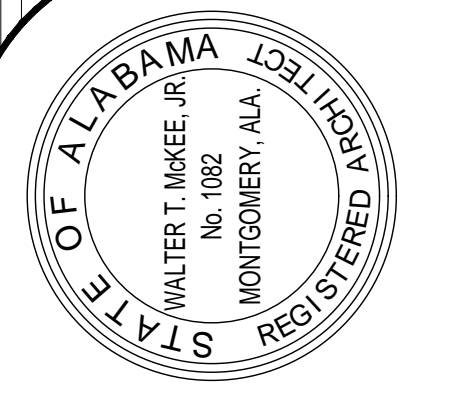


NEW ADMIN BUILDING AT Red Bay High School FOR THE Franklin County Board of Education

RUSSELLVILLE, ALABAMA
DCM# 2024019

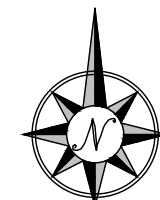
NEW ADMIN BUILDING
AT
RED BAY HIGH SCHOOL
FOR THE
FRANKLIN COUNTY BOARD OF EDUCATION

MCKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933

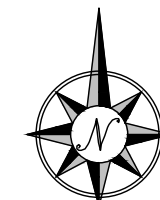


| GENERAL | | ARCHITECTURAL | | ELECTRICAL | |
|------------|---|---------------|--|------------|--|
| G0.1 | TITLE SHEET AND INDEX TO DRAWINGS | A0 | ARCHITECTURAL SITE PLAN | E0.1 | ELECTRICAL LEGEND AND NOTES |
| G1.1 | CODE PLAN | A1.1 | FLOOR PLANS | E0.2 | ELECTRICAL LEGEND AND NOTES |
| CIVIL | | A2.1 | REFLECTED CEILING AND ROOF PLANS | E0.3 | TRENCHING DETAILS AND NOTES |
| C-0.1 | GENERAL NOTES | A4.0 | EXTERIOR ELEVATIONS | E1.1 | ELECTRICAL SITE PLAN |
| C-1.0 | EXISTING CONDITIONS | A5.1 | BUILDING SECTIONS | E2.1 | LIGHTING PLAN |
| C-1.1 | DEMOLITION PLAN | A6.1 | WALL SECTIONS | E2.2 | LIGHTING CONTROLS, DETAIL, AND NOTES |
| C-2.0 | SITE PLAN | A8.1 | DOOR AND ROOM FINISH SCHEDULES | E3.1 | POWER PLAN |
| C-3.0 | GRADING AND DRAINAGE PLAN | A8.2 | DOOR DETAILS | E3.2 | GENERAL EQUIPMENT SCHEDULE AND DETAILS |
| C-4.0 | EROSION AND SEDIMENT CONTROL PLAN | A9.1 | MISCELLANEOUS DETAILS | E4.1 | AUXILIARY PLAN |
| C-5.0 | UTILITY PLAN | A9.2 | MISCELLANEOUS DETAILS | E5.1 | LIGHTING SCHEDULE, DETAILS, AND NOTES |
| C-6.0 | STANDARD DETAILS | A10.1 | CASEWORK ELEVATIONS | E5.2 | PANELBOARD SCHEDULE, DETAILS, AND NOTES |
| C-6.1 | STANDARD DETAILS | PLUMBING | | E6.1 | FIRE ALARM RISER DIAGRAM, DETAILS, AND NOTES |
| STRUCTURAL | | P1 | PLUMBING SCHEDULES, NOTES, AND DETAILS | E6.2 | COMMUNICATIONS RISER, DETAILS, AND NOTES |
| S0.1 | GENERAL NOTES, SCHEDULES, TYPICAL DETAILS | P2 | PLUMBING DETAILS AND RISERS | E6.3 | COMMUNICATIONS RISER, DETAILS, AND NOTES |
| S0.2 | TYPICAL DETAILS | P3 | PLUMBING FLOOR PLANS | E7.1 | POWER RISER DIAGRAM, DETAILS, AND NOTES |
| S1.1 | FRAMING PLANS | MECHANICAL | | E7.2 | GROUNDING DETAILS AND NOTES |
| S2.1 | SECTIONS AND DETAILS | M1 | HVAC FLOOR PLAN | E7.3 | GROUNDING DETAILS AND NOTES |
| | | M2 | HVAC SCHEDULES AND DETAILS | | |
| | | M3 | HVAC O.A. CALCULATIONS AND DETAILS | | |

LOCATION MAP



VICINITY MAP



CONTACTS

| | | |
|--|--|---|
| OWNER Franklin County Board of Education 500 North Coffee Avenue Russellville, Alabama 36653 Phone: (256) 332.1360 | ARCHITECTURAL McKee and Associates 631 South Hull Street Montgomery, Alabama 36104 Phone: (334) 834.9933 | CIVIL Morell Engineering, Inc. 112 North Marion Street Athens, Alabama 35611 Phone: (256) 867.1324 |
| STRUCTURAL Blackburn, Daniels, O'barr Consulting Structural Engineers 1005 Browns Hill Road Lowndesboro, Alabama 36752 Phone: (334) 265.0206 | PLUMBING and MECHANICAL Zgouvas, Eiring and Associates 800 South McDonough Street Montgomery, Alabama 36104 Phone: (334) 263.4406 | ELECTRICAL Gunn and Associates 3102 Highway 14 Millbrook, AL 36054 Phone: (334) 285.1273 |

SHEET TITLE : COVER SHEET

MCKEE JOB # : 23-251

DRAWN BY : JRB

DATE : 05.18.2024

REVISED DATE :

REVISED DATE :

REVISED DATE :

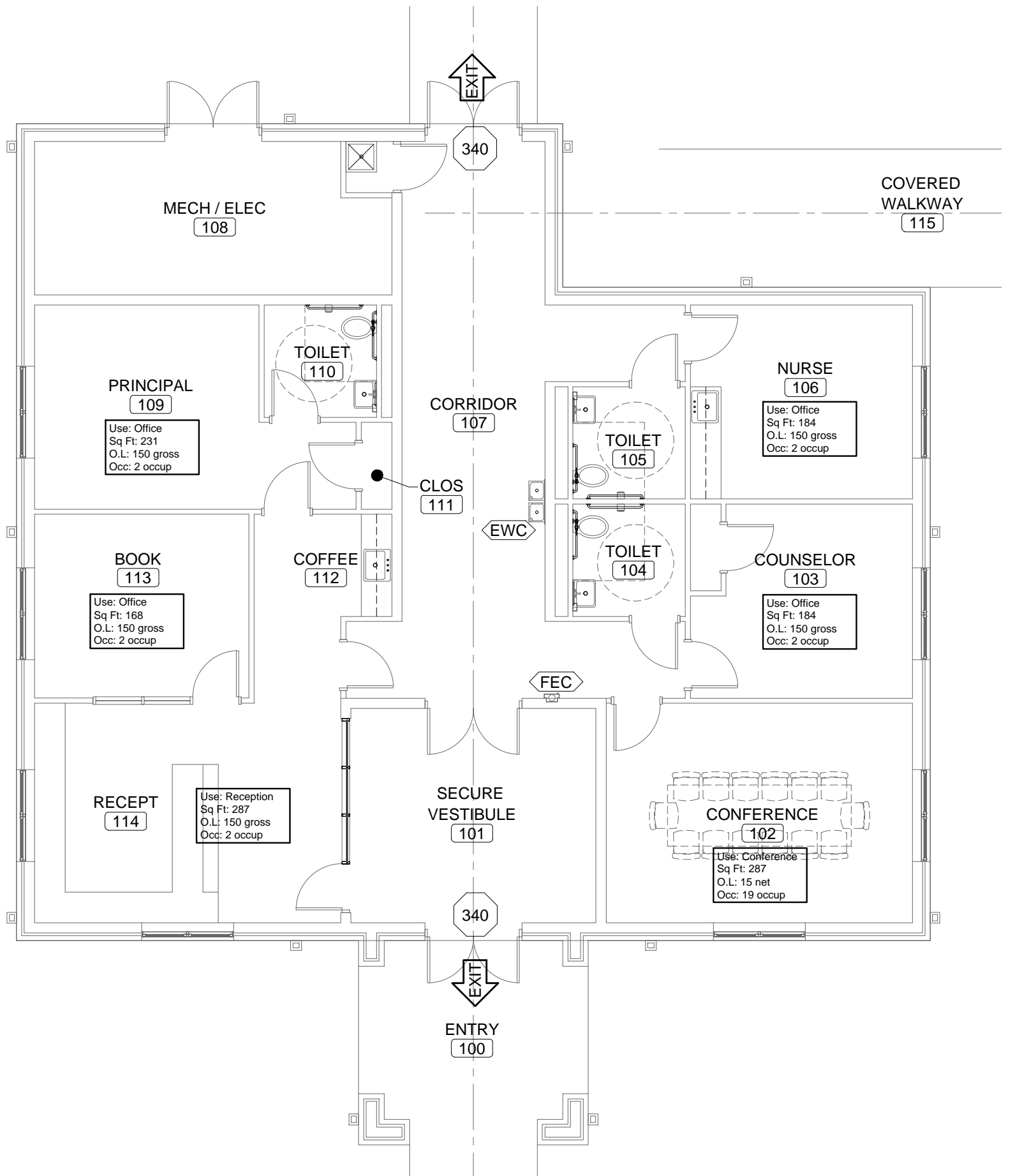
SHEET NO. : **G0.1**

| PLUMBING CALCULATIONS |
|---|
| PLUMBING REQUIREMENTS |
| OCCUPANT LOAD TOTAL = 29 PERSONS |
| TOILETS (TABLE 2902.1) MENS (1 PER 25 OCC.) (15 OCC.): 1R WOMENS (1 PER 25 OCC.) (15 OCC.): 1R |
| LAVATORIES (TABLE 2902.1) MENS (1 PER 40 OCC.) (15 OCC.): 1R WOMENS (1 PER 40 OCC.) (15 OCC.): 1R |
| DRINKING FOUNTAINS (TABLE 2902.1) (1 PER 100 OCC.) (29 OCC.): 1R |
| SERVICE SINK (TABLE 2902.1): 1R |
| PLUMBING PROVIDED TOTAL |
| TOILETS (TABLE 2902.1) MENS - 1 PROVIDED WOMENS - 2 PROVIDED |
| LAVATORIES (TABLE 2902.1) MENS - 1 PROVIDED WOMENS - 2 PROVIDED |
| DRINKING FOUNTAINS (TABLE 2902.1) 2 PROVIDED |
| SERVICE SINK (TABLE 2902.1): 1 PROVIDED |

| CODE REVIEW |
|--|
| CODE: 2021 INTERNATIONAL BUILDING CODE |
| OCCUPANCY TYPE: B |
| SPRINKLERED: NO |
| NUMBER OF STORIES: 1 |
| CONSTRUCTION TYPE: TYPE III-B |
| TYPE III-B, REQUIRES THE FOLLOWING FIRE RESISTANCE (TABLE 601): |
| STRUCTURAL FRAME: 0 HOUR |
| EXTERIOR BEARING WALLS: 2 HOUR |
| INTERIOR BEARING WALLS: 0 HOUR |
| EXTERIOR NONBEARING WALLS: 0 HOUR |
| INTERIOR NONBEARING WALLS: 0 HOUR |
| FLOOR CONSTRUCTION: 0 HOUR |
| ROOF CONSTRUCTION: 0 HOUR |
| OTHER REQUIREMENTS: |
| OCCUPANCY SEPARATION (TABLE 508.4): NO MIXED OCCUPANCY |
| INCIDENTAL USE AREAS (TABLE 509.1): N/A |
| CORRIDORS (1020.2,): NOT REQUIRED - OCCUPANT LOAD LESS THAN 30 |
| STAIRS & SHAFT ENCLOSURES (707 & TABLE 707.3.10 NOT LEES THAN 508.4 IF APPLICABLE): NONE |
| SINGLE OCCUPANCY FIRE BARRIERS (TABLE 707.3.10): NOT APPLICABLE |
| ALLOWABLE EXIT ACCESS TRAVEL DISTANCE: 200 FEET FOR NON-SPRINKLERED EDUCATIONAL OCCUPANCY (TABLE 1017.2) |

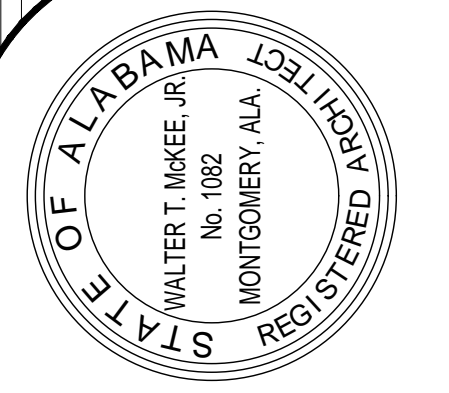
| EXIT CALCULATIONS |
|---|
| TOTAL BUILDING AREA |
| OCCUPANCY TYPE - 'B' |
| BUILDING TYPE: III-B NON-SPRINKLERED |
| ALLOWABLE AREA FACTOR: 19,000 SQ FT (TABLE 506.2) |
| ACTUAL SF: 2,926 SQ FT |
| ALLOWABLE HEIGHT (TABLE 504.3) ALLOWABLE # OF STORIES (TABLE 504.4) |
| ALLOWABLE HEIGHT: 55 FT |
| ALLOWABLE NO. OF STORIES: 3 |
| ACTUAL BUILDING HEIGHT: ± 18 FT |
| ACTUAL NO. OF STORIES: 1 |
| BUILDING AREA MODIFICATION (506.3) |
| FRONTAGE INCREASE (506.3.3) - NOT NEEDED |
| OCCUPANT LOAD |
| OCCUPANT LOAD TOTAL (1004 & TABLE 1004.1.2) = 29 PERSONS |
| EXIT REQUIREMENTS |
| EXIT ACCESS (TABLE 1006.2.1 & TABLE 1006.3.3) |
| NO. OF EXITS REQUIRED: 2 |
| NO. OF EXITS FURNISHED: 2 |
| MEANS OF EGRESS WIDTH (1005.3) |
| SEE PLAN FOR EXIT WIDTHS. |
| EXITS PROVIDED HAVE A COMBINED EXIT CAPACITY OF 680 PEOPLE. |
| MINIMUM CORRIDOR WIDTH (TABLE 1020.2) 72 INCHES |

| CODE LEGEND | |
|-------------|--------------------------------------|
| SYMBOL | DESCRIPTION |
| | PRIMARY BUILDING EXIT |
| | TRAVEL DISTANCE NEAREST TO EXIT |
| | HANDICAP ACCESSIBLE |
| | FIRE EXTINGUISHER CABINET |
| | CALCULATED EGRESS CAPACITY (PERSONS) |



PLAN NORTH
LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

NEW ADMIN BUILDING
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 FOR THE
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 631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9833



SHEET TITLE : CODE PLAN
 MCKEE JOB # : 23-251
 DRAWN BY : JRB
 DATE: 05.18.2024
 REVISED DATE:
 REVISED DATE:
 REVISED DATE:

SHEET NO. : G1.1

GENERAL NOTES

- THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES CONCERNING CONFLICTS, RELOCATION, REMOVAL, AND INTERRUPTIONS OF SERVICE.
- THE CONTRACTOR SHALL PRESERVE AND PROTECT ACCORDING TO THE INSTRUCTIONS OF THE UTILITY INVOLVED, ANY 'LIVE' UTILITIES LOCATED BY THE UTILITY COMPANY OR THE CONTRACTOR.
- THE CONTRACTOR SHALL BE IN POSSESSION OF ALL REQUIRED PERMITS PRIOR TO ANY CONSTRUCTION BEGINNING.
- ANY CHANGES OR REVISIONS MADE TO THE SITE PLANS SHALL BE SUBMITTED FOR APPROVAL TO THE ALABAMA BUILDING COMMISSION AND ALL OTHER PERTINENT AGENCIES
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS NOT ACCEPTABLE TO THE OWNER AND ENGINEER.
- IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THE CONTRACTOR SHALL MAKE A TOPOGRAPHIC SURVEY AT THEIR OWN EXPENSE AND SUBMIT IT TO THE OWNER FOR REVIEW.
- CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL UTILITIES BEFORE CONSTRUCTION AND VERIFYING LOCATION OF ALL UTILITIES SHOWN OR NOT SHOWN.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, SIDEWALKS ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- UNSTABLE AND PUMPING SUBGRADE CONDITIONS MAY OCCUR DURING SITE PREPARATION AND GRADING OPERATIONS. PROPER PROTECTION OF SUBGRADE, DRAINAGE AND DE-WATERING WILL BE CRITICAL TO SITE CONSTRUCTION EFFORTS. IT SHALL BE THE RESPONSIBLY OF THE CONTRACTOR TO MINIMIZE TRAFFIC ACROSS THE SITE. EVERY EFFORT SHALL BE MADE TO LOCALIZE EQUIPMENT STAGING AND TRAFFIC TO SPECIFIC AREAS AND LIMIT THE AMOUNT OF UNDERCUTTING AND SOIL STABILIZATION THAT MY BE NEEDED. UNDERCUTTING AND OTHER REPAIRS NECESSARY BECAUSE OF THE CONTRACTOR'S FAILURE TO DO SO WILL BE MADE AT HIS EXPENSE. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR FURTHER RECOMMENDATIONS.
- ALL GRADING OPERATIONS SHALL BE MONITORED BY A QUALIFIED GEOTECHNICAL CONSULTANT AS CHOSEN AND PAID FOR BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING SAID CONSULTANT IN ADVANCE OF ALL REQUIRED TESTING AND SECURING COPIES OF THE RESULTING REPORTS.
- THE CONTRACTOR SHALL PAY ALL CONNECTION COSTS AND FEES, INCLUDING BY NOT LIMITED TO, TAPPING FEES, METER COSTS AND SETTING CHARGES, AND CONNECTION CHARGES.
- ANY EXISTING ABANDONED SANITARY SEWER LATERALS, WATER LINES, STORM SEWERS AND GAS LINES, ETC. SHALL BE CAPPED AND PLUGGED OR REMOVED AS REQUIRED BY THE APPROPRIATE UTILITY PROVIDER OR GOVERNING AGENCY, AND SHOULD BE PERFORMED PER THE RESPECTIVE ENTITY'S STANDARDS AND SPECIFICATIONS.
- ALL SPOT ELEVATIONS ARE AT TOP OF CURB, PAVEMENT EDGE, GUTTER LINE, OR GROUND LEVEL UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS SHOWN ARE TO THE BACK OF CURB, FACE OF BUILDING OR AS SHOWN IN THE PLANS.
- ALL STORM DRAIN MATERIAL SHALL BE RCP UNLESS OTHERWISE SPECIFIED.

EROSION CONTROL NOTES

- SITE EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS, CODES, AND REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A "NOTICE OF INTENT"(NOI) FROM ADEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MONITORING, INSPECTIONS, ETC. TO ENSURE THE OWNER THAT THE SITE IS AT ALL TIMES IN ACCORDANCE WITH ADEM RULES & REGULATIONS. DOCUMENTATION OF INSPECTIONS BY A Q.C.I. OR Q.C.P. SHALL BE MAINTAINED BY THE CONTRACTOR AND PROVIDED TO THE OWNER AT HISHER REQUEST. ANY AND ALL FEES, FINES, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING THE CONSTRUCTION PROCESS AND UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL EROSION CONTROL INSTALLATION AND MAINTENANCE SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
- EROSION CONTROL DEVICES SHOWN ON THESE PLANS ARE A MINIMUM. ADDITIONAL DEVICES SHALL BE INSTALLED AS REQUIRED TO PREVENT SILTATION, EROSION AND OTHER DEGRADATION OR POLLUTION TO THE SITE OR ADJACENT PROPERTIES, STREAMS, DITCHES, AND PUBLIC ROADWAYS.
- EROSION CONTROL DEVICES SHALL INCLUDE, BUT NOT LIMITED, TO THE FOLLOWING DEVICES: SILT FENCING, SEDIMENT BASINS, DETENTION PONDS, STRAW WATTLES, CHECK DAMS, FILTER BERMS, JUTE MATTING, VEGETATIVE FILTER STRIPS, TURF REINFORCEMENT MAT, DIVERSION BERMS, ETC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES IN GOOD OPERATING CONDITION DURING ALL LAND DISTURBING ACTIVITIES. THIS RESPONSIBILITY SHALL INCLUDE THE CLEANUP AND/OR REPAIRS TO THE DEVICES AT NO ADDITIONAL COST TO THE OWNER.
- EROSION CONTROL DEVICES SHALL BE MONITORED AND MAINTAINED UNTIL THE SITE HAS BEEN PERMANENTLY STABILIZED AND AFTER EACH RAINFALL GREATER THAN 0.75 INCHES IN A 24 HOUR PERIOD, ANY WIND GUSTS GREATER THAN 25 MPH, AND ANY SUSTAINED WINDS GREATER THAN 20 MPH IN A 24 HOUR PERIOD.
- AFTER ALL LAND DISTURBANCE ACTIVITIES HAVE CEASED AND AFTER ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED, THE EROSION CONTROL DEVICES SHALL BE REMOVED BY THE CONTRACTOR AND THE AREA CLEANED AND DRESSED.
- DEWATERING OPERATIONS MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE OR POLLUTION TO ADJACENT PROPERTIES, STREAMS, DITCHES, OR PUBLIC ROADWAYS.
- A GRAVELED ACCESS DRIVE OF SUFFICIENT SIZE SHALL BE AT EACH SITE ENTRANCE/EXIT TO PREVENT TRACKING OF DIRT AND SEDIMENT ONTO PUBLIC OR PRIVATE ROADWAYS. IF SEDIMENT REACHES THE ROADWAY, THEN IT MUST BE CLEANED AT THE END OF EACH WORKDAY.
- ALL LAND DISTURBANCE ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE EXPOSURE OF BARE AREAS AT ANY ONE TIME.
- ALL DISTURBED AREAS LEFT INACTIVE FOR MORE THAN 13 DAYS SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH ALDOT SPECIFICATIONS SECTION 652 AND 656.
- ALL PREVIOUSLY GRADED AREAS SHALL RECEIVE 4 INCHES OF TOPSOIL AND PERMANENT GRASSING UNLESS OTHERWISE INDICATED ON THE LANDSCAPE PLAN.
- PRIOR TO SITE CLEARING, ALL PERIMETER SILT FENCING, BRUSH BERMS, ETC. AND GRAVELED ACCESS DRIVES SHALL BE INSTALLED.
- ALL EXISTING STREAMS, DITCHES, ETC. SHALL BE PROTECTED FROM SEDIMENTS AND SILTS BY SILT FENCING, WATTLES, BRUSH BERMS, ETC.
- WATTLES OR SILT FENCING SHALL BE INSTALLED AT ALL INLETS UPON THE COMPLETION OF EACH INLET.
- RIP RAP SHALL BE PLACED AT EACH HEADWALL IMMEDIATELY FOLLOWING CONSTRUCTION OF EACH HEADWALL.
- GEOTEXTILE SHALL BE PLACED ON ALL DITCH BOTTOMS & 1' UP EACH SIDE. GEOTEXTILE SHALL BE NORTH AMERICAN GREEN SC150 OR APPROVED EQUAL UNLESS OTHERWISE NOTED ON PLANS. ALL GEOTEXTILES SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.

TEMPORARY SEEDING SPECIFICATION:

- REFERENCE: ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION, SECTION 665, SECTION 860, AND OTHERS THAT APPLY.

PERMANENT SEEDING SPECIFICATION:

- REFERENCE: ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION, SECTION 650, SECTION 652, SECTION 860 AND OTHERS THAT APPLY. USE ZONE 1 - AREAS SUBJECT TO FREQUENT MOWING.

SODDING SPECIFICATION:

- SEE ARCH SITE PLAN FOR LOCATIONS.
- REFERENCE: ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION, SECTION 650, SECTION 654, SECTION 860 AND OTHERS THAT APPLY.
- THE SOD SHALL BE OF COMMON TIFLAWN BERMUDAGRASS, CENTPEDE, ZOYSIA, OR OTHER APPROVED TYPES OF NATIVE OR ADAPTABLE GRASSES, SUITABLE FOR GROWING IN THE LOCALITY OF THE WORK.

UTILITY NOTES

- THE BUILDING CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATION, SIZE AND SPECIFICATIONS OF ALL ELECTRICAL TRANSFORMER PADS WITH THE LOCAL POWER COMPANY AND PROVIDING SERVICE FROM THE TRANSFORMER TO THE BUILDING.
- CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS AND IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING UTILITIES DURING CONSTRUCTION AT NO EXTRA COST TO THE OWNER.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OR OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL PROVIDE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE BUT NOT LIMITED TO ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
- SANITARY SEWER PIPE SHALL MEET MINIMUM COVER
- SEWER SERVICE LATERALS SHALL BE COORDINATED WITH BUILDING PLANS. ANY DISCREPANCIES SHOULD BE CLARIFIED BEFORE INSTALLATION.
- THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN PAVED AREAS SHALL MATCH FINISH GRADE, AND SHALL HAVE TRAFFIC BEARING LIDS. THE TOP ELEVATION OF ON SITE MANHOLES CONSTRUCTED IN GRASSED AREAS MUST MATCH FINISHED GRADE. ALL OFFSITE MANHOLES TOPS MUST BE SET 24" ABOVE EXISTING GRADE. ALL EXISTING MANHOLES & UTILITY BOXES SHALL BE ADJUSTED AS NECESSARY TO MATCH PROPOSED GRADING.
- ALL WATERLINES SHALL MAINTAIN A MINIMUM OF 3 FEET COVER AND MAXIMUM OF 5 FEET.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF WATER SERVICE WITH WATER DEPARTMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION, PURCHASE AND/OR FEES ASSOCIATED WITH ALL APPARATUS INCLUDING: WATER METERS, BACK FLOW PREVENTERS, POST INDICATOR VALVES, AND ENCLOSURES.
- THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF WATER AND SEWER LINE IS (5') FIVE FEET. THE MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINES IS (24") TWENTY-FOUR INCHES.
- EXISTING UTILITIES LOCATIONS ARE APPROXIMATE AND SHOULD BE VERIFIED FOR LOCATION AND NUMBER BY THE CONTRACTOR.
- ALL ELECTRIC, TELEPHONE AND GAS LINES, INCLUDING SERVICE LINES, ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE APPROPRIATE UTILITY COMPANIES SPECIFICATIONS.
- CONTRACTOR TO COORDINATE INSTALLATION OF ALL UTILITIES BY OTHERS WITH HIS WORK.
- PRIMARY ELECTRIC SERVICE IS PROVIDED BY THE POWER COMPANY. THIS INCLUDES THE TRANSFORMER AND PAD, TRENCHING, BACKFILL AND COMPACTION. CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND FEES ASSOCIATED WITH POWER SERVICE AS WELL AS SECONDARY SERVICE.
- ANY UTILITIES NOT SHOWN THAT REQUIRE RELOCATION OR REMOVAL IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS TO REPORT ALL DISCREPANCIES TO THE ENGINEER IMMEDIATELY UPON DISCOVERY.
- ALL MANHOLES SHALL BE XYPEX LINED, OR APPROVED EQUAL.

| LEGEND | EXISTING | PROPOSED |
|----------------------------------|-------------------------------------|-----------------|
| WATER LINE | — W _x — | — W — |
| FIRELINE | — F _x — | — F — |
| SANITARY SEWER LINE | — SS _x — | — SS — |
| GAS LINE | — G _x — | — G — |
| COMMUNICATION LINE (UNDERGROUND) | — C _x — C _x — | — C — C — |
| POWER (OVERHEAD) | — E _x — | — E — |
| POWER (UNDERGROUND) | — E _x — E _x — | — E — |
| POWERPOLE | ⊙ | ⊙ ^{PP} |
| SANITARY SEWER MANHOLE | ⊙ | ⊙ ^{CO} |
| CLEANOUT | ⊙ | ⊙ |
| GAS VALVE | ⊙ | ⊙ |
| WATER METER | ⊙ | ⊙ |
| DRAINAGE PIPE | — | — |
| STORM MANHOLE/INLET | ⊙ | ⊙ |
| STORM JUNCTION BOX | ⊙ | ⊙ |
| SIGN | ⊙ | ⊙ |
| LIGHT POLE | ⊙ ^{LP} | ⊙ ^{LP} |
| WATER VALVE | ⊙ | ⊙ |
| FIRE HYDRANT | ⊙ | ⊙ |
| FIRE DEPARTMENT CONNECTION | ⊙ | ⊙ |
| GAS METER | ⊙ | ⊙ |
| AIR CONDITIONING UNIT | ⊙ | ⊙ |
| CONTOUR - MAJOR | — 100 — | — 100 — |
| CONTOUR - MINOR | — 99 — | — 99 — |

SHEET TITLE : GENERAL NOTES

MCKEE JOB # : 23-251

DRAWN BY : SGH

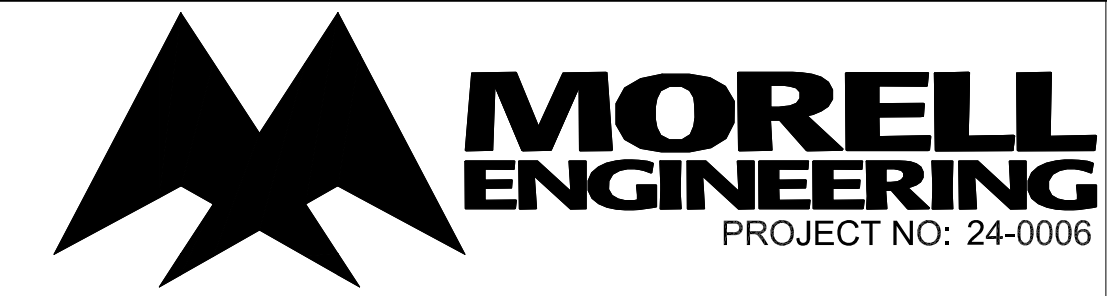
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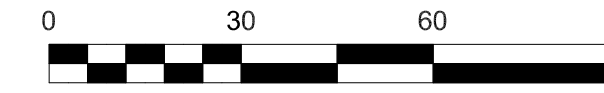
SHEET NO. : **C-0.1**



NEW ADMIN BUILDING
AT
RED BAY HIGH SCHOOL
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FRANKLIN COUNTY BOARD OF EDUCATION

MCKEE and ASSOCIATES
 ARCHITECTS, INC.
 631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933





| LEGEND | EXISTING | PROPOSED |
|----------------------------------|-----------------|----------|
| WATER LINE | W _x | W |
| FIRELINE | F _x | F |
| SANITARY SEWER LINE | SS _x | SS |
| GAS LINE | G _x | G |
| COMMUNICATION LINE (UNDERGROUND) | C _x | C |
| POWER (OVERHEAD) | E _x | E |
| POWER (UNDERGROUND) | PP | PP |
| POWERPOLE | LP | LP |
| SANITARY SEWER MANHOLE | SMH | SMH |
| CLEANOUT | CO | CO |
| GAS VALVE | GV | GV |
| WATER METER | WM | WM |
| DRAINAGE PIPE | DP | DP |
| STORM MANHOLE/INLET | SMI | SMI |
| STORM JUNCTION BOX | SJB | SJB |
| SIGN | SI | SI |
| LIGHT POLE | LP | LP |
| WATER VALVE | WV | WV |
| FIRE HYDRANT | FH | FH |
| FIRE DEPARTMENT CONNECTION | FDC | FDC |
| GAS METER | GM | GM |
| AIR CONDITIONING UNIT | ACU | ACU |
| CONTOUR - MAJOR | -100 | 100 |
| CONTOUR - MINOR | -99 | 99 |



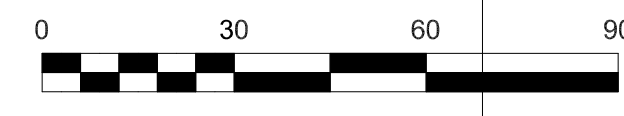
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SHEET TITLE: EXISTING CONDITIONS
MCKEE JOB #: 23-251
DRAWN BY: SGH
DATE: 05.18.2024
REVISED DATE:
REVISED DATE:
REVISED DATE:

SHEET NO.: **C-1.0**



| LEGEND | EXISTING | PROPOSED |
|----------------------------------|-------------------|----------|
| WATER LINE | W _x | W |
| FIRELINE | F _x | F |
| SANITARY SEWER LINE | SS _x | SS |
| GAS LINE | G _x | G |
| COMMUNICATION LINE (UNDERGROUND) | C _x | C |
| POWER (OVERHEAD) | E _x | E |
| POWER (UNDERGROUND) | E _x PP | E |
| POWERPOLE | PP | PP |
| SANITARY SEWER MANHOLE | SMH | SMH |
| CLEANOUT | CO | CO |
| GAS VALVE | GV | GV |
| WATER METER | WM | WM |
| DRAINAGE PIPE | DP | DP |
| STORM MANHOLE/INLET | SMH | SMH |
| STORM JUNCTION BOX | SJB | SJB |
| SIGN | S | S |
| LIGHT POLE | LP | LP |
| WATER VALVE | WV | WV |
| FIRE HYDRANT | FH | FH |
| FIRE DEPARTMENT CONNECTION | FD | FD |
| GAS METER | GM | GM |
| AIR CONDITIONING UNIT | ACU | ACU |
| CONTOUR - MAJOR | -100 | 100 |
| CONTOUR - MINOR | -99 | 99 |

DEMOLITION LEGEND:

| | |
|--|----------------------------------|
| | DEMOLITION AND REMOVAL |
| | UTILITY, STORM AND FENCE REMOVAL |
| | TEMPORARY CONSTRUCTION FENCING |

CONSTRUCTION PERIMETER FENCING:

IN ACCORDANCE WITH OSHA REQUIREMENTS AND/OR STATE AND LOCAL REGULATIONS, PERIMETER FENCING FOR CONSTRUCTION AREAS AND THE LAYDOWN YARD.

DEMOLITION PLAN NOTES

1. ALL EXISTING CONCRETE WALKS, BUILDING STRUCTURES, ALONG WITH THEIR FOUNDATIONS, MARKED ON DEMOLITION PLAN OR ARCHITECTURAL PLAN, FENCES, UTILITIES, AND OTHER MISCELLANEOUS MATERIALS IN THE WAY OF PROPOSED JULIAN NEWMAN ELEMENTARY SCHOOL ADDITIONS MUST BE REMOVED FROM THE PROJECT SITE.
2. CONTRACTOR MUST VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
3. EXISTING UTILITY SERVICES ARE TO BE CAPPED AND REMOVED AT THE RIGHT OF WAY.
4. CONTRACTOR MUST COORDINATE UTILITY DEMOLITION AND RELOCATION WITH LOCAL UTILITY PROVIDERS.
5. ALL AREAS DISTURBED BY CONSTRUCTION MUST BE COVERED WITH FILL DIRT, GRADED TO CREATE POSITIVE DRAINAGE, AND SEEDED.
6. PRIOR TO DEMOLITION OF EXISTING SANITARY LINES AND MANHOLES, THE REQUIRED SANITARY LINES AND MANHOLES MUST BE INSTALLED AS TO NOT DISRUPT SERVICES.
7. ALL ITEMS CALLED FROM REMOVAL SHALL BE REMOVED TO FULL DEPTH INCLUDING ALL FOOTINGS, FOUNDATIONS, ROOTBALLS, AND OTHER APPURTENANCES, EXCEPT AS SPECIALLY NOTED OTHERWISE.

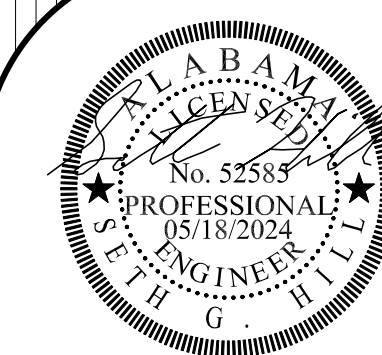
**NEW ADMIN BUILDING
AT
RED BAY HIGH SCHOOL**

FOR THE

FRANKLIN COUNTY BOARD OF EDUCATION

MCKEE and ASSOCIATES
ARCHITECTS, INC.

631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE: DEMOLITION PLAN

MCKEE JOB #: 23-251

DRAWN BY: SGH

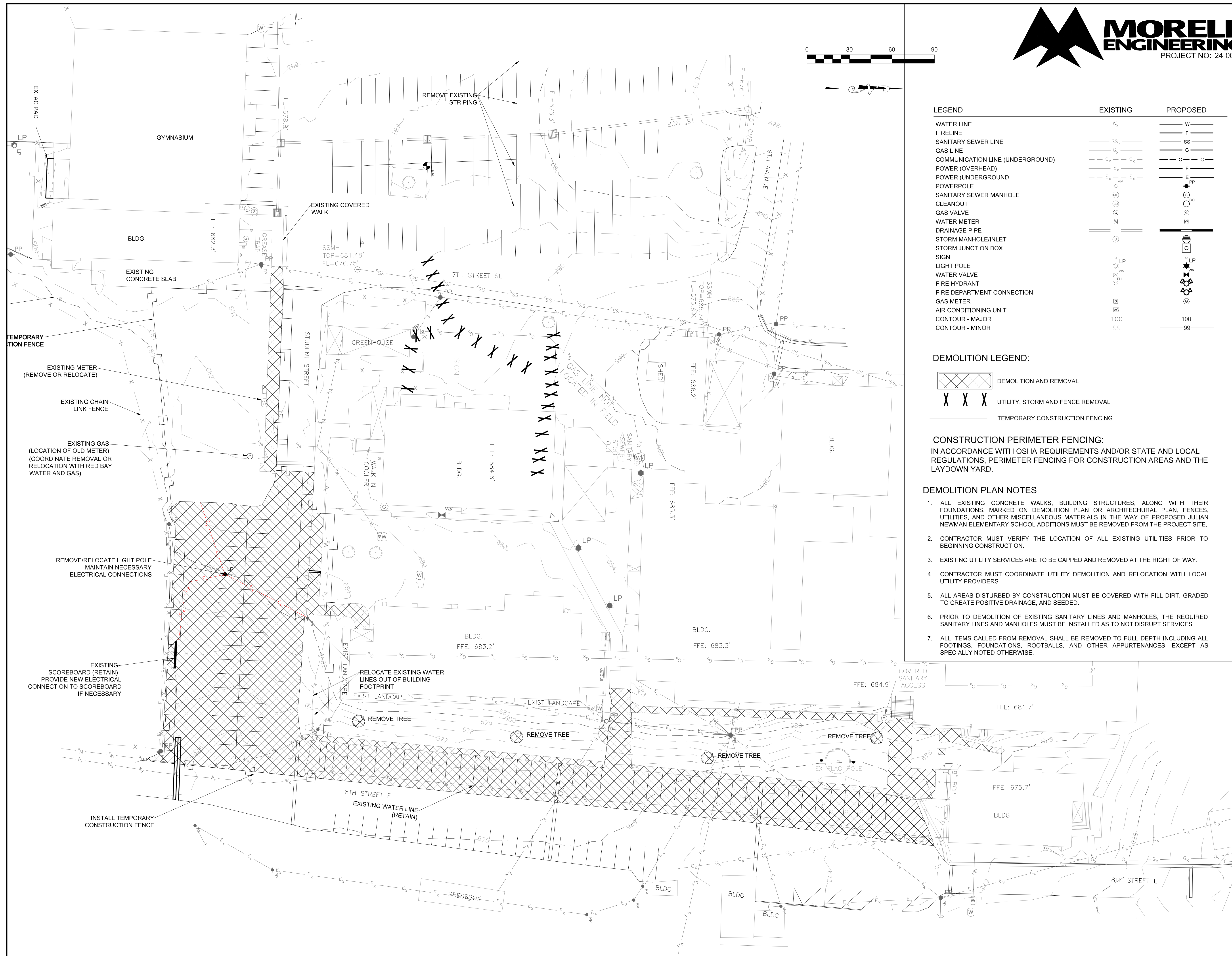
DATE: 05.18.2024

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO.: **C-1.1**





| LEGEND | EXISTING | PROPOSED |
|----------------------------------|-----------------|----------|
| WATER LINE | W _x | W |
| FIRELINE | F _x | F |
| SANITARY SEWER LINE | SS _x | SS |
| GAS LINE | G _x | G |
| COMMUNICATION LINE (UNDERGROUND) | C _x | C |
| POWER (OVERHEAD) | E _x | E |
| POWER (UNDERGROUND) | PP | PP |
| POWERPOLE | PP | PP |
| SANITARY SEWER MANHOLE | SMH | SMH |
| CLEANOUT | CO | CO |
| GAS VALVE | GV | GV |
| WATER METER | WM | WM |
| DRAINAGE PIPE | DP | DP |
| STORM MANHOLE/INLET | SMH | SMH |
| STORM JUNCTION BOX | SJB | SJB |
| SIGN | S | S |
| LIGHT POLE | LP | LP |
| WATER VALVE | WV | WV |
| FIRE HYDRANT | FH | FH |
| FIRE DEPARTMENT CONNECTION | FD | FD |
| GAS METER | GM | GM |
| AIR CONDITIONING UNIT | ACU | ACU |
| CONTOUR - MAJOR | -100 | -100 |
| CONTOUR - MINOR | -99 | -99 |

REQ'D ASPHALT PAVEMENT (SEE DETAIL)

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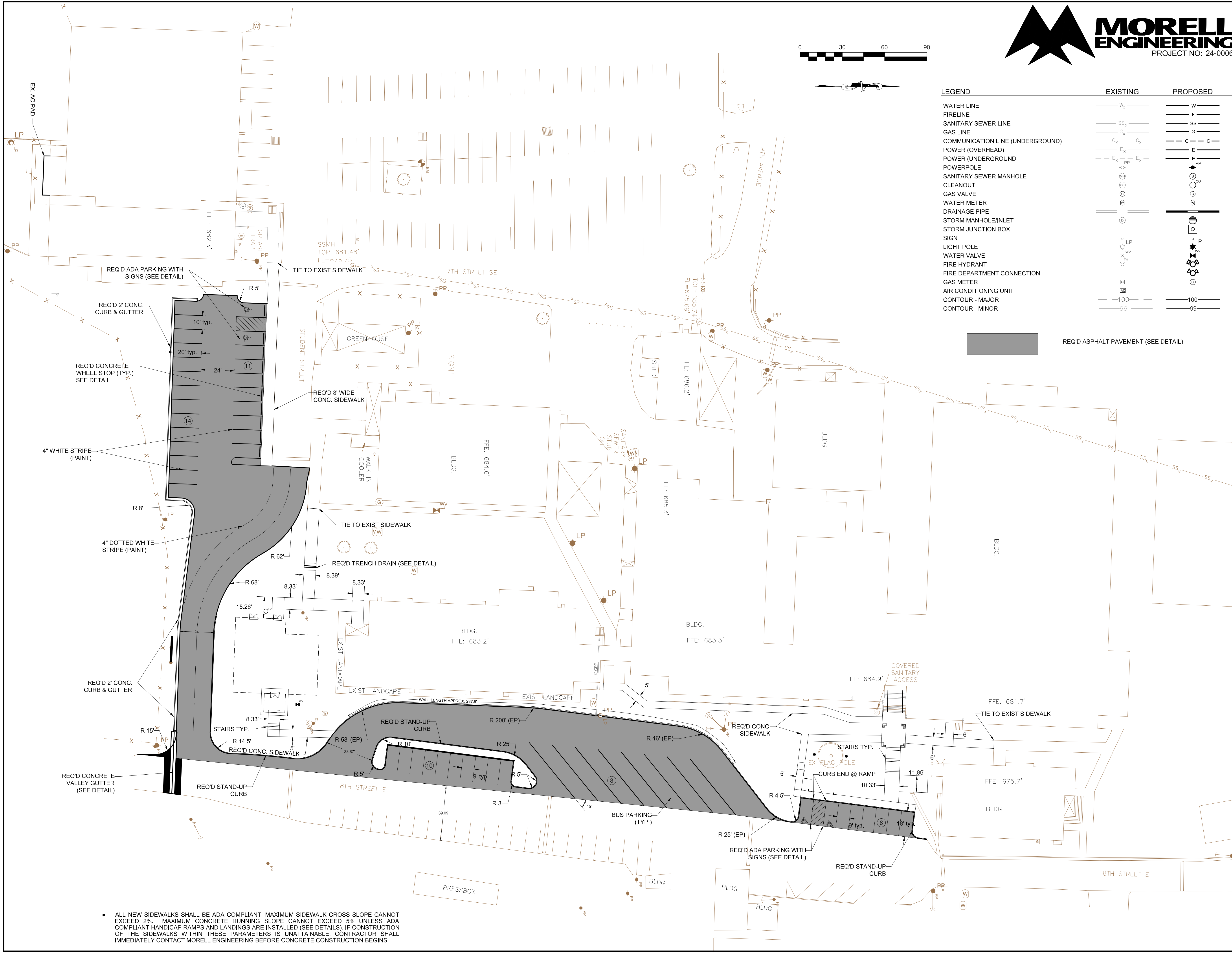
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SHEET TITLE: SITE PLAN
MCKEE JOB #: 23-251
DRAWN BY: SGH
DATE: 05.18.2024
REVISED DATE:
REVISED DATE:
REVISED DATE:

SHEET NO.: **C-2.0**

• ALL NEW SIDEWALKS SHALL BE ADA COMPLIANT. MAXIMUM SIDEWALK CROSS SLOPE CANNOT EXCEED 2%. MAXIMUM CONCRETE RUNNING SLOPE CANNOT EXCEED 5% UNLESS ADA COMPLIANT HANDICAP RAMPS AND LANDINGS ARE INSTALLED (SEE DETAILS). IF CONSTRUCTION OF THE SIDEWALKS WITHIN THESE PARAMETERS IS UNATTAINABLE, CONTRACTOR SHALL IMMEDIATELY CONTACT MORELL ENGINEERING BEFORE CONCRETE CONSTRUCTION BEGINS.





| LEGEND | EXISTING | PROPOSED |
|----------------------------------|-----------------|----------------|
| WATER LINE | W _x | W |
| FIRELINE | F _x | F |
| SANITARY SEWER LINE | SS _x | SS |
| GAS LINE | G _x | G |
| COMMUNICATION LINE (UNDERGROUND) | C _x | C |
| POWER (OVERHEAD) | E _x | E |
| POWER (UNDERGROUND) | E _x | E _u |
| POWERPOLE | PP | PP |
| SANITARY SEWER MANHOLE | SMH | SMH |
| CLEANOUT | CO | CO |
| GAS VALVE | GV | GV |
| WATER METER | WM | WM |
| DRAINAGE PIPE | DP | DP |
| STORM MANHOLE/INLET | SMI | SMI |
| STORM JUNCTION BOX | SJB | SJB |
| SIGN | SP | SP |
| LIGHT POLE | LP | LP |
| WATER VALVE | WV | WV |
| FIRE HYDRANT | FH | FH |
| FIRE DEPARTMENT CONNECTION | FD | FD |
| GAS METER | GM | GM |
| AIR CONDITIONING UNIT | ACU | ACU |
| CONTOUR - MAJOR | -100- | -100- |
| CONTOUR - MINOR | -99- | -99- |

- ALL NEW SIDEWALKS SHALL BE ADA COMPLIANT. MAXIMUM SIDEWALK CROSS SLOPE CANNOT EXCEED 2%. MAXIMUM CONCRETE RUNNING SLOPE CANNOT EXCEED 5% UNLESS ADA COMPLIANT HANDICAP RAMPS AND LANDINGS ARE INSTALLED (SEE DETAILS). IF CONSTRUCTION OF THE SIDEWALKS WITHIN THESE PARAMETERS IS UNATTAINABLE, CONTRACTOR SHALL IMMEDIATELY CONTACT MORELL ENGINEERING BEFORE CONCRETE CONSTRUCTION BEGINS.

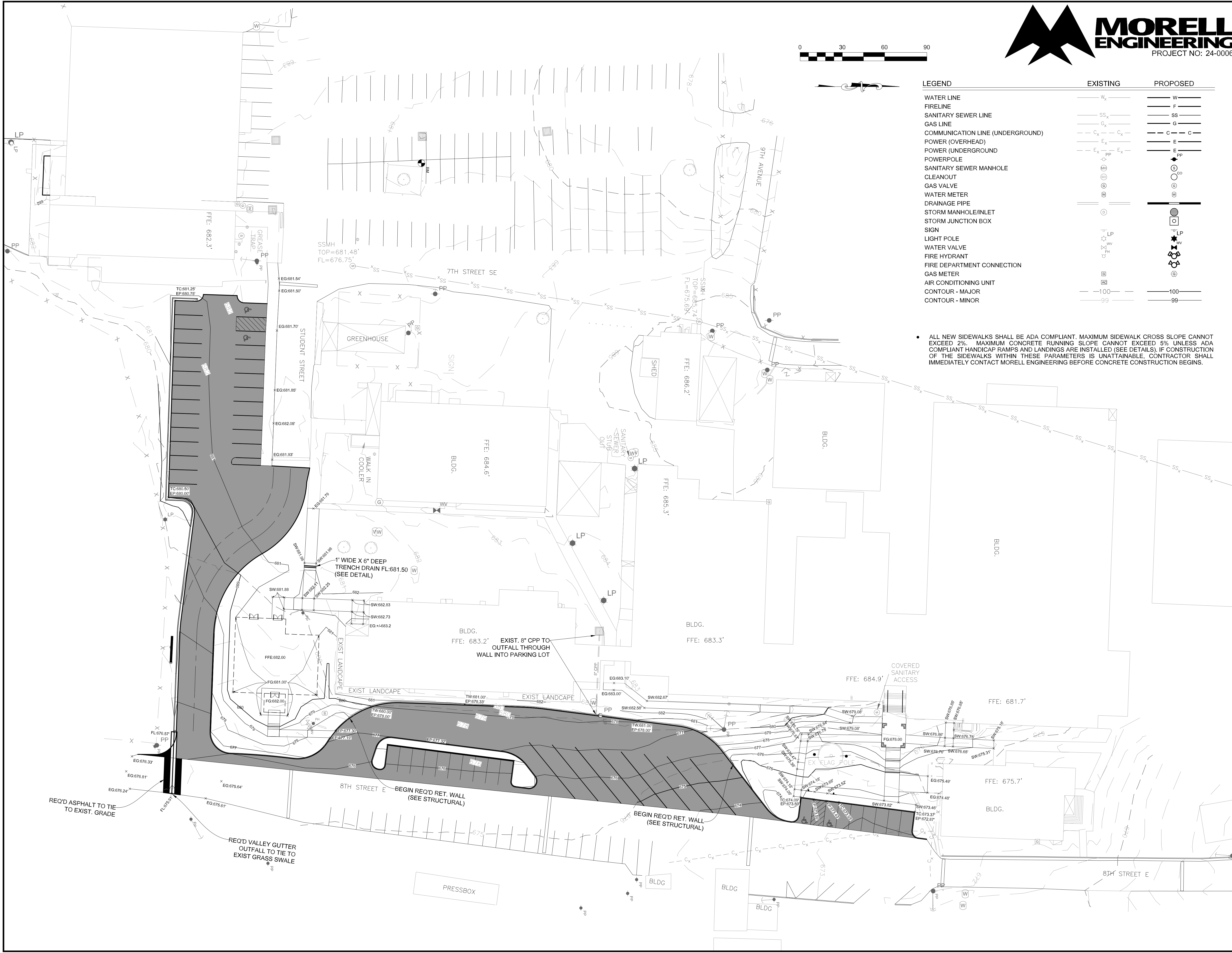
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SHEET TITLE: GRADING & DRAINAGE PLAN
MCKEE JOB #: 23-251
DRAWN BY: SGH
DATE: 05.18.2024
REVISED DATE:
REVISED DATE:
REVISED DATE:

SHEET NO.: **C-3.0**

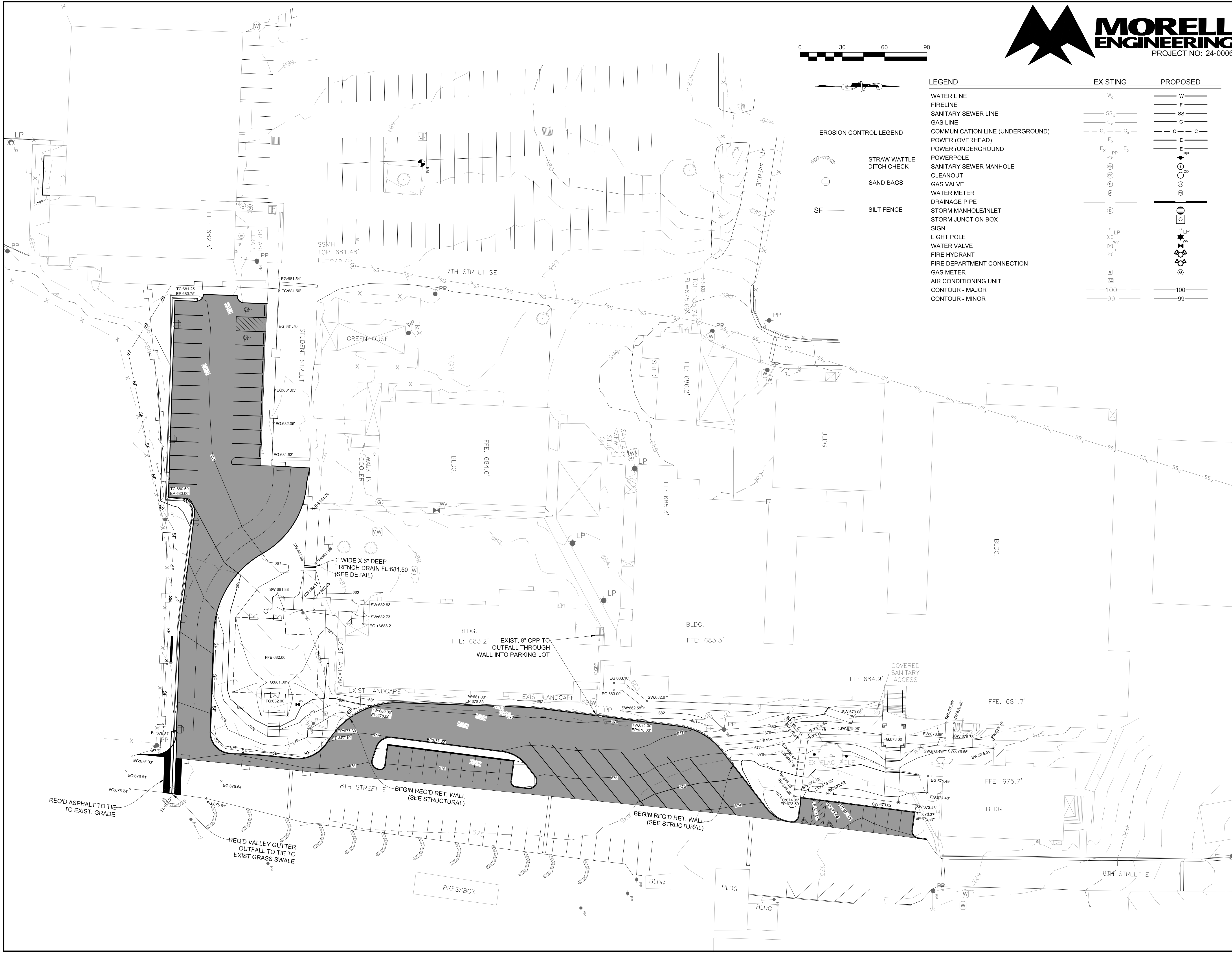




| LEGEND | | EXISTING | PROPOSED |
|----------|----------------------------------|-----------|----------|
| — W — | WATER LINE | — Wx — | — W — |
| — F — | FIRELINE | — Fx — | — F — |
| — SS — | SANITARY SEWER LINE | — SSx — | — SS — |
| — G — | GAS LINE | — Gx — | — G — |
| — C — | COMMUNICATION LINE (UNDERGROUND) | — Cx — | — C — |
| — P — | POWER (OVERHEAD) | — Px — | — P — |
| — E — | POWER (UNDERGROUND) | — Ex — | — E — |
| — PP — | POWERPOLE | — PPx — | — PP — |
| — SSMH — | SANITARY SEWER MANHOLE | — SSMHx — | — SSMH — |
| — CO — | CLEANOUT | — COx — | — CO — |
| — GV — | GAS VALVE | — GVx — | — GV — |
| — WM — | WATER METER | — WMx — | — WM — |
| — DP — | DRAINAGE PIPE | — DPx — | — DP — |
| — SMH — | STORM MANHOLE/INLET | — SMHx — | — SMH — |
| — SJ — | STORM JUNCTION BOX | — SJx — | — SJ — |
| — S — | SIGN | — Sx — | — S — |
| — LP — | LIGHT POLE | — LPx — | — LP — |
| — WV — | WATER VALVE | — WVx — | — WV — |
| — FH — | FIRE HYDRANT | — FHx — | — FH — |
| — FDC — | FIRE DEPARTMENT CONNECTION | — FDCx — | — FDC — |
| — GM — | GAS METER | — GMx — | — GM — |
| — ACU — | AIR CONDITIONING UNIT | — ACUx — | — ACU — |
| — 100 — | CONTOUR - MAJOR | — 100 — | — 100 — |
| — 99 — | CONTOUR - MINOR | — 99 — | — 99 — |

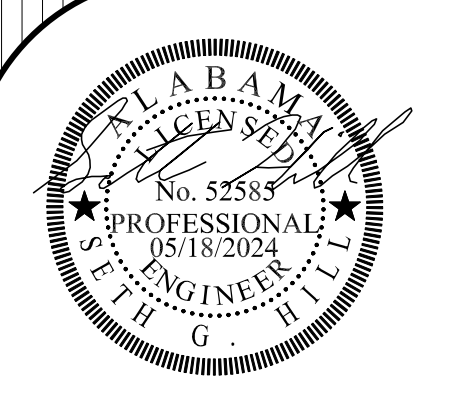
EROSION CONTROL LEGEND

- SW — STRAW WATTLE
- DC — DITCH CHECK
- SB — SAND BAGS
- SF — SILT FENCE



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SHEET TITLE: EROSION & SEDIMENT CONTROL PLAN
MCKEE JOB #: 23-251
DRAWN BY: SGH
DATE: 05.18.2024
REVISED DATE:
REVISED DATE:
REVISED DATE:

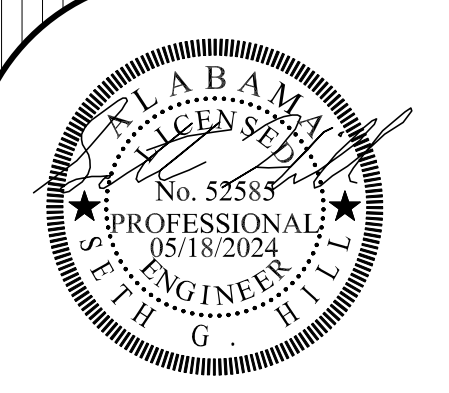
SHEET NO.: **C-4.0**



| LEGEND | EXISTING | PROPOSED |
|----------------------------------|-----------------|----------|
| WATER LINE | W _x | W |
| FIRELINE | F _x | F |
| SANITARY SEWER LINE | SS _x | SS |
| GAS LINE | G _x | G |
| COMMUNICATION LINE (UNDERGROUND) | C _x | C |
| POWER (OVERHEAD) | E _x | E |
| POWER (UNDERGROUND) | E _x | E |
| POWERPOLE | PP | PP |
| SANITARY SEWER MANHOLE | SSMH | SSMH |
| CLEANOUT | CO | CO |
| GAS VALVE | GV | GV |
| WATER METER | WM | WM |
| DRAINAGE PIPE | DP | DP |
| STORM MANHOLE/INLET | SMH | SMH |
| STORM JUNCTION BOX | SJB | SJB |
| SIGN | S | S |
| LIGHT POLE | LP | LP |
| WATER VALVE | WV | WV |
| FIRE HYDRANT | FH | FH |
| FIRE DEPARTMENT CONNECTION | FD | FD |
| GAS METER | GM | GM |
| AIR CONDITIONING UNIT | ACU | ACU |
| CONTOUR - MAJOR | 100 | 100 |
| CONTOUR - MINOR | 99 | 99 |

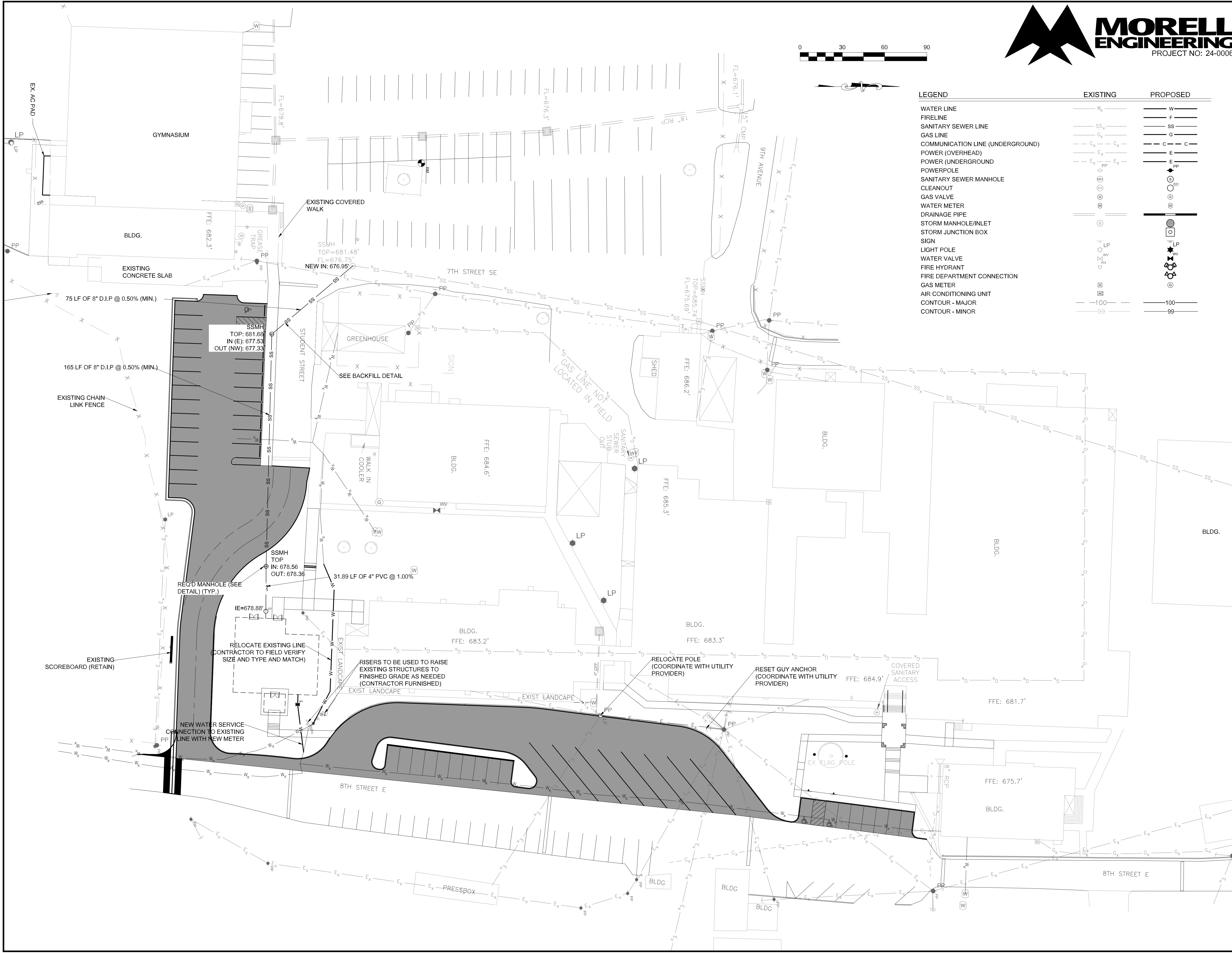
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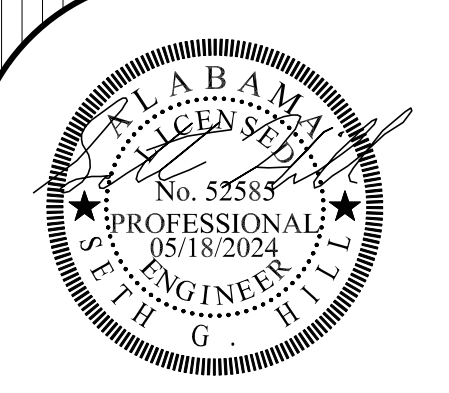
SHEET TITLE: UTILITY PLAN
MCKEE JOB #: 23-251
DRAWN BY: SGH
DATE: 05.18.2024
REVISED DATE:
REVISED DATE:
REVISED DATE:

SHEET NO.: **C-5.0**



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SHEET TITLE : STANDARD DETAILS

MCKEE JOB # : 23-251

DRAWN BY : SGH

DATE : 05.18.2024

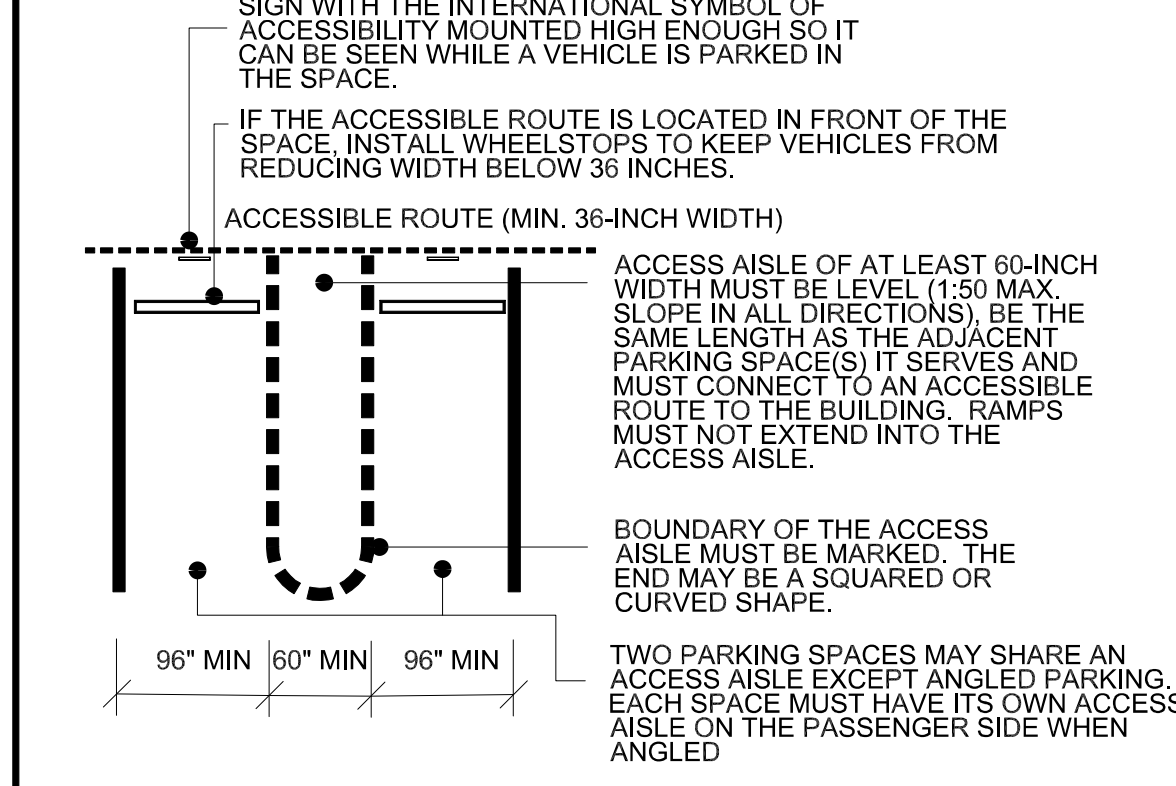
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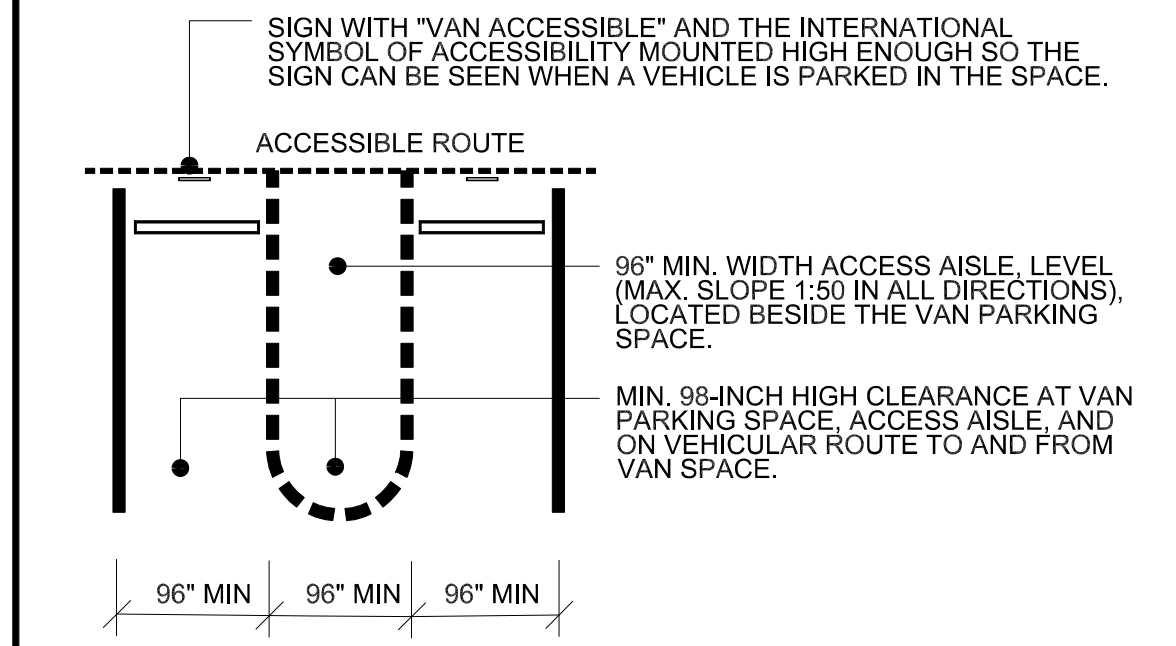
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SHEET NO. : **C-6.0**

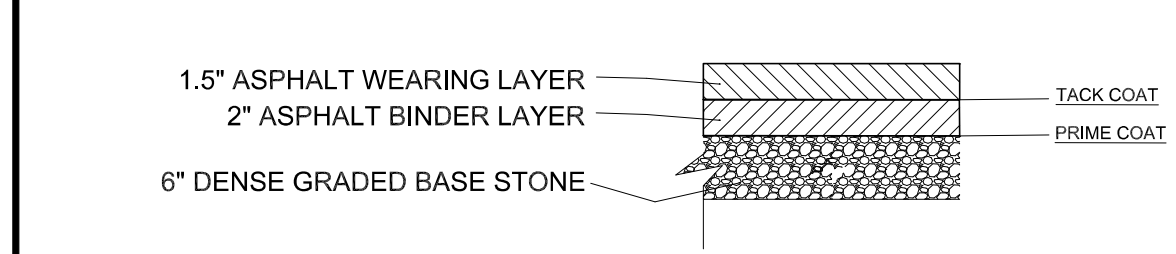
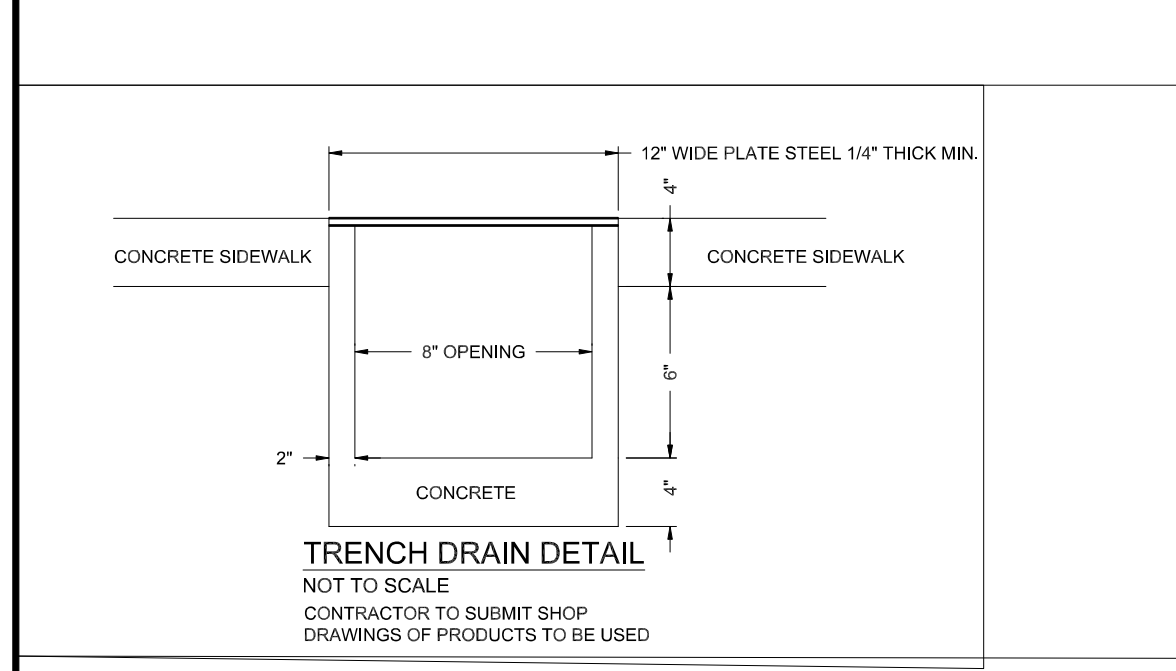
FEATURES OF ACCESSIBLE PARKING SPACES FOR CARS



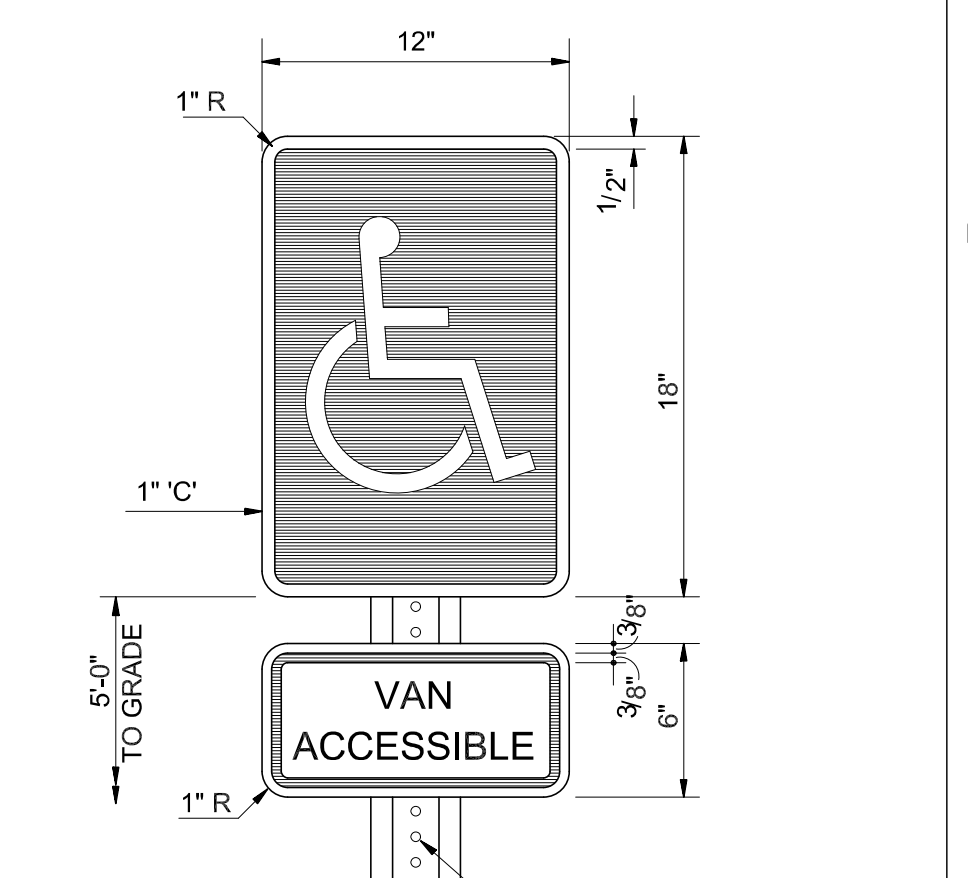
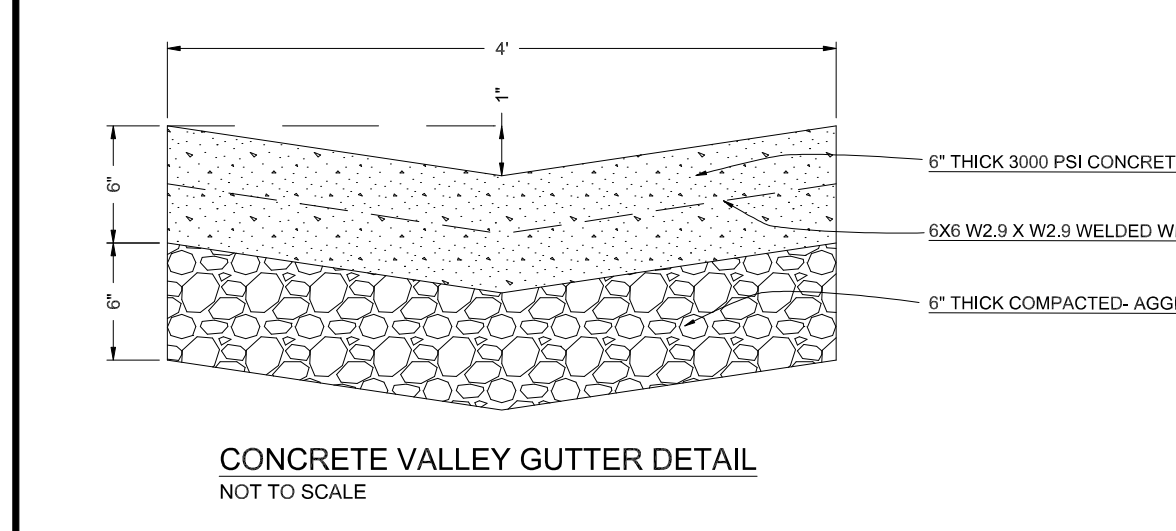
THREE ADDITIONAL FEATURES FOR VAN-ACCESSIBLE PARKING SPACES



ADA PARKING STRIPING & MARKING DETAIL
NOT TO SCALE



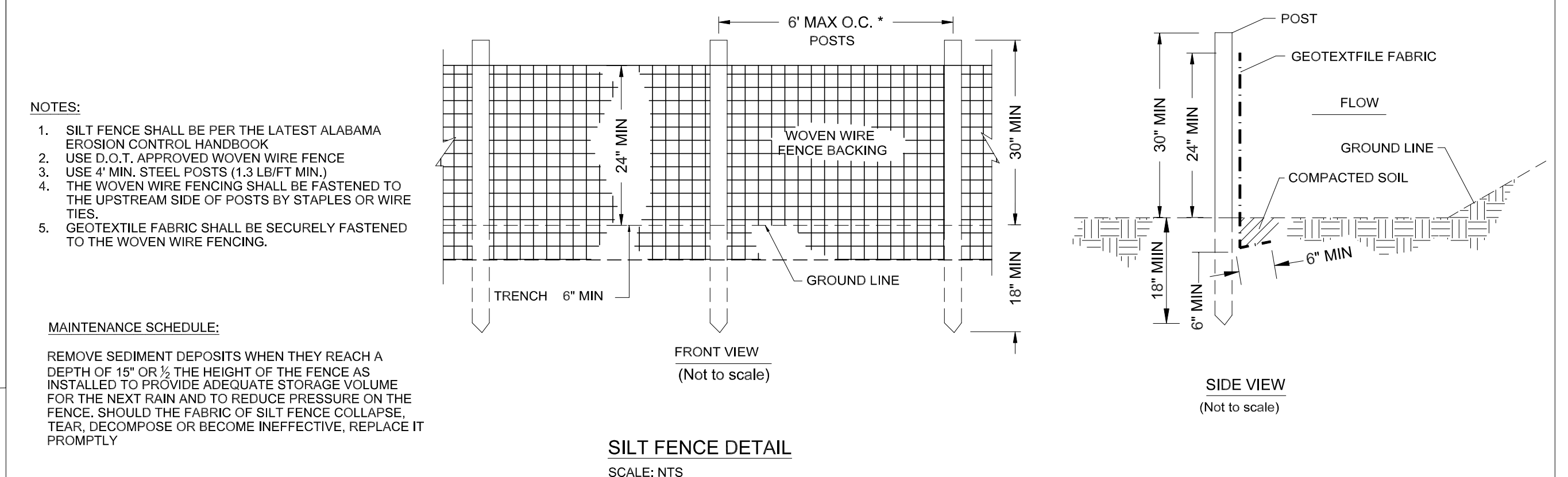
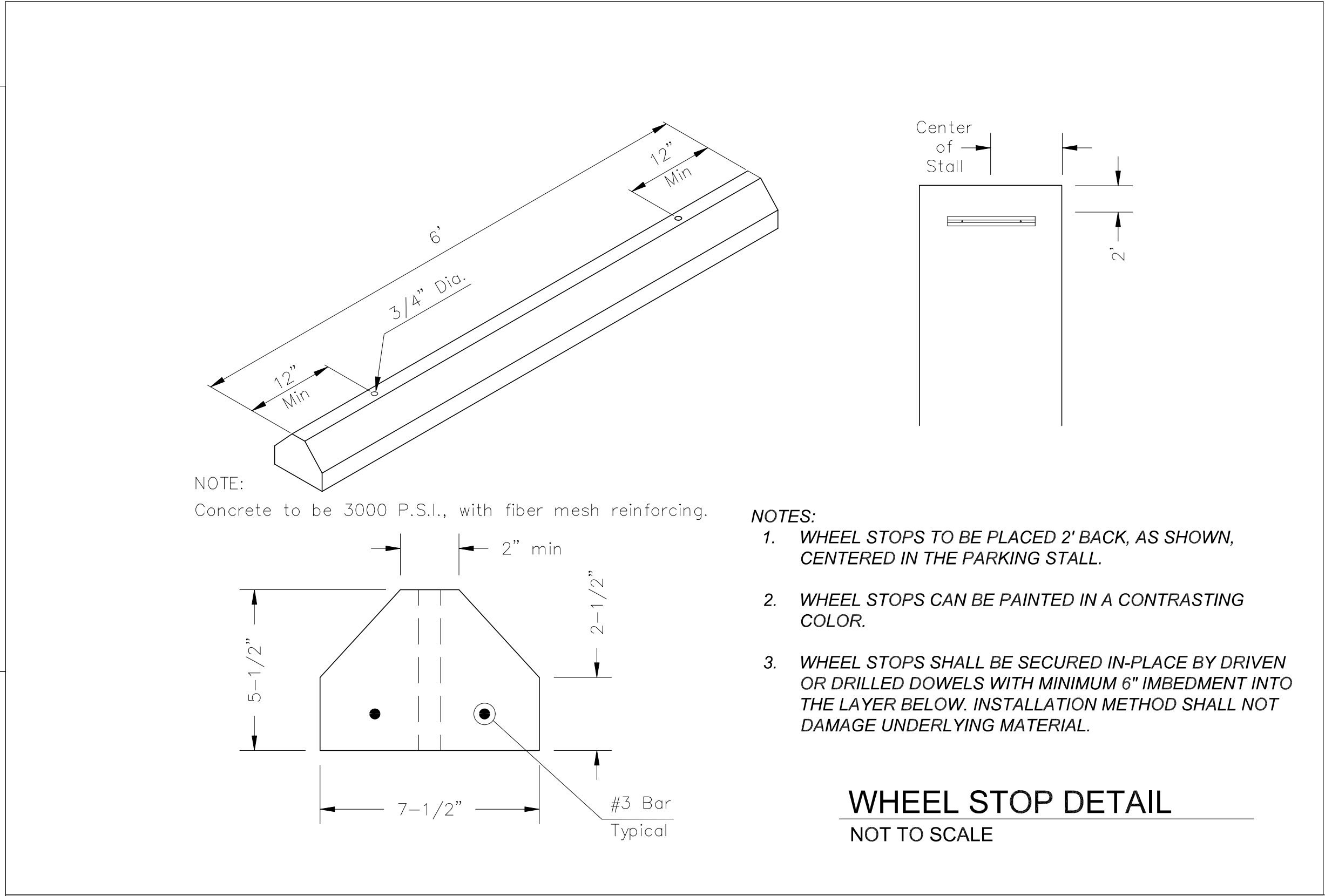
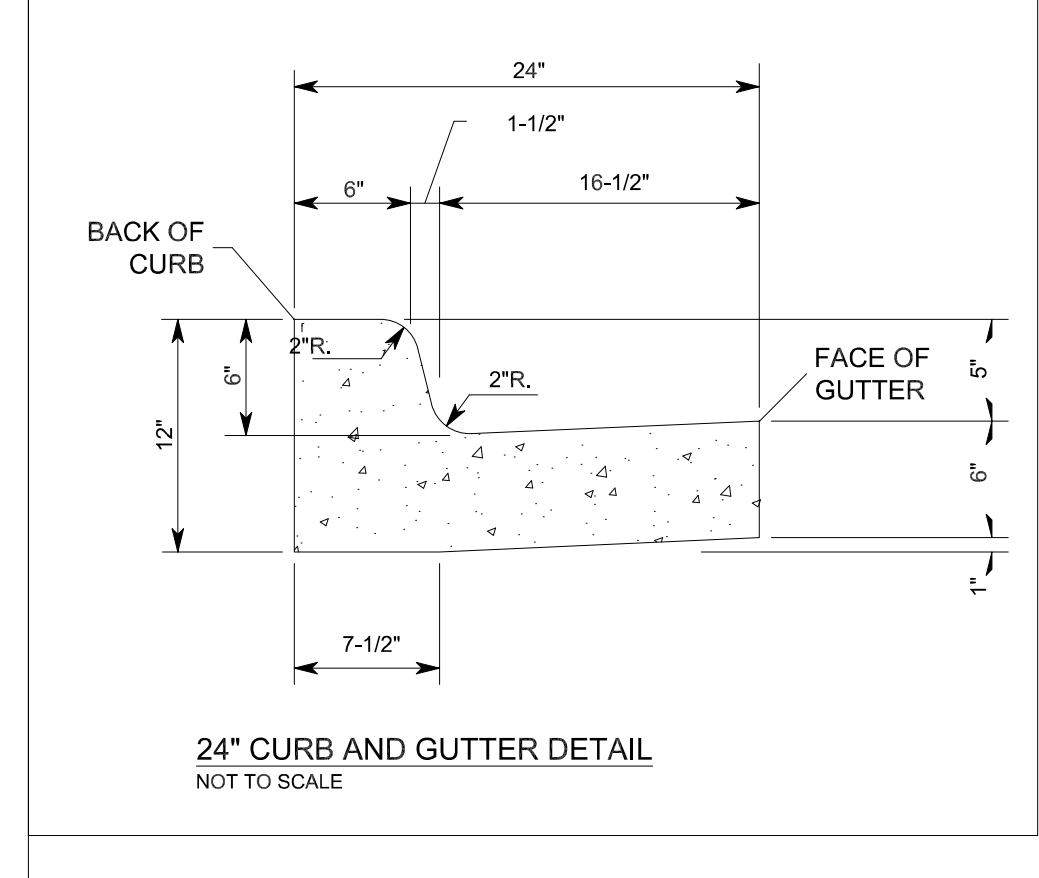
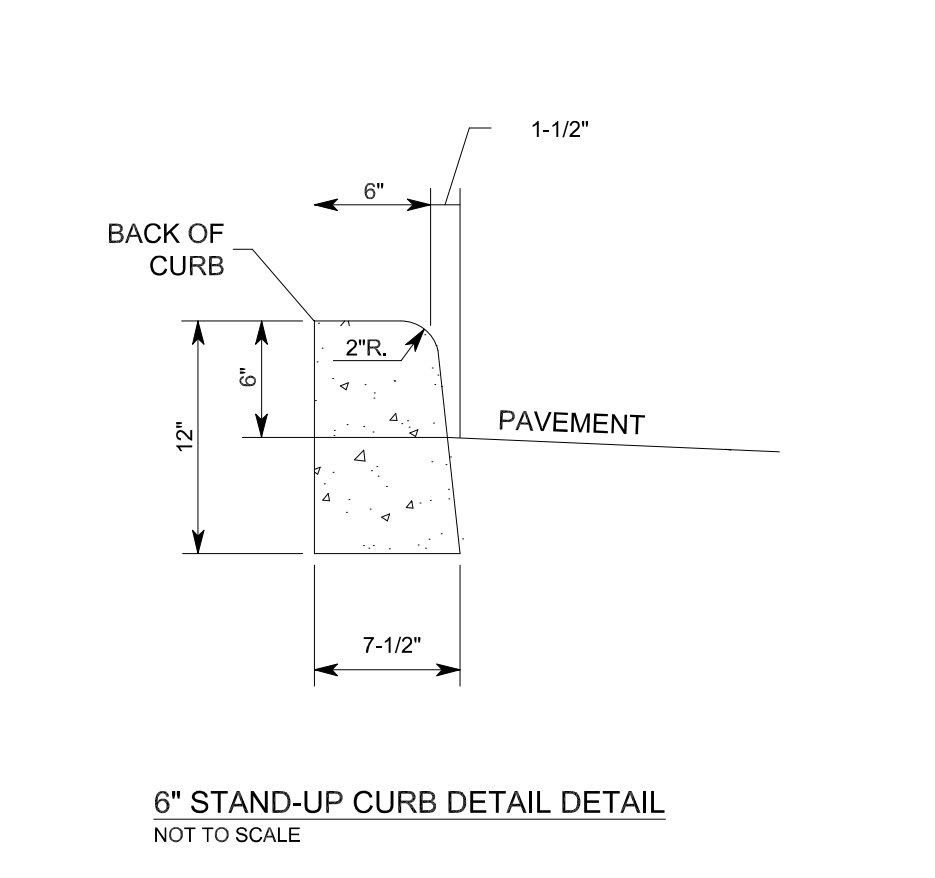
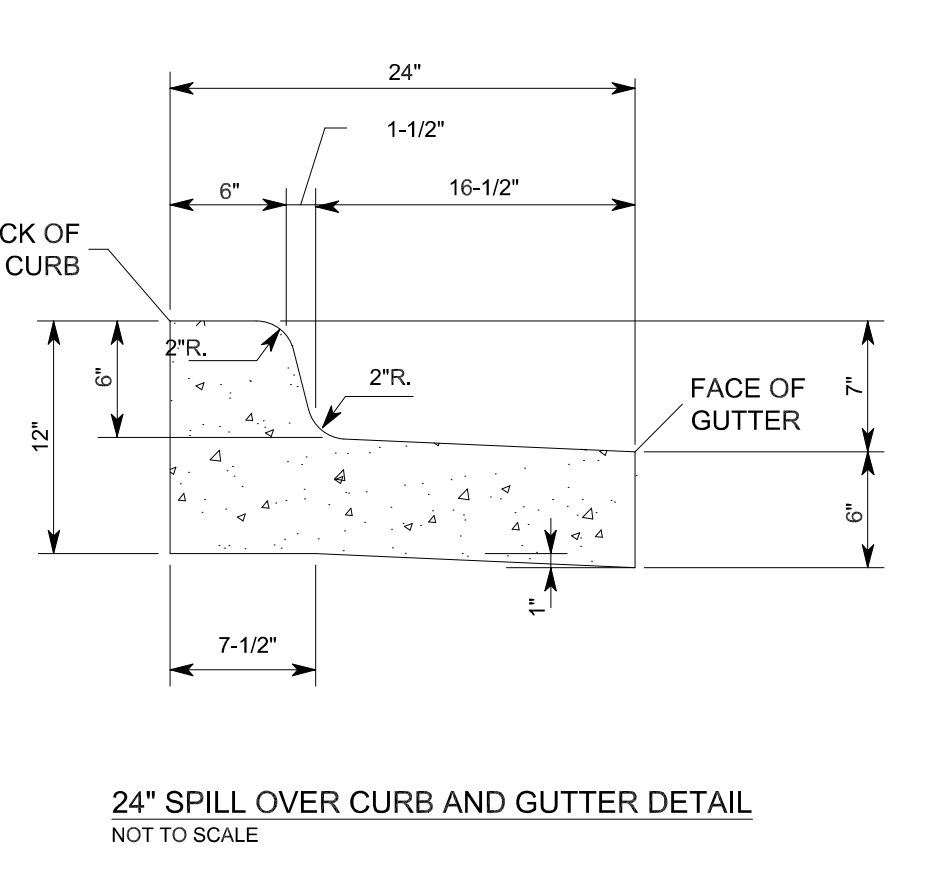
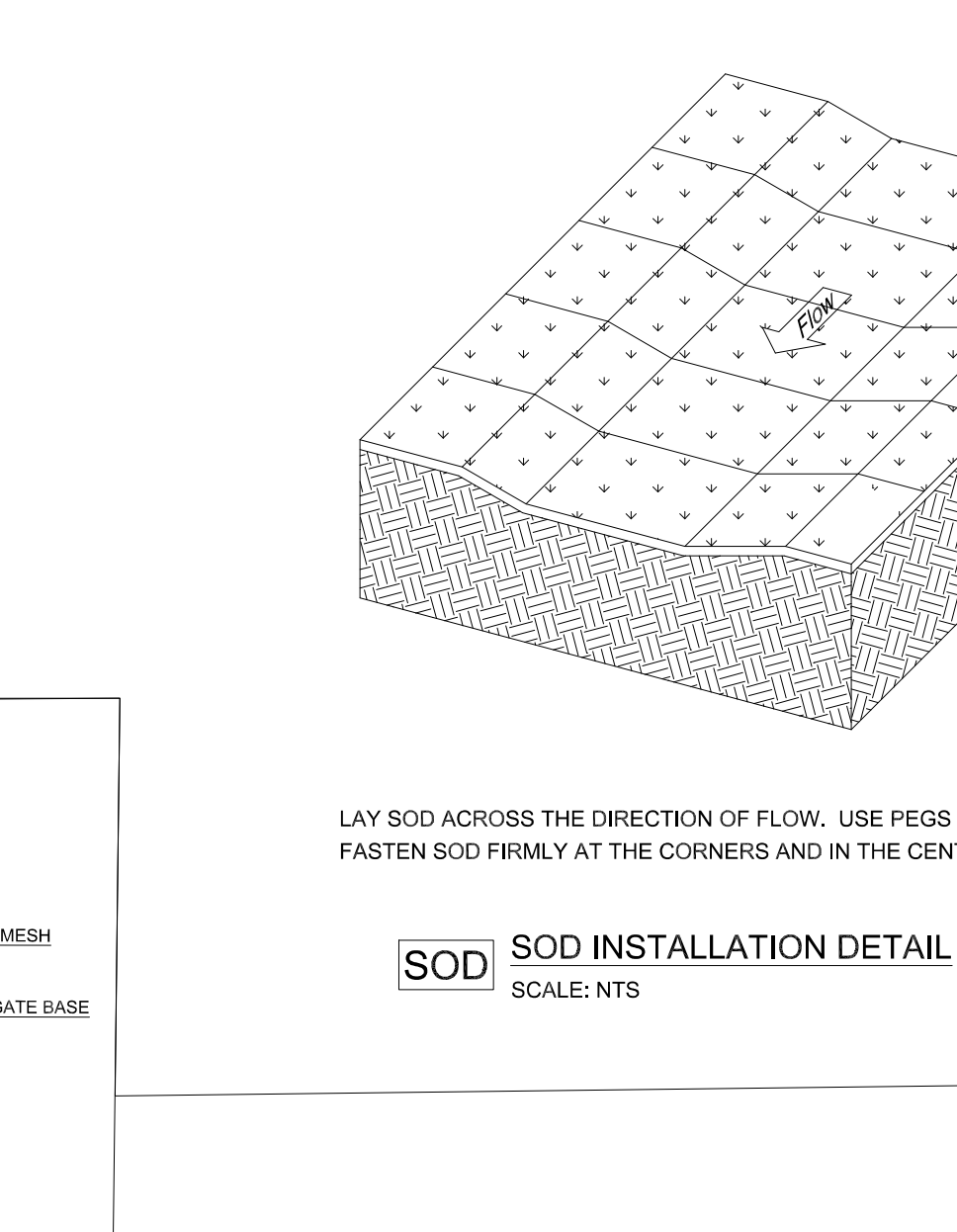
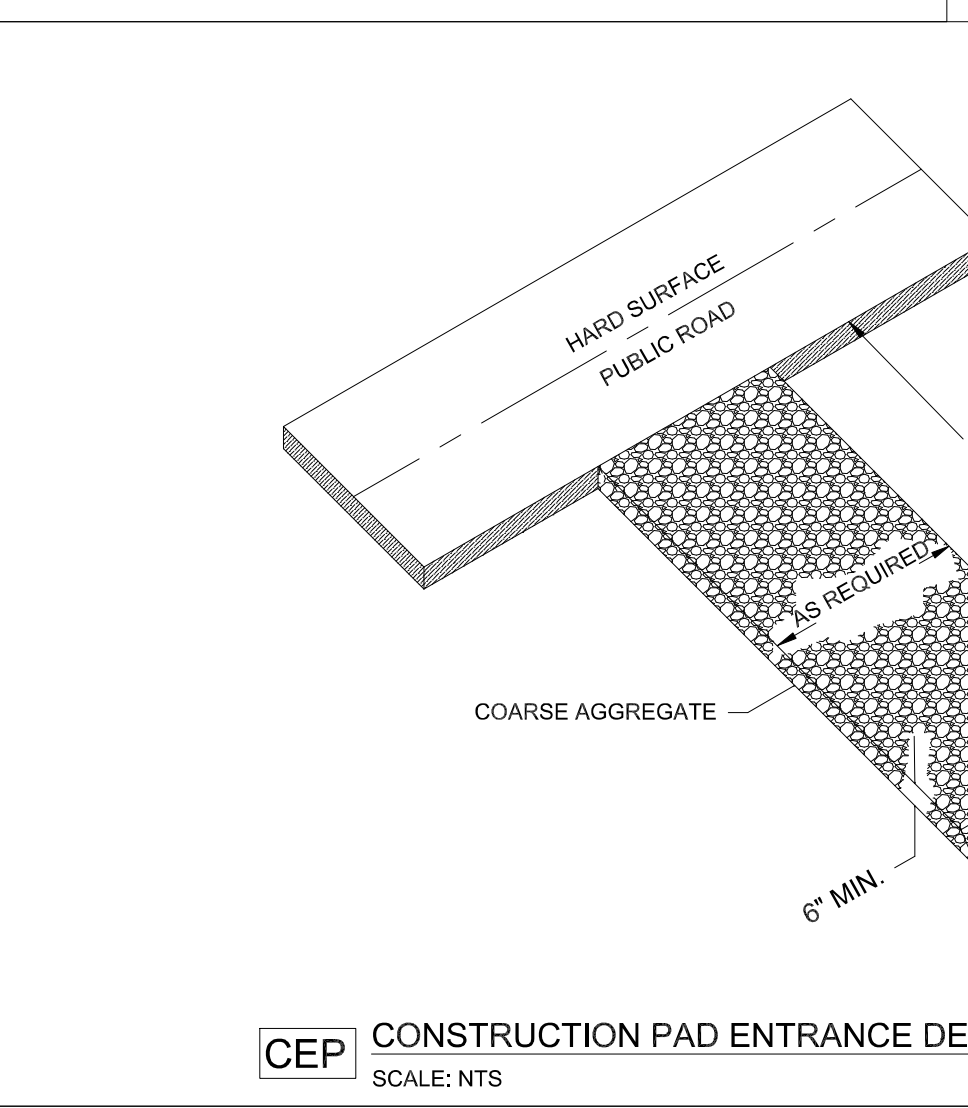
PAVEMENT MATERIALS: PER ALDOT 2018 CONSTRUCTION SPECS.

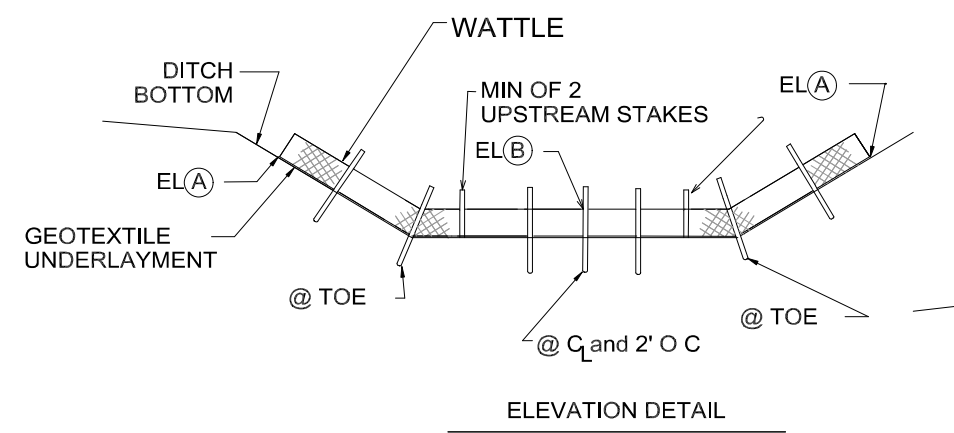


"U" CHANNEL POST (GALVANIZED)

NOTE: MOUNT EACH SIGN WITH 2 1/4" GALV. STL. BOLTS, TO 3/2" (4LB/FT) "U" CHANNEL SET 1'-6" MIN. BELOW FINISH GRADE & ENCASED IN 6" Ø CONCRETE FILLED HOLE. SHALL BE PLACED AS NOT TO BE OBTURED BY A VEHICLE PARKED IN THE SPACE

CEP CONSTRUCTION PAD ENTRANCE DETAIL
SCALE: NTS

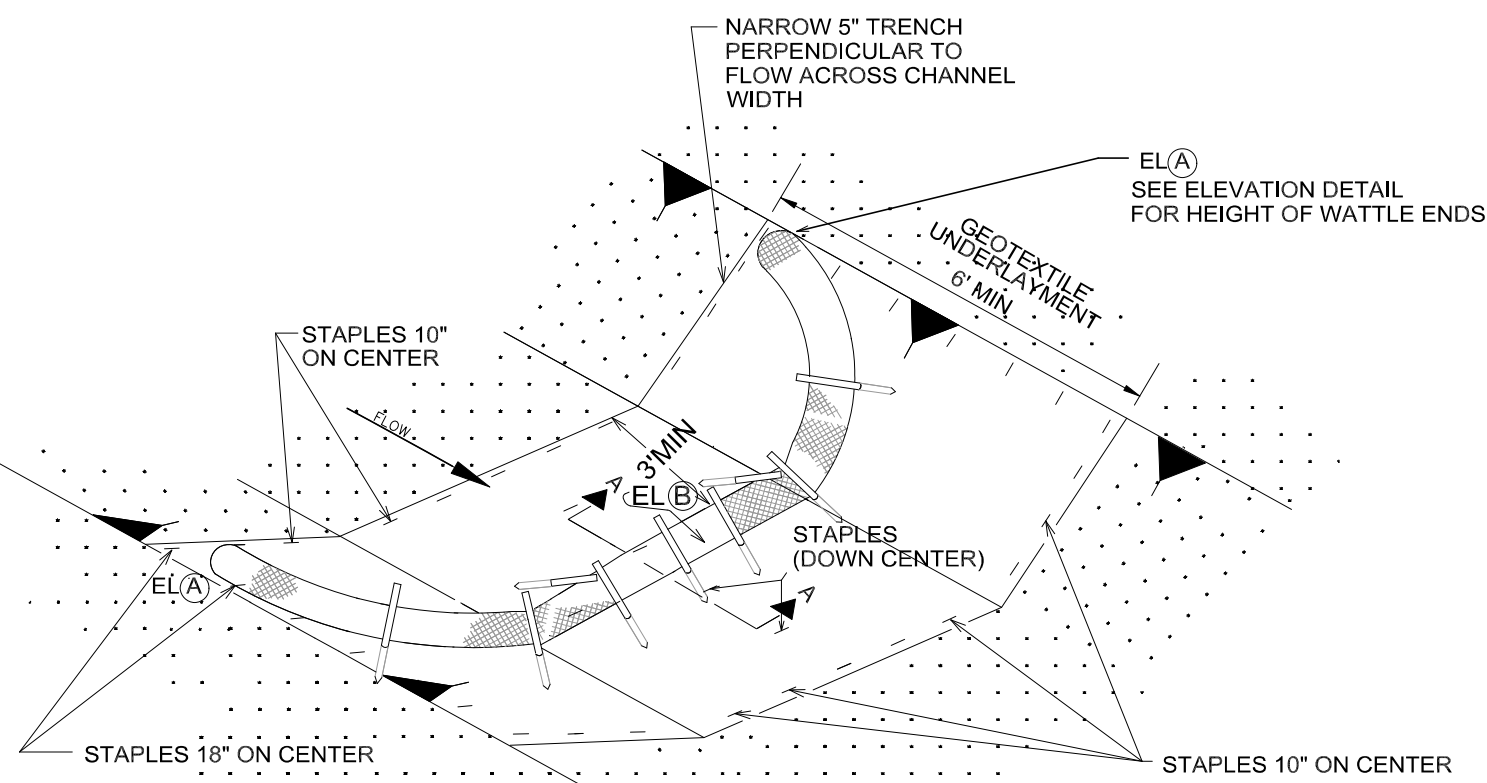
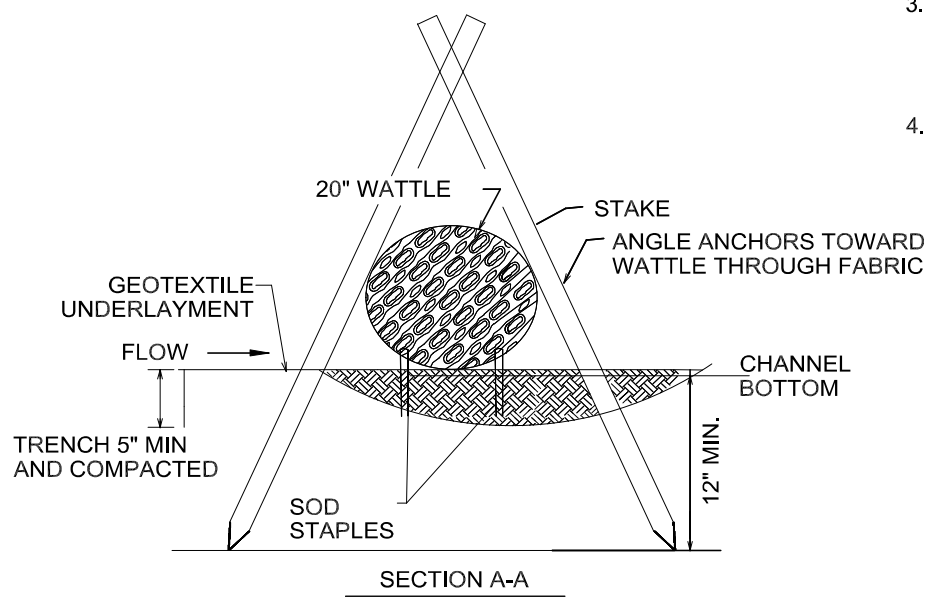




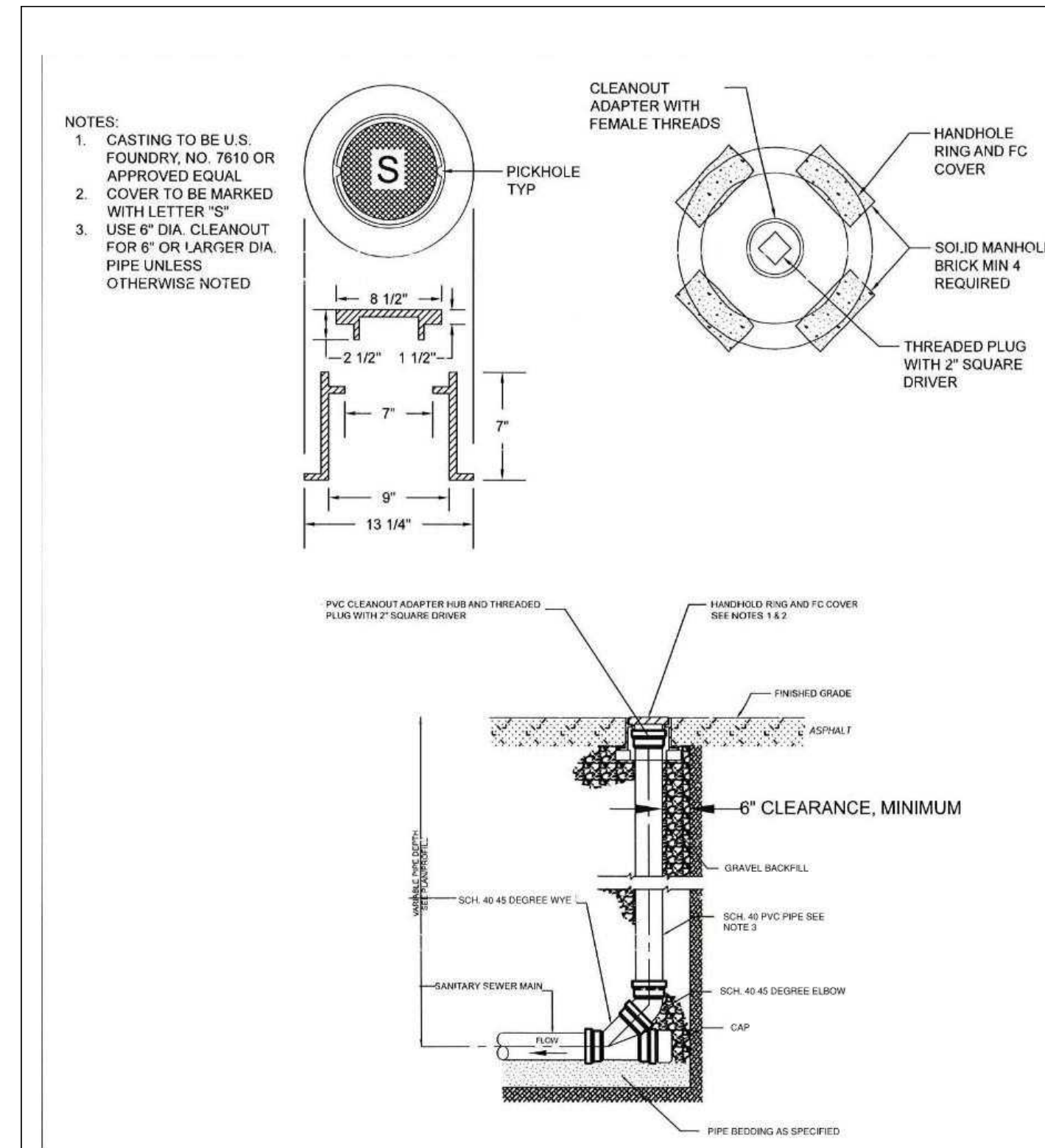
ELEVATION DETAIL
NOTE: END POINTS A MUST BE HIGHER THAN FLOWLINE POINT B

NOTES:

- REFER TO ALDOT SPECIAL DRAWING NO. ESC-300 FOR RECOMMENDED INTERVAL BETWEEN WATTLES.
- ANCHORING STAKES SHALL BE SIZED, SPACED, DRIVEN, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE CHECK. STAKE SPACING SHALL BE A MAXIMUM OF TWO FEET.
- SECURE GEOTEXTILE UNDERLAYMENT BY PLACING STAPLES 18 INCHES APART ALONG THE CHANNEL EDGES AND DOWN THE CENTER OF THE CHANNEL. SPACE STAPLES 10 INCHES APART ACROSS THE UPSTREAM AND DOWN STREAM EDGES.
- PLACE STAPLES ON BOTH SIDES OF WATTLE AT 10 INCH SPACINGS.



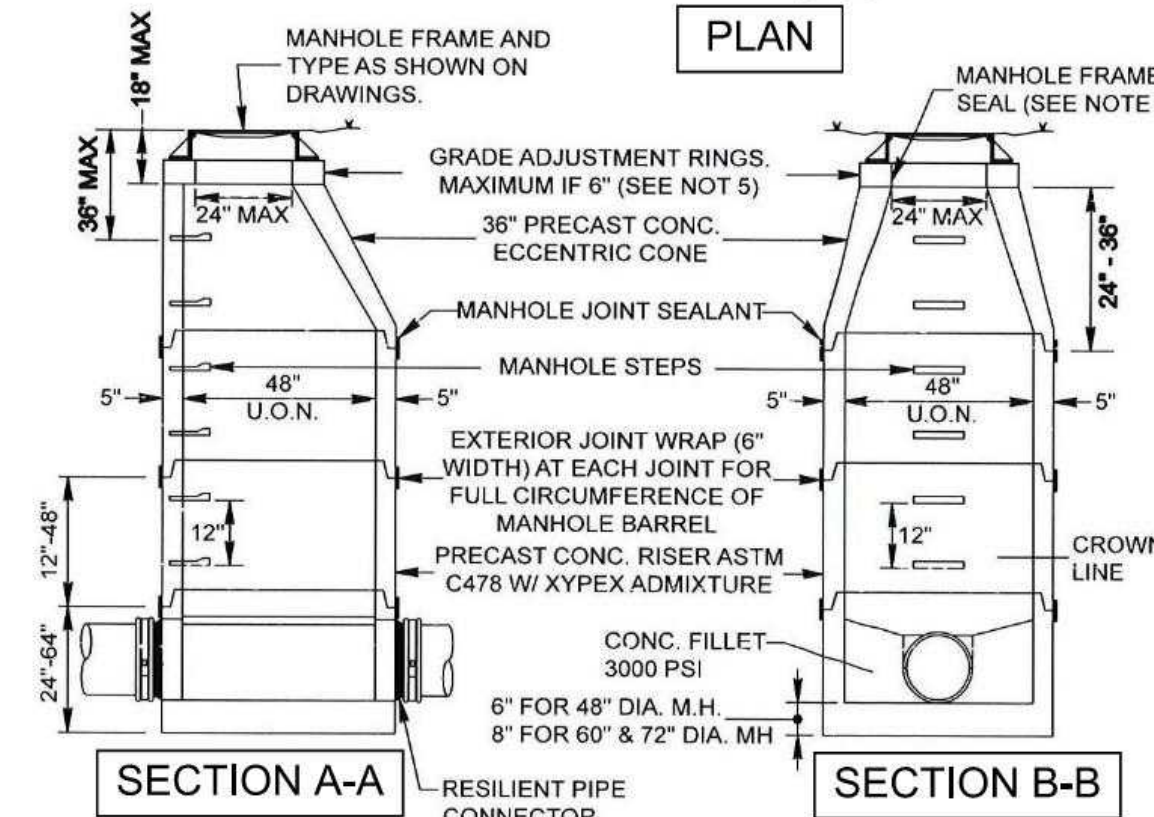
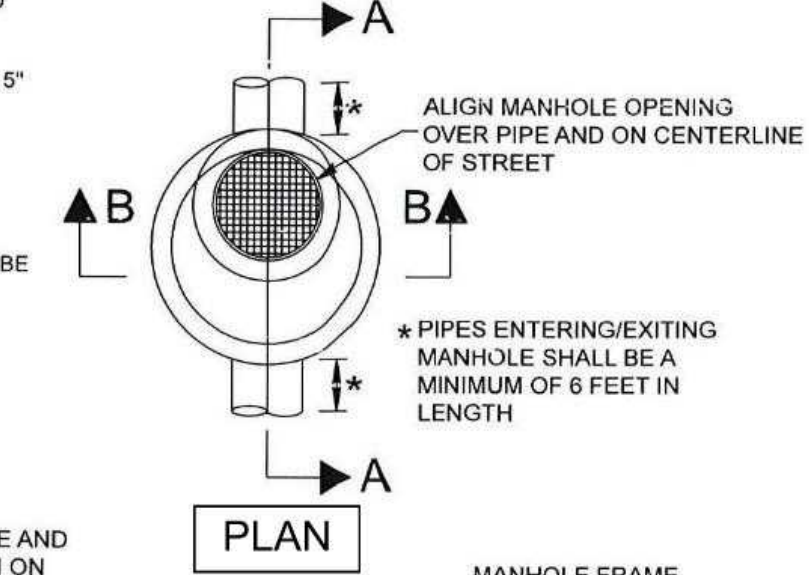
WATTLE CHECK DAM
SCALE: NTS



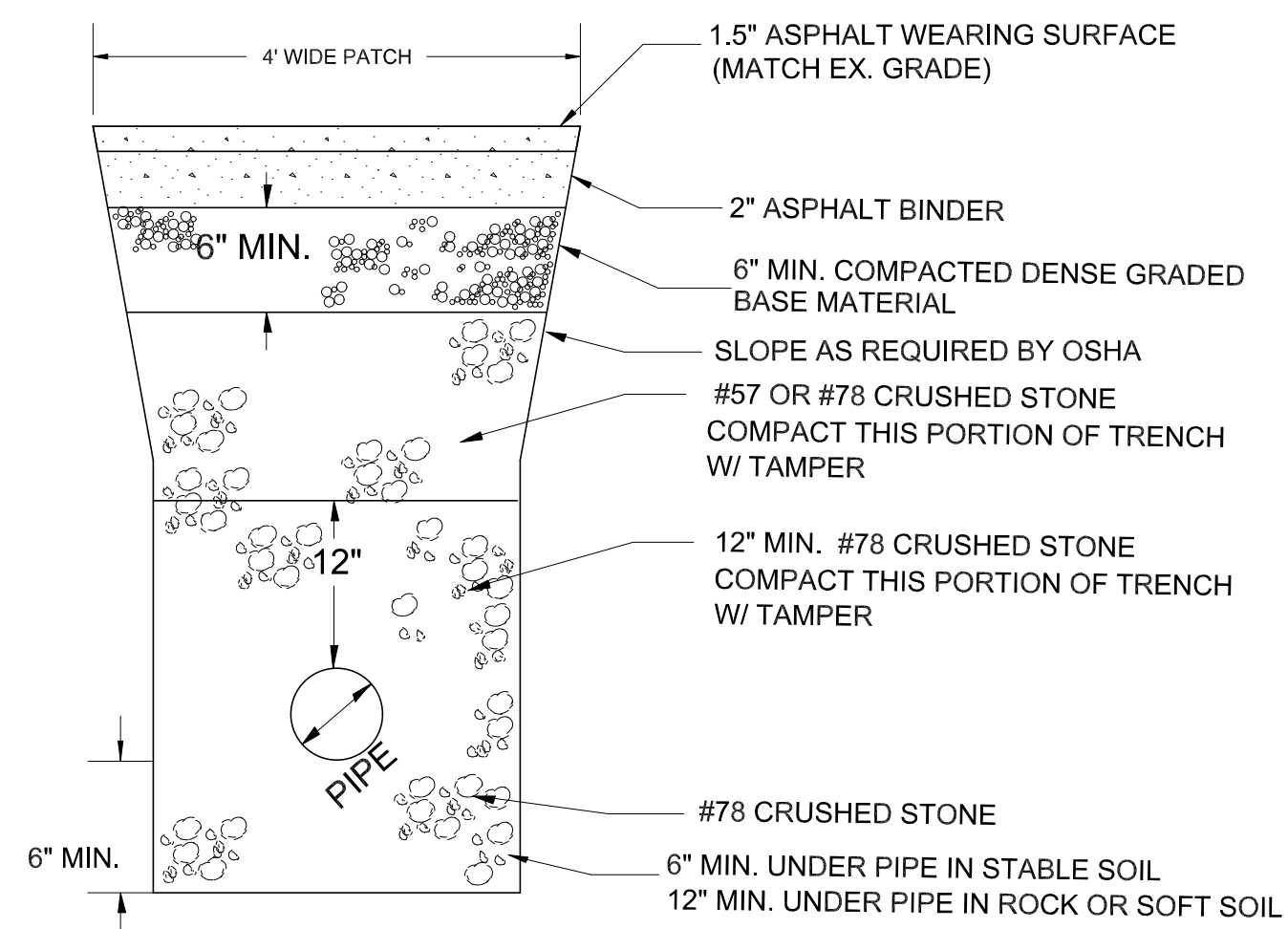
SANITARY SEWER CLEANOUT DETAIL
SCALE: NTS

NOTES:

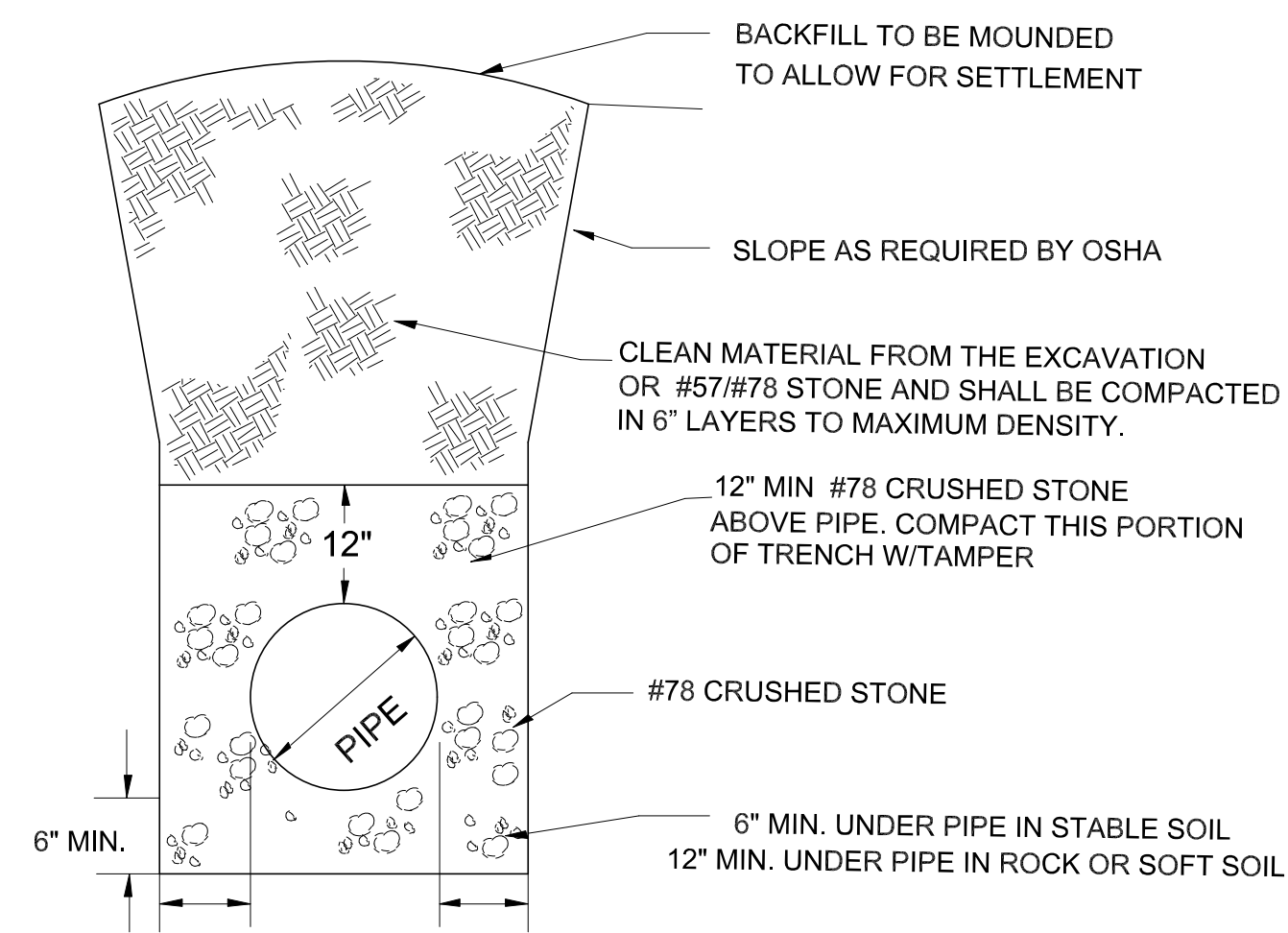
- DO NOT USE GRADE RINGS WHERE MH EXTENDS ABOVE GRADE.
- PLACE 2 STRIPS OF BUTYL RUBBER SEALANT BETWEEN TOP OF CONCRETE AND BOTTOM OF MANHOLE FRAME. GROUT FRAME AND COVER TO MANHOLE.
- MONOLITHIC MANHOLE SIDEWALL TO BE 5" THICK.
- ALL PRECAST MANHOLE SEGMENTS TO MEET REQUIREMENTS OF ASTM C478.
- WHERE GRADE ADJUSTMENT IS DONE, LENGTH A MANHOLE FRAME SEAL SHALL BE PROVIDED.



CONCRETE MANHOLE DETAIL
SCALE: NTS

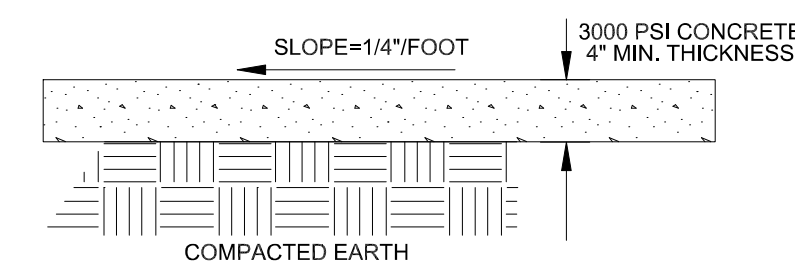


EXISTING PAVEMENT AREAS



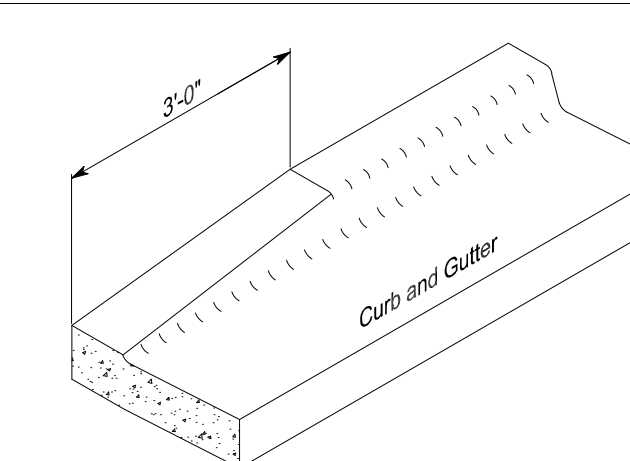
NON-TRAFFIC AREAS

STORM AND UTILITY PIPE BEDDING
NOT TO SCALE



- NOTES:
- SEE SITE PLAN FOR SIDEWALK WIDTH.
 - PROVIDE 1 1/2\"/>

SIDEWALK DETAIL
NOT TO SCALE

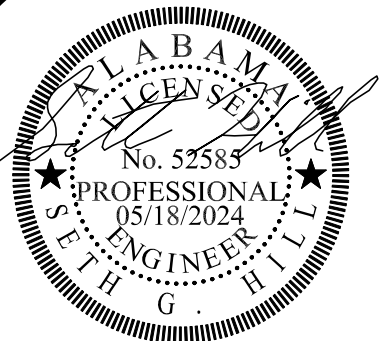


CURB END DETAIL
NOT TO SCALE

NOTE: REQUIRED AT CURB AND GUTTER TERMINATION

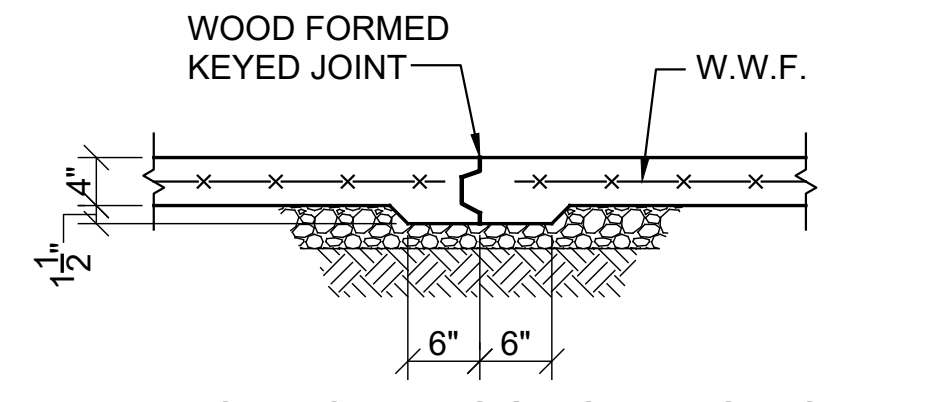
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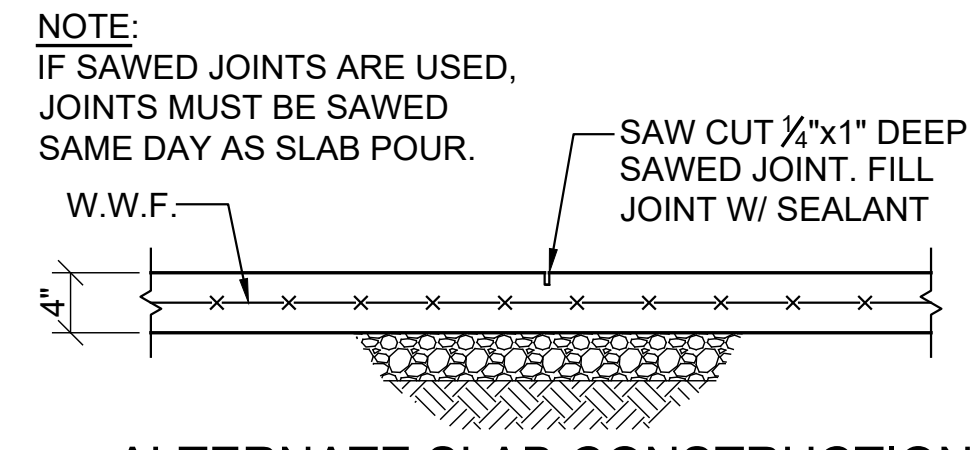


SHEET TITLE : STANDARD DETAILS
MCKEE JOB # : 23-251
DRAWN BY : SGH
DATE : 05.18.2024
REVISED DATE :
REVISED DATE :
REVISED DATE :

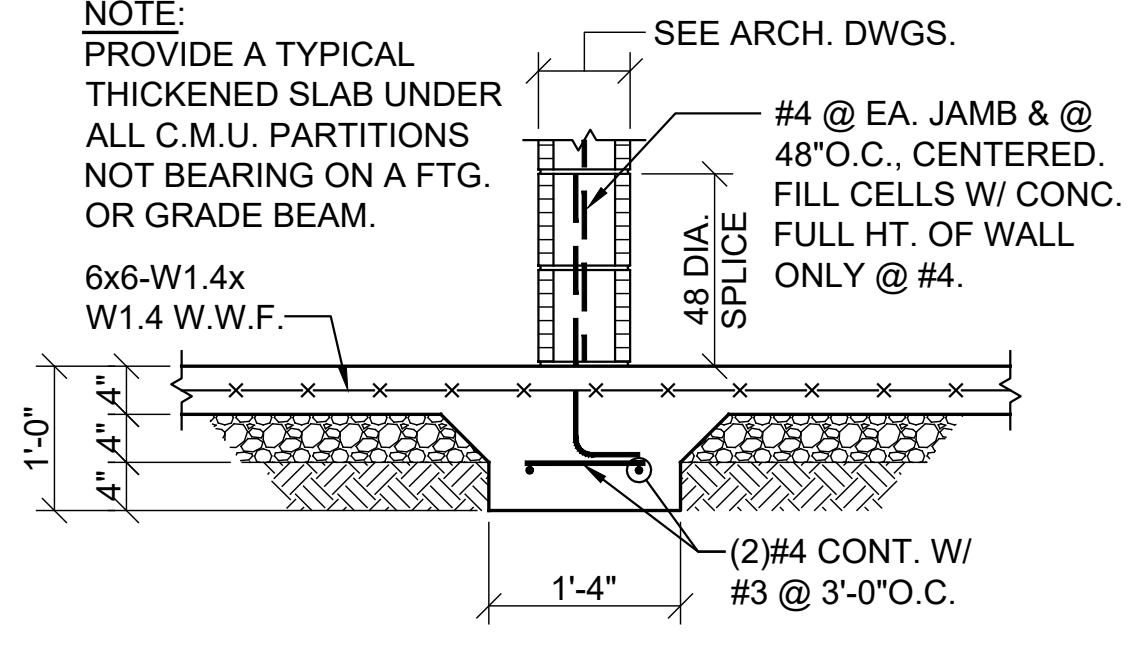
SHEET NO. : **C-6.1**



**TYPICAL SLAB CONSTRUCTION
JOINT DETAIL-(C.J.)**



**ALTERNATE SLAB CONSTRUCTION
JOINT DETAIL (SAWED JOINT)**

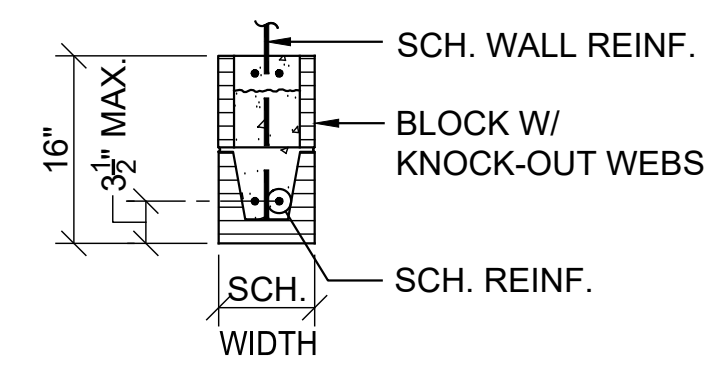


TYPICAL THICKENED SLAB DETAIL
GENERAL CONTRACTOR OPTION
#4 DOWELS MAY BE DRILLED & EPOXY
GROUTED 6" MINIMUM INTO THICKENED SLAB

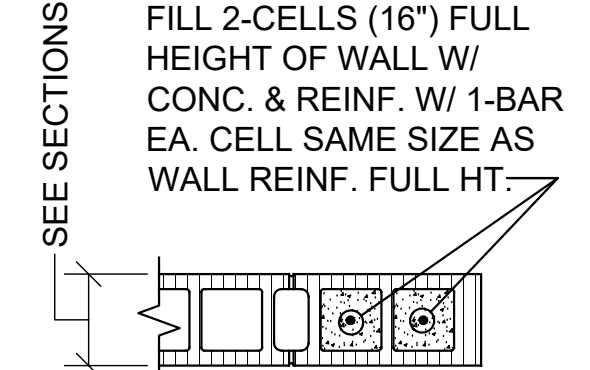
| LINTEL SCHEDULE | | | | | |
|------------------|-----------|-------------|------------|------------------------------------|-------------------------|
| MARK OR LOCATION | MAX. SPAN | TYPE | SIZE | REINFORCEMENT | REMARKS |
| 8"C.M.U. | 6'-4" | U-BLOCK | 8"x16" | (2)#5 TOP & BOT. | 16" HI U-BLOCK |
| 8"C.M.U. | 12'-8" | CONC. BEAM | 7 5/8"x16" | (2)#5 TOP & BOT. W/ #3 @ 6"O.C. | |
| BRICK | 6'-4" | STEEL ANGLE | L6x4x3/8 | | BEAR 8" EA. END, L.L.V. |

NOTES:

- BEAR 8" HIGH U-BLOCKS 8" EACH END & 16" HIGH U-BLOCKS 16" EACH END.
- FILL CELLS W/ CONCRETE FULL HEIGHT @ U-BLOCK BEARING, FOR ENTIRE LENGTH OF BEARING. REINF. EA. CELL W/ BAR SAME SIZE AS WALL REINFORCING FULL HT. OF WALL. VERTICAL REINFORCING SHALL BE CONT. THRU LINTEL @ BEARING.
- FILL CELLS OF U-BLOCK LINTEL TO FULL HT. IN ONE POUR.

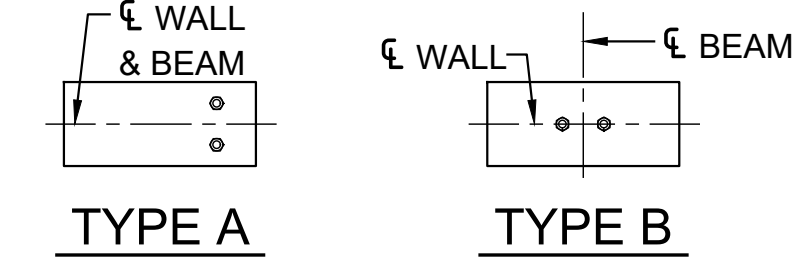


16" HIGH U-BLOCK



**TYPICAL JAMB AT 16" HIGH
CMU LINTELS BEARING 16"
AND INTERIOR CONCRETE
BEAM LINTEL**

| BEARING & BASE PLATE SCHEDULE | | | |
|-------------------------------|-------------|--------|------------------------|
| MARK | BASE R SIZE | R TYPE | ANCHOR BOLT NO. & SIZE |
| BP-1 | 1/2"x7"x16" | A | (2)3/4"Øx14" HEADED |
| BP-2 | 3/4"x7"x16" | B | (2)3/4"Øx14" HEADED |



BASE PLATE TYPES

NOTE:
ALL ANCHOR BOLTS SHALL BE GRADE 55KSI STEEL, HEADED ANCHOR BOLTS

GENERAL NOTES

- FOUNDATION:**
- THE BEARING STRATA OF ALL FOOTINGS AND GRADE BEAMS SHALL BE INSPECTED AND APPROVED BY THE SOILS TESTING LABORATORY PRIOR TO PLACING THE REINFORCING STEEL AND CONCRETE.
 - ALL FOOTINGS SHALL BEAR ON AN UNDISTURBED SOIL STRATA OR COMPACTED FILL CAPABLE OF SUSTAINING THE LOADS.
 - FOOTINGS WERE DESIGNED FOR AN ASSUMED ALLOWABLE SOIL BEARING OF P = 2000 PSF. ALLOWABLE SOIL BEARING SHALL BE VERIFIED BY TESTING AGENCY PRIOR TO FOOTINGS BEING POURED.
 - ELEVATIONS SHOWN ON PLAN ARE TOP OF FOOTINGS AND ARE MINIMUM DEPTH. DIFFERENT OR UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT AND/OR ENGINEER.
 - ALL FOOTING REINFORCEMENT SHALL BE HELD SECURELY FROM THE GROUND. CONCRETE BLOCK AND BROKEN TILE SHALL NOT BE USED. CONCRETE OR CLAY BRICK MAY BE USED.
 - DOWEL ALL FOOTINGS AND WALLS WHERE THEY ABUT WITH SAME STEEL AS VERTICAL.
 - PROVIDE PREFORMED EXPANSION JOINT WHERE SHOWN.
 - IN FOOTINGS PROVIDE CORNER BARS AT ALL EXTERIOR BUILDING CORNERS.

- CONCRETE:**
- ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH AT 28 DAYS OF F_c = 3000 PSI AND A MAXIMUM WATER-CEMENT RATIO OF 0.53. ALL CONCRETE FOR EXTERIOR APPLICATIONS SHALL CONTAIN ENTRAINED AIR. SEE SPECS FOR ADDITIONAL INFORMATION.
 - REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.
 - WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 OR ASTM A1064.
 - UNLESS NOTED OTHERWISE PROTECTIVE COVERING OF REINFORCEMENT SHALL BE AS FOLLOWS (SEE DETAILS) : FOOTINGS AND GRADE BEAMS 3" CLEAR BOTTOM AND SIDES, 1 1/2" CLEAR TOP. CONCRETE SLABS 3/4" CLEAR. WALLS 1 1/2" CLEAR SIDES. BEAMS 1 1/2" CLEAR TO STIRRUPS. FORMED CONCRETE COLUMNS 1 1/2" CLEAR TO TIES.
 - LAP ALL CONCRETE WALL VERTICAL REINFORCING AND CONCRETE BEAM HORIZONTAL REINFORCING WITH CLASS B LAP SPLICES. LAP ALL OTHER CONTINUOUS BARS WITH CLASS A SPLICES UNLESS NOTED OTHERWISE.
 - PLACING PLANS AND DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST "A.C.I. DETAILING MANUAL".
 - STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR THE ARCHITECT AND/OR ENGINEER'S REVIEW.

- STRUCTURAL STEEL:**
- ALL STRUCTURAL STEEL W AND WT SHAPES SHALL CONFORM TO ASTM A992 (GRADE 50). OTHER SHAPES SHALL CONFORM TO ASTM, A36, LATEST EDITION (EXCEPT TUBE SECTIONS).
 - STRUCTURAL STEEL TUBE SECTIONS SHALL CONFORM TO ASTM A500, GRADE B, F_y = 46.0 KSI.
 - THE CONTRACTOR SHALL VERIFY ALL SHOP DRAWINGS DIMENSIONS WITH STRUCTURAL AND ARCHITECTURAL PLANS AND DETAILS.
 - BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS CONFORMING TO ASTM A325. USE 3/4 INCH DIAMETER MINIMUM.
 - CONNECTIONS NOT SHOWN ON DRAWINGS SHALL BE DESIGNED BY THE FABRICATOR. WHERE POSSIBLE USE DOUBLE ANGLE CONNECTIONS. USE MAXIMUM NUMBER OF BOLTS FOR DEPTH OF BEAM WITH SINGLE ROW OF BOLTS.

- WOOD FRAMING:**
- ALL WOOD FRAMING MEMBERS SHALL BE STRESS RATED AND GRADE MARKED.
 - FRAMING MEMBERS SHALL BE NO.2, KILN DRIED, SOUTHERN YELLOW PINE OR APPROVED EQUAL.
 - PROVIDE PREFABRICATED WOOD TRUSSES WHERE INDICATED ON PLAN.
 - ALL TRUSSES SHALL BE DESIGNED AND MANUFACTURED TO MEET THE FOLLOWING WORKING LOADS AND CODES.
MINIMUM LOADS:
ROOF LIVE LOAD.....20 PSF.
ROOF DEAD LOAD.....15 PSF.
CEILING LOAD.....10 PSF.
 - CONNECTORS SHALL MEET THE SPECIFICATIONS OF THE TRUSS PLATE INSTITUTE AND SHALL BE SANFORD, GANG-NAIL, TEMPLIN OR EQUAL.
 - MANUFACTURER SHALL SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS FOR EACH TYPE TRUSS. DESIGNS SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF ALABAMA. SIZES OF MEMBERS MAY BE CHANGED AS ALLOWED OR REQUIRED BY THE GRADE OF LUMBER USED EXCEPT THAT ALL TOP CHORDS AND BOTTOM CHORDS SHALL BE 2X6 MINIMUM.
 - PROVIDE CAMBER IN ALL TRUSSES.
 - PROVIDE VERTICAL WEB MEMBERS TO ACCOMMODATE TRUSS VERTICAL X-BRACING (SEE PLAN FOR LOCATIONS).
 - IN ADDITION TO THE "X" BRACING SHOWN ON THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL PROVIDE ALL BRACING REQUIRED BY THE TRUSS MANUFACTURER. THE DESIGN OF BRACING FOR INDIVIDUAL TRUSS MEMBERS INCLUDING CONTINUOUS BRACING SHALL BE THE RESPONSIBILITY OF THE TRUSS DESIGN ENGINEER AND HE SHALL SHOW THE SIZES OF THIS BRACING ON THE SHOP DRAWINGS INCLUDING ALL END ANCHORAGE DETAILS FOR CONTINUOUS BRACING.
 - ANCHOR ALL TRUSSES, JOISTS, AND RAFTERS TO SUPPORTS WITH GALVANIZED FRAMING ANCHORS.
 - HURRICANE ANCHORS SHOWN ON DRAWINGS ARE MINIMUM REQUIRED. PROVIDE ADDITIONAL ANCHORS AND/OR DIFFERENT TYPES OF ANCHORS AS REQUIRED TO RESIST NET UPLIFT IN ACCORDANCE WITH TRUSS MANUFACTURER'S RECOMMENDATIONS. TRUSS MANUFACTURER SHALL INDICATE REQUIRED ANCHORAGE ON SHOP DRAWINGS.
 - ALL NAILS, ANCHOR BOLTS, AND OTHER STEEL ANCHORS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE HOT DIP GALVANIZED OR STAINLESS STEEL. PROVIDE 15# FELT SEPARATOR (OR EQUIVALENT) AS REQUIRED BETWEEN ALL PRESSURE TREATED WOOD AND OTHER METAL FRAMING.
 - UNLESS NOTED OTHERWISE ATTACH PLYWOOD ROOF DECK WITH 10d NAILS @ 6" O.C. AT SUPPORTED EDGES AND @ 12" O.C. AT INTERMEDIATE SUPPORTS.

- CODES:**
- ALL PARTS SHALL BE FURNISHED AND ERECTED ACCORDING TO THE APPLICABLE CODES AND SPECIFICATIONS OF THE FOLLOWING:
- AMERICAN CONCRETE INSTITUTE (ACI)
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
 - AMERICAN WELDING SOCIETY (AWS)
 - OSHA STEEL ERECTION STANDARD (OSHA)
 - NATIONAL LUMBER MANUFACTURER'S ASSOCIATION (NLMA)
 - AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC)
 - INTERNATIONAL BUILDING CODE (IBC 2021) (ICC)

- DESIGN LIVE LOADS:**
- ROOF.....20 PSF.
 - RISK CATEGORY (PER IBC 2021/ASCE 7-16).....II
 - WIND.....INTERNATIONAL BUILDING CODE (PER ASCE 7-16)
ULTIMATE DESIGN WIND SPEED (V_{ult}).....105 MPH
NOMINAL DESIGN WIND SPEED (V_{asd}).....81 MPH
WIND EXPOSURE.....C
 - INTERNAL PRESSURE COEFFICIENTS.....+/-0.18
 - SEISMIC.....INTERNATIONAL BUILDING CODE (PER ASCE 7-16)
SEISMIC IMPORTANCE FACTOR.....Ie=1.0
MAPPED SPECTRAL ACCELERATION (SHORT-TERM).....S_s=0.306g
MAPPED SPECTRAL ACCELERATION (1-SECOND).....S₁=0.142g
SITE CLASS.....D
SHORT-PERIOD SPECTRAL RESPONSE ACCEL.....S_{ds}=0.317g
1-SECOND SPECTRAL RESPONSE ACCEL.....S_{d1}=0.220g
SEISMIC DESIGN CATEGORY.....B
SEISMIC FORCE-RESISTING SYSTEM:
SPECIAL REINFORCED CMU SHEAR WALLS
DESIGN BASE SHEAR (ULTIMATE).....13.4k
SEISMIC RESPONSE COEFFICIENT.....Cs=0.063
RESPONSE MODIFICATION FACTOR.....R=5.0
ANALYSIS PROCEDURE.....ASCE 7 (SECT 12.8)

- SNOW.....INTERNATIONAL BUILDING CODE**
GROUND SNOW LOAD.....Pg=10 PSF

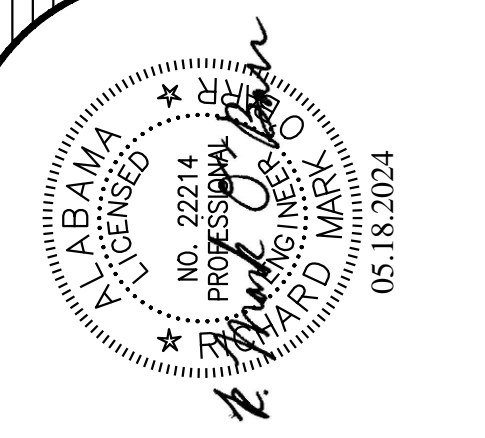
COMPONENTS AND CLADDING ULTIMATE WIND PRESSURES:
NOTE: MULTIPLY ALL VALUES SHOWN BELOW BY 0.6 TO GET ALLOWABLE DESIGN PRESSURES. SEE FIGURE 30.4-1 OF ASCE 7-16 FOR INDICATED ZONES.

- ROOF:TRIBUTARY AREA A = 10 SF
ZONE 1: -41.9 PSF/18.6 PSF
ZONE 2e: -58.8 PSF/18.6 PSF
ZONE 2r: -54.6 PSF/18.6 PSF
ZONE 3: -58.8 PSF/18.6 PSF
- ROOF:TRIBUTARY AREA A = 100 SF
ZONE 1: -24.9 PSF/10.2 PSF
ZONE 2e: -39.3 PSF/10.2 PSF
ZONE 2r: -36.7 PSF/10.2 PSF
ZONE 3: -39.3 PSF/10.2 PSF
- WALL:TRIBUTARY AREA A = 10 SF
ZONE 4: -27.1 PSF/24.9 PSF
ZONE 5: -33.5 PSF/24.9 PSF
- WALL:TRIBUTARY AREA A = 50 SF
ZONE 4: -24.4 PSF/22.4 PSF
ZONE 5: -28.2 PSF/22.4 PSF
- WALL:TRIBUTARY AREA A = 100 SF
ZONE 4: -23.3 PSF/21.3 PSF
ZONE 5: -25.9 PSF/21.3 PSF
- CORNER ZONE = 5 FT

- SPECIAL INSPECTIONS:**
- ALL SPECIAL INSPECTIONS REQUIRED BY CHAPTER 17 OF IBC SHALL BE PERFORMED BY A DESIGNATED TESTING AGENCY OR AGENCIES RESPONSIBLE FOR SPECIAL INSPECTIONS.

- SEISMIC REQUIREMENTS FOR SPECIAL INSPECTIONS:**
- THE FOLLOWING STRUCTURAL COMPONENTS ARE DESIGNATED AS SEISMIC SYSTEMS AND/OR PART OF THE SEISMIC-FORCE-RESISTING SYSTEM OF THE BUILDING AND ARE SUBJECT TO THE REQUIREMENTS OF SECTIONS 1705.13 OF IBC 2021 AND PROJECT SPECIFICATIONS:
ROOF DIAPHRAGM SYSTEM AND ATTACHMENT
CMU SHEAR WALLS (INCL. ANCHORAGE TO FOUNDATION)
THESE SPECIFIC COMPONENTS ARE IN ADDITION TO ALL GENERAL COMPONENTS LISTED IN SECTIONS 1705.12 AND 1705.13 OF IBC 2021 AND ARE SUBJECT TO ALL SPECIAL INSPECTIONS AND TESTING AS REQUIRED BY CHAPTER 17 OF IBC 2021, PROJECT SPECIFICATIONS, AND SCHEDULE OF SPECIAL INSPECTIONS. SPECIAL INSPECTION REPORTS SHALL BE SUBMITTED AS PER THE STATEMENT OF SPECIAL INSPECTIONS.
 - OTHER ARCHITECTURAL, MECHANICAL, OR ELECTRICAL COMPONENTS AND THEIR ANCHORAGES MAY ALSO BE DESIGNATED AS SEISMIC SYSTEMS. SEE OTHER DISCIPLINE'S DRAWINGS AND SPECIFICATIONS.

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MCKEE and ASSOCIATES
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SHEET TITLE : GENERAL NOTES
SCHEDULES
TYPICAL DETAILS

MCKEE JOB # : 23-251

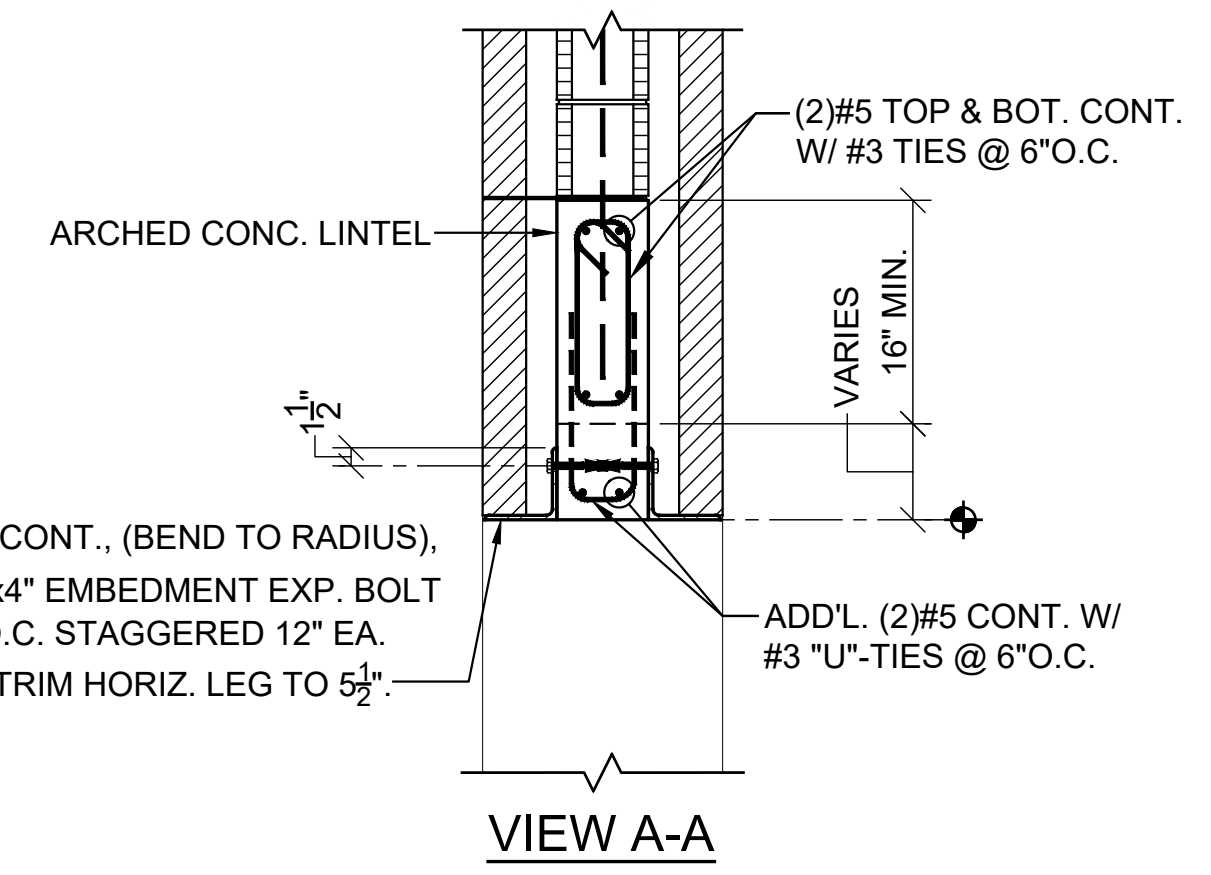
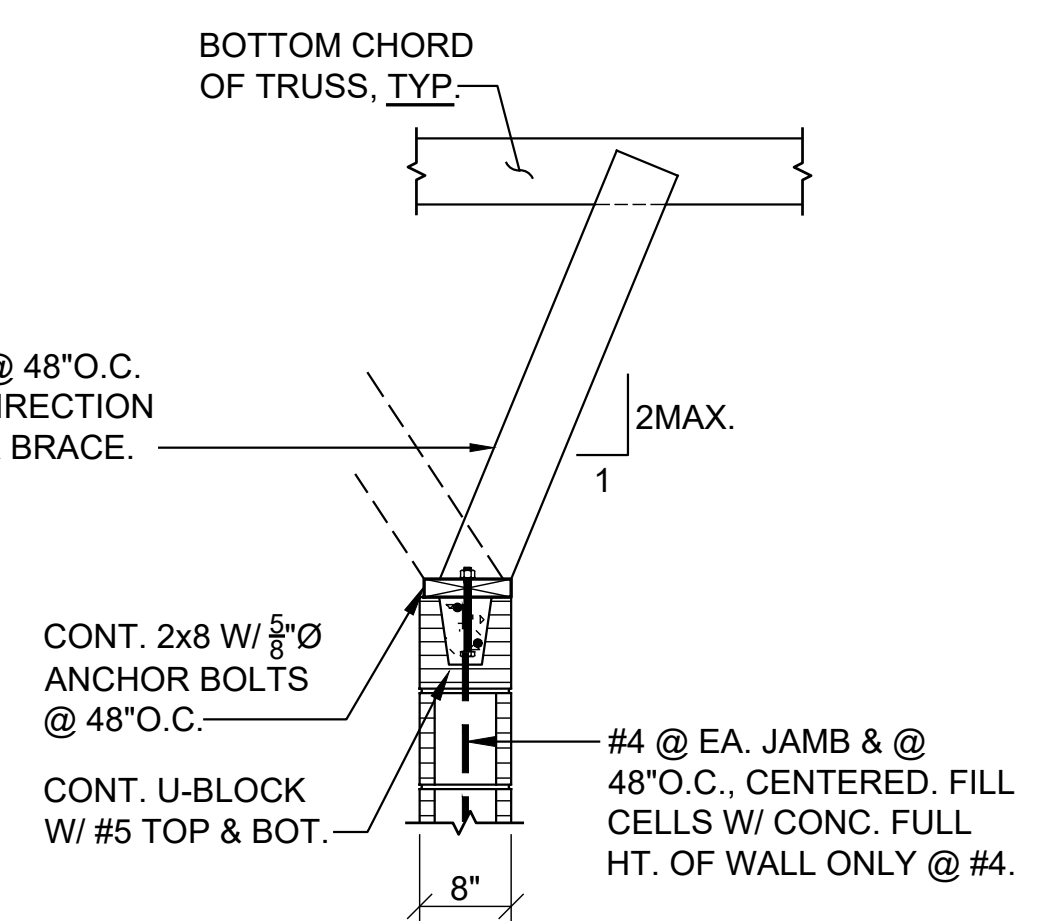
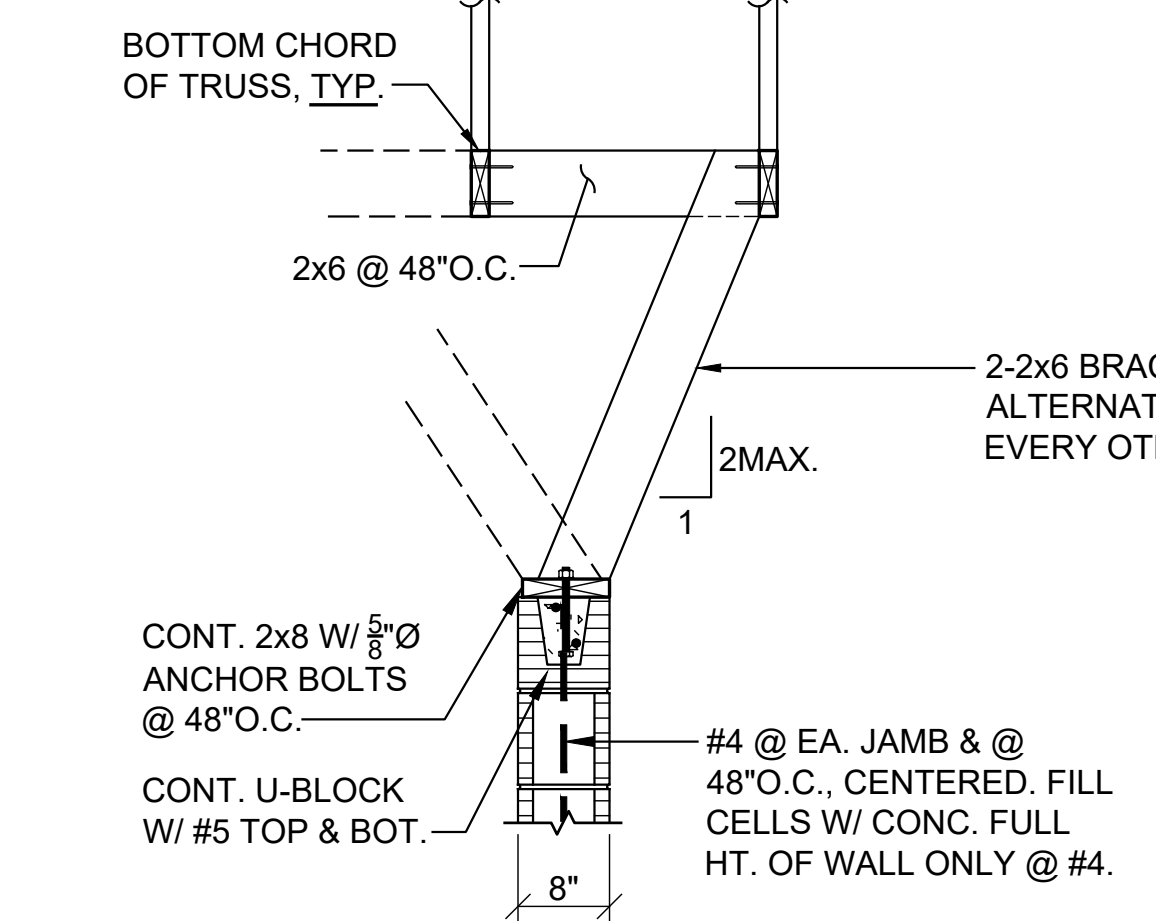
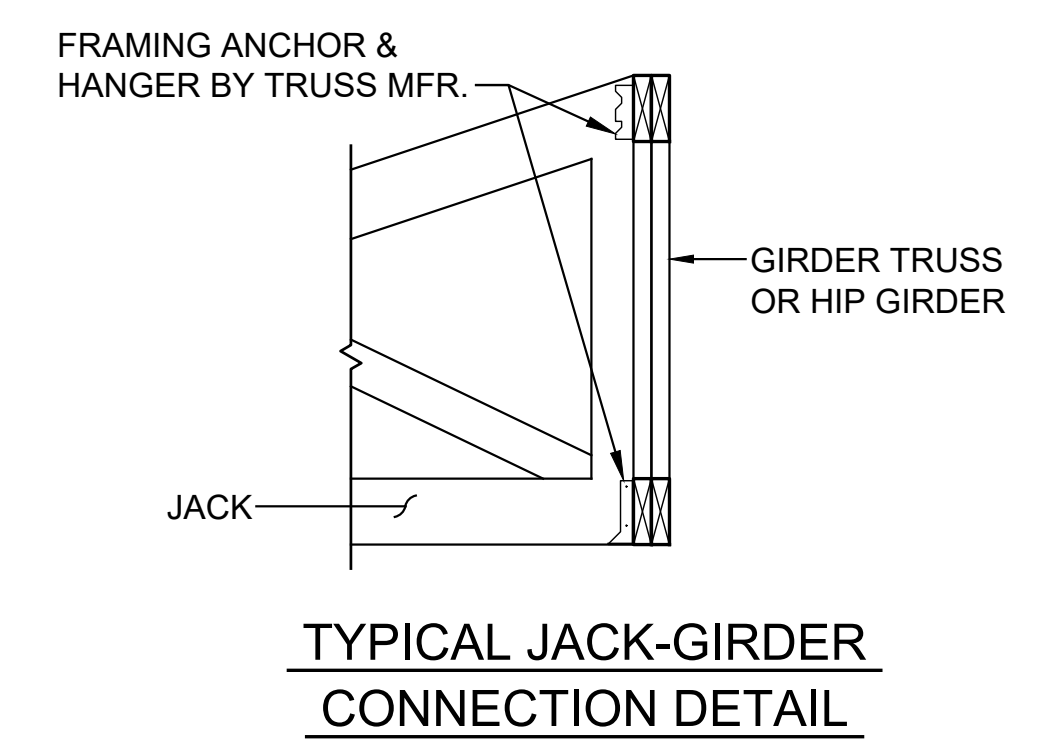
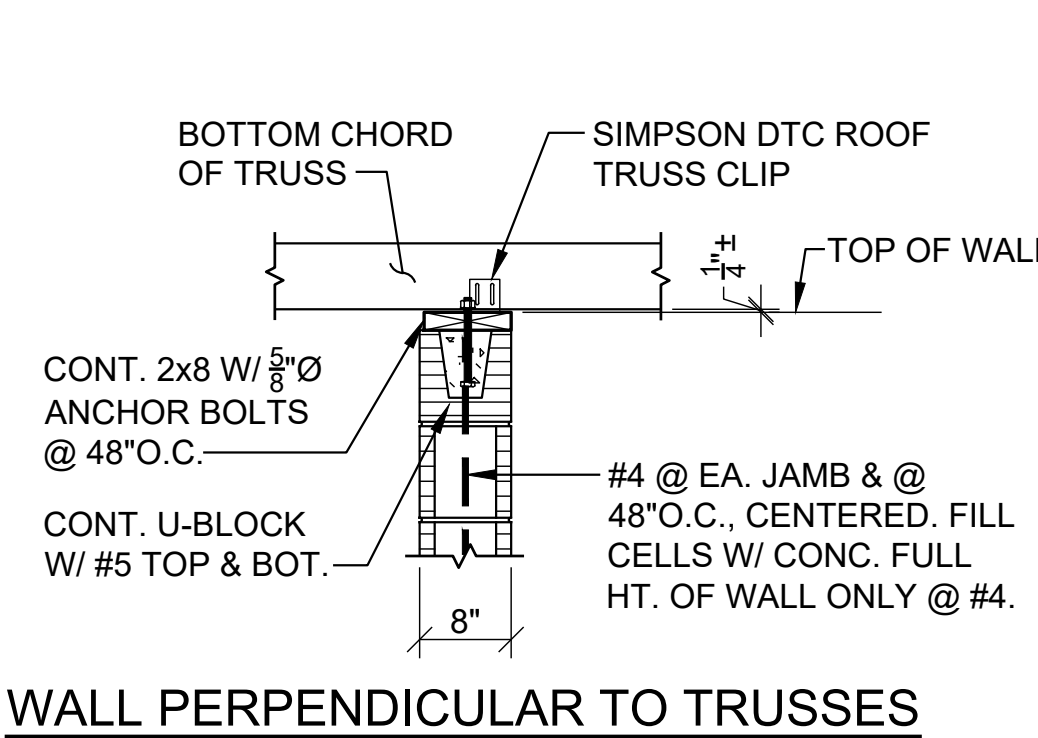
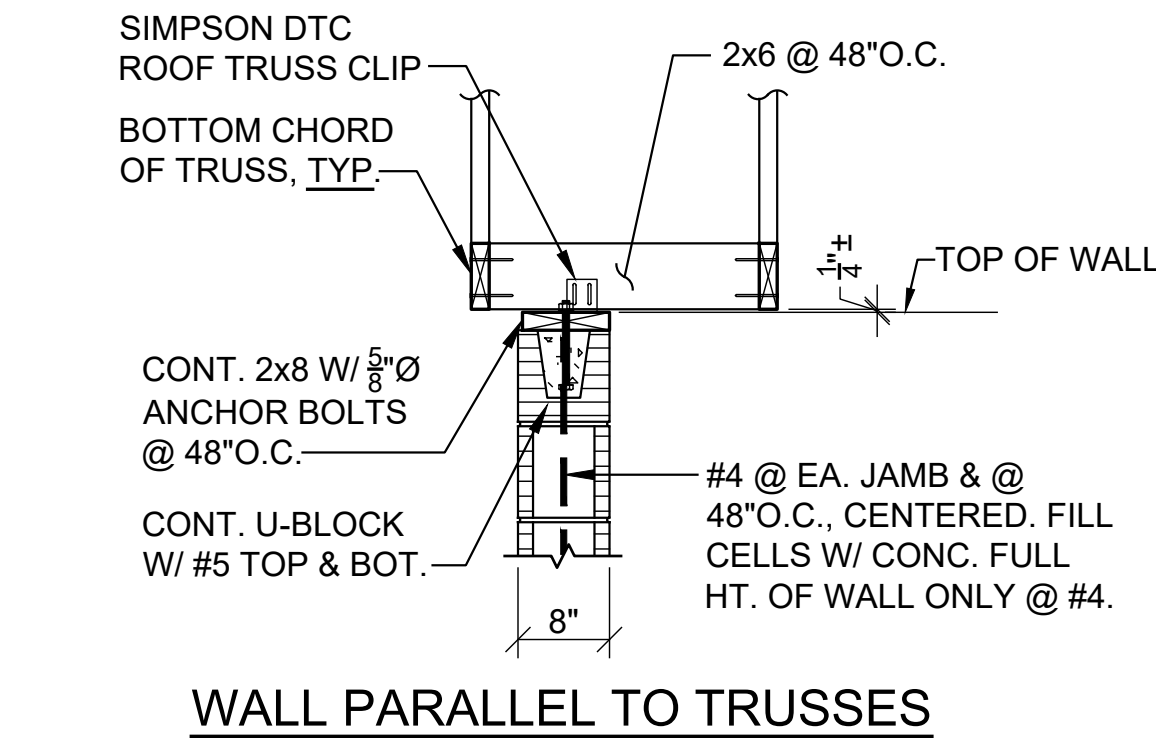
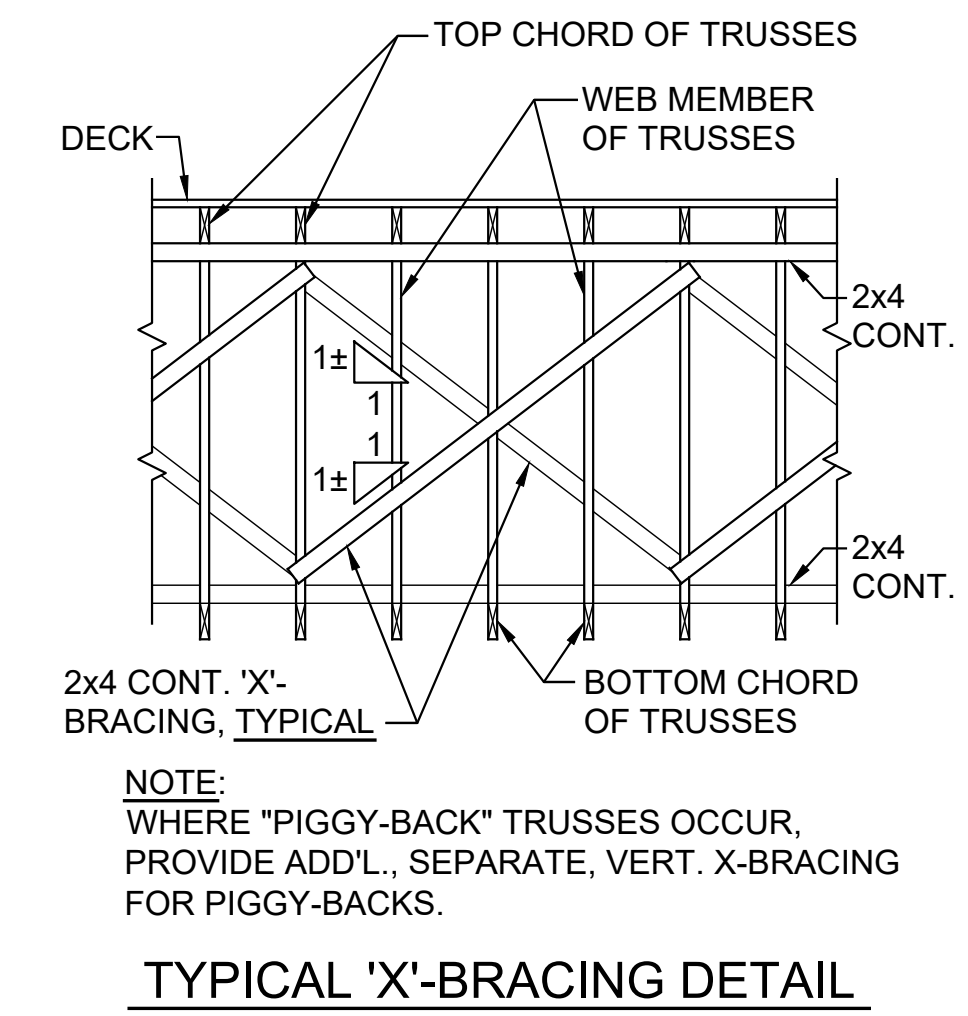
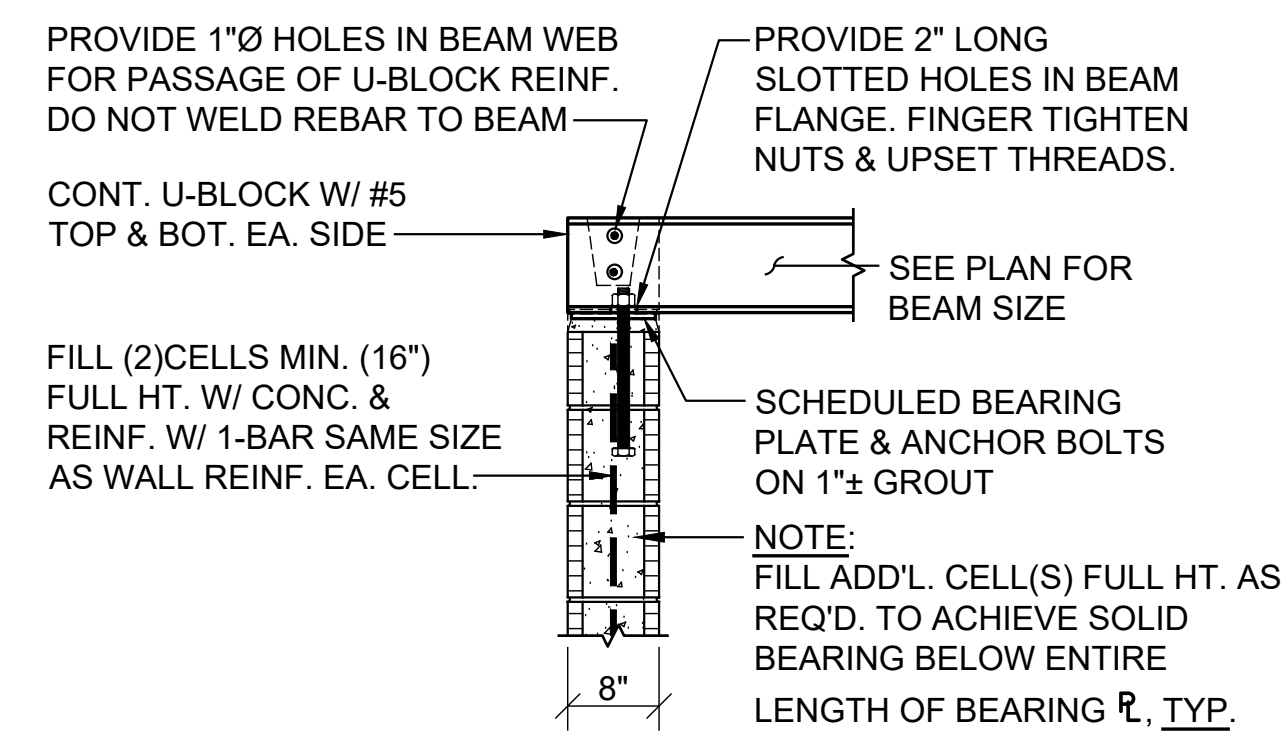
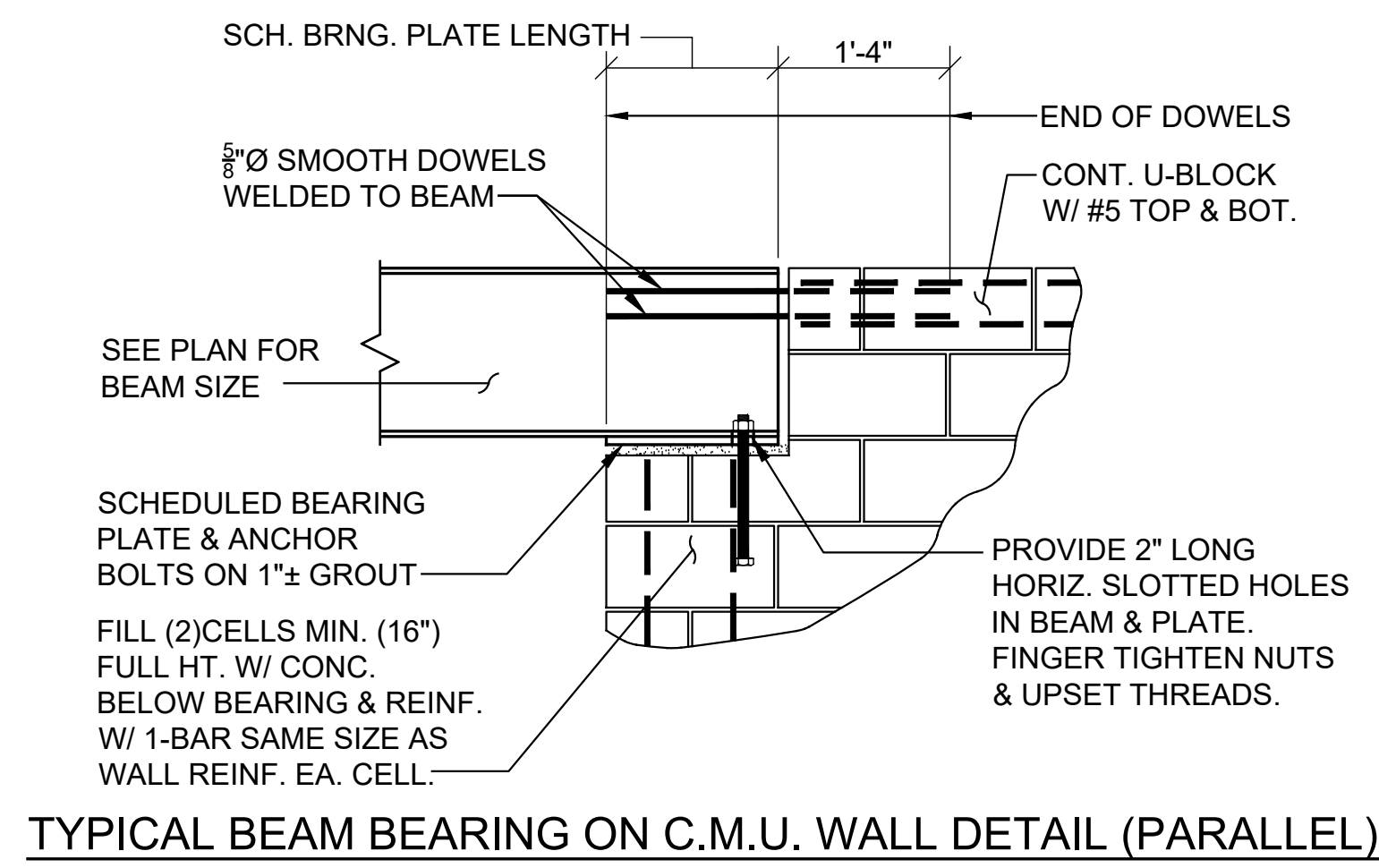
DRAWN BY : R. Casey

DATE : 05.18.2024

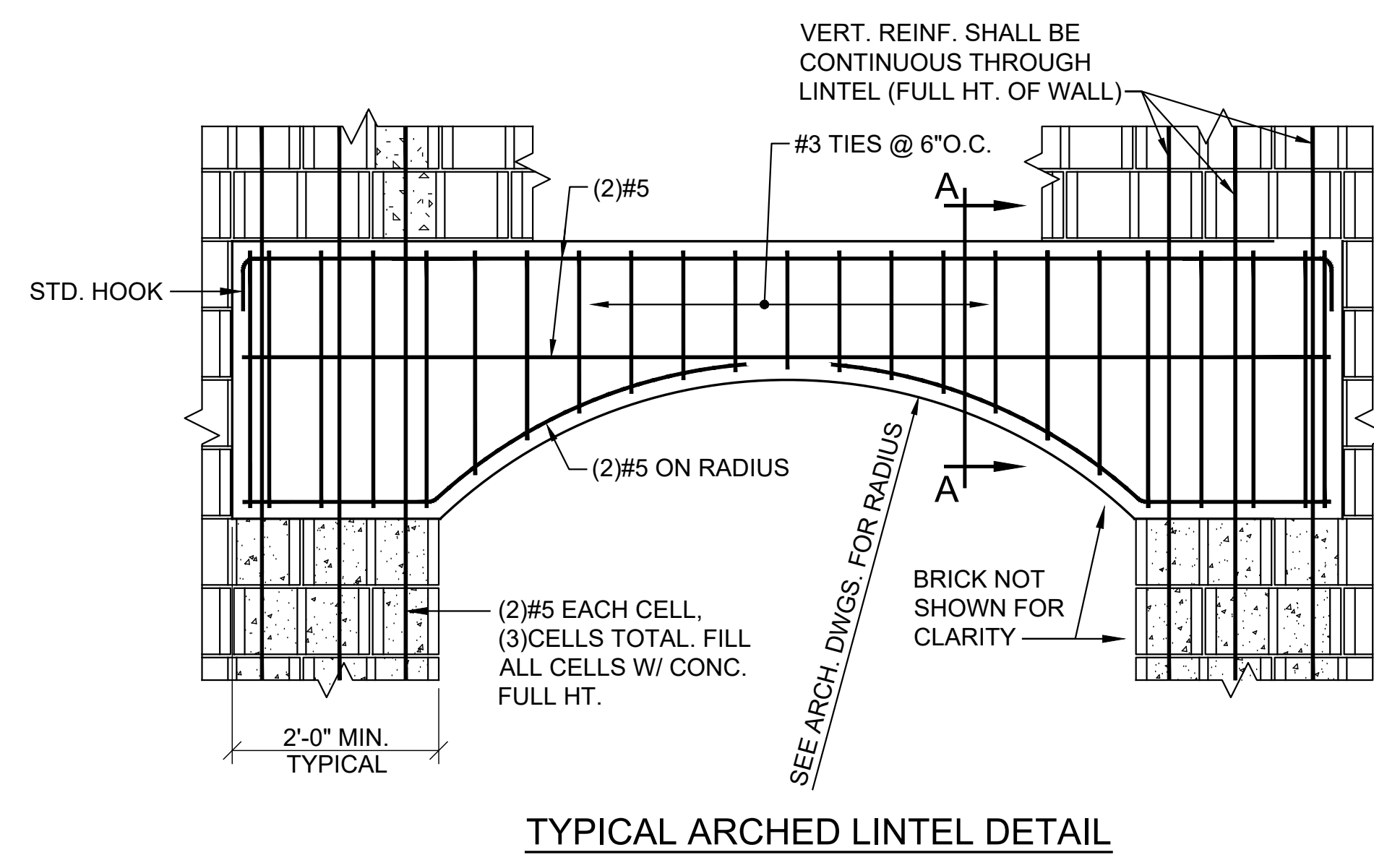
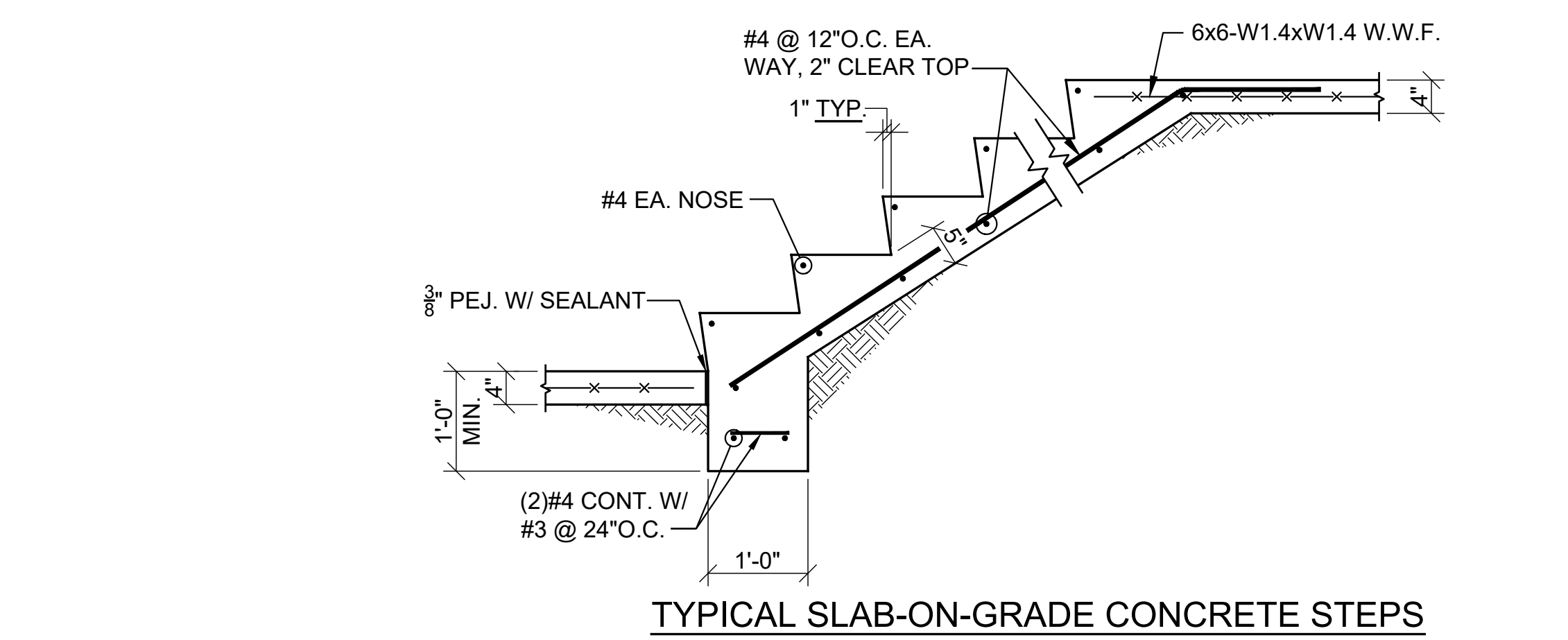
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TYPICAL WALL ANCHORAGE DETAIL @ WOOD TRUSSES



SHEET TITLE : TYPICAL DETAILS

MCKEE JOB # : 23-251

DRAWN BY : R. Casey

DATE : 05.18.2024

REVISED DATE :

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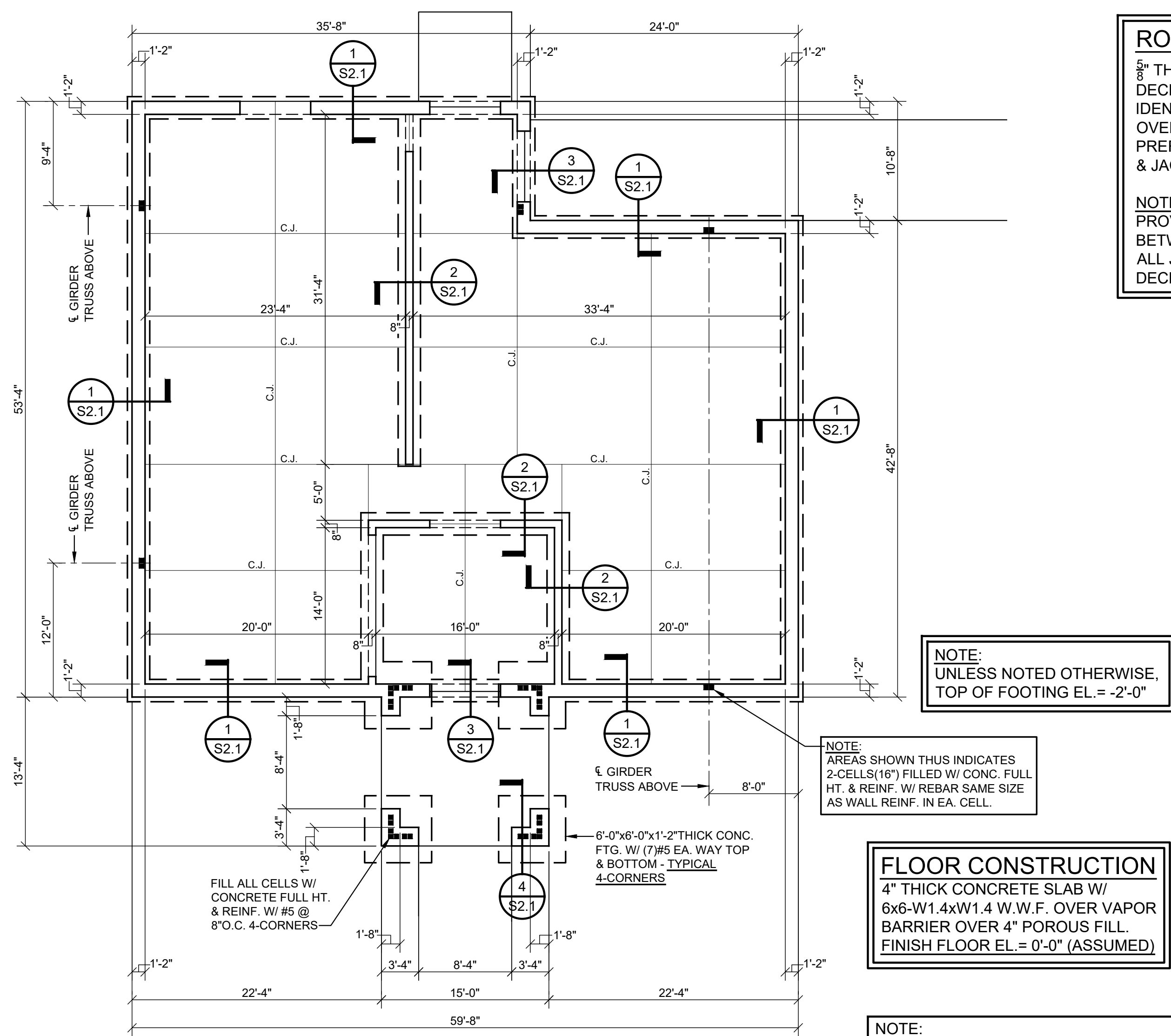
REVISED DATE :

SHEET NO. : **S0.2**

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FOUNDATION PLAN - ADMINISTRATION BUILDING
SCALE: 1/8" = 1'-0"

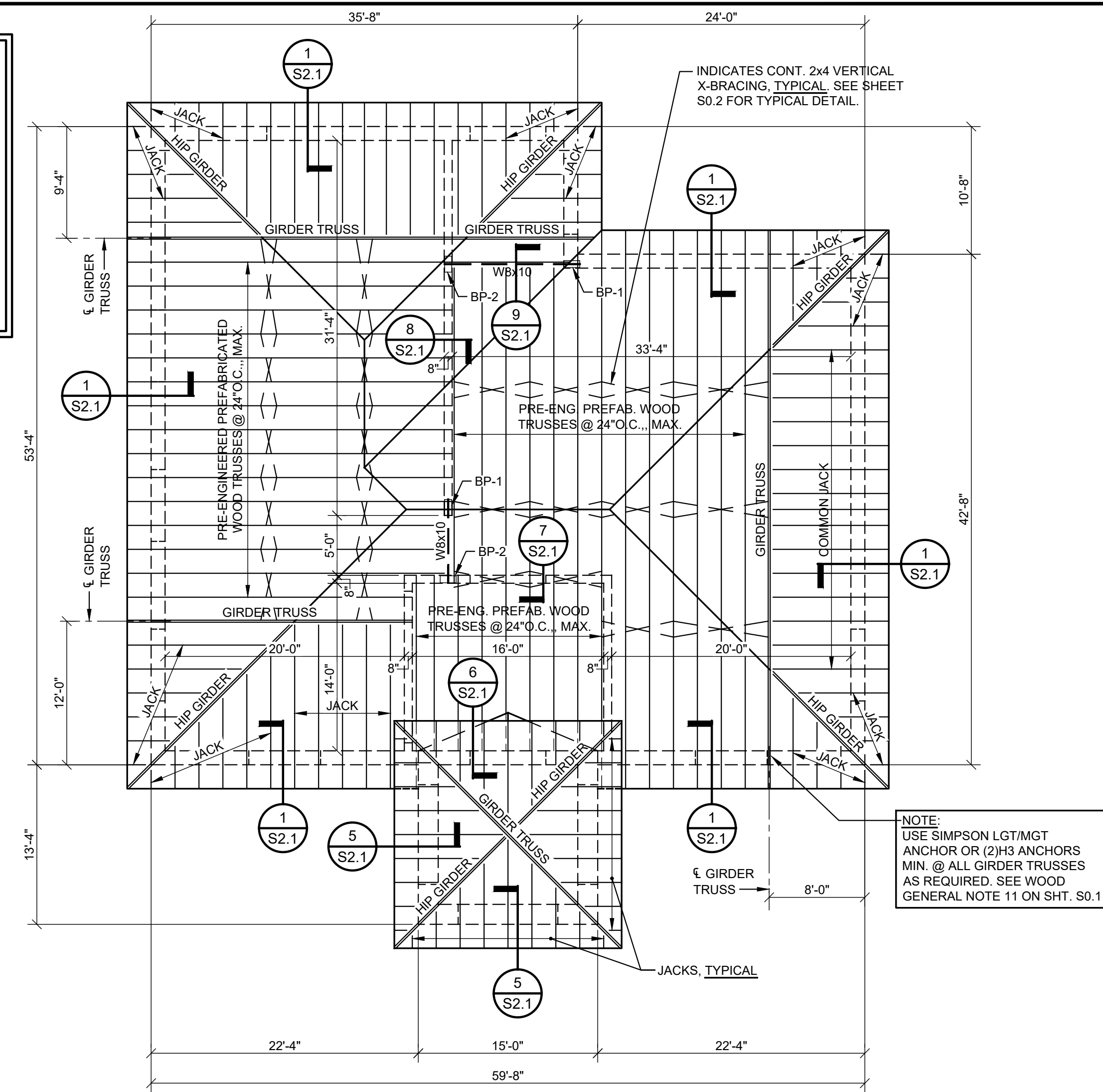
ROOF CONSTRUCTION
5/8" THICK APA RATED PLYWOOD DECK, EXPOSURE 1, W/ PANEL IDENTIFICATION INDEX OF 40/20 OVER PRE-ENGINEERED PREFABRICATED WOOD TRUSSES & JACKS @ 24" O.C., MAXIMUM.
NOTE: PROVIDE PLYCLIPS @ MID SPAN BETWEEN TRUSSES & RAFTERS @ ALL JOINTS IN ADJACENT ROOF DECK SHEETS.

NOTE: UNLESS NOTED OTHERWISE, TOP OF FOOTING EL. = -2'-0"

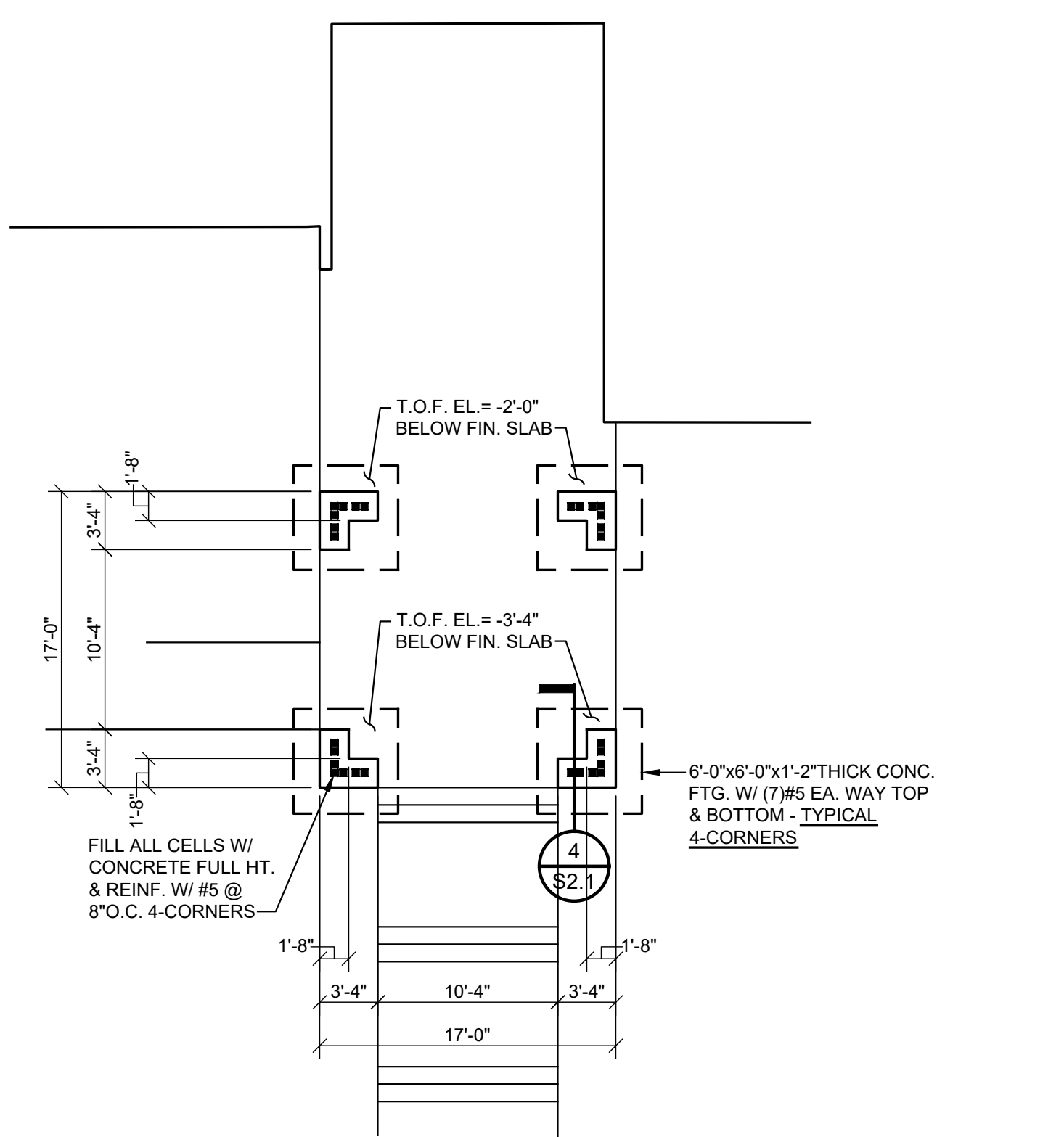
NOTE: AREAS SHOWN THUS INDICATES 2-CELLS (16") FILLED W/ CONC. FULL HT. & REINF. W/ REBAR SAME SIZE AS WALL REINF. IN EA. CELL.

FLOOR CONSTRUCTION
4" THICK CONCRETE SLAB W/ 6x6-W1.4xW1.4 W.W.F. OVER VAPOR BARRIER OVER 4" POROUS FILL. FINISH FLOOR EL. = 0'-0" (ASSUMED)

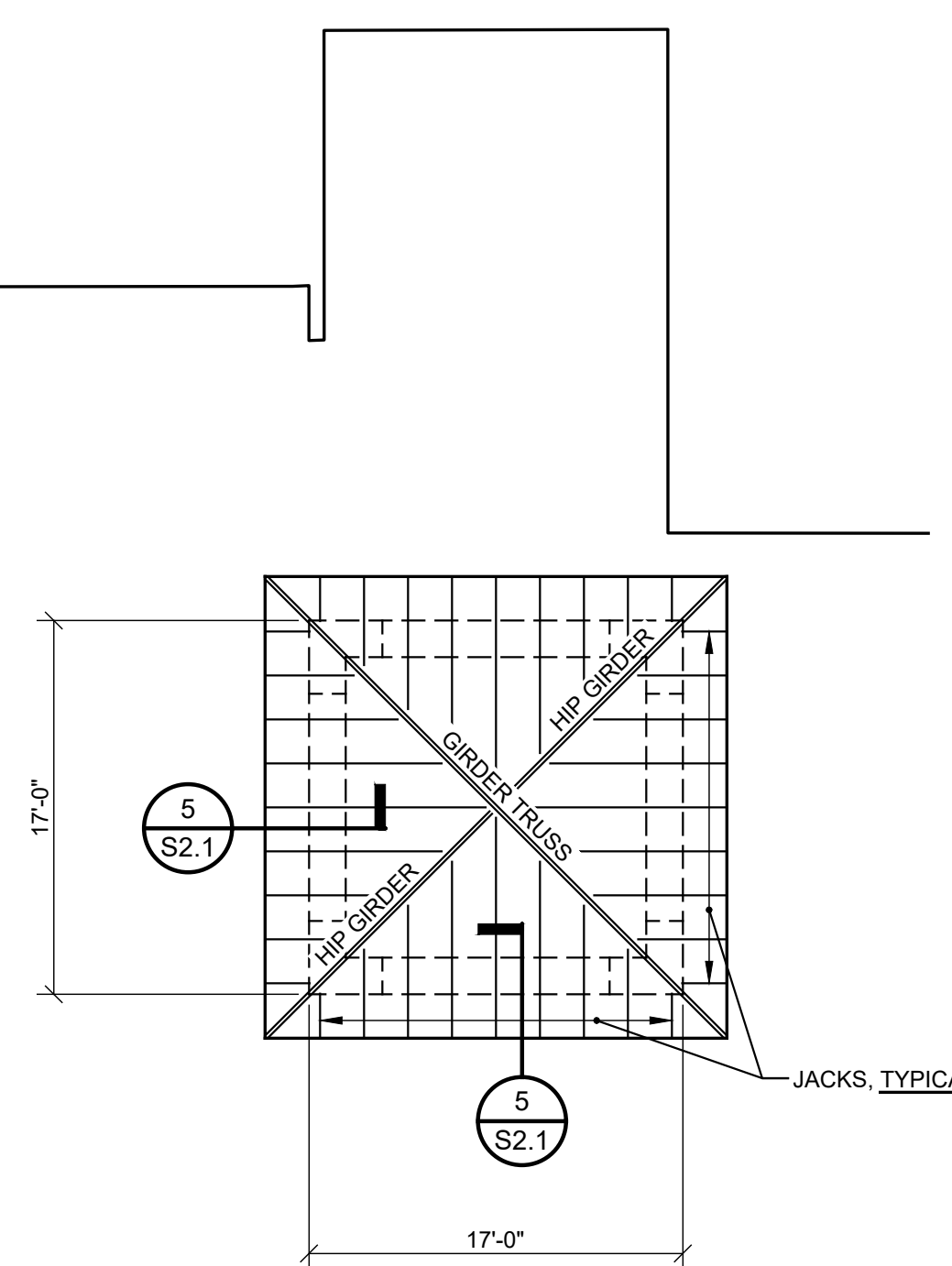
NOTE: PROVIDE A TYPICAL THICKENED SLAB UNDER ALL C.M.U. PARTITIONS NOT BEARING ON A FOOTING. SEE SHEET S1.1 FOR TYPICAL DETAIL.



ROOF FRAMING PLAN - ADMINISTRATION BUILDING
SCALE: 1/8" = 1'-0"



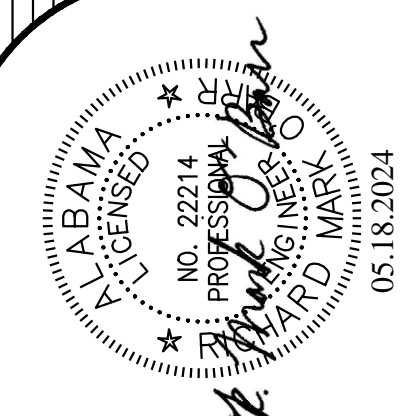
FOUNDATION PLAN - ENTRY TOWER
SCALE: 1/8" = 1'-0"



ROOF FRAMING PLAN - ENTRY TOWER
SCALE: 1/8" = 1'-0"

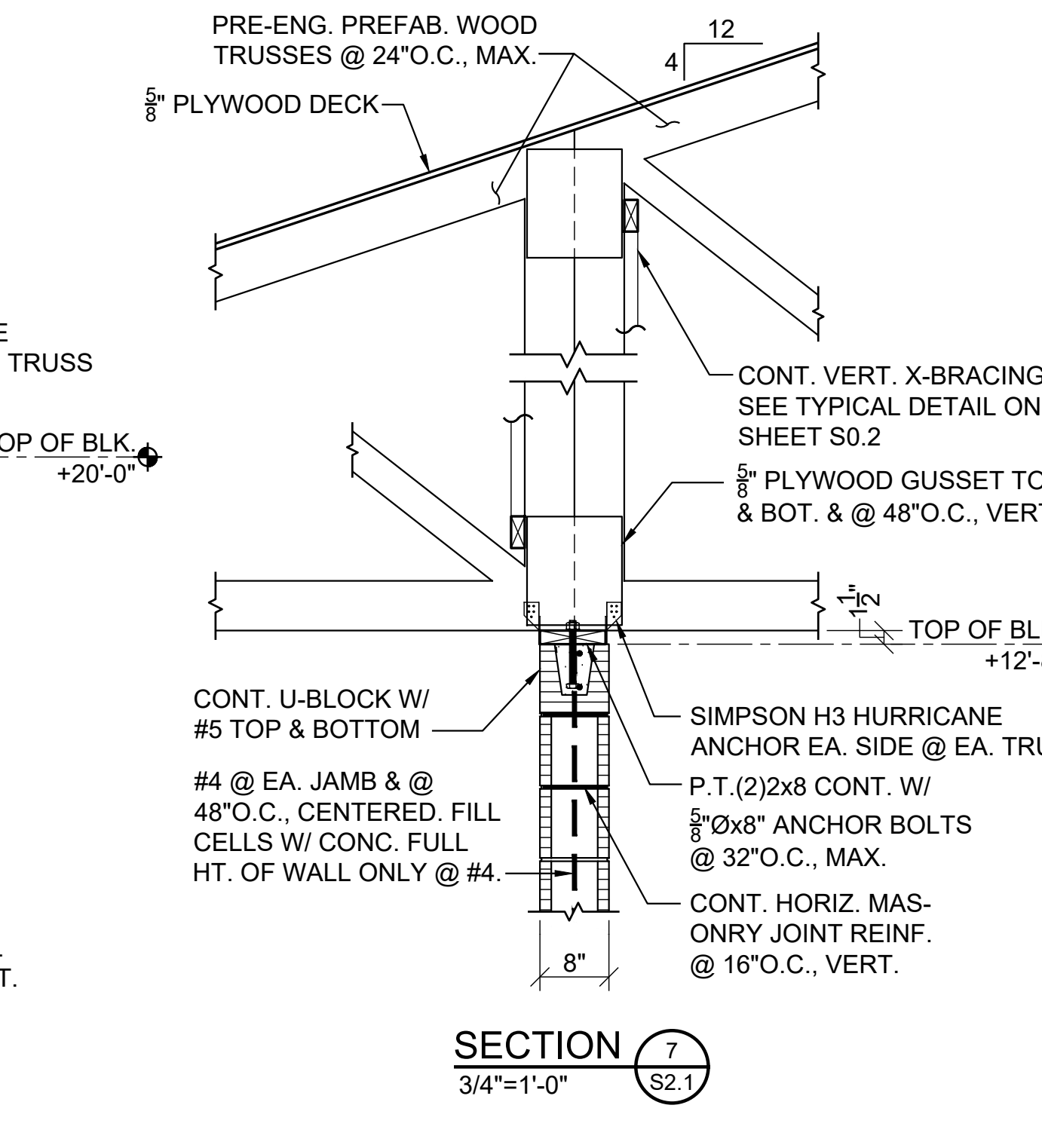
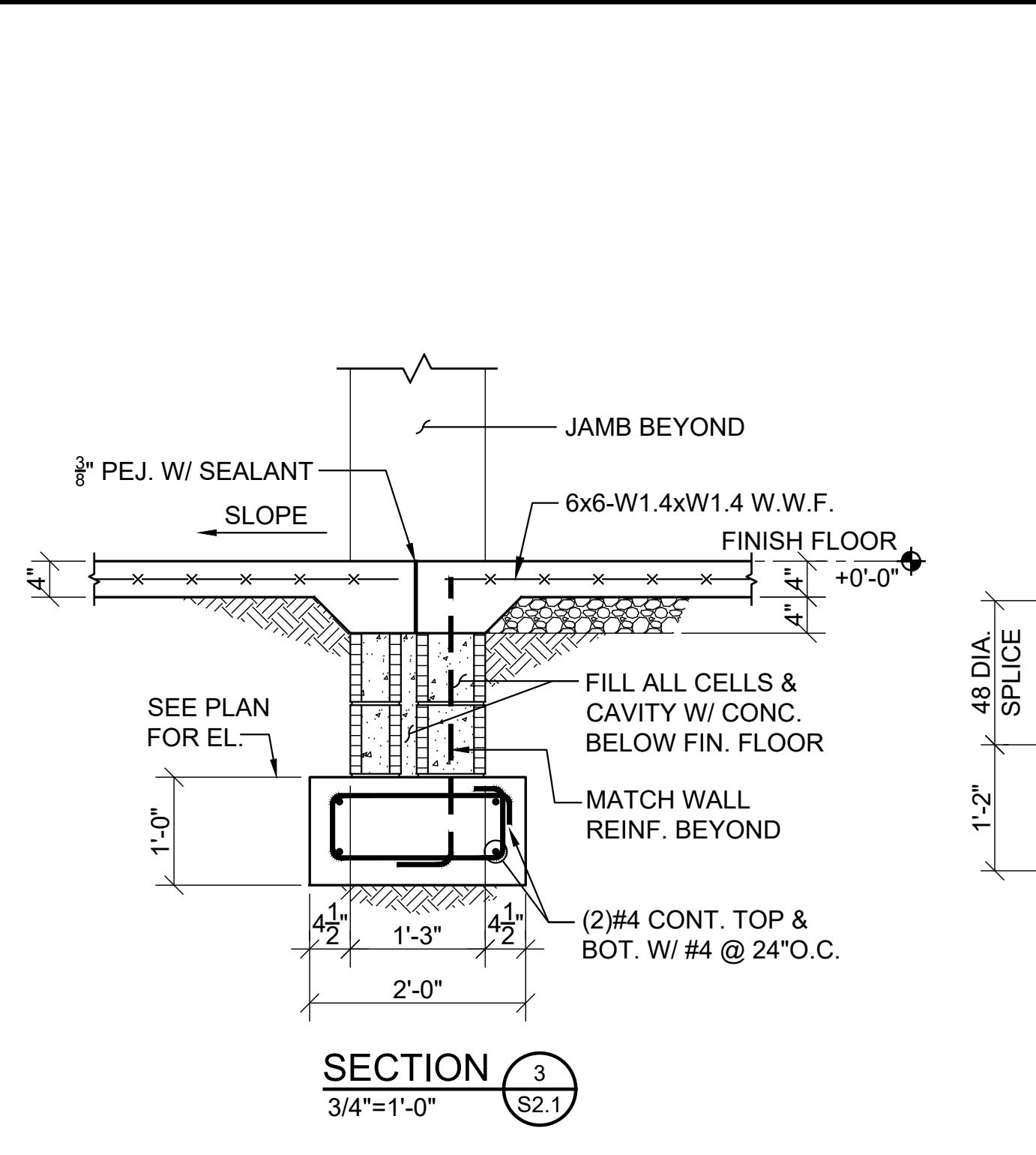
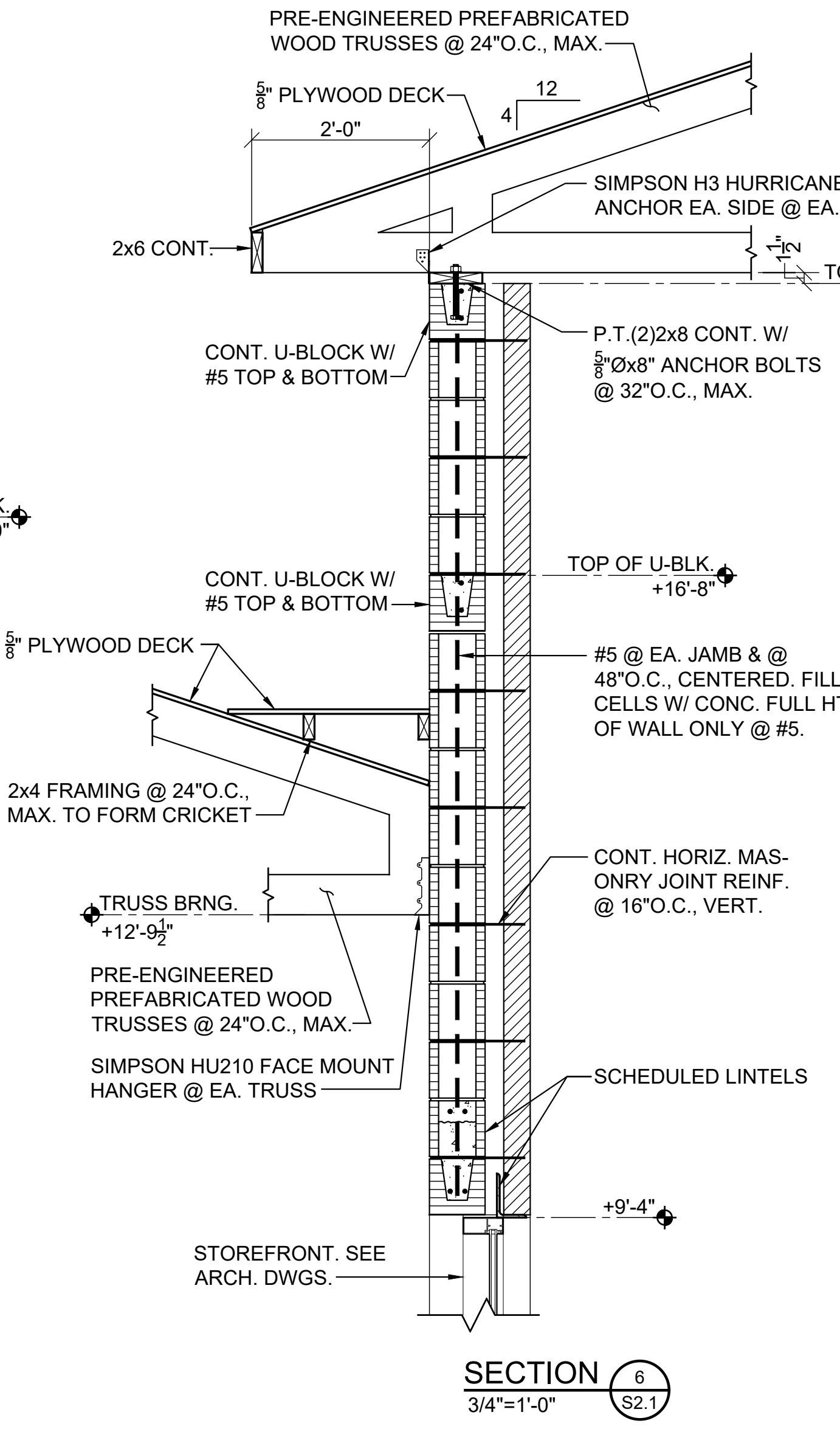
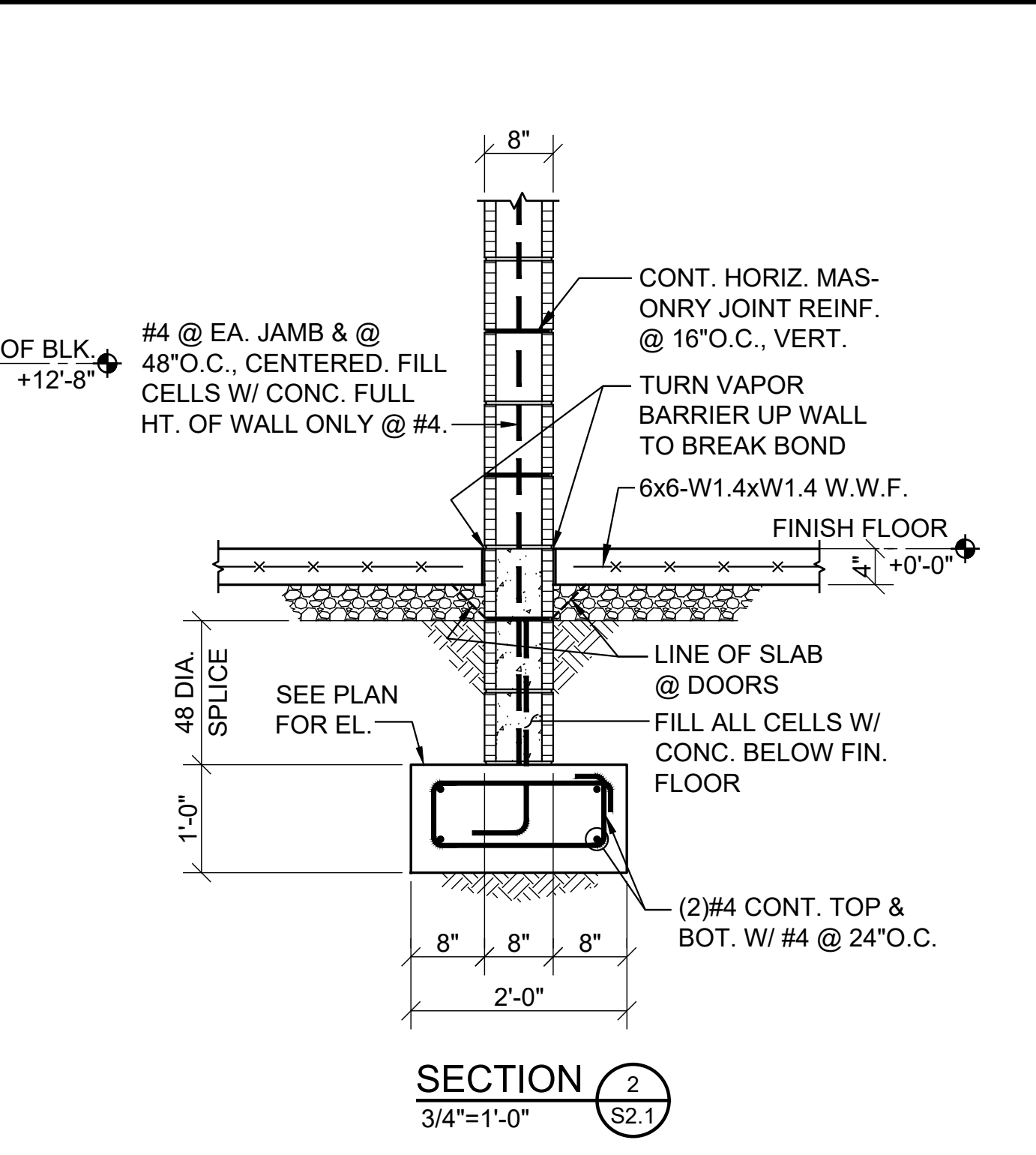
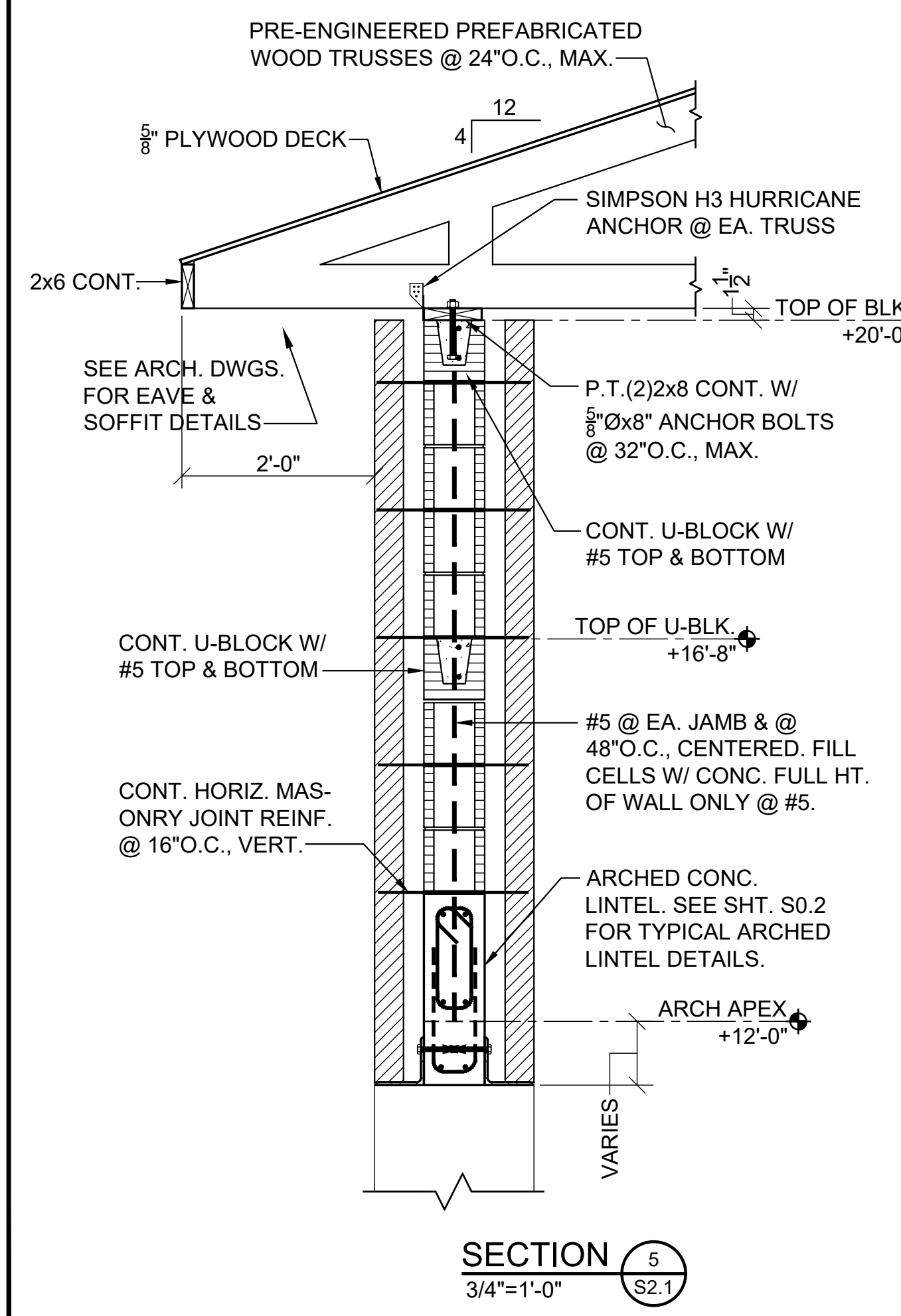
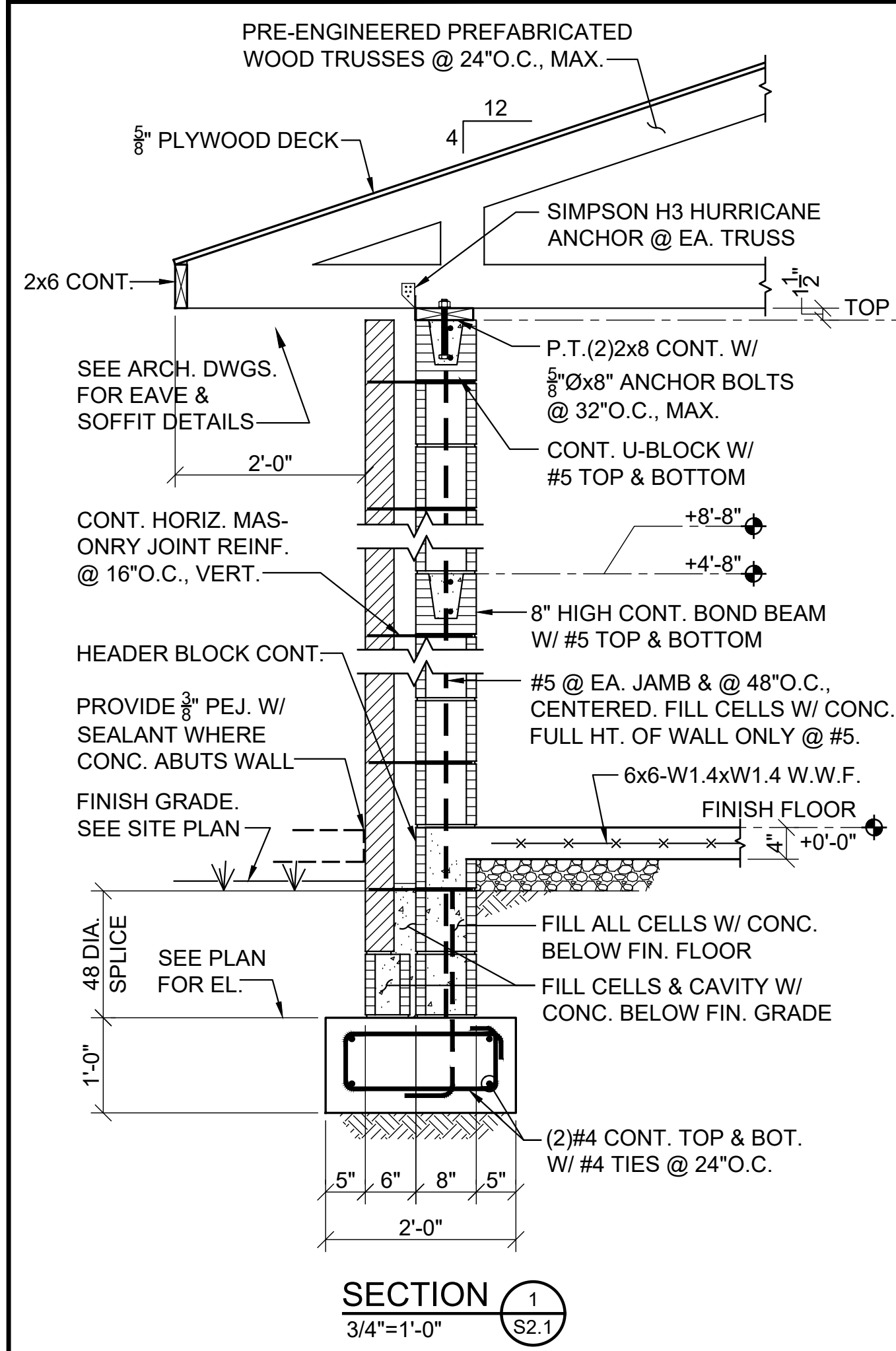
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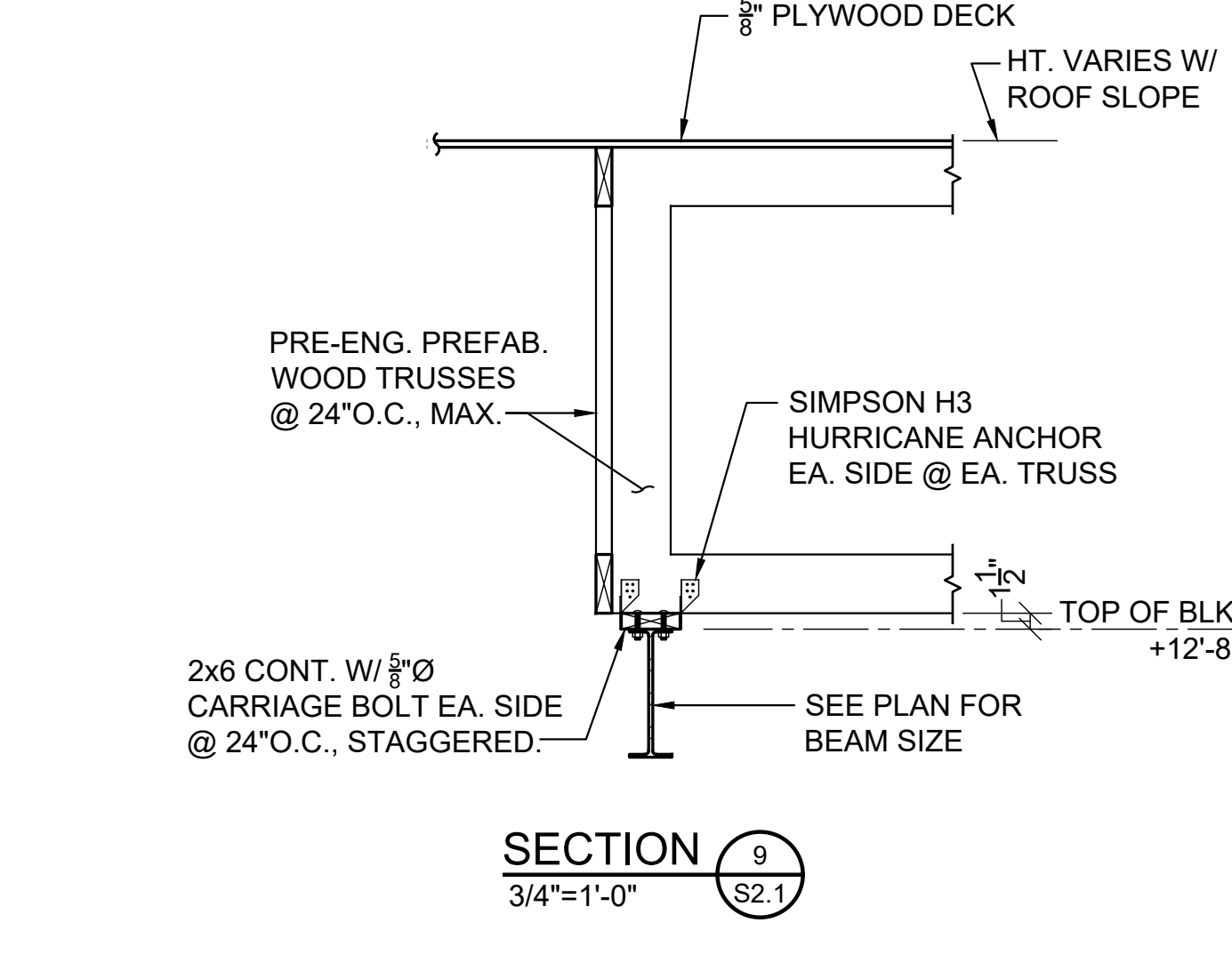
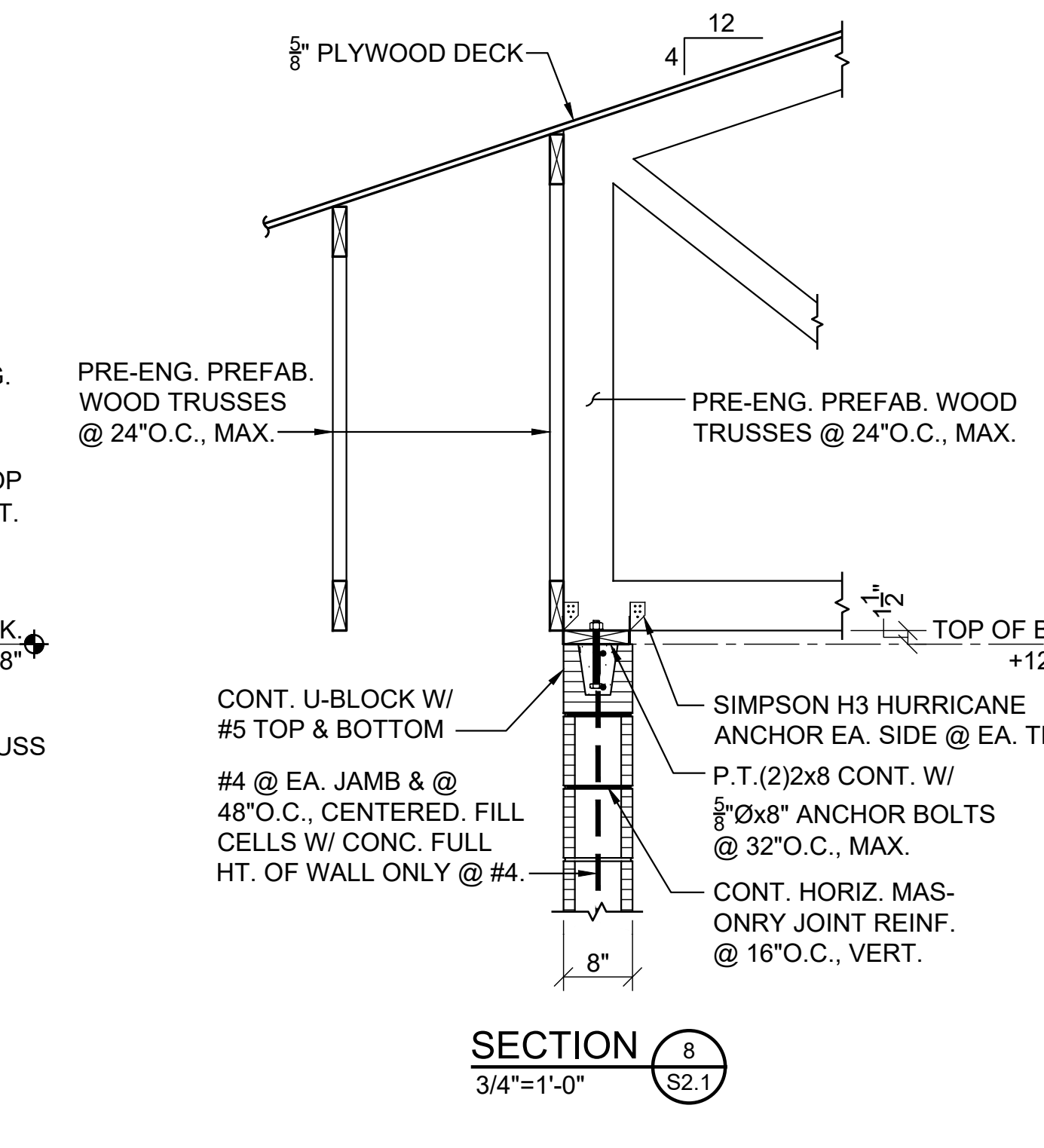
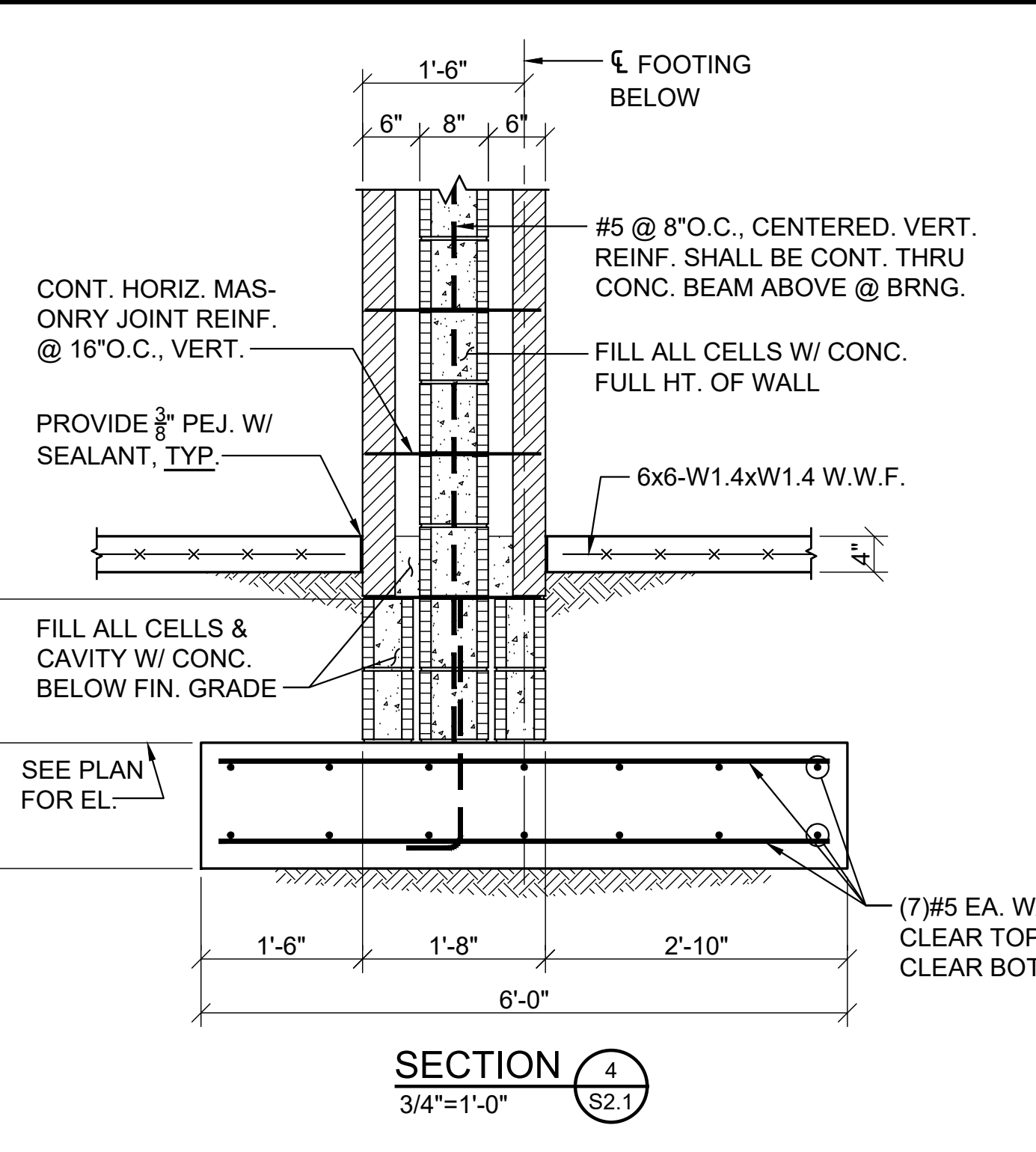


SHEET TITLE : FRAMING PLANS - ADMIN. BUILDING
MCKEE JOB # : 23-251
DRAWN BY : R. Casey
DATE : 05.18.2024
REVISED DATE :
REVISED DATE :
REVISED DATE :

SHEET NO. : S1.1

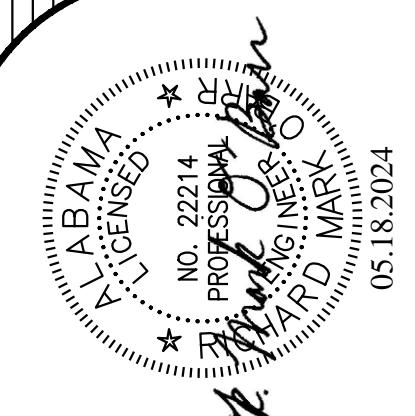


NOTE:
 PROVIDE 8" HIGH CONT. BOND BEAM W/ #5 TOP & BOTTOM @ HT.'S OF (+4'-8") & (+8'-8") TO TOP OF BOND BEAM. HOOK TOP & BOTTOM BOND BEAM REINF. 180° AROUND VERTICAL JAMB REINF. WHERE OCCURS, TYP.

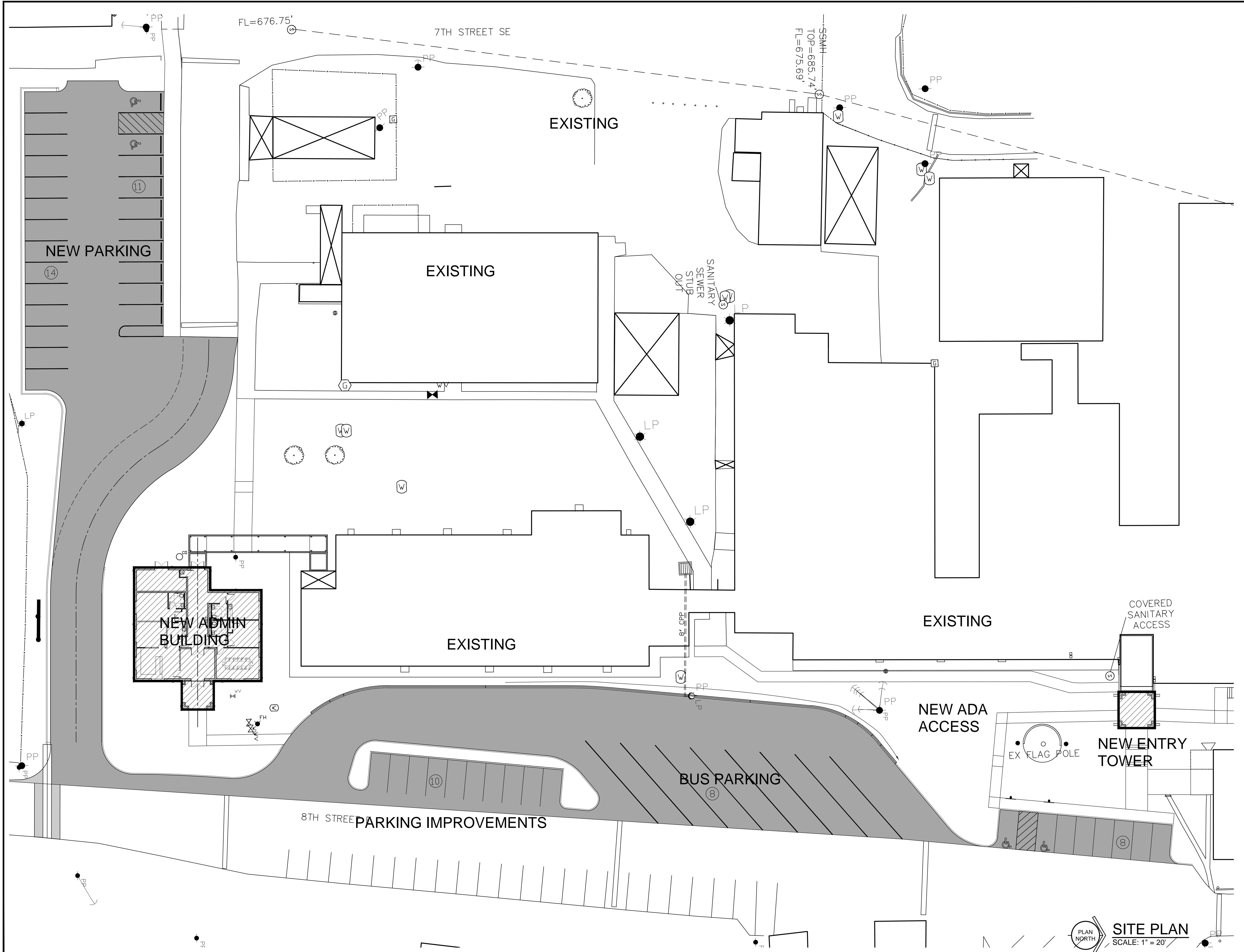


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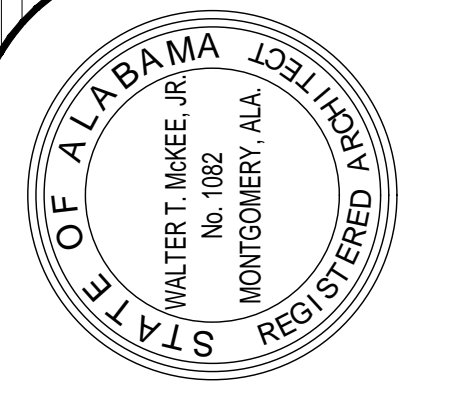


SHEET TITLE : SECTIONS AND DETAILS
 MCKEE JOB # : 23-251
 DRAWN BY : R. Casey
 DATE : 05.18.2024
 REVISED DATE :
 REVISED DATE :
 REVISED DATE :
 SHEET NO. : **S2.1**



NEW ADMIN BUILDING
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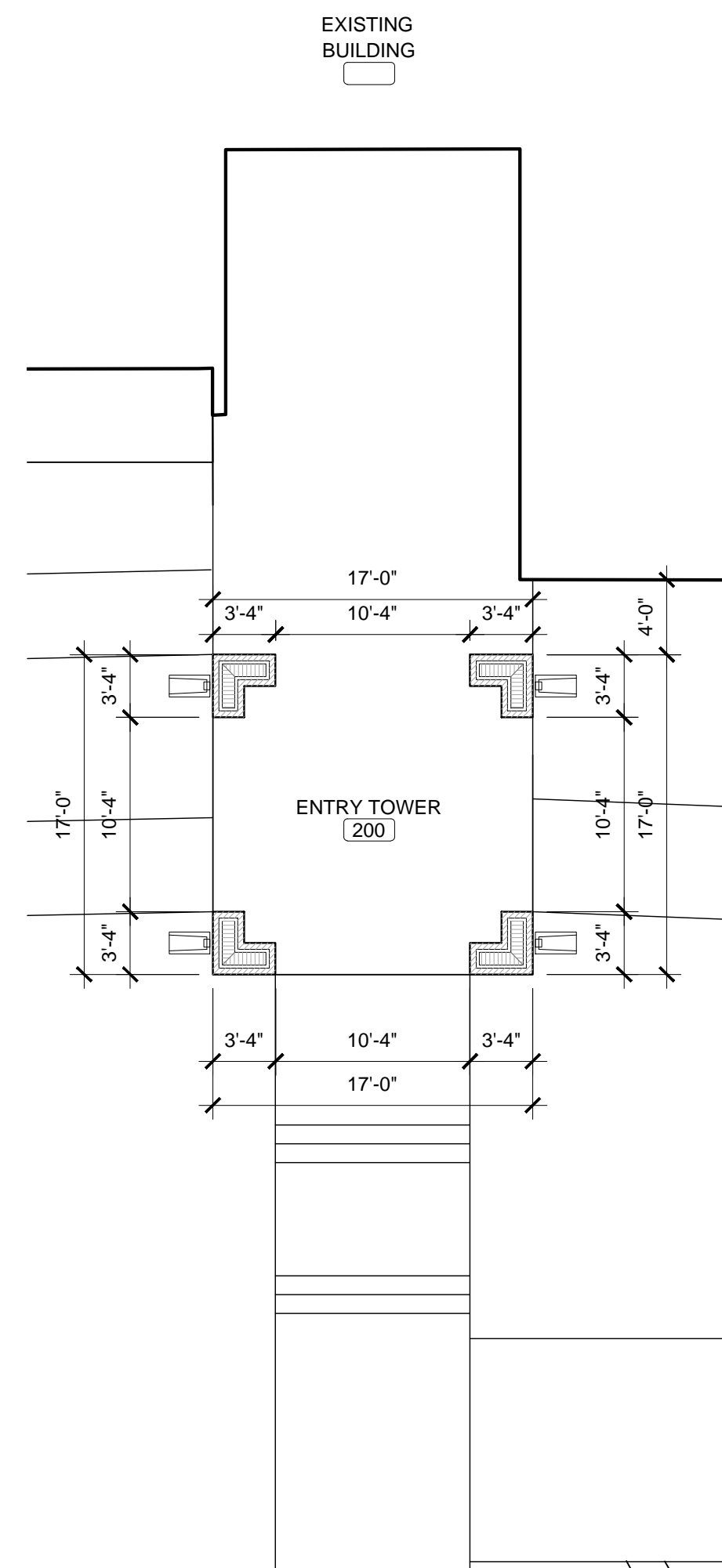
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SHEET TITLE : SITE PLAN
 MCKEE JOB # : 23-251
 DRAWN BY : JRB
 DATE : 05.18.2024
 REVISED DATE :
 REVISED DATE :
 REVISED DATE :

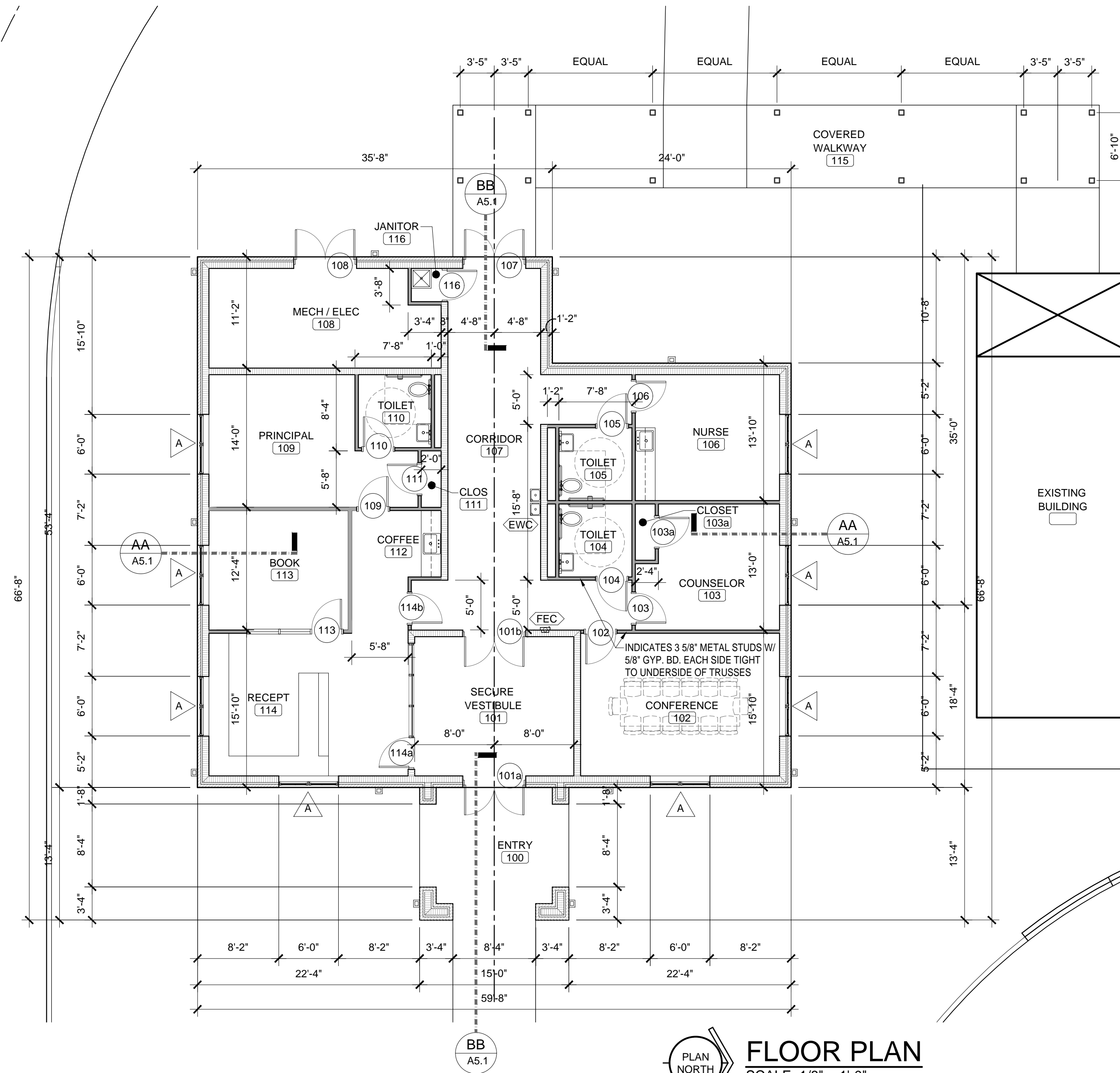
SITE PLAN
 SCALE: 1" = 20'
 PLAN NORTH

SHEET NO. : **A0**



PLAN NORTH
FLOOR PLAN
 SCALE: 1/8" = 1'-0"

| SYMBOL | DESCRIPTION |
|----------------|--|
| (A---) | SCHEDULED DOOR AND FRAME |
| (△) | SCHEDULED WINDOW UNIT |
| | SCHEDULED ROOM NAME AND NUMBER |
| (--- AX.X ---) | SECTION / DETAIL SYMBOL |
| (L) | SCHEDULED LOUVER TYPES |
| (X AX.X X) | INTERIOR ELEVATION SYMBOL |
| (EWC) | ELECTRIC WATER COOLER (SEE DETAIL A7) |
| (FEC) | FIRE EXTINGUISHER CABINET (SEE DETAIL A7) |
| (DS) | PREFINISHED METAL DOWNSPOUT |
| (CSB) | CONCRETE SPLASH BLOCK |
| (CU) | CONDENSING UNIT (SEE MECHANICAL) |
| (AHU) | AIR HANDLING UNIT (SEE MECHANICAL) |
| (CEP) | CONCRETE EQUIPMENT PAD (SEE DETAIL A7) |
| (RA) | RETURN AIR (SEE MECHANICAL) |
| (MCJ) | MASONRY CONTROL JOINT LOCATIONS |
| (HR1) | METAL HAND RAIL - PAINT (SEE DETAIL A7) |
| (HR2) | METAL HAND RAIL - PAINT (SEE DETAIL A7) |
| (W/D) | WASHER / DRYER |
| (PU) | PACKAGE UNIT (SEE MECHANICAL) |
| (PB) | PIPE BOLLARD - PAINT (SEE DETAIL A7) |
| (FD) | FLOOR DRAIN (SEE PLUMBING) |
| (WMP) | WALL MOUNTED PROJECTOR |
| (PSM) | CEILING RECESSED PROJECTION SCREEN - MOTORIZED |

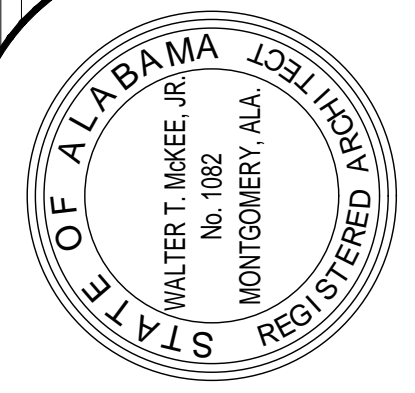


PLAN NORTH
FLOOR PLAN
 SCALE: 1/8" = 1'-0"

NEW ADMIN BUILDING
 AT
RED BAY HIGH SCHOOL

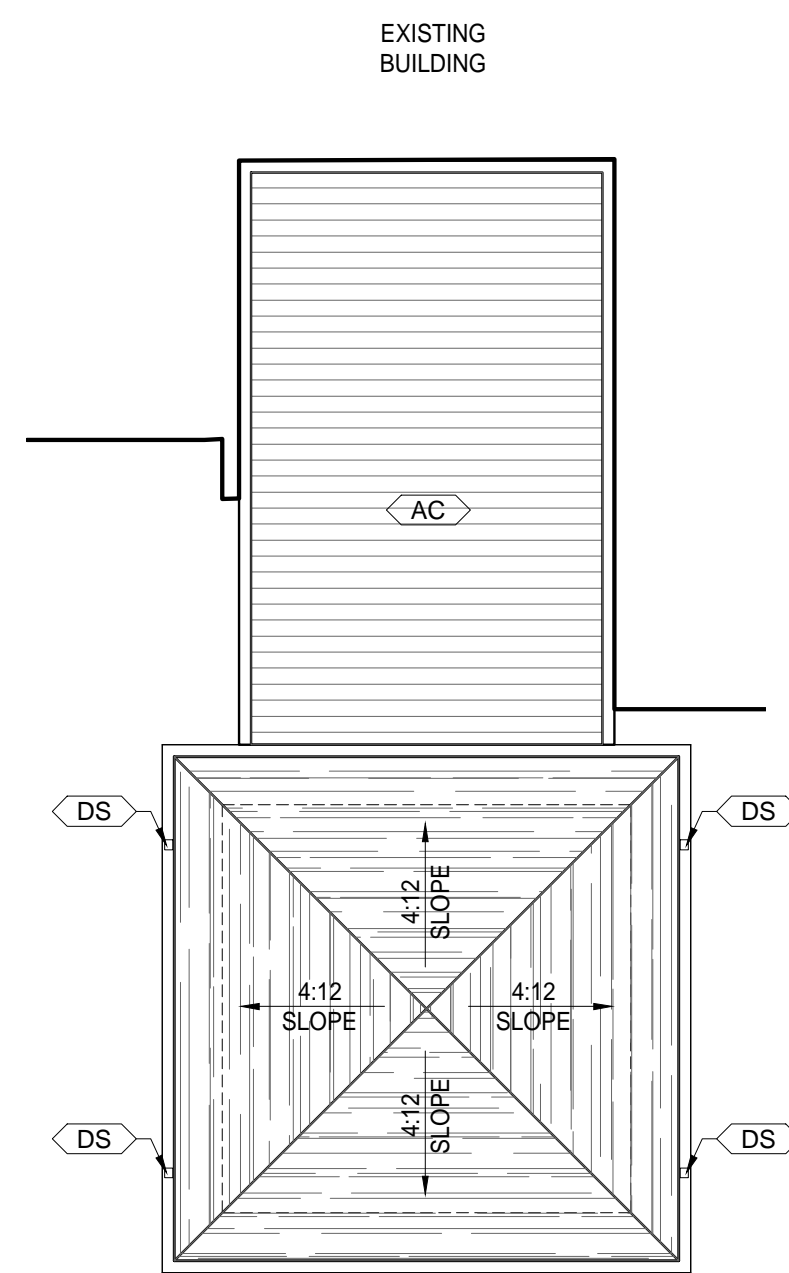
FOR THE
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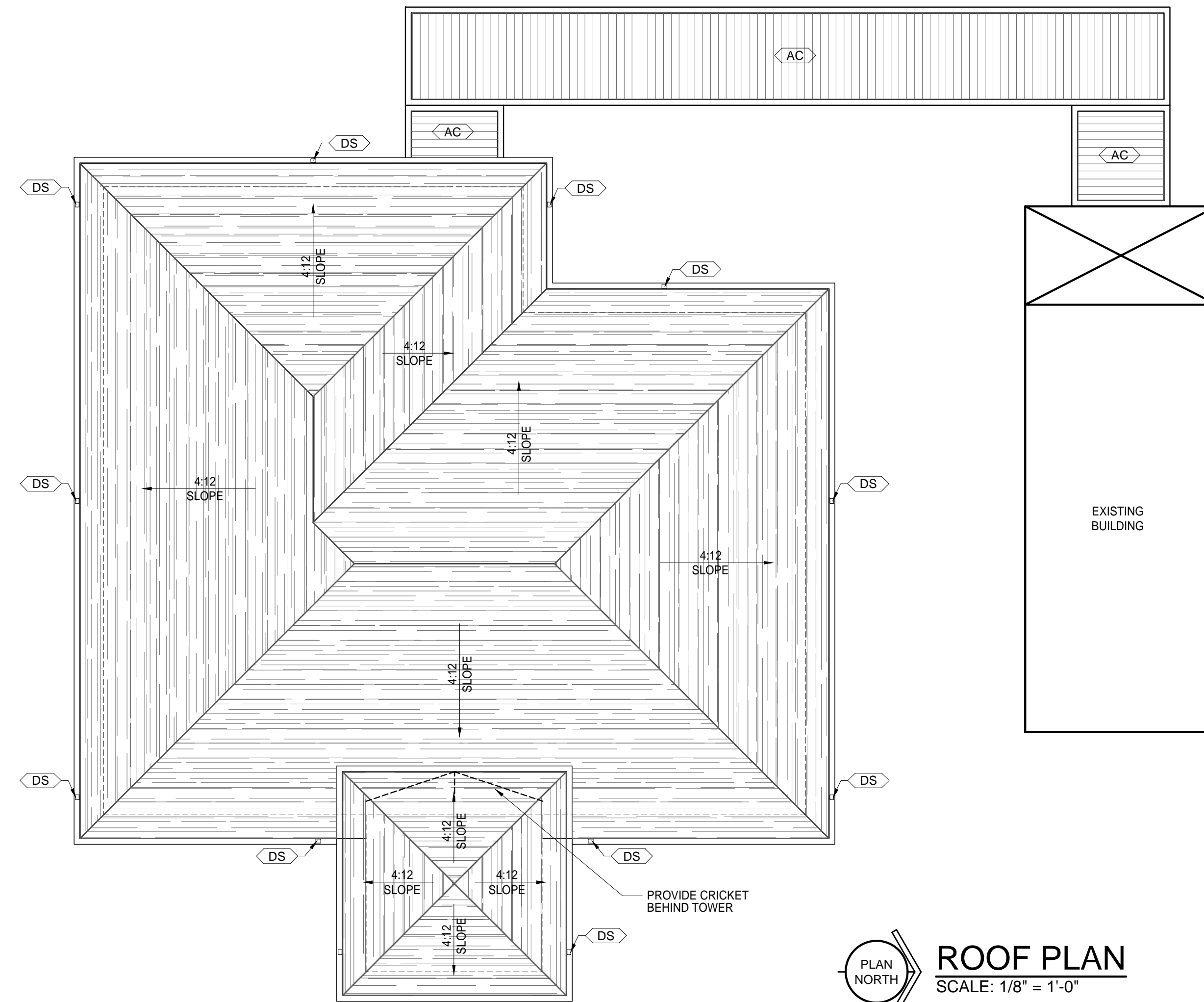


SHEET TITLE : FLOOR PLANS
 MCKEE JOB # : 23-251
 DRAWN BY : JRB
 DATE : 05.18.2024
 REVISED DATE :
 REVISED DATE :

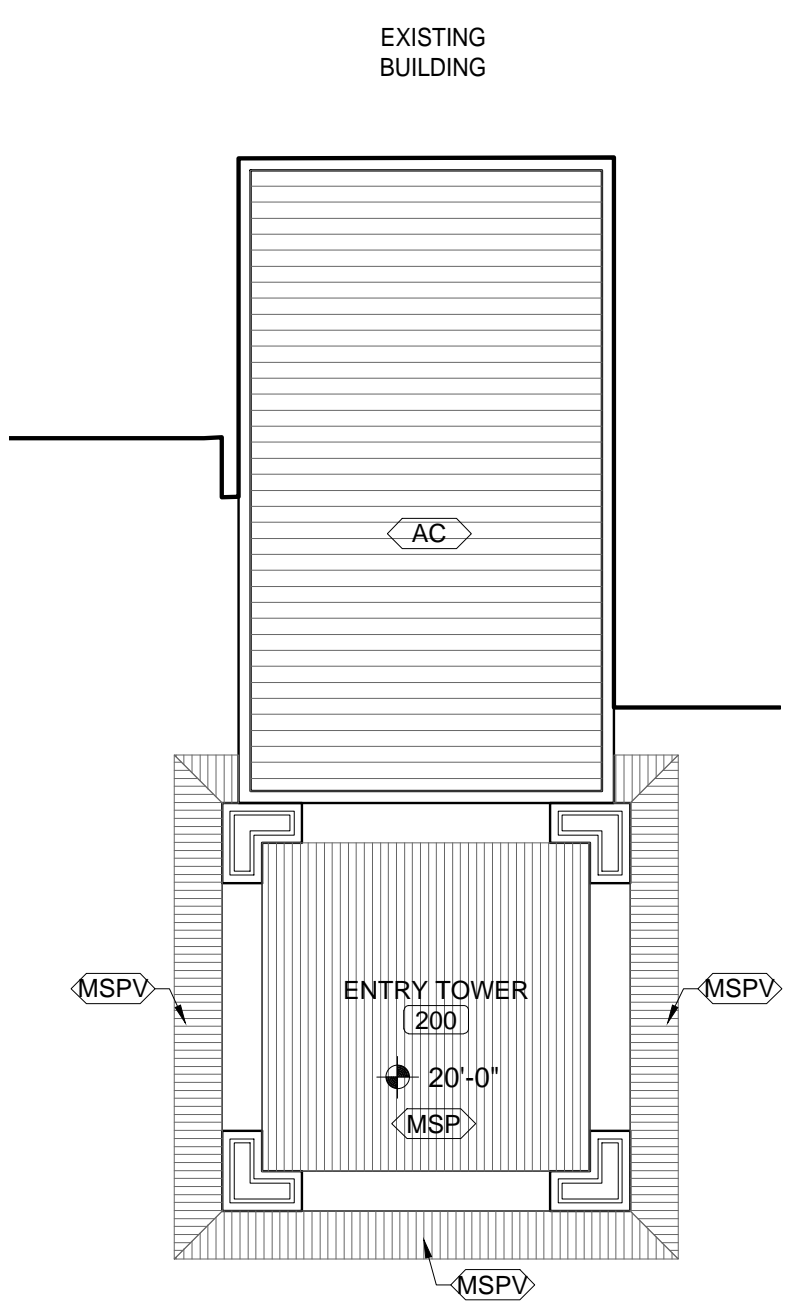
SHEET NO. : **A1.1**



PLAN NORTH
ROOF PLAN
 SCALE: 1/8" = 1'-0"



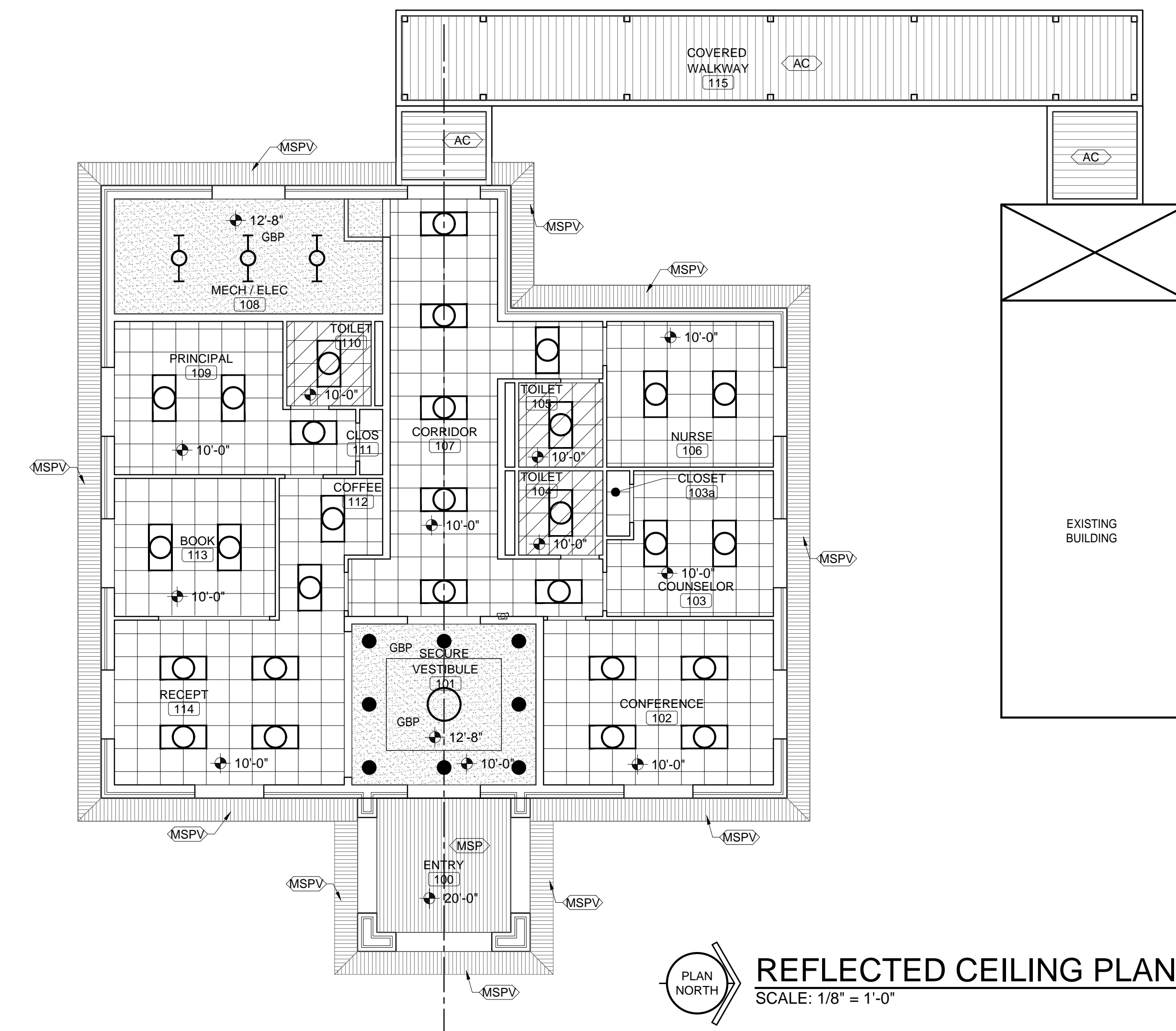
PLAN NORTH
ROOF PLAN
 SCALE: 1/8" = 1'-0"



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

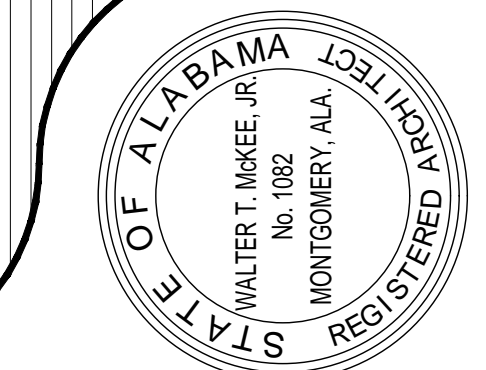
| REFLECTED CEILING PLAN LEGEND | |
|-------------------------------|--|
| CODE | DESCRIPTION |
| 8'-0" GBP | HEIGHT A.F.F. MATERIAL |
| ESP | EXPOSED STRUCTURE - PAINT |
| GBP | GYPSUM BOARD - PAINT |
| LAC | 2' X 2' LAY-IN ACOUSTICAL CEILING TILE W/ SMOOTH FACE |
| LVC | 2' X 2' LAY-IN VINYL CLAD CEILING TILE |
| MSPV | METAL SOFFIT PANELS - VENTED (SUSPENDED AS REQUIRED) |
| MSP | METAL SOFFIT PANELS - NON-VENTED (SUSPENDED AS REQUIRED) |
| AC | ALUMINUM CANOPY |

| SYMBOLS | |
|----------|--|
| SYMBOL | DESCRIPTION |
| [Symbol] | 2x4 RECESSED FLUORESCENT |
| [Symbol] | 2x4 RECESSED FLUORESCENT EMERGENCY FIXTURE |
| [Symbol] | LINEAR PENDANT HUNG FLUORESCENT |
| [Symbol] | 8" RECESSED COMPACT FLUORESCENT DOWNLIGHT |
| [Symbol] | FLUORESCENT STRIP |
| [Symbol] | THERMOPLASTIC LED EXIT SIGN, W/ DESIGNATES WALL MOUNTED FIXTURES |
| [Symbol] | HVAC SUPPLY AIR |
| [Symbol] | HVAC RETURN AIR |
| [Symbol] | HVAC BAROMETRIC DAMPER |
| [Symbol] | HVAC EXHAUST FAN |

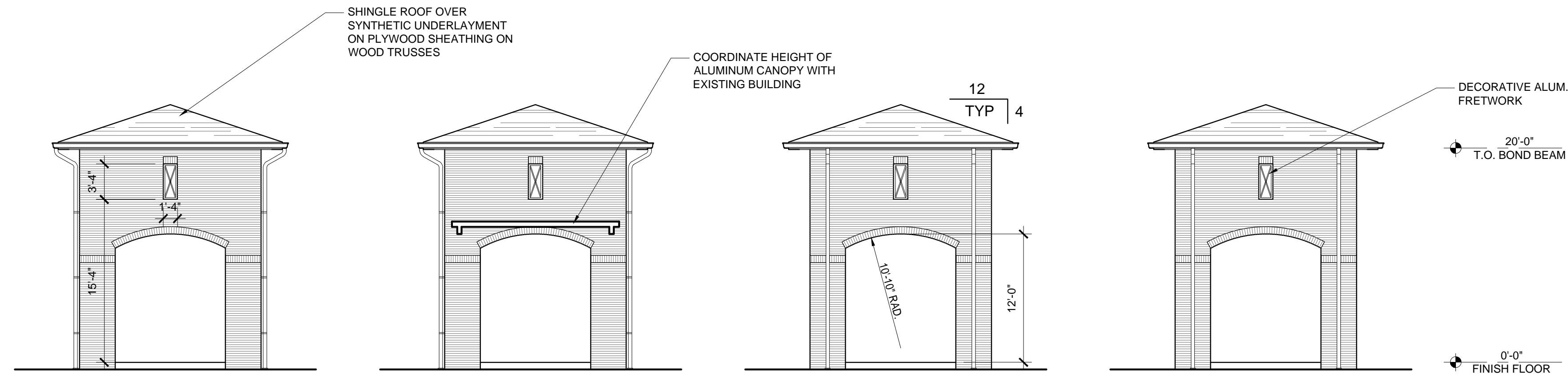


PLAN NORTH
REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"

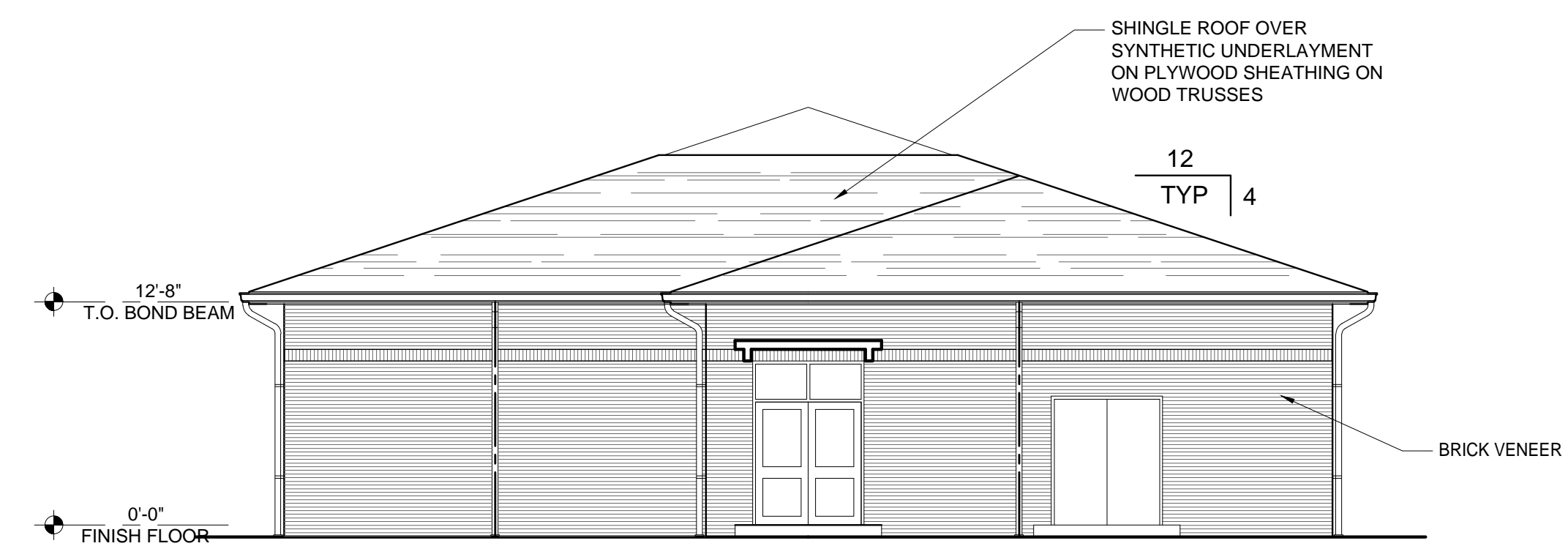
NEW ADMIN BUILDING
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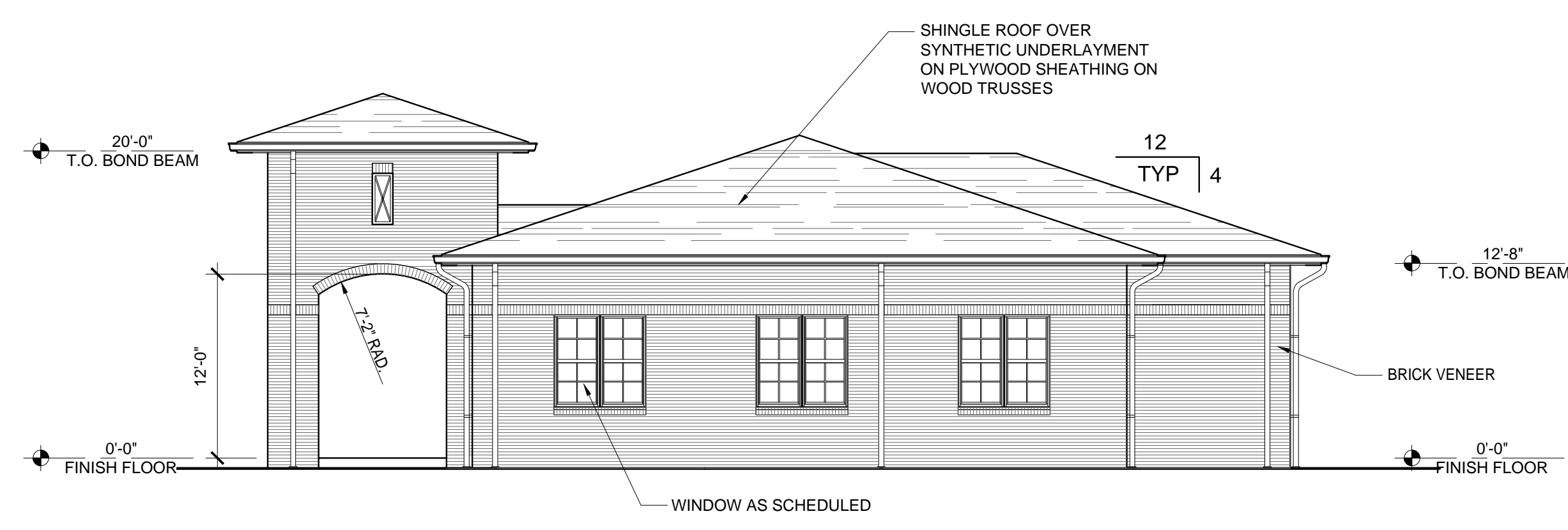
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 MCKEE JOB # : 23-251
 DRAWN BY : JRB
 DATE : 05.18.2024
 REVISED DATE :
 REVISED DATE :
 REVISED DATE :
 SHEET NO. : **A2.1**



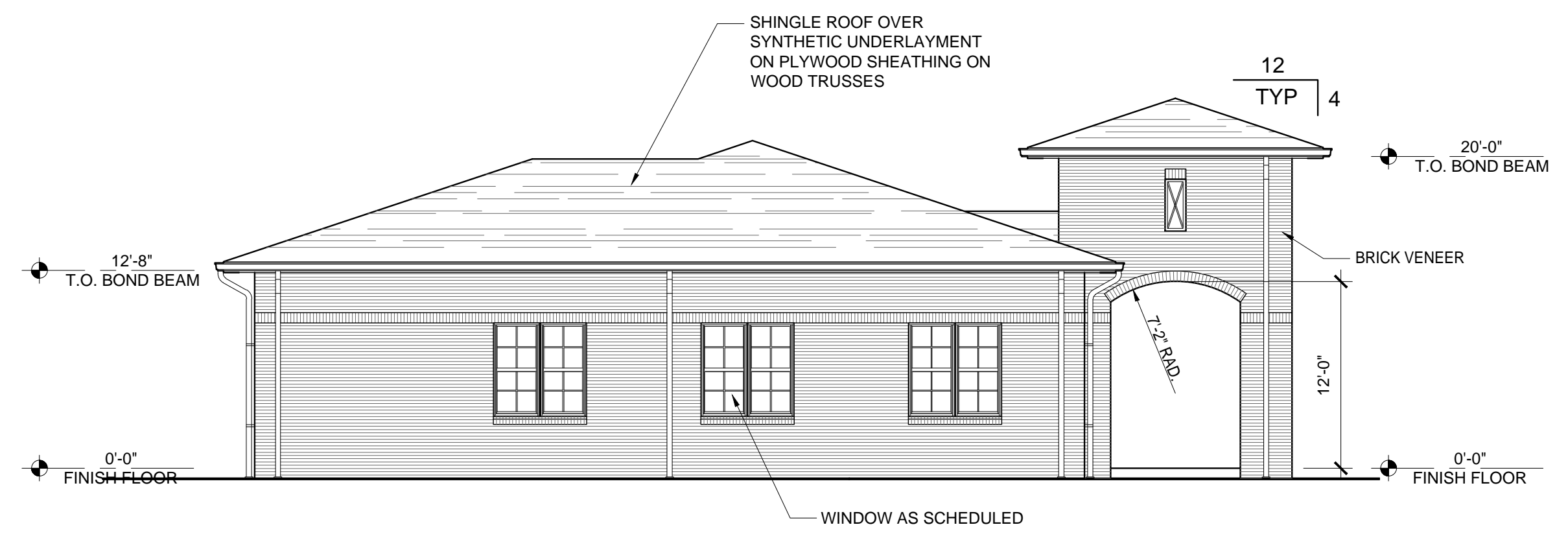
(H) **EAST ELEVATION** SCALE: 1/8" = 1'-0"
 (G) **WEST ELEVATION** SCALE: 1/8" = 1'-0"
 (F) **NORTH ELEVATION** SCALE: 1/8" = 1'-0"
 (E) **SOUTH ELEVATION** SCALE: 1/8" = 1'-0"



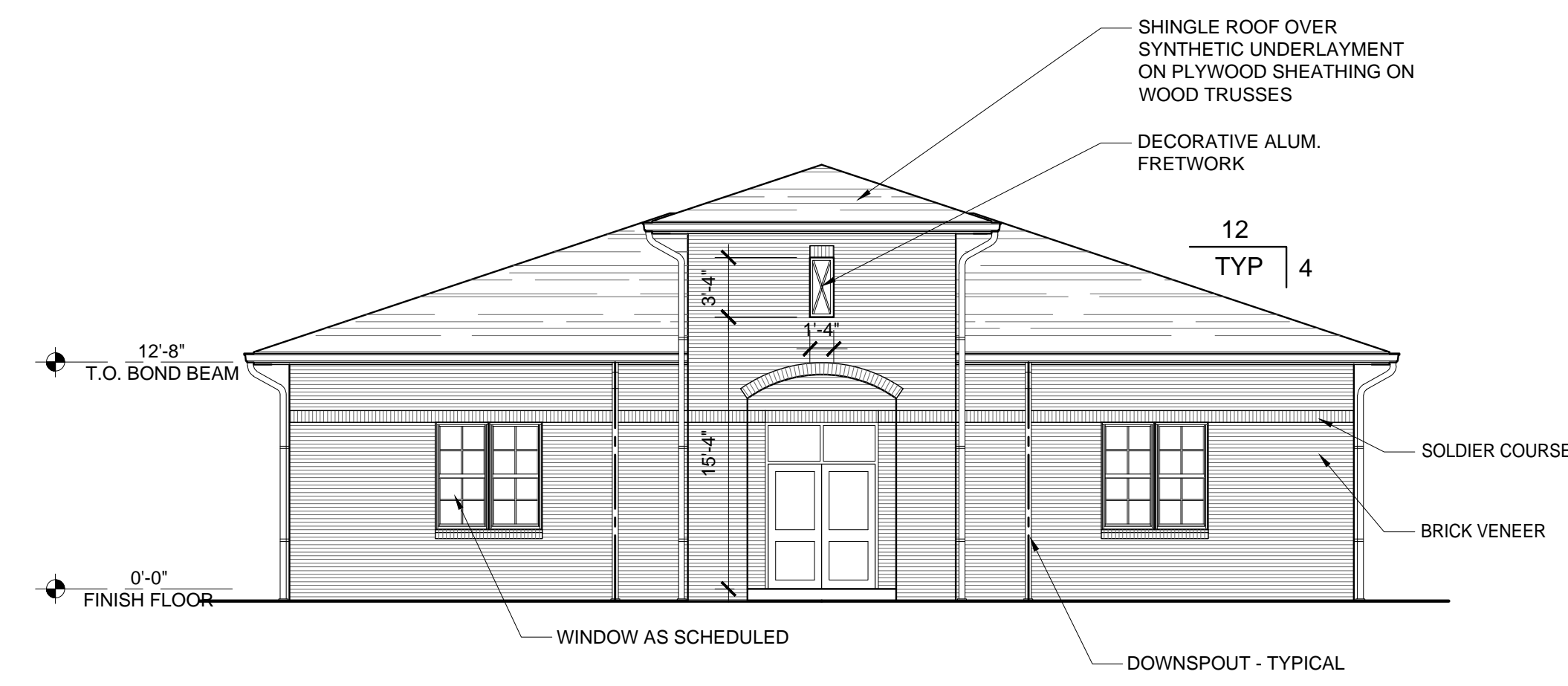
(D) **WEST EXTERIOR ELEVATION** SCALE: 1/8" = 1'-0"



(C) **NORTH EXTERIOR ELEVATION** SCALE: 1/8" = 1'-0"



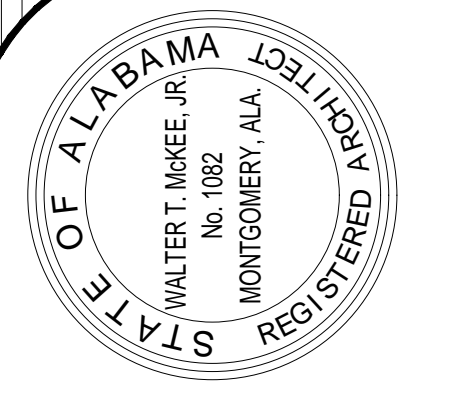
(B) **SOUTH EXTERIOR ELEVATION** SCALE: 1/8" = 1'-0"



(A) **EAST EXTERIOR ELEVATION** SCALE: 1/8" = 1'-0"

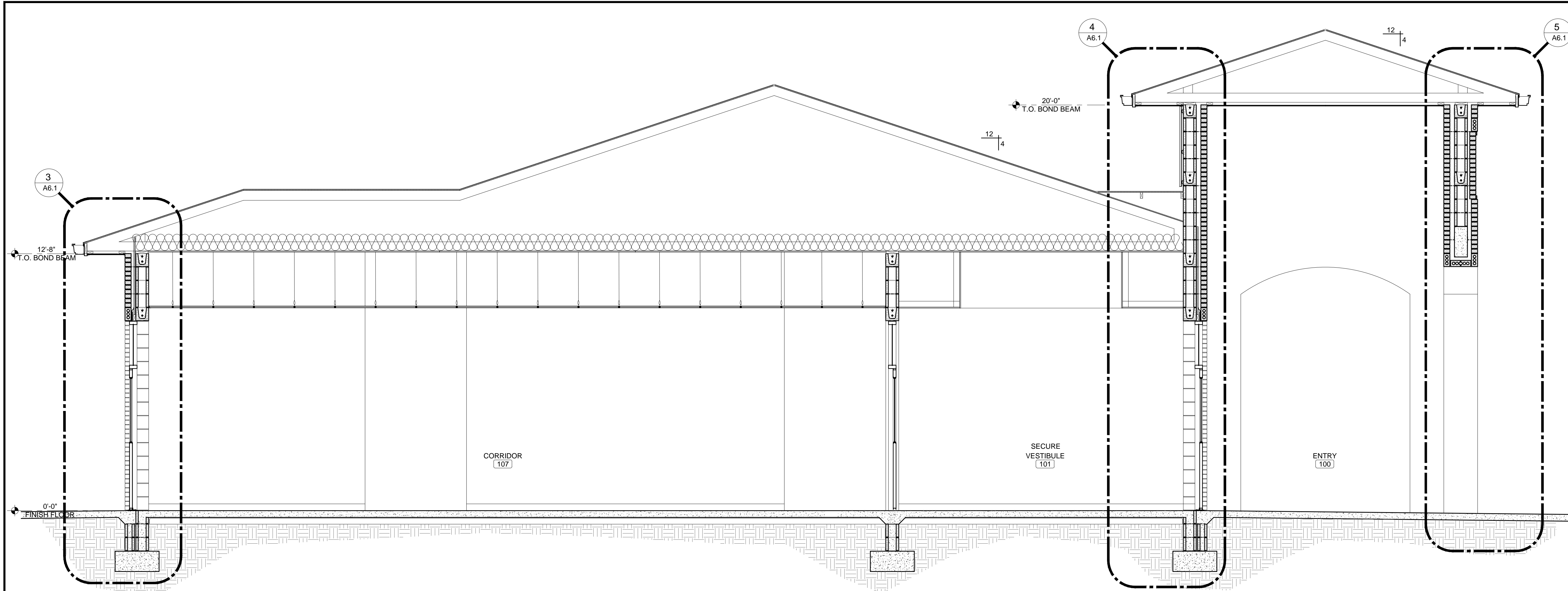
NEW ADMIN BUILDING
 AT
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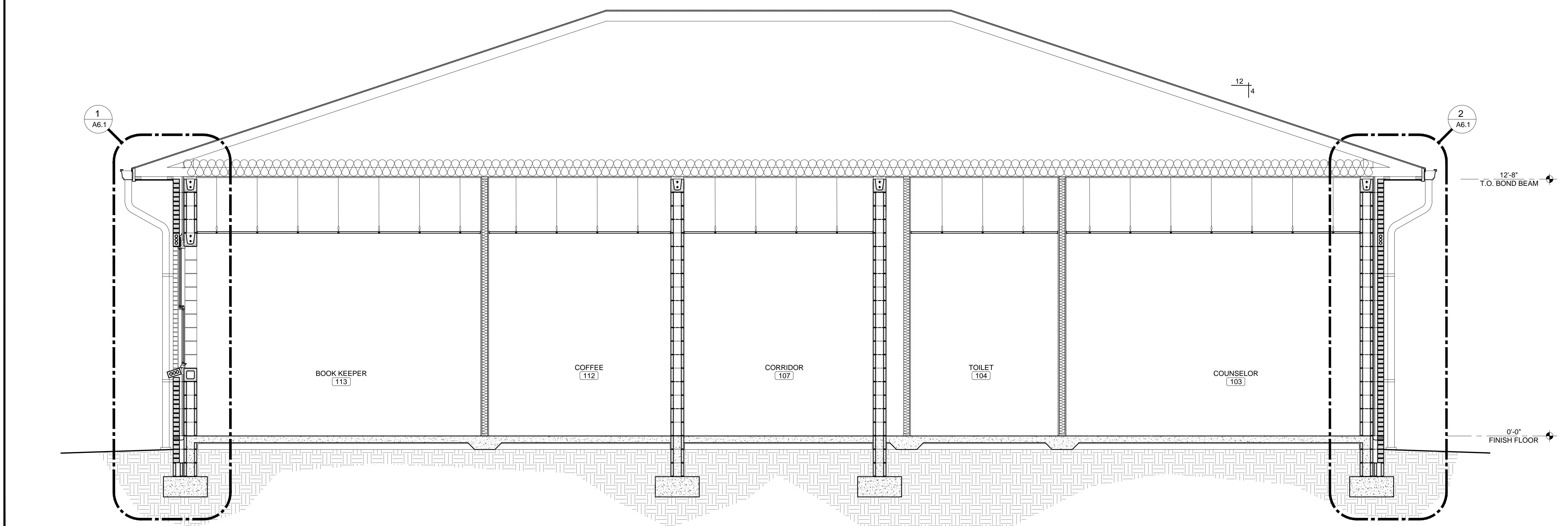


SHEET TITLE : EXTERIOR ELEVATIONS
 MCKEE JOB # : 23-251
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 DATE : 05.18.2024
 REVISED DATE :
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SHEET NO. : **A4.1**

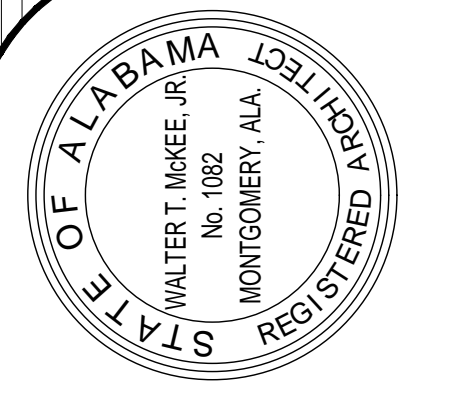


BB BUILDING SECTION
SCALE: 3/8" = 1'-0"



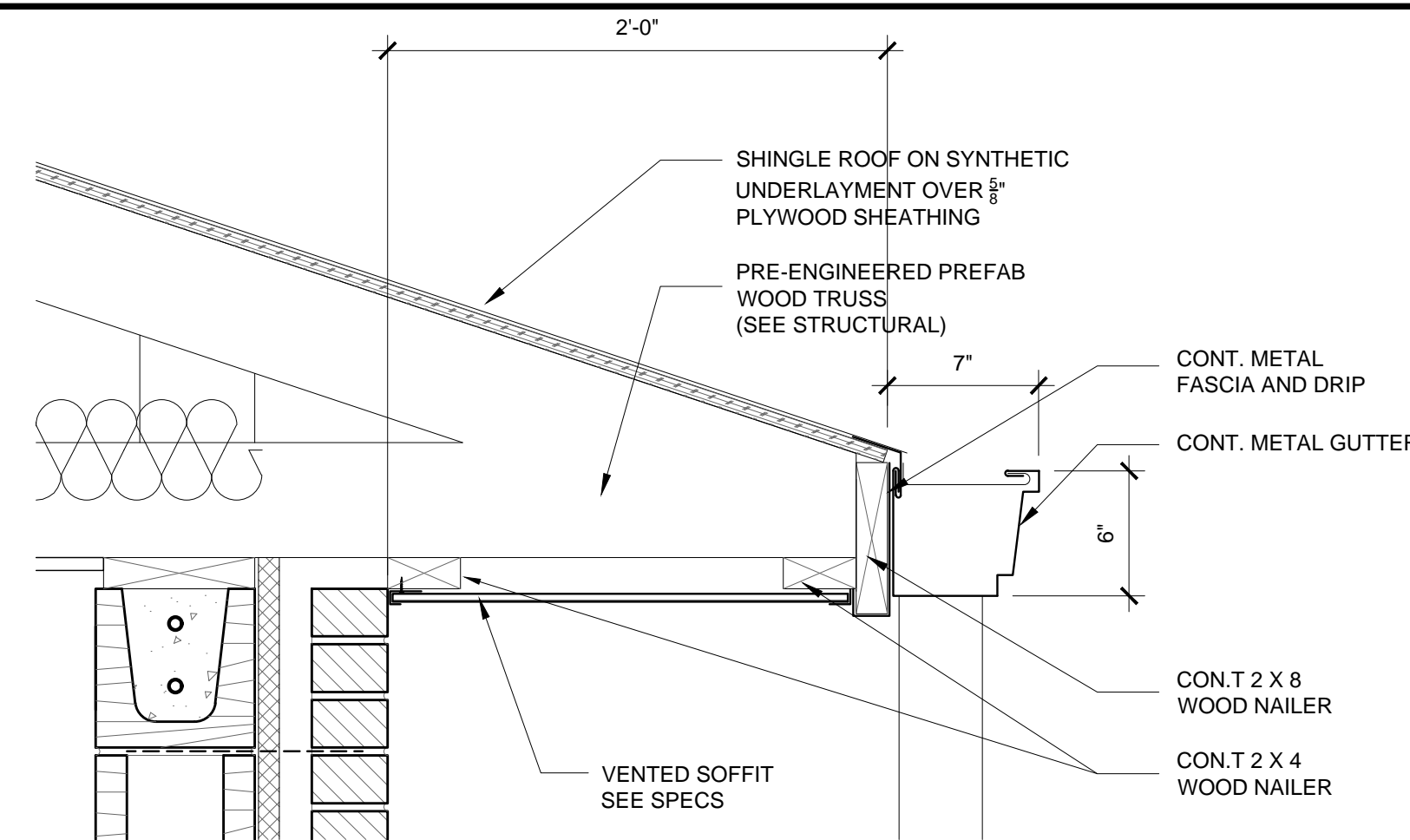
AA BUILDING SECTION
SCALE: 3/8" = 1'-0"

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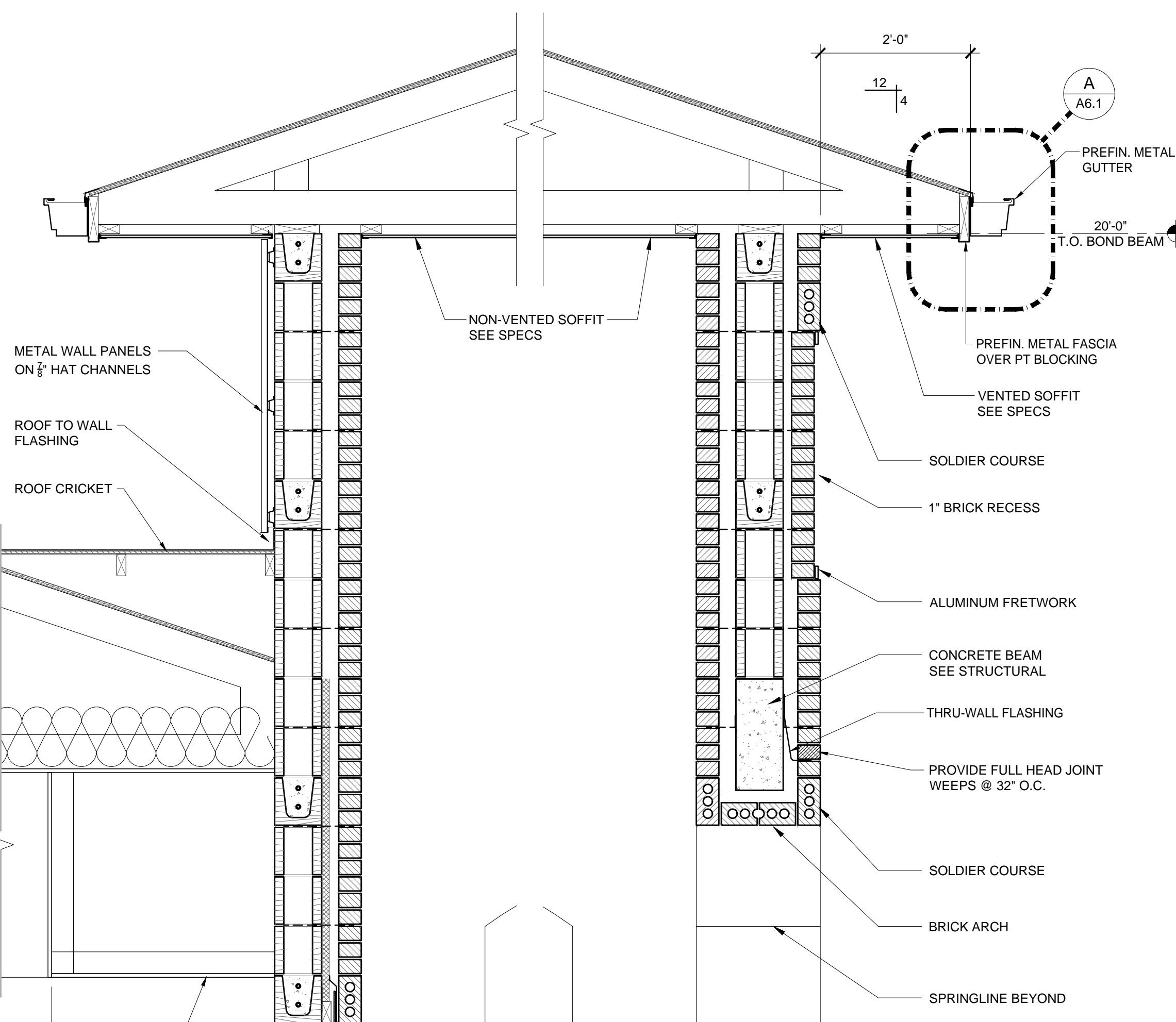


SHEET TITLE : BUILDING SECTIONS
 MCKEE JOB # : 23-251
 DRAWN BY : JRB
 DATE : 05.18.2024
 REVISED DATE :
 REVISED DATE :
 REVISED DATE :

SHEET NO. : **A5.1**



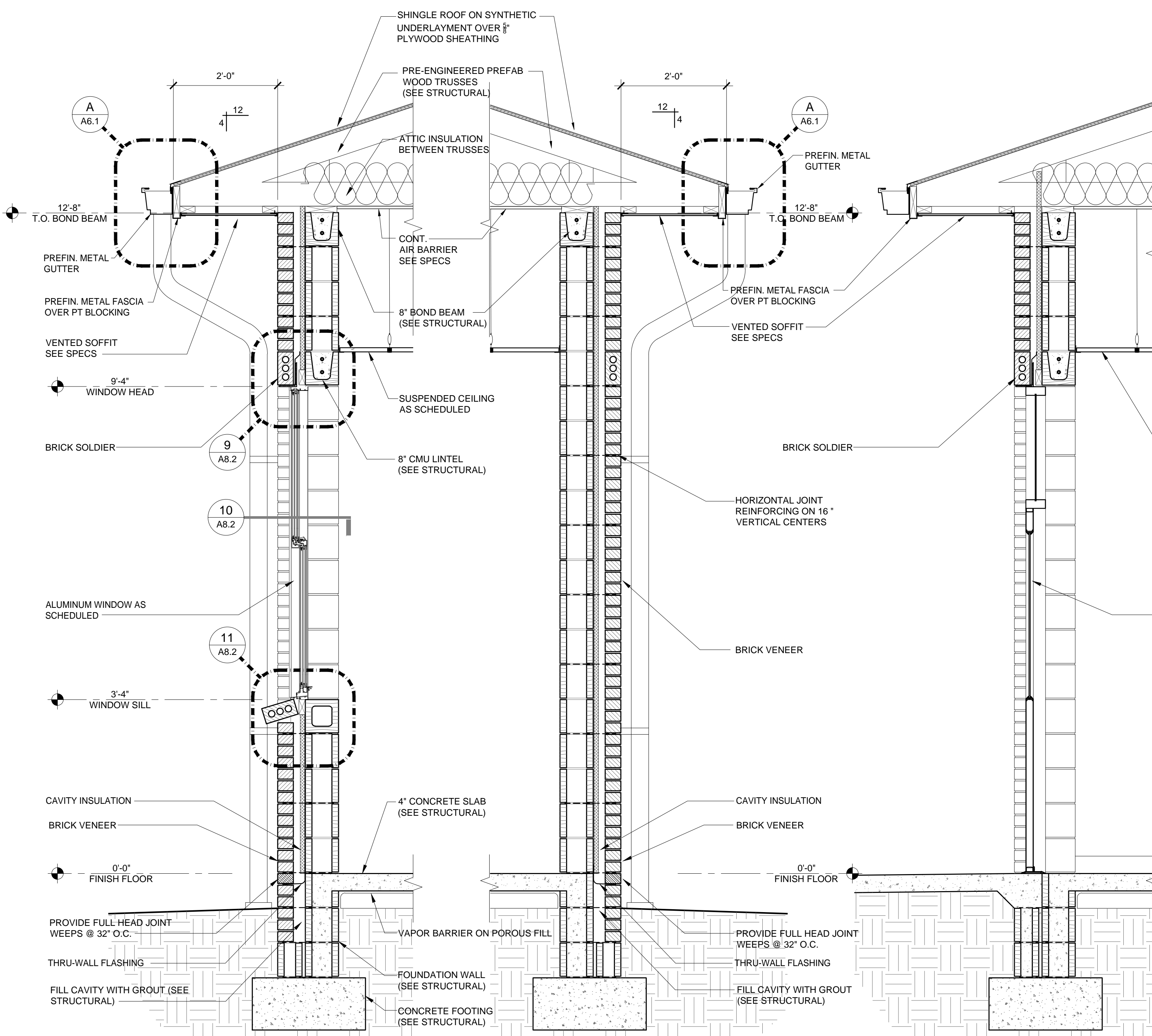
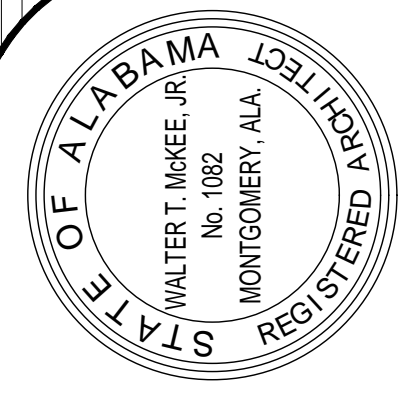
A SECTION DETAIL
SCALE: 1-1/2"=1'-0"



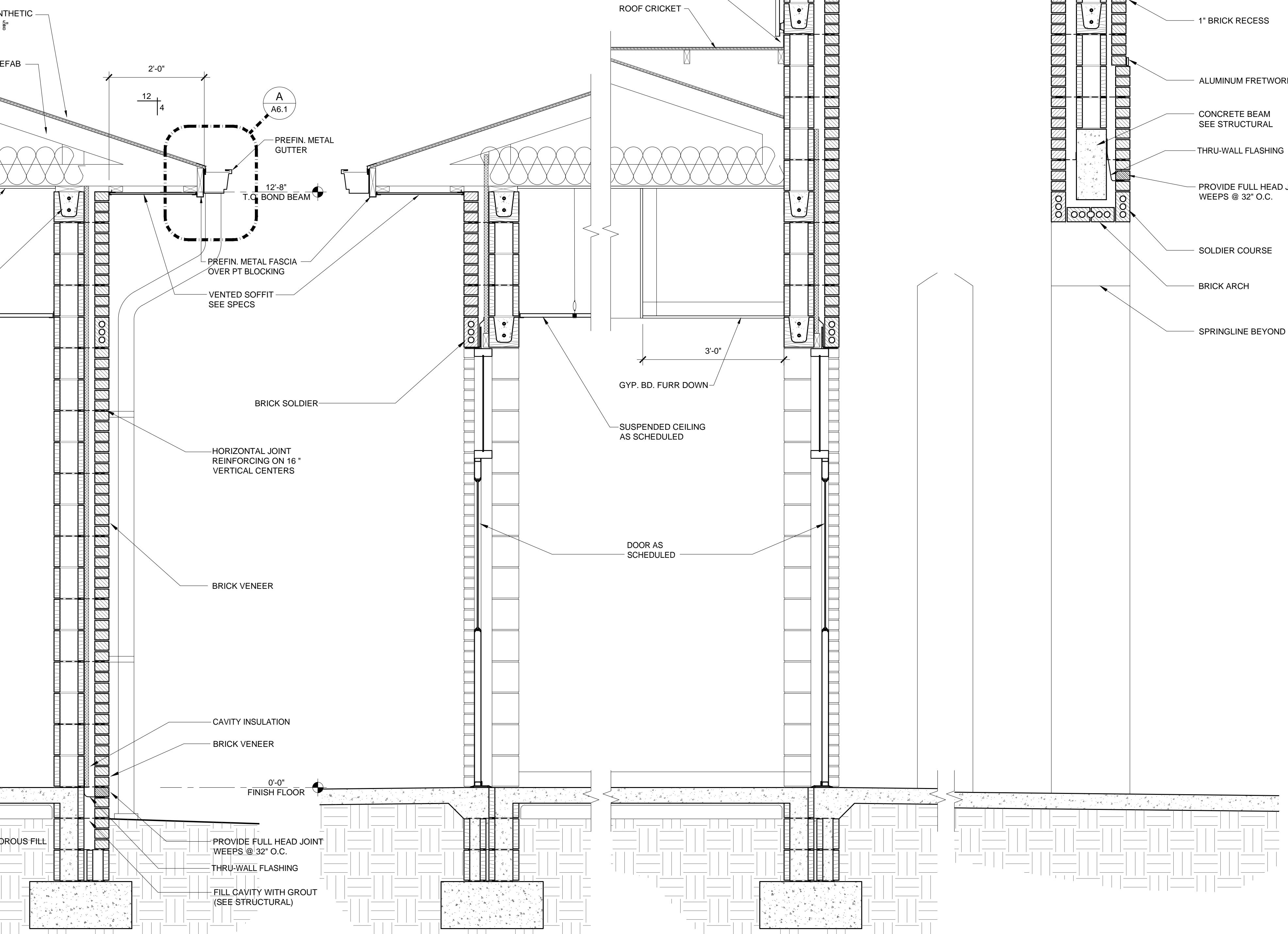
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1 WALL SECTION
SCALE: 3/4"=1'-0"



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

SHEET TITLE : WALL SECTIONS

MCKEE JOB # : 23-251

DRAWN BY : JRB

DATE : 05.18.2024

REVISED DATE :

REVISED DATE :

REVISED DATE :

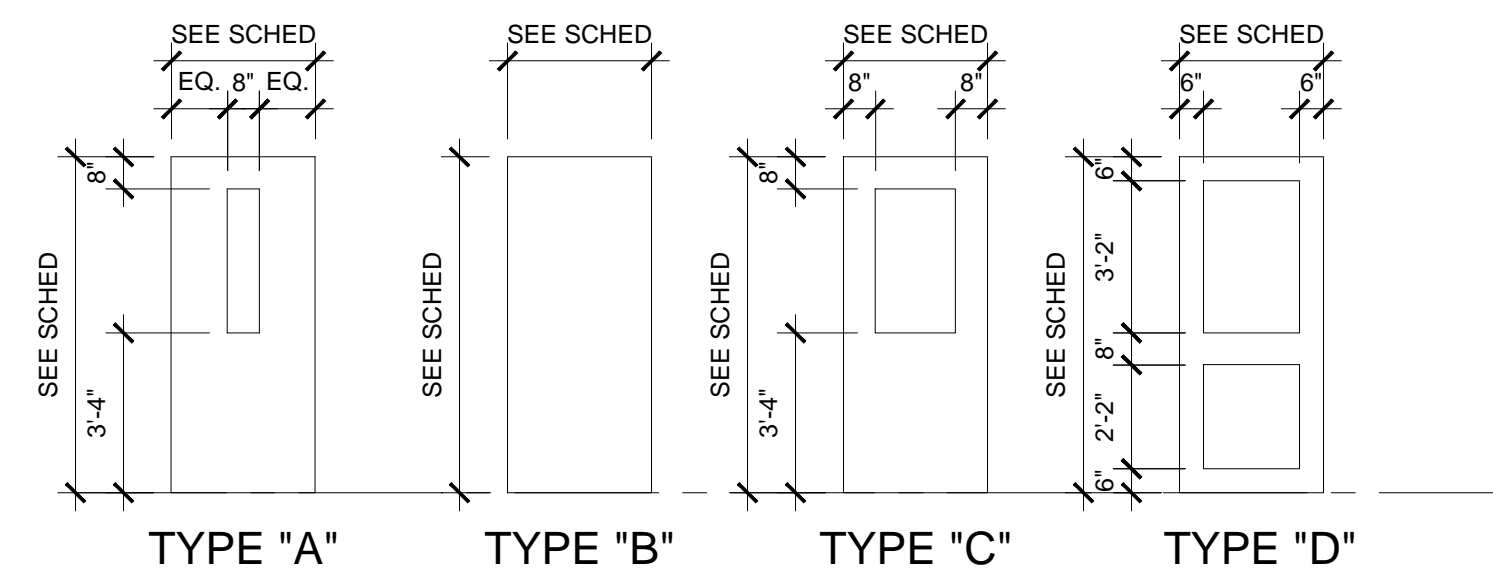
SHEET NO. : **A6.1**

ROOM FINISH SCHEDULE

| --- NO WORK REQUIRED GBP - GYPSUM BOARD - PAINT FRP - FIBERGLASS REINFORCED WALL PANELS | | | | | | | | | | | | CMUP - CONCRETE MASONRY UNIT - PAINT PT - PORCELAIN TILE LAC - 2'X2' LAY-IN ACOUSTICAL CEILING TILE LVC - 2'X2' LAY-IN VINYL CLAD CEILING TILE | | | | SC - SEALED CONCRETE LVT - LUXURY VINYL TILE EP - EPOXY PLY - EXPOSED PLYWOOD | | | | RB - RUBBER BASE C - CARPET | |
|---|-------------------------|-------|------|-------|-------|------|------|---------|--------|---------|--------|---|--|--|--|--|--|--|--|--------------------------------|--|
| ROOM # | ROOM NAME | FLOOR | BASE | WALLS | | | | CEILING | | WAINS. | HEIGHT | REMARKS | | | | | | | | | |
| | | | | NORTH | SOUTH | EAST | WEST | TYPE | HEIGHT | | | | | | | | | | | | |
| 100 | ENTRY | SC | --- | --- | --- | --- | --- | --- | --- | SEE RCP | --- | --- | | | | | | | | | |
| 101 | SECURE VESTIBULE | LVT | RB | CMUP | CMUP | CMUP | CMUP | GBP | --- | --- | --- | --- | | | | | | | | | |
| 102 | CONFERENCE | C | RB | CMUP | CMUP | CMUP | CMUP | GBP | LAC | --- | --- | --- | | | | | | | | | |
| 103 | COUNSELOR | LVT | RB | CMUP | GBP | GBP | GBP | LAC | --- | --- | --- | --- | | | | | | | | | |
| 103a | CLOSET | LVT | RB | CMUP | GBP | GBP | GBP | LAC | --- | --- | --- | --- | | | | | | | | | |
| 104 | TOILET | PT | PT | PT | PT | PT | PT | LVC | --- | --- | --- | --- | | | | | | | | | |
| 105 | TOILET | PT | PT | PT | PT | PT | PT | LVC | --- | --- | --- | --- | | | | | | | | | |
| 106 | NURSE | LVT | RB | CMUP | GBP | GBP | CMUP | LAC | --- | --- | --- | --- | | | | | | | | | |
| 107 | CORRIDOR | LVT | RB | CMUP | CMUP | CMUP | CMUP | LAC | --- | --- | --- | --- | | | | | | | | | |
| 108 | MECHANICAL / ELECTRICAL | SC | --- | CMUP | CMUP | CMUP | CMUP | GBP | --- | --- | --- | --- | | | | | | | | | |
| 109 | PRINCIPAL | C | RB | GBP | CMUP | GBP | GBP | LAC | --- | --- | --- | --- | | | | | | | | | |
| 110 | TOILET | PT | PT | PT | PT | PT | PT | LVC | --- | --- | --- | --- | | | | | | | | | |
| 111 | CLOSET | C | RB | CMUP | GBP | GBP | GBP | LAC | --- | --- | --- | --- | | | | | | | | | |
| 112 | COFFEE | LVT | RB | CMUP | GBP | GBP | GBP | LAC | --- | --- | --- | --- | | | | | | | | | |
| 113 | BOOK KEEPER | C | RB | GBP | CMUP | GBP | GBP | LAC | --- | --- | --- | --- | | | | | | | | | |
| 114 | RECEPTION | LVT | RB | CMUP | CMUP | CMUP | GBP | LAC | --- | --- | --- | --- | | | | | | | | | |
| 115 | COVERED WALKWAY | SC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | | | | | | | | |
| 116 | JANITOR | SC | RB | CMUP | FRP | FRP | CMUP | --- | --- | --- | --- | --- | | | | | | | | | |
| 200 | ENTRY | SC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | | | | | | | | |

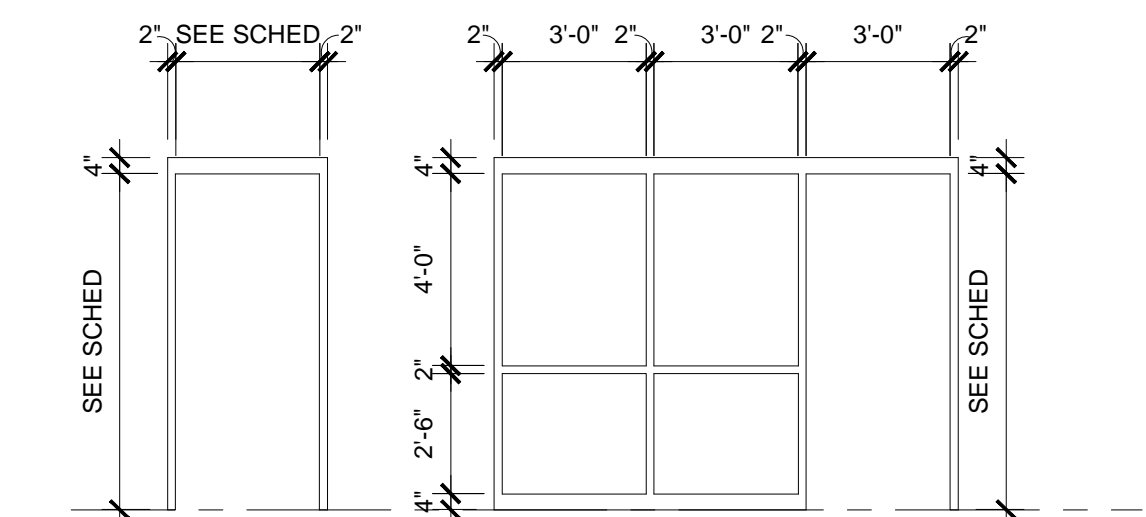
DOOR SCHEDULE

| DOOR # | WIDTH | HEIGHT | THICKNESS | MATERIALS | DOOR TYPE | DOOR FINISH | FRAME TYPE | FRAME FINISH | LABEL | DETAILS | | SIGNAGE | REMARKS |
|--------|------------|--------|-----------|-----------------------|-----------|-------------|------------|--------------|-------|---------|------|-------------------------|---------|
| | | | | | | | | | | HEAD | JAMB | | |
| 101a | PAIR 3'-0" | 7'-0" | 1 3/4" | ALUMINUM STOREFRONT | D | FACTORY | SF2 | FACTORY | --- | --- | --- | --- | --- |
| 101b | PAIR 3'-0" | 7'-0" | 1 3/4" | ALUMINUM STOREFRONT | D | FACTORY | SF2 | FACTORY | --- | --- | --- | --- | --- |
| 102 | 3'-0" | 7'-0" | 1 3/4" | FLUSH WOOD SOLID CORE | A | FACTORY | HM1 | PAINT | --- | --- | --- | CONFERENCE | --- |
| 103 | 3'-0" | 7'-0" | 1 3/4" | FLUSH WOOD SOLID CORE | A | FACTORY | HM1 | PAINT | --- | --- | --- | COUNSELOR | --- |
| 103a | 3'-0" | 7'-0" | 1 3/4" | FLUSH WOOD SOLID CORE | B | FACTORY | HM1 | PAINT | --- | --- | --- | --- | --- |
| 104 | 3'-0" | 7'-0" | 1 3/4" | FLUSH WOOD SOLID CORE | B | FACTORY | HM1 | PAINT | --- | --- | --- | TOILET | --- |
| 105 | 3'-0" | 7'-0" | 1 3/4" | FLUSH WOOD SOLID CORE | B | FACTORY | HM1 | PAINT | --- | --- | --- | TOILET | --- |
| 106 | 3'-0" | 7'-0" | 1 3/4" | FLUSH WOOD SOLID CORE | A | FACTORY | HM1 | PAINT | --- | --- | --- | NURSE | --- |
| 107 | PAIR 3'-0" | 7'-0" | 1 3/4" | ALUMINUM STOREFRONT | D | FACTORY | SF2 | FACTORY | --- | --- | --- | --- | --- |
| 108 | PAIR 3'-0" | 7'-2" | 1 3/4" | FRP | B | FACTORY | SF1 | FACTORY | --- | --- | --- | MECHANICAL / ELECTRICAL | --- |
| 109 | 3'-0" | 7'-0" | 1 3/4" | FLUSH WOOD SOLID CORE | A | FACTORY | HM1 | PAINT | --- | --- | --- | PRINCIPAL | --- |
| 110 | 3'-0" | 7'-0" | 1 3/4" | FLUSH WOOD SOLID CORE | B | FACTORY | HM1 | PAINT | --- | --- | --- | TOILET | --- |
| 111 | 3'-0" | 7'-0" | 1 3/4" | FLUSH WOOD SOLID CORE | B | FACTORY | HM1 | PAINT | --- | --- | --- | CLOSET | --- |
| 113 | 3'-0" | 7'-0" | 1 3/4" | FLUSH WOOD SOLID CORE | C | FACTORY | HM2 | PAINT | --- | --- | --- | BOOK KEEPER | --- |
| 114a | 3'-0" | 7'-0" | 1 3/4" | ALUMINUM STOREFRONT | D | FACTORY | SF3 | FACTORY | --- | --- | --- | RECEPTION | --- |
| 114b | 3'-0" | 7'-0" | 1 3/4" | FLUSH WOOD SOLID CORE | C | FACTORY | HM1 | PAINT | --- | --- | --- | RECEPTION | --- |
| 116 | 3'-0" | 7'-0" | 1 3/4" | FLUSH WOOD SOLID CORE | B | FACTORY | HM1 | PAINT | --- | --- | --- | JANITOR | --- |



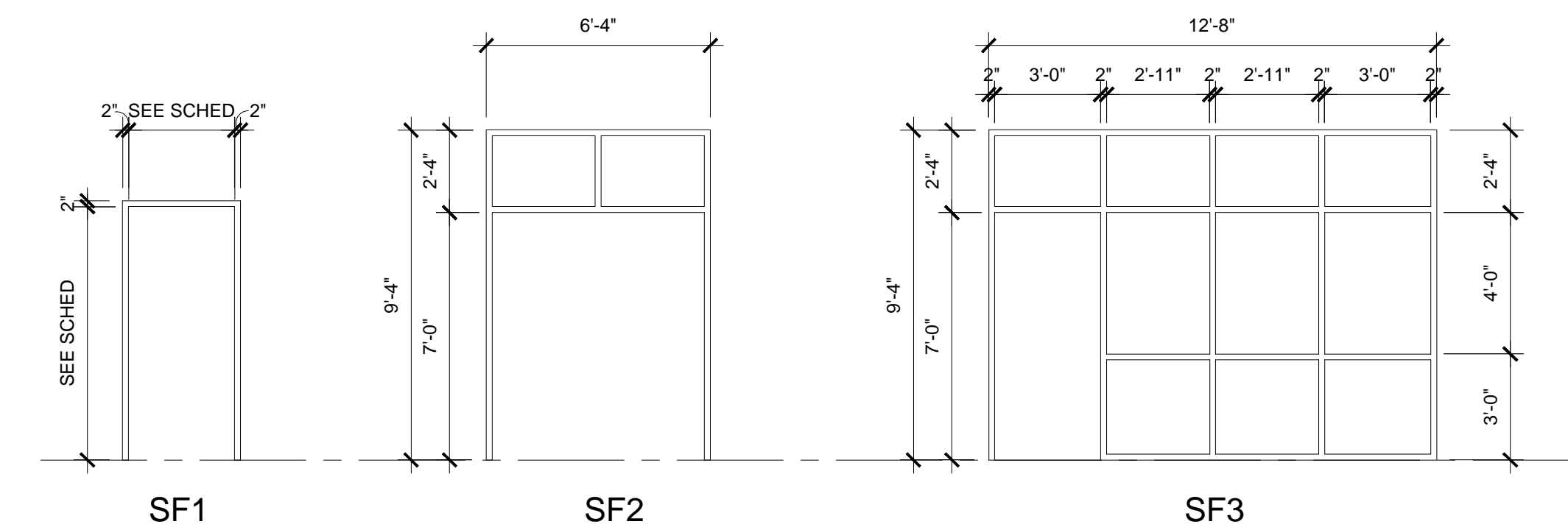
TYPICAL DOOR TYPES

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



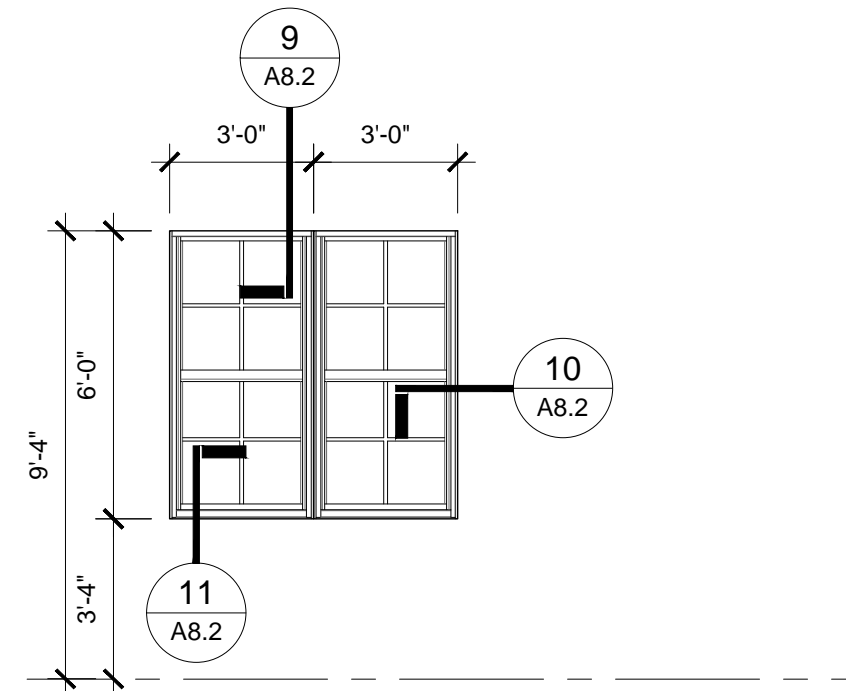
HOLLOW METAL FRAME TYPES

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



ALUMINUM STOREFRONT FRAME TYPES

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



TYPICAL WINDOW TYPES

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

SIGNAGE NOTES:

FURNISH INDIVIDUAL PLASTIC LAMINATE SIGNAGE SYSTEM WITH ROOM OR OCCUPANT'S NAME AND ROOM NUMBER. FINAL WORDING TO BE FURNISHED WHEN SHOP DRAWINGS FOR SIGNAGE SYSTEM ARE SUBMITTED.

LABELLED DOOR AND FRAME NOTE:

HOURLY RATING DESIGNATIONS AND / OR ALPHABETICAL LETTER DESIGNATIONS ARE GIVEN WHERE PROTECTED OPENINGS ARE REQUIRED IN RATED PARTITIONS. THESE OPENING PROTECTIVE ASSEMBLIES SHALL INCLUDE THE FRAME, DOOR, HARDWARE, CLOSING DEVICE, SILL AND ANCHORAGE. CONTRACTOR SHALL SEE THAT NO COMPONENT IS OMITTED OR SUBSTANDARD QUALITY USED SUCH THAT THE EFFECTIVENESS OF THE ENTIRE OPENING AS A FIRE OR SMOKE BARRIER MIGHT BE JEOPARDIZED. DOORS AND FRAMES SHALL BE FURNISHED WITH UNDERWRITER'S LABORATORIES OR WARNOCKHERSEY LABELS WITH APPROPRIATE FIRE RESISTANCE RATINGS FOR THE CLASS OF OPENING SCHEDULED. SUBJECT TO DOOR MANUFACTURER'S PROCEDURAL LIMITATIONS, LABELS SHOULD BEAR THE FOLLOWING NOTATION: "FIRE DOOR, TO BE EQUIPPED WITH FIRE EXIT HARDWARE"

SIGN MOUNTING HEIGHT

703.4.1 HEIGHT ABOVE FINISH FLOOR OF GROUND
TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES (1220 mm) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES (1525 mm) MAXIMUM ABOVE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.
EXCEPTION: BRAILLE PROVIDED ON ELEVATOR CAR CONTROLS SHALL BE SEPARATED 3/8 INCHES (4.8 mm) MINIMUM AND SHALL BE LOCATED EITHER DIRECTLY BELOW OR ADJACENT TO THE CORRESPONDING RAISED CHARACTERS OR SYMBOLS.

703.4.2 LOCATION

WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT THE CLEAR FLOOR SPACE OF 18 INCHES (455 mm) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSEST POSITION AND 45 DEGREE OPEN POSITION.
EXCEPTION: SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.

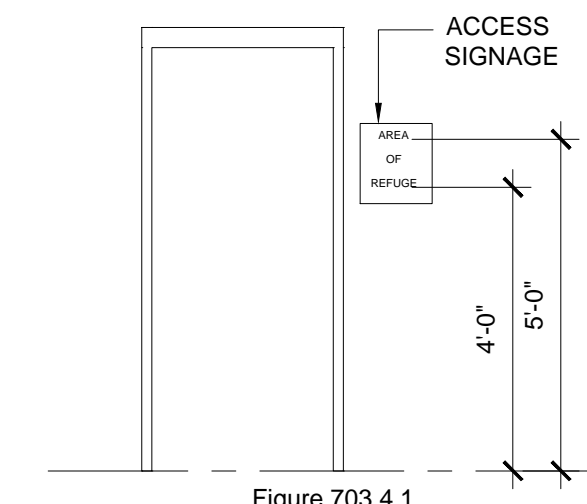


Figure 703.4.1
Height of Tactile Characters Above Finish Floor or Ground

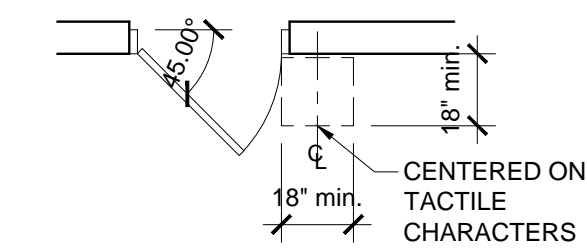
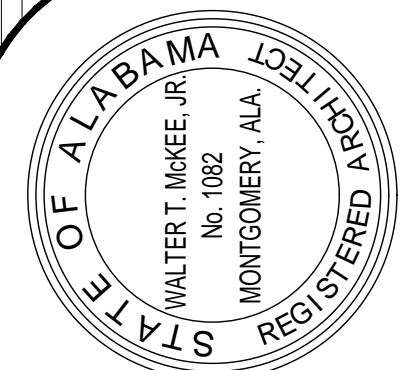


Figure 703.4.2
Location of Tactile Signs at Doors

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SHEET TITLE : SCHEDULES

MCKEE JOB # : 23-251

DRAWN BY : JRB

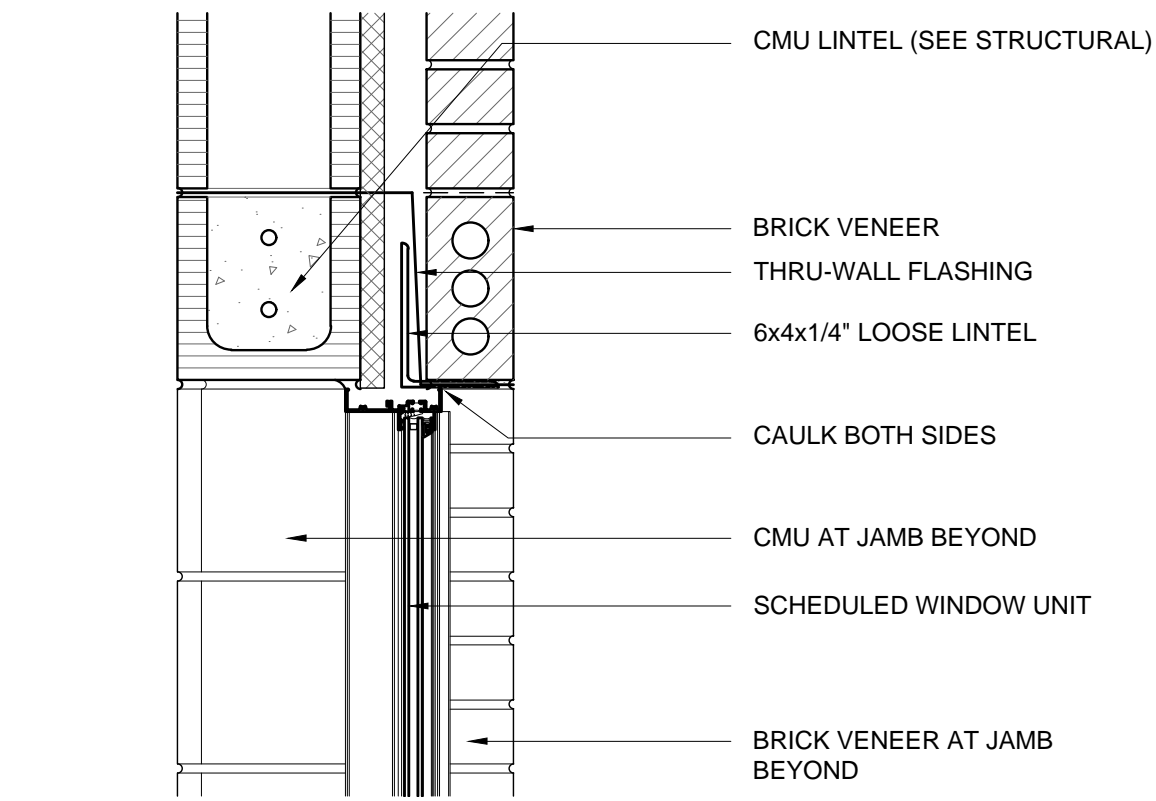
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REVISED DATE :

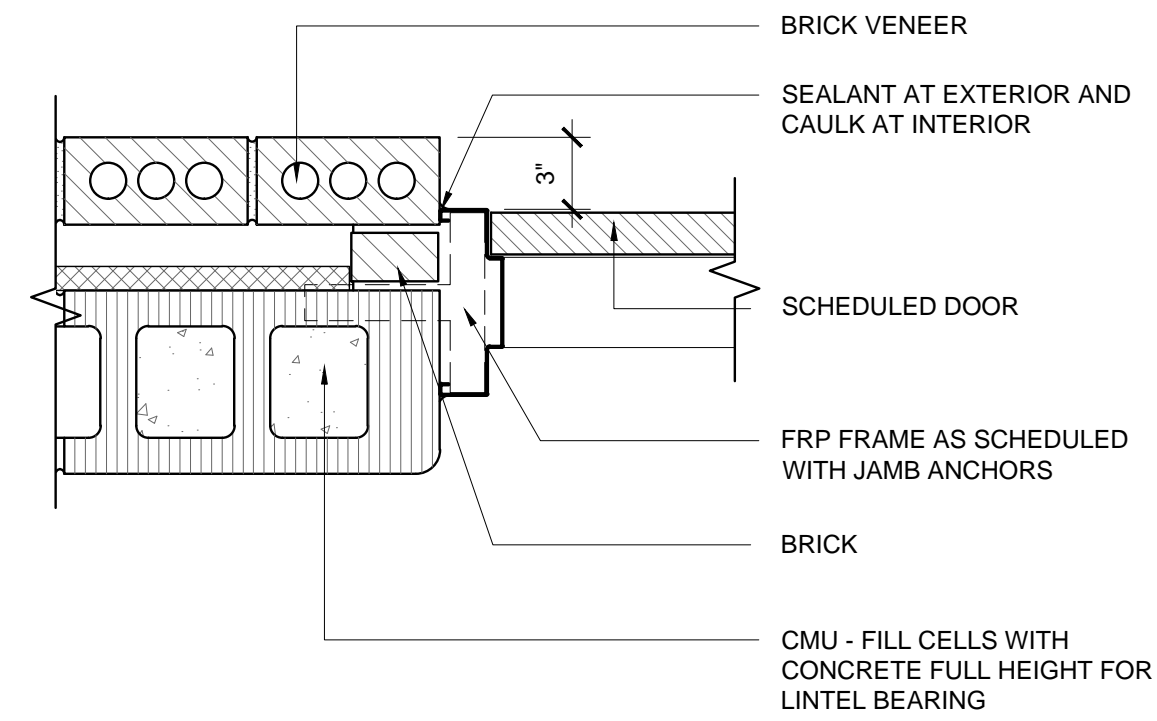
REVISED DATE :

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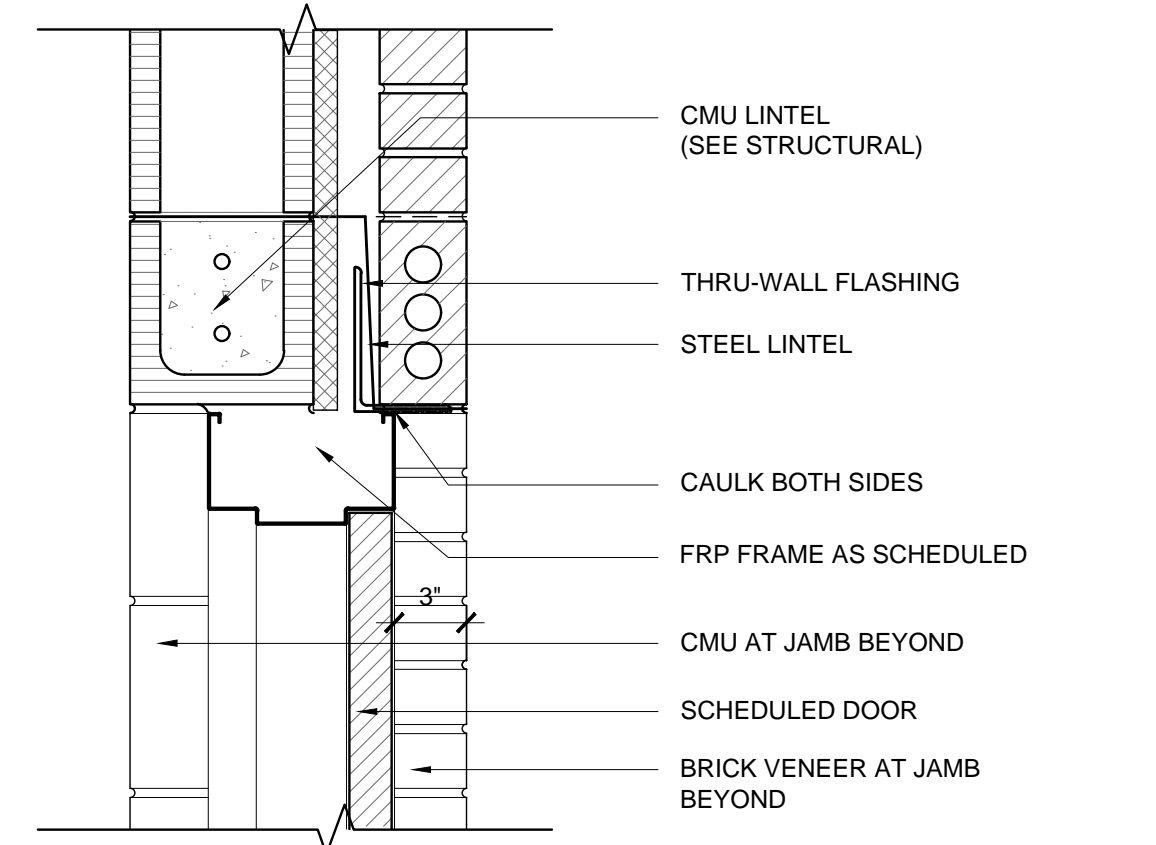
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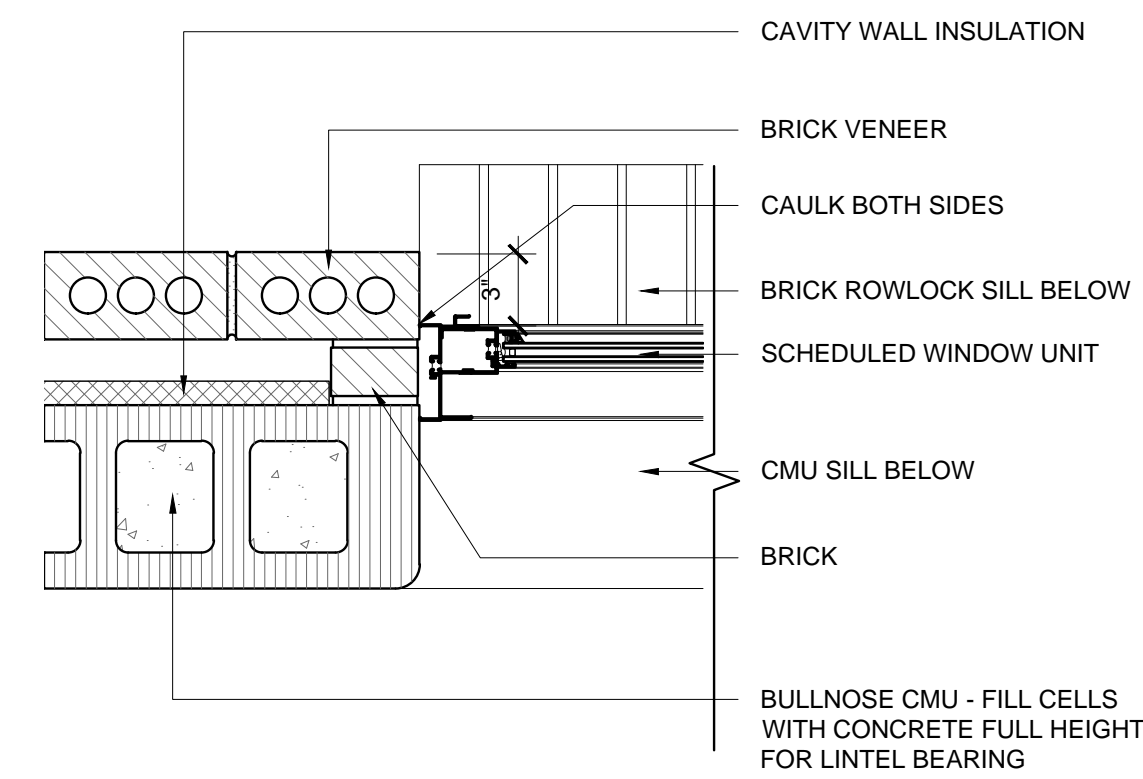
9 WINDOW DETAIL
SCALE: 1 1/2"=1'-0" HEAD



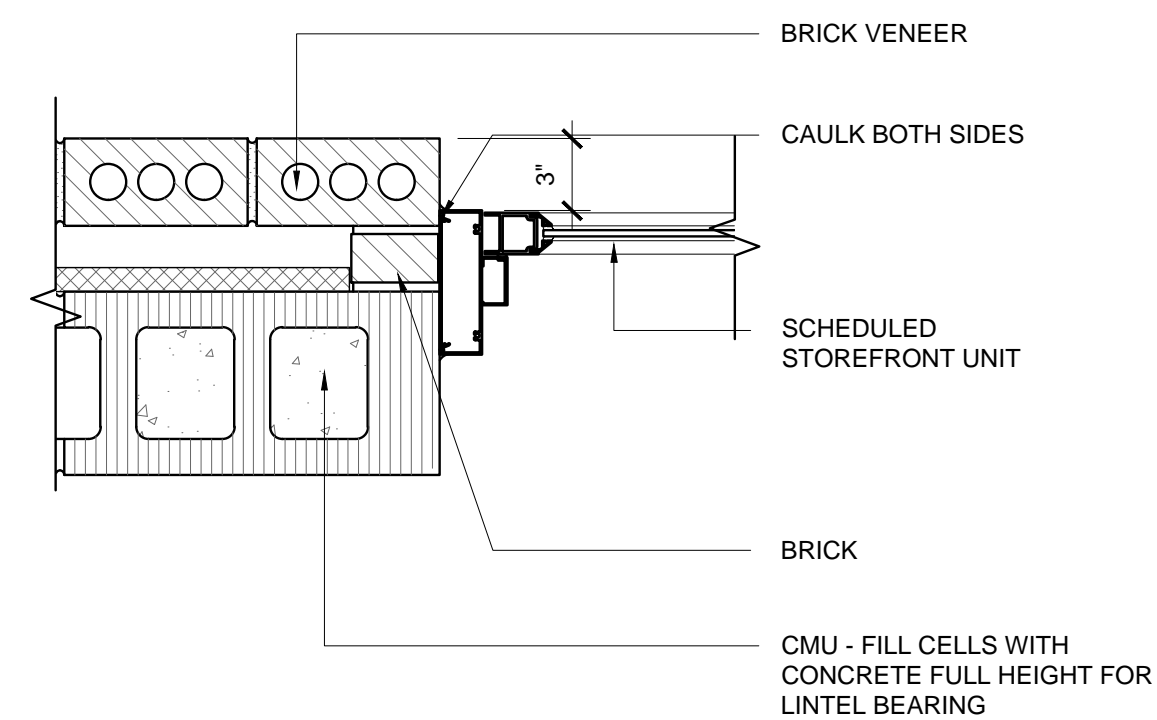
2 FRP DOOR DETAIL
SCALE: 1 1/2"=1'-0" JAMB



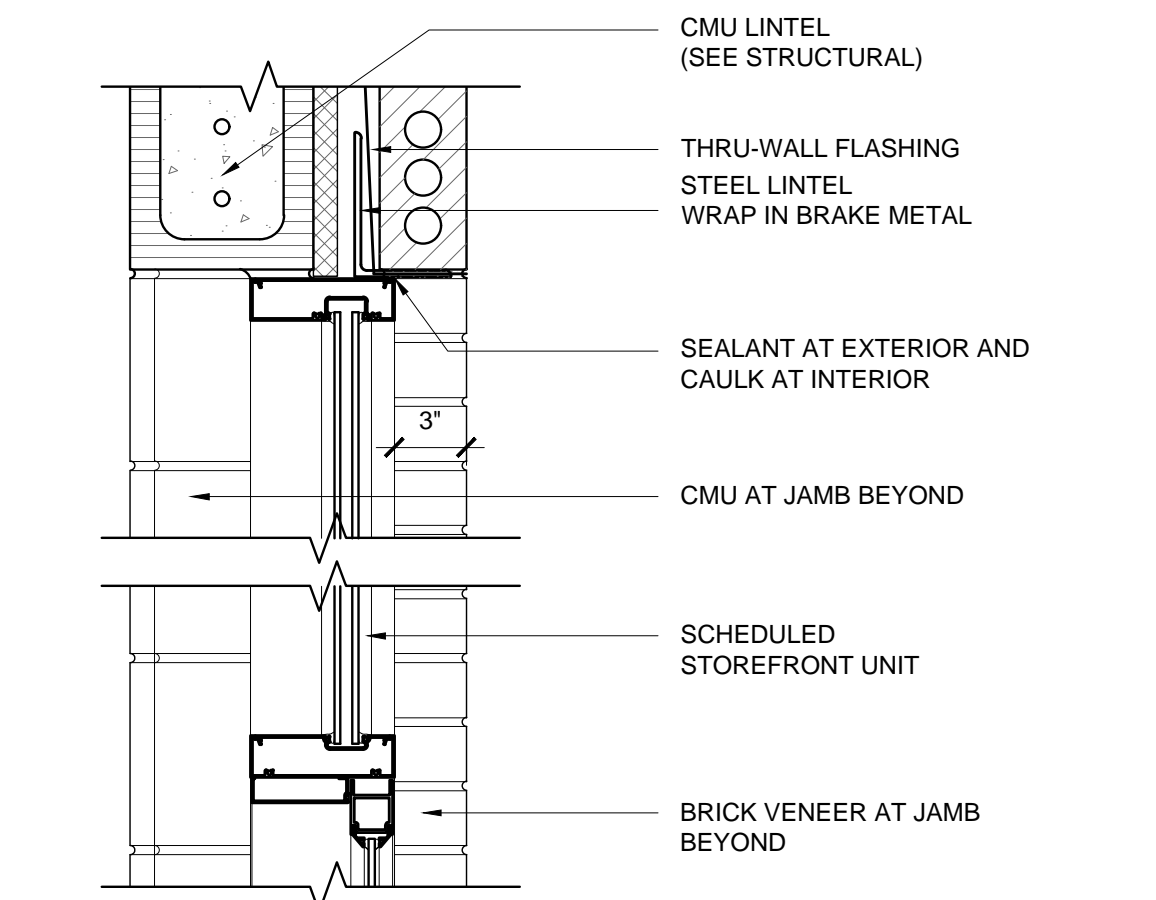
1 FRP DOOR DETAIL
SCALE: 1 1/2"=1'-0" HEAD



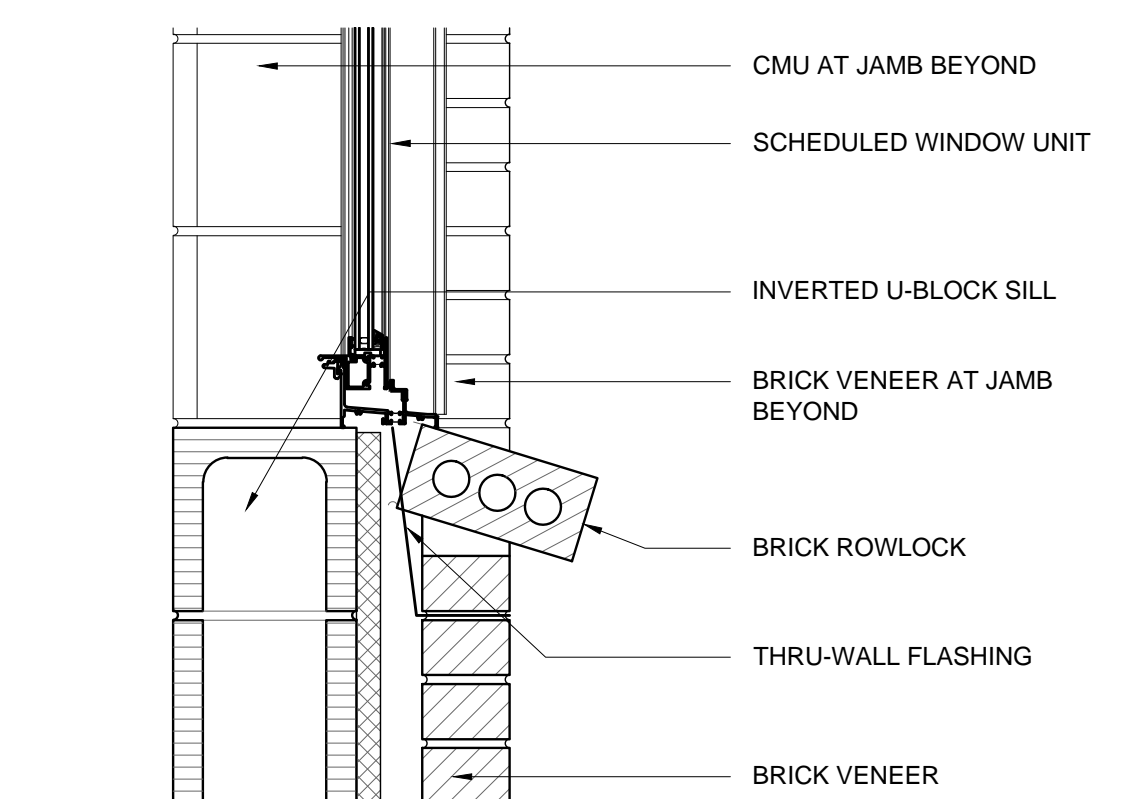
10 WINDOW DETAIL
SCALE: 1 1/2"=1'-0" JAMB



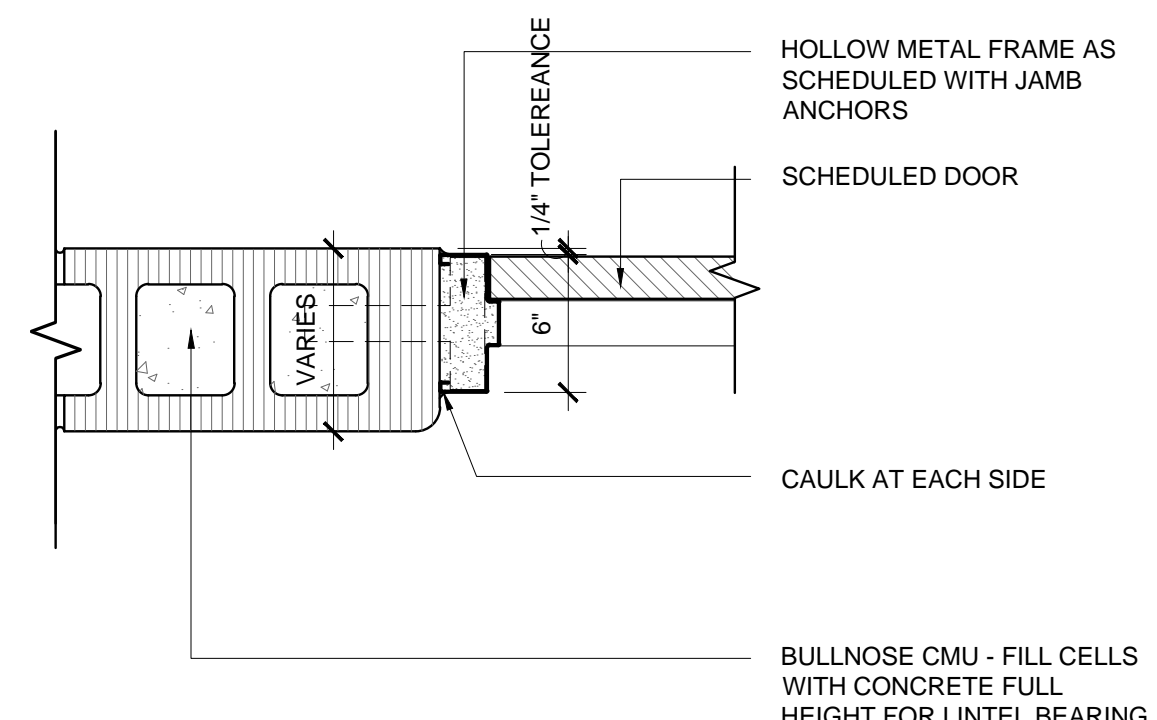
4 DOOR DETAIL
SCALE: 1 1/2"=1'-0" JAMB



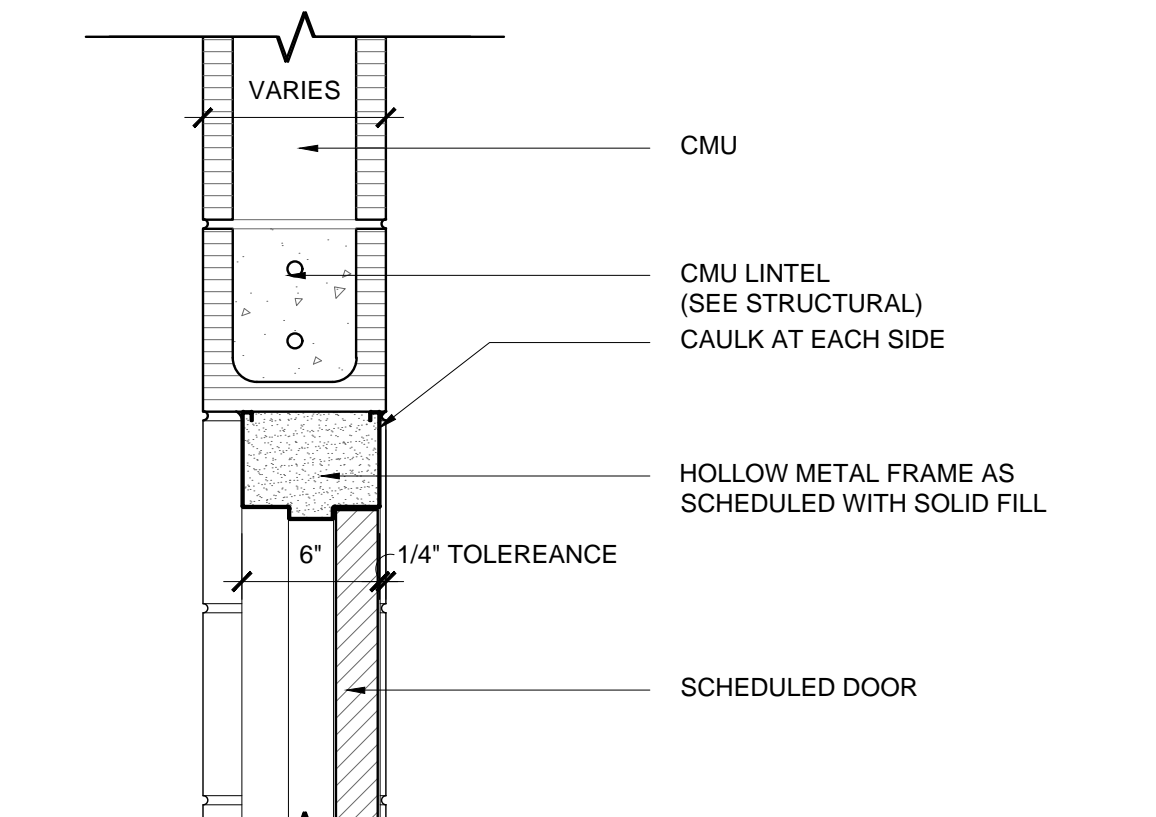
3 DOOR DETAIL
SCALE: 1 1/2"=1'-0" HEAD



11 WINDOW DETAIL
SCALE: 1 1/2"=1'-0" SILL



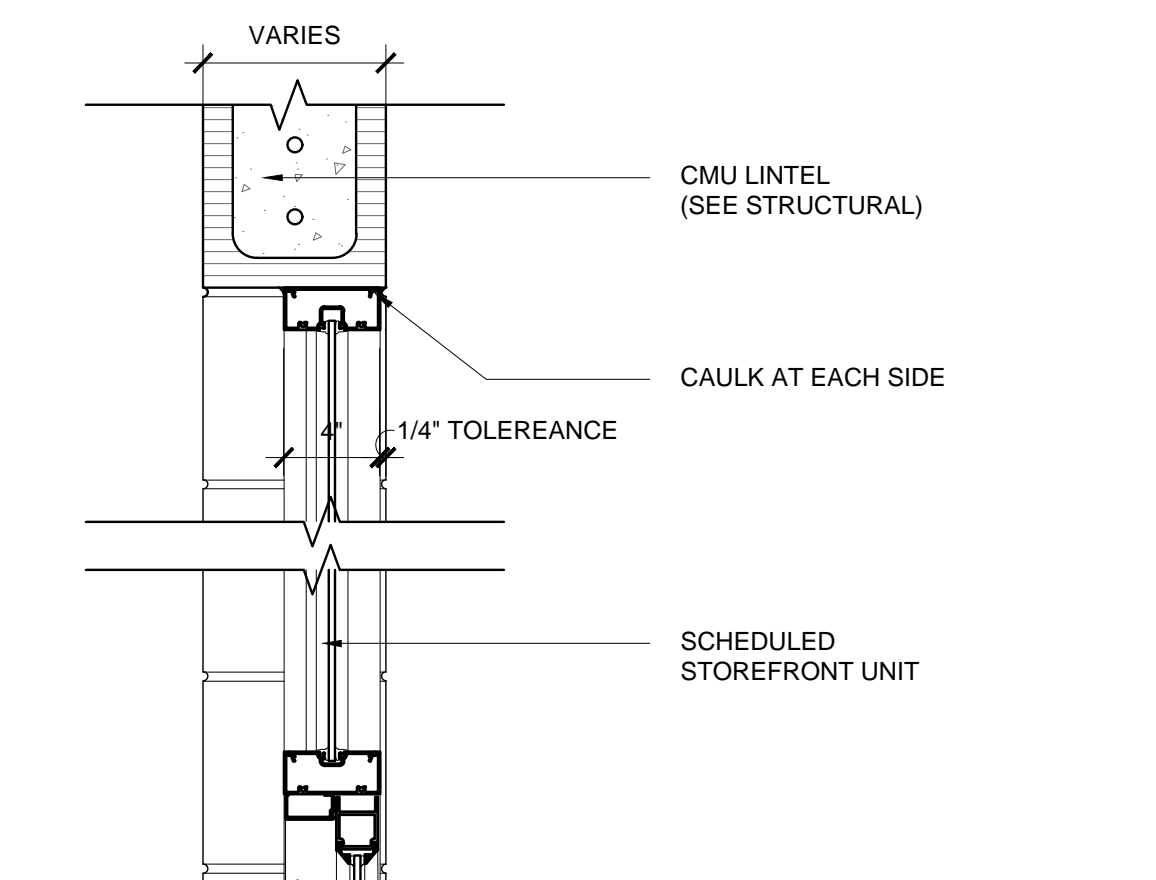
6 DOOR DETAIL
SCALE: 1 1/2"=1'-0" JAMB



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



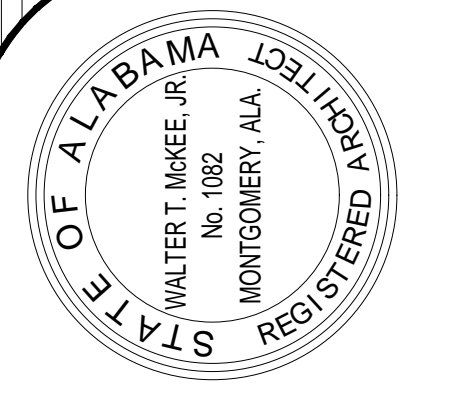
8 DOOR DETAIL
SCALE: 1 1/2"=1'-0" JAMB



7 DOOR DETAIL
SCALE: 1 1/2"=1'-0" HEAD

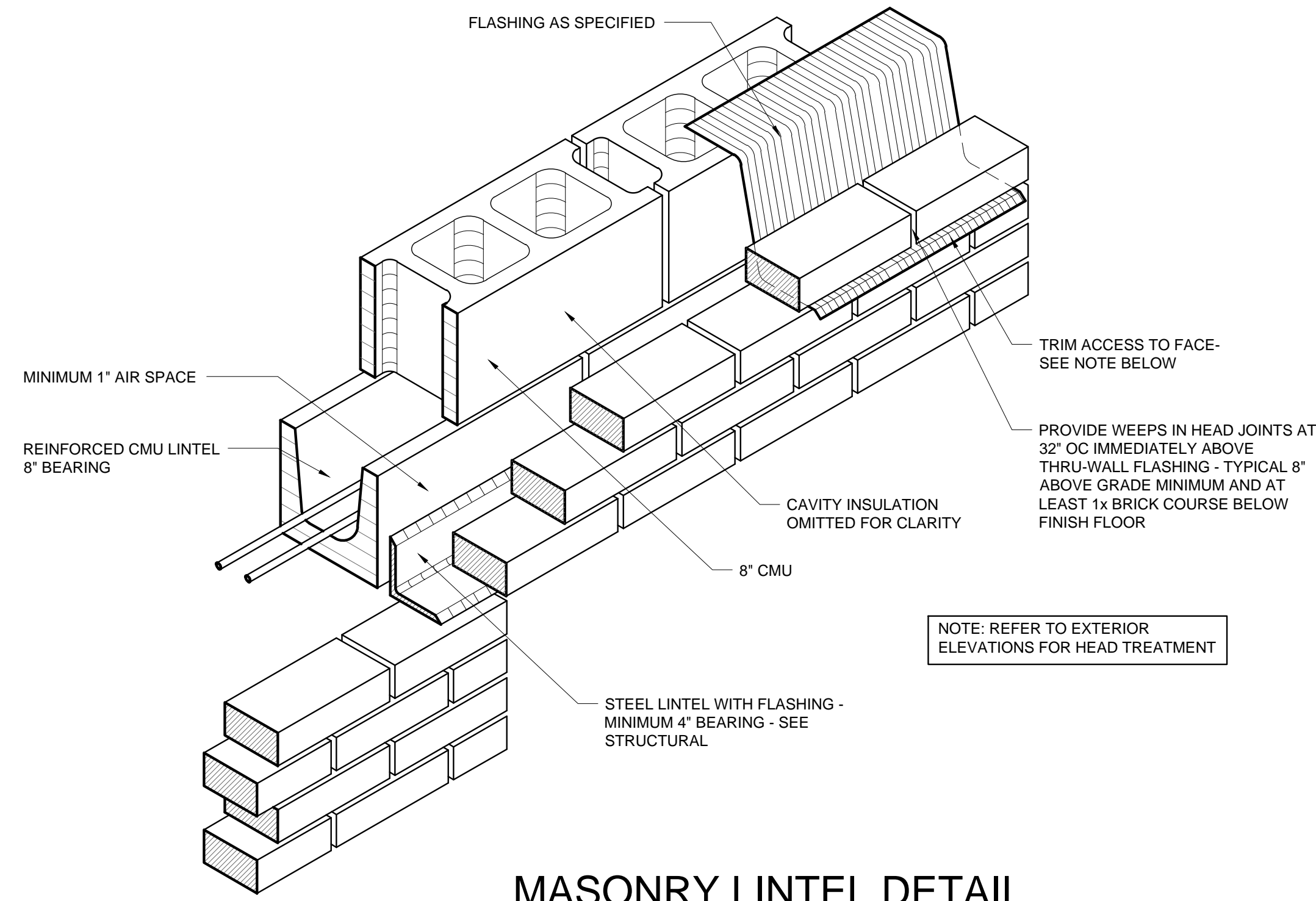
NEW ADMIN BUILDING
AT
RED BAY HIGH SCHOOL
FOR THE
FRANKLIN COUNTY BOARD OF EDUCATION

MCKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9833

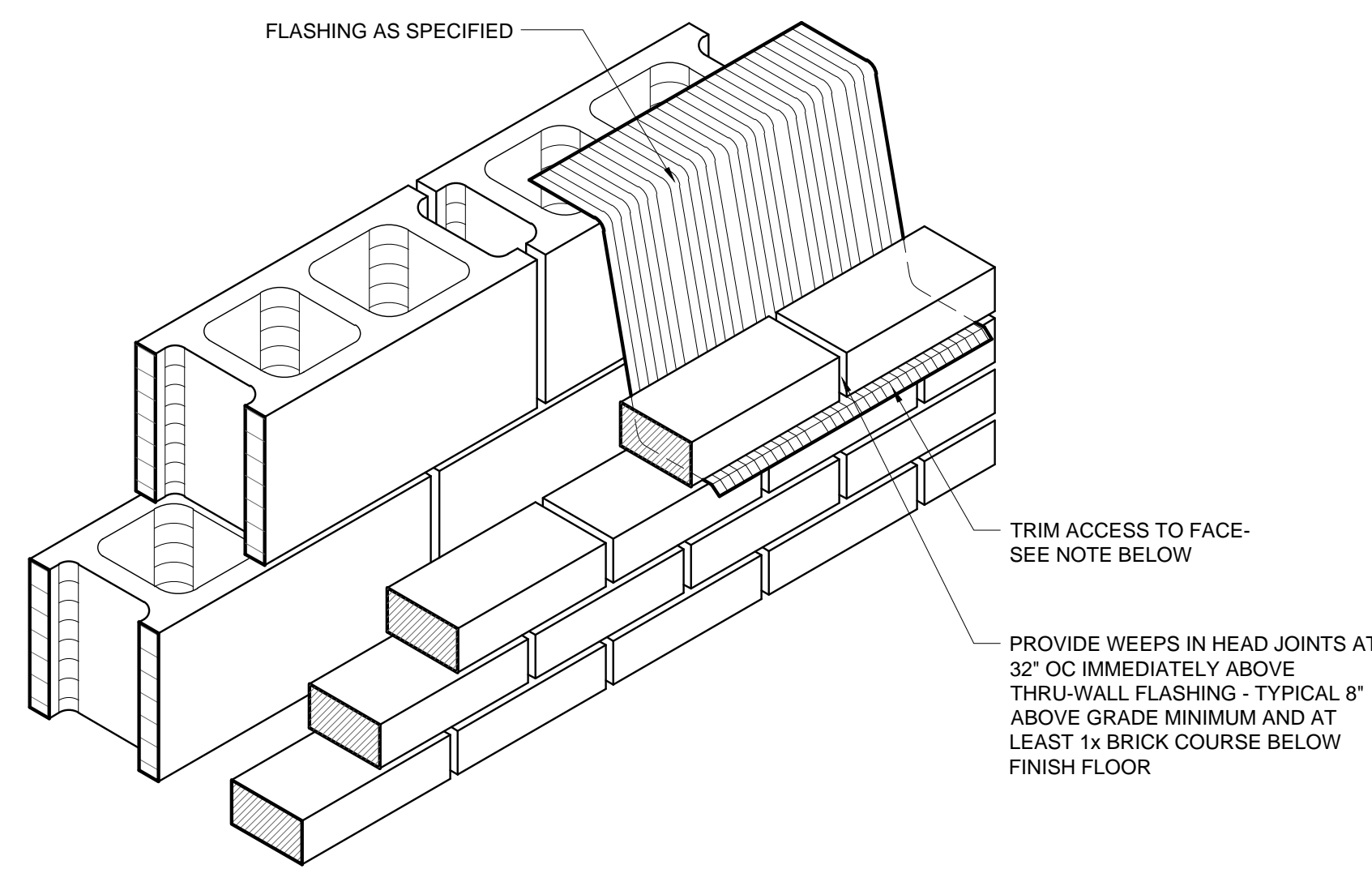


SHEET TITLE : DOOR AND WINDOW DETAILS
MCKEE JOB # : 23-251
DRAWN BY : JRB
DATE: 05.18.2024
REVISED DATE:
REVISED DATE:
REVISED DATE:

SHEET NO. : **A8.2**

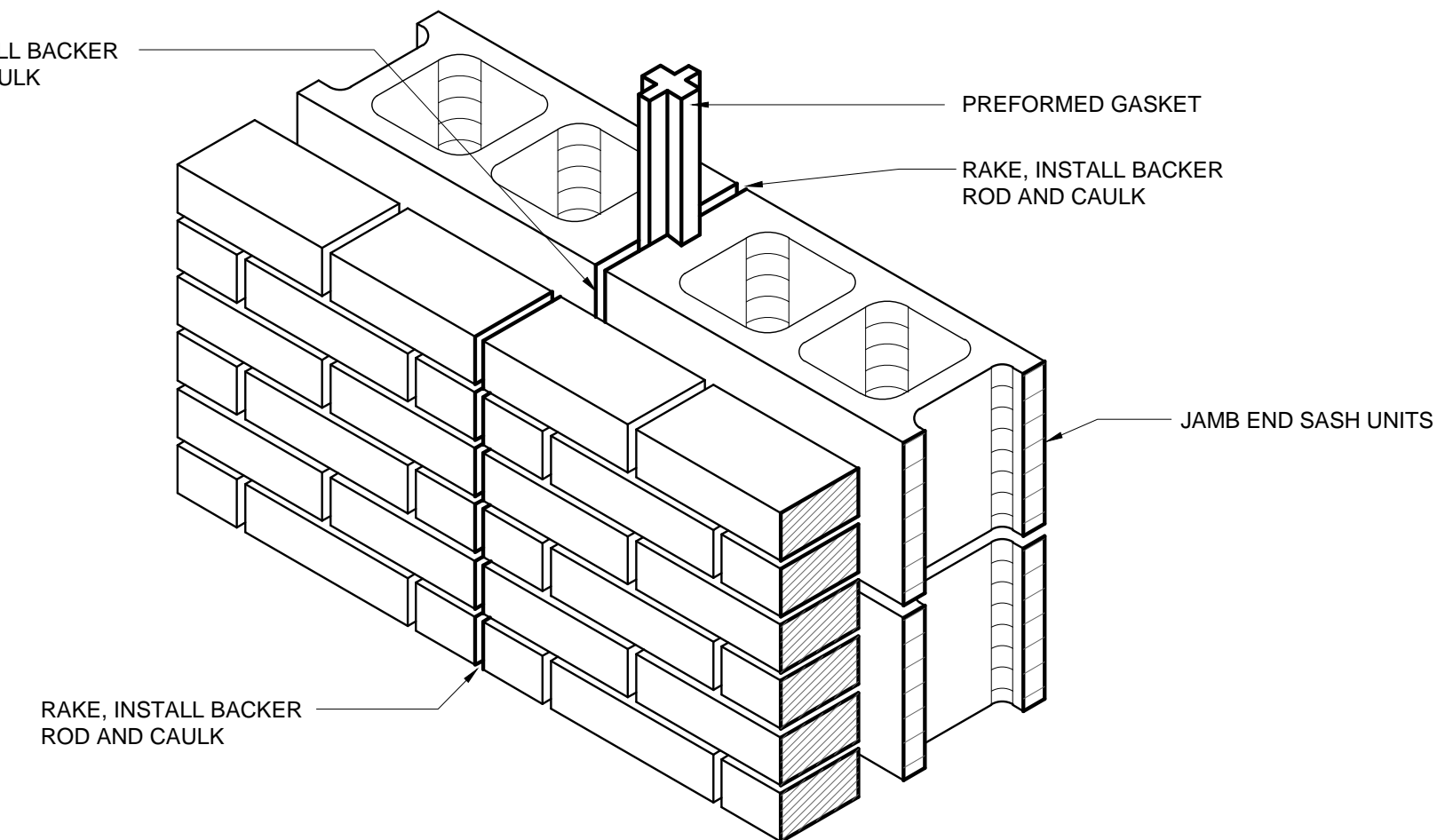


MASONRY LINTEL DETAIL
SCALE: 1 1/2" - 1'-0"

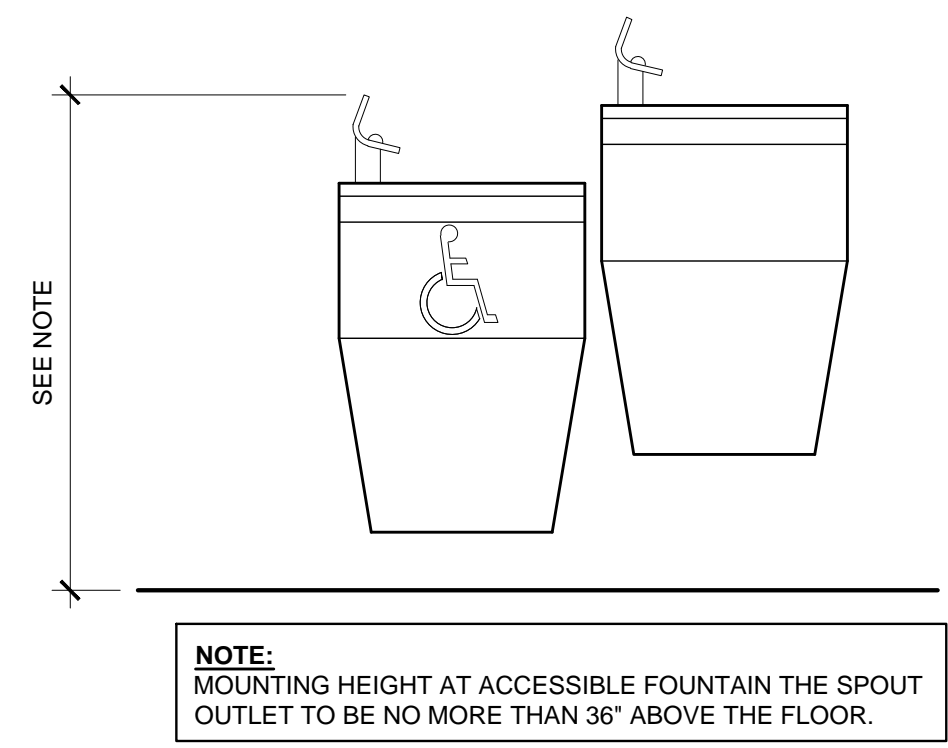


THRU-WALL FLASHING DETAIL
SCALE: 1 1/2" - 1'-0"

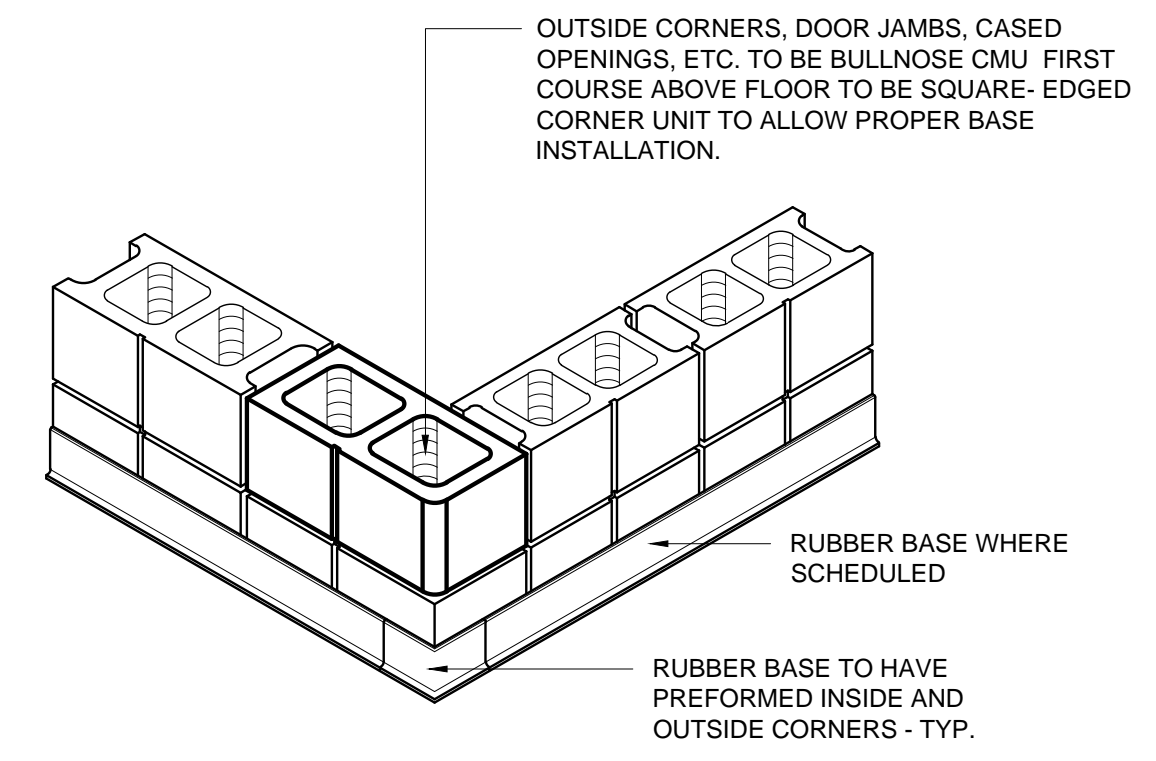
NOTE: BRICK INSTITUTE OF AMERICA TECHNICAL NOTE # 7 STATES THAT ALL FLASHING MUST EXTEND PAST THE EXTERIOR FACE OF THE MASONRY OR BE CUT FLUSH WITH THE EXTERIOR MASONRY. CUT FABRIC TYPE FLASHING FLUSH WITH THE EXTERIOR FACE OF MASONRY AFTER BEING LEFT EXPOSED FOR INSPECTION PURPOSES ONLY.



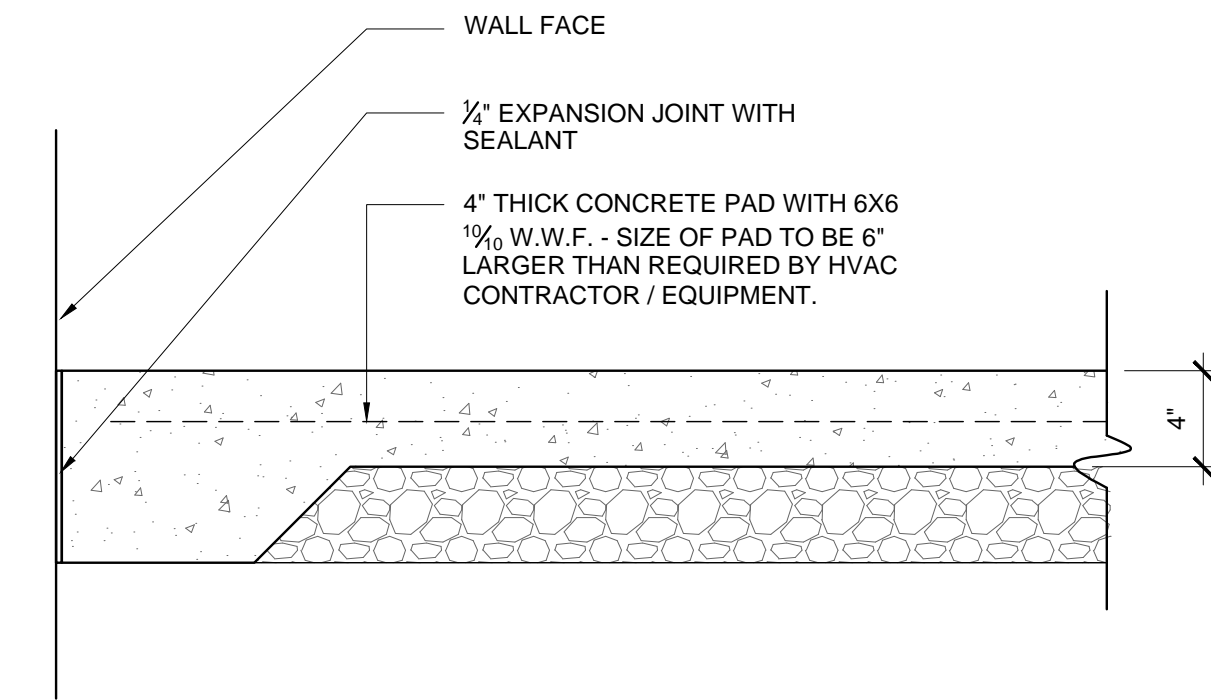
MASONRY CONTROL JOINT DETAIL (MCJ)
SCALE: 1 1/2" - 1'-0"



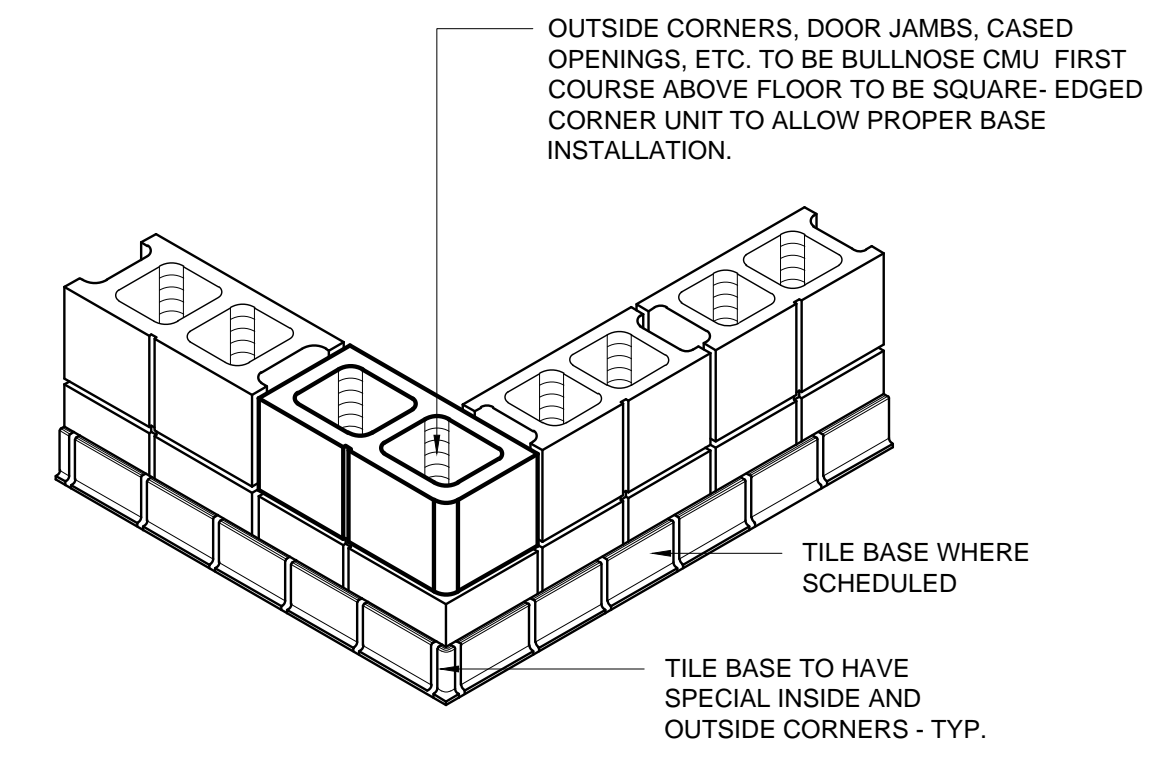
ELECTRIC WATER COOLER (EWC)
SCALE: 1 1/2" - 1'-0"



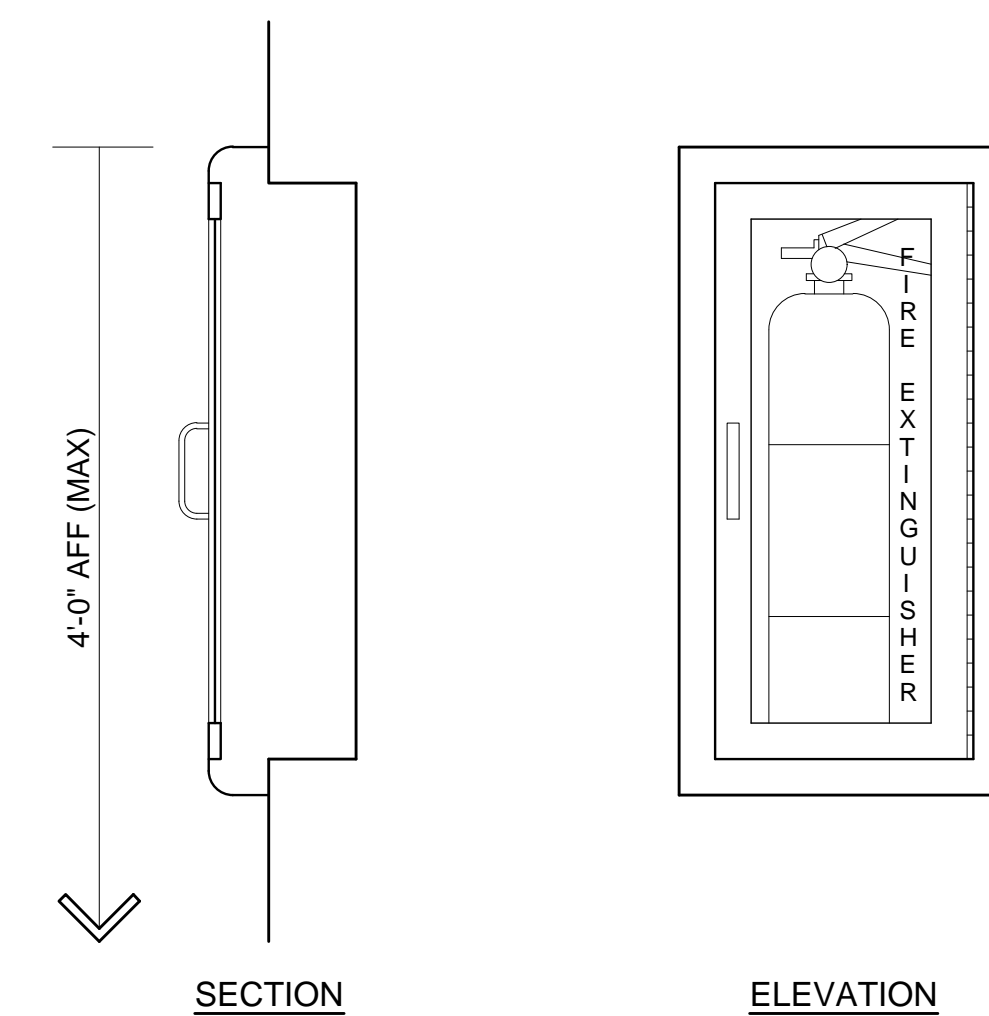
RUBBER BASE DETAIL
SCALE: 3/4" - 1'-0"



HVAC EQUIPMENT PAD (CEP)
SCALE: 1 1/2" - 1'-0"

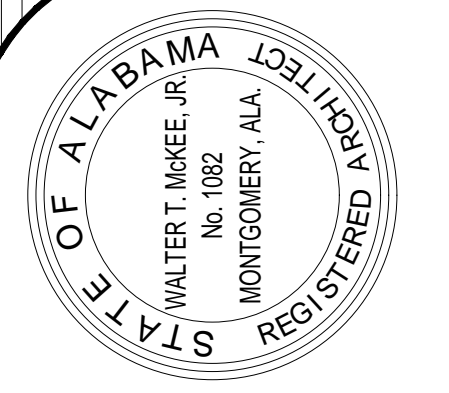


HARD TILE DETAIL
SCALE: 3/4" - 1'-0"



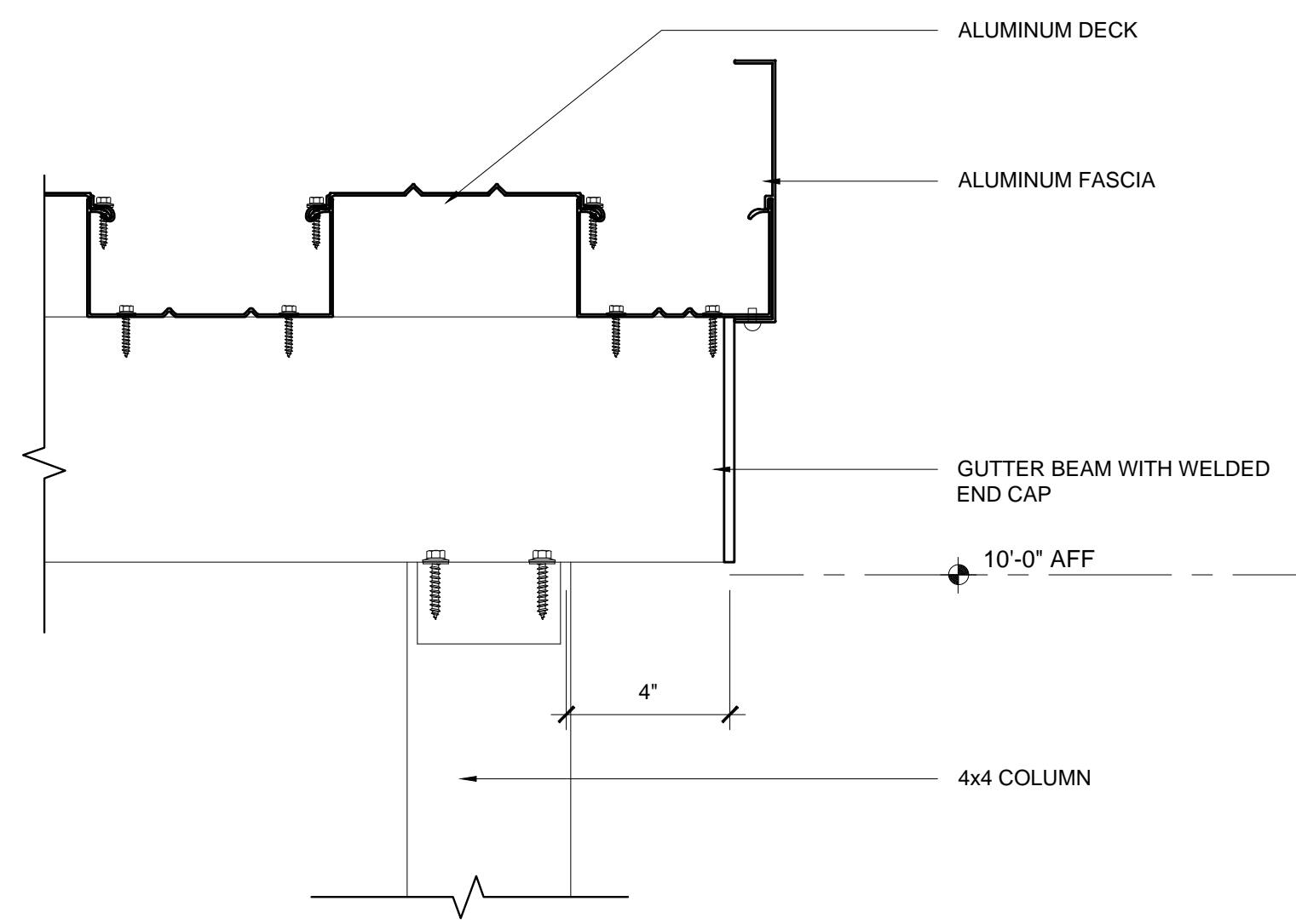
FIRE EXTINGUISHER CABINET (FEC)
SCALE: 1 1/2" - 1'-0"

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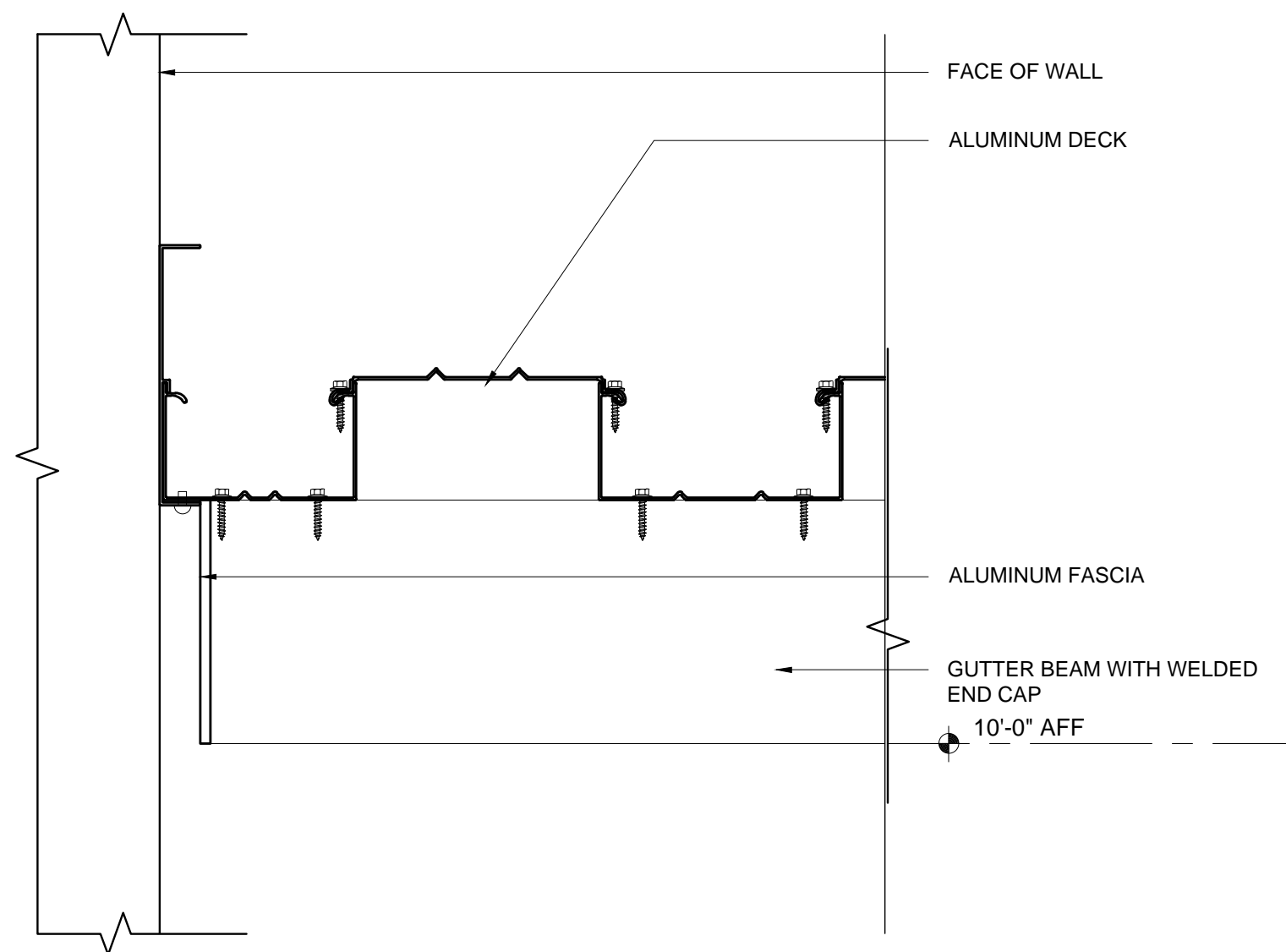


SHEET TITLE : MISCELLANEOUS DETAILS
 MCKEE JOB # : 23-251
 DRAWN BY : JRB
 DATE : 05.18.2024
 REVISED DATE :
 REVISED DATE :
 REVISED DATE :

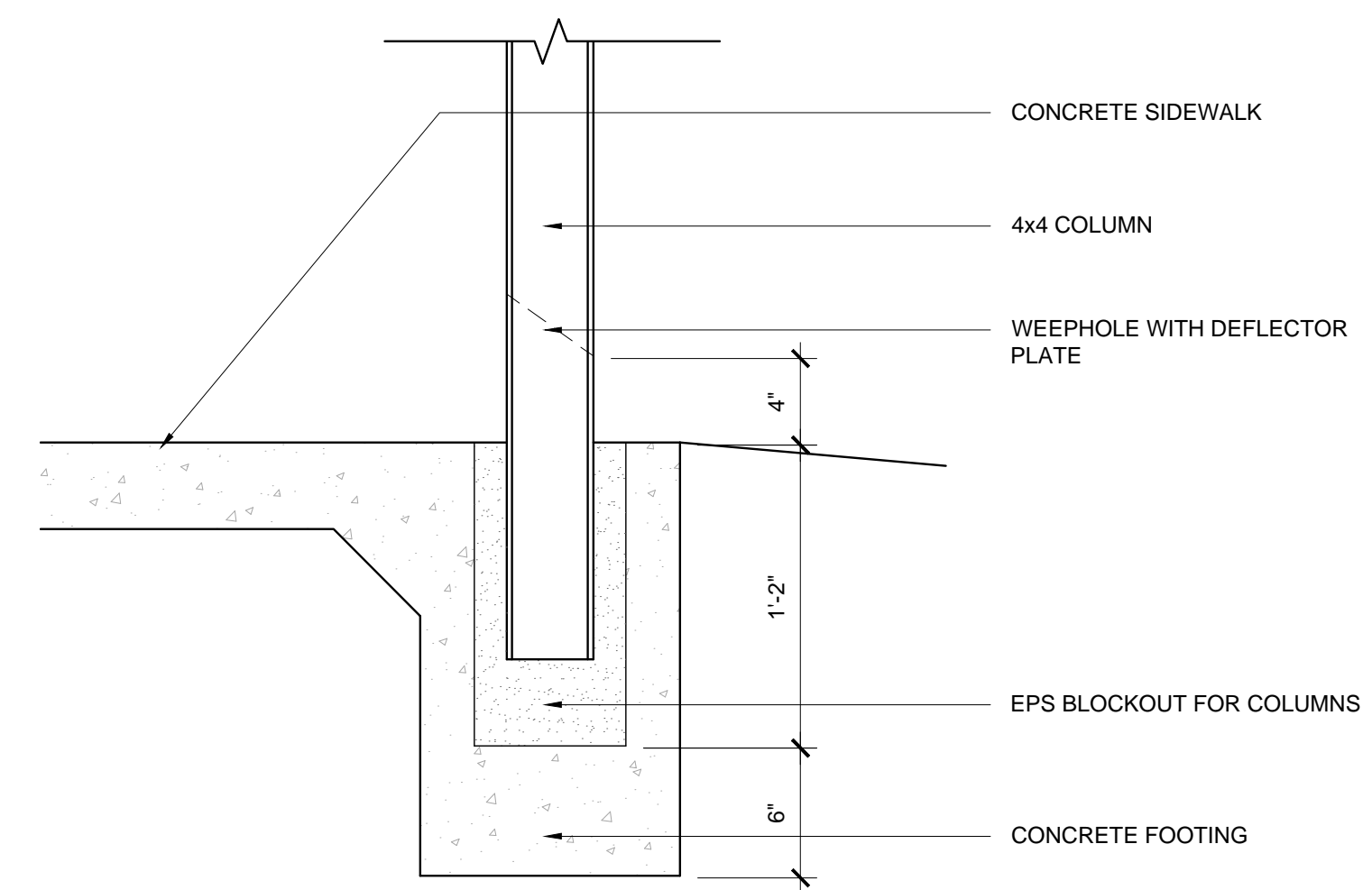
SHEET NO. : **A9.1**



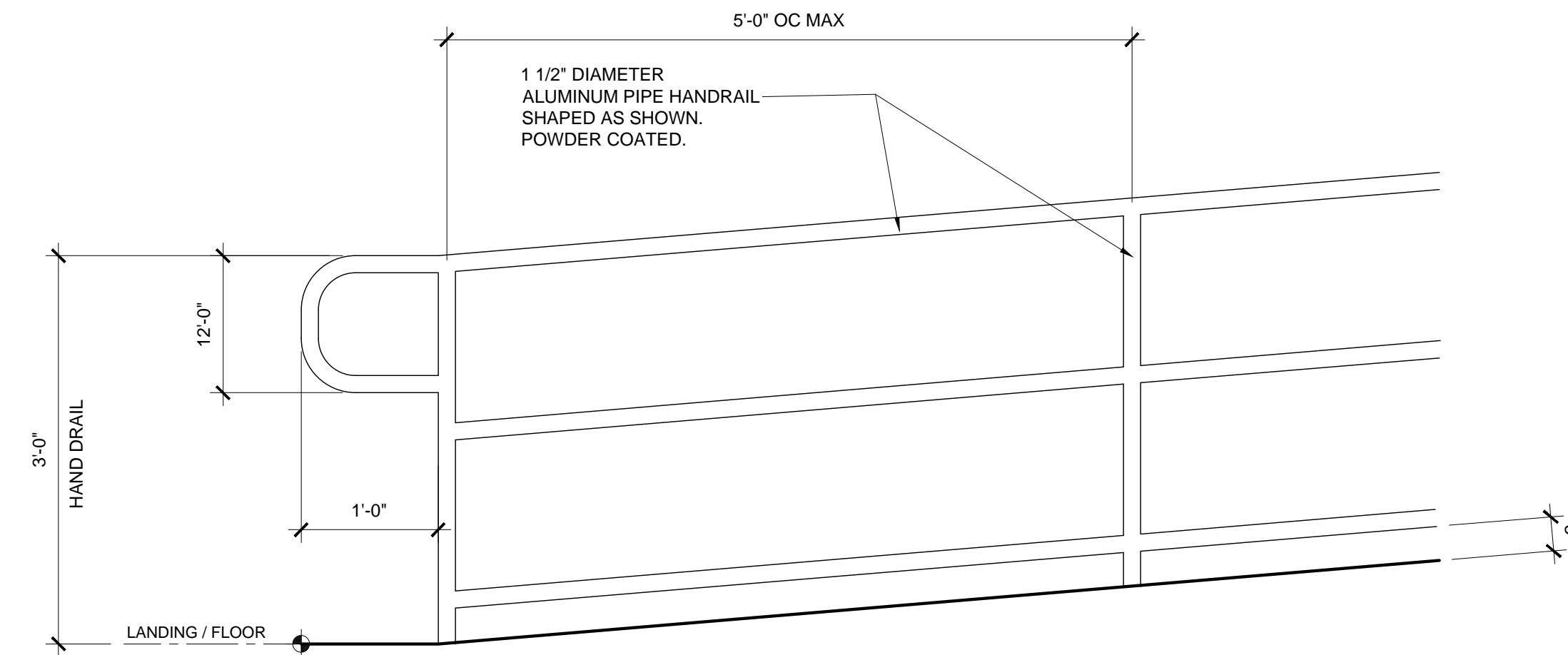
CANOPY EDGE
SCALE: 3" - 1'-0"



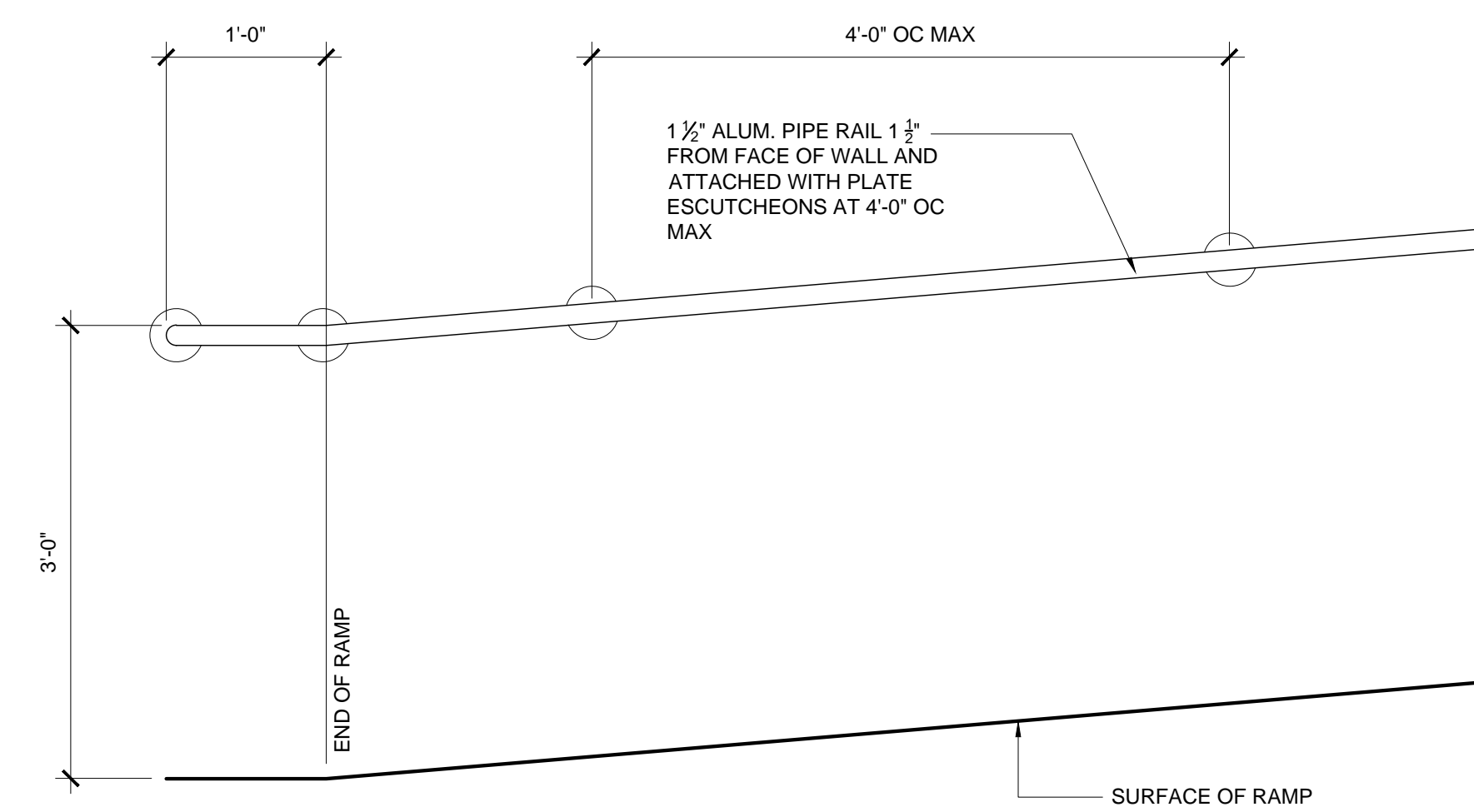
CANOPY WALL ATTACHMENT
SCALE: 3" - 1'-0"



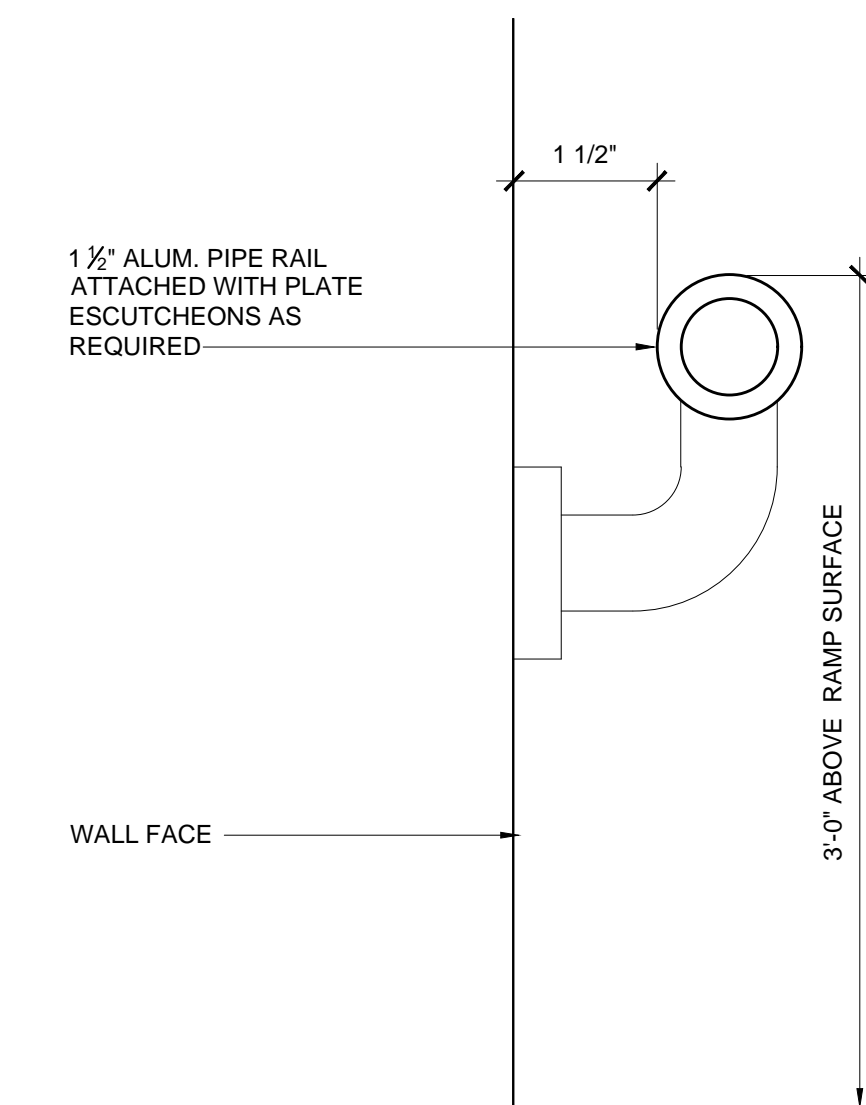
CANOPY FOOTING
SCALE: 1 1/2" - 1'-0"



METAL HANDRAIL AT EDGE OF RAMP (HR)
SCALE: 1" - 1'-0"



WALL MOUNTED HANDRAIL AT RAMP (WHR)
SCALE: 1" - 1'-0"



WALL MOUNTED HANDRAIL DETAIL
SCALE: 6" - 1'-0"

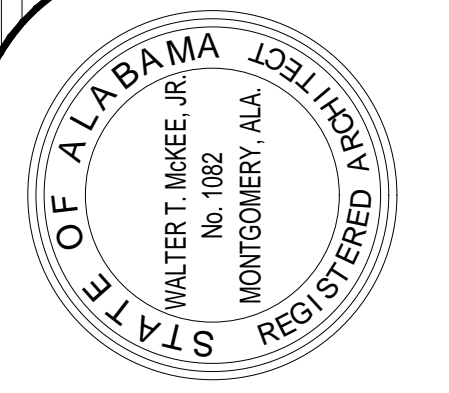
CODE NOTES:

- HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION WITH AN OUTSIDE DIAMETER OF AT LEAST 1-1/4 INCHES AND NOT MORE THAN 2 INCHES (IBC SEC 1014.3.1).
- WALL HANDRAILS SHALL BE RETURNED TO THE WALL. THEY SHALL EXTEND HORIZONTALLY, AT THE REQUIRED HEIGHT, AT LEAST 12 INCHES BEYOND THE TOP OF THE RAMP.

GENERAL NOTES:

- ALL HANDRAILS AND GUARDRAILS ARE TO BE CONSTRUCTED TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND THE INTERNATIONAL BUILDING CODE.
- PRIME AND PAINT ALL EXPOSED STEEL OF METAL STAIRS AND RAILS.
- FIELD VERIFY ALL CONDITIONS PRIOR TO FABRICATION. AT ALL TRANSITIONS WITH THE FLOOR, PROVIDE ESCUTCHEONS OF THE SAME MATERIAL FOR CRAFTED APPEARANCE.

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SHEET TITLE : MISCELLANEOUS DETAILS
 MCKEE JOB # : 23-251
 DRAWN BY : JRB
 DATE : 05.18.2024
 REVISED DATE :
 REVISED DATE :
 REVISED DATE :

SHEET NO. : **A9.2**

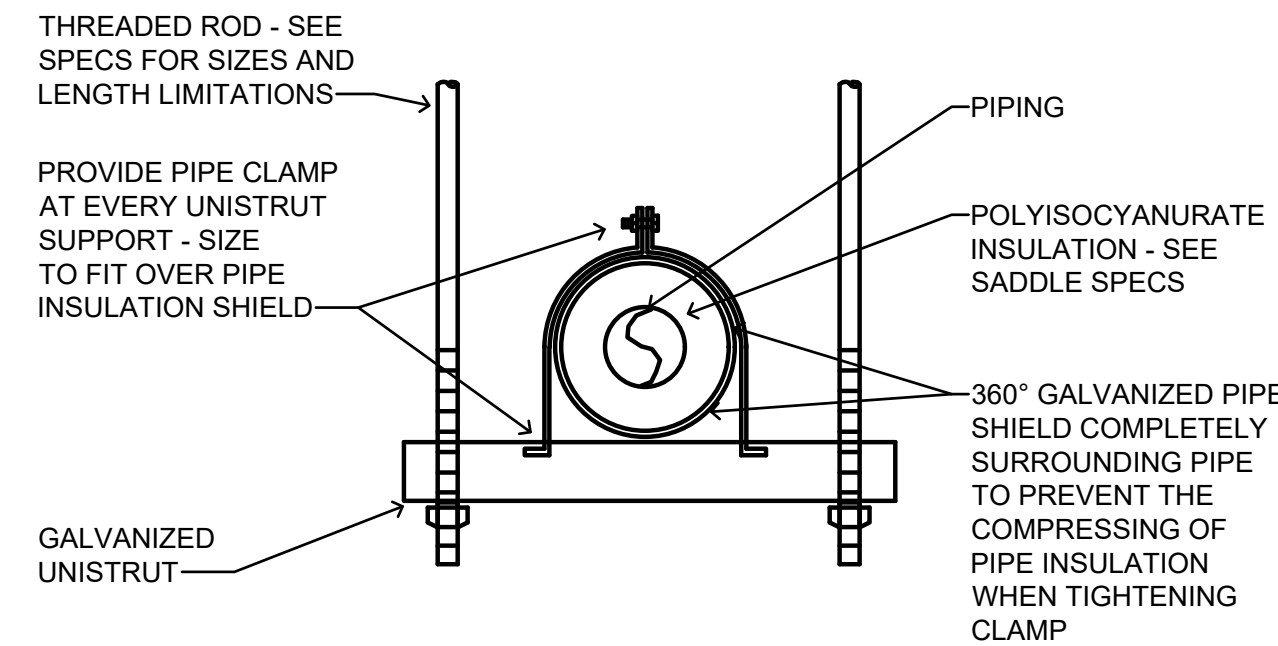
PLUMBING FIXTURE SCHEDULE

| NO. | FIXTURE | WASTE | C.W. | H.W. | REMARKS |
|------|------------------|--------|------|------|---|
| P1 | ADA WATER CLOSET | 3" | 1" | --- | FL. MTD. - ADA |
| P2 | ADA LAVATORY ** | 1 1/4" | 1/2" | 1/2" | WALL HUNG - SEE ARCH. PLANS FOR MOUNTING HEIGHT |
| P3 | MOP BASIN | 3" | 1/2" | 1/2" | FL. MTD. CORNER TYPE |
| P4 | SPLIT LEVEL EWC | 1 1/2" | 1/2" | --- | WALL HUNG - HIGH/LOW |
| P5 | ADA SINK | 1 1/2" | 1/2" | 1/2" | 1-COMP. MTD. IN COUNTER |
| T.P. | TRAP PRIMER | --- | 1/2" | --- | CONNECT TO FLOOR DRAIN AS SPECIFIED |

** PROVIDE A WATER TEMPERATURE LIMITING DEVICE (ASSE 1070 MIXING VALVE) WITH 1/2" TEMPERED WATER LINE TO FAUCET - SEE SPECS FOR REQUIREMENTS

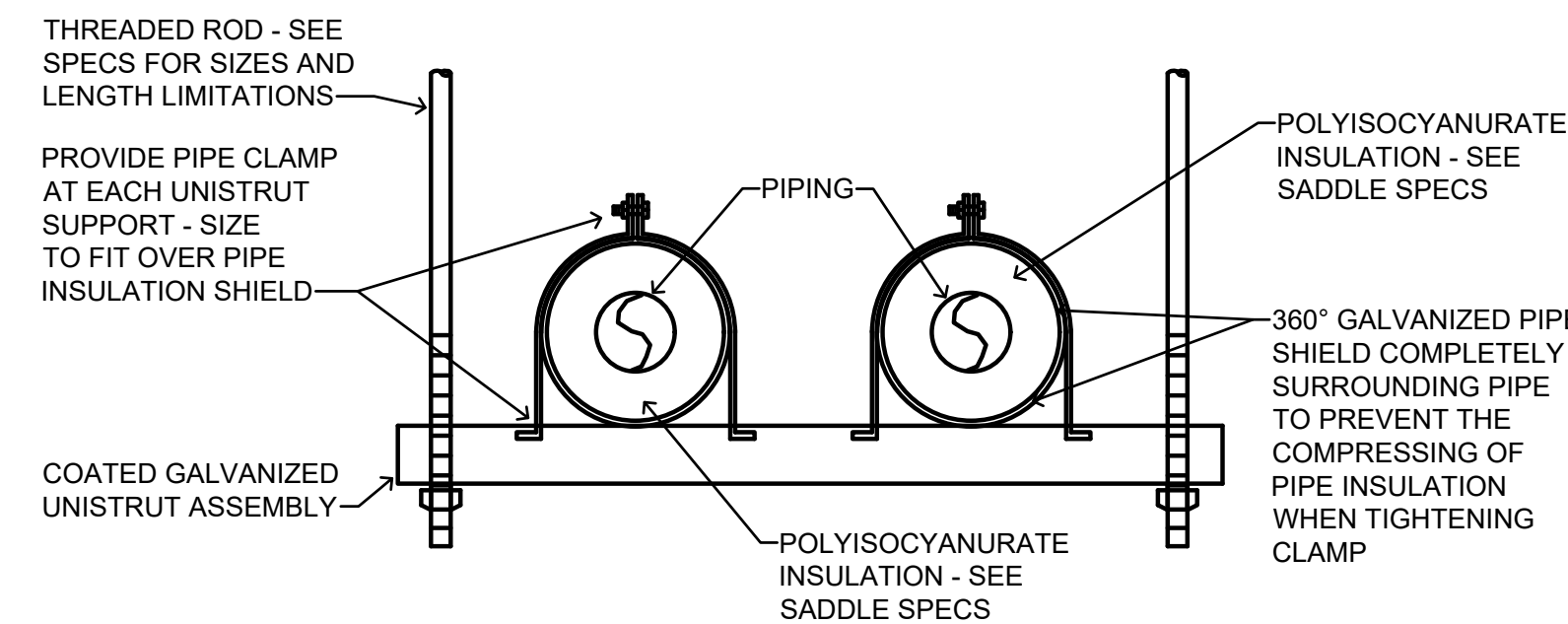
GENERAL PLUMBING NOTES

- ROUGH IN WATER CLOSET AND URINAL FLUSH VALVE SO THAT THE FLUSH TUBE IS VERTICALLY STRAIGHT.
- ADA FIXTURES AND INSTALLATION SHALL COMPLY WITH CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN.
- FLUSH VALVE HANDLE FOR ALL MANUAL FLUSH WATER CLOSETS SHALL BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL AS REQUIRED BY CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN.
- ROUGH-IN ADA WATER CLOSETS 18" FROM FINISHED WALL TO CENTERLINE OF THE WATER CLOSET. MEASURE FROM FACE OF SHORT SIDE OF THE STALL TO THE FINISHED WALL.
- PROVIDE A CAST IRON DEEP SEAL P-TRAP FOR EACH FLOOR DRAIN AND HUB DRAIN WITH TRAP PRIMER AS SPECIFIED.
- ROUTE ALL OVERHEAD WATER PIPING AND WATER PIPING WITHIN NON-MASONRY WALLS WITHIN THE BUILDING INSULATION ENVELOPE.
- ALL WATER PIPING WITHIN MASONRY WALLS SHALL BE INSULATED AS SPECIFIED.
- ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR (WARM) SIDE OF THE BUILDING EXTERIOR WALL INSULATION
- COORDINATE ALL PIPING RUNS WITH THE ELECTRICAL PLANS AND THE ELECTRICAL CONTRACTOR. DO NOT ROUTE ANY PIPING OVER ELECTRICAL PANELS, TRANSFORMERS, SWITCHGEAR, ETC. MAINTAIN CLEARANCES AS REQUIRED BY RESPECTIVE CODES.
- ALL PIPING AND FITTINGS ROUTED IN/THROUGH RETURN AIR PLENUMS, RETURN AIR PLATFORMS, OR FIRE RATED PARTITIONS AND ENCLOSURES SHALL BE CAST IRON OR PVDF. SEE SPECS.
- PLUMBING VENTS SHALL TERMINATE A MINIMUM OF 10'-0" DISTANCE FROM ALL HVAC OUTSIDE AIR INTAKES.
- PROVIDE A READILY ACCESSIBLE CLEANOUT AT OR NEAR THE BASE OF EACH WASTE AND VENT STACK PER INTERNATIONAL PLUMBING CODE AND THE SPECIFICATIONS. CLEANOUTS SHALL BE HIGH ENOUGH TO CLEAR THE TILE BASE WITHOUT CUTTING OF THE BASE AND SHALL BE LOCATED WITHIN THE SPECIFIED PIPING ENCLOSURE FOR ALL WALL MOUNTED LAVATORIES AND WALL MOUNTED HAND SINKS WHEN POSSIBLE.
- LOCATE CLEANOUTS TO THE SIDE OF THE WATER CLOSETS WITH A MINIMUM CLEARANCE OF 6" FROM THE ROUGH-IN OF THE WATER CLOSETS, PREFERRED LOCATION IS IN ADA STALL TO ALLOW FOR ADDITIONAL ACCESS SPACE.
- WATER SUPPLY SYSTEM IS DESIGNED FOR A STATIC PRESSURE OF 50 TO 75 PSI. GAUGE WATER SUPPLY PRESSURE AND VERIFY PRESSURE IS WITHIN THE SPECIFIED LIMITS. PROVIDE WATER PRESSURE REDUCING VALVE AS REQUIRED TO MAINTAIN WATER PRESSURE WITHIN DESIGN LIMITS.
- PROVIDE A BALL VALVE ON ONE SIDE OF EVERY DIELECTRIC UNION AS REQUIRED TO FACILITATE ITS REMOVAL.
- TOPS OF ALL OUTSIDE CLEANOUTS SHALL BE FLAT AND BROUGHT TO GRADE AND FINISHED FLUSH IN 12x12x12 CONCRETE PAD.
- ALL INTERIOR AND EXTERIOR WALL HYDRANTS AND HOSE BIBBS SHALL BE LOCATED 24" A.F.F. COORDINATE FINAL HEIGHT OF INDOOR WALL HYDRANTS WITH ARCHITECTURAL CABINET PLANS PRIOR TO ROUGHING IN.
- WATER HAMMER ARRESTORS SHALL BE INSTALLED AT ALL SOLENOID, REMOTE OPERATED OR QUICK CLOSING VALVES AND AT EACH PLUMBING FIXTURE OR BATTERY OF PLUMBING FIXTURES. SEE SPECS FOR ADDITIONAL REQUIREMENTS.
- ALL HUB DRAINS THAT RISE THROUGH RETURN AIR PLATFORMS SHALL BE INSULATED CAST IRON, SHALL BE TERMINATED TO 6" ABOVE THE RETURN AIR PLATFORM AND SEALED AIR TIGHT. COORDINATE REQUIREMENT WITH MECHANICAL CONTRACTOR.
- ALL PIPING WITH VALVES AND OTHER ITEMS THAT MAY REQUIRE MAINTENANCE, SERVICE OR REPLACEMENT, SHALL BE LOCATED NO MORE THAN 12" ABOVE THE FINISHED CEILING AND NO MORE THAN 14'-0" ABOVE FINISH FLOOR IN AREAS WITHOUT CEILINGS, TO ENSURE PROPER ACCESS. PROVIDE DROPS IN PIPING AS REQUIRED FOR COMPLIANCE.
- IPC 704.1 REQUIRES ALL DRAINAGE PIPING UPSTREAM OF A GREASE INTERCEPTOR TO BE SLOPED AT 1/4" PER FOOT (2% SLOPE).
- DEMOLISH ALL EXISTING WALLS AS REQUIRED TO INSTALL NEW ITEMS AS SHOWN AND/OR SPECIFIED. RECONSTRUCTION AND REPAIR OF DEMOLISHED WALLS SHALL BE AS DIRECTED BY THE ARCHITECT. COORDINATE DEMOLITION AND REPAIRING/REBUILDING OF EXISTING WALLS WITH GENERAL CONTRACTOR PRIOR TO BID TO ALLOW FOR INSTALLATION OF CARRIERS, FIXTURES, PIPING, ETC. AS REQUIRED AND AS APPLICABLE.



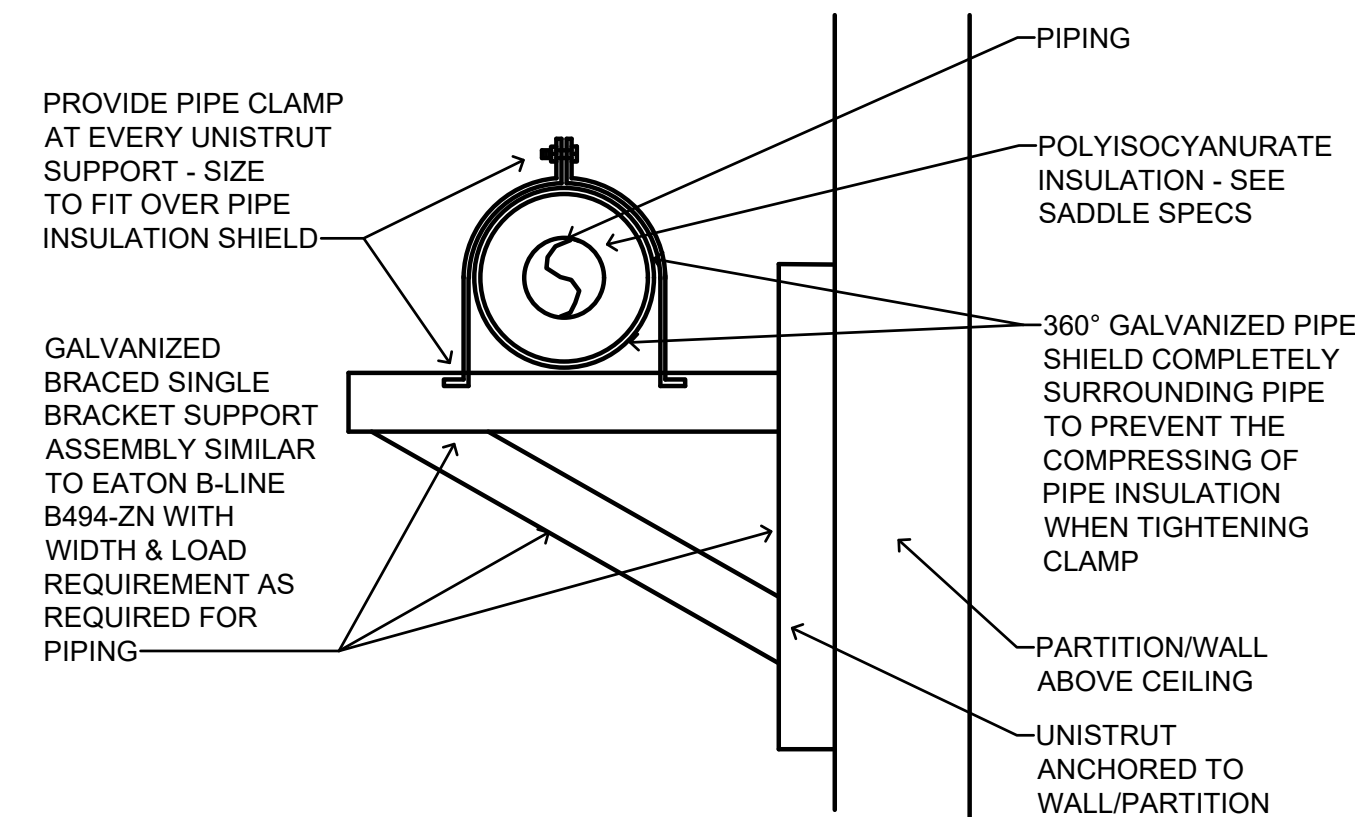
TYPICAL UNISTRUT HANGER DETAIL

NO SCALE



TYPICAL MULTIPLE PIPES HANGER DETAIL

NO SCALE



TYPICAL HORIZONTAL UNISTRUT PIPING SUPPORT DETAIL AT ABOVE CEILING PARTITION

- NOTES:
- MULTIPLE PIPES SIMILAR.
 - SUPPORT SPACING TO BE AS SPECIFIED FOR UNISTRUT ASSEMBLIES.
 - MANUFACTURER'S SADDLE LABEL WITH LOGO STICKER SHALL BE APPLIED TO EACH SADDLE AND SHALL BE VISIBLE FOR VERIFICATION OF PROPER INSTALLATION.
 - THREE DETAILS INDICATED ARE PREFERRED. OPTION FOR PIPING SUPPORT WHEN HANGER RODS EXCEED 36" TO STRUCTURE ABOVE CEILING.
 - COORDINATE UNISTRUT ATTACHMENTS/ANCHORS TO WALL WITH ARCHITECT'S SPECIFICATIONS FOR TYPE OF WALL INSTALLED AND PROVIDE ANCHORS/ATTACHMENTS AS REQUIRED.
 - VERTICAL RISER ASSEMBLY SIMILAR.

LEGEND

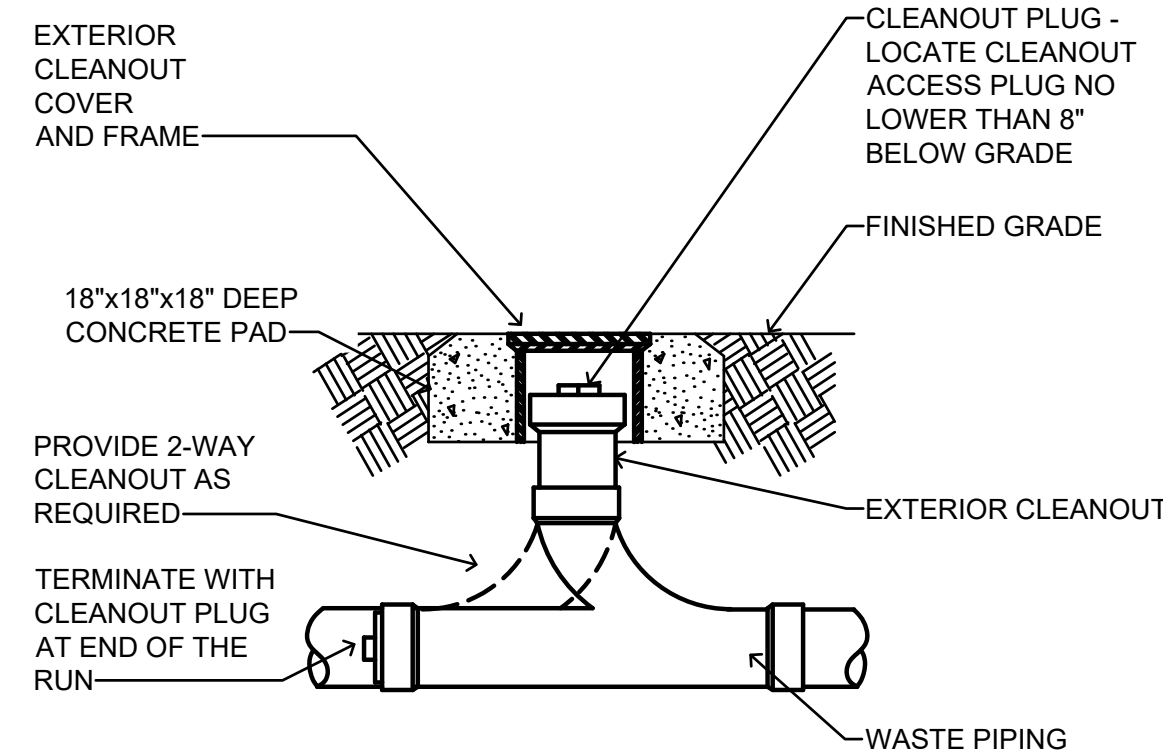
- WASTE PIPE
- VENT PIPE
- COLD WATER PIPE
- HOT WTR. PIPE (125°)
- HOT WTR. RECIRC. PIPE
- G GAS PIPE
- S STORM WATER PIPE
- AR ACID RESIST. WASTE PIPE
- AR ACID RESIST. VENT PIPE

- UNION
- GATE VALVE
- CHECK VALVE
- BALL VALVE

- B.V. BALL VALVE
- C.I. CAST IRON
- C.O. CLEANOUT
- D.S. DOWNSPOUT
- FCO FLOOR CLEANOUT
- F.D. FLOOR DRAIN
- M.F.D. MECH. FLOOR DRAIN
- K.F.D. KITCHEN FLOOR DRAIN
- F.S. FLOOR SINK
- G.V. GATE VALVE
- H.C. HANDICAPPED
- H.D. HUB DRAIN
- H.B. HOSE BIBBS
- W.H. WALL HYDRANT
- R.D. ROOF DRAIN
- T.P. TRAP PRIMER
- V VENT
- VS VENT STACK
- VTR VENT THRU ROOF
- VSTR VENT STACK THRU ROOF
- VSTW VENT STACK THRU WALL
- W&V WASTE AND VENT

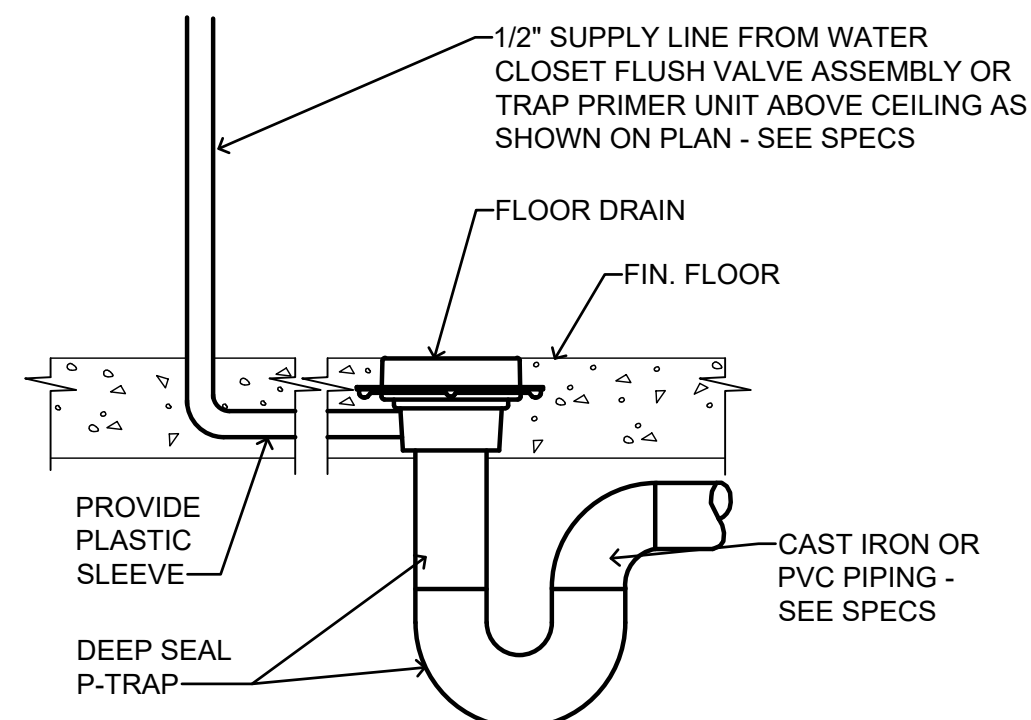
⊗ INDICATES POINT OF CONNECTION TO EXISTING

⊕ INDICATES POINT OF CONNECTION TO OUTSIDE UTILITY. SEE CIVIL DWGS.



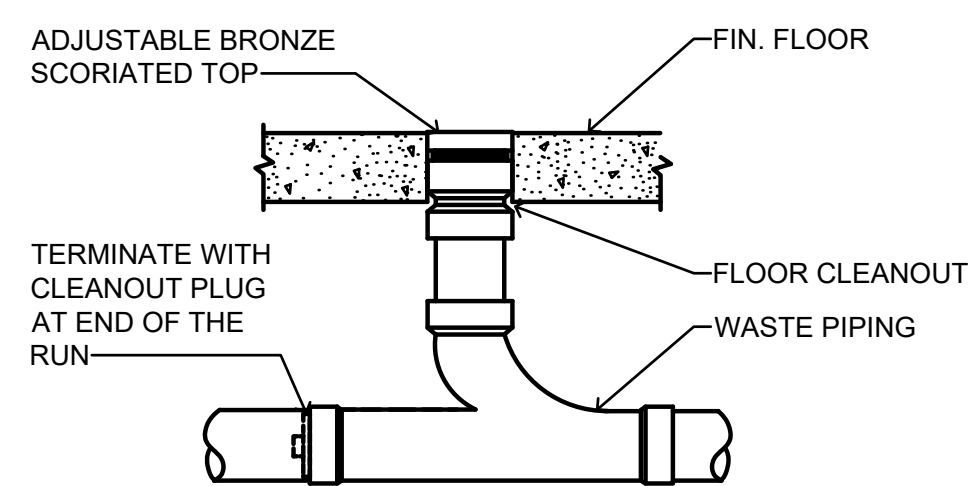
TYP. EXTERIOR CLEANOUT DETAIL

NO SCALE



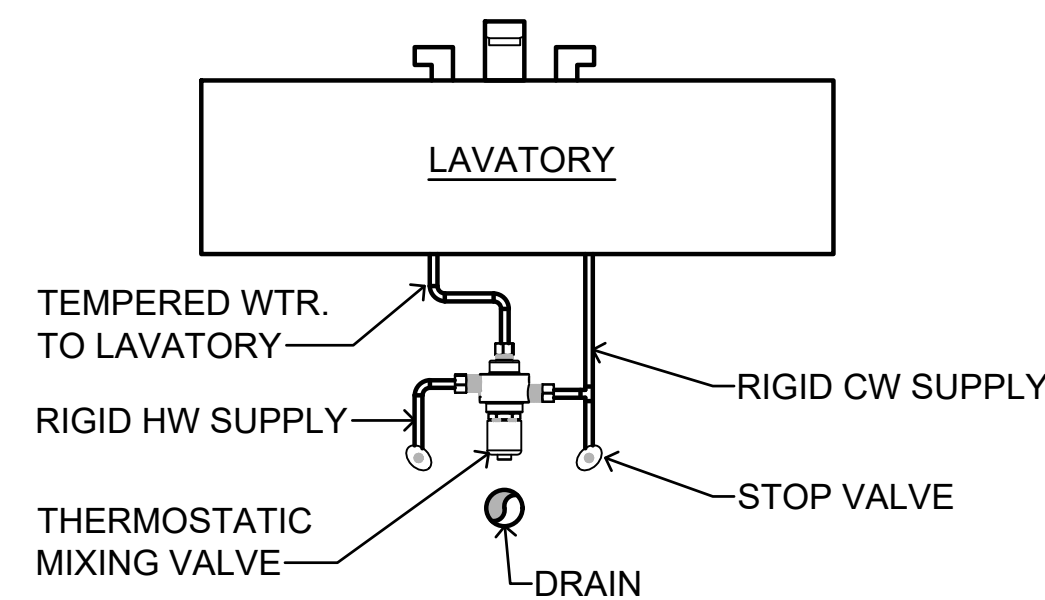
TRAP PRIMER DETAIL

NO SCALE



TYP. INTERIOR FLOOR CLEANOUT DETAIL

NO SCALE

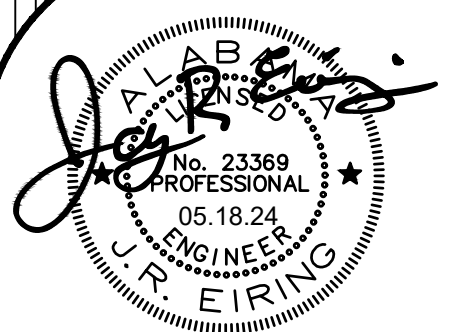


DETAIL OF TMV BELOW LAVATORY

NO SCALE

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SHEET TITLE : PLBG. SCHEDULES, NOTES & DETAILS

MCKEE JOB # : 23-251

DRAWN BY : C. WARD

CHECKED BY : T. ZGOUVAS

DATE : 05.18.2024

REVISED DATE :

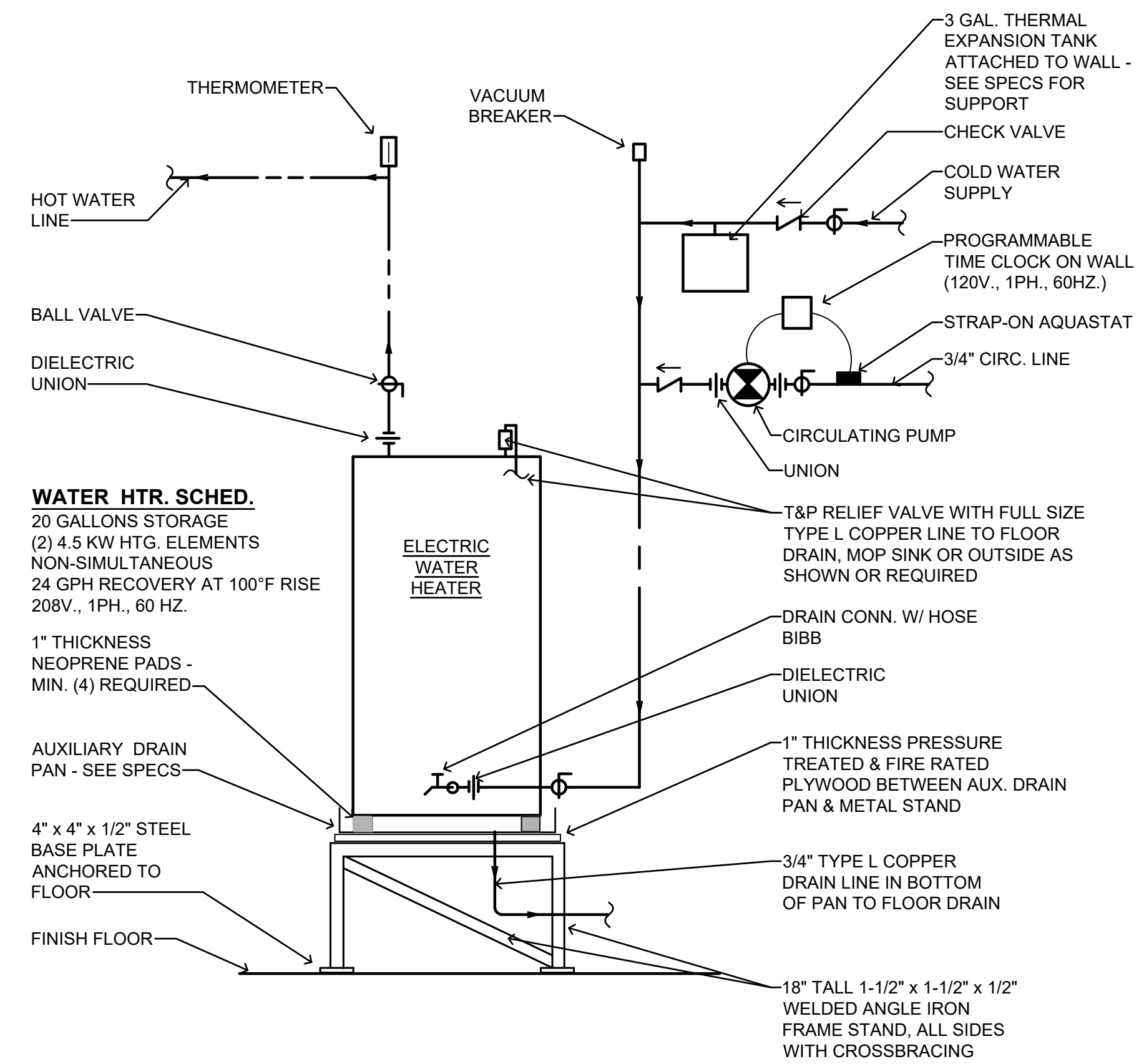
REVISED DATE :

REVISED DATE :



SHEET NO. :

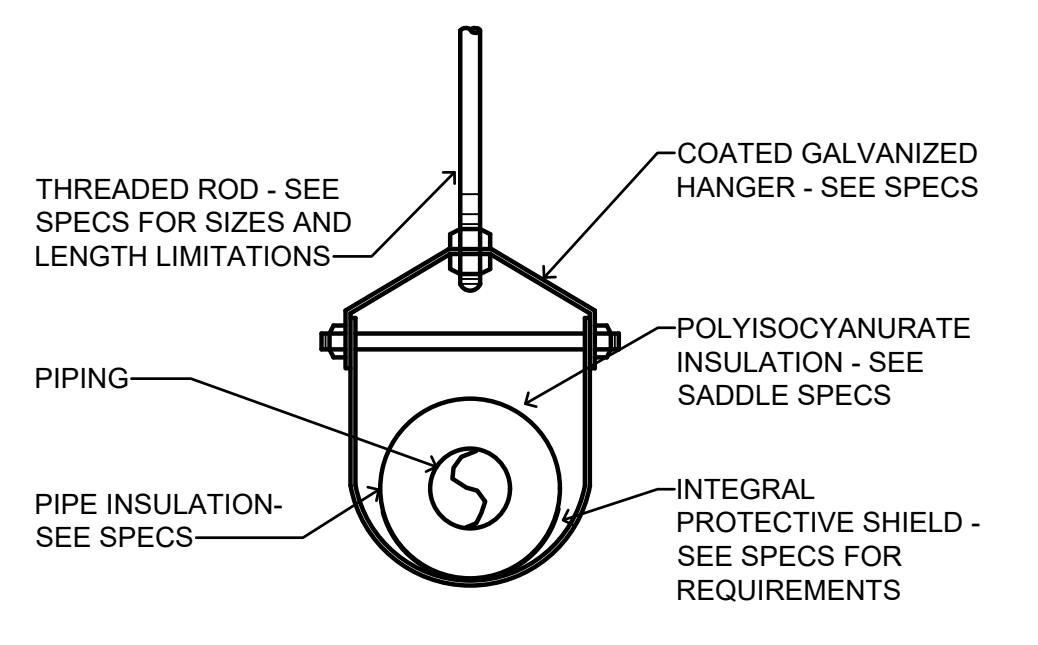
P1



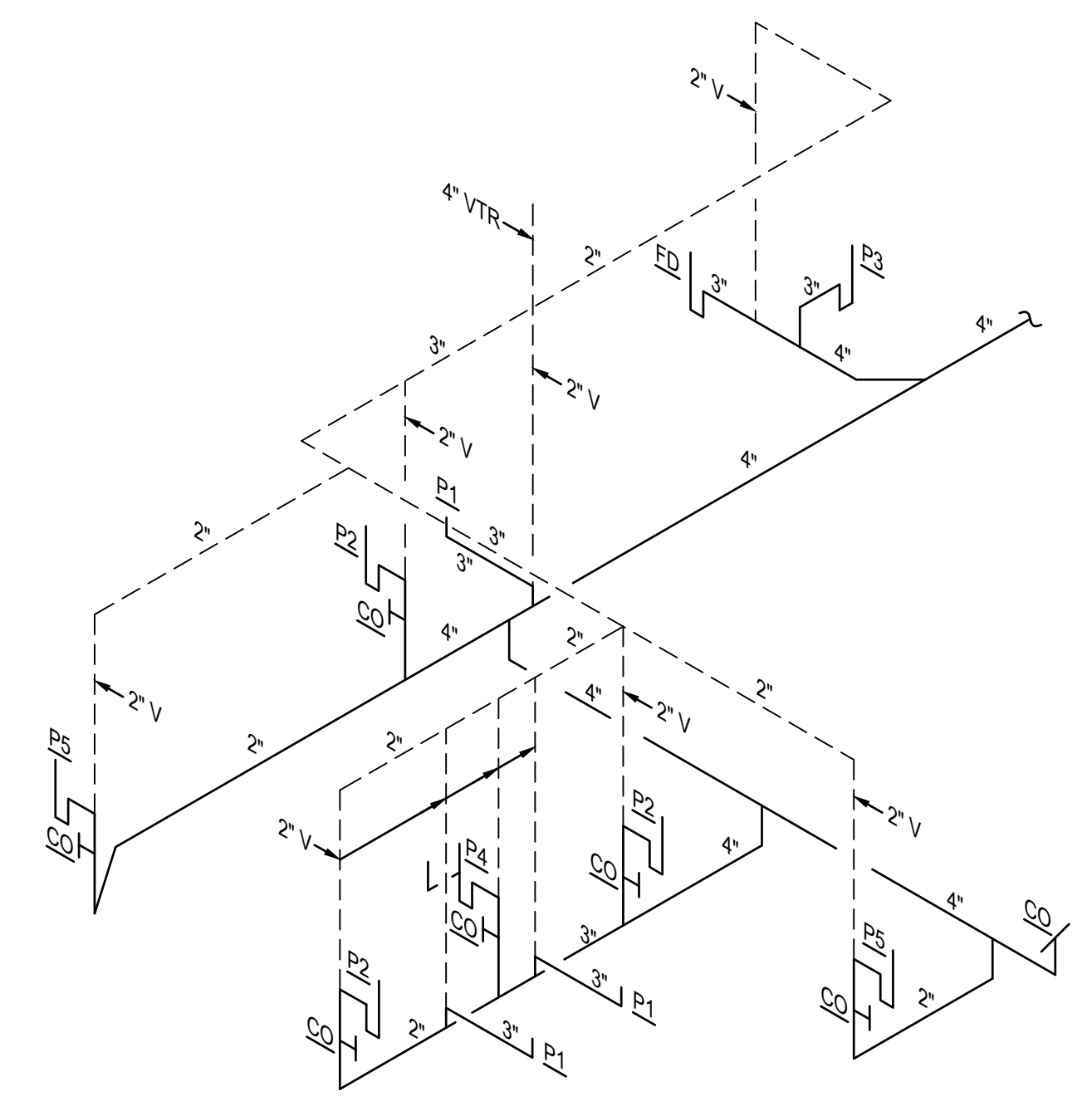
WATER HTR. SCHED.
 20 GALLONS STORAGE
 (2) 4.5 KW HTG. ELEMENTS
 NON-SIMULTANEOUS
 24 GPH RECOVERY AT 100°F RISE
 208V., 1PH., 60 HZ.
 1" THICKNESS
 NEOPRENE PADS -
 MIN. (4) REQUIRED
 AUXILIARY DRAIN
 PAN - SEE SPECS
 4" x 4" x 1/2" STEEL
 BASE PLATE
 ANCHORED TO
 FLOOR
 FINISH FLOOR

WATER HEATER DETAIL
 NO SCALE

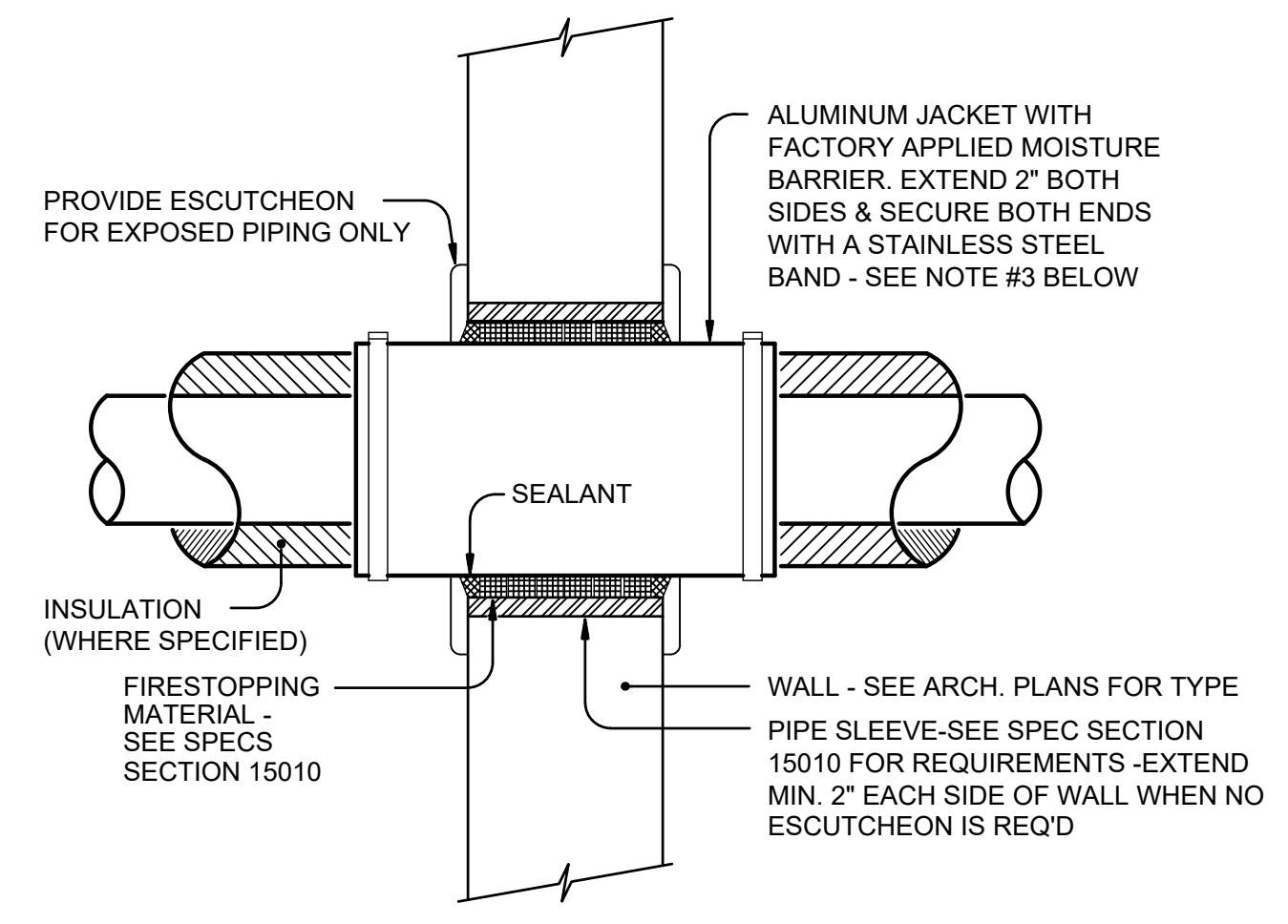
- NOTES:
1. PREFABRICATED STANDS ARE NOT ALLOWED. CONTRACTOR MAY SUBSTITUTE A 6" THICKNESS, 6,000 PSI HOUSEKEEPING PAD WITH ROUNDED EDGES IN PLACE OF THE ANGLE IRON STAND PROVIDED THE ARCHITECT APPROVES THE USE OF THE CONC. PAD.
 2. IF HOUSEKEEPING PAD IS PROVIDED, INSTALL 3/4" TREATED PLYWOOD BETWEEN AUX. PAN AND CONCRETE PAD - AUX. PAN SHALL NOT BE IN CONTACT WITH CONCRETE.
 3. IF HOUSEKEEPING PAD IS PROVIDED, NEOPRENE PADS THICKNESS SHALL BE AS REQUIRED TO RAISE BOTTOM OF WATER HEATER TO ABOVE DRAIN LINE DISCHARGE - MIN. 4 PADS REQUIRED.



TYPICAL PIPE HANGER DETAIL
 NO SCALE

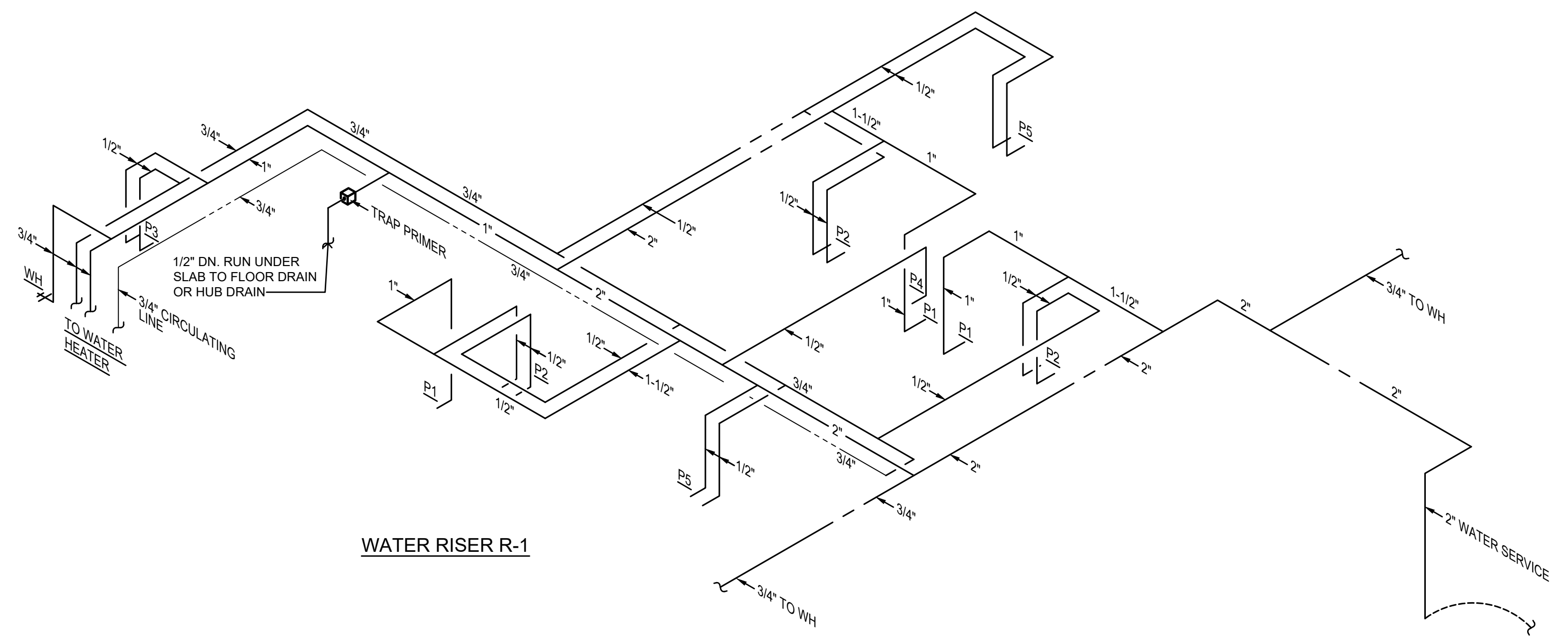


WASTE RISER WR-1



INTERIOR WALL PIPE PENETRATION DETAIL
 NOT TO SCALE

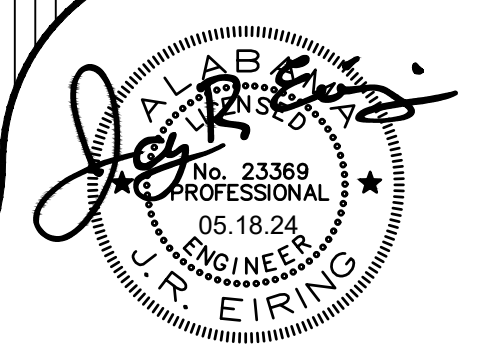
- NOTES:
1. DETAIL APPLIES TO ALL WATER PIPING.
 2. SEE SPECS FOR SLEEVE REQUIREMENTS
 3. OMIT ALUMINUM JACKET IF PIPING IS UNINSULATED
 4. ONLY ONE PIPE PER SLEEVE ALLOWED.
 5. WHERE PIPING IS EXPOSED IN FINISHED AREAS, PROVIDE ESCUTCHEONS OVER PENETRATIONS AND DELETE REQUIREMENT FOR EXTENDING SLEEVE 2" ON EACH SIDE. ALUMINUM JACKET IS STILL REQUIRED.



WATER RISER R-1

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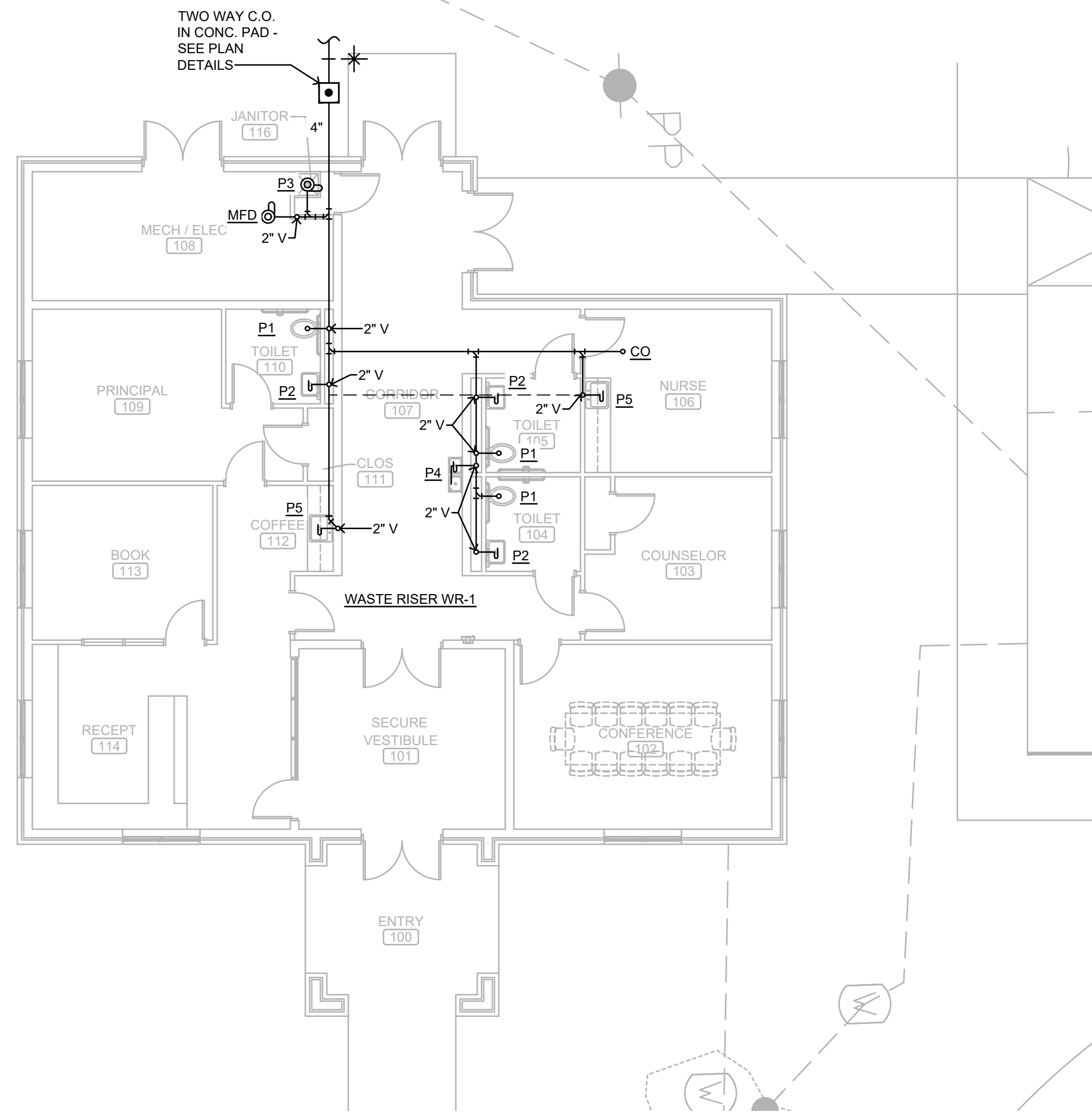
MCKEE and ASSOCIATES
 ARCHITECTS, INC.
 631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



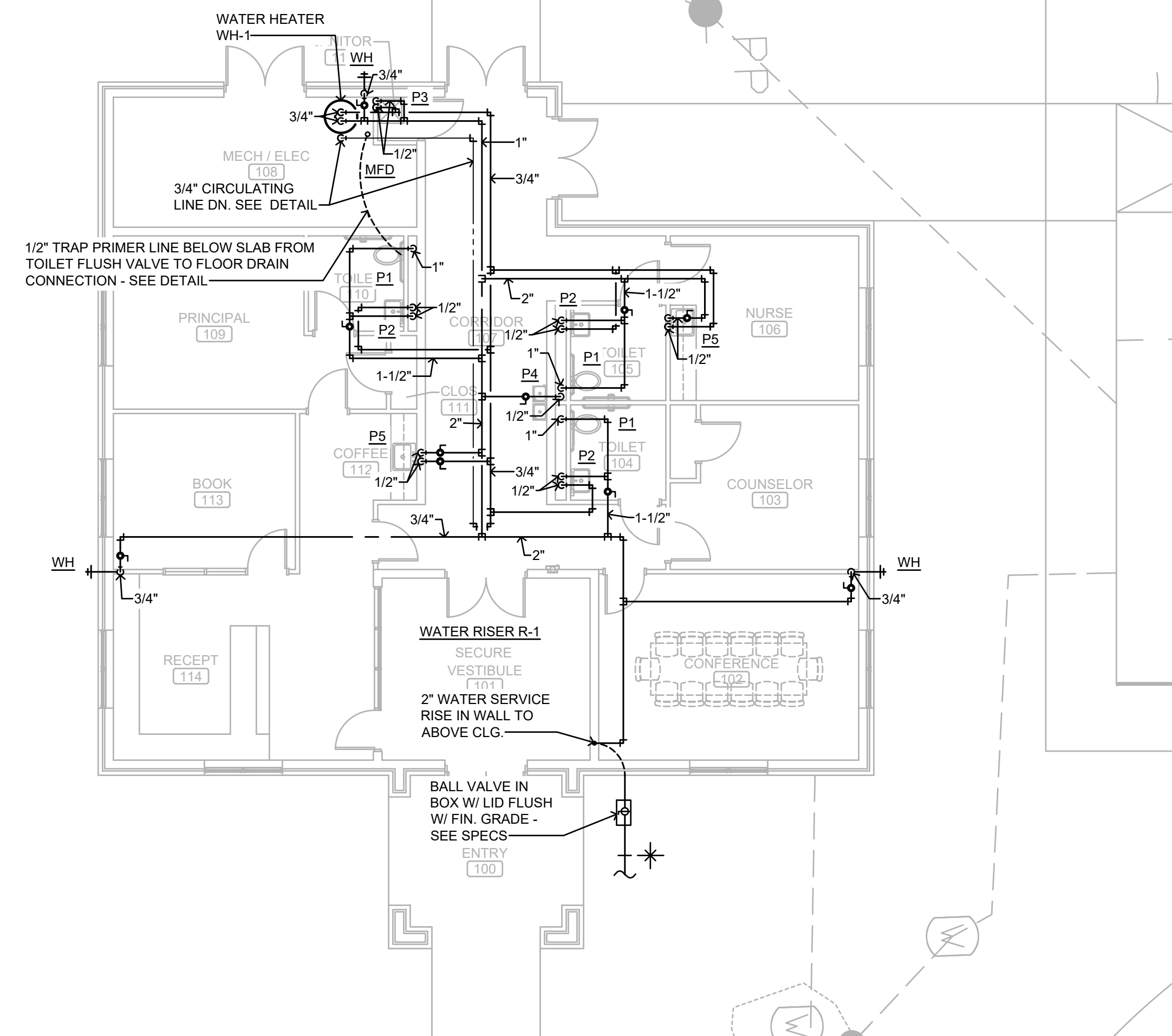
SHEET TITLE : PLBG. DETAILS AND RISERS
 MCKEE JOB # : 23-251
 DRAWN BY : C. WARD
 CHECKED BY : T. ZGOUVAS
 DATE : 05.18.2024
 REVISED DATE :
 REVISED DATE :
 REVISED DATE :



SHEET NO. : **P2**



N
 W E S
 SHOWING WASTE PIPING
PLBG. FLOOR PLAN
 SCALE: 1/8" = 1'-0"
 0' 2' 4' 8' 16' 32'



N
 W E S
 SHOWING WATER PIPING
PLBG. FLOOR PLAN
 SCALE: 1/8" = 1'-0"
 0' 2' 4' 8' 16' 32'

NEW ADMIN BUILDING
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MCKEE and ASSOCIATES
 ARCHITECTS, INC.
 631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933

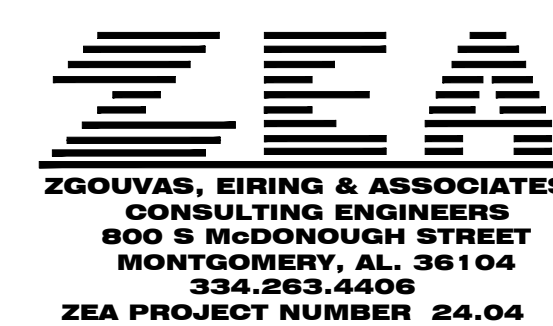


SHEET TITLE : PLBG. FLOOR PLANS

 MCKEE JOB # : 23-251
 DRAWN BY : C. WARD
 CHECKED BY : T. ZGOUVAS

 DATE : 05.18.2024

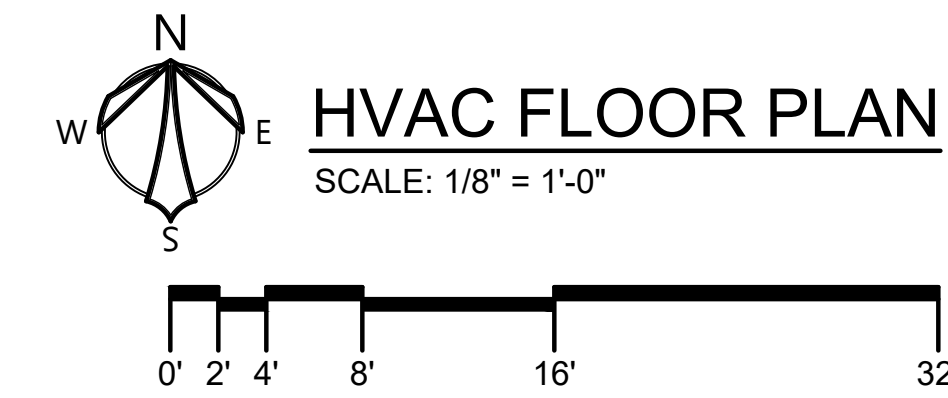
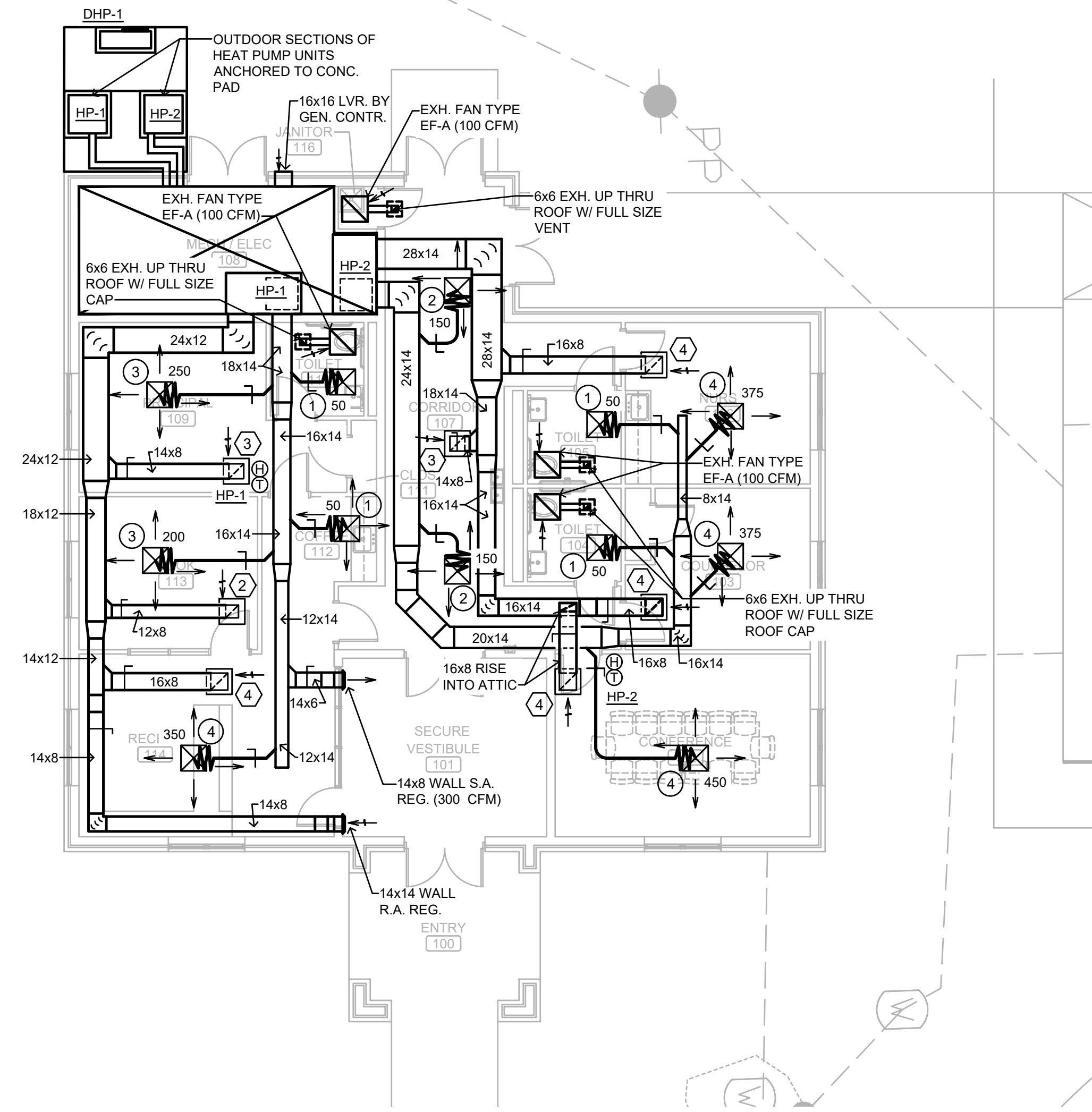
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SHEET NO. : **P3**

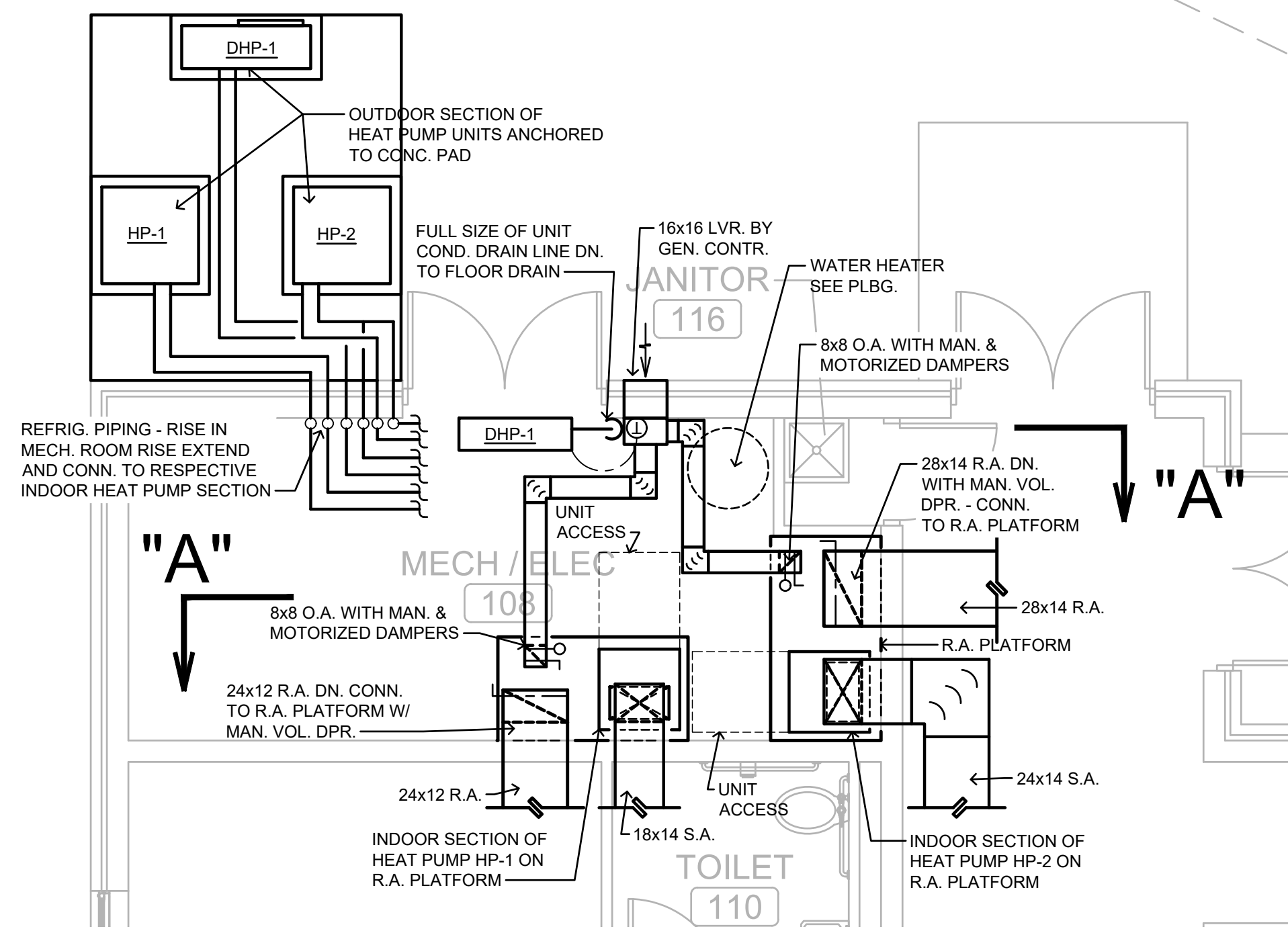
LEGEND

| | | | |
|--|---|--|---|
| | MANUAL VOLUME DAMPER (MVD) | | CEILING DIFFUSER DESIGNATOR |
| | MOTORIZED DAMPER (MD) | | RETURN AIR GRILLE/REGISTER |
| | SMOKE DETECTOR | | EXHAUST AIR GRILLE/REGISTER |
| | CEILING DIFFUSER | | AUXILIARY DRAIN |
| | RETURN AIR GRILLE/REGISTER EXHAUST AIR GRILLE/REGISTER | | THERMOSTAT |
| | DUCT W/ RECTANGULAR SIZE | | HUMIDISTAT |
| | RECTANGULAR SUPPLY DUCT TURNING UP | | A.B.F.F. |
| | RECTANGULAR SUPPLY AIR DUCT TURNING DOWN | | C.D. |
| | RECTANGULAR RETURN AIR OR EXHAUST DUCT TURNING UP | | C.L.G. |
| | | | F.D. |
| | | | G.C. |
| | | | O.A. |
| | | | R.A. |
| | | | S.A. |
| | | | RECTANGULAR RETURN AIR OR EXHAUST DUCT TURNING DOWN |
| | | | RECTANGULAR SUPPLY AIR DUCT FLOOR OR ROOF PENETRATION |
| | | | RECTANGULAR RETURN OR EXHAUST AIR DUCT FLOOR OR ROOF PENETRATION |



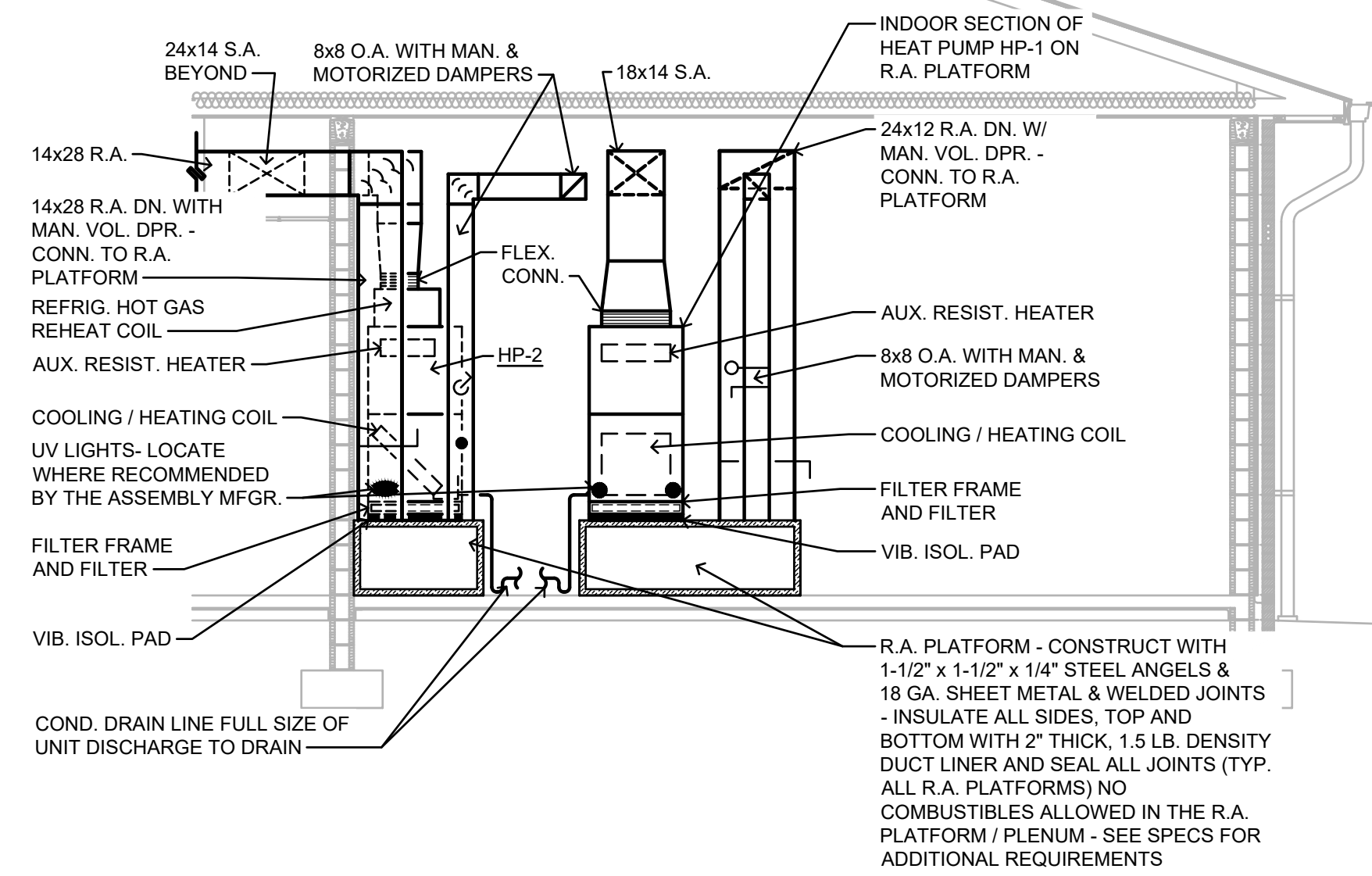
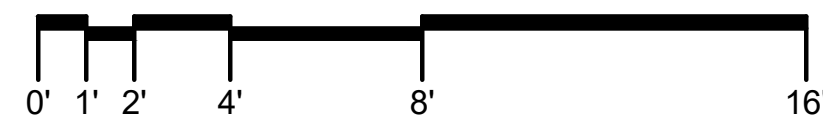
HVAC FLOOR PLAN

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



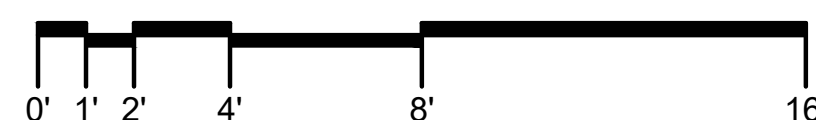
LARGE SCALE MECH. ROOM 108

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



SECTION "A"

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

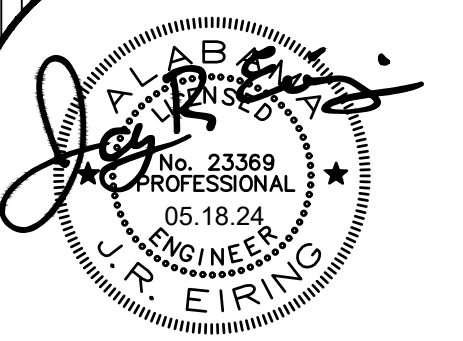


**NEW ADMIN BUILDING
AT
RED BAY HIGH SCHOOL**

**FOR THE
FRANKLIN COUNTY BOARD OF EDUCATION**

**MCKEE and ASSOCIATES
ARCHITECTS, INC.**

631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : HVAC FLOOR PLAN

MCKEE JOB # : 23-251

DRAWN BY : C. WARD

CHECKED BY : T. ZGOUVAS

DATE : 05.18.2024

REVISED DATE :

REVISED DATE :

REVISED DATE :



SHEET NO. :

M1

SPLIT SYSTEM HEAT PUMP UNITS SCHEDULE

| | | |
|---|------------------------------|-----------------------------|
| UNIT NUMBER OR TYPE | HP-1 | HP-2 |
| MINIMUM TOTAL AIR CFM | 1200 | 1600 |
| MINIMUM OUTSIDE AIR SETPOINT/MAX. CO2 SETPOINT/MAX. O.A. (ECONOMIZER) CFM | 150 / N/A / N/A | 250 / N/A / N/A |
| APPROXIMATE EXTERNAL STATIC PRESSURE - IN. WATER COLUMN | 0.90 | 0.81 |
| APPROXIMATE INDOOR FAN MOTOR HP-POWER | 3/4 HP - 208V., 3PH., 60HZ., | 1.0 HP - 208V., 3PH., 60HZ. |
| MINIMUM TOTAL COOLING CAPACITY AT A.R.I. CONDITIONS-BTU/HR | 36,000 | 48,000 |
| MINIMUM HEATING CAPACITY (COMPRESSOR ONLY) AT 70°F | | |
| INDOOR TEMPERATURE AND 22°F OUTDOOR TEMPERATURE-BTU/HR | 36,000 | 30,000 |
| MINIMUM AUXILIARY ELECTRIC RESISTANCE HEAT - KW | 10.0 | 12.0 |
| NUMBER OF CONTROL STEPS | TWO | TWO |
| POWER | 208V., 3PH., 60HZ. | 208V., 3PH., 60HZ. |
| APPROXIMATE COMPRESSOR MOTOR(S) F.L.A. - POWER | 11.0 - 208V., 3PH., 60HZ. | 15.0 - 208V., 3PH., 60HZ. |
| APPROXIMATE OUTDOOR SECTION FAN MOTOR(S) F.L.A. - POWER | 1.5 - 208V., 3PH., 60HZ. | 2.1 - 208V., 3PH., 60HZ. |
| MINIMUM ENERGY EFFICIENCY RATING AT A.H.R.I. CONDITIONS | 14.0 SEER | 14.0 SEER |
| MINIMUM HSPF | 8.2 | 8.2 |

NOTES:

- ALL INDOOR UNITS SHALL BE FACTORY WIRED FOR SINGLE POINT POWER CONNECTIONS (FAN AND HEATER).
- 208 VOLT, 3 PHASE POWER IS BEING PROVIDED BY ELECTRICAL TO THE INDOOR HEAT PUMP UNIT SECTIONS. UNIT MANUFACTURER SHALL PROVIDE FACTORY INSTALLED RELAYS, TRANSFORMERS, ETC., AS REQUIRED TO OPERATE EQUIPMENT AT POWER REQUIREMENTS SPECIFIED ABOVE.
- SEER RATINGS BASED ON AHRI 210/240
- HSPF RATING BASED ON AHRI 210/240
- EACH UNIT WITH SCHEDULED COOLING CAPACITY GREATER THAN 40.0 MBH SHALL BE PROVIDED WITH A REFRIGERANT HOT GAS REHEAT COIL COMPLETE WITH REFRIGERANT PIPING, PIPE INSULATION, VALVES, CONTROLS, ETC. REQUIRED FOR HUMIDITY CONTROL - PROVIDE MANUAL REFRIGERANT ISOLATION VALVES FOR HOT GAS AND LIQUID LINES - FURNISH FOR APPROVAL DETAILED REFRIGERANT PIPING CONN. DIAGRAM AND CONTROL WIRING DIAGRAM - PRIOR TO SUBMITTING THE DIAGRAM OBTAIN EQUIPMENT MANUFACTURER'S APPROVAL. SEE SPECS FOR ADDITIONAL REQUIREMENTS

FANS SCHEDULE

| | |
|---|---|
| FAN TYPE | EF-A |
| C.F.M. | 100 |
| MINIMUM FAN SIZE - INCHES | 8.0 |
| APPROX. FAN ROOF/WALL OPENING - INCHES | N/A |
| MAXIMUM FAN SPEED - RPM | 1050 |
| APPROX. EXTERNAL STATIC PRESSURE - IN. OF WATER | .30 |
| MINIMUM FAN MOTOR H.P. - POWER | 84 WATTS - 120V, 1PH., 60 HZ. |
| CONTROL INTERLOCK | LIGHTING CIRCUIT |
| DESCRIPTION | CEILING MOUNTED, CENTRIFUGAL, DIRECT DRIVEN |

EXHAUST/RETURN AIR REGISTER SCHEDULE

| SYMBOL | CFM RANGE | SIZE - IN. x IN. | DESCRIPTION | MAXIMUM NC RATING | BRANCH DUCT SIZE |
|--------|-------------|------------------|-----------------------------|-------------------|------------------|
| 1 | 0 - 140 | 9x9 | CEILING EXH. OR RETURN REG. | 20 | 9x6 |
| 2 | 141 - 240 | 12x12 | CEILING EXH. OR RETURN REG. | 20 | 12x7 |
| 3 | 241 - 340 | 14x14 | CEILING EXH. OR RETURN REG. | 20 | 14x7 |
| 4 | 341 - 460 | 16x16 | CEILING EXH. OR RETURN REG. | 20 | 16x9 |
| 5 | 461 - 600 | 18x18 | CEILING EXH. OR RETURN REG. | 20 | 18x10 |
| 6 | 601 - 760 | 20x20 | CEILING EXH. OR RETURN REG. | 20 | 20x12 |
| 7 | 761 - 940 | 24x24 | CEILING EXH. OR RETURN REG. | 20 | 24x12 |
| 8 | 941 - 1200 | 30x24 | CEILING EXH. OR RETURN REG. | 20 | 24x14 |
| 9 | 1201 - 1400 | 36x24 | CEILING EXH. OR RETURN REG. | 20 | 28x14 |

NOTES

- RUNOUTS/BRANCH DUCTS SHALL BE AS SCHEDULED ABOVE UNLESS NOTED OTHERWISE ON THE PLANS.
- 8 & 9 SHALL BE IN INTEGRAL 48x24 METAL CEILING PANEL AS SPECIFIED. ALL OTHERS SHALL BE IN INTEGRAL 24x24 METAL CEILING PANEL AS SPECIFIED.
- CONTRACTOR SHALL INSULATE THE BACK SIDE OF CEILING MOUNTED EXHAUST & RETURN AIR GRILLES/REGISTERS WITH 1" THICKNESS EXTERNAL DUCT INSULATION WITH CHARACTERISTICS SPECIFIED FOR EXTERNAL DUCT INSULATION.

CEILING DIFFUSER SCHEDULE

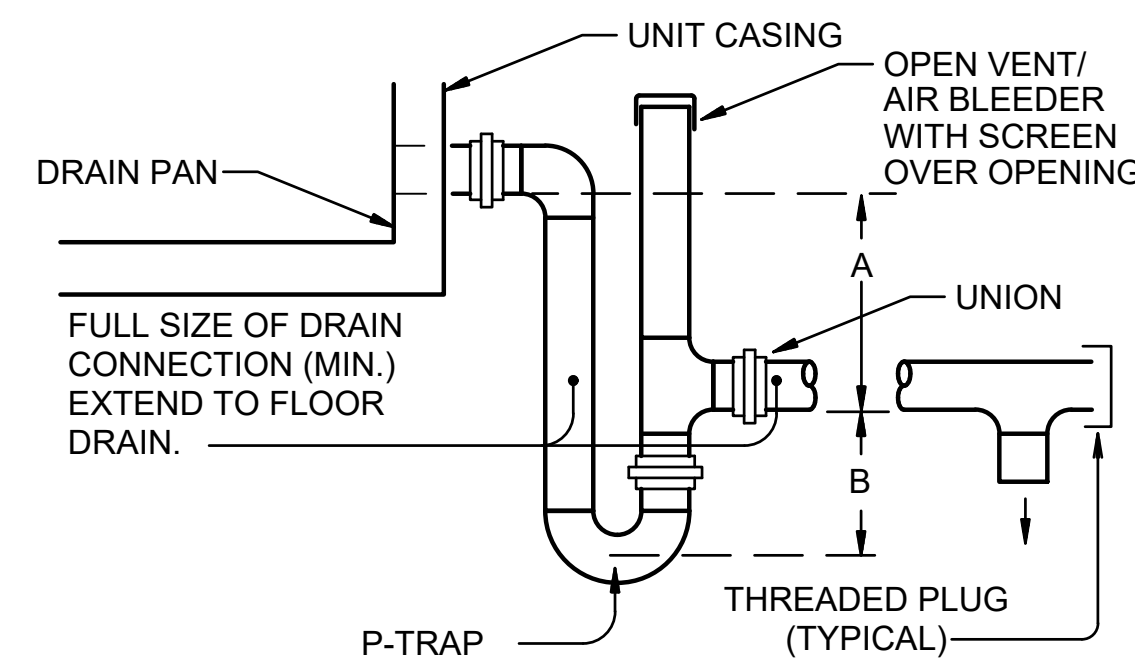
| SYMBOL | CFM RANGE | NECK SIZE INCHES | FACE SIZE INCHES | BRANCH DUCT SIZE | MAXIMUM NC VALUE | BASIS OF DESIGN |
|--------|-----------|------------------|------------------|------------------|------------------|-----------------|
| 1 | 10 - 95 | 6" ROUND | 24x24 | 6"Ø | 20 | TITUS TMS |
| 2 | 100 - 180 | 8" ROUND | 24x24 | 8"Ø | 20 | TITUS TMS |
| 3 | 185 - 270 | 10" ROUND | 24x24 | 10"Ø | 20 | TITUS TMS |
| 4 | 275 - 400 | 12" ROUND | 24x24 | 12"Ø | 20 | TITUS TMS |
| 5 | 405 - 530 | 14" ROUND | 24x24 | 14"Ø | 20 | TITUS TMS |
| 6 | 535 - 625 | 15" ROUND | 24x24 | 15"Ø | 20 | TITUS TMS |

NOTES

- RUNOUTS/BRANCH DUCTS SHALL BE AS SCHEDULED ABOVE UNLESS NOTED OTHERWISE ON THE PLANS
- CONTRACTOR SHALL INSULATE THE EXTERIOR (BACK SIDE OF DIFFUSER PANEL) WITH 1" THICKNESS EXTERNAL DUCT INSULATION WITH CHARACTERISTICS SPECIFIED FOR EXTERNAL DUCT INSULATION.

WALL MOUNTED DUCTLESS HEAT PUMP UNIT SCHEDULE

| | |
|---|--------------------------------|
| UNIT TYPE | DHP-A |
| MINIMUM TOTAL COOLING CAP. AT A.R.I. CONDITIONS - BTU/HR | 12,000 |
| MINIMUM HEATING CAP. (COMPRESSOR ONLY) AT 70°F INDOOR & 47°F AMBIENT - BTU/HR | 14,000 |
| INDOOR FAN CFM AT HIGH SPEED (WET COIL) | 380 |
| INDOOR UNIT MCA - POWER | 1.5 A - 208 V., 1 PH., 60 HZ. |
| OUTDOOR UNIT MCA (COMPRESSOR AND COND. FAN) - POWER | 11.0 A - 208 V., 1 PH., 60 HZ. |
| OUTDOOR UNIT MOP (COMPRESSOR AND COND. FAN) - POWER | 28.0 A - 208 V., 1 PH., 60 HZ. |
| MINIMUM HSPF AT AHRI 210/240 CONDS. | 10.2 |
| MINIMUM S.E.E.R. AT AHRI 210/240 CONDS | 20.8 |
| BASIS OF DESIGN | mitsubishi PKA / PUZ |



| UNIT TYPE | A | B |
|-----------|-------------|-------------|
| DRAW-THRU | 2" PLUS "X" | "X" PLUS 1" |
| BLOW-THRU | 1" MINIMUM | 2X PLUS 1" |

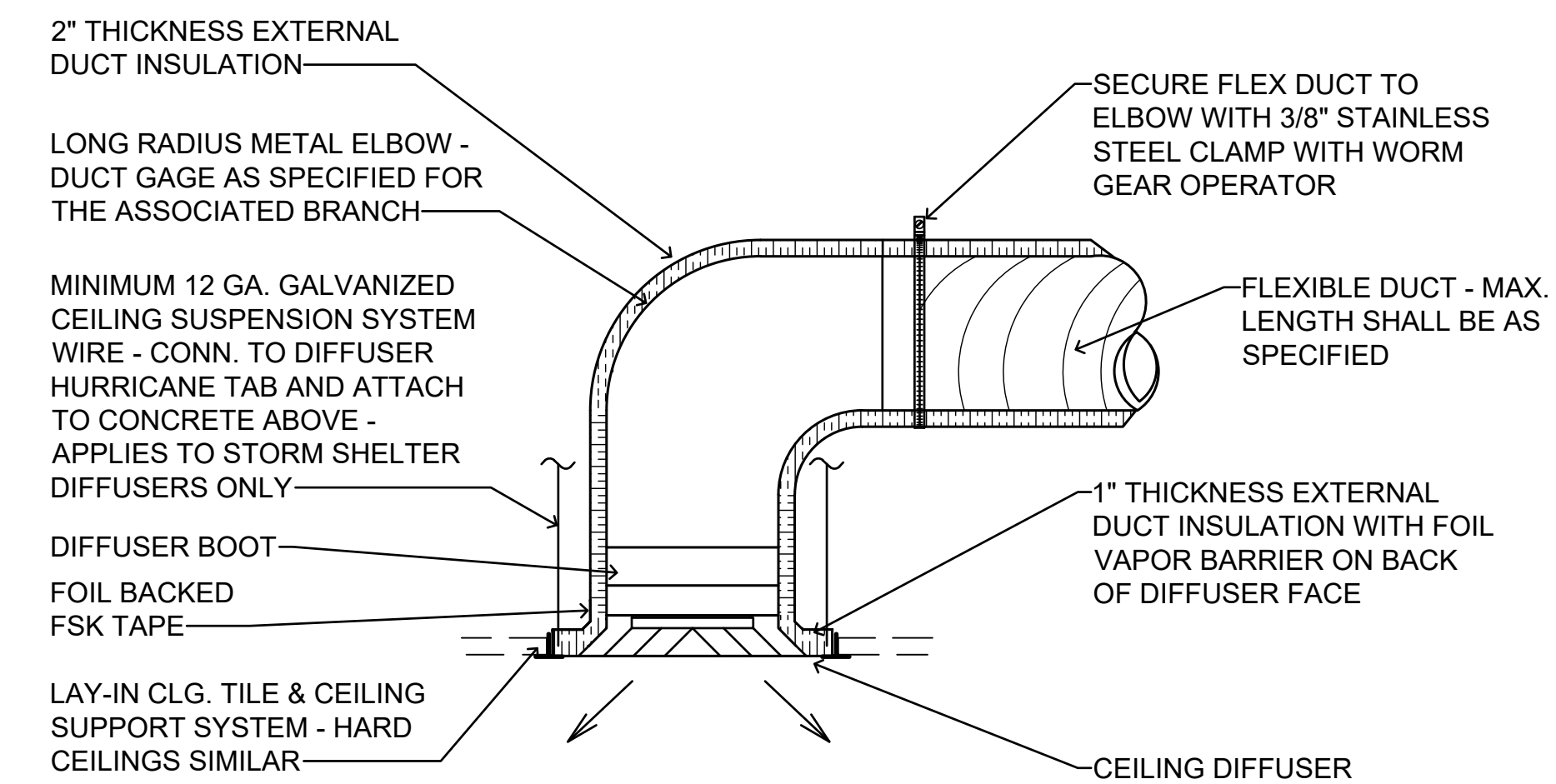
WHERE "X" = UNIT STATIC PRESSURE

TYPICAL AIR HANDLING UNIT CONDENSATE DRAIN DETAIL

NOT TO SCALE

NOTES:

- CONTRACTOR SHALL PROVIDE DRAIN ARRANGEMENT AS REQUIRED BY THE UNIT MANUFACTURER. IN ABSENCE OF THOSE REQUIREMENTS, CONTRACTOR SHALL PROVIDE DRAIN AS DETAILED ABOVE
- CONTRACTOR SHALL RAISE THE RESPECTIVE UNIT AS REQUIRED TO ALLOW FOR INSTALLATION OF THE DRAIN AS DETAILED ABOVE
- PROVIDE AN ELECTRIC SWITCH IN THE AUXILIARY CONDENSATE DRAIN LINE ON THE UNIT, THAT CONFORMS TO UL 508, TO SHUT DOWN THE UNIT AND ALARM TO THE BUILDING ENERGY MANAGEMENT SYSTEM (BAS) OPERATOR CONSOLE (IF APPLICABLE) SHOULD THE LINE BECOME OBSTRUCTED



DIFFUSER BOOT/PLENUM CONNECTION DETAIL

NOT TO SCALE

- DIFFUSERS PANELS SHALL BE INSULATED PRIOR TO INSTALLING INTO THE CEILING GRID
- DO NOT COVER STAINLESS STEEL BAND AND WORM GEAR OPERATOR UNTIL ENGINEER HAS INSPECTED THE INSTALLATION.

ZEA
ZGOUVAS, EIRING & ASSOCIATES
CONSULTING ENGINEERS
800 S. McDONOUGH STREET
MONTGOMERY, AL. 36104
334.263.4406
ZEA PROJECT NUMBER 24.04

SHEET TITLE: HVAC SCHEDULES AND DETAILS

MCKEE JOB #: 23-251

DRAWN BY: C. WARD

CHECKED BY: T. ZGOUVAS

DATE: 05.18.2024

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO.:

M2

NEW ADMIN BUILDING

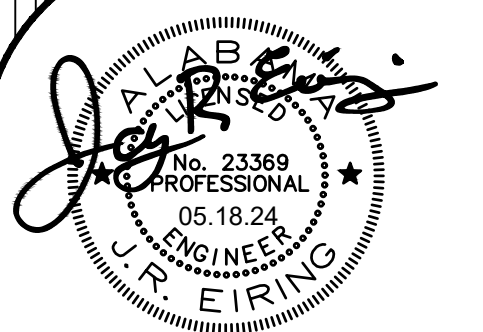
AT
RED BAY HIGH SCHOOL

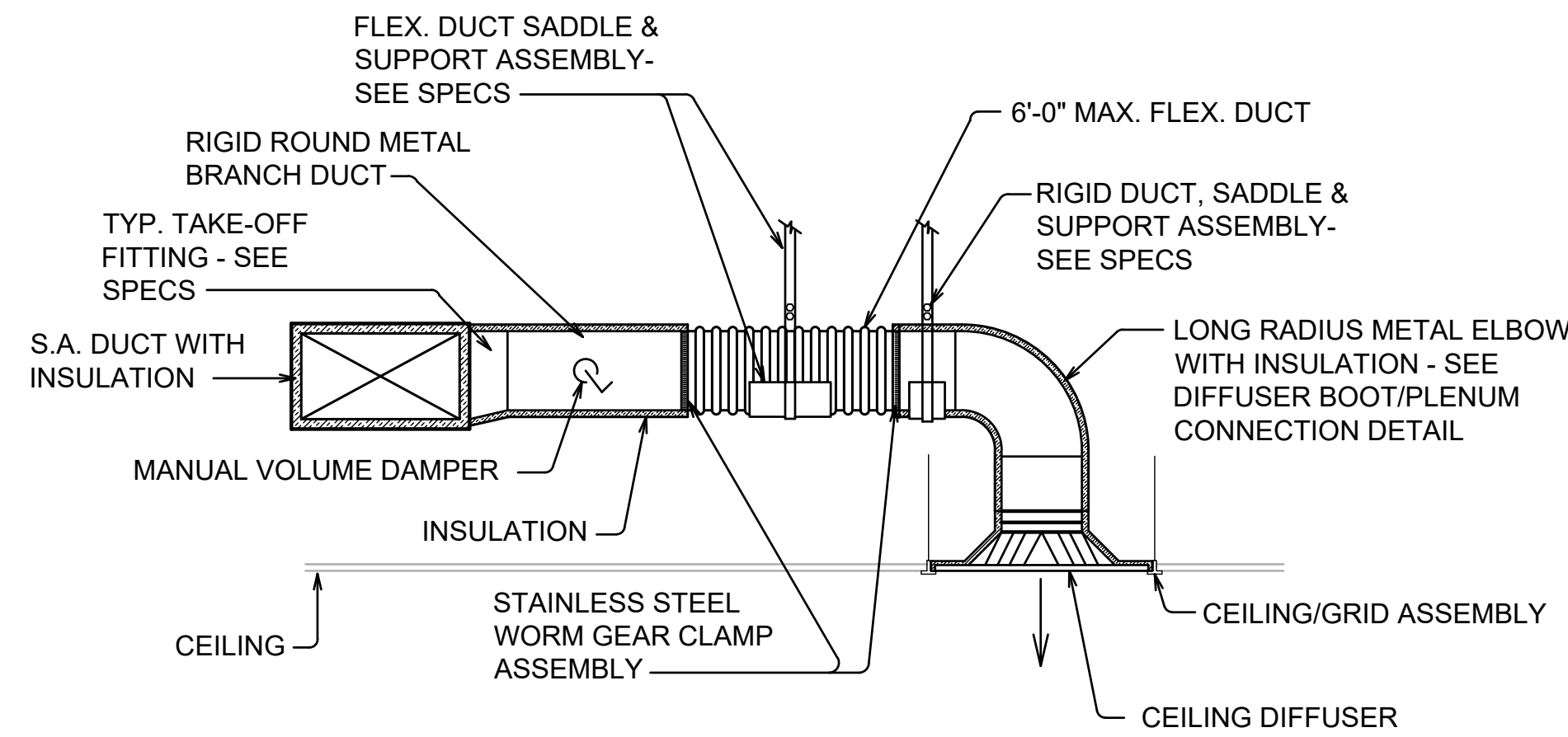
FOR THE

FRANKLIN COUNTY BOARD OF EDUCATION

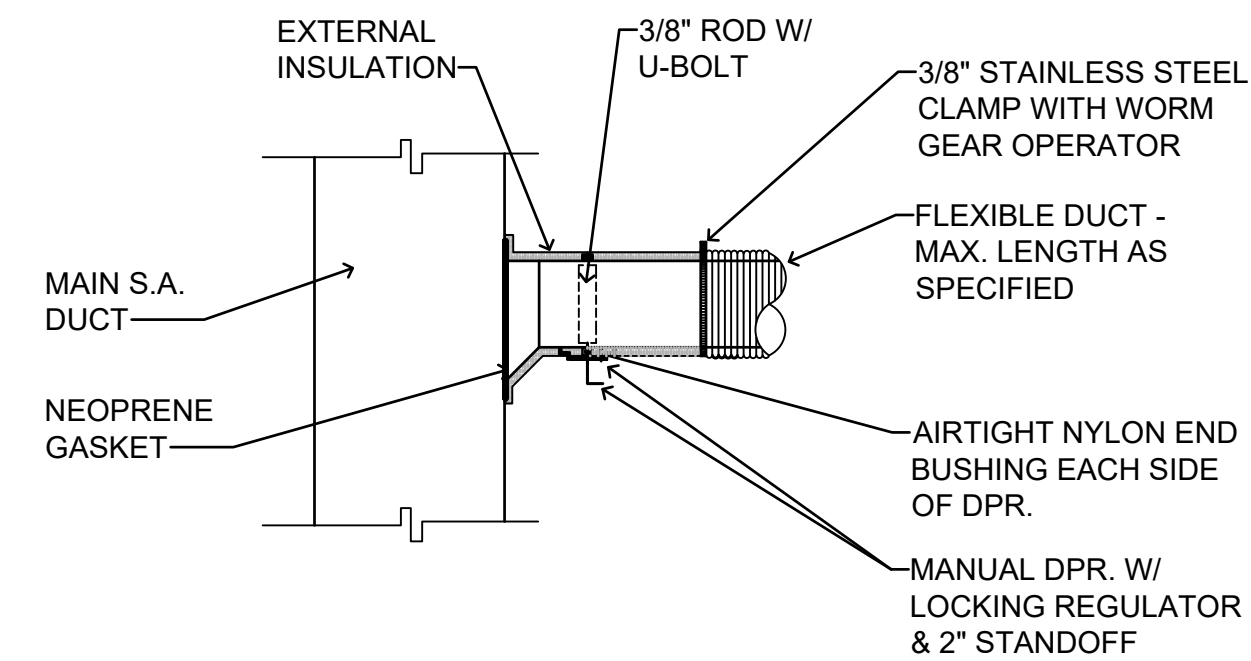
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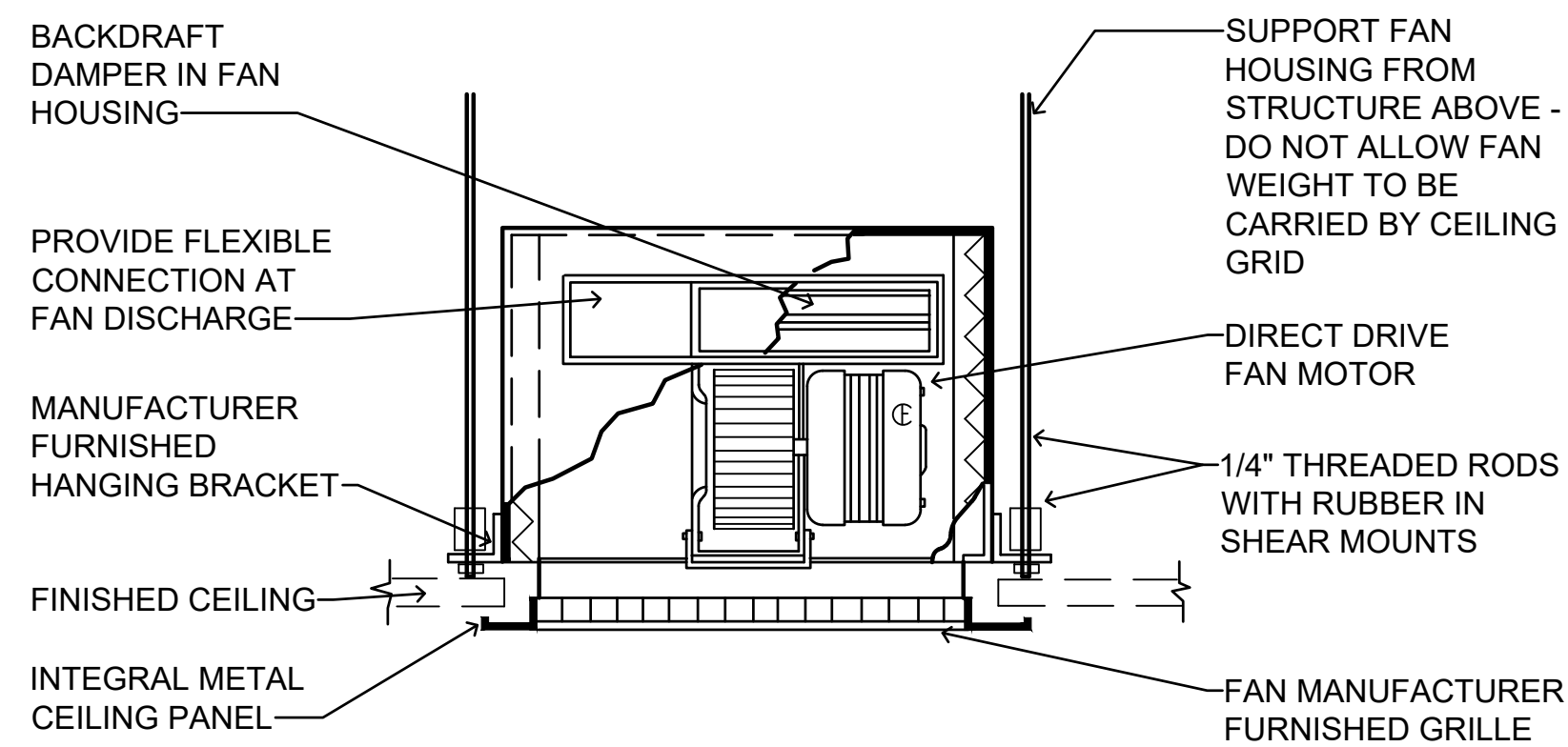




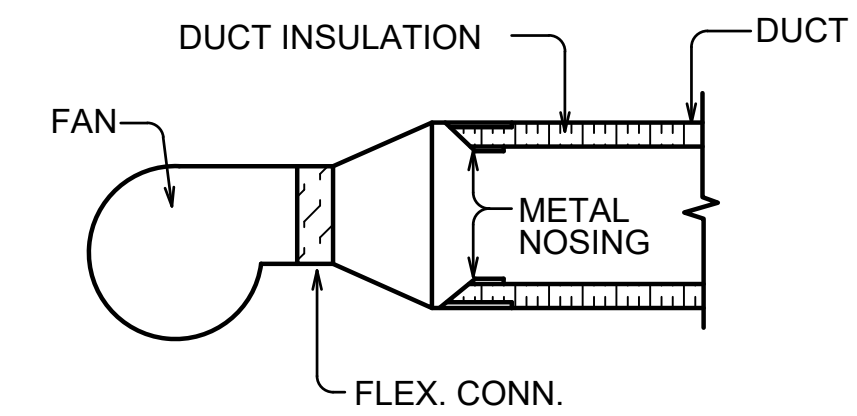
TYPICAL DIFFUSER RUN-OUT CONN.
NOT TO SCALE



ROUND BRANCH DUCT TAKE-OFF DETAIL
NOT TO SCALE
RECTANGULAR RUNOUTS SAME EXCEPT WITH RECTANGULAR DUCT

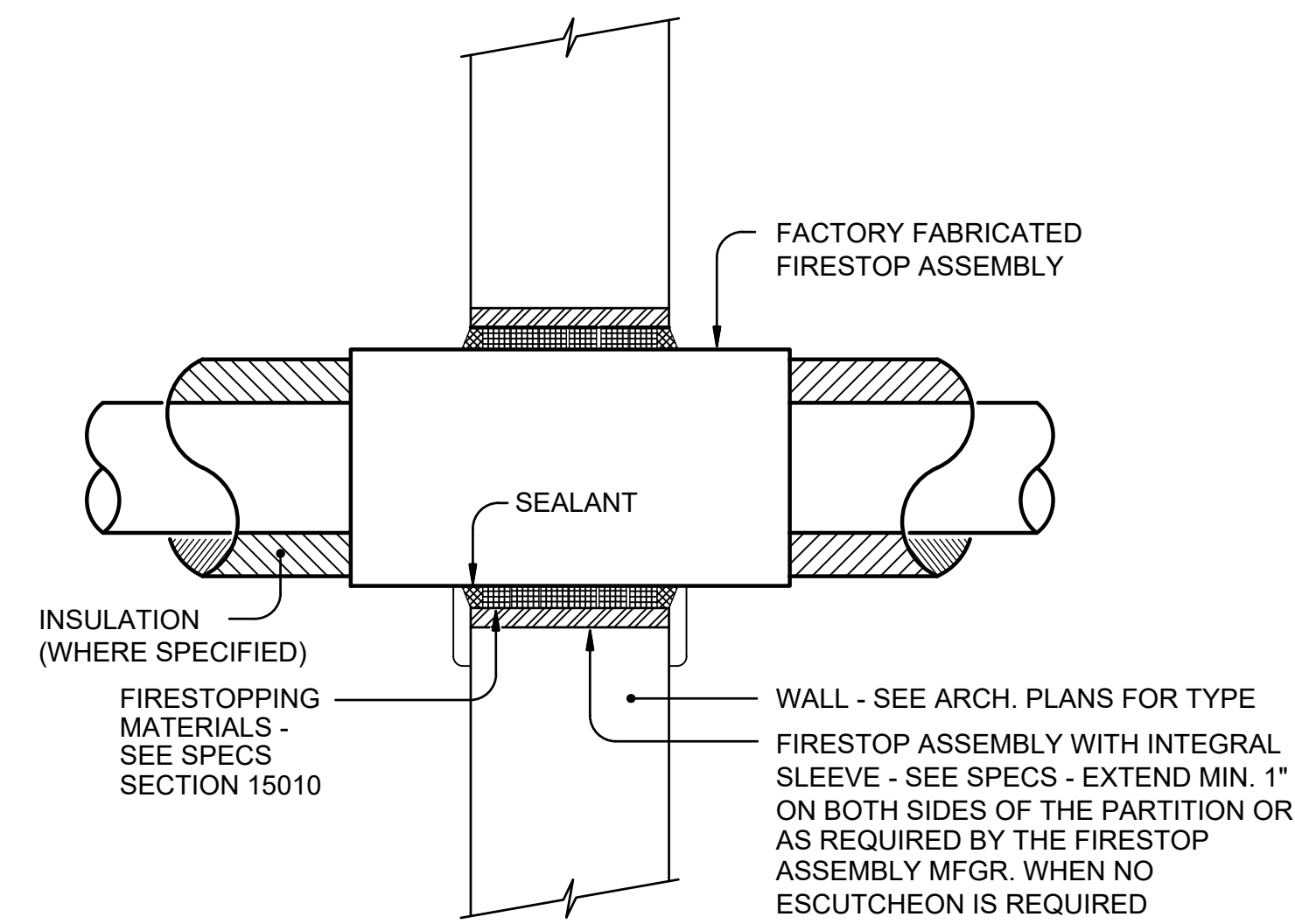


CEILING MOUNTED EXHAUST FAN CONN. DETAIL
NO SCALE



TYPICAL DUCT LINER INTERRUPTION DETAIL

NOT TO SCALE
NOTE !! THIS DETAIL APPLIES TO FIRE DAMPER INSTALLATION, WHERE DUCTS CONNECT TO FAN SECTION, ANYWHERE BARE DUCT LINER PROTRUDES INTO THE AIRSTREAM, ANY POINT WHERE LINED DUCT IS PRECEDED BY UNLINED DUCT, BARE DUCT INSULATION EDGES THAT ARE EXPOSED IN THE RETURN AIR PLENUM, ETC. - SEE SPECS FOR ADDITIONAL REQUIREMENTS



INTERIOR WALL REFRIGERANT AND CONDENSATE PIPING PENETRATION DETAIL

NOT TO SCALE

- NOTES:
1. DETAIL APPLIES TO ALL REFRIGERANT & CONDENSATE PIPING.
 2. SEE SPECS FOR FIRESTOPPING REQUIREMENTS
 3. ONLY ONE PIPE PER SLEEVE ALLOWED.
 4. WHERE PIPING IS EXPOSED IN FINISHED AREAS, PROVIDE ESCUTCHEONS OVER PENETRATIONS AND DELETE REQUIREMENT FOR EXTENDING OF THE FIRESTOP ASSEMBLY 1" ON EACH SIDE OF THE PARTITION. ALUMINUM JACKET IS STILL REQUIRED. DO NOT USE SPLIT TYPE ESCUTCHEONS. SEE SPECS

HP-1 OUTDOOR AIR AND EXHAUST CALCULATIONS

| | Area | Peo/1000SF | # People | CFM/SF | Area CFM | CFM/Person | People CFM | Voz | Ez | # Fixtures | CFM/Fixt | CFM/SF | Min Exhaust | Supply Air | Zp EQ 4-5 |
|--------------------------|-----------------|------------|----------|--------|-----------|------------|------------|-----------------------|---------------|------------|----------|--------|-------------|------------|-----------|
| PRINCIPAL 109 | 235 | 5 | 2 | 0.06 | 15 | 5 | 10 | 31.25 | 0.8 | | | | 0 | 200 | 0.15625 |
| BOOK 113 | 170 | 5 | 1 | 0.06 | 11 | 5 | 5 | 20 | 0.8 | | | | 0 | 150 | 0.133333 |
| RECEPT 114 | 280 | 5 | 2 | 0.06 | 17 | 5 | 10 | 33.75 | 0.8 | | | | 0 | 250 | 0.135 |
| COFFEE 112 | 90 | 5 | 1 | 0.06 | 6 | 5 | 5 | 13.75 | 0.8 | | | | 0 | 100 | 0.1375 |
| SECURE VESTIBULE 101 | 224 | 5 | 2 | 0.06 | 14 | 5 | 10 | 30 | 0.8 | | | | 0 | 250 | 0.12 |
| TOILET 110 | | | | | | | | | | 1 | 70 | | 70 | 50 | 0 |
| Total | | | 8 | | 63 | | 40 | | | | | | | | |
| | | | | | | | | Cumulative CFM | 128.75 | | | | | | |
| Max "Zp" | 0.15625 | | | | | | | | | | | | | | |
| "Ez" | 0.9 | | | | | | | | | | | | | | |
| "Vou" Total OSA EQ 4-6 | 128.75 | | | | | | | | | | | | | | |
| Total Building Occupancy | 8 | | | | | | | | | | | | | | |
| Zone Occupancy | 8 | | | | | | | | | | | | | | |
| "D" from EQ 4-7 | 1 | | | | | | | | | | | | | | |
| "Vol" Equation 4-8 | 143.0556 | | | | | | | | | | | | | | |
| TOTAL OSA | 143.0556 | | | | | | | | | | | | | | |

HP-2 OUTDOOR AIR AND EXHAUST CALCULATIONS

| | Area | Peo/1000SF | # People | CFM/SF | Area CFM | CFM/Person | People CFM | Voz | Ez | # Fixtures | CFM/Fixt | CFM/SF | Min Exhaust | Supply Air | Zp EQ 4-5 |
|--------------------------|-----------------|------------|-----------|--------|-----------|------------|------------|-----------------------|---------------|------------|----------|--------|-------------|------------|-----------|
| NURSE 106 | 185 | 5 | 1 | 0.06 | 12 | 5 | 5 | 21.25 | 0.8 | | | | 0 | 200 | 0.10625 |
| TOILET 104/105 | | | | | | | | | | 2 | 70 | | 140 | 100 | 0 |
| COUNSEL 103 | 185 | 5 | 1 | 0.06 | 12 | 5 | 5 | 21.25 | 0.8 | | | | 0 | 200 | 0.10625 |
| CONFERENCE 102 | 290 | 50 | 15 | 0.06 | 18 | 5 | 75 | 116.25 | 0.8 | | | | 0 | 500 | 0.2325 |
| CORRIDOR 107 | 500 | 0 | 0 | 0.06 | 30 | 5 | 0 | 37.5 | 0.8 | | | | 0 | 200 | 0.1875 |
| Total | | | 17 | | 42 | | 85 | | | | | | | | |
| | | | | | | | | Cumulative CFM | 196.25 | | | | | | |
| Max "Zp" | 0.2325 | | | | | | | | | | | | | | |
| "Ez" | 0.9 | | | | | | | | | | | | | | |
| "Vou" Total OSA EQ 4-6 | 196.25 | | | | | | | | | | | | | | |
| Total Building Occupancy | 21 | | | | | | | | | | | | | | |
| Zone Occupancy | 17 | | | | | | | | | | | | | | |
| "D" from EQ 4-7 | 1.235294 | | | | | | | | | | | | | | |
| "Vol" Equation 4-8 | 218.0556 | | | | | | | | | | | | | | |
| TOTAL OSA | 218.0556 | | | | | | | | | | | | | | |

SHEET TITLE : HVAC O.A. CALCULATIONS & DETAILS

MCKEE JOB # : 23-251

DRAWN BY : C. WARD

CHECKED BY : T. ZGOUVAS

DATE : 05.18.2024

REVISED DATE :

REVISED DATE :

REVISED DATE :



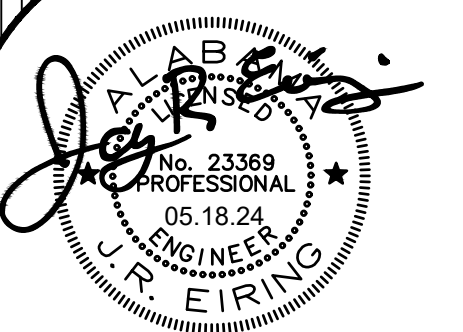
SHEET NO. :

M3

NEW ADMIN BUILDING
AT
RED BAY HIGH SCHOOL

FOR THE
FRANKLIN COUNTY BOARD OF EDUCATION

MCKEE and ASSOCIATES
ARCHITECTS, INC.
631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



ELECTRICAL LEGEND

CEILING OUTLETS

- A RECESSED 2' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL
- A RECESSED 2' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL "EMERGENCY POWER"
- FS SURFACE OR PENDANT MOUNTED LED STRIP FIXTURE MARK "FS" CIRCUIT No. 2 TYPICAL
- FS SURFACE OR PENDANT MOUNTED LED STRIP FIXTURE MARK "FS" CIRCUIT No. 2 TYPICAL "EMERGENCY POWER"
- RECESSED OR SURFACE MOUNT DOWNLIGHT
- RECESSED OR SURFACE MOUNT DOWNLIGHT "EMERGENCY POWER"
- JUNCTION BOX
- EXIT LIGHT
- EXHAUST FAN
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT IN CEILING. UNLESS NOTED OTHERWISE UPPER RECEPTACLE NON CONTROLLED/LOWER RECEPTACLE CONTROLLED BY ROOM AUTOMATION SYSTEM. CONTROLLED RECEPTACLE SHALL BE MARKED WITH THE SYMBOL SHOWN IN NEC FIGURE 406.3 (E) AND LOCATED ON THE CONTROLLED RECEPTACLE OUTLET WHERE VISIBLE AFTER INSTALLATION.
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. CEILING MOUNTED.

WALL OUTLETS

1. ALL 120V RECEPTACLES ON THIS PROJECT SHALL BE TAMPER PROOF TYPE PER THE NATIONAL ELECTRIC CODE.

- COMBO WALL MOUNTED EXIT/EMERGENCY LIGHT
- WALL MOUNTED EXIT LIGHT
- WALL MOUNTED LIGHTING FIXTURE
- WALL MOUNTED LIGHTING FIXTURE "EMERGENCY POWER"
- BATTERY OPERATED EMERGENCY LIGHTING FIXTURE
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER
- QUADRAPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
- QUADRAPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER UNLESS NOTED OTHERWISE
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFI, 3 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 26" AFF TO C/L FOR DRINKING FOUNTAIN
- SINGLE RECEPTACLE - 30 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA L6-30R. MOUNT AS DIRECTED FOR RACK UPS SYSTEM
- SINGLE RECEPTACLE - 30 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA L6-30R. MOUNT AS DIRECTED FOR RACK UPS SYSTEM
- JUNCTION BOX SIZE NOTED OR REQUIRED, WITH BLANK SCREW COVER AND FLEXIBLE CONDUIT CONNECTION
- PHOTOCELL; TORK MODEL 5231 (120V), TWIST RECEPTACLE: TORK 2421.
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT AS DIRECTED FOR INTERACTIVE DISPLAY

INTERCOM SYSTEM

- INTERCOM SYSTEM - CLASSROOM CALL STATION
- INTERCOM SPEAKER - DROP-IN CEILING TILE SPEAKER
- INTERCOM SPEAKER - WALL MOUNTED HORN
- INTERCOM SPEAKER - WALL MOUNTED SPEAKER
- INTERCOM SYSTEM - CONSOLE
- INTERCOM CIRCUITRY

COMMUNICATIONS SYSTEMS

- WALL OUTLET - 4-1/2" SQ X 3-1/2" DEEP BOX; MOUNT 18" AFF; FOR TYPICAL UNITS - SEE DETAIL ON SHEET E4.1 (X) INDICATES NUMBER OF DATA RJ45 JACKS AND CAT6 CABLES BACK TO NEAREST IDF/CBB
- WALL OUTLET - 4-1/2" SQ X 3-1/2" DEEP BOX; MOUNT ABOVE COUNTER; FOR TYPICAL UNITS - SEE DETAIL ON SHEET E4.1 (X) INDICATES NUMBER OF DATA RJ45 JACKS AND CAT6 CABLES BACK TO NEAREST IDF/CBB
- CEILING OUTLET FOR WIRELESS INTERNET - 1-RJ45 AND 1-CAT 6 CABLE BACK TO NEAREST IDF/ MDF.
- HDMI OUTLET AT PROJECTOR AND TEACHERS DESK LOCATION WITH HDMI CABLE CONNECTION
- WALL OUTLET - 4-1/2" SQ X 3-1/2" DEEP BOX; FOR TYPICAL UNITS - SEE COMMUNICATIONS RISER SHEET E4.1 SB INDICATES FOR SMARTBOARD MOUNT AT HEIGHT AS NEEDED. 1-RJ45 & 1 CAT6 CABLE BACK TO NEAREST TELECOM CLOSET
- TELEPHONE BACKBOARD - 3/4" EXTERIOR GRADE PLYWOOD WITH TWO COATS OF INSULATING VARNISH, SIZE AS SHOWN
- COMMUNICATIONS RACK
- SECURITY CAMERA - SINGLE GANG JUNCTION BOX WITH 3/4" CONDUIT TO TBB

WALL SWITCHES (UNLESS OTHERWISE NOTED, MOUNT 48" A.F.F.)

- S A.C. TYPE, SINGLE POLE, 20 AMP, 120/277 VOLT
- S_{M2} MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS DOUBLE POLE SINGLE THROW, A.C. TYPE, 30 AMP, 208 VOLT
- S₃ A.C. TYPE, 3-WAY, 20 AMP, 120/277 VOLT
- S_M MOTOR RATED TOGGLE SWITCH DISCONNECT, WITH THERMAL OVERLOADS A.C. TYPE, 20 AMP, 120/277 VOLT
- S₀₁ OCCUPANCY SENSOR WALL SWITCH, MULTI-TECHNOLOGY, SELF POWERED, SIMILAR TO LEVITON OSSTMT-MD
- S_T PRESET INTERVAL TIMER SWITCH, SENSOR SWITCH PTS 720 SERIES OR APPROVED EQUALS
- PUSH BUTTON, TOGGLE SWITCH, ROTARY SWITCH, ETC., FURNISHED WITH EQUIPMENT BY OTHERS, INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR.

LIGHTING CONTROLS

- CEILING MOUNTED OCCUPANCY SENSOR
- POWER PACK FOR OCCUPANCY SENSOR
- ROOM CONTROLLER - 1 ZONE DIMMING
- ROOM CONTROLLER - 2 ZONE DIMMING
- ROOM CONTROLLER - ON/OFF NO DIMMING
- WALL DIMMER - ON/OFF & 0-10V 1-ZONE DIMMING
- WALL DIMMER - ON/OFF & 0-10V 2-ZONE DIMMING
- S_L LOW VOLTAGE SWITCH, 2-BUTTON
- S_{LX} LOW VOLTAGE SWITCH CONNECTED TO LIGHTING CONTROL PANEL, 2-BUTTON
- S₀₁ OCCUPANCY SENSOR WALL SWITCH, ULTRASONIC TECHNOLOGY, 1-BUTTON SIMILAR TO HUBBELL LIGHT HAWK 2

*COORDINATE WITH LIGHTING CONTROL DETAILS FOR MORE REQUIREMENTS

CLOSED CIRCUIT TELEVISION

- CLOSED CIRCUIT TELEVISION CAMERA - 1-CAT 6 CABLE BACK TO CCTV MONITOR
- CLOSED CIRCUIT TELEVISION CAMERA - 1-CAT 6 CABLE BACK TO CCTV MONITOR
- CLOSED CIRCUIT TELEVISION CAMERA - NETWORK VIDEO RECORDER

FLOOR OUTLETS

- RECESSED FLOOR BOX - QUADRAPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R, PROVIDE WITH 4 GANGS, ARCHITECT TO SELECT COLORS, SIMILAR TO WIREMOLD EVOLUTION SERIES RFB4C300G/(2)RFBADP/(1)RFBADFC/6CTC2XX, COVER PLATE OR PRIOR APPROVED EQUALS. FOR TYPICAL UNITS - PROVIDE TWO 1 1/4" CONDUITS TO CABLE BASKET.
- (X) INDICATES NUMBER OF RJ45 JACKS AND CAT6 CABLES BACK TO NEAREST TBB

PANELS AND POWER

- PANELBOARD
- PANELBOARD FLUSH MOUNTED
- CONTROL PANEL
- FUSIBLE DISCONNECT SWITCH; XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING; FURNISH AND INSTALL FUSES PER MANUFACTURER'S RECOMMENDATIONS
- MOTOR FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL CONTRACTOR; '5' INDICATES HORSE POWER RATING
- CIRCUIT BREAKER
- ELECTRIC METER
- GROUNDING ELECTRODE CONNECTION

MISCELLANEOUS EQUIPMENT

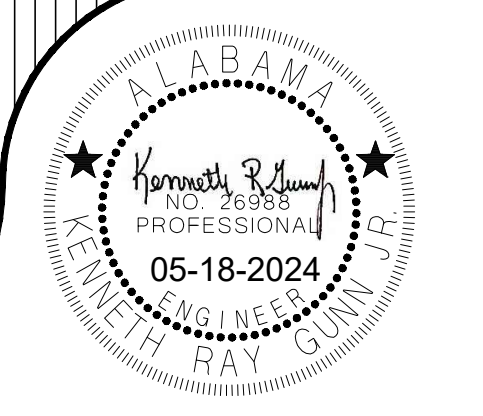
- WATER HEATER
- FIRE ALARM SYSTEM
 - FIRE ALARM SYSTEM CONTROL PANEL
 - FIRE ALARM SYSTEM REMOTE ANNUNCIATOR - FLUSH MOUNTING
 - FIRE ALARM SYSTEM MANUAL PULL STATION
 - FIRE ALARM SYSTEM VOICE EVAC SPEAKER/STROBE,
 - WEATHERPROOF FIRE ALARM SYSTEM SIGNAL HORN; FIRE ALARM SYSTEM STROBE;
 - FIRE ALARM SYSTEM TAMPER SWITCH
 - FIRE ALARM SYSTEM FLOW SWITCH
 - FIRE ALARM SYSTEM AUTOMATIC HEAT DETECTOR; 135 DEGREE/RATE OF RISE TYPE; CEILING MOUNTED
 - FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR; CEILING MOUNTED
 - FIRE ALARM SYSTEM AUTOMATIC AIR DUCT SMOKE DETECTOR MOUNTED IN MECHANICAL DUCT
 - FIRE ALARM SYSTEM REMOTE TEST STATION
 - FIRE ALARM SYSTEM ZONE MODULE, CONTROL TYPE
 - FIRE ALARM SYSTEM ZONE MODULE, MONITOR TYPE
 - FIRE ALARM SYSTEM SUPERVISED CIRCUITING IN CONDUIT, RACEWAY INSTALLED CONCEALED
 - FIRE ALARM SYSTEM MAGNETIC DOOR HOLDERS

BRANCH CIRCUITING

- RUN CONCEALED UNDER FLOOR OR IN GROUND
- RUN CONCEALED IN CEILING OR WALLS
- HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #12, 1 #12 GROUND - 3/4" C; -10-3-3 #12, 1 #12 GROUND - 3/4" C; -10-4-4 #12, 1 #12 GROUND - 3/4" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #10, 1 #10 GROUND - 3/4" C; -10-3-3 #10, 1 #10 GROUND - 3/4" C; -10-4-4 #10, 1 #10 GROUND - 1" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #8, 1 #10 GROUND - 1" C; -8-3-3 #8, 1 #10 GROUND - 1" C; -8-4-4 #8, 1 #10 GROUND - 1 1/4" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
- WHERE A NUMBER IS SHOWN NEXT TO OR ON THE CIRCUIT OR HOMERUN, THE NUMBER INDICATES CONDUCTOR SIZE OTHER THAN #12 - NUMBER #6 CONDUCTORS INDICATED. PROVIDE GROUND SIZED PER NEC TABLE 250 FOR MAX AMPACITY OF CONDUCTOR SIZE AS SHOWN. SIZE CONDUIT PER NEC ANNEX C.
- LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTION
- SURFACE MOUNTED CONDUIT; RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES
- EMPTY CONDUIT WITH PULLWIRE, RUN CONCEALED IN CEILING OR WALLS

NEW ADMIN BUILDING
 AT
 RED BAY HIGH SCHOOL
 FOR THE
 FRANKLIN COUNTY BOARD OF EDUCATION

MCKEE and ASSOCIATES
 ARCHITECTS, INC.
 631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : ELECTRICAL LEGEND & NOTES

MCKEE JOB # : 23-251

DRAWN BY : J. TILLERY

DATE : 05.18.2024

REVISED DATE :

REVISED DATE :

REVISED DATE :

Gunn & Associates, P.C.
 Consulting Engineers
 3102 Highway 14 Millbrook, AL 36054
 1200 Providence Park, Suite 200 Birmingham, AL 35242
 Tel: 334.285.1273 GA#24-007

SHEET NO. : E0.1

MISCELLANEOUS

- A AMPERE
- ADA AMERICANS WITH DISABILITIES ACT
- AFF ABOVE FINISH FLOOR
- AIC AMPERE INTERRUPTING CAPACITY
- ATS AUTOMATIC TRANSFER SWITCH
- C CONDUIT
- C/L CENTER LINE
- CWP COLD WATER PIPE
- EM EMERGENCY
- EMT ELECTRIC METALLIC TUBING
- GFI GROUND FAULT INTERRUPTER
- GRC GALVANIZED RIGID METAL CONDUIT
- GRD GROUND
- LC LIGHTING CONTACTOR
- MCB MAIN CIRCUIT BREAKER
- MCC MOTOR CONTROL CENTER
- MLO MAIN LUGS ONLY
- MT MOUNT
- N NEUTRAL
- NIC NOT IN CONTRACT
- NEC NATIONAL ELECTRICAL CODE
- NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- NL NIGHT LIGHT
- NTS NOT TO SCALE
- P POLE
- PF POWER FACTOR
- PH PHASE
- PNL PANEL
- PVC PVC (POLYVINYL CHLORIDE) CONDUIT
- SLD SINGLE LINE DIAGRAM
- TBB TELEPHONE BACKBOARD
- TVSS TRANSIENT VOLTAGE SURGE SUPPRESSORS
- UL UNDERWRITER'S LABORATORY
- U.N.O. UNLESS NOTED OTHERWISE
- V VOLTAGE
- W WIRE
- WP WEATHERPROOF
- # NUMBER
- 3R NEMA 3R WEATHERPROOF ENCLOSURE
- 4X NEMA 4X WEATHERPROOF/CORROSION ENCLOSURE

GENERAL ELECTRICAL NOTES:

1. THE SERVICE VOLTAGE TO THE FACILITY IS 120/208 VOLT, 3 PHASE, 4 WIRE.
2. INSTALLATION SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES, AND MANUFACTURER'S RECOMMENDATIONS.
3. MAINTAIN ALL CLEARANCES FOR ELECTRICAL EQUIPMENT PER THE NEC.
4. COORDINATE ROUGH-IN OF ALL ELECTRICAL DEVICES WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN. AVOID ALL BACKSPASHES AT COUNTERS.
5. ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD, AND COORDINATING WORK WITH OTHER TRADES TO AVOID CONFLICTS.
6. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL BEFORE ROUGH-IN OF LIGHT SWITCHES TO ENSURE PROPER SWITCH LOCATION.
7. THE LOCATION OF OUTLETS, FIXTURES, AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE, OFFSET AS NEEDED OR AS REQUESTED BY THE OWNER. THE OWNER SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ANY ADDITIONAL COST.
8. COORDINATE EXACT LOCATION OF ALL ELECTRICAL FLOOR DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
9. ALL CONDUIT SIZE SHALL BE A MINIMUM 3/4" UNLESS NOTED OTHERWISE IN THE DRAWINGS OR SPECIFICATIONS.
10. ALL ELECTRICAL RACEWAYS AND CABLING SHALL BE INSTALLED CONCEALED WITHIN THE CONFINES OF THE BUILDING FOUNDATIONS EXCEPT THOSE SPECIFICALLY SERVING LOADS OR EQUIPMENT EXTERIOR OF THE BUILDING. ALL SUCH RACEWAYS SHALL BE A MINIMUM 18" INSIDE FOUNDATIONS AND POWER AND COMMUNICATIONS RACEWAYS SHALL BE SEPARATED BY A MINIMUM 18".
11. ALL CONDUITS INSTALLED UNDERFLOOR SHALL BE ROUTED UNDER STRUCTURAL CONCRETE FLOOR SLABS. CONTRACTOR SHALL NOT INSTALL CONDUITS IN CONCRETE FLOORING WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER. CONDUITS PENETRATING THRU CONCRETE FLOORS SHALL ADHERE TO THE ELECTRICAL SPECIFICATIONS AND RECOMMENDATIONS OF THE STRUCTURAL ENGINEER.
12. ALL RACEWAYS INSTALLED ON EXTERIOR OF THE BUILDING, INCLUDING CONDUIT UNDER CANOPIES, SHALL BE GRC. EMT WILL NOT BE ACCEPTED.
13. ALL RACEWAYS SHALL BE SUPPORTED PER NEC AND AT LEAST EVERY 10' AND WITHIN 3' OF EVERY JUNCTION BOX. RACEWAYS SUPPORTED ON BOTTOM OF SECONDARY CEILING SHALL BE SUPPORTED FROM THE STRUCTURE NOT FROM THE GYPBOARD CEILING.
14. ALL EMPTY WALL MOUNTED JUNCTION BOXES SHALL BE PROVIDED WITH A WALL BLANK AND ALL EMPTY RACEWAYS SHALL BE PROVIDED WITH A PULL WIRES.
15. PROVIDE ALL CONDUIT STUBS WITH A PROTECTIVE COLLAR.
16. INSURE THAT ALL PENETRATIONS OF FIRE WALLS AND DECKS ARE PROPERLY SEALED PER INTERNATIONAL BUILDING CODE 712 AND WITH AN UL APPROVED DEVICE OR FIRE CAULK. REFER TO ARCHITECTURAL PLANS FOR THE LOCATIONS OF RATED FIRE WALLS AND UL ASSEMBLY LOCATIONS AND TYPES AND BID ACCORDINGLY.
17. PROVIDE A CONDUIT EXPANSION JOINTS WITH BONDING JUMPER IN ALL CONDUITS CROSSING AN EXPANSION JOINT. REFER TO ARCHITECTURAL DRAWINGS FOR EXPANSION JOINT LOCATIONS.
18. ALL UNDERGROUND CONDUITS RUNS ENTERING THE BUILDING SHALL BE SEALED TO PREVENT THE ENTRANCE OF MOISTURE.
19. ALL FLEXIBLE CONDUITS ON THE EXTERIOR, IN WET LOCATIONS OR ANY MECHANICAL ROOM SHALL BE LIQUID TIGHT WITH SUITABLE FITTINGS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING AROUND DEVICES, PENETRATIONS, OUTLETS, AND CONDUITS THAT PENETRATE THE WALLS ABOVE THE CEILING TO MAINTAIN SOUNDPROOFING. CONTRACTOR SHALL VERIFY THAT THE OPENINGS SIZES ARE LESS THAN 1/2" ON ALL SIDES OF THE PENETRATIONS. ALL OPENINGS IN EXCESS OF 1/2" SHALL BE CAULKED/SEALED WITH SHEET ROCK MUD. THE DRYWALL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING PENETRATIONS IN PLACE WHEN THE SHEETROCK ARE INSTALLED. PENETRATIONS MADE AFTER THE DRYWALL CONTRACTOR HAS FINISHED IN AN AREA SHALL BE SEALED BY THE CONTRACTOR MAKING THE PENETRATION.
21. PLANNED INTERRUPTIONS OF UTILITY SERVICE TO ANY EXISTING FACILITY OR AREAS WITHIN ANY FACILITY AFFECTED BY THIS CONTRACT, SHALL BE CAREFULLY PLANNED AND COORDINATED IN ADVANCE OF THE REQUESTED INTERRUPTION. THE CONTRACTOR SHALL NOT INTERRUPT SERVICES UNTIL SPECIFIED APPROVAL HAS BEEN GRANTED. THE REQUEST SHALL INDICATE SERVICES AND AREAS TO BE AFFECTED, DATE AND TIME OF INTERRUPTION AND DURATION OF OUTAGE. REQUEST FOR INTERRUPTION OF SERVICE WILL NOT BE APPROVED UNTIL ALL EQUIPMENT AND MATERIAL REQUIRED FOR THE COMPLETION OF THAT PARTICULAR PHASE OF WORK ARE ON THE JOB SITE. CONTRACTOR IS RESPONSIBLE FOR ALL OVERTIME, HOLIDAY, AND WEEKEND PAY TO THEIR EMPLOYEES TO DO THIS WORK DURING SCHEDULED NON-NORMAL WORK HOURS.
22. ALL EMERGENCY LIGHTS AND EXIT SIGNS SHALL HAVE AN EMERGENCY BATTERY BALLAST CONNECTED AHEAD OF LOCAL SWITCHING.
23. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS. PROVIDE PROPER NUMBER OF POWER PACKS AND LOCATE POWER PACKS AND OCCUPANCY SENSORS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
24. ALL JUNCTION BOX COVERS ABOVE THE CEILING SHALL BE CLEARLY MARKED WITH WHICH CIRCUITS OR ELECTRICAL SYSTEM THEY CONTAIN.
25. HVAC EQUIPMENT POWER WIRING SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. CONTROL EQUIPMENT AND CONTROL WIRING SHALL BE FURNISHED UNDER DIVISION 15 UNLESS OTHERWISE NOTED. PROVIDE 3/4" CONDUITS WITH PULL WIRE BETWEEN INSIDE AND OUTSIDE UNITS, THERMOSTAT OUTLETS AND UNITS AND/OR MECHANICAL CONTROL PANEL AS APPLICABLE. THERMOSTAT OUTLETS SHALL BE 4" SQUARE OUTLETS, FLUSH MOUNTED WITH SINGLE GANG OR DOUBLE GANG PLASTER RINGS AS DIRECTED BY THE HVAC CONTRACTOR. COORDINATE EXACT LOCATION OF ALL EQUIPMENT, DEVICES, OUTLETS, ETC, WITH THE MECHANICAL DRAWINGS AND DIVISION 15 SPECIFICATIONS. COORDINATE WITH THE HVAC CONTRACTOR FOR EXACT LOCATIONS OF ALL EQUIPMENT.
26. BUILDING OWNER MUST RECEIVE RECORD DRAWINGS AND MANUALS THAT PROVIDE INSTRUCTIONS ABOUT THE OPERATION AND MAINTENANCE OF THE BUILDING'S ELECTRICAL DISTRIBUTION SYSTEM.

COMcheck Software Version 4.1.5.1
Interior Lighting Compliance Certificate

Project Information
 Energy Code: 90.1 (2013) Standard
 Project Title: NEW ADMIN BUILDING AT RED BAY HIGH SCHOOL
 Project Type: New Construction

Construction Site: _____
 Designer/Contractor: MCKEE & ASSOCIATES
 Designer/Contractor: JASON TILLERY, GUNN & ASSOCIATES, MILLBROOK, AL

| Area Category | B Floor Area (SQ) | C Allowed Watts / ft ² | D Allowed Watts (B X C) |
|---|-------------------------|---|-------------------------------|
| OFFICE AREA (Common Space Types: Office - Enclosed) | 2202 | 111 | 302424 |

Proposed Interior Lighting Power

| Fixture ID - Description / Lamp / Wattage Per Lamp / Ballast | A Lamp(s) Fixture | B # of Fixtures | C Watt Fixture | D Watt (C X D) |
|--|-------------------------|-----------------------|----------------------|----------------------|
| OFFICE AREA (Common Space Types: Office - Enclosed) | | | | |
| L001: Other | 1 | 11 | 36 | 418 |
| L002: Other | 1 | 11 | 45 | 495 |
| L003: Other | 1 | 8 | 76 | 608 |
| L004: Other | 1 | 8 | 24 | 192 |
| L005: Other | 1 | 9 | 28 | 252 |
| L006: Other | 1 | 7 | 125 | 875 |
| L007: Other | 1 | 1 | 28 | 28 |
| Total Proposed Watts = | | | | 2000 |

Interior Lighting PASSES: Design 36% better than code

Interior Lighting Compliance Statement
 Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this application. The proposed interior lighting system has been designed to meet the 90.1 (2013) Standard requirements for COMcheck version 4.1.5.1 and to comply with any applicable regulatory requirements identified in the Inspection Checklist.

Jason Tillery, Elect. Designer, Jason Tillery, 4/18/24

Project Title: NEW ADMIN BUILDING AT RED BAY HIGH SCHOOL Report Date: 04/23/24
 Data File Name: N:\2024\04-01 RED BAY ADMIN BUILDING\COMRESPONDENCE\RED BAY ADMIN BLDG ENERGY Page 1 of 6
 STUDY.cck

COMcheck Software Version 4.1.5.1
Exterior Lighting Compliance Certificate

Project Information
 Energy Code: 90.1 (2013) Standard
 Project Title: NEW ADMIN BUILDING AT RED BAY HIGH SCHOOL
 Project Type: New Construction
 Exterior Lighting Zone: 1 (Developed total area)

Construction Site: _____
 Designer/Contractor: MCKEE & ASSOCIATES
 Designer/Contractor: JASON TILLERY, GUNN & ASSOCIATES, MILLBROOK, AL

| Area/Surface Category | B Quantity | C Allowed Watts / Unit | D Total Wattage | E Allowed Watts (B X C) |
|------------------------|---------------|------------------------------|-----------------------|-------------------------------|
| Walkway < 10 feet wide | 803.6 sq | 117 | 94035.6 | 70000 |

Proposed Exterior Lighting Power

| Fixture ID - Description / Lamp / Wattage Per Lamp / Ballast | A Lamp(s) Fixture | B # of Fixtures | C Watt Fixture | D Watt (C X D) |
|---|-------------------------|-----------------------|----------------------|----------------------|
| Walkway < 10 feet wide (800 ft of walkway length): Treadable Walkways | | | | |
| LED 1: Other | 1 | 6 | 50 | 300 |
| LED 2: Other | 1 | 2 | 36 | 72 |
| Total Proposed Watts = | | | | 372 |

Exterior Lighting PASSES: Design 65% better than code

Exterior Lighting Compliance Statement
 Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting system has been designed to meet the 90.1 (2013) Standard requirements for COMcheck version 4.1.5.1 and to comply with any applicable regulatory requirements identified in the Inspection Checklist.

Jason Tillery, Elect. Designer, Jason Tillery, 4/23/24

Project Title: NEW ADMIN BUILDING AT RED BAY HIGH SCHOOL Report Date: 04/23/24
 Data File Name: N:\2024\04-01 RED BAY ADMIN BUILDING\COMRESPONDENCE\RED BAY ADMIN BLDG ENERGY Page 2 of 6
 STUDY.cck

NEW ADMIN BUILDING
 AT
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 FRANKLIN COUNTY BOARD OF EDUCATION

MCKEE and ASSOCIATES
 ARCHITECTS, INC.
 631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE: ELECTRICAL LEGEND & NOTES

MCKEE JOB #: 23-251

DRAWN BY: J. TILLERY

DATE: 05.18.2024

REVISED DATE:

REVISED DATE:

REVISED DATE:

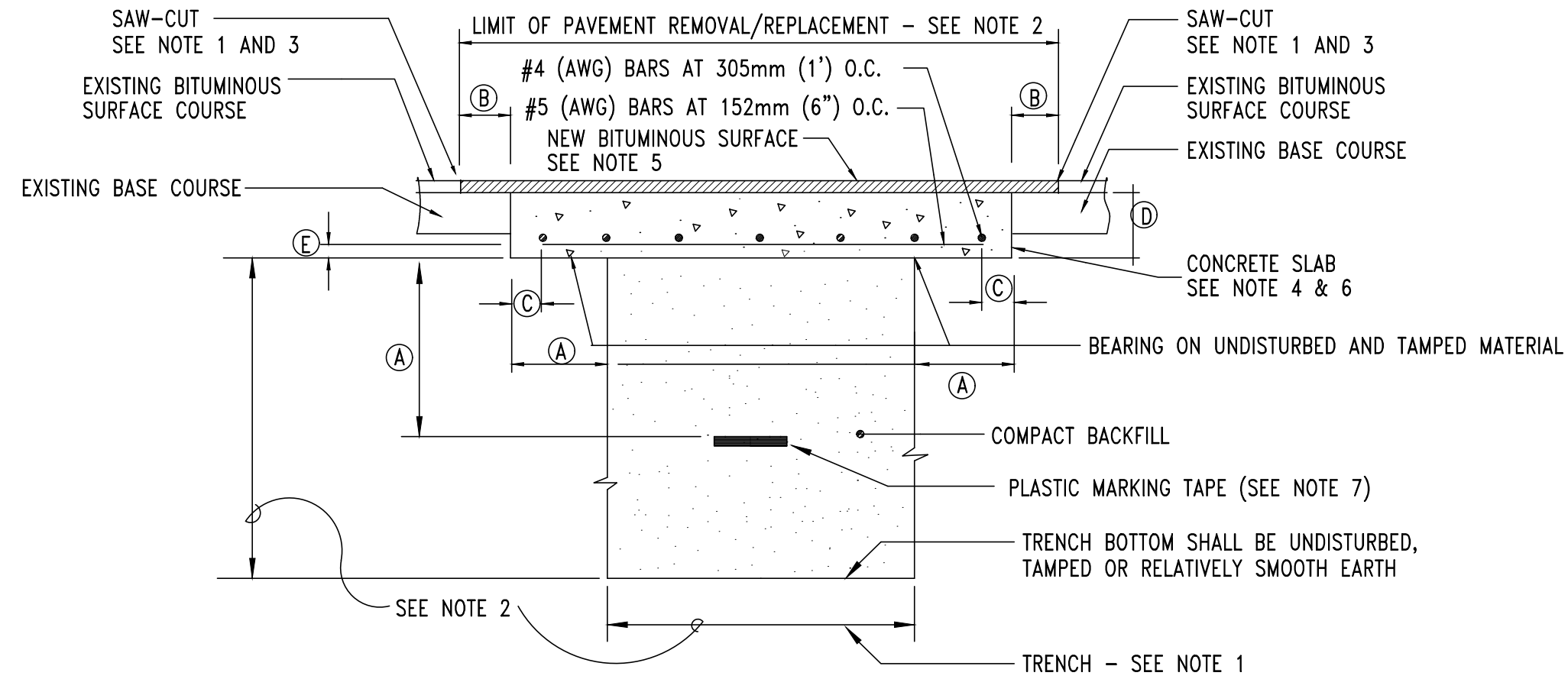
GA Gunn & Associates, P.C.
 Consulting Engineers
 3102 Highway 14 Millbrook, AL 36054
 1200 Providence Park, Suite 200 Birmingham, AL 35242
 Tel: 334.285.1273 GA#24-007

SHEET NO.: E0.2

| DIMENSION BLOCK | | |
|-----------------|-------|---------|
| REF | SI | ENGLISH |
| A | 305mm | 1'-0" |
| B | 152mm | 0'-6" |
| C | 51mm | 0'-2" |
| D | 203mm | 0'-8" |
| E | 76mm | 0'-3" |

NOTES:

- TRENCH/CUT EXISTING SURFACES. BACKFILL/PATCH/REPAIR ALL SURFACES AS SHOWN.
- TRENCH DEPTH AND WIDTH SHALL BE AS REQUIRED FOR THE INSTALLATION OF THE RACEWAY LINE SPECIFIED. SEE APPLICABLE RACEWAY LINE SECTION.
- PAVEMENT REMOVAL SHALL BE COMPLETE FROM THE SITE AND EXTEND BEYOND THE TRENCH WIDTH AS INDICATED.
- CONCRETE SHALL BE CLASS A.
- MATCH THICKNESS OF EXISTING BITUMINOUS SURFACE, OR 38mm (1.5") MINIMUM, WHICHEVER IS GREATER.
- REINFORCING BARS SHALL MEET ASTM A615, A616 OR A617, GRADE 40. REINFORCING BARS SHALL BE INSTALLED THE CONTINUOUS LENGTH OF CONCRETE SLAB.
- PLASTIC MARKER TAPE SHALL BE RED AND CONTAIN FOIL BACKING OR EQUIVALENT TO ENABLE DETECTION BY A METAL DETECTOR. SEE SPECIFICATIONS.

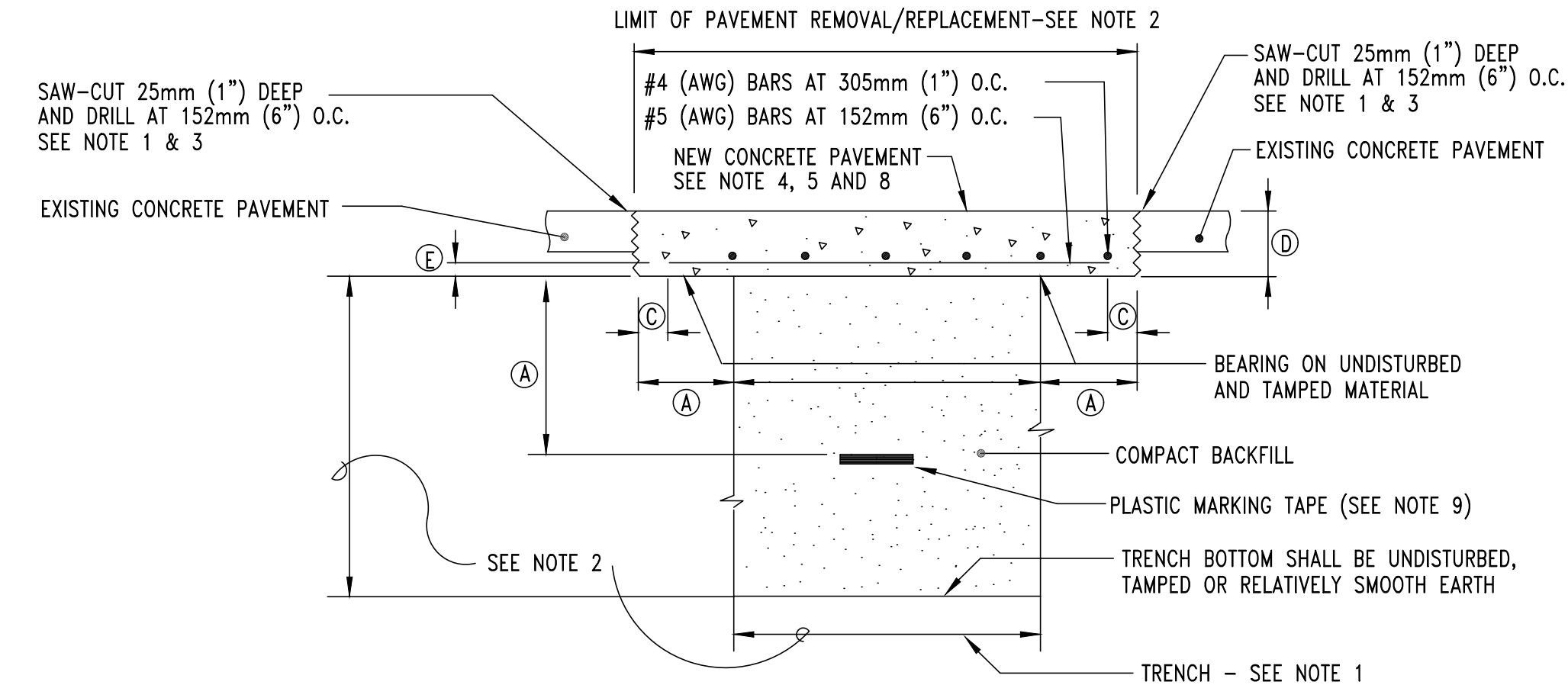


3 SECTION - TYPICAL TRENCH/BACKFILL/REPAIR FLEXIBLE PAVEMENT
E0.3 NO SCALE

| DIMENSION BLOCK | | |
|-----------------|-------|---------|
| REF | SI | ENGLISH |
| A | 305mm | 1'-0" |
| B | 152mm | 0'-6" |
| C | 51mm | 0'-2" |
| D | 203mm | 0'-8" |
| E | 76mm | 0'-3" |

NOTES:

- TRENCH/CUT EXISTING SURFACES. BACKFILL/PATCH/REPAIR ALL SURFACES AS SHOWN.
- TRENCH DEPTH AND WIDTH SHALL BE AS REQUIRED FOR THE INSTALLATION OF THE RACEWAY LINE SPECIFIED. SEE APPLICABLE RACEWAY LINE SECTION.
- PAVEMENT REMOVAL SHALL BE COMPLETE FROM THE SITE AND EXTEND BEYOND THE TRENCH WIDTH AS INDICATED.
- CONCRETE SHALL BE CLASS A.
- MATCH THICKNESS OF EXISTING CONCRETE PAVEMENT 8" (20.32cm) MIN.
- LEAVE DRILLED FACE OF EXISTING PAVEMENT IRREGULAR TO INSURE KEY TO NEW CONCRETE PAVEMENT.
- ALL EXISTING JOINTS TO BE RE-ESTABLISHED.
- REINFORCING BARS SHALL MEET ASTM A615, A616 OR A617, GRADE 40.
- REINFORCING BARS SHALL BE INSTALLED THE CONTINUOUS LENGTH OF CONCRETE PAVEMENT.
- PLASTIC MARKER TAPE SHALL BE RED AND CONTAIN FOIL BACKING OR EQUIVALENT TO ENABLE DETECTION BY A METAL DETECTOR. SEE SPECIFICATIONS.

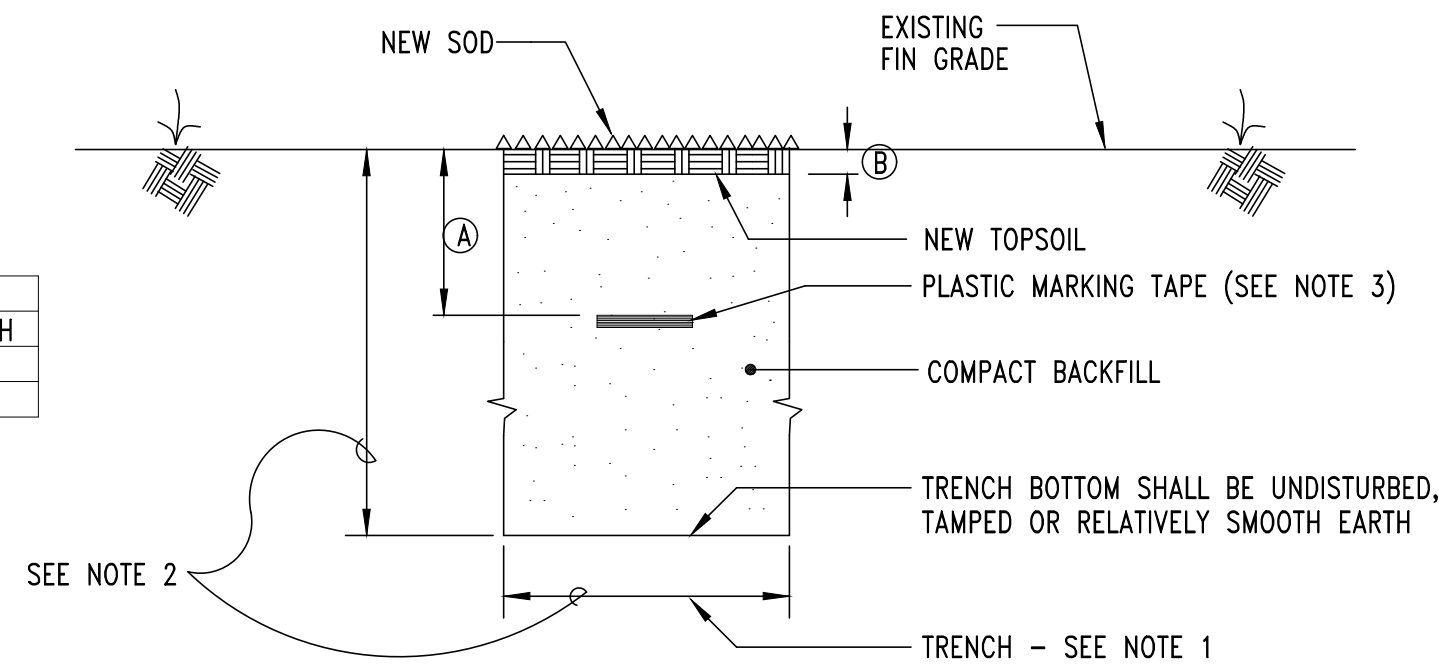


2 SECTION - TYPICAL TRENCH/BACKFILL/REPAIR RIGID PAVEMENT
E0.3 NO SCALE

NOTES:

- TRENCH/CUT EXISTING SURFACES. BACKFILL/PATCH/REPAIR AND INSTALL NEW SOD.
- TRENCH DEPTH AND WIDTH SHALL BE AS REQUIRED FOR THE INSTALLATION OF THE RACEWAY LINE SPECIFIED. SEE APPLICABLE RACEWAY LINE SECTION.
- PLASTIC MARKER TAPE SHALL BE RED AND CONTAIN FOIL BACKING OR EQUIVALENT TO ENABLE DETECTION BY A METAL DETECTOR. SEE SPECIFICATIONS.

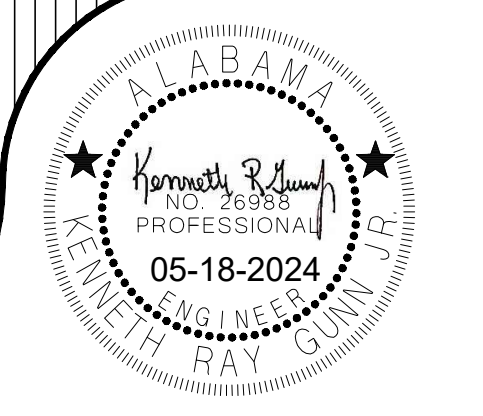
| DIMENSION BLOCK | | |
|-----------------|-------|---------|
| REF | SI | ENGLISH |
| A | 305mm | 1'-0" |
| B | 51mm | 0'-2" |



1 SECTION - TYPICAL TRENCH/BACKFILL/REPAIR SODDED AREAS
E0.3 NO SCALE

NEW ADMIN BUILDING
AT
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MCKEE and ASSOCIATES
 ARCHITECTS, INC.
 631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : TRENCHING DETAILS & NOTES

MCKEE JOB # : 23-251

DRAWN BY : J. TILLERY

DATE : 05.18.2024

REVISED DATE :

REVISED DATE :

REVISED DATE :

Gunn & Associates, P.C.
 Consulting Engineers
 3102 Highway 14 Millbrook, AL 36054
 1200 Providence Park, Suite 200 Birmingham, AL 35242
 Tel: 334.285.1273 GA#24-007

SHEET NO. : **E0.3**

GENERAL NOTES:

- COORDINATE WITH POWER RISER DIAGRAM SHEETS E7.1 & E7.2 FOR FEEDER AND CONDUIT SIZES AND ALL OTHER ADDITIONAL REQUIREMENTS NOT SHOWN ON SITE PLAN.
- ALL UNDERGROUND CONDUITS SHALL BE 36" MINIMUM BELOW GRADE. UNDERGROUND PRIMARY SHALL BE 48" MINIMUM BELOW GRADE
- ALL ROUTING IS SHOWN DIAGRAMMATIC. VERIFY ACTUAL ROUTING AND FIELD CONDITIONS PRIOR TO BIDS.
- LOCATIONS OF RISER POLES, AND TRANSFORMERS SHALL BE COORDINATED PRIOR TO BIDS. ADJUST FEEDER AND CONDUIT LENGTHS ACCORDINGLY. PAY ALL UTILITY COMPANY FEES. BID ACCORDINGLY.
- VISIT SITE PRIOR TO BIDS TO VERIFY ROUTING AND LENGTHS OF CIRCUITRY ON ALL SYSTEMS PRIOR TO BIDS. ADJUST ALL LENGTHS ACCORDINGLY.

SITE LEGEND

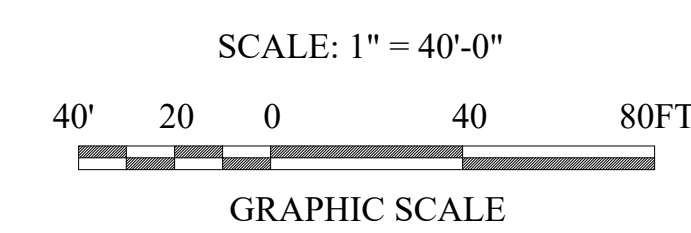
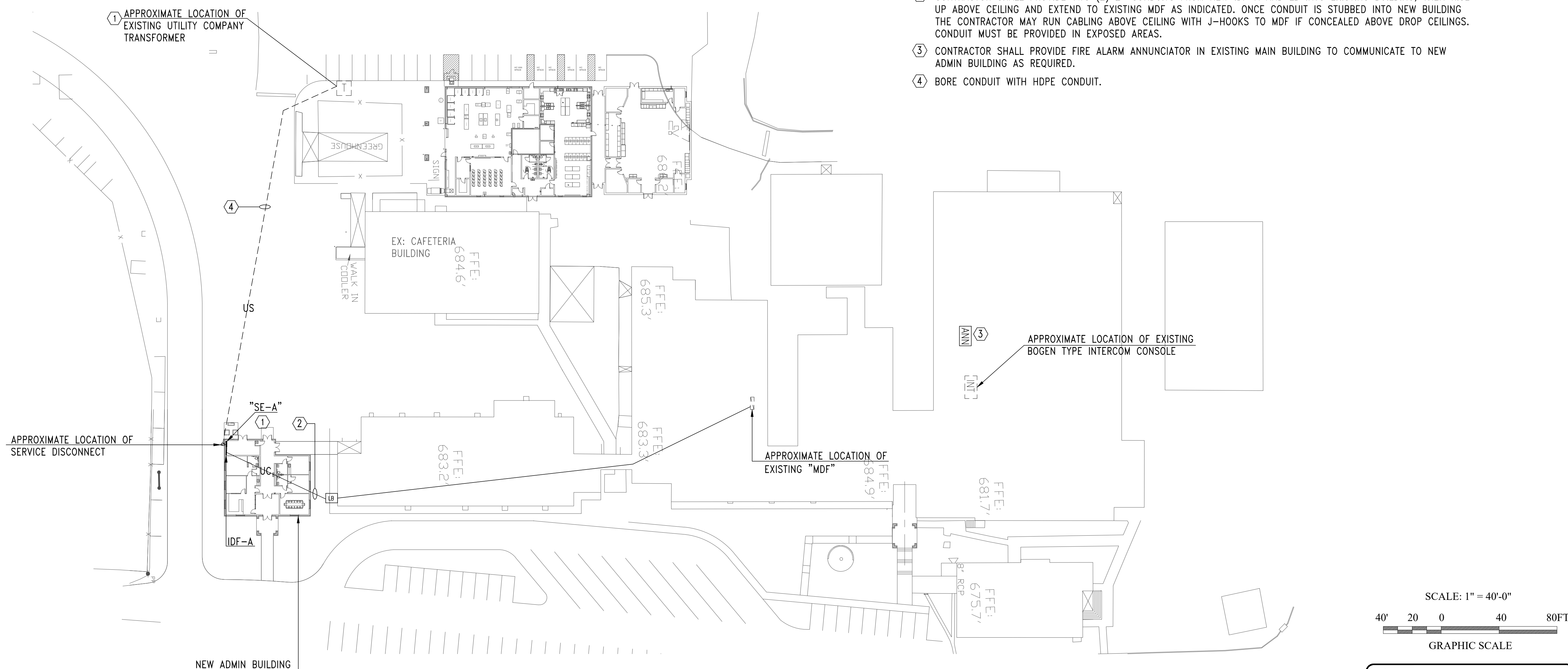
- US--- UNDERGROUND SECONDARY
- UP--- UNDERGROUND PRIMARY
- UC--- UNDERGROUND COMMUNICATIONS
- EX:OP— EXISTING OVERHEAD PRIMARY
- OP— OVERHEAD PRIMARY
- EXISTING PAD MOUNTED TRANSFORMER
- 8"x8"x4" WEATHERPROOF JUNCTION BOX. INSTALL TOP OF BOX FLUSH WITH GRADE.

UNDERGROUND UTILITY NOTES:

- THE UNDERGROUND UTILITY PORTION OF THIS PROJECT CONSISTS OF BUT IS NOT LIMITED TO:
 - TRENCHING/BACKFILLING FOR DUCT LINES AND CONDUIT SYSTEMS
 - DUCTBANK INSTALLATIONS
 - LOW VOLTAGE CONDUCTOR INSTALLATION
 - PATCH/REPAIR ALL DAMAGED SURFACES AS A RESULT OF DUCTLINE INSTALLATIONS
- INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL SAFETY CODE (NEC) AND THE NATIONAL ELECTRICAL CODE (NEC).
- ALL CONDUCTIVE PARTS OF EQUIPMENT, ENCLOSURES, SUPPORTS, FRAMES, CASES, CONDUIT SYSTEMS AND SURGE ARRESTORS, CABLE SHEATHS, CABLE SHIELDS, COMMON NEUTRALS, ETC., SHALL BE GROUNDED. UNLESS NOTED OTHERWISE CONNECTIONS BELOW GRADE SHALL BE FUSION-WELDED AND ABOVE GRADE FUSION-WELDED OR BOLTED SOLDERLESS. ALL GROUND CONDUCTORS SHALL BE COPPER.
- ALL CLEARANCES SHALL BE MAINTAINED PER NEC AND NEC. ALL PARTS, DEVICES, EQUIPMENT, ETC. WHICH REQUIRE MAINTENANCE, ADJUSTMENT, OPERATION OR EXAMINATION DURING NORMAL NETWORK OPERATION SHALL BE ARRANGED SO AS TO BE ACCESSIBLE BY THE PROVISION OF ADEQUATE WORKING SPACES, WORKING FACILITIES AND CLEARANCES. UNLESS NOTED OTHERWISE ALL CLEARANCES ARE MEASURED FROM SURFACE TO SURFACE.
- ALL DIMENSIONS INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
- UNLESS OTHERWISE SHOWN OR DIRECTED DUCT LINES SHALL NOT BE LOCATED DIRECTLY UNDER STRUCTURES AND NOT DIRECTLY UNDER OR OVER OTHER SUBSURFACE STRUCTURES. WHERE DUCT LINES ARE REQUIRED TO CROSS OTHER UTILITIES SUCH AS SEWERS, WATER LINES, OTHER POWER LINES, COMMUNICATION LINES, ETC., ADEQUATE SUPPORT SHALL BE PROVIDED ON EACH SIDE OF THE CROSSING TO PREVENT TRANSFERRING ANY DIRECT LOAD ONTO THE OTHER LINE. DUCT LINES SHALL BE SO INSTALLED AS TO PREVENT HEAT TRANSFER BETWEEN ANY HEAT PRODUCING LINES AND/OR EQUIPMENT TO DUCT LINES.
 - ROUTING SHOWN ON DRAWINGS IS TYPICAL AND THE CONTRACTOR SHALL PROPOSE FINAL ROUTING BASED UPON ACTUAL FIELD DIMENSIONS, CONDITIONS AND EXISTING UNDERGROUND UTILITIES AND STRUCTURES.
 - PRIOR TO TRENCHING, THE CONTRACTOR SHALL STAKE OUT THE ENTIRE NETWORK ARRANGEMENT. ONE GRADE A WOODEN STAKE WITH RED FLAG SHALL BE DRIVEN EVERY 50'-0" AND AT EACH CHANGE OF DIRECTION. FOUR STAKES SHALL BE DRIVEN TO OUTLINE EQUIPMENT AND/OR MANHOLE LOCATIONS. ON PAVEMENTS RED PAINT SHALL BE USED TO OUTLINE THE AREAS TO BE CUT. SECURE EXISTING UNDERGROUND UTILITY INFORMATION FROM THE CONTRACTING OFFICER PRIOR TO PERFORMING ANY TRENCHING.
 - DEPTHS INDICATED FOR INSTALLATION ARE MINIMUM. ACTUAL DEPTHS MAY VARY DUE TO TERMINATIONS, COMPENSATIONS FOR RADIUS OF VERTICAL TRANSITIONS, EXISTING UTILITY CROSSINGS, ETC. APPROVAL SHALL BE OBTAINED FOR ANY DEPTH LESS THAN INDICATED. TRENCHES SHALL BE OVER-EXCAVATED AS NECESSARY TO ALLOW FOR PROPER TRENCH PREPARATION, DUCT BANK CONSTRUCTION, FORMING AND/OR BACKFILLING REQUIREMENTS.
 - ALL TRENCHING AND BACKFILL COMPACTION SHALL COMPLY WITH GEOTECHNICAL REPORT AND DIVISION 200.

SHEET NOTES:

- CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY FOR UNDERGROUND SERVICE TO EXISTING PAD MOUNTED TRANSFORMER. MODIFY EXISTING CONCRETE PAD AS NEEDED TO GET CONDUIT INTO SECONDARY COMPARTMENT OF TRANSFORMER. VERIFY ROUTING AND TRANSFORMER LOCATION PRIOR TO BIDS.
- CONTRACTOR SHALL PROVIDE TWO (2) 2" CONDUITS FROM NEW IDF-A AND LB INTO EXISTING BUILDING, THEN RISE UP ABOVE CEILING AND EXTEND TO EXISTING MDF AS INDICATED. ONCE CONDUIT IS STUBBED INTO NEW BUILDING THE CONTRACTOR MAY RUN CABLING ABOVE CEILING WITH J-HOOKS TO MDF IF CONCEALED ABOVE DROP CEILING. CONDUIT MUST BE PROVIDED IN EXPOSED AREAS.
- CONTRACTOR SHALL PROVIDE FIRE ALARM ANNUNCIATOR IN EXISTING MAIN BUILDING TO COMMUNICATE TO NEW ADMIN BUILDING AS REQUIRED.
- BORE CONDUIT WITH HDPE CONDUIT.



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SHEET TITLE : SITE PLAN - ELECTRICAL

MCKEE JOB # : 23-251

DRAWN BY : J. TILLERY

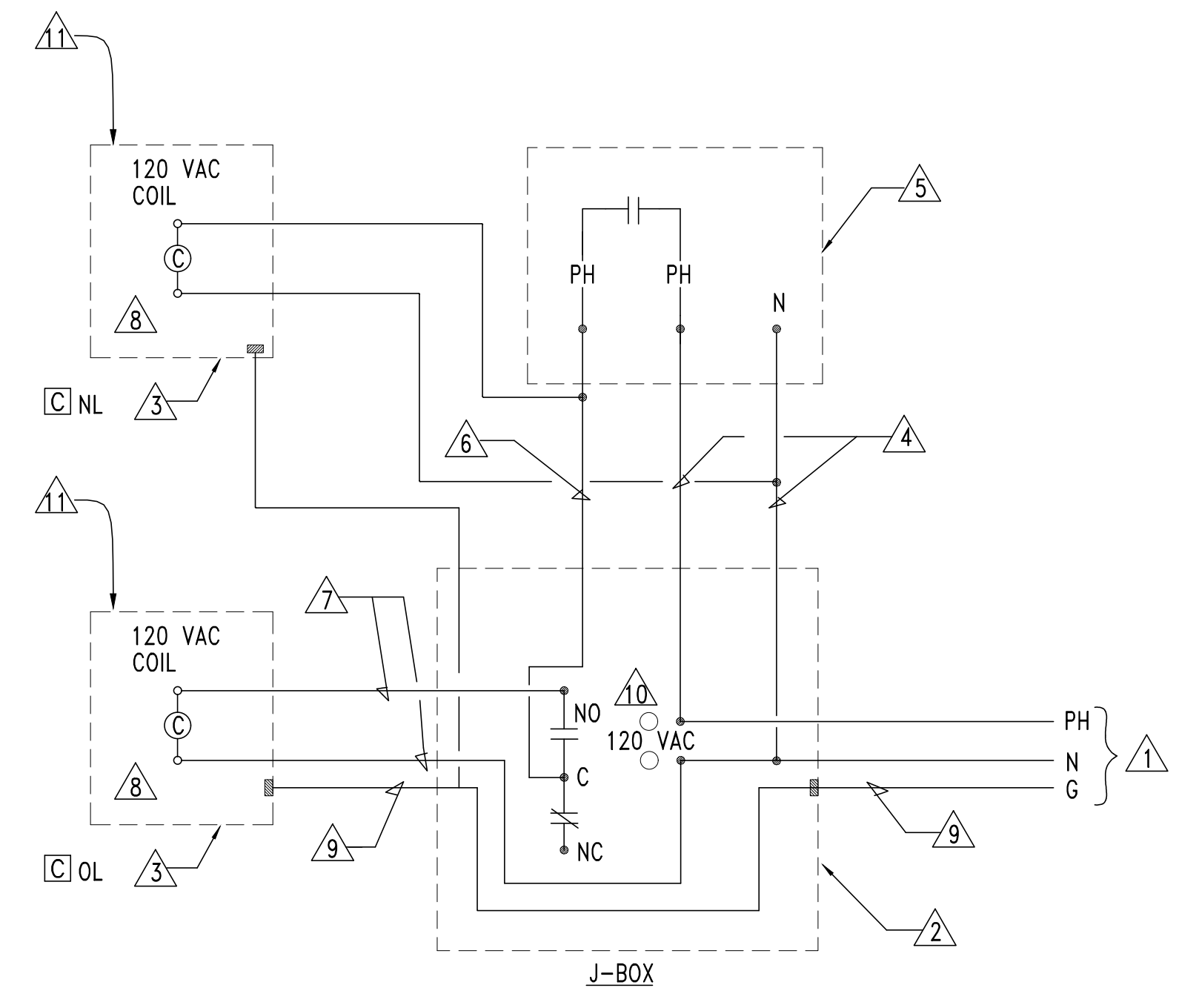
DATE : 05.18.2024

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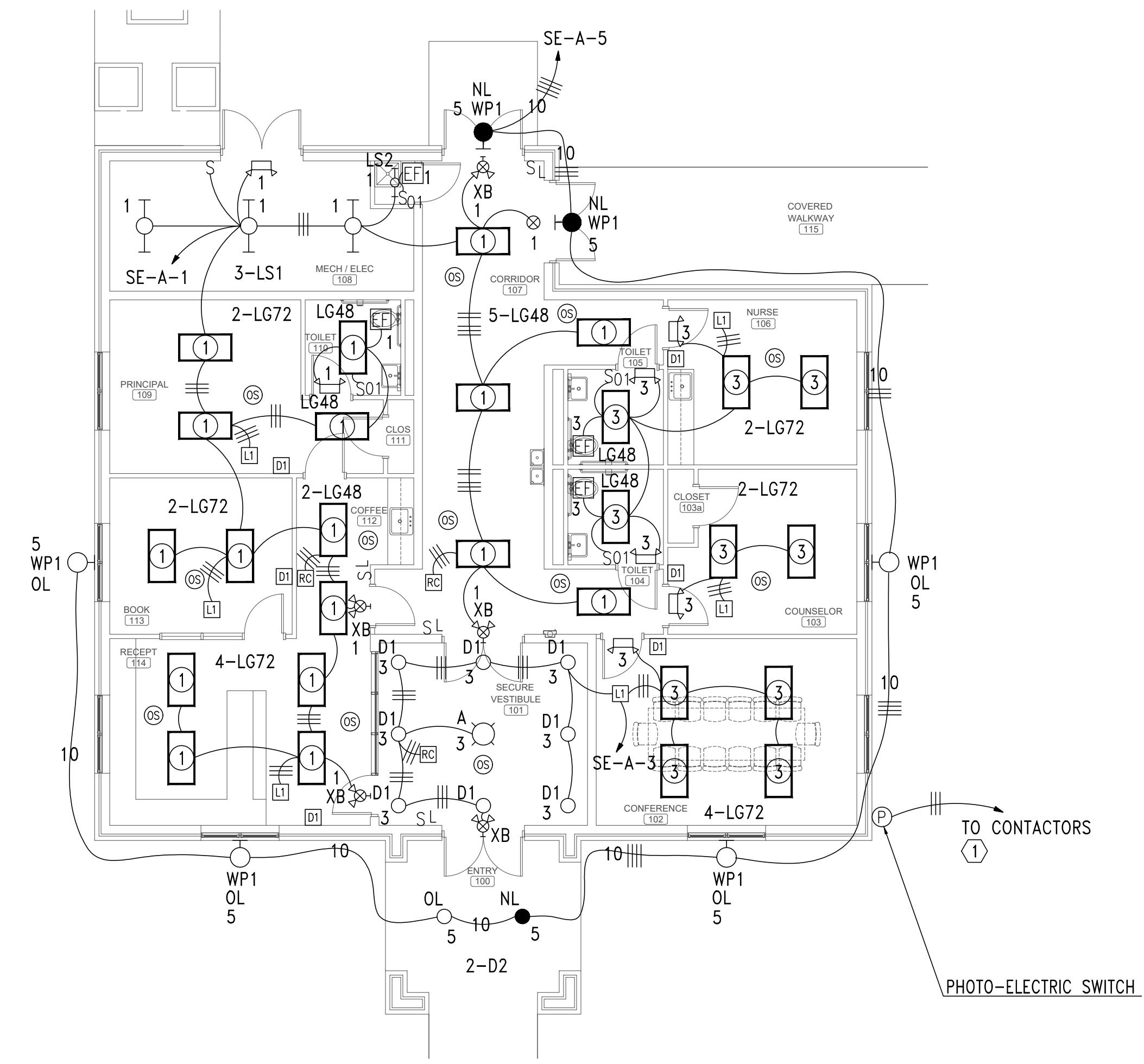
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SHEET NO. : **E1.1**



2 DETAIL - TYPICAL OPERATION OF TIME SWITCH/PHOTO-CELL/CONTACTOR
 NO SCALE

- KEYED NOTES**
- 1 POWER SUPPLY - 120V, 1PH, 60HZ
 - 2 TIME SWITCH ENCLOSURE - NEMA 1 UNLESS NOTED OTHERWISE
 - 3 CONTACTOR ENCLOSURE - NEMA 1 UNLESS NOTED OTHERWISE
 - 4 POWER TAP TO PHOTO-CELL IN GRC
 - 5 TURN-LOCK PHOTO-CELL, SEE DETAIL
 - 6 SWITCH LEG RETURN IN GRC
 - 7 POWER TO CONTACTOR COIL
 - 8 LIGHTING CONTACTOR [NL] & [OL] AS FOLLOWS:
 - NEMA ICS 2-211B INDUSTRIAL DUTY TYPE
 - ELECTRICALLY OPERATED-ELECTRICALLY HELD
 - RATING AND NUMBER OF POLES INDICATED
 - CONTACTS SHALL BE SILVER ALLOY, DOUBLE-BREAK, SUITABLE FOR TUNGSTEN, BALLAST LIGHTING, RESISTANCE AND MOTOR LOADS
 - FUSING FOR CONTROL CIRCUIT
 - 9 GROUND CONDUCTOR - BOND TO EACH ENCLOSURE AND INSTALL IN EACH CONDUIT SYSTEM
 - 10 DIGITAL TIME SWITCH AS FOLLOWS:
 - ONE CHANNEL WITH 24 HOUR, SEVEN DAY PROGRAMMING AND SKIP-A-DAY FEATURE
 - INPUT: 120 VAC, 60HZ
 - OUTPUT: DPST DRY CONTACTS (UNPOWERED)
 - HEAVY DUTY CONTACTS RATED 20 AMPERE RESISTIVE AT 120 VAC
 - TEMPERATURE RANGE: -20 TO +60 DEGREES CELSIUS
 - RELATIVE HUMIDITY: 0 TO 90% RH
 - CLOCK ACCURACY: ±2 MINUTES PER YEAR
 - LED INDICATION OF TIME AND LOAD STATUS
 - FULL WEEK'S RESERVE POWER (BATTERY BACK-UP)
 - 11 PROVIDE NUMBER OF POLES REQUIRED.



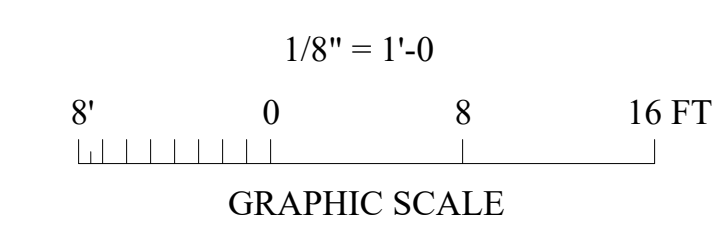
1 FLOOR PLAN - LIGHTING
 SCALE: 1/8"=1'-0"

- GENERAL NOTES:**
- PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRED HOMERUN PER NEC.
 - COORDINATE WITH LIGHTING CONTROL DETAILS FOR ADDITIONAL REQUIREMENTS.
 - SEE LIGHTING CONTROL DETAILS ON SHEET E2.2 FOR ADDITIONAL REQUIREMENTS.

- SHEET NOTES:**
- ROUTE EXTERIOR LIGHTING CIRCUITS THRU CONTACTORS AS SHOWN IN DETAIL 3. "NL" DESIGNATES LIGHTS ARE PHOTOCELL ON/PHOTOCELL OFF. "OL" DESIGNATES PHOTOCELL ON/TIMECLOCK OFF.

- ROOM CONTROLLER NOTES:**
- CONTRACTOR SHALL LOCATE ALL ROOM CONTROLLERS ABOVE DOORS IN EACH ROOM 6" ABOVE CEILING GRID. PROVIDE ACCESS PANELS WHERE LOCATED ABOVE HARD CEILINGS OR MOUNT IN UTILITY TYPE ROOMS WHENEVER POSSIBLE. ROOM CONTROLLERS SHOWN ON THIS PLAN IS DIAGRAMMATIC FOR CIRCUITRY. DO NOT USE THESE FOR ACTUAL LOCATIONS. PROVIDE A WHITE PHENOLIC LABEL WITH 1" BLACK TEXT THAT READS "RC" GLUED ON CEILING GRID UNDER POWER PACK FOR EACH LOCATION FOR FUTURE MAINTENANCE.

- PHOTOCONTROL OF LIGHTING:**
- PHOTOCONTROL OF LIGHT FIXTURES WILL NOT BE REQUIRED FOR THE AREAS ON THIS PAGE. THE PRIMARY SIDELIGHTED AREA WILL NOT HAVE WATTAGES EXCEEDING 150W.



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SHEET TITLE: FLOOR PLAN - LIGHTING

MCKEE JOB #: 23-251

DRAWN BY: J. TILLERY

DATE: 05.18.2024

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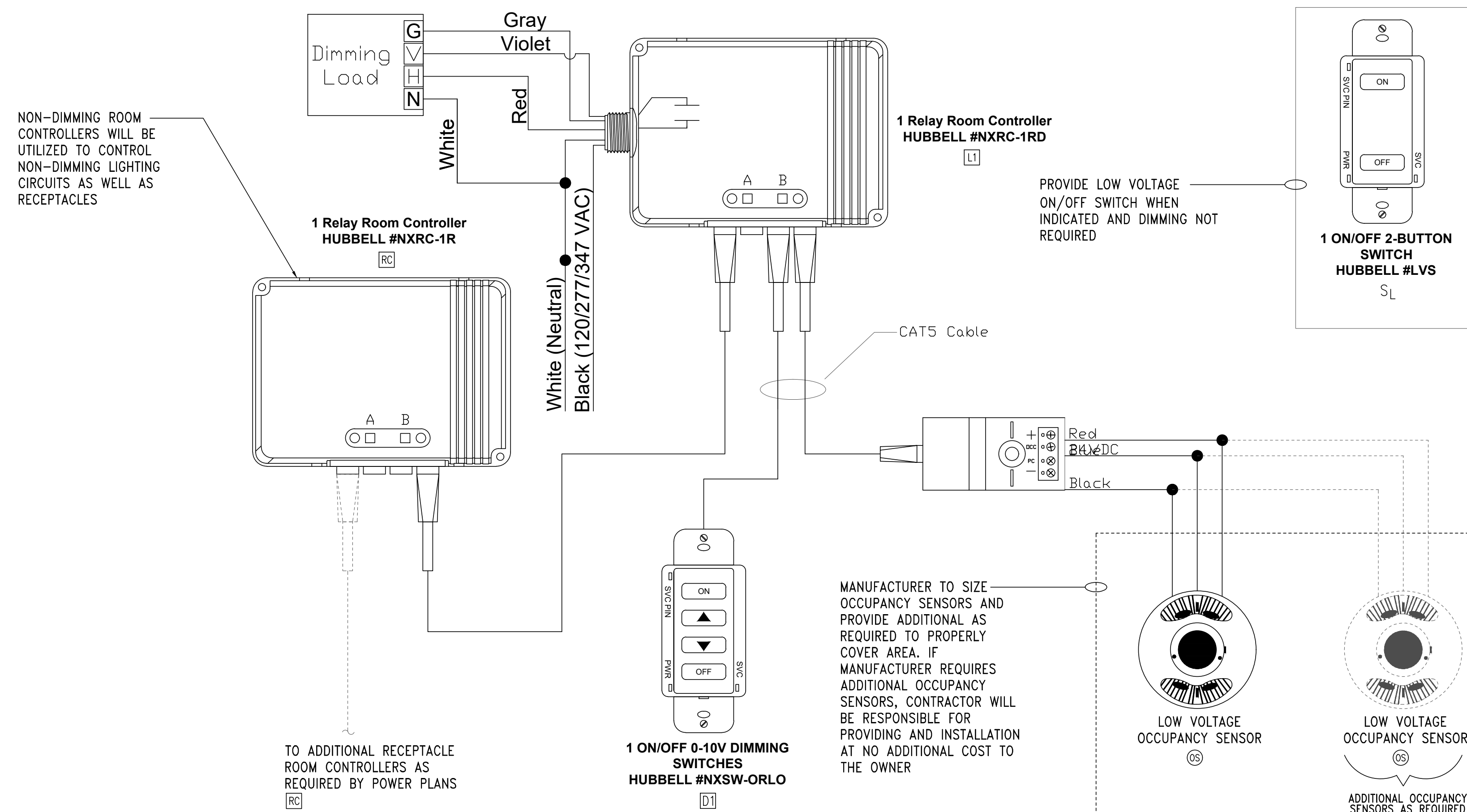
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SHEET NO.: **E2.1**

OCCUPANCY SENSOR AND CONTROL NOTES:

- OCCUPANCY SENSORS SHALL BE VACANCY TYPE WITH DUAL TECHNOLOGY DETECTION AND 20-MINUTE CUTOFF TIME.
- OCCUPANCY SENSOR MANUFACTURER PROVIDER WILL BE RESPONSIBLE FOR SIZING THE OCCUPANCY SENSORS IN EACH SPACE. PROVIDE THIS SIZING TO THE ENGINEER DURING SUBMITTAL PHASE FOR APPROVAL. PROVIDE ADDITIONAL OCCUPANCY SENSORS AS REQUIRED TO FULLY COVER ALL SPACES. IF ADDITIONAL OCCUPANCY SENSORS OR ANY OTHER EQUIPMENT IS REQUIRED IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND INSTALL. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THIS WITH LIGHTING MANUFACTURER PRIOR TO BIDS AND COVER THE COST OF ALL MATERIAL AND LABOR FOR ANY ADDITIONAL OCCUPANCY SENSORS.
- ALL OCCUPANCY SENSORS LOCATIONS ARE APPROXIMATE, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EXACT MOUNTING AND SPACING REQUIREMENTS PRIOR TO INSTALLATION.
- ULTRASONIC CEILING MOUNTED OCCUPANCY SENSORS SHALL BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
- CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS, FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
- OCCUPANCY SENSORS MOUNTED OVER DOORWAYS SHALL BE PLACED ONE (1) FOOT INSIDE THRESHOLD.
- LIGHTING CONTROL SYSTEM IS SPECIFIED AROUND THE HUBBELL AUTOMATION SYSTEM. CONTRACTOR SHALL PROVIDE ALL MATERIALS, DEVICES, WIRING, CONNECTIONS, AND PROGRAMMING NEEDED IF ANY OTHER LIGHTING CONTROL SYSTEM SUBMITS FOR APPROVAL AND IS PROVIDED.
- WATT STOPPER AND N-LIGHT ARE APPROVED EQUALS.
- CONTRACTOR SHALL GROUND ALL JUNCTION BOXES CONTAINING LOW VOLTAGE SWITCHES OR ANY OTHER TYPE LIGHTING CONTROL DEVICE WITH #12 GRD.



2 TYPICAL MULTIPLE OCCUPANCY SENSOR, SINGLE 0-10V DIMMING SYSTEM, AND MULTIPLE ROOM RECEPTACLE CONTROLLER DETAIL
E2.2 NO SCALE

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SHEET TITLE: LIGHTING CONTROLS, DETAILS & NOTES

MCKEE JOB #: 23-251

DRAWN BY: J. TILLERY

DATE: 05.18.2024

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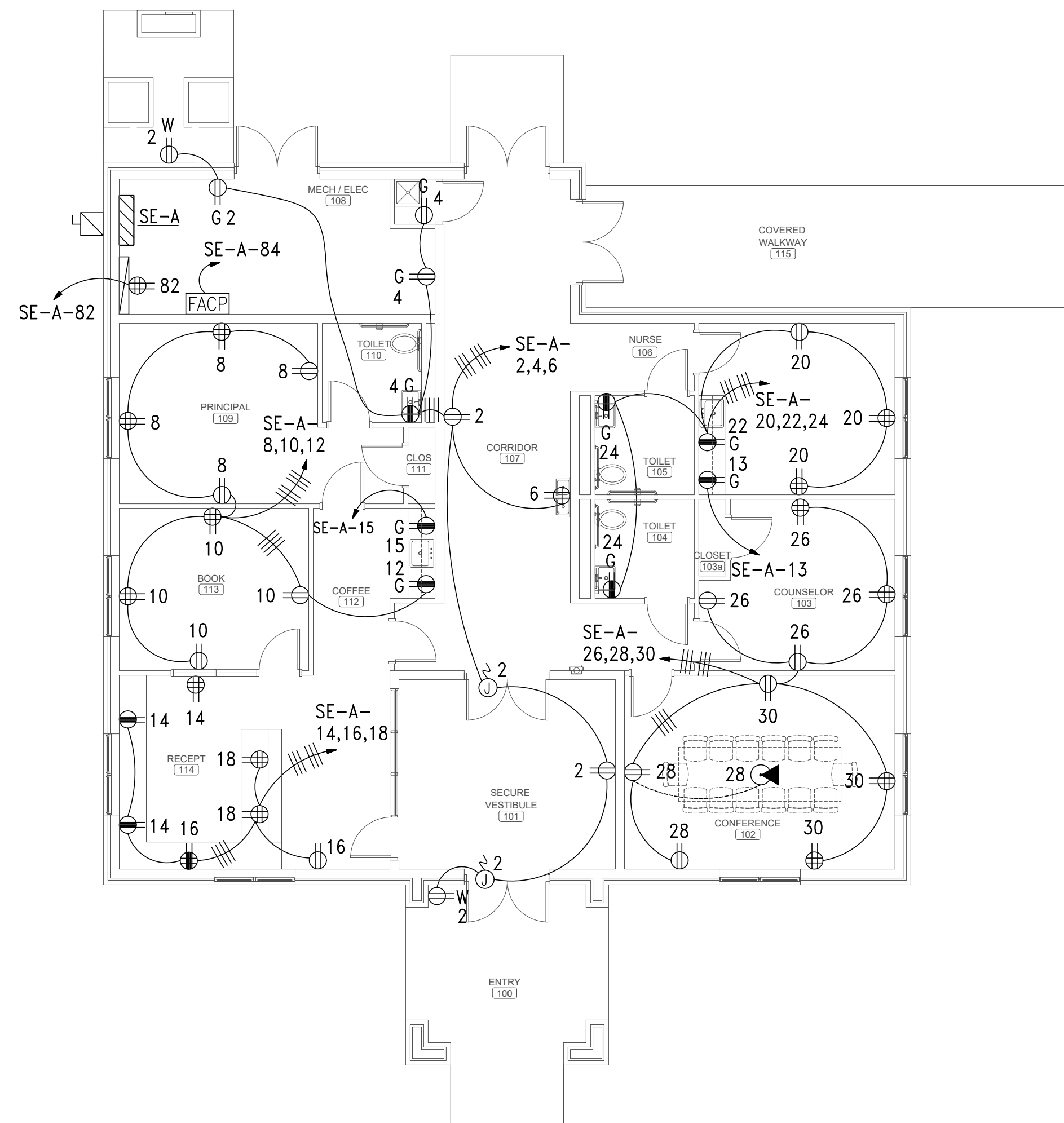
SHEET NO.: **E2.2**

GENERAL NOTES:

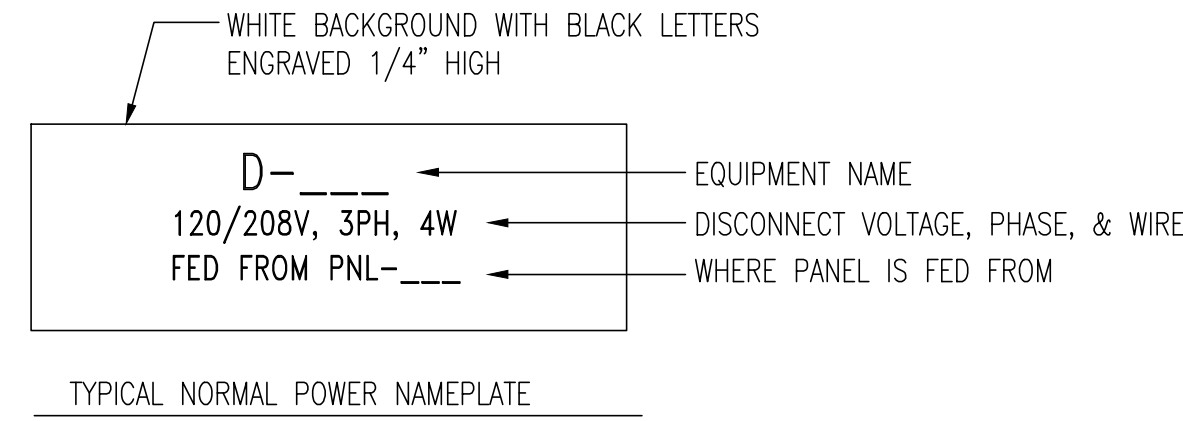
1. PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRED HOMERUN PER NEC.
2. COORDINATE EXACT LOCATION OF ALL ELECTRICAL AND COMMUNICATIONS DEVICES WITH MILLWORK PROVIDERS PRIOR TO ROUGH-IN.
3. ALL DISCONNECTS TO HAVE NAMEPLATE AS SHOWN IN DETAIL. NO EXCEPTIONS.
4. ALL RECEPTACLE CIRCUITS THAT ARE ROUTED UNDERGROUND SHALL BE STUBBED UP ABOVE CEILING IN AN ACCESSIBLE LOCATION FOR FUTURE USE.
5. THE OWNER TAKES EXCEPTION TO THE FOLLOWING SECTIONS OF 2013 ASHRAE 90. SECTION 8.4.2 AUTOMATIC RECEPTACLE CONTROLS AND SECTION 8.4.3 ELECTRICAL ENERGY MONITORING. THESE REQUIREMENTS WILL NOT BE PROVIDED IN THIS PROJECT.

SHEET NOTES:

- 1 PROVIDE 3/4" CONDUIT FOR CONTROL FROM THE ELECTRIFIED HARDWARE TO THE CONTROL BUTTON AT THE FRONT DESK.
- 2 INTERIOR UNIT RECEIVES POWER FROM THE EXTERIOR UNIT. PROVIDE INTERCONNECTING CIRCUITRY AS NEEDED IN CONDUIT TO CONNECT THE INTERIOR UNIT.



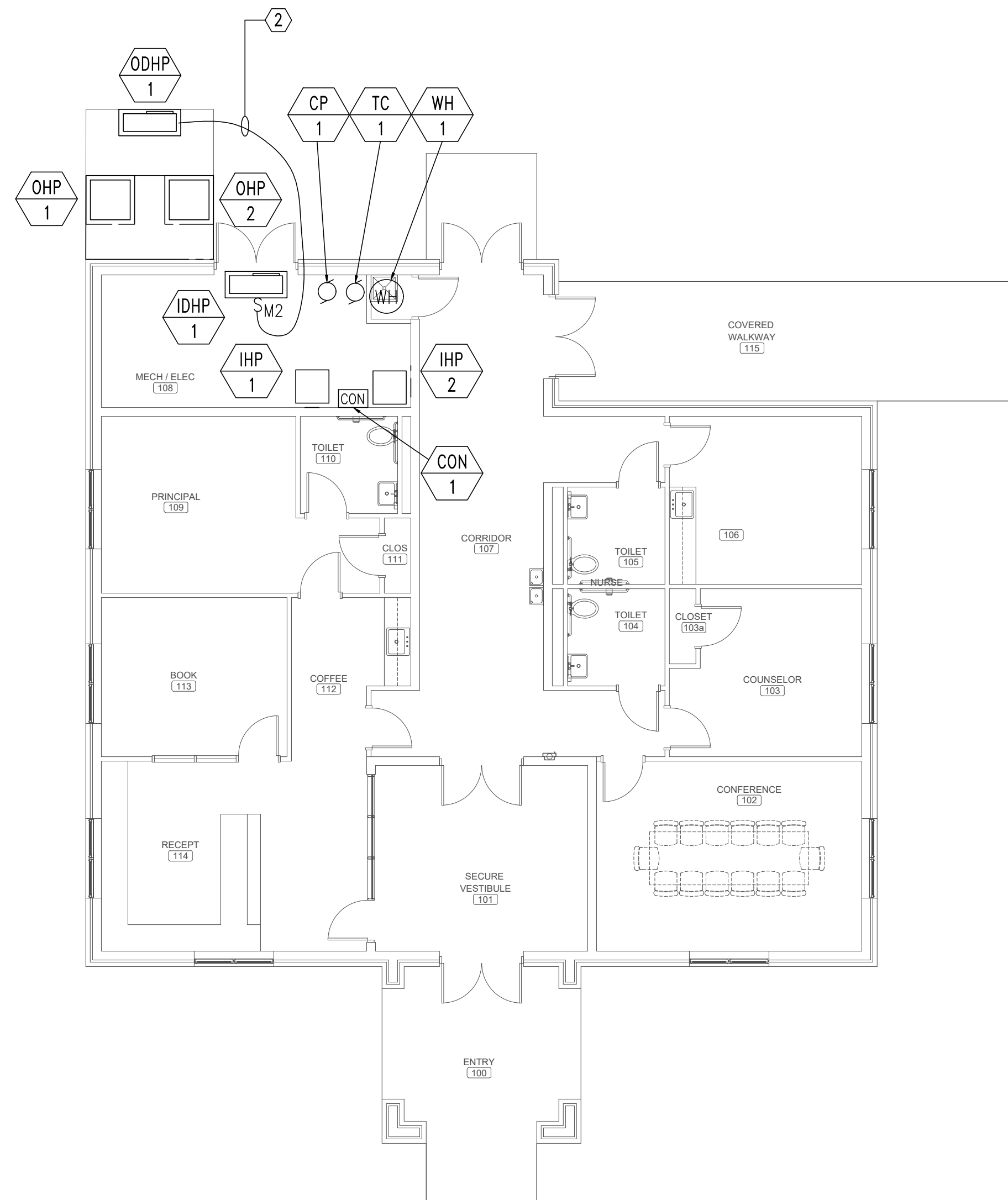
1 FLOOR PLAN - POWER
SCALE: 1/8"=1'-0"



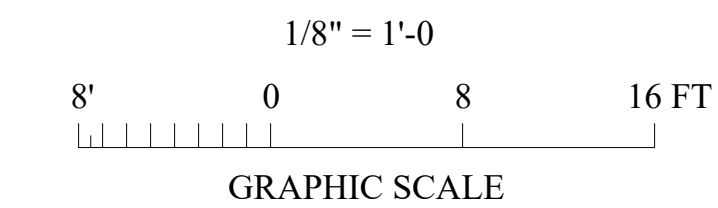
3 DETAIL - TYPICAL DISCONNECT NAMEPLATE
NO SCALE

GENERAL MECHANICAL POWER NOTES:

1. COORDINATE WITH MECHANICAL/PLUMBING DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT.
2. MOUNT EXTERIOR DISCONNECTS ON EXTERIOR WALLS AT LEAST 18" FROM WINDOWS. LOCATIONS OF DISCONNECTS AND EQUIPMENT ARE SHOWN FOR DRAWING CLARITY PURPOSES ONLY.
3. COORDINATE WITH MECHANICAL/PLUMBING CONTRACTORS TO INSURE OVERCURRENT PROTECTION DEVICES FOR THEIR EQUIPMENT IS SIZED PER MANUFACTURER'S RECOMMENDATIONS. ENGINEER SIZED OVERCURRENT PROTECTION ACCORDING TO MECHANICAL/PLUMBING DRAWINGS AND SPECIFICATIONS. ACTUAL EQUIPMENT SUPPLIED MAY DIFFER. ELECTRICAL CONTRACTOR SHALL WORK WITH OTHER TRADE DISCIPLINES TO INSURE ANY CHANGES WILL BE INSTALLED CORRECTLY AT THE COST OF THE PERSON MAKING THE CHANGES.
4. ALL FLEXIBLE CONNECT TO HVAC UNITS SHALL BE RUN PARALLEL TO HARD SURFACE AND STRAPPED AT LEAST EVERY 2'.
5. CONTRACTOR SHALL PROVIDE CONDUIT FOR MECHANICAL CONTROLS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
6. ALL DISCONNECTS TO HAVE NAMEPLATE AS SHOWN IN DETAIL (3) THIS SHEET, NO EXCEPTIONS.
7. PROVIDE DEDICATED NEUTRALS FOR EACH MULTIWIRED HOMERUN PER NEC.
8. COORDINATE WITH GENERAL EQUIPMENT SCHEDULES ON SHEET E3.2 FOR CIRCUITRY OF ALL EQUIPMENT TAGGED ON THIS SHEET.
9. SEE DETAIL 1/E3.2 FOR MECHANICAL UNIT CONNECTION DETAIL.



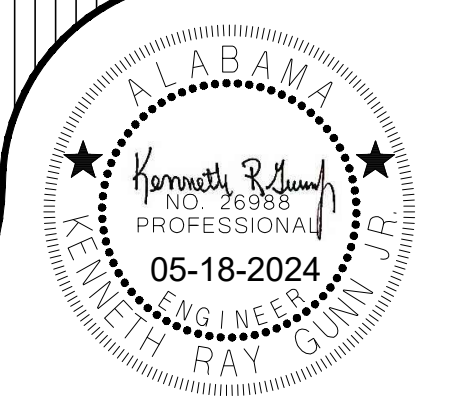
2 FLOOR PLAN - MECHANICAL POWER
SCALE: 1/8"=1'-0"



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SHEET TITLE: FLOOR PLAN - POWER

MCKEE JOB #: 23-251

DRAWN BY: J. TILLERY

DATE: 05.18.2024

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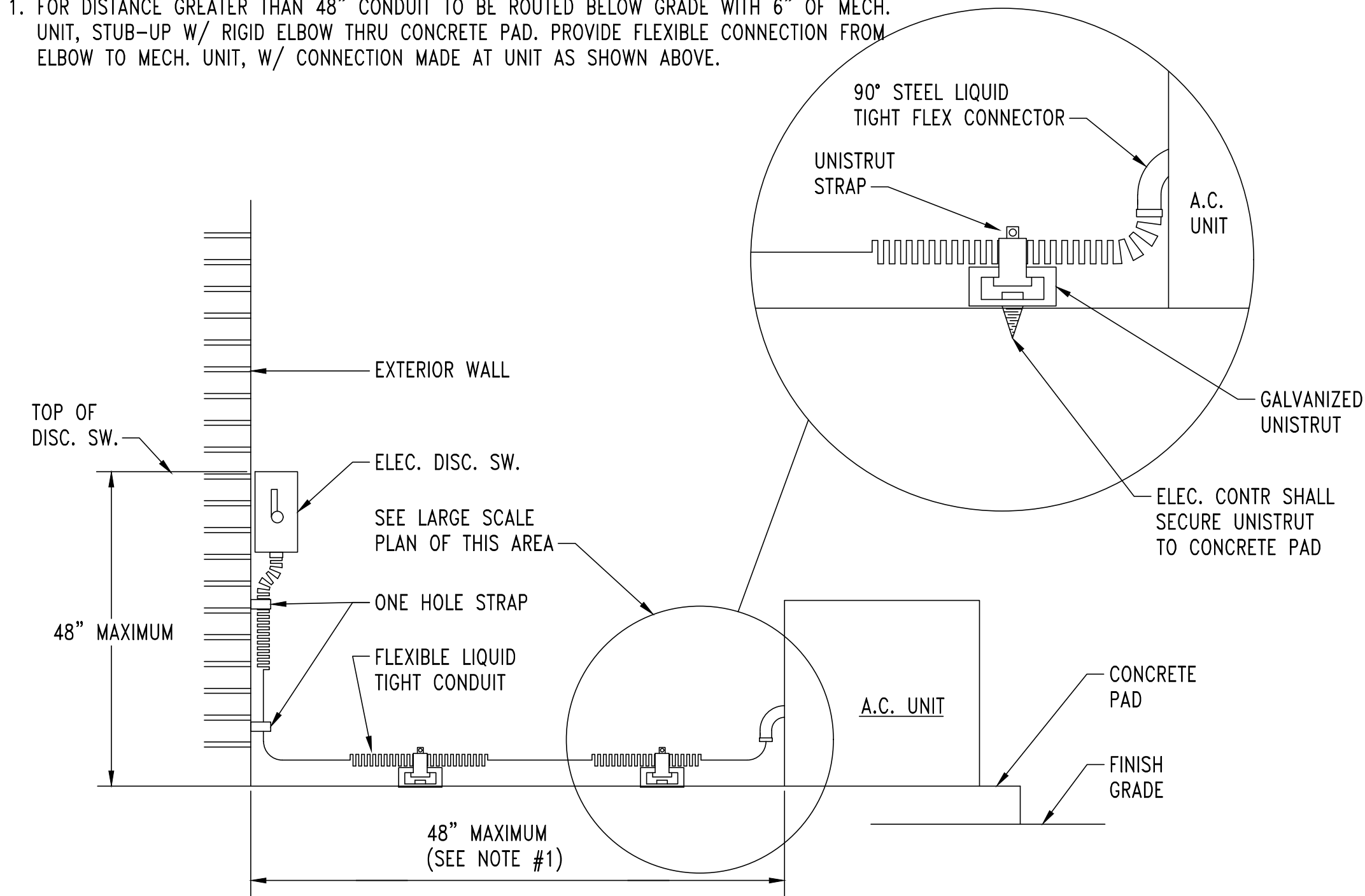
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SHEET NO.: **E3.1**

| GENERAL EQUIPMENT SCHEDULE | | | | | | | | | |
|----------------------------|------------------------|----------------|-----------------------------|-------|------|-------------|-------|-----------------|--------------------------|
| EQUIPMENT MARK: | EQUIPMENT DESCRIPTION: | VOLTAGE/PHASE: | ELECTRICAL CHARACTERISTICS: | | | DISCONNECT: | FUSE: | HOMERUN: | FEEDER: |
| | | | HP | KW | AMPS | | | | |
| CON-1 | MECH CONTROL | 120V/1PH | --- | 0.200 | --- | TS | --- | SE-A - 38 | 2#12 & 1#12GRD - 3/4" C |
| CP-1 | CIRCULATION PUMP | 120V/1PH | --- | 0.300 | --- | TS | --- | SE-A - 36 | 2#12 & 1#12GRD - 3/4" C |
| IHP-1 | INDOOR HEAT PUMP | 208V/1PH | 3/4 | 10 | --- | 60/3/1 | F | SE-A - 43,45,47 | 3#6 & 1#10GRD - 1 1/4" C |
| IHP-2 | INDOOR HEAT PUMP | 208V/1PH | 1 | 12 | --- | 60/3/1 | F | SE-A - 49,51,53 | 3#4 & 1#10GRD - 1 1/4" C |
| ODHP-1 | OUTDOOR DUCTLESS | 208V/1PH | --- | --- | 11 | 30/2/3R | F | SE-A - 9,11 | 2#10 & 1#10GRD - 3/4" C |
| OHP-1 | OUTDOOR HEAT PUMP | 208V/1PH | --- | --- | 12.5 | 30/3/3R | F | SE-A - 44,46,48 | 3#10 & 1#10GRD - 3/4" C |
| OHP-2 | OUTDOOR HEAT PUMP | 208V/1PH | --- | --- | 17.1 | 60/3/3R | F | SE-A - 50,52,54 | 3#8 & 1#10GRD - 1" C |
| TC-1 | TIME CLOCK | 120V/1PH | --- | 0.265 | --- | TS | --- | SE-A - 36 | 2#12 & 1#12GRD - 3/4" C |
| WH-1 | ELEC. WATER HTR | 208V3PH | --- | 4.5 | --- | 30/2/1 | F | SE-A - 32,34 | 2#10 & 1#10GRD - 3/4" C |

NOTES:
1. COORDINATE WITH MANUFACTURER'S OUTSHEETS OR NAMEPLATE DATA AND ADJUST OVERCURRENT PROTECTION AS NEEDED TO PROTECT EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND TO COMPLY WITH NEC AND ALL LOCAL CODES. COORDINATION SHALL BE DONE PRIOR TO BIDS AND ACCOUNTED FOR IN THE CONTRACTOR'S BID PRICE.
2. ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE.
3. ALL FUSES SHALL BE SIZED PER NAMEPLATE DATA.
4. "NF" - NON-FUSED
5. "F" - FUSED
6. "TS" MANUAL MOTOR STARTER WITH THERMAL OVERLOAD ("W" - WEATHERPROOF) ("30-AMP" - 30-AMP RATED)
7. PROVIDE INTERCONNECTING RELAY SUCH THAT FAN IS CONTROLLED BY LIGHTING.
8. "WP" - WEATHERPROOF ENCLOSURE.
9. CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS AND LOCATIONS FOR ALL CIRCULATING PUMPS AND TIME CLOCKS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
10. "*" ASTRICK MEANS PROVIDE SHUNT TRIP CIRCUIT BREAKER.

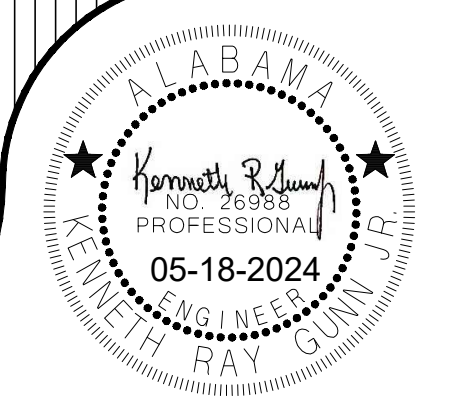
NOTE:
1. FOR DISTANCE GREATER THAN 48" CONDUIT TO BE ROUTED BELOW GRADE WITH 6" OF MECH. UNIT, STUB-UP W/ RIGID ELBOW THRU CONCRETE PAD. PROVIDE FLEXIBLE CONNECTION FROM ELBOW TO MECH. UNIT, W/ CONNECTION MADE AT UNIT AS SHOWN ABOVE.



1 MECHANICAL UNIT CONNECTION DETAIL
E3.2 NO SCALE

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SHEET TITLE : GENERAL EQUIPMENT SCHEDULE & DETAILS

MCKEE JOB # : 23-251

DRAWN BY : J. TILLERY

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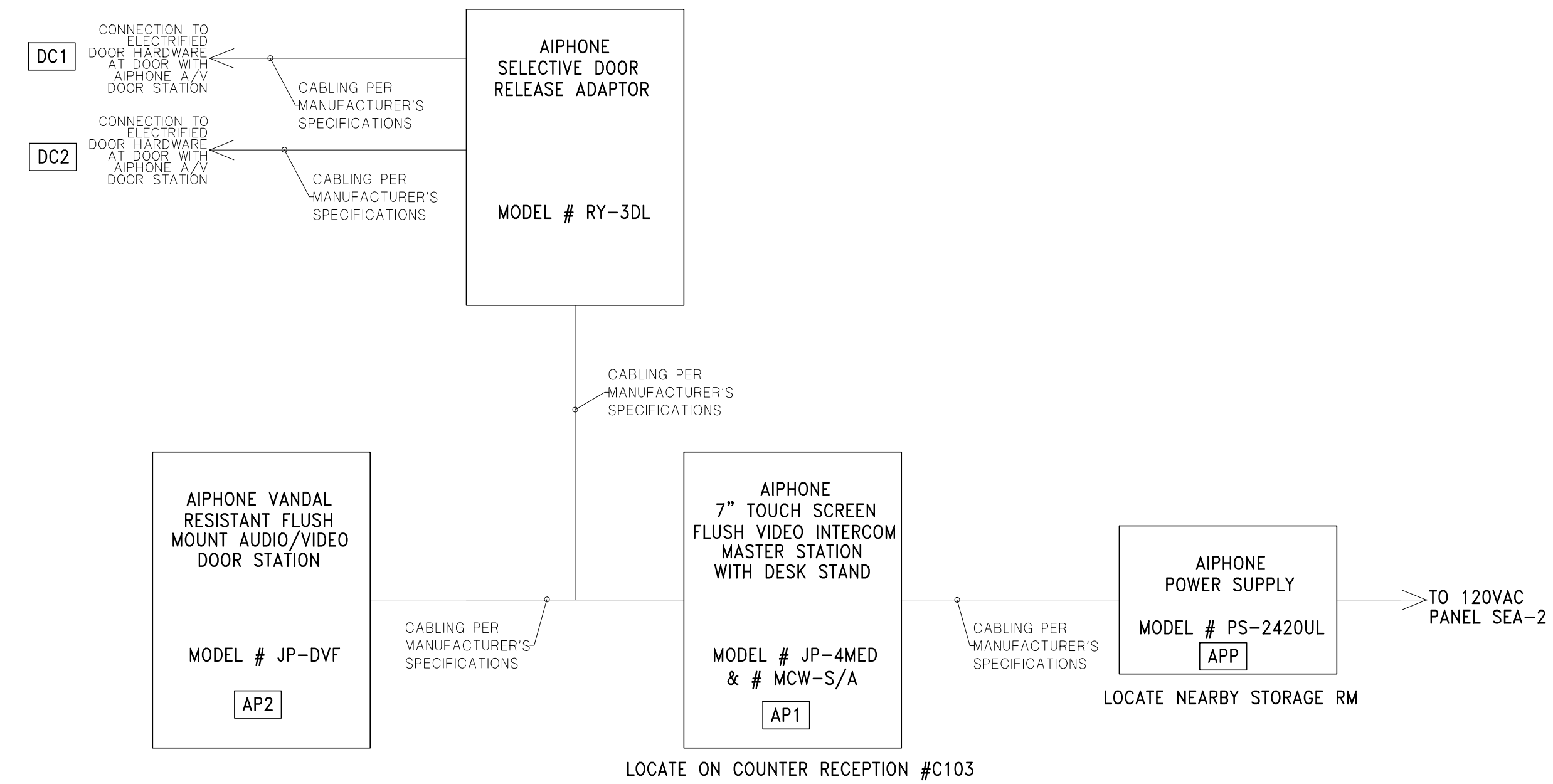
SHEET NO. : E3.2

INTERCOM SYSTEM NOTES:

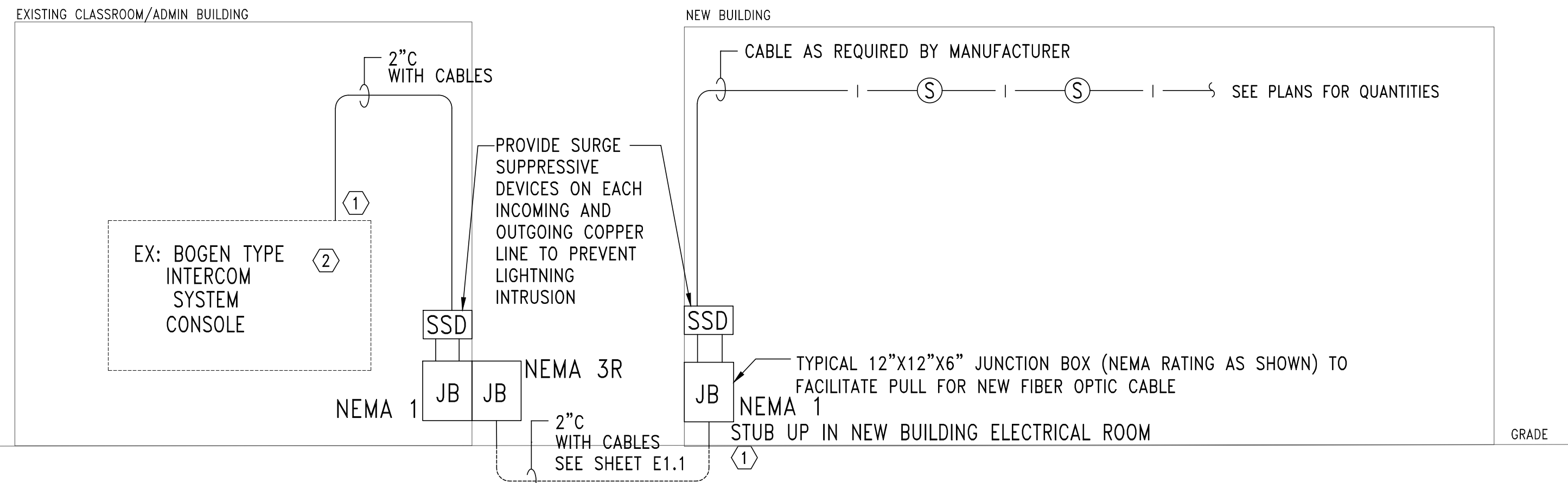
1. THE INTERCOM SYSTEM SHALL BE INSTALLED COMPLETE, WITH ALL EQUIPMENT, DEVICES, COMPONENTS, CABLE AND WIRING SYSTEMS, ETC., READY FOR OPERATION.
2. INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC), INSULATED CABLE ENGINEERS ASSOCIATION (ICEA) AND THE ELECTRONIC INDUSTRIES ASSOCIATION (EIA).
3. ALL SYSTEM COMPONENTS, ENCLOSURES, FRAMES, CONDUCTOR AND CABLE SHIELDS, ETC., SHALL BE GROUNDED. SYSTEM SHALL BE BONDED TO THE FACILITY GROUND ELECTRODE SYSTEM AS NOTED.
4. IN GENERAL THE INTERCOM WIRING SYSTEM SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR THE SYSTEM SPECIFIED.
5. ALL WIRING TO BE IN CONDUIT SIZED IN ACCORDANCE WITH NEC WITH A MINIMUM SIZE OF 3/4". STENCIL IN 2" HIGH LETTERS ON EVERY JUNCTION BOX COVER ABOVE CEILING THE LETTERS "INT".
6. ALL EQUIPMENT AND DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, APPLICABLE STANDARDS AND ACCESSIBLE FOR VISUAL INSPECTION AND MAINTENANCE. WIRING DIAGRAMS SHALL BE SECURED FROM THE SYSTEM MANUFACTURER AND INSTALLED ACCORDINGLY TO MEET THE SPECIFIED OPERATION.
7. A "CERTIFICATE OF COMPLETION" FROM THE MANUFACTURER'S REPRESENTATIVE SHALL BE FURNISHED PRIOR TO FINAL ACCEPTANCE.
8. INTERCOM SYSTEM PROVIDER IS RESPONSIBLE FOR PROVIDING SIGNAL LINE BOOSTERS AND AMPLIFIERS AS REQUIRED FOR SYSTEM TO FUNCTION PROPERLY.
9. PROVIDE PROPERLY SIZED JUNCTION BOXES TO HOUSE DEVICES. COORDINATE WITH SHOP DRAWING PRIOR TO ROUGH-IN. INCLUDE IN BID ALL MATERIAL NECESSARY TO MOUNT AND CONNECT DEVICES PER MANUFACTURER'S RECOMMENDATIONS.

INTERCOM SHEET NOTES:

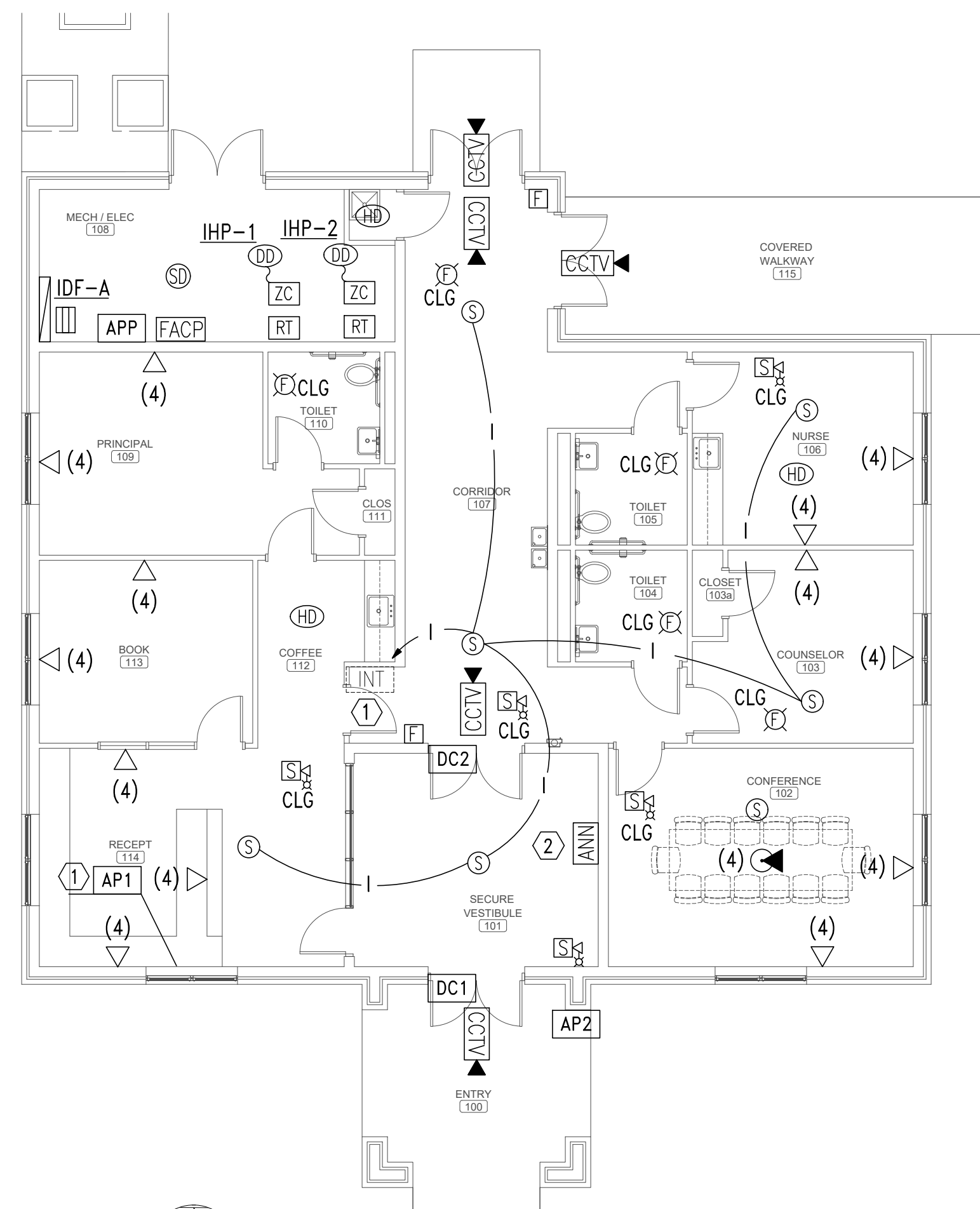
- 1 PROVIDE SURGE SUPPRESSION ON ALL INCOMING AND OUTGOING CABLES WHERE THEY ENTER OR EXIT THE FACILITY. SURGE SUPPRESSION WILL BE REQUIRED FOR EACH CABLE.
- 2 MODIFY EXISTING INTERCOM SYSTEM AS REQUIRED TO ACCOMMODATE ADDITIONAL DEVICES.



2 DOOR SECURITY SYSTEM
NO SCALE



3 INTERCOM/CLASS BELL RISER DIAGRAM
NO SCALE



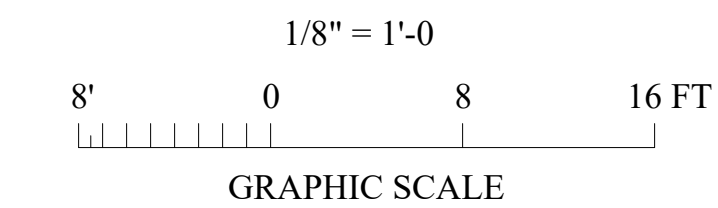
1 FLOOR PLAN - AUXILIARY
SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. ALL CONDUIT SHALL STUB ABOVE ACCESSIBLE CEILING. PROVIDE PROTECTIVE PLASTIC COLLAR AT STUB AND PULLSTRING.
2. COORDINATE AND MOUNT COMMUNICATIONS OUTLETS WITHIN 6" OF CORRESPONDING POWER RECEPTACLE.
3. COORDINATE ALL MOUNTING HEIGHTS WITH MILLWORK SHOP DRAWINGS TO INSURE CORRECT MOUNTING HEIGHT AND LOCATION PRIOR TO ROUGH-IN.

SHEET NOTE:

- 1 CONTRACTOR SHALL CONNECT NEW INTERCOM DEVICES TO EXISTING "BOGAN" TYPE INTERCOM SYSTEM. CONTRACTOR SHALL MODIFY EXISTING INTERCOM CONSOLE SYSTEM AS REQUIRED TO ACCOMMODATE NEW INTERCOM DEVICES. PROVIDE SURGE SUPPRESSION ON ALL INCOMING AND OUTGOING CABLES FROM BUILDING TO BUILDING.
- 2 PROVIDE FLUSH MOUNTING FOR FIRE ALARM ANNUCIATOR PANEL.



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SHEET TITLE : FLOOR PLAN - AUXILIARY

MCKEE JOB # : 23-251

DRAWN BY : J. TILLERY

DATE : 05.18.2024

REVISED DATE :

REVISED DATE :

REVISED DATE :

SHEET NO. : E4.1

NEW ADMIN BUILDING
AT
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631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933

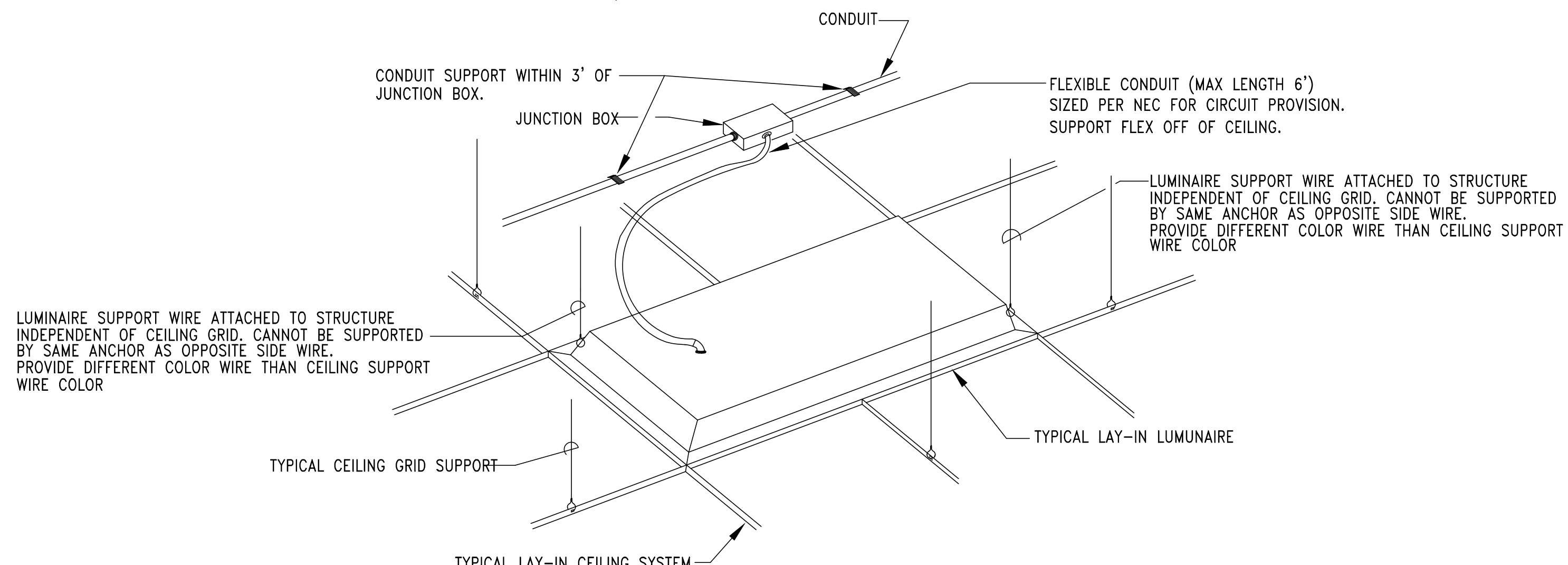


| LIGHTING FIXTURE SCHEDULE | | | | | | |
|---------------------------|---|----------|-----------------------|------------|----------------------------|--|
| TYPE: | MANUFACTURER NUMBER AND EQUALS: | VOLTAGE: | MOUNTING: | LAMP TYPE: | LAMP QUANTITY: | DESCRIPTION: |
| A | MANNING LIGHTING NO. DP-292-XX-8129-40-10-120-WH-CBL OR EQUALS BY WILLIAMS, LUMAX, OR COOPER | MVOLT | PENDANT | LED | 5081 LUMENS 3710 LUMENS | LED PENDANT MOUNT BOWL FIXTURE WITH UP/DOWN LIGHT. PROVIDE WITH AIRCRAFT CABLE. 0-10V DIMMING. |
| D1 | PRESCOLITE NO. LTR-RED-H-M-L-DM1-4V-EMR-XL-40K-8-WD OR EQUALS BY WILLIAMS, LUMAX, OR COOPER | MVOLT | RECESSED | LED | 3000 LUMEN | 6 INCH 3000 LUMEN LED DOWNLIGHT 4000K TEMPERATURE LAMPS AND FEATURE REMOTE PHOSPHOR TECHNOLOGY ENABLING A HIGH SYSTEM EFFICACY AND MINIMUM 80 CRI. 0-10V DIMMING |
| D2 | PRESCOLITE NO. LTR-RED-H-M-L-20L-DM1-4V-EMR-XL-40K-8-WD OR EQUALS BY WILLIAMS, LUMAX, OR COOPER | MVOLT | RECESSED | LED | 2000 LUMEN | 6 INCH 2000 LUMEN LED DOWNLIGHT 4000K TEMPERATURE LAMPS AND FEATURE REMOTE PHOSPHOR TECHNOLOGY ENABLING A HIGH SYSTEM EFFICACY AND MINIMUM 80 CRI. WET LOCATION |
| LG48 | HUBBELL NO. LCAT-24-40K-M-L-G-ED-MVOLT OR EQUALS BY WILLIAMS, LUMAX, OR COOPER | MVOLT | RECESSED | LED | 5000 LUMEN | 2'X4' 5000-LUMEN VOLUMETRIC FIXTURE. 0-10V DIMMING CAPABLE. |
| LG60 | HUBBELL NO. LCAT-24-40K-M-L-G-ED-MVOLT OR EQUALS BY WILLIAMS, LUMAX, OR COOPER | MVOLT | RECESSED | LED | 6000 LUMEN | 2'X4' 6000-LUMEN VOLUMETRIC FIXTURE. 0-10V DIMMING CAPABLE. |
| LG72 | HUBBELL NO. LCAT-24-40K-M-L-G-ED-MVOLT OR EQUALS BY WILLIAMS, LUMAX, OR COOPER | MVOLT | RECESSED | LED | 7200 LUMEN | 2'X4' 7200-LUMEN VOLUMETRIC FIXTURE. 0-10V DIMMING CAPABLE. |
| LS1 | HUBBELL NO. LCL-4-40K-M-L-E-MVOLT OR EQUALS BY WILLIAMS, LUMAX, OR COOPER | MVOLT | SURFACE OR CHAIN HUNG | LED | 5000 LUMEN | SURFACE MOUNTED 4'-0" LED STRIP. CHAIN HANG WHEN SURFACE MOUNT IS NOT POSSIBLE. |
| LS2 | HUBBELL NO. LCL-24-40K-M-L-E-MVOLT-WIREGUARD OR EQUALS BY WILLIAMS, LUMAX, OR COOPER | MVOLT | WALL WELDING BOOTH | LED | 2850 LUMEN | SURFACE MOUNTED 2'-0" LED STRIP WITH WIREGUARD. CHAIN HANG WHEN SURFACE MOUNT IS NOT POSSIBLE. |
| WP1 | HUBBELL NO. QSP-30L-4000K-053-TYPE 3-U-COLOR BY ARCH - SCP-20F OR EQUALS BY WILLIAMS, LUMAX, OR COOPER | MVOLT | WALL | LED | 5700 LUMEN | DARK BRONZE EXTERIOR LED LIGHT. UL LISTED FOR WET LOCATIONS. |
| EM WALL PACK | COMPASS NO. CL2H-LHSD - WIREGUARDS IN GYM OR PRIOR APPROVED EQUAL BY EMERG-LITE, MCPHILBEN, OR PRESCOLITE | MVOLT | WALL | LED | 1000 LUMEN | 1000 LUMEN LED EMERGENCY WALL PACK |
| EXIT SIGN COMBO "X" | DUAL-LITE NO. EVCHLUPW12-0BL OR PRIOR APPROVED EQUAL BY EMERG-LITE, MCPHILBEN, OR PRESCOLITE | MVOLT | UNIVERSAL | LED | 1000 LUMEN | THERMOPLASTIC 1000-LUMEN COMBO LED EXIT SIGN EGRESS LIGHT. PROVIDE WITH NUMBER OF FACES AND DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS. COORDINATE COLOR OF SIGNAGE WITH LOCAL REQUIREMENTS. PROVIDE WITH EMERGENCY BATTERY. PROVIDE WIREGUARDS IN GYM. |

- NOTES:
1. ARCHITECT RESERVES THE RIGHT TO SELECT ALL COLORS OR MAKE CUSTOM COLOR DURING SHOP DRAWING REVIEW. BID ACCORDINGLY.
 2. COORDINATE MOUNTING OF ALL LUMINAIRES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
 3. PROVIDE EMERGENCY BATTERY BALLAST FOR ALL EMERGENCY TYPE FIXTURES CAPABLE OF 90 MINUTES. ALL EMERGENCY LIGHTS IN SAFE AREA SHALL BE CONNECTED TO THE BATTERY INVERTER FOR 180-MINUTES OF RUN TIME.
 4. FOR WARRANTY AND LONG TERM SUPPORT FOR OWNER, ALL LIGHTING FIXTURES SHALL BE PURCHASED THROUGH MANUFACTURER REPRESENTATIVES LOCATED IN THE STATE OF ALABAMA. SUBMITTALS RECEIVED THAT DO NOT COMPLY WITH THIS REQUIREMENT WILL BE REJECTED WITHOUT REVIEW. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAYS CAUSED BY NON COMPLIANCE WITH THIS REQUIREMENT.
 5. ALL INTERIOR LIGHTS SHALL HAVE 4000K TEMPERATURE LAMPS, UNLESS NOTED OTHERWISE.
 6. ALL EXTERIOR LIGHTS SHALL HAVE 4000K TEMPERATURE LAMPS.

NOTES:

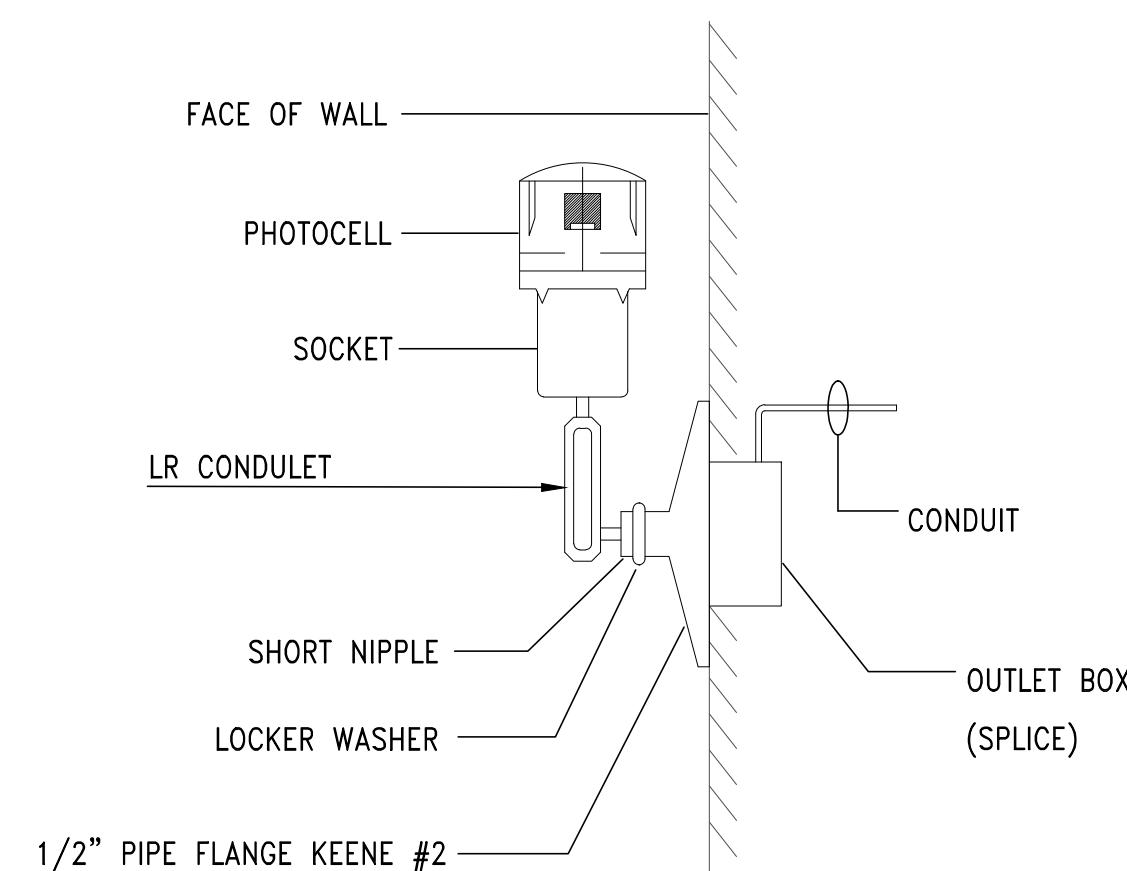
1. ALL RECESSED LUMINAIRES SHALL BE WIRED FROM A JUNCTION BOX AS SHOWN, INCLUDING LUMINAIRES IN A CONTINUOUS ROW. NO WIRING THRU FIXTURES. NO MORE THAN TWO LUMINAIRES SHALL BE CIRCUITED TO ONE JUNCTION BOX.
2. LUMINAIRE SUPPORT WIRES TO BE A MINIMUM OF #14 GAGE PRE-STRAINED GALVANIZED WIRE ATTACHED AT OPPOSITE CORNERS. LUMINAIRE SHALL BE SUPPORTED TO THE STRUCTURE INDEPENDENT OF THE CEILING GRID.
3. CONDUCTORS IN FLEXIBLE CONDUIT FROM JUNCTION BOX TO LUMINAIRE SHALL CONTAIN AN INSULATED GREEN GROUND WIRE, WITH NEUTRAL AND PHASE CONDUCTORS REQUIRED FOR THE CIRCUITING AND SWITCHING REQUIREMENTS INDICATED.
4. JUNCTION BOXES SHALL BE ACCESSIBLE AND LOCATED WITHIN 1'-6" ABOVE LAY-IN CEILING INSTALLATION. PROVIDE PENDANT ALL-THREAD RODS AND/OR STRUT ASSEMBLIES TO MEET THIS REQUIREMENT WHERE DROP CEILING IS MORE THAN 1'-6" FROM STRUCTURE.
5. CONTRACTOR SHALL INSTALL ALL T-BAR SAFETY CLIPS TO GRID. IF FIXTURE DOES NOT COME WITH GRID SAFETY CLIPS, THEN THE CONTRACTOR SHALL PROVIDE SUPPORT WIRES ON ALL FOUR SIDES.



1
ES.1
NO SCALE
DETAIL - TYPICAL LAY-IN LUMINAIRE INSTALLATION

NOTES

1. PAINT CONDUIT NIPPLE, SOCKET AND PIPE FLANGE WITH TWO COATS OF ENAMEL.
2. COMPLETE ASSEMBLY TO BE UL LISTED FOR WET LOCATIONS.
3. PHOTOCELL TO BE MOUNTED FACING NORTH FREE FROM ALL SHADOWS WHICH MIGHT CAUSE PHOTOCELL TO TURN LIGHTS ON EARLY. CONTRACTOR SHALL COORDINATE PROPER MOUNTING LOCATION PRIOR TO INSTALLATION.



2
ES.1
NO SCALE
DETAIL - INSTALLATION OF PHOTO-CELL

LUMINAIRE NOTES:

1. ALL LUMINAIRES AND INSTALLATION SHALL BE IN ACCORDANCE WITH NEC, NFPA AND LOCAL CODES. ALL LUMINAIRES SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THE UL LISTING.
2. LUMINAIRES SHALL BE FURNISHED COMPLETE WITH THE PROPER LAMP BASE OR PIN RECEPTORS, WIRING COMPONENTS, LAMPS, SUPPORTING FRAMES AND DEVICES, ETC., FOR A COMPLETE INSTALLATION.
3. ALL LUMINAIRE DEVICES, COMPONENTS, FITTINGS, SUPPORTS, ETC., SHALL BE COORDINATED TO PROVIDE A COMPLETE UL LISTED INSTALLATION
4. ALL LUMINAIRES BALLAST, DRIVERS, LAMPS, ETC SHALL BE COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM OR DIMMING CONTROL SYSTEM PROVIDED.
5. SECURE EACH LAY-IN LUMINAIRE AT TWO LOCATIONS TO THE CEILING GRID. PROVIDE BOLTS, SCREWS, RIVETS OR APPROVED CLIPS FOR USE WITH THE TYPE CEILING AND LUMINAIRE INSTALLED.
6. ALL LUMINAIRES IN MECHANICAL AND ELECTRICAL ROOMS SHALL BE INSTALLED TO CLEAR ELECTRICAL EQUIPMENT, DUCT, PIPING, ETC., SUSPEND BELOW OBSTRUCTION WHEN CONFLICTS OCCUR.
7. ALL LED LUMINAIRES SHALL BE PROVIDED WITH 4000K COLOR TEMPERATURE LAMPS, UNLESS NOTED OTHERWISE.
8. ARCHITECT RESERVES THE RIGHT TO SELECT ALL COLORS FOR LUMINAIRES, POLES, MOUNTING ACCESSORIES, ETC. DURING SHOP DRAWING REVIEW.
9. COORDINATE LUMINAIRE MOUNTING WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
10. ALL EXIT SIGNS AND LUMINAIRES DESIGNATED AS EMERGENCY SHALL BE PROVIDED WITH A MINIMUM 1100 LUMEN EMERGENCY BATTERY BALLAST CAPABLE OF 90 MINUTES OF ILLUMINATION. X DESIGNATION MEANS DIFFERENT TYPE BATTERY SEE SCHEDULE.
11. CONTRACTOR SHALL PROVIDE ALL SLOPE ADAPTERS, FLANGE KITS, TRIMS, AND ALL OTHER MOUNTING ACCESSORIES AS NEEDED TO MOUNT EACH LUMINAIRE IN CEILINGS AS SHOWN. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
12. PROVIDE ALL EXIT SIGNS WITH DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS.

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SHEET TITLE: LIGHTING SCHEDULE, DETAILS & NOTES

MCKEE JOB #: 23-251

DRAWN BY: J. TILLERY

DATE: 05.18.2024

REVISED DATE:

REVISED DATE:

REVISED DATE:

GA Gunn & Associates, P.C.
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3102 Highway 14 Millbrook, AL 36054
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SHEET NO.: E5.1

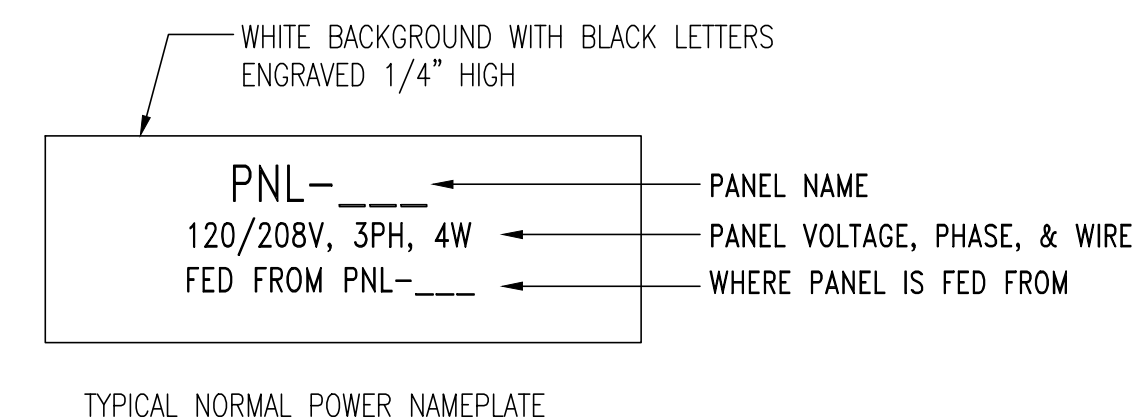
| PANEL - SE-A | | | | | | | | | | | | | |
|-----------------------------|----------------|---------|---------------------|-----|------|------------------|-----|------|---|---------|---------|-------------------|----------------|
| TYPE: 400 AMP MAIN LUG ONLY | | | AIC: 42,000 AMPERES | | | MOUNTED: SURFACE | | | VOLTAGE: 120/208 VOLTS, 3 PHASE, 4 WIRE | | | | |
| CIRCUIT DIRECTORY | (VA) PER PHASE | | | AMP | POLE | CIRCUIT NUMBER | AMP | POLE | (VA) PER PHASE | | | CIRCUIT DIRECTORY | |
| | PHASE A | PHASE B | PHASE C | | | | | | PHASE A | PHASE B | PHASE C | | |
| LIGHTS | 1,490 | | | 20 | 1 | 1 | 2 | 20 | 1 | 1,200 | | | RECEPTACLE |
| LIGHTS | | 954 | | 20 | 1 | 3 | 4 | 20 | 1 | | 1,200 | | RECEPTACLE |
| LIGHTS | | | 704 | 20 | 1 | 5 | 6 | 20 | 1 | | | 1,200 | RECEPTACLE |
| EXTERIOR LIGHTS | 445 | | | 20 | 1 | 7 | 8 | 20 | 1 | 1,200 | | | RECEPTACLE |
| ODHP-A1 | | 915 | | 30 | | 9 | 10 | 20 | 1 | | 1,200 | | RECEPTACLE |
| | | | 915 | 2 | | 11 | 12 | 20 | 1 | | | 1,200 | RECEPTACLE |
| RECEPTACLE | 1,200 | | | 20 | 1 | 13 | 14 | 20 | 1 | 1,200 | | | RECEPTACLE |
| RECEPTACLE | | 1,200 | | 20 | 1 | 15 | 16 | 20 | 1 | | 1,200 | | RECEPTACLE |
| BUSSED SPACE | | | | | | 17 | 18 | 20 | 1 | | | 1,200 | RECEPTACLE |
| BUSSED SPACE | | | | | | 19 | 20 | 20 | 1 | 1,200 | | | RECEPTACLE |
| BUSSED SPACE | | | | | | 21 | 22 | 20 | 1 | | 1,200 | | RECEPTACLE |
| BUSSED SPACE | | | | | | 23 | 24 | 20 | 1 | | | 1,200 | RECEPTACLE |
| BUSSED SPACE | | | | | | 25 | 26 | 20 | 1 | 1,200 | | | RECEPTACLE |
| BUSSED SPACE | | | | | | 27 | 28 | 20 | 1 | | 1,200 | | RECEPTACLE |
| BUSSED SPACE | | | | | | 29 | 30 | 20 | 1 | | | 1,200 | RECEPTACLE |
| BUSSED SPACE | | | | | | 31 | 32 | 30 | | 2,250 | | | WH-1 |
| BUSSED SPACE | | | | | | 33 | 34 | | 2 | | 2,250 | | |
| BUSSED SPACE | | | | | | 35 | 36 | 20 | 1 | | | 600 | CP-1 & TC-1 |
| BUSSED SPACE | | | | | | 37 | 38 | 20 | 1 | 600 | | | CON-1 |
| BUSSED SPACE | | | | | | 39 | 40 | 20 | 1 | | | | SPARE |
| BUSSED SPACE | | | | | | 41 | 42 | 20 | 1 | | | | SPARE |
| IHP-1 | 3,840 | | | 50 | | 43 | 44 | 30 | | 1,500 | | | OHP-1 |
| | | 3,840 | | | | 45 | 46 | | | | 1,500 | | |
| | | | 3,840 | | 3 | 47 | 48 | | 3 | | | 1,500 | |
| IHP-2 | 4,560 | | | 60 | | 49 | 50 | 40 | | 2,052 | | | OHP-2 |
| | | 4,560 | | | | 51 | 52 | | | | 2,052 | | |
| | | | 4,560 | | 3 | 53 | 54 | | 3 | | | 2,052 | |
| BUSSED SPACE | | | | | | 55 | 56 | 20 | 1 | | | | SPARE |
| BUSSED SPACE | | | | | | 57 | 58 | 20 | 1 | | | | SPARE |
| BUSSED SPACE | | | | | | 59 | 60 | 20 | 1 | | | | SPARE |
| BUSSED SPACE | | | | | | 61 | 62 | 20 | 1 | | | | SPARE |
| BUSSED SPACE | | | | | | 63 | 64 | 20 | 1 | | | | SPARE |
| BUSSED SPACE | | | | | | 65 | 66 | 20 | 1 | | | | SPARE |
| BUSSED SPACE | | | | | | 67 | 68 | 20 | 1 | | | | SPARE |
| BUSSED SPACE | | | | | | 69 | 70 | 20 | 1 | | | | SPARE |
| BUSSED SPACE | | | | | | 71 | 72 | 20 | 1 | | | | SPARE |
| BUSSED SPACE | | | | | | 73 | 74 | 20 | 1 | | | | SPARE |
| BUSSED SPACE | | | | | | 75 | 76 | 20 | 1 | | | | SPARE |
| BUSSED SPACE | | | | | | 77 | 78 | 20 | 1 | | | | SPARE |
| BUSSED SPACE | | | | | | 79 | 80 | 20 | 1 | | | | SPARE |
| BUSSED SPACE | | | | | | 81 | 82 | 20 | 1 | | 600 | | IDF-A |
| BUSSED SPACE | | | | | | 83 | 84 | 20 | 1 | | | 600 | FACP (NOTE 2) |
| SUB TOTAL (VA) | 11,555 | 11,469 | 10,019 | | | | | | | 12,402 | 12,402 | 10,752 | SUB TOTAL (VA) |

TOTAL LOAD PHASE A: 23,937 (VA)
TOTAL LOAD PHASE B: 23,871 (VA)
TOTAL LOAD PHASE C: 20,771 (VA)
TOTAL LOAD: 68,579 (VA) = 190 AMPS

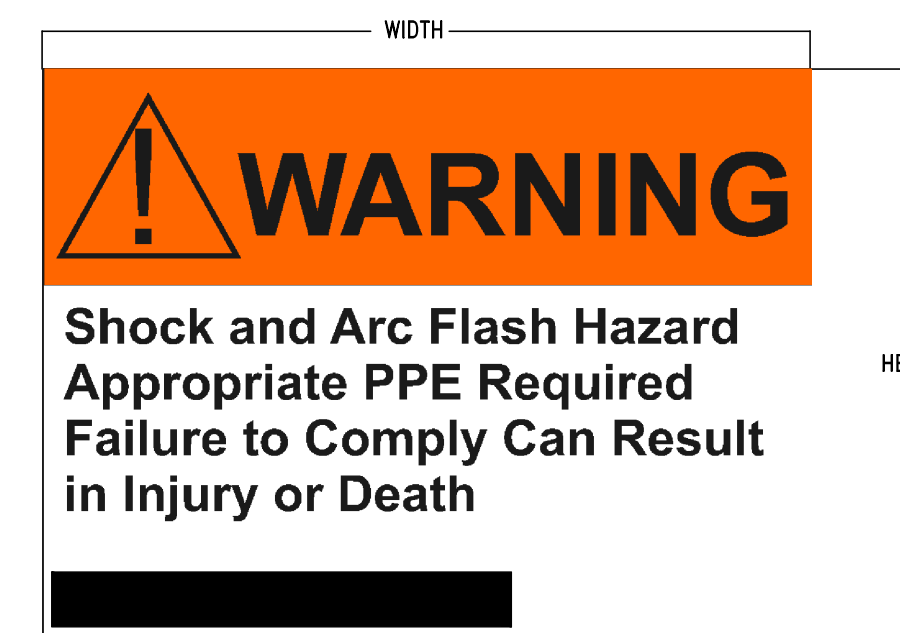
- NOTES:
1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION.
2. PROVIDE LOCK HANDLE CIRCUIT BREAKER.
3. PROVIDE INTEGRAL TVSS UNIT.
4. PROVIDE PANEL WITH NAME PLATE INDICATING AIC RATING.
5. PROVIDE ARC FAULT LABEL PER DETAIL.

PANELBOARD NOTES:

- PANELBOARDS SHALL BE INSTALLED AND ALL CLEARANCES MAINTAINED IN ACCORDANCE WITH THE NEC.
- ALL PANELBOARDS SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THAT LISTING.
- PANELBOARDS SHALL BE FURNISHED COMPLETE WITH THE PROPERLY SIZED ENCLOSURE, INTERNAL HARDWARE, COMPONENTS, SUPPORTING STRUCTURES, ETC., FOR A COMPLETE INSTALLATION.
- FURNISH EACH PANELBOARD WITH A GROUND BAR BONDED TO THE PANEL ENCLOSURE.
- THE TERMINATION POINT OF THE FEEDER SERVING EACH ASSEMBLY SHALL BE AT THE NEAREST POINT OF FEEDER ENTRY INTO THE PANEL, SO AS TO MINIMIZE CONDUCTOR FILL IN THE ENCLOSURE. COORDINATE TOP/BOTTOM FEED PANELBOARD PROVISIONS WITH EACH FEEDER INSTALLATION.
- PROVIDE THE PROPER SIZE AND QUANTITY OF CONDUCTOR TERMINATION POINTS OR LUGS (MULTIPLE LUGS WHEN PARALLEL FEEDERS ARE USED) ON BUSES AND CIRCUIT BREAKERS FOR THE RESPECTIVE SIZE AND NUMBER OF CONDUCTORS INDICATED.
- ALL FLUSH-MOUNTED PANELBOARDS SHALL BE PROVIDED WITH AT LEAST SIX (6) 3/4" SPARE CONDUITS STUBBED TO ABOVE THE NEAREST ACCESSIBLE CEILING.
- PANELBOARDS SHALL BE FULLY RATED. SERIES RATED PANELBOARDS WILL NOT BE ACCEPTED.
- ALL PANELBOARDS SHALL BE CLEARLY MARKED TO COMPLY WITH NEC ARTICLE 110.16 WITH REGARD TO POTENTIAL HAZARDS OF ARC FLASH.
- ALL PANELBOARDS SHALL BE "DOOR-IN-DOOR" OR "HINGED-FRONT-TRIM" CONSTRUCTION.
- COMPLY WITH NEC ARTICLE 408.4. PROVIDE A TYPED CIRCUIT DIRECTORY THAT INDICATES WHAT EACH CIRCUIT IS SERVING. FOR LIGHTING AND RECEPTACLE CIRCUITS, INCLUDE THE ROOM NUMBER IN THE CIRCUIT DESCRIPTION ON THE DIRECTORY.
- EACH PANELBOARD SHALL HAVE A NAMEPLATE AS SHOWN IN DETAIL 1 ON THIS SHEET. ENGINEER WILL NOT PROVIDE FINAL ACCEPTANCE UNTIL THESE NAMEPLATES ARE PROVIDED.



1
E5.2
NO SCALE
DETAIL - TYPICAL PANELBOARD NAMEPLATE



- NOTES:
- PROVIDE SELF-ADHESIVE VINYL LABEL TO AFFIX TO ELECTRICAL EQUIPMENT TO WARN OF ARC FLASH HAZARDS.
 - THE LABEL FORMAT AND TEXT SHALL BE IN ACCORDANCE WITH THE FIGURE.
 - THE LABEL SHALL BE LOCATED ON THE EQUIPMENT TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
 - THE SIZE OF THE LABEL SHALL BE:

| EQUIPMENT TYPE | HEIGHT | WIDTH |
|----------------|--------|-------|
| INDOOR | 4" | 6" |
| OUTDOOR | 4" | 6" |

2
E5.2
NO SCALE
ARC FLASH WARNING LABELS

POWER EQUIPMENT MANUFACTURERS BIDDING THIS PROJECT SHALL INCLUDE IN THEIR BASE BID PRICE AN AND ALL EXPEDITED CHARGES AS REQUIRED TO SHIP SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, AND DISCONNECTS TO THE JOB SITE S REQUIRED TO MEET PROJECT SCHEDULE. CONTRACTOR AND SUPPLIER SHALL SET THIS TIME PRIOR TO BID ACCORDING PUBLISHED SCHEDULE IN BID DOCUMENTS.

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SHEET TITLE: PANELBOARD SCHEDULE, DETAILS & NOTES

MCKEE JOB #: 23-251

DRAWN BY: J. TILLERY

DATE: 05.18.2024

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO.: E5.2

FIRE ALARM SYSTEM NOTES:

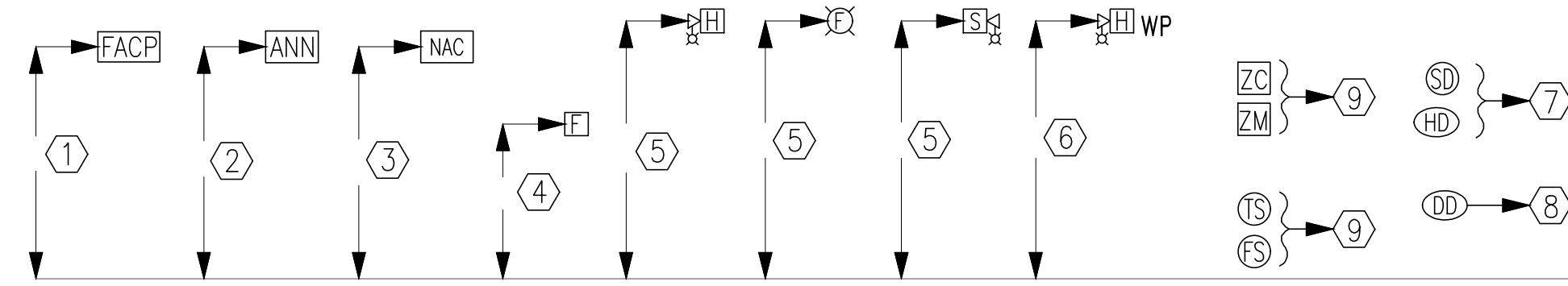
1. THE FIRE ALARM SYSTEM SHALL BE A COMPLETE SUPERVISED DETECTION AND ALARM SYSTEM. PROVIDE PRIMARY POWER CIRCUITS AND ALARM NOTIFICATION AND INITIATING CIRCUITS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
2. INSTALLATION SHALL COMPLY WITH THE ADA, NEC, NFPA, AND UL.
3. ALL SYSTEM COMPONENTS, ENCLOSURES, FRAMES, SURGE ARRESTORS, ETC., SHALL BE GROUNDED.
4. THE FIRE ALARM WIRING SYSTEM SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR CLASS "B" SYSTEM AND AS FOLLOWS:
PRIMARY POWER - 120V AC
NOTIFICATION APPLIANCE CIRCUITS (NAC) - 24V DC
SIGNALLING LINE CIRCUIT (SLC) - 24V DC
5. ALL EQUIPMENT AND DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, APPLICABLE STANDARDS AND ACCESSIBLE FOR VISUAL INSPECTION AND MAINTENANCE. WIRING DIAGRAMS SHALL BE SECURED FROM THE SYSTEM MANUFACTURER AND INSTALLED ACCORDINGLY TO MEET THE SPECIFIED TYPES.
6. A "CERTIFICATE OF COMPLETION" IN ACCORDANCE WITH NFPA 72 SHALL BE FURNISHED PRIOR TO FINAL ACCEPTANCE.
7. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND PROVIDING ALL FIRE ALARM DEVICE QUANTITIES FROM AUXILIARY DRAWINGS. DO NOT USE THIS RISER FOR DEVICE COUNTS.
8. PROVIDE ADDITIONAL NOTIFICATION APPLIANCE CIRCUIT PANELS, AMPLIFIERS, POWER SUPPLIES, ETC. FOR FUTURE CAPACITY TO HAVE SYSTEM WORK CORRECTLY AS ONE SYSTEM.
9. PROVIDE ADDITIONAL 100% SPARE CAPACITY IN FIRE ALARM CONTROL PANEL FOR FUTURE USE.
10. PROVIDE EMERGENCY BATTERIES CAPABLE OF RUNNING THE COMPLETE FIRE ALARM SYSTEM IN ALARM MODE, PER NFPA GUIDELINES AT A MINIMUM. BATTERIES SHALL BE SIZED TO HANDLE THE FUTURE CAPACITY.
11. THE FIRE ALARM SYSTEM SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. PROVIDE IP DIALER FOR MONITORING OF THE FIRE ALARM SYSTEM.
12. ALL WIRING TO BE IN CONDUIT SIZED IN ACCORDANCE WITH NEC WITH A MINIMUM SIZE OF 3/4". PROVIDE ALL FIRE ALARM CONDUIT WITH 3" WIDE RED STRIPE EVERY 10' FOR LENGTH OF RUN.
13. PROVIDE ALL FIRE ALARM JUNCTION BOXES WITH RED COVER, STENCIL THE LETTERS "FA" IN 2" HIGH LETTERS ON EACH BOX COVER.
14. FIRE ALARM SYSTEM PROVIDER IS RESPONSIBLE FOR PROVIDING SIGNAL LINE BOOSTERS AS REQUIRED FOR SYSTEM TO FUNCTION PROPERLY.
15. IN ADDITION TO THE DEVICES INDICATED ON THE PLANS THE CONTRACTOR SHALL PROVIDE A SMOKE DETECTOR LOCATED WITHIN 5 FEET OF EACH FIRE ALARM NOTIFICATION APPLIANCE PANEL.
16. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL 120 VOLT CIRCUITS NEEDED TO MAKE THE FIRE ALARM SYSTEM A COMPLETE FUNCTIONAL SYSTEM.
17. PROVIDE VOICE EVACUATION PER IBC SECTION 907 AND ALL SECTIONS OF THE INTERNATIONAL FIRE CODE.

SHEET NOTES:

1. PROVIDE A UL LISTED CELLULAR COMMUNICATOR IN THE NEW FIRE ALARM PANEL. PROVIDE TWO YEARS OF CELLULAR MONITORING FROM THE DATE OF FINAL ACCEPTANCE.
2. RED MC CABLING WILL BE ALLOWED FOR FIRE ALARM CABLING WHEN CONCEALED ABOVE CEILINGS.

FIRE ALARM MOUNTING HEIGHTS/INSTRUCTIONS NOTES:

1. MOUNT FIRE ALARM ENCLOSURE WITH THE TOP OF THE CABINET 72" ABOVE THE FINISHED FLOOR OR CENTER THE CABINET AT 63", WHICHEVER IS LOWER.
2. MOUNT ANNUNCIATOR WITH THE TOP OF THE PANEL 72" ABOVE THE FINISHED FLOOR OR CENTER OF THE PANEL AT 63", WHICHEVER IS LOWER. FLUSH MOUNT ANNUNCIATOR UNLESS OTHERWISE NOTED.
3. REMOTE POWER SUPPLIES AND AUXILIARY FIRE ALARM PANELS. LOCATE THE PANEL OR CABINET WITH THE TOP OF THE PANEL 72" ABOVE THE FINISHED FLOOR OR CENTER THE PANEL AT 63", WHICHEVER IS LOWER. DO NOT LOCATE THESE PANELS ABOVE CEILINGS OR WHERE INACCESSIBLE BY A PERSON STANDING ON THE FINISHED FLOOR OF THE SPACE.
4. MOUNT STATIONS SO THAT THEIR OPERATING HANDLES ARE BETWEEN 42" AND 48" ABOVE THE FINISHED FLOOR. DO NOT USE BRICK OR BLOCK COURSES AS YOUR ONLY GUIDE. CUT BRICK OR BLOCK TO ACHIEVE PROPER HANDLE HEIGHT.
5. ALL WALL MOUNTED AUDIO/VISUAL DEVICES SHALL BE MOUNTED SO THE ENTIRE LENS IS BETWEEN 80" AND 96" ABOVE THE FINISHED FLOOR. WHERE LOW CEILING HEIGHTS DO NOT PERMIT MOUNTING AT A MINIMUM OF 80" AFF, VISIBLE APPLIANCES SHALL BE MOUNTED WITHIN 6" OF THE CEILING. DO NOT USE BRICK OR BLOCK COURSES AS YOUR ONLY GUIDE. CUT BRICK OR BLOCK TO ACHIEVE PROPER LENS HEIGHT.
6. WEATHER PROOF APPLIANCES INSTALLED OUTDOORS SHALL BE UL LISTED FOR OUTDOOR USE. MOUNT SO THE ENTIRE LENS IS BETWEEN 80" AND 96" ABOVE FINISHED FLOOR. FOR WEATHERPROOF APPLIANCES MOUNTED AT FIRE DEPARTMENT CONNECTION (FDC), COORDINATE WITH LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN FOR MOUNTING HEIGHT.
7. SMOKE AND HEAT DETECTOR HEADS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED. IF DETECTOR HEADS ARE INSTALLED PRIOR TO CONSTRUCTION CLEAN-UP, PROTECTIVE COVERS MUST BE IN PLACE TO PROTECT DETECTOR HEADS FROM PARTICULATE DAMAGE. DETECTORS LOCATED ON THE WALL SHALL HAVE THE TOP OF THE DETECTOR AT LEAST 4" AND NOT MORE THAN 12" BELOW THE CEILING. INSTALL SMOKE DETECTORS NO CLOSER THAN 3 FEET FROM AIR HANDLING SUPPLY AIR DIFFUSERS OR RETURN AIR OPENINGS. LOCATE DETECTORS NO CLOSER THAN 12" FROM ANY PART OF A LIGHTING FIXTURE.
8. DUCT SMOKE DETECTOR HEADS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED. DETECTOR HEADS INSTALLED PRIOR TO CONSTRUCTION CLEAN-UP SHALL BE REPLACED. DUCT DETECTORS ARE TO BE PROVIDED BY THE FIRE ALARM CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.
9. ADDRESSABLE MODULES SHALL BE INSTALLED LESS THAN 3- FEET FROM THE DEVICE BEING CONTROLLED OR MONITORED. ORIENT THE DEVICE MOUNTING FOR BEST MAINTENANCE ACCESS. LABEL ALL ADDRESSABLE MODULES AS TO THEIR FUNCTION.



2 STANDARD MOUNTING HEIGHTS/INSTRUCTIONS
E6.1 NO SCALE

EMERGENCY RADIO SYSTEM

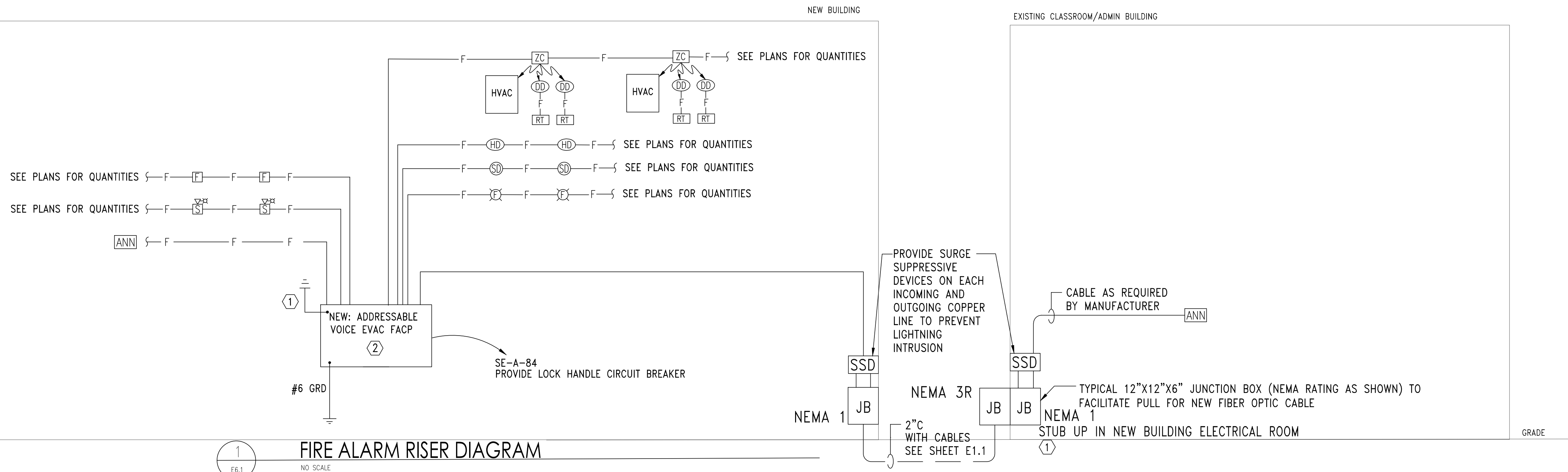
PROVIDE EMERGENCY RESPONDER RADIO SYSTEM TO MEET 2021 INTERNATIONAL FIRE CODE WITHIN THE BUILDING. SYSTEM SHALL MEET UL2524 AND COMPLY WITH IBC 2021 510.

BASE BID:

1. ELECTRICAL CONTRACTOR SHALL PROVIDE (1) SIGNAL STRENGTH TEST AT (5) LOCATIONS ON SITE WITHIN PROPOSED BUILDING FOOTPRINT. THE RESULTS SHALL BE SUBMITTED TO THE FIRE MARSHAL FOR ACCEPTANCE.
2. PROVIDE SHOP DRAWING FOR A DISTRIBUTION ANTENNA SYSTEM WITH AMPLIFIER TO COVER THE ENTIRE STRUCTURE TO MEET 510.4. SHOP DRAWINGS SHALL INCLUDE AMPLIFIER INFORMATION, ANTENNA LOCATIONS/COVERAGE, BATTERY DATA.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE EMPTY CONDUIT WITH NYLON PULL STRINGS AS REFLECTED ON DRAWINGS. CONDUIT SHALL BE INSTALLED AS BASE BID AND ARE NOT ALLOWED FOR USE WITH ANY OTHER SYSTEM. ALL EMERGENCY RESPONDER RADIO SYSTEM CONDUIT SHALL BE MARKED WITH 'BDA'.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE (1) SIGNAL STRENGTH TEST WITHIN THE BUILDING AT 80% COMPLETION OF CONSTRUCTION. THE RESULTS SHALL BE SUBMITTED TO THE FIRE MARSHAL FOR ACCEPTANCE. IF SIGNAL STRENGTH AT ANY PORTION OF THE BUILDING FALLS BELOW REQUIREMENTS OF IFC 510 AN EMERGENCY RESPONDER RADIO SYSTEM SHALL BE PROVIDED. SEE ALLOWANCE FOR ADDITIONAL INFORMATION.

ALLOWANCE:

1. IF THE TEST SIGNAL IS DEEMED NOT TO BE ACCEPTABLE THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE FOLLOWING BY ALLOWANCE: PROVIDE AMPLIFIER, ANTENNA AND ALL ADDITIONAL REQUIRED SYSTEM PARTS IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS (SEE ITEM 2 UNDER BASE BID ABOVE) AND IFC 2021 510.5. THIS INCLUDES OBTAINING PERMIT PER SECTION 510.3. THE SYSTEM SHALL BE RETESTED BY THE TESTING AGENCY PER 510.5.3 AND TEST RECORDS SHALL BE PROVIDED TO THE FIRE MARSHAL FOR ACCEPTANCE.



1 FIRE ALARM RISER DIAGRAM
E6.1 NO SCALE

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 ARCHITECTS, INC.
 631 SOUTH HULL STREET MONTGOMERY, ALABAMA 36104 (334) 834-9933



SHEET TITLE : FIRE ALARM RISER DIAGRAM, DETAILS, & NOTES

MCKEE JOB # : 23-251

DRAWN BY : J. TILLERY

DATE: 05.18.2024

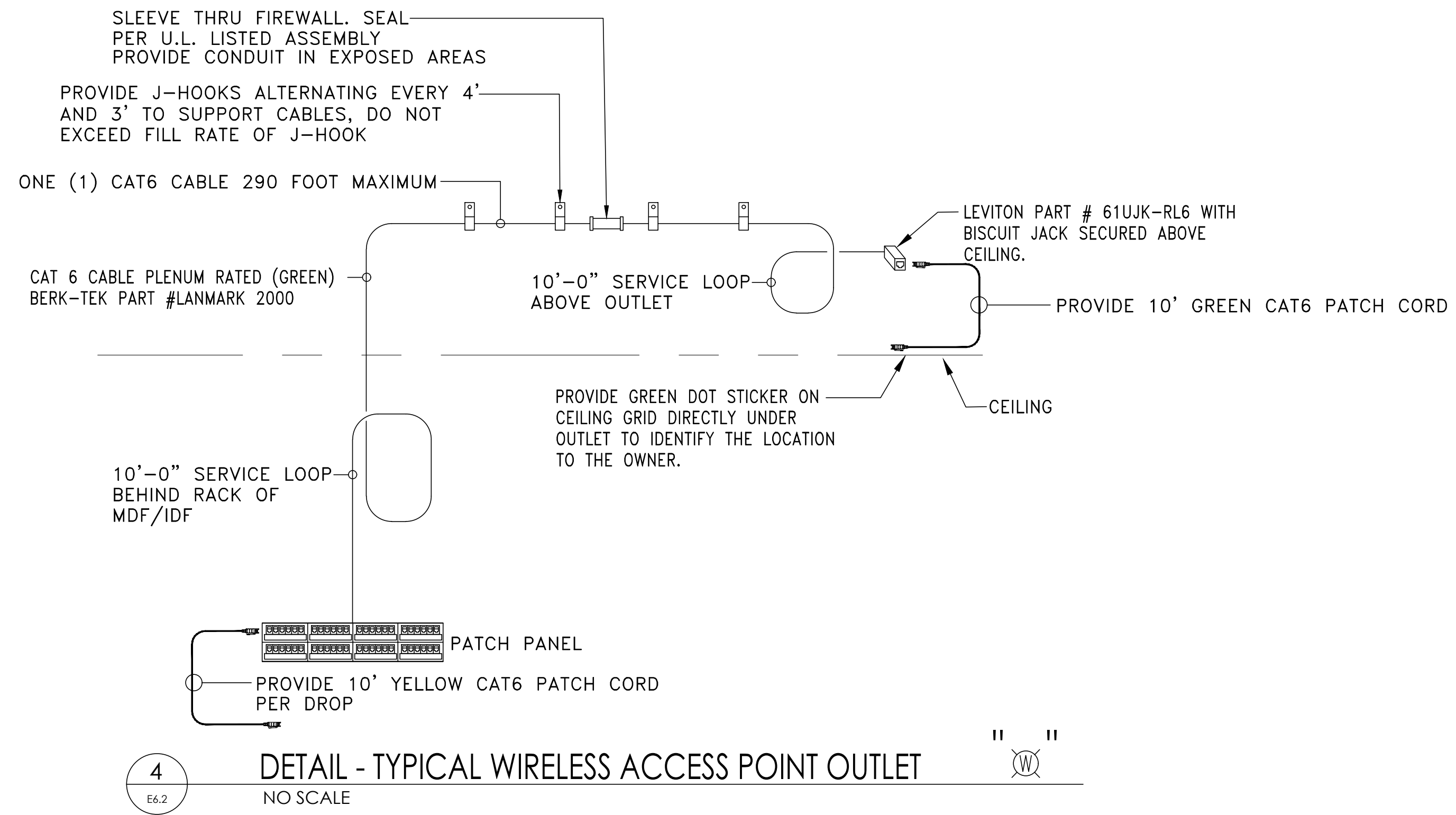
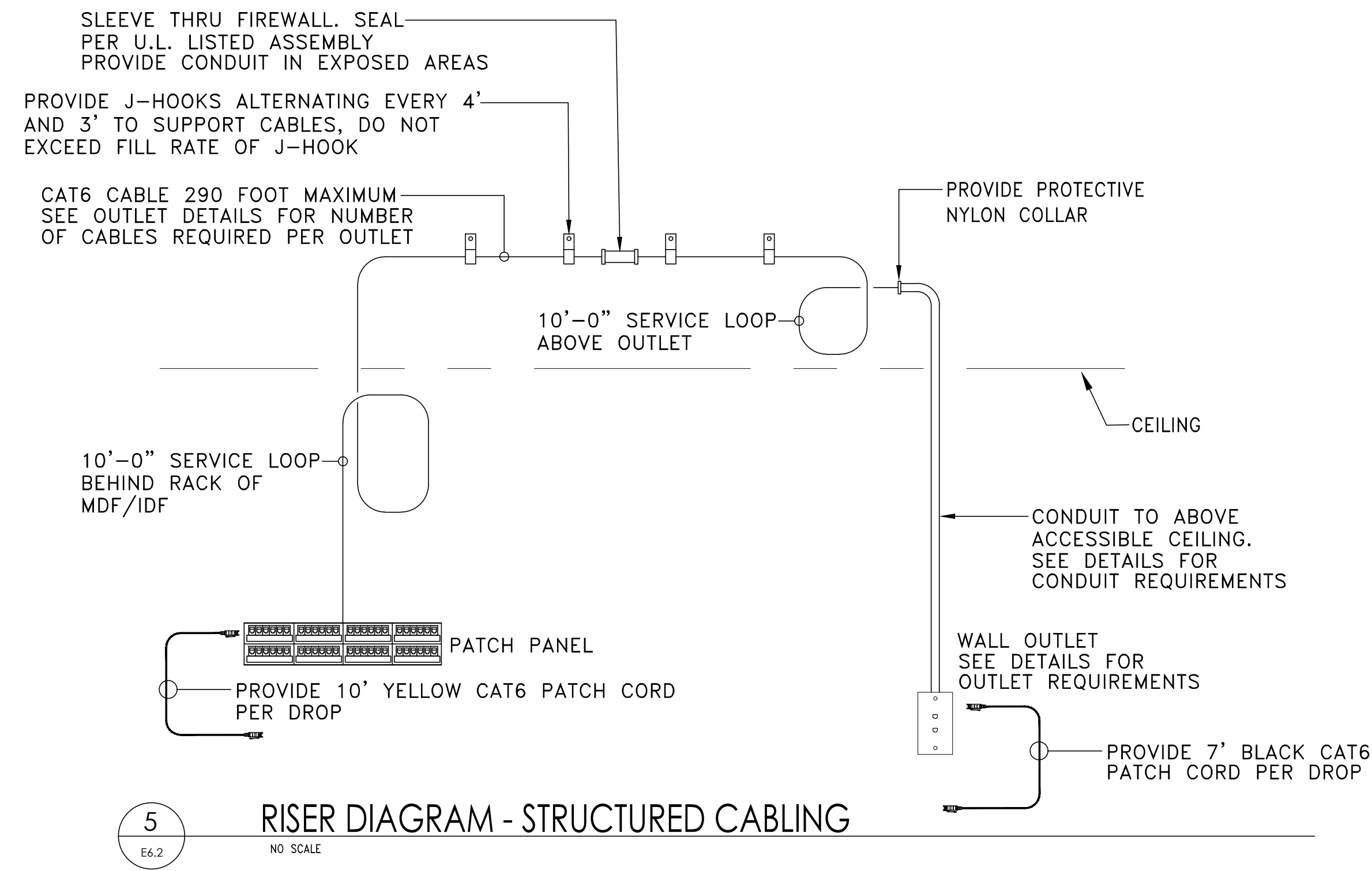
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 3102 Highway 14 Millbrook, AL 36054
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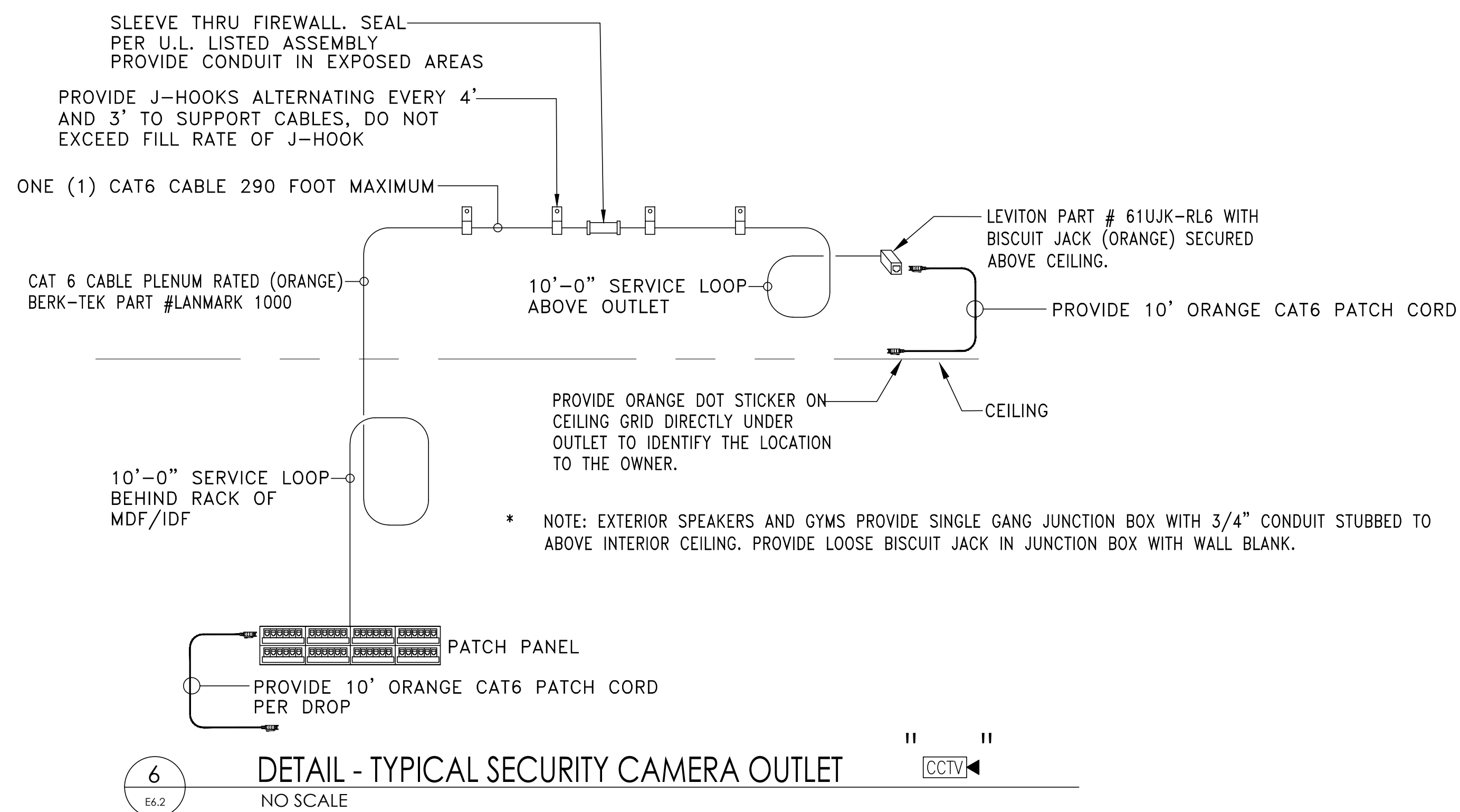
SHEET NO. : **E6.1**



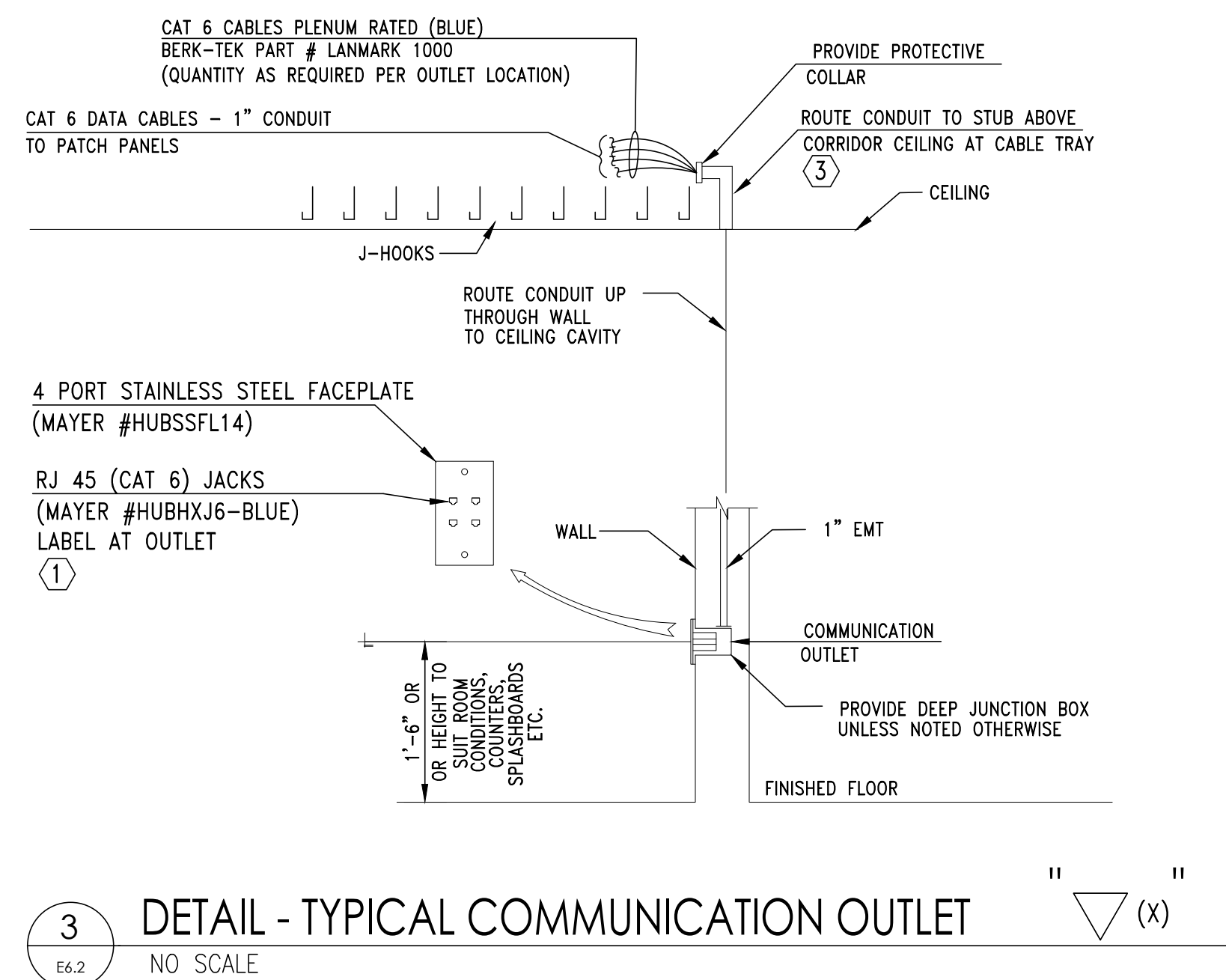
SHEET NOTES:

- ① THE (X) NUMBER IN PARENTHESIS INDICATES THE NUMBER OF DATA CAT 6 JACKS AND CABLES TO EACH COMMUNICATIONS OUTLET.
- ② SECURITY CAMERAS TO BE OWNER FURNISHED CONTRACTOR INSTALLED EQUIPMENT. PROVIDE CAT 6 CABLE FROM CAMERA TO NEW NVR TO BE MOUNTED IN THE IDF LOCATION. NVR TO BE OWNER PROVIDED CONTRACTOR INSTALLED.
- ③ WIRELESS ACCESS POINTS TO BE OWNER FURNISHED CONTRACTOR INSTALLED EQUIPMENT. PROVIDE CAT 6 CABLE FROM WIRELESS ACCESS POINTS TO PATCH PANELS IN THE IDF LOCATION.

* NOTE: EXTERIOR CAMERAS PROVIDE SINGLE GANG JUNCTION BOX WITH 3/4" CONDUIT STUBBED TO ABOVE INTERIOR CEILING. COORDINATE EXTERIOR CAMERA KEYSTONE LOCATION WITH OWNER PRIOR TO INSTALLATION



- * FLOOR BOX PROVIDE FOUR CAT 6 CABLES AND JACKS AS SHOWN ON THIS DETAIL.
- (X) * THE (X) NUMBER IN PARENTHESIS INDICATES THE NUMBER OF DATA CAT 6 JACKS AND CABLES TO EACH COMMUNICATIONS OUTLET.



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SHEET TITLE: COMMUNICATIONS RISER, DETAILS, & NOTES

MCKEE JOB #: 23-251

DRAWN BY: J. TILLERY

DATE: 05.18.2024

REVISED DATE:

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SHEET NO.: **E6.2**

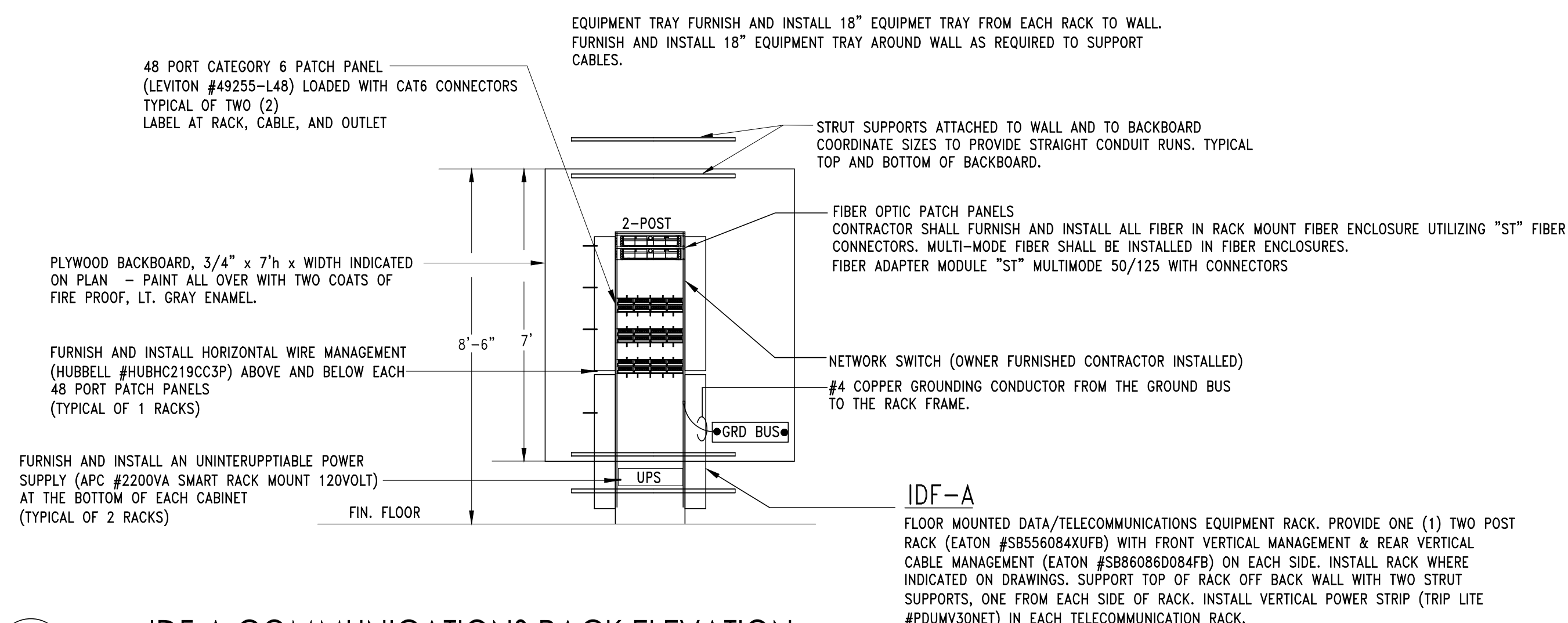
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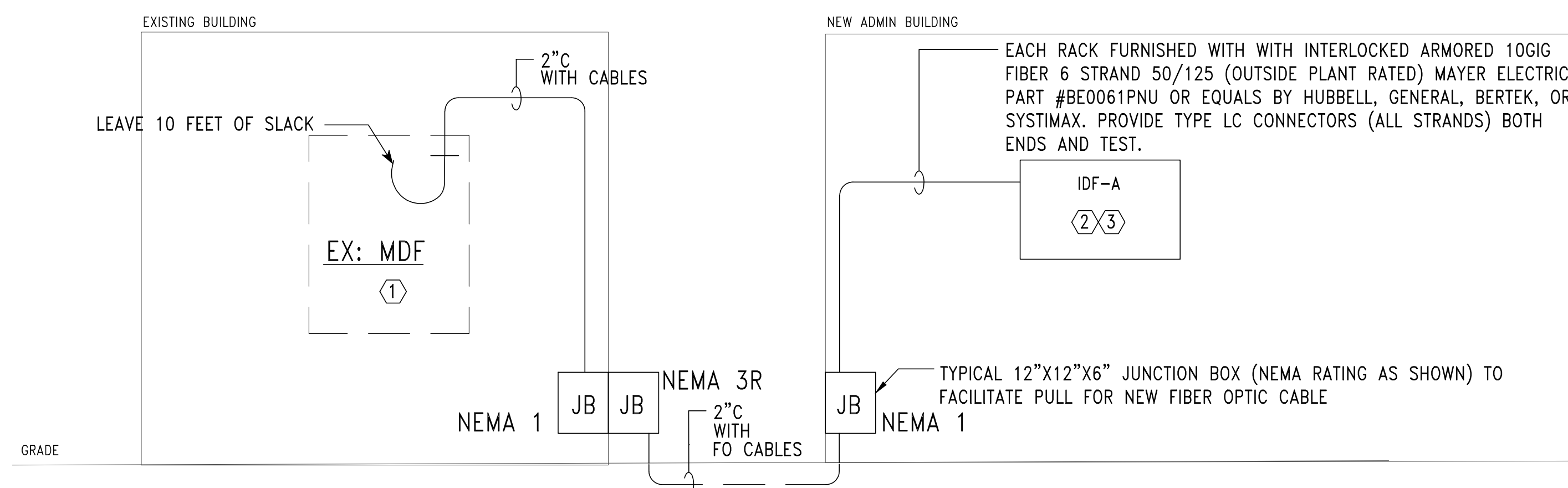
NOTE:
CONTRACTOR SHALL PROVIDE ONE (1) CAT 6 PATCH CORD IN MDF/IDF/CBB FOR EACH HORIZONTAL COPPER CABLE INSTALLED IN CONTRACT. PROVIDE 50% OF THE PATCH CORDS AS ONE FOOT AND PROVIDE THE OTHER 50% AS THREE FOOT.



2 IDF-A COMMUNICATIONS RACK ELEVATION
E6.3 NO SCALE

SHEET NOTES:

- ① PROVIDE FIBER PATCH PANEL AS NEEDED TO TERMINATE FIBER AT EXISTING RACK.
- ② SECURITY CAMERAS TO BE OWNER FURNISHED CONTRACTOR INSTALLED EQUIPMENT. PROVIDE CAT 6 CABLE FROM CAMERA TO NEW NVR TO BE MOUNTED IN THE IDF LOCATION. NVR TO BE OWNER PROVIDED CONTRACTOR INSTALLED.
- ③ WIRELESS ACCESS POINTS TO BE OWNER FURNISHED CONTRACTOR INSTALLED EQUIPMENT. PROVIDE CAT 6 CABLE FROM WIRELESS ACCESS POINTS TO PATCH PANELS IN THE IDF LOCATION.



1 COMMUNICATIONS BACKBONE CABLING RISER DIAGRAM
E6.3 NO SCALE

SHEET TITLE : COMMUNICATIONS RISER, DETAILS, & NOTES

MCKEE JOB # : 23-251

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SHEET NO. : E6.3

POWER RISER DIAGRAM NOTES:

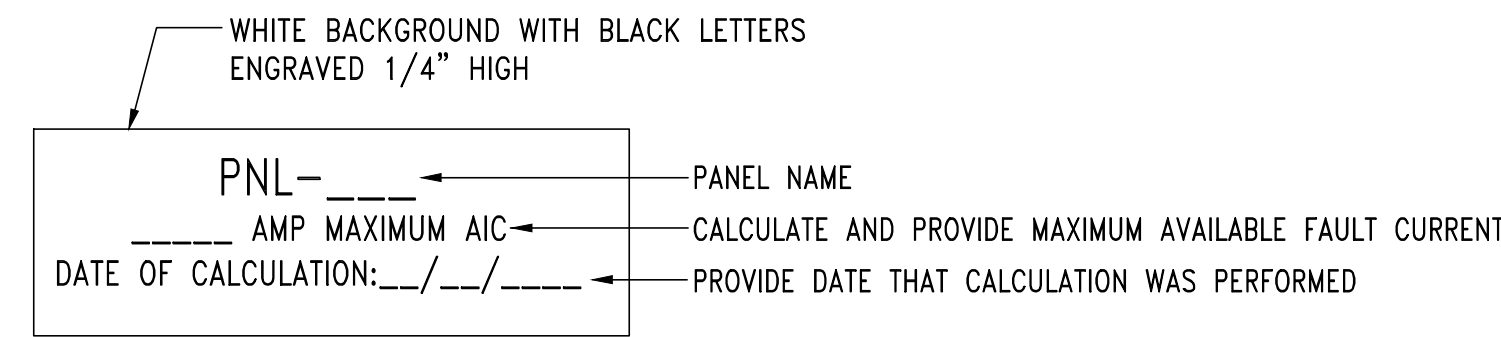
1. INSTALLATION AND CONNECTION OF ALL DEVICES SHALL BE IN ACCORDANCE WITH NEC, MANUFACTURER'S RECOMMENDATIONS, AND STATE AND LOCAL CODES.
2. CONTRACTOR IS RESPONSIBLE FOR THE CONNECTING, INSTALLATION, AND MARKING OF ALL POWER FEEDER CONDUCTORS FOR THE PROPER PHASE SEQUENCE AND LOADING. CONTRACTOR SHALL TEST EACH FEEDER AND EQUIPMENT FEEDERS WITH A PHASE METER PRIOR TO CONNECTING LOADS.
3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND VERIFYING WITH ALL DIVISIONS THE ACTUAL NAMEPLATE DATA OF ALL EQUIPMENT AND DEVICES SUPPLIED ON THIS PROJECT PRIOR TO BID. CONTRACTOR SHALL THEN PROVIDE THE PROPERLY SIZED OVERCURRENT DEVICES (CIRCUIT BREAKERS, CONDUCTORS, DISCONNECTS, FUSES, ETC.) TO PROPERLY PROTECT THE EQUIPMENT PER THE NEC. ENGINEER'S DESIGN BASED ON DATA GIVEN TO HIM BY DESIGNERS OF OTHER DIVISIONS, ACTUAL NAMEPLATE DATA COULD DIFFER.
4. SEAL ALL CONDUITS FROM THE EXTERIOR WITH A SEALING COMPOUND, ONCE ALL CABLING HAS BEEN INSTALLED.
5. COORDINATE WITH GROUNDING DETAILS ON SHEET E7.1 FOR ALL THE DIFFERENT TYPE GROUNDING REQUIREMENTS.
6. ALL UNDERGROUND SECONDARY FEEDERS SHALL BE A MINIMUM OF 36" BELOW GRADE TO THE TOP OF THE DUCT BANK.
7. ALL UNDERGROUND PRIMARY FEEDERS SHALL BE A MINIMUM OF 48" BELOW GRADE TO THE TOP OF THE CONDUIT.
8. CONTRACTOR SHALL PROVIDE A FULL SIZE COPY OF THE AS-BUILT POWER RISER DIAGRAM FRAMED BEHIND PLEXIGLASS SCREWED TO THE WALL NEAR MAIN SERVICE PANEL.

SHEET NOTES:

1. CONNECT TO EXISTING TRANSFORMER. NEW BAND BUILDING TO BE METERED WITH OTHER BUILDINGS BEING FEED BY TRANSFORMER.

NOTES:

1. CONTRACTOR SHALL CALCULATE AND PROVIDE NAMEPLATE ON THE SERVICE ENTRANCE EQUIPMENT THAT INDICATES THE MAXIMUM AVAILABLE FAULT CURRENT AND THE DATE THE CALCULATION WAS PERFORMED. SEE NAMEPLATE REQUIREMENTS BELOW.

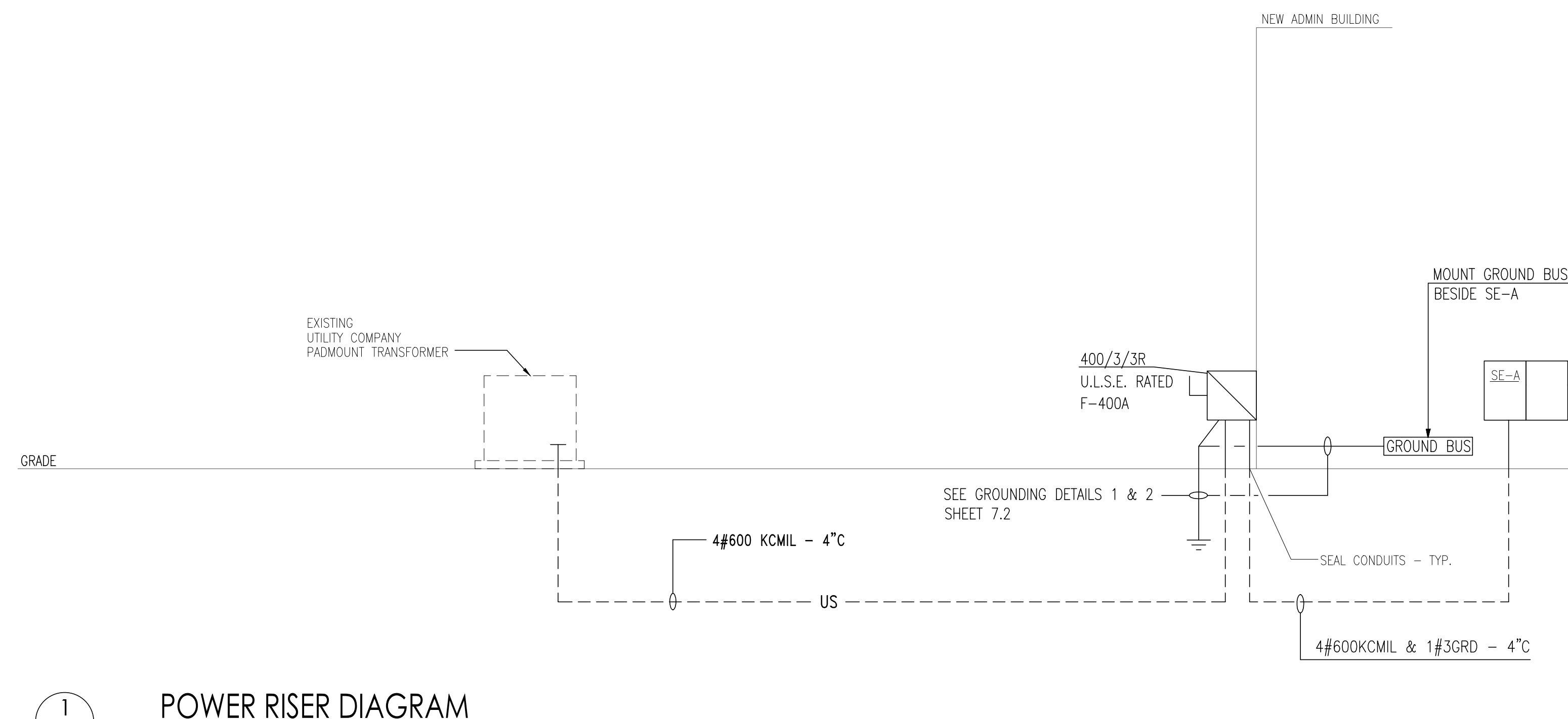


TYPICAL SERVICE ENTRANCE FAULT CURRENT NAMEPLATE

2
E7.1

DETAIL - SERVICE ENTRANCE FAULT CURRENT NAMEPLATE

NO SCALE



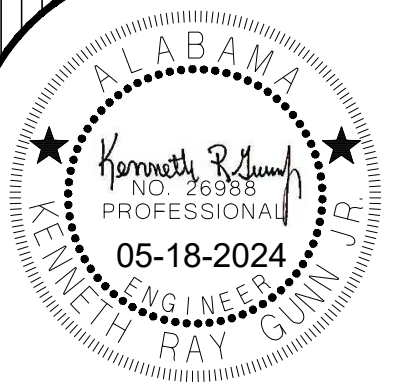
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E7.1

POWER RISER DIAGRAM

NO SCALE

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SHEET TITLE : POWER RISER DIAGRAM, DETAILS, & NOTES

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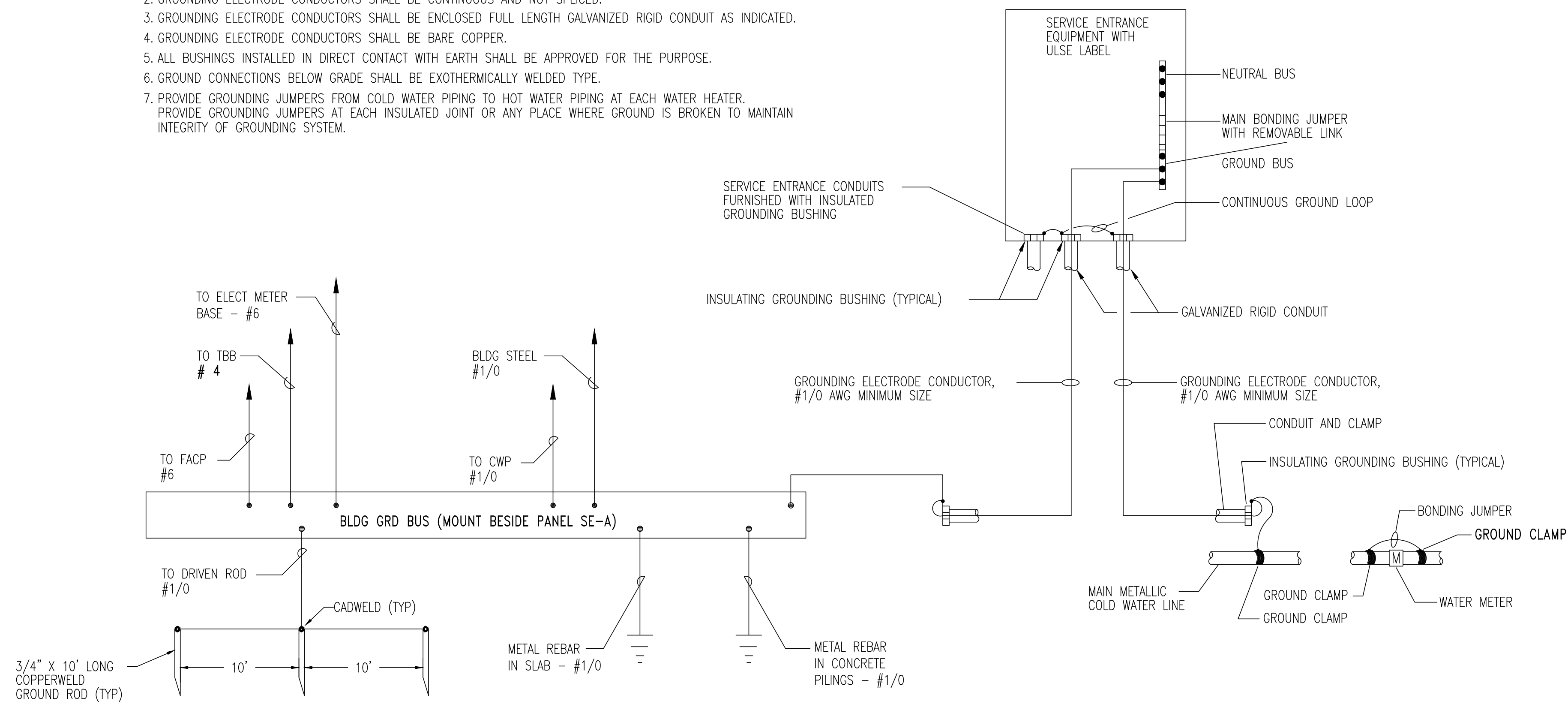
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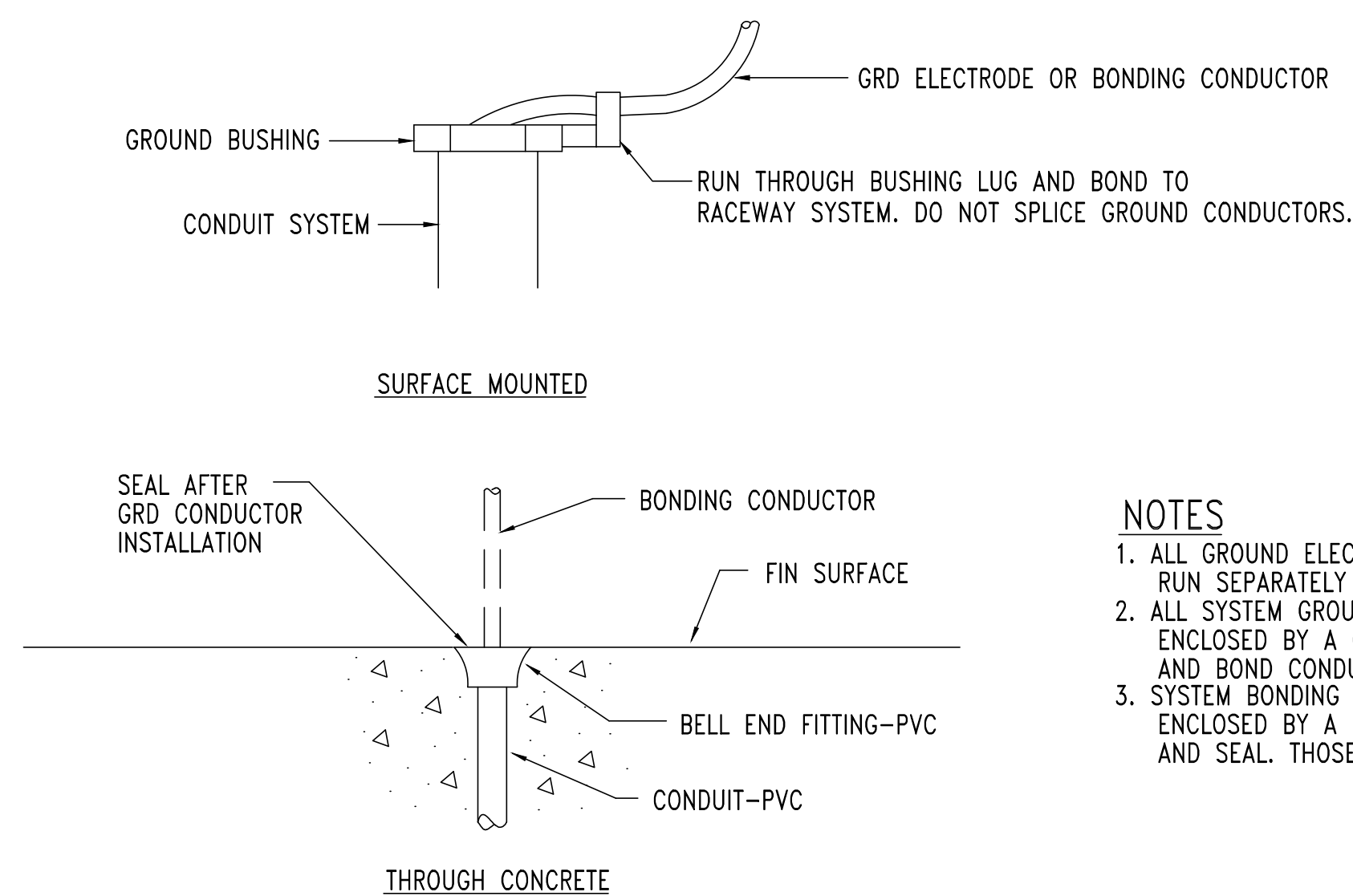
SHEET NO. : **E7.1**

NOTES

1. GROUNDING ELECTRODE SYSTEM SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250
2. GROUNDING ELECTRODE CONDUCTORS SHALL BE CONTINUOUS AND NOT SPLICED.
3. GROUNDING ELECTRODE CONDUCTORS SHALL BE ENCLOSED FULL LENGTH GALVANIZED RIGID CONDUIT AS INDICATED.
4. GROUNDING ELECTRODE CONDUCTORS SHALL BE BARE COPPER.
5. ALL BUSHINGS INSTALLED IN DIRECT CONTACT WITH EARTH SHALL BE APPROVED FOR THE PURPOSE.
6. GROUND CONNECTIONS BELOW GRADE SHALL BE EXOTHERMICALLY WELDED TYPE.
7. PROVIDE GROUNDING JUMPERS FROM COLD WATER PIPING TO HOT WATER PIPING AT EACH WATER HEATER. PROVIDE GROUNDING JUMPERS AT EACH INSULATED JOINT OR ANY PLACE WHERE GROUND IS BROKEN TO MAINTAIN INTEGRITY OF GROUNDING SYSTEM.



2 DETAIL - SERVICE ENTRANCE GROUNDING INSTALLATION
NO SCALE



NOTES

1. ALL GROUND ELECTRODE CONDUCTORS, SYSTEM BONDING CONDUCTORS, ETC., RUN SEPARATELY SHALL BE PROTECTED BY A CONDUIT SYSTEM.
2. ALL SYSTEM GROUNDING OR BONDING CONDUCTORS SHALL GENERALLY BE ENCLOSED BY A GRC CONDUIT. PROVIDE GROUND BUSHINGS ON EACH END AND BOND CONDUCTORS TO RACEWAY SYSTEM.
3. SYSTEM BONDING CONDUCTORS THAT PENETRATE CONCRETE SLABS SHALL BE ENCLOSED BY A PVC CONDUIT. PROVIDE BELL END FITTING ON EACH END AND SEAL. THOSE TERMINATING AT A STUB-UP SHALL BE FLUSH WITH FLOOR.

1 DETAIL - TYPICAL GROUND CONDUCTOR IN CONDUIT SYSTEM
NO SCALE

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SHEET TITLE : GROUNDING DETAILS & NOTES

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SHEET NO. : **E7.2**

GROUNDING AND BONDING INSTALLATION NOTES

1. ALL GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH THE NEC, NESC, IEEE, ANSI AND UL STANDARDS.
2. ALL DIMENSIONING INDICATED IN THESE DOCUMENTS ARE FOR REFERENCE AND COORDINATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS IN THE FIELD.
3. THE PURPOSE OF THE GROUNDING AND BONDING SYSTEM IS TO ESTABLISH ALL EQUIPMENT ENCLOSURES, NON-CURRENT CARRYING METALLIC PORTIONS OF THE ELECTRICAL DISTRIBUTION SYSTEM, METAL PIPING, METAL BUILDING FRAME, ETC., AT A ZERO POTENTIAL RELATIVE TO THE EARTH GROUND AND PROVIDE FOR A SAFE, LOW IMPEDANCE RETURN PATH FOR GROUND-FAULT CURRENT. THIS SHALL BE ACCOMPLISHED IN THE FOLLOWING MANNER:
 - a. PROVIDE A SOLIDLY GROUNDED SECONDARY SYSTEM.
 - b. INTER-CONNECT ALL GROUND BUSES AND POINTS IN THE SYSTEM WITH A COPPER GRD CONDUCTOR (BUS) SYSTEM.
 - c. ALL METALLIC RACEWAYS SHALL BE UL APPROVED AND MADE-UP TIGHT AT ALL COUPLINGS AND TERMINATIONS.
 - d. ALL GROUND CONDUCTORS IN CIRCUITS SHALL BE CONTAINED WITHIN THE SAME RACEWAY AS CURRENT CARRYING CONDUCTORS.
 - e. ALL SPLICES AND TERMINATIONS SHALL BE MADE TIGHT AND AS SUCH TO PROVIDE LOW IMPEDANCE AND SHALL HAVE THE SAME SHORT-TIME CURRENT-CARRYING CAPABILITY AS THE CONDUCTOR IT IS CONNECTED TO.
 - f. ALL GRD ELECTRODES OR BONDING CONDUCTORS INSTALLED ALONE WITHIN A RACEWAY SHALL UTILIZE GRC WITH GROUNDING BUSHINGS AT EACH END. THIS GROUND CONDUCTOR SHALL LOOP THROUGH THE BUSHING LUG PRIOR TO TERMINATION.

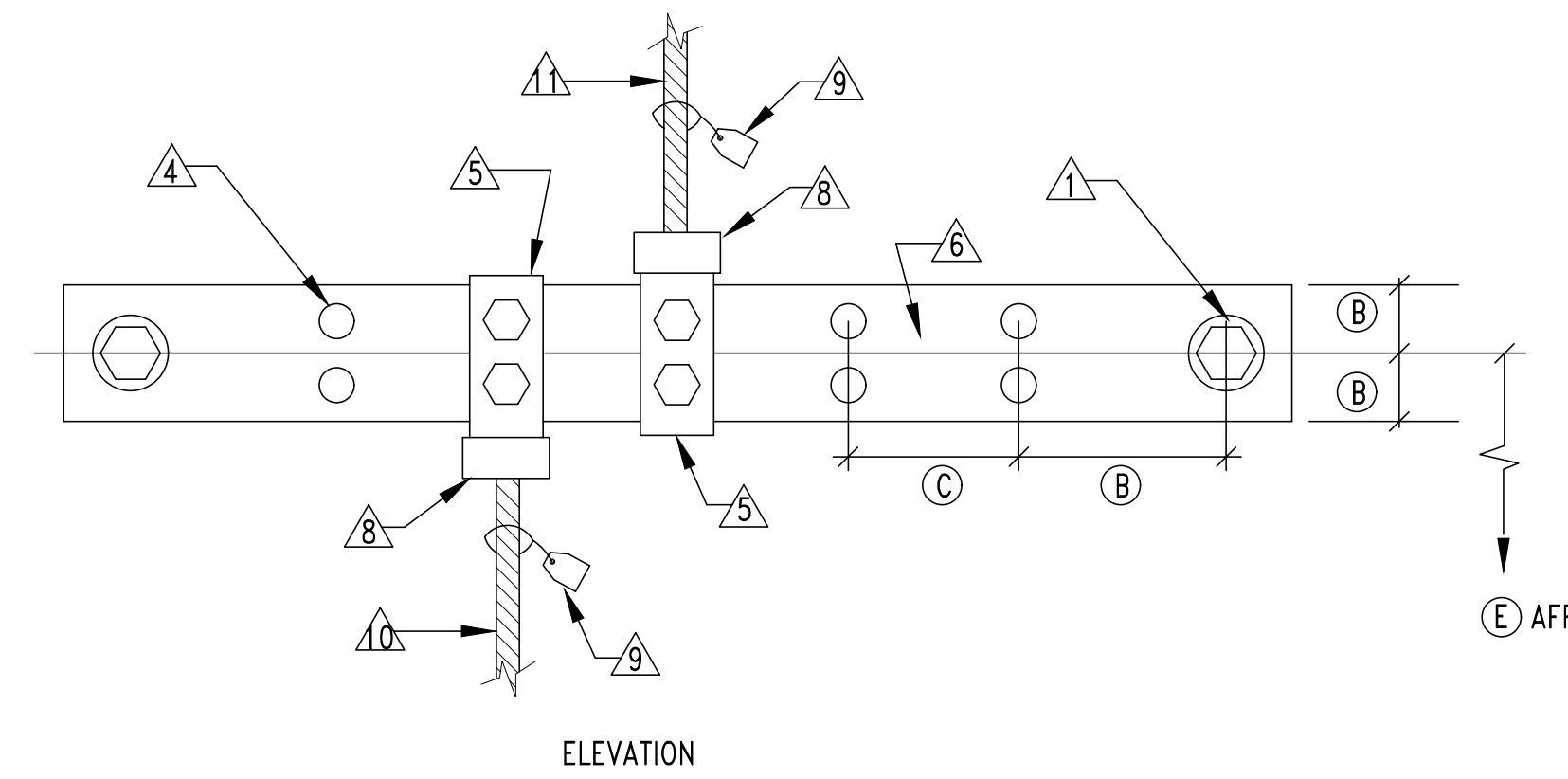
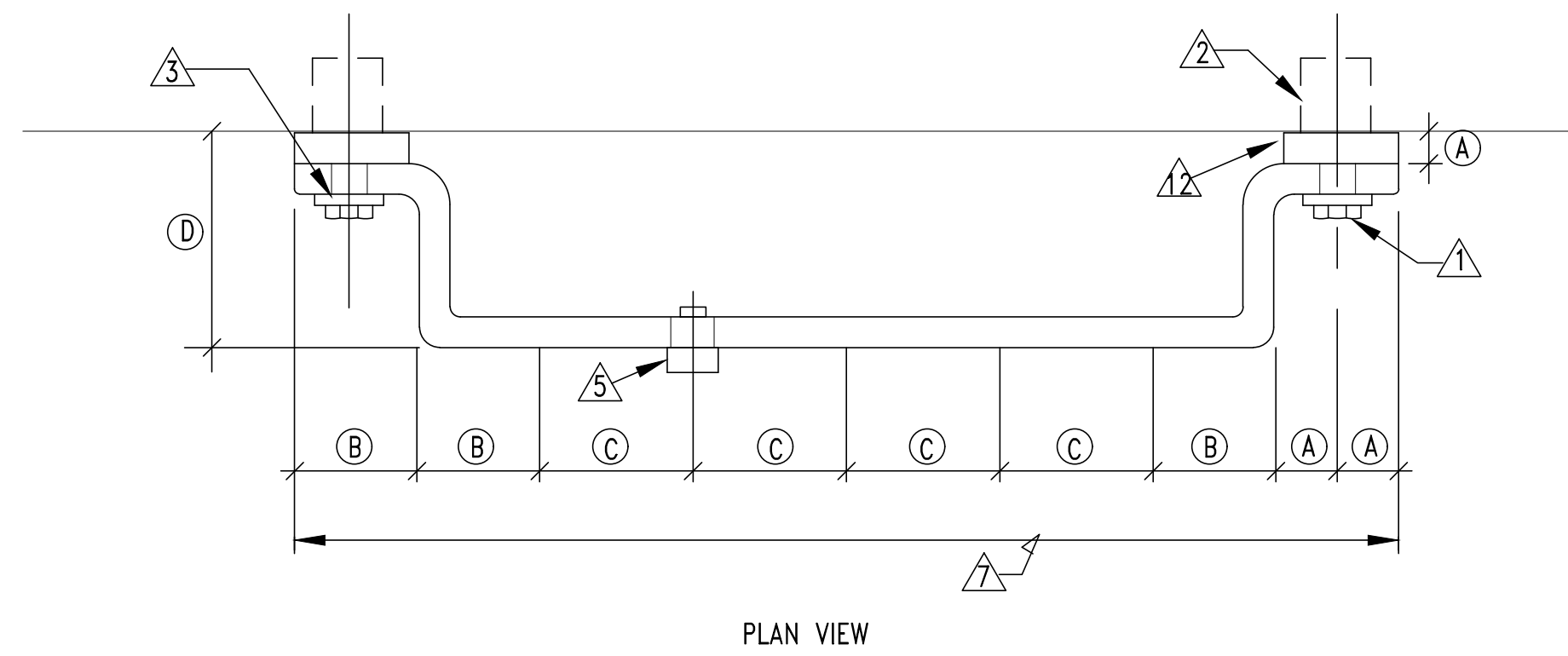
| DIMENSION BLOCK | | |
|-----------------|---------|--------|
| REF | ENGLISH | SI |
| A | 1" | 25.4mm |
| B | 2" | 50.8mm |
| C | 2 1/2" | 63.5mm |
| D | 3" | 76.2mm |
| E | 1'-6" | .4572m |

GROUND BUS NOTES

1. GROUND BUS INSTALLATION SHALL BE IN ACCORDANCE WITH THIS DETAIL AND AS INDICATED ON THE DRAWINGS.

KEYED NOTES

- ① 1/2" (12.7mm) X 1 1/2" (38.1mm) SILICON-BRONZE MACHINE BOLT & SILICON-BRONZE WASHER
- ② 1/2" (12.7mm) EXPANSION ANCHOR
- ③ 9/16"Ø (14.2875mm) HOLE IN BAR
- ④ DRILLED DOUBLE CONNECTOR HOLES
- ⑤ FLAT, TWO-HOLE CU CABLE CONNECTOR #6 TO #2 (DOUBLE LUGS) #1 TO #4/0 (SINGLE LUGS ONLY)
- ⑥ 4" (101.6mm) WIDE, 1/4" (6.35mm) DEEP COPPER BUS BAR.
- ⑦ LENGTH AS REQUIRED BY NUMBER OF CONDUCTOR CONNECTIONS OR AS SPECIFICALLY INDICATED. PROVIDE INTERMEDIATE WALL SUPPORTS AS REQUIRED.
- ⑧ TYP CU GRD CONDUCTOR CONNECTION
- ⑨ DESCRIPTION TAG, STATE SIZE OF CONDUCTOR AND TO WHAT IT IS CONNECTED TO.
- ⑩ TYP GRD CONNECTION FROM BELOW. SEE APPLICABLE DETAILS FOR SLAB PENETRATIONS.
- ⑪ TYP GRD CONNECTION FROM ABOVE. SEE APPLICABLE DETAILS FOR GRC INSTALLATIONS.
- ⑫ INSULATED NON-CONDUCTIVE SPACER

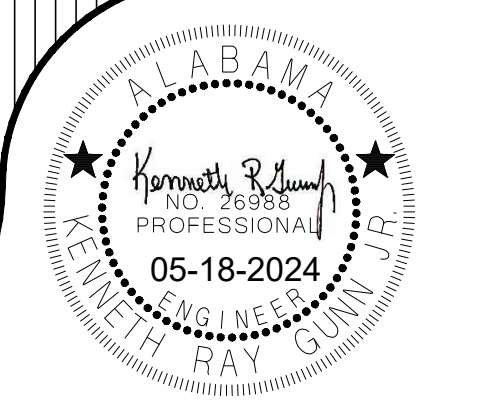


1
E7.3
NO SCALE

DETAIL - TYPICAL GROUND BUS INSTALLATION

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SHEET TITLE : GROUNDING DETAILS & NOTES

 MCKEE JOB # : 23-251

 DRAWN BY : J. TILLERY
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