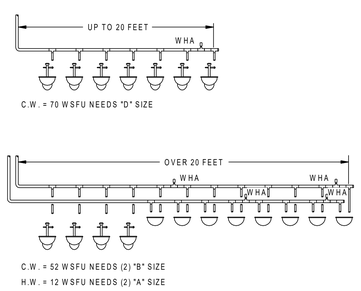
1. UNDER-COUNTER WATER HEATERS SHALL BE MOUNTED SO THAT VALVES AND CONTROLS ARE ACCESSIBLE.

2 WATER HEATER - TANKLESS ELECTRIC

NOT TO SCALE

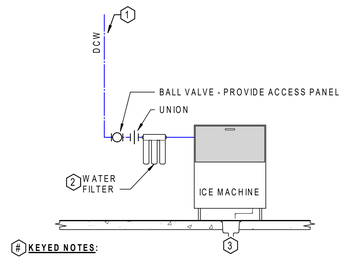
P.D.I. UNITS	A	B	C	D	E	F
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154	155-330

APPROVED MANUFACTURERS: JR SMITH, PPP, WATTS, SIOUX CHIEF, ZURN



3 WATER HAMMER ARRESTOR

NOT TO SCALE



#KEYED NOTES:

1. COLD WATER SUPPLY FROM BUILDING DCW SYSTEM. DROP INSIDE WALLS OR SURFACE MOUNT ON BLOCK WALLS. SUPPORT SURFACE-MOUNT PIPING WITH UNISTRUT AND PIPE CLAMPS.
2. THREE-STAGE WATER FILTER, EQUAL TO WATTS PWICE1. SURFACE MOUNT ON WALL WITH VALVES AND UNIONS ACCESSIBLE FOR MAINTENANCE.
3. ROUTE ICE MACHINE DRAINS TO DRAIN WITH AIR GAP. SEE SANITARY WASTE PLANS FOR DRAIN TYPE AND LOCATION.

4 COMMERCIAL ICE MACHINE PLUMBING

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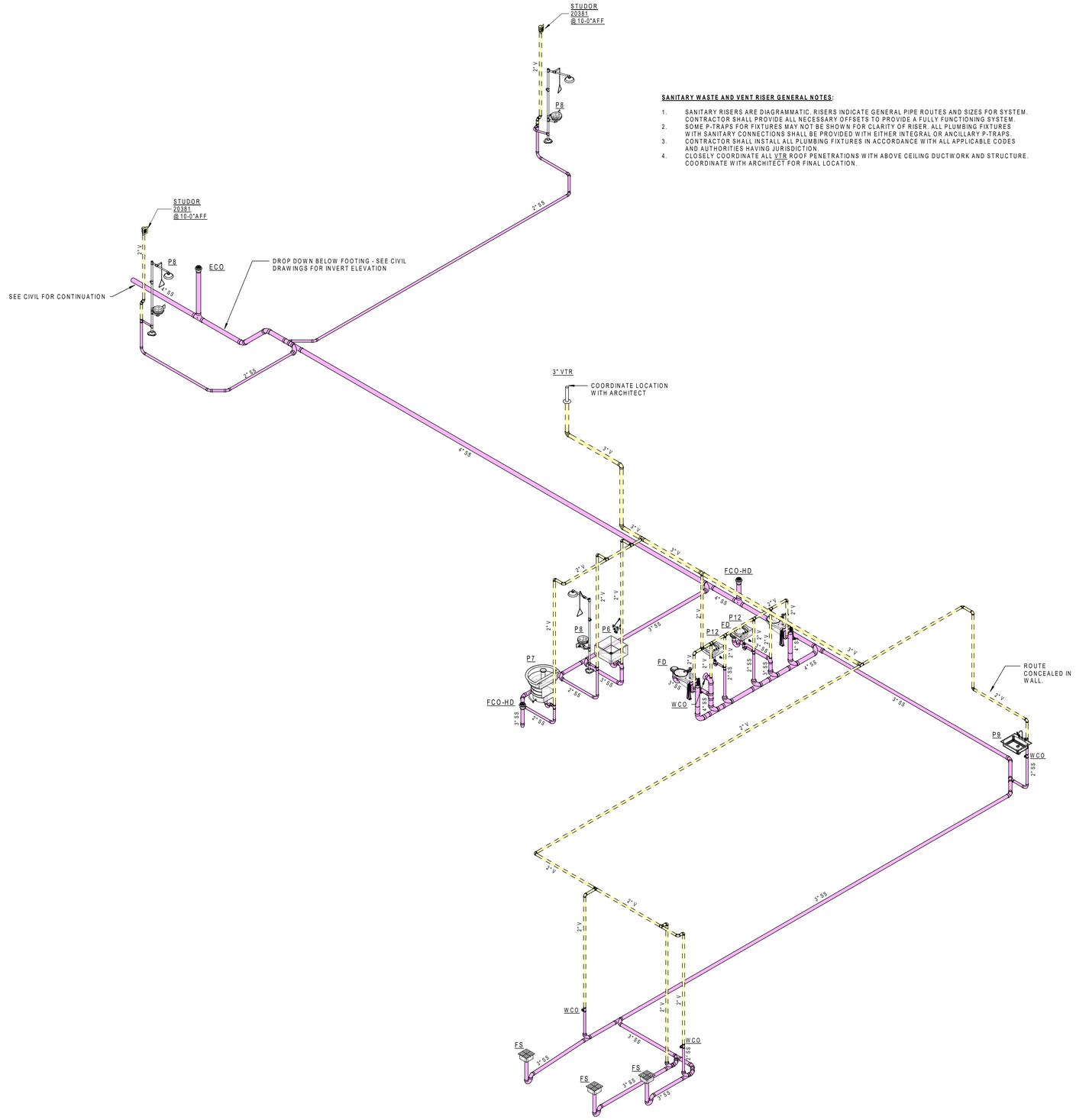

SANITARY WASTE AND VENT RISER GENERAL NOTES:

1. SANITARY RISERS ARE DIAGRAMMATIC. RISERS INDICATE GENERAL PIPE ROUTES AND SIZES FOR SYSTEM. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS TO PROVIDE A FULLY FUNCTIONING SYSTEM.
2. SOME P-TRAPS FOR FIXTURES MAY NOT BE SHOWN FOR CLARITY OF RISER. ALL PLUMBING FIXTURES WITH SANITARY CONNECTIONS SHALL BE PROVIDED WITH EITHER INTEGRAL OR ANCILLARY P-TRAPS.
3. CONTRACTOR SHALL INSTALL ALL PLUMBING FIXTURES IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION.
4. CLOSELY COORDINATE ALL VTR ROOF PENETRATIONS WITH ABOVE CEILING DUCTWORK AND STRUCTURE. COORDINATE WITH ARCHITECT FOR FINAL LOCATION.

PLUMBING -- FIXTURE CONNECTION Ø

TAG	DESCRIPTION	BRANCH CONNECTIONS		
		DCW	DHW	SS
AC-1	AIR COMPRESSOR (ROTORY SCREW)			
AD-1	AIR DRYER (REFRIGERATED)			
D1	DOWNSPOUT NOZZLE WITH PERFORATED COVER			6"
ECO	EXTERIOR CLEANOUT			<varies>
FCO-HD	FLOOR CLEANOUT - HEAVY DUTY			<varies>
FD	FLOOR DRAIN			3"
FD2	HUB DRAIN			2"
FPWH	NON-FREEZE WALL HYDRANT	3/4"		
FS	FLOOR SINK 12 INCH SQUARE x 6 INCH DEEP			3"
HB	WALL HYDRANT	3/4"		
P1	WALL HUNG WATER CLOSET	1"		4"
P3	URINAL	1"		2"
P4	LAVATORY - INTEGRAL	1/2"	1/2"	2"
P6	TERRAZZO SERVICE SINK	3/4"	3/4"	3"
P7	WASHFOUNTAIN	1"	1"	2"
P8	SAFETY STATION WITH EYEWASH	1 1/4"	1 1/4"	2"
P9	SINGLE BOWL DROP IN	1/2"	1/2"	2"
P10	DRINKING FOUNTAIN	1/2"		2"
P11	WATER DISPENSER (ADA)			
P12	LAVATORY - WALL MOUNT	1/2"	1/2"	2"
P13	HOSE REEL			
P14	ICE MAKER SUPPLY	1/2"		
P15	SAFETY STATION WITH EYEWASH	1 1/4"	1 1/4"	2"
R1	ROOF AND OVERFLOW DRAIN			4"
R2	ROOF HYDRANT	1"		

1 WASTE & VENT RISER

NORTH

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WASTE & VENT RISER
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FS	FLOOR SINK 12 INCH SQUARE x 6 INCH DEEP			3"
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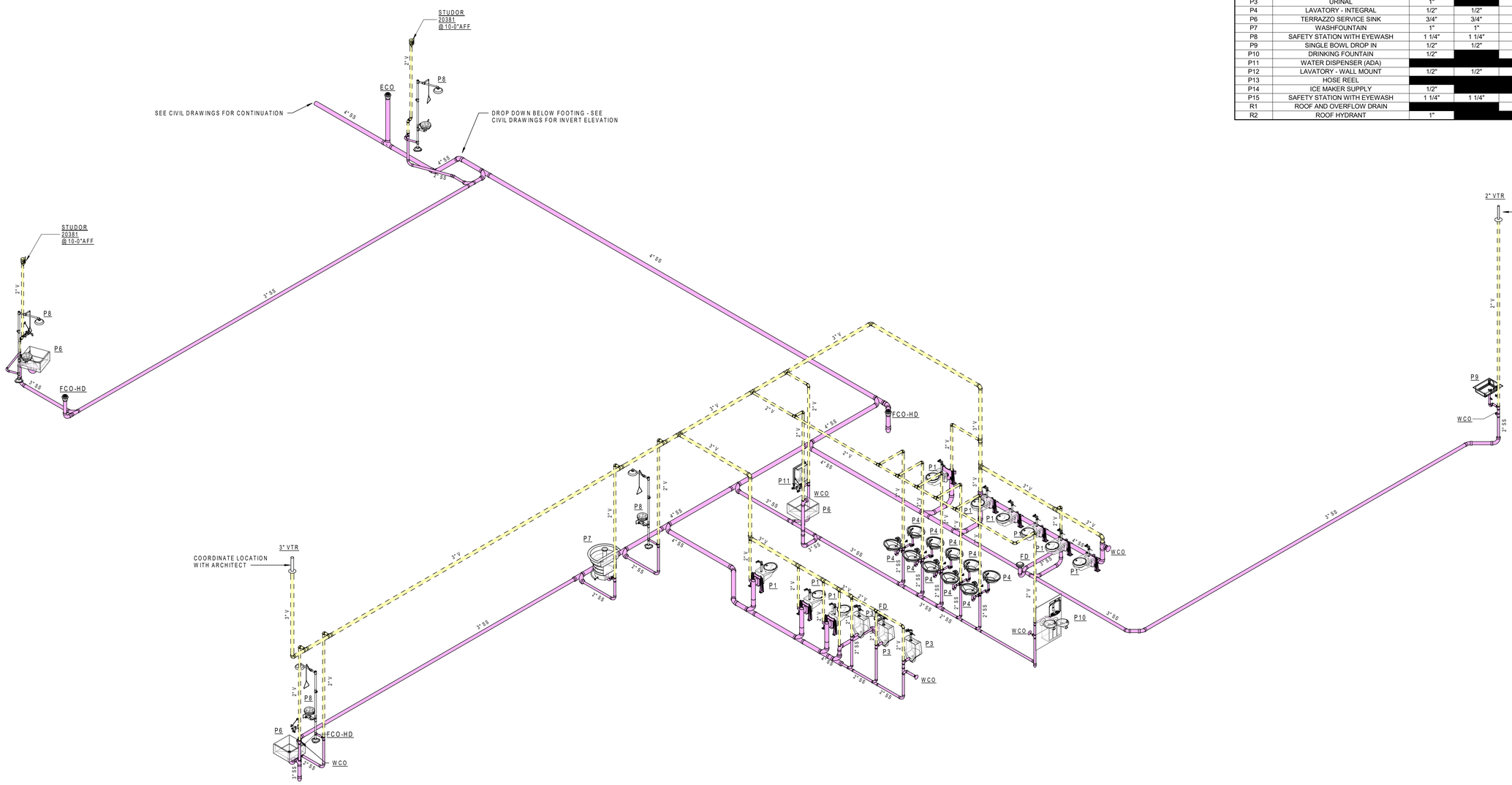
P11	WATER DISPENSER (ADA)			
P12	LAVATORY - WALL MOUNT	1/2"	1/2"	2"
P13	HOSE REEL			
P14	ICE MAKER SUPPLY	1/2"		
P15	SAFETY STATION WITH EYEWASH	1 1/4"	1 1/4"	2"
R1	ROOF AND OVERFLOW DRAIN			4"
R2	ROOF HYDRANT	1"		



1 WASTE & VENT RISER

NORTH

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WASTE & VENT RISER
P5.1

BROWN ENGINEERS, LLC No.1323 — STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — MELANIE C. RICHARDSON — No. 14267

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Suite 300 PMB 323
Little Rock, AR 72223
Phone 501-448-0100
www.brownengineers.net

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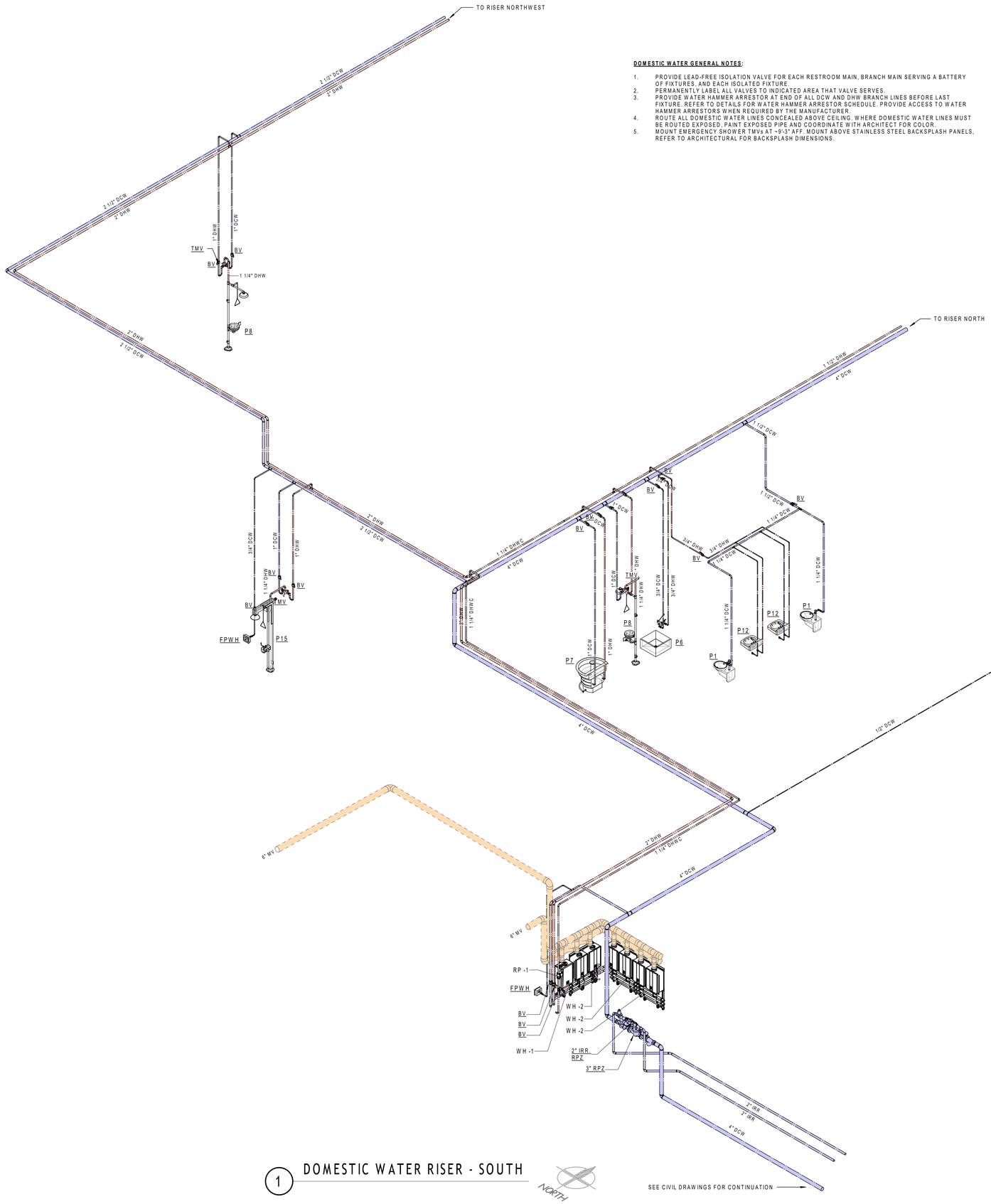

1 DOMESTIC WATER RISER - SOUTH

NORTH

DOMESTIC WATER GENERAL NOTES:

1. PROVIDE LEAD-FREE ISOLATION VALVE FOR EACH RESTROOM MAIN, BRANCH MAIN SERVING A BATTERY OF FIXTURES, AND EACH ISOLATED FIXTURE.
2. PERMANENTLY LABEL ALL VALVES TO INDICATED AREA THAT VALVE SERVES.
3. PROVIDE WATER HAMMER ARRESTOR AT END OF ALL DCW AND DHW BRANCH LINES BEFORE LAST FIXTURE. REFER TO DETAILS FOR WATER HAMMER ARRESTOR SCHEDULE. PROVIDE ACCESS TO WATER HAMMER ARRESTORS WHEN REQUIRED BY THE MANUFACTURER.
4. ROUTE ALL DOMESTIC WATER LINES CONCEALED ABOVE CEILING. WHERE DOMESTIC WATER LINES MUST BE ROUTED EXPOSED, PAINT EXPOSED PIPE AND COORDINATE WITH ARCHITECT FOR COLOR.
5. MOUNT EMERGENCY SHOWER TMVs AT +9'-3" AFF. MOUNT ABOVE STAINLESS STEEL BACKSPLASH PANELS, REFER TO ARCHITECTURAL FOR BACKSPLASH DIMENSIONS.

PLUMBING -- FIXTURE CONNECTION Ø

TAG	DESCRIPTION	BRANCH CONNECTIONS		
		DCW	DHW	SS
AC-1	AIR COMPRESSOR (ROTORY SCREW)			
AD-1	AIR DRYER (REFRIGERATED)			
D1	DOWNSPOUT NOZZLE WITH PERFORATED COVER			6"
ECO	EXTERIOR CLEANOUT			<varies>
FCO-HD	FLOOR CLEANOUT - HEAVY DUTY			<varies>
FD	FLOOR DRAIN			3"
FD2	HUB DRAIN			2"
FPWH	NON-FREEZE WALL HYDRANT	3/4"		
FS	FLOOR SINK 12 INCH SQUARE x 6 INCH DEEP			3"
HB	WALL HYDRANT	3/4"		
P1	WALL HUNG WATER CLOSET	1"		4"
P3	URINAL	1"		2"
P4	LAVATORY - INTEGRAL	1/2"	1/2"	2"
P6	TERRAZZO SERVICE SINK	3/4"	3/4"	3"
P7	WASHFOUNTAIN	1"	1"	2"
P8	SAFETY STATION WITH EYEWASH	1 1/4"	1 1/4"	2"
P9	SINGLE BOWL DROP IN	1/2"	1/2"	2"
P10	DRINKING FOUNTAIN	1/2"		2"
P11	WATER DISPENSER (ADA)			
P12	LAVATORY - WALL MOUNT	1/2"	1/2"	2"
P13	HOSE REEL			
P14	ICE MAKER SUPPLY	1/2"		
P15	SAFETY STATION WITH EYEWASH	1 1/4"	1 1/4"	2"
R1	ROOF AND OVERFLOW DRAIN			4"
R2	ROOF HYDRANT	1"		

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DOMESTIC WATER RISER
P5.2

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DOMESTIC WATER GENERAL NOTES:

1. PROVIDE LEAD-FREE ISOLATION VALVE FOR EACH RESTROOM MAIN, BRANCH MAIN SERVING A BATTERY OF FIXTURES, AND EACH ISOLATED FIXTURE.
2. PERMANENTLY LABEL ALL VALVES TO INDICATED AREA THAT VALVE SERVES.
3. PROVIDE WATER HAMMER ARRESTOR AT END OF ALL DCW AND DHW BRANCH LINES BEFORE LAST FIXTURE. REFER TO DETAILS FOR WATER HAMMER ARRESTOR SCHEDULE. PROVIDE ACCESS TO WATER HAMMER ARRESTORS WHEN REQUIRED BY THE MANUFACTURER.
4. ROUTE ALL DOMESTIC WATER LINES CONCEALED ABOVE CEILING. WHERE DOMESTIC WATER LINES MUST BE ROUTED EXPOSED, PAINT EXPOSED PIPE AND COORDINATE WITH ARCHITECT FOR COLOR.
5. MOUNT EMERGENCY SHOWER TMVs AT +9'-3" AFF. MOUNT ABOVE STAINLESS STEEL BACKSPLASH PANELS. REFER TO ARCHITECTURAL FOR BACKSPLASH DIMENSIONS.

PLUMBING -- FIXTURE CONNECTION Ø

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AD-1	AIR DRYER (REFRIGERATED)			
D1	DOWNSPOUT NOZZLE WITH PERFORATED COVER			6"
ECO	EXTERIOR CLEANOUT			<varies>
FCO-HD	FLOOR CLEANOUT - HEAVY DUTY			<varies>
FD	FLOOR DRAIN			3"
FD2	HUB DRAIN			2"
FPWH	NON-FREEZE WALL HYDRANT	3/4"		
FS	FLOOR SINK 12 INCH SQUARE x 6 INCH DEEP			3"
HB	WALL HYDRANT	3/4"		
P1	WALL HUNG WATER CLOSET	1"		4"
P3	URINAL	1"		2"
P4	LAVATORY - INTEGRAL	1/2"	1/2"	2"
P6	TERRAZZO SERVICE SINK	3/4"	3/4"	3"
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P10	DRINKING FOUNTAIN	1/2"		2"
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P12	LAVATORY - WALL MOUNT	1/2"	1/2"	2"
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P14	ICE MAKER SUPPLY	1/2"		
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R1	ROOF AND OVERFLOW DRAIN			4"
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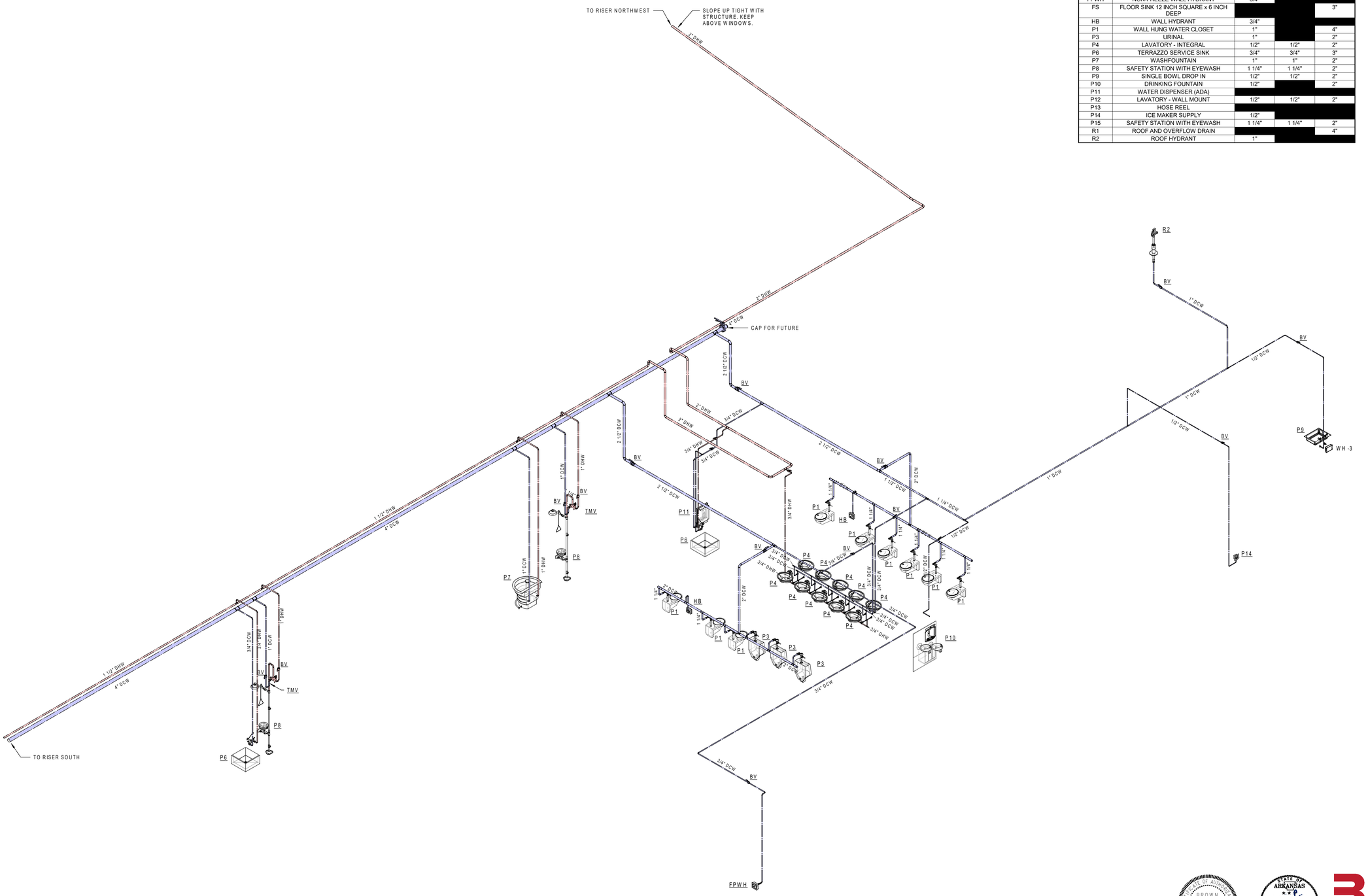

1 DOMESTIC WATER RISER - NORTH

NORTH

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DOMESTIC WATER RISER
P5.3

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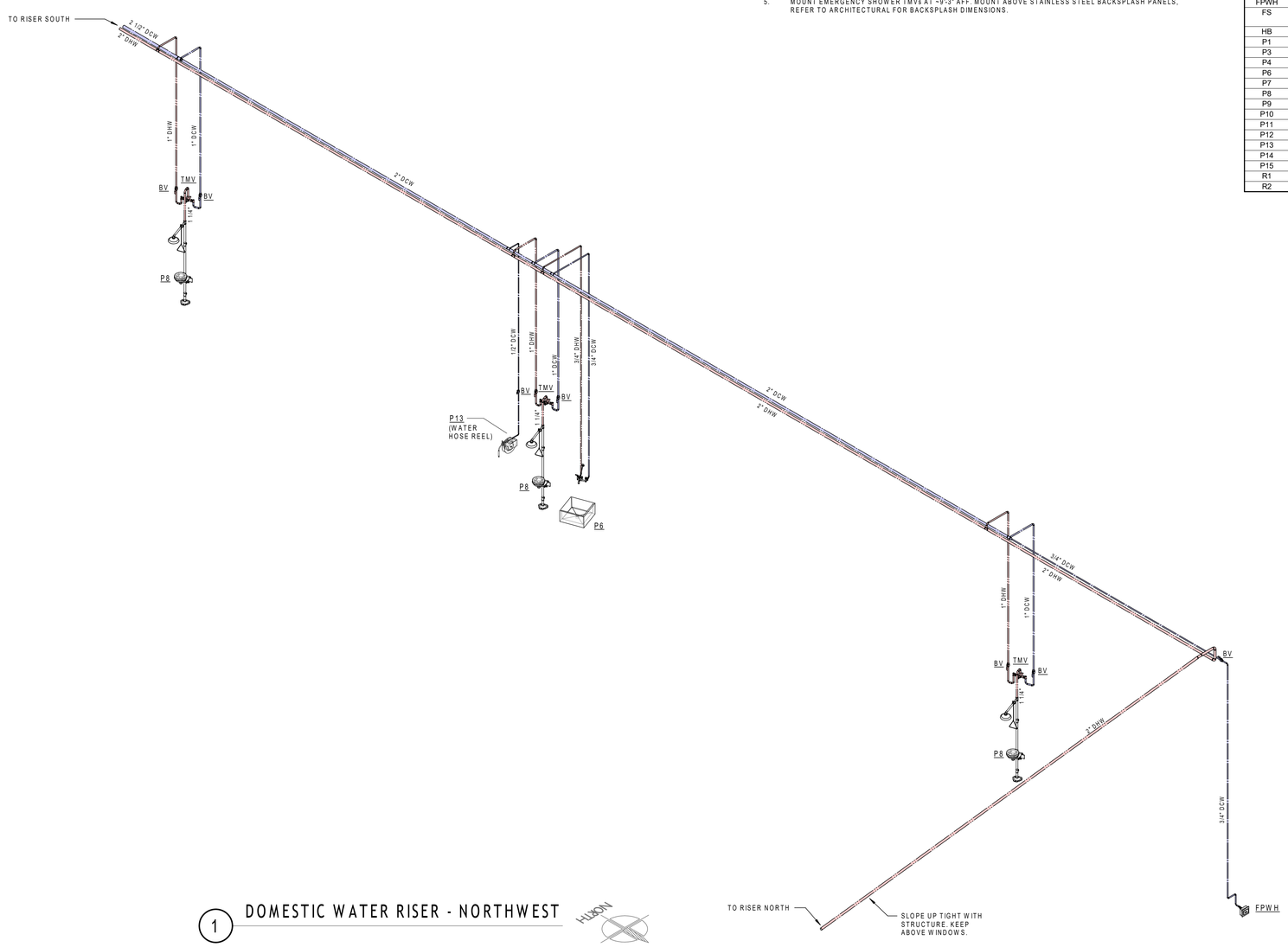

1 DOMESTIC WATER RISER - NORTHWEST

DOMESTIC WATER GENERAL NOTES:

1. PROVIDE LEAD-FREE ISOLATION VALVE FOR EACH RESTROOM MAIN, BRANCH MAIN SERVING A BATTERY OF FIXTURES, AND EACH ISOLATED FIXTURE.
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3. PROVIDE WATER HAMMER ARRESTOR AT END OF ALL DCW AND DHW BRANCH LINES BEFORE LAST FIXTURE. REFER TO DETAILS FOR WATER HAMMER ARRESTOR SCHEDULE. PROVIDE ACCESS TO WATER HAMMER ARRESTORS WHEN REQUIRED BY THE MANUFACTURER.
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5. MOUNT EMERGENCY SHOWER TMVs AT +9'-3" AFF. MOUNT ABOVE STAINLESS STEEL BACKSPLASH PANELS, REFER TO ARCHITECTURAL FOR BACKSPLASH DIMENSIONS.

PLUMBING -- FIXTURE CONNECTION Ø

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		DCW	DHW	SS
AC-1	AIR COMPRESSOR (ROTORY SCREW)			
AD-1	AIR DRYER (REFRIGERATED)			
D1	DOWNSPOUT NOZZLE WITH PERFORATED COVER			6"
ECO	EXTERIOR CLEANOUT			<varies>
FCO-HD	FLOOR CLEANOUT - HEAVY DUTY			<varies>
FD	FLOOR DRAIN			3"
FD2	HUB DRAIN			2"
FPWH	NON-FREEZE WALL HYDRANT	3/4"		
FS	FLOOR SINK 12 INCH SQUARE x 6 INCH DEEP			3"
HB	WALL HYDRANT	3/4"		
P1	WALL HUNG WATER CLOSET	1"		4"
P3	URINAL	1"		2"
P4	LAVATORY - INTEGRAL	1/2"	1/2"	2"
P6	TERRAZZO SERVICE SINK	3/4"	3/4"	3"
P7	WASHFOUNTAIN	1"	1"	2"
P8	SAFETY STATION WITH EYEWASH	1 1/4"	1 1/4"	2"
P9	SINGLE BOWL DROP IN	1/2"	1/2"	2"
P10	DRINKING FOUNTAIN	1/2"		2"
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P13	HOSE REEL			
P14	ICE MAKER SUPPLY	1/2"		
P15	SAFETY STATION WITH EYEWASH	1 1/4"	1 1/4"	2"
R1	ROOF AND OVERFLOW DRAIN			4"
R2	ROOF HYDRANT	1"		

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DOMESTIC WATER RISER
P5.4

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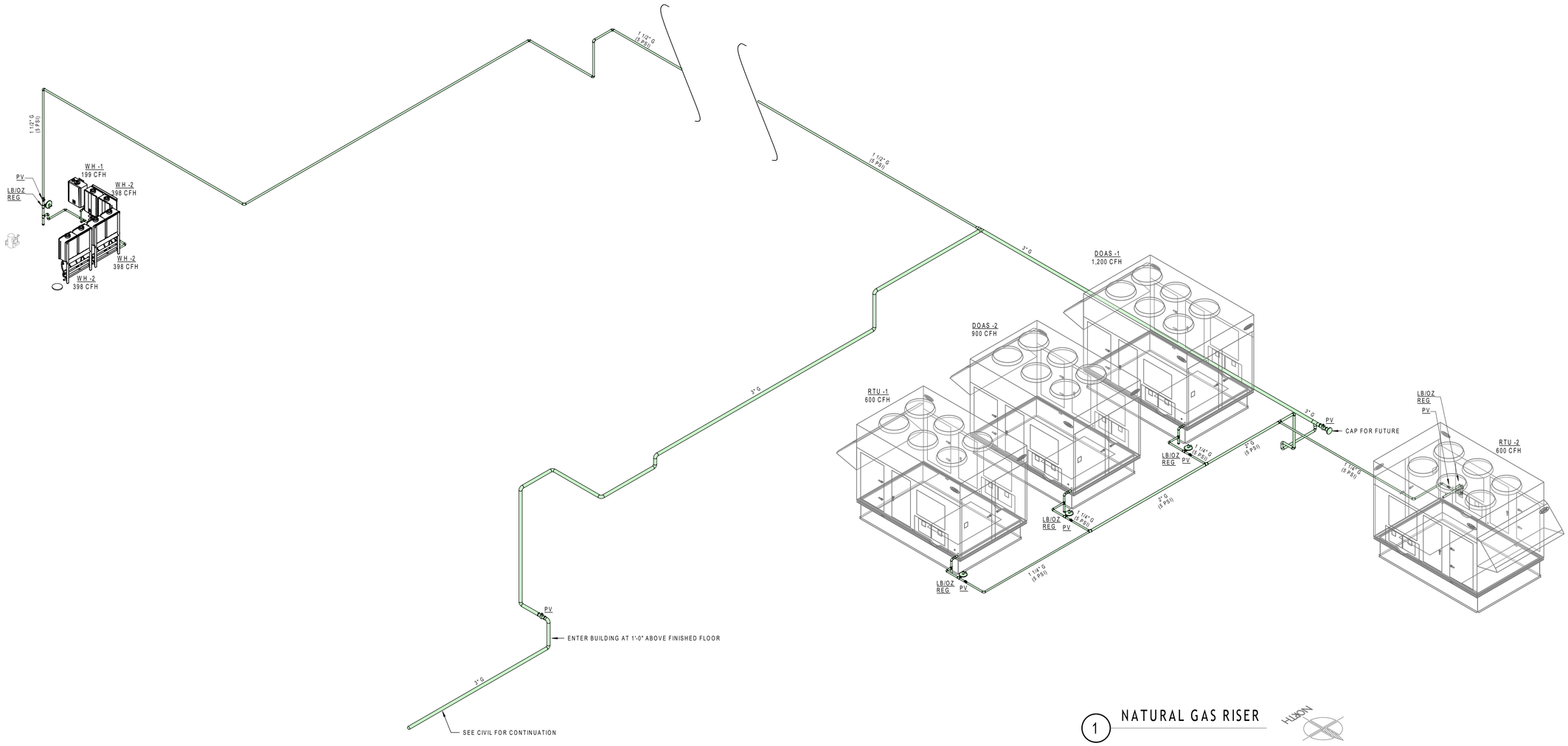
NATURAL GAS GENERAL NOTES:

1. ALL GAS PIPE SIZING IS BASED ON SYSTEM LONGEST LENGTH FROM THE REGULATOR AND EQUIPMENT DEMAND SHOWN ON THE SCHEMATIC. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER IF CONDITIONS DIFFER FROM SCHEMATIC PLAN.
2. REFER TO CIVIL DETAILS AND SPECIFICATIONS FOR INSTALLATION OF EXTERIOR OR BELOW GRADE PIPING.
3. REFER TO DETAILS FOR GAS CONNECTION TO MECHANICAL EQUIPMENT REQUIREMENTS.

NATURAL GAS DESIGN NOTES:

1. SYSTEM PRESSURE: 5 PSI
2. SYSTEM LONGEST LENGTH: 1200 FT



1 NATURAL GAS RISER

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NATURAL GAS RISER
P5.5

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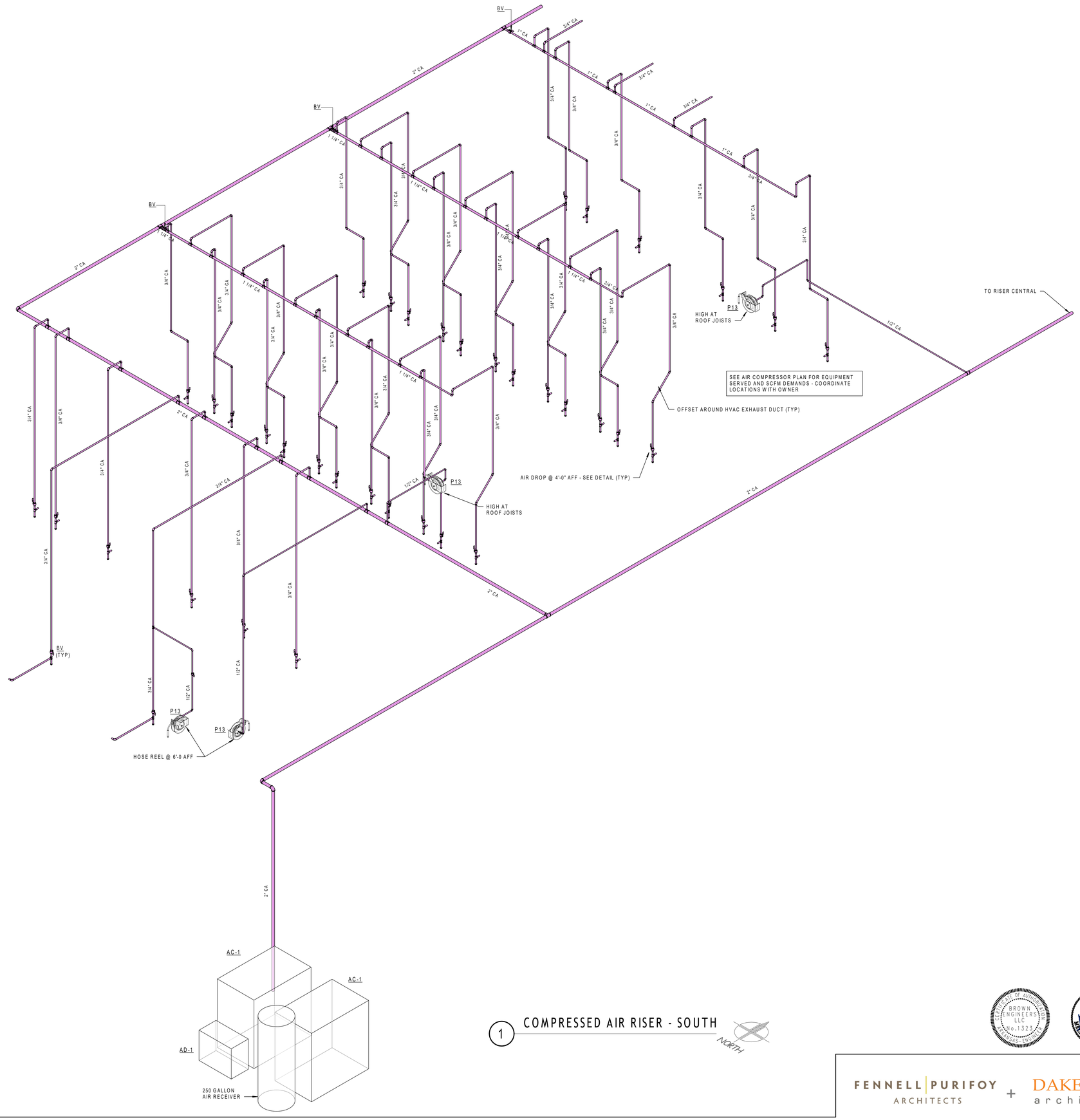

1 COMPRESSED AIR RISER - SOUTH

NORTH

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COMPRESSED AIR RISER

P5.6

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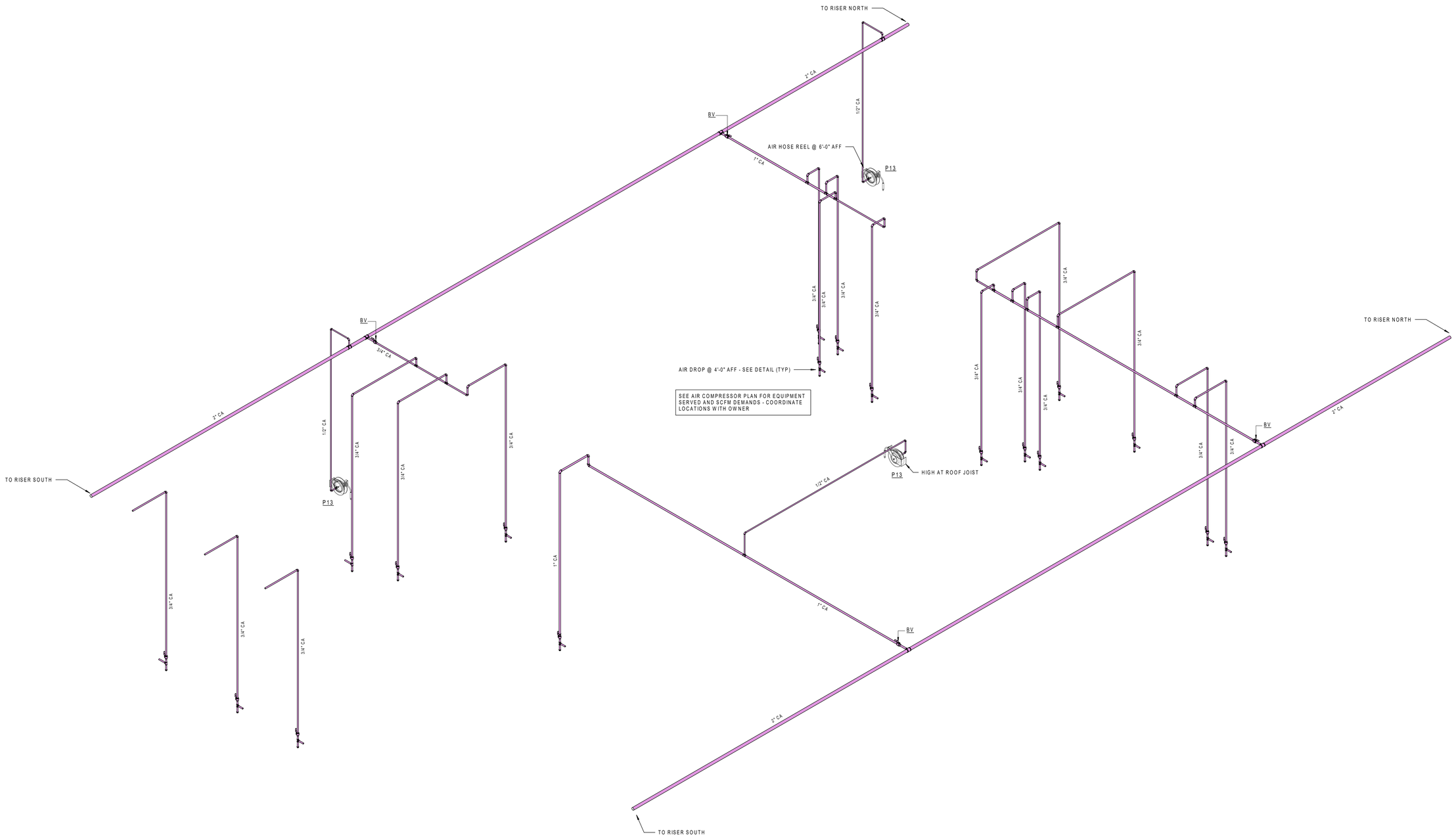

1 COMPRESSED AIR RISER - CENTRAL

NORTH

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COMPRESSED AIR RISER
P5.7

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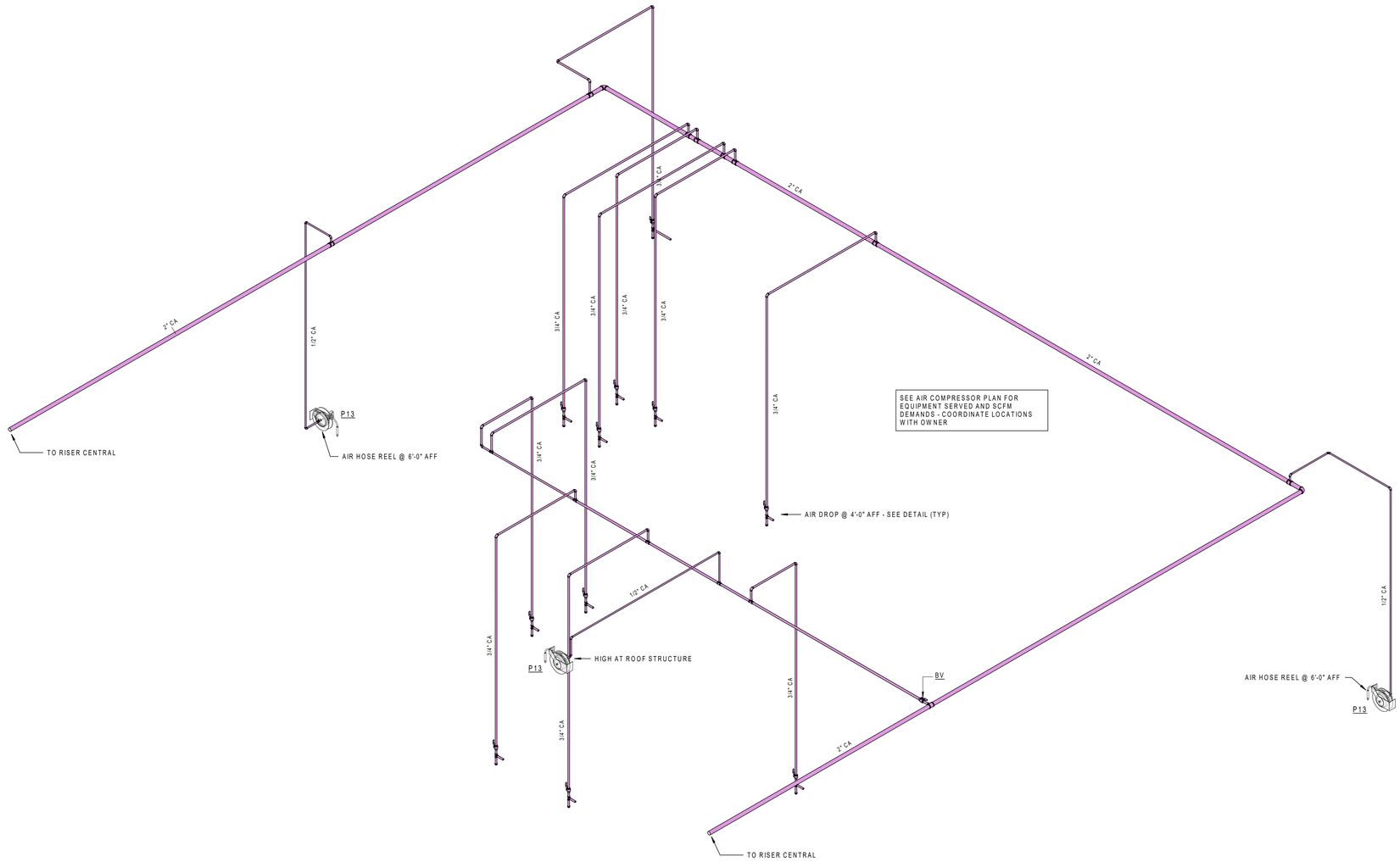

1 COMPRESSED AIR RISER - NORTH

NORTH

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COMPRESSED AIR RISER
P5.8

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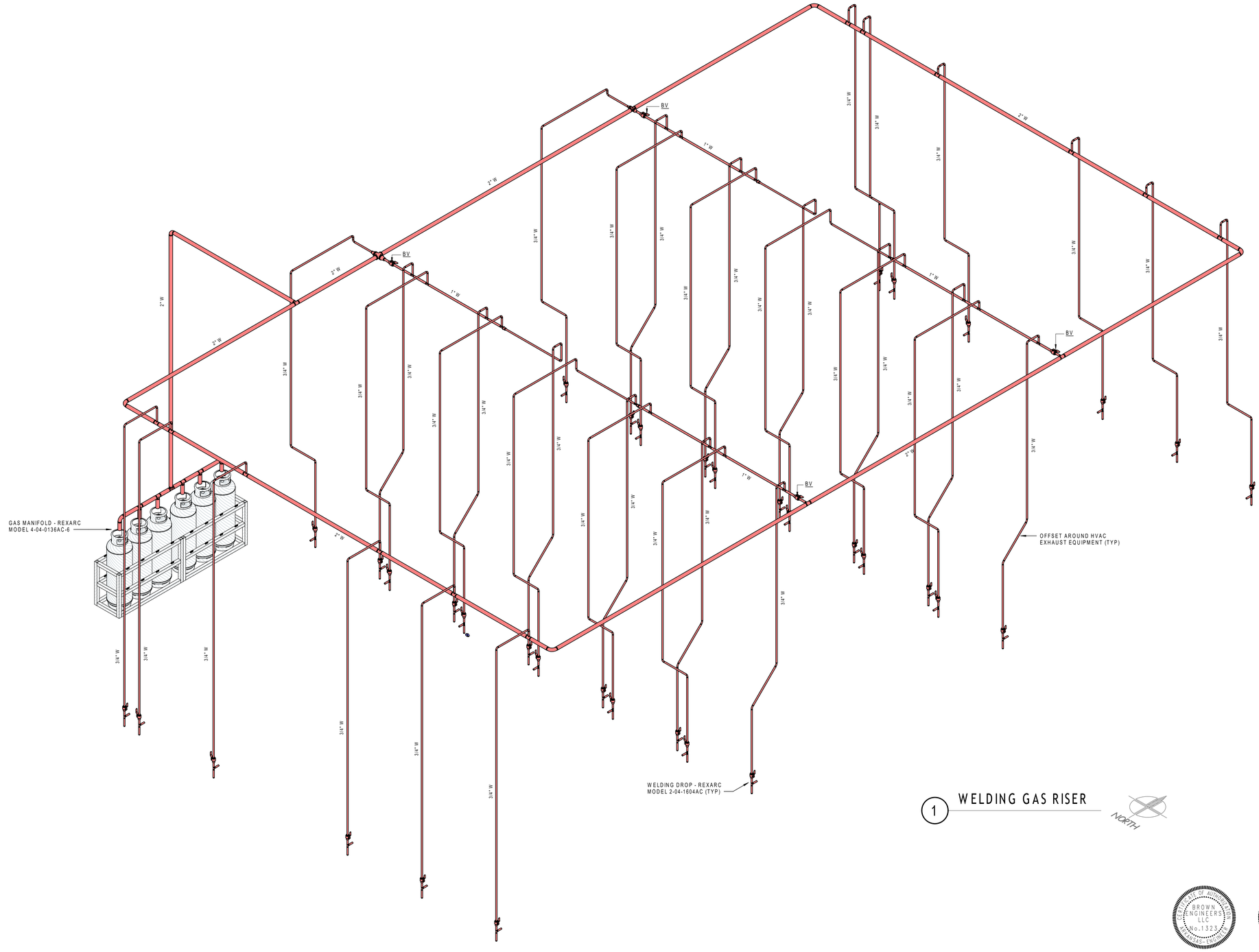

1 WELDING GAS RISER

NORTH

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WELDING GAS RISER
P5.9

BROWN ENGINEERS LLC
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PLUMBING -- FIXTURE CONNECTION Ø

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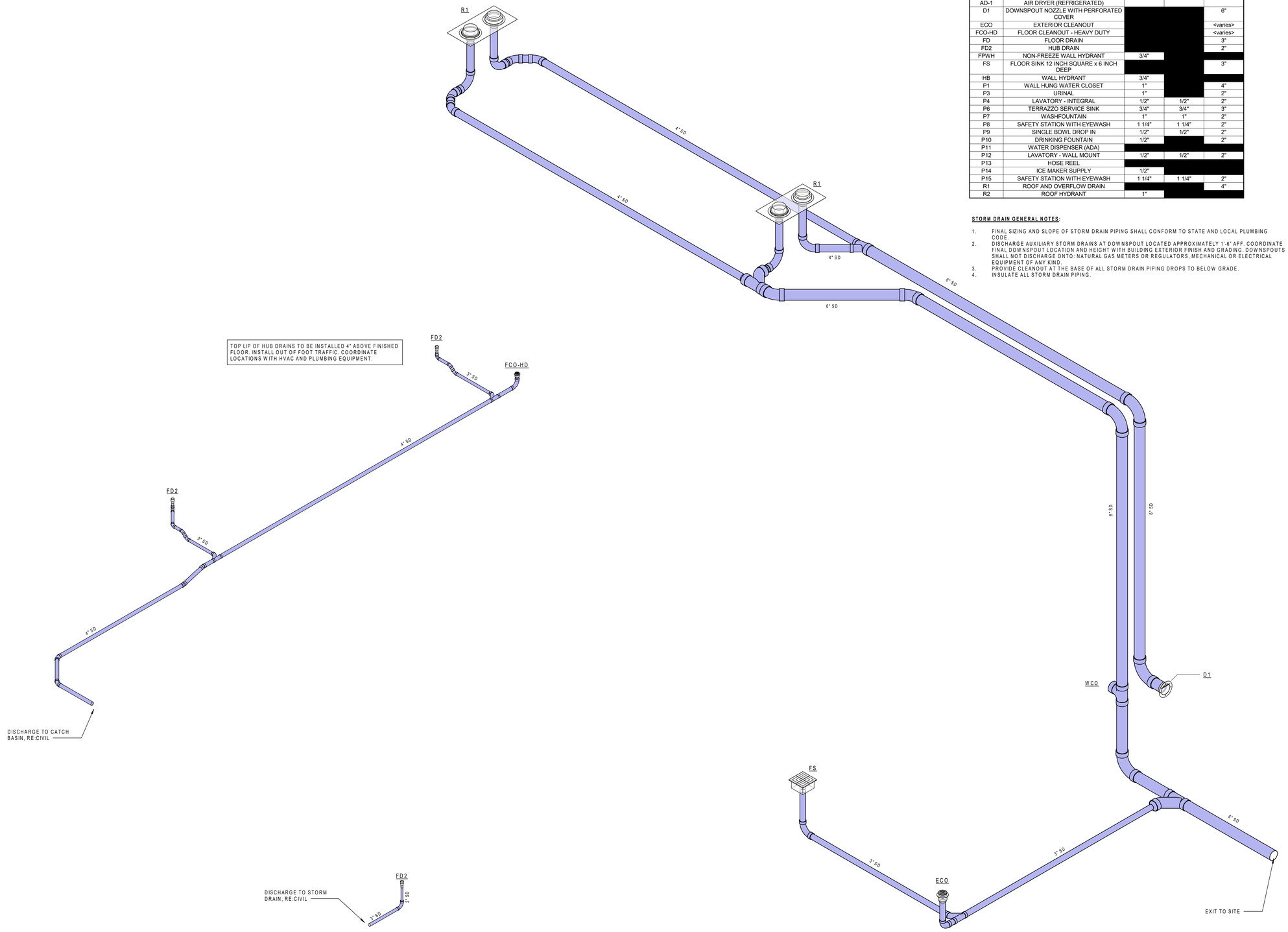
R1	ROOF AND OVERFLOW DRAIN			4"
R2	ROOF HYDRANT	1"		

STORM DRAIN GENERAL NOTES:

1. FINAL SIZING AND SLOPE OF STORM DRAIN PIPING SHALL CONFORM TO STATE AND LOCAL PLUMBING CODE.
2. DISCHARGE AUXILIARY STORM DRAINS AT DOWNSPOUT LOCATED APPROXIMATELY 1'-6" AFF. COORDINATE FINAL DOWNSPOUT LOCATION AND HEIGHT WITH BUILDING EXTERIOR FINISH AND GRADING. DOWNSPOUTS SHALL NOT DISCHARGE ONTO: NATURAL GAS METERS OR REGULATORS, MECHANICAL OR ELECTRICAL EQUIPMENT OF ANY KIND.
3. PROVIDE CLEANOUT AT THE BASE OF ALL STORM DRAIN PIPING DROPS TO BELOW GRADE.
4. INSULATE ALL STORM DRAIN PIPING.



1 STORM DRAIN RISER

NORTH

TOP LIP OF HUB DRAINS TO BE INSTALLED 4" ABOVE FINISHED FLOOR. INSTALL OUT OF FOOT TRAFFIC. COORDINATE LOCATIONS WITH HVAC AND PLUMBING EQUIPMENT.

2 STORM DRAIN RISER

NORTH

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STORM DRAIN RISER
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