

BUTLER BUILDING FOR SURPLUS

WALLACE DRIVE CAMPUS

1001 GEORGE WALLACE DRIVE, GADSDEN, ALABAMA 35903

GADSDEN STATE COMMUNITY COLLEGE

GADSDEN STATE COMMUNITY COLLEGE
DR. KATHY L. MURPHY PRESIDENT

OWNER ALABAMA COMMUNITY COLLEGE SYSTEM CIVIL
P.O. BOX 302130
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1001 GEORGE WALLACE DRIVE,
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BC NO.

ACC NO. 2022 159 GSCC

DRAWING INDEX (SET - 19 TOTAL SHEETS)

GENERAL

(2 SHEETS)

- T1 - TITLE AND INDEX
LS1 - LIFE SAFETY PLAN

CIVIL DRAWINGS

(3 SHEETS)

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EROSION CONTROL PLAN
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ARCHITECTURAL DRAWINGS

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A4 - WALL SECTIONS

STRUCTURAL DRAWINGS

(3 SHEETS)

- S1 - GENERAL NOTES
S2 - TYPICAL DETAILS
S3 - FOUNDATION PLAN AND SECTIONS

MECHANICAL DRAWINGS

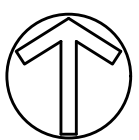
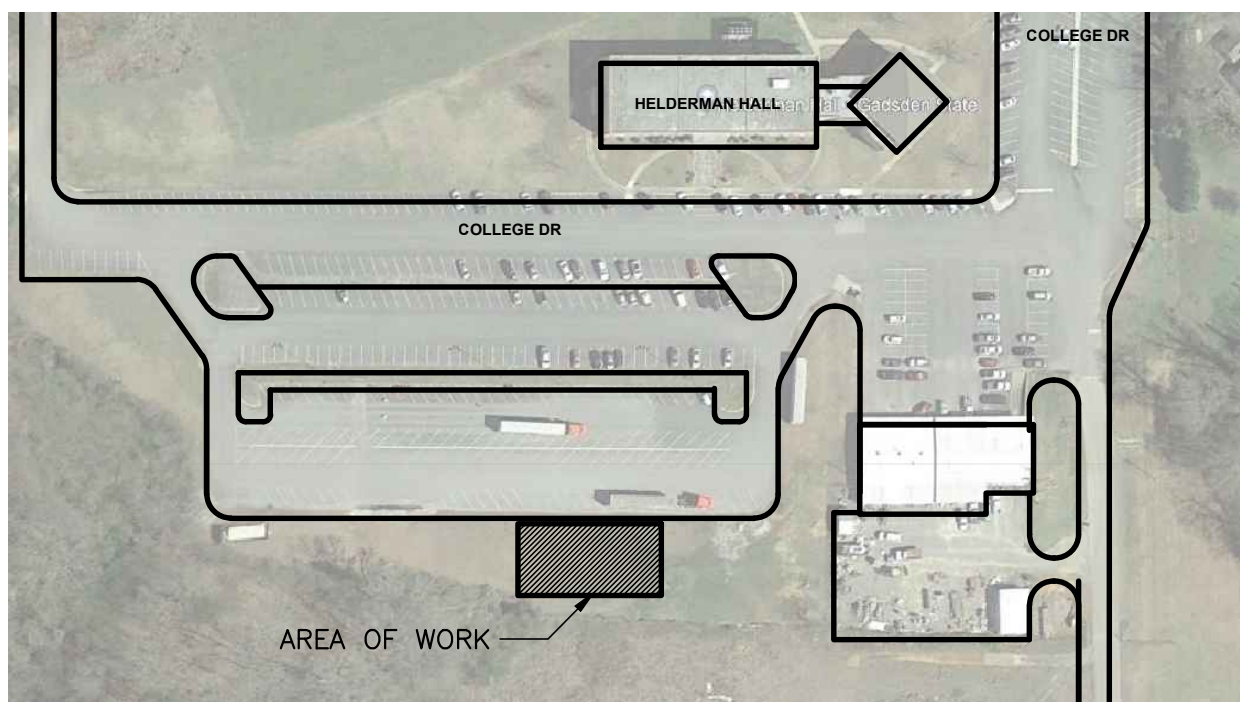
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- M1 - MECHANICAL LEGEND AND SCHEDULES
M2 - MECHANICAL DETAILS AND CONTROLS
M3 - MECHANICAL FLOOR PLAN

ELECTRICAL DRAWINGS

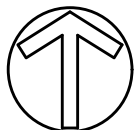
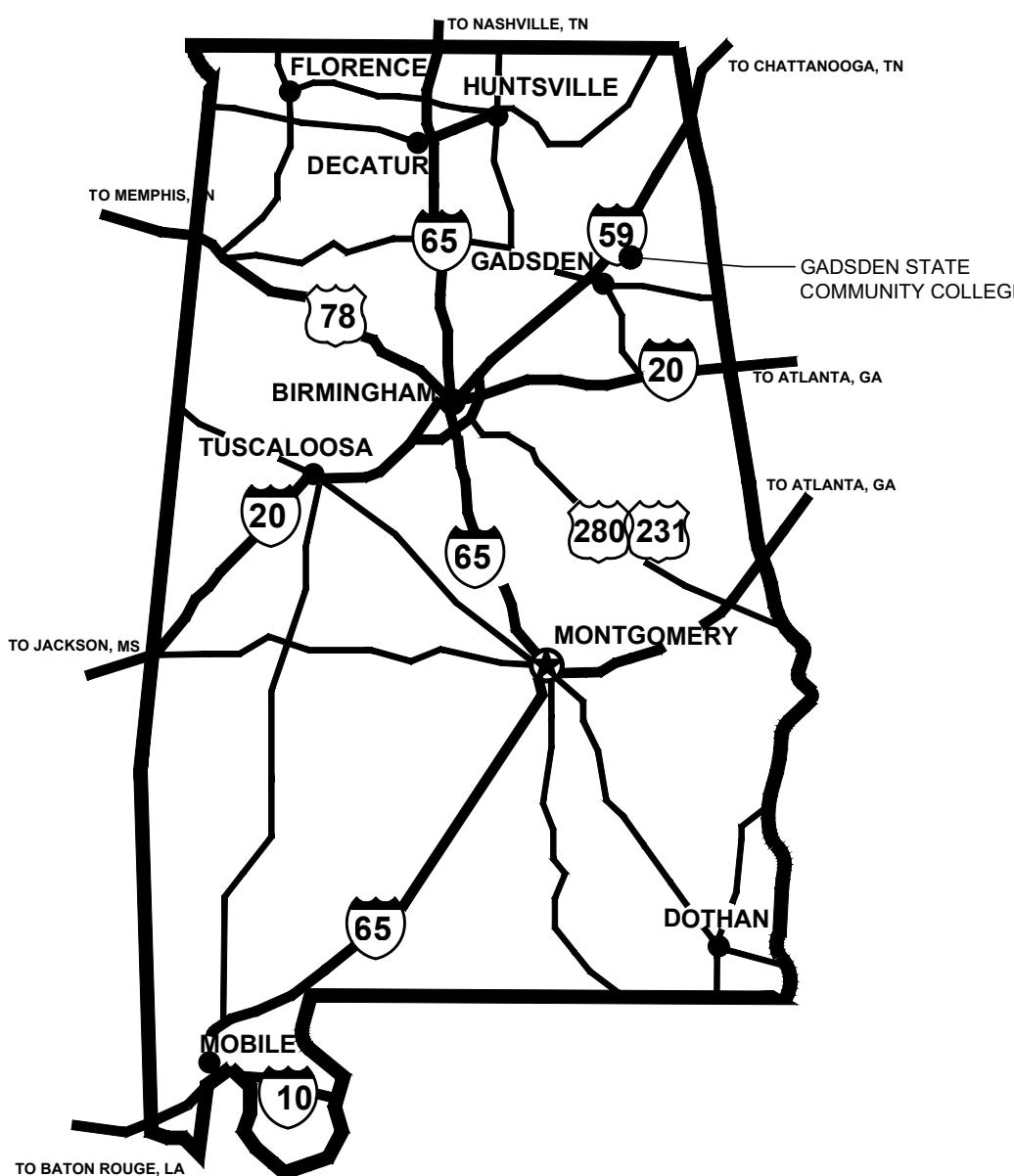
(4 SHEETS)

- E1 - ELECTRICAL LEGEND AND NOTES
E2 - ELECTRICAL SITE PLAN, RISER DIAGRAM
AND DETAILS
E3 - ELECTRICAL FLOOR PLAN
E4 - ELECTRICAL SPECIFICATIONS



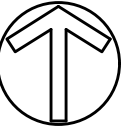
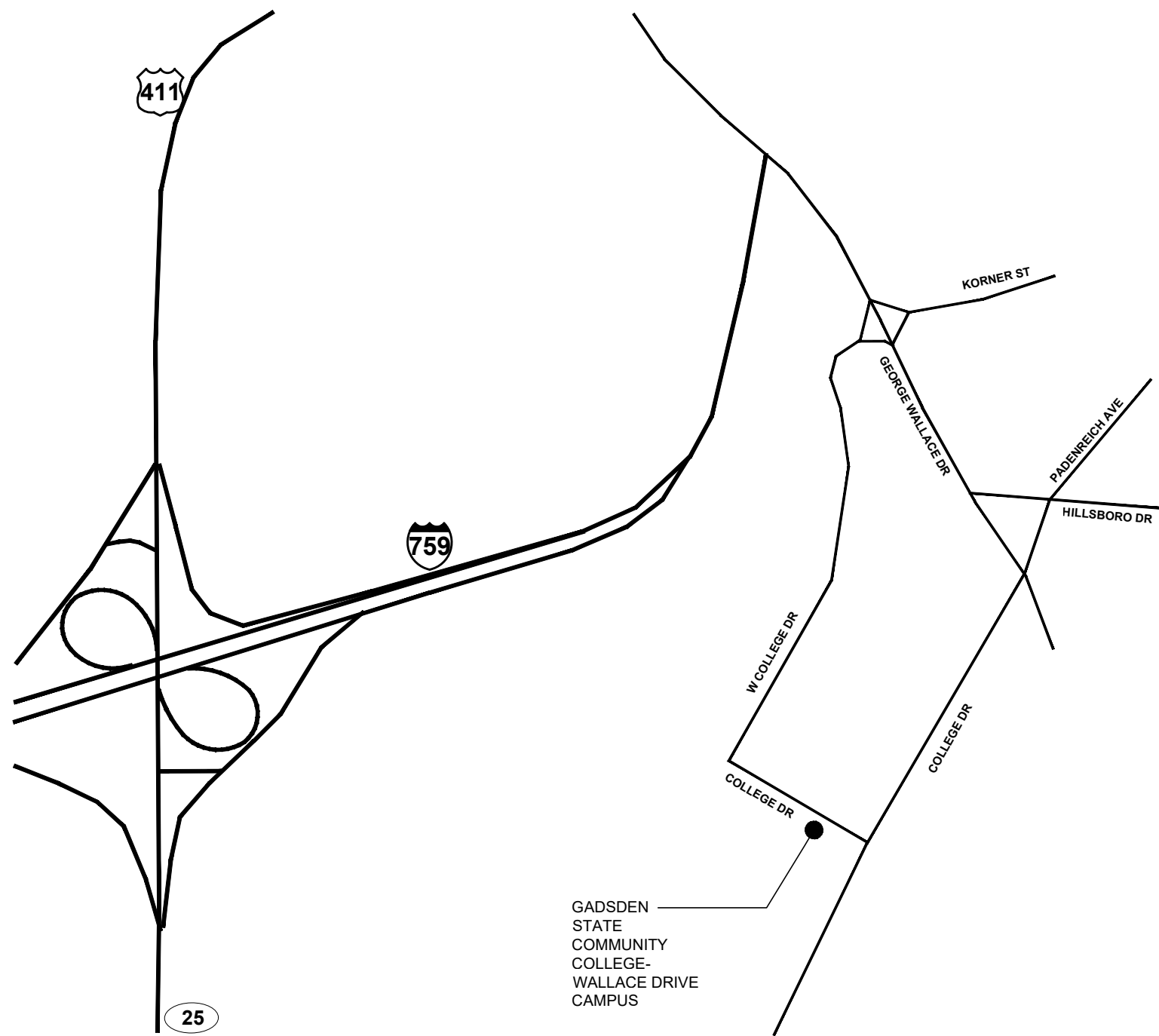
KEY PLAN

NTS



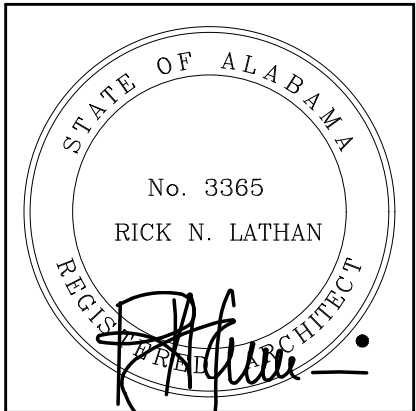
AREA MAP

STATE OF ALABAMA



VICINITY MAP

GADSDEN, ALABAMA



SHEET TITLE:
LIFE SAFETY PLAN

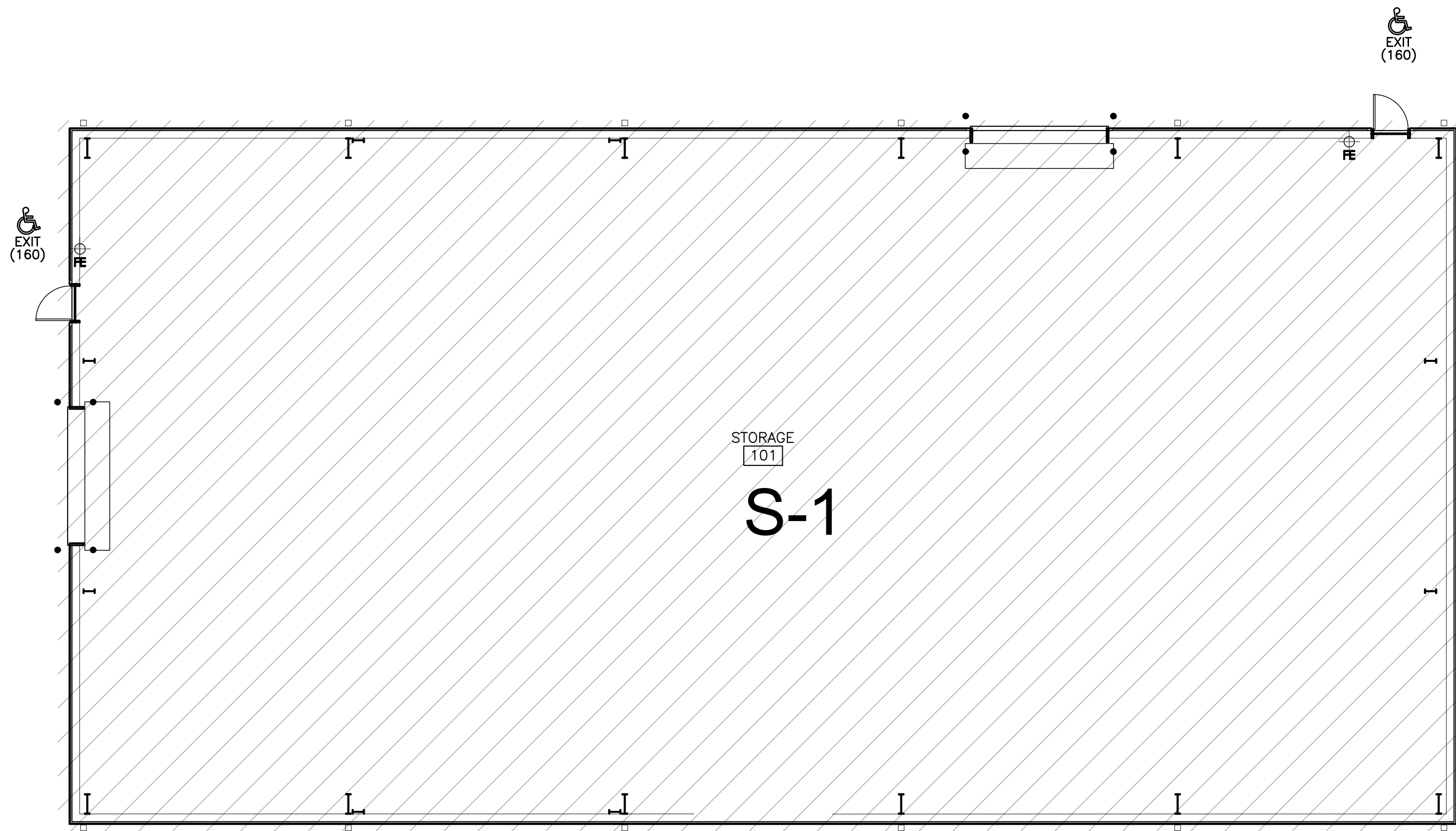
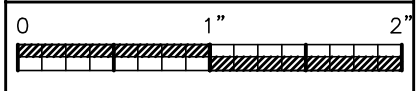
PROJ. MGR.: S. WILSON
DRAWN: C. BRYANT
DATE: MARCH 10, 2023

REVISIONS

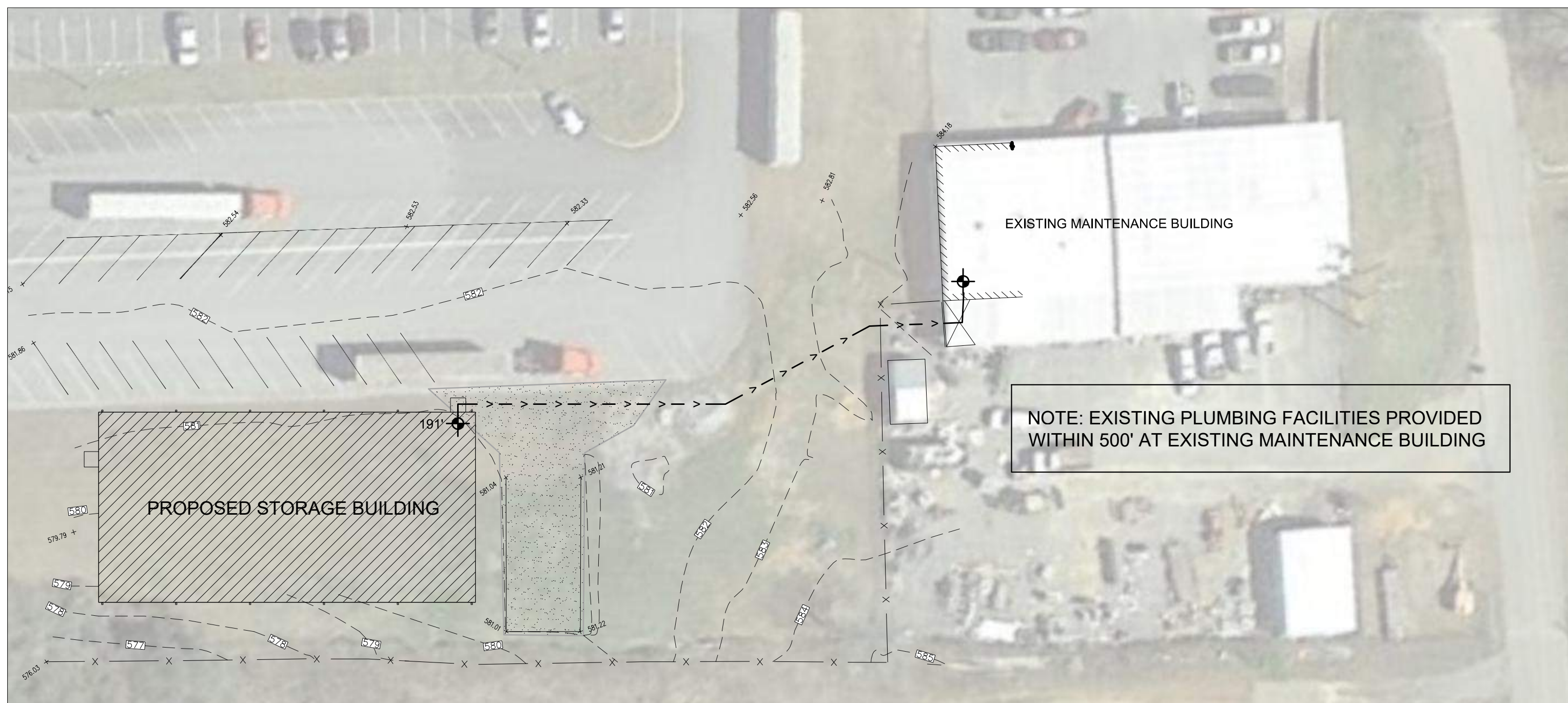
JOB NO. 22-143

SHEET NO:

LS1



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



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

2021 INTERNATIONAL BUILDING CODE RESEARCH			
OCCUPANCY CLASSIFICATION:		GROUP S-1	
TYPE OF CONSTRUCTION :		TYPE IIB (NON-SPRINKLERED)	
NEW BUILDING AREA:		7,545 S.F.	
TABLE 504.4 ALLOWABLE NUMBER OF STORIES:		ALLOWABLE:	2 STORIES
TABLE 506.2 ALLOWABLE AREA:		ALLOWABLE S.F.:	17,500 S.F.
SECTION 506.3.3 FRONTAGE INCREASE :		NOT REQUIRED	
TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:	CONSTRUCTION TYPE:	IIB (NS)	U.L. DESIGN
	STRUCTURAL FRAME:	0	
	COLUMNS	0	
	BEAMS	0	
	COLUMNS(roof only)	0	
	BEAMS (roof only)	0	
	ROOF	0	
OCCUPANCY USE LEGEND			
S-1			
LIFE SAFETY NOTES			
FIRE EXTINGUISHER		ACCESSIBLE EXIT EXIT CAPACITY	

CHAPTER 29 - PLUMBING SYSTEMS											
OCCUPANCY		WATERCLOSETS				LAVATORIES				DRINKING FOUNTAINS	SERVICE SINKS
USE	LOAD	RATIO	MALE	RATIO	FEMALE	RATIO	MALE	RATIO	FEMALE	RATIO	ALL
F1	67.94	1/100	.34	1/100	.34	1/100	.34	1/100	.34	1/400	.16
B	22.48	1/100	.12	1/100	.12	1/100	.12	1/100	.12	1/400	.06
REQUIRED TOTALS			.63		.63		.47		.47		.25
PROVIDED TOTALS			1		2		1		2		1

NOTE: EXISTING PLUMBING FACILITIES PROVIDED WITHIN 500' AT EXISTING MAINTENANCE BUILDING

GENERAL NOTES:

- LBVD, INC. SHALL NOT HAVE AUTHORITY OVER THE SITE OR BUILDING CONTRACTOR'S WORK OR RESPONSIBILITIES. LBVD IS NOT RESPONSIBLE FOR SITE SAFETY PROCEDURES OR METHODS OF CONSTRUCTION.
- ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND OTHER UTILITIES MAY EXIST. CONTRACTOR MUST HAVE EXISTING UTILITIES LOCATED BY UNDERGROUND LINE LOCATORS AS WELL AS FIELD VERIFIED BY ONSITE PERSONNEL PRIOR TO ORDERING MATERIALS OR BEGINNING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO LBVD IMMEDIATELY.
- EXISTING UTILITIES TO REMAIN MAY BE LOCATED WITHIN PROPOSED DEMOLITION AREAS. CONTRACTOR SHALL USE EXTREME CAUTION WHILE WORKING IN THESE AREAS TO ENSURE NO UTILITY SERVICE INTERRUPTIONS TO FACILITIES THAT REMAIN OR TO ADJACENT PROPERTIES.
- ALL EXISTING IMPROVEMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE REMOVED UNLESS SPECIFICALLY NOTED, "TO REMAIN".
- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ADJACENT PROPERTIES AND IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS ON OR OFF SITE DUE TO THE CONSTRUCTION OF THIS PROJECT. ANY DAMAGE WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL VERIFY SITE BOUNDARY AND EXISTING TOPOGRAPHY. NOTIFY LBVD OF ANY DISCREPANCIES PRIOR TO SUBMITTING PRICES OR ORDERING MATERIALS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL BENCHMARKS AND PROPERTY CORNERS. ANY REPLACEMENT WILL BE AT THE CONTRACTOR'S EXPENSE.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS REQUIRED TO CONSTRUCT THIS PROJECT AND PAY ALL PERMIT FEES. ALL PERMITS MUST BE IN-HAND PRIOR TO CONSTRUCTION.
- BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY THE OWNER AND PERFORMED BY ARRINGTON ENGINEERING & LAND SURVEYING CO., INC.
- TOPOGRAPHIC INFORMATION WAS PERFORMED VIA GROUND RUN FORMAT.

SITE DEMOLITION NOTES:

- CONTRACTOR SHALL COORDINATE WITH OWNER AND THE UTILITY PROVIDER PRIOR TO THE DISCONNECTING OR REMOVAL OF ANY UTILITY SERVICE TO THE EXISTING BUILDINGS. ALL UTILITIES TO BE REMOVED ARE TO BE CAPPED OR PLUGGED OR TERMINATED ACCORDING TO THE UTILITY OWNERS REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE WITH OWNER AND THE UTILITY PROVIDER PRIOR TO THE DISCONNECTING OF ANY UTILITY SERVICE TO THE EXISTING BUILDINGS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL, RELOCATION OR PROTECTION OF ALL ABOVE AND BELOW GROUND EXISTING IMPROVEMENTS THAT ARE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS UNLESS NOTED.
- ALL DEMOLITION AND CONSTRUCTION DEBRIS SHALL BE TRANSPORTED AND DISPOSED OF AT LEAST WEEKLY IN A LEGAL AND APPROVED MANNER.
- ALL EXISTING PAVING, CURBS, HARDSCAPE, ETC. SHALL BE SAW CUT AT THE LIMITS OF REMOVAL IN ORDER TO PROVIDE A CLEAN EDGE. EXISTING PAVING AT EDGE SHALL BE MILLED BACK A MINIMUM OF 8" TO ENSURE SMOOTH TRANSITION.

SITE LAYOUT NOTES:

- ALL HANDICAP RAMPS, SIGNS, SYMBOLS, AND PAINTED ISLANDS AND ACCESS ROUTES MUST CONFORM TO THE LATEST ADA REQUIREMENTS.
- THE MAXIMUM SLOPE IN HANDICAP PARKING AREAS SHALL NOT EXCEED 2.0% GRADE IN ANY DIRECTION. SLOPE IN THE DIRECTION OF TRAVEL IN ALL HANDICAP ACCESS ROUTES SHALL NOT EXCEED 5.0% GRADE AND 2.0% CROSS SLOPE.
- ALL DIMENSIONS AND COORDINATES SHOWN ARE TO THE OUTSIDE FACE OF BUILDING, TO THE BACK OF CURB, OR TO THE EDGE OF SURFACING UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL PLANS FOR SPECIFIC BUILDING INFORMATION.
- ALL STRIPING TO BE PER THE LATEST EDITION OF THE MUTCD UNLESS NOTED OTHERWISE.
- CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ELEVATIONS OF ALL AT-GRADE STRUCTURES AND UTILITIES TO REMAIN (VALVE BOXES, MANHOLES, INLETS, VAULTS, ETC) TO MATCH PROPOSED FINISHED GRADES.

GRADING NOTES:

- THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING COMPACTION TESTING.
- ALL TOPSOIL SHALL BE STRIPPED WITHIN THE PROPOSED LIMITS OF GRADING AND SHALL BE STOCKPILED ON-SITE IN AN APPROVED LOCATION FOR LATER USE WITH ANY EXCESS TO BE DISPOSED OF OFF-SITE ONCE ALL LANDSCAPED AREAS HAVE BEEN BROUGHT TO FINISH GRADE UNLESS OTHERWISE NOTED ON THE PLANS.
- SUBGRADE SHALL BE PROOF ROLLED WITH A HEAVILY LOADED DUMP TRUCK AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING FILL. ANY AREAS SHOWING SIGNS OF PUMPING, RUTTING, OR ANY UNSUITABLE (ORGANIC, SOFT, WET, LOOSE) MATERIAL FOUND IN PLACE SHALL BE UNDERCUT AND REPLACED, OR MOISTURE CONDITIONED AND COMPACTED TO THE SPECIFIED DENSITY AND MOISTURE CONTENT LISTED BELOW.
- ALL EXPOSED SUBGRADE SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 12" AND RECOMPACTED TO THE SPECIFIED DENSITY AND MOISTURE CONTENT LISTED BELOW.
- CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE SUBGRADE AFTER IT HAS BEEN INITIALLY PREPPED DUE TO INCLEMENT WEATHER AND CONSTRUCTION TRAFFIC.
- FILL MATERIAL SHALL HAVE THE FOLLOWING PROPERTIES: VIRTUALLY FREE OF ORGANICS, NO ROCK FRAGMENTS GREATER THAN 4" WITHIN 4" OF FINISH GRADE, LIQUID LIMIT NOT EXCEEDING 50, PLASTICITY INDEX NOT EXCEEDING 30, MINIMUM STANDARD PROCTOR (ASTM D-698) OF 100 PCF, COMPACTED 98% IN ALL AREAS, PLACED IN 8" LOOSE LIFTS, AND WITHIN ±2.0% OF OPTIMUM MOISTURE CONTENT.
- COMPACTION TESTS SHALL BE TAKEN AT THE RECOMMENDATION OF THE ON-SITE GEOTECHNICAL ENGINEER, BUT AT A MINIMUM EVERY 2,500 SQUARE FEET OF AREA PER 8" LIFT.
- COMPACTION WITHIN LIMITED SPACES (I.E. MANHOLES, INLETS, UTILITY TRENCHES) SHOULD BE BACKFILLED AND COMPACTED SYSTEMATICALLY, AT THE DIRECTION OF THE ON-SITE GEOTECHNICAL ENGINEER. STONE BACKFILL SHALL BE INSTALLED IN 12" LOOSE LIFTS AND COMPACTED WITH 6-8 PASSES OF A VIBRATORY COMPACTOR
- CLEARING LIMITS SHALL BE 5' OUTSIDE OF ALL PROPOSED GRADED AREAS OR NOT BEYOND THE PROPERTY LINES WHICHEVER IS LESS.
- NO GRADING OFF-SITE OR IN ANY ROAD RIGHT-OF-WAY WITHOUT PROPER APPROVALS AND PRIOR NOTIFICATION.
- COORDINATE THE SEQUENCING OF ALL GRADING OPERATIONS WITH THE EROSION CONTROL PLAN.
- THE MAXIMUM SLOPE IN HANDICAP PARKING AREAS SHALL NOT EXCEED 2.0% GRADE IN ANY DIRECTION. SLOPE IN THE DIRECTION OF TRAVEL IN ALL HANDICAP ACCESS ROUTES SHALL NOT EXCEED 5.0% GRADE AND 2.0% CROSS SLOPE.
- ALL GRADING ADJACENT TO EXISTING OR PROPOSED BUILDINGS SHALL BE SLOPED AWAY FROM THE STRUCTURES AT A MINIMUM OF 1.0% GRADE. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM THE STRUCTURES. NOTIFY LBVD OF ANY DISCREPANCIES.
- PROPOSED GRADES INDICATED ON THIS PLAN ARE TO FINISH GRADE. THE CONTRACTOR SHALL MAKE SUBGRADE ADJUSTMENTS FOR TOPSOIL, PAVING, BUILDING PAD, ETC.
- FILL SLOPES SHOULD BE BENCHED INTO THE EXISTING SLOPES AND SHOULD BE COORDINATED WITH THE ONSITE GEOTECHNICAL ENGINEER FOR BENCH DETAILS (HEIGHT AND DEPTH OF BENCH INTO THE SLOPE.)
- NO GEOTECHNICAL REPORT IS AVAILABLE FOR THIS PROJECT. THE CONTRACTOR SHALL VISIT THE SITE AND COMPLETE ANY EXPLORATIONS THAT IT FEELS NECESSARY IN ORDER TO PROVIDE A SATISFACTORY BID.
- DEWATERING SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. PREVENT SURFACE WATER AND GROUND WATER FROM ENTERING EXCAVATIONS, FROM PONDING ON PREPARED SUBGRADES, AND FROM FLOODING PROJECT SITE AND SURROUNDING AREA. PROTECT SUBGRADES FROM SOFTENING, UNDERMINING, WASHOUT, AND DAMAGE BY RAIN OR WATER ACCUMULATION. REROUTE SURFACE WATER RUNOFF AWAY FROM EXCAVATED AREAS. DO NOT ALLOW WATER TO ACCUMULATE IN EXCAVATIONS. DO NOT USE EXCAVATED TRENCHES AS TEMPORARY DRAINAGE DITCHES. INSTALL A DEWATERING SYSTEM TO KEEP SUBGRADES DRY AND CONVEY GROUND WATER AWAY FROM EXCAVATIONS. MAINTAIN UNTIL DEWATERING IS NO LONGER REQUIRED. IF GROUNDWATER DEWATERING IS REQUIRED, CONTRACTOR IS TO OBTAIN ANY PERMITS AS MAY BE REQUIRED PRIOR TO DISCHARGE OF EFFLUENT FROM DEWATERING.
- GRADING ADJACENT TO THE BUILDING SHALL BE COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR FOUNDATION WALLS, STEM WALLS, DRAINS, AND OTHER CONDITIONS. THE CONTRACTOR SHALL NOTIFY LBVD INC. OF ANY DISCREPANCIES.

STORM DRAINAGE NOTES:

- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL STORM PIPE MATERIALS TO LBVD PRIOR TO INSTALLATION AND/OR FABRICATION.
- ALL PROPOSED STORM INLETS (GRATES, CURB, YARD, AREA DRAINS) ARE TO BE LOCATED AT THE LOWPOINTS. GRADING SHALL BE TO DIRECT RUNOFF TO THESE INLETS. NOTIFY LBVD OF ANY DISCREPANCIES.
- STORM DRAINAGE SYSTEMS SHALL BE CONSTRUCTED FROM DOWNSTREAM TO UPSTREAM. VERIFY ALL PIPE SLOPES, INVERTS, AND POINTS OF CONNECTION PRIOR TO CONSTRUCTION. NOTIFY LBVD OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED STORM PIPE GRADES AND POINTS OF CONNECTION PRIOR TO INSTALLATION. LBVD SHALL BE NOTIFIED OF ANY DEVIATIONS PRIOR TO CONSTRUCTION.
- PROPOSED STORM PIPES 30" AND LESS SHALL BE BEDDED IN 4" OF CRUSHED AGGREGATE AND STORM PIPES 36" AND GREATER SHALL BE BEDDED IN A 6" OF CRUSHED AGGREGATE.
- ALL RIP RAP SHALL BE CLASS 2 PER THE ALABAMA DEPT. OF TRANSPORTATION (ALDOT) STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED.
- ALL STORM PIPES 15" AND LESS SHALL BE SMOOTH LINED HIGH DENSITY POLYETHYLENE (HDPE) OR SCHEDULE 40 POLYVINYL CHLORIDE (PVC) WITH WATER-TIGHT JOINTS UNLESS OTHERWISE NOTED, INSTALLED PER MANUFACTURERS RECOMMENDATIONS. ALL STORM PIPES 18" AND GREATER SHALL BE CLASS 3 REINFORCED CONCRETE PIPE (RCP) BELL AND SPIGOT INSTALLED WITH WATERTIGHT JOINTS UNLESS OTHERWISE NOTED.
- ALL SLOPE PAVED HEADWALLS SHALL BE PER ALDOT SPECIAL DRAWING #HW-614-SP.

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 ANY EROSION CONTROL PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MONITORING, INSPECTIONS, ETC. TO ENSURE THE OWNER THAT THE SITE IS AT ALL TIMES IN ACCORDANCE WITH PERMIT 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 HIS/HER 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 AND ARE DEPENDENT ON THE CONTRACTOR'S CONSTRUCTION PHASING OF THE PROJECT. 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. ADDITIONAL MEASURES MAY INCLUDE, AS MINIMUM, TEMPORARY SEDIMENT BASINS, CONSTRUCTION EXITS PAD, VEHICLE WASH RACKS, SILT FENCING, STRAW AND RIP RAP CHECK DAMS, DIVERSION DITCHES, ETC. THESE ADDITIONAL MEASURES SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
- EROSION CONTROL DEVICES SHALL INCLUDE, BUT NOT LIMITED, TO THE FOLLOWING DEVICES: SILT FENCING, BRUSH BERMS, 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 OR HYDRAULICALLY APPLIED BY ALDOT SPECIFICATION SECTION 659.
- ALL PREVIOUSLY GRADED AREAS SHALL RECEIVE 4 INCHES OF TOPSOIL AND PERMANENT GRASSING UNLESS OTHERWISE INDICATED.
- 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 3:1 SIDE SLOPES. GEOTEXTILE SHALL BE NORTH AMERICAN GREEN S150 OR APPROVED EQUAL UNLESS OTHERWISE NOTED ON PLANS. ALL GEOTEXTILES SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.

UTILITY NOTES:

- THE SITE CONTRACTOR IS RESPONSIBLE FOR COMPLETING ALL UTILITY SERVICES (WATER, SEWER, GAS, ELECTRICAL, TELEPHONE, CABLE TV) FROM THE POINT THE RESPECTIVE UTILITY COMPANY COMPLETES THEIR WORK TO THE POINT OF CONNECTION AT THE BUILDING.
- REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, ETC. PLANS FOR ALL PROPOSED UTILITY POINTS OF CONNECTION AT THE BUILDING. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- ALL UNDERGROUND ELECTRICAL, TELEPHONE, AND CABLE TV SHALL BE INSTALLED IN PVC CONDUIT OR CONCRETE ENCASED DUCT BANK WITH PULL WIRE MEETING THE LOCAL UTILITY COMPANY'S REQUIREMENTS. INFORMATION SHOWN ON CIVIL DRAWINGS FOR REFERENCE ONLY. REFER TO ELECTRICAL PLANS FOR SPECIFIC INFORMATION.
- UTILITY TRENCHES SHALL BE BACKFILLED WITH COMPACTED FILL PLACED IN 6 INCH LOOSE LIFTS. FILL SHALL BE COMPACTED TO 98% STANDARD PROCTOR AND OPTIMUM MOISTURE CONTENT WITHIN ±2.0%.
- WHEN INSTALLING UTILITIES IN EXISTING PAVED AREAS OR IN AREAS WHERE SOILS ARE CONSIDERED UNSUITABLE FOR BEDDING OR BACKFILLING, UTILITY TRENCHES SHALL BE BACKFILLED FULL DEPTH WITH CRUSHED AGGREGATE.
- WHERE UTILITIES ARE TO BE INSTALLED IN AREAS OF EXISTING PAVING, HARDSCAPE, SIDEWALKS, ETC. CONTRACTOR SHALL SAWCUT AND REMOVE EXISTING PAVING, HARDSCAPE, SIDEWALK ETC. AND REPLACE IN LIKE KIND AND RESTRIPE AS NECESSARY. BACKFILL TRENCH FULL DEPTH WITH STONE.
- CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ELEVATIONS OF ALL AT-GRADE STRUCTURES AND UTILITIES TO REMAIN (VALVE BOXES, MANHOLES, INLETS, VAULTS, ETC) TO MATCH PROPOSED FINISHED GRADES.



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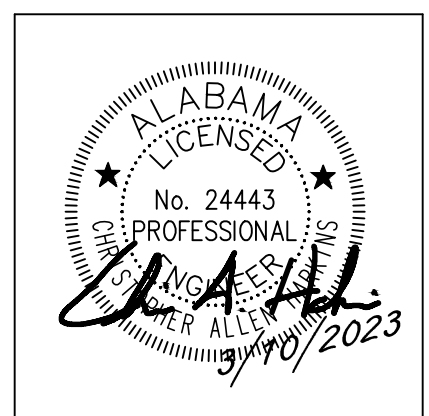
SHEET TITLE:
CIVIL NOTES

PROJ. MGR.: CAH
DRAWN: CAH
DATE: MARCH 10, 2023
REVISIONS

JOB NO. 22-143
SHEET NO:

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BUTLER BUILDING FOR SURPLUS
WALLACE DRIVE CAMPUS
GADSDEN STATE COMMUNITY COLLEGE
1001 GEORGE WALLACE DRIVE, GADSDEN, ALABAMA 35903



SHEET TITLE:
**SITE LAYOUT,
GRADING, DRAINAGE &
EROSION CONTROL
PLAN**

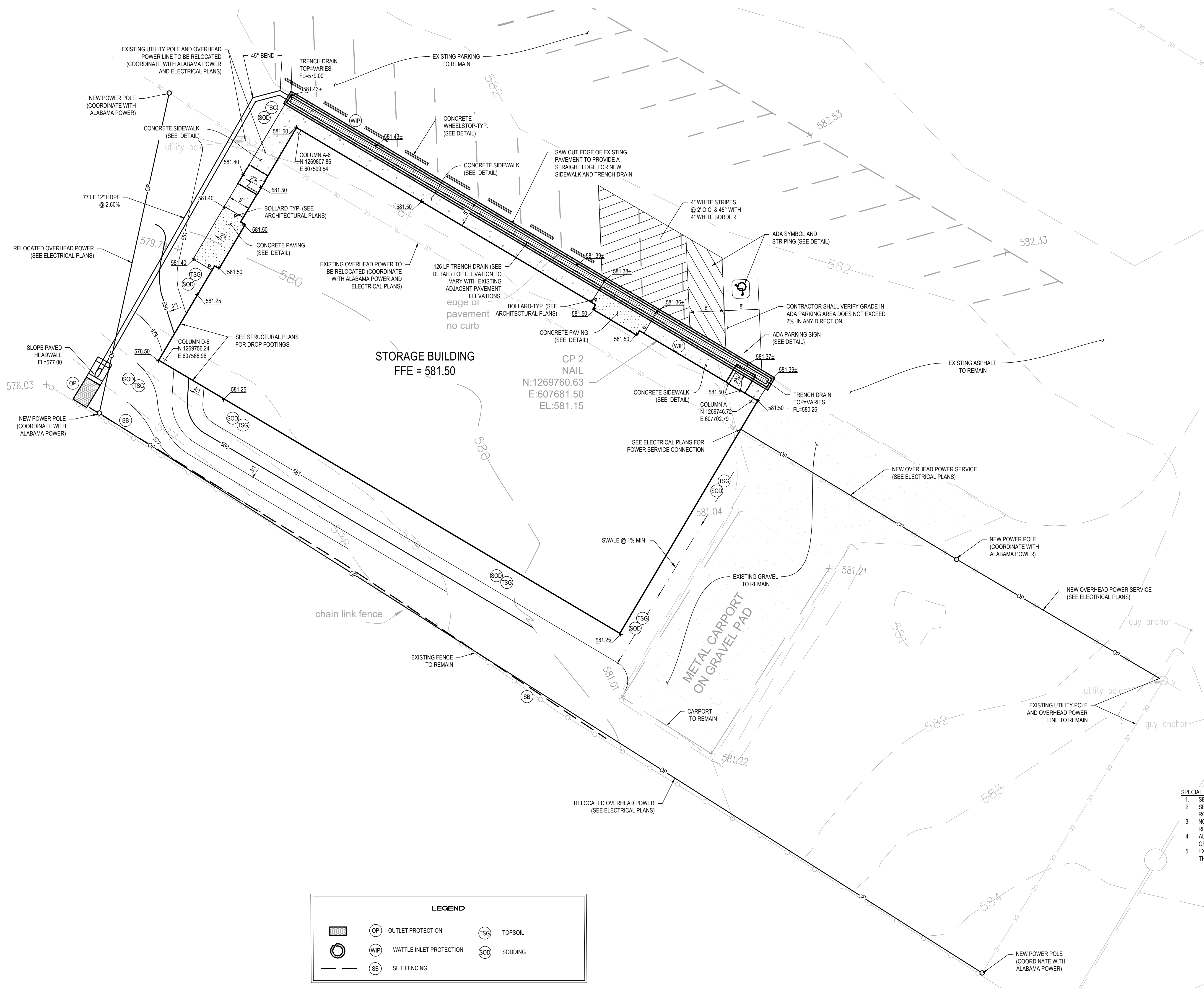
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DATE: MARCH 10, 2023
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JOB NO. **22-143**

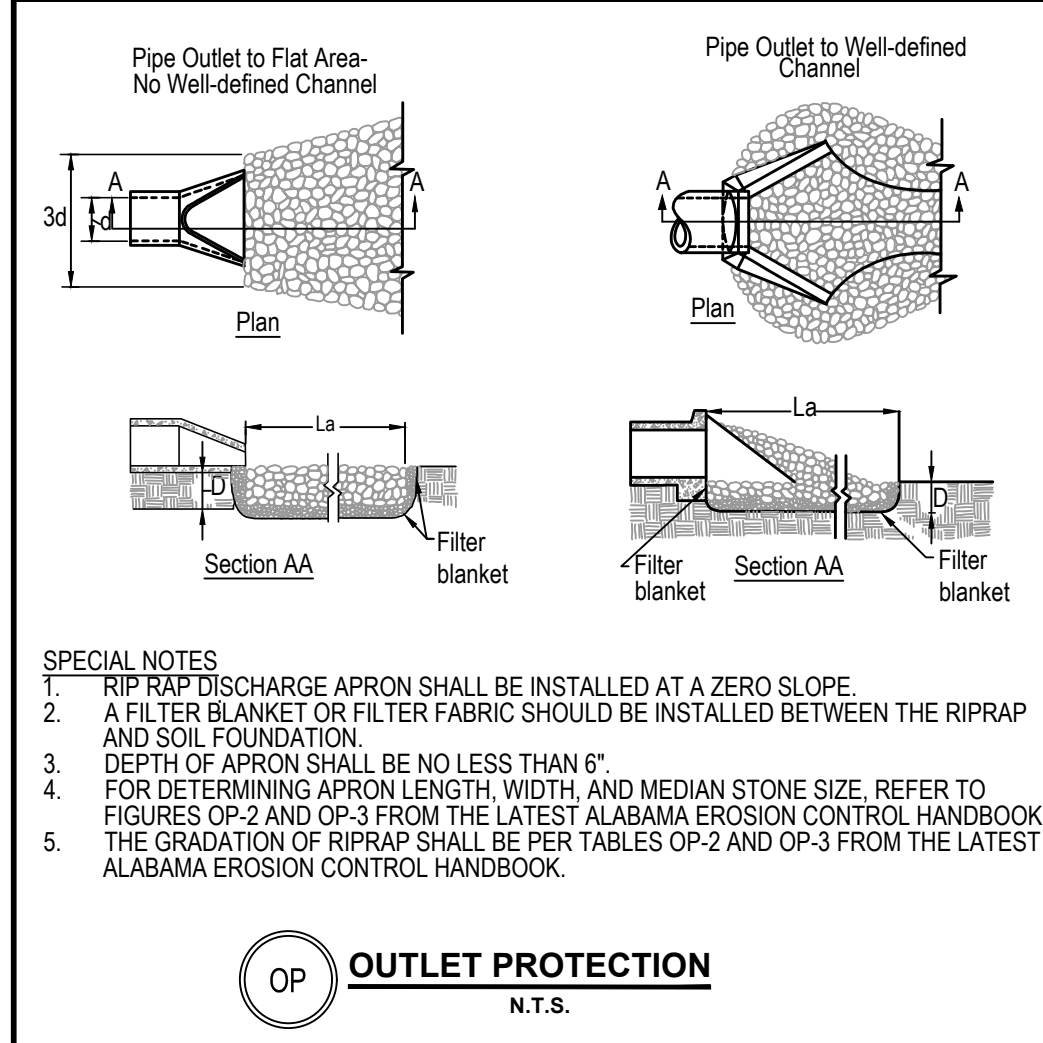
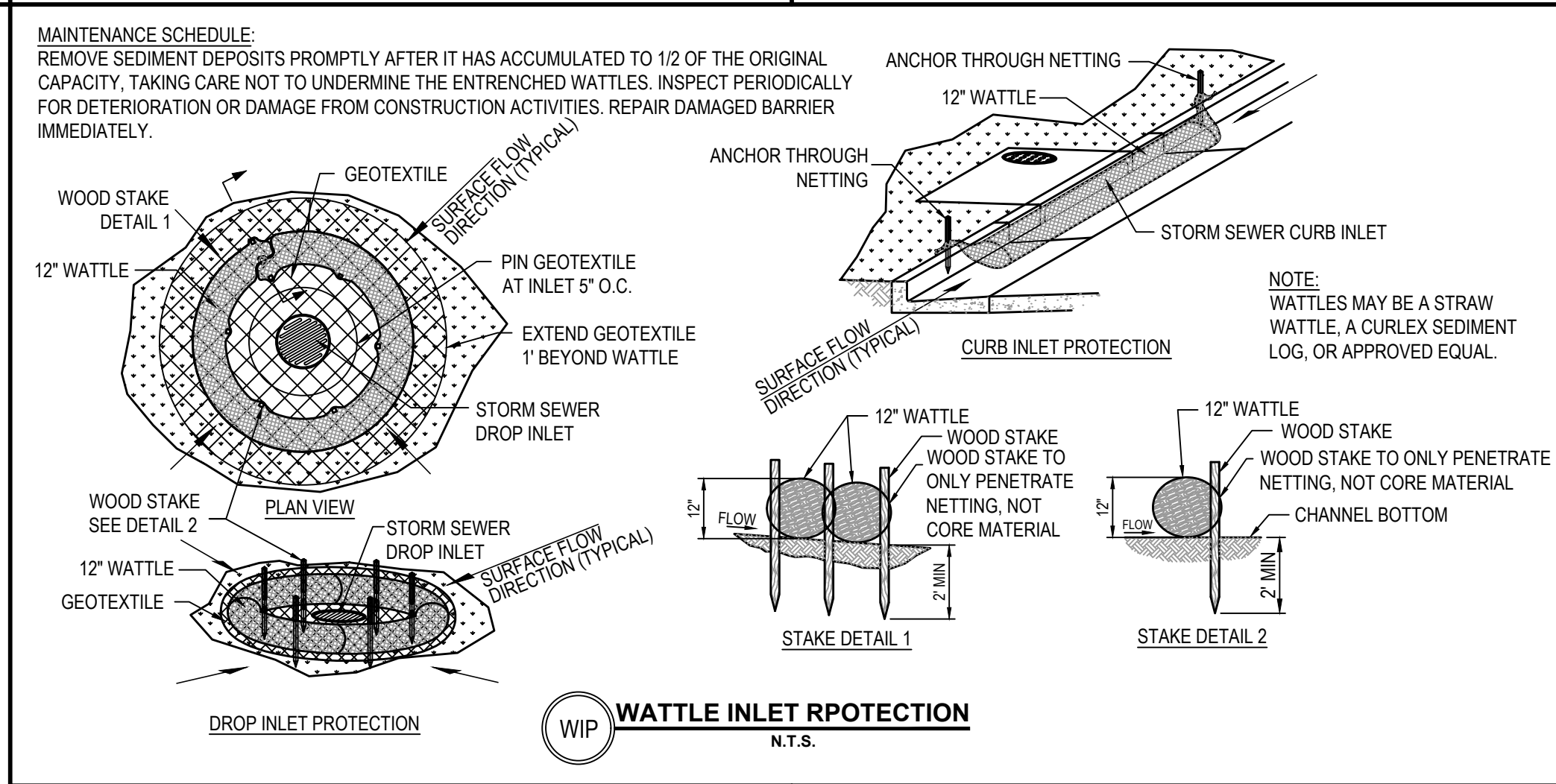
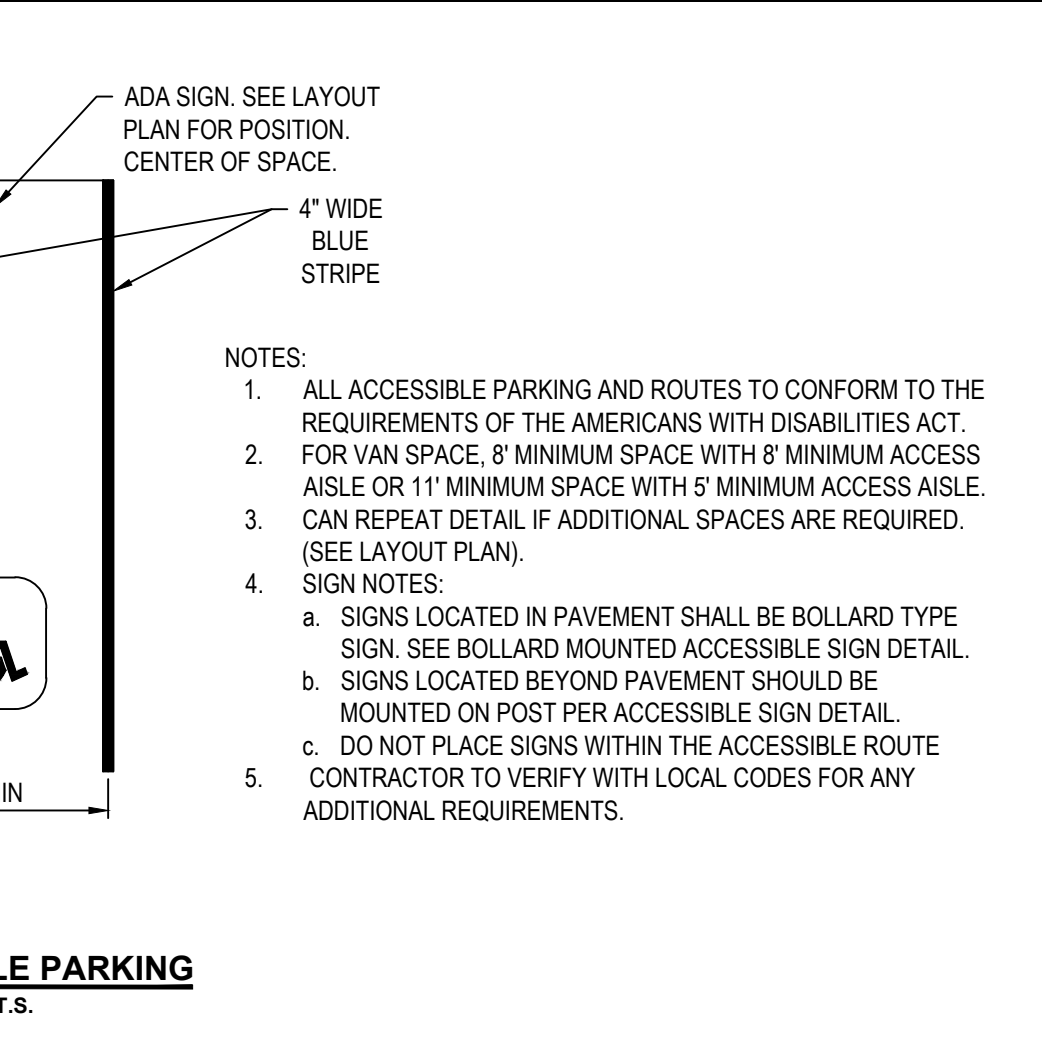
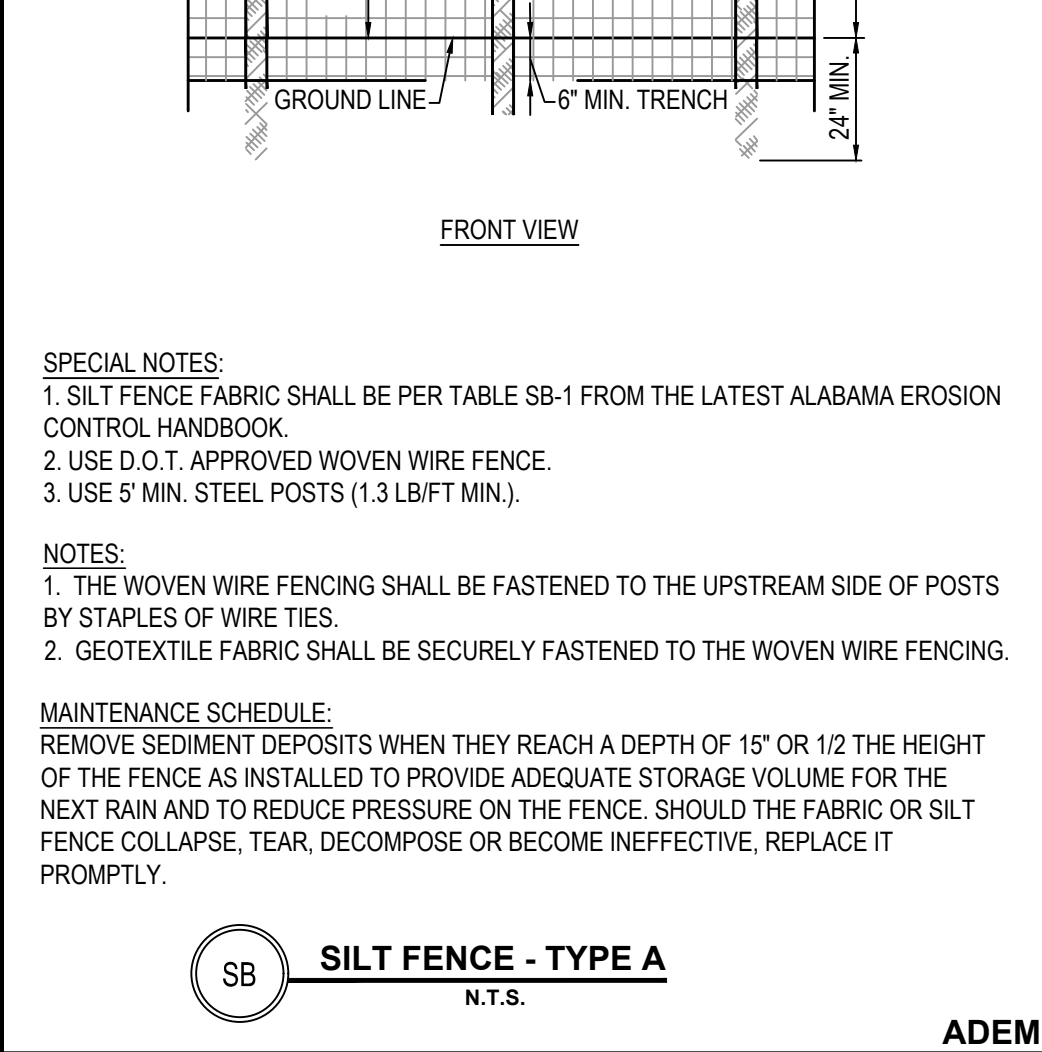
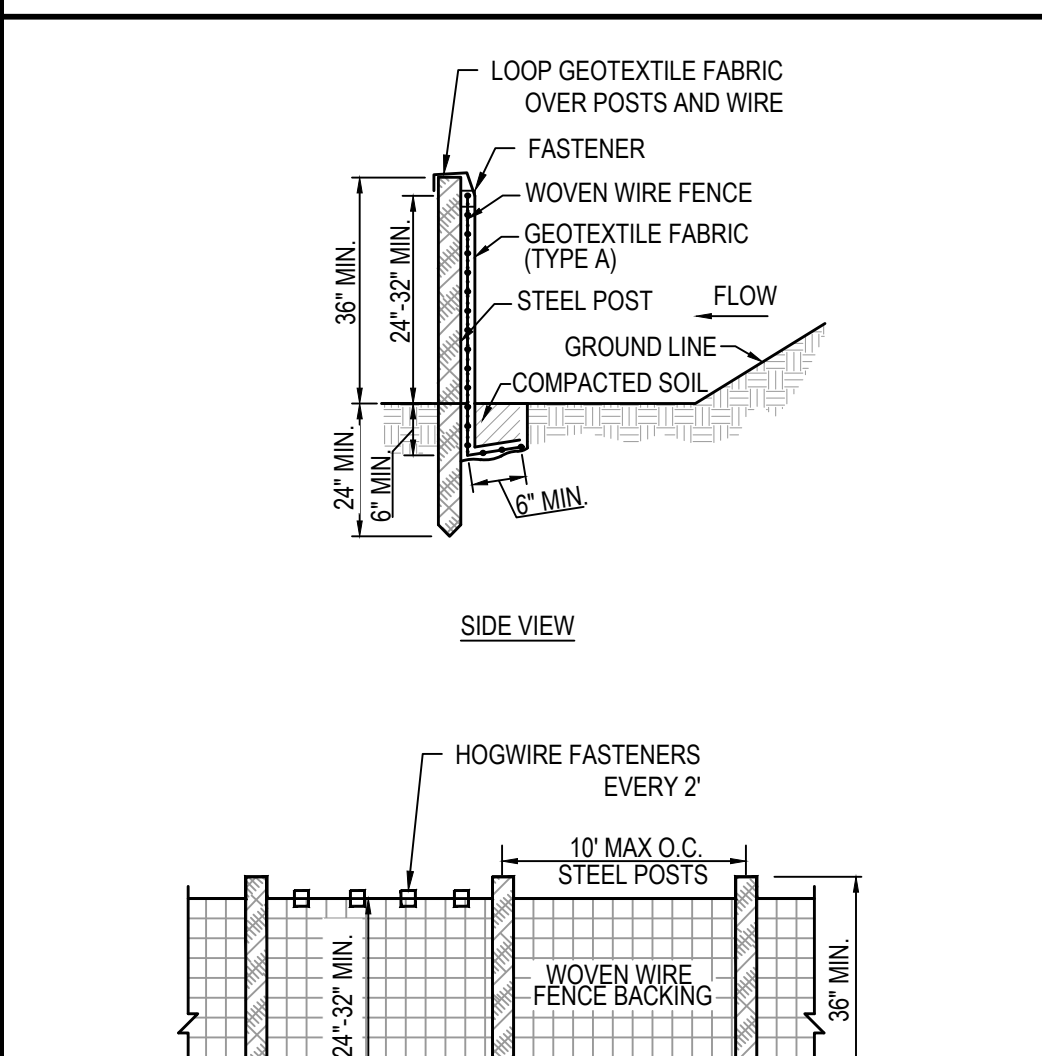
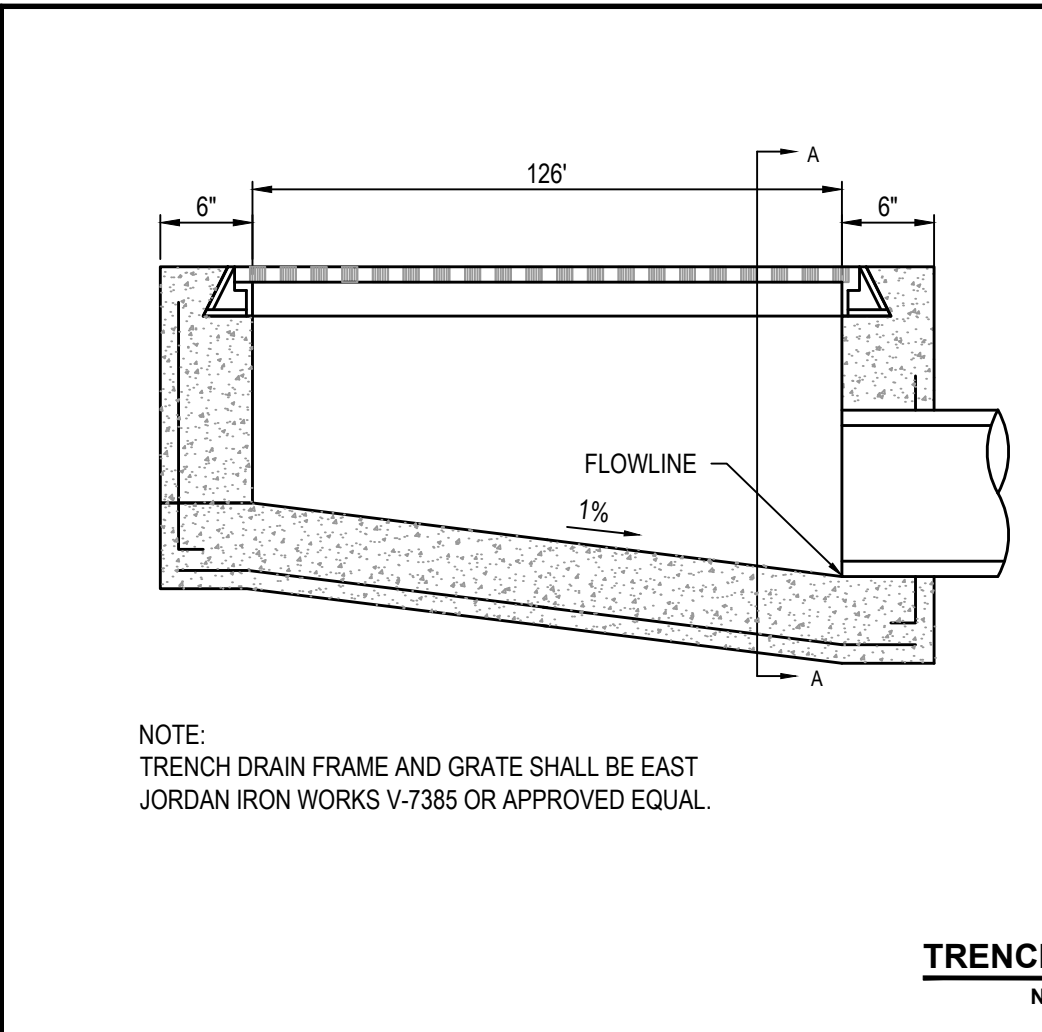
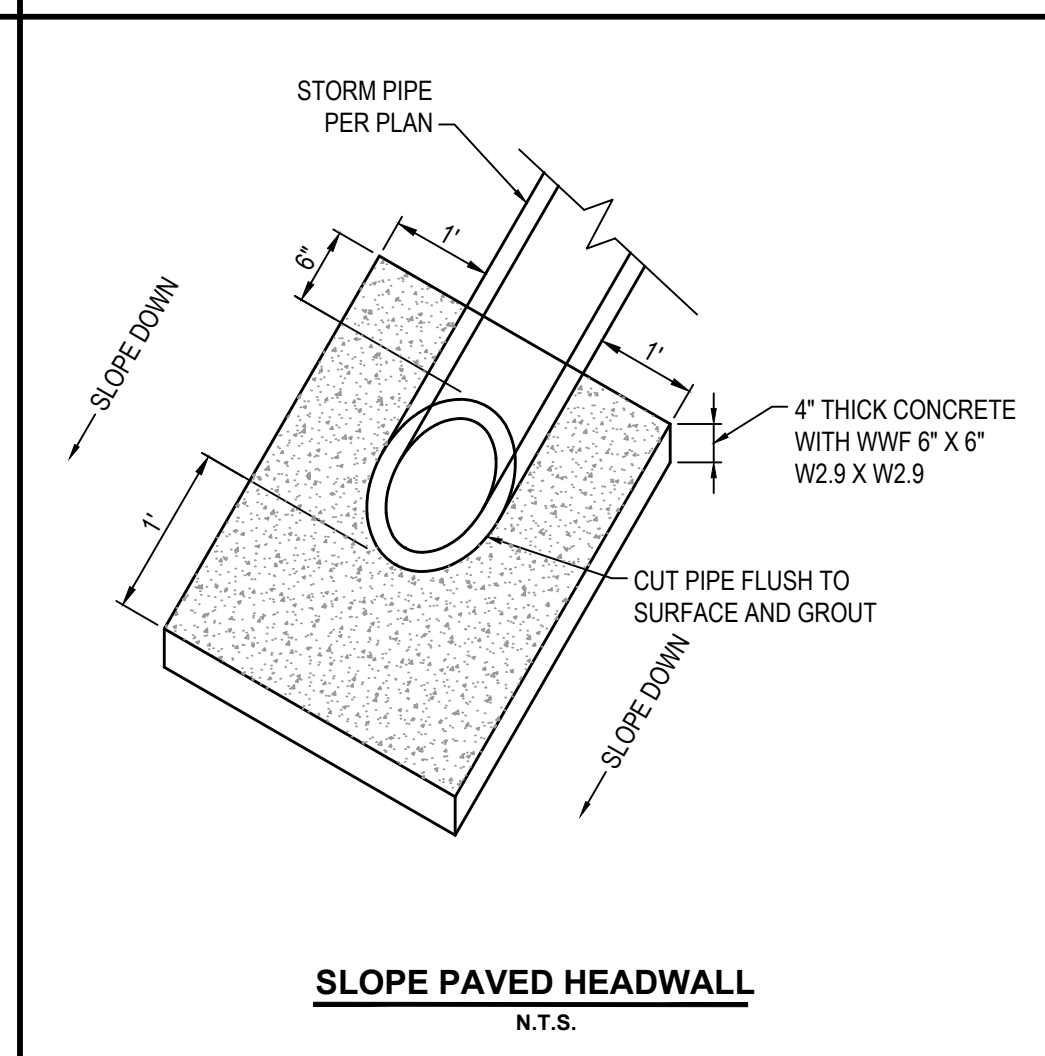
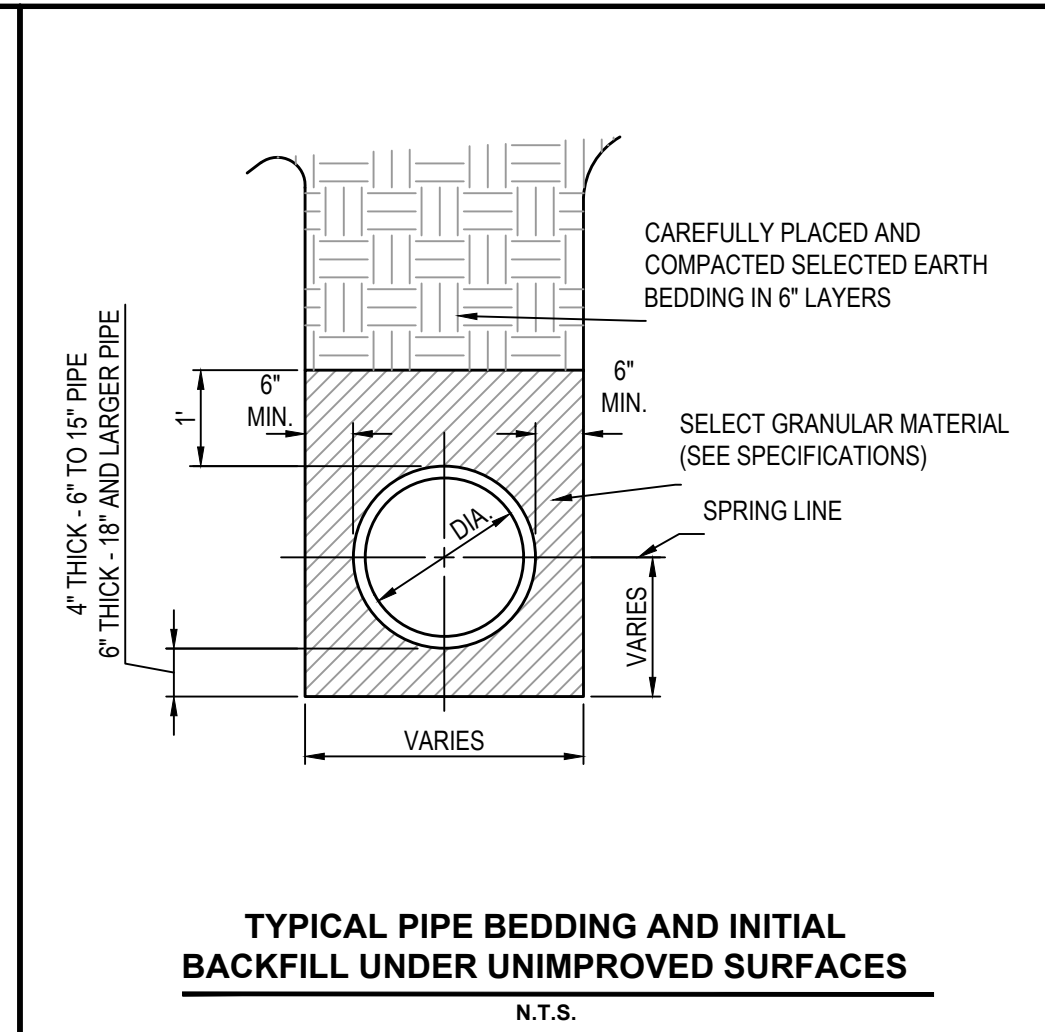
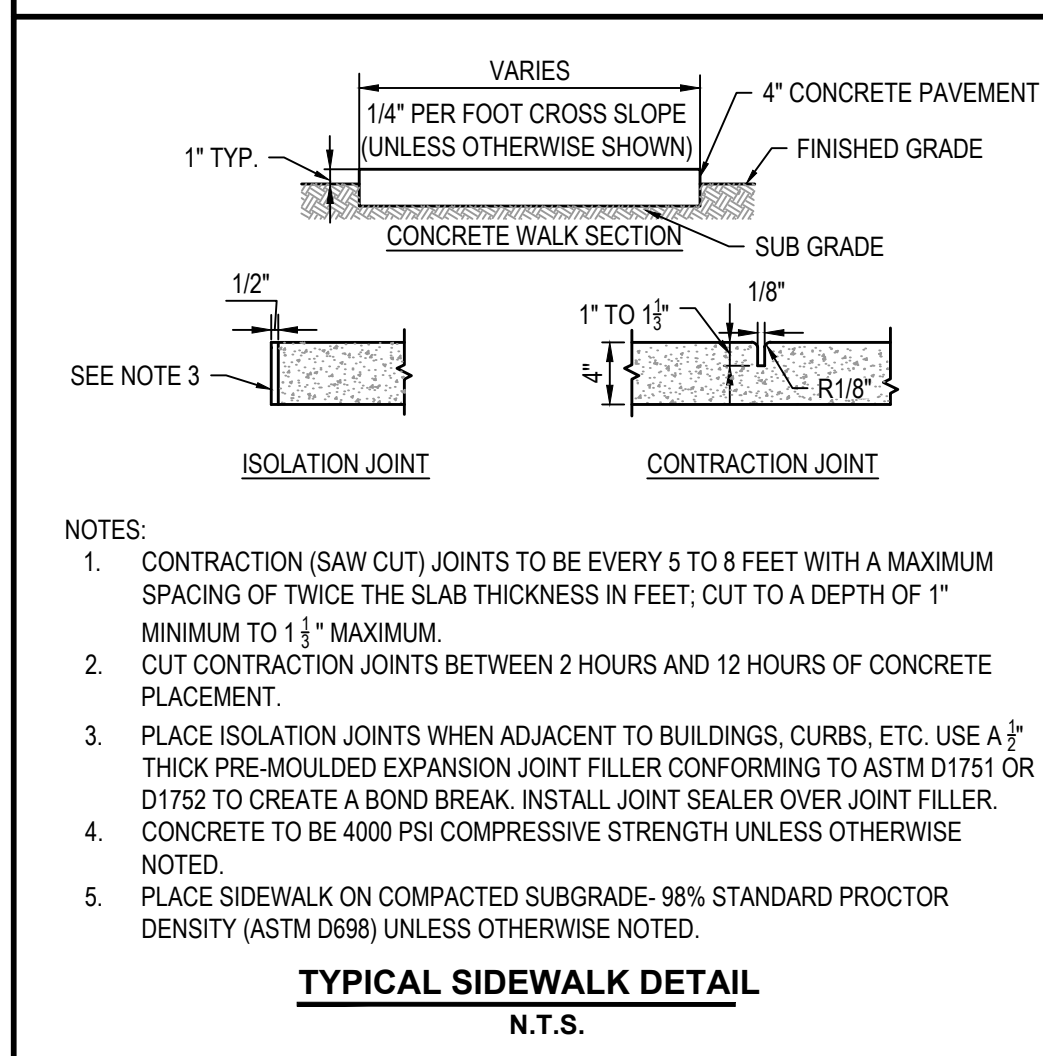
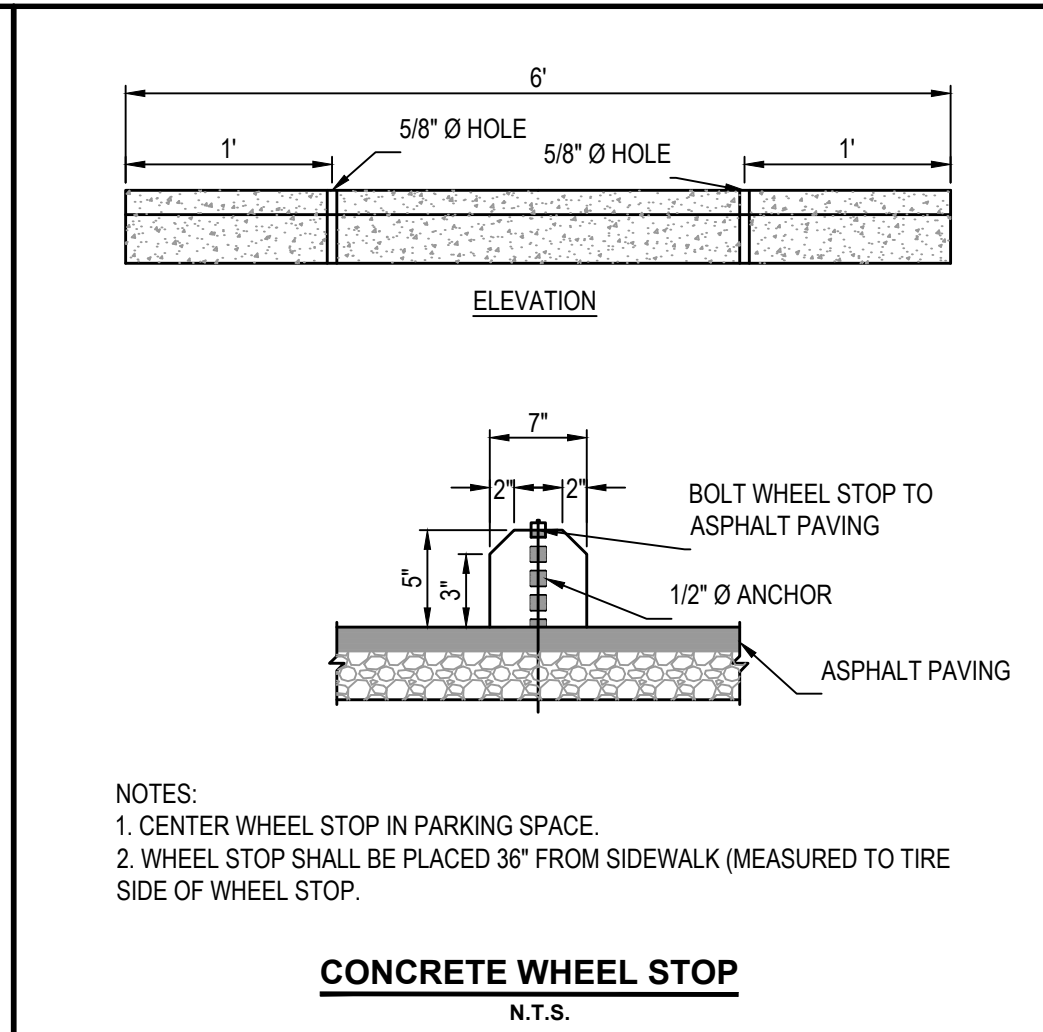
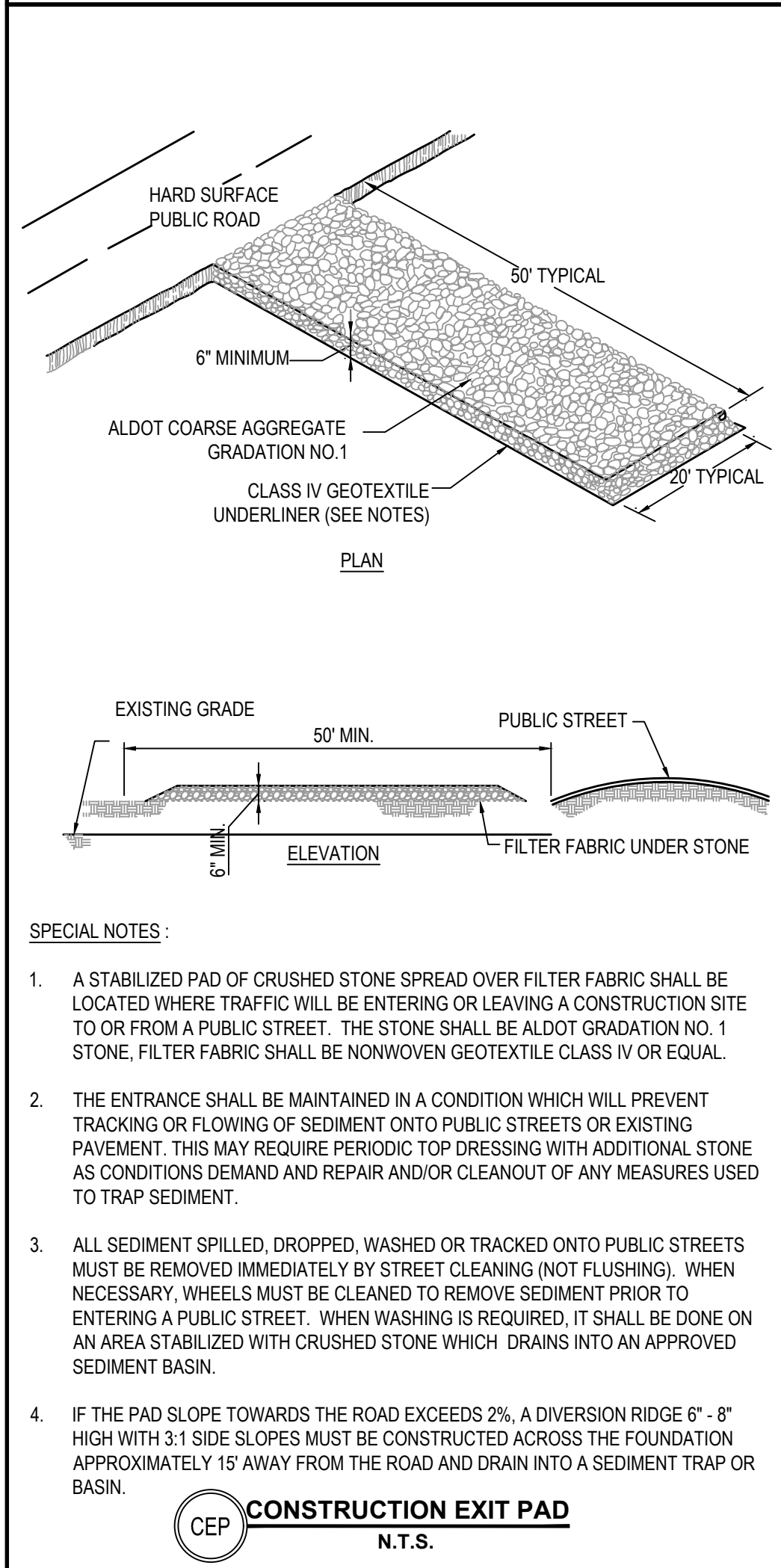
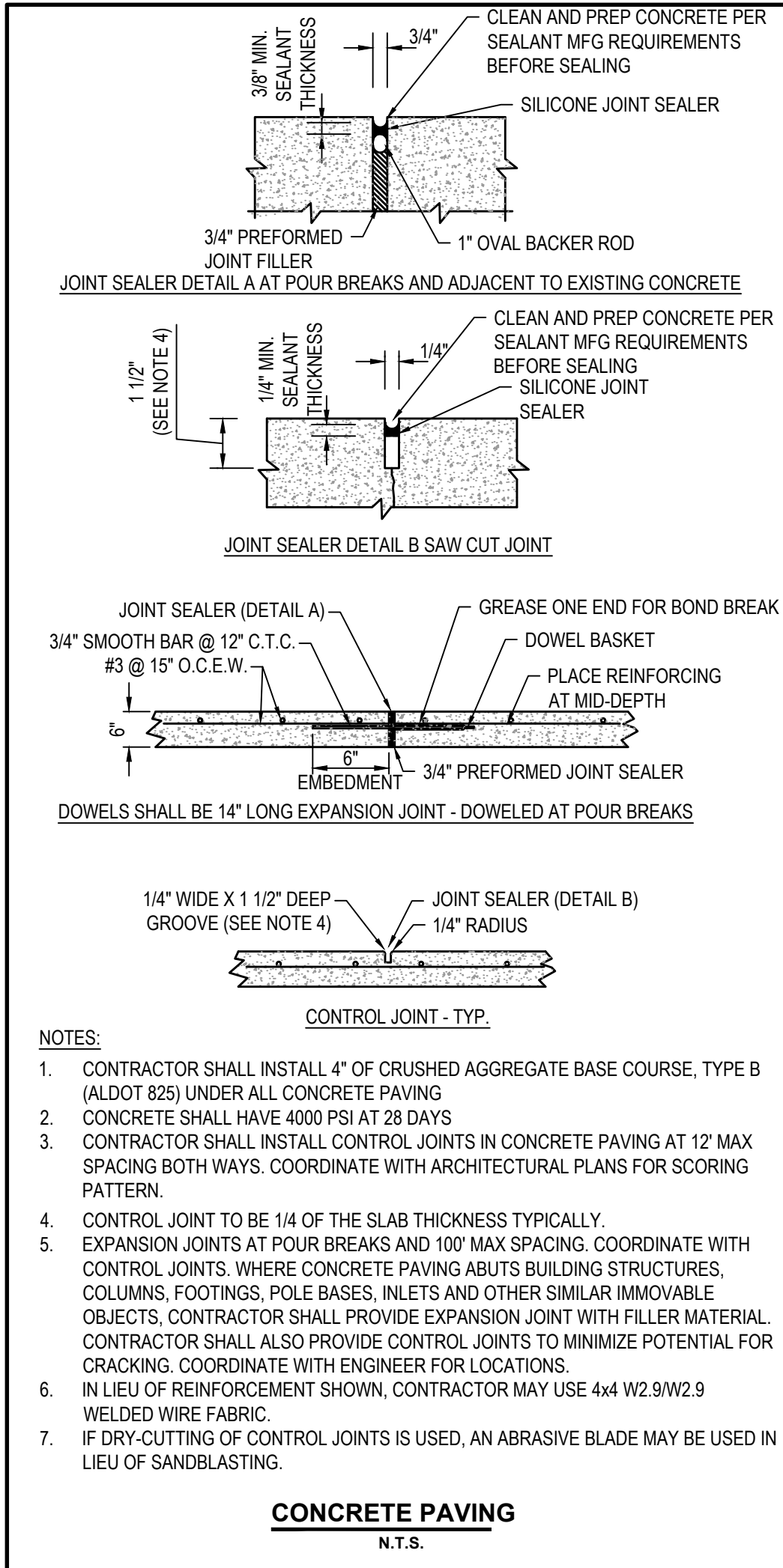
SHEET NO:

C1.0

2 OF 3



- SPECIAL NOTES:**
- SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.
 - SEE ELECTRICAL PLANS FOR ALL POWER SERVICE ROUTINGS.
 - NO WATER OR SANITARY SEWER SERVICES ARE REQUIRED FOR THIS BUILDING.
 - ALL DISTURBED AREAS SHALL BE SODDED OR GRAVELED TO MATCH EXISTING CONDITIONS.
 - EXISTING FIRE HYDRANT IS APPROXIMATELY 450' TO THE EAST.



BUTLER BUILDING FOR SURPLUS
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GADSDEN STATE COMMUNITY COLLEGE
1001 GEORGE WALLACE DRIVE, GADSDEN, ALABAMA 35903

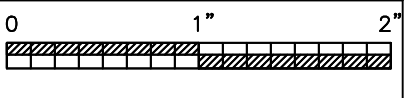


SHEET TITLE:
CIVIL DETAILS

PROJ. MGR.: CAH
DRAWN: CAH
DATE: MARCH 10, 2023
REVISIONS

JOB NO. 22-143
SHEET NO:

C2.0
3 OF 3

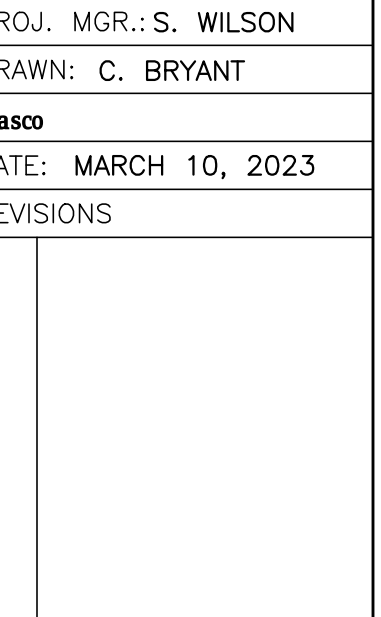




BUTLER BUILDING FOR SURPLUS

WALLACE DRIVE CAMPUS

GADSDEN STATE COMMUNITY COLLEGE
1001 GEORGE WALLACE DRIVE, GADSDEN, ALABAMA 35903

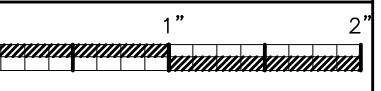


OB NO. 22-143

HEET NO:

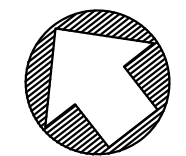
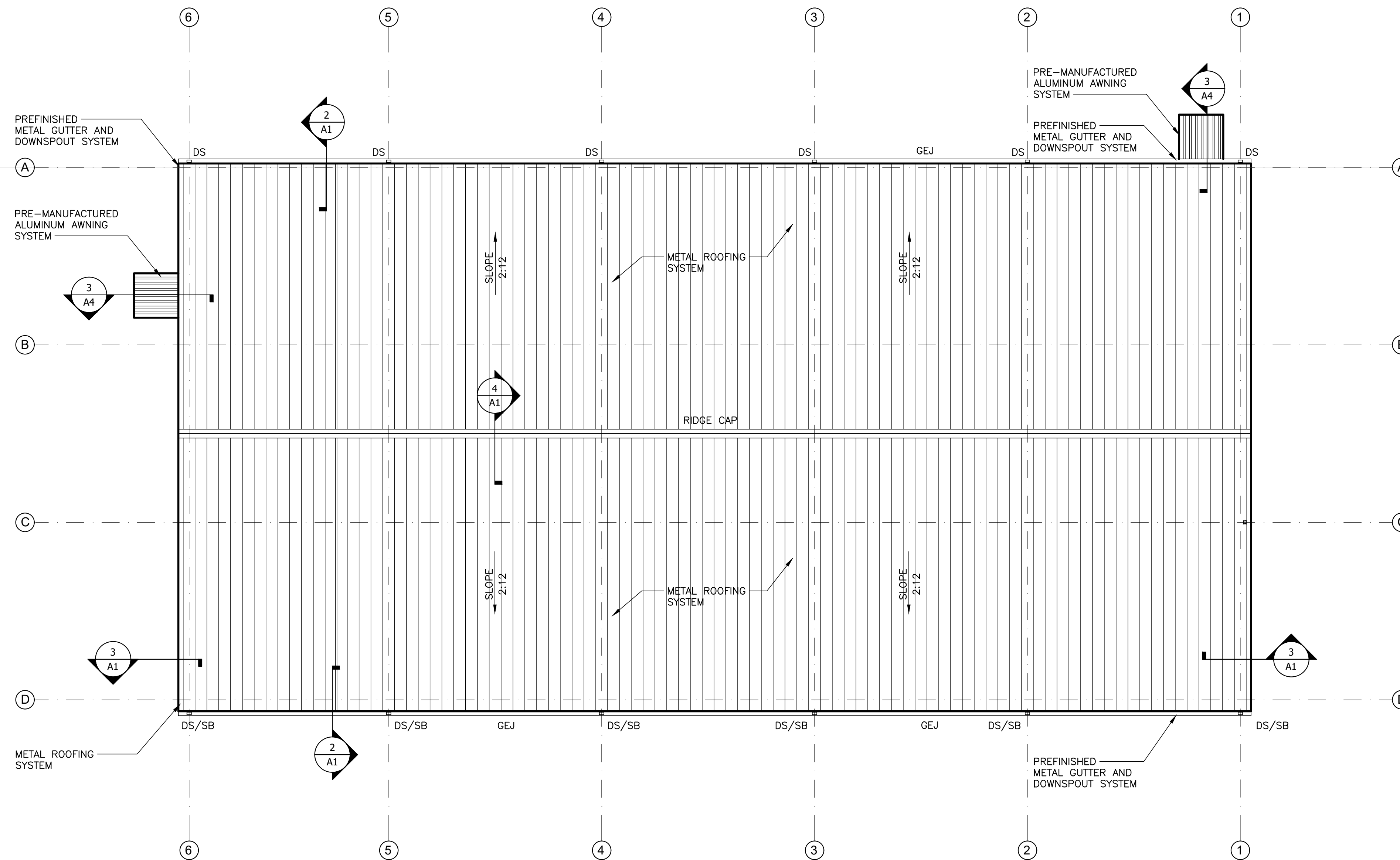
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OF 4



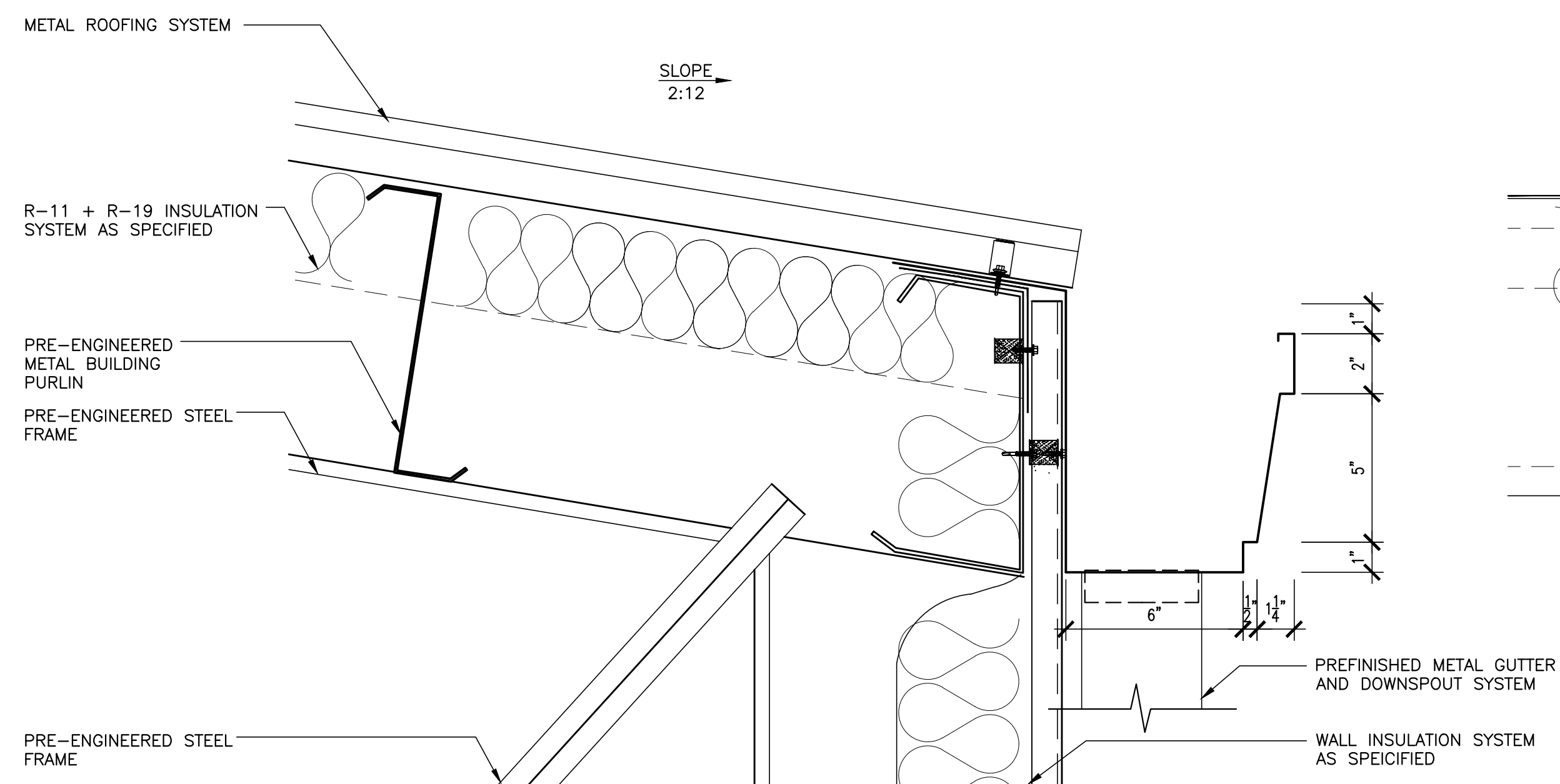
1. DO NOT SCALE DRAWINGS.
2. EACH INDIVIDUAL EQUIPMENT CONDITION ETC. MAY NOT HAVE A DETAIL DESIGNATION BUBBLE FOR CLARITY PURPOSES; HOWEVER, EACH DETAIL APPLIES TYPICALLY TO ALL EQUIPMENT, CONDITIONS OF THAT TYPE.
3. DO NOT CONCENTRATE MATERIAL LOADS ON THE ROOF.
4. DO NOT STORE MATERIALS ON THE ROOF.
5. COORDINATE DELIVERY SCHEDULE TO AVOID TRAFFIC CONFLICT WITH THE CAMPUS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WEATHER TIGHTNESS,
7. REMOVE AND LEGALLY DISPOSE OF ALL CONSTRUCTION DEBRIS FROM ROOF AND GROUNDS DAILY.
8. GUTTERS SHALL NOT EXCEED 50' IN LENGTH WITHOUT A GUTTER EXPANSION JOINT.
9. DOWNSPOUTS SHOWN ON THE ROOF PLAN ARE FOR GENERAL REFERENCE PURPOSES ONLY. THE CONTRACTOR IS TO SEE ELEVATIONS AND VERIFY PRACTICAL INSTALLATION LOCATIONS. (IE. NO DOWNSPOUTS AT LOCATIONS OF DOORS OR HEAVY TRAFFIC AREAS, ETC.) PRIOR TO PROVIDING NEW DOWNSPOUTS. VERIFY EXACT LOCATIONS WITH ARCHITECT.
10. SEE MECHANICAL, PLUMBING AND ELECTRICAL FOR ADDITIONAL PENETRATIONS NOT INDICATED AND PROVIDE WEATHERTIGHT PENETRATIONS SUPPORTED BY MANUFACTURER'S/WARRANTY REQUIREMENTS.
11. MINIMUM ROOF SLOPE 2:12.

<u>ROOF DETAIL MARKER</u>			
	DETAIL NUMBER	DS	DOWNSPOUT
	SHEET NUMBER	SB	SPLASH BLOCK
<u>ROOF SLOPE MARKER</u>			
	DIRECTION OF DOWNWARD SLOPE	GEJ	GUTTER EXPANSION JOINT
	RISE : RUN		
	PREFINISHED STANDING SEAM ROOFING SYSTEM		
	PREFINISHED ALUMINUM CANOPY SYSTEM		



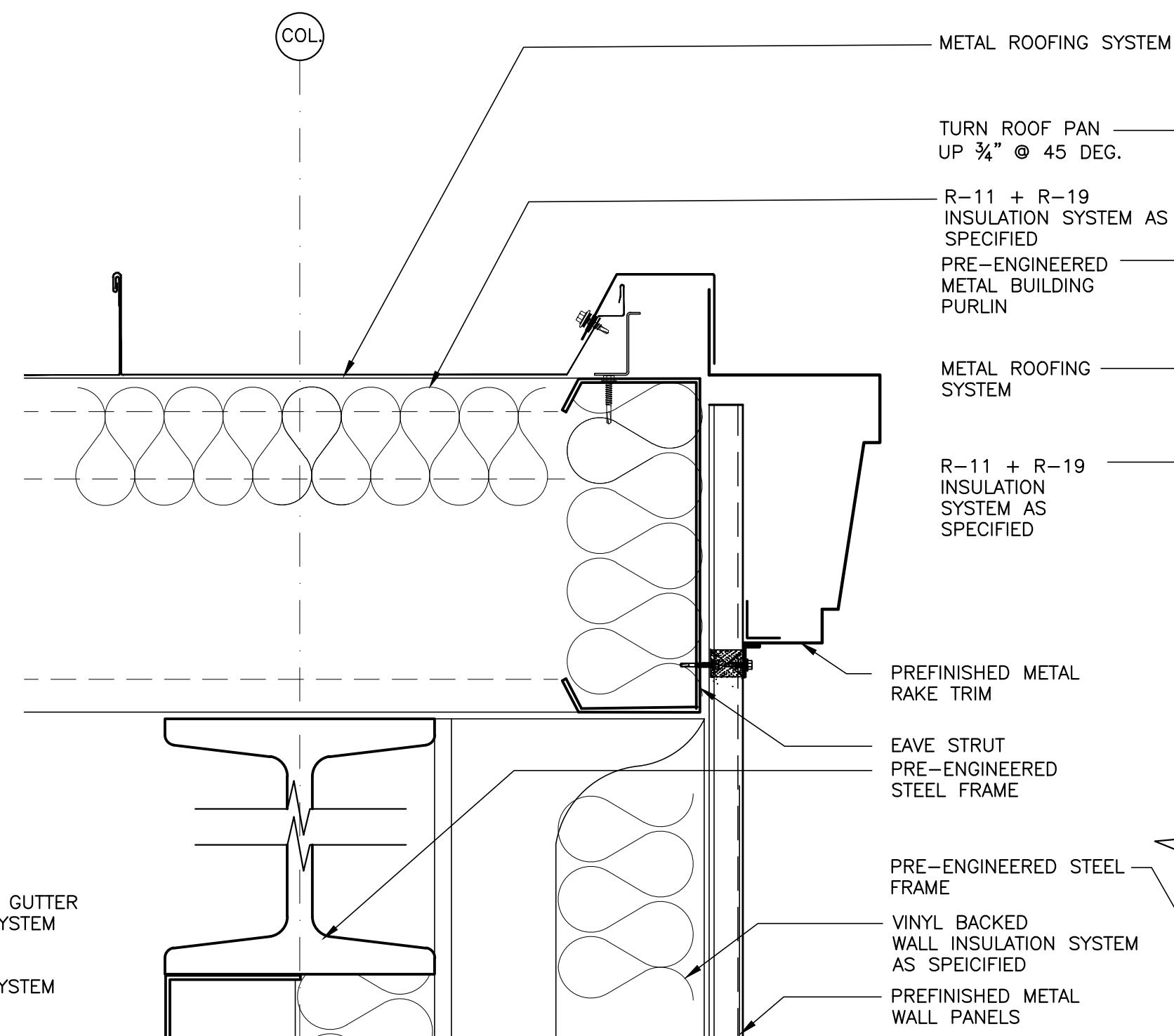
1 ROOF PLAN

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



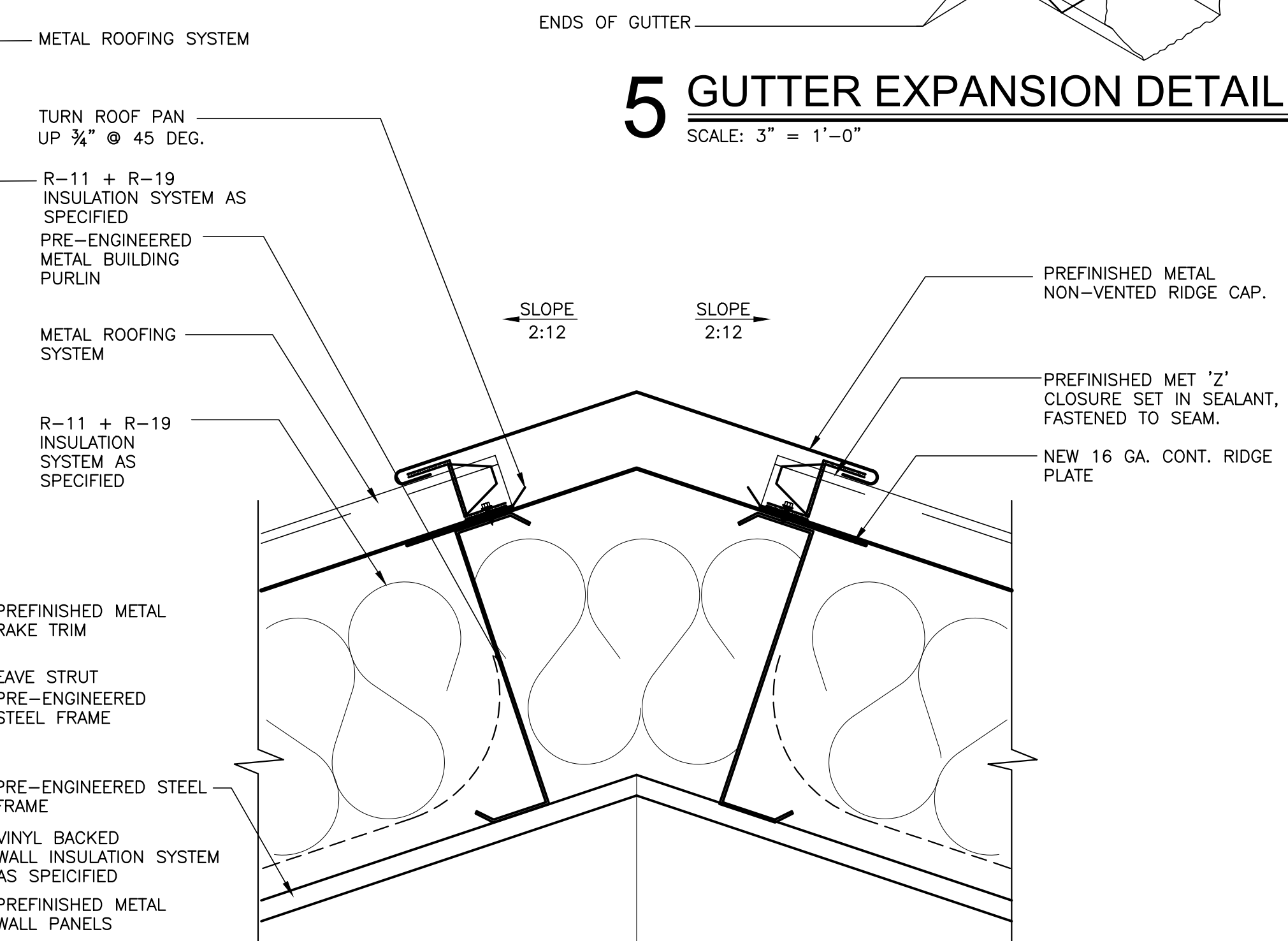
ROOF DETAIL

SCALE: 3" = 1'-0"



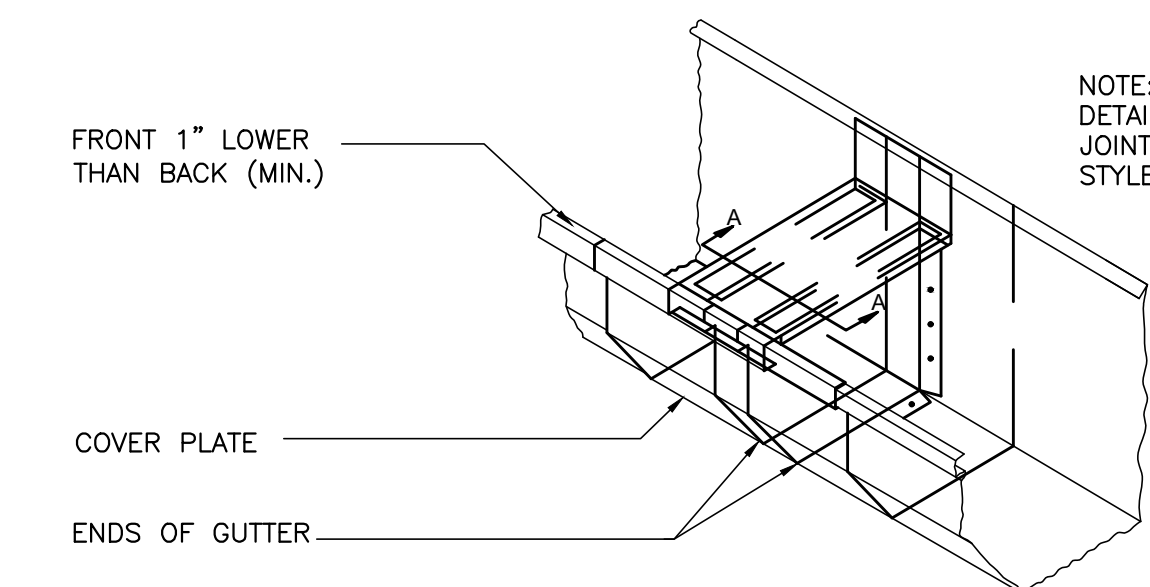
ROOF DETAIL

SCALE: 3" = 1'-0"



ROOF DETAIL

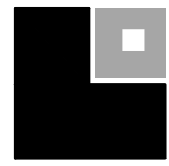
SCALE: 3" = 1'-0"



NOTE: THE INTENT OF THIS
DETAIL IS TO SHOW EXPANSION
JOINT ASSEMBLY ONLY; GUTTER
STYLES MAY DIFFER.

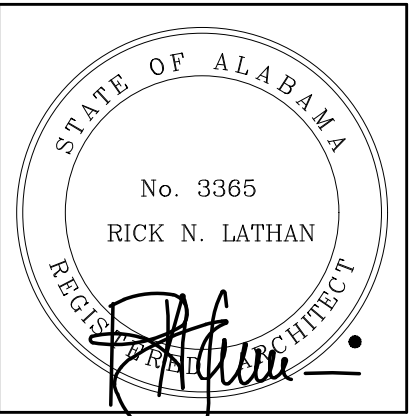
5 GUTTER EXPANSION DETAIL

SCALE: 3" = 1'-0"



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SHEET TITLE:
FLOOR PLAN, DOOR
SCHEDULE & DETAILS

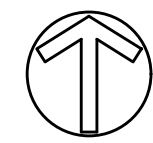
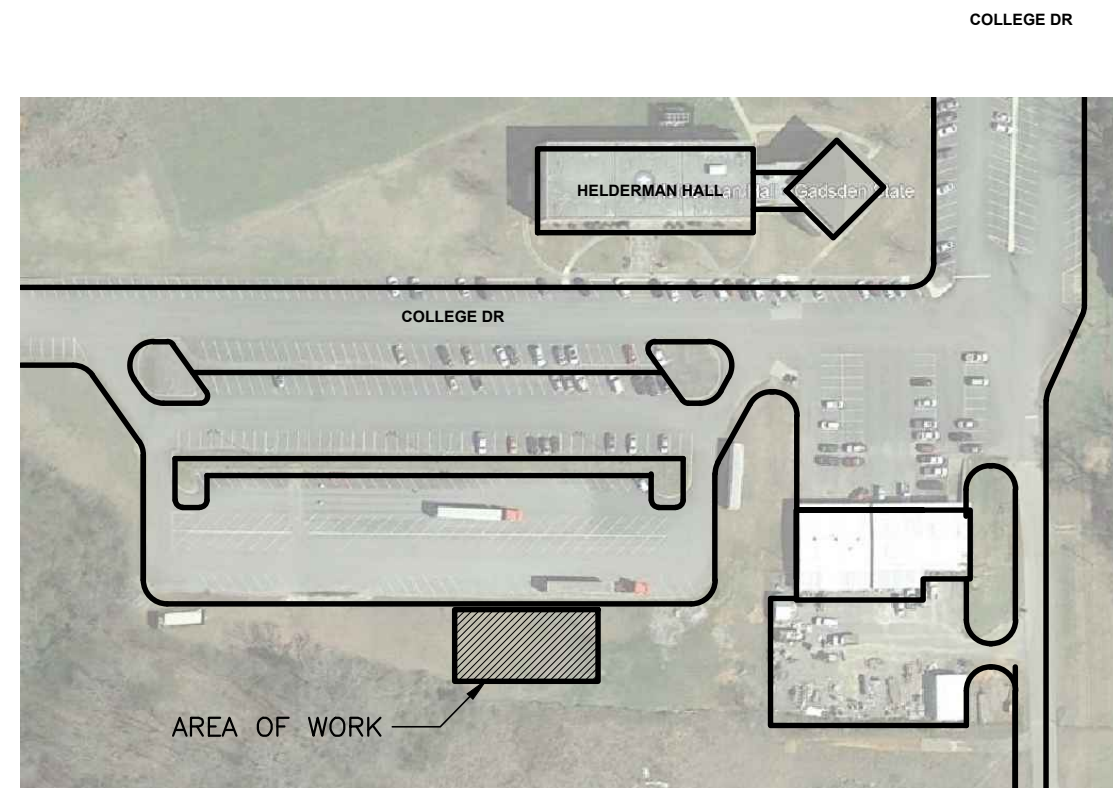
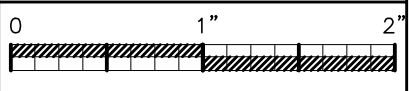
PROJ. MGR.: S. WILSON
DRAWN: C. BRYANT
Rasco
DATE: MARCH 10, 2023
REVISIONS

JOB NO. 22-143

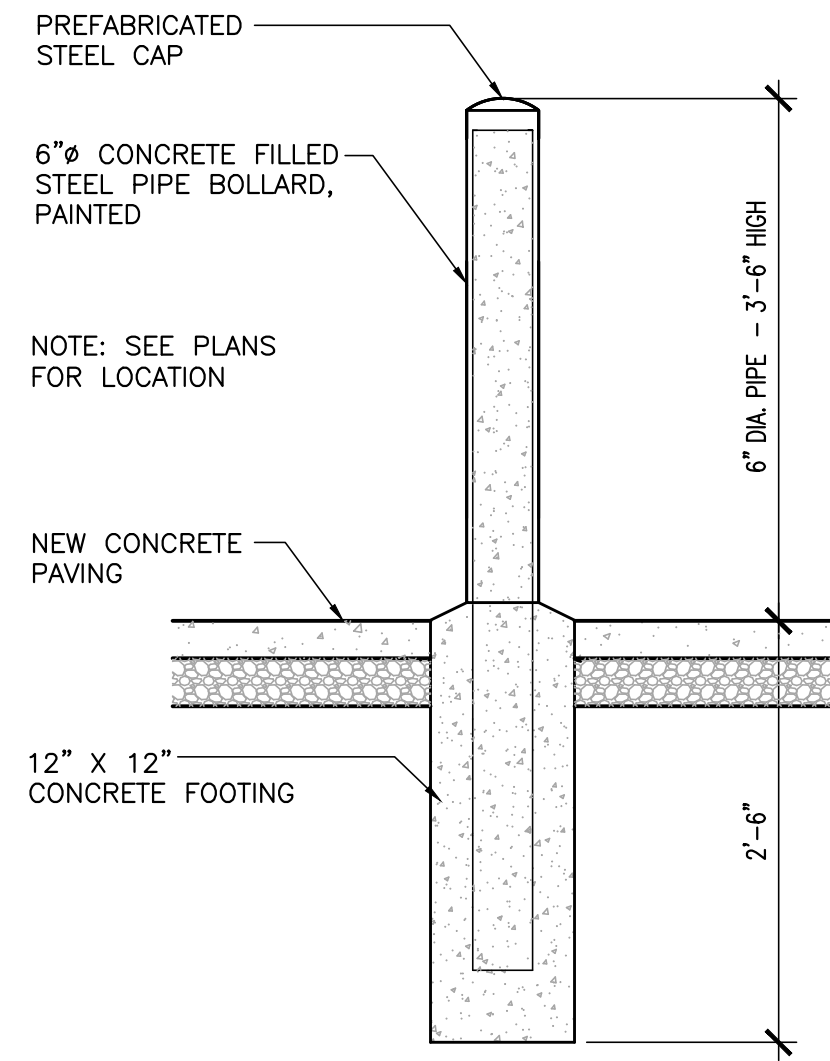
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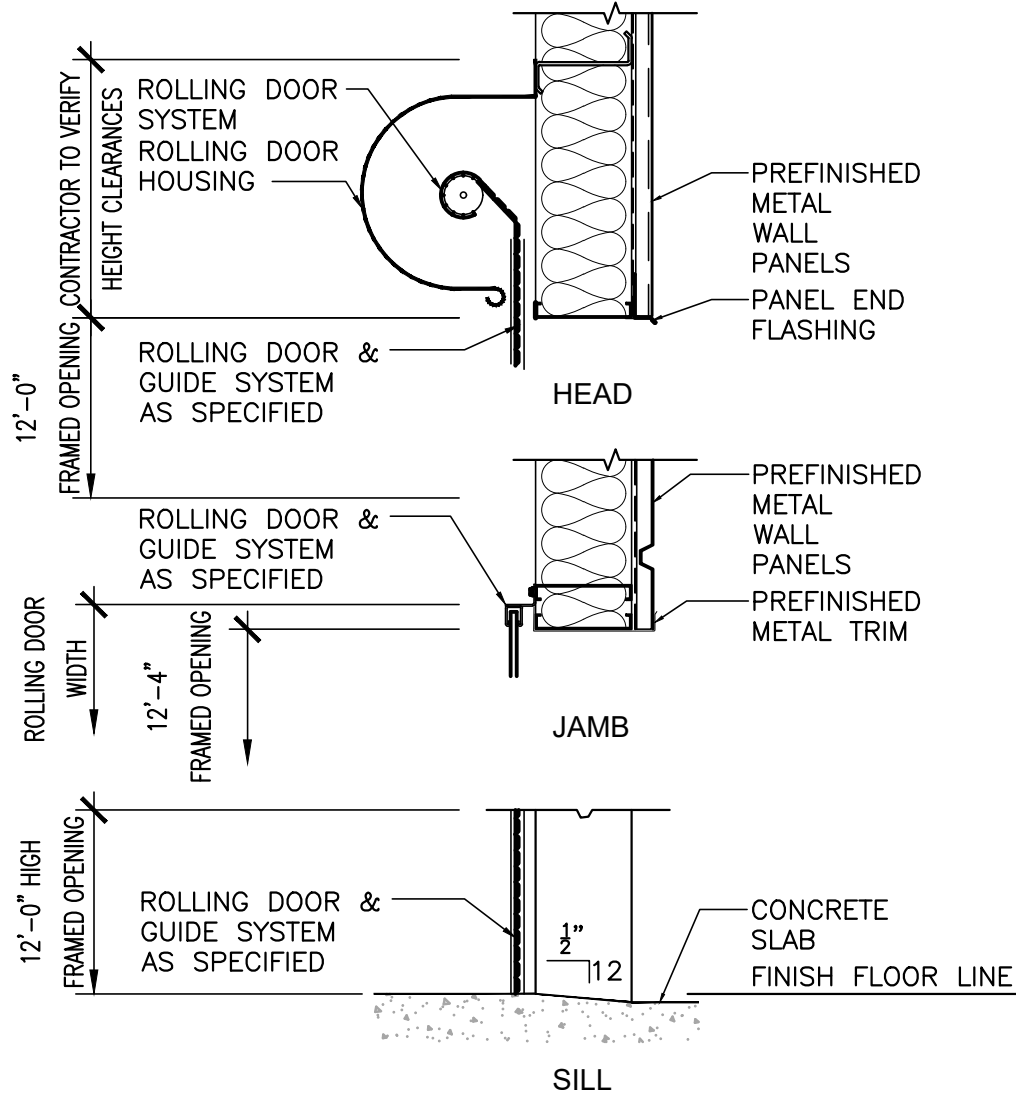
2 OF 4



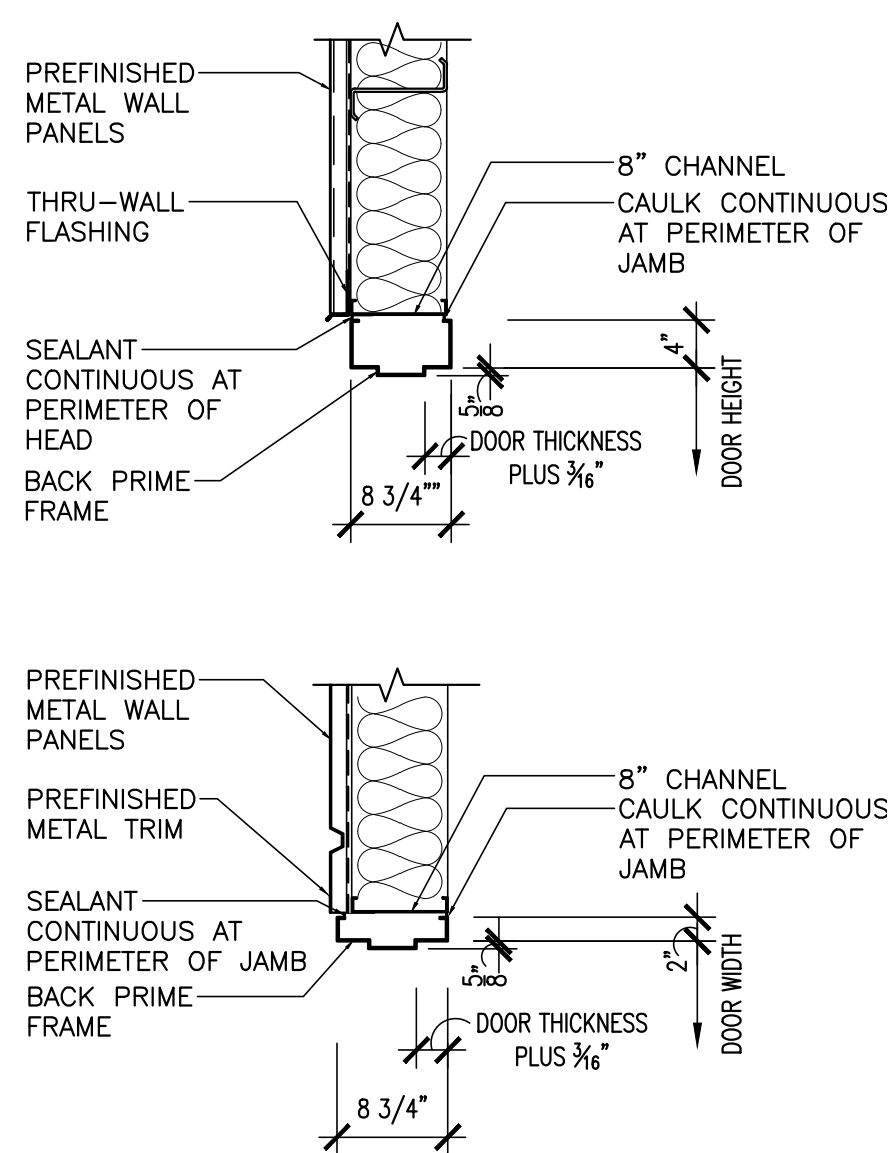
KEY PLAN
STATE OF ALABAMA



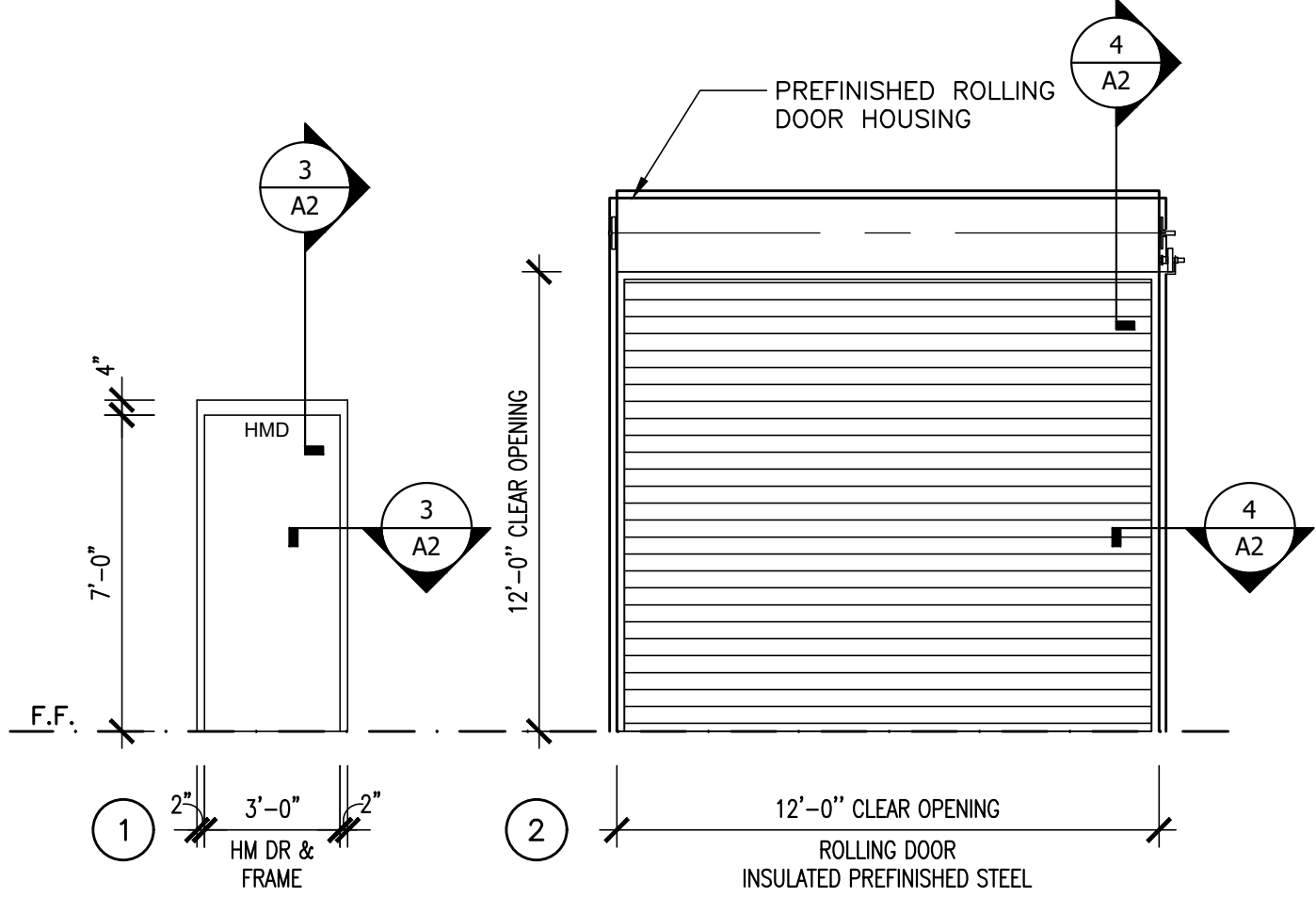
5 BOLLARD DETAIL
SCALE: 3/4" = 1'-0"



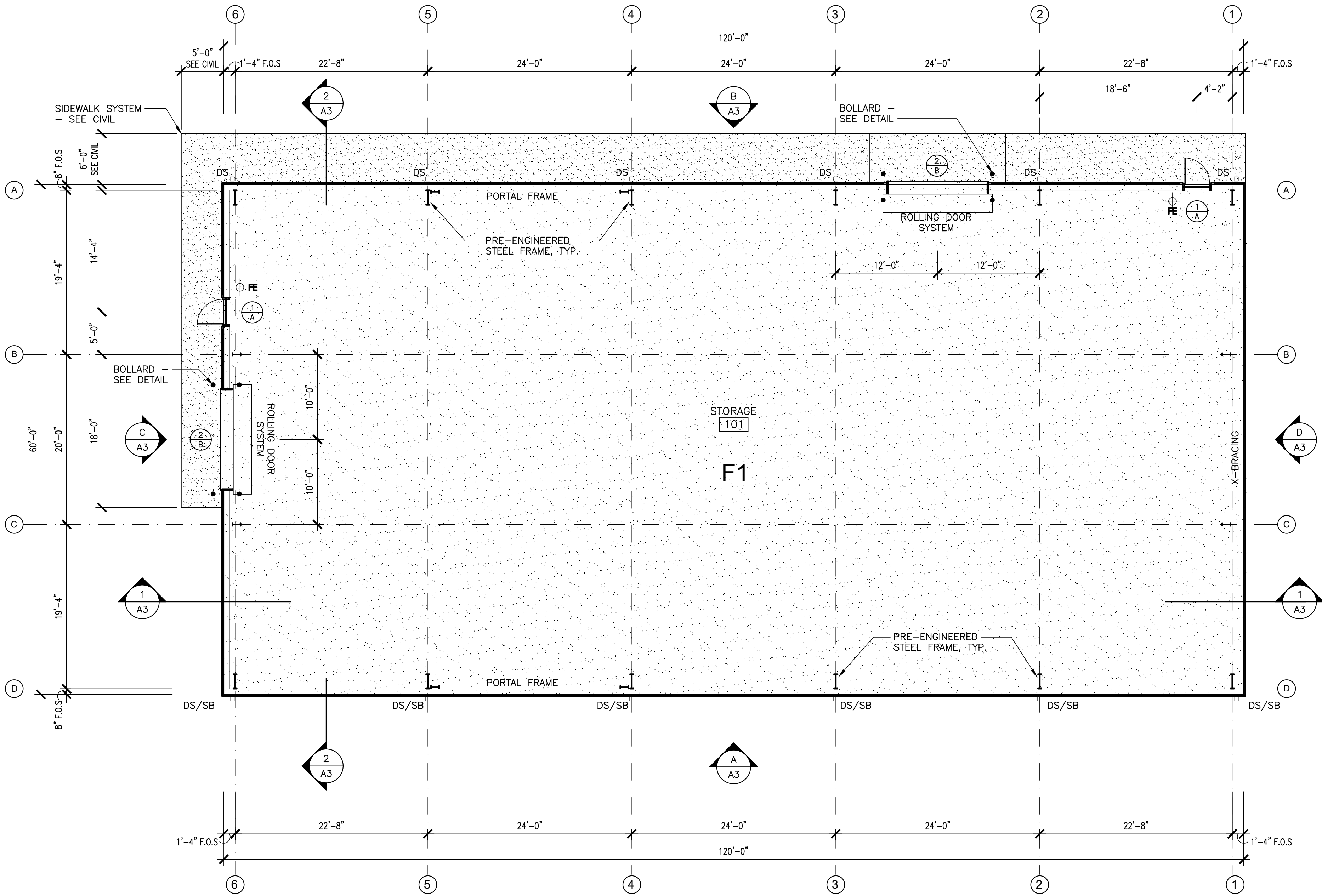
4 ROLLING DOOR DETAIL
SCALE: 3/4" = 1'-0"



3 HOLLOW METAL
FRAME DETAILS
SCALE: 3/4" = 1'-0"

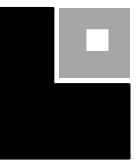


2 DOOR SCHEDULE
SCALE: 1/4" = 1'-0"



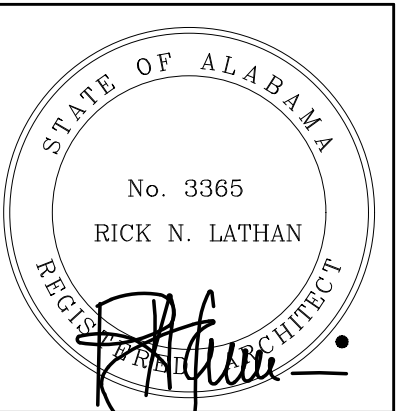
SYMBOLS LEGEND	DOOR PLACEMENT LEGEND
DOOR TYPE DOOR RATING HARDWARE SYMBOL	18" MIN. FLUSH FRAME
ELEV. MARK SHEET NUMBER	EQ EQ 18" MIN. CENTERED FRAME
NEW DOOR AND SWING	8" 18" MIN. 12" MIN. OFFSET FRAME
ROOM NUMBER	
SURFACE MOUNT FIRE EXTINGUISHER	
SECT. MARK SHEET NUMBER	
ELEV. MARK SHEET NUMBER INT. ELEVATION	
AREA OF CONCRETE	
FOS FACE OF STEEL	
GENERAL NOTES	
COORDINATE W/ ELECTRICAL AND MECHANICAL AND PROVIDE CONCRETE EQUIPMENT PAD AS REQUIRED	
SEE CIVIL DRAWINGS FOR CONTINUATION OF SIDEWALKS	
SEE ELEVATIONS AND ROOF PLAN FOR DOWNSPOUT LOCATIONS	
SLOPE ALL SIDEWALKS AWAY FROM THE BUILDING 1/4" : 12'	
LIGHTING/ELECTRICAL NOTES	
COORDINATE LIGHTING LAYOUTS WITH ELECTRICAL DRAWINGS. CONTACT ARCHITECT WITH ANY DISCREPANCIES	
FINISH NOTES	
PROVIDE A SMOOTH CONCRETE SLAB SYSTEM - OWNER SHALL SELF PERFORM FINISHED FLOORING SYSTEM.	
CEILING SYSTEM IS EXPOSED STRUCTURE ABOVE. PROVIDE PAINT AS SPECIFIED.	
FINISH SCHEDULE	
FLOOR: F1 - CONCRETE	

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



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SHEET TITLE:
BUILDING ELEVATIONS AND
BUILDING SECTIONS

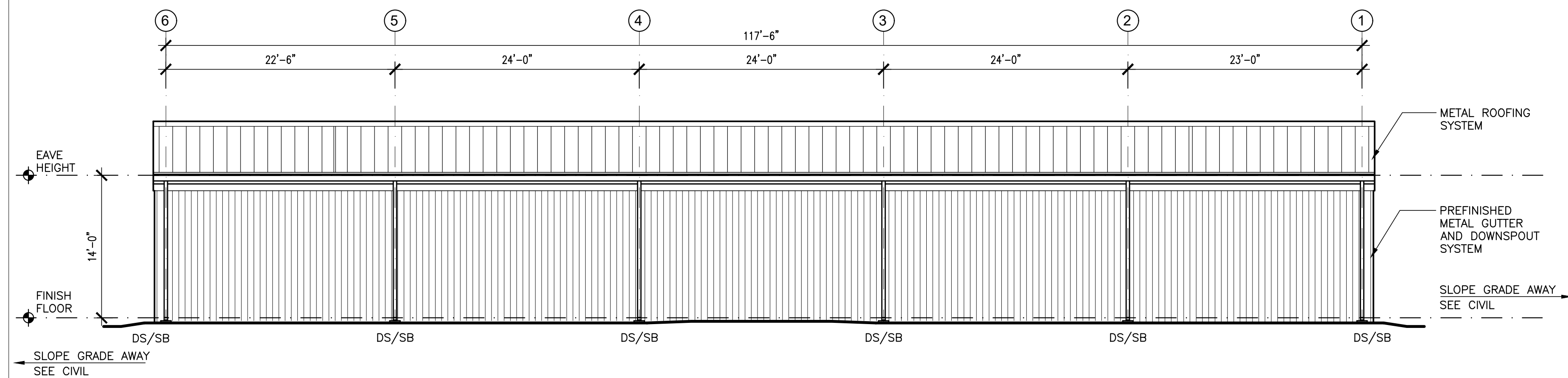
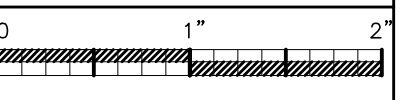
PROJ. MGR.: S. WILSON
DRAWN: C. BRYANT
DATE: MARCH 10, 2023
REVISIONS

JOB NO. 22-143

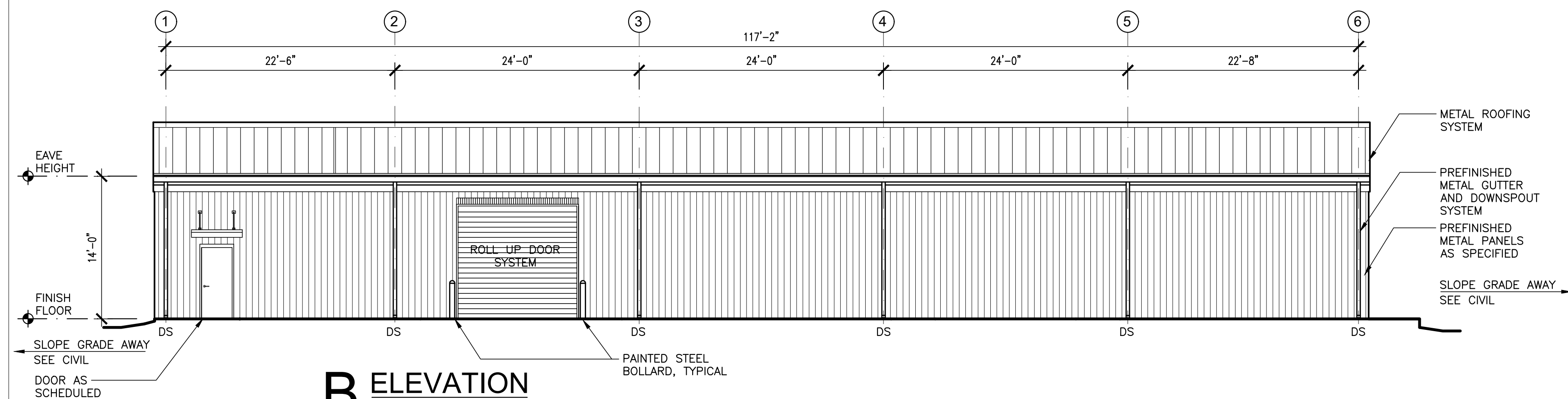
SHEET NO:

A3

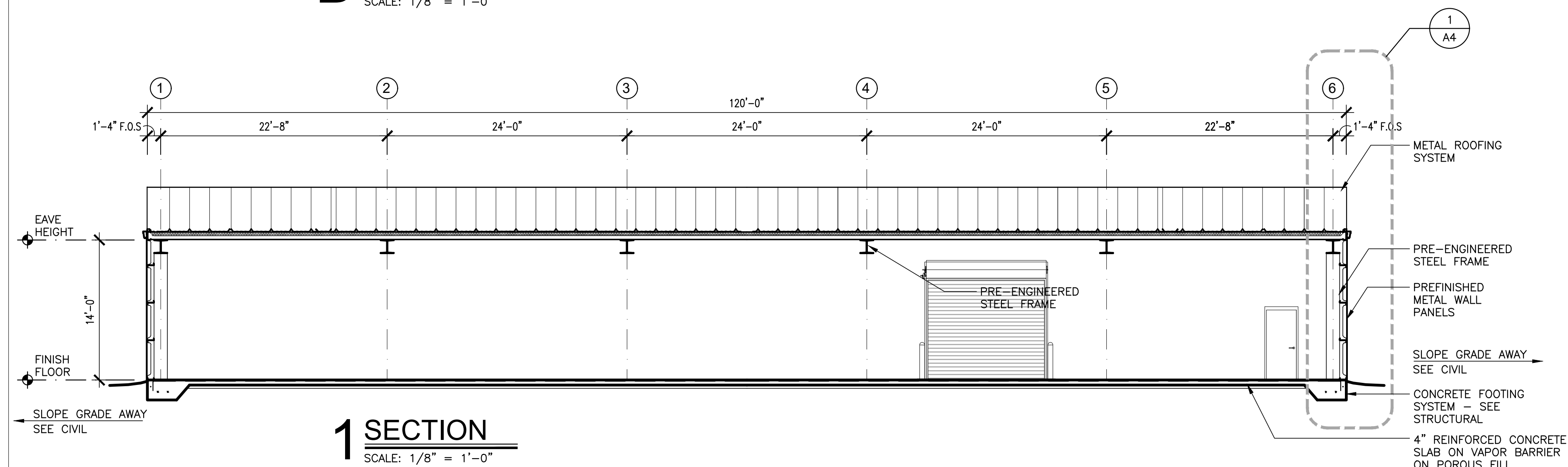
3 OF 4



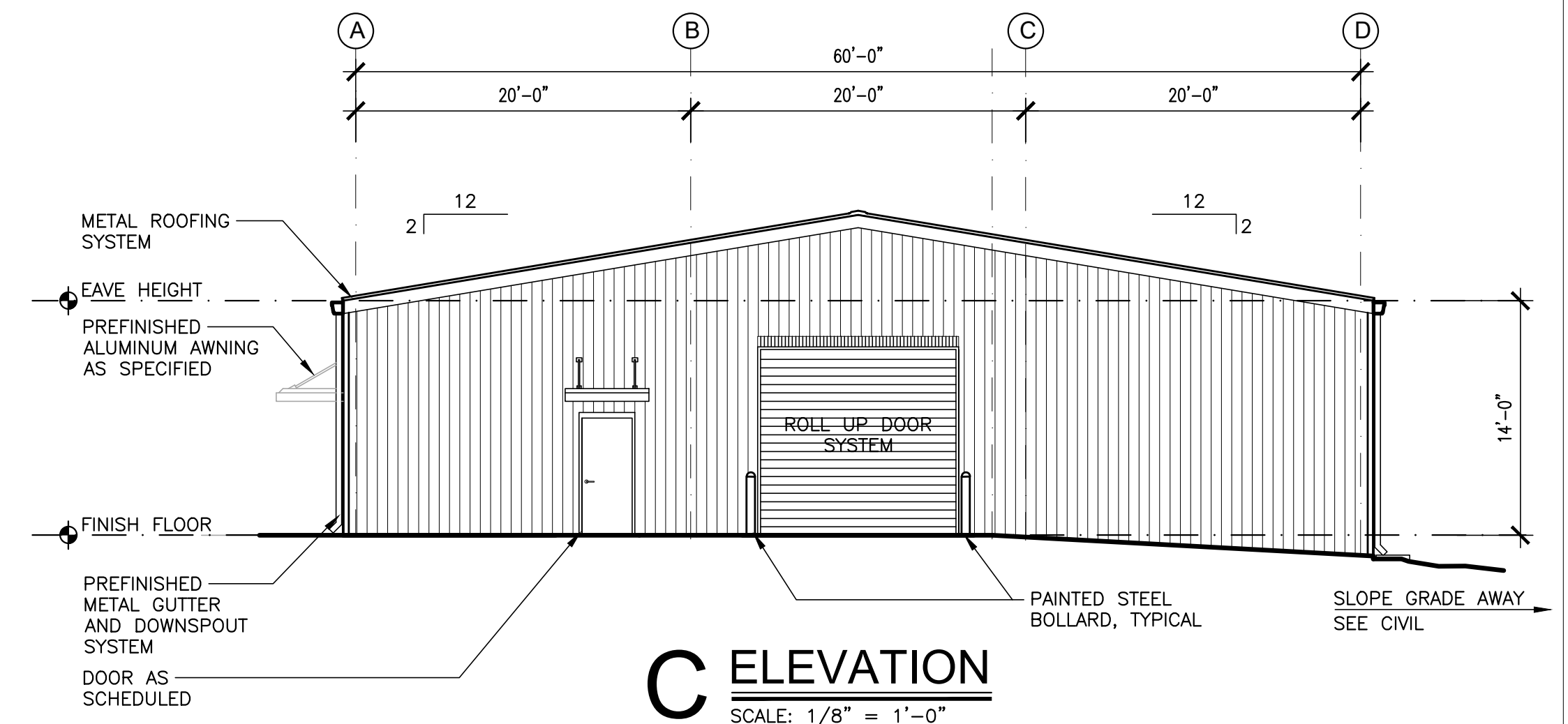
A ELEVATION
SCALE: 1/8" = 1'-0"



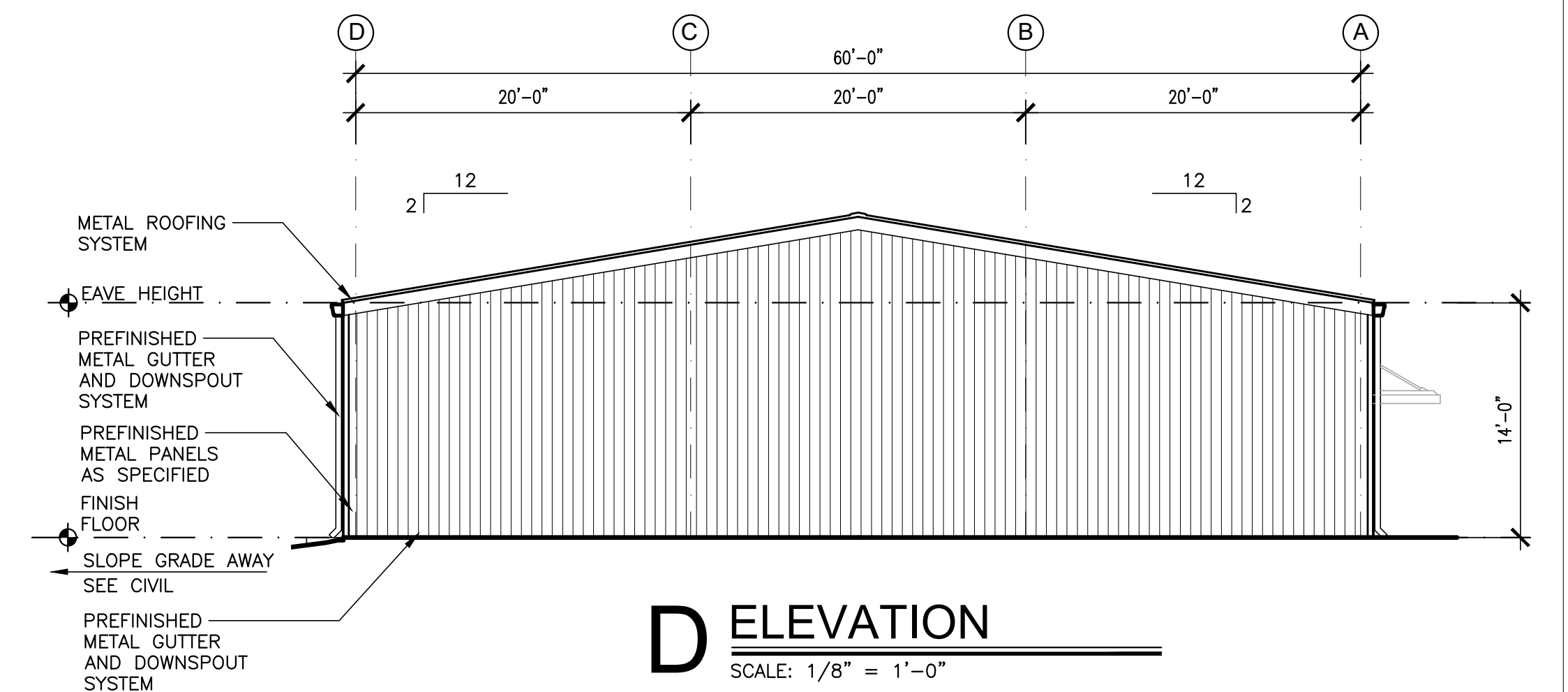
B ELEVATION
SCALE: 1/8" = 1'-0"



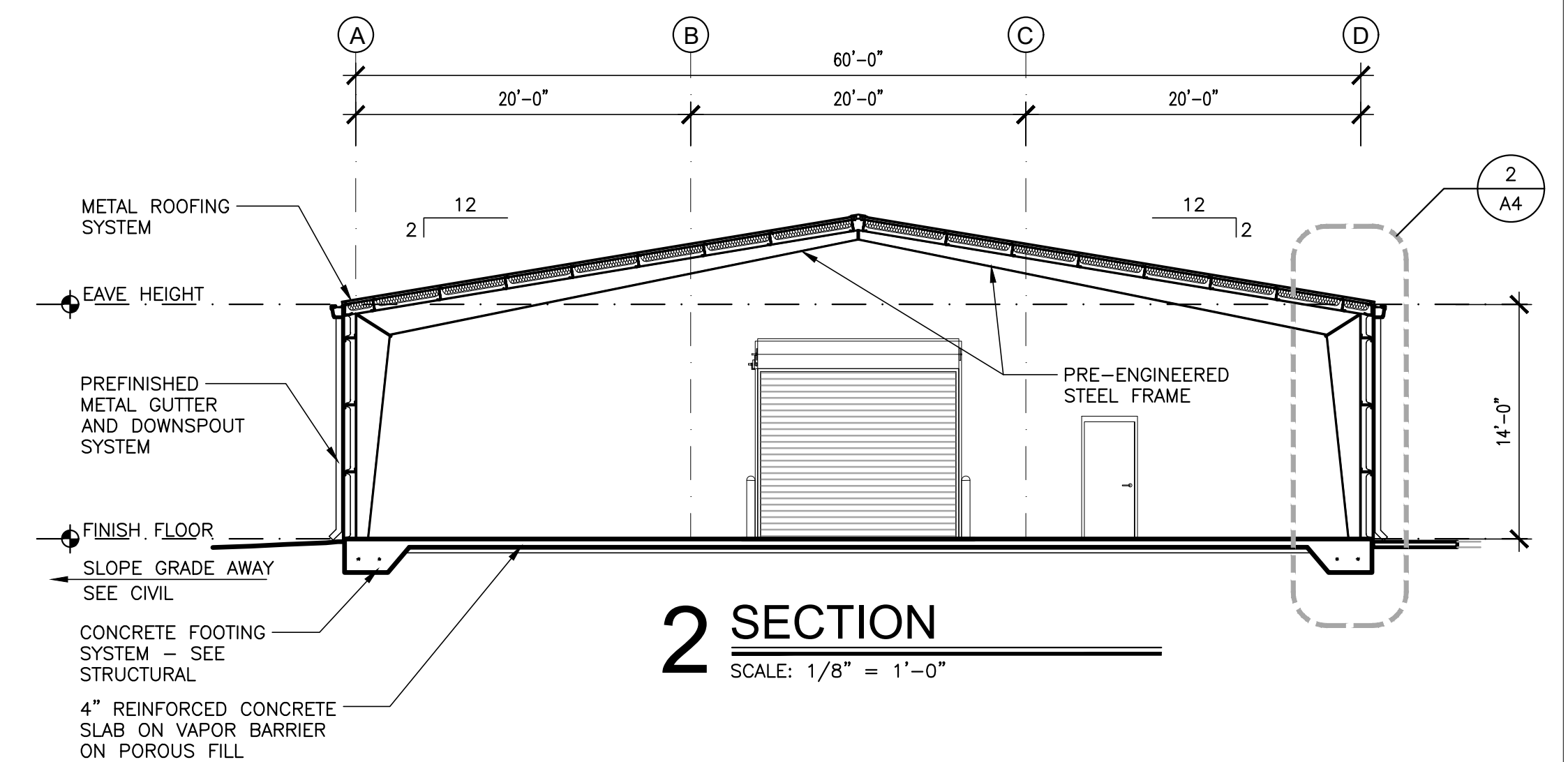
1 SECTION
SCALE: 1/8" = 1'-0"



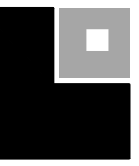
C ELEVATION
SCALE: 1/8" = 1'-0"



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



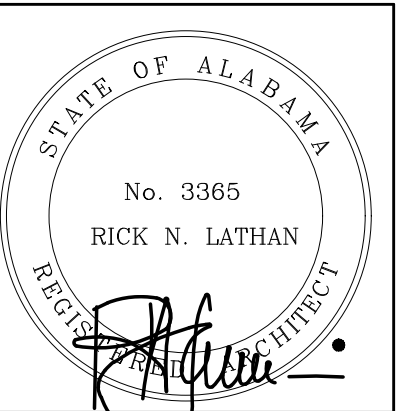
2 SECTION
SCALE: 1/8" = 1'-0"



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SHEET TITLE:
WALL SECTIONS

PROJ. MGR.: S. WILSON
DRAWN: C. BRYANT
DATE: MARCH 10, 2023

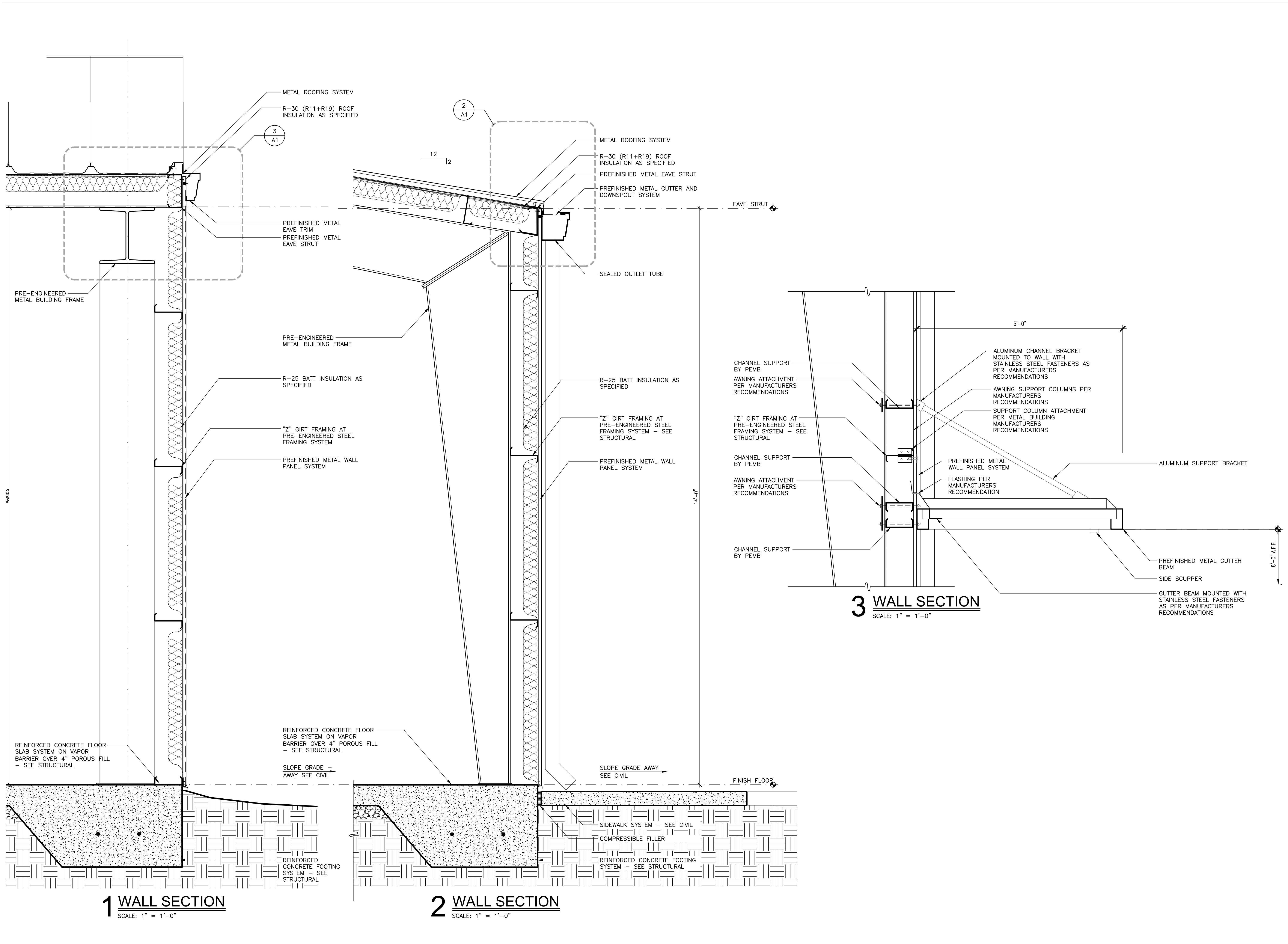
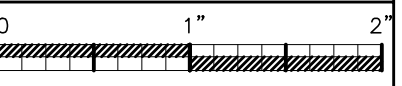
REVISIONS

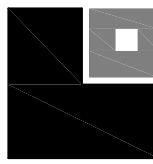
JOB NO. 22-143

SHEET NO:

A4

4 OF 4





GENERAL NOTES

1.0 DESIGN CRITERIA

1.1 CODES AND SPECIFICATIONS:

- A. GENERAL BUILDING CODE:
INTERNATIONAL BUILDING CODE, 2021 EDITION.
- B. CONCRETE:
BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-14)
- C. STRUCTURAL STEEL:
SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF
STEEL CONSTRUCTION (ANSI/AISC 360-16)

1.2 DESIGN GRAVITY LOADS (PSF):

- A. DEAD LOADS:
ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE
ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE GENERAL
CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING
CAPACITY OF THE STRUCTURE.
- B. ROOF LIVE LOADS:
WHERE PERMITTED ROOF LIVE LOADS ARE REDUCED FROM THE BASE VALUE SHOWN
BELOW IN ACCORDANCE WITH IBC SECTION 1607.13
- ROOF-----20
- C. ROOF SNOW LOADS:
GROUND SNOW LOAD (Pg)-----5.0
IMPORTANCE FACTOR (I)-----1.0

1.3 DESIGN LATERAL LOADS:

- A. WIND LOADS:
BASIC WIND SPEED (3-SECOND GUST)-----107MPH
WIND IMPORTANCE FACTOR (I)-----1.0
WIND EXPOSURE CATEGORY-----C
INTERNAL PRESSURE COEFFICIENTS-----+/- 0.18
SEE TYPICAL DETAILS FOR COMPONENT AND CLADDING LOADS
- B. SEISMIC LOADS:
MAPPED SPECTRAL RESPONSE ACCELERATIONS:
Ss-----0.273
S1-----0.100
SITE CLASS-----D
SPECTRAL RESPONSE COEFFICIENTS:
SDS-----0.288
SD1-----0.160
SEISMIC DESIGN CATEGORY-----C

THE FOLLOWING INFORMATION SHALL BE PROVIDED BY THE METAL BUILDING
MANUFACTURER:

BASIC SEISMIC FORCE RESISTING SYSTEM
DESIGN BASE SHEAR
SEISMIC RESPONSE COEFFICIENT, Cs
RESPONSE MODIFICATION FACTOR, R
ANALYSIS PROCEDURE
IMPORTANCE FACTOR, I

2.0 GENERAL CONDITIONS

- 2.1 THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE A PORTION OF THE
CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL
REFERENCE AND COORDINATE WITH OTHER DISCIPLINE'S DRAWINGS. ANY
DISCREPANCIES OR OMISSIONS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT
AND STRUCTURAL DESIGN GROUP.
- 2.2 ALL REPORTS, PLANS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES, AND
OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY STRUCTURAL DESIGN GROUP AS
INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF STRUCTURAL DESIGN GROUP.
STRUCTURAL DESIGN GROUP SHALL RETAIN ALL COMMON LAW, STATUTORY, AND OTHER
RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO.
- 2.3 SUBMIT ONLY THREE COPIES OF SHOP DRAWINGS TO STRUCTURAL DESIGN GROUP UNLESS
OTHERWISE NOTED IN THE CONTRACT DOCUMENTS. TWO PRINTS WILL BE RETURNED.
ALL ADDITIONAL PRINTS REQUIRED BY THE CONTRACTOR ARE THE RESPONSIBILITY OF
THE CONTRACTOR AND SHOULD BE MADE AFTER THE PRINTS ARE RETURNED. IF
ADDITIONAL SETS ARE SUBMITTED, THEY WILL BE RETURNED UNMARKED.
- 2.4 WHERE SHOP DRAWINGS, CALCULATIONS, OR SUBMITTALS ARE CALLED FOR IN THE
PROJECT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) AND ARE NOT PROVIDED BY THE
CONTRACTOR, THE CONTRACTOR ASSUMES TOTAL RESPONSIBILITY FOR THE DESIGN AND
ASSOCIATED WORK.
- 2.5 ENGINEER'S SHOP DRAWING REVIEW IS LIMITED TO REVIEW FOR GENERAL CONFORMANCE
WITH THE DESIGN INTENT REFLECTED IN THE STRUCTURAL PORTION OF THE CONTRACT
DOCUMENTS. THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH
THE DRAWINGS, SPECIFICATIONS OR OTHER PROJECT CONTRACT DOCUMENTS. NO
RESPONSIBILITY IS ASSUMED OR IMPLIED FOR THE CORRECTNESS OF DIMENSIONS OR
DETAILS. THIS REVIEW DOES NOT AUTHORIZE CHANGES TO THE CONTRACT SUM UNLESS
STATED IN A SEPARATE WRITTEN FORM OR CHANGE ORDER. CONTRACTOR SHALL CONFIRM
AND CORRELATE ALL QUANTITIES AND DIMENSIONS, SELECT FABRICATION PROCESSES
AND TECHNIQUES OF CONSTRUCTION, COORDINATE HIS WORK WITH THAT OF OTHER
TRADES, AND PERFORM HIS WORK IN A SAFE AND SATISFACTORY MANNER. CONTRACTOR
SHALL ALSO REFER TO THE REQUIREMENTS OF THE GENERAL AND SUPPLEMENTARY
GENERAL CONDITIONS.
- 2.6 ALL DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS,
UNLESS NOTED.

- 2.7 VERIFY ALL DIMENSIONS AND DETAILS SHOWN ON THESE DRAWINGS. ANY
DISCREPANCIES OR OMISSIONS FOUND SHALL BE REPORTED TO THE ENGINEER AND
OTHER DESIGN PROFESSIONALS AS APPROPRIATE FOR RESOLUTION PRIOR TO
PROCEEDING WITH ANY RELATED WORK.
- 2.8 THESE DRAWINGS DO NOT INCLUDE PROVISIONS TO SATISFY JOB SITE SAFETY
REQUIREMENTS. CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING SAFETY DURING
CONSTRUCTION, AND FOR CONFORMANCE TO ALL APPLICABLE OSHA STANDARDS. JOBSITE
VISITS BY ENGINEER SHALL NOT CONSTITUTE APPROVAL, AWARENESS OR LIABILITY
FOR ANY HAZARDOUS CONDITIONS.
- 2.9 STRUCTURAL DESIGN GROUP IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS AND
METHODS, SAFETY PROCEDURES, CONSTRUCTION SUPERVISION OR SITE SAFETY, AND
DOES NOT HAVE THE AUTHORITY TO STOP WORK FOR THESE ITEMS.
- 2.10 STRUCTURAL OBSERVATION IS VISUAL OBSERVATION OF THE IN PLACE STRUCTURE FOR
GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT THE TIME OF
THE OBSERVATION AND SHALL NOT BE CONSTRUED AS INSPECTION OR APPROVAL OF
CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TESTING
AND SPECIAL INSPECTIONS PER THE REQUIREMENTS IN THE PROJECT MANUAL.
- 2.11 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR BRACING AND SHORING ALL
EXCAVATIONS, DEWATERING OF EXCAVATION FROM EITHER SURFACE WATER, GROUND
WATER OR SEEPAGE, TEMPORARY AND EXISTING STRUCTURES, AND PARTIALLY
COMPLETED PORTIONS OF THE WORK TO ASSURE THE SAFETY OF ANY PERSON COMING IN
CONTACT WITH THE WORK.
- 2.12 OBSERVATION BY THE ENGINEER OF RECORD'S OFFICE DOES NOT REPLACE INSPECTIONS
AND TESTING BY THE TESTING AGENCY OR SPECIAL INSPECTOR.
- 2.13 ALL SUBMITTALS: IF THERE ARE QUESTIONS, CLARIFICATIONS, MODIFICATIONS, OR
ITEMS WHERE INFORMATION, A RESPONSE, OR APPROVAL IS REQUESTED, SUCH ITEMS
SHALL BE WRITTEN ON THE TRANSMITTAL OR COVER SHEET. INDICATING SUCH ITEMS
ON THE SHOP DRAWINGS, WITHIN ANY CALCULATIONS, OR PRODUCT DATA IS NOT
SUFFICIENT. WHERE SUCH ITEMS ARE NOT SPECIFICALLY LISTED ON THE TRANSMITTAL
OR COVER SHEET IN ACCORDANCE WITH THESE GENERAL NOTES AND THE
SPECIFICATIONS, SUCH ITEMS ARE NOT TO BE CONSIDERED APPROVED OR CONSIDERED.
IF A QUESTION, CLARIFICATION, MODIFICATION, OR REQUEST FOR INFORMATION IS
MADE AND NOT SPECIFICALLY RESPONDED TO BY STRUCTURAL DESIGN GROUP, NO
APPROVAL OR CONSENT SHALL BE ASSUMED. THE CONTRACTOR SHALL ASSUME TOTAL
LIABILITY AND RESPONSIBILITY IN ALL CASES WHERE SPECIFIC WRITTEN RESPONSE
FROM STRUCTURAL DESIGN GROUP IS NOT OBTAINED, REGARDLESS OF ANY OTHER
ACTIONS TAKEN BY STRUCTURAL DESIGN GROUP.

3.0 FOUNDATIONS

- 3.1 A GEOTECHNICAL ENGINEER, EMPLOYED BY THE GENERAL CONTRACTOR, SHALL PROVIDE
COMPACTED FILL REQUIREMENTS FOR THE BUILDING PAD AND REVIEW THE FOUNDATION
BEARING SURFACE TO VERIFY THE ASSUMED ALLOWABLE BEARING PRESSURE AND
SEISMIC SITE CLASS NOTED. DO NOT PLACE CONCRETE PRIOR TO GEOTECHNICAL
ENGINEER'S APPROVAL.
- 3.2 ASSUMED MAXIMUM ALLOWABLE BEARING PRESSURES (PSF):
COLUMN FOOTINGS-----2000
CONTINUOUS WALL FOOTINGS-----2000
- 3.3 ALL FOUNDATION BEARING SURFACES SHALL BE REVIEWED BY THE GEOTECHNICAL
ENGINEER PRIOR TO PLACING CONCRETE TO INSURE THEIR COMPLIANCE WITH
PRESSURES NOTED. ALL FOOTING ELEVATIONS ARE ESTIMATED AND MAY BE ADJUSTED
IN THE FIELD BY THE GEOTECHNICAL ENGINEER.
- 3.4 SUBGRADE AND GRANULAR FILL SUPPORTING SLABS ON GRADE SHALL BE AS
RECOMMENDED BY THE GEOTECHNICAL REPORT AND COMPACTED UNDER THE DIRECT
SUPERVISION OF THE GEOTECHNICAL ENGINEER OR HIS APPROVED REPRESENTATIVE.
SEE SPECIFICATIONS FOR VAPOR RETARDER BENEATH SLABS ON GRADE
- 3.5 GRANULAR FILL BENEATH SLABS, UNLESS NOTED OTHERWISE, SHALL BE 4" COMPACTED
#57 STONE.
- 3.6 NO EXCAVATION SHALL BE CLOSER THAN AT A SLOPE OF 2:1 (TWO HORIZONTAL TO ONE
VERTICAL) TO A FOOTING.
- 3.7 PROVIDE A MINIMUM OF 4" OF #57 STONE GRANULAR FILL SUPPORTING SLABS ON
GRADE. THE BUILDING FLOOR SLAB SUBGRADE SHALL BE INSTALLED UNDER THE
DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER OR HIS APPROVED
REPRESENTATIVE. THE SUBGRADE SHALL BE INSTALLED TO A MINIMUM MODULUS OF
SUBGRADE REACTION OF 100PSI. THE GEOTECHNICAL ENGINEER AND CONTRACTOR
SHALL PERFORM EARTHWORK AS REQUIRED TO MEET THIS SPECIFICATION.

4.0 CONCRETE

- 4.1 CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.
- 4.2 CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS (PSI), TYPE OF CONCRETE, MAXIMUM
WATER/CEMENTITIOUS RATIO, AIR CONTENT, SLUMP, AND CONCRETE USE:
- | STRENGTH | TYPE | MAX W/C | AIR | SLUMP | USE |
|----------|--------|---------|------|-------|--------------------------------------|
| 3500 | NORMAL | WT. | 0.53 | ---- | 3" TO 5" FOOTINGS AND INTERIOR SLABS |
- 4.3 REINFORCING BARS: ASTM A615 GRADE 60.
- 4.4 REINFORCING STEEL SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC INDICATION
THAT REINFORCING EXISTS. SEE SCHEDULES, SECTION NOTES AND GENERAL NOTES
FOR ACTUAL REINFORCING REQUIRED.
- 4.5 REINFORCING BAR PLACING ACCESSORIES IN ACCORDANCE WITH ACI MANUAL OF
STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE
ACCESSORIES WITH RUSTPROOF LEGS. WHERE CONCRETE IS SAND-BLASTED OR
BUSH-HAMMERED, PROVIDE ACCESSORIES OF STAINLESS STEEL.

- 4.6 DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315. REINFORCEMENT SHALL NOT
BE WELDED UNLESS NOTED OR APPROVED BY THE ENGINEER.
- 4.7 ALL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.
- 4.8 ALL REINFORCING MARKED "CONTINUOUS" SHALL BE SPLICED WITH CLASS "B" TENSION
LAP SPLICE, UNLESS NOTED.
- 4.9 CONCRETE COVERAGE OF REINFORCEMENT, UNLESS NOTED:
- FOOTINGS-----2" TOP & 3" BOTTOM & SIDES
SLAB FACES NOT EXPOSED TO WEATHER OR EARTH-----3/4"
SLAB FACES EXPOSED TO WEATHER
A. #5 AND LESS-----1-1/2"
B. #6 AND GREATER-----2"

NOTE: SLAB ON GRADE WWR OR REINFORCEMENT EACH WAY SHALL BE 2" CLEAR
FROM TOP OF SLAB. SEE EARTH SUPPORTED SLABS SECTION BELOW.

- 4.10 WELDED WIRE REINFORCEMENT (WWR): ASTM A185. MINIMUM LAP AND EMBEDMENT TO
BE THE GREATER OF ONE CROSS WIRE SPACING PLUS 2 INCHES OR 6 INCHES.

4.11 EARTH SUPPORTED SLABS:

5" THICK, REINFORCED WITH 6X6 W2.9/W2.9 WWR FLAT SHEETS SUPPORTED 2"
CLEAR OF TOP OF SLAB, UNLESS NOTED. WWR TO BE CHAIRED AT 36 INCHES
EACH WAY MINIMUM. SEE FOUNDATION NOTES FOR SUBGRADE REQUIREMENTS.

EARTH SUPPORTED SLABS SHALL BE MOIST CURED FOR A MINIMUM OF SEVEN DAYS.

WHERE CONTROL JOINTS TERMINATE INTO NON-PARALLEL CONTROL JOINTS PROVIDE
2#4 X 6'-0" BARS MID DEPTH OF SLAB PERPENDICULAR TO TERMINAL CONTROL
JOINT.

PROVIDE 2#4 X 6'-0" BARS MID DEPTH OF SLAB AT REENTRANT CORNERS.

5.0 PREFABRICATED METAL BUILDING

- 5.1 METAL BUILDING MANUFACTURER SHALL BE A MEMBER OF MBMA (METAL BUILDING
MANUFACTURERS ASSOCIATION) AND BE AISC CERTIFIED FOR CATEGORY MB.
- 5.2 METAL BUILDING SHALL BE DESIGNED IN ACCORDANCE WITH THE METAL BUILDING
MANUFACTURERS ASSOCIATION'S DESIGN PRACTICES MANUAL 1996. METAL BUILDING
LIVE LOADS AND LATERAL LOADS TO MEET THE GENERAL BUILDING CODE NOTED ABOVE.
- 5.3 ANCHOR ROD SIZE, TOTAL LENGTH, AND LOCATION BY METAL BUILDING SUPPLIER.
FOR ANCHOR ROD EMBEDMENT LENGTH, SEE SHEET S1.1. ANCHOR RODS PURCHASED AND
INSTALLED BY GENERAL CONTRACTOR.
- 5.4 BEFORE FOOTING INSTALLATION, THE ANCHOR ROD EMBEDMENT LENGTHS MUST BE
VERIFIED: THE FOOTING DEPTH SHALL BE THE SCHEDULED DEPTH OR THE ANCHOR ROD
EMBEDMENT LENGTH PLUS 3 INCHES, WHICHEVER IS GREATER.
- 5.5 HORIZONTAL FORCE TRANSFER FROM METAL BUILDING COLUMN BASE TO CONCRETE SHALL
BE BY THE METAL BUILDING SUPPLIER.
- 5.6 METAL BUILDING SUPPLIER TO VERIFY COLUMN LAYOUT. ANY CHANGES MUST BE
SUBMITTED FOR REVIEW OF FOUNDATION DESIGN BEFORE CONSTRUCTION STARTS.
- 5.7 GRAVITY DESIGN LOADS:
LIVE LOAD: 20 PSF (REDUCIBLE AT RIGID FRAME RAFTERS AND COLUMNS ONLY)
- DEAD LOAD: WEIGHT OF STRUCTURE
- COLLATERAL LOAD: 0.5 PSF.
- 5.8 DEFLECTION LIMITS FOR MEMBERS:
PURLINS AND RAFTERS: DL L/360 LL L/360 TL L/240
GIRTS: HORIZONTAL DEFLECTION OF L/600
OVERALL BUILDING DRIFT: H/300, WHERE "H" IS THE BUILDING EAVE HEIGHT.
- 5.9 ROOF PURLINS MUST BE CAPABLE OF RESISTING NET WIND PRESSURES (IN OR OUT)
ASSUMING INTERIOR FLANGE UNBRACED EXCEPT WHERE FLANGE BRACING IS PROVIDED.
- 5.10 THE METAL BUILDING MANUFACTURER WILL BE RESPONSIBLE FOR COMPLETE DESIGN OF
THE BUILDING STRUCTURAL FRAME (INCLUDING LATERAL LOADS) DOWN TO THE
FOUNDATION. THE DESIGN SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER
REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- 5.11 BEFORE FABRICATION AND INSTALLATION OF FOUNDATIONS, METAL BUILDING SUPPLIER
SHALL SUBMIT DESIGN LOADS AND COLUMN REACTIONS TO THE ARCHITECT/ENGINEER
FOR REVIEW. THE CURRENT FOUNDATION DESIGN HAS BEEN BASED ON ASSUMED
VALUES. THE FOOTING SIZES ARE NOT FINAL UNTIL METAL BUILDING REACTIONS
HAVE BEEN PROVIDED AND REVIEWED. DO NOT FABRICATE REINFORCING STEEL OR
INSTALL FOOTINGS PRIOR TO REVIEW OF METAL BUILDING SHOP DRAWINGS BY THIS
OFFICE.
- 5.12 METAL BUILDING DESIGN CALCULATIONS' COVER SHEET AND ALL METAL BUILDING SHOP
DRAWINGS AND ERECTION DRAWINGS SHALL BE SEALED AND SIGNED BY THE
MANUFACTURER'S PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE
PROJECT IS LOCATED.
- 5.13 ALL CONNECTIONS OF STRUCTURAL STEEL MEMBERS TO THE METAL BUILDING SHALL BE
DESIGNED BY THE METAL BUILDING SUPPLIER TO RESIST THE FORCES INDICATED ON
THE DRAWINGS. CALCULATIONS FOR THESE CONNECTIONS STAMPED BY A PROFESSIONAL
ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED SHALL BE
SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW.
- 5.14 ALL COLUMNS SHALL BE ANALYZED AND DESIGNED AS HAVING PINNED BASES.

- 5.15 EXCEPT AS OTHERWISE APPROVED BY ARCHITECT, STRUCTURAL CLEARANCES SHALL BE
MAINTAINED AS CURRENTLY INDICATED IN THE CONTRACT DOCUMENTS.
- 5.16 STANDING SEAM STEEL DECK SHALL NOT BE CONSIDERED AS PROVIDING DIAPHRAGM
RESISTANCE FOR LATERAL WIND LOADS.
- 5.17 METAL BUILDING ENGINEER SHALL VISIT THE JOB SITE AT LEAST ONCE EVERY TWO
WEEKS DURING ERECTION TO OBSERVE INSTALLATION OF METAL BUILDING FRAMING AND
ISSUE REPORTS TO ARCHITECT/ENGINEER.
- 5.18 ALL DEVIATIONS FROM THE CONTRACT DOCUMENTS ARE SUBJECT TO APPROVAL BY THE
ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. ALL DEVIATIONS SHALL BE
EXPRESSLY LISTED AND DEFINED IN THE SHOP DRAWING SUBMITTAL. ARCHITECT AND
STRUCTURAL ENGINEER ARE NOT RESPONSIBLE FOR DISCOVERY OF DEVIATIONS NOT
LISTED, AND APPROVAL OF UNLISTED DEVIATIONS SHALL NOT BE IMPLIED.

6.0 POST-INSTALLED ANCHORS AND REINFORCING

- 6.1 POST-INSTALLED ANCHORS AND/OR REINFORCING SHALL ONLY BE USED WHERE
SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN
APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED
ANCHORS AND/OR REINFORCING. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED
ANCHORS AND/OR REINFORCING TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES
SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN
INSTRUCTIONS. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE
SPECIFIED BELOW, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE
ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A
REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT
THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT
PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE
DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.
CONTACT MANUFACTURER'S REPRESENTATIVE FOR THE INITIAL TRAINING AND
INSTALLATION OF ANCHORS AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY.
CALL SIMPSON STRONG-TIE AT (800) 999-5099.
- A. CONCRETE ANCHORAGE
- MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN
ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193 FOR UNCRACKED AND CRACKED
CONCRETE RECOGNITION. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
a. SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713)
b. SIMPSON STRONG-TIE "STRONG-BOLT" (ICC-ES ESR-1771)
 - ADHESIVE ANCHORS AND ADHESIVE FOR REINFORCING SHALL HAVE BEEN TESTED
AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC308 FOR UNCRACKED
AND CRACKED CONCRETE RECOGNITION. PRE-APPROVED ADHESIVE ANCHORS
INCLUDE:
a. SIMPSON STRONG-TIE "SET-Xp" (ICC-ES ESR-2508)
- B. MASONRY ANCHORAGE
- ANCHORAGE TO HOLLOW CONCRETE MASONRY/UNREINFORCED CLAY BRICK MASONRY
a. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED IN
ACCORDANCE WITH ICC-ES AC106. PRE-APPROVED SCREW ANCHORS INCLUDE:
i. SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056)
b. ADHESIVE ANCHORS WITH SCREEN TUBES SHALL BE TESTED AND QUALIFIED
IN ACCORDANCE WITH ICC-ES AC58 OR AC60, AS APPROPRIATE. THE
APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE
ADHESIVE MANUFACTURER. PRE-APPROVED ADHESIVE ANCHORS WITH SCREEN
TUBES INCLUDE:
i. SIMPSON STRONG-TIE "SET" (ICC-ES ESR-1772)
ii. SIMPSON STRONG-TIE "ACRYLIC-TIE" (ICC-ES ESR-5791)

BUTLER BUILDING FOR SURPLUS

WALLACE DRIVE CAMPUS

GADSDEN STATE COMMUNITY COLLEGE

1001 GEORGE WALLACE DRIVE, GADSDEN, ALABAMA 35903



SHEET TITLE:
GENERAL NOTES

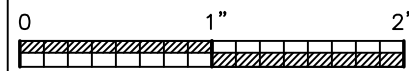
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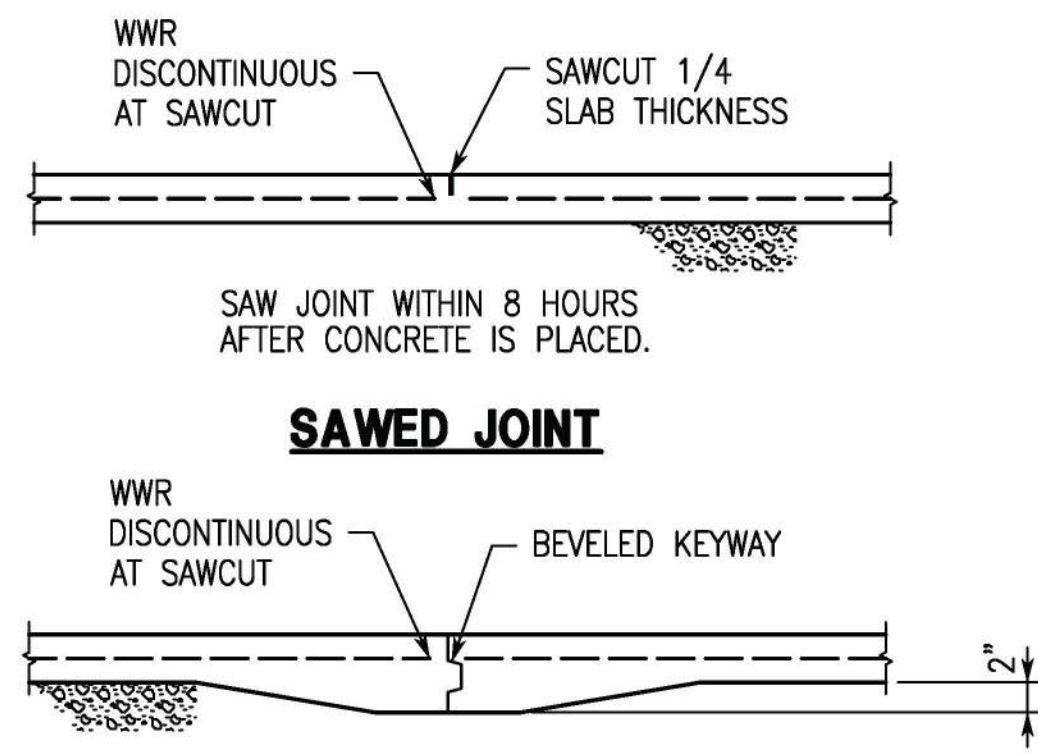
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S1

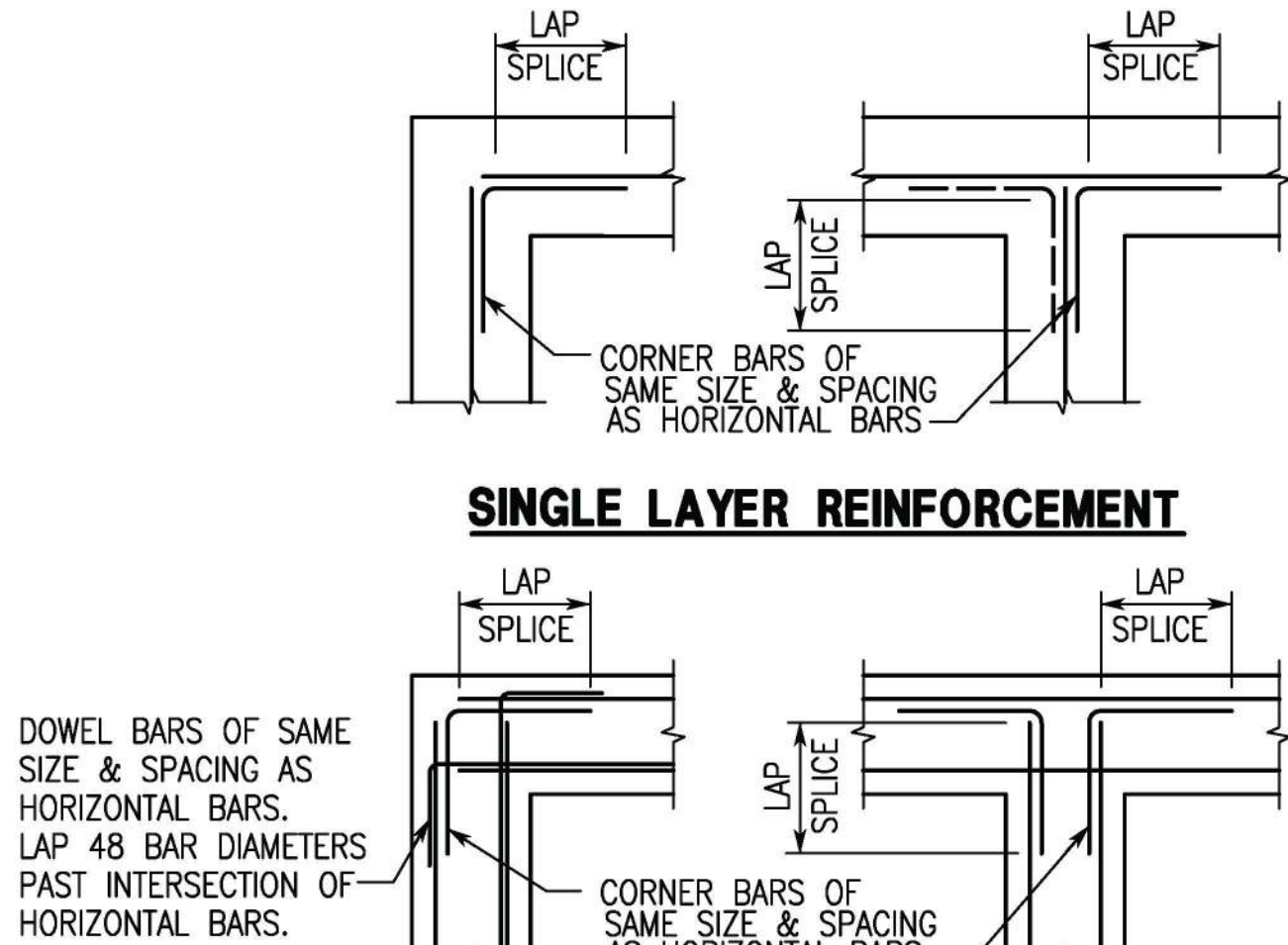
1 OF 3





SLAB CONTROL JOINT DETAILS

TYPICAL
JOINT TYPE IS OPTIONAL
IF NO JOINTS SPECIFIED, PROVIDE
AT 16' ON CENTER EACH WAY



FOUNDATION AND WALL CORNER REINFORCING DETAIL

TYPICAL

ANCHOR ROD EMBEDMENT LENGTHS	
BOLT DIA	MIN EMBEDMENT
3/4"	9"
1"	12"
1 1/4"	15"
1 1/2"	18"

NOTE:
ANCHOR ROD SIZE AND MATERIAL TO BE PROVIDED BY
METAL BUILDING MANUFACTURER. THE ABOVE TABLE IS
MINIMUM EMBEDMENT TO FULLY DEVELOP ASTM F1554
GRADE 36 HEADED ANCHOR RODS. FINAL ANCHOR ROD
EMBEDMENT DEPTH SHALL BE DETERMINED BY STRUCTURAL
ENGINEER AFTER SUBMITTAL OF COLUMN BASE AND ANCHOR
ROD INFORMATION FROM METAL BUILDING MANUFACTURER
PRIOR TO MATERIAL ORDER AND FABRICATION.

TENSION LAP SPLICE LENGTHS								
BAR SIZE	f _C = 3000 PSI				f _C = 4000 PSI			
	TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
	A	B	A	B	A	B	A	B
#3	22"	28"	17"	22"	19"	24"	15"	19"
#4	29"	37"	22"	29"	25"	32"	19"	25"
#5	36"	47"	28"	36"	31"	40"	24"	31"
#6	43"	56"	33"	43"	37"	48"	29"	37"
#7	63"	81"	48"	63"	54"	70"	42"	54"
#8	72"	93"	55"	72"	62"	80"	48"	62"
#9	81"	105"	62"	81"	70"	91"	54"	70"
#10	91"	118"	70"	91"	79"	102"	61"	79"
#11	101"	131"	78"	101"	87"	113"	67"	87"

TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE
THAN 12" OF CONCRETE CAST BELOW THE REINFORCEMENT.

METAL BUILDING COLUMN REACTIONS (KIPS)										
COLUMN DESIGNATION	DEAD		COLLATERAL		ROOF LIVE		WIND 1		WIND 2	
	H	V	H	V	H	V	H	V	H	V
B1,B6,C1,C6	-	-	-	-	-	-	+5.2,-5.2	-	-	-
A1,A6,D1,D6	3.4	6.1	2.3	4.0	4.5	8.1	+7.3,-7.3	-8.6	+3.5,-3.5	-6.9
A2,A3,A4,A5,D2,D3,D4,D5	6.7	12.1	4.5	8.1	9.0	16.1	+11.8,-11.8	-12.4	+6.9,-6.9	-12.7

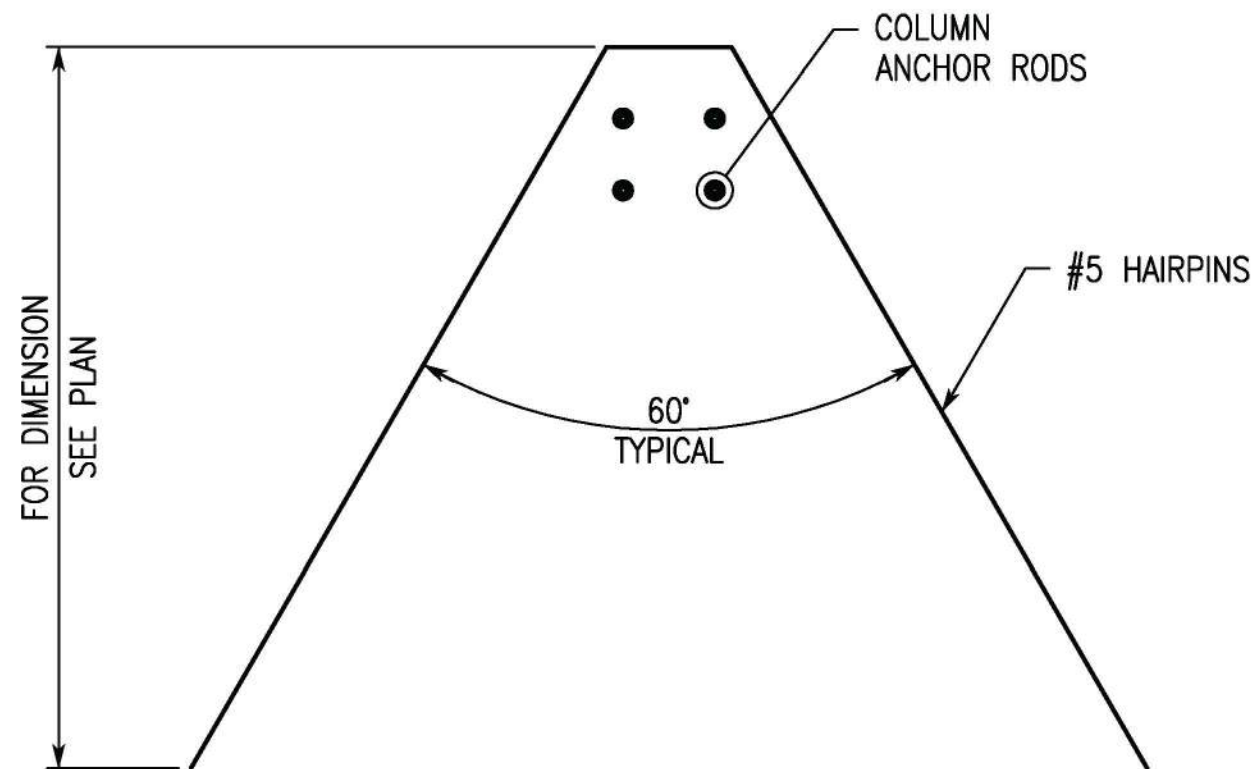
NOTES:

- BEFORE INSTALLATION OF FOUNDATIONS, METAL BUILDINGS SUPPLIER SHALL SUBMIT DESIGN LOADS AND COLUMN REACTIONS TO THE ARCHITECT/ENGINEER FOR REVIEW. THE CURRENT FOUNDATION DESIGN HAS BEEN BASED ON PRELIMINARY BUILDING REACTIONS DETERMINED BY STRUCTURAL DESIGN GROUP. THIS MAY REQUIRE ADJUSTMENTS TO THE FOUNDATIONS SIZES AFTER REVIEW OF THE FINAL METAL BUILDING COLUMN REACTIONS.
- POSITIVE AND NEGATIVE AXIAL FORCES (V) INDICATE FORCES ACTING TO AND AWAY FROM THE STRUCTURE, RESPECTIVELY. POSITIVE AND NEGATIVE SHEAR (H) INDICATES FORCES ACTING TOWARDS AND AWAY FROM THE CENTER OF THE BUILDING, RESPECTIVELY.
- WIND 1 INDICATES MWFRS WIND SHEAR AND UPLIFT. WIND 2 INDICATES WIND C&C UPLIFT WIND LOADS ONLY.

COMPONENTS AND CLADDING WIND LOADS FOR WALLS (PSF)				
107 MPH VELOCITY (3-SEC. GUST)	EFFECTIVE WIND AREA (FT ²)	ZONES 4 & 5	ZONES 4 (Int.)	ZONES 5 (Edge)
	10	25.5	-27.6	-34.1
	20	24.3	-26.5	-31.9
	50	22.8	-25.0	-28.8
	100	21.7	-23.8	-26.5
	200	20.5	-22.6	-24.2
	500	19.0	-21.2	-21.2

NOTES:

- WIDTH OF EDGE STRIP 'a' = 6'-0".
- VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-16 STANDARD TABLE 30.3-1. VALUES SHOWN ARE ULTIMATE.
- PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES.
- EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD THE SPAN LENGTH.
- WIND PRESSURES IN THESE TABLES SHALL BE MULTIPLIED BY 0.3 TO OBTAIN NOMINAL WIND PRESSURES.



NOTE: HAIRPIN TO BE ONE CONTINUOUS PIECE

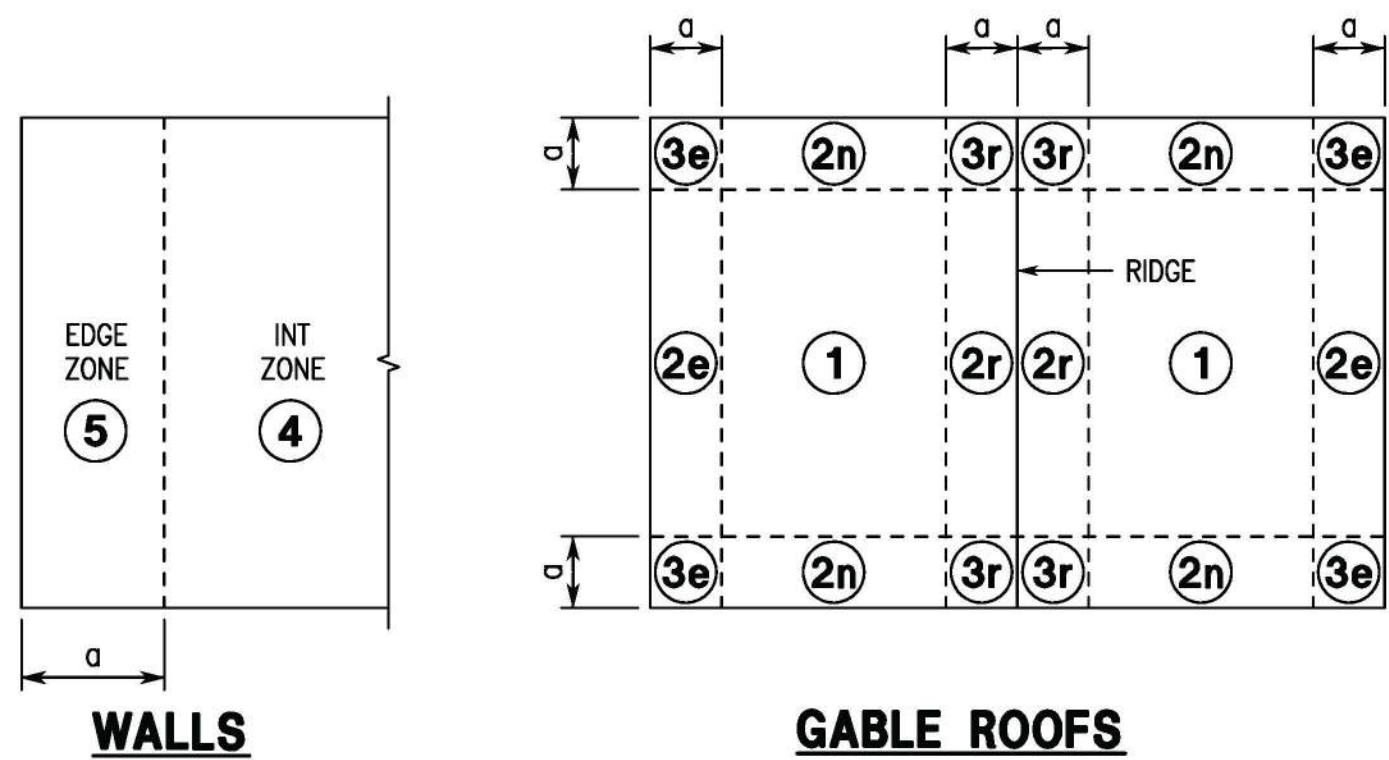
COLUMN HAIRPIN DETAIL

TYPICAL

COMPONENTS AND CLADDING WIND LOADS FOR ROOF (PSF)									
107 MPH VELOCITY (3-SEC. GUST)	EFFECTIVE WIND AREA (FT ²)	ROOF				OVERHANG			
		Positive Max. Net Pressure 'p' (PSF)	Zone 1 & 2e (Int.)	Zone 2n, 2r, & 3e (Edge)	Zone 3r (Corner)	Zone 1 & 2e (Int.) - Max. Net Pressure 'p' (PSF)	Zone 2n & 2r (Edge) - Max. Net Pressure 'p' (PSF)	Zone 3e (Corner) - Max. Net Pressure 'p' (PSF)	Zone 3r (Corner) - Max. Net Pressure 'p' (PSF)
	10	16.0	-47.1	-68.7	-81.6	-54.0	-75.6	-88.6	-101.5
	20	16.0	-47.1	-59.4	-69.9	-54.0	-68.6	-76.5	-85.9
	50	16.0	-28.6	-47.1	-54.5	-41.7	-59.4	-60.5	-65.3
	100	16.0	-16.0	-37.8	-42.8	-32.4	-52.4	-48.4	-49.7
	200	16.0	-16.0	-28.5	-42.8	-32.4	-45.4	-36.3	-49.7
	500	16.0	-16.0	-25.5	-42.8	-32.4	-43.2	-32.4	-49.7

NOTES:

- WIDTH OF EDGE STRIP 'a' = 6'-0".
- VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-16 STANDARD TABLE 30.3-1. VALUES SHOWN ARE ULTIMATE.
- PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES.
- EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD THE SPAN LENGTH.
- METAL BUILDING MANUFACTURER RESPONSIBLE FOR CALCULATING WIND UPLIFT PRESSURES AND MINIMUM DEAD LOADS FOR METAL BUILDING COMPONENTS AND CLADDING.
- WIND PRESSURES IN THESE TABLES SHALL BE MULTIPLIED BY 0.3 TO OBTAIN NOMINAL WIND PRESSURES.



WALL AND ROOF WIND PRESSURE ZONE DIAGRAMS

TYPICAL

SHEET TITLE:
TYPICAL DETAILS

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DATE: MARCH 10, 2023
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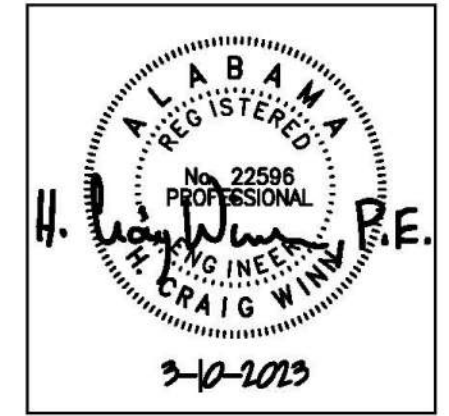
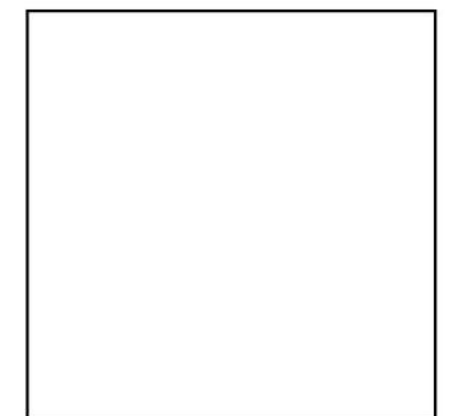
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S2

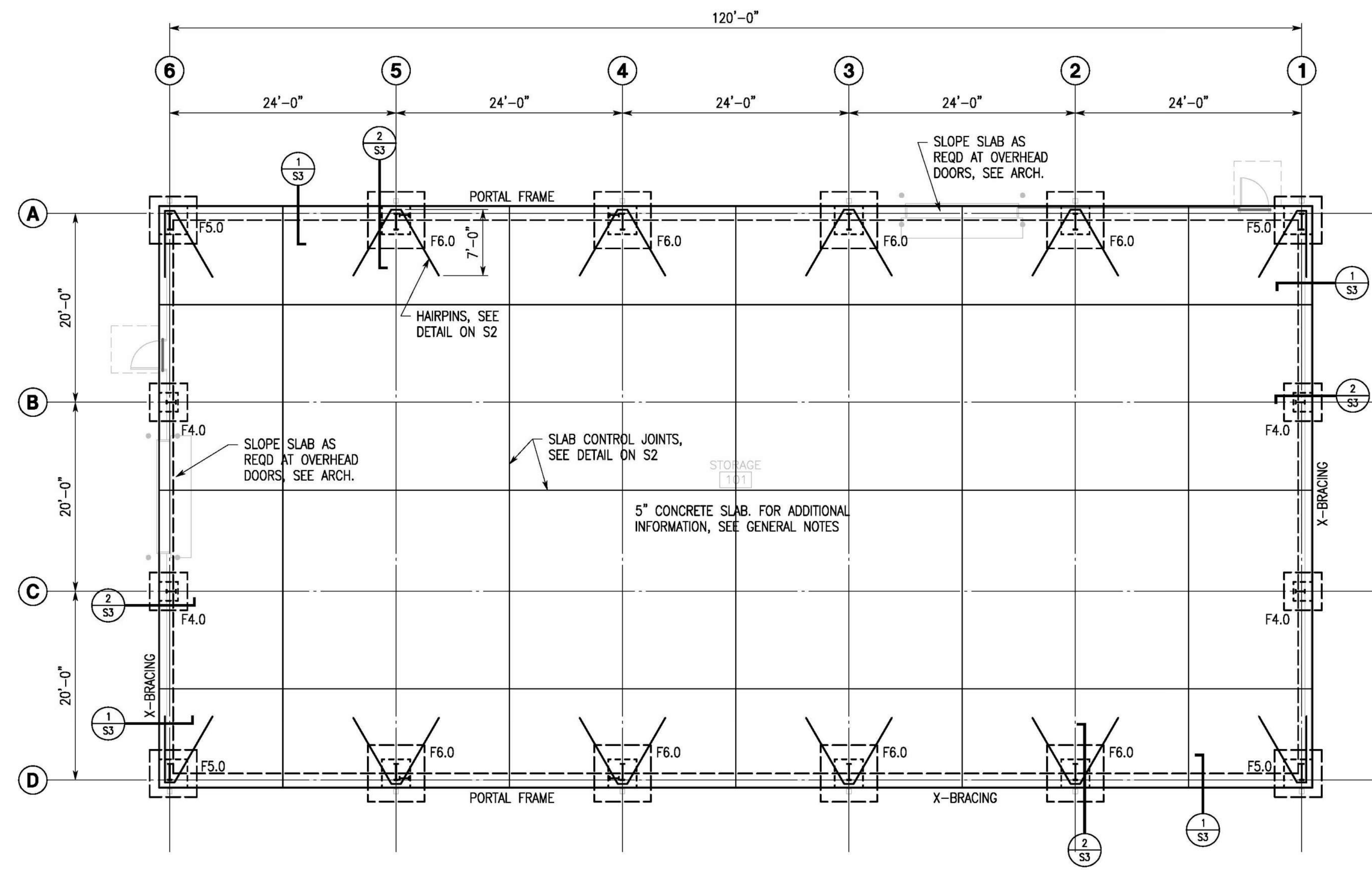
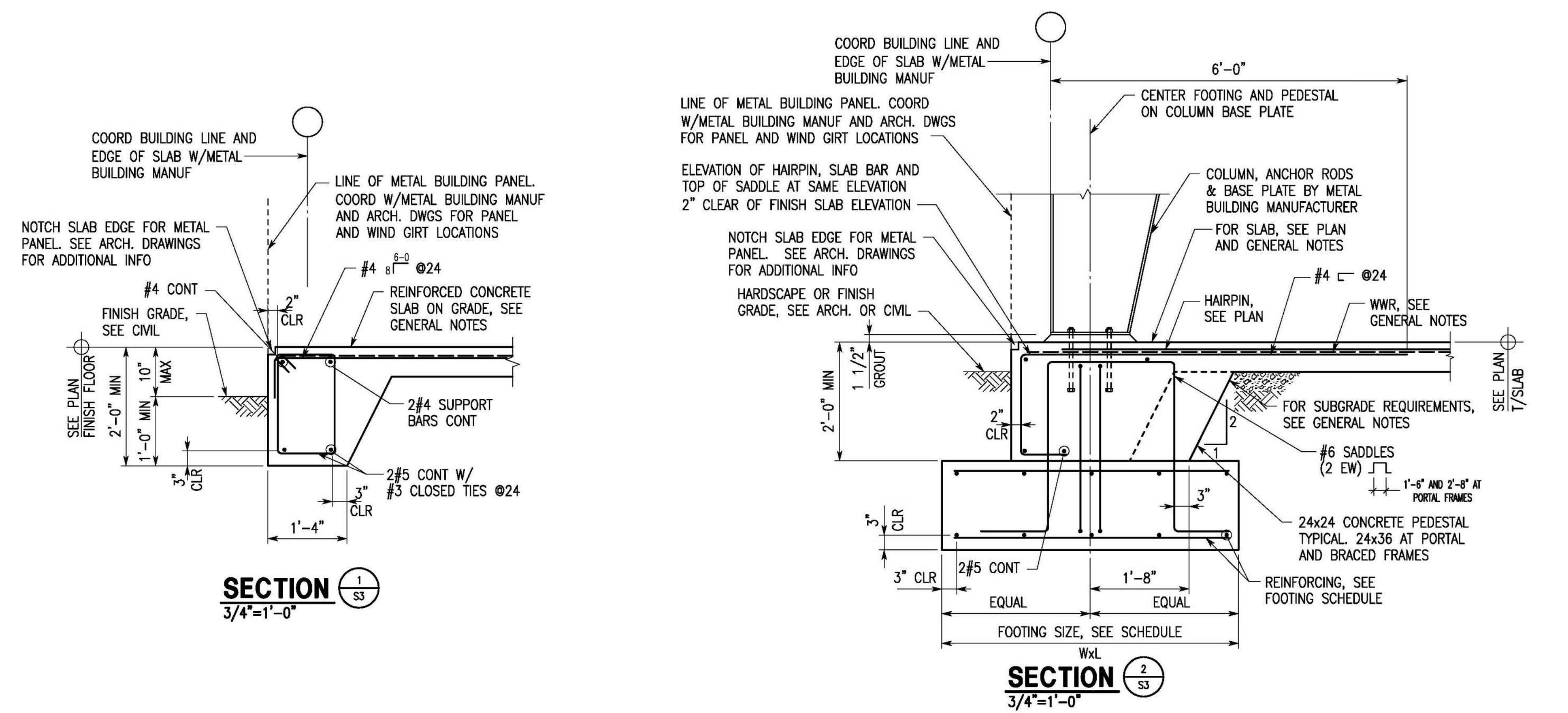
2 OF 3

0 1" 2"



SHEET TITLE:
FOUNDATION PLAN
AND SECTIONS

PROJ. MGR.:	HCW
DRAWN:	ABS
DATE:	MARCH 10, 2023
REVISIONS	



FOUNDATION PLAN

- 1/8"=1'-0"
- FINISH FLOOR (TOP OF SLAB) ELEVATION 0'-0", UNLESS NOTED.
 - TOP OF FOOTING ELEVATION IS -2'-0" BELOW FINISH FLOOR, UNLESS NOTED.
 - FOR GENERAL NOTES SEE SHEET S1.
 - FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS.
 - FOR SLAB RECESS SIZE AND LOCATION, SEE ARCHITECTURAL DRAWINGS.
 - GENERAL CONTRACTOR SHALL CUT SAWN JOINTS NO MORE THAN 8 HOURS AFTER STEEL TROWEL FINISH ON SLAB.
 - GENERAL CONTRACTOR TO COORDINATE ALL DRAWINGS WITH THE METAL BUILDING SUPPLIER BEFORE FOUNDATION INSTALLATION BEGINS. SEE GENERAL NOTES ON S1 FOR ADDITIONAL INFORMATION.
 - GENERAL CONTRACTOR SHALL OBTAIN AND LAYOUT COLUMN ANCHOR RODS FROM ANCHOR ROD SETTING PLAN PROVIDED BY THE METAL BUILDING MANUFACTURER.
 - FOR PRE-FABRICATED METAL BUILDING, SEE GENERAL NOTES ON S1.
 - "F#" INDICATES CONCRETE SPREAD FOOTING. SEE SCHEDULE ON THIS SHEET FOR SIZE AND REINFORCING.
 - COORDINATE ALL BUILDING OFFSETS AND SLAB EDGE WITH ARCHITECTURAL DRAWINGS.

FOOTING SCHEDULE				
FOOTING DESIGNATION		F4.0	F5.0	F6.0
FOOTING	SIZE (LxW)	4'-0"x4'-0"	5'-0"x5'-0"	6'-0"x6'-0"
	DEPTH (D)	1'-6"	1'-6"	1'-6"
	REINF EW (BOT)	4#5	5#5	6#6
	NOTES	1	1	1

NOTES:
1. PROVIDE SCHEDULED REINFORCING AT TOP AND BOTTOM OF FOOTING.

Dewberry

2 Riverchase Office Plaza

Suite 205

Hoover, AL 35244

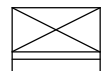
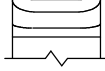
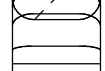
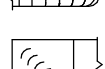
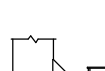
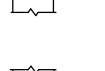
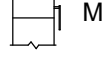
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Project Number : 50162721

LATHAN ARCHITECTS

DUCTWORK LEGEND

(CFM) S	SUPPLY DIFFUSER
(CFM) R	RETURN GRILLE
(CFM) E	EXHAUST GRILLE
(CFM) T	TRANSFER AIR GRILLE
(CFM) SR	SIDEWALL REGISTER
ø	ROUND DUCT SYMBOL
W X H	RECTANGULAR DUCT (WIDTH X HEIGHT)
	RECTANGULAR SUPPLY DUCT TURNING UP
	RECTANGULAR SUPPLY AIR DUCT TURNING DOWN
	RECTANGULAR RETURN AIR OR EXHAUST DUCT TURNING UP
	RECTANGULAR RETURN AIR OR EXHAUST DUCT TURNING DOWN
	FLAT OVAL TURNING UP.
	FLAT OVAL TURNING DOWN.
	ROUND DUCT TURNING DOWN
	ROUND DUCT TURNING UP
	MAXIMUM 5' FLEXIBLE DUCT ALL BRANCH DUCTS
	RECTANGULAR 90° ELBOW WITH TURNING VANES FOR SUPPLY.
	RISE OR DROP IN DUCT
	RECTANGULAR BRANCH OFF OF RECTANGULAR DUCT WITH MANUAL DAMPER
	CONICAL SPIN-IN WITH MANUAL DAMPER
	MANUAL DAMPER
①	PROGRAMMABLE THERMOSTAT

HVAC ABBREVIATIONS

A	AMPS
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
AMB.	AMBIENT
ARCH.	ARCHITECTURAL
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BTUH	BRITISH THERMAL UNIT PER HOUR
CFM	CUBIC FEET PER MINUTE
DB	DRY BULB
DN.	DOWN
°F	DEGREES FAHRENHEIT
ΔT	CHANGE IN PRESSURE
DIA.	DIAMETER
EA	EXHAUST AIR
ENT.	ENTERING
EAT	ENTERING AIR TEMPERATURE
EMG	EXPANDED METAL GRILLE
EWT	EXTERNAL WATER TEMPERATURE
E.S.P.	EXTERNAL STATIC PRESSURE
EX.	EXISTING
EXT.	EXTERNAL
FPM	FEET PER MINUTE
FT.	FEET
F.V.	FACE VELOCITY
GAL.	GALLONS
GPM	GALLONS PER MINUTE
H	HEIGHT
HP	HORSEPOWER
IN.	INCHES
I.D.	INSIDE DIAMETER
KW	1000 WATTS
L	LENGTH
LBS.	POUNDS
LRA	LOCKED ROTOR AMPS
LVG.	LEAVING
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MAX.	MAXIMUM
MAT	MIXED AIR TEMPERATURE
MBH	1000 BTUH
MCA	MINIMUM CIRCUIT AMPACITY
MIN.	MINIMUM
MOCP	MAXIMUM OVER CURRENT PROTECTION
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
NPLV	NON-STAND PART LOAD VALUE
OSA	OUTSIDE AIR
O.D.	OUTSIDE DIAMETER
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ATMOSPHERIC
PSIG	PSI GAUGE
RA	RETURN AIR
RAT	RETURN AIR TEMPERATURE
RH	RELATIVE HUMIDITY
RLA	RATED LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
T.S.P.	TOTAL STATIC PRESSURE
TD	TRANSFER DUCT
TOP OF DUCT	TOP OF DUCT
UN.O.	UNLESS NOTED OTHERWISE
V	VOLUME
V/Ø/Hz	VOLTS/PHASE/HERTZ
W.G.	WATER GAGE
W	WIDTH
WB	WET BULB

HVAC GENERAL NOTES

1. MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND SUBJECT TO REQUIREMENTS OF ARCHITECTURAL DRAWINGS AND CONDITIONS EXISTING IN THE FIELD. MECHANICAL DRAWINGS INDICATE GENERALLY THE LOCATION OF COMPONENTS AND ARE NOT INTENDED TO SHOW ALL FITTINGS OR ALL DETAILS OF THE WORK TO BE PERFORMED.

2. FOLLOW THE DRAWINGS CLOSELY, COORDINATE DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS. DO NOT SCALE MECHANICAL DRAWINGS FOR LOCATIONS OF SYSTEM COMPONENTS.

3. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.

4. MAKE NO CHANGES WITHOUT THE ARCHITECT'S WRITTEN PERMISSION. IN CASE OF DOUBT, OBTAIN ARCHITECT'S DECISION BEFORE PROCEEDING WITH WORK. FAILURE TO FOLLOW THIS INSTRUCTION SHALL MAKE THE CONTRACTOR LIABLE FOR DAMAGE TO OTHER WORK AND RESPONSIBLE FOR REMOVING AND REPAIRING DEFECTIVE OR MISLOCATED WORK IN PROPER MANNER.

5. DO NOT SCALE DRAWINGS TO LOCATE DIFFUSERS AND EQUIPMENT. COORDINATE WITH NEW AND EXISTING LIGHTING, ELECTRICAL CONDUIT, AND ALL EXISTING FIELD CONDITIONS.

6. PRIOR TO PREPARING SUBMITTALS, VERIFY ALL EQUIPMENT VOLTAGES WITH ELECTRICAL DRAWINGS AND ELECTRICAL CONTRACTOR AND REPORT ANY INCONSISTENCIES TO THE ARCHITECT PRIOR TO ORDERING EQUIPMENT. ANY FAILURE TO DO SO WILL MAKE THE MECHANICAL CONTRACTOR RESPONSIBLE FOR ANY EQUIPMENT ORDERED WITH THE INCORRECT VOLTAGE.

7. PROTECT MECHANICAL EQUIPMENT FROM DAMAGE DURING CONSTRUCTION. WHEN INSTALLATION IS COMPLETE, CLEAN EQUIPMENT AS REQUIRED AND PROVIDE ALL NEW FILTERS.

8. INSTALL ALL EQUIPMENT TO PROVIDE NORMAL SERVICE ACCESS TO ALL COMPONENTS. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. IF MANUFACTURER'S RECOMMENDATIONS CONFLICT WITH CONTRACT DOCUMENTS, OBTAIN ARCHITECT'S DECISION BEFORE PROCEEDING.

9. FURNISH ACCESS DOORS FOR VALVES, FIRE DAMPERS, DAMPERS, CONTROLS, AIR VENTS, TRAP CLEAN OUTS, AND OTHER ITEMS LOCATED ABOVE NON-LIFTOUT CEILINGS OR BEHIND PARTITIONS OR WALLS. PROVIDE FIRE DAMPERS IN DUCTWORK, GRILLES, AND REGISTERS WITH FIRE RATING EQUAL TO RATING OF WALL OR CEILING. ALL FIRE DAMPERS MAY OR MAY NOT BE SHOWN ON MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL FIRE RATED WALL AND CEILING LOCATIONS AND RATINGS WITH ARCHITECTURAL DRAWINGS.

10. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES AND STANDARDS (SEE SPECIFICATIONS).

11. MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR EXACT QUANTITY AND LOCATIONS OF 120 V CONTROLS POWER TO NECESSARY CONTROL PANELS.

12. MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR EXACT QUANTITY AND LOCATIONS OF 120 V CONTROL POWER FOR VAV TERMINAL UNIT CONTROLS, AUTOMATIC CONTROL VALVES, AND AUTOMATIC DAMPER ACTUATORS.

13. COORDINATE EXACT LOCATION OF ALL WALL MOUNTED DEVICES (THERMOSTATS, HUMIDITY SENSORS, ETC.) WITH ARCHITECT PRIOR TO ROUGH IN. ALL WALL MOUNTED DEVICES SHALL BE INSTALLED 48" A.F.F. TO THE CENTERLINE OF THE DEVICE.

14. COORDINATE EXACT LOCATION ON WALL OF ALL WALL MOUNTED SUPPLY AND RETURN GRILLES/REGISTERS WITH ARCHITECT. WALL MOUNTED SUPPLY AND RETURN GRILLES/REGISTERS SHALL BE PAINTED BY OTHERS.

15. COORDINATE ALL DUCT DETECTORS, LOW VOLTAGE WIRING TO ASSOCIATED PROGRAMMING WITH FIRE ALARM CONTRACTOR TO PROVIDE A FULLY FUNCTIONING SYSTEM. VERIFY PROPER OPERATION OF ALL EXISTING DUST SMOKE DETECTORS. REPLACE AS REQUIRED. UPON SENSING SMOKE THE DUCT DETECTOR SHALL SHUT DOWN THE RESPECTIVE UNIT.

HVAC SPECIFICATIONS

1) ALL DUCTWORK TO BE GALVANIZED SHEET METAL CONSTRUCTION ACCORDING TO CURRENT ADDITION OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS. SIZES SHOWN ARE INSIDE INSULATION.

A. LOW PRESSURE: SUPPLY, RETURN, AND OSA : 2" PRESSURE CLASS, "B" SEAL.

B. EXHAUST: 2 PRESSURE CLASS, "B" SEAL.

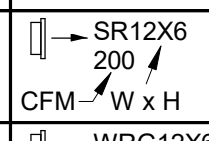
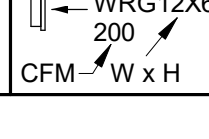
2) ALL EXPOSED SUPPLY AND ALL RETURN DUCTWORK SHALL BE INTERNALLY INSULATED WITH 2" THICK (RETURN) AND 2" THICK (SUPPLY) GLASS FIBER ACOUSTICAL/THERMAL INSULATION COMPLYING WITH NFPA 90A AND UL 181. MINIMUM DENSITY 1-1/2 LB/CU. FT. DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS.

3) AIR DEVICES SHALL BE TITUS, PRICE, OR NAILOR. SEE AIR DEVICE LEGEND.

4) HVAC DRAIN PIPING: SCHEDULE 40 PVC. PROVIDE DRAIN TRAPS FOR AC UNITS. SIZE TRAPS AS REQUIRED TO DRAIN UNDER OPERATING CONDITIONS. SEE TRAP DETAIL ON DRAWINGS.

5) TEST AND BALANCE: AFTER SYSTEMS HAVE BEEN INSTALLED COMPLETE, ADJUST AND TEST SYSTEMS FOR PROPER OPERATION, AIR DISTRIBUTION, TEMPERATURES, AND CORRECT ALL NOISE OR VIBRATION CONDITIONS. TEST AND BALANCE EACH DIFFUSER AND GRILLE TO WITHIN 10 PERCENT OF DESIGN REQUIREMENTS. ALL HVAC AIR AND WATER BALANCE WORK SHALL BE PERFORMED BY AN INDEPENDENT TEST AND BALANCING AGENCY SPECIALIZING IN TESTING AND BALANCING OF AIR CONDITIONING SYSTEMS. THE AGENCY SELECTED SHALL BE AN AABC OR NEBB MEMBER. ALL INSTRUMENTS USED FOR TESTING AND BALANCING MUST HAVE BEEN CALIBRATED WITHIN 6 MONTHS AND CHECKED FOR ACCURACY PRIOR TO START OF WORK. PERFORM ALL TESTS AS REQUIRED BY LOCAL CODES.

6) MANUAL BALANCING DAMPERS: COMPLY WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS, FIGURE 2-12 AND 2-13. EQUIP ALL DAMPERS WITH LOCKING QUADRANTS AND END BEARINGS. SAW-MARK ENDS OF DAMPER RODS PARALLEL TO BLADES. END BEARINGS AND QUADRANTS SHALL HAVE AIR TIGHT DUCT CONNECTIONS AND SHAFT SEALS, DURO-DYNE OR EQUAL.

AIR DEVICE LEGEND				
MARK	EXAMPLE	DESCRIPTION	SIZE	BASIS OF DESIGN
SR		SIDEWALL SUPPLY REGISTER.	SIZE (WxH) IN INCHES & CFM SHOWN.	TITUS 272FL
WRG / WTG		WALL RETURN GRILLE / WALL TRANSFER GRILLE.	SIZE (WxH) IN INCHES & CFM SHOWN.	TITUS 350FL
NOTES: 1. SEE SPECIFICATIONS FOR FINISH AND CONSTRUCTION MATERIAL FOR EACH AIR DEVICE. 2. COORDINATE WITH ARCHITECT'S CEILING PLAN FOR LAY-IN OR SURFACE MOUNTING OF CEILING MOUNTED AIR DEVICES. 3. COORDINATE LOCATIONS OF CEILING MOUNTED AIR DEVICES WITH LIGHT FIXTURES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES. DO NOT SCALE MECHANICAL DRAWINGS FOR LOCATIONS.				

PACKAGED UNITS

TYPE: SINGLE-ZONE, PACKAGED VAV UNIT WITH HORIZONTAL FLOW DUCT CONNECTION, DX HEAT PUMP, AND DIRECT DRIVE FAN.																			
NOTES: 1. COOLING CAPACITY IS NET CAPACITY @ 95°F AMBIENT. 2. UNIT SHALL BE ASHRAE 90.1 - 2013 COMPLIANT. 3. MAX FACE VELOCITY = 500 FPM. 4. REFRIGERANT: R-410A. 5. SINGLE POINT POWER CONNECTION. 6. HP HEATING CAPACITY BASED ON 70°F INDOOR/21.5°F AMBIENT. 7. PROVIDE 5-YEAR COMPRESSOR PARTS AND LABOR WARRANTY. 8. PROVIDE 1-YEAR PARTS AND LABOR WARRANTY. 9. PROVIDE FACTORY ON-BOARD CONTROLLER. 10. PROVIDE LOW-AMBIENT CONTROLS.																			
ACCESSORIES: 1. ANTI – SHORT CYCLE TIMER 2. 2" THICK THROWAWAY FILTER, MERV 13. 3. HORIZONTAL DISCHARGE CONFIGURATION 4. OUTSIDE AIR DAMPER WITH MOTORIZED DAMPER. 5. HINGED ACCESS DOORS. 6. HEAD PRESSURE CONTROL TO 10°F AMBIENT. 7. 0-100% ECONOMIZER W/ DRY-BULB CONTROLS.																			
MARK	SUPPLY FAN		OSA (CFM)	ENTERING AIR TEMP.		DX COOLING CAPACITY			HEATING CAPACITY (MBH)	AUX. HEATING CAPACITY	ELECTRICAL				IEER / EER	WEIGHT (LBS)	ACCESSORIES	BASIS OF DESIGN	
	CFM	"W.G. E.S.P.		D.B. (°F)	W.B. (°F)	TOTAL (MBH)	SENS (MBH)	NOM. TONS			V	PH	Hz	MCA	MOCP				
AHU-1	3,500	1.0	440	77	63	110.3	90.4	10	112.0	20 KW	208	3	60	108 A	125 A	14.1 / 11.0	1,000	1.2,3,4,5,6,7	RHEEM RHPD
AHU-2	3,500	1.0	440	77	63	110.3	90.4	10	112.0	20 KW	208	3	60	108 A	125 A	14.1 / 11.0	1,000	1.2,3,4,5,6,7	RHEEM RHPD

NOTE:
ALL HVAC IS TO BE OWNER FURNISHED AND OWNER INSTALLED.

BUTLER BUILDING FOR SURPLUS
WALLACE DRIVE CAMPUS
GADSDEN STATE COMMUNITY COLLEGE
1001 GEORGE WALLACE DRIVE, GADSDEN, ALABAMA 35903

SHEET TITLE:
MECHANICAL LEGEND AND SCHEDULES

PROJ. MGR.: CLR
DRAWN: LMR

DATE: 04/14/2023
REVISIONS

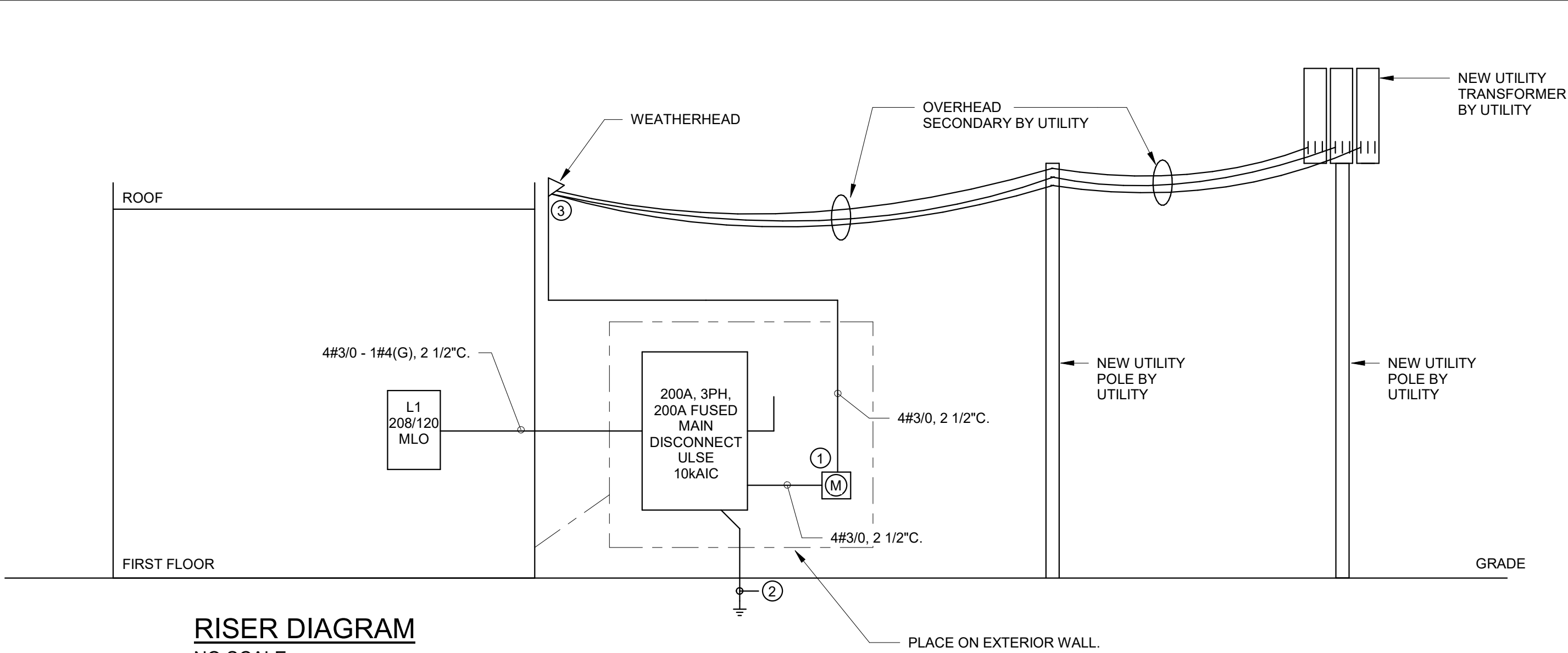
JOB NO. 22-143

SHEET NO:

M1

1 OF 3

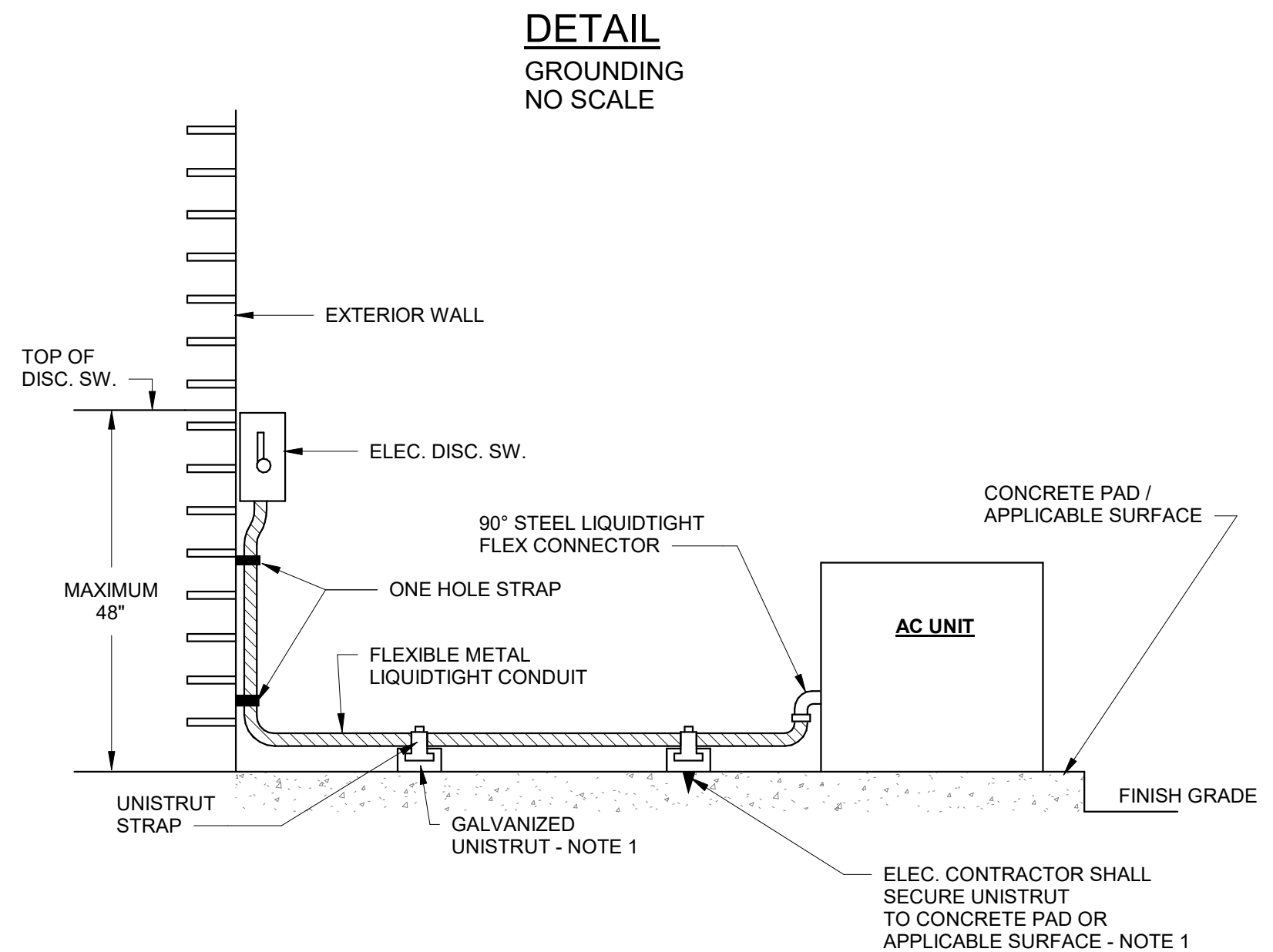
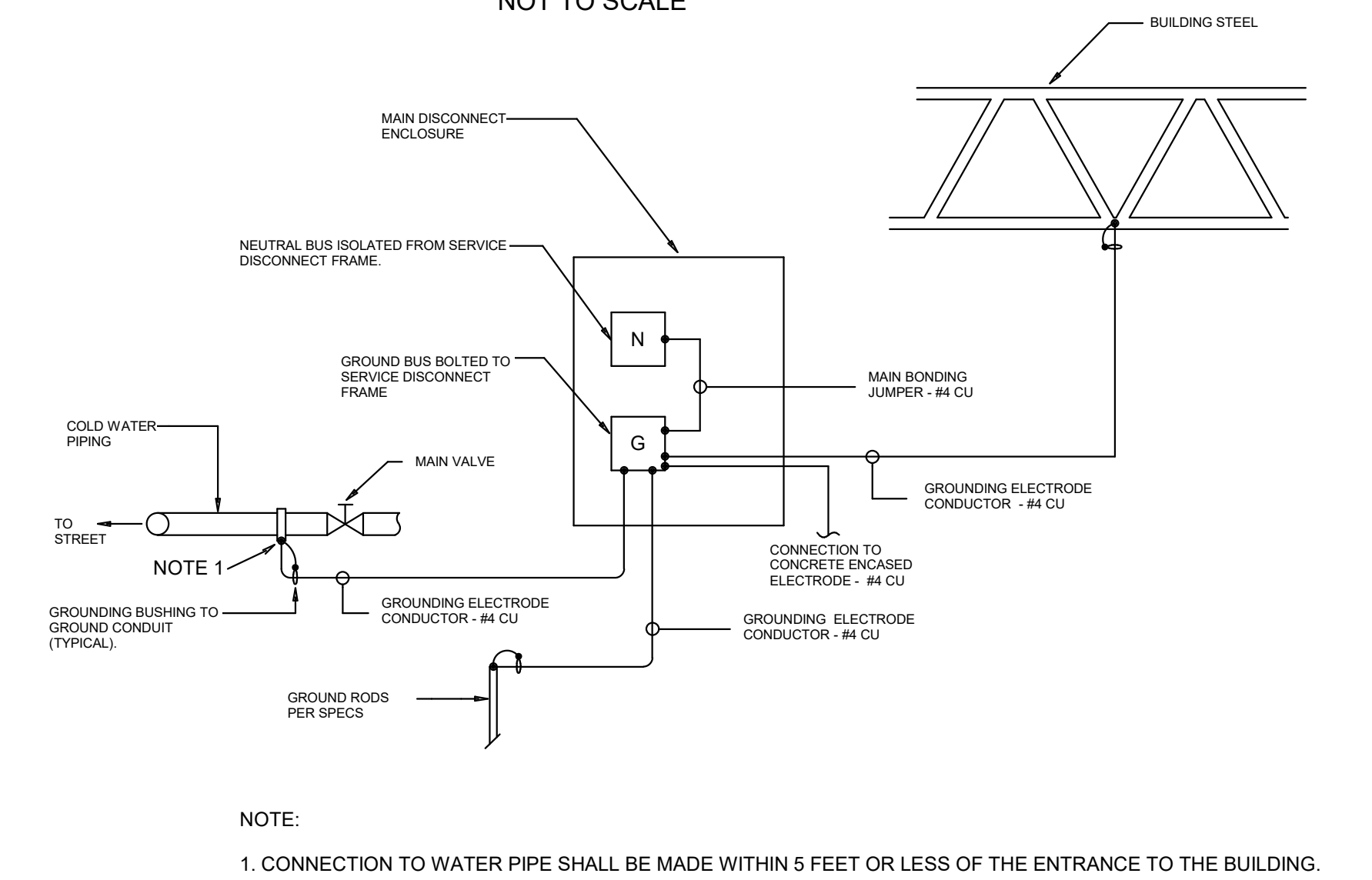
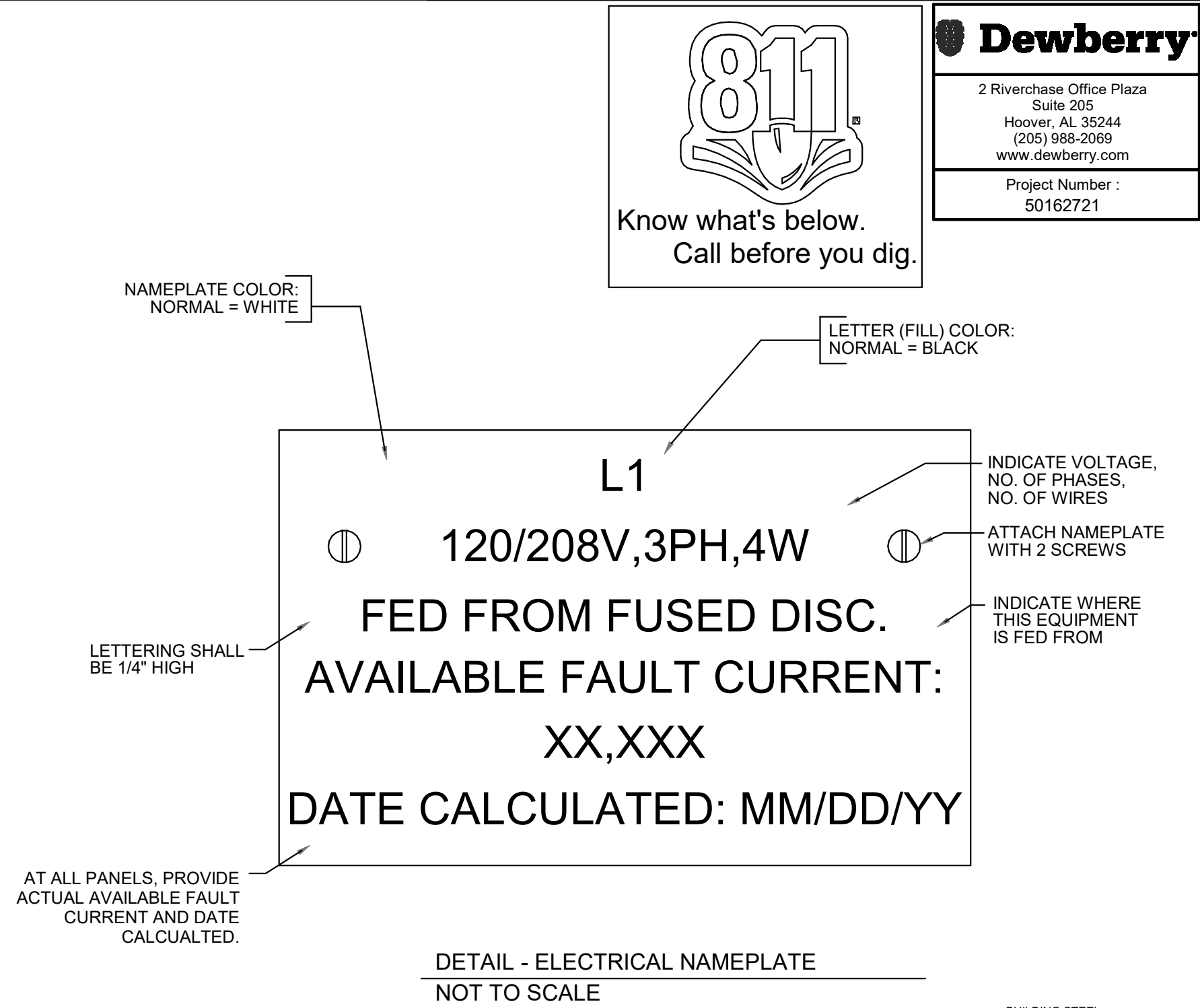
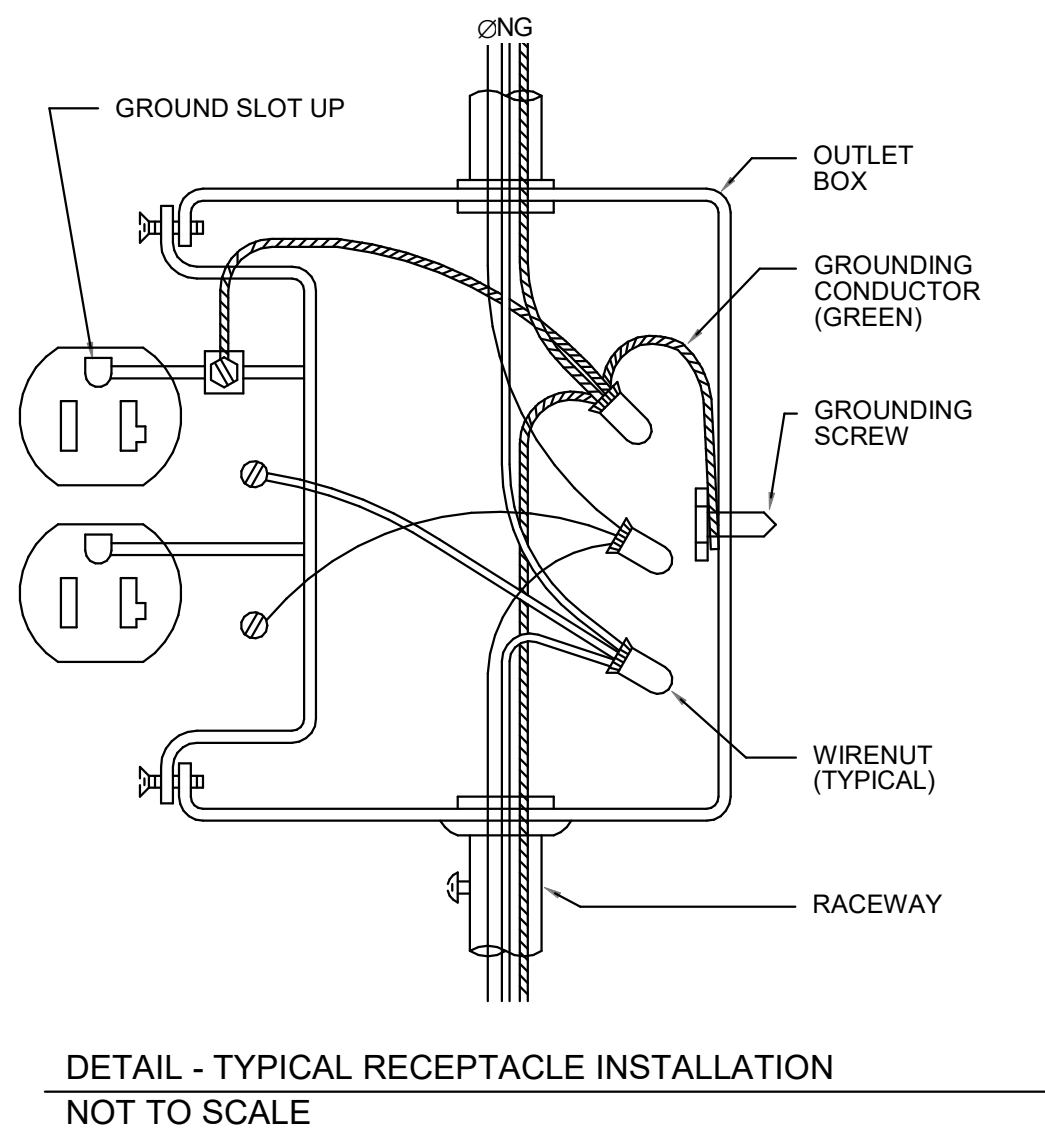




RISER DIAGRAM
NO SCALE

ELECTRICAL RISER DIAGRAM KEYNOTES:

- 225 AMP SELF CONTAINED METER BOX PROVIDED BY ELECTRICAL CONTRACTOR. COORDINATE SPECIFICATIONS WITH UTILITY COMPANY. GROUND PER NEC AND UTILITY COMPANY REQUIREMENTS.
- SEE GROUNDING DETAIL.
- WEATHERHEAD AND ALL WIRING FROM WEATHERHEAD TO FUSED DISCONNECT SHALL BE PROVIDED BY THE EC. PROVIDE ADDITIONAL SLACK AS REQUIRED BY UTILITY AND TERMINATE PER UTILITY SPECIFICATIONS AT THE TOP OF THE WEATHERHEAD.



TYPICAL GROUND MOUNTED MECHANICAL UNIT CONNECTION DETAIL

NO SCALE

NOTES:

- PROVIDE SUPPORT AS REQUIRED. SUPPORT SPACING SHALL BE NO GREATER THAN 3'.

NOTE:
ALL ELECTRICAL EQUIPMENT IS TO BE OWNER FURNISHED AND OWNER INSTALLED.

OHP - OVERHEAD PRIMARY
OHS - OVERHEAD SECONDARY

SITE POWER AND TELEPHONE NOTES:

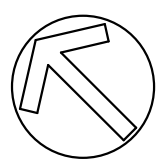
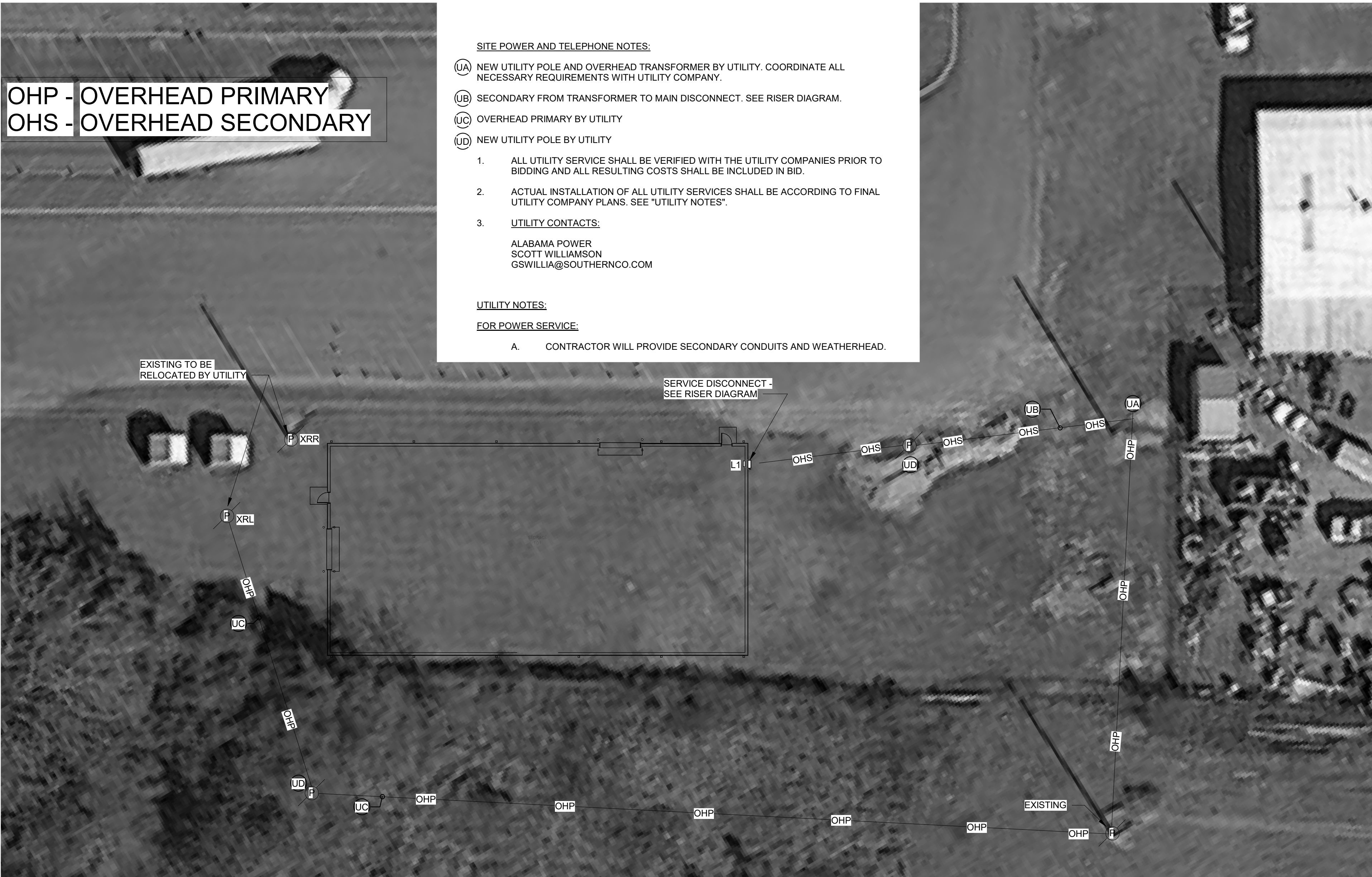
- NEW UTILITY POLE AND OVERHEAD TRANSFORMER BY UTILITY. COORDINATE ALL NECESSARY REQUIREMENTS WITH UTILITY COMPANY.
- SECONDARY FROM TRANSFORMER TO MAIN DISCONNECT. SEE RISER DIAGRAM.
- OVERHEAD PRIMARY BY UTILITY
- NEW UTILITY POLE BY UTILITY

- ALL UTILITY SERVICE SHALL BE VERIFIED WITH THE UTILITY COMPANIES PRIOR TO BIDDING AND ALL RESULTING COSTS SHALL BE INCLUDED IN BID.
- ACTUAL INSTALLATION OF ALL UTILITY SERVICES SHALL BE ACCORDING TO FINAL UTILITY COMPANY PLANS. SEE "UTILITY NOTES".
- UTILITY CONTACTS:**
ALABAMA POWER
SCOTT WILLIAMSON
GSWILLIA@SOUTHERNCO.COM

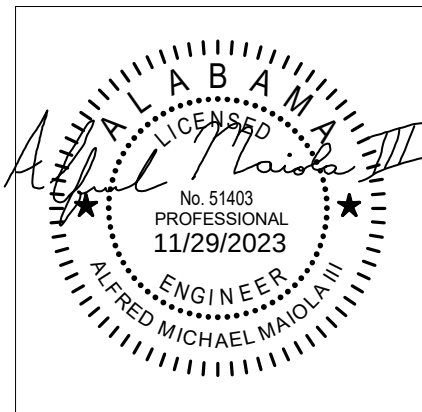
UTILITY NOTES:

FOR POWER SERVICE:

- CONTRACTOR WILL PROVIDE SECONDARY CONDUITS AND WEATHERHEAD.



1 ELECTRICAL - SITE PLAN
1" = 20'-0"



SHEET TITLE:
ELECTRICAL SITE PLAN,
RISER DIAGRAM AND DETAILS

PROJ. MGR.: AMM
DRAWN: CRP

DATE: 03/01/23
REVISIONS

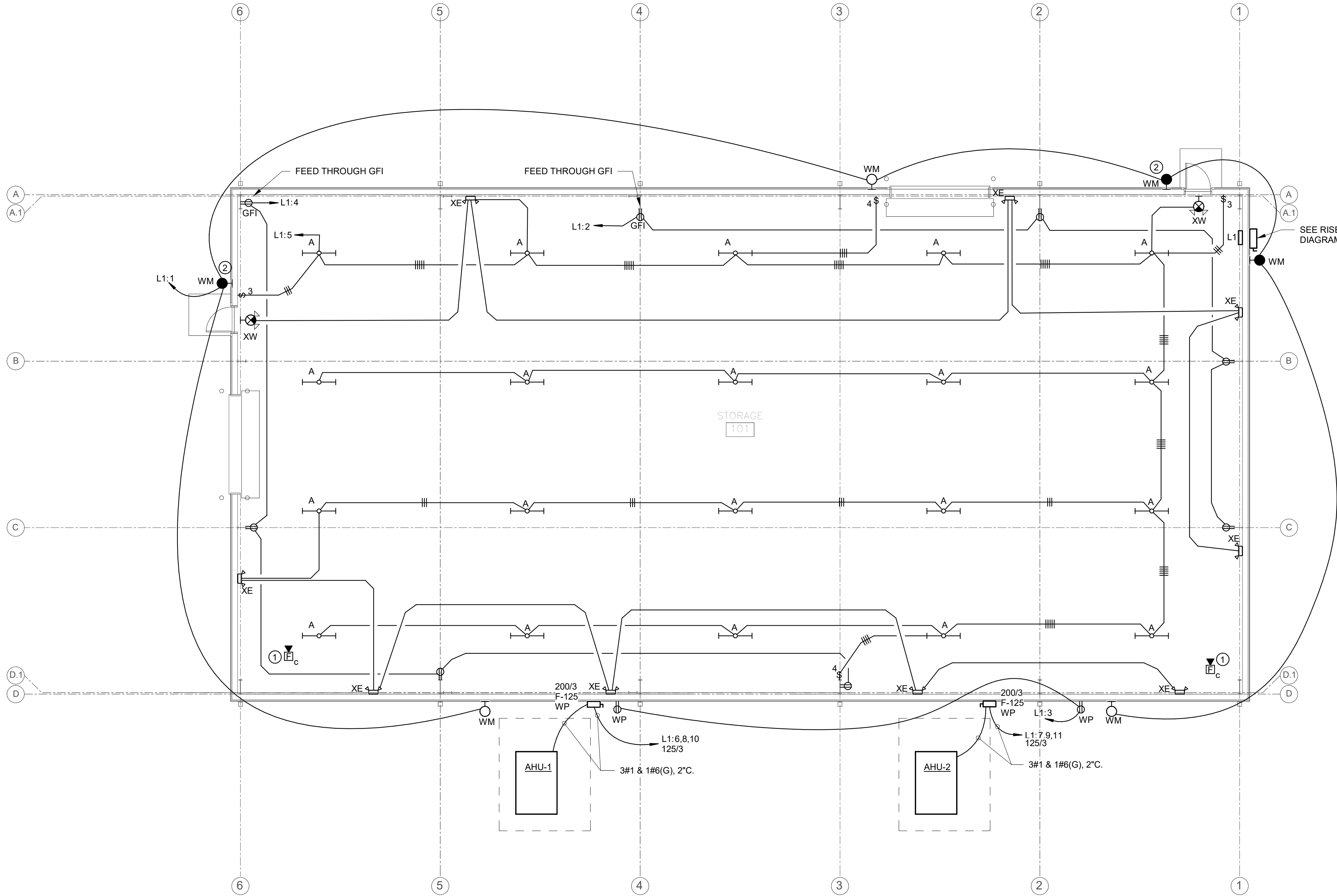
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SHEET NO. E2
2 OF 4



LUMINAIRE SCHEDULE									
TYPE MARK	MANUFACTURER	MODEL	VOLT	LAMP	WATT	COLOR TEMP	DESCRIPTION		COMMENTS / OPTIONS
A	LITHONIA	ZL1D L48 5000LM FST MVOLT 40K 80CRI WH / HC36M12	MVOLT	LED 5000LM	41 W	4000 K	PENDANT MOUNTED LINEAR LED LUMINAIRE, 40" LENGTH.		PROVIDE 36" HANGER CHAIN (1 PAIR), MOUNT FIXTURE BELOW PIPING, EQUIPMENT, ETC.
WM	LITHONIA	WPX1-LED-P2-40K-MVOLT-(E14WC)-PE-DBLXD	MVOLT	LED 2900LM	24 W	4000 K	WALL MOUNTED LED LUMINAIRE WITH INTEGRAL PHOTOCELL FOR DAWN DUSK CONTROL.		PROVIDE EMERGENCY BATTERY PACK ONLY WHERE NOTED ON THE FLOOR PLAN. PROVIDE INTEGRAL PHOTOCELL.
XE	LITHONIA	ELM6L B UVOLT LTP SDRT HO	MVOLT	LED 1100LM	9 W	4000 K	BLACK FINISH, WALL OR CEILING MOUNTED EMERGENCY EGRESS LIGHT. EGRESS LIGHTING HEADS SHALL BE HIGH OUTPUT TYPE AND INTEGRAL TO THE FIXTURE.		PROVIDE BATTERY BACKUP.
XW	LITHONIA	LHQM-LED-R-HO	MVOLT	LED 1100LM	9 W	4000 K	WALL MOUNTED COMBINATION EXIT SIGN AND EMERGENCY EGRESS LIGHT. EGRESS LIGHTING HEADS SHALL BE HIGH OUTPUT TYPE AND INTEGRAL TO THE FIXTURE.		PROVIDE BATTERY BACKUP

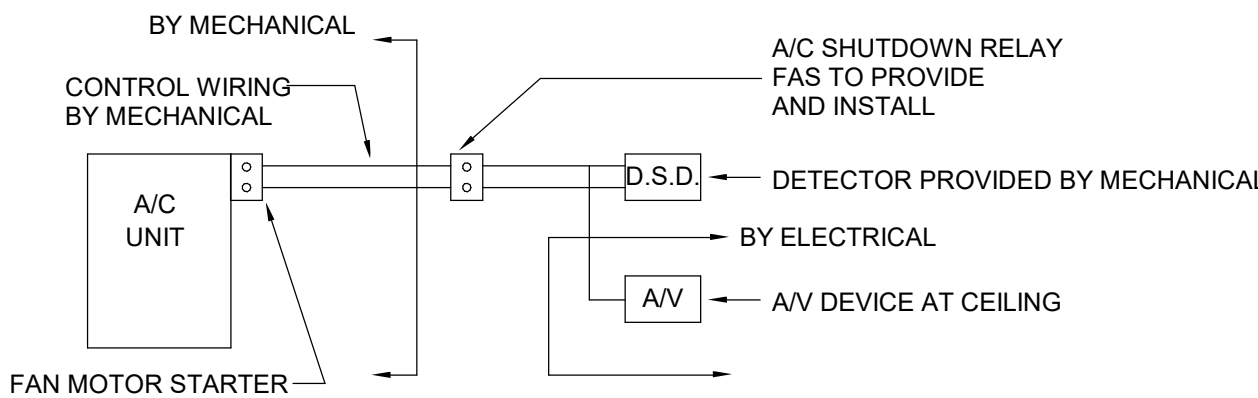
LUMINAIRE SCHEDULE NOTES	
1. MANUFACTURER CATALOG NUMBERS ARE SHOWN FOR GENERAL DESCRIPTIVE PURPOSES AND TO ESTABLISH STANDARD OF QUALITY ONLY. PROVIDE LUMINAIRES COMPLETE WITH ALL OPTIONS AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. ALL PRODUCTS SHALL BE UL LISTED.	8. FURNISH LINEAR LUMINAIRES IN CONTINUOUS ROWS OR PATTERNS AS INDICATED ON DRAWINGS. PROVIDE WITH CORNER, ANGLE, AND END PIECES AS REQUIRED FOR A COMPLETE FINISHED INSTALLATION.
2. PROVIDE PROPER LAMP FOR REFLECTOR ASSEMBLY SPECIFIED AND AS RECOMMENDED BY LUMINAIRE MANUFACTURER.	9. FURNISH LUMINAIRES IN MECHANICAL SPACES COMPLETE WITH PENDANT STEMS OR CHAIN HANGERS AS REQUIRED TO MOUNT BELOW. PIPING, DUCT, CONDUIT, ETC., MAINTAIN MINIMUM 7'-6"H. UNIFORM MOUNTING HEIGHT FOR ALL LUMINAIRES THROUGHOUT EACH AREA.
3. PROVIDE FUSES FOR UNGROUNDED CONDUCTORS SUPPLYING LED DRIVERS: GMF/HLR. PROVIDE FUSE SIZED FOR RATING OF DRIVER.	10. PENDANT-MTD LUMINAIRES WITH AIRCRAFT CABLE SUSPENSION SYSTEMS SHALL BE FURNISHED WITH ADJUSTABLE CABLE GRIP HARDWARE. CABLE SIZE SHALL BE SELECTED BY MANUFACTURER TO PROVIDE ADEQUATE SUPPORT OF LUMINAIRE SPECIFIED.
4. VERIFY CONSTRUCTION OF CEILINGS BEING INSTALLED AND PROVIDE THE LUMINAIRES SPECIFIED IN APPROPRIATE CONFIGURATION WITH ALL HARDWARE AND ACCESSORIES REQUIRED FOR COMPATIBLE INSTALLATION.	11. EMERGENCY BATTERY DRIVERS FOR LED LUMINAIRES SHALL PRODUCE 1350 LUMENS FOR 90 MINUTES MINIMUM. BODINE OR EQUAL.
5. PROVIDE LUMINAIRES WITH JOINING PLATES, END CAPS, CANOPIES, MOUNTING HARDWARE, ETC., AS REQUIRED FOR COMPLETE INSTALLATION.	12. LED FIXTURES: TO INSURE A FIXTURE WILL PERFORM "AS ADVERTISED" ON A CUT SHEET, THE PUBLISHED SPECIFICATION SHALL BE SUPPORTED BY LM-79 TEST RESULTS. LED FIXTURES WHICH ARE BUILT USING LED'S SHALL HAVE SUCCESSFULLY PASSED LM-80. LED'S SHALL YIELD A LM-80 RESULT OF A MINIMUM OF 70% OF THE ORIGINAL LIGHT OUTPUT OF THE LED STILL BEING DELIVERED AFTER 50,000 HOURS OF OPERATION. THE POWER SUPPLY UNIT (DRIVER) SHALL HAVE 150,000 HOURS MTBF (MEAN TIME BETWEEN FAILURES). AN INTEGRATED BATTERY BACKUP SOLUTION FOR THE LED FIXTURE IS REQUIRED. REPLACEABLE LED BOARDS TO ALLOW FIXTURE UPGRADE.



1 ELECTRICAL - FLOOR PLAN

1/8" = 1'-0"

Panel: L1			Enclosure: NEMA 1			Volts: 120/208 Wye			Bus Rating: 225A			A.I.C. Rating: 10,000A		
Location: STORAGE 101			Mounting: SURFACE			Phases: 3			Main Device Type: MLO					
Fed From: FUSED DISC.						Wires: 4			Main Device Size: --			Fault Current: 3,605 A		
Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A	B	C	Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	LTG - EXTERIOR LIGHTING		Lighting - Exterior	20	1	120	720			1	20	Receptacle	REC - STORAGE 101	2
3	REC - EXTERIOR MECH		Receptacle	20	1		360	720		1	20	Receptacle	REC - STORAGE 101	4
5	LTG - STORAGE 101		Lighting	20	1			906	10368	3	125	HVAC	AHU-1	6
7	AHU-2		HVAC	125	3	4848	10368			--	--	--		8
9	--		--	--	--		4848	10368		--	--	--		10
11	--		--	--	--			4848						12
13	Spare		--	20	1	0	0			1	20	--	Spare	14
15	Spare		--	20	1		0	0		1	30	--	Spare	16
17	Spare		--	20	1			0	0	1	30	--	Spare	18
19	Spare		--	20	1	0	0			1	15	--	Spare	20
21	Spare		--	20	1		0	0		1	15	--	Spare	22
23	Spare		--	20	1			0	0	1	15	--	Spare	24
25	Spare		--	20	1	0	0			1	15	--	Spare	26
27	Spare		--	20	1		0	--		1	--	--	Spare	28
29	Spare		--	20	1			0	--	1	--	--	Spare	30
31	Spare	1	--	20	1	0	--			1	--	--	Spare	32
33	Spare		--	30	2		0	--		1	--	--	Spare	34
35	--		--	--	--	--		0	--	1	--	--	Spare	36
37	Spare		--	30	3	0	--			1	--	--	Spare	38
39	--		--	--	--	--	0	--		1	--	--	Spare	40
41	--		--	--	--	--		0	--	1	--	--	Spare	42
Total Phase Connected Load (VA):						16050	16296	16087						
Total Phase Connected Current (A):						134	136	134						
Load Classification		Connected Load (VA)		Demand Factor		Demand Load (VA)		Panel Totals:						
Lighting		906 VA		125.00%		1133 VA		Total Connected Load (VA):		48431 VA				
Lighting - Exterior		120 VA		125.00%		150 VA		Total Demand Load (VA):		48678 VA				
Receptacle		1800 VA		100.00%		1800 VA		Total Connected Current (A):		134 A				
HVAC		45648 VA		100.00%		45648 VA		Highest Connected Phase Current (A):		136 A				
								Total Demand Current (A):		135 A				
Notes:														
ALL BREAKERS SHALL BE FULLY RATED TO THE AIC RATING SHOWN.														
Circuit Notes:														
1. PROVIDE GFI BREAKER.														



SHEET KEYNOTES:

- AUDIO AND VISUAL DEVICE TO BE CONNECTED TO DUCT DETECTORS. SEE DETAIL.
- PROVIDE FIXTURE WITH EMERGENCY BATTERY PACK.

AT LEAST 4" X 6", COMPLY WITH NEC 110.16

WARNING

Electric Arc Flash Hazard
Will cause severe injury or death

Wear protective equipment before opening or performing diagnostic measurements while energized. (see NFPA 70E)

COMPLY WITH ANSI Z535.4-1998
HIGH - TACK ADHESIVE LABELS
UV/CHEMICAL RESISTANT 3.2 MIL LAMINATED VINYL

ARC FLASH HAZARD-LABEL
ALL ELECTRICAL EQUIPMENT PER SPECIFICATIONS
NO SCALE

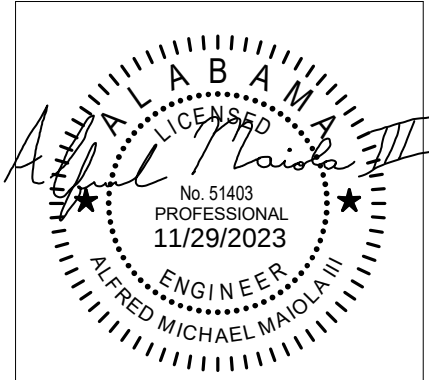
NOTE:
ALL ELECTRICAL EQUIPMENT IS TO BE OWNER FURNISHED AND OWNER INSTALLED.

ROUNDED CORNERS TO RESIST PEELING

2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 888-2069
www.dewberry.com

Project Number : 50162721

BUTLER BUILDING FOR SURPLUS
WALLACE DRIVE CAMPUS
GADSDEN STATE COMMUNITY COLLEGE
1001 GEORGE WALLACE DRIVE, GADSDEN, ALABAMA 35903



SHEET TITLE:
ELECTRICAL FLOOR PLAN

PROJ. MGR.: AMM
DRAWN: CRP

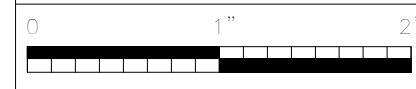
DATE: 12/28/15
REVISIONS:

JOB NO. 22-143

SHEET NO.:

E3

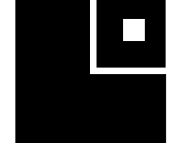
3 OF 4





2 Riverchase Office Plaza
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Hoover, AL 35244
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www.dewberry.com

Project Number :
50162721



LATHAN
ARCHITECTS

BUTLER BUILDING FOR SURPLUS

WALLACE DRIVE CAMPUS
GADSDEN STATE COMMUNITY COLLEGE
1001 GEORGE WALLACE DRIVE, GADSDEN, ALABAMA 35903

ALABAMA
No 5180
PROFESSIONAL
11/29/2023
ENGINEER
LIFEED MICHAEL WARD, III

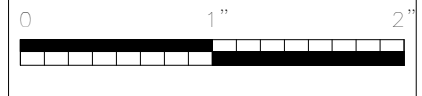
SHEET TITLE:
ELECTRICAL SPECIFICATIONS

PROJ. MGR.:
DRAWN:
DATE:
REVISIONS

AMM
CRP
04/05/23

JOB NO.
SHEET NO.
E4
4 OF 4

22-143



SPECIFICATIONS SECTION 16000 - ELECTRICAL

PART I - GENERAL

- 1.01 RELATED REQUIREMENTS
- A. COMPLY WITH DIVISION 1 - GENERAL REQUIREMENTS AND REFERENCED DOCUMENTS.
- B. RELATED WORK:
SECTION 00821: SPECIAL CONDITIONS.
- 1.02 WORK INCLUDED
- A. FOLLOWING LIST IS NOT TO BE CONSTRUED AS COMPLETE. INCLUDED ARE FOLLOWING.
1. LIGHTING SYSTEM INSTALLED IN INTERIOR AREAS.
2. POWER SYSTEM INSTALLED INCLUDING INTERIOR AREAS.
3. VOICE/DATA SYSTEM INSTALLED IN INTERIOR AREAS.
4. FIRE ALARM SYSTEM INSTALLED IN INTERIOR AREAS.
- 1.03 QUALITY ASSURANCE
- A. REGULATORY REQUIREMENTS:
1. COMPLY WITH STATE AND LOCAL ELECTRICAL SAFETY ORDERS.
2. COMPLY WITH APPLICABLE CODES: NATIONAL ELECTRICAL CODE 2011 EDITION
- B. UTILITIES:
1. FOR RENOVATION PROJECTS ONLY. TEMPORARY UTILITIES WILL BE FURNISHED BY THE OWNER FROM EXISTING PANEL BOXES ETC. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY CONNECTIONS TO EXISTING UTILITIES. THE CONTRACTOR SHALL RESTORE THE UTILITIES TO THE ORIGINAL CONDITION PRIOR TO COMPLETION OF THE WORK.
2. PRIOR TO ANY CUTTING OR SUSPENSION OF ELECTRICAL SERVICES, OR TRAFFIC WAYS, THE DEPARTMENT OF PROJECT MANAGEMENT SERVICES OR DESIGN BUILDING SERVICES SHALL BE NOTIFIED OF THE INTENT TO SUSPEND EXISTING UTILITIES. THIS WRITTEN NOTIFICATION SHALL BE MADE WITHIN FOURTEEN (14) DAYS PRIOR TO ACTUAL CUTTING OR SUSPENSION OF ANY SERVICES.
- 1.04 SUBMITTAL
- A. PRODUCT DATA: SUBMIT COPIES OF MATERIAL LIST.
- B. SHOP DRAWINGS:
1. SUBMIT FOR ELECTRICAL ITEMS EXCEPT INSTALLATION MATERIALS SUCH AS, BUT NOT LIMITED TO, CONDUIT FITTINGS, OUTLET BOXES, 600 VOLT CONDUCTORS, WIRING DEVICES.
2. CHECK SHOP DRAWINGS FOR SPACE REQUIREMENTS AND CONFORMANCE WITH CONTRACT DOCUMENTS.
- 1.05 PRODUCT HANDLING:
- A. DELIVER MATERIALS TO JOB SITE IN ORIGINAL UNBROKEN PACKAGE, PROPERLY TAGGED WITH UL LABEL, SIZE, TYPE AND MANUFACTURER INDICATED.

PART II - PRODUCTS

2.01 MATERIALS

- A. CONDUIT:
1. GALVANIZED STEEL ELECTRICAL METALLIC TUBING (EMT) WITH SET SCREW INSULATED THROAT ALL STEEL FITTINGS SHALL BE USED IN NON- HAZARDOUS DRY LOCATIONS ONLY ABOVE ACCESSIBLE CEILINGS AND INSIDE DRY PARTITIONS, FOR BRANCH CIRCUITS, POWER FEEDERS, SIGNALING, AUXILIARY AND CONTROL CIRCUITS, 2" DIA. AND SMALLER. EMT MAY BE USED EXPOSED WHERE NOT SUBJECT TO PHYSICAL DAMAGE. EMT COMPRESSION FITTINGS MAY BE USED IN DAMP LOCATIONS UP TO THE 2" LIMIT. OTHERWISE, RIGID OR INTERMEDIATE HOT DIPPED GALVANIZED INSIDE AND OUT STEEL, THREADED FOR SCREW FITTING ONLY, SHALL BE USED. MINIMUM SIZE CONDUIT IS 3/4".
2. CONDUIT BODIES AND COVERS SHALL BE CAST FERROUS ALLOY, WITH ZINC ELECTROPLATE AND ALUMINUM ACRYLIC PAINT FINISH. BUSHINGS SHALL BE STEEL OR MALLEABLE IRON, GALVANIZED, WITH SMOOTH 105 DEGREE C MINIMUM RATED PHENOLIC RING, WITH GROUND LUG WHERE REQUIRED. GROUNDING LOCKNUTS SHALL BE AS REQUIRED BY CODE.
3. FLEXIBLE METAL CONDUIT USED FOR FINAL CONNECTIONS TO GENERATOR, TRANSFORMER, MOTORS, AND MECHANICAL EQUIPMENT SHALL BE LIQUID TIGHT.
4. ACCEPTABLE MANUFACTURERS ARE:
STEEL CONDUIT: ALLIED TUBE & CONDUIT, CONDUX, REPUBLIC STEEL, TRIANGLE-PWC, WHEATLAND TUBE.
STEEL CONDUIT FITTINGS: AMERICAN ELECTRIC, APPLETON, CROUSE-HINDS, O.Z. GEDNEY
- B. RACKS AND TRAPEZE HANGERS: FORMED STEEL CHANNELS SIMILAR TO UNISTRUT.
- C. VIBRATION FITTINGS: O.Z. TYPE DX.
- D. OUTLETS AND JUNCTION BOXES:
1. GALVANIZED OR SHERARDIZED, ONE PIECE PRESSED STEEL, KNOCK-OUT TYPE.
2. SIZE OF EACH BOX DETERMINED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE FOR NUMBER OF CONDUCTORS OR NUMBER AND SIZE OF CONDUITS ENTERING BOX, BUT NOT LESS THAN 4" SQUARE AND 1-1/2" DEEP.
3. VOICE/DATA OUTLET BOXES: MINIMUM OF 4" SQUARE AND 2-1/8" DEEP WITH 3/4" SINGLE GANG PLASTER RING (VERTICAL) FOR 5/8" GYPSUM BOARD. MODIFY FOR OTHER SIZE GYPSUM BOARDS.
- VOICE/DATA OUTLET CONDUIT SHALL BE SIZED AS FOLLOWS:
SINGLE OUTLET - 3/4" C. TWO OUTLETS - 1" C. THREE OUTLETS - 1-1/4" C.
FOUR OUTLETS - 1-1/2" C. FIVE OUTLETS - 2" C.
4. VOICE/DATA HOME RUN CONDUITS FROM OUTLET TO CABLE TRAY SYSTEM IF AVAILABLE. INSTALL PULL CORDS IN ALL EMPTY CONDUITS.
- EXPOSED OUTLET BOXES: CASE METAL WITH THREADED OR UNION HUB, CROUSE-HINDS TYPE 'FS' OR 'FD' WITH CAST METAL COVERS.
- E. PULLBOXES:
1. IN NO CASE OF LESS SIZE OR MATERIAL THICKNESS THAN REQUIRED BY GOVERNING ELECTRICAL CODE.
2. GENERAL PURPOSE SHEET STEEL PULL BOXES: FURNISHED WITH REMOVAL SCREW COVERS; MANUFACTURER'S STANDARD BAKED ENAMEL FINISH.
- F. WIRE AND CABLE:
1. CONDUCTOR SIZE: #12AWG MINIMUM.
2. CONDUCTORS SHALL BE COPPER OF NOT LESS THAN 98 PERCENT CONDUCTIVITY. 600 VOLT INSULATION SHALL BE USED FOR POWER, LIGHTING AND CONTROL.
3. CONDUCTORS #10AWG AND SMALLER SHALL BE SOLID, EXCEPT FOR CONTROL AND AUXILIARY SYSTEMS. CONDUCTOR'S #8 AND LARGER SHALL BE STRANDED.
4. INSULATION IN DRY OR WET LOCATIONS SHALL BE TYPE THHN/THWN OR XHHW.
5. CONTROL SYSTEMS SHALL BE #14-7X (OR 19X) AWG MIN., TYPE THHN/THWN.
6. AUXILIARY AND COMMUNICATION CABLES SHALL BE AS RECOMMENDED BY SYSTEM VENDOR.
7. ACCEPTABLE MANUFACTURERS ARE:
ROME, TRIANGLE, GENERAL CABLE, CABLEC, AUXILIARY AND COMMUNICATION CABLES SHALL BE AS RECOMMENDED BY SYSTEM VENDOR.
- G. WIRING DEVICES - RECEPTACLES:
1. DUPLEX RECEPTACLES SHALL BE SPECIFICATION GRADE, 20 AMP, NEMA BLADE CONFIGURATION WITH NYLON TOP, THERMOSET BASE, WRAP AROUND BRASS MOUNTING STRAP WITH RIVETED BRASS GROUND CONTACTS, BACK AND SIDE WIRED AND SELF-GROUNDING. RECEPTACLE MUST MEET U.L. AND FEDERAL SPECIFICATION TESTS. RECEPTACLES ARE TO BE GREY COLOR EXCEPT RED COLOR FOR EMERGENCY OUTLETS, WHITE COLOR FOR UPS OUTLETS, ORANGE COLOR FOR ISOLATED GROUND OUTLETS AND SPECIAL COLORS DESIGNATED BY THE ARCHITECT.
2. DEVICE PLATES SHALL BE .04" THICK TYPE 302 SMOOTH STAINLESS STEEL, BRUSHED FINISH. ENGRAVING SHALL BE BLACK FOR NORMAL POWER, RED FOR EMERGENCY AND BLUE FOR UPS.
3. SPECIFICATION GRADE DUPLEX RECEPTACLES, ACCEPTABLE MANUFACTURERS ARE:
HUBBELL INC., CAT. NO. 5362
ARROW-HART INC., CAT. NO. 5362
BRYANT ELECTRIC CAT. NO. 5362
LEVITON CAT. NO. 5362
EAGLE ELECTRIC
4. DEVICE PLATE'S ACCEPTABLE MANUFACTURERS ARE:
HUBBELL INC.
ARROW-HART INC.
BRYANT ELECTRIC
PASS & SEYMOR
LEVITON
EAGLE ELECTRIC
- H. WIRING DEVICES - SWITCHES
1. A.C. SWITCHES SHALL BE SPECIFICATION GRADE, 20 AMP, SIDE-WIRED WITH A ONE-PIECE, RIVET LESS SPRING CONTACT ARM AND TERMINAL PLATE AND AUTOMATIC GROUNDING CLIP, IN ADDITION TO MEETING U.L. AND FEDERAL SPECIFICATION TESTS.
2. DEVICE PLATES SHALL BE .04" THICK TYPE 302 SMOOTH STAINLESS STEEL, BRUSHED FINISH.
3. SPECIFICATION GRADE A.C. SWITCHES - ACCEPTABLE MANUFACTURERS ARE:
HUBBELL INC. CAT. NO. 1221 (1 POLE)
ARROW-HART INC. CAT. NO. 1221 (1 POLE)
BRYANT ELECTRIC CAT. NO. 4901 (1 POLE)
LEVITON CAT. NO. 1221 (1 POLE)
4. DEVICE PLATES - ACCEPTABLE MANUFACTURERS ARE:
HUBBELL INC.
SIERRA
PASS & SEYMOUR
LEVITON
- I. LIGHTING FIXTURES:
1. UNDERWRITER'S LABORATORIES LISTED.
2. FIXTURES OF SIMILAR TYPE SHALL BE OF SAME MANUFACTURER.
3. AS SPECIFIED IN THE LUMINAIRE SCHEDULE. EQUAL MANUFACTURERS ARE ACCEPTABLE WHERE SUBMITTED FOR ENGINEERING REVIEW PRIOR TO BID.

PART III - EXECUTION

3.01 INSTALLATION

- A. LOCATION AND VERIFICATION OF DIMENSIONS. SCALED AND FIGURE DIMENSIONS ARE APPROXIMATE AND ARE GIVEN FOR ESTIMATING PURPOSES ONLY. BEFORE PROCEEDING WITH WORK, CHECK AND VERIFY DIMENSIONS AND SIZES AND ASSUME RESPONSIBILITY FOR FITTING OF ALL MATERIALS AND EQUIPMENT TO OTHER PARTS OF EQUIPMENT AND TO THE STRUCTURE. WHERE APPARATUS AND EQUIPMENT HAVE BEEN INDICATED ON DRAWINGS, DIMENSIONS HAVE BEEN TAKEN FROM TYPICAL EQUIPMENT OF THE CLASS INDICATED. CHECK THE DRAWINGS TO SEE THAT EQUIPMENT TO BE INSTALLED WILL FIT INTO THE SPACES PROVIDED.
- B. INSTALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, INSTRUCTIONS, INDUSTRY STANDARDS.
- C. CONDUITS:
1. RACEWAYS RUN ABOVE HUNG CEILINGS SHALL BE INSTALLED AS HIGH AS POSSIBLE, SHALL PERMIT THE REMOVAL OF CEILING PANELS AND LIGHTING FIXTURES, AND SHALL NOT INTERFERE WITH PIPES AND DUCTS.
2. ALL CONDUIT NOT ENCASED IN CONCRETE OR UNDERGROUND SHALL BE COLOR CODED.
- a) 3/4" WIDE SELF-ADHESIVE VINYL PLASTIC ELECTRICAL TAPE. ACCEPTABLE MANUFACTURERS ARE:
3M COMPANY "SCOTCH 35" OR APPROVED EQUAL.
- b) BAND(S) SHALL BE APPLIED USING TWO (2) FULL TURNS AROUND CONDUIT, SIX (6) INCHES FROM ALL CONDUIT TERMINATIONS INTO SWITCHBOARDS, PANELBOARDS, MOTOR CONTROL CENTERS, STARTERS, CABINETS, CONTROL PANELS, PULLBOXES, OUTLET BOXES, ETC., ON EACH SIDE OF WALLS, FLOOR OR ROOF PENETRATED BY CONDUIT AND WHERE CONDUIT ENTERS WALL TO OUTLETS BELOW.
- c) WHERE WRITTEN IDENTIFICATION IS ALSO REQUIRED, LETTERS SHALL BE APPLIED ON CONDUIT ADJACENT TO EACH TAPE COLOR CODE USING PERMANENT BLACK MARKER PEN SO THAT LETTERS WILL BE LEGIBLE FROM FLOOR BELOW.
- CONDUIT COLOR CODE
- SYSTEM 120/208 VOLTS-NORMAL
- COLOR CODE BLACK
- D. INSTALLATION OF 600 VOLT AND BELOW CONDUCTORS:
1. NO CONDUCTOR SHALL BE SMALLER THAN #12 EXCEPT FOR CONTROL AND AUXILIARY SYSTEMS AND WHERE SO DESIGNATED ON THE DRAWINGS.
2. NO POWER, LIGHTING OR CONTROL CONDUCTORS SHALL BE INSTALLED IN THE SAME RACEWAY, PULLBOX, OR CABINET WITH INSTRUMENTATION, AUXILIARY, OR COMMUNICATION CABLE.
3. ALL LOW-VOLTAGE WIRES AND CABLES SUCH AS TELEPHONE, COMPUTER, NURSE CALL, INTERCOM, ETC. IN HOSPITAL BUILDINGS AND IN NEW OR RENOVATIONS OF NON-HOSPITAL BUILDINGS SHALL BE INSTALLED IN CONDUIT OR OTHER APPROVED RACEWAY.
4. CONDUCTORS SHALL BE CONTINUOUS BETWEEN OUTLETS OR JUNCTION BOXES AND NO SPLICES SHALL BE MADE EXCEPT IN OUTLET BOXES, PULLBOXES, PANELBOARD GUTTERS OR HANDHOLES. FEEDERS SHALL NOT BE SPLICED IN PULLBOXES.
5. ALL JOINTS, SPLICES AND TAPS #10 AND SMALLER (INCLUDING FIXTURE PIGTAILS) SHALL BE CONNECTED WITH "IDEAL" WIRE NUTS.
6. OIL OR GREASE SHALL NOT BE USED WHEN PULLING CONDUCTORS. USE ACCEPTABLE CABLE LUBRICANTS ONLY. CONDUCTORS SHALL NOT COME IN CONTACT WITH EARTH OR LAID OUT ON CONCRETE SLABS WHILE BEING INSTALLED.
7. TRAIN AND LACE CONDUCTORS NEATLY IN PANELS, CABINETS AND EQUIPMENT.
8. TIGHTEN PRESSURE TYPE LUGS ON PANELS AND EQUIPMENT, AND RE-TIGHTEN 24 HOURS LATER.
9. TAGGING OF CONDUCTORS:
- a) TAG BRANCH CIRCUITS IN PANELBOARDS, IN GUTTERS, AND IN JUNCTION BOXES WHERE UNUSED CIRCUITS TERMINATE FOR PURPOSE OF IDENTIFYING VARIOUS CIRCUITS.
- b) TAG FEEDERS AND MAINS IN SWITCHBOARDS.
- c) TAG WITH ADHESIVE TYPE MARKER MANUFACTURED BY "BRADY".
10. INSTALL #12 GALVANIZED STEEL PULL WIRE IN EMPTY CONDUITS.
11. LIGHTING AND POWER WIRING SYSTEM CONDUCTORS SHALL BE COLOR CODED AT ALL LOCATIONS WHERE CONDUIT IS BROKEN AND AT EACH CONDUCTOR TERMINATION.
12. CONDUCTORS #6 AND SMALLER SHALL BE COLOR CODED WITH COLORED INSULATION.
13. CONDUCTORS #4 AND LARGER WHERE NOT AVAILABLE IN COLORS, SHALL BE COLOR CODED WITH COLOR PRESSURE SENSITIVE TAPE AT ALL TERMINATION AND JUNCTION AND PULLBOXES.
- CONDUCTOR COLOR CODE
- PHASE 120/240 120/208 277/480
- A BLACK BLACK BROWN
- B ORANGE RED ORANGE
- C BLUE BLUE YELLOW
- NEUTRAL WHITE WHITE GREY
- GROUND GREEN GREEN GREEN
14. CONTROL AND SIGNAL CONDUCTORS SHALL BE COLOR CODED AS DIRECTED BY SYSTEM VENDOR. WIRING TAGS SHALL BE SHOWN ON DRAWINGS AND MATCHED ON INDIVIDUAL CONDUCTORS.
15. 3/4" WIDE SELF-ADHESIVE VINYL PLASTIC ELECTRICAL TAPE. ACCEPTABLE MANUFACTURERS ARE: 3M COMPANY "SCOTCH 35" OR APPROVED EQUAL.
16. MINIMUM TWO (2) INCHES OF TAPE SHALL BE APPLIED TO EACH INDIVIDUAL CONDUCTOR IN HALF LAPPED PATTERN.
- E. WIRING DEVICES
1. DUPLEX RECEPTACLE MOUNTING HEIGHT SHALL BE 1'-6" CENTERLINE ABOVE FINISHED FLOOR, UNLESS OTHERWISE SHOWN, MOUNTED VERTICALLY WITH GROUND POLE UP AND RIGIDLY SUPPORTED FROM STRUCTURE MEMBERS.
2. RECEPTACLES SHALL NOT BE INSTALLED WITHIN 1'-0" OF SINK OR GAS OUTLETS. GFCI RECEPTACLES ARE TO BE USED WITHIN 6'-0" OF SINK. ALL RECEPTACLES 50A SINGLE PHASE OR LESS 100A OR LESS 3 PHASE IN KITCHEN SHALL BE GFCI TYPE OR PROTECTED BY GFCI BREAKER.
3. IN NON-HEALTH CARE FACILITIES, PANELBOARD AND CIRCUIT NUMBERS SHALL BE NEATLY MARKED ON TOP EDGE OF ALL RECEPTACLE PLATES, USING VINYL SELF-LAMINATED WRITE-ON MARKER. IN HEALTHCARE FACILITIES PATIENT CARE AREAS AND MEDICAL LABORATORIES, PLATES SHALL BE ENGRAVED WITH SUCH INFORMATION.
4. A.C. SWITCH MOUNTING HEIGHT SHALL BE 4'-0" CENTERLINE A.F.F., UNLESS OTHERWISE SHOWN, MOUNTED VERTICALLY AND RIGIDLY SUPPORTED FROM STRUCTURAL MEMBERS.
- F. FIELD QUALITY CONTROL
6. FURNISH NECESSARY INSTRUMENTS AND EQUIPMENT REQUIRED FOR MAKING TESTS, TEST ALL WIRING FOR SHORTS, OPEN CIRCUITS OR GROUNDING.
7. IMMEDIATELY CORRECT ANY DEFECTIVE WORK.
8. WHEN ENTIRE INSTALLATION HAS BEEN COMPLETED AND LIGHTING FIXTURES INSTALLED, TEST OUT CIRCUITS AND SWITCHING, AND DEMONSTRATE THAT OPERATION OF SYSTEM IS IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- H. ADJUSTING AND CLEANING
1. CLEAN EXPOSED PARTS OF ELECTRICAL EQUIPMENT AND INTERIOR OF PANELS, CABINETS AND SWITCHBOARDS OF DIRT, CEMENT, AND PLASTER AND OTHER MATERIALS.
2. REPLACE OR REFINISH SCRATCHED OR DAMAGED MATERIALS.
- I. LIGHTING ADJUSTMENT
1. AT FINAL INSPECTION, ADJUST LIGHTING AS REQUIRED BY ARCHITECT.

NOTE:
ALL ELECTRICAL EQUIPMENT IS TO BE OWNER
FURNISHED AND OWNER INSTALLED.