

ADDITION AND RENOVATIONS TO CAFETERIA AT
SALTER ELEMENTARY SCHOOL
106 BRECON ACCESS ROAD, TALLADEGA, ALABAMA 35160
TALLADEGA CITY BOARD OF EDUCATION

PSCA PROJECT #9374
DCM PROJECT #2021800

TALLADEGA CITY BOARD OF EDUCATION

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STRUCTURAL ENGINEER: STRUCTURAL DESIGN GROUP, INC.
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PLUMBING & MECHANICAL ENGINEER: WHORTON ENGINEERING, INC.
P.O. BOX 5190
ANNISTON, ALABAMA 36205
CONTACT: RANDY WHORTON, P.E.

ELECTRICAL ENGINEER: STEWART ENGINEERING, INC.
P.O. BOX 2233
ANNISTON, ALABAMA 36202
CONTACT: SHAWN CRAWFORD

DRAWING INDEX (SET - 45 TOTAL SHEETS)

GENERAL (1 SHEET)

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- C2.0 - SITE LAYOUT AND UTILITY PLAN
- C3.0 - GRADING PLAN
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- A2.2 - ROOF PLAN AND ROOF DETAILS
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- S1.1 - GENERAL NOTES CONTINUED
- S1.2 - TYPICAL DETAILS
- S1.3 - TYPICAL DETAILS
- S1.4 - TYPICAL DETAILS
- S1.5 - TYPICAL DETAILS
- S2.1 - FOUNDATION PLAN
- S2.2 - ROOF FRAMING PLAN
- S3.1 - SECTIONS AND DETAILS
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- S3.3 - SECTIONS AND DETAILS

MECHANICAL DRAWINGS (7 SHEETS)

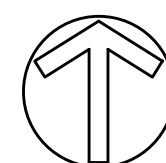
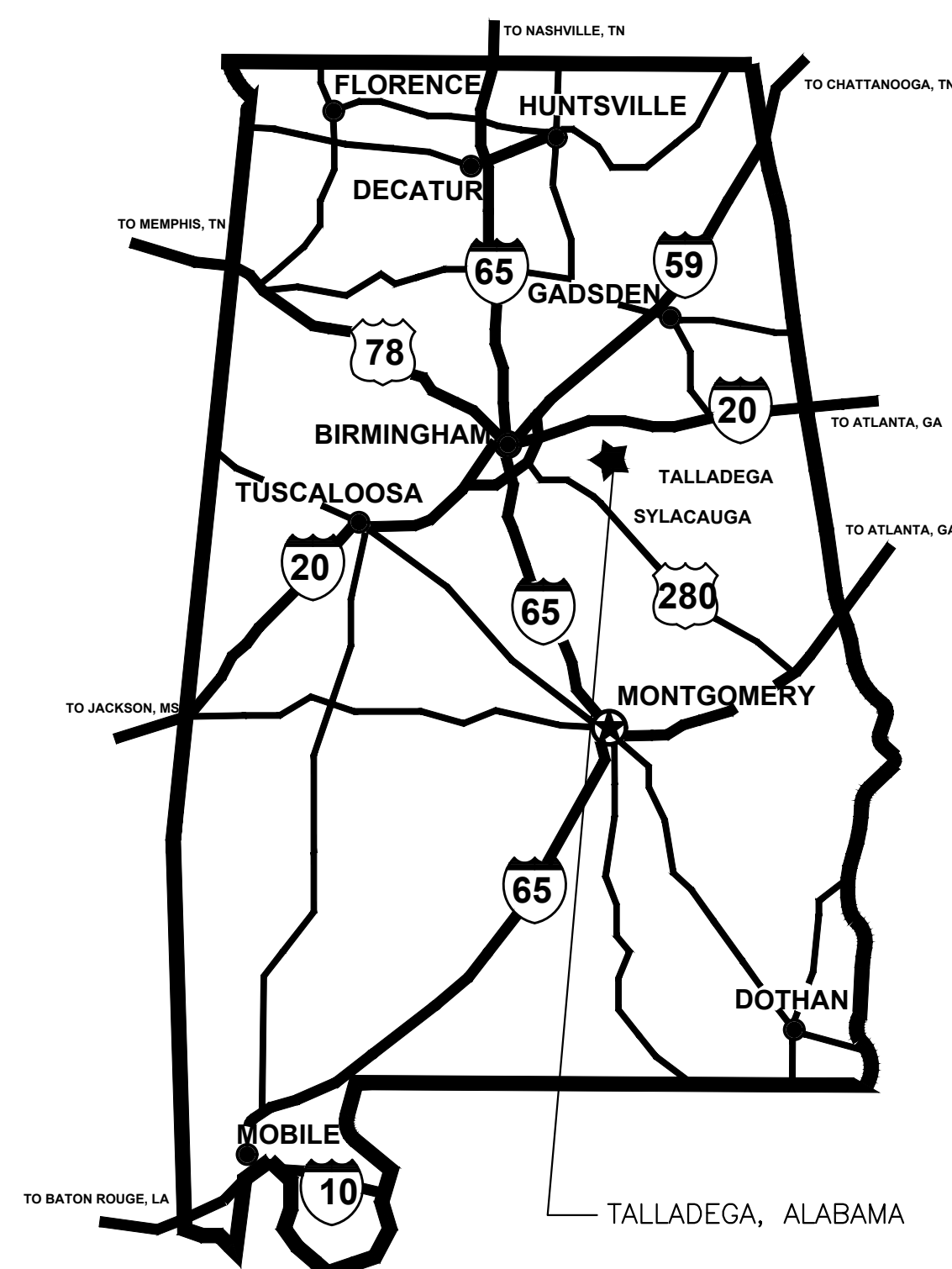
- M1.1 - HVAC LEGEND, NOTES, AND COMPLIANCE CALCULATIONS
- M1.2 - HVAC SCHEDULES AND DETAILS
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- M3.1 - HVAC DEMOLITION PLAN
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PLUMBING DRAWINGS (4 SHEETS)

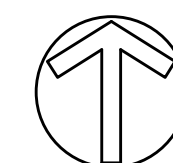
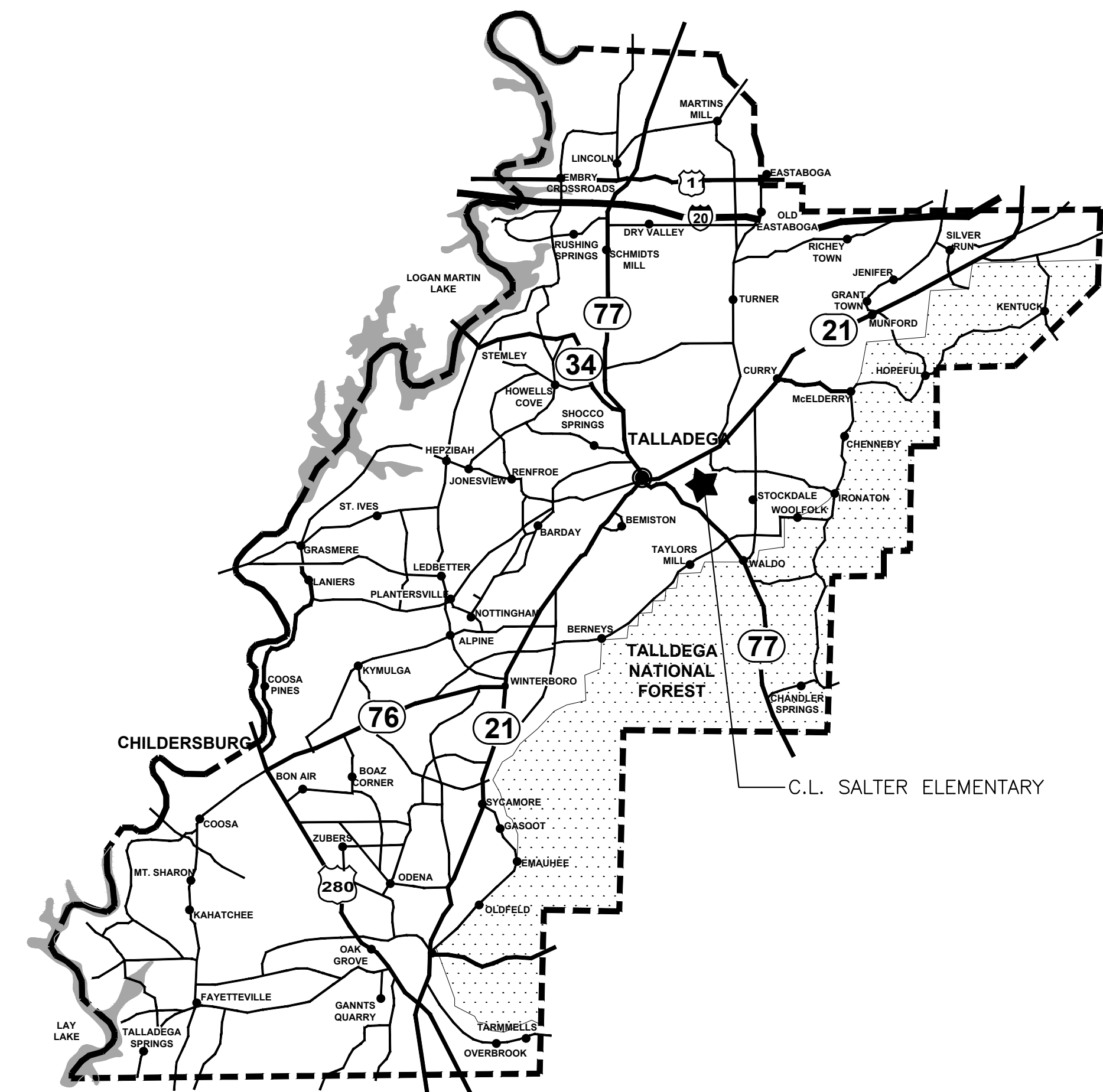
- P1.1 - PLUMBING SCHEDULES, LEGEND, NOTES AND DETAILS
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ELECTRICAL DRAWINGS (5 SHEETS)

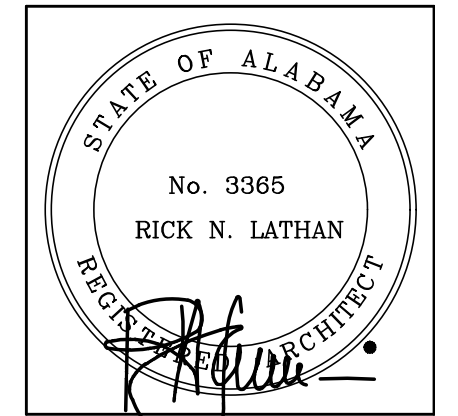
- E1.1 - SCHEDULES, SYMBOLS, AND NOTES
- E2.1 - MASTER PLAN AND SINGLE LINE DIAGRAM
- E3.1 - FLOOR PLAN - LIGHTING
- E4.1 - FLOOR PLAN - POWER
- E5.1 - FLOOR PLAN - AUXILIARIES



AREA MAP
STATE OF ALABAMA



VICINITY MAP
TALLADEGA, ALABAMA



SHEET TITLE:
TITLE AND INDEX

PROJ. MGR.: L. BRYANT
DRAWN: C. BRYANT
DATE: JULY 8, 2022

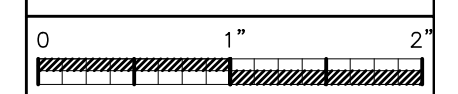
REVISIONS

JOB NO. 22-10

SHEET NO:

T1

1 OF 1



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 AND LAND SURVEY, INC., DATED 4/13/2022.
- BOUNDARY INFORMATION PROVIDED BY THE OWNER AND PERFORMED BY TOPOGRAPHIC INFORMATION WAS PERFORMED VIA GROUND RUN FORMAT.

SITE DEMOLITION NOTES:

- CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO ANY DEMOLITION REGARDING ITEMS TO BE SALVAGED, RECYCLED, AND REUSED. CONTRACTOR SHALL REMOVE ITEMS TO BE SALVAGED WITH EXTREME CAUTION TO PREVENT DAMAGE. CONTRACTOR SHALL TURN ALL SALVAGED ITEMS OVER TO OWNER.
- 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.
- REFER TO SITE GRADING PLAN FOR PROPOSED DRAINAGE INSTALLATION AND REMOVAL.
- REFER TO LAYOUT PLAN FOR ADDITIONAL INFORMATION RELATING TO PAVING, CURB, SIDEWALKS, HARDSCAPES, ETC. REMOVE EXISTING CURBS AS NEEDED TO INSTALL PROPOSED IMPROVEMENTS.
- 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 1.5' 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.
- ALL DIMENSIONS AND COORDINATES SHOWN ARE TO THE [OUTSIDE FACE OF BUILDING, OR COLUMN LINES] 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SITE CONSTRUCTION TRAFFIC CONTROL PLAN AND OBTAINING ANY REQUIRED APPROVALS FROM THE LOCAL JURISDICTIONAL AUTHORITY. THE SITE CONSTRUCTION TRAFFIC CONTROL PLAN SHALL TAKE INTO ACCOUNT THE ENTERING AND EXITING OF CONSTRUCTION TRAFFIC ONTO THE ROADWAY AND THE IMPACT TO THE FLOW OF TRAFFIC. THIS PLAN SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD. THIS SITE CONSTRUCTION TRAFFIC CONTROL PLAN SHALL BE IN ADDITION TO ANY TRAFFIC CONTROL PLAN PROVIDED IN THE PLAN SET FOR ROADWAY IMPROVEMENTS.
- 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 CONTRACTOR 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" MOISTURE CONDITIONED, AND RECOMPACTED, AS NEEDED TO ACHIEVE THE SPECIFIED DENSITY AND MOISTURE CONTENT LISTED BELOW, UNLESS OTHERWISE DETERMINED BY A GEOTECHNICAL ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT PREPARED SUBGRADE AND RESTORE TO PROJECT SPECIFICATIONS IF DAMAGED OR COMPROMISED DUE TO INCLEMENT WEATHER AND/OR 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, AND A MAXIMUM DRY DENSITY OF NO LESS THAN 100PCF AS DETERMINED BY ASTM D-698, STANDARD PROCTOR.
- PLACE FILL MATERIAL IN 8" MAXIMUM LOOSE LIFTS AND COMPACT TO REQUIREMENTS LISTED BELOW.
- 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.
- FILL MATERIAL TO BE WITHIN ±2.0% OF OPTIMUM MOISTURE CONTENT AT THE TIME OF COMPACTION, UNLESS OTHERWISE DETERMINED BY A GEOTECHNICAL ENGINEER.
- MINIMUM COMPACTION REQUIREMENTS ARE EXPRESSED BELOW AS A PERCENTAGE OF THE MATERIAL'S MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-698, STANDARD PROCTOR.

AREA	STRUCTURAL*	VEHICULAR PAVEMENT	SIDEWALKS	LANDSCAPE
% MAXIMUM DRY DENSITY	98%	98%	98%	95%

*STRUCTURAL AREAS INCLUDE ZONES OF INFLUENCE AROUND THE BUILDING, PAVEMENT AREAS, FILL SLOPES, ETC.

- 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" MAXIMUM 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 BENCHMARKED INTO THE EXISTING SLOPES AND SHOULD BE COORDINATED WITH THE ONSITE GEOTECHNICAL ENGINEER FOR BENCH DETAILS (HEIGHT AND DEPTH OF BENCH INTO THE SLOPE.)

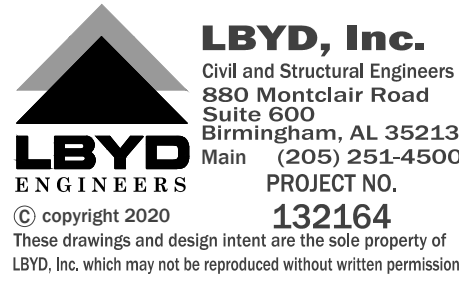
- A GEOTECHNICAL REPORT HAS BEEN PREPARED BY TERRACON CONSULTANTS, INC. AND IS AVAILABLE FOR THIS PROJECT. THE CONTRACTOR SHALL VISIT THE SITE AND COMPLETE ANY EXPLORATIONS THAT IT FEELS NECESSARY IN ORDER TO PROVIDE A SATISFACTORY BID.
- DEWATERING SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. 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.

EROSION CONTROL NOTES:

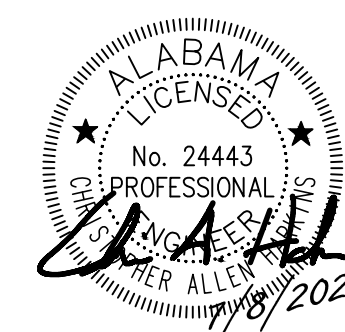
- SITE EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS, CODES, AND REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS. THE OWNER SHALL BE RESPONSIBLE FOR ALL MONITORING, INSPECTIONS, ETC. TO ENSURE THE OWNER THAT THE SITE IS AT ALL TIMES 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, STRAW WATTLES, CHECK DAMS, VEGETATIVE FILTER STRIPS, TURF REINFORCEMENT MAT, DIVERSION BERMS, ETC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES IN GOOD OPERATING CONDITION DURING ALL LAND DISTURBING ACTIVITIES. THIS RESPONSIBILITY SHALL INCLUDE THE CLEANUP AND/OR REPAIRS TO THE DEVICES AT NO ADDITIONAL COST TO THE OWNER.
- EROSION CONTROL DEVICES SHALL BE MONITORED AND MAINTAINED UNTIL THE SITE HAS BEEN PERMANENTLY STABILIZED AND AFTER EACH RAINFALL GREATER THAN 0.75 INCHES IN A 24 HOUR PERIOD, ANY WIND GUSTS GREATER THAN 25 MPH, AND ANY SUSTAINED WINDS GREATER THAN 20 MPH IN A 24 HOUR PERIOD.
- AFTER ALL LAND DISTURBANCE ACTIVITIES HAVE CEASED AND AFTER ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED, THE EROSION CONTROL DEVICES SHALL BE REMOVED BY THE CONTRACTOR AND THE AREA CLEANED AND DRESSED.
- DEWATERING OPERATIONS MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE OR POLLUTION TO ADJACENT PROPERTIES, STREAMS, DITCHES, OR PUBLIC ROADWAYS.
- A GRAVELED ACCESS DRIVE OF SUFFICIENT SIZE SHALL BE AT EACH SITE ENTRANCE/EXIT TO PREVENT TRACKING OF DIRT AND SEDIMENT ONTO PUBLIC OR PRIVATE ROADWAYS. IF SEDIMENT REACHES THE ROADWAY, THEN IT MUST BE CLEANED AT THE END OF EACH WORKDAY.
- ALL LAND DISTURBANCE ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE EXPOSURE OF BARE AREAS AT ANY ONE TIME.
- ALL DISTURBED AREAS LEFT INACTIVE FOR MORE THAN 13 DAYS SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH ALDOT SPECIFICATIONS SECTION 652 AND 656.
- ALL PREVIOUSLY GRADED AREAS SHALL RECEIVE 4 INCHES OF TOPSOIL AND PERMANENT GRASSING UNLESS OTHERWISE INDICATED ON THE LANDSCAPE PLAN.
- PRIOR TO SITE CLEARING, ALL PERIMETER SILT FENCING, BRUSH BERMS, ETC. AND GRAVELED ACCESS DRIVES SHALL BE INSTALLED.
- ALL EXISTING STREAMS, DITCHES, ETC. SHALL BE PROTECTED FROM SEDIMENTS AND SILTS BY SILT FENCING, WATTLES, BRUSH BERMS, ETC.

UTILITY NOTES:

- CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO ANY DEMOLITION REGARDING ITEMS TO BE SALVAGED, RECYCLED, AND REUSED. CONTRACTOR SHALL REMOVE ITEMS TO BE SALVAGED WITH EXTREME CAUTION TO PREVENT DAMAGE. CONTRACTOR SHALL TURN ALL SALVAGED ITEMS OVER TO OWNER.
- 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.
- GRAVITY SEWER 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 GRAVITY SEWER PIPE GRADES AND POINTS OF CONNECTION PRIOR TO INSTALLATION. LBVD SHALL BE NOTIFIED OF ANY DEVIATIONS PRIOR TO CONSTRUCTION.
- WATER MAINS 4 INCHES IN DIAMETER AND GREATER SHALL BE DIP(CL 350) AND WATER MAINS LESS THAN 3 INCHES IN DIAMETER SHALL BE PVC (SCHD 40) UNLESS OTHERWISE INDICATED ON THE PLANS.
- WATER MAINS AND SERVICES SHALL BE A MINIMUM OF 10 FEET HORIZONTAL AND 2 FEET VERTICAL FROM ALL SANITARY SEWER MAINS AND LATERALS.
- WATER MAINS AND SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE LOCAL UTILITY COMPANY'S REQUIREMENTS. ALL MAINS AND SERVICES SHALL BE INSTALLED WITH A MINIMUM OF 36" COVER UNLESS OTHERWISE INDICATED ON PLANS.
- ALL SANITARY SEWER MAINS AND LATERALS SHALL BE PVC C900 (CL 150 DR-18) UNLESS OTHERWISE REQUIRED BY THE LOCAL UTILITY COMPANY.
- 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.



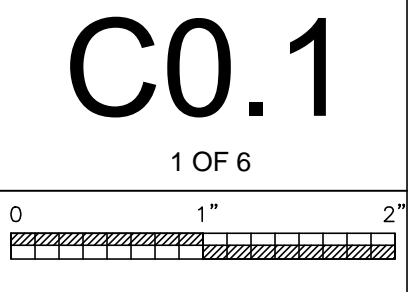
ADDITION AND RENOVATIONS TO CAFETERIA AT
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106 BRECON ACCESS ROAD, TALLADEGA, AL 35160
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SHEET TITLE:
CIVIL NOTES

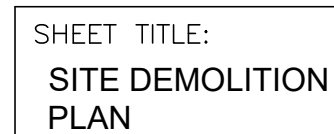
PROJ. MGR.: CAH
DRAWN: LBH
DATE: JULY 8, 2022
REVISIONS

JOB NO. **22-10**
SHEET NO:



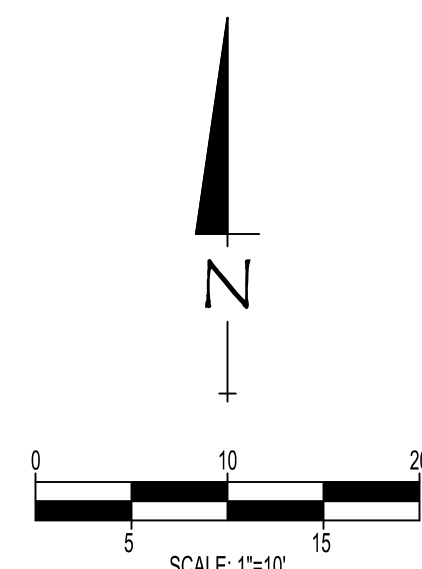
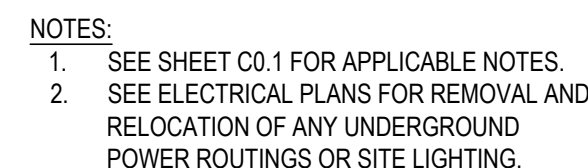


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SALTER ELEMENTARY SCHOOL
106 BRECON ACCESS ROAD, TALLADEGA, AL 35160
TALLADEGA CITY BOARD OF EDUCATION

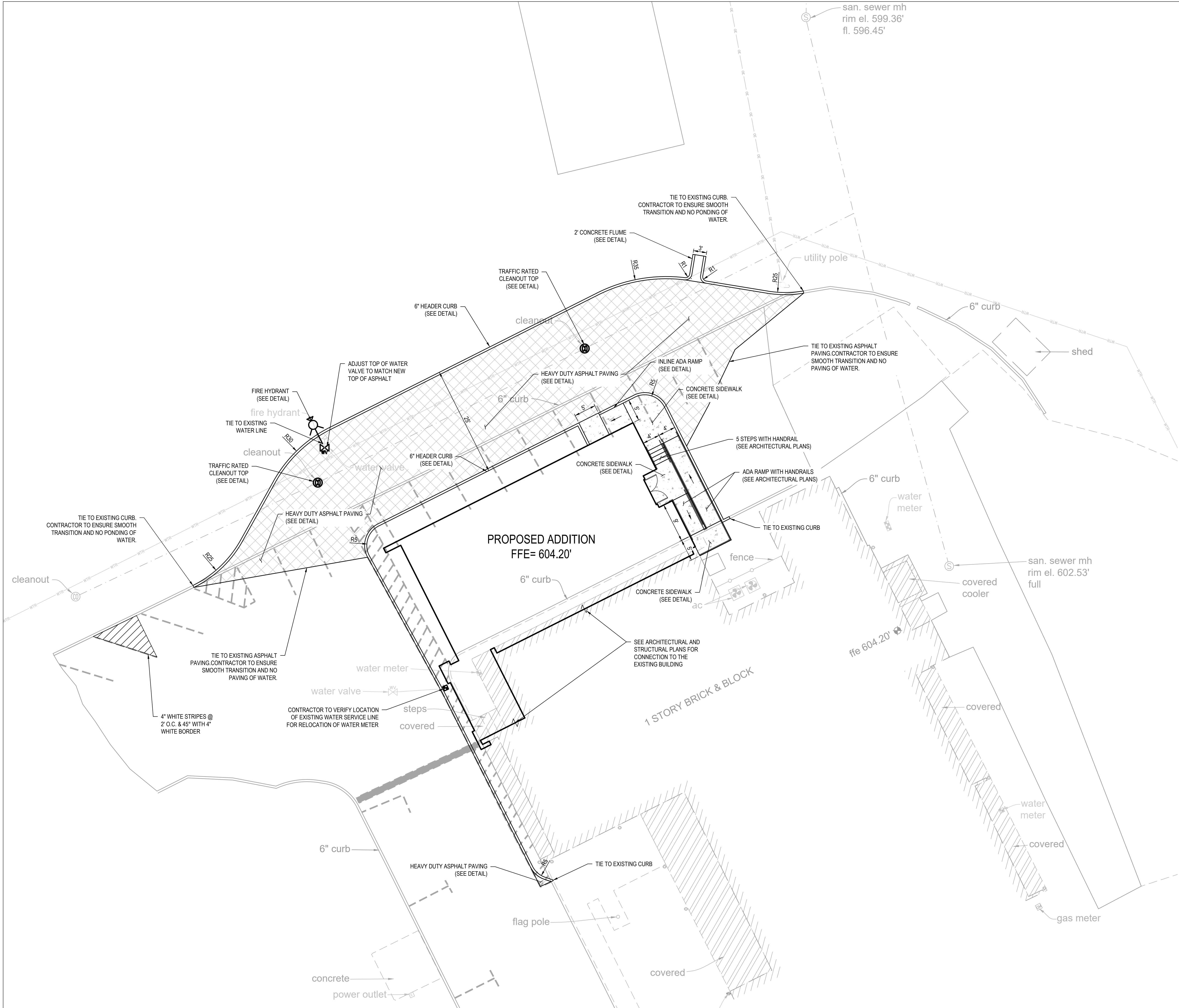


JOB NO. **22-10**

C1.0



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SITE LAYOUT LEGEND

HEAVY DUTY ASPHALT PAVING

CONCRETE SIDEWALK

- NOTES:
- SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.
 - SEE SHEET C3.0 FOR GRADING PLAN



SHEET TITLE:
**SITE LAYOUT AND
UTILITY PLAN**

PROJ. MGR.:	CAH
DRAWN:	LBH
DATE:	JULY 8, 2022
REVISIONS	

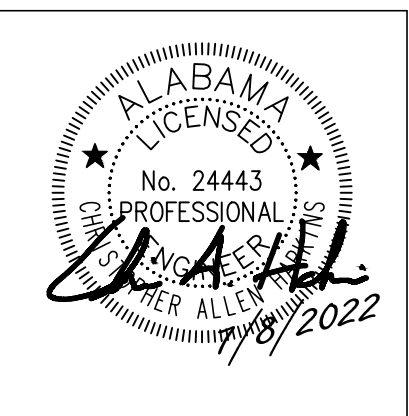
JOB NO. **22-10**

SHEET NO:
C2.0

3 OF 6

0 1" 2"

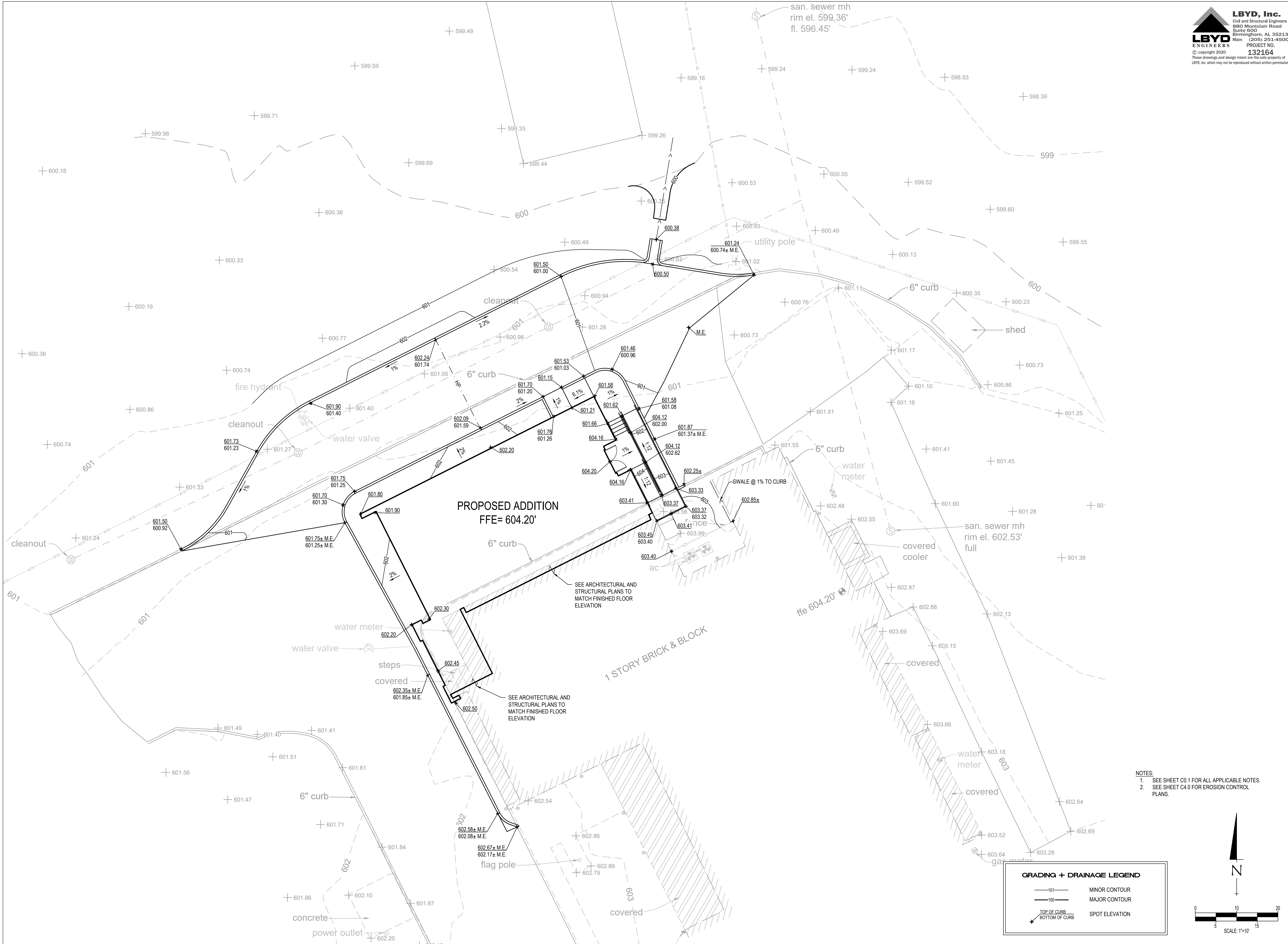
ADDITION AND RENOVATIONS TO CAFETERIA AT
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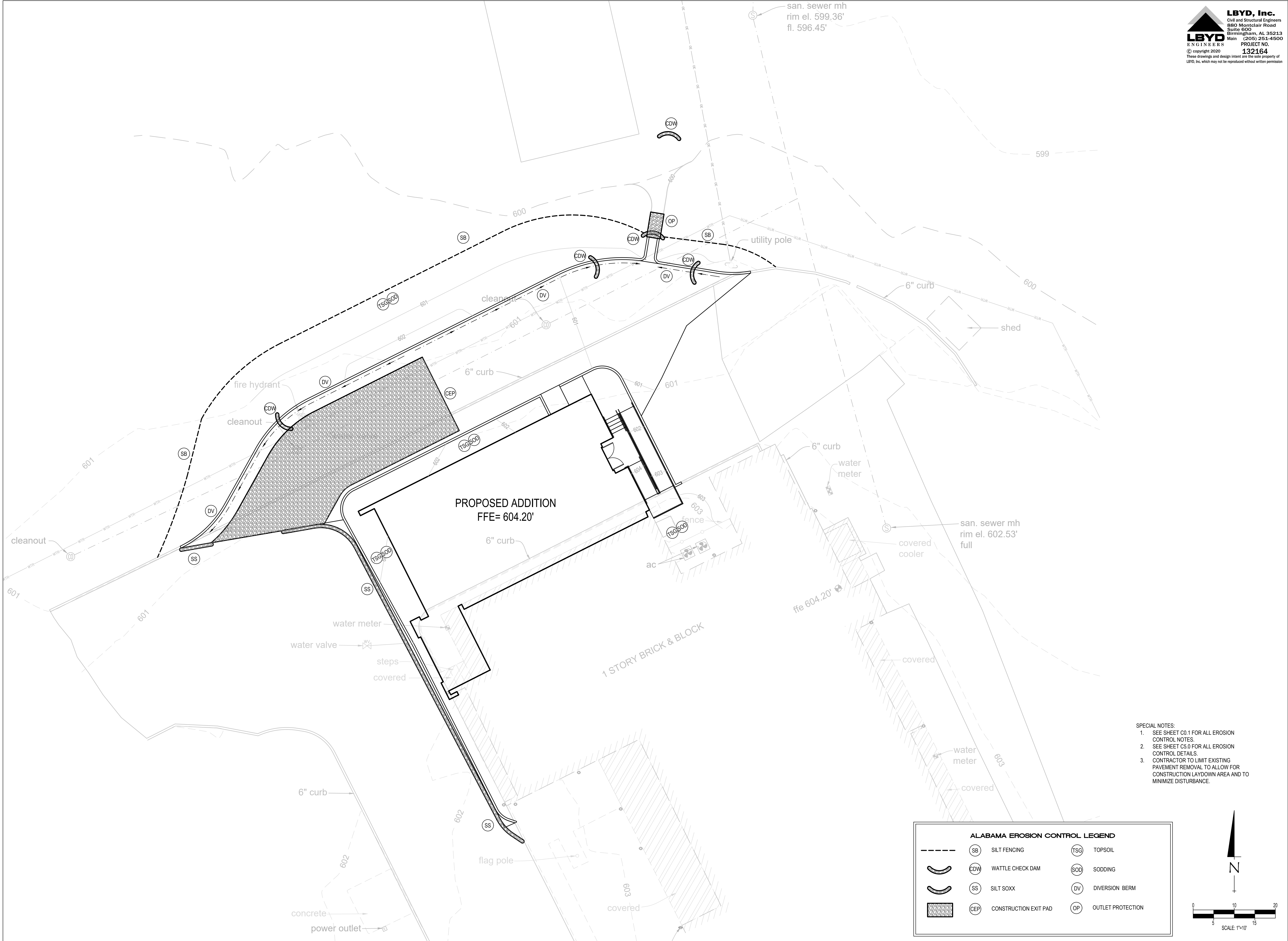


SHEET TITLE:
GRADING PLAN

PROJ. MGR.: CAH
DRAWN: LBH
DATE: JULY 8, 2022
REVISIONS

JOB NO. **22-10**
SHEET NO:
C3.0
4 OF 6

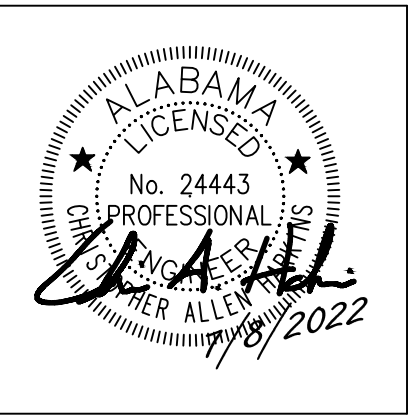




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PROJECT NO. **132164**
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LATHAN
ARCHITECTS
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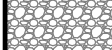


SHEET TITLE:
**EROSION CONTROL
PLAN**

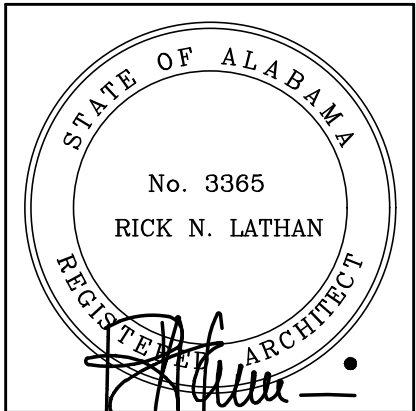
PROJ. MGR.: CAH
DRAWN: LBH
DATE: JULY 8, 2022
REVISIONS

JOB NO. **22-10**
SHEET NO:
C4.0
5 OF 6

- SPECIAL NOTES:
- SEE SHEET C0.1 FOR ALL EROSION CONTROL NOTES.
 - SEE SHEET C5.0 FOR ALL EROSION CONTROL DETAILS.
 - CONTRACTOR TO LIMIT EXISTING PAVEMENT REMOVAL TO ALLOW FOR CONSTRUCTION LAYDOWN AREA AND TO MINIMIZE DISTURBANCE.

ALABAMA EROSION CONTROL LEGEND					
	(SB)	SILT FENCING	(TSG)	TOPSOIL	
	(CDW)	WATTLE CHECK DAM	(SOD)	SODDING	
	(SS)	SILT SOXX	(DV)	DIVERSION BERM	
	(CEP)	CONSTRUCTION EXIT PAD	(OP)	OUTLET PROTECTION	

0	1"	2"
---	----	----



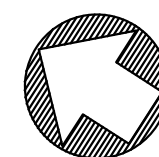
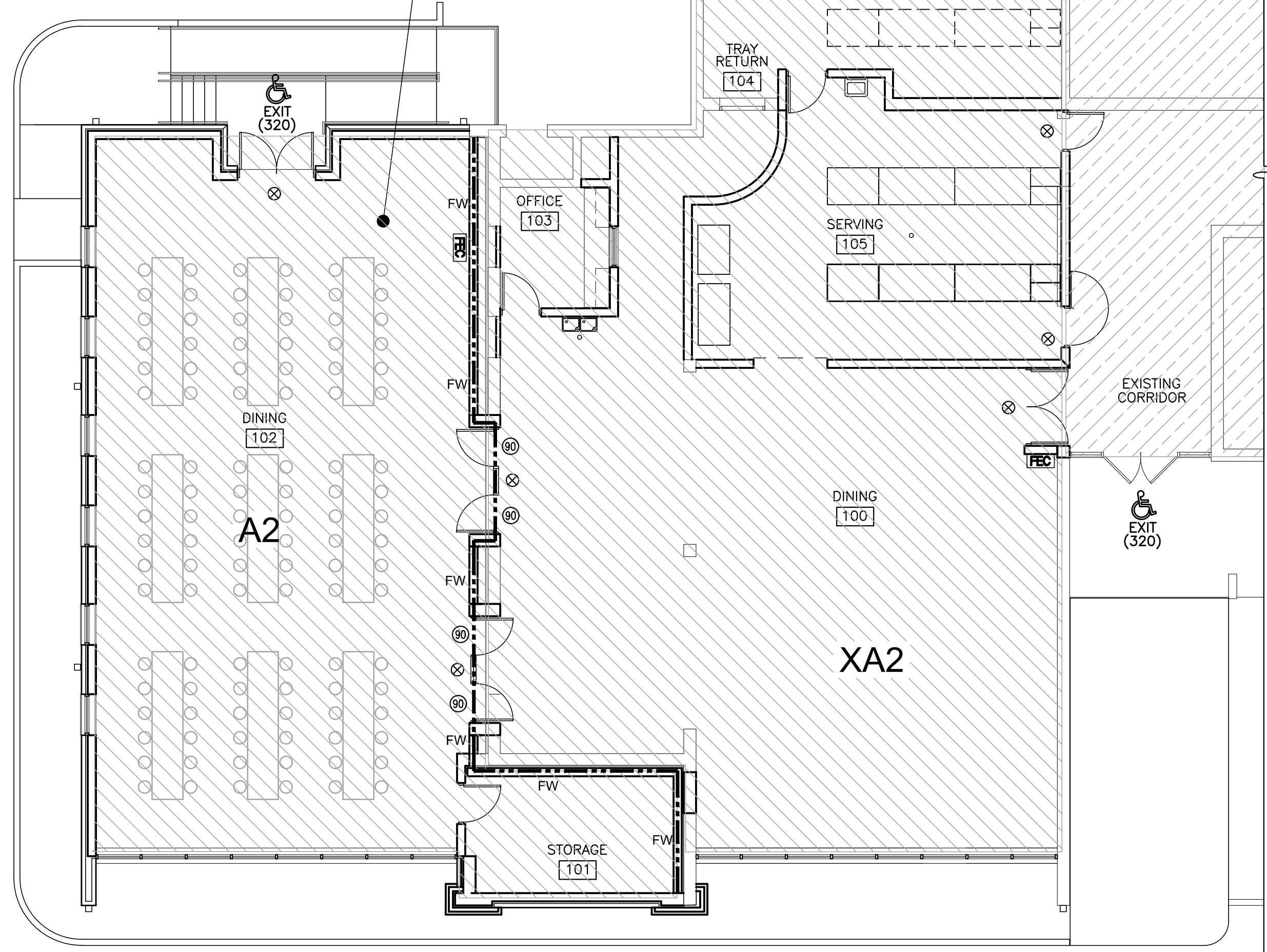
SHEET TITLE:
LIFE SAFETY PLAN AND
DEMOLITION PLAN

PROJ. MGR.: L. BRYANT
DRAWN: HR
DATE: JULY 8, 2022
REVISES

JOB NO. 22-10
SHEET NO:
A1.1
1 OF 11
0 1" 2'

CAFETERIA SEATING CAPACITY 108 PERSONS:
4 WHEEL CHAIR LOCATIONS PROVIDED
4 WHEEL CHAIR LOCATIONS REQUIRED
PER ADAAG T221.2.1.1

TABLE 1004.1 OCCUPANT LOAD:
CAFETERIA EGRESS BASED ON 7 S.F.
PER PERSON @ 1,704/7=244
244x.2 = 48.8" EGRESS
ACTUAL 128"



LIFE SAFETY PLAN

1/8" = 1'-0"

DOOR/WINDOW RATING LEGEND

- 20 MINUTE DOOR AND FRAME
45 MINUTE DOOR AND FRAME
60 MINUTE DOOR AND FRAME
SMOKE RATED AND FRAME
90 MINUTE DOOR AND FRAME
180 MINUTE DOOR AND FRAME

OCCUPANCY USE LEGEND

- A2
GROUP A2 (XA2 - EXISTING)
E
GROUP E (XE - EXISTING)

CHAPTER 29 - PLUMBING SYSTEMS

OCCUPANCY		WATERCLOSETS				LAVATORIES				DRINKING FOUNTAINS		SERVICE SINKS
USE	LOAD	RATIO	MALE	RATIO	FEMALE	RATIO	MALE	RATIO	FEMALE	RATIO	ALL	ALL
A2	225.74	1/75	1.5	1/75	1.5	1/200	.56	1/200	.56	1/500	.45	1
A3	36.61	1/125	.14	1/65	.28	1/200	.1	1/200	.1	1/500	.07	
B	14.45	1/25 FIRST 50 1/50 REMAINDER EXCEEDING 50	.29	1/25 FIRST 50 1/50 REMAINDER EXCEEDING 50	.29	1/40 FIRST 80 1/80 EXCEED 80	.18	1/40 FIRST 80 1/80 EXCEED 80	.18	1/100	.14	
E	936.03	1/50	9.36	1/50	9.36	1/50	9.36	1/50	9.36	1/100	9.36	
S1,S2	3.4	1/100	.02	1/100	.02	1/100	.02	1/100	.02	1/1000	.00	
REQUIRED TOTALS			11.31		11.45		10.22		10.22		10.02	1
PROVIDED TOTALS			21		17		12		12		7	3

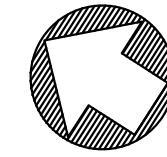
LIFE SAFETY NOTES

- FIRE EXTINGUISHER AND CABINET (PROVIDE FIRE RATED CABINETS IN RATED WALLS.)
FIRE EXTINGUISHER
K-TYPE FIRE EXTINGUISHER
EXIT SIGN
EXIT (320) - EXIT CAPACITY

EXTEND AND KEY ALL RATED WALLS TO BOTTOM OF ROOF ASSEMBLY
STENCIL LABEL ALL RATED WALLS & DRAFT STOPS ABOVE CEILING EACH SIDE @ 20"x7" O.C. MAX.
ALL RATED DOORS AND FRAMES TO BE LABELED WITH EMBOSSED LABELS INDICATING RATING IN MINUTES
COORDINATE W/ ELECTRICAL & MECHANICAL AND PROVIDE CONCRETE EQUIPMENT PAD AS REQUIRED
FW - FIRE WALL

WALL TYPE LEGEND

2 HR WALL



DEMOLITION PLAN

1/8" = 1'-0"

GENERAL DEMOLITION NOTES

PROVIDE ALL DEMOLITION WORK AS REQUIRED TO PROVIDE NEW CONSTRUCTION WHETHER INDICATED OR NOT.
DASHED LINES INDICATE EXISTING CONSTRUCTION TO BE REMOVED. CONTACT ARCHITECT FOR DEMOLITION CLARIFICATION IF UNCLEAR ON WHICH ITEMS ARE TO BE REMOVED.
SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR RESPECTIVE DEMOLITION NOTES
REMOVE ALL ABANDONED MECHANICAL AND ELECTRICAL CONSTRUCTION; CAP/TERMINATE AS REQUIRED
COORDINATE WITH THE OWNER BEFORE REMOVING ANY SALVAGEABLE MATERIALS & EQUIPMENT.
PROTECT ITEMS TO BE RELOCATED OR DESIGNATED AS SALVAGED.
CONTRACTOR SHALL PROTECT EXISTING CONSTRUCTION & SYSTEMS TO REMAIN AND CORRECT ANY DAMAGE RESULTING FROM DEMOLITION WORK.
COORDINATE WITH THE SCOPE OF NEW FINISH WORK TO DETERMINE EXISTING SURFACES TO RECEIVE NEW FINISHES. REMOVE EXISTING FINISHES AND PREP / CLEAN EXISTING SUBSTRATES AS REQUIRED TO RECEIVE NEW FINISHES AS INDICATED. PATCH AND/OR REPAIR EXISTING ADJACENT CONSTRUCTION TO REMAIN. PREP ALL EXISTING PAINTED SURFACES AS REQUIRED TO BE REPAINTED.
CONTACT AND COORDINATE W/ ARCHITECT BEFORE REMOVING OR ALTERING STRUCTURAL COMPONENTS.
SEE RESPECTIVE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
DEMOLITION WORK SHALL NOT CHANGE THE INTEGRITY OF EXISTING STRUCTURE, FIRE ALARM SYSTEM, & FIRE RATED CONSTRUCTION TO REMAIN. ANY EXISTING FIRE RATED CONSTRUCTION TO REMAIN WHICH HAS BEEN AFFECTED BY DEMOLITION WORK MUST BE CORRECTED AND MADE TO MEET THE ORIGINAL RATINGS.
CLEAN ALL EXISTING INTERIOR FINISHED SURFACES TO REMAIN, WHETHER INDICATED OR NOT.
PREP ALL SURFACES TO BE REPAINTED AS REQUIRED

DEMOLITION LEGEND

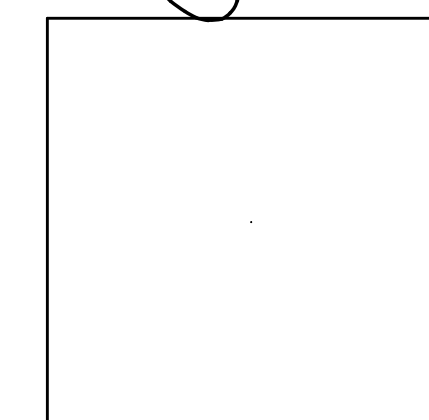
- EXISTING TO BE REMOVED
EXISTING TO REMAIN
KEY NOTE SYMBOL (REFER TO CORRESPONDING DEMOLITION KEY NOTES)

DEMOLITION KEY NOTES

- REMOVE EXISTING DOOR, FRAME AND ASSOCIATED HARDWARE.
REMOVE EXISTING FINISHED CEILING SYSTEM.
REMOVE EXISTING WATER FOUNTAIN AND ASSOCIATED CONSTRUCTION. SEE MP&E FOR REQUIRED MODIFICATIONS. PATCH AND REPAIR ADJACENT WALL / FINISH AS REQUIRED TO MATCH ORIGINAL.
REMOVE EXISTING VCT FLOORING TO THE EXISTING FLOOR SLAB AND ASSOCIATED ADHESIVE AND BASE CONSTRUCTION AS REQUIRED. CLEAN AND PREP EXISTING FLOOR SLAB SURFACE PER THE MANUFACTURER'S RECOMMENDATIONS IN ORDER TO ACCEPT NEW FINISH FLOOR SYSTEM.
REMOVE EXISTING WALL MOUNTED EQUIPMENT, INCLUDING BUT NOT LIMITED TO, SOUND SYSTEM, TV'S, SIGNAGE, WALL DECALS, ETC. AS REQUIRED. COORDINATE WITH OWNER ON ANY SALVAGEABLE MATERIALS. PATCH, REPAIR, PREP WALL SUBSTRATE AS REQUIRED TO MATCH ADJACENT WALL APPEARANCE AND TO RECEIVE NEW PAINT FINISH.
REMOVE EXISTING FRAMED PARTITIONS AND ASSOCIATED MILLWORK AND ELECTRICAL, THIS AREA COORDINATE WITH OWNER ON ANY SALVAGEABLE MATERIALS
REMOVE EXISTING WINDOW AND / OR WINDOW SYSTEM
REMOVE EXISTING MECHANICAL EQUIPMENT AND ASSOCIATED WORK THIS AREA
SELECTIVELY REMOVE PORTIONS OF EXISTING MASONRY WALL AND ASSOCIATED CONSTRUCTION, WHERE APPLICABLE, REMOVE AS SUCH TO ALLOW TOOTHING-IN AND BLENDING OF NEW MASONRY WORK TO MATCH EXISTING.
REMOVE EXISTING CANOPY SYSTEM AND ASSOCIATED HARDSCAPE CONSTRUCTION THIS AREA AS REQUIRED TO PROVIDE NEW CONSTRUCTION.
REMOVE PORTIONS OF EXISTING ROOF CONSTRUCTION THIS AREA AS REQUIRED TO PROVIDE AND BLEND NEW ROOF CONSTRUCTION.
EXISTING KITCHEN SERVING EQUIPMENT TO BE PROTECTED, DISCONNECTED, RELOCATED AND RECONNECTED IN NEW LOCATION WHERE INDICATED.
EXISTING MECHANICAL DUCT CONSTRUCTION EXPOSED THIS AREA TO BE MODIFIED AS REQUIRED TO BE CONCEALED ABOVE NEW CEILING SYSTEM, SEE MECHANICAL.
REMOVE EXISTING CONCRETE SIDEWALK, HARDSCAPE OR PAVING THIS AREA AS REQUIRED TO PROVIDE NEW CONSTRUCTION.



ADDITION AND RENOVATIONS TO CAFETERIA AT
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PROJ. MGR.: L. BRYANT
DRAWN: C. BRYANT
DATE: JULY 8, 2022
REVISIONS

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JOB NO. 22-10

SHEET NO:

A2.1

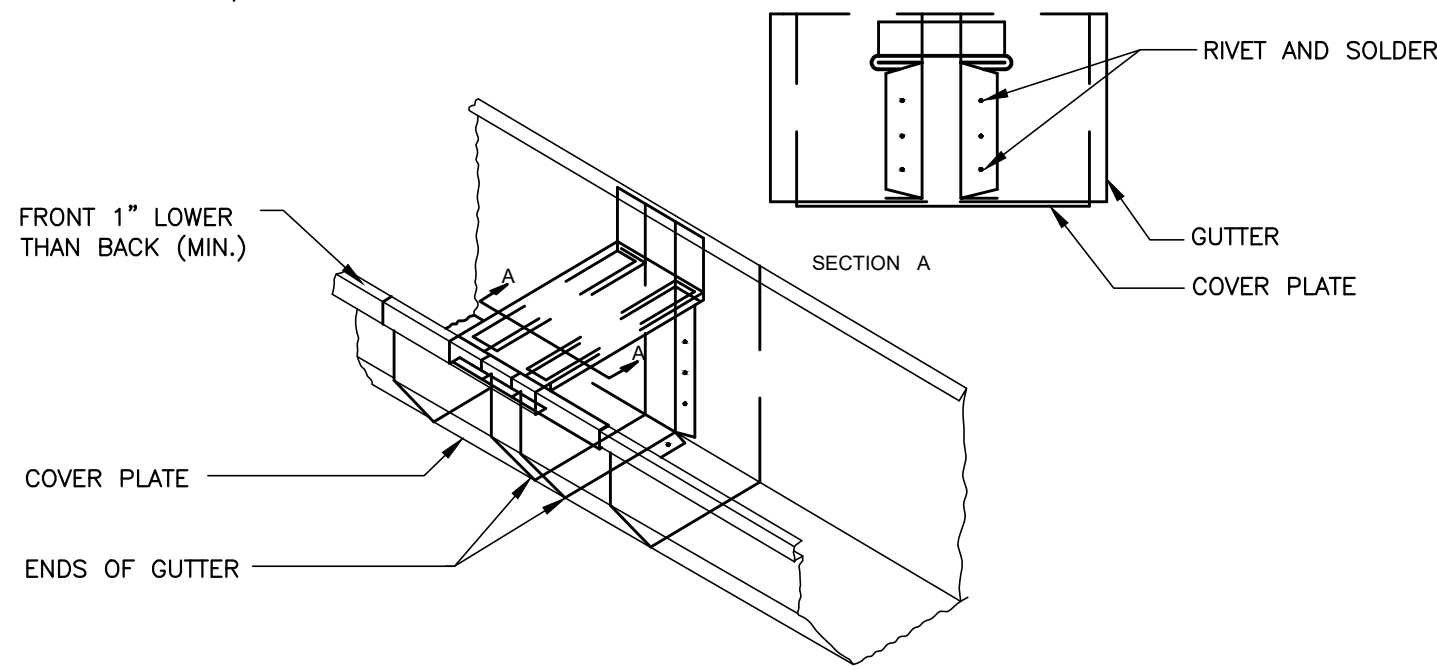
2 OF 11

0 1"

A horizontal graphic scale bar with a hatched pattern. It is marked with "0" at the left end and "1\"" at the right end. There are four equal segments between the 0 and 1 inch marks, each representing 0.25 inches.

DOOR FIRE RATING LEGEND	
DOOR TYPE (2)	NO RATING
DOOR TYPE + A (2A)	20 MINUTE RATING
DOOR TYPE + D (2D)	90 MINUTE RATING

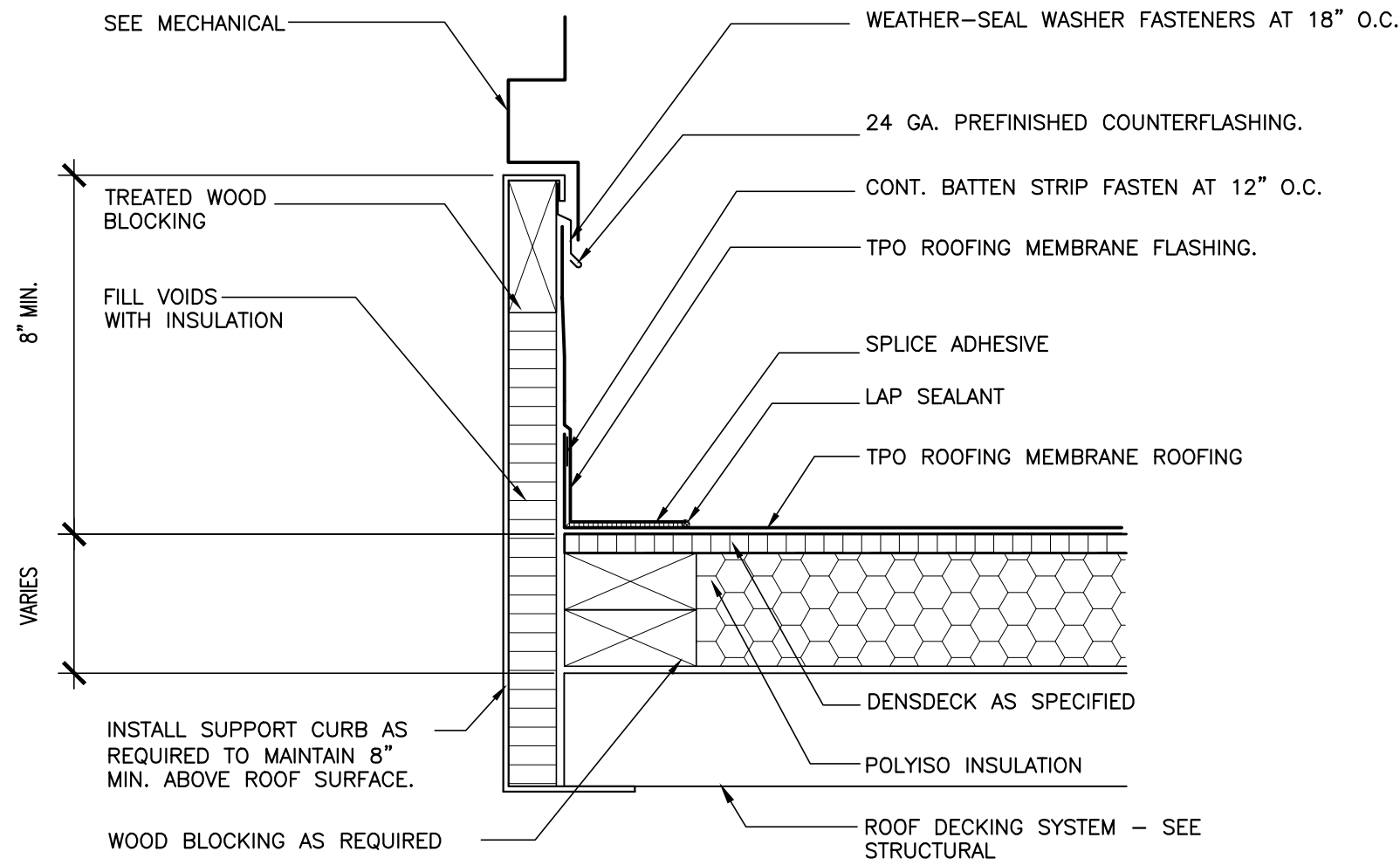
NOTE: THE INTENT OF THIS DETAIL IS TO SHOW EXPANSION JOINT ASSEMBLY ONLY; GUTTER STYLES MAY DIFFER.



1 GUTTER EXPANSION JOINT DETAIL

SCALE: 3" = 1'-0"

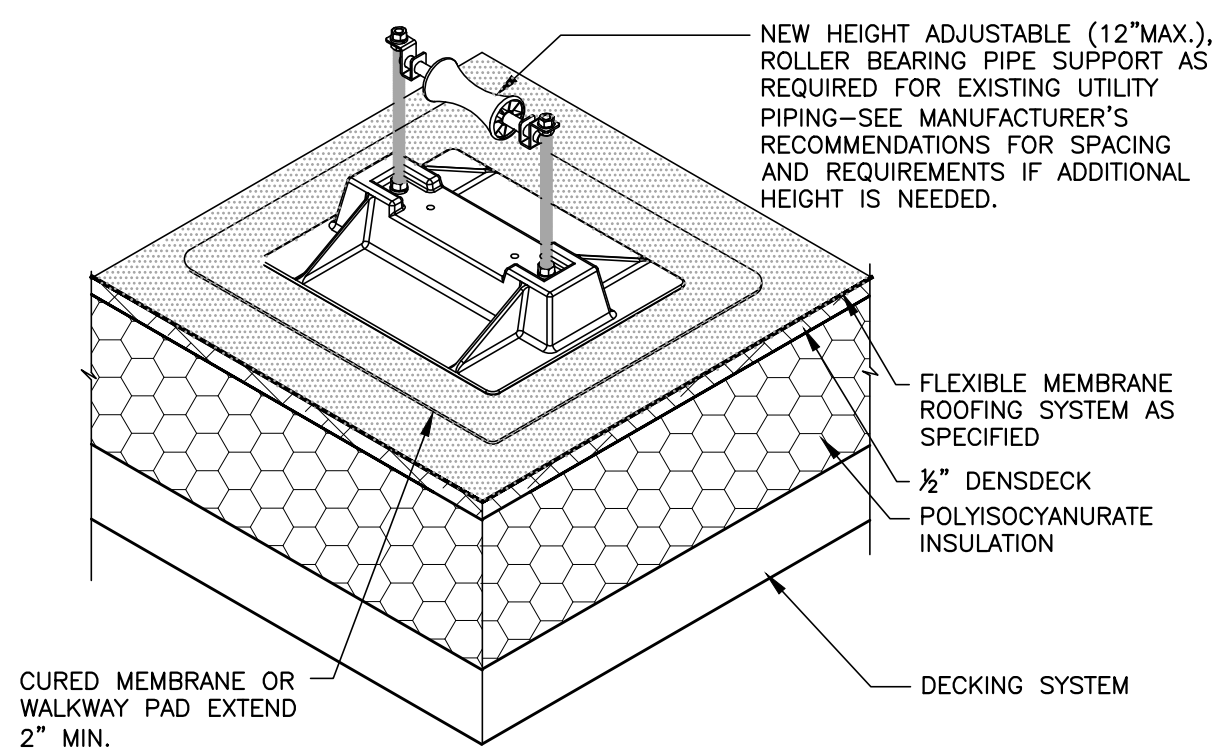
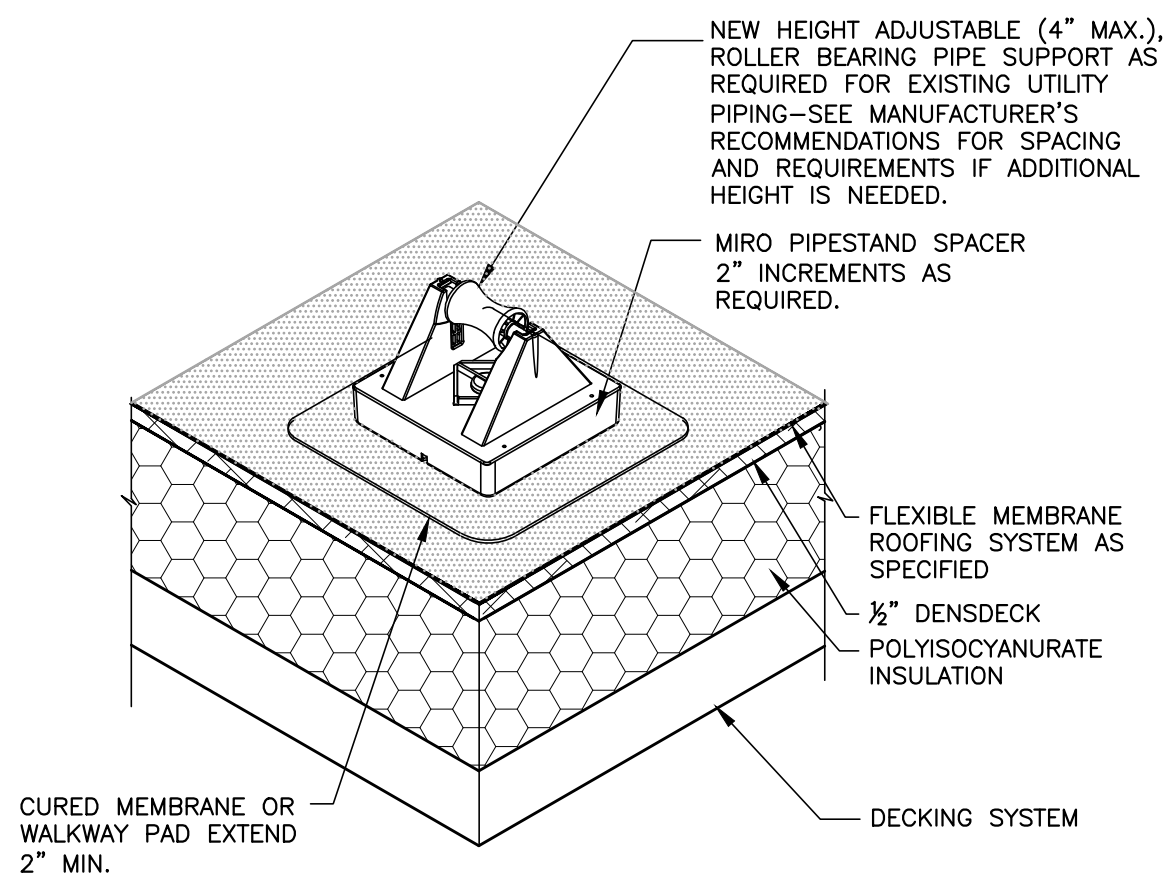
TYPICAL



2 RTU CURB DETAIL

SCALE: 3" = 1'-0"

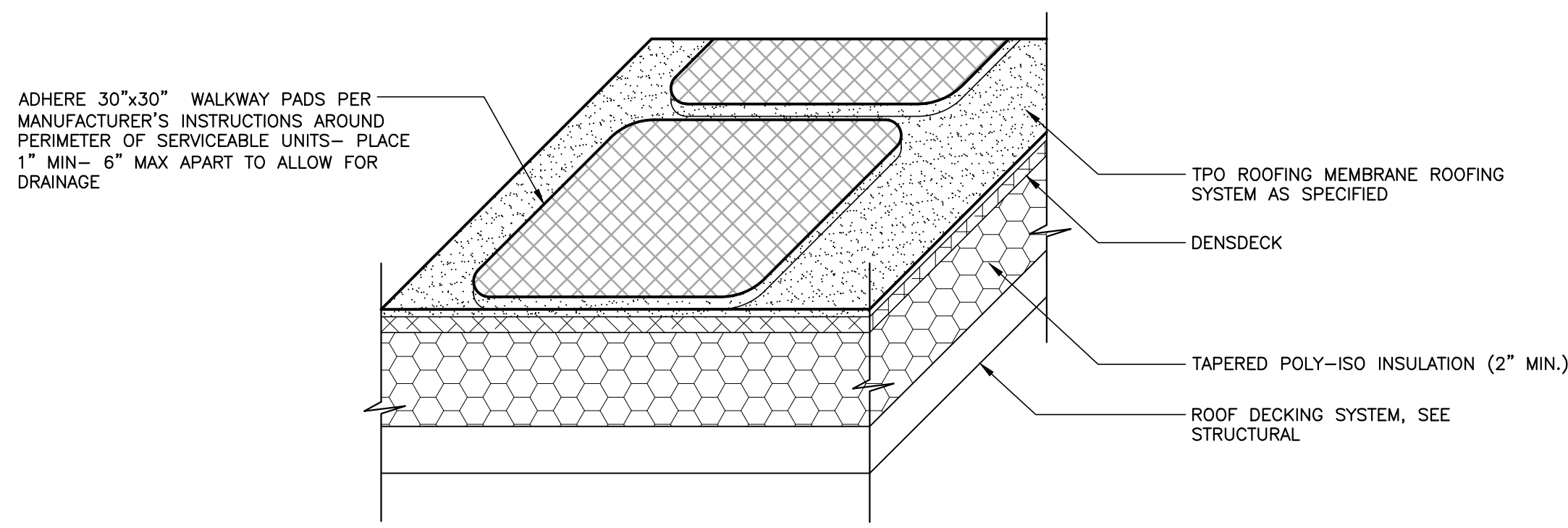
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3 PIPE SUPPORT DETAIL

SCALE: 3" = 1'-0"

TYPICAL

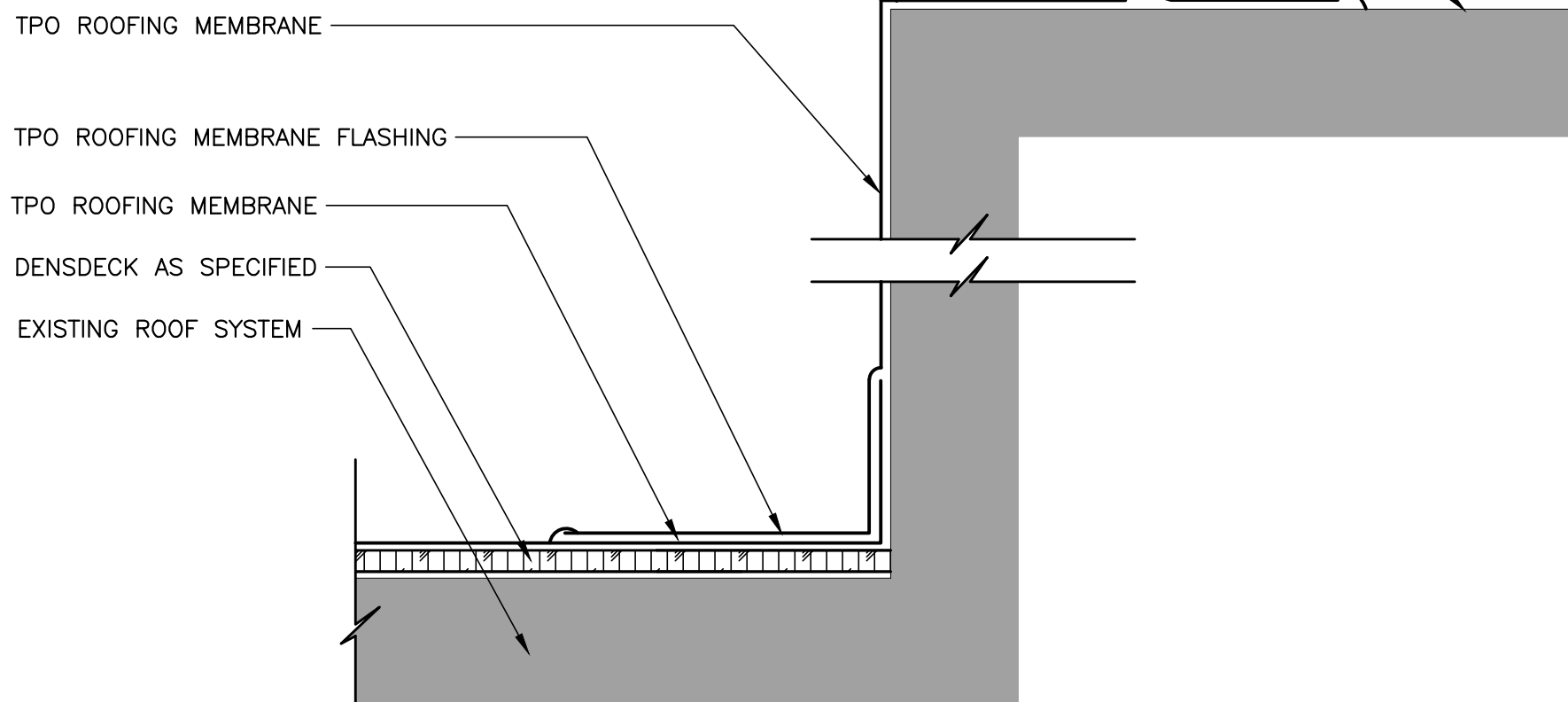


4 WALKWAY PAD DETAIL

SCALE: 3" = 1'-0"

TYPICAL

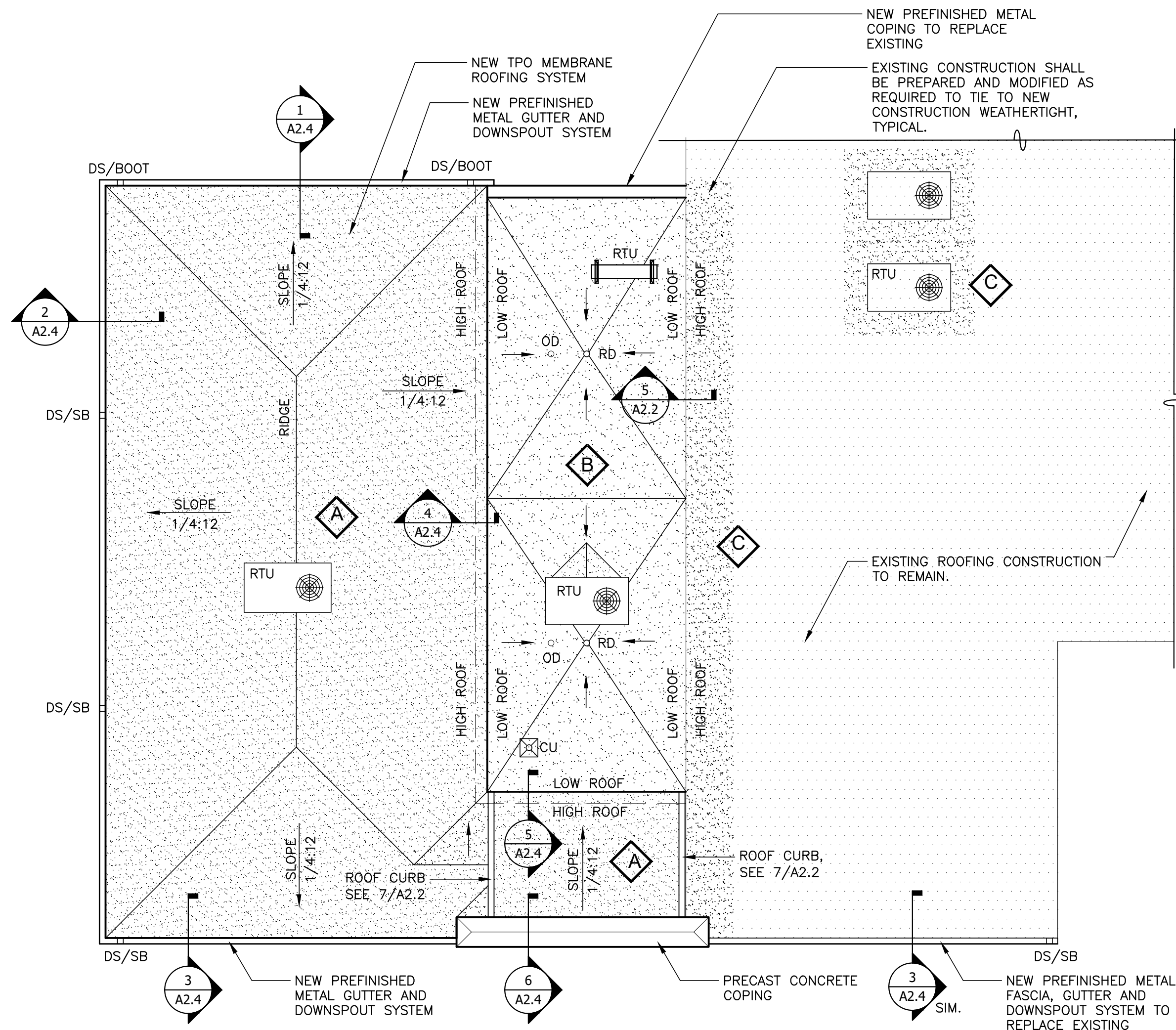
EXISTING CONSTRUCTION TO REMAIN PROTECT AS REQUIRED
TRANSITION FLASHING AS REQUIRED TO BE COMPATIBLE WITH EXISTING AND NEW ROOFING SYSTEMS, TYPICAL.



5 ROOF TO WALL FLASHING DETAIL

SCALE: 3" = 1'-0"

TYPICAL



6 ROOF PLAN

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

GENERAL ROOFING SCOPE

A

PROVIDE NEW TPO ROOFING SYSTEM WITH COVER BOARD AND TAPERED ROOF INSULATION OVER NEW CONCRETE ROOF DECK SYSTEM; ROOF INSULATION SHALL BE NO LESS THAN 2" THICK. ADHERE TO THE DECK AND PROVIDED WITH A MINIMUM OF 1/4 : 12 SLOPE; STAGGER AND TAPE ALL JOINTS AS REQUIRED.

ROOF SYSTEM R VALUE -
OUTSIDE AIR FILM - 17
TPO - 10
1/2" GYPSUM BOARD - 45
2" MIN. POLY-ISO - 11.4
3" TOPPING SLAB - 23
8" INSULATED HOLLOW CORE - 3.14
INSIDE AIR FILM HEAT FLOR DOWN - 92

R-16.41 / U - .61

SEE COMCHECK REPORT

B

FIELD INVESTIGATE FOR ANY POSSIBLE EXISTING WET ROOF INSULATION; CONTACT THE ARCHITECT IF DISCOVERED FOR CORRECTIVE DIRECTIONS. OTHERWISE OR UPON CORRECTIONS OF SUCH, PREPARE EXISTING ROOFING SURFACE AS REQUIRED AND PROVIDE NEW TPO RE-COVER ROOFING SYSTEM WITH NEW COVER BOARD OVER EXISTING ROOF SYSTEM HAVING STEEL ROOF DECK; ADHERE TO THE COVER BOARD, MAINTAIN POSITIVE SLOPE TO MATCH EXISTING.

INTERCEPT EXISTING ROOF DRAIN PIPING ABOVE CEILING AND PROVIDE NEW REROUTED PIPING, OF SAME MATERIAL, CONCEALED WITHIN THE NEW CONSTRUCTION TO EXIT SIMILARLY AT AND ONTO GRADE. SUBJECT TO DIRECTION BY ARCHITECT.

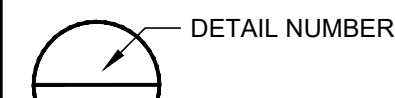
C

FIELD VERIFY EXISTING ROOFING SYSTEM AND COORDINATE WITH THE OWNER AS TO IF AN EXISTING ROOF WARRANTY IS APPLICABLE, IF SO ADHERE TO REQUIREMENT TO MAINTAIN ACTIVE. PROVIDE NEW MODIFICATION TO THE EXISTING ROOFING SYSTEM AS REQUIRE AND WHERE REQUIRED TO TIE AND BLEND NEW WORK AND EXISTING WORK TOGETHER WEATHERTIGHT, TYPICAL.

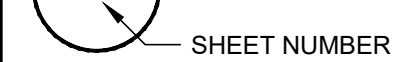
ROOF GENERAL NOTES

- DOWNSPOUTS SHOWN ON THIS SHEET ARE SHOWN AS REFERENCE. CONTRACTOR TO SEE ELEVATIONS FOR DOWNSPOUT LOCATIONS AND TO AVOID ANY CONFLICT WITH DOORS, WINDOWS, AND HEAVY TRAFFIC AREAS.
- GUTTERS SHALL NOT EXCEED 50' IN LENGTH WITHOUT A GUTTER EXPANSION JOINT.
- PROVIDE WALKWAY PADS AT THE IMMEDIATE PERIMETER OF ALL ROOF MOUNTED MECHANICAL EQUIPMENT, SEE DETAIL.
- SEE MECHANICAL, PLUMBING AND ELECTRICAL FOR ADDITIONAL ROOF WORK AND PENETRATIONS; MAKE ALL PENETRATIONS WEATHERTIGHT UNDER ROOFING SCOPE OF WORK.
- EACH INDIVIDUAL CONDITION, ETC. MAY NOT HAVE A DETAIL DESIGNATION BUBBLE FOR CLARITY PURPOSES; HOWEVER, EACH DETAIL APPLIES TYPICALLY TO ALL CONDITIONS OF THAT TYPE.
- WHERE ROOF CURBS EXCEED 30" IN LENGTH PROVIDE CRICKETS SLOPED TO DRAIN. WHERE NEW EQUIPMENT IS TO BE PROVIDED ON AREAS OF EXISTING ROOF CONSTRUCTION, MODIFY EXISTING ROOFING AS REQUIRED TO PROVIDE NEW ROOF CRICKET SYSTEM WITH COMPATIBLE MATERIALS; MAINTAIN WEATHERTIGHTNESS.
- PROVIDE POSITIVE DRAINAGE AT ALL ROOF AREA.
- DO NOT CONCENTRATE MATERIAL LOADS ON THE ROOF.
- DO NOT STORE MATERIALS ON THE ROOF.
- NEW TAPERED ROOF INSULATION SHALL BE MIN. 2" THICK AT STARTING EDGE.
- ROOF TOP MECHANICAL EQUIPMENT SHALL BE A MINIMUM OF 10'-0" FROM ROOF EDGE. AT ANY LOCATION WHERE EQUIPMENT IS WITHIN 10'-0" OF ROOF EDGE PROVIDE GUARDRAIL SYSTEM WHETHER INDICATED OR NOT.
- FIELD VERIFY LOCATIONS OF EXISTING ROOF DRAINS AND OVERFLOW DRAINS AND PROVIDE NEW ROOFING WORK AS REQUIRED TO MAINTAIN POSITIVE SLOPE TO DRAIN.

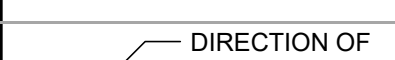
ROOF LEGEND



DETAIL NUMBER



SHEET NUMBER



DIRECTION OF DOWNSPOUT RD SLOPE



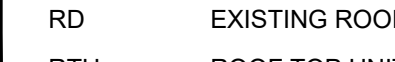
ROOF SLOPE MARKER



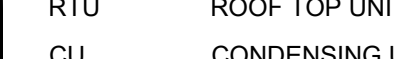
RISE/RUN



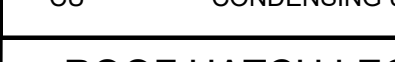
DS/ SB



RD



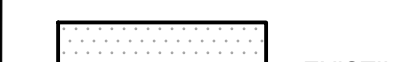
RTU



CU



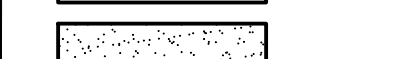
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EX



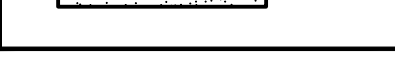
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EXISTING



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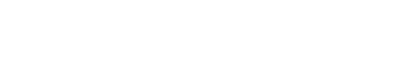
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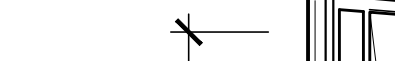
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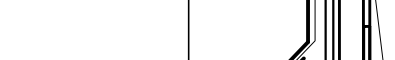
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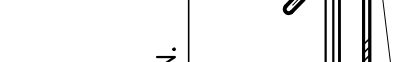
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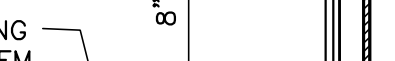
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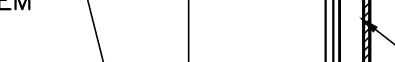
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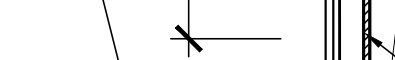
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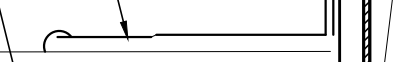
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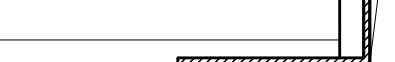
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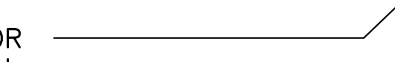
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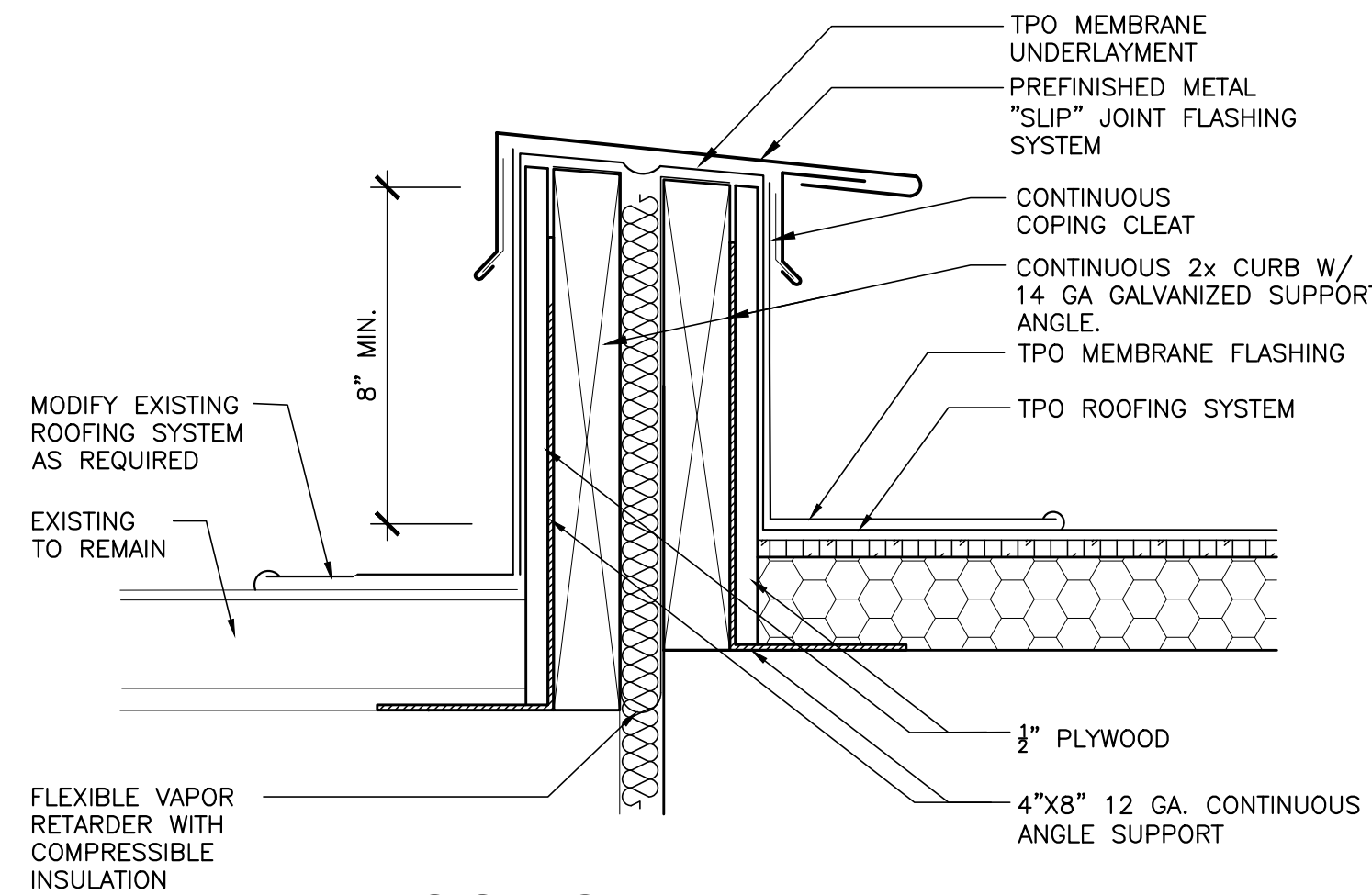
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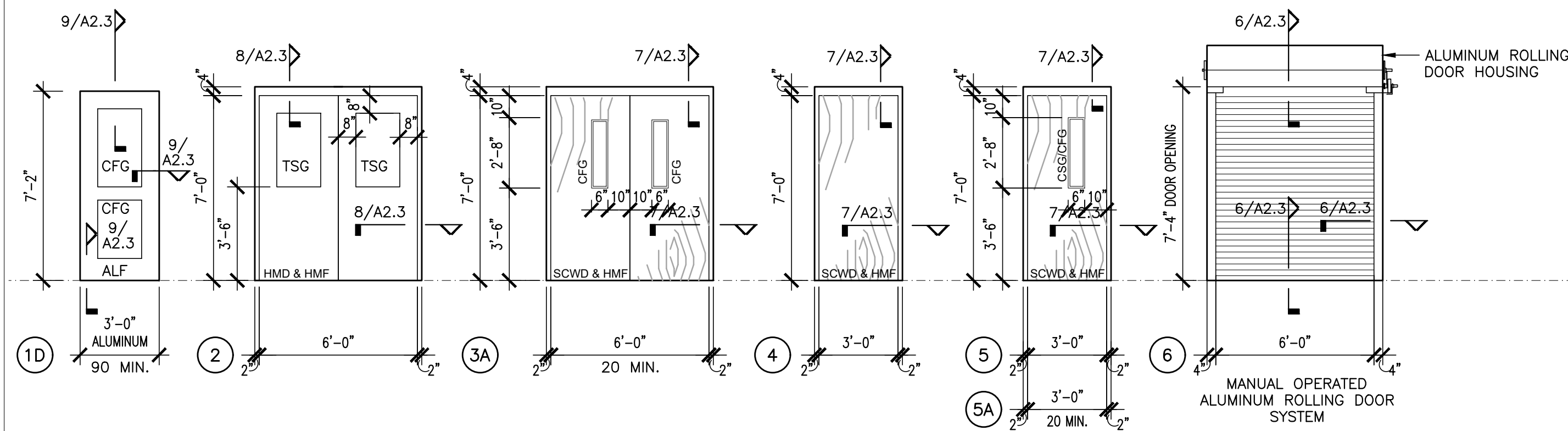


EXISTING

7 ROOF CURB DETAIL

SCALE: 3" = 1'-0"





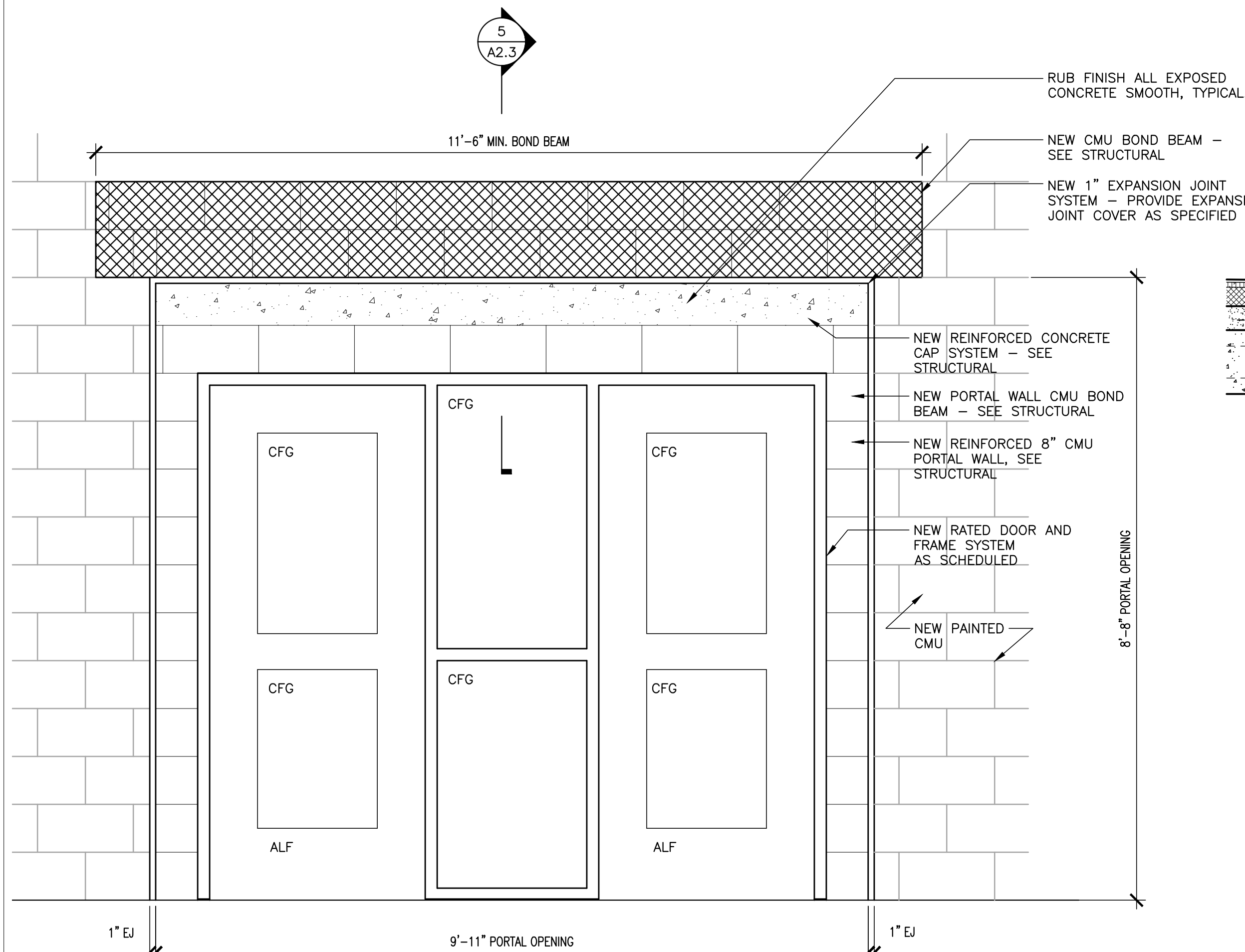
1 DOOR AND FRAME SCHEDULE

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

NOTE: PROVIDE CFG AT DOOR TYPE 5A

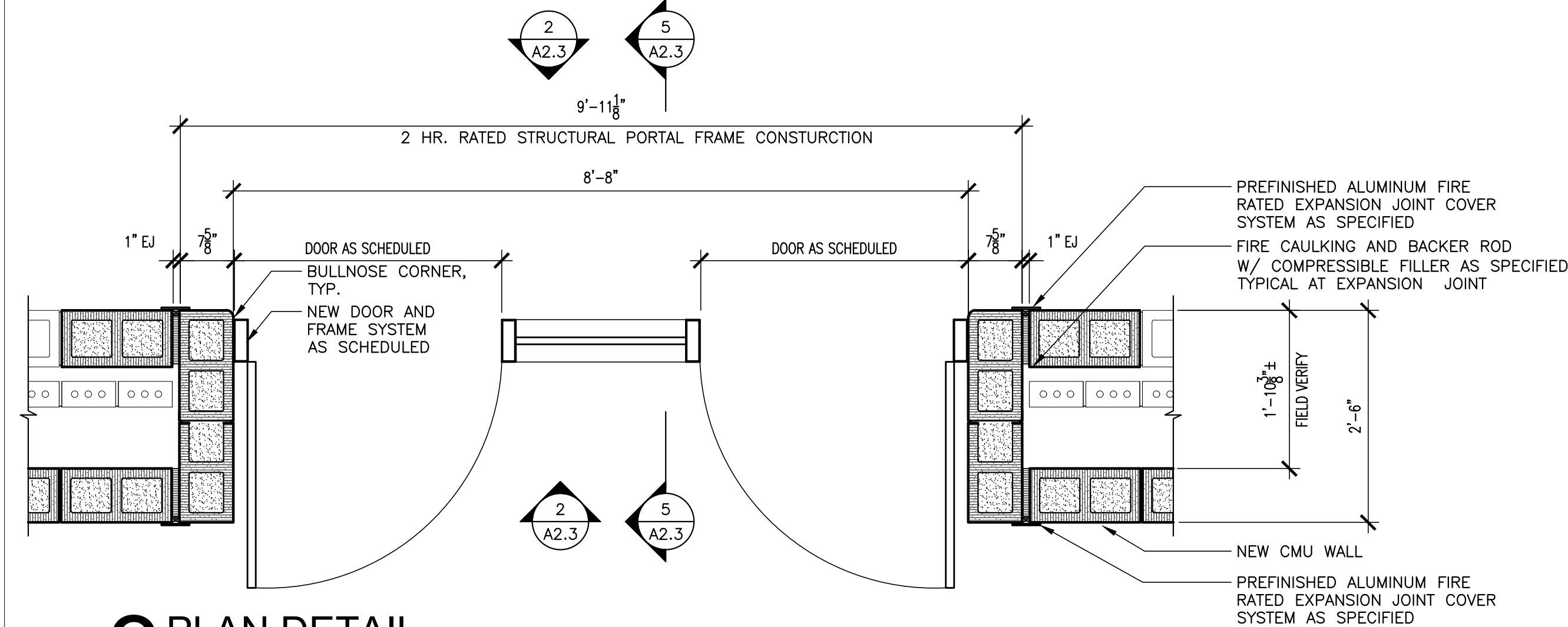
4 STOREFRONT SCHEDULE

1/4" = 1'-0"



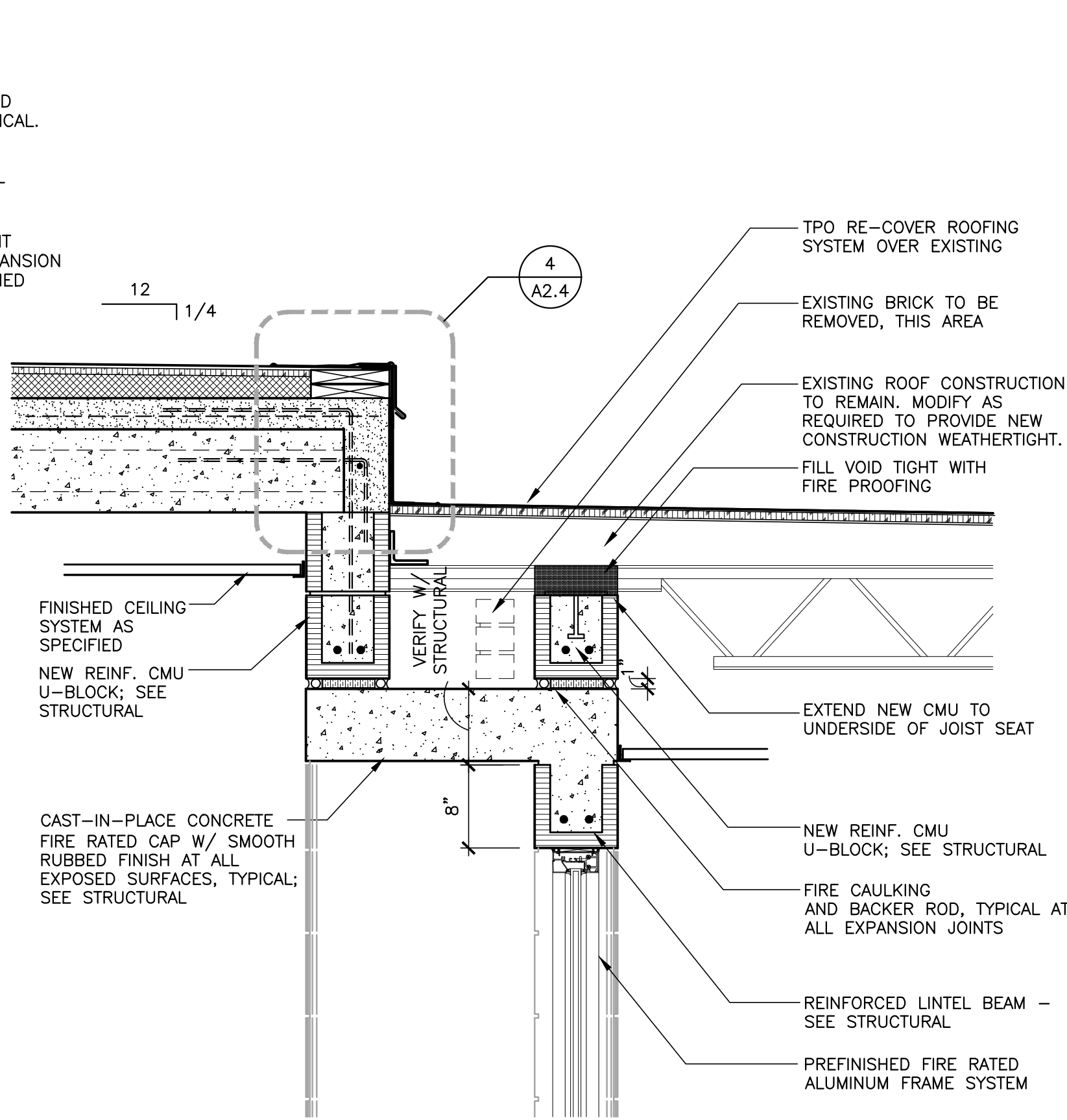
2 ENLARGED ELEVATION

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



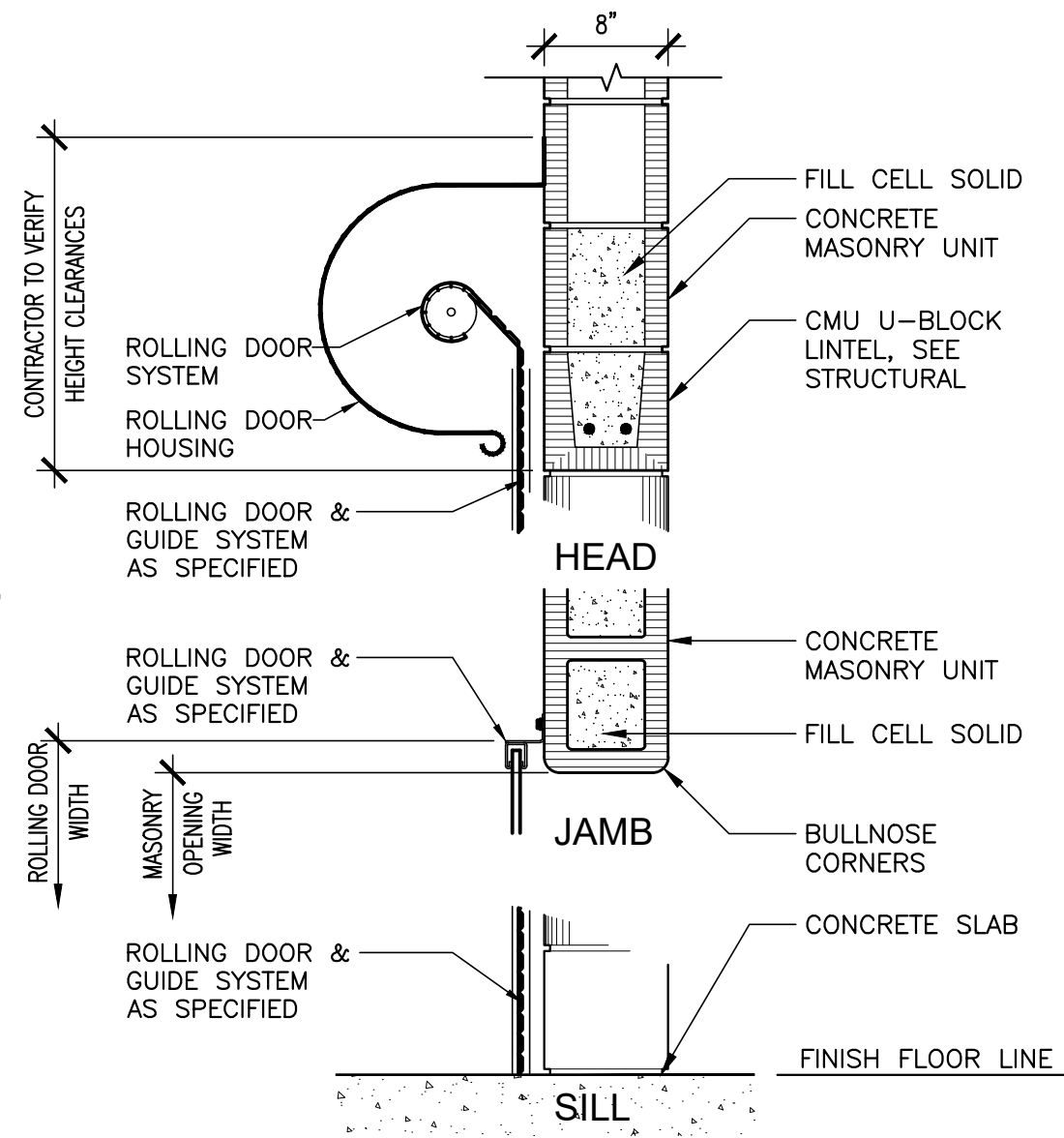
3 PLAN DETAIL

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



5 SECTION DETAIL

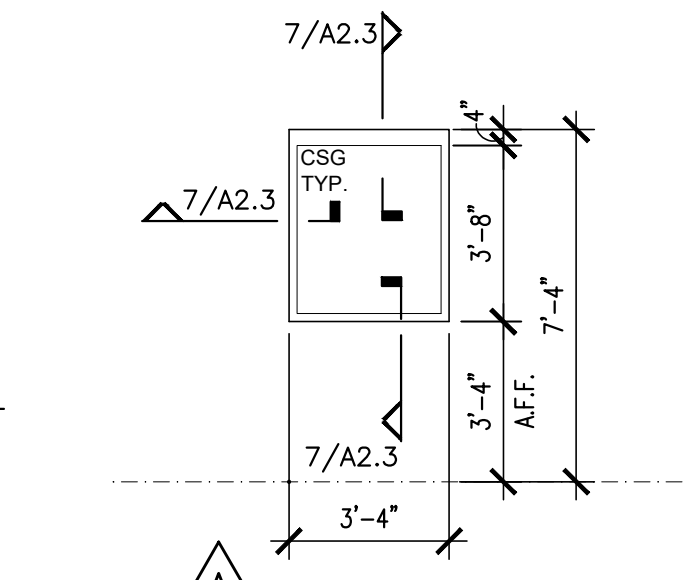
SCALE: 1" = 1'-0"



6 DETAIL

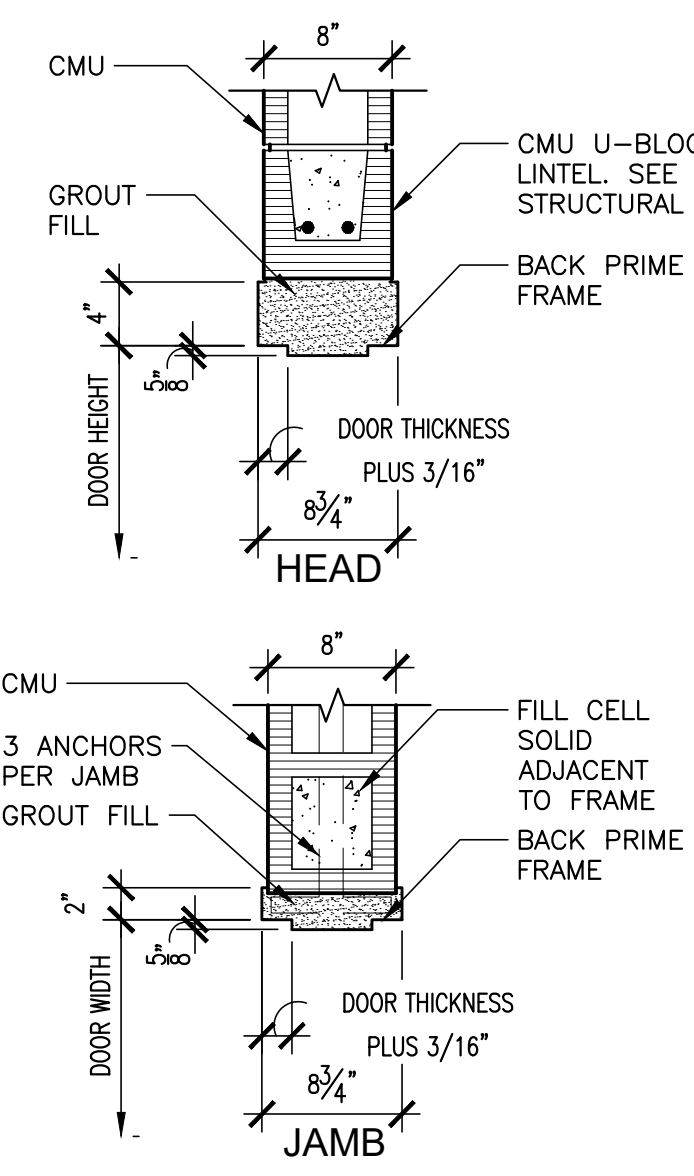
SCALE: 1" = 1'-0"

DOOR AND WINDOW LEGEND	
CSG	1/4" THICK CLEAR TEMPERED SAFETY GLASS.
CFG	5/16" THICK CLEAR FIRE RATED SAFETY GLASS.
TSG	1" TINTED INSULATED LOW-E TEMPERED SAFETY GLASS AS SPECIFIED
ASF	PREFINISHED ALUMINUM STOREFRONT FRAME SYSTEM AS SPECIFIED
SCWD	SOLID CORE WOOD DOOR
HMD	HOLLOW METAL DOOR
HMF	HOLLOW METAL FRAME
SPSG	1" SPANDREL INSULATED TEMPERED SAFETY GLASS AS SPECIFIED
HO	HOLD OPEN TIED TO FIRE ALARM SYSTEM
ALF	STOREFRONT SYSTEM AS SPECIFIED PREFINISHED ALUMINUM FIRE RATED DOOR / FRAME SYSTEM PER ASTM E119



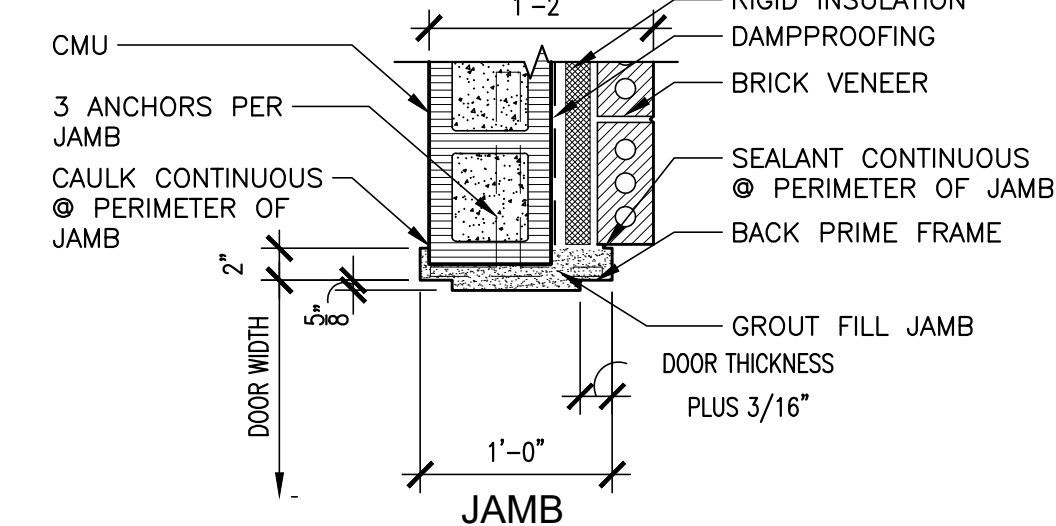
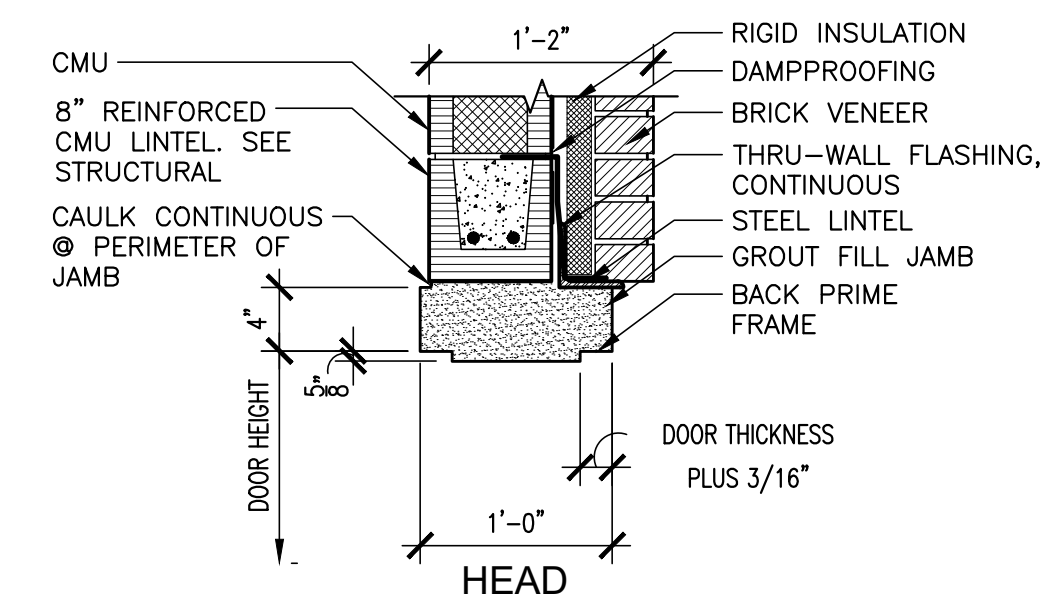
A HOLLOW METAL VIEW WINDOW

1/4" = 1'-0"



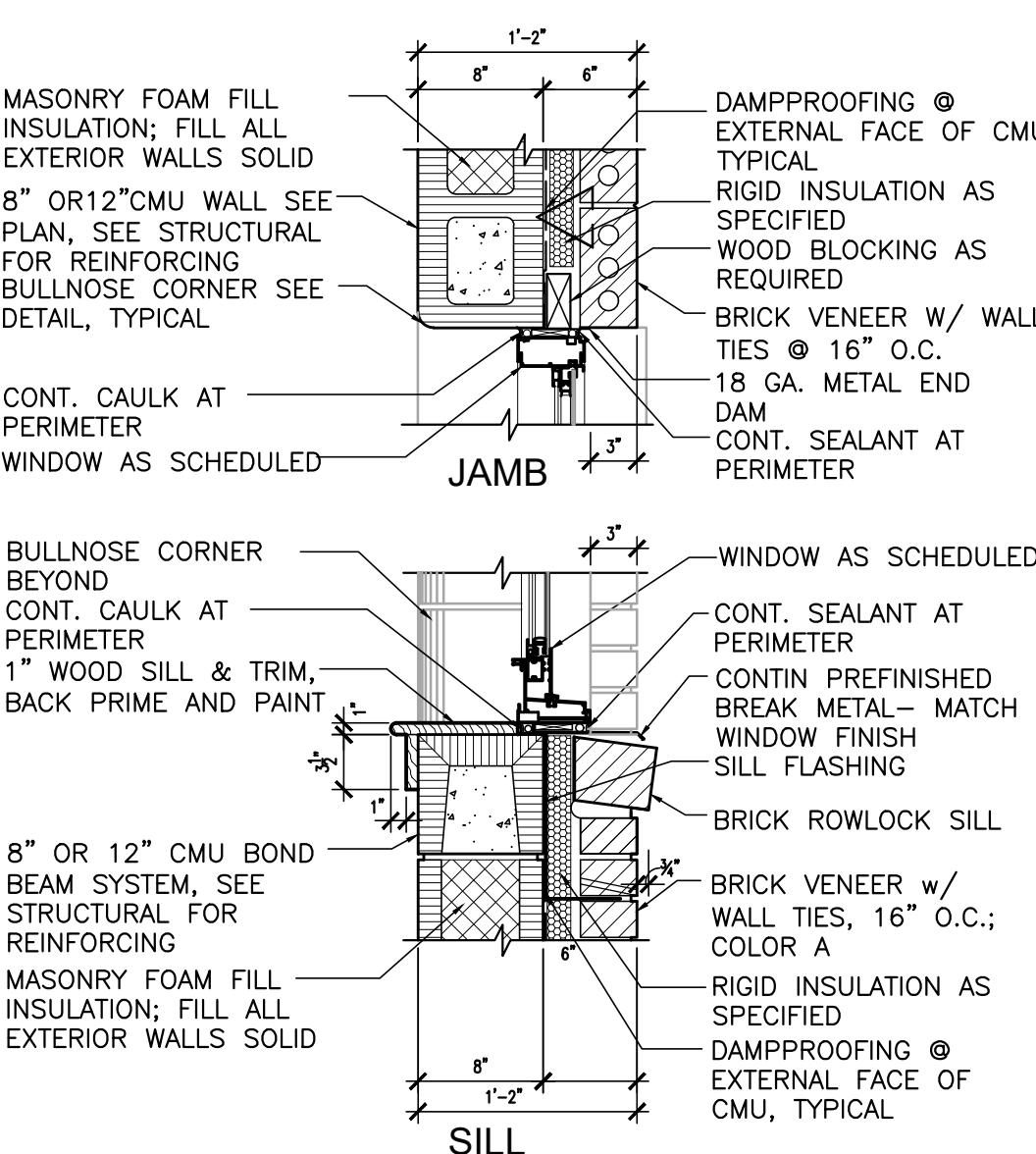
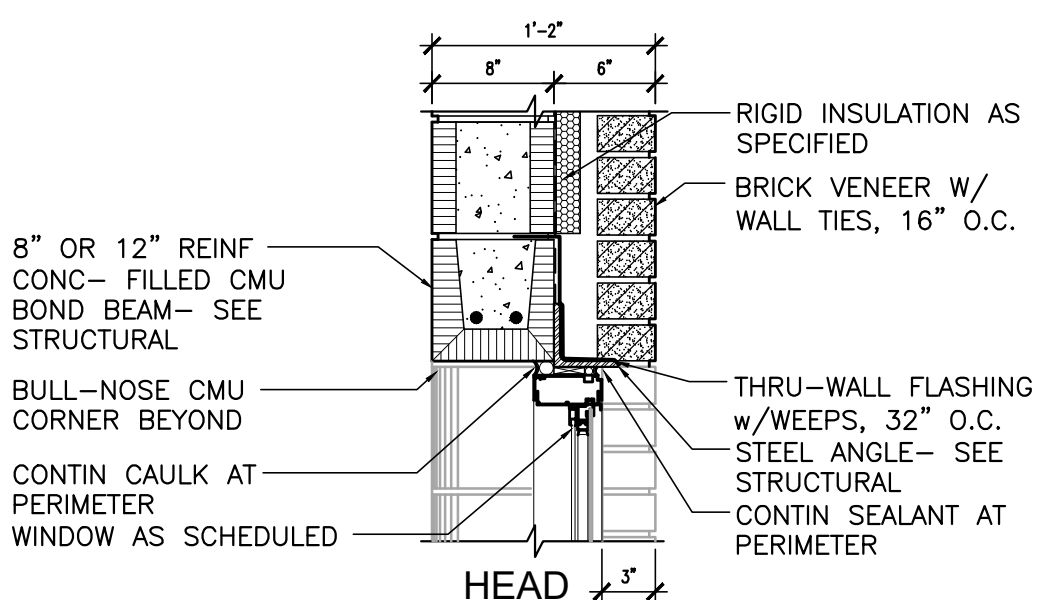
7 DETAIL

SCALE: 1" = 1'-0"



8 DETAIL

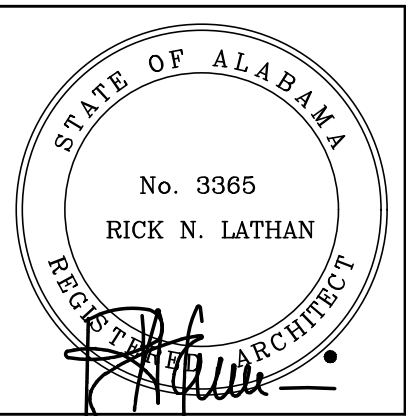
SCALE: 1" = 1'-0"



9 DETAIL

SCALE: 1" = 1'-0"

ADDITION AND RENOVATIONS TO CAFETERIA AT
SALTER ELEMENTARY SCHOOL
106 BRECON ACCESS ROAD, TALLADEGA, AL 35160
TALLADEGA CITY BOARD OF EDUCATION



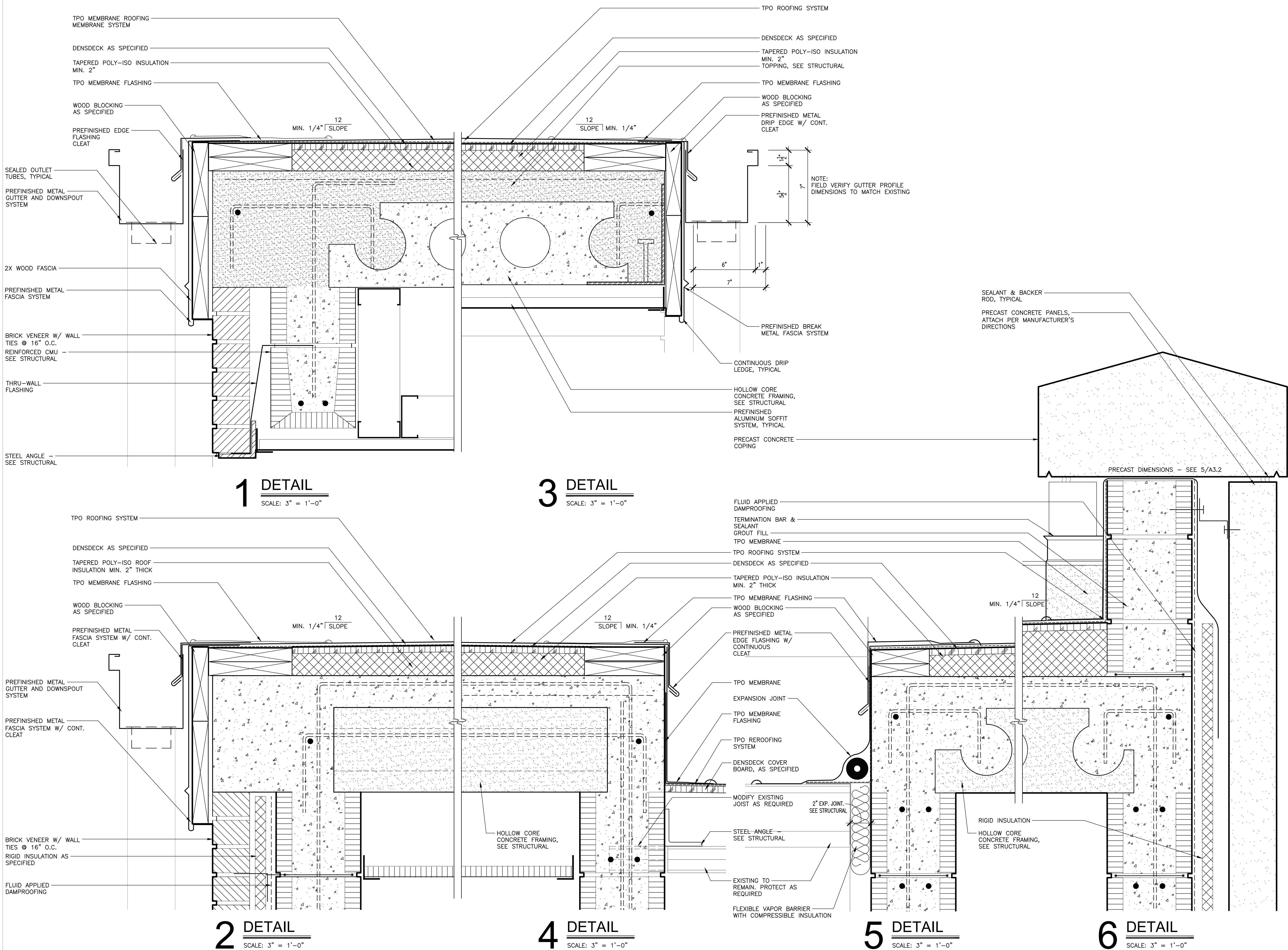
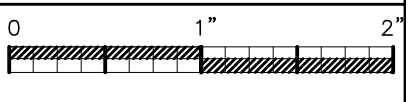
SHEET TITLE:
ROOF DETAILS

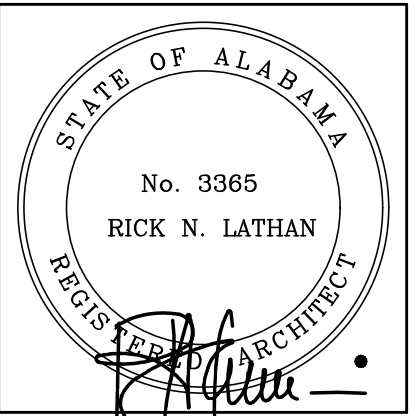
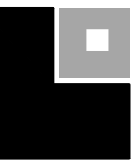
PROJ. MGR.: L. BRYANT
DRAWN: C. BRYANT
DATE: JULY 8, 2022
REVISIONS

JOB NO. 22-10
SHEET NO:

A2.4

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SHEET TITLE:
BUILDING ELEVATIONS AND
ENLARGED ELEVATION

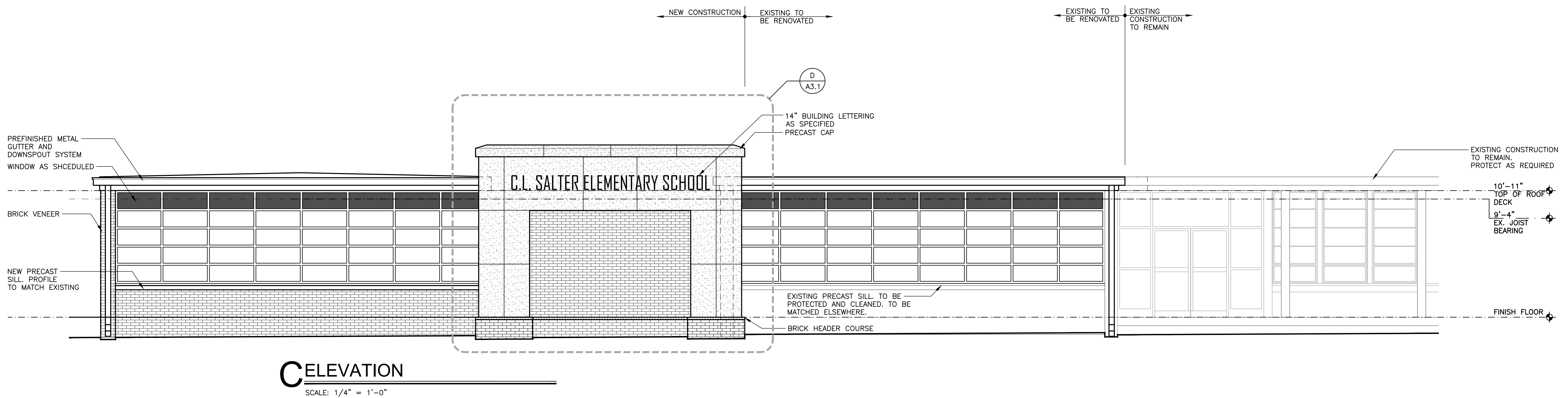
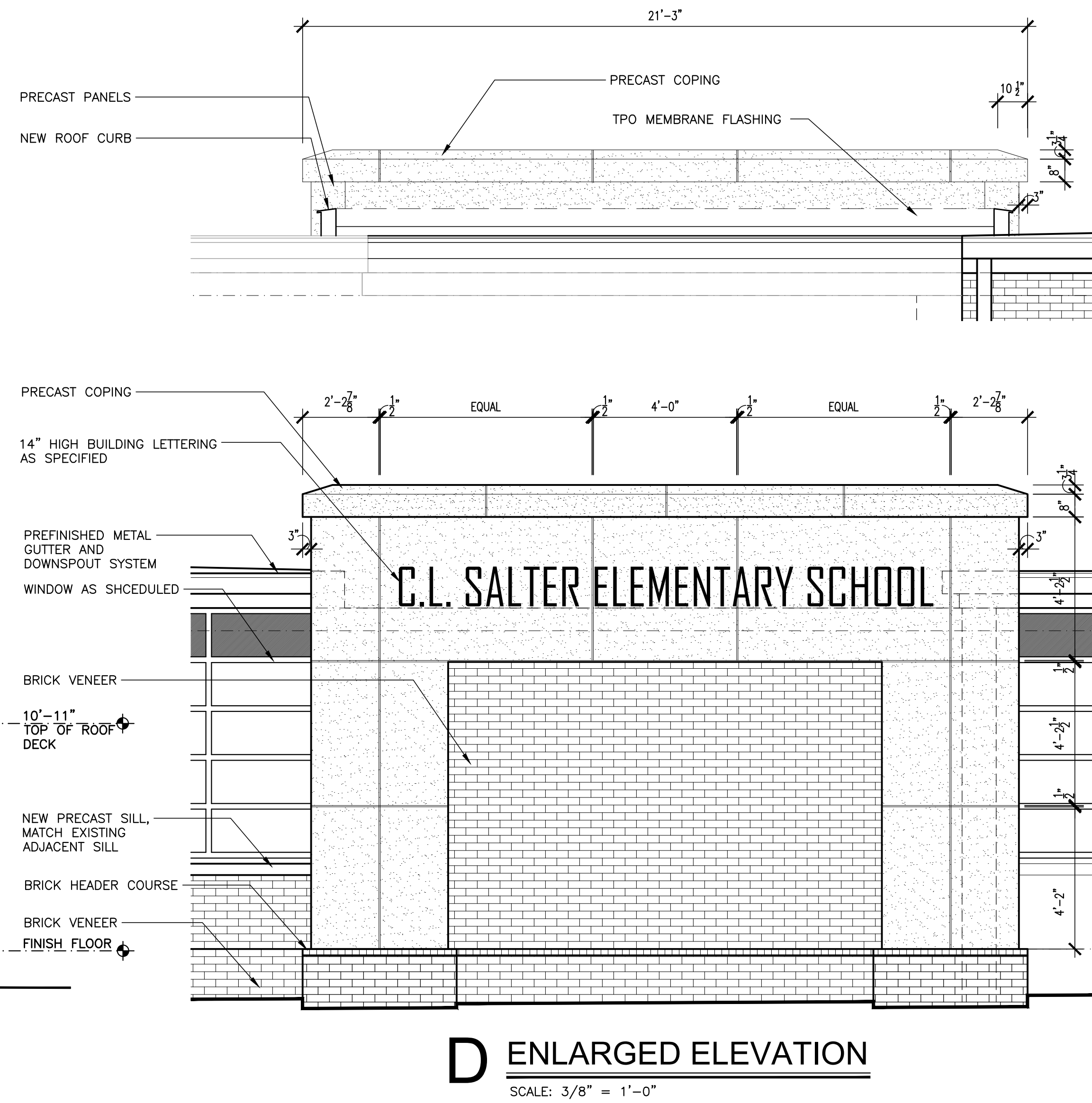
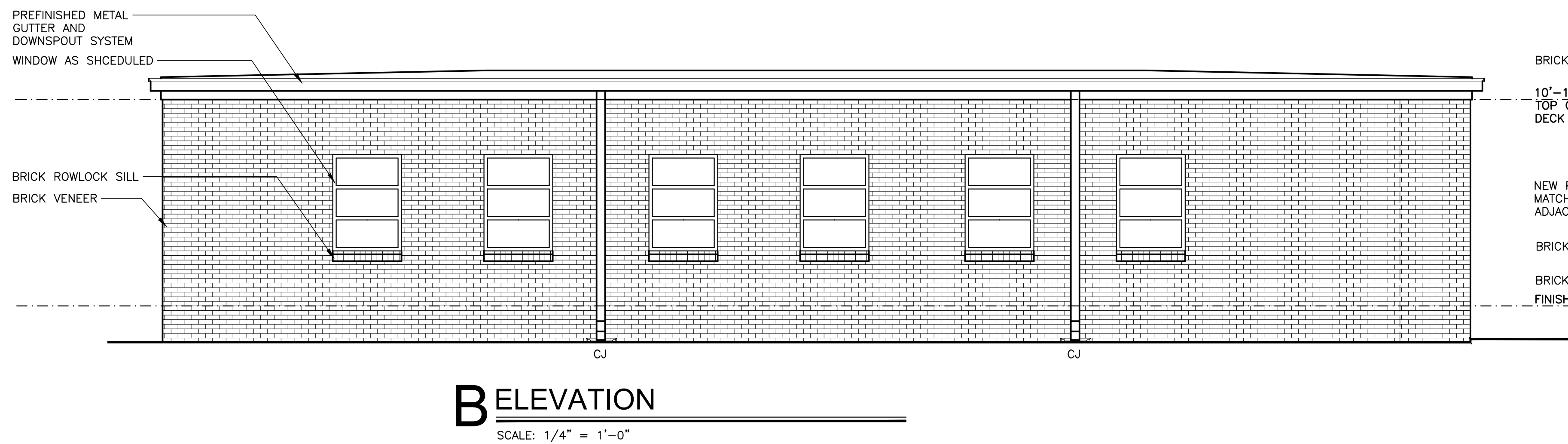
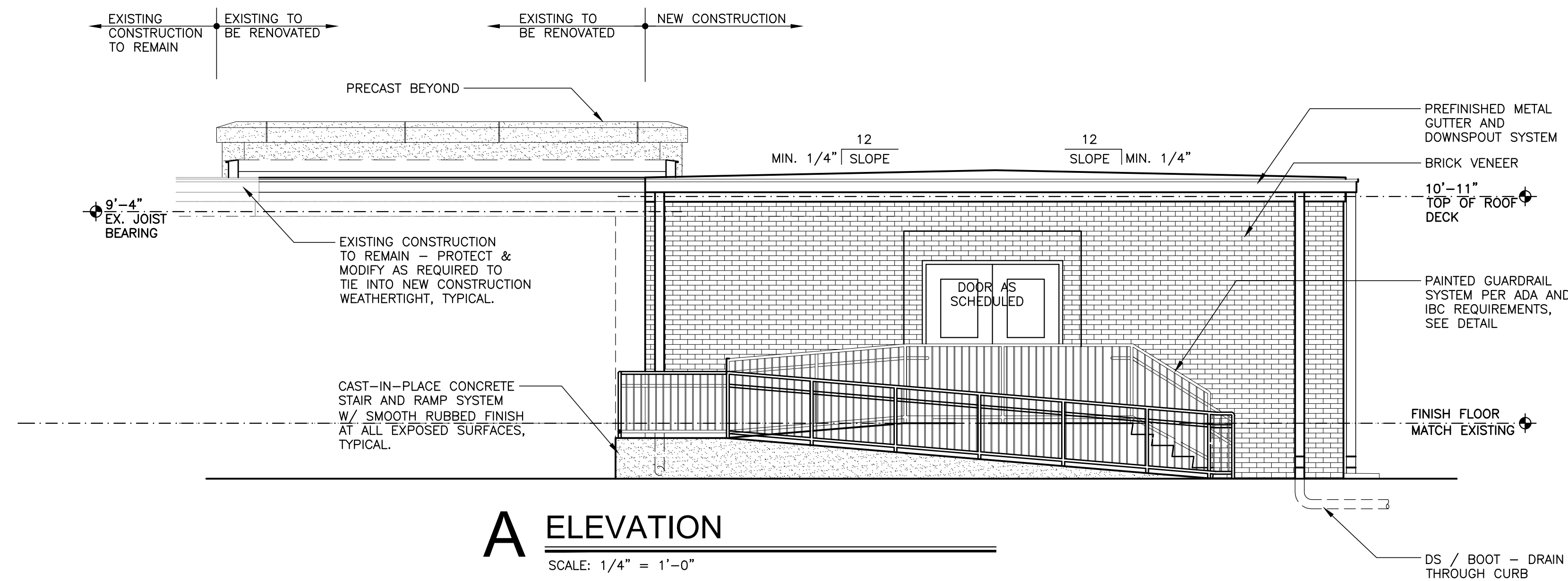
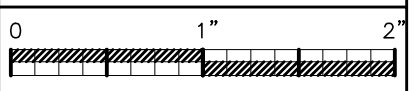
PROJ. MGR.: L. BRYANT
DRAWN: C. BRYANT
DATE: JULY 8, 2022
REVISIONS

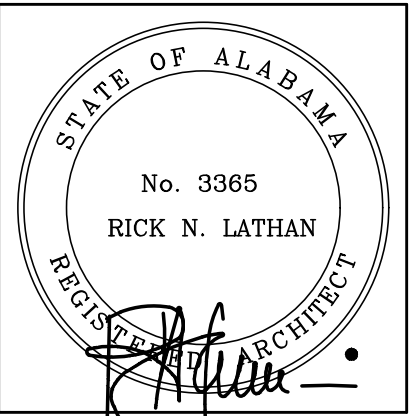
JOB NO. 22-10

SHEET NO:

A3.1

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SHEET TITLE:
BUILDING SECTIONS AND
WALL SECTION

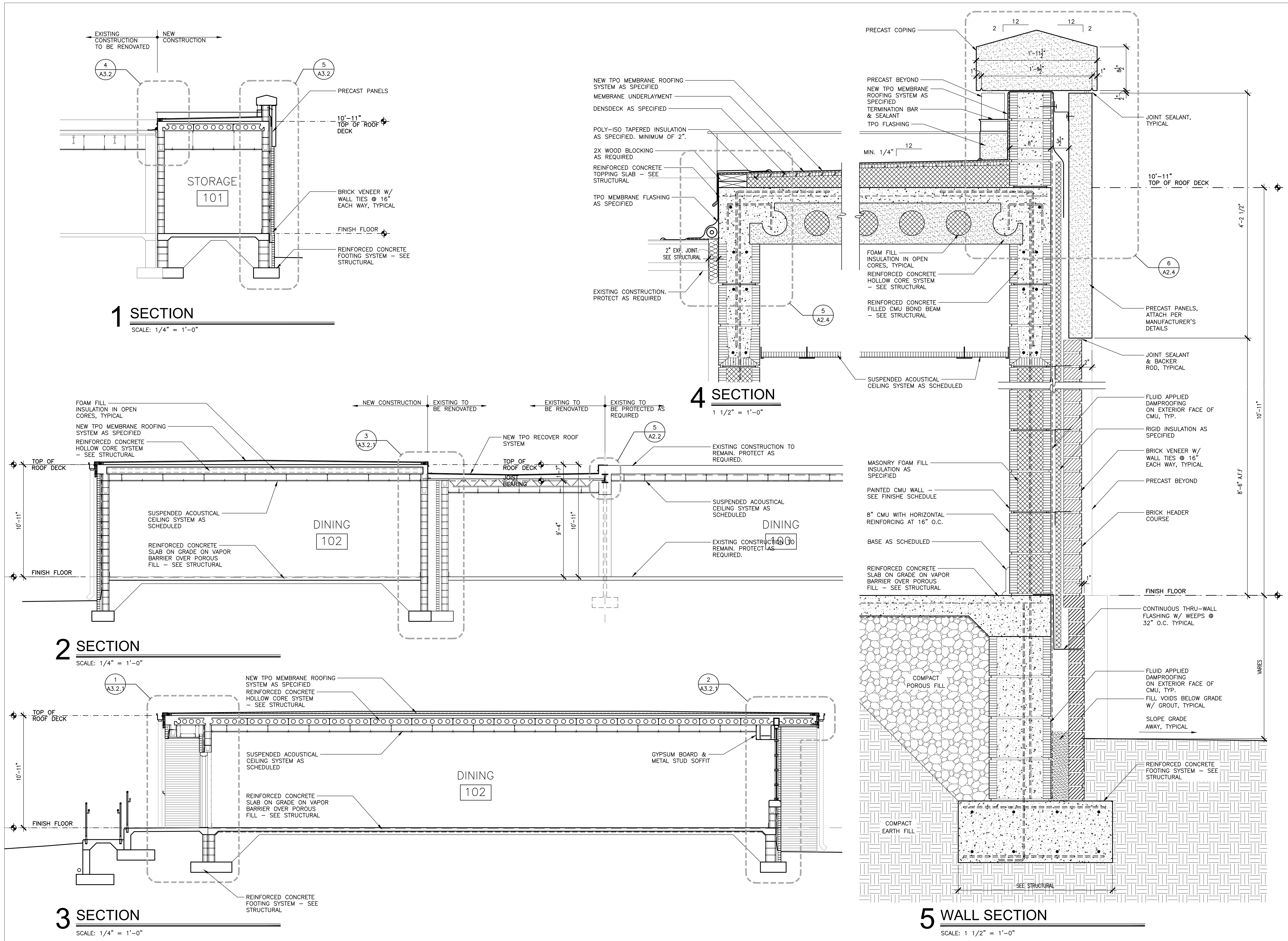
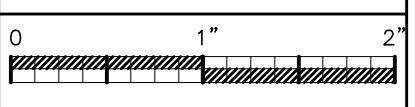
PROJ. MGR.: L. BRYANT
DRAWN: C. BRYANT
DATE: JULY 8, 2022
REVISIONS

JOB NO. 22-10

SHEET NO:

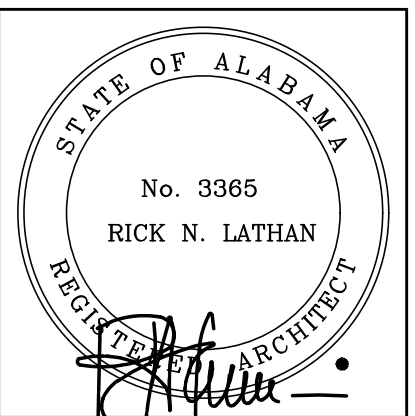
A3.2

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SALTER ELEMENTARY SCHOOL
ADDITION AND RENOVATIONS TO CAFETERIA AT
106 BRECON ACCESS ROAD, TALLADEGA, AL 35160
TALLADEGA CITY BOARD OF EDUCATION



SHEET TITLE:
WALL SECTIONS

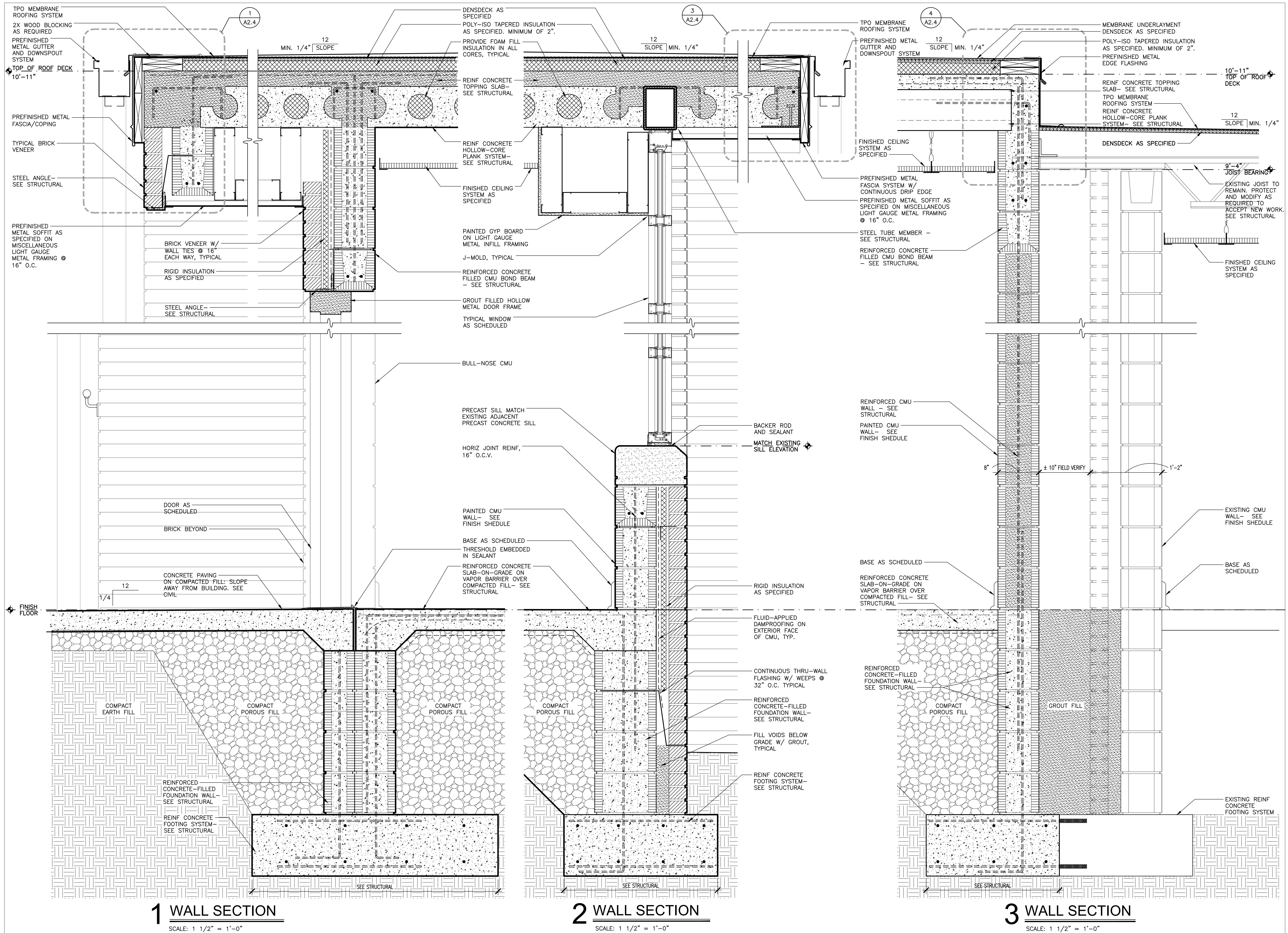
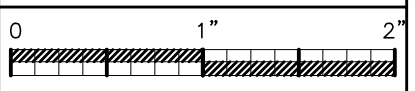
PROJ. MGR.: L. BRYANT
DRAWN: C. BRYANT
DATE: JULY 8, 2022
REVISIONS

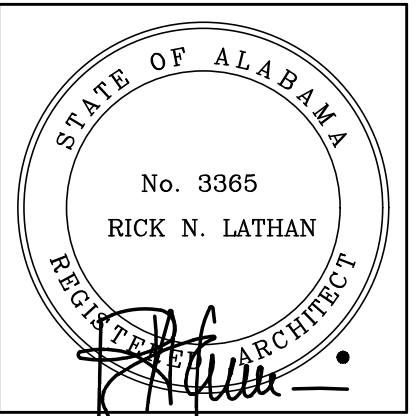
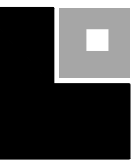
JOB NO. 22-10

SHEET NO:

A3.2.1

OF 11





SHEET TITLE:
STAIR PLAN, RAMP PLAN AND
DETAILS

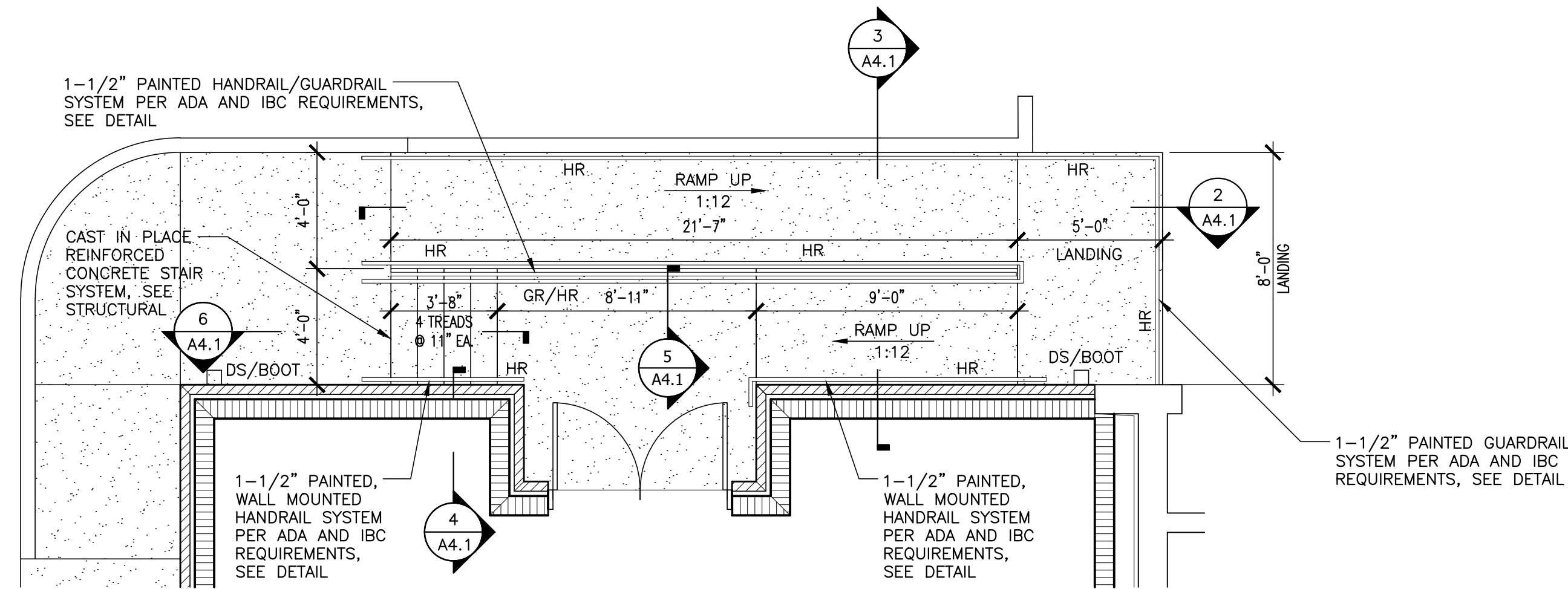
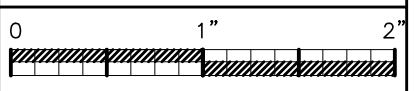
PROJ. MGR.: L. BRYANT
DRAWN: C. BRYANT
DATE: JULY 8, 2022
REVISIONS

JOB NO. 22-10

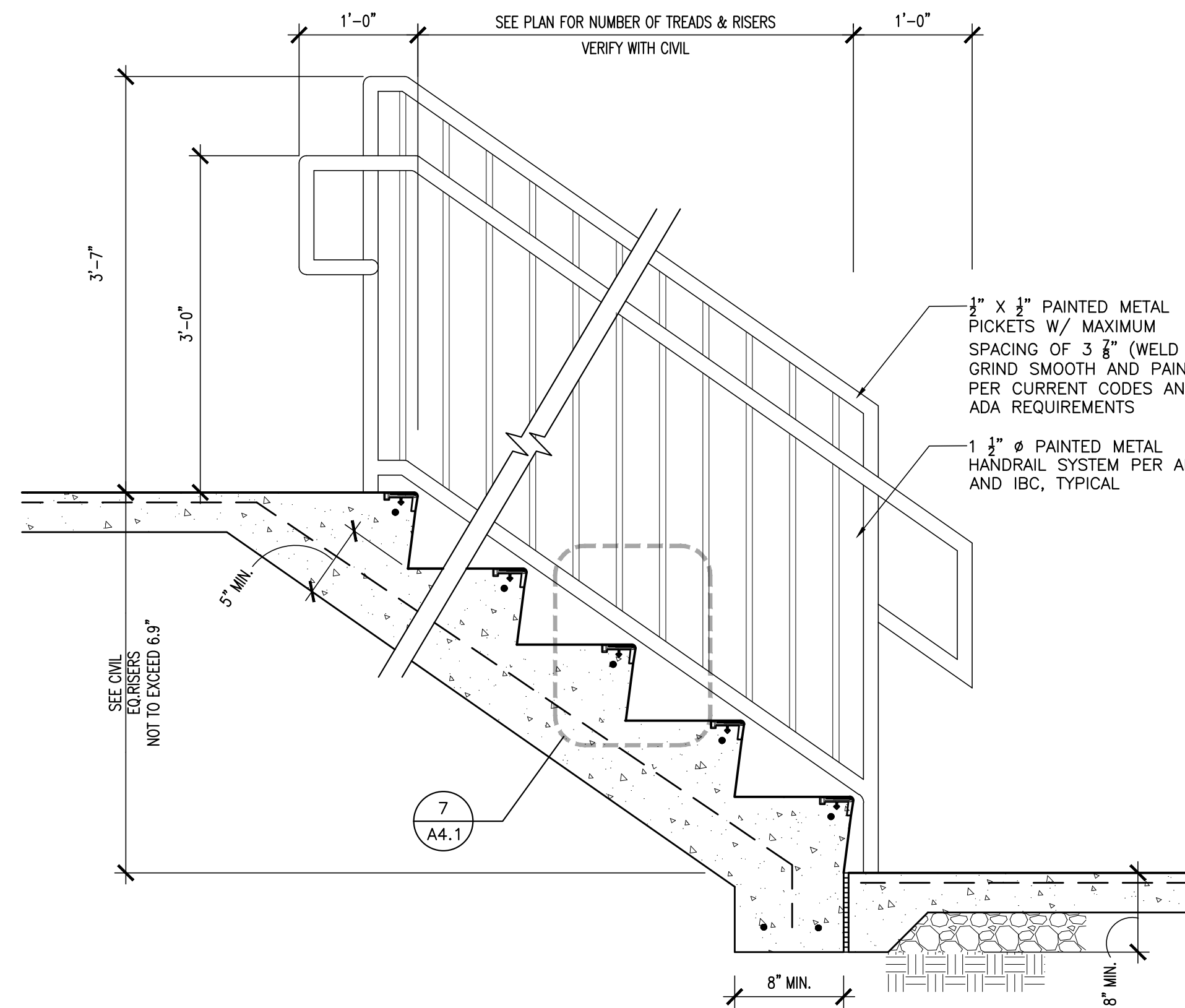
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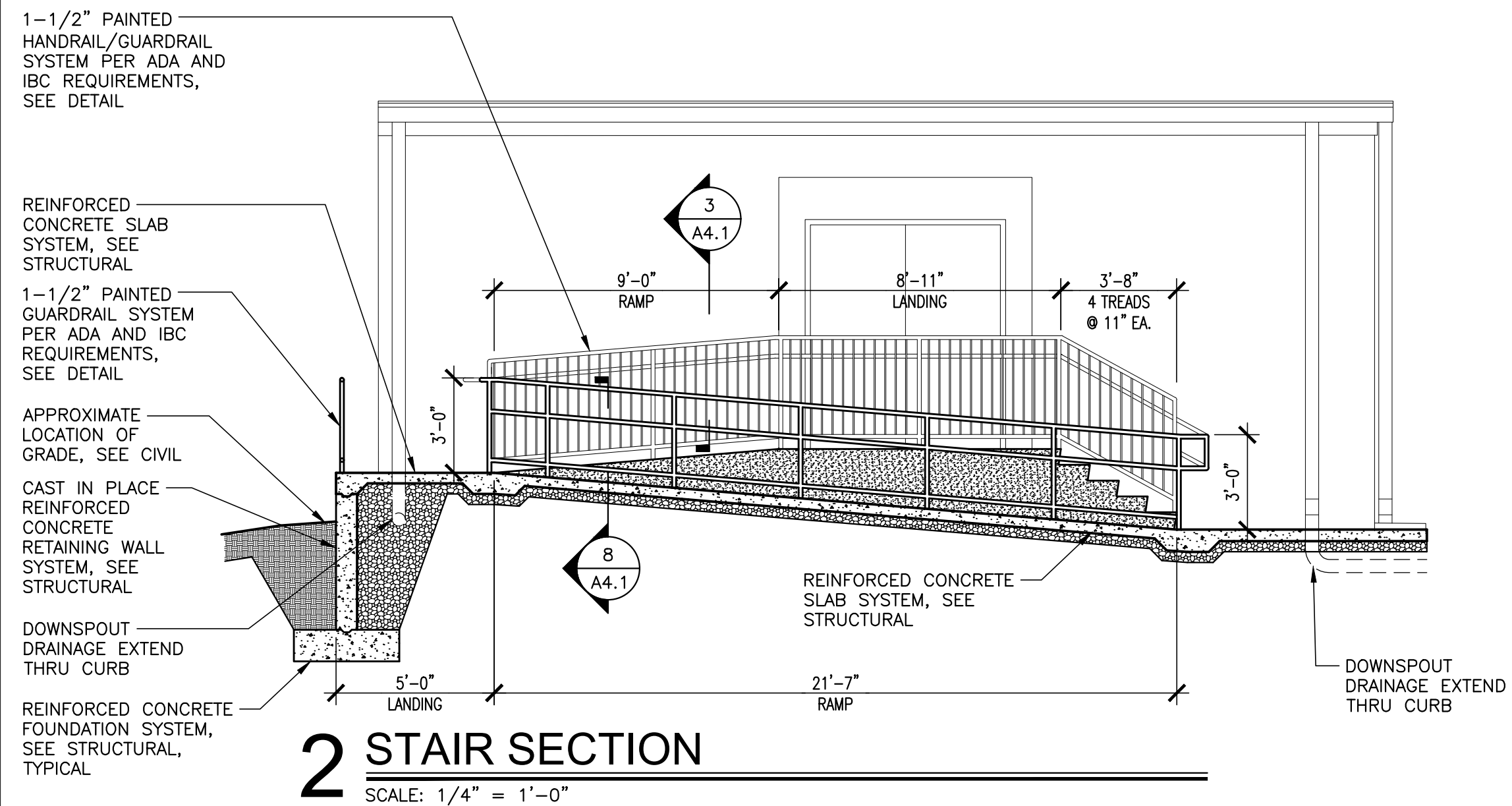
9 OF 11



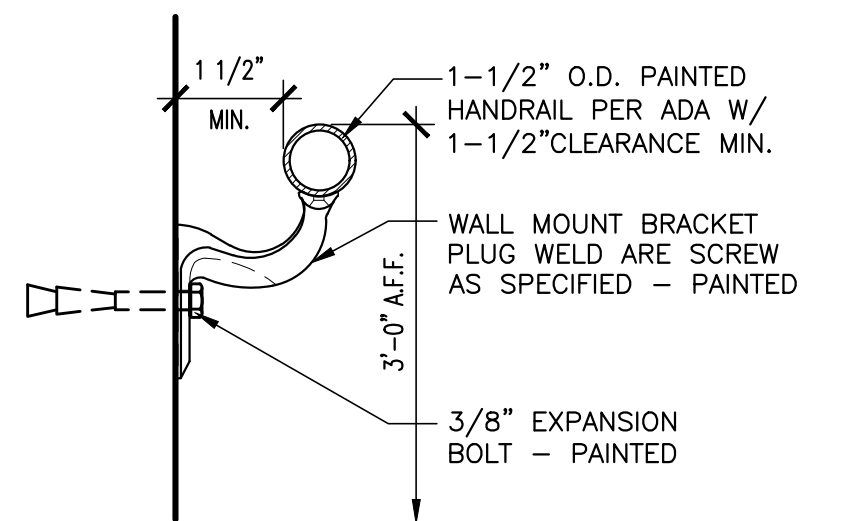
1 ENLARGED STAIR AND RAMP PLAN
SCALE: 1/4" = 1'-0"



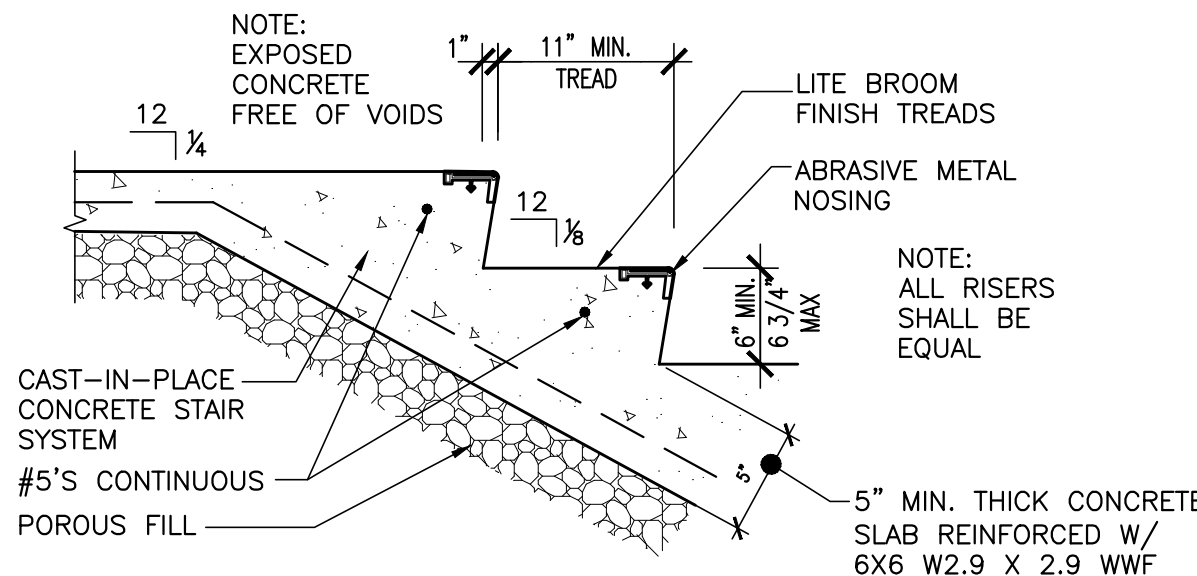
6 GUARDRAIL/HANDRAIL DETAIL
SCALE: 1" = 1'-0"



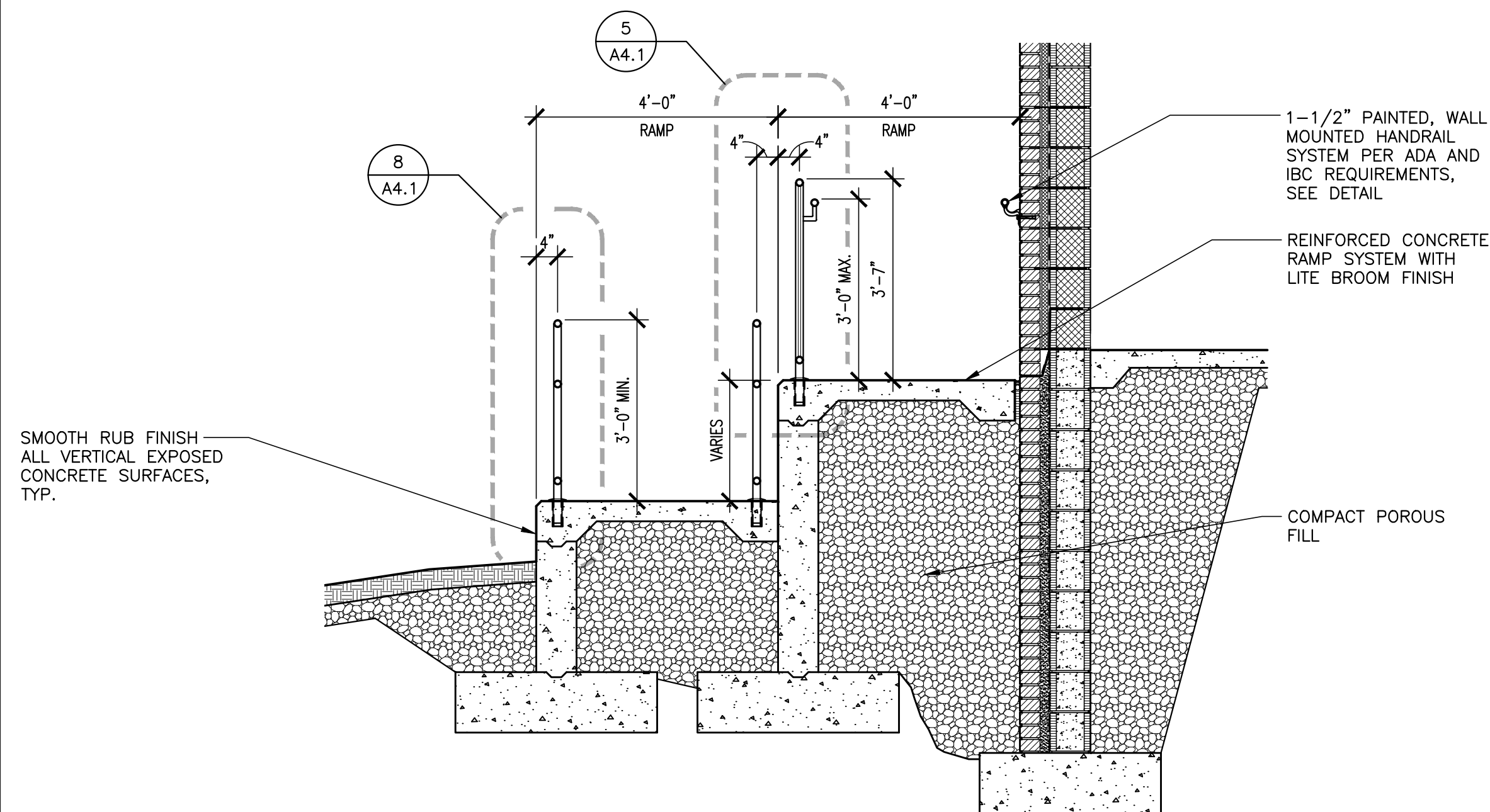
2 STAIR SECTION
SCALE: 1/4" = 1'-0"



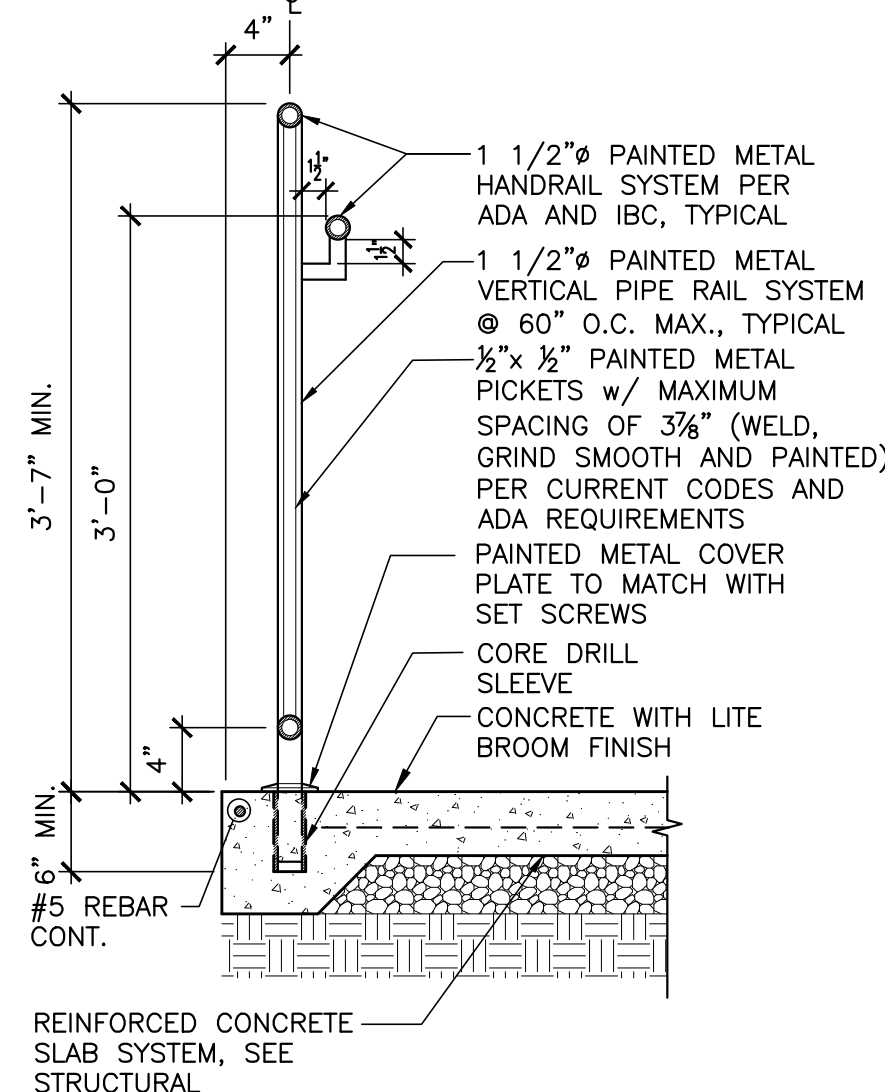
4 STAIR DETAIL
SCALE: 1" = 1'-0"



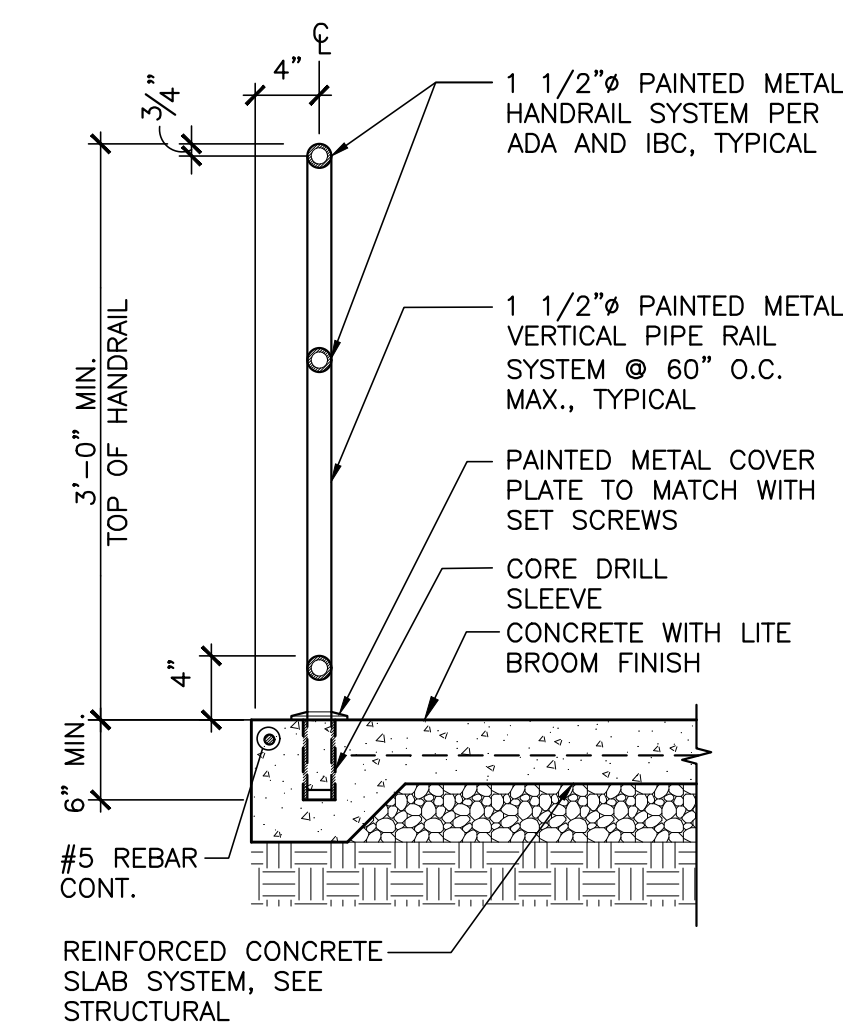
7 STAIR DETAIL
SCALE: 1" = 1'-0"



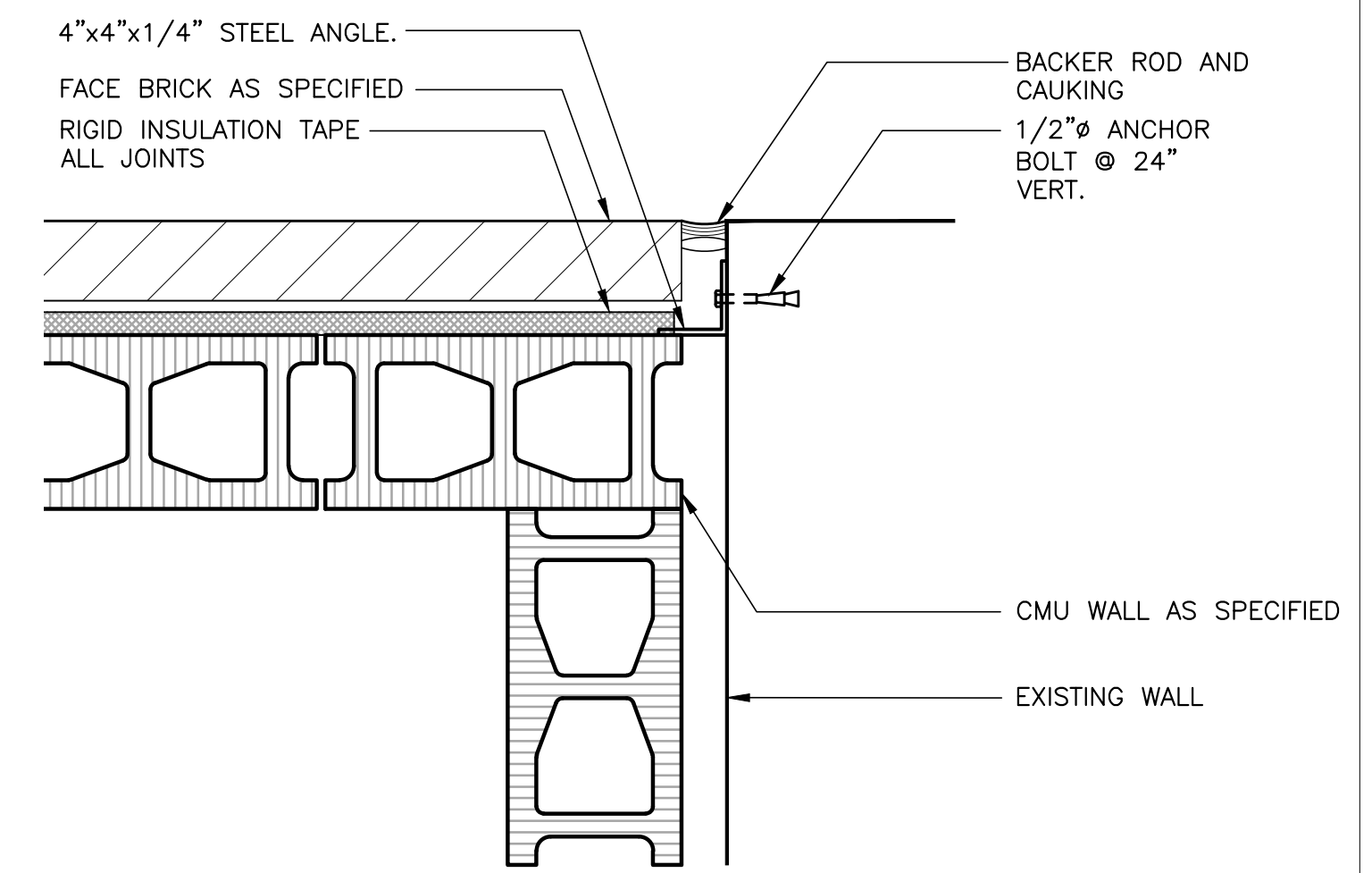
3 RAMP SECTION
SCALE: 1/2" = 1'-0"



5 GUARDRAIL/HANDRAIL SECTION
SCALE: 1" = 1'-0"



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

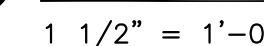
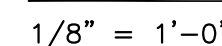
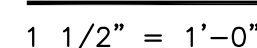


9 WINDSTOP DETAIL
SCALE: NTS

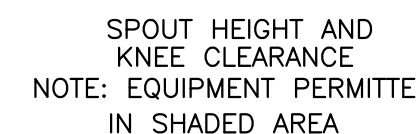
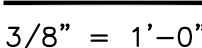
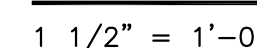
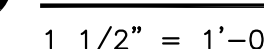
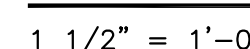


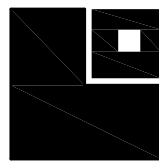
STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

PROJ. MGR.: L. BRYANT
DRAWN: CRB,KPG
DATE: JULY 8, 2022
REVISIONS



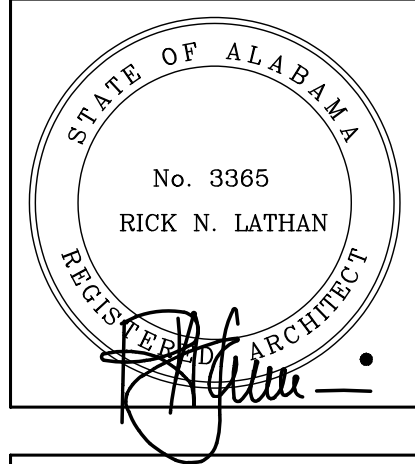
	VERIFY ALL DIMENSIONS IN FIELD
	FIELD VERIFY ALL CONDITIONS TO ENSURE NO CONFLICTS BETWEEN CASEWORK AND MILLWORK AND OTHER DISCIPLINES
	COORDINATE GROMMET LOCATIONS, WITH OWNERS REPRESENTATIVE
	COORDINATE INSTALLATION OF SCHEDULED BASE AT ALL CASEWORK AND MILLWORK WITH FLOORING CONTRACTOR





LATHAN
ARCHITECTS
LATHAN • BRYANT • CALMA

ADDITION AND RENOVATIONS TO CAFETERIA AT
SALTER ELEMENTARY SCHOOL
106 BRECON ACCESS ROAD, TALLADEGA, AL 35160
TALLADEGA CITY BOARD OF EDUCATION



SHEET TITLE:
REFLECTED CEILING PLAN,
FINISH PLAN AND DETAILS

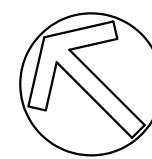
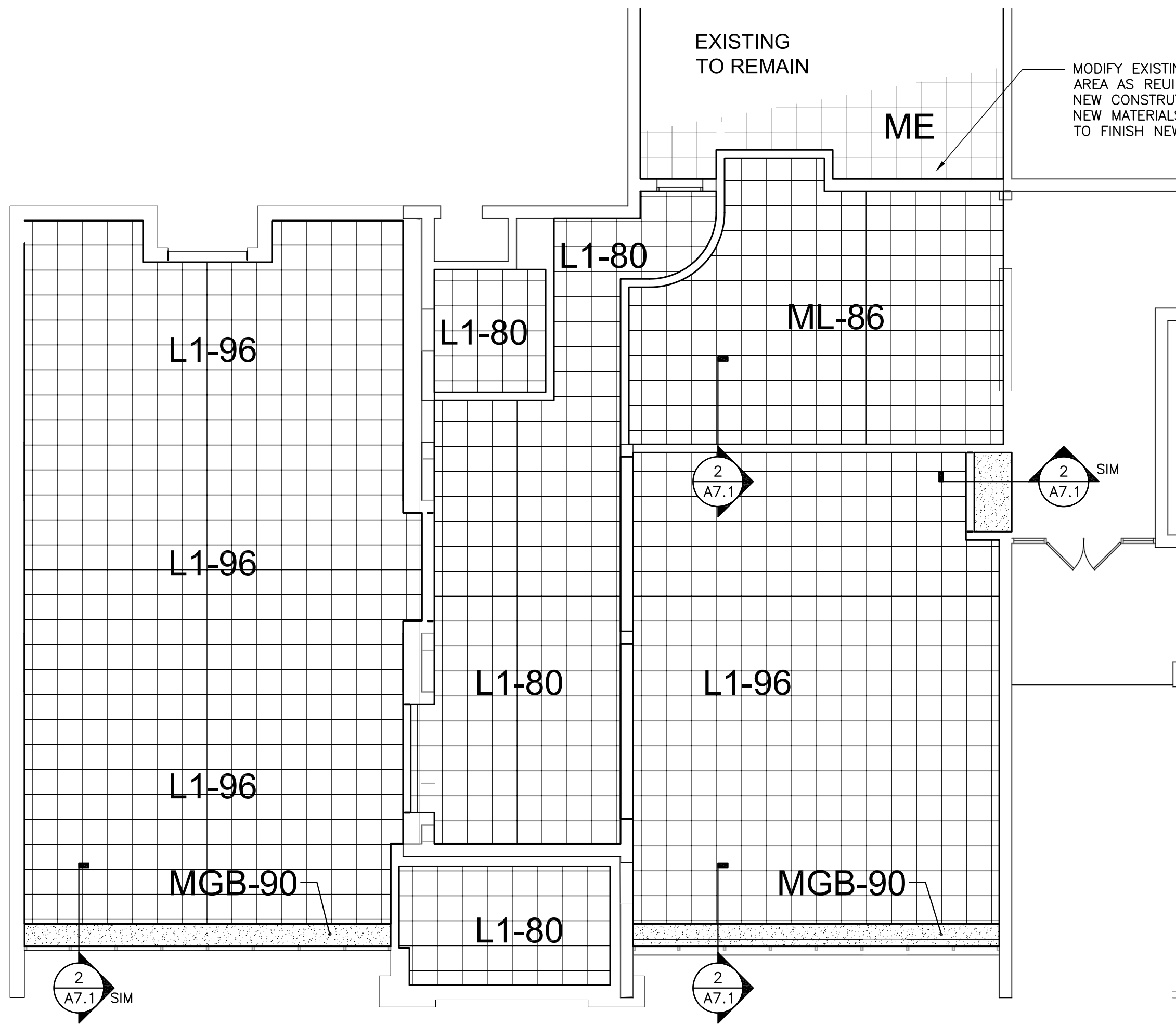
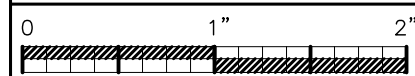
PROJ. MGR.: L. BRYANT
DRAWN: CRB, KPG
DATE: JULY 8, 2022
REVISIONS

JOB NO. 22-10

SHEET NO:

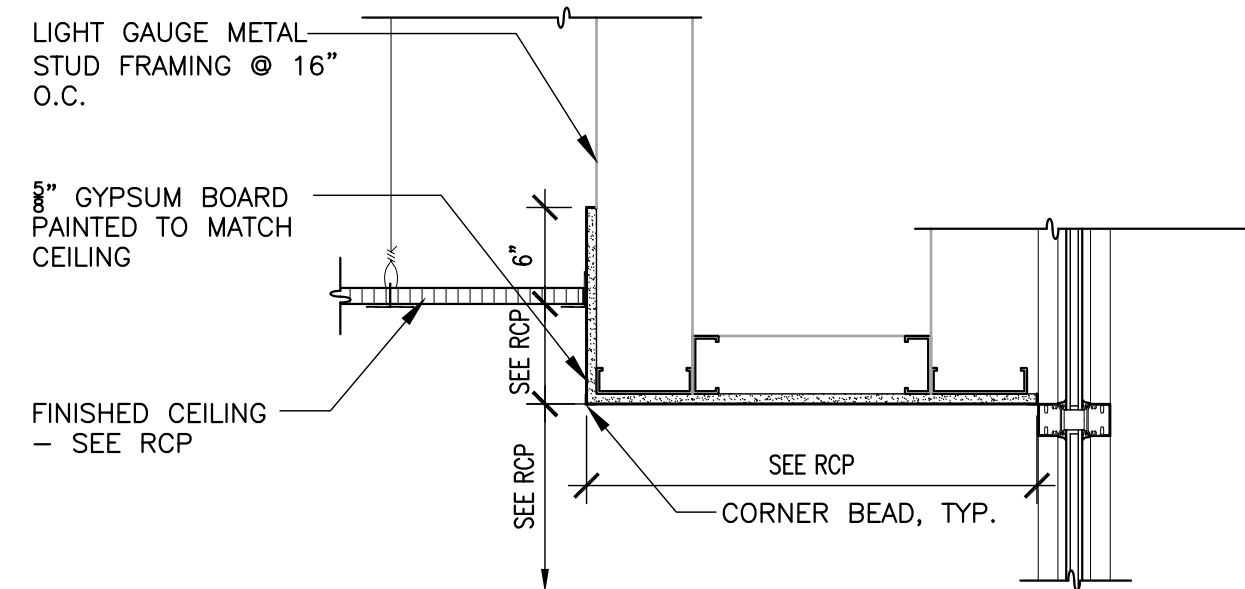
A7.1

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1 REFLECTED CEILING PLAN

1/8" = 1'-0"



2 DETAIL @ SOFFIT

1" = 1'-0"

LIGHTING/ELECTRICAL NOTES

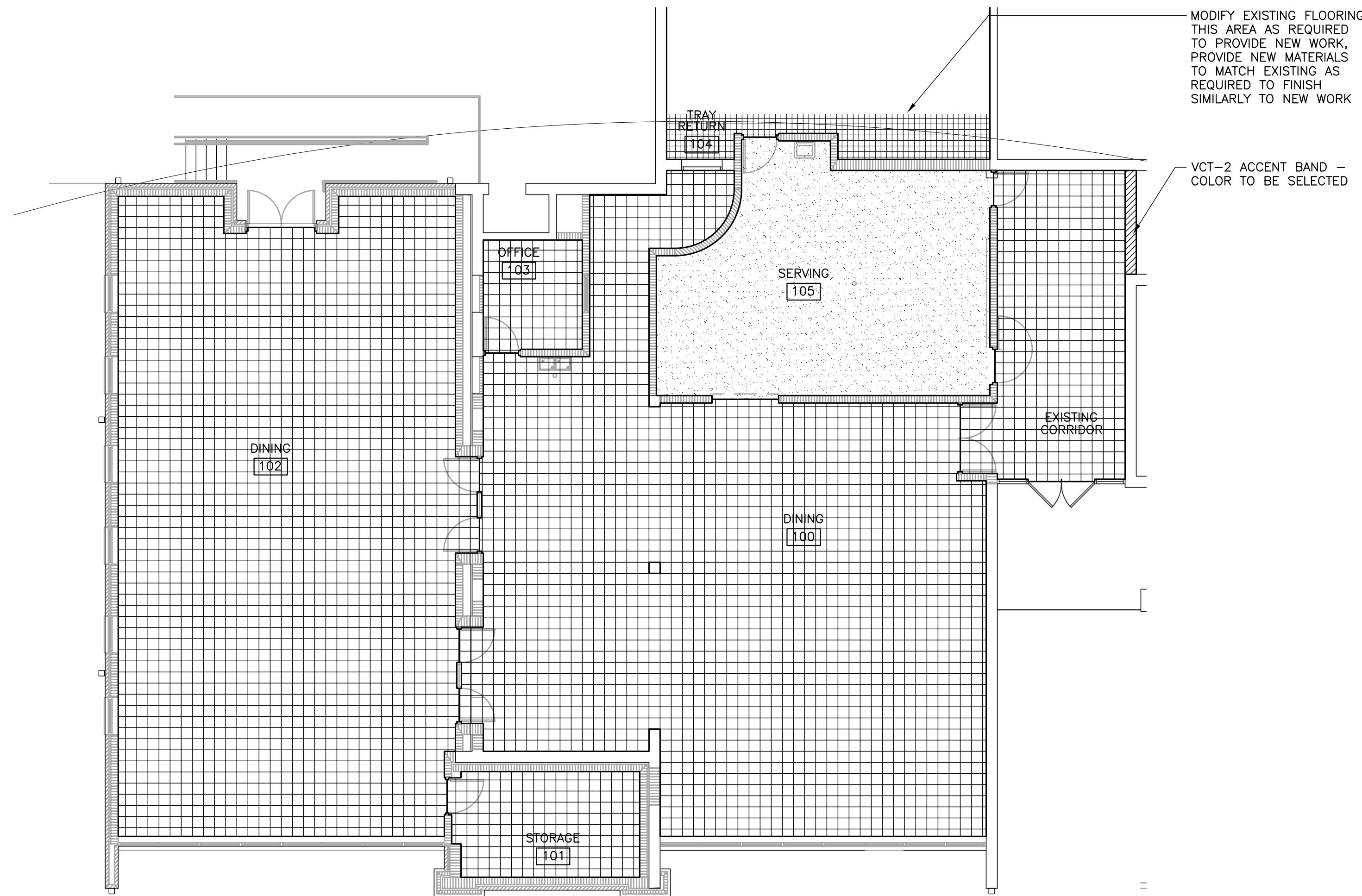
COORDINATE LIGHTING LAYOUTS WITH ELECTRICAL DRAWINGS.
CONTACT ARCHITECT WITH ANY DISCREPANCIES

CEILING NOTES

AFF = ABOVE FINISH FLOOR
ALL CEILING HEIGHTS ARE FROM ADJACENT FINISHED FLOOR
CEILING HEIGHTS INDICATED ARE MINIMUM HEIGHTS. COORDINATE W/ PLUMBING, MECHANICAL, AND ELECTRICAL TO INSTALL CEILINGS AS HIGH AS POSSIBLE.
ALL CEILING GRIDS ARE TO BE CENTERED IN ROOM UNLESS SHOWN OR NOTED OTHERWISE
USE 2x4 LAY-IN CEILING TILES CUT TO FIT AT ALL LOCATIONS LESS THAN 12" AT PERIMETER OF ROOM. WHERE 2x4 TILES OCCUR THEY SHALL MATCH SPECIFIED TILE AS INDICATED FOR EACH ROOM.
COORDINATE W/ PLUMBING, MECHANICAL AND PLUMBING DRAWINGS AND PROVIDE FRAMING AS REQUIRED TO ACCOMMODATE MECHANICAL AND PLUMBING SYSTEMS

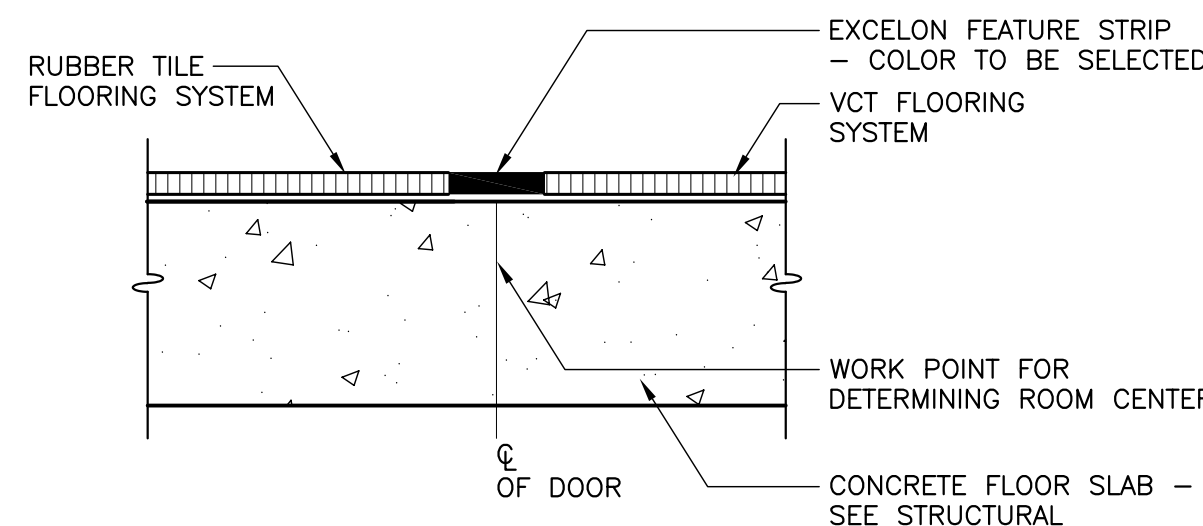
CEILING LEGEND

FIXTURE TYPES - SEE ELECTRICAL	
CEILING TYPE	CEILING HEIGHTS
GB - GYPSUM BOARD	710 = 7'-10"
MGB - MOISTURE RESISTANT GYPSUM BOARD	80 = 8'-0" AFF
L1 - 2x2 LAY-IN FINE FISSURED	90 = 9'-0" AFF
ML - 2x2 MOISTURE RESISTANT LAY-IN	96 = 9'-6" AFF
REFER TO FINISH SYMBOLS ON PLAN FOR MATERIALS AND CEILING HEIGHTS	
CEILING TYPE	L1-90 CEILING HEIGHT



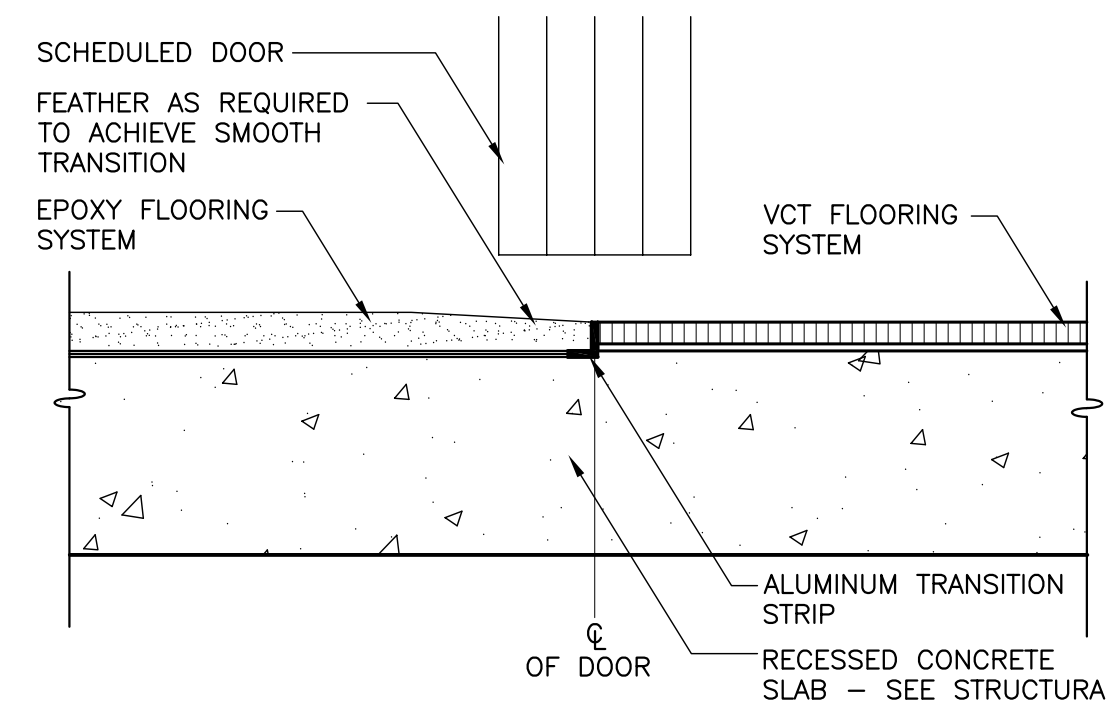
3 FINISH FLOOR PLAN

1/8" = 1'-0"



4 DETAIL

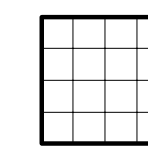
1" = 1'-0"



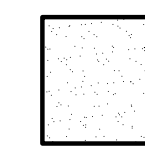
5 DETAIL @ SOFFIT

1" = 1'-0"

FINISH PATTERN LEGEND



VCT-1: VINYL
COMPOSITION TILE
(TBD)



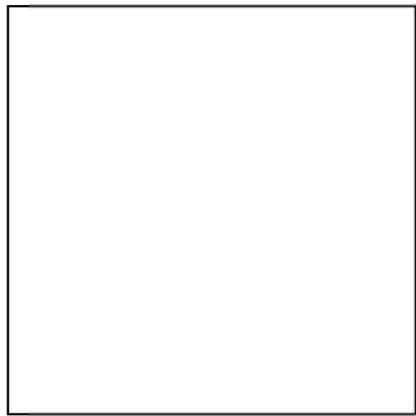
ERF-1: EPOXY
RESIN FLOORING
(TBD)

FINISH SCHEDULE - UPPER LEVEL

ROOM NO.	ROOM NAME	FLOOR	BASE	CASEWORK FACE	TOP	WALLS NORTH	SOUTH	EAST	WEST	DOOR FRAME	CEILING/SOFFIT PAINT	NOTES
AREA "A"												
100	DINING	VCT	RB			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
101	STORAGE	VCT	RB			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
102	DINING	VCT	RB			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
103	OFFICE	VCT	RB	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
104	TRAY RETURN	ERF	ERB			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
105	SERVING	ERF	ERB			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
106	KITCHEN	ERF	ERB			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		

FINISH LEGEND

ITEM	MANUFACTURER	ITEM NAME / NUMBER	NOTES
PAINT			
PNT-1	SHERWIN WILLIAMS	TBD	WALL PAINT
PNT-2	SHERWIN WILLIAMS	TBD	TRIM PAINT
PNT-3	SHERWIN WILLIAMS	TBD	TYPICAL SOFFIT
RESILIENT FLOORING			
VCT-1	ARMSTRONG	12x12; STANDARD EXCELON; TO BE DETERMINED	
VCT-2	ARMSTRONG	12x12; STANDARD EXCELON; TO BE DETERMINED	
EPOXY RESIN FLOORING			
ERF-1	SPARTACOTE	1/4" FLAKE; CUSTOM BLEND - TBD	
WALL BASE			
RB-1	TARKETT	40 BLACK	4" HIGH
ERB-1	SPARTACOTE	MATCH ERF-1; 4" HIGH	
PLASTIC LAMINATE			
PL-1	WILSONART	TBD	



PROJ. MGR.:	HCW
DRAWN:	ABS
DATE:	JULY 8, 2022
REVISIONS	

GENERAL NOTES

1.0 DESIGN CRITERIA

1.1 CODES AND SPECIFICATIONS:

- GENERAL BUILDING CODE:
INTERNATIONAL BUILDING CODE, 2015 EDITION.
- CONCRETE:
BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-14)
- STRUCTURAL PRECAST CONCRETE:
PCI DESIGN HANDBOOK, LATEST EDITION
PCI MANUAL FOR QUALITY CONTROL FOR PLANTS AND PRODUCTIONS FOR PRECAST CONCRETE PRODUCTS, LATEST EDITION.
- ARCHITECTURAL PRECAST CONCRETE:
MNL-122-89 ARCHITECTURAL PRECAST CONCRETE, LATEST EDITION.
PCI MANUAL FOR QUALITY CONTROL FOR PLANTS AND PRODUCTION OF ARCHITECTURAL PRECAST CONCRETE PRODUCTS, LATEST EDITION.
- STRUCTURAL STEEL:
SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (ANSI/AISC 360-10)
NATIONAL CONCRETE MASONRY ASSOCIATION'S STANDARD PRACTICES AND "SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY"
- COLD-FORMED STEEL FRAMING:
AISI NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AMERICAN IRON AND STEEL INSTITUTE (AISI S200-12)

1.2 DESIGN GRAVITY LOADS (PSF):

- 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.
FLOOR LIVE LOADS:
NON-REDUCIBLE PARTITION LIVE LOAD OF 20 PSF HAS BEEN INCLUDED PER IBC SECTION 1607.5.
LIVE LOAD REDUCTIONS AS DETERMINED BY IBC SECTION 1607.10 HAVE BEEN TAKEN WHERE PERMITTED.
FLOOR (REDUCIBLE)-----100
STORAGE-----125
MECHANICAL ROOM-----125
STAIRS & EXITWAYS-----100
- ROOF LIVE LOADS:
WHERE PERMITTED ROOF LIVE LOADS ARE REDUCED FROM THE BASE VALUE SHOWN BELOW IN ACCORDANCE WITH IBC SECTION 1607.12
ROOF (MAIN BUILDING)-----20
- ROOF SNOW LOADS:
GROUND SNOW LOAD (Pg)-----10.0
IMPORTANCE FACTOR (I)-----1.1
EXPOSURE FACTOR (Ce)-----1.0
THERMAL FACTOR (Ct)-----1.0

1.3 DESIGN LATERAL LOADS:

- WIND LOADS:
ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)-----120MPH
BASIC WIND SPEED (3-SECOND GUST)-----90MPH
WIND IMPORTANCE FACTOR (I)-----1.00
WIND EXPOSURE CATEGORY-----C
INTERNAL PRESSURE COEFFICIENTS----- +/- 0.18
SEE TYPICAL DETAILS FOR COMPONENT AND CLADDING LOADS
- SEISMIC LOADS:
OCCUPANCY CATEGORY III (GROUP E OCCUPANCIES WITH OCCUPANCY > 250)
SEISMIC IMPORTANCE FACTOR-----1.25
MAPPED SPECTRAL RESPONSE ACCELERATIONS:
SS-----0.218
S1-----0.094
SITE CLASS-----D
SPECTRAL RESPONSE COEFFICIENTS:
SDS-----0.259
S01-----0.146
SEISMIC DESIGN CATEGORY-----C
BASIC SEISMIC-FORCE-RESISTING SYSTEM:
INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
DESIGN BASE SHEAR:
BASE BID (NON-STORM)-----35 KIPS
SEISMIC RESPONSE COEFFICIENT, Cs-----0.0926
RESPONSE MODIFICATION FACTOR, R-----3.5
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

2.0 GENERAL CONDITIONS

- 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.
- 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 THEREOF.
- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT OF ANY DISCREPANCIES PRIOR TO FABRICATION/CONSTRUCTION.

- 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.
- 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.
- ALL DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS, UNLESS NOTED.
- 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.
- 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.
- 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. DRAWINGS FURTHER DO NOT PROVIDE ENGINEERING CONTROLS FOR SILICA STANDARD OR ANY OTHER SAFETY STANDARD.

- 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.
- THE STRUCTURAL INTEGRITY OF THE BUILDING IS DEPENDENT UPON COMPLETION ACCORDING TO THE PLANS AND SPECIFICATIONS. THE STRUCTURAL ENGINEER OF RECORD ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION. THE METHOD OF CONSTRUCTION AND SEQUENCE OF OPERATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL SUPPLY ANY NECESSARY BRACING, GUYS, ETC. TO PROPERLY BRACE THE STRUCTURE AGAINST WIND, DEAD AND LIVE LOADS UNTIL THE BUILDING IS COMPLETED ACCORDING TO THE PLANS AND SPECIFICATIONS. ANY QUESTIONS REGARDING TEMPORARY BRACING REQUIREMENTS SHOULD BE FORWARDED TO A STRUCTURAL ENGINEER FOR REVIEW.
- MECHANICAL UNITS AND ANY OTHER EQUIPMENT SUPPORTED BY THE STRUCTURE WITH WEIGHTS IN EXCESS OF 200 LBS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
- WHERE NOTED IN DRAWINGS AND SPECIFICATIONS TO INSTALL PRODUCTS PER THE MANUFACTURER'S RECOMMENDATIONS, IT SHALL BE REQUIRED THAT THE CONTRACTOR FOLLOWS THE MANUFACTURER'S RECOMMENDATIONS.
- 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.
- OBSERVATION BY THE ENGINEER OF RECORD'S OFFICE DOES NOT REPLACE INSPECTIONS AND TESTING BY THE TESTING AGENCY OR SPECIAL INSPECTOR.

3.0 FOUNDATIONS

- 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.
- ASSUMED MAXIMUM ALLOWABLE BEARING PRESSURES (PSF): 2000
- ALL FOUNDATION BEARING SURFACES SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE TO ENSURE THEIR COMPLIANCE WITH PRESSURES NOTED. ALL FOOTING ELEVATIONS ARE ESTIMATED AND MAY BE ADJUSTED IN THE FIELD BY THE GEOTECHNICAL ENGINEER.
- COMPACTED FILL WITHIN THE BUILDING AREA (AND EXTENDING 10'-0" OUTSIDE THE EXTERIOR BUILDING LINE) SHALL MEET THE REQUIREMENTS NOTED IN THE GEOTECHNICAL REPORT.
- BACKFILL FOR FOUNDATION AND RETAINING WALLS SHALL BE A FREE DRAINING GRANULAR MATERIAL, SUCH AS SIZE #57 STONE. BACKFILL SHALL BE COMPACTED SUFFICIENTLY TO PREVENT SUBSIDENCE OF SURFACE ADJACENT TO WALL. THE GRANULAR MATERIAL SHALL BE PLACED IN A 45 DEGREE WEDGE EXTENDING FROM THE BASE OF THE FOOTING TO WITHIN 18" OF FINSH GRADE ON EXTERIOR AND TO UNDERSIDE OF SLAB ON INTERIOR.
- GRANULAR BACKFILL SUPPORTING A FOOTING SHALL BE COMPACTED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER OR HIS APPROVED REPRESENTATIVE. PROVIDE A 12" THICK CAP OF PROPERLY COMPACTED CRUSH AND RUN STONE BETWEEN THE FOOTING AND THE PROPERLY COMPACTED GRANULAR BACKFILL. EXTEND CRUSH AND RUN CAP TWO FEET BEYOND THE PERIMETER OF THE FOOTING OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
- FOUNDATION AND RETAINING WALLS SHALL NOT BE BACKFILLED UNTIL CONCRETE HAS ATTAINED THE REQUIRED 28 DAY COMPRESSIVE STRENGTH.
- DO NOT PLACE BACKFILL AGAINST FOUNDATION WALLS UNTIL UPPER BRACING LOADS ARE IN PLACE FOR AT LEAST SEVEN DAYS AND HAVE ATTAINED 75% OF DESIGN STRENGTH.
- REINFORCING STEEL IN CONTINUOUS WALL FOOTINGS SHALL EXTEND THRU SPREAD FOOTINGS AT THE SAME ELEVATION AS WALL FOOTING. STEP WALL FOOTING DOWN ON SPREAD FOOTING WHERE SPREAD FOOTING IS BELOW CONTINUOUS WALL FOOTING.
- 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.

- GRANULAR FILL BENEATH SLABS, UNLESS NOTED OTHERWISE, SHALL BE 4" COMPACTED #57 STONE.
- VAPOR RETARDER BENEATH SLABS ON GRADE, UNLESS NOTED, SHALL MEET ASTM E 1745, CLASS A, 15 MIL MINIMUM THICKNESS WITH MANUFACTURER'S RECOMMENDED ADHESIVE OR PRESSURE-SENSITIVE TAPE AND PIPE BOOTS, SUCH AS W.R. MEADOWS INC. PRODUCT PERMINATOR 15.
- NO EXCAVATION SHALL BE CLOSER THAN AT A SLOPE OF 2:1 (TWO HORIZONTAL TO ONE VERTICAL) TO A FOOTING.

4.0 CONCRETE

- CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.
- CONCRETE STRENGTH AND DURABILITY REQUIREMENTS -- MINIMUM 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
3000 NORMAL WT.	0.57	----	3" TO 5"	FOOTINGS
3500 NORMAL WT.	0.50	----	3" TO 5"	SLABS ON GRADE
4000 NORMAL WT.	0.45	4-6%	3" TO 5"	UNLESS NOTED

 - CONCRETE MIX DESIGN SHALL BE WORKABLE WITH LOWEST TOTAL WATER PER CUBIC YARD USING LARGEST PRACTICAL MAXIMUM SIZE OF COURSE AGGREGATE.
- REINFORCING BARS: ASTM A615 GRADE 60.
- WATERSTOPS: FLEXIBLE PVC WATERSTOPS, CE CRD-C 572 UNLESS NOTED OTHERWISE, WITH FACTORY-INSTALLED METAL EYELETS, FOR EMBEDDING IN CONCRETE TO PREVENT PASSAGE OF FLUIDS THROUGH JOINTS. FACTORY FABRICATE CORNERS, INTERSECTIONS, AND DIRECTIONAL CHANGES. ACCEPTABLE MANUFACTURER IS THE GREENTREK GROUP, INC, 800-325-9504, OR EQUAL. PROFILE SHALL BE FLAT, DUMBBELL WITH CENTER BULB WITH DIMENSIONS OF 6 INCHES BY 3/8 INCH THICK.
 - FLEXIBLE WATERSTOP INSTALLATION: INSTALL IN CONSTRUCTION JOINTS AND AT OTHER JOINTS INDICATED TO FORM A CONTINUOUS DIAPHRAGM. INSTALL IN LONGEST LENGTHS PRACTICABLE. SUPPORT AND PROTECT EXPOSED WATERSTOPS DURING PROGRESS OF THE WORK.
- 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.
- 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 RUSH-HAMMERED, PROVIDE ACCESSORIES OF STAINLESS STEEL.
- DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315. REINFORCEMENT SHALL NOT BE WELDED UNLESS NOTED OR APPROVED BY THE ENGINEER.
- ALL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.
- ALL REINFORCING MARKED "CONT." INDICATES REINFORCING SHALL BE "CONTINUOUS" AND SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.
- PROVIDE CORNER BARS AT ALL CORNERS OF CONTINUOUS REINFORCING IN FOOTINGS, SLABS OR WALLS. CORNER BARS SHALL BE LONG ENOUGH TO PROVIDE A CLASS "B" LAP SPLICE OF REINFORCING BARS.
- CONCRETE COVERAGE OF REINFORCEMENT, UNLESS NOTED:

FOOTINGS-----	2"
TOP & 3" BOTTOM & SIDES COLUMNS & PEDESTALS-----	1-1/2"
CLEAR OF TIES BASEMENT WALLS-----	2"
BOTH FACES BEAMS-----	1-1/2"
CLEAR OF STIRRUPS SLAB FACES NOT EXPOSED TO WEATHER OR EARTH-----	3/4"
SLAB FACES EXPOSED TO WEATHER	
#5 AND LESS-----	1-1/2"
#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.

- COLUMN, PEDESTAL AND WALL VERTICAL REINFORCING: DOWEL TO FOUNDATION WITH HOOKED BARS OF SAME SIZE AND SPACING AS VERTICAL REINFORCING.
- 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.
- EARTH SUPPORTED SLABS:

4" THICK (UNLESS NOTED), 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.
PROVIDE CONTROL AND CONSTRUCTION JOINTS AT MAXIMUM OF 3-4 TIMES SLAB THICKNESS IN FEET OR AS REQUIRED TO PREVENT UNCONTROLLED CRACKING PER ACI RECOMMENDATIONS. AS AN EXAMPLE, FOR A 4" THICK SLAB, PROVIDE JOINTS SPACED 12 - 16 FEET MAXIMUM. PANELS TO BE RECTANGULAR WITH LONG SIDE NOT TO EXCEED 1-1/2X SHORT SIDE. CUTTING SHOULD BE STARTED AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT AGGREGATE FROM BEING DISLODGE. CONTRACTOR SUBMIT PLAN SHOWING LOCATION OF CONSTRUCTION AND CONTROL JOINTS.
FLOOR DESIGN AND CONSTRUCTION BASIS IS ACI 302 AND 360, AND IT IS UNREALISTIC TO EXPECT CRACK-FREE OR CURL-FREE FLOORS. IT IS NORMAL TO EXPECT SOME AMOUNT OF CRACKING AND CURLING IN THE SLAB ON GRADE, AND SUCH OCCURRENCE DOES NOT NECESSARILY REFLECT ADVERSELY ON EITHER THE ADEQUACY OF THE FLOOR DESIGN OR THE QUALITY OF ITS CONSTRUCTION.
EARTH SUPPORTED SLABS SHALL BE MOIST CURED FOR A MINIMUM OF SEVEN DAYS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. CURING COMPOUNDS, UNLESS NOTED, SHALL BE A MINIMUM OF CLEAR, WATERBORNE, MEMBRANE-FORMING CURING COMPOUND MEETING ASTM C 309, TYPE I, CLASS B, SELF-DISSIPATING, CERTIFIED BY CURING COMPOUND MANUFACTURER TO NOT INTERFERE WITH BONDING OF FLOOR COVERING.
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.
WHERE CONTROL JOINTS TERMINATE AT EMBEDDED STEEL ELEMENTS (SUCH AS EDGE REINFORCEMENT AT LOADING DOCKS), PROVIDE JOINT IN STEEL ELEMENT.

- CONTRACTION JOINTS IN WALLS: WALL JOINTS SHALL NOT BE SPACED FARTHER THAN 25 FEET. WALL JOINTS SHALL ADDITIONALLY NOT BE LOCATED WITHIN 4'-0" OF EMBED PLATES OR CORNERS OF THE WALL. DISCONTINUE 50% OF THE WALL HORIZONTAL REINFORCING THROUGH JOINTS; TRIMMING BACK THE REINFORCING BARS 2" FROM THE CONTROL JOINT LOCATION. LOCATE CONTROL JOINTS EACH SIDE OF THE WALL. SEAL JOINTS WITH ELASTOMERIC SEALANT. SEE WALL CONTRACTION JOINT TYPICAL DETAIL.
- WALL AND SLAB OPENINGS AND SLEEVES SMALLER THAN 12" (IN LARGER DIMENSION) ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL SUBMIT ALL OPENINGS (SIZE AND LOCATIONS) AS A SINGLE COORDINATED SLEEVE PLAN FOR REVIEW AND APPROVAL.
- CAST IN PLACE ALL SLEEVES AND INSERTS.
- NO CONDUIT OR PIPE SHALL BE CAST IN THE SLAB ON GRADE WITHOUT THE WRITTEN APPROVAL OF STRUCTURAL DESIGN GROUP.

5.0 ARCHITECTURAL AND STRUCTURAL PRECAST CONCRETE

- REFER TO ARCHITECT'S DRAWINGS AND SPECIFICATIONS FOR DIMENSIONAL, FINISHING, AND OTHER REQUIREMENTS OF ARCHITECTURAL PRECAST.
- PRECAST MANUFACTURER IS TO BE RESPONSIBLE FOR THE DESIGN OF ALL PRECAST MEMBERS AND THEIR CONNECTIONS TO THE STRUCTURE. CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- ANY CONNECTIONS SHOWN ON CONTRACT DRAWINGS ARE SHOWN FOR GENERAL ARRANGEMENT ONLY. THE CONTRACTOR SHALL COORDINATE ALL PRECAST CONNECTIONS AND EMBEDDED ITEMS WITH THE PRECAST MANUFACTURER.
 - CONNECTIONS OF THE PRECAST TO THE STRUCTURE SHALL NOT RESTRAIN THE STRUCTURE'S 1" DOWNWARD MOVEMENT AT ALL BEAMS AND 1" UPWARD MOVEMENT AT ROOF BEAMS.
- ERECTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY BRACING UNTIL ALL CONNECTIONS HAVE BEEN MADE AND TOPPING HAS BEEN CAST.
- PRECAST MANUFACTURER SHALL PROVIDE STABILIZING ANGLES, AS REQUIRED, IN ALL PRECAST WORK.
- ALL EXPOSED STEEL CONNECTIONS AND SUPPORT ANGLES, PLATES, BARS, AND BOLTS IN CONJUNCTION WITH ALL PRECAST CONCRETE SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION AND FIELD TOUCHED UP WITH ZINC RICH PAINT.
- ADJUSTMENT AND POSSIBLY RESETTNG OF PRECAST MAY BE REQUIRED TO ALIGN PRECAST DUE TO SUPPORT DEFLECTION AND/OR ROTATION.
- SUPPORTING BEAMS AND STRUCTURE WILL DEFLECT AND/OR ROTATE. PRECAST MANUFACTURER AND ERECTOR SHALL COORDINATE CONNECTION/ERECTION SEQUENCE TO ACCOUNT FOR THIS MOVEMENT AND MAKE FINAL ADJUSTMENTS TO ALIGN AND PLUMB PRECAST. THIS MAY REQUIRE ADJUSTING CONNECTIONS OR RECONNECTING.

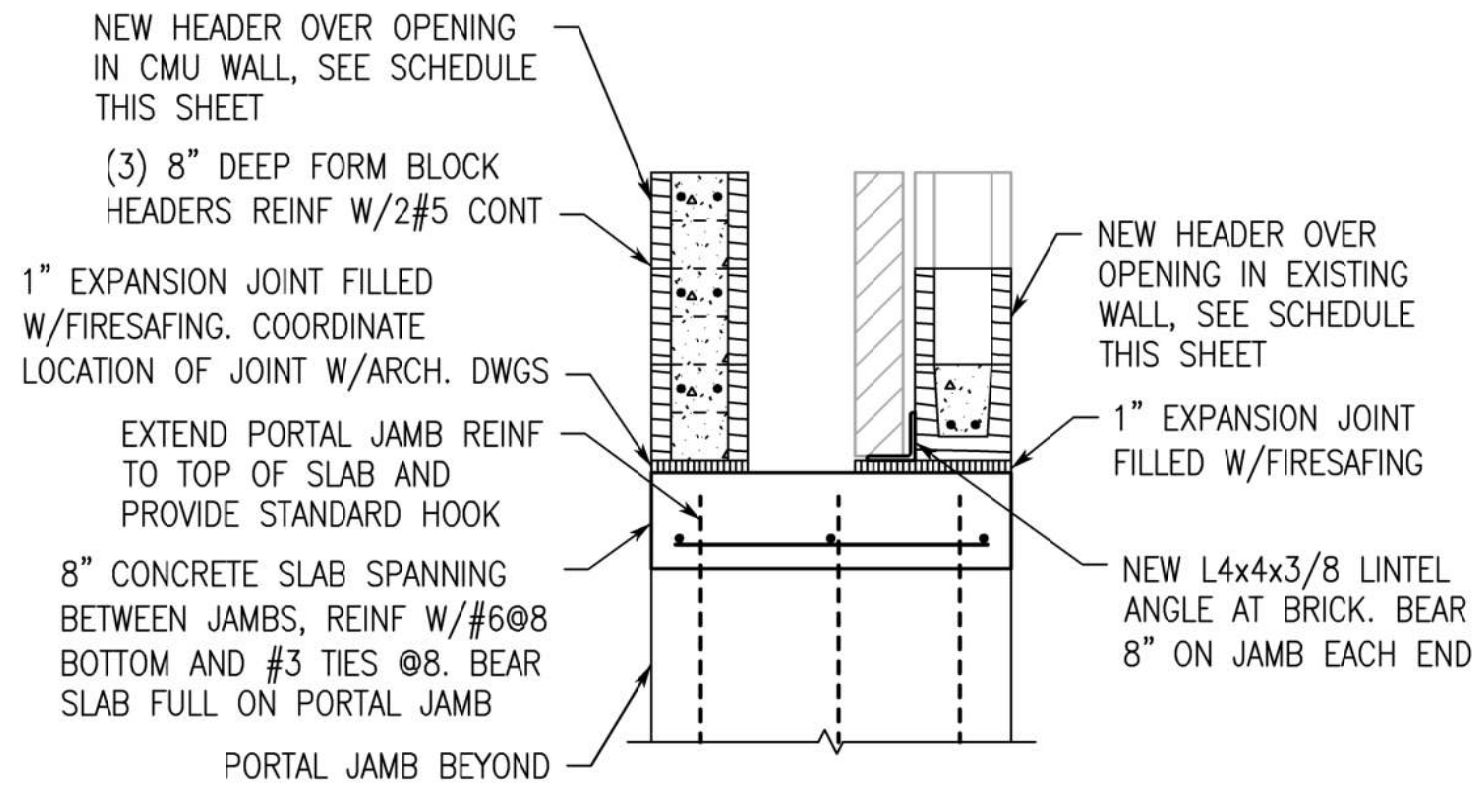
6.0 PRECAST CONCRETE HOLLOW CORE SLABS

- PRECAST MANUFACTURER IS TO BE RESPONSIBLE FOR THE DESIGN OF ALL PRECAST MEMBERS AND THEIR CONNECTIONS TO THE STRUCTURE. CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
 - PRECAST MANUFACTURER SHALL LIMIT USE TO 2" MAXIMUM OF THE TOPPING SLAB FOR COMPOSITE ACTION IN THE DESIGN OF THE PRECAST PANELS TO ALLOW FOR A 1" MAXIMUM CAMBER IN THE SELF-WEIGHT INSTALLED CONDITION.
 - THE REMAINING 1" OF THE TOPPING SLAB IS TO BE APPLIED AS SUPERIMPOSED DEAD LOAD TO THE PRECAST PANELS.
 - PRECAST MANUFACTURER IS TO PROVIDE ANTICIPATED CAMBER & DEFLECTION CALCULATIONS FOR ALL PRECAST PANELS SO THAT IT CAN BE VERIFIED THAT THE POSITIVE CAMBER IN THE SELF-WEIGHT INSTALLED CONDITION HAS BEEN LIMITED TO 1" MAXIMUM.
 - PRECAST MANUFACTURER IS RESPONSIBLE FOR ADDING AND INCLUDING IN THE BASE BID ANY ADDITIONAL REINFORCING STEEL IN THE TOPPING SLAB AS MAY BE REQUIRED TO CONTROL LONG-TERM CREEP ISSUES WITH THE PRESTRESSED SLAB PANELS.
 - PRECAST MANUFACTURER IS TO BE RESPONSIBLE FOR DETERMINING AND VERIFY ANY NECESSARY STEPS, SUCH AS THE ROUGHENING OF PRECAST PANELS AND/OR THE USE OF A CONCRETE BONDING AGENT, IN ORDER TO OBTAIN COMPOSITE ACTION OF THE PRECAST PANELS WITH THE STRUCTURAL TOPPING SLAB. ANY NECESSARY STEPS SHALL BE INDICATED ON THE SUBMITTED CALCULATIONS AND SHOP DRAWINGS BY THE PRECAST MANUFACTURER.
- PRECAST MANUFACTURER SHALL DESIGN HOLLOW CORE SLABS FOR THE SUPERIMPOSED LOADS LISTED BELOW PLUS SELF-WEIGHT PLUS ALL MASONRY BLOCK WEIGHTS, LIVE LOADS, WIND LOADS, OTHER LOADS SHOWN IN THESE DRAWINGS. DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI-318 AND PCI DESIGN HANDBOOK, LATEST EDITION.

3" TOPPING SLAB -----	38 PSF
COLLATERAL DEAD LOAD -----	20 PSF

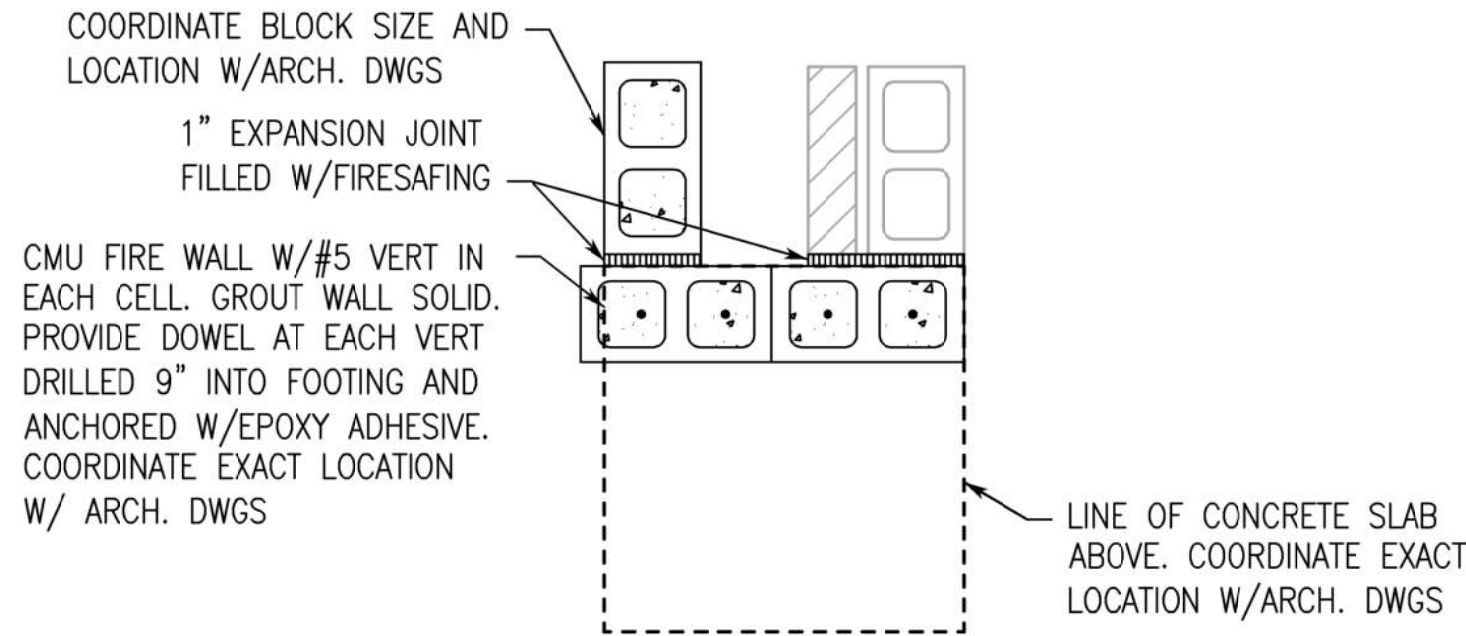
 - FOR LIVE LOADS, SEE GENERAL NOTES 1.2.8 & 1.2.C, PLAN NOTES, AND SECTION NOTES.
 - FOR WIND LOADS, SEE GENERAL NOTE 1.3.C, COMPONENTS AND CLADDING WIND LOAD TABLES ON SL.3, TYPICAL DETAILS, PLAN NOTES, AND SECTION NOTES.
 - FOR HOUSEKEEPING PADS UNDER MECHANICAL UNITS, COORDINATE SIZE AND LOCATION OF HOUSEKEEPING PADS WITH MECHANICAL DRAWINGS.
- ANY CONNECTIONS SHOWN ON CONTRACT DRAWINGS ARE SHOWN FOR GENERAL ARRANGEMENT ONLY. THE CONTRACTOR SHALL COORDINATE ALL PRECAST CONNECTIONS AND EMBEDDED ITEMS WITH THE PRECAST MANUFACTURER.
- REINFORCE 3" TOPPING SLAB WITH 6X6 W1.4/W1.4 WWR FLAT SHEETS AT MID-DEPTH OF TOPPING.
 - CONDUITS AND PIPING SHALL NOT BE PLACED IN THE TOPPING SLAB.
- ERECTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY BRACING UNTIL ALL CONNECTIONS HAVE BEEN MADE AND TOPPING HAS BEEN CAST.
- PRECAST MANUFACTURER SHALL PROVIDE STABILIZING ANGLES, AS REQUIRED, IN ALL PRECAST WORK.

- ALL EXPOSED STEEL CONNECTIONS AND SUPPORT ANGLES, PLATES, BARS, AND BOLTS IN CONJUNCTION WITH ALL PRECAST CONCRETE SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION AND FIELD TOUCHED UP WITH ZINC RICH PAINT.
 - PRECAST CONCRETE HOLLOW CORE SLAB LOCATIONS SHOWN ON THE DRAWINGS ARE ESTIMATED AND SHALL BE VERIFIED BY THE PRECAST MANUFACTURER.
 - CONTRACTOR IS TO COORDINATE (MECHANICAL, ELECTRICAL, PLUMBING, ETC.) OPENINGS IN HOLLOW CORE PRECAST CONCRETE SLAB PANELS WITH PRECAST MANUFACTURER.
 - ALL FIELD CUT OPENINGS THROUGH HOLLOW CORE PRECAST CONCRETE SLAB PANELS SHALL BE LOCATED TO AVOID CUTTING PRESTRESS STRANDS UNLESS GIVEN APPROVAL BY THE PRECAST MANUFACTURER PRIOR TO COMMENCING WORK.
 - ALL OPENINGS IN THE PRECAST PANELS SHALL BE SHOWN ON THE PRECAST PANEL SHOP DRAWINGS. EXACT LOCATIONS AND OPENING DIMENSIONS SHALL BE INDICATED. ANY DETAILING NECESSARY FOR THE SUPPORT OF THE PANELS AT THE OPENINGS SHALL BE INDICATED ON THE SHOP DRAWINGS. ANY ADDITIONAL STEEL FRAMING REQUIRED AT SLAB OPENINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND INCLUDED IN THE BID AND SHALL BE PROVIDED AT NO ADDITIONAL EXPENSE TO THE OWNER.
 - BEARING STRIPS SHALL BE RANDOM ORIENTED FIBER REINFORCED MATERIAL CAPABLE OF SUPPORTING A COMPRESSIVE STRESS OF 3000 PSI WITH NO CRACKING, SPLITTING, OR DELAMINATION.
- ### 7.0 STRUCTURAL STEEL
- FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
 - THE STEEL FRAME IS "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE.
 - STRUCTURAL STEEL: ASTM A992 FOR WIDE FLANGE BEAMS AND COLUMNS; ASTM A36 FOR S, M, AND HP SHAPES AND CHANNELS; ASTM A36 FOR STIFFENER PLATES, BASE PLATES, COLUMN CAP PLATES, BEAM CONNECTION PLATES, AND STEEL ANGLES.
 - HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A500, GRADE B.
 - WELDED CONNECTIONS: E70XX ELECTRODES, MINIMUM SIZE FILLET WELD 3/16". WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.1, THE STRUCTURAL WELDING CODE - STEEL.
 - THREADED AND PLAIN STEEL RODS: ASTM A36.
 - HIGH STRENGTH THREADED RODS: ASTM A193 B7
 - ANCHOR RODS: ASTM F1554 GRADE 36 ANCHOR AND HEAVY HEX NUT, UNLESS OTHERWISE INDICATED. IF ANCHOR ROD ASSEMBLIES ARE NOT ENCASED IN MINIMUM OF 3" OF CONCRETE, ANCHOR ROD ASSEMBLIES ARE TO BE HOT DIP GALVANIZED.
 - HEADED STUDS: TYPE 8 SHEAR STUD CONNECTORS MADE FROM ASTM A108, GRADE 1015 OR 1020, COLD-FINISHED CARBON, AND COMPLYING WITH AWS D1.1.
 - CONNECTIONS:
 - BEARING TYPE A325-N IN ACCORDANCE WITH RCSC (LRFD OR ASD VERSION) "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". BOLTS THROUGH 4" WIDE BEAM FLANGES SHALL BE 5/8" DIAMETER. OTHER BOLTS SHALL BE 3/4" DIAMETER.
 - BOLTS SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC INDICATION THAT BOLTS MAY BE USED. ACTUAL NUMBER, UNLESS SPECIFIED, TO BE IN ACCORDANCE WITH AISC.
 - ALL STRUCTURAL STEEL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED TO RESIST FORCES INDICATED, BY THE CONTRACTOR.
 - WHERE BEAM REACTIONS ARE SHOWN ON THE DRAWINGS, THE CONNECTIONS SHALL DEVELOP THE REACTIONS SHOWN. WHERE CONNECTIONS ARE SUBJECT TO ECCENTRICITY, SUCH ECCENTRICITY SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING AND DETAILING THE CONNECTION.
 - WHERE BEAM REACTIONS OR DESIGN FORCES ARE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL CONTACT STRUCTURAL DESIGN GROUP FOR DIRECTION.
 - DESIGN CALCULATIONS FOR THE CONNECTIONS DESIGNED BY THE CONTRACTOR SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT AND ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. SHOP DRAWINGS CONTAINING CONNECTIONS FOR WHICH CALCULATIONS HAVE NOT BEEN RECEIVED WILL BE RETURNED UNCHECKED AS AN INCOMPLETE SUBMITTAL.
 - ALL STRUCTURAL STEEL, INCLUDING EXPOSED BOLTS, NUTS, WASHERS OR ANCHOR RODS, EXPOSED TO WEATHER IN THE FINAL CONFIGURATION OF THE STRUCTURE SHALL BE HOT-DIP GALVANIZED, UNLESS NOTED, PER ASTM A 123/A 123M. VENT HOLES SHALL BE FILLED AND GROUND SMOOTH AFTER GALVANIZING. DAMAGE TO GALVANIZING SHALL BE PAINTED WITH GALVANIZING REPAIR PAINT, SSPC-PAINT 20. SEE 05120 SPECIFICATION FOR PAINT REQUIREMENTS FOR STEEL THAT IS GALVANIZED AND PAINTED.
 - ALL STEEL EXPOSED TO WEATHER, INCLUDING STEEL LINTELS FOR MASONRY OPENINGS, EXCEPT WHERE FABRICATED OF APPROVED CORROSION-RESISTANT STEEL OR OF STEEL HAVING A CORROSION RESISTANT OR OTHER APPROVED COATING, SHALL BE PROTECTED AGAINST CORROSION WITH AN APPROVED COAT OF PAINT, ENAMEL, OR OTHER APPROVED PROTECTION.
 - STEEL STAIRS AND ASSOCIATED EMBEDS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED TO RESIST THE PROJECT DESIGN LOADS INDICATED ABOVE, BY THE CONTRACTOR, UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. STAIRS SHALL BE DESIGNED IN ACCORDANCE WITH THE NAAMM METAL STAIR MANUAL AND AISC, AND AS LISTED BELOW. CALCULATIONS SHALL BEAR THE SEAL OF THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE INCLUDED WITH THE STAIR SHOP DRAWINGS.
 - STAIR FRAMING SHALL BE CAPABLE OF WITHSTANDING STRESSES RESULTING FROM RAILING LOADS IN ADDITION TO LOADS SPECIFIED ABOVE.
 - LIMIT DEFLECTION OF TREADS, PLATFORMS, AND FRAMING MEMBERS TO L/360 OR 1/4 INCH, WHICHEVER IS LESS.
 - DESIGN OF STAIR FRAMING SHALL ALSO COMPLY WITH AISC'S "STEEL DESIGN GUIDE SERIES 11; FLOOR VIBRATIONS DUE TO HUMAN ACTIVITY."



SECTION AT PORTAL FRAME

3/4\"=1'-0"



PLAN AT PORTAL FRAME

3/4\"=1'-0"

MASONRY REINFORCING LAP SPICE LENGTHS		
BAR SIZE (#)	CENTERED (IN.)	EDGE (IN.)
3	18.0	18.0
4	24.0	29.0
5	30.0	45.0
6	43.0	54.0
7	60.0	63.0
8	72.0	72.0
9	82.0	82.0

NOTES:

- LAP SPICE LENGTHS APPLY TO BOTH HORIZONTAL AND VERTICAL REINFORCING.
- REINFORCEMENT LARGER THAN NO. 9 BAR SHALL BE SPICED USING MECHANICAL CONNECTIONS IN ACCORDANCE WITH ACI 530 & ACI 530.1.

VENEER LINTEL SCHEDULE

MAXIMUM OPENING WIDTH	STEEL FOR EACH 4" OF WALL THICKNESS
2'-0"	L3 1/2x3 1/2x3/8
4'-0"	L3 1/2x3 1/2x3/8
6'-0"	L5x5x3/8
8'-0"	L6x4x3/8 (LONG LEG VERTICAL)
LARGER	CONTACT ENGINEER

- PROVIDE 8" MINIMUM BEARING FOR ALL LINTELS.
- ALL EXPOSED LINTEL ANGLES TO BE HOT DIP GALVANIZED.

LOAD BEARING RUNNING BOND MASONRY LINTEL SCHEDULE

MAXIMUM OPENING WIDTH	LINTEL DIMENSIONS AND REINFORCING		
	DEPTH	8" WALL	12" WALL
4'-0"	32	2#4 BOT & 2#4 TOP	2#4 BOT & 2#4 TOP
6'-0"	32	2#4 BOT & 2#4 TOP	2#5 BOT & 2#5 TOP
8'-0"	32	2#5 BOT & 2#5 TOP	2#5 BOT & 2#5 TOP
10'-0"	40	2#7 BOT & 2#7 TOP	2#6 BOT & 2#6 TOP

- PROVIDE 24" MINIMUM BEARING FOR ALL LINTELS. FILL CELLS SOLID AT EACH SIDE OF OPENING AND REINFORCE WITH 2#5 BAR CONTINUOUS, UNLESS NOTED.
- SHORE LINTEL UNTIL MORTAR AND GROUT HAVE SET AND CURED.
- PROVIDE 8" DEEP BOND BEAM REINFORCED WITH 1#4 CONT AT BOTTOM OF ALL WINDOW OPENINGS. EXTEND 24" PAST OPENING ON EACH SIDE OF WINDOW OPENING.

TENSION LAP SPICE 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"

NOTES:

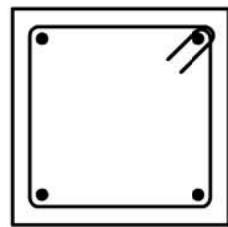
- TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF CONCRETE CAST BELOW THE REINFORCEMENT.
- FOR TENSION LAP SPICE LENGTHS FOR 3500 PSI CONCRETE, USE LENGTHS DESIGNATED FOR 3000 PSI CONCRETE.

PIPING WEIGHTS

PIPE DIAMETER	PIPE WT PER/FOOT (PLF)	FLUID WT PER/FOOT (PLF)	INSULATION & HANGERS (PLF)	TOTAL WT PER/FOOT (PLF)
4"	10.80	6.10	2.00	18.90
6"	19.00	13.80	3.00	35.80
8"	28.60	23.90	4.00	56.50
10"	40.50	37.50	4.00	82.00
12"	49.60	54.00	5.00	108.60
14"	54.60	65.70	5.00	125.30
16"	62.60	87.10	5.00	154.70

NOTES:

- FROM ANVIL INTERNATIONAL PIPE FITTERS HANDBOOK.
- ALL PIPES ASSUMED TO BE SCHEDULE 40.
- FLUID WEIGHT INCLUDES ALLOWANCE FOR GLYCOL CONCENTRATION.
- PIPING SUPPORT AND THRUST BRACING REQUIREMENTS SHALL BE COORDINATED BY THE GENERAL CONTRACTOR WITH THE STEEL/JOIST FABRICATOR. SEE MECHANICAL/PLUMBING DRAWINGS FOR PIPING SUPPORT AND THRUST BRACING REQUIREMENTS.
- FOR PIPE SIZES NOT LISTED, CONTACT STRUCTURAL ENGINEER.



NOTE: ALTERNATE POSITION OF TIE HOOKS IN PLACING SUCCESSIVE SETS OF TIES

COLUMN TIE DETAILS

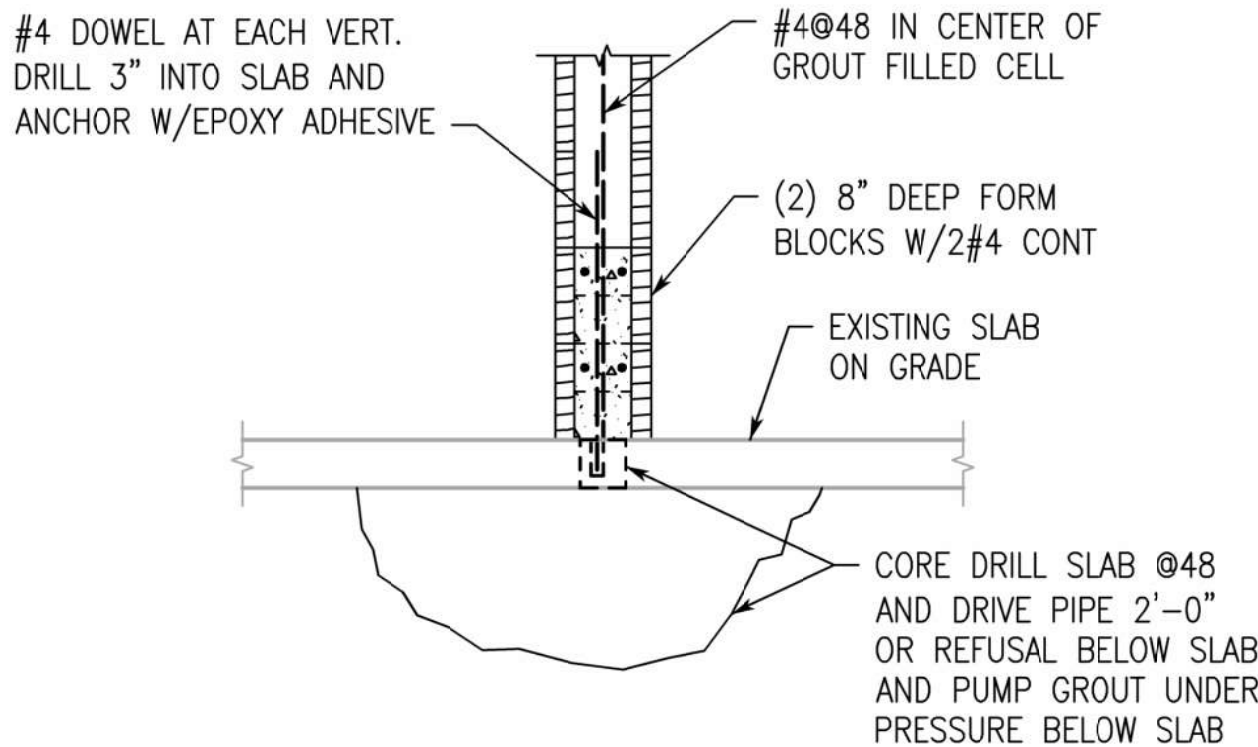
TYPICAL

MASONRY COLUMN SCHEDULE (MC)

COLUMN DESIGNATION		MC1	MC2
COLUMN	SIZE	8x16	12x16
	VERTICALS	4#5	4#5
	TIES	#3@8	#3@8
	NOTES		

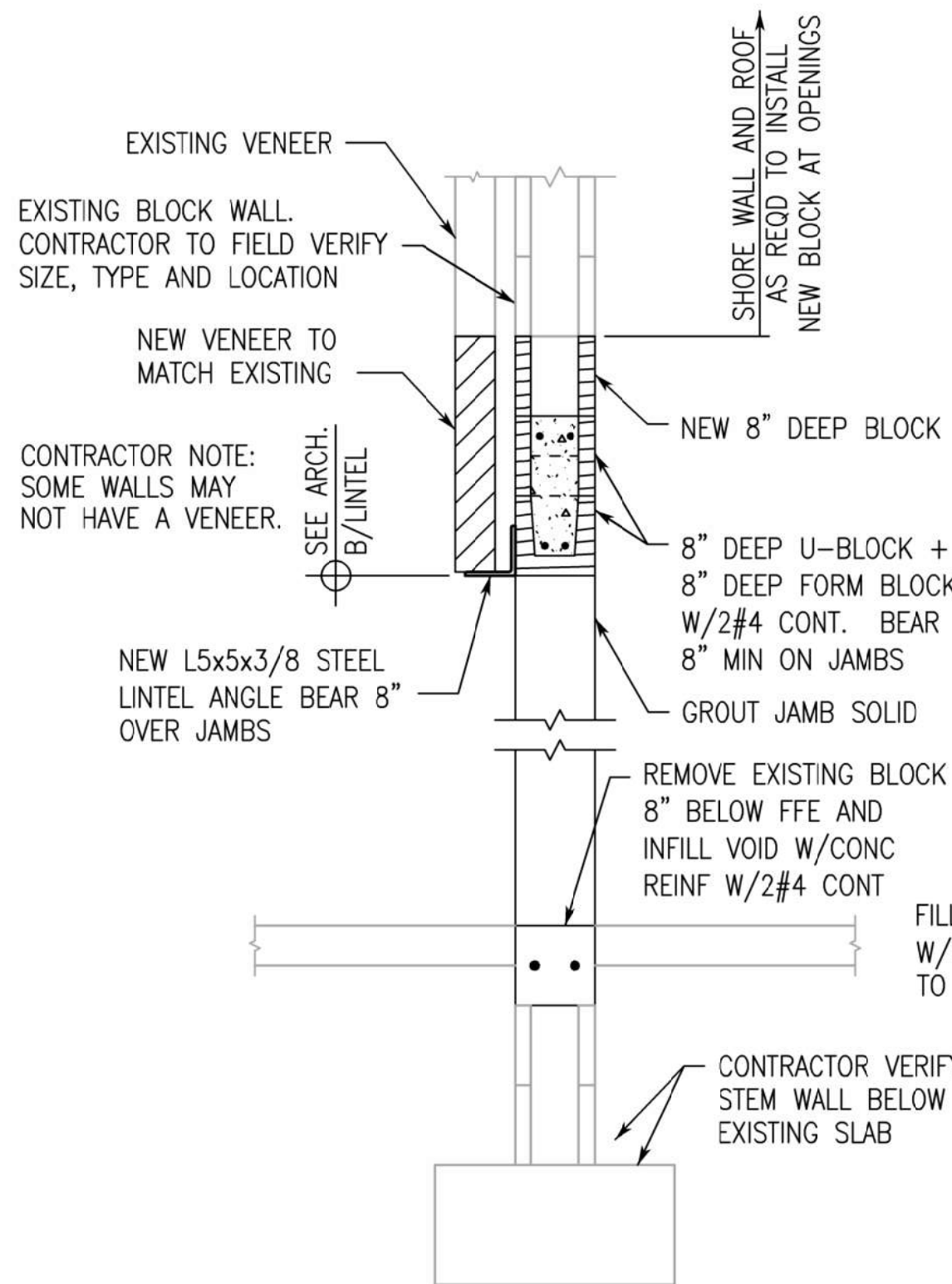
NOTES:

- SEE COLUMN TIE DETAIL THIS SHEET.
- DOWEL VERTICAL STEEL INTO FOOTING THE THICKNESS OF THE FOOTING MINUS 3" WITH STANDARD HOOK. LAP DOWELS WITH VERTICALS 72 BAR DIA.
- EXTEND VERTICALS FULL HEIGHT OF WALL UNLESS NOTED.



NEW WALL BEARING ON EXISTING SLAB

TYPICAL



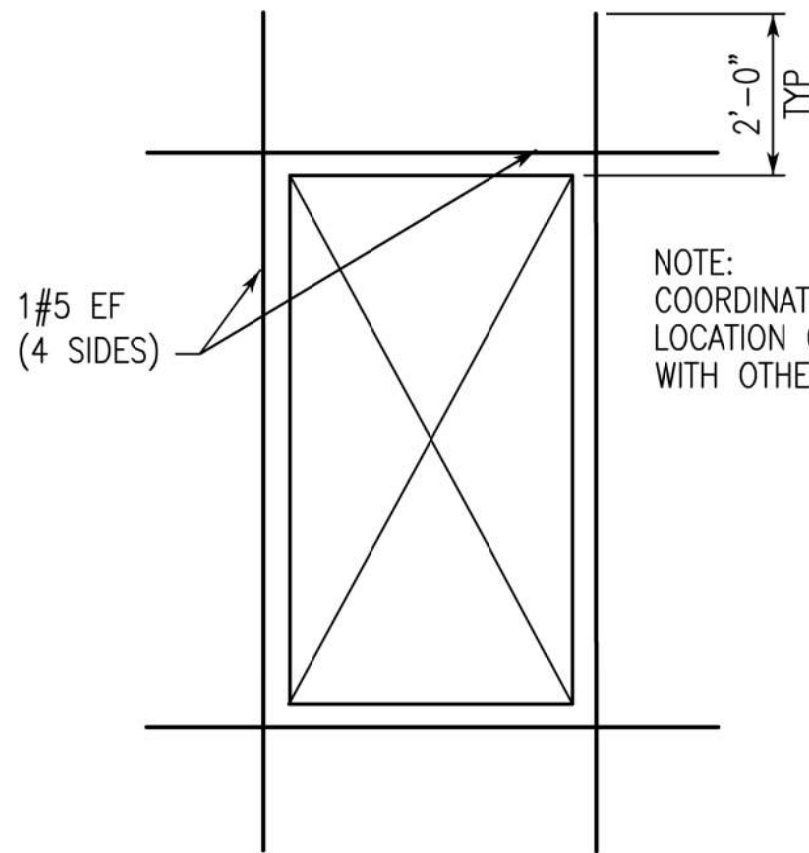
SECTION

3/4\"=1'-0"

A
S1.3

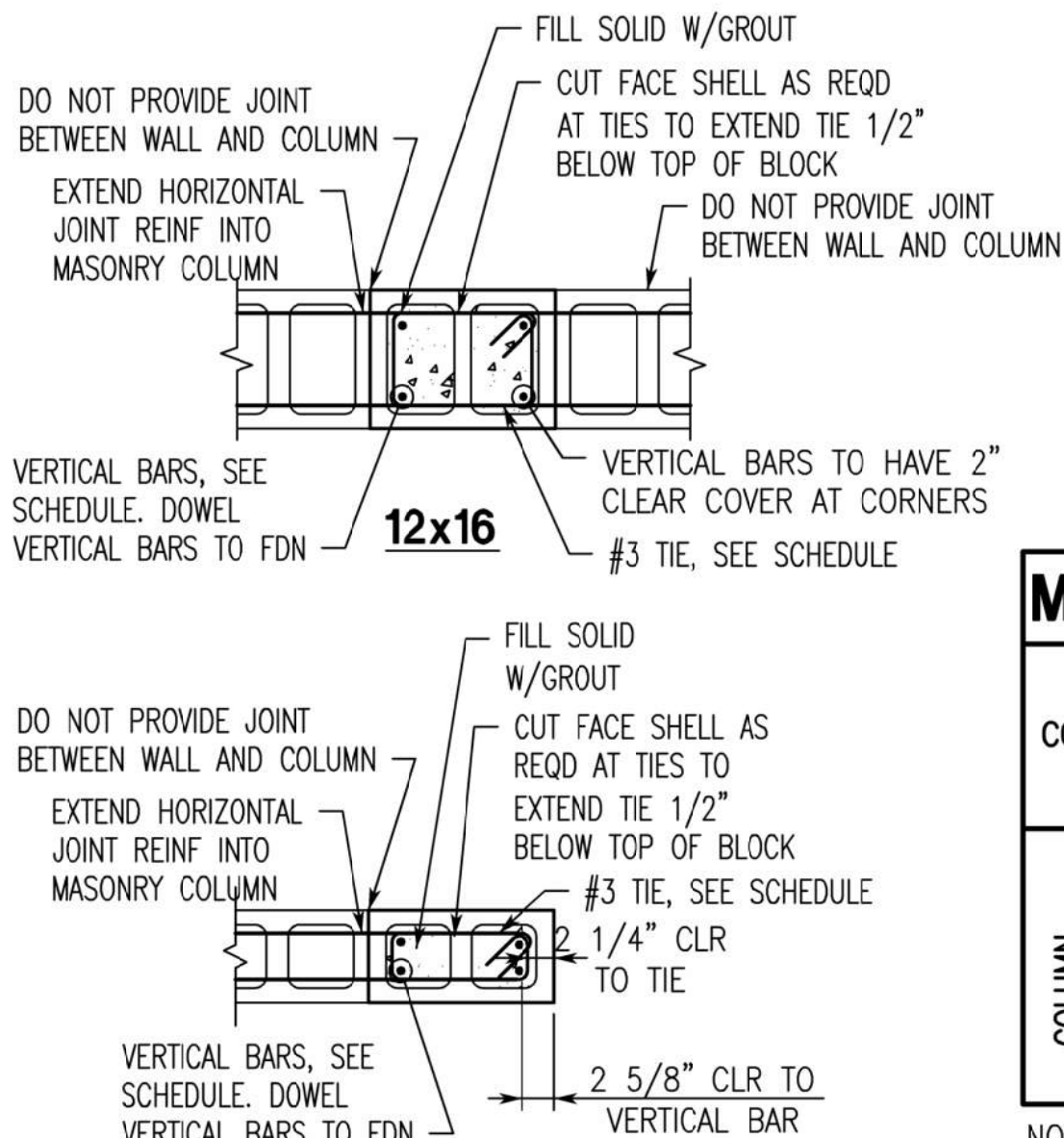
ELEVATION AT NEW OPENING IN EXISTING WALL

1/4\"=1'-0"



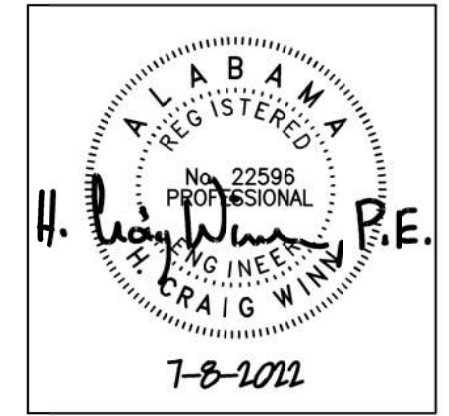
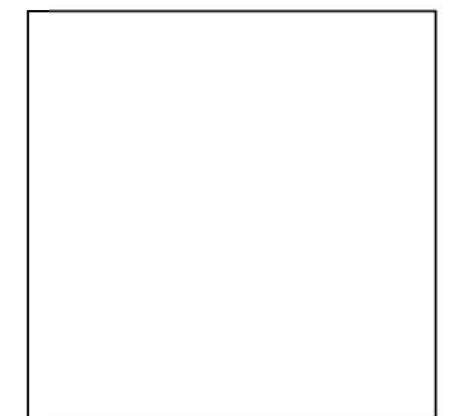
WALL OPENING REINFORCEMENT DETAIL

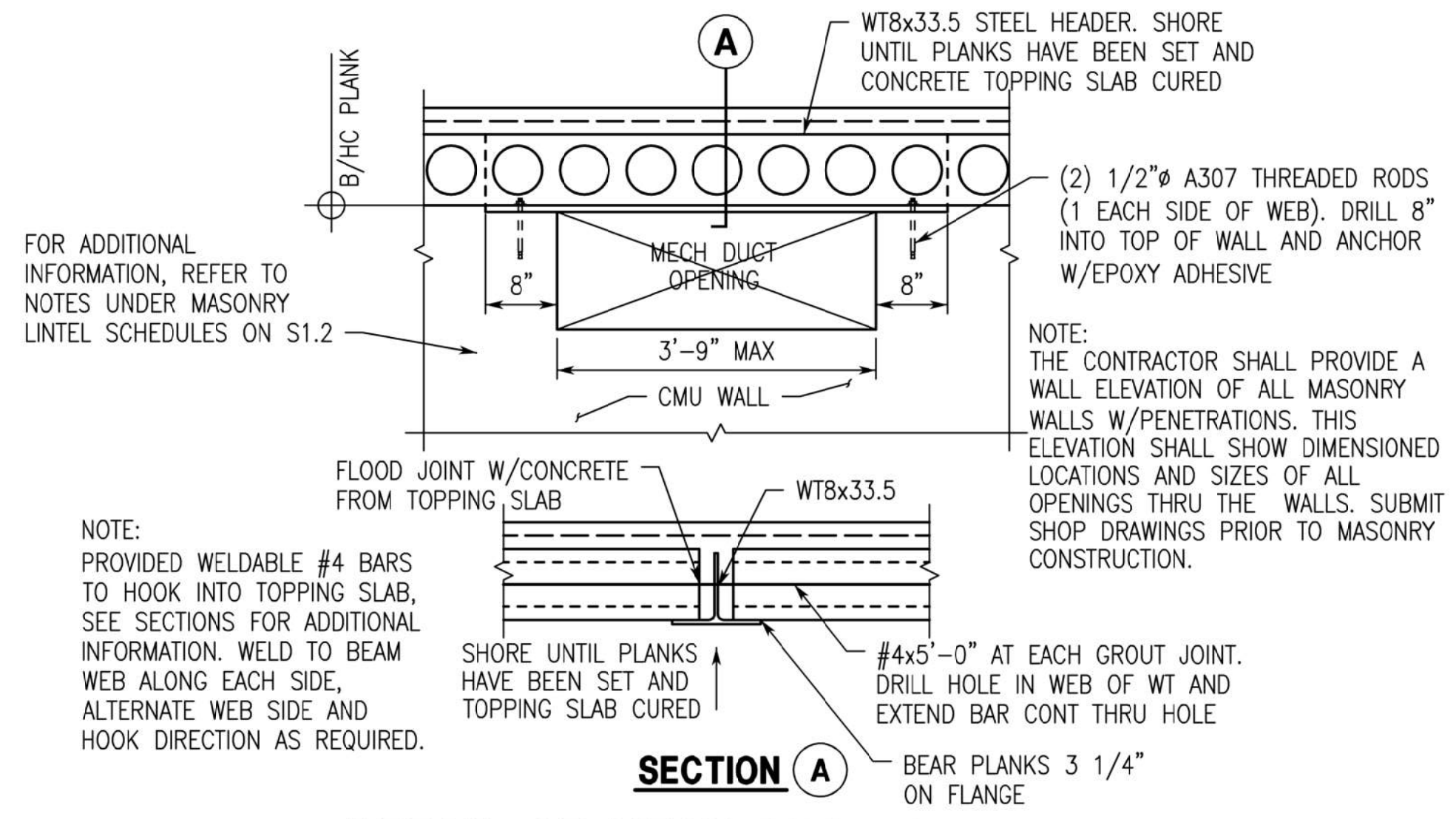
TYPICAL



MASONRY COLUMN (MC)

TYPICAL

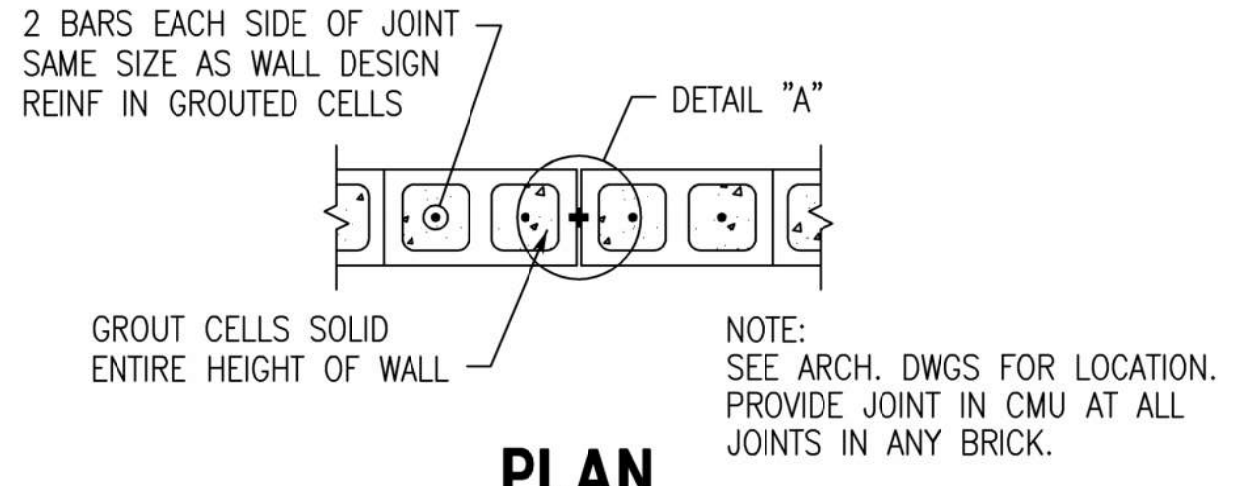




SECTION A
DETAIL AT MECH DUCT OPENING
BELOW HOLLOW CORE PANELS

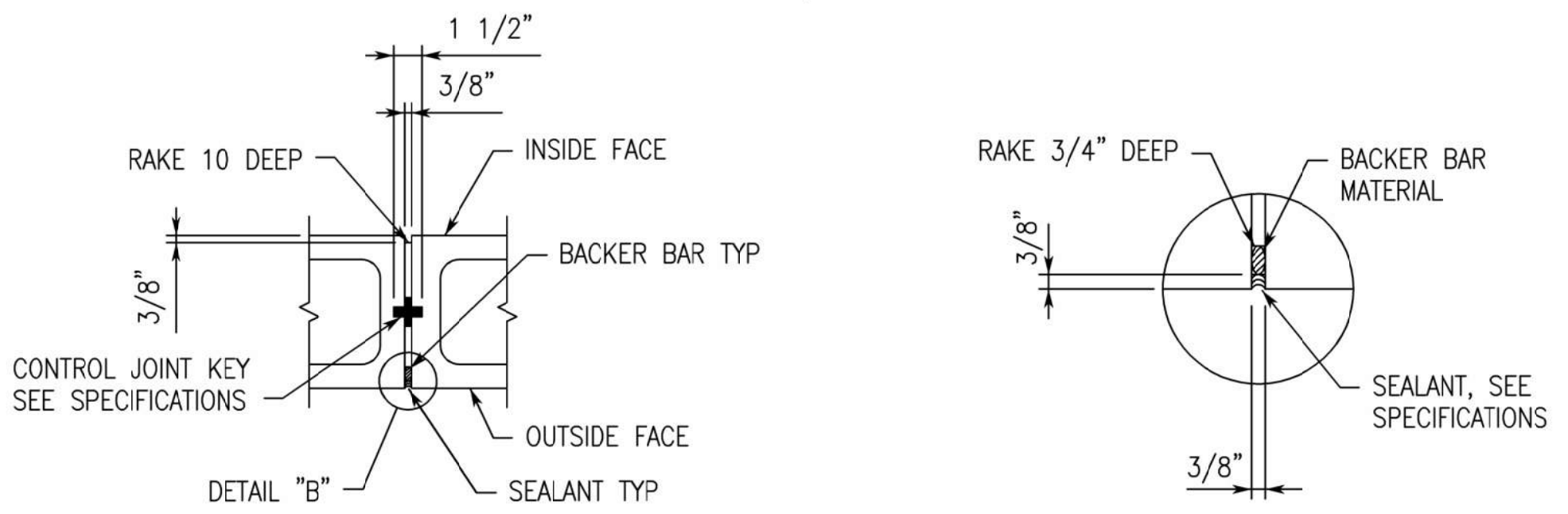
NOT TO SCALE

AT OPENINGS WITHIN STORM SHELTER MASONRY WALL, MINIMUM BEARING TO BE INCREASED TO 16" IN LIEU OF 8" AND PROVIDE (4) THREADED RODS (2 EACH SIDE OF WEB AT 8" GAGE).



PLAN
MASONRY CONTROL JOINT

3/4"=1'-0"

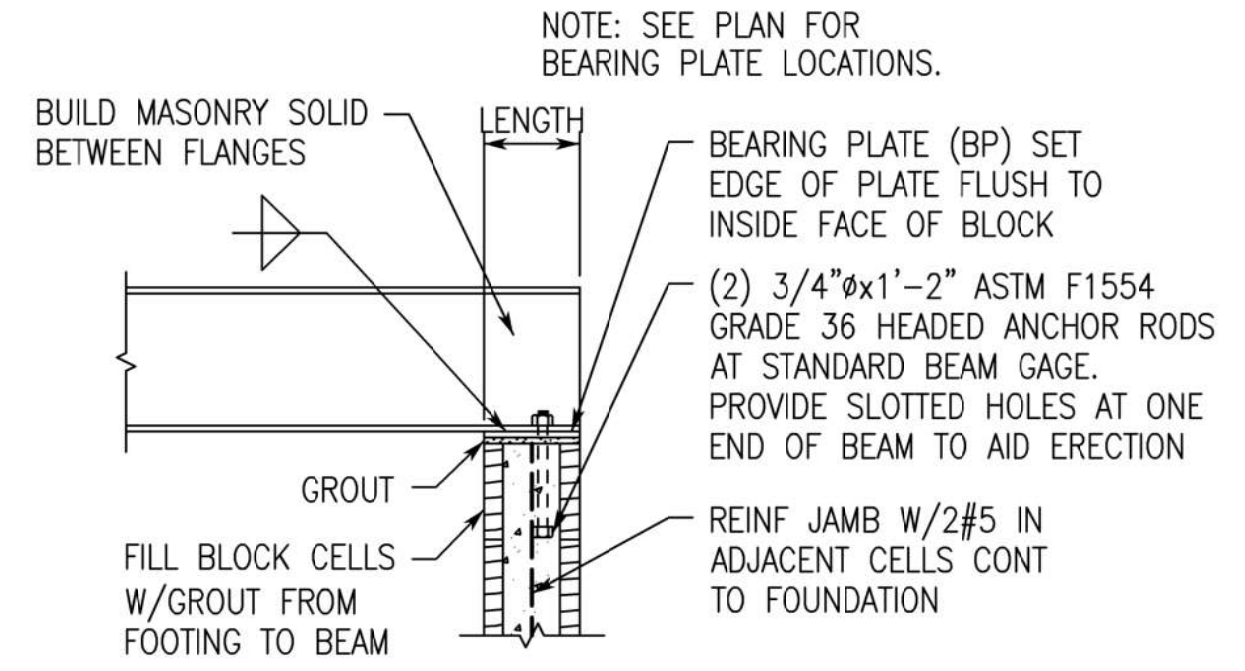


DETAIL "A"
MASONRY CONTROL JOINT

1 1/2"=1'-0"

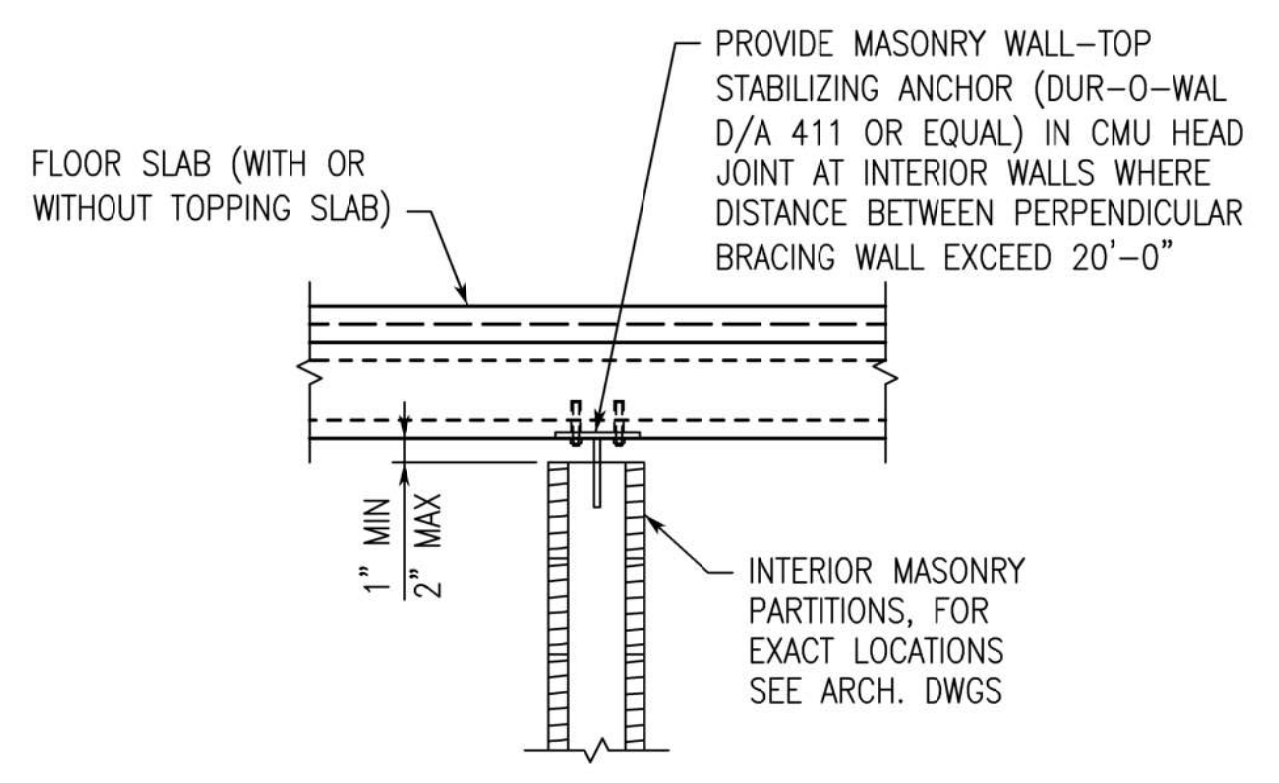
DETAIL "B"
MASONRY CONTROL JOINT

3"=1'-0"



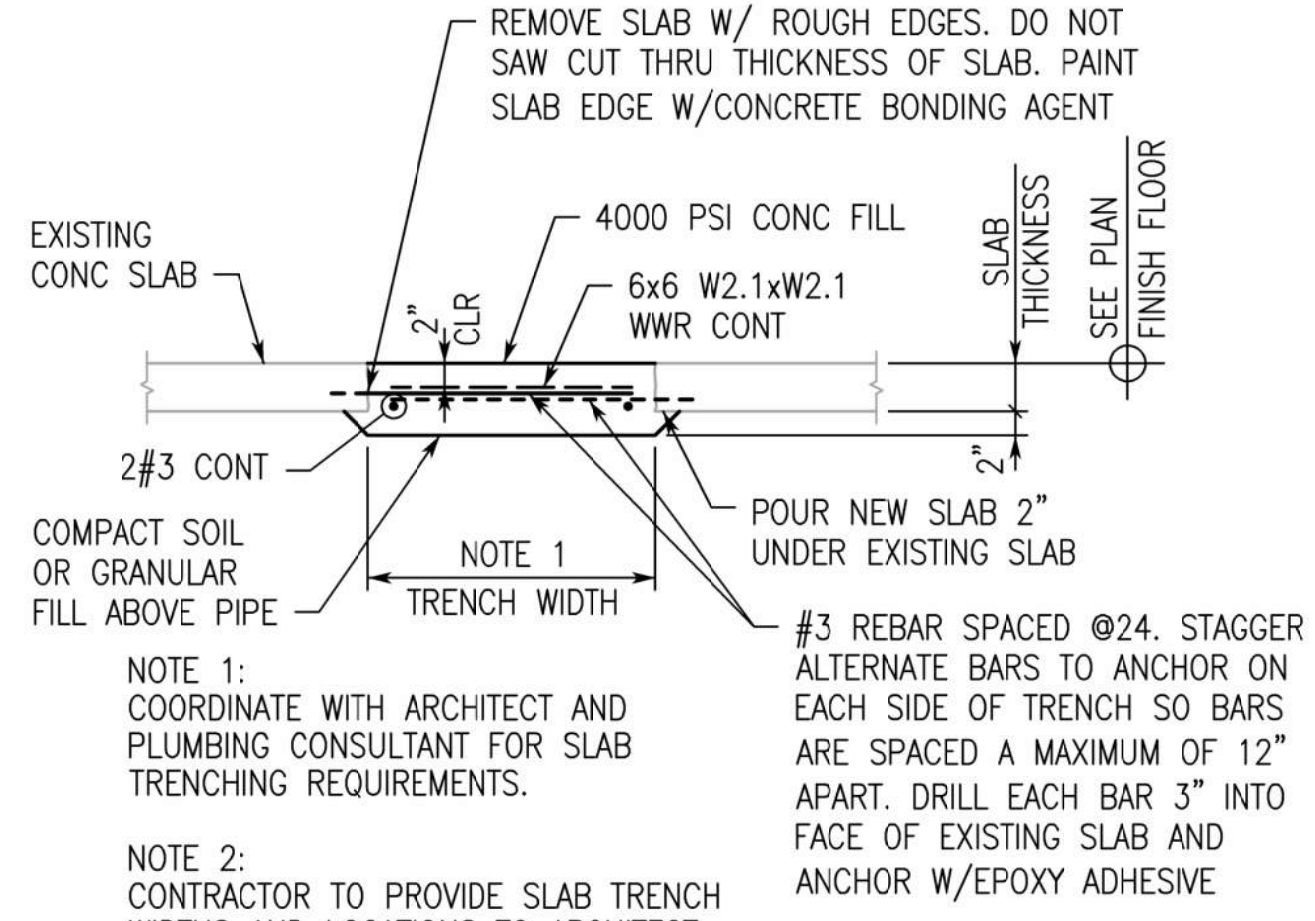
BEARING PLATE SCHEDULE:		
	THICKNESS	WIDTH
BP1	1/2"	10"
BP2	1/2"	10"

BEAM BEARING DETAIL
TYPICAL



INTERIOR MASONRY WALL
BRACING DETAILS

TYPICAL



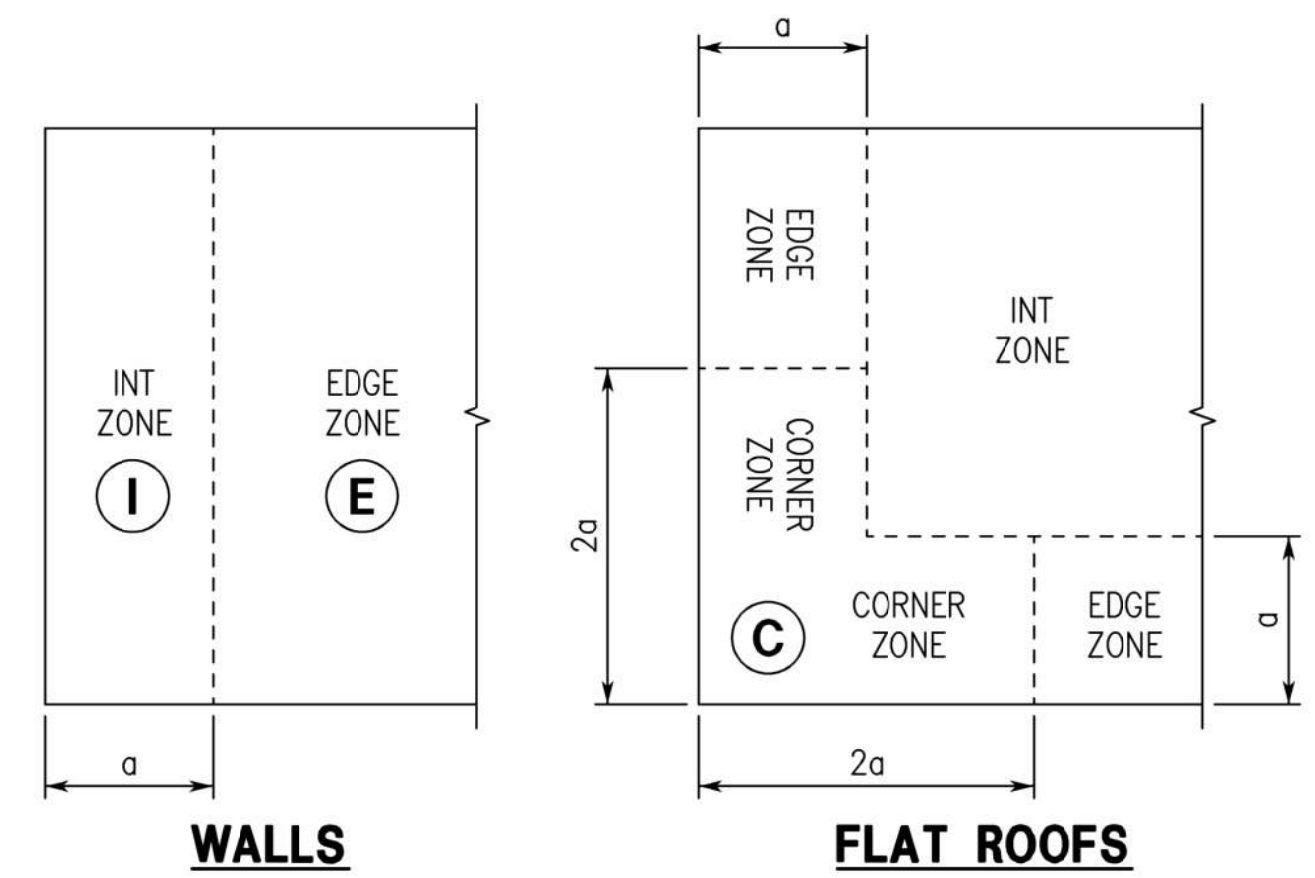
SLAB TRENCHING DETAIL
TYPICAL

COMPONENTS AND CLADDING WIND LOADS FOR WALLS (PSF)			
H = 13'-0"	EFFECTIVE WIND AREA (FT2)	120 MPH ULTIMATE DESIGN WIND SPEED	
INT. ZONE	10	31.4	-34.1
	20	30.0	-32.7
	50	28.1	-30.8
	100	26.7	-29.4
	200	25.3	-28.0
	500	23.5	-26.1
EDGE ZONE	10	31.4	-42.1
	20	30.0	-39.2
	50	28.1	-35.5
	100	26.7	-32.7
	200	25.3	-29.9
	500	23.5	-26.1

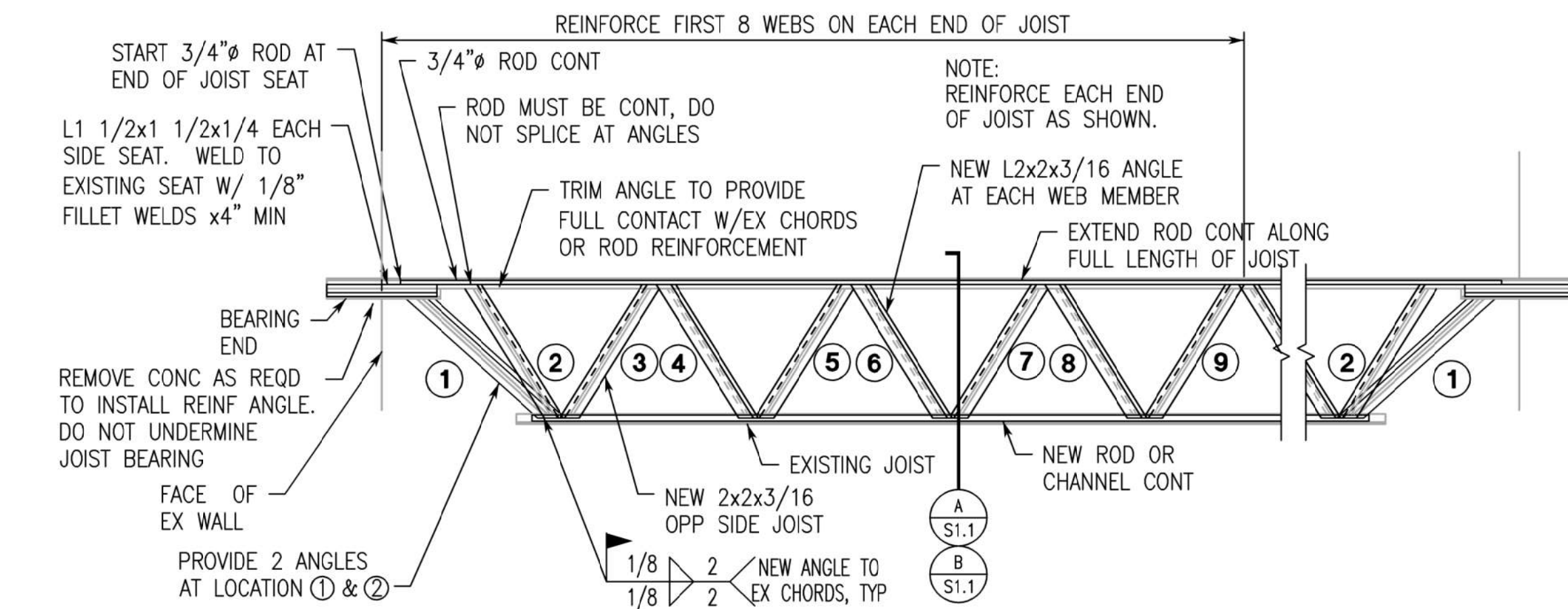
- NOTES:
1. WIDTH OF EDGE STRIP, a = 3'-6".
 2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-10 STANDARD TABLE 30.3-1 AND IMPORTANCE FACTOR.
 3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES.
 4. EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD THE SPAN LENGTH.
 5. WIND PRESSURES IN THESE TABLES SHALL BE MULTIPLIED BY 0.6 TO OBTAIN NOMINAL WIND PRESSURES.

COMPONENTS AND CLADDING WIND LOADS FOR ROOF (PSF)			
H = 13'-0"	EFFECTIVE WIND AREA (FT2)	120 MPH ULTIMATE DESIGN WIND SPEED	
1/2:12 Roof Slope			
INT. ZONE	10	16.0	-31.4
	20	16.0	-30.6
	50	16.0	-29.6
	100	16.0	-28.8
	200	16.0	-28.8
	500	16.0	-28.8
EDGE ZONE	10	16.0	-52.7
	20	16.0	-47.1
	50	16.0	-39.7
	100	16.0	-34.1
	200	16.0	-34.1
	500	16.0	-34.1
CORNER ZONE	10	16.0	-79.3
	20	16.0	-65.7
	50	16.0	-47.7
	100	16.0	-34.1
	200	16.0	-34.1
	500	16.0	-34.1

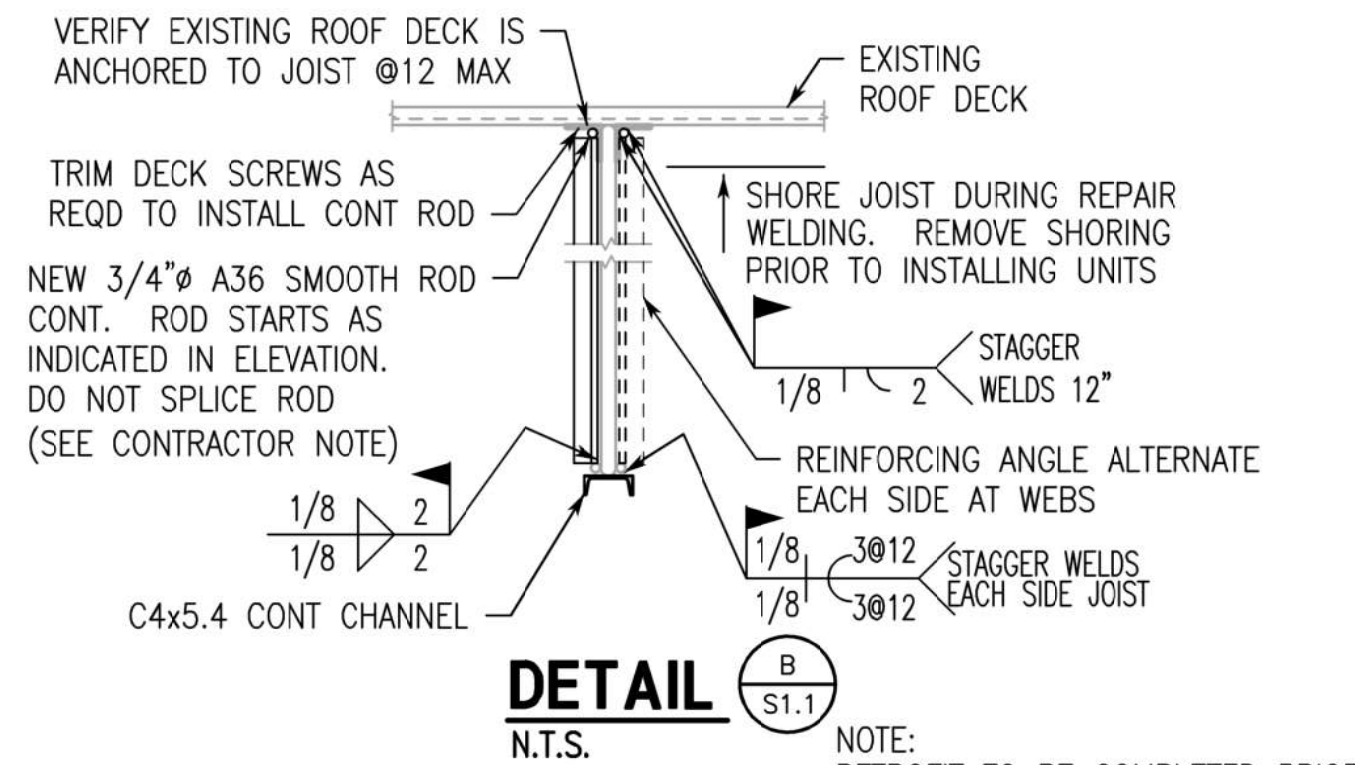
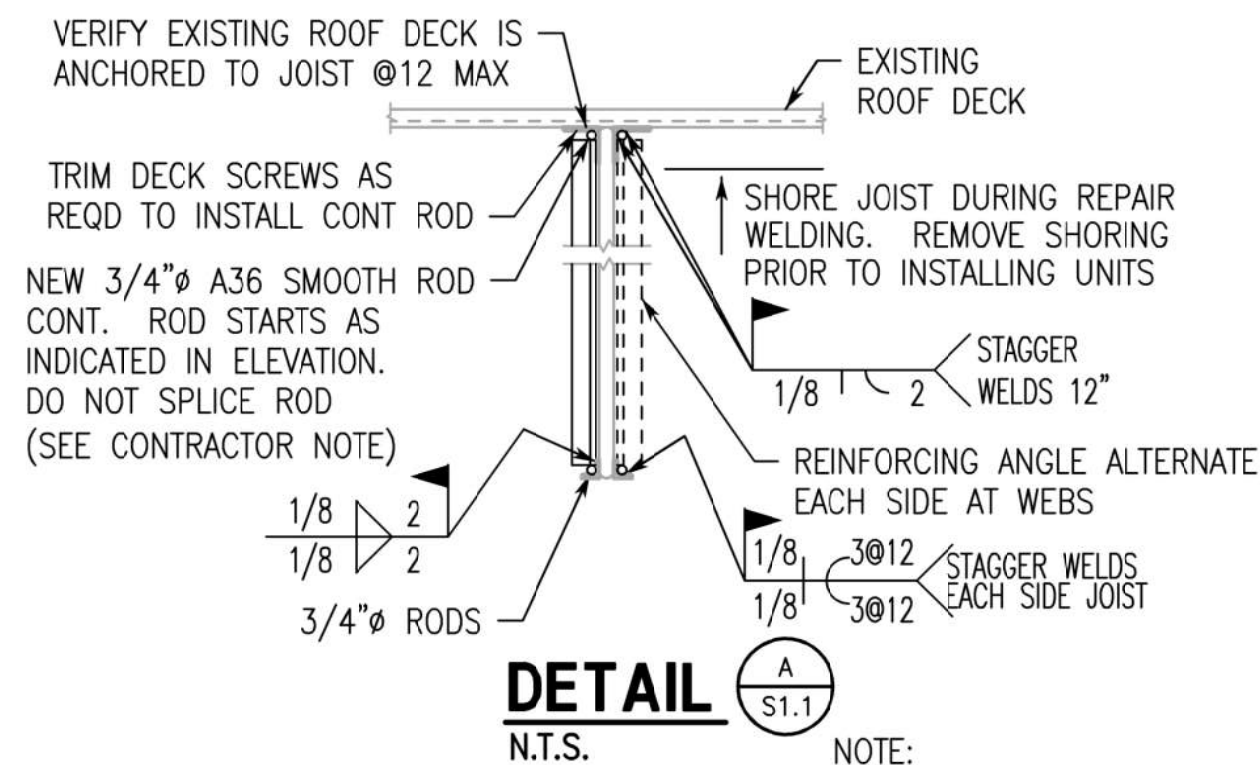
- NOTES:
1. WIDTH OF EDGE STRIP, a = 3'-6".
 2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-10 STANDARD TABLE 30.3-1 AND IMPORTANCE FACTOR.
 3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES.
 4. EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD THE SPAN LENGTH.
 5. CONSIDER 5 PSF MINIMUM DEAD LOAD FOR UPLIFT CALCULATIONS FOR ROOF JOISTS AND 2 PSF MINIMUM DEAD LOAD FOR UPLIFT CALCULATIONS FOR ROOF DECK.
 6. WIND PRESSURES IN THESE TABLES SHALL BE MULTIPLIED BY 0.6 TO OBTAIN NOMINAL WIND PRESSURES.



WALLS
FLAT ROOFS
WALL AND ROOF WIND PRESSURE ZONE DIAGRAMS
TYPICAL

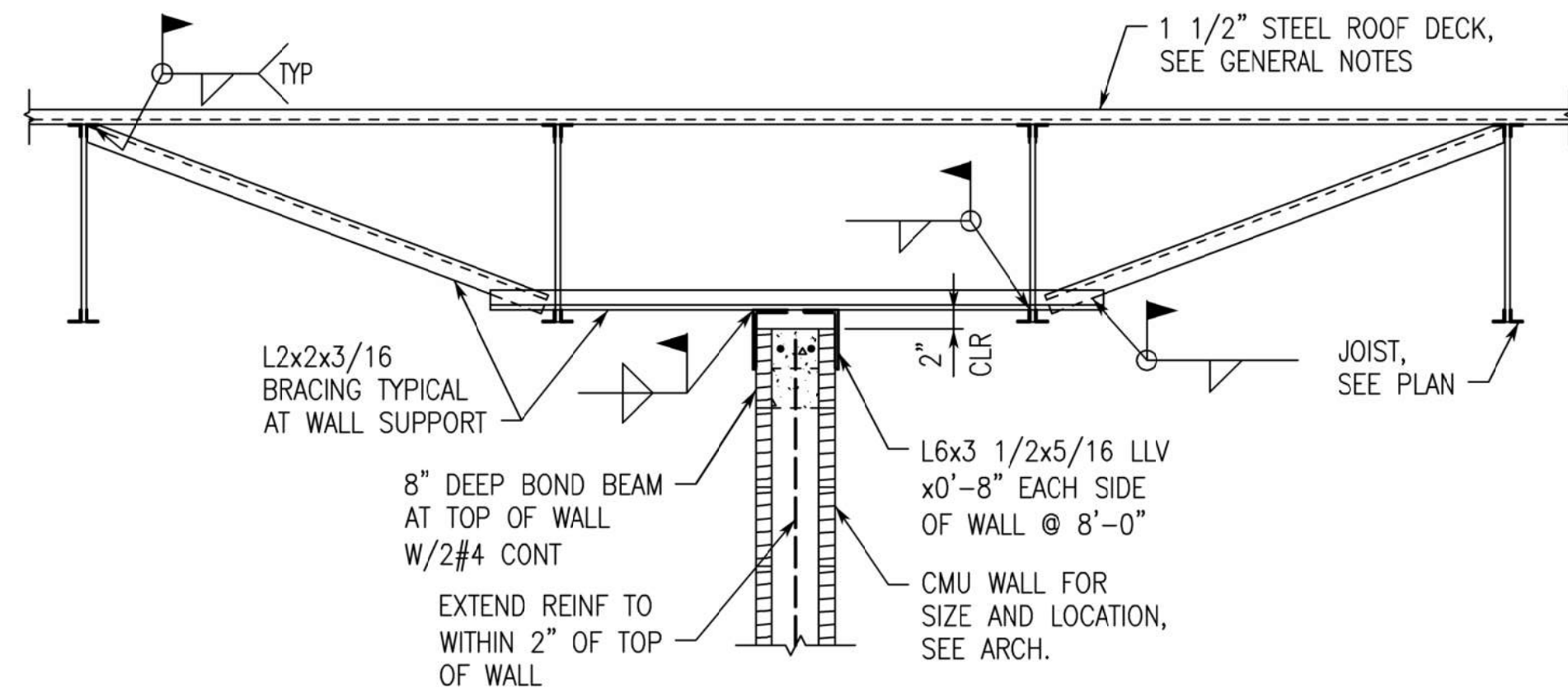


CONTRACTOR NOTE:
IF ROD OR CHANNEL IS REQUIRED
TO BE SPLICED TO FACILITATE
CONSTRUCTION, ROD/CHANNEL
MUST BE SPLICED WITH COMPLETE
JOINT PENETRATION WELD PRIOR
TO WELDING ROD/CHANNEL TO
JOIST. WELD AT SPLICE SHALL
BE APPROVED BY A CERTIFIED
TESTING AGENT.



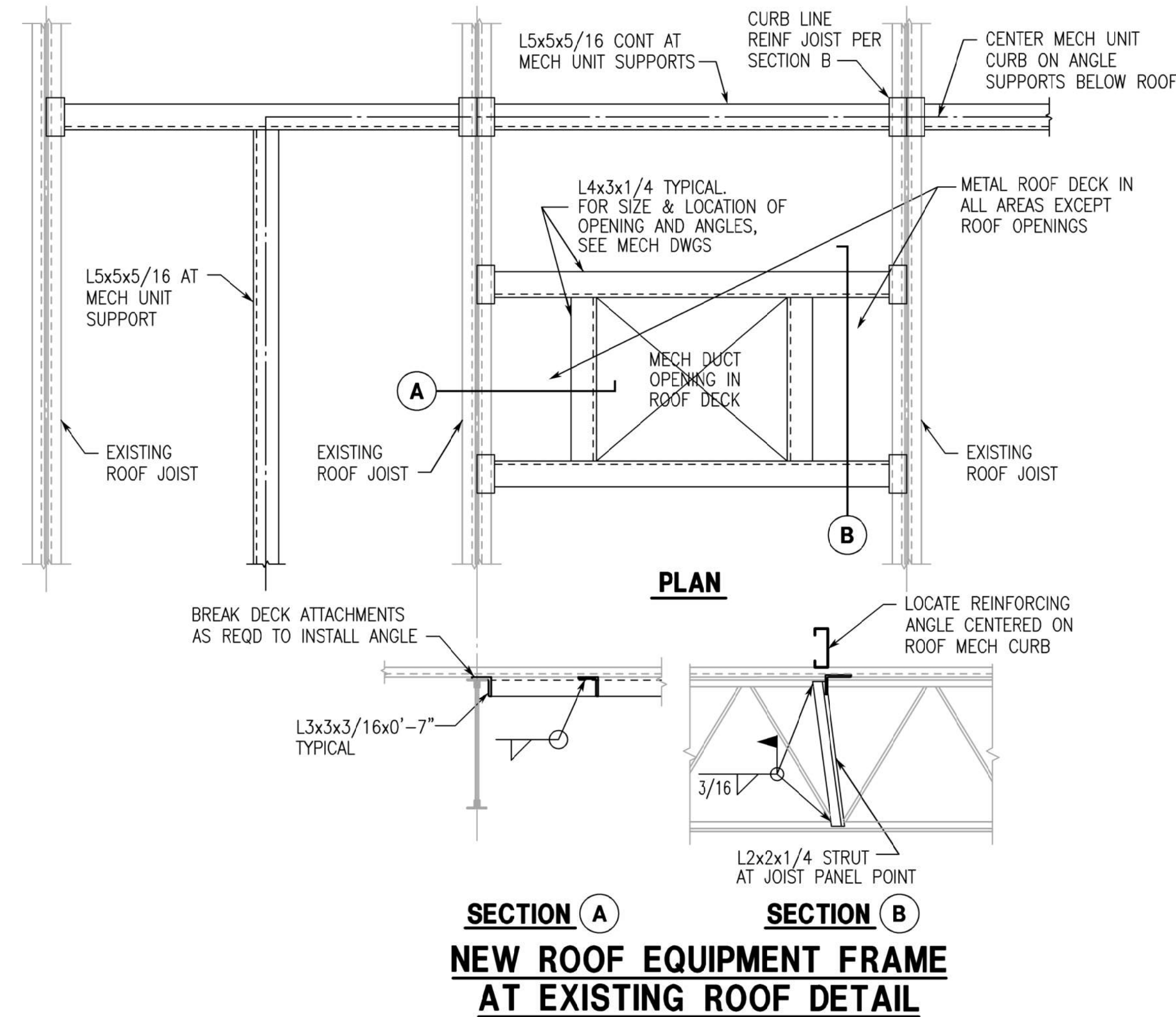
EXISTING JOIST REINFORCING DETAIL

NOTE:
USE DETAIL A FOR JOISTS WITH ANGLE BOTTOM CHORD AND
DETAIL B FOR JOISTS WITH ROUND BOTTOM CHORD.

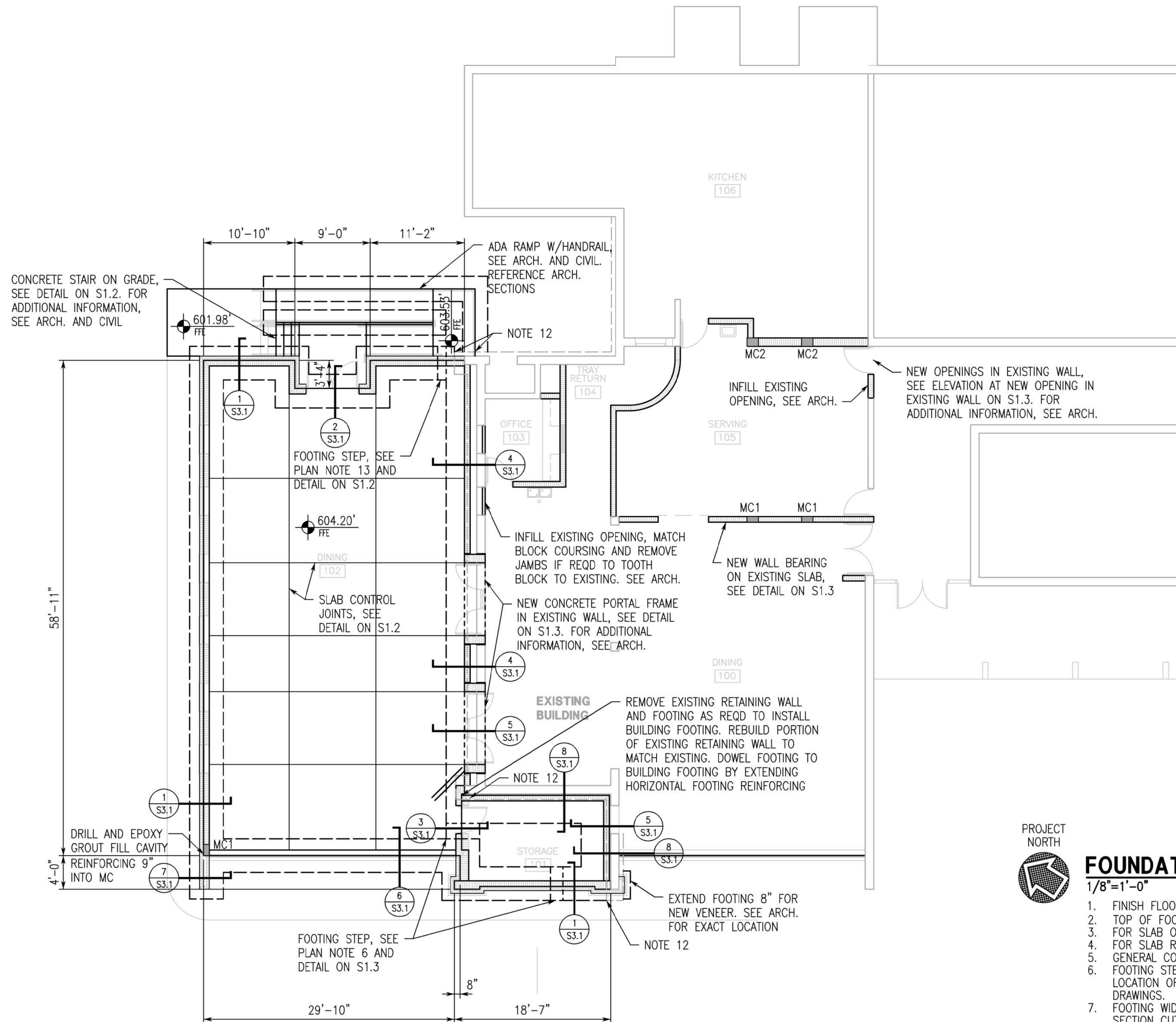


CMU WALL SUPPORT DETAIL (WALL BETWEEN PARALLEL JOISTS)

PROVIDE WALL SUPPORT EACH SIDE OF WALL @ 8'-0". PROVIDE
WALL SUPPORT WHERE CONTINUOUS WALL SPAN BETWEEN
PERPENDICULAR WALL EXCEEDS 20'-0", UNLESS NOTED.



SECTION A SECTION B NEW ROOF EQUIPMENT FRAME AT EXISTING ROOF DETAIL



PROJECT
NORTH



FOUNDATION PLAN

1/8"=1'-0"

1. FINISH FLOOR (TOP OF SLAB) ELEVATION 604.20', UNLESS NOTED.
2. TOP OF FOOTING ELEVATION 600.20', UNLESS NOTED.
3. FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS.
4. FOR SLAB RECESS AND RAMP LOCATIONS, SEE ARCHITECTURAL DRAWINGS.
5. GENERAL CONTRACTOR SHALL COORDINATE TILE JOINT LOCATIONS WITH CONTROL JOINTS.
6. FOOTING STEP LOCATIONS SHOWN ARE APPROXIMATE. GENERAL CONTRACTOR COORDINATE LOCATION OF ALL FOOTING STEPS WITH THE LATEST CIVIL, PLUMBING AND UTILITY DRAWINGS. SEE FOOTING STEP DETAIL ON S1.2.
7. FOOTING WIDTHS INDICATED ON PLAN MAY OR MAY NOT BE TO SCALE. COORDINATE WITH SECTION CUTS FOR FOOTING WIDTHS AND ADDITIONAL INFORMATION.
8. "MC" INDICATES MASONRY COLUMN, SEE SHEET S1.3 FOR ADDITIONAL INFORMATION.
9. FOR PAVEMENT AND HARDSCAPE INFORMATION, SEE ARCHITECTURAL DRAWINGS AND CIVIL DRAWINGS.
10. FOR LOAD BEARING AND NON-LOAD BEARING CMU WALL PLAN DIMENSIONS AS WELL AS OTHER PLAN DIMENSIONS, SEE ARCHITECTURAL DRAWINGS.
11. INFILL EXISTING OPENINGS AS REQUIRED. GROUT JAMBS SOLID. FOR ADDITIONAL INFORMATION, SEE ARCHITECTURAL DRAWINGS.
12. GENERAL CONTRACTOR COORDINATE FOOTING ELEVATIONS AND STEP NEW FOOTINGS AS REQUIRED TO MATCH EXISTING FOOTING ELEVATIONS. DOWEL CONTINUOUS REINFORCING 9" INTO EXISTING FOOTING AND ANCHOR WITH EPOXY ADHESIVE.

SHEET TITLE:
FOUNDATION PLAN

PROJ. MGR.:	HCW
DRAWN:	ABS
DATE:	JULY 8, 2022

REVISIONS

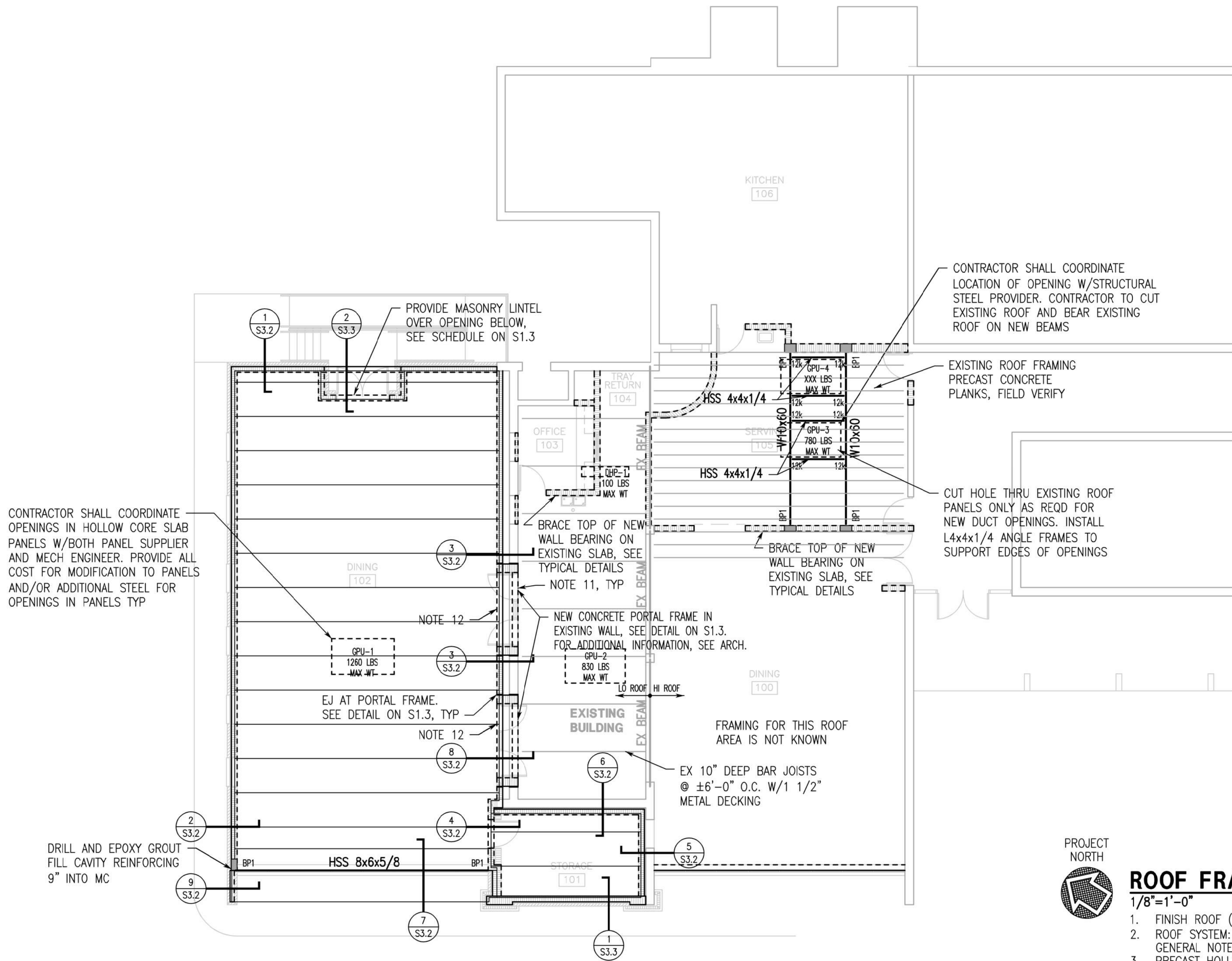
JOB NO. 22-10

SHEET NO.

S2.1

7 OF 11

0 1" 2"



EXISTING ROOF PLAN NOTES

1/8"=1'-0"

1. REINFORCE ROOF JOISTS SUPPORTING MECHANICAL UNITS ON THE ROOF WHERE NO UNIT IS CURRENTLY LOCATED. ADD EQUIPMENT FRAME TO SUPPORT NEW UNIT CURBS. SEE DETAILS ON S1.5 OF STRUCTURAL DRAWINGS.
2. EXISTING CMU WALL AND ROOF FRAMING IS TO BE SHORED AS REQUIRED TO INSTALL NEW OPENINGS. GC IS TO SUBMIT FOR REVIEW SHORING ENGINEERING CALCULATIONS AND SHOP DRAWINGS (SEALED AND SIGNED). CALCULATIONS AND SHOP DRAWINGS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
3. BUILDING CONSTRUCTION IS EXISTING. CONTRACTOR TO FIELD VERIFY ALL FRAMING IN THIS AREA OF WORK AND PROVIDE DESIGN TEAM LAYOUT, INCLUDING SIZES AND LOCATIONS OF EXISTING FRAMING FOR REVIEW.

PROJECT
NORTH



ROOF FRAMING PLAN

1/8"=1'-0"

1. FINISH ROOF (TOP OF SLAB) ELEVATION 10'-11" ABOVE MAIN FINISHED FLOOR, UNLESS NOTED.
2. ROOF SYSTEM: 8" THICK PRECAST HOLLOW CORE SLABS WITH 3" STRUCTURAL TOPPING SLAB, SEE GENERAL NOTES.
3. PRECAST HOLLOW CORE SLAB LAYOUT SHOWN IS FOR SCHEMATIC PURPOSES ONLY. PRECAST MANUFACTURER TO VERIFY ACTUAL LAYOUT. HOLLOW CORE MANUFACTURER DESIGN SLABS FOR DEAD LOADS, LIVE LOADS AND WIND LOADS (DOWNWARD AND UPLIFT) AS INDICATED IN GENERAL NOTES AND TYPICAL DETAILS, IN ADDITION TO SELF-WEIGHT DEAD LOAD AND 20 PSF COLLATERAL DEAD LOAD.
4. CUT OR BREAK CORES OF HOLLOW CORE SLABS ONLY AS REQUIRED TO PLACE REINFORCING.
5. THE GENERAL CONTRACTOR SHALL COORDINATE AND VERIFY THE SIZE, WEIGHT AND LOCATION OF ALL CONCENTRATED AND MECHANICAL LOADS WITH THE PRECAST MANUFACTURER.
6. COORDINATE MECHANICAL OPENINGS WITH MECHANICAL DRAWINGS AND UNIT MANUFACTURER. PRECAST SUPPLIER TO SHOW OPENINGS ON SHOP DRAWINGS AND PROVIDE ANY SUPPORT FOR OPENINGS. CONTRACTOR TO PROVIDE PENETRATION PROTECTION AT ANY STORM SHELTER WALL/ROOF PENETRATION.
7. PROVIDE MASONRY AND VENEER LINTELS AT ALL OPENINGS, SEE SCHEDULES ON S1.3.
8. WHERE MECHANICAL DUCTS EXTEND THRU LOAD BEARING WALLS BELOW HOLLOW CORE SLABS, PROVIDE STEEL HEADER/LINTEL PER DETAIL ON S1.4.
9. CONTRACTOR NOTE: ALL MECHANICAL OPENING SIZES AND LOCATIONS IN LOAD BEARING MASONRY WALLS SHOULD BE COORDINATED BY THE CONTRACTOR AND INDICATED ON THE MASONRY WALL REBAR SHOP DRAWINGS.
10. CONTRACTOR SHALL COORDINATE EMBEDS INTO MASONRY WITH LOUVER OR DOOR MANUFACTURER. PROVIDE MODIFICATIONS TO STRUCTURE AS REQUIRED TO FULLY COMPLY WITH MANUFACTURERS INSTALLATION DETAILS. SUBMIT ANY MODIFICATIONS TO DESIGN TEAM FOR REVIEW.
11. EXISTING CMU WALL AND ROOF FRAMING IS TO BE SHORED AS REQUIRED TO INSTALL NEW OPENINGS. GC IS TO SUBMIT FOR REVIEW SHORING ENGINEERING CALCULATIONS AND SHOP DRAWINGS (SEALED AND SIGNED). CALCULATIONS AND SHOP DRAWINGS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
12. NEW MASONRY LINTEL OVER PORTAL FRAME SHALL BE 24" DEEP BOND BEAM WITH 2#5 EACH COURSE. SEE SCHEDULE ON S1.3 FOR ADDITIONAL INFORMATION.

SHEET TITLE:
ROOF FRAMING
PLAN

PROJ. MGR.:	HCW
DRAWN:	ABS
DATE:	JULY 8, 2022

REVISIONS

JOB NO. 22-10

SHEET NO:

S2.2

8 OF 11

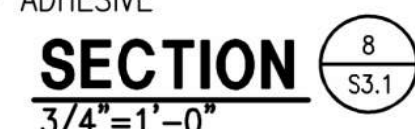
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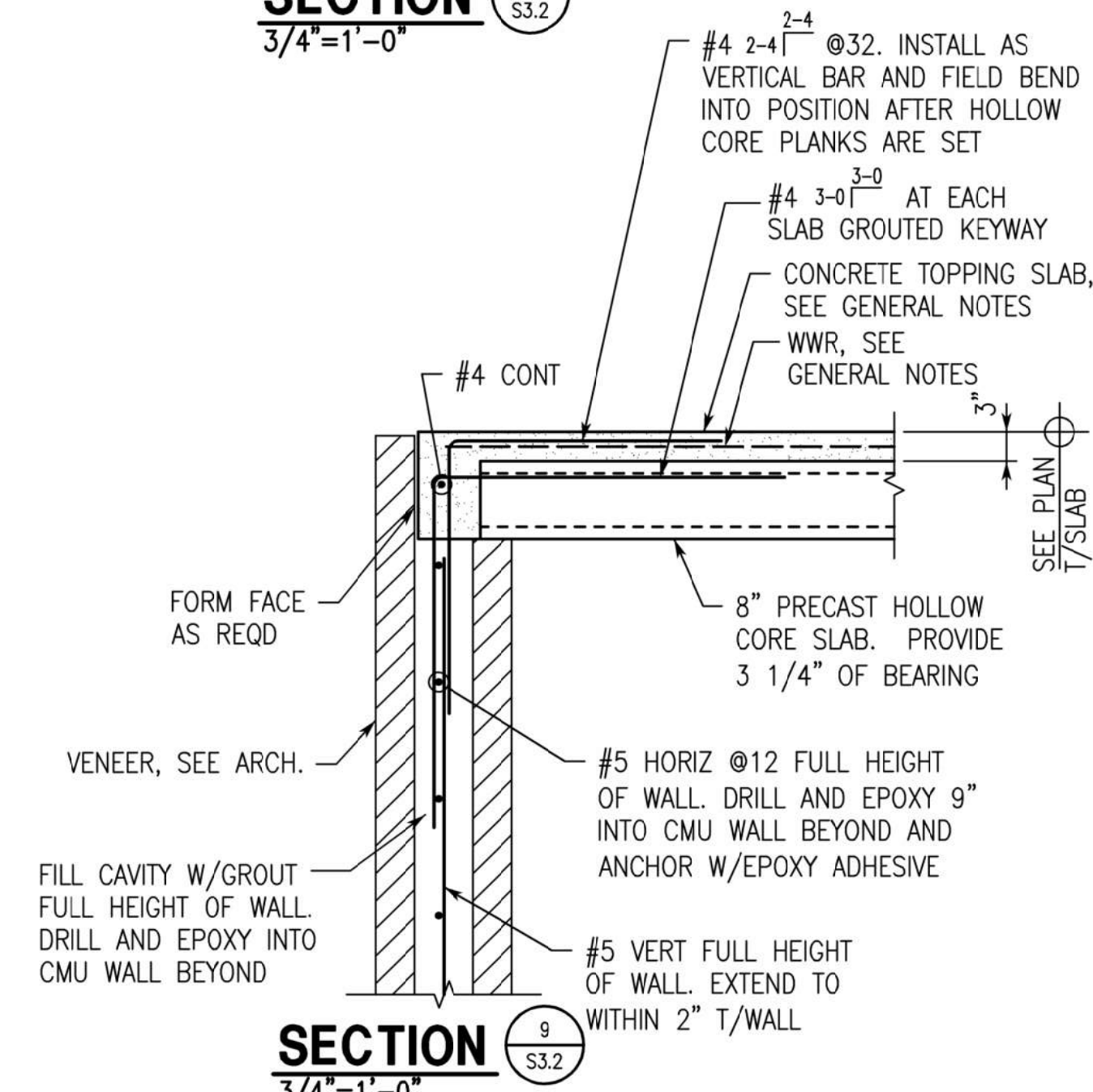
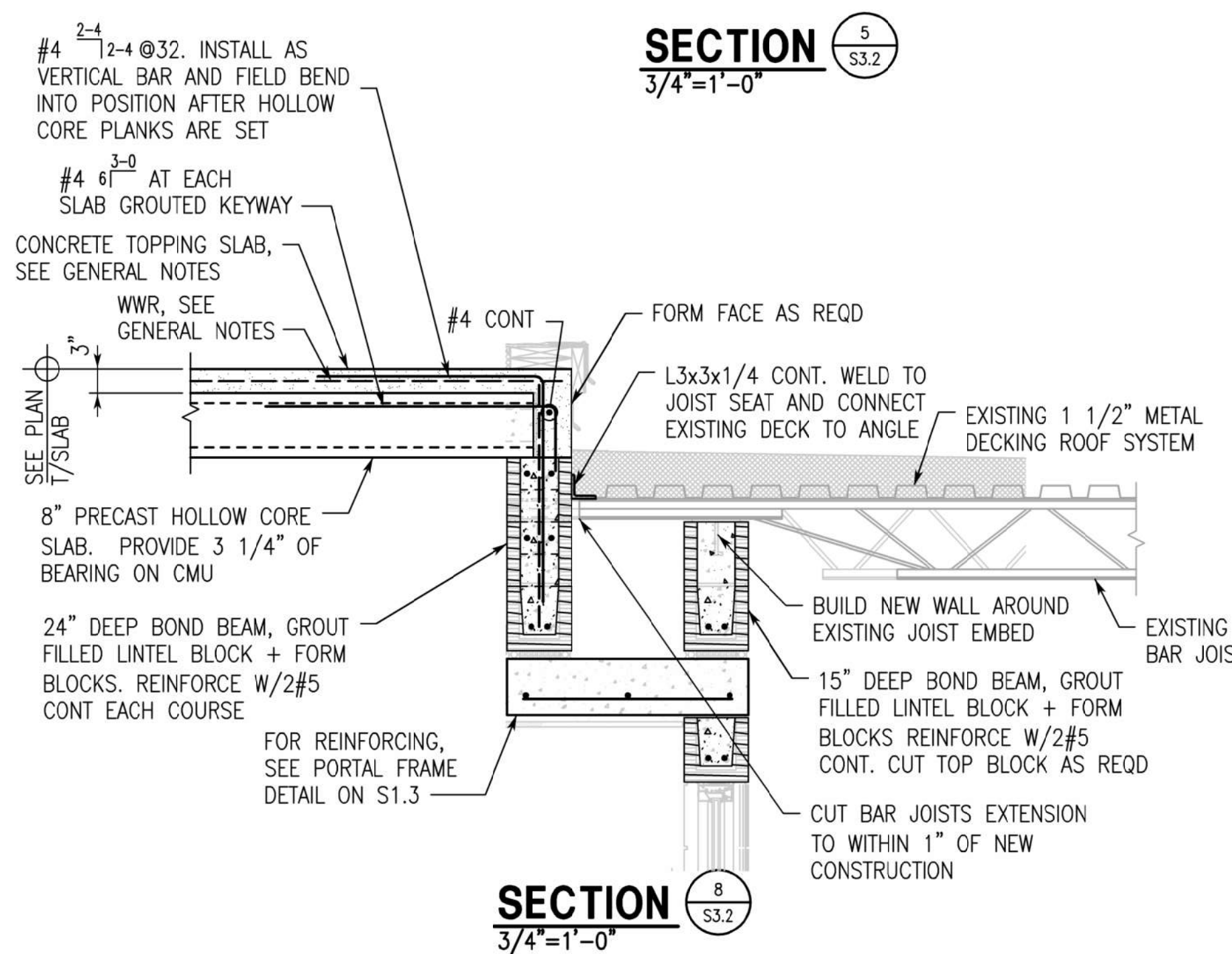
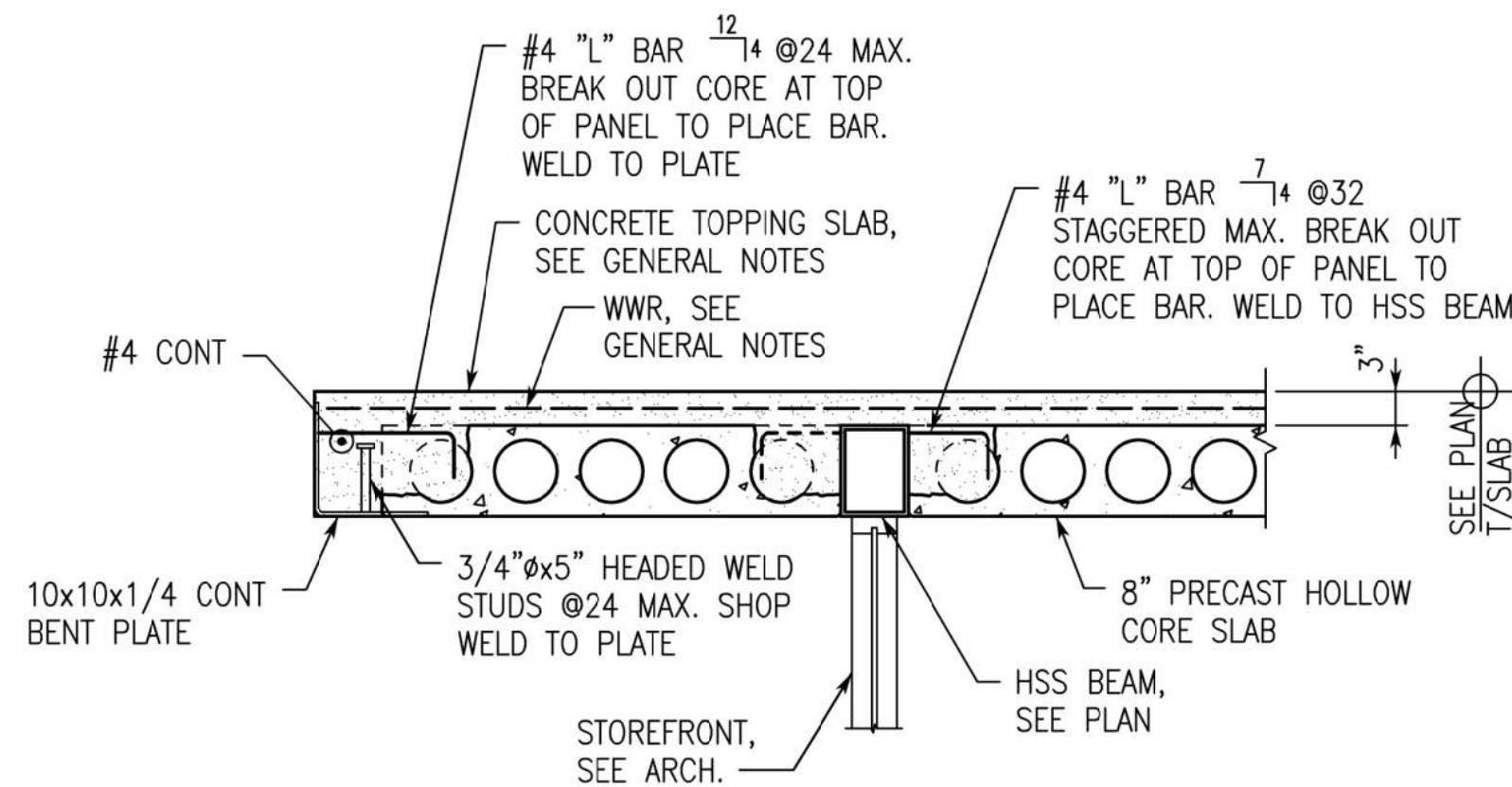
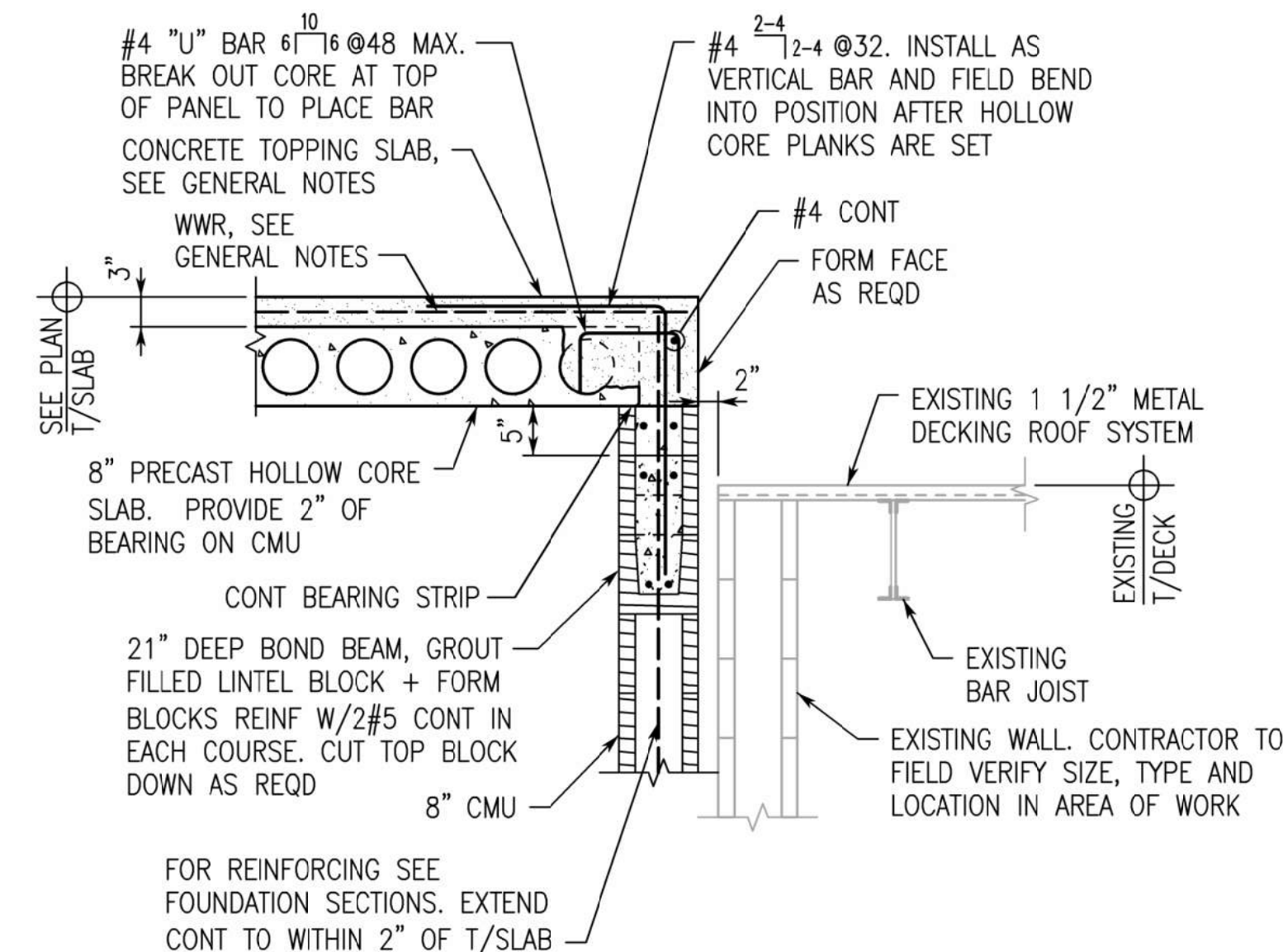
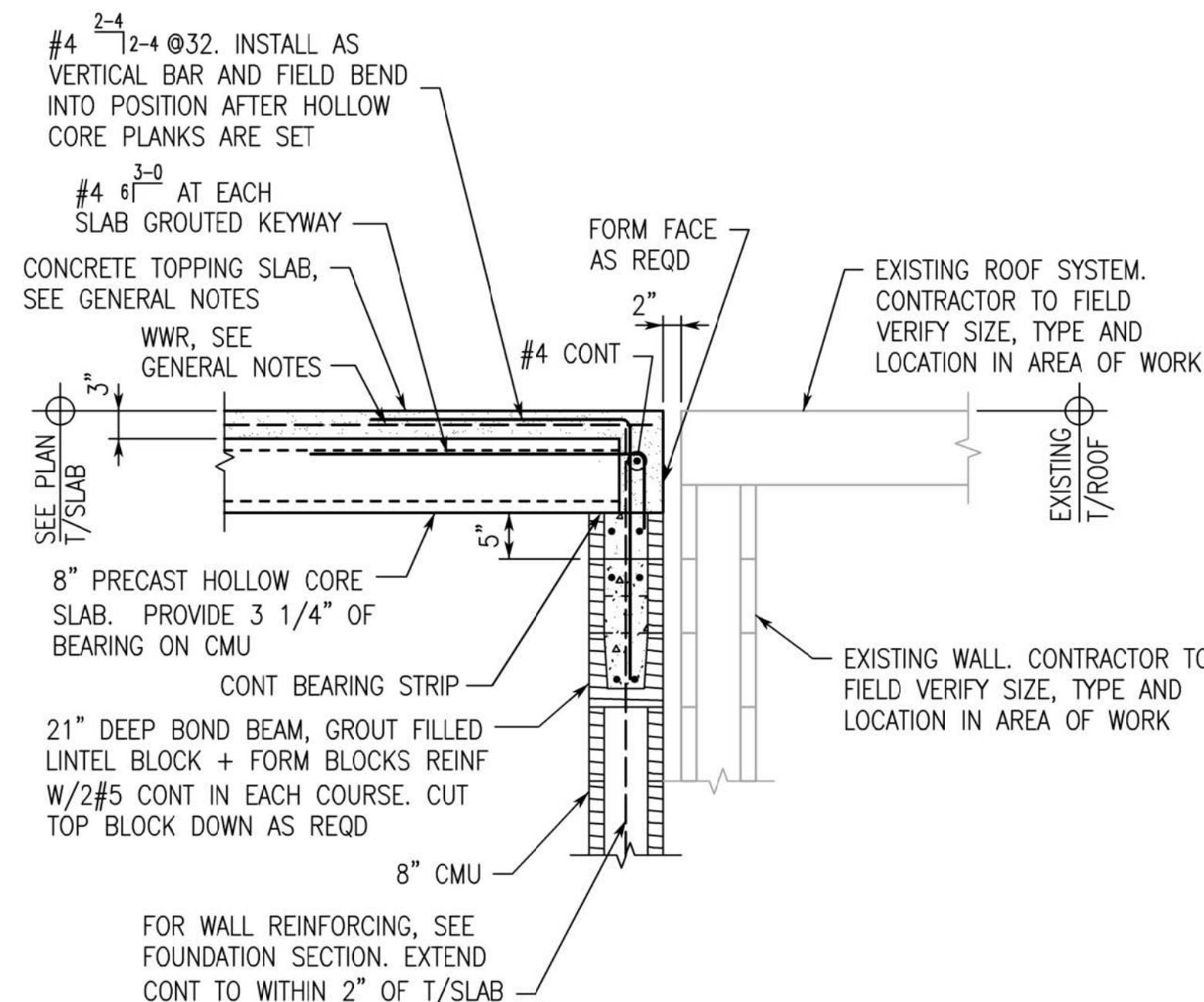
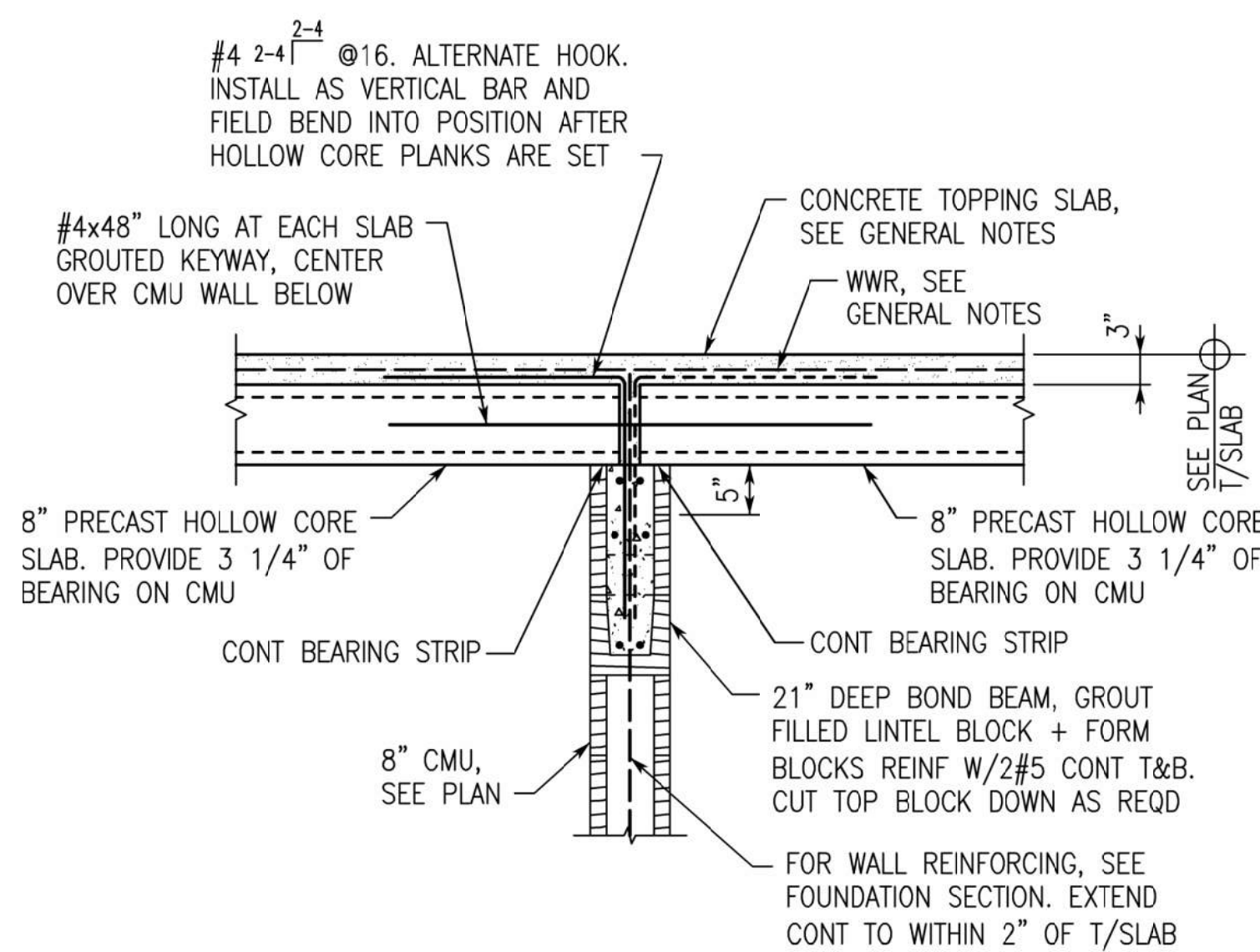
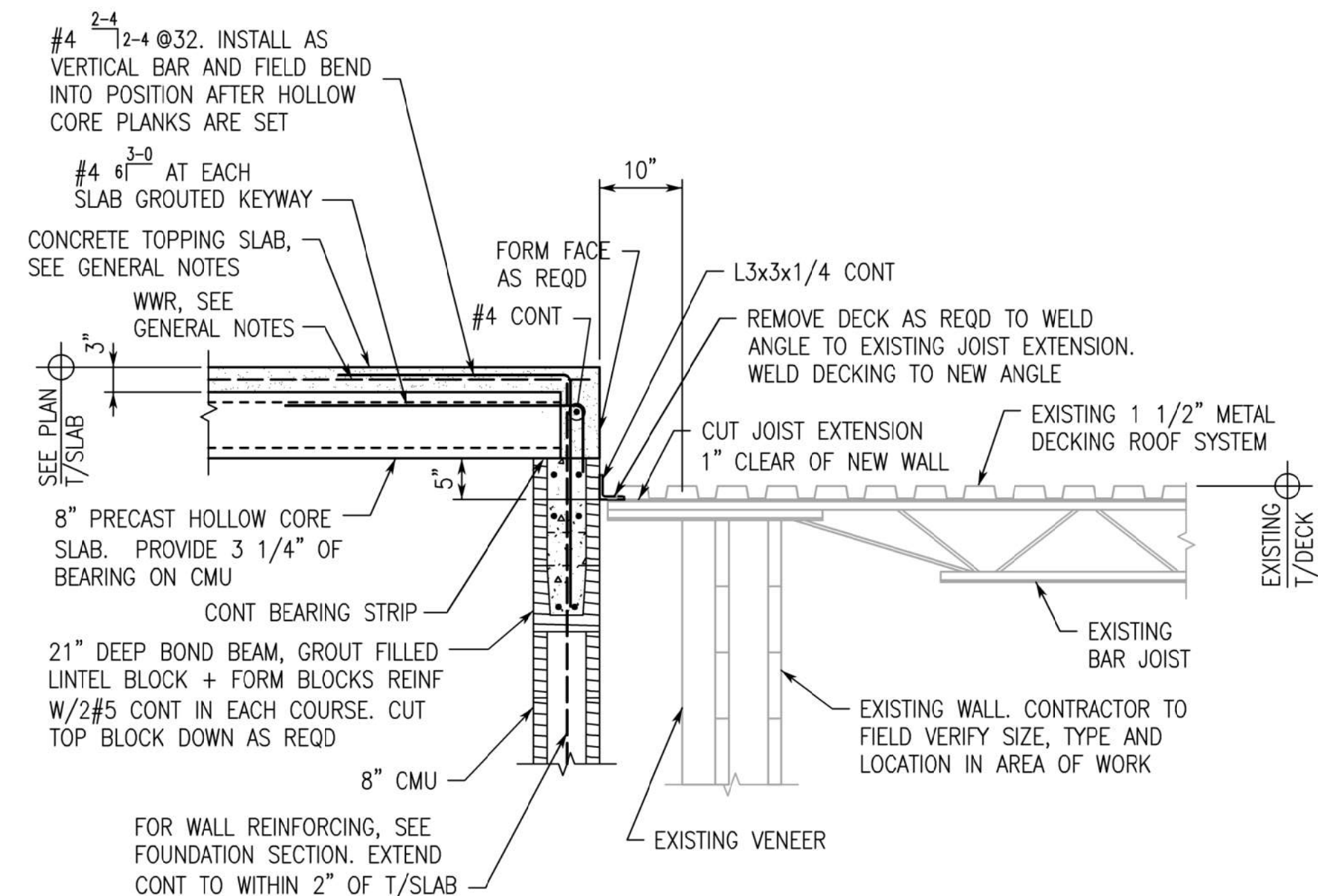
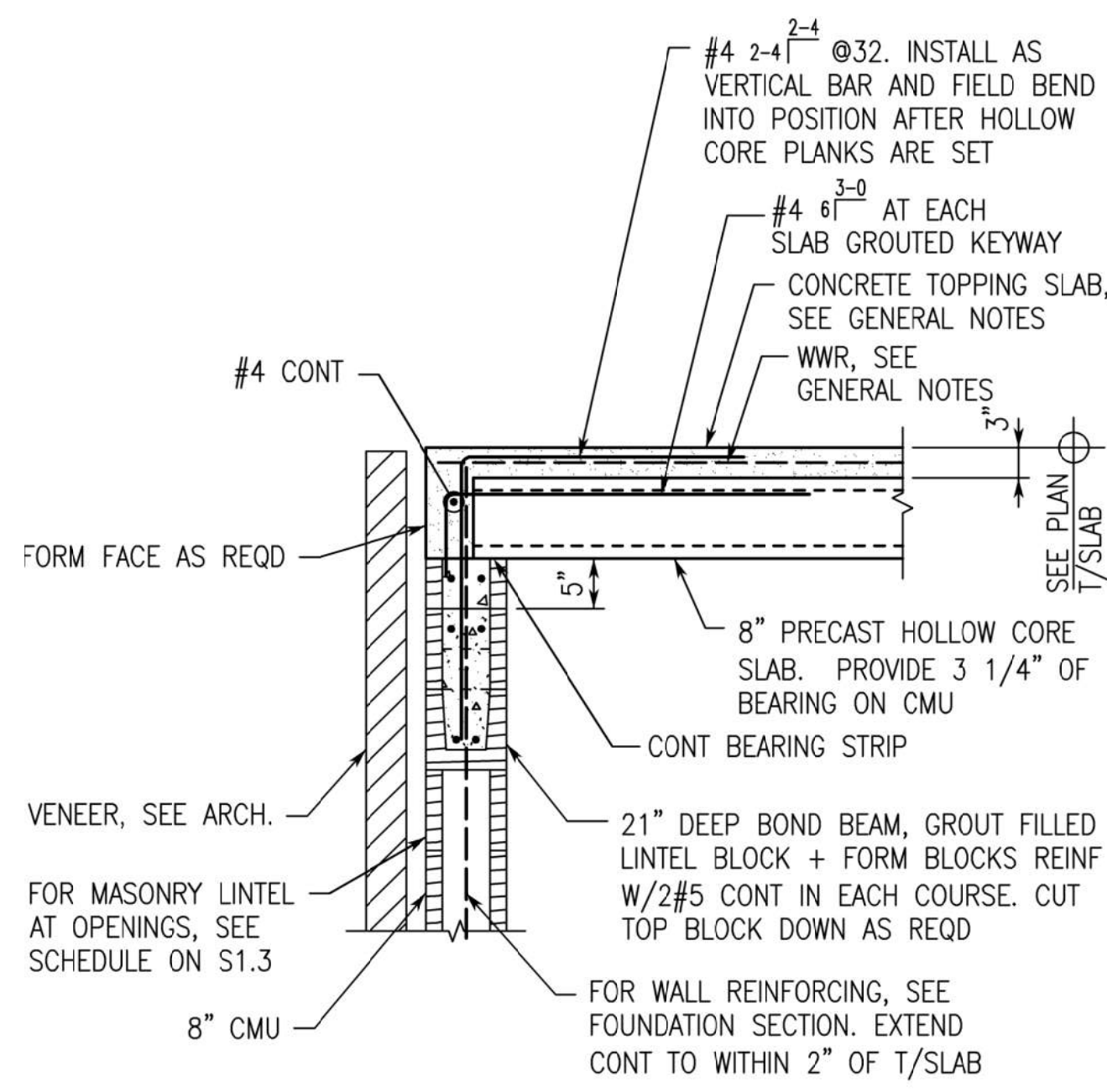
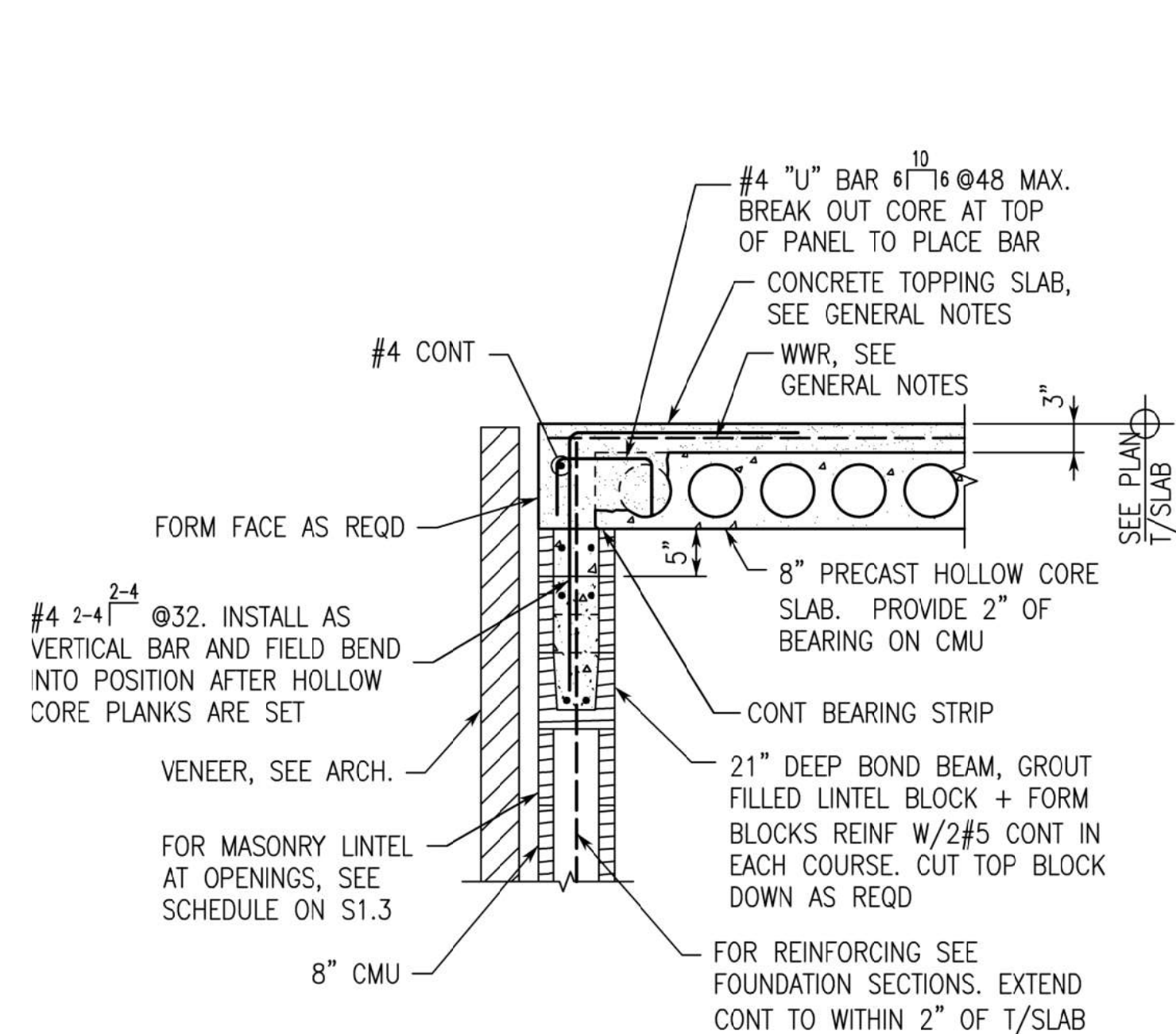


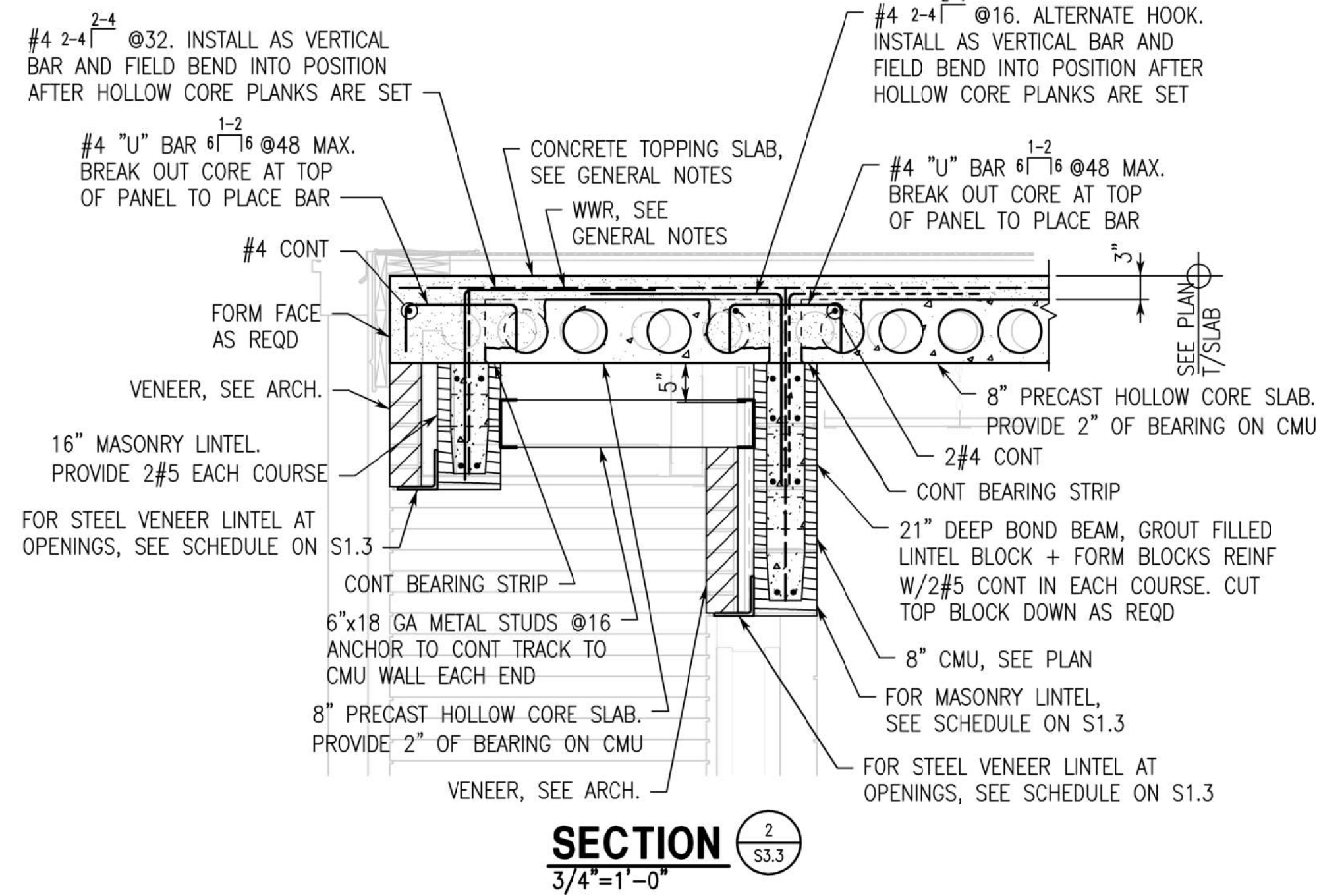
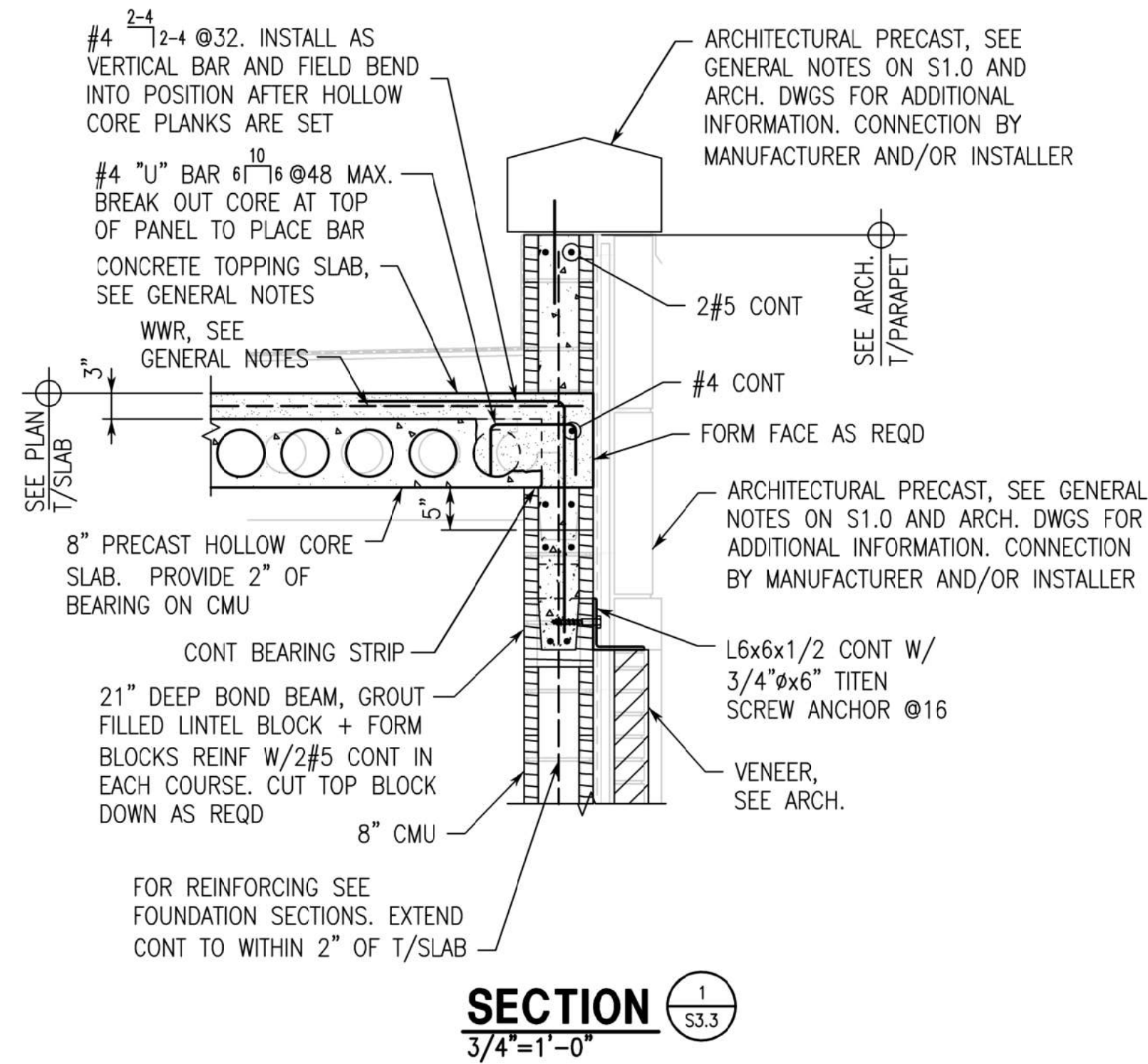
JOB NO. 22-10

S3.1

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ADDITION AND RENOVATIONS TO CAFETERIA AT
SALTER ELEMENTARY SCHOOL
106 BRECON ACCESS ROAD, TALLADEGA, AL 35160
TALLADEGA CITY BOARD OF EDUCATION



SHEET TITLE:
SECTIONS
AND DETAILS

PROJ. MGR.: HCW
DRAWN: ABS
DATE: JULY 8, 2022

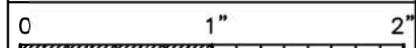
REVISIONS	

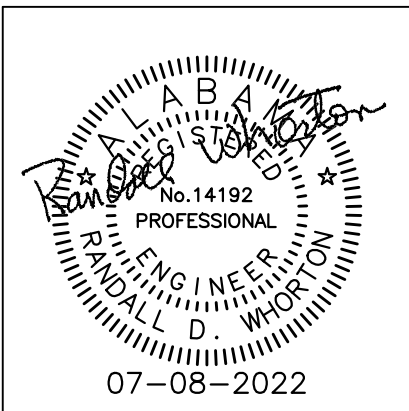
JOB NO. 22-10

SHEET NO:

S3.3

11 OF 11





SHEET TITLE:
HVAC LEGEND,
NOTES, AND
COMPLIANCE
CALCULATIONS

PROJ. MGR.: RDW
DRAWN: JH
DATE: JULY 8, 2022
REVISIONS

JOB NO. 22-10
SHEET NO:
M1.1
1 OF 7
0 1" 2"

SALTER ELEMENTARY SCHOOL - TALLADEGA, ALABAMA 2015 IMC TABLE 403.3 COMPLIANCE CALCULATIONS

ROOM NAME	AREA (SF)	PEOPLE (QTY)	OUTDOOR AIR CALCULATIONS			EZ	VOZ CFM	VPZ CFM	ZP VOZ/VPZ	EV	VOT	DESIGN CFM	EXHAUST AIR					UNIT
			PEOPLE (CFM/PERSON)	AREA (CFM/SF)	TOTAL (VOU)								CFM/SF	FIXTURES	UNIT	REQUIRED CFM	DESIGN CFM	
OFFICE	110	1	5.0	0.06	12	0.8	15					20						DHP-1
DINING	1,852	108	SEE DINING (GPU-1) BIOCLIMATIC SHEET										750					GPU-1
DINING	1,950	108	SEE DINING (GPU-2/GF-1) BIOCLIMATIC SHEET										1,000					GPU-2/GF-1
SERVING	615	12	SEE SERVING (GPU-3) BIOCLIMATIC SHEET										300					GPU-3

HVAC NOTES

- ALL DIMENSIONS SHOWN ARE NET INTERNAL.
- INSTALL OPPOSED BLADE BALANCING DAMPERS IN ALL NEW DIFFUSERS AND GRILLES.
- THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE HVAC SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL REQUIREMENTS OF THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE HVAC SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE CONTRACT. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
- COORDINATE DUCTWORK AND PIPING WITH STRUCTURAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS AS REQUIRED TO CLEAR STRUCTURAL MEMBERS, ETC. COORDINATE WITH OTHER TRADES WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
- REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES, COORDINATE EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS WITH ARCHITECTURAL AND INTERIOR REFLECTED CEILING PLANS AND LIGHTING FIXTURES. FOR PARTICULAR ITEMS NOT SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN, PREPARE A DRAWING AND PRESENT IT TO THE ARCHITECT FOR REVIEW AND/OR APPROVAL.
- COORDINATE ALL ROOF AND SLAB PENETRATIONS WITH THE STRUCTURAL ENGINEER. TRANSITIONS RECTANGULAR DUCTWORK ON THE BOTTOM AND THE SIDES. MAINTAIN DUCTWORK LEVEL AS HIGH AS POSSIBLE UNLESS NOTED OTHERWISE.
- THE HVAC CONTRACTOR IS TO REVIEW THE ENTIRE SET OF PLANS FOR COORDINATION WITH OTHER TRADES. SHOP DRAWINGS WITH ALL TRADES COORDINATED WILL BE REQUIRED.
- THE HVAC CONTRACTOR SHALL REVIEW THE ARCHITECTURAL PLANS FOR FINAL LOCATIONS OF ALL RATED WALLS, CEILINGS, FLOORS, ETC. THE HVAC CONTRACTOR SHALL FURNISH AND INSTALL FIRE OR FIRE/SMOKE DAMPERS IN ALL RATED LOCATIONS WHETHER SHOWN ON THE MECHANICAL PLANS OR NOT.
- CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
- ALL THREE PHASE EQUIPMENT SHALL BE EQUIPPED WITH PHASE LOSS PROTECTION.
- CONTRACTOR TO COORDINATE ALL CEILING TYPES WITH DIFFUSERS. ALL DIFFUSERS IN GYPSUM CEILING SHALL INCLUDE PLASTER FRAME.
- ALL DISTRIBUTION DEVICES SHALL HAVE FACE OPERABLE DAMPERS. ALL DIFFUSER RUNOUTS SHALL INCLUDE SPIN-IN WITH DAMPER IN ROUND DUCTS.
- INSULATE TOP SIDE/BACK OF ALL DIFFUSERS/GRILLES, ETC.
- CONDENSATE DRAIN LINES RUNNING HORIZONTALLY SHALL BE SLOPED 1/4" PER FOOT DOWN IN THE DIRECTION OF FLOW AS INDICATED.
- ALL 3/4" AND 1" CONDENSATE DRAIN TRAPS SHALL BE EZ-TRAP OR APPROVED EQUAL WITH FLOAT SWITCH.
- INSTALL AUXILIARY DRAIN PAN UNDER ALL UNITS MOUNTED IN ATTIC, ABOVE CEILINGS, ETC. INSTALL FLOAT SWITCH FOR UNIT SHUT DOWN IN AUXILIARY DRAIN PAN.
- REFERENCE PLUMBING PLANS FOR CONDENSATE PIPING. IF CONDENSATE DRAINS ARE NOT SHOWN ON THE PLUMBING PLANS, ALL CONDENSATE DRAINS SHALL BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR.
- ALL THERMOSTATS TO BE AUTOMATIC CHANGE OVER TYPE AND SHALL INCLUDE LOCKING THERMOSTAT COVERS.
- ALL THERMOSTATS TO BE MOUNTED 4'-0" A.F.F. TO HIGHEST OPERABLE CONTROL UNLESS OTHERWISE INDICATED.
- ALL REFRIGERANT LINES SHALL BE SIZED/APPROVED BY THE EQUIPMENT VENDOR/COMPRESSOR MANUFACTURER.
- PAINT ALL EXTERIOR EXPOSED ARMAFLEX INSULATION FOR UV PROTECTION.
- PORTIONS OF DUCTWORK VISIBLE THROUGH GRILLES, REGISTERS, AND DIFFUSERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
- FLEXIBLE DUCT (SUPPLY RUNOUTS ONLY) SHALL NOT EXCEED 6'-0" IN LENGTH.
- DUCTWORK SHALL BE INSULATED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:
RECTANGULAR SUPPLY: 1" INTERNAL
ROUND SUPPLY: 1-1/2" EXTERNAL
FLEXIBLE SUPPLY: 1" PRE INSULATED
RECTANGULAR RETURN: 1" INTERNAL
OSA/EXHAUST: 1-1/2" EXTERNAL
- DUCTWORK SHALL BE GALVANIZED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS.
- LABEL ALL DUCTS WITH TYPE (SUPPLY, RETURN, ETC.) AND ARROWS INDICATING DIRECTION OF AIR FLOW. LABELS SHALL BE EVERY SIX FEET AND AT EACH CHANGE OF DIRECTION (T'S, ELBOWS, ETC.)
- ROUND DUCT SHALL BE INSULATED WITH DUCT WRAP EQUAL TO CERTAINTEED SOFT TOUCH DUCT WRAP WITH FSK VAPOR RETARDER FACING TYPE 75 WITH MINIMUM INSTALLED R-VALUE 4.2. ROUND DUCTS LOCATED WITHIN THE ATTIC SHALL BE INSULATED WITH DUCT WRAP EQUAL TO CERTAINTEED SOFT TOUCH DUCT WRAP WITH FSK VAPOR RETARDER FACING TYPE 100 WITH MINIMUM INSTALLED R-VALUE 6.0
- ALL EXPOSED DUCT SHALL BE INSULATED INTERNALLY WITH 1" DUCT LINER EQUAL TO CERTAINTEED TG2 DUCT LINER WITH MINIMUM INSTALLED R-VALUE 4.0.
- ALL EXPOSED DUCT SHALL BE PAINTED. DUCT SHALL BE "PAINT GRIP", COORDINATE PAINT COLOR WITH ARCHITECT.
- DUCT LINER FOR RECTANGULAR DUCTS SHALL BE EQUAL TO CERTAINTEED TG2 DUCT LINER WITH A MINIMUM R-VALUE OF 4.0. RECTANGULAR DUCTS LOCATED WITHIN THE ATTIC SHALL BE LINED WITH DUCT LINER EQUAL TO CERTAINTEED TG2 DUCT LINER WITH A MINIMUM R-VALUE OF 4.0 AND WRAPPED EXTERNALLY WITH DUCT WRAP EQUAL TO CERTAINTEED SOFT TOUCH DUCT WRAP WITH FSK VAPOR RETARDER FACING TYPE 75 WITH A MINIMUM INSTALLED R-VALUE OF 4.2.
- WARRANTIES SHALL BEGIN AT DATE OF SUBSTANTIAL COMPLETION. ALL COMPRESSORS SHALL INCLUDE MIN. OF FIVE YEAR WARRANTY. ONE YEAR WARRANTY FOR LABOR, PARTS, UNITS, ETC. IS REQUIRED FOR ALL EQUIPMENT.
- CONTRACTOR SHALL ANCHOR OUTDOOR UNITS TO CONCRETE PAD IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION, WIND LOAD REQUIREMENTS, AND AS PER PLANS/SPECIFICATIONS. COORDINATE CONCRETE PAD SIZE, UNIT CLEARANCES, ETC. WITH STRUCTURAL AND ARCHITECTURAL PLANS, FRAMING, ETC.
- THE CONTRACTOR SHALL INSTALL ANY CURB-MOUNTED EQUIPMENT IN SUCH A WAY THAT NO WATER LEAKAGE IS INTRODUCED INTO THE BUILDING.
- ALL CONDENSING UNITS ON ROOF SHALL BE MOUNTED ON CUSTOM CURB OR APPROVED EQUAL EQUIPMENT RAILS. EQUIPMENT RAILS SHALL EXTEND TO THE STRUCTURAL STEEL BUILDING SUPPORT AND 12" ABOVE FINISHED ROOFING.
- ALL INDOOR AND OUTDOOR UNITS SHALL BE LOCATED SO THAT MAINTENANCE CLEARANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND AS PER PLANS/SPECIFICATIONS ARE MAINTAINED. COORDINATE MAINTENANCE CLEARANCES WITH STRUCTURAL AND ARCHITECTURAL PLANS, FRAMING, ETC.
- CARBON MONOXIDE DETECTORS SHALL BE MACURCO MODEL CM-6 (OR APPROVED EQUAL).

HVAC LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CEILING DIFFUSER - SUPPLY RECTANGULAR WITH ROUND NECK 4-WAY THROW UNLESS OTHERWISE INDICATED		LOW LEAKAGE MOTORIZED VOLUME DAMPER		STANDARD 90° RADIUS ELBOW
	CEILING DIFFUSER - RETURN RECTANGULAR WITH SQUARE NECK		HORIZONTAL MOUNTED FIRE DAMPER		STANDARD 45° RADIUS ELBOW
	SIDEWALL DIFFUSER - SUPPLY WITH MULTI-VANE DEFLECTOR		VERTICAL MOUNTED FIRE DAMPER		90° VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)
	SIDEWALL DIFFUSER - RETURN WITH 30° FIXED DEFLECTION		THERMOSTAT/HUMIDISTAT LOCATION		45° VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)
XX-X XXX CFM	DIFFUSER TAG REFERENCE SCHEDULE FOR SIZING		CARBON MONOXIDE SENSOR LOCATION		STANDARD DUCT SIZE TRANSITION
	NEW RECTANGULAR DUCT WIDTH X DEPTH		HVAC CONDENSATE DRAIN PIPING		STANDARD SQUARE TO ROUND TRANSITION
	NEW ROUND DUCT DIAMETER		HVAC REFRIGERANT LINE		
	MANUAL VOLUME DAMPER OPPOSED BLADE		VANED TEE (PROVIDE ALL SQUARE OR RECTANGULAR TEE'S WITH VANES EVEN IF SYMBOL IS MISSING)		

CODES AND STANDARDS

- 2015 INTERNATIONAL PLUMBING CODE
- 2015 INTERNATIONAL MECHANICAL CODE
- 2015 INTERNATIONAL FUEL GAS CODE
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- ASHRAE 90.1-2013 ENERGY STANDARD

HVAC DRAWING INDEX

SHEET NO.	SHEET TITLE
M1.1	HVAC LEGEND, NOTES, AND COMPLIANCE CALCULATIONS
M1.2	HVAC SCHEDULES AND DETAILS
M1.3	HVAC SCHEDULES AND DETAILS
M2.1	HVAC DETAILS
M2.2	HVAC IAQ CALCULATIONS
M3.1	HVAC DEMOLITION PLAN
M4.1	REVISED HVAC PLAN

HVAC LEGEND, NOTES, AND COMPLIANCE CALCULATIONS

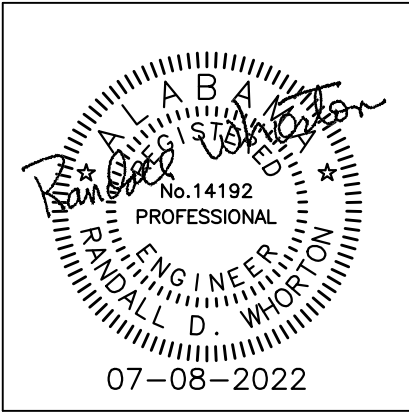
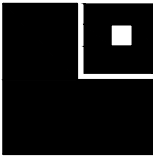
WHORTON ENGINEERING, INC.

HVAC - PLUMBING - PROCESS CONTROL

RANDALL WHORTON, P.E.
PHONE: (256) 820-9897

25 SUMMERALL GATE ROAD
ANNISTON, ALABAMA 36205

WHORTON ENGINEERING PROJECT NO. 22147







SHEET TITLE:
HVAC SCHEDULES
AND DETAILS

PROJ. MGR.: RDW
DRAWN: JH
DATE: JULY 8, 2022
REVISIONS

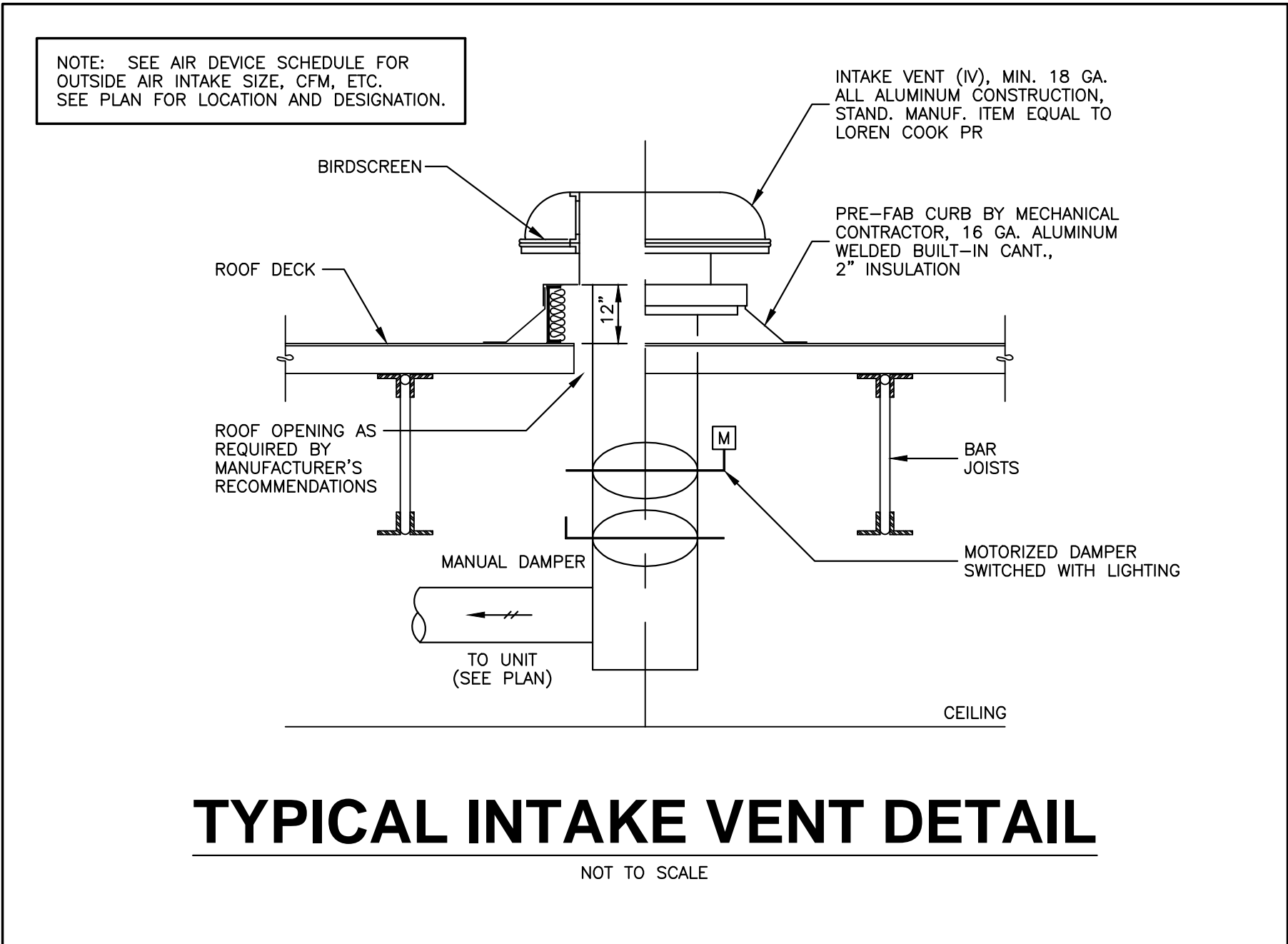
JOB NO. 22-10
SHEET NO:
M1.2
2 OF 7
0 1" 2"

DUCTLESS HEAT PUMP EQUIPMENT SCHEDULE (CEILING CASSETTE)																									
MARK NO.	NOMINAL FAN CFM	OSA CFM	COOLING CAPACITY					HEATING CAPACITY			MANUFACTURER (OR APPROVED EQUAL)	INDOOR UNIT DATA					OUTDOOR UNIT DATA					APPROXIMATE REFRIG. PIPING SIZE		NOTES	
			TOTAL CAP. MBH	SENS. CAP. MBH	COND. E.A.T.	EVAP. E.W.B. TEMP	MIN. SEER	LOW TEMP 17° E.A.T. MBH	HIGH TEMP 47° E.A.T. MBH	MIN. HSPF		VOLTAGE	MODEL NO.	FAN MOTOR FLA	MCA (A)	UNIT WEIGHT (LBS.)	VOLTAGE	MODEL NO.	COMP. R.L.A. (A)	MCA (A)	MOCP (A)	UNIT WEIGHT (LBS.)	GAS (IN. O.D.)		LIQUID (IN. O.D.)
																							3/8		1/4
DHP 1	300	20	9.0	7.8	95	80/67	22.4	6.9	11.0	12.2	mitsubishi	208/230-1-60	SLZ-KF09NA	0.2	0.25	31	208/230-1-60	SUZ-KA09NA2	6.2	9	15	81	3/8	1/4	SEE BELOW
<div><div><div>①</div><div>UNIT TO INCLUDE A WALL MOUNTED 7-DAY PROGRAMMABLE AUTOMATIC CHANGEOVER THERMOSTAT WITH SUB-BASE AND LOCKING COVER. THERMOSTAT SHALL BE FACTORY MA REMOTE CONTROLLER MODEL PAR-40MAAU.</div></div><div><div>②</div><div>INDOOR UNIT TO BE CEILING CASSETTE WITH INTERNAL FACTORY CONDENSATE PUMP.</div></div><div><div>③</div><div>INDOOR UNIT TO RECEIVE POWER FROM OUTDOOR UNITS THROUGH FIELD-SUPPLIED INTERCONNECTED WIRING.</div></div><div><div>④</div><div>CASSETTE UNIT SHALL BE 24"x24" TO MATCH STANDARD LAY-IN CEILING TILE GRID.</div></div><div><div>⑤</div><div>CASSETTE UNIT FRAME SHALL NOT IMPEDE ACCESS TO ADJACENT ITEMS SUCH AS CEILING LIGHTS, ETC.</div></div><div><div>⑥</div><div>UNIT TO INCLUDE UV-C PROTECTION. EQUIPMENT SHALL BE FRESH-AIRE UV (OR APPROVED EQUAL).</div></div><div><div>⑦</div><div>UNIT TO INCLUDE BIOCLIMATIC (OR APPROVED EQUAL) BI-POLAR IONIZATION UNIT MOUNTED INSIDE CEILING CASSETTE PER MANUFACTURER'S RECOMMENDATION. IONIZATION UNIT SHALL BE POWERED FROM ASSOCIATED UNIT.</div></div><div><div>⑧</div><div>ADDITIONAL REFRIGERANT CHARGE IS NEEDED DEPENDING ON THE SIZE AND LENGTH OF EXTENDED PIPING. COORDINATE WITH EQUIPMENT MANUFACTURER.</div></div><div><div>⑨</div><div>CONTRACTOR'S VENDOR SHALL PROVIDE REFRIGERANT LINE FINAL SIZES, LENGTHS, ETC. PER MANUFACTURER'S RECOMMENDATION. SUBMITTAL DRAWINGS SHALL INCLUDE CONTROLS, LINE SIZES, ETC. CONTRACTOR SHALL COORDINATE SIZES SHOWN ON PLANS WITH ACTUAL EQUIPMENT QUOTED PRIOR TO BIDDING.</div></div><div><div>⑩</div><div>FURNISH AND INSTALL FACTORY PRE-INSULATED REFRIGERANT LINE SETS.</div></div><div><div>⑪</div><div>EACH LINE SET SHALL INCLUDE FACTORY BALL VALVES FOR UNIT ISOLATION.</div></div><div><div>⑫</div><div>REFRIGERANT PIPING SHALL BE LABELED TO MATCH ASSOCIATED INDOOR AND OUTDOOR UNIT.</div></div><div><div>⑬</div><div>ALL EXPOSED INTERIOR REFRIGERANT PIPING SHALL BE ROUTED IN SCHEDULE 40 PVC, PRIME AND PAINT TO MATCH ADJACENT SURFACES. VERIFY PAINT COLOR WITH ARCHITECT.</div></div><div><div>⑭</div><div>USE INSULATED REFRIGERANT PIPING CLAMPS WHERE REFRIGERANT PIPING IS INSULATED.</div></div><div><div>⑮</div><div>UNIT TO INCLUDE CONDENSER HAIL GUARD AND LOW AMBIENT CONTROLS TO 0°F.</div></div><div><div>⑯</div><div>REFRIGERANT R-410A.</div></div><div><div>⑰</div><div>VERIFY FINAL REFRIGERANT PIPING SIZE AND LENGTH WITH MANUFACTURER.</div></div><div><div>⑱</div><div>UNIT SHALL BE ASHRAE 90.1-2013 COMPLIANT.</div></div></div>																									
APPROVED EQUALS: FUJITSU, CARRIER TOSHIBA, TRANE, AND BRYANT																									

GAS PACKAGED UNIT EQUIPMENT SCHEDULE														
MARK NO.	NOMINAL FAN CFM	OSA CFM	EXT. STATIC IN. WC	COOLING CAPACITY					HEATING CAPACITY		MODEL NO. DATA		NOTES	
				TOTAL CAPACITY MBH	SENS. CAPACITY MBH	CONDENSER E.A.T.	EVAPORATOR E.W.B. TEMP	MIN. SEER/EER	MIN. IEER	NATURAL GAS INPUT (MBH)	NATURAL GAS OUTPUT (MBH)	MANUFACTURER (OR APPROVED EQUAL)		UNIT MODEL NO.
 GPU 1	3,000	750	0.7"	94.8	73.8	95	80/67	EER 11.2	12.7	150/105	120/84	TRANE	YSC092	SEE BELOW
 GPU 2	2,000	500	0.8"	60.0	49.0	95	80/67	SEER 14.0	N/A	80/56	64.8/45.3	TRANE	YSC060	SEE BELOW
 GPU 3	1,200	300	0.8"	37.0	30.0	95	80/67	SEER 14.0	N/A	80/56	64.8/45.3	TRANE	YSC036	SEE BELOW
 GPU 4	2,000	—	0.8"	60.0	49.0	95	80/67	SEER 14.0	N/A	80/56	64.8/45.3	TRANE	YSC060	SEE BELOW
TOTAL		1,550		251.8										
<div><div>①</div><div>UNIT TO INCLUDE 7-DAY PROGRAMMABLE AUTOMATIC CHANGEOVER THERMOSTAT AND HUMIDISTAT WITH SUB-BASE AND LOCKING COVER.</div></div> <div><div>②</div><div>UNIT TO INCLUDE FACTORY ROOF CURB WITH THRU THE CURB ELECTRICAL CONNECTION. COORDINATE ALL ROOF CURBS WITH THE ROOFING CONTRACTOR.</div></div> <div><div>③</div><div>UNIT TO INCLUDE FACTORY BAROMETRIC RELIEF, HINGED ACCESS DOORS, AND TWO-STAGE NATURAL GAS HEAT.</div></div> <div><div>④</div><div>UNIT TO INCLUDE CONDENSER HAIL GUARD, FILTER RACK, AND FACTORY WIRED CONVENIENCE OUTLET.</div></div> <div><div>⑤</div><div>REFRIGERANT R-410A.</div></div> <div><div>⑥</div><div>UNIT TO INCLUDE FACTORY MODULATING MOTORIZED OUTSIDE AIR DAMPER INTERLOCKED WITH ROOM LIGHTING.</div></div> <div><div>⑦</div><div>COORDINATE UNIT ARRANGEMENT WITH PLANS.</div></div> <div><div>⑧</div><div>UNIT TO INCLUDE FACTORY HOT GAS REHEAT FOR DEHUMIDIFICATION CONTROL SIZED FOR FULL UNIT CAPACITY.</div></div> <div><div>⑨</div><div>UNIT TO INCLUDE BIOCLIMATIC (OR APPROVED EQUAL) BI-POLAR IONIZATION UNIT (NEEDLEPOINT) MOUNTED IN UNIT RETURN DUCT PER MANUFACTURER'S RECOMMENDATION. IONIZATION UNIT SHALL BE POWERED FROM ASSOCIATED GAS PACKAGED UNIT.</div></div> <div><div>⑩</div><div>UNIT TO INCLUDE LOW AMBIENT CONTROLS TO 0°F.</div></div> <div><div>⑪</div><div>UNIT TO INCLUDE 2" MERV-13 PLEATED FILTERS.</div></div> <div><div>⑫</div><div>UNIT TO INCLUDE UV-C PROTECTION. EQUIPMENT SHALL BE FRESH-AIRE UV AIRBORNE DUCT SYSTEM MODEL TUV-C-ADS (OR APPROVED EQUAL).</div></div> <div><div>⑬</div><div>UNIT GPU-1 TO INCLUDE 2 SPEED INDOOR MOTOR.</div></div> <div><div>⑭</div><div>UNITS GPU-1, GPU-2, AND GPU-4 TO INCLUDE ALL NECESSARY SENSORS, DAMPER ACTUATORS, ETC. TO PROVIDE ULTRA LOW LEAKAGE ECONOMIZER FUNCTION WITH COMPARATIVE ENTHALPY CONTROL.</div></div> <div><div>⑮</div><div>ALL UNITS SHALL BE ASHRAE 90.1-2013 COMPLIANT.</div></div>														
APPROVED EQUALS: AMERICAN STANDARD, BRYANT, CARRIER, LENNOX, AND RHEEM														

GAS PACKAGED UNIT ELECTRICAL SCHEDULE											
MARK NO.	VOLTAGE	COMPRESSOR QTY	COMPRESSOR R.L.A. (EACH)	OUTDOOR FAN QTY	OUTDOOR FAN F.L.A. (EACH)	INDOOR FAN MOTOR H.P.	MINIMUM CIRCUIT AMPS	MAXIMUM OVERCURRENT PROTECTION	SINGLE POINT CONNECTION	UNIT WEIGHT LBS	NOTES
GPU 1	208/230-3-60	2	(1.2) 14.5,14.0	1	3.3	1.0	39	50	YES	1,260	-
GPU 2	208/230-3-60	1	15.9	1	1.4	1.0	29	40	YES	830	-
GPU 3	208/230-3-60	1	10.4	1	1.1	0.75	20	30	YES	780	-
GPU 4	208/230-3-60	1	15.9	1	1.4	1.0	29	40	YES	830	-

INTAKE VENT SCHEDULE							
MARK NO.	CFM	THROAT AREA S.F.	P.D.	MATERIAL	MANUFACTURER (OR APPROVED EQUAL)	MODEL NO.	NOTES
IV 1	20	0.394	0.05	SPUN ALUMINUM	LOREN COOK	PR-8	SEE BELOW
IV 2	500	0.852	0.05	SPUN ALUMINUM	LOREN COOK	PR-12	SEE BELOW
<div><div>1</div><div>INTAKE VENT TO INCLUDE FACTORY ROOF CURB. COORDINATE ALL ROOF CURBS WITH THE ROOFING CONTRACTOR.</div></div> <div><div>2</div><div>INTAKE VENT TO INCLUDE FACTORY MOTORIZED DAMPER, MANUAL DAMPER, AND BIRDSCREEN.</div></div>							
APPROVED EQUALS: CARNES, GREENHECK, AND PENN							



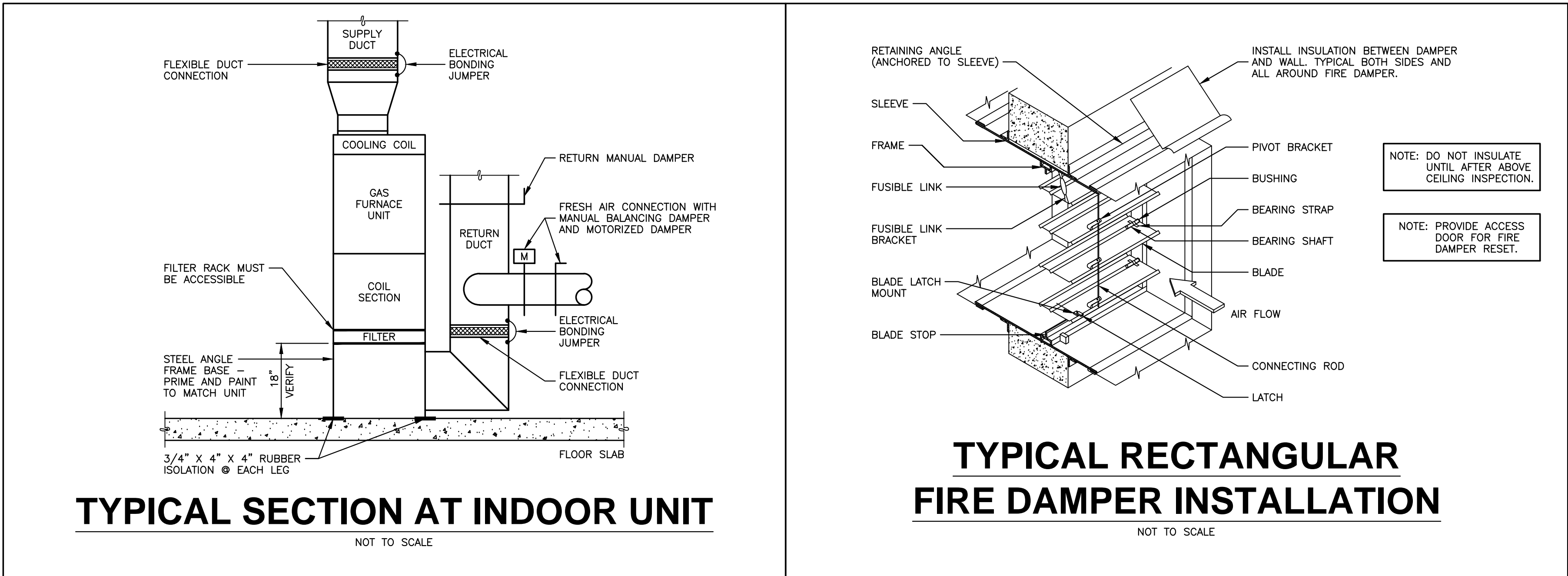
WHORTON ENGINEERING, INC.
HVAC - PLUMBING - PROCESS CONTROL

RANDALL WHORTON, P.E.
PHONE: (256) 820-9897

25 SUMMERALL GATE ROAD
ANNISTON, ALABAMA 36205

WHORTON ENGINEERING PROJECT NO. 22147

HVAC SCHEDULES AND DETAILS



ELECTRIC COOLING / GAS HEATING EQUIPMENT SCHEDULE																
MARK NO.	NOMINAL FAN CFM	MAXIMUM OSA CFM	MIN ESP (IN W.C.)	COOLING CAPACITY				MIN. SEER	HEATING CAPACITY		MODEL NO. DATA			APPROXIMATE REFRIG. PIPING SIZE		NOTES
				TOTAL CAP. MBH	SENS. CAP. MBH	COND. E.A.T.	EVAP. E.W.B. TEMP		NAT. GAS INPUT MBH	NAT. GAS OUTPUT MBH	MANUFACTURER (OR APPROVED EQUAL)	INDOOR UNIT MODEL NO.	OUTDOOR UNIT MODEL NO.	GAS (IN. O.D.)	LIQUID (IN. O.D.)	
GF 1	2,000	500	0.8"	59.0	46.1	95	80/67	14.0	80.0	77.8	TRANE	S9X1C080	4TTA4060	7/8	3/8	SEE BELOW
<p>① UNIT TO INCLUDE A 7-DAY PROGRAMMABLE AUTOMATIC CHANGEOVER ELECTRONIC SETBACK THERMOSTAT/HUMIDISTAT WITH SUB-BASE AND LOCKING COVER.</p> <p>② UNIT TO INCLUDE FACTORY ADD-ON COOLING COIL, EXTERNAL FILTER MOUNTING, AND FILTER KIT.</p> <p>③ UNIT TO INCLUDE CONDENSER HAIL GUARD AND FILTER RACK.</p> <p>④ VERTICAL UNIT TO BE MOUNTED ON A STEEL ANGLE PLENUM. PRIME AND PAINT STEEL TO MATCH UNIT. VERIFY PLENUM HEIGHT WITH EQUIPMENT SUPPLIER.</p> <p>⑤ UNIT TO INCLUDE FACTORY HOT GAS REHEAT FOR DEHUMIDIFICATION CONTROL AND RAWAL APR VALVE.</p> <p>⑥ REFRIGERANT R-410A.</p> <p>⑦ AFUE = 92-96%</p> <p>⑧ UNIT TO INCLUDE BIOCLIMATIC (OR APPROVED EQUAL) BI-POLAR IONIZATION UNIT (NEEDLEPOINT) MOUNTED IN UNIT RETURN DUCT PER MANUFACTURER'S RECOMMENDATION. IONIZATION UNIT SHALL BE POWERED FROM ASSOCIATED GAS FURNACE.</p> <p>⑨ CONCENTRIC VENT/INTAKE.</p> <p>⑩ CRANKCASE HEATER, TIMED OFF CONTROL.</p> <p>⑪ UNIT TO INCLUDE LOW AMBIENT CONTROLS TO 0 DEG F.</p> <p>⑫ UNIT TO INCLUDE UV-C PROTECTION. EQUIPMENT SHALL BE FRESH-AIRE UV AIRBORNE DUCT SYSTEM MODEL TUV-C-ADS (OR APPROVED EQUAL).</p> <p>⑬ UNIT TO INCLUDE 2" MERV 13 PLEATED FILTERS.</p> <p>⑭ UNIT TO INCLUDE FACTORY CONDENSATE PUMP.</p> <p>⑮ UNIT TO INCLUDE FACTORY RETURN AIR SMOKE DETECTOR.</p> <p>⑯ VERIFY FINAL REFRIGERANT PIPING SIZE AND LENGTH WITH MANUFACTURER.</p> <p>⑰ UNIT SHALL BE ASHRAE 90.1-2013 COMPLIANT.</p>																
APPROVED EQUALS: AMERICAN STANDARD, BRYANT, CARRIER, LENNOX, AND RHEEM																

ELECTRIC COOLING / GAS HEATING EQUIPMENT ELECTRICAL DATA												
MARK NO.	OUTDOOR UNIT						INDOOR UNIT					SINGLE POINT CONNECTION
	VOLTAGE	COMPRESSOR R.L.A.	FAN F.L.A.	MINIMUM CIRCUIT AMPS (MCA)	MAXIMUM OVERCURRENT PROTECTION	WEIGHT (LBS.)	VOLTAGE	FAN (H.P.)	MINIMUM CIRCUIT AMPS (MCA)	MAXIMUM OVERCURRENT PROTECTION	WEIGHT (LBS.)	
GF 1	208/230-3-60	15.9	1.05	21	35	250	120-1-60	1.0	14.1	15	150	YES

HVAC SCHEDULES AND DETAILS

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HVAC - PLUMBING - PROCESS CONTROL

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25 SUMMERALL GATE ROAD
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WHORTON ENGINEERING PROJECT NO. 22147

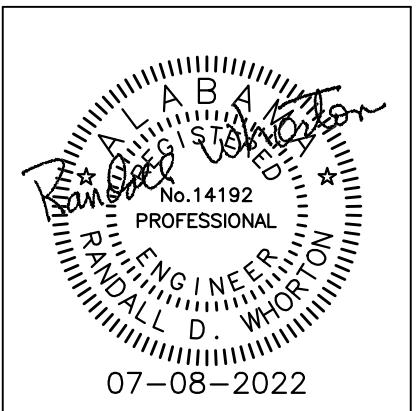
PROJ. MGR.:	RDW
DRAWN:	JH
DATE:	JULY 8, 2022
REVISIONS	

JOB NO. 22-10

SHEET NO:
M1.3

3 OF 7

0 1" 2"

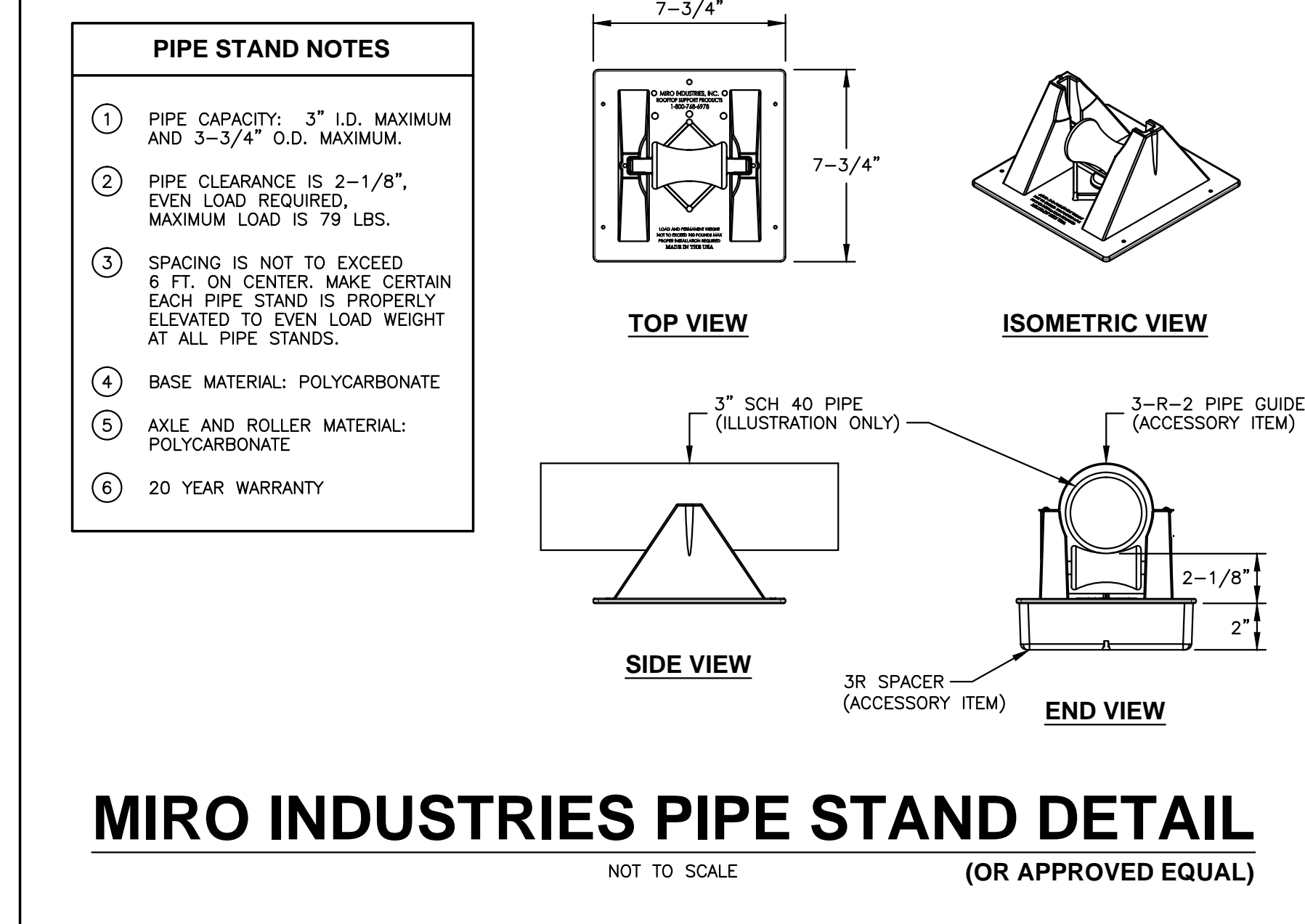
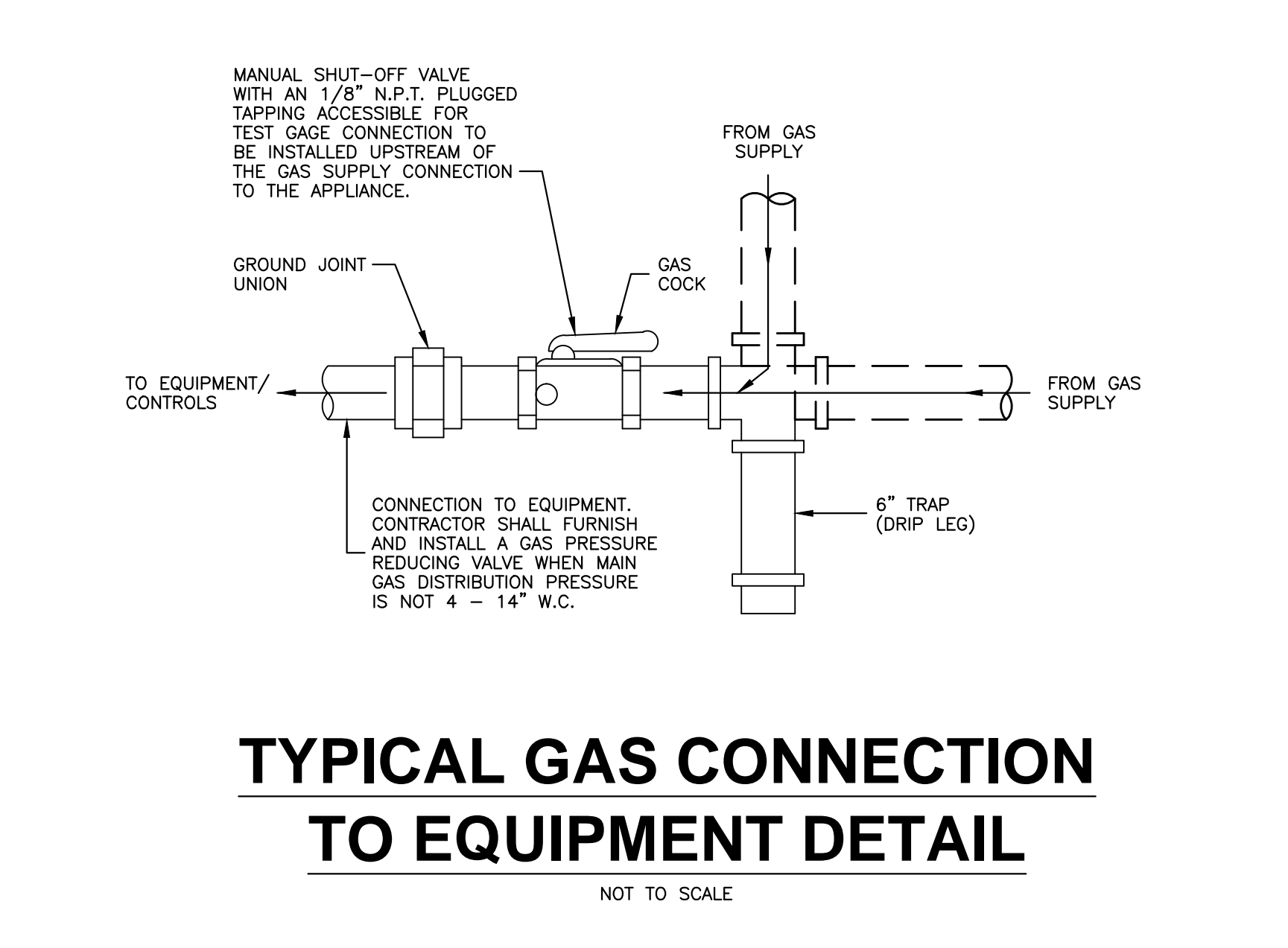
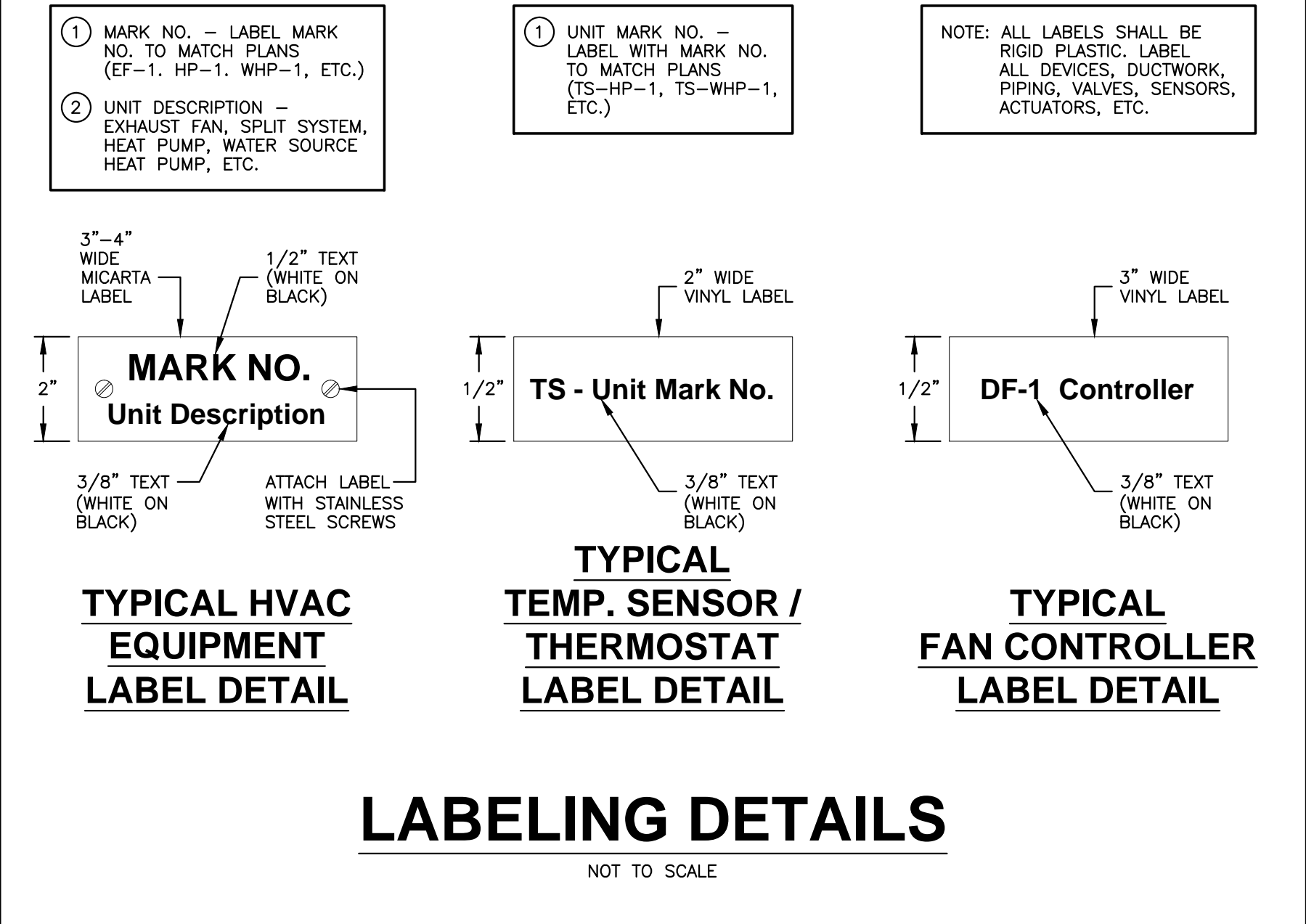
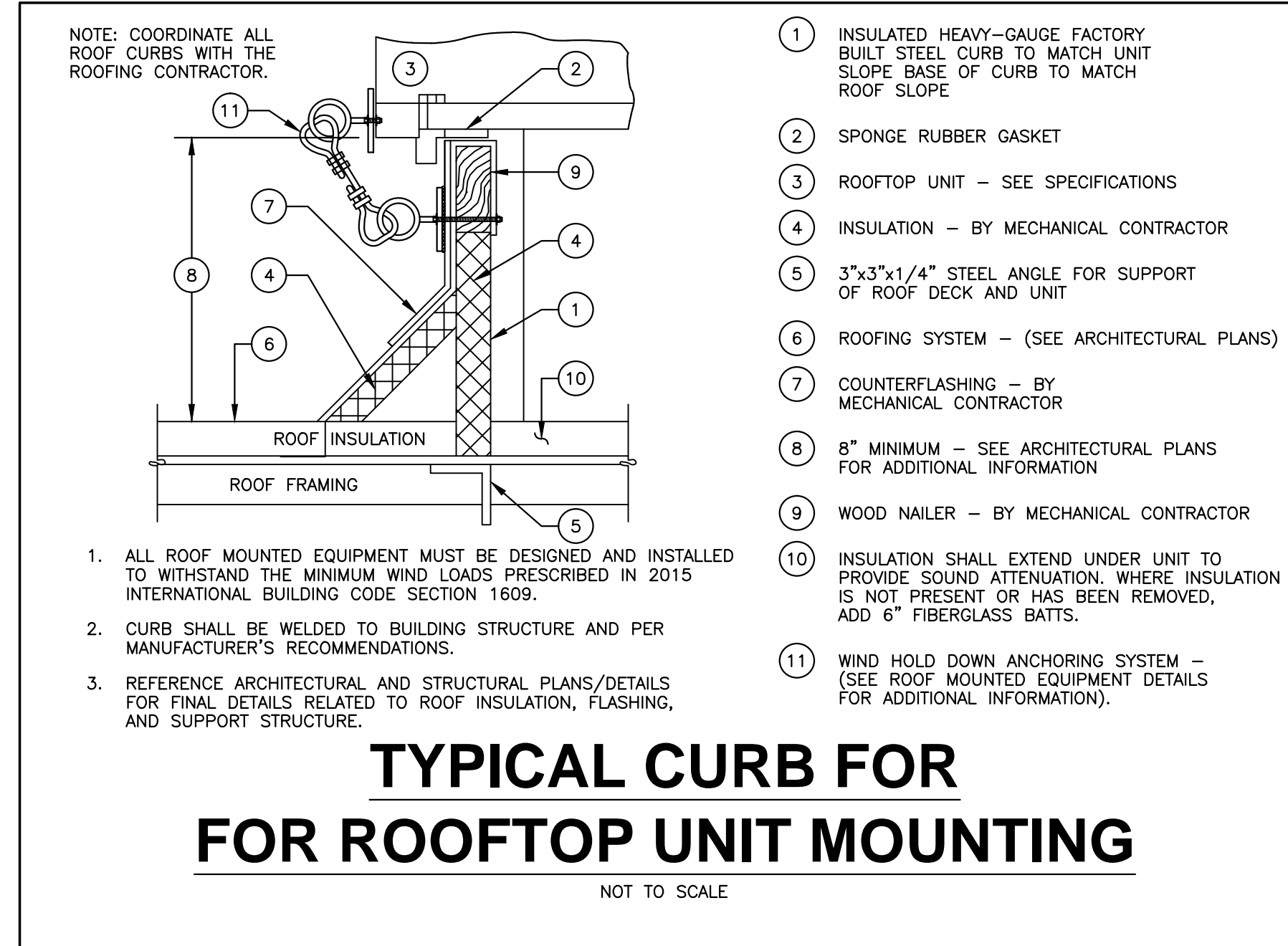
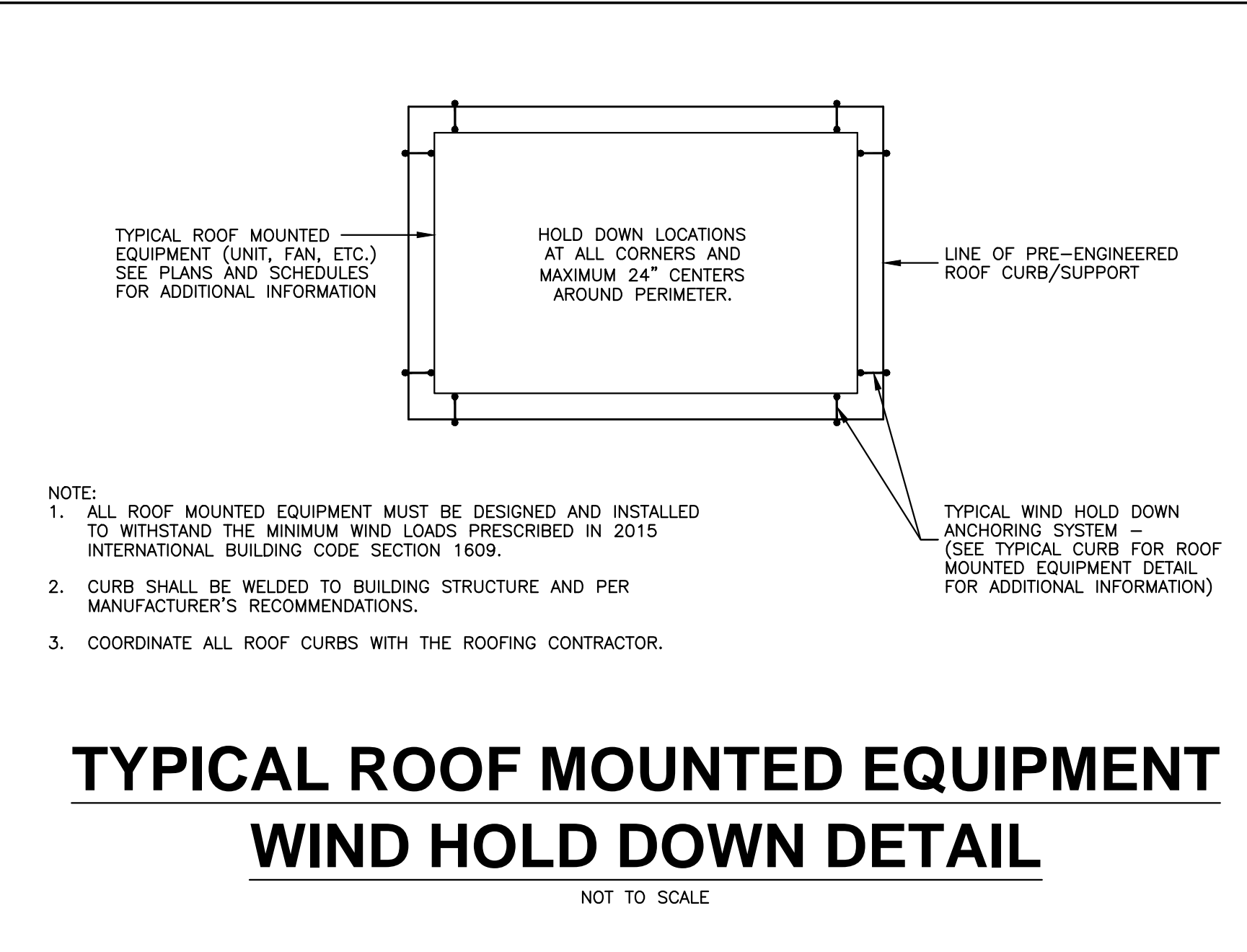
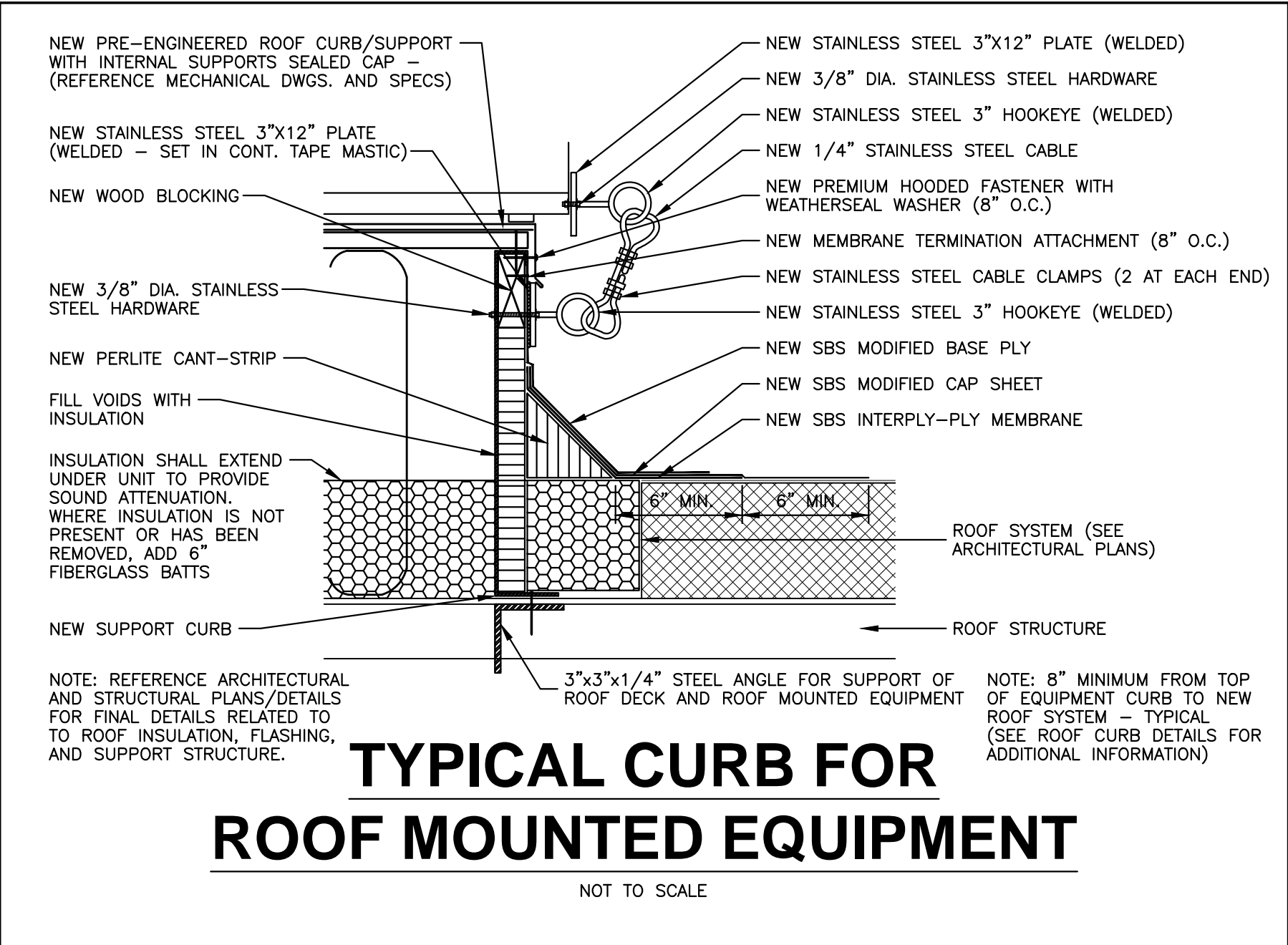


SHEET TITLE:
HVAC DETAILS

PROJ. MGR.: RDW
DRAWN: JH
DATE: JULY 8, 2022
REVISIONS

JOB NO. 22-10
SHEET NO:
M2.1
4 OF 7
0 1" 2"

WHORTON ENGINEERING, INC.
HVAC - PLUMBING - PROCESS CONTROL
RANDALL WHORTON, P.E.
PHONE: (256) 820-9897
25 SUMMERALL GATE ROAD
ANNISTON, ALABAMA 36205
WHORTON ENGINEERING PROJECT NO. 22147



HVAC DETAILS

Bioclimatic
IAQ Analysis/Design Program
©1995 - 2006 Bioclimatic Air Systems
Ventilation Formula (Based on Appendices D and E, ASHRAE Standard 62-01)

Project: SERVING
Representative: GPU-3
Date: June 1, 2022

Total Airflow Into The Space (cfm)	1,200
Ventilation (Outside) Airflow (cfm)	300
Recirculation Airflow (cfm)	900
Number of Occupants	12

Volume Calculator (Optional)

Length of Space (ft)	
Width of Space (ft)	
Height of Space (ft)	
Volume Of The Space (ft ³) re-enter below	0
Volume Of The Space (ft ³)	5,720
Outdoor Concentration of CQ (ppm)	340
Indoor Concentration of CQ	
At Time t=0 (ppm)	340
CO ₂ Generation Rate By One (1)	
Occupant (ft ³ /hr)	0.62
Level of Physical Activity	Sedentary, At Ease
CO ₂ Generation Rate By	
Non-occupant Sources (ft ³ /hr)	0
Ventilation Effectiveness (fraction)	0.8
Respiratory Flow (Single Occupant, cfm)	0.27
Time (t, minutes)	90

Notes: Application
Total Air (cfm/p) 100.0
Outside Air (cfm/p) 25.0
Air Changes/Hr 12.6
(Notes)

CO₂ Calculation

Steady State CO ₂ Concentration, time =∞	857 ppm
(No filtration)	
CO ₂ Concentration at time = t	852 ppm

*Interpretation of CO₂ concentrations (click on Help!)

Carbon Dioxide Concentration vs. Time

time (t)	concentration (ppm)
0	340
15	621
30	750
45	808
60	834
75	847
90	852
105	855
120	856
135	856
150	856
165	857
180	857
195	857
210	857
225	857
240	857
255	857
270	857
285	857
300	857

Bioclimatic
IAQ Analysis/Design Program
©1995 - 2006 Bioclimatic Air Systems
Ventilation Formula (Based on Appendices D and E, ASHRAE Standard 62-01)

Project: DINING
Representative: GPU-2 AND GF-1
Date: June 1, 2022

Total Airflow Into The Space (cfm)	4,000
Ventilation (Outside) Airflow (cfm)	1,000
Recirculation Airflow (cfm)	3,000
Number of Occupants	108

Volume Calculator (Optional)

Length of Space (ft)	
Width of Space (ft)	
Height of Space (ft)	
Volume Of The Space (ft ³) re-enter below	0
Volume Of The Space (ft ³)	14,490
Outdoor Concentration of CQ (ppm)	340
Indoor Concentration of CQ	
At Time t=0 (ppm)	340
CO ₂ Generation Rate By One (1)	
Occupant (ft ³ /hr)	0.62
Level of Physical Activity	Sedentary, At Ease
CO ₂ Generation Rate By	
Non-occupant Sources (ft ³ /hr)	0
Ventilation Effectiveness (fraction)	0.8
Respiratory Flow (Single Occupant, cfm)	0.27
Time (t, minutes)	90

Notes: Application
Total Air (cfm/p) 37.0
Outside Air (cfm/p) 9.3
Air Changes/Hr 16.6
(Notes)

CO₂ Calculation

Steady State CO ₂ Concentration, time =∞	1,735 ppm
(No filtration)	
CO ₂ Concentration at time = t	1,732 ppm

*Interpretation of CO₂ concentrations (click on Help!)

Carbon Dioxide Concentration vs. Time

time (t)	concentration (ppm)
0	340
15	1240
30	1599
45	1673
60	1713
75	1727
90	1732
105	1734
120	1735
135	1735
150	1735
165	1735
180	1735
195	1735
210	1735
225	1735
240	1735
255	1735
270	1735
285	1735
300	1735

Bioclimatic
IAQ Analysis/Design Program
©1995 - 2006 Bioclimatic Air Systems
Ventilation Formula (Based on Appendices D and E, ASHRAE Standard 62-01)

Project: DINING
Representative: GPU-1
Date: June 1, 2022

Total Airflow Into The Space (cfm)	3,000
Ventilation (Outside) Airflow (cfm)	750
Recirculation Airflow (cfm)	2,250
Number of Occupants	108

Volume Calculator (Optional)

Length of Space (ft)	
Width of Space (ft)	
Height of Space (ft)	
Volume Of The Space (ft ³) re-enter below	0
Volume Of The Space (ft ³)	17,224
Outdoor Concentration of CQ (ppm)	340
Indoor Concentration of CQ	
At Time t=0 (ppm)	340
CO ₂ Generation Rate By One (1)	
Occupant (ft ³ /hr)	0.62
Level of Physical Activity	Sedentary, At Ease
CO ₂ Generation Rate By	
Non-occupant Sources (ft ³ /hr)	0
Ventilation Effectiveness (fraction)	0.8
Respiratory Flow (Single Occupant, cfm)	0.27
Time (t, minutes)	90

Notes: Application
Total Air (cfm/p) 27.8
Outside Air (cfm/p) 6.9
Air Changes/Hr 10.5
(Notes)

CO₂ Calculation

Steady State CO ₂ Concentration, time =∞	2,200 ppm
(No filtration)	
CO ₂ Concentration at time = t	2,163 ppm

*Interpretation of CO₂ concentrations (click on Help!)

Carbon Dioxide Concentration vs. Time

time (t)	concentration (ppm)
0	340
15	1232
30	1696
45	1938
60	2064
75	2129
90	2163
105	2181
120	2190
135	2195
150	2197
165	2198
180	2199
195	2200
210	2200
225	2200
240	2200
255	2200
270	2200
285	2200
300	2200

Bioclimatic
IAQ Analysis/Design Program
©1995 - 2006 Bioclimatic Air Systems
Ventilation Formula (Based on Appendices D and E, ASHRAE Standard 62-99, "Required Outdoor Air or Space Contaminant Concentration with Recirculation and Filtration")

Project: SERVING
Representative: GPU-3
Date: June 1, 2022

Contaminant: Ammonia

Contaminant Conc. no smoking (blank for Off)

Ambient Contaminant Conc. (blank for off)

List of Contaminants in Cigarette

List of Contaminants by Humans

Steady State Contaminant Concentration:	
Acceptable Threshold Limit	2.000 ppm
No filtration	0.563 ppm
With Bi-Polar Ionization(Media if checked)	0.312 ppm

Notes: Application
TA (cfm/p) 100
OA (cfm/p) 25.0
ACHr 12.6
(Notes)

Steady State Contaminant Conc., ppm

# of Occupants	12
Contaminant Generation Rate	6.880E-06 lb/min
Smoking in space	
# of cigarettes / hour / person	
% of People Smoking	
Ventilation Effectiveness	0.8
Recirculation Flow Factor	0.75
Volumetric Return Air Flow	300 cfm
Gas Phase Filtration Media Used	
GPF Efficiency	30%
O/A Contaminant Concentration	7.49136E-11 lb/R ³
Volumetric Outdoor Air Flow	300 cfm
Molecular Wt. of Contaminant	17
Outside Air Gas Phase Filtration	

Bioclimatic
IAQ Analysis/Design Program
©1995 - 2006 Bioclimatic Air Systems
Ventilation Formula (Based on Appendices D and E, ASHRAE Standard 62-99, "Required Outdoor Air or Space Contaminant Concentration with Recirculation and Filtration")

Project: DINING
Representative: GPU-2 AND GF-1
Date: June 1, 2022

Contaminant: Ammonia

Contaminant Conc. no smoking (blank for Off)

Ambient Contaminant Conc. (blank for off)

List of Contaminants in Cigarette

List of Contaminants by Humans

Steady State Contaminant Concentration:	
Acceptable Threshold Limit	2.000 ppm
No filtration	1.518 ppm
With Bi-Polar Ionization(Media if checked)	0.841 ppm

Notes: Application
TA (cfm/p) 37
OA (cfm/p) 9.3
ACHr 16.6
(Notes)

Steady State Contaminant Conc., ppm

# of Occupants	108
Contaminant Generation Rate	6.192E-05 lb/min
Smoking in space	
# of cigarettes / hour / person	
% of People Smoking	
Ventilation Effectiveness	0.8
Recirculation Flow Factor	0.75
Volumetric Return Air Flow	3000 cfm
Gas Phase Filtration Media Used	
GPF Efficiency	30%
O/A Contaminant Concentration	7.49136E-11 lb/R ³
Volumetric Outdoor Air Flow	1,000 cfm
Molecular Wt. of Contaminant	17
Outside Air Gas Phase Filtration	

Bioclimatic
IAQ Analysis/Design Program
©1995 - 2006 Bioclimatic Air Systems
Ventilation Formula (Based on Appendices D and E, ASHRAE Standard 62-99, "Required Outdoor Air or Space Contaminant Concentration with Recirculation and Filtration")

Project: DINING
Representative: GPU-1
Date: June 1, 2022

Contaminant: Ammonia

Contaminant Conc. no smoking (blank for Off)

Ambient Contaminant Conc. (blank for off)

List of Contaminants in Cigarette

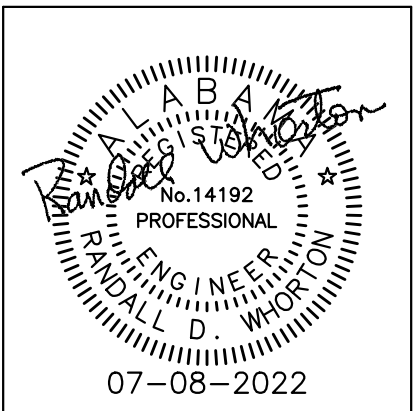
List of Contaminants by Humans

Steady State Contaminant Concentration:	
Acceptable Threshold Limit	2.000 ppm
No filtration	2.023 ppm
With Bi-Polar Ionization(Media if checked)	1.121 ppm

Notes: Application
TA (cfm/p) 28
OA (cfm/p) 6.9
ACHr 10.5
(Notes)

Steady State Contaminant Conc., ppm

# of Occupants	108
Contaminant Generation Rate	6.192E-05 lb/min
Smoking in space	
# of cigarettes / hour / person	
% of People Smoking	
Ventilation Effectiveness	0.8
Recirculation Flow Factor	0.75
Volumetric Return Air Flow	2250 cfm
Gas Phase Filtration Media Used	
GPF Efficiency	30%
O/A Contaminant Concentration	7.49136E-11 lb/R ³
Volumetric Outdoor Air Flow	750 cfm
Molecular Wt. of Contaminant	17
Outside Air Gas Phase Filtration	



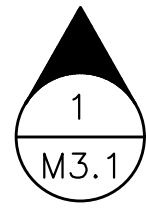
SHEET TITLE:
HVAC DEMOLITION
PLAN

PROJ. MGR.: RDW
DRAWN: MCK
DATE: JULY 8, 2022
REVISIONS

JOB NO. 22-10
SHEET NO:
M3.1
6 OF 7
0 1" 2"



1 EXISTING ROOFTOP UNIT BE REMOVED. CONTRACTOR SHALL PATCH/REPAIR ALL SURFACES TO MATCH EXISTING FINISHES.



EXISTING ROOFTOP UNIT

NOT TO SCALE



1 EXISTING AIR HANDLERS TO BE REMOVED. CONTRACTOR SHALL PATCH/REPAIR ALL SURFACES TO MATCH EXISTING FINISHES.



EXISTING AIR HANDLERS

NOT TO SCALE



1 EXISTING WALL MOUNTED UNIT TO BE REMOVED. CONTRACTOR SHALL PATCH/REPAIR ALL SURFACES TO MATCH EXISTING FINISHES.



EXISTING WALL UNIT

NOT TO SCALE

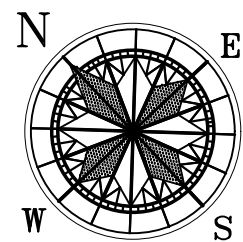
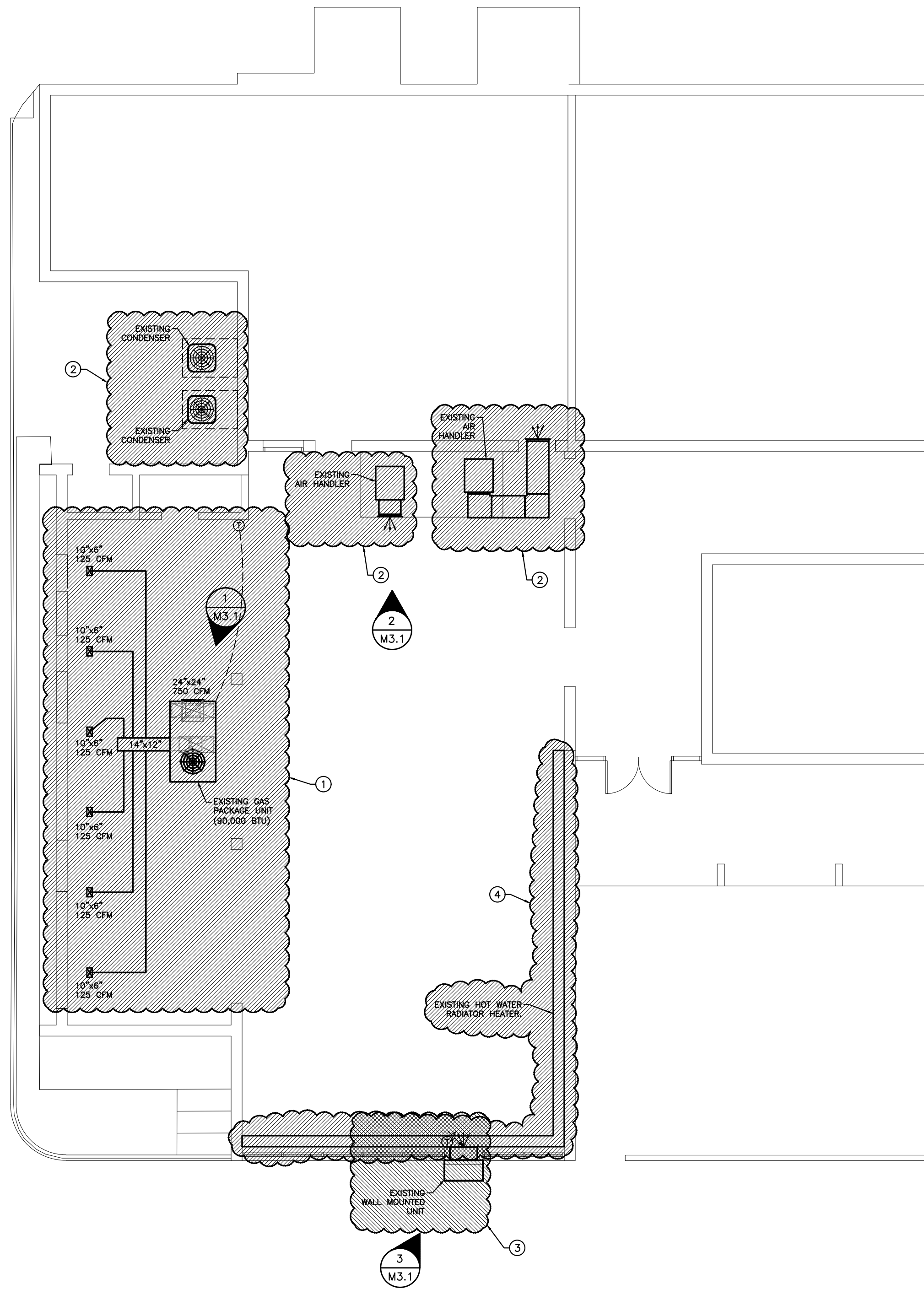
HVAC DEMOLITION NOTES

1. REMOVE EXISTING ROOFTOP UNIT, CONTROLS, DUCT, GRILLS, ETC. PATCH/REPAIR ALL SURFACES TO MATCH EXISTING FINISHES.
2. REMOVE EXISTING AIR HANDLER, CONDENSER, DUCT, CONTROLS, GRILLS, ETC. PATCH/REPAIR ALL SURFACES TO MATCH EXISTING FINISHES.
3. REMOVE EXISTING WALL MOUNTED UNIT, DUCT, CONTROLS, ETC. PATCH/REPAIR ALL SURFACES TO MATCH EXISTING FINISHES.
4. REMOVE EXISTING WALL MOUNTED HOT WATER RADIATOR HEATER SYSTEM, PIPING, CONTROLS, VALVES, ETC. CAP ALL EXISTING HOT WATER LINES BEHIND EXISTING SURFACES WATER TIGHT. PATCH/REPAIR ALL SURFACES TO MATCH EXISTING FINISHES.

VERIFY DISPOSAL OF EXISTING EQUIPMENT WITH OWNER

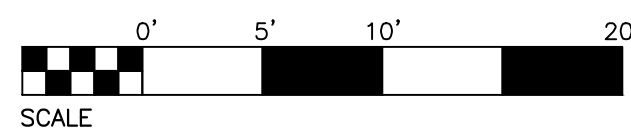
GENERAL:

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND EQUIPMENT PRIOR TO BIDDING. THIS SHALL INCLUDE ALL ITEMS TO BE REMOVED OR RELOCATED, ALL ELECTRICAL, ALL REFRIGERANT PIPING, CONTROLS, ETC.
2. PATCH/REPAIR ALL OPENINGS LEFT ABANDONED DUE TO THE REMOVAL OF ALL EQUIPMENT (UNIT, DUCT, PIPING, ELECTRICAL, ETC.) PATCH/REPAIR ALL SURFACES TO MATCH EXISTING.
3. REMOVE ALL ABANDONED PIPING, CONDUIT, ELECTRICAL, ETC. PATCH/REPAIR ALL HOLES, ETC. TO MATCH EXISTING FINISHES.
4. VERIFY DISPOSITION OF ALL EQUIPMENT WITH OWNER. INCLUDE ALL COSTS ASSOCIATED WITH COMPLETE REMOVAL AND DISPOSAL IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REGULATIONS.
5. REPAIR/REPLACE ANY EXISTING EQUIPMENT DAMAGED DURING DEMOLITION.
6. PATCH/REPAIR WALLS, FLOOR, CEILING, ETC. TO MATCH EXISTING.
7. PROTECT ALL EXISTING BUILDINGS AND WORK TO REMAIN, INCLUDING ALL EXISTING STRUCTURE, FINISHES, AND MATERIALS AT ALL TIMES FROM DAMAGE DUE TO WORK UNDER THIS CONTRACT OR FROM DAMAGE DUE TO EXPOSURE TO THE ELEMENTS. ANY SUCH DAMAGE WILL BE REPAIRED, PATCHED, OR REPLACED TO MATCH ORIGINAL EXISTING CONDITION.
8. TEMPORARILY REMOVE EXISTING ITEMS TO REMAIN IF REQUIRED TO PROPERLY INSTALL NEW WORK. UPON COMPLETION OF DEMOLITION OR NEW WORK, RE-INSTALL SUCH REMOVED ITEMS TO MATCH ORIGINAL EXISTING CONDITION.
9. ALL BIDDERS SHALL VISIT THE JOB SITE PRIOR TO SUBMITTING A BID TO DETERMINE THE TOTAL SCOPE OF WORK AND TO COMPLETELY FAMILIARIZE THEMSELVES WITH THE PROJECT. INCLUDE ALL EXISTING CONDITIONS, BUILDINGS, STRUCTURE, FINISHES, AND MATERIALS IN ALL AREAS AFFECTED BY WORK UNDER THIS CONTRACT.



HVAC DEMOLITION PLAN

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



EXISTING CONDITIONS DRAWING IS FOR REFERENCE PURPOSES ONLY. DEMOLITION IS SHOWN. OTHER NOTES ON PLANS APPLY TO PREVIOUS PROJECTS AND DO NOT REPRESENT NEW WORK EXCEPT AS SHOWN ON REVISED PLANS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK.

WHORTON ENGINEERING, INC.

HVAC - PLUMBING - PROCESS CONTROL

RANDALL WHORTON, P.E.
PHONE: (256) 820-9897

25 SUMMERALL GATE ROAD
ANNISTON, ALABAMA 36205

WHORTON ENGINEERING PROJECT NO. 22147



ADDITION AND RENOVATIONS TO CAFETERIA AT
SALTER ELEMENTARY SCHOOL
106 BRECON ACCESS ROAD, TALLADEGA, AL 35760
TALLADEGA CITY BOARD OF EDUCATION



PROJ. MGR.:	RDW
DRAWN:	MCK
DATE:	JULY 8, 2022
REVISIONS	

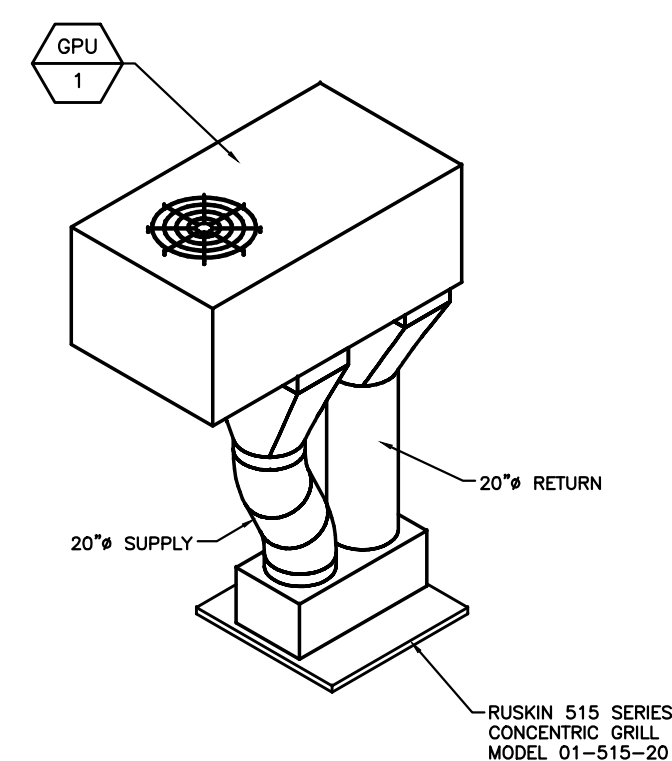
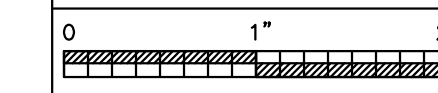
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JOB NO. 22-10

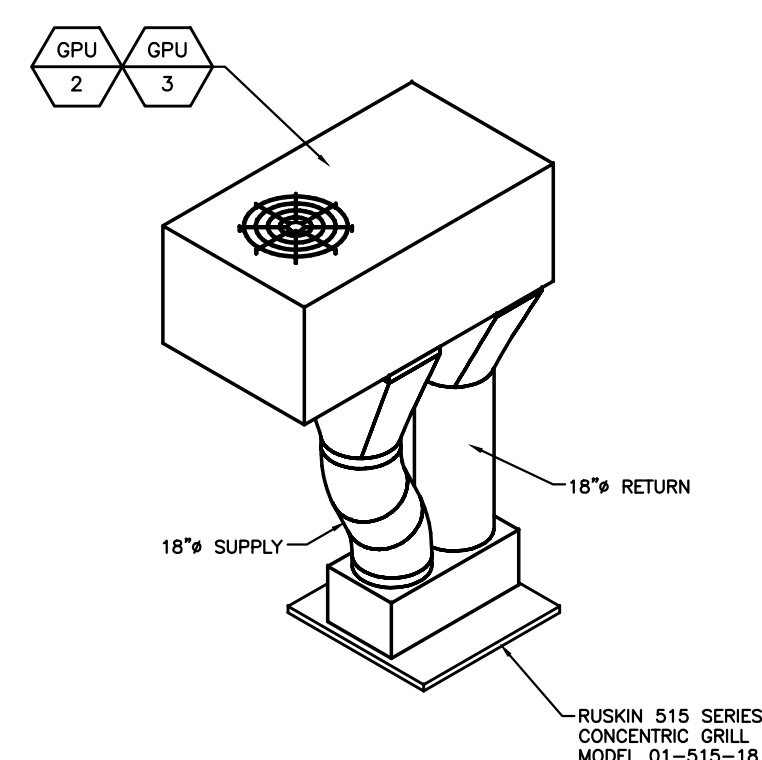
SHEET NO:

M4.1

7 OF 7



DUCT SCHEMATIC GPU-1

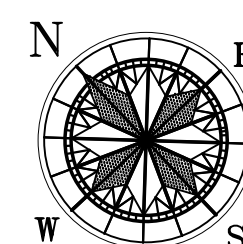
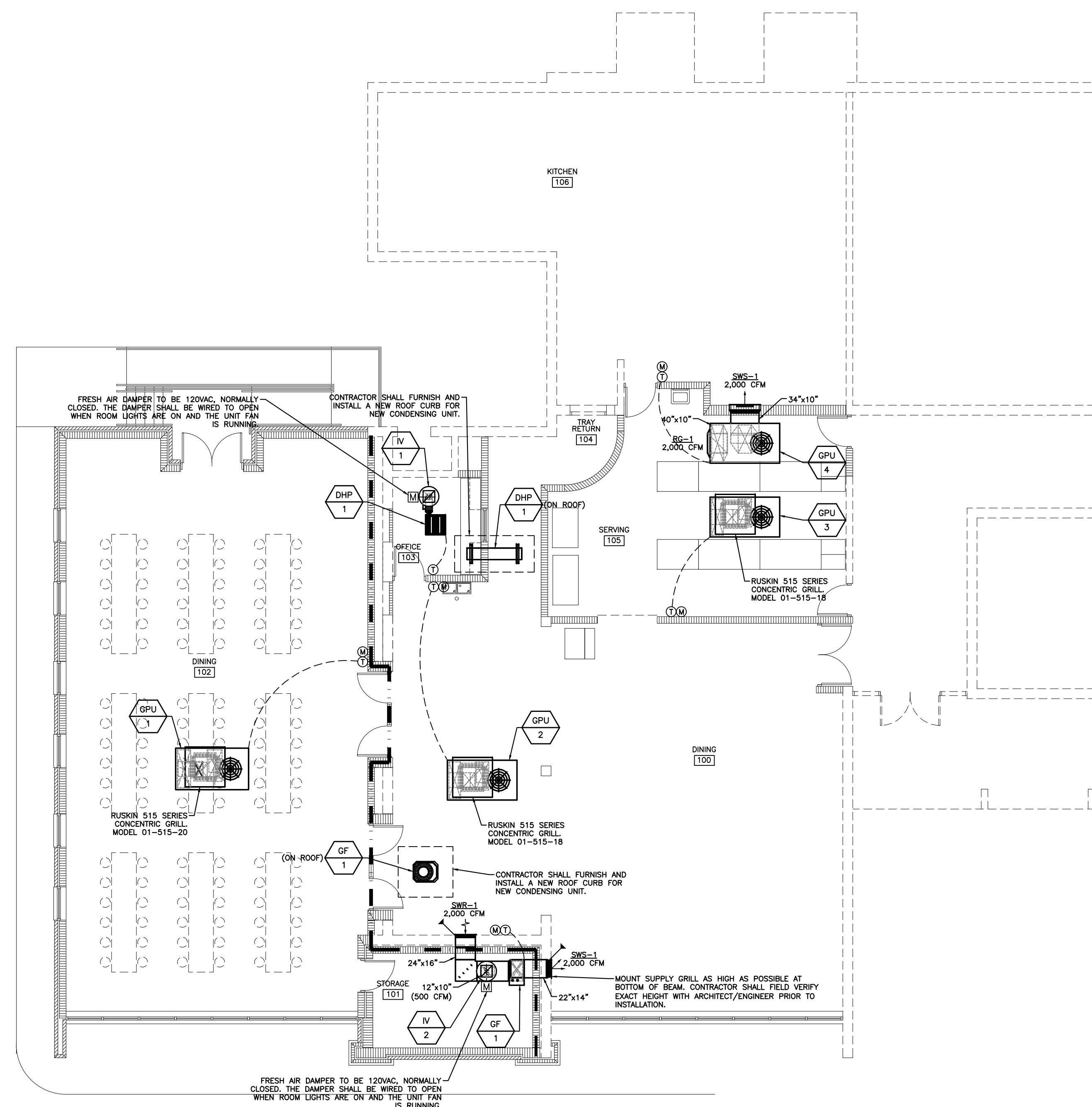


DUCT SCHEMATIC GPU-2, & 3

DIFFUSER SCHEDULE

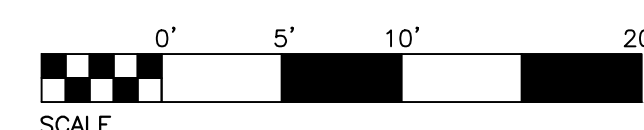
TAG	Size	Neck Size	Quantity	Manufacturer	Model Number	Type	Notes
SWR-1	24"x36"	24X24	1	TITUS	33RL	RETURN	1" FILTER
RG-1	24"x24"	23X23	1	TITUS	8FF	RETURN	20"x20"x1" FILTER
SWS-1	36"x16"	36X16	2	TITUS	272RL	SUPPLY	
			4				

NOTE: FURNISH AND INSTALL AN INSULATION BLANKET ON THE BACK OF ALL CEILING MOUNTED DIFFUSERS AND GRILLES.



REVISED HVAC PLAN

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



FIRE WALL LEGEND

2 HOUR WALL

REFERENCE PLUMBING PLANS FOR CONDENSATE PIPING

WHORTON ENGINEERING, INC.

HVAC – PLUMBING – PROCESS CONTROL

RANDALL WHORTON, P.E.
PHONE: (256) 820-9897

25 SUMMERALL GATE ROAD
ANNISTON, ALABAMA 36205

WHORTON ENGINEERING PROJECT NO. 22147

PLUMBING NOTES

1. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, ACCESSORIES, AND CONTROLS COMPLETELY COORDINATED WITH ALL TRADES. ALL REQUIREMENTS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED TO. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, LOCAL AUTHORITIES, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
2. COORDINATE ALL WORK WITH ARCHITECTURAL, STRUCTURAL, HVAC, AND ELECTRICAL TRADES. PIPE ROUTING SHOWN IS DIAGRAMMATIC. PROVIDE ALL OFFSETS, ETC., TO AVOID INTERFERENCES WITH EQUIPMENT, PIPING, DUCTWORK, LIGHTS, CONDUIT, ETC.
3. FIELD VERIFY EXACT SIZE, MATERIAL, AND LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING WORK.
4. VERIFY LOCATION OF ALL FIXTURES WITH ARCHITECTURAL PLANS.
5. VERIFY ALL FIXTURE MOUNTING HEIGHTS WITH ENGINEER AND ARCHITECT.
6. COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL DRAWINGS. SET SLEEVES IN FLOORS/WALLS AND ATTACHMENTS FOR HANGERS AS CONSTRUCTION PROGRESSES. ALL PENETRATIONS MUST BE SEALED AND HELD AS TIGHT TO COLUMNS OR WALLS AS POSSIBLE.
7. PROVIDE 12"x12" ACCESS PANEL FOR SHOCK ABSORBERS, TRAP PRIMERS, AND ALL VALVES LOCATED ABOVE NON-ACCESSIBLE CEILINGS AND INSIDE PIPE CHASES. EXACT LOCATION MUST BE COORDINATED WITH ARCHITECTURAL AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
8. ALL PIPING SHALL BE CONCEALED INSIDE WALLS, WITHIN PIPE CHASES, OR ABOVE CEILINGS. HOLD ALL PIPING ABOVE CEILING AS HIGH AS POSSIBLE.
9. COORDINATE ALL UNDERGROUND PIPING WITH GRADE BEAMS, WALL FOOTINGS, AND OTHER STRUCTURAL CONDITIONS.
10. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL EQUIPMENT INDICATED ON DRAWINGS FINAL CONNECTION SHALL INCLUDE ANY ADAPTORS, NIPPLES, SHUT-OFF VALVES, PRV'S, SHOCK ABSORBERS, BACKFLOW PREVENTION DEVICES, REGULATORS, ETC.
11. ALL STRUCTURAL PENETRATIONS (SLEEVES, BLOCK OUTS, ETC.) ARE TO BE LOCATED AND COORDINATED IN THE FIELD BY THE CONTRACTOR IN RELATION TO THE REQUIREMENTS OF FINAL EQUIPMENT AND FIXTURES SELECTED.
12. CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL DOMESTIC WATER AND SANITARY SEWERS, UNLESS OTHERWISE NOTED.
13. ALL PLUMBING COMPONENTS TO BE LEAD-FREE.
14. ENCASE ALL WASTE/WATER PIPING, VALVES, WATER HEATER, OR ANY OTHER ASSOCIATED PLUMBING EQUIPMENT BELOW WALL HUNG LAVATORY, WITH TRUEBRO LAV-SHIELD (OR APPROVED EQUAL). THIS APPLIES TO ALL ADA LAVS, LAVS WITH MIXING VALVES MOUNTED BELOW LAV, AND ALL LAVS THAT INCLUDE INSTANTANEOUS ELECTRIC WATER HEATERS MOUNTED BELOW LAVS. LAV GUARD SHALL INCLUDE STAINLESS STEEL TAMPER RESISTANT SCREWS. LAV-SHIELD SHALL BE ORDERED TO MATCH SPECIFIED/APPROVED LAVATORY.
15. HORIZONTAL DRAINAGE PIPING OF 2-1/2" DIAMETER OR LESS SHALL BE INSTALLED WITH A FALL OF NOT LESS THAN 1/4" PER FOOT. PIPING 3" AND LARGER SHALL BE INSTALLED WITH A FALL OF NOT LESS THAN 1/8" PER FOOT.
16. SET FLOOR DRAIN ELEVATION DEPRESSED BELOW FINISHED SLAB ELEVATION AS LISTED BELOW TO PROVIDE PROPER FLOOR SLOPE TO DRAIN:
5 FOOT DRAIN RADIUS : 1/2" DEPRESSION
10 FOOT DRAIN RADIUS : 3/4" DEPRESSION
15 FOOT DRAIN RADIUS : 1" DEPRESSION
20 FOOT DRAIN RADIUS : 1-1/4" DEPRESSION
25 FOOT DRAIN RADIUS : 1-1/2" DEPRESSION
17. ALL TRAP ARMS, P-TRAPS, ETC. EXPOSED UNDER LAVATORIES SHALL BE 18. GA. CHROME PLATED.
18. ABOVE GROUND DRAINAGE AND VENT PIPING LOCATED WITHIN FIRE RATED WALLS SHALL BE COPPER PIPE IN ACCORDANCE WITH STANDARDS ASTM B42 AND B302 OR CAST IRON PIPE IN ACCORDANCE WITH STANDARDS ASTM A 74; ASTM A 888; CISPI 301. COORDINATE WITH ARCHITECTURAL LIFE SAFETY PLANS FOR EXACT LOCATION OF ALL FIRE WALLS.
19. ALL CONDENSATE DRAIN PIPING LOCATED WITHIN RETURN AIR PLENUM, SHALL BE TYPE "L" COPPER. ALL COPPER PIPING MUST BE INSULATED WITH 1/2" ARMAFLEX OR APPROVED EQUAL. PIPING CAN ALSO BE SCHEDULE 40 CPVC. ALL CONDENSATE DRAIN PIPING THAT IS NOT LOCATED WITHIN RETURN AIR PLENUM MAY BE SCHEDULE 40 PVC WITH 1/2" ARMAFLEX INSULATION (OR APPROVED EQUAL). INSULATION SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION. COORDINATE WITH HVAC PLAN FOR REQUIREMENT AND LOCATION OF AIR PLENUM(S).
20. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER AT ALL CONNECTIONS TO MECHANICAL EQUIPMENT. KITCHEN AND LAUNDRY EQUIPMENT, ETC., AS REQUIRED BY CODE AND BY LOCAL AUTHORITY. CONTRACTOR IS TO VERIFY WITH THE LOCAL AUTHORITY THE TYPE OF BACKFLOW PREVENTION DEVICE REQUIRED FOR ALL APPLICATIONS PRIOR TO INSTALLATION.
21. ALL OVERHEAD WATER PIPING SHALL BE INSTALLED BELOW CEILING INSULATION.
22. CONTRACTOR SHALL INSTALL WATER HAMMER ARRESTER EQUAL TO ZURN SERIES 1700 AT EACH PLUMBING GROUP.
23. CONTRACTOR SHALL FURNISH AND INSTALL BALL VALVES FOR WATER SHUT-OFF AT FIXTURE GROUPINGS.
24. WATER HEATERS SHALL INCLUDE HEAT TRAP FITTING ON INLET AND OUTLET WATER CONNECTIONS.
25. ALL STOPS/SUPPLIES SHALL BE CHROME PLATED BRASS.
26. ALL GAS PIPING SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH NFPA 54, INTERNATIONAL FUEL GAS CODE.
27. ALL EXPOSED INTERIOR OR EXTERIOR GAS LINES ARE TO BE PAINTED BY THE PLUMBING CONTRACTOR WITH ONE COAT OF LATEX PAINT. INTERIOR COLOR TO MATCH WALL. EXTERIOR COLOR TO BE SELECTED BY ARCHITECT.
28. PROVIDE INSULATING UNION BETWEEN ABOVE AND BELOW GROUND GAS PIPING.
29. LABEL ALL 2 PSIG GAS PIPING IN ACCORDANCE WITH ANSI/ASME A13.1-2020, 2015 INTERNATIONAL CODES & NFPA 54.
30. FURNISH AND INSTALL GAS PRESSURE REGULATING/REDUCING VALVES WITH LEAK LIMITING DEVICE AT EACH APPLIANCE. WHERE REGULATORS ARE NOT SELF-LIMITING TYPE, VENTS SHALL BE EXTENDED TO THE BUILDING EXTERIOR.
31. UNDERGROUND GAS PIPING TO BE ASTM D 2513, POLYETHYLENE, DR 11 OR DR 11.5. REFERENCE GAS PLUMBING PLAN FOR PRESSURE OF UNDERGROUND GAS PIPING.
32. FURNISH AND INSTALL STEEL RISER TO A MINIMUM DEPTH OF 36" BELOW GRADE AT ALL LOCATIONS WHERE PE GAS PIPING RISES ABOVE GRADE.

PLUMBING EQUIPMENT SCHEDULE

MARK NO.	FIXTURE TYPE	MANUFACTURER'S MODEL NO.	MOUNT	MOUNT HEIGHT	WASTE SIZE	VENT SIZE	C.W. SIZE	H.W. SIZE	NOTES
HS-1	HAND SINK	ADVANCE TABCO MDLE NO. 7-PS-60 OR APPROVED EQUAL	WALL	-	1-1/2"	1-1/2"	1/2"	1/2"	STAINLESS STEEL, KEYHOLE WALL MOUNT BRACKET, 4" O.C. GOOSENECK FAUCET WITH AERATOR, SINK BOWL IS 10"x14"x5"
EQUALS BY ELJER, KOHLER, TOTO, AND AMERICAN STANDARD WILL BE ACCEPTED.									

PLUMBING SPECIALITY SCHEDULE

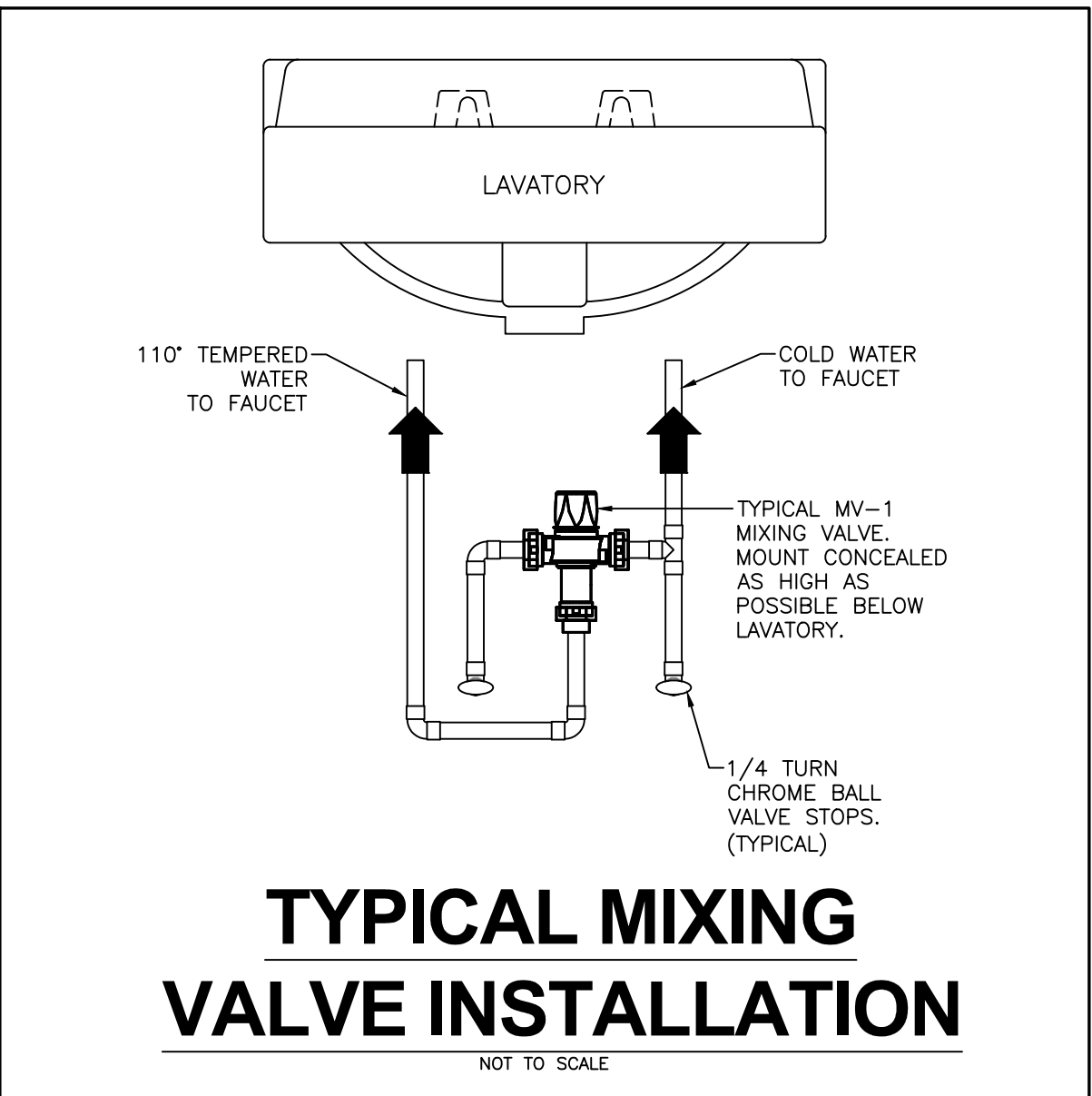
MARK NO.	FIXTURE TYPE	MANUFACTURER'S MODEL NO.	MOUNT	MOUNT HEIGHT	WASTE SIZE	VENT SIZE	C.W. SIZE	H.W. SIZE	MIXED WATER SIZE	NOTES
FD-1	FLOOR DRAIN	ZURN MODEL NO. ZN-415B-P OR APPROVED EQUAL	FLOOR	-	2"	2"	-	-	-	5" DIA. NICKEL BRONZE ADJUSTABLE TOP 1/2" TRAP PRIMER W/ PROSET SYSTEM INC. TG34IP RETROFIT TRAP GUARD
W.H.A.	WATER HAMMER ARRESTOR	ZURN SERIES 1700 OR APPROVED EQUAL	-	-	-	-	VARIES	VARIES	-	
EQUALS BY JAY R SMITH, ZURN, OATEY, OR JONES WILL BE ACCEPTED										

ELECTRIC WATER COOLER SCHEDULE

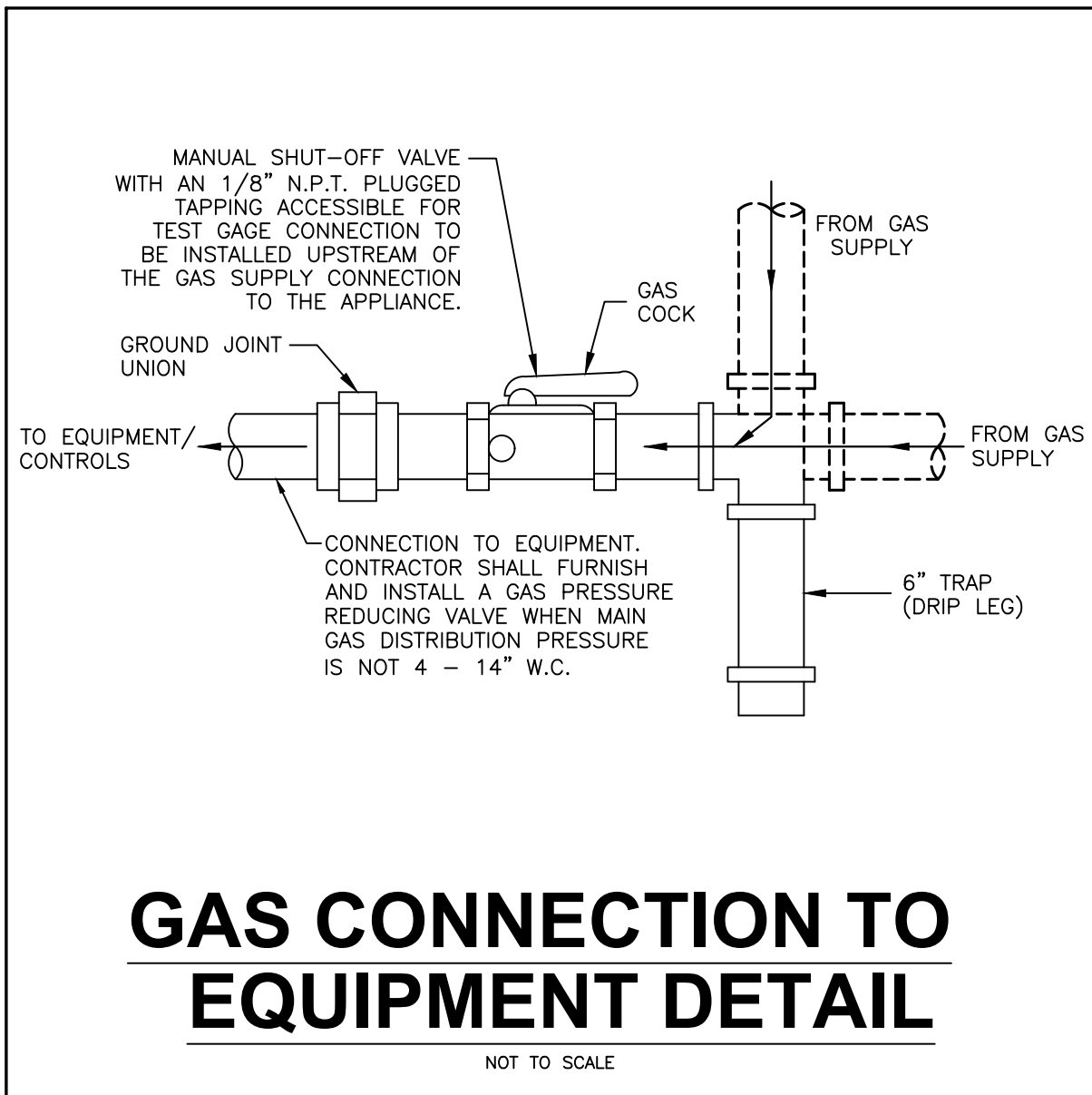
MARK NO.	FIXTURE TYPE	MANUFACTURER'S MODEL NO.	MOUNT	MOUNT HEIGHT	WASTE SIZE	VENT SIZE	C.W. SIZE	NOTES
EW-1	ELECTRIC WATER COOLER, ADA SPLIT LEVEL	ELKAY MODEL NO. EZSTLBSLXK OR APPROVED EQUAL	WALL	34-1/2" TO NOZ. CENTER	1-1/4"	1-1/4"	1/2"	ADA MOUNTED AT 34.5" AFF TO NOZZLE CENTERLINE, STAINLESS STEEL W/ TRIM BEZEL, WITH BOTTLE FILLING STATION, FILTER, MOUNTING KIT
EQUALS BY OASIS OR HAWES WILL BE ACCEPTED								

MIXING VALVE SCHEDULE

MARK NO.	MANUFACTURER'S MODEL NO.	TEMPERATURE (°F)	INLET	OUTLET
MV-1	POWERS SERIES LFLM495	SET AT 90°-110°	1/2"	1/2"
NOTES: 1. UNLESS OTHERWISE NOTED, MIXING VALVES SHALL CONFORM TO ASSE 1070 AND ASSE 1017.				



TYPICAL MIXING VALVE INSTALLATION



GAS CONNECTION TO EQUIPMENT DETAIL

PLUMBING LEGEND

SS	SANITARY SEWER	⊙	FLOOR DRAIN
CW	COLD WATER	⊙	HUB DRAIN
110°	110° HOT WATER	SV	BALL VALVE
140°	140° HOT WATER	⌘	GAS COCK
110°HWR	110° HOT WATER RETURN	⌘	RISER DOWN (ELBOW)
140°HWR	140° HOT WATER RETURN	⌘	RISER UP (ELBOW)
V	VENT	⌘	90° ELBOW
NG	NATURAL GAS	⌘	TEE
XSS	EXISTING SANITARY SEWER	⌘	CROSS
XCW	EXISTING COLD WATER	⌘	VENT THRU ROOF
XHW	EXISTING HOT WATER	⌘	CONNECT TO EXISTING
XNG	EXISTING NATURAL GAS	AAV	AIR ADMITTANCE VALVE (SBCCI APPROVED)

PVC PIPE HANGER SPACING GUIDE

PVC PIPE SUPPORTS - SCHEDULE 40 MAXIMUM SUPPORT SPACING (FEET)				
NPS (INCHES)	OPERATING TEMPERATURE (°F)			
	60	100	140	
1/2	4.5	4	2.5	
3/4	5	4	2.5	
1	5.5	4.5	2.5	
1-1/4	5.5	5	3	
1-1/2	6	5	3	
2	6	5	3	
3	7	6	3.5	
4	7.5	6.5	4	
6	8.5	7.5	4.5	
8	9	8	4.5	
PVC PIPE SUPPORTS - SCHEDULE 80 MAXIMUM SUPPORT SPACING (FEET)				
NPS (INCHES)	OPERATING TEMPERATURE (°F)			
	60	100	140	
1/2	5	4.5	2.5	
3/4	5.5	4.5	2.5	
1	6	5	3	
1-1/2	6.5	5.5	3.5	
2	7	6	3.5	
3	8	7	4	
4	9	7.5	4.5	
6	10	9	5	
8	11	9.5	5.5	
NOTE: PLASTIC PIPE SUPPORTS SHALL BE AS NOTED ABOVE UNLESS MANUFACTURER'S RECOMMENDATION IS MORE STRINGENT FOR THE APPLICATION.				

CODES AND STANDARDS

- 2015 INTERNATIONAL PLUMBING CODE
- 2015 INTERNATIONAL MECHANICAL CODE
- 2015 INTERNATIONAL FUEL GAS CODE
- 2015 INTERNATIONAL FIRE CODE
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- 2015 EXISTING BUILDING CODE

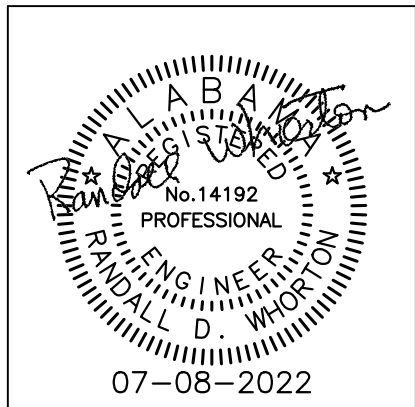
PLUMBING DRAWING INDEX

SHEET NO.	SHEET TITLE
P1.1	PLUMBING SCHEDULES, LEGEND, NOTES AND DETAILS
P2.1	PLUMBING DEMOLITION PLAN
P3.1	PLUMBING PLANS
P4.1	ROOF PLUMBING PLAN



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ADDITION AND RENOVATIONS TO CAFETERIA AT
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106 BRECON ACCESS ROAD, TALLADEGA, AL 35160
TALLADEGA CITY BOARD OF EDUCATION



SHEET TITLE:
PLUMBING
SCHEDULES, LEGEND,
NOTES AND DETAILS

PROJ. MGR.: RDW
DRAWN: RDW
DATE: JULY 8, 2022
REVISIONS

JOB NO. 22-10
SHEET NO:
P1.1
1 OF 4
0 1" 2"

PLUMBING SCHEDULES, LEGEND, NOTES AND DETAILS

NOT TO SCALE

WHORTON ENGINEERING, INC.

HVAC - PLUMBING - PROCESS CONTROL

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25 SUMMERALL GATE ROAD
ANNISTON, ALABAMA 36205

WHORTON ENGINEERING PROJECT NO. 22147



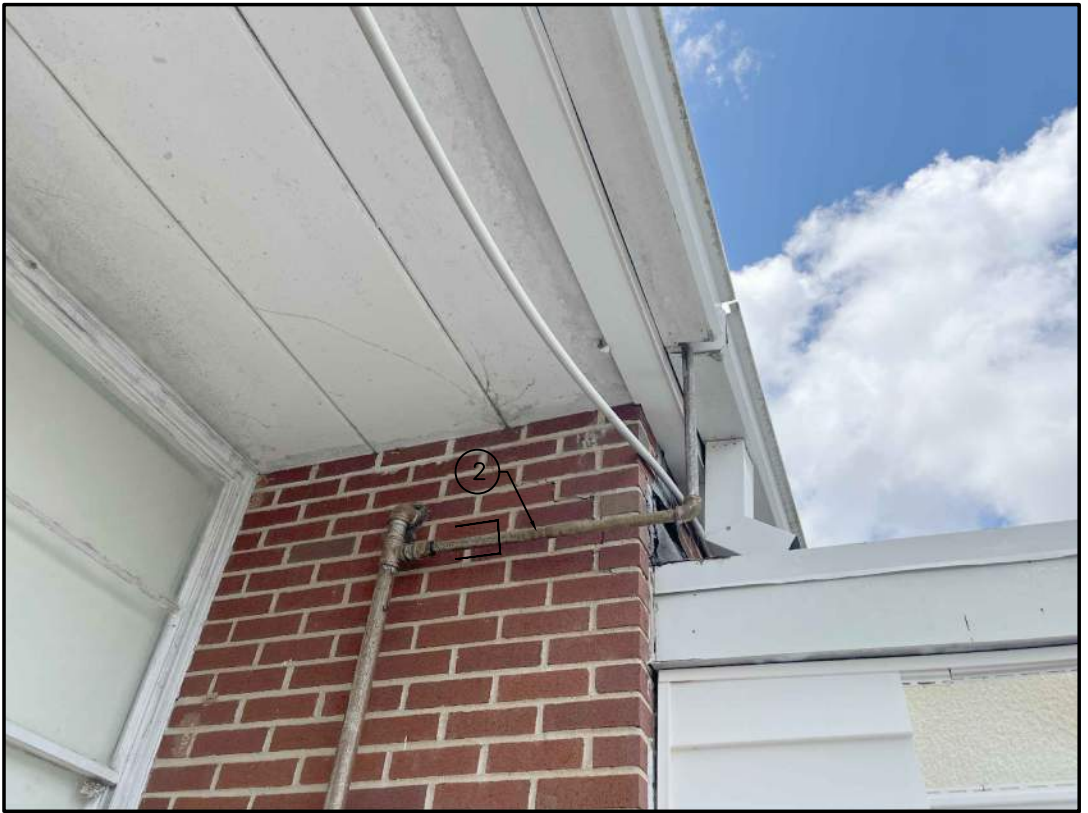
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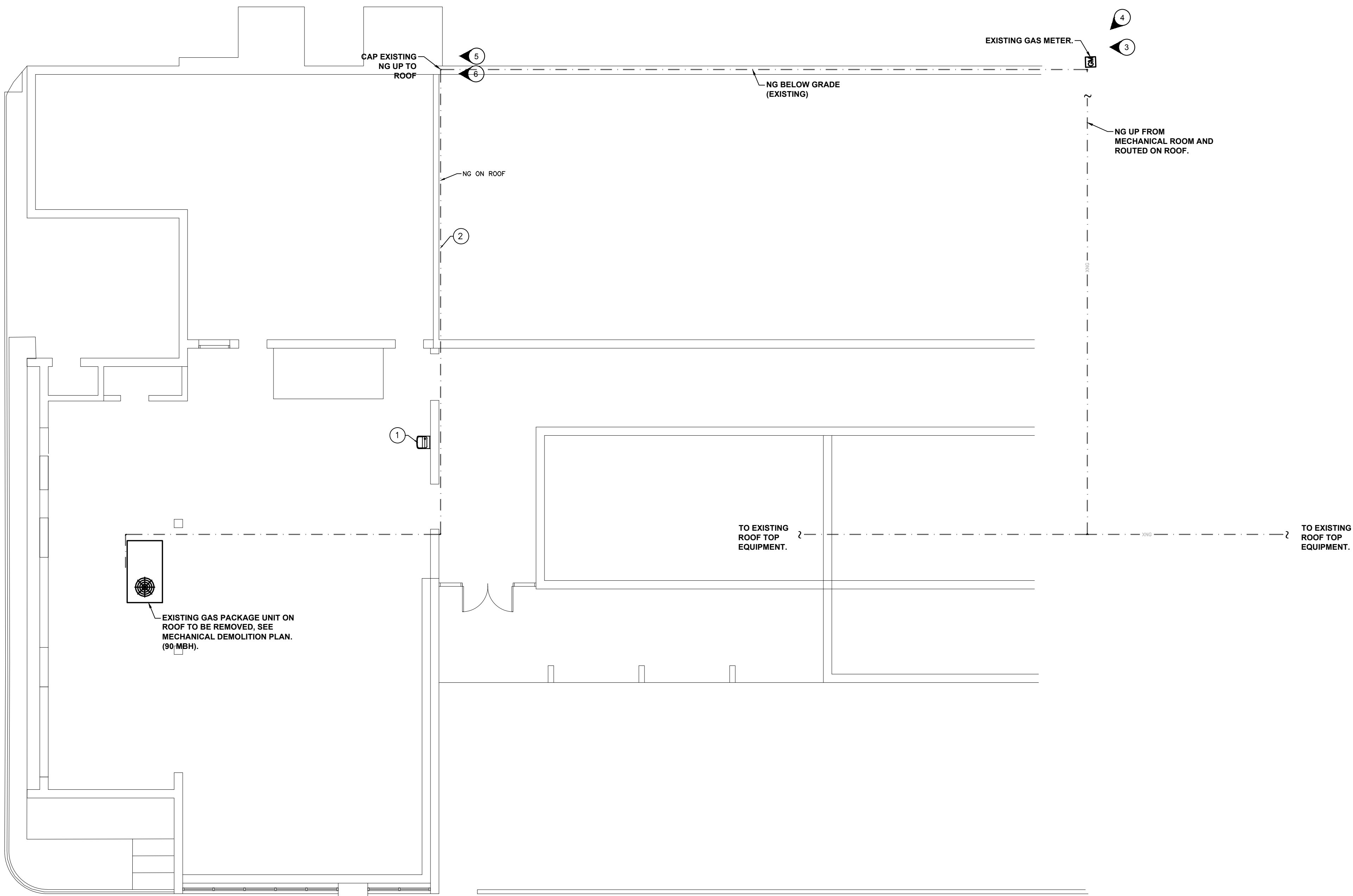
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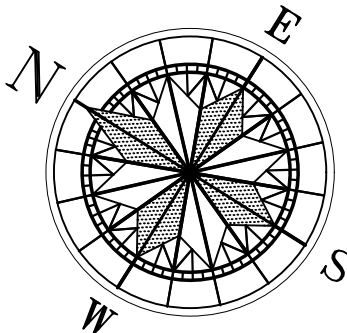
DEMOLITION NOTES

- 1. REMOVE EXISTING ELECTRIC WATER COOLER AND ALL ASSOCIATED WASTE, WATER, GAS, AND/OR VENT PIPING, NOT USED IN RENOVATION. CAP ANY REMAINING UN-USED PIPING BENEATH FINISHED SURFACES.
- 2. CAP GAS PIPING SERVING EXISTING EQUIPMENT TO BE REMOVED ON ROOF.

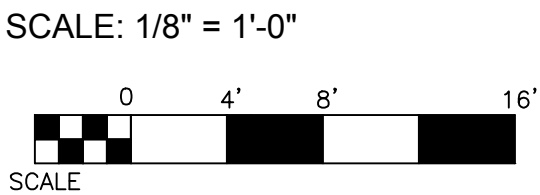
VERIFY DISPOSAL OF EXISTING EQUIPMENT WITH OWNER

GENERAL:

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND EQUIPMENT PRIOR TO BIDDING. THIS SHALL INCLUDE ALL ITEMS TO BE REMOVED OR RELOCATED, ALL ELECTRICAL, ALL REFRIGERANT PIPING, CONTROLS, ETC.
2. PATCH/REPAIR ALL OPENINGS LEFT ABANDONED DUE TO THE REMOVAL OF ALL EQUIPMENT (UNIT, DUCT, PIPING, ELECTRICAL, ETC.) PATCH/REPAIR ALL SURFACES TO MATCH EXISTING.
3. VERIFY DISPOSITION OF ALL EQUIPMENT WITH OWNER. INCLUDE ALL COSTS ASSOCIATED WITH COMPLETE REMOVAL AND DISPOSAL IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REGULATIONS.
4. REPAIR/REPLACE ANY EXISTING EQUIPMENT DAMAGED DURING DEMOLITION.
5. PATCH/REPAIR WALLS, FLOOR, CEILING, ETC. TO MATCH EXISTING.
6. PROTECT ALL EXISTING BUILDINGS AND WORK TO REMAIN, INCLUDING ALL EXISTING STRUCTURE, FINISHES, AND MATERIALS AT ALL TIMES FROM DAMAGE DUE TO WORK UNDER THIS CONTRACT OR FROM DAMAGE DUE TO EXPOSURE TO THE ELEMENTS. ANY SUCH DAMAGE WILL BE REPAIRED, PATCHED, OR REPLACED TO MATCH ORIGINAL EXISTING CONDITION.
7. TEMPORARILY REMOVE EXISTING ITEMS TO REMAIN IF REQUIRED TO PROPERLY INSTALL NEW WORK. UPON COMPLETION OF DEMOLITION OR NEW WORK, RE-INSTALL SUCH REMOVED ITEMS TO MATCH ORIGINAL EXISTING CONDITION.
8. ALL BIDDERS SHALL VISIT THE JOB SITE PRIOR TO SUBMITTING A BID TO DETERMINE THE TOTAL SCOPE OF WORK, AND TO COMPLETELY FAMILIARIZE THEMSELVES WITH THE PROJECT, INCLUDING ALL EXISTING CONDITIONS, BUILDINGS, STRUCTURE, FINISHES, AND MATERIALS IN ALL AREAS AFFECTED BY WORK UNDER THIS CONTRACT.



PLUMBING DEMOLITION PLAN

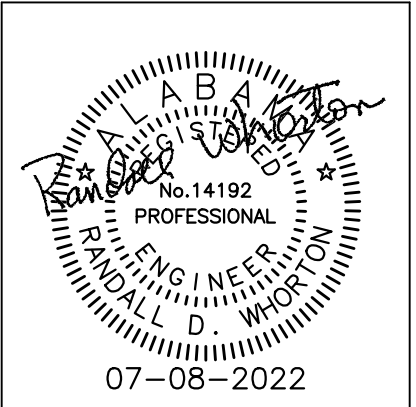


WHORTON ENGINEERING, INC.

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PHONE: (256) 820-9897 ANNISTON, ALABAMA 36205

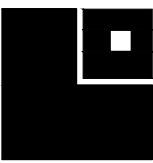
WHORTON ENGINEERING PROJECT NO. 22147



SHEET TITLE:
PLUMBING
DEMOLITION PLAN

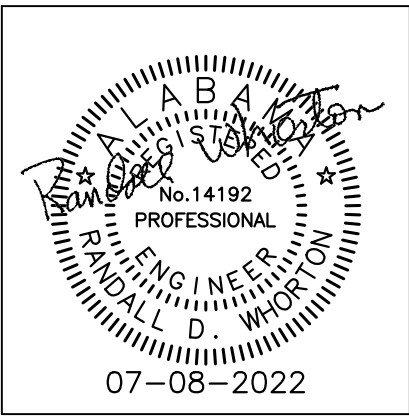
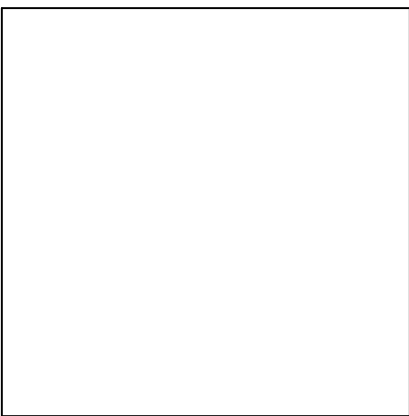
PROJ. MGR.: RDW
DRAWN: RLJ
DATE: JULY 8, 2022
REVISIONS

JOB NO. 22-10
SHEET NO:
P2.1
2 OF 4
0 1" 2"



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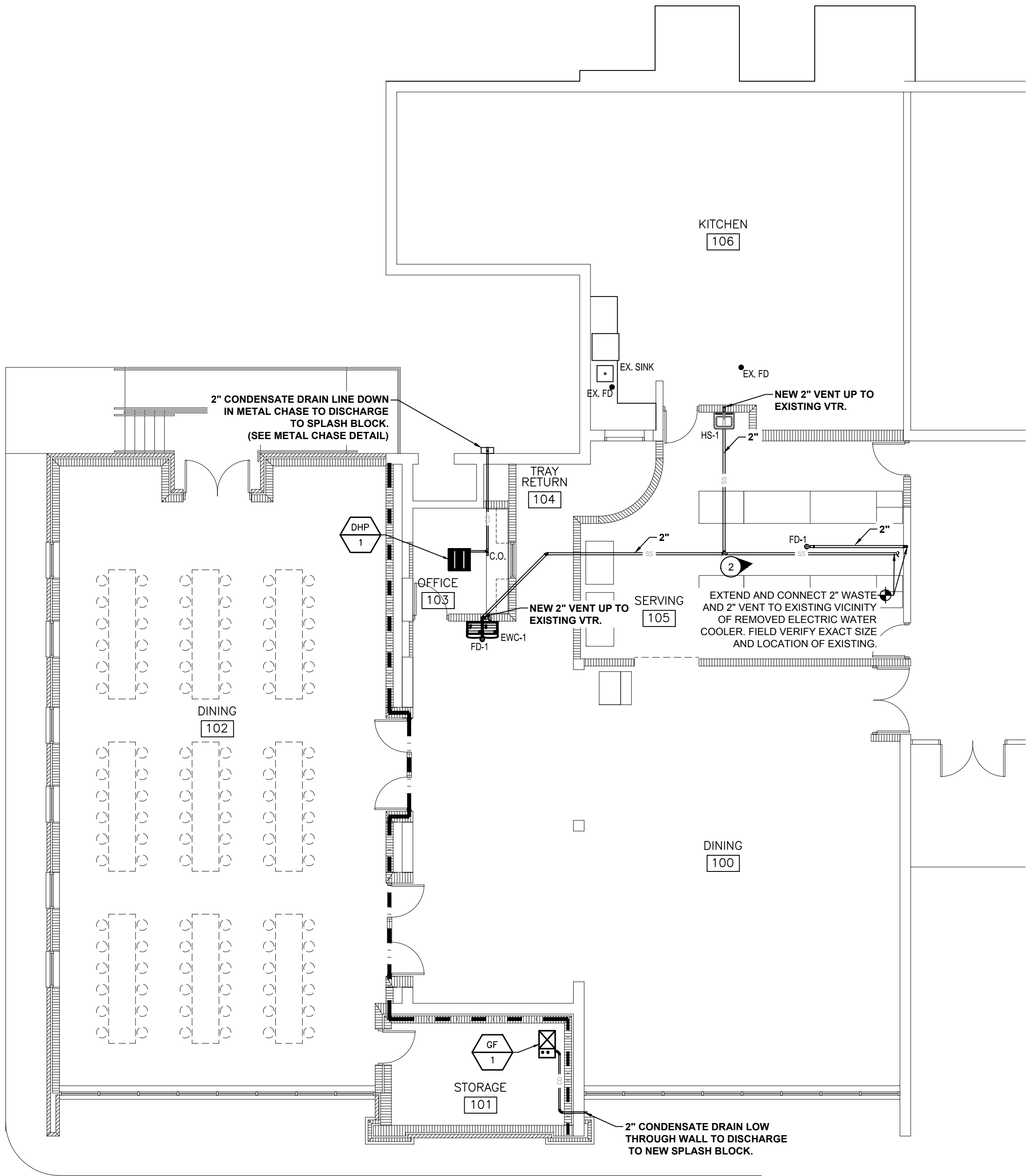
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TALLADEGA CITY BOARD OF EDUCATION



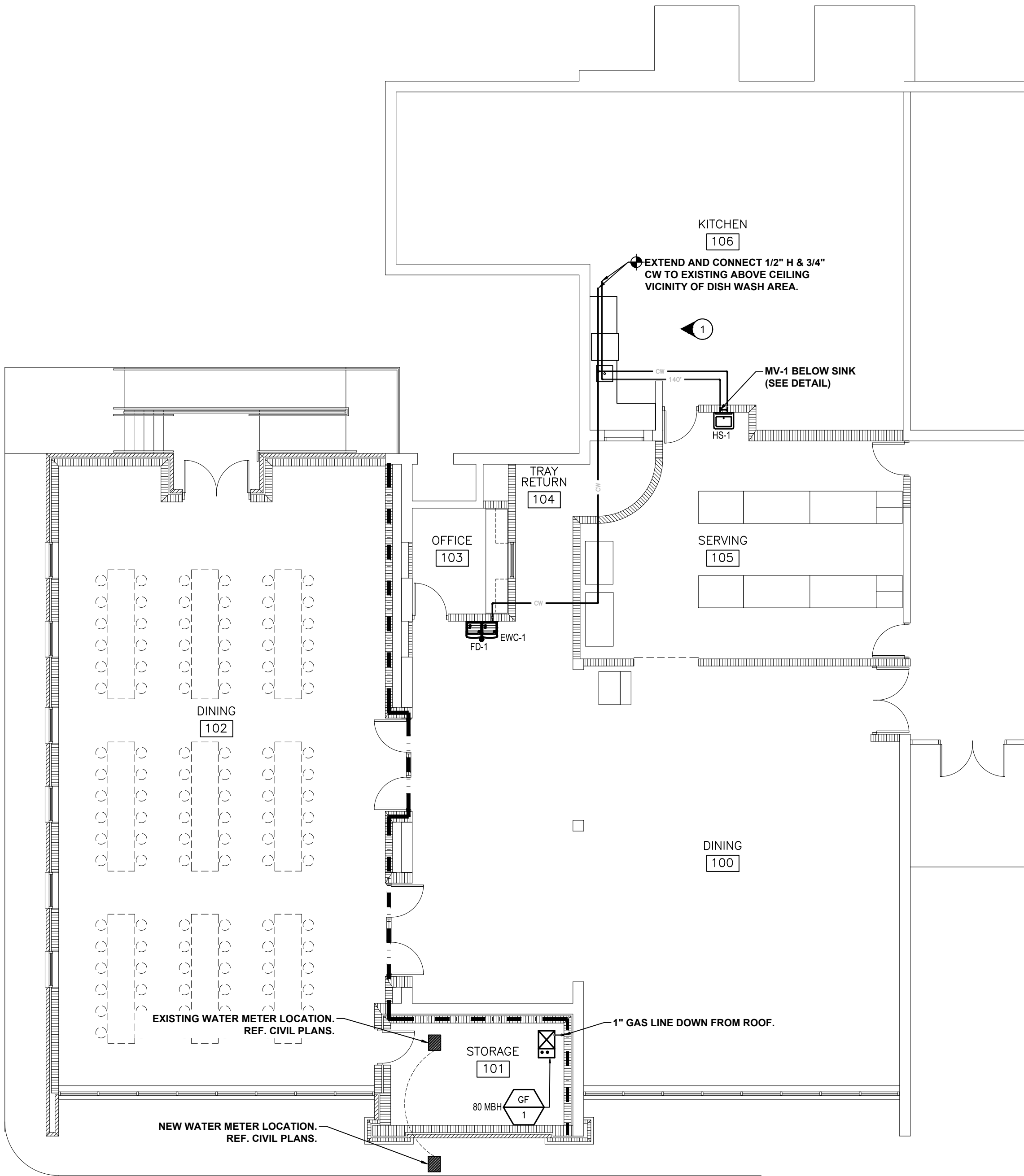
SHEET TITLE:
PLUMBING PLANS

PROJ. MGR.: **RDW**
DRAWN: **RLJ**
DATE: **JULY 8, 2022**
REVISIONS

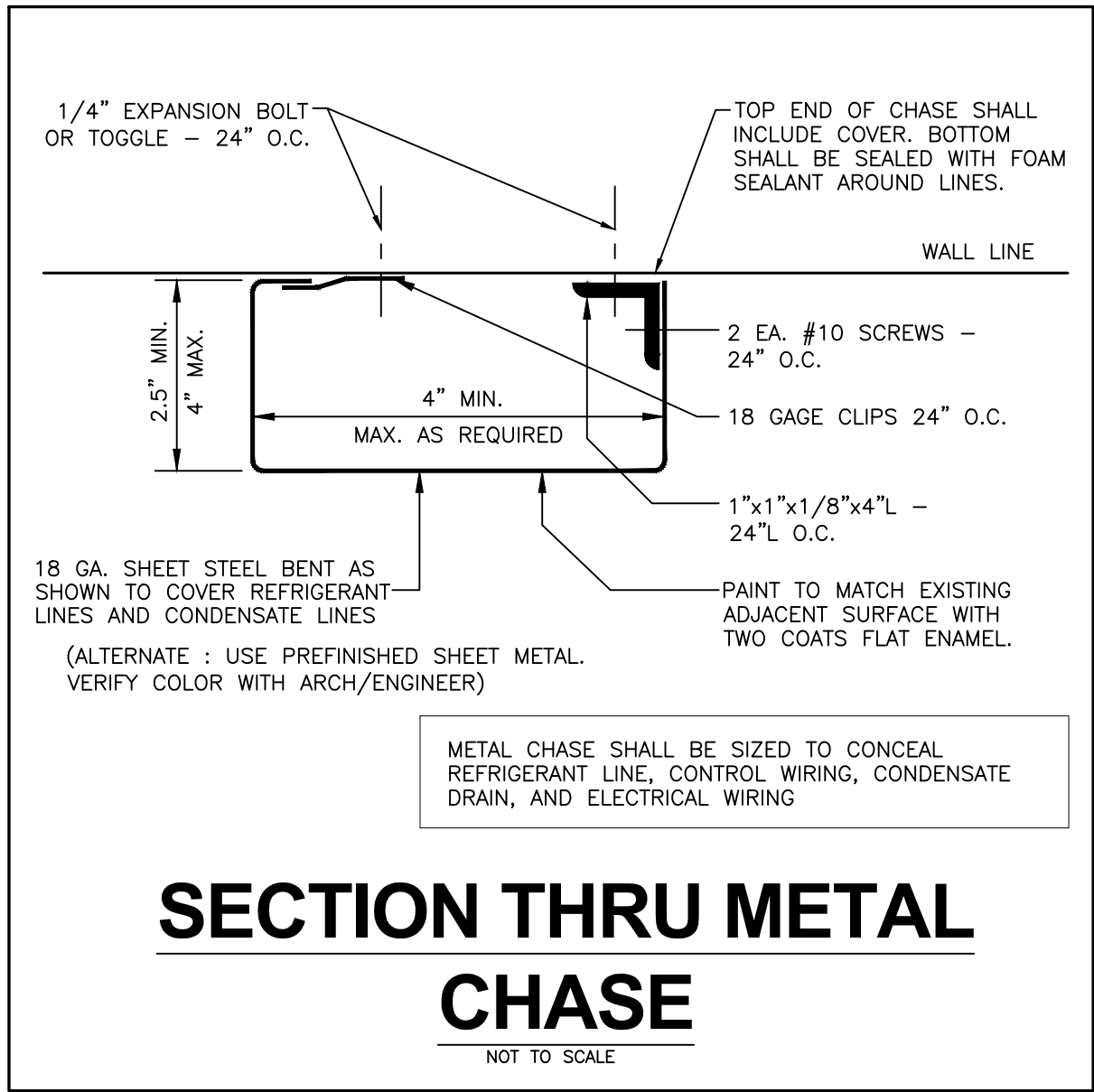
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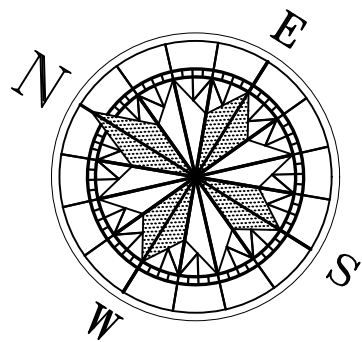
WASTE AND CONDENSATE PLUMBING PLAN



WATER AND GAS PLUMBING PLAN

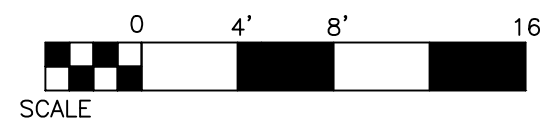


SECTION THRU METAL CHASE
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PLUMBING PLANS

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

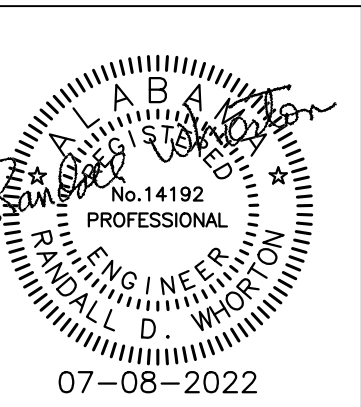


FIRE WALL LEGEND
2 HOUR WALL

WHORTON ENGINEERING, INC.
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WHORTON ENGINEERING PROJECT NO. 22147



SALTER ELEMENTARY SCHOOL
106 BRECON ACCESS ROAD, TALLADEGA, AL 35160
TALLADEGA CITY BOARD OF EDUCATION



SHEET TITLE:
ROOF PLUMBING
PLAN

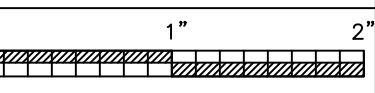
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RAWN:	RLJ
DATE:	JULY 8, 2022
REVISIONS	

OB NO. 22-10

SHEET NO:

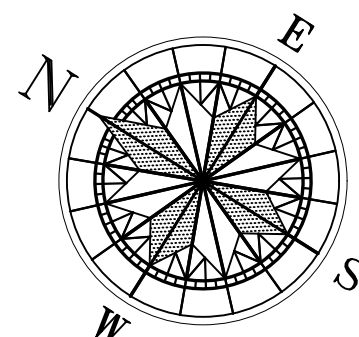
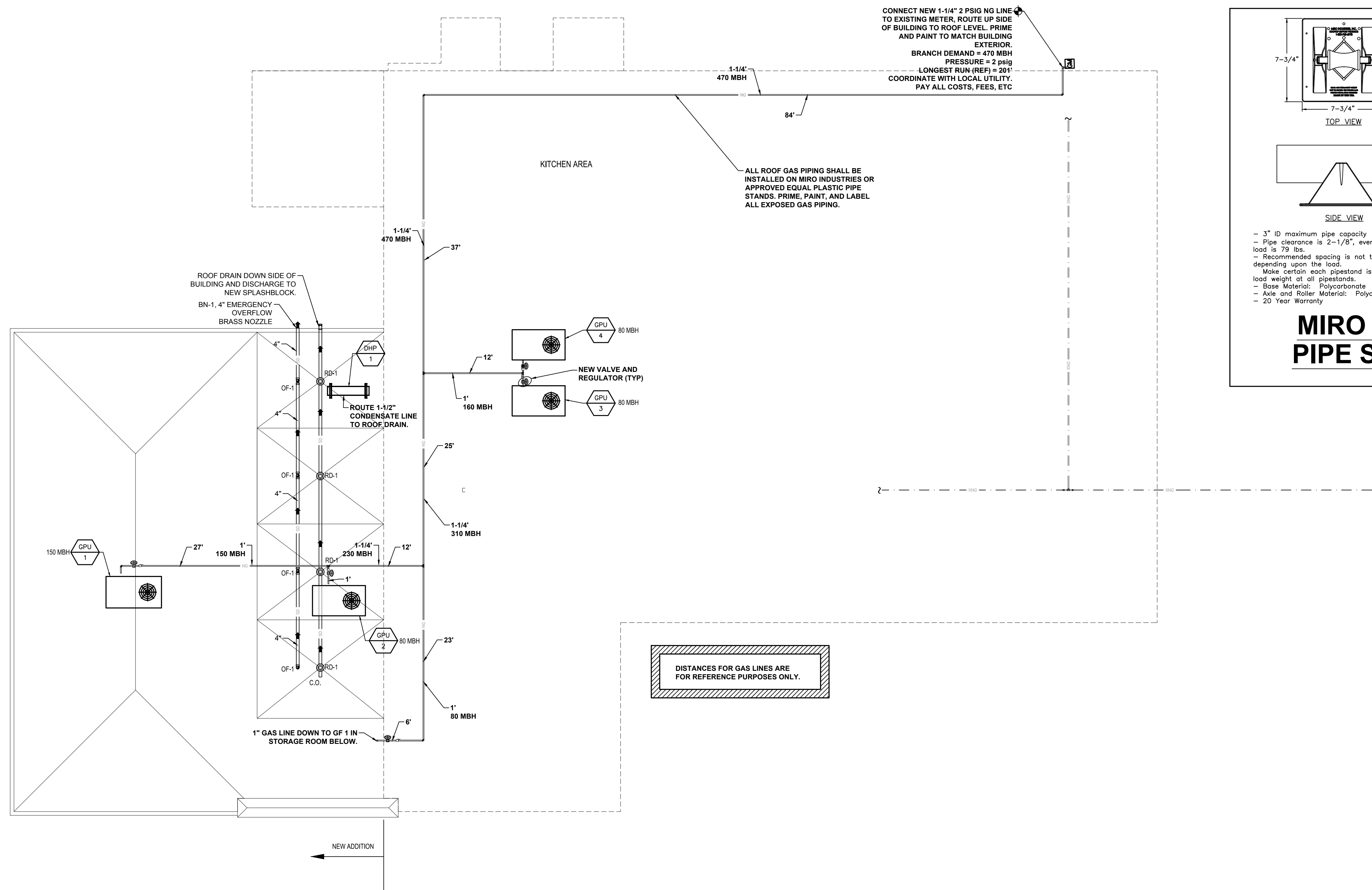
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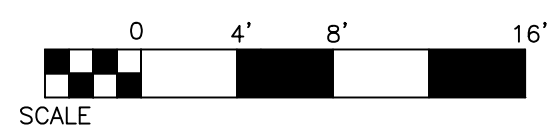
MARK NO.	MANUFACTURER'S MODEL NO.	SIZE	NOTES
RD-1	ZURN MODEL NO. Z-100 OR APPROVED EQUAL	4" DIA	UNDERDECK ROOF CLAMP - ALTERNATE: MIFAB MODEL NO. R1200
BN-1	ZURN MODEL NO. ZANB-199 OR APPROVED EQUAL	4" DIA	BRONZE NOZZLE DOWNSPOUT - ALTERNATE: MIFAB MODEL NO. R1946
OF-1	ZURN MODEL NO. Z-100 OR APPROVED EQUAL	4" DIA	UNDERDECK ROOF CLAMP - ALTERNATE: MIFAB MODEL NO. R1200

-
- TOP VIEW**
- 7'-3/4"
- 7'-3/4"
- ISOMETRIC VIEW**
- 3" SCH 40 PIPE
ILLUSTRATION ONLY
- 3-R-2 PIPE GUIDE
ACCESSORY ITEM
- SIDE VIEW**
- 2'-1/8"
- 2"
- END VIEW**
- 3R SPACER
ACCESSORY ITEM
- 3" ID maximum pipe capacity 3-3/4" OD maximum.
 - Pipe clearance is 2-1/8", even load required, maximum load is 79 lbs.
 - Recommended spacing is not to exceed 7 feet centers depending upon the load.
 - Make certain each pipestand is properly elevated to even load weight at all pipestands.
 - Base Material: Polycarbonate
 - Axle and Roller Material: Polycarbonate
 - 20 Year Warranty
- # MIRO INDUSTRIES PIPE STAND DETAIL
- NOT TO SCALE



ROOF PLUMBING PLAN

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



WHORTON ENGINEERING, INC.

HVAC – PLUMBING – PROCESS CONTROL

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ANNISTON, ALABAMA 36205

WHORTON ENGINEERING PROJECT NO. 22147

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER	CATALOG NO.	LAMPS			MOUNTING HEIGHT	TYPE MOUNTING	RECESS DEPTH	REMARKS
			NO.	WATTS	TYPE				
A	METALUX	24CGT5535C	FURNISHED WITH FIXTURE			CEILING	RECESSED	2-1/8"	
A (EM)	METALUX	24CGT5535C-EL14W	FURNISHED WITH FIXTURE			CEILING	RECESSED	2-1/8"	SEE NOTE 1
B	METALUX	24CGT4535C	FURNISHED WITH FIXTURE			CEILING	RECESSED	2-1/8"	
B (EM)	METALUX	24CGT4535C-EL14W	FURNISHED WITH FIXTURE			CEILING	RECESSED	2-1/8"	SEE NOTE 1
C (EM)	PATHWAY LIGHTING	6VLF12X-3000-35K-DA-6VLEDM0-SCLPF-EM	FURNISHED WITH FIXTURE			CEILING	RECESSED	6"	SEE NOTE 1
D	METALUX	ISW-E02-LED-E1-BL4-BZ-TR	FURNISHED WITH FIXTURE			+9'	BRACKET		
D (EM)	METALUX	ISW-E02-LED-E1-BL4-BZ-TR-BBB	FURNISHED WITH FIXTURE			+9'	BRACKET		SEE NOTE 1
X	SURE-LITES	LPX-7-G-120	FURNISHED WITH FIXTURE			CEILING ABOVE DOOR	BRACKET		

NOTES:

1. FEED ALL "EM" FIXTURES WITH SWITCHED AND UNSWITCHED HOT LEGS. UNSWITCHED HOT LEG IS USED FOR VOLTAGE SENSING.
2. VERIFY ALL FIXTURE COLORS WITH ARCHITECT PRIOR TO SUBMITTALS.
3. EQUAL FIXTURES BY LITHONIA, LUMAX, AND COLUMBIA WILL BE CONSIDERED APPROVED EQUALS.

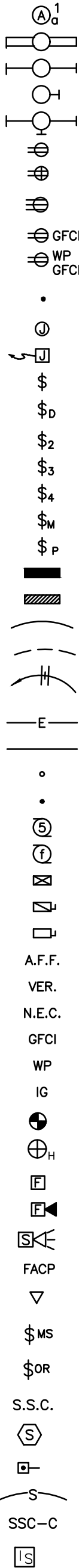
GENERAL NOTES

1. SERVICE TO BUILDING IS 120/240 VOLTS, 3 PHASE, 4 WIRE.
2. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL DRAWINGS BEFORE ROUGHING IN SWITCHES.
3. VERIFY EXACT LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE ROUGHING IN.
4. CONTRACTOR TO VERIFY LOCATION OF ALL OUTLETS PRIOR TO INSTALLATION.
5. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF COUNTERTOPS AND BACKSPLASHES ON ARCHITECTURAL DETAILS AND/OR CASEWORK SHOP DRAWINGS AND ADJUST SPECIFIED MOUNTING HEIGHT OF WALL OUTLETS AS REQUIRED TO AVOID CONFLICTS.
6. CONTRACTOR WILL CHECK ALL LIGHTING FIXTURES FOR EXACT TYPE MOUNTING AND SPACE REQUIRED BEFORE ROUGHING IN.
7. FURNISH AND INSTALL PLASTER FRAMES FOR ALL RECESSED FIXTURES AS REQUIRED.
8. SUPPORT OF ALL LIGHTING FIXTURES TO BE THE RESPONSIBILITY OF THIS CONTRACTOR. FIXTURES TO BE SUPPORTED INDEPENDENT OF CEILING FROM STRUCTURAL MEMBERS OF THE BUILDING.
9. ELECTRICAL CONTRACTOR MUST CHECK THE CORRESPONDING MECHANICAL SHEETS AND BE RESPONSIBLE FOR INCLUDING PROPER SERVICE AND CONNECTIONS TO ALL MECHANICAL ITEMS SHOWN THEREON REGARDLESS OF ITS BEING OR NOT BEING SHOWN ON ELECTRICAL SHEETS.
10. ALL CONDUIT CONCEALED UNLESS SPECIFICALLY SHOWN EXPOSED.
11. COORDINATE SERVICES WITH POWER AND COMMUNICATIONS COMPANIES. REMOVE OR RELOCATE ALL POWER AND COMMUNICATIONS CIRCUITS ABOVE OR BELOW GRADE THAT WOULD OBSTRUCT THE CONSTRUCTION OF THE PROJECT OR CONFLICT IN ANY MANNER WITH COMPLETION OF THE PROJECT OR ANY CODE PERTAINING THERETO. IF UTILITY COMPANY REQUIREMENTS ARE AT VARIANCE WITH THESE DRAWINGS AND SPECIFICATIONS, THE CONTRACT PRICE SHALL INCLUDE THE ADDITIONAL COST.
12. IT IS INTENDED THAT SPECIFICATIONS AND PLANS SHALL INCLUDE EVERYTHING REQUIRED AND NECESSARY FOR PROPER AND COMPLETE INSTALLATION OF THE COMPLETE SYSTEMS SHOWN EVEN THOUGH EVERY ITEM MAY NOT BE PARTICULARLY MENTIONED IN DETAIL. THE CONTRACTOR SHALL DELIVER TO OTHER TRADES ANY EQUIPMENT THAT MUST BE INSTALLED DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD MEASUREMENTS AND COORDINATION OF THE PHYSICAL SIZE OF ALL EQUIPMENT WITH THE ARCHITECTURAL REQUIREMENTS OF THE SPACES INTO WHICH THE EQUIPMENT WILL BE INSTALLED.
13. THIS CONTRACTOR SHALL INSTALL EQUIPMENT GROUNDS THROUGHOUT THIS PROJECT, USING GREEN INSULATED GROUND WIRE. USE OF CONDUIT AS THE ONLY GROUND CONDUCTOR WILL NOT BE ALLOWED. (SIZE GROUND WIRES PER N.E.C.)
14. REMOVE ALL EXISTING PANELBOARDS, DISCONNECTS, FIXTURES, RECEPTACLES, AUXILIARY SYSTEM DEVICES, CONDUIT, CONDUCTORS, ETC. BEING RENDERED OBSOLETE BY THIS PROJECT.
15. WHERE EXISTING REMAINING CIRCUITS ARE BEING INTERRUPTED DUE TO STRUCTURAL AND/OR DESIGN CHANGES, THIS CONTRACTOR WILL EXTEND EXISTING CIRCUITS AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY TO REMAINING ACTIVE DEVICES.

FIRE ALARM SYSTEM NOTES

1. PROVIDE FIRE ALARM COMPLETION DOCUMENTS AT THE STATE FINAL INSPECTION. THIS ITEM WILL BE REQUIRED BY STATE BUILDING INSPECTOR AT THE TIME OF FINAL INSPECTION (OLD CERTIFICATION FORM).
2. ADDITIONS AND ALTERATIONS TO THE FIRE ALARM SYSTEM REQUIRE TESTING, A RECORD OF COMPLETION, AND RECERTIFICATION. ALL FIRE ALARM WORK SHALL BE PERFORMED BY QUALIFIED PERSONNEL AS DEFINED IN NFFA-72 (2013) 10.4.2, 10.5.2, AND 10.18.1.
3. ALL WORK SHALL BE PERFORMED BY A CERTIFIED FIRE ALARM CONTRACTOR – SEE SPECS.

ELECTRICAL SYMBOLS



CEILING OUTLET – FIXTURE "A", CIRCUIT 1, SWITCH 1.

CEILING OUTLET – FLUORESCENT FIXTURE.

CEILING OUTLET – FLUORESCENT INDUSTRIAL OR STRIP TYPE.

WALL OUTLET – INCANDESCENT BRACKET TYPE.

WALL OUTLET – FLUORESCENT BRACKET TYPE.

WALL OUTLET – DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT5362A-GRY WITH PT6STR PLUG TAIL CONNECTOR.

WALL OUTLET – DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT5362A-GRY WITH PT6STR PLUG TAIL CONNECTOR – MOUNT AT 6" ABOVE COUNTER.

WALL OUTLET – SINGLE OUTLET, 30A, 125/250V, 4W, HUBBELL #HBL9430A RECEPTACLE.

WALL OUTLET – DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT2095-GRY WITH PT6STR PLUG TAIL CONNECTOR.

WALL OUTLET – DUPLEX OUTLET, 20A, 125V, GROUNDED, WEATHERPROOF, PASS & SEYMOUR PT2095-GRY WITH PT6STR PLUG TAIL CONNECTOR. INSTALL #WUC10-CAGV WEATHERPROOF COVER.

FLOOR OUTLET – CONDUIT STUB UP.

CEILING OUTLET – JUNCTION BOX.

WALL OUTLET – JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT.

SWITCH OUTLET – AC TYPE, SINGLE POLE, 20A, 120/277V, HUBBELL #1221 – GREY.(“N” DENOTES NARROW)

SWITCH OUTLET – FLUORESCENT DIMMER – LUTRON NOVA-T SERIES #NTF-103P.

SWITCH OUTLET – AC TYPE, TWO POLE, 20A, 120/277V, HUBBELL #1222 – GREY.

SWITCH OUTLET – AC TYPE, THREE WAY, 20A, 120/277V, HUBBELL #1223 – GREY.

SWITCH OUTLET – AC TYPE, FOUR WAY, 20A, 120/277V, HUBBELL #1224 – GREY.

SWITCH MANUAL MOTOR STARTER, SINGLE POLE WITH OVERLOAD PROTECTION.

SWITCH OUTLET – AC TYPE, SINGLE POLE, 20A, 120/277V, HUBBELL #12211LC.

LIGHTING PANEL – SEE SPECIFICATIONS AND SCHEDULE.

POWER PANELS – SEE SPECIFICATIONS AND SCHEDULE.

BRANCH CIRCUIT CONCEALED IN WALL OR CEILING.

BRANCH CIRCUIT CONCEALED IN FLOOR OR GROUND.

HOMERUN TO PANELBOARD – ANY CIRCUIT WITHOUT FURTHER DESIGNATION 2 # 12 & 1 # 12(G) – 1/2" CONDUIT.

3 # 12 & 1 # 12(G) – 3/4" CONDUIT.

4 # 12 & 1 # 12(G) – 3/4" CONDUIT.

EMPTY CONDUIT – 3/4".

BRANCH CIRCUIT EXPOSED.

CONDUIT RUN DOWN WALLS, CONCEALED

CONDUIT RUN UP WALLS, CONCEALED

MOTOR SHOWN 5hp (TYPICAL) OR 40 AMPS (TYPICAL).

EXHAUST FAN MOTOR – FRACTIONAL HORSEPOWER.

MAGNETIC MOTOR STARTER.

NON-FUSED DISCONNECT SWITCH. (RT – RAINTIGHT).

FUSED DISCONNECT SWITCH.

ABOVE FINISHED FLOOR.

VERIFY LOCATION.

NATIONAL ELECTRICAL CODE.

GROUND FAULT CIRCUIT INTERRUPTER

WEATHER PROOF

ISOLATED GROUND

FIRE ALARM – SMOKE DETECTOR – SEE SPEC.

FIRE ALARM – HEAT DETECTOR – SEE SPEC.

FIRE ALARM – MANUAL PULL STATION – SEE SPEC.

FIRE ALARM – STROBE LIGHT – SEE SPEC.

FIRE ALARM – SPEAKER STROBE – SEE SPEC.

FIRE ALARM CONTROL PANEL – EXISTING – SEE SPEC.

COMPUTER OUTLET – 3/4" CONDUIT WITH CABLING-SEE SPEC.

WALL SWITCH WITH BUILT IN MOTION SENSOR – COOPER #OSW-P-0451-W WITH WALL PLATE

LIGHTING CONTROL PANEL OVERRIDE SWITCH – DIGITA 5-1B

MASTER INTERCOM SOUND CONSOLE – EXISTING – SEE SPEC.

SOUND SYSTEM – CAFETERIA SYSTEM SPEAKER – SEE SPEC.

SOUND SYSTEM – CALL-IN SWITCH – SEE SPEC.

SOUND SYSTEM – WIRING – SEE SPEC.

CAFETERIA SOUND CONSOLE – SEE SPEC.

INTERCOM SOUND SYSTEM – CEILING SPEAKER – SEE SPEC.

COLOR CODE FOR JUNCTION BOXES

NOTE: PAINT ALL JUNCTION BOXES AND COVERS WITH COLORS AS SHOWN BELOW. PAINTING COVERS ONLY IS NOT ACCEPTABLE.

FUNCTION:

LIGHTING

POWER

FIRE ALARM

COLOR:

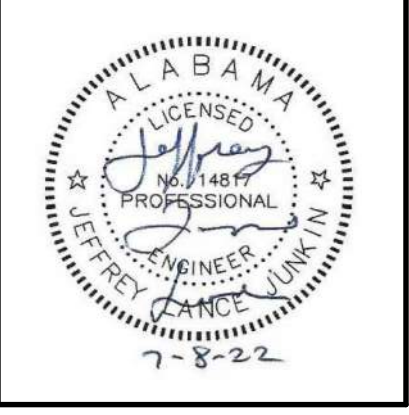
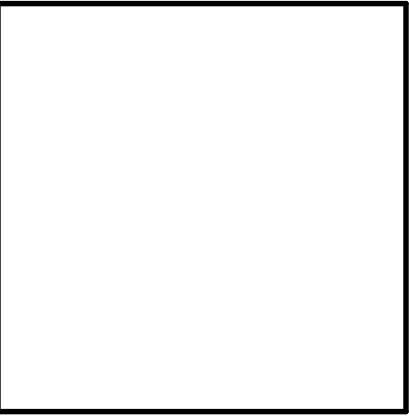
BLUE

GREEN

RED

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Engineer: J. Lance Junkin, P.E. Alabama Reg. 14817	Project Number: 2285

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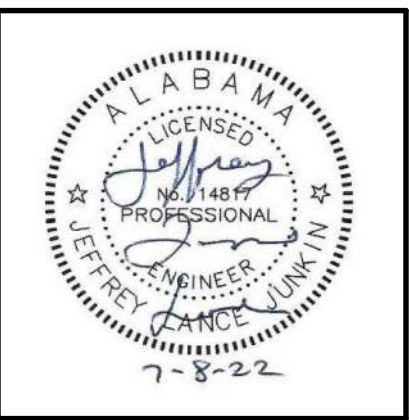


SHEET TITLE:

SCHEDULES, SYMBOLS,
AND NOTES

PROJ. MGR.: LANCE JUNKIN
DRAWN: SEC
DATE: JULY 8, 2022
REVISIONS

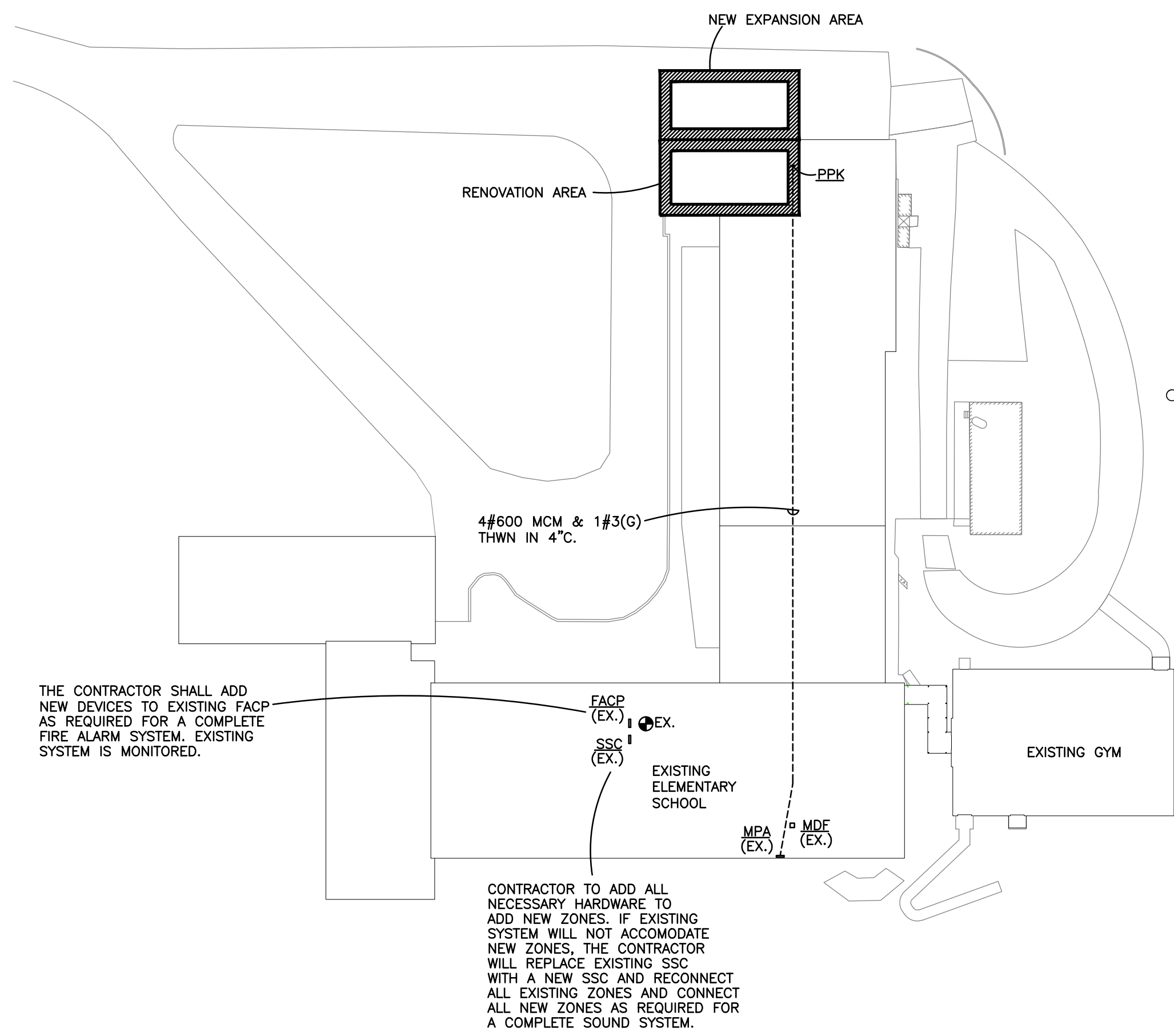
JOB NO.	22-10
SHEET NO:	E1.1
1 OF 5	
0 1" 2'	



SHEET TITLE:
MASTER PLAN AND
SINGLE LINE DIAGRAM

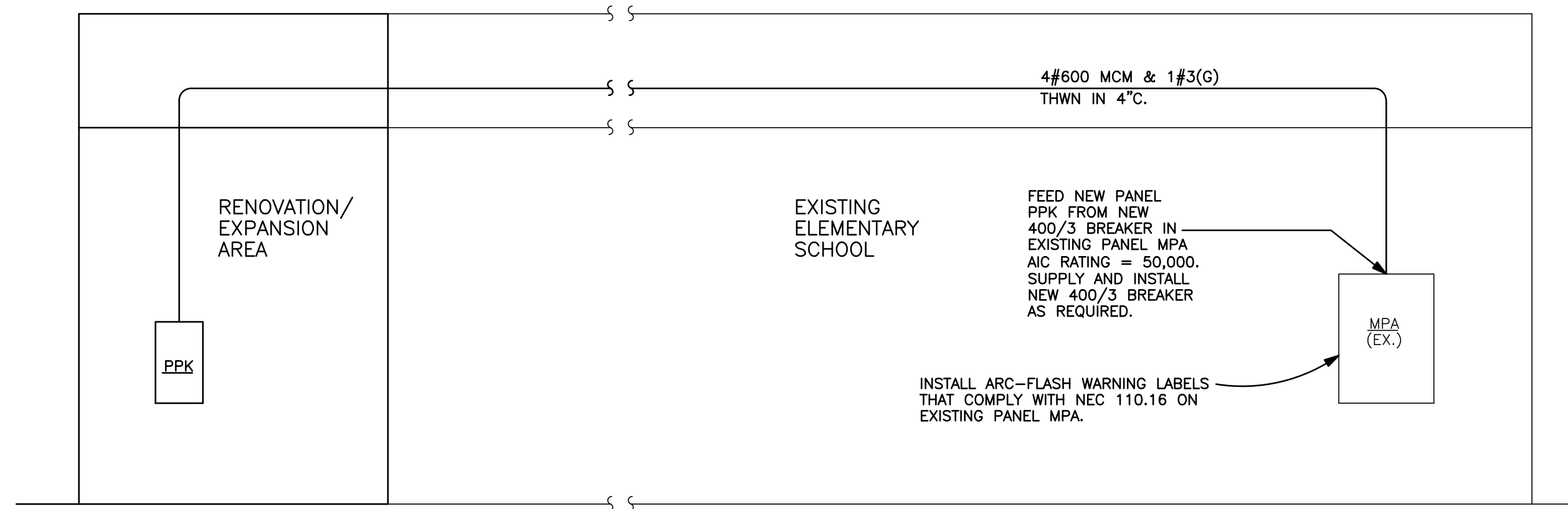
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JOB NO. 22-10
SHEET NO:
E2.1
2 OF 5
0 1" 2'



MASTER PLAN

SCALE: 1" = 50'



ELECTRICAL SINGLE LINE DIAGRAM

N.T.S.

PANELBOARD SCHEDULE

MARK	TYPE	MAINS			BRANCHES					LUG LOCATION	TYPE MOUNTING	AVAILABLE FAULT CURRENT	REMARKS
		TYPE	AMPS	SERVICE	1 POLE	2 POLE	3 POLE	SPARES	SPACES				
PPK	NQOD	LUGS	400	120/240V 3Ø, 4W	23-20	1-20 2-30(gfci)	1-30 1-35 2-40 1-50	6-20/1	4-1PS	TOP	RECESSED	10,000	SEE NOTES 1, 2, 3, & 4 54 SPACE PANEL

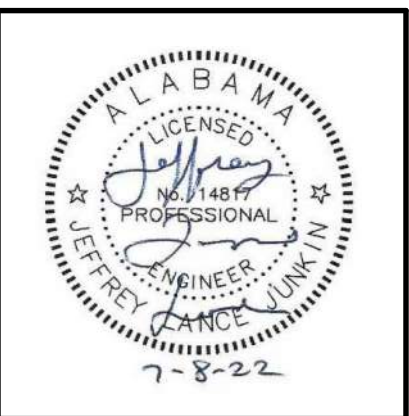
- NOTES:
- ALL PANELBOARDS SHALL BE CAPABLE OF WITHSTANDING AND INTERRUPTING THE AVAILABLE FAULT CURRENTS AS LISTED ABOVE.
 - ALL PANELBOARDS SHALL HAVE MICARTA LABELS SHOWING PANELBOARD DESIGNATION, AND OPERATING VOLTAGE. I-LINE PANELBOARDS SHALL ALSO HAVE MICARTA LABELS AT EACH BREAKER.
 - NO SERIES RATING WILL BE ALLOWED ON ANY PANELBOARDS.
 - ON ALL RECESSED PANELBOARDS, CONTRACTOR SHALL STUB (5) EMPTY 3/4" CONDUITS TO ABOVE LAY-IN CEILING.
- PANELBOARD NOTES:
- MANUFACTURER OF SWITCHBOARDS AND/OR PANELBOARDS SHALL PERFORM FAULT CURRENT CALCULATIONS, COORDINATION STUDY, AND ARC FLASH HAZARD ANALYSIS, AND LABEL ALL PANELBOARDS, IN ACCORDANCE WITH NFPA 70E-2009 (ARTICLE 130) AND NFPA 70-2008 (ARTICLE 110.16).
 - CONTRACTOR SHALL FIELD MARK ELECTRICAL SERVICE EQUIPMENT WITH A CONSPICUOUS AND PERMANENT LABEL THAT INDICATES THE AVAILABLE FAULT CURRENT PER NEC 110.24.
 - CONTRACTOR SHALL FIELD MARK ELECTRICAL PANELS WITH A CONSPICUOUS AND PERMANENT LABEL THAT INDICATES WHERE PANELS ARE FED FROM PER NEC 408.4(B).

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SHEET TITLE:
FLOOR PLAN -
LIGHTING

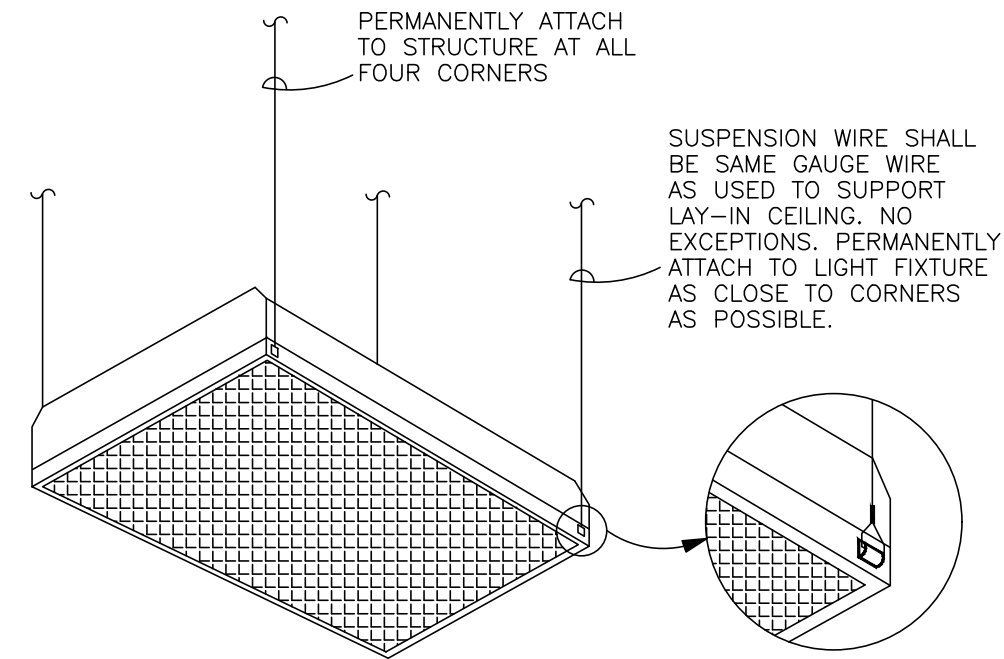
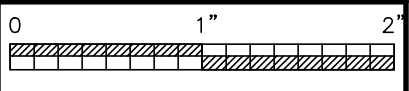
PROJ. MGR.: LANCE JUNKIN
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JOB NO. **22-10**

SHEET NO:

E3.1

3 OF 5



DETAIL - LIGHT FIXTURE SUPPORT
N.T.S.



FLOOR PLAN - LIGHTING

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

NOTES:
1. ALL WIRING SHOWN FEEDING EXTERIOR FIXTURES SHALL BE #10 THHN.

RELAY PANEL LCP-M1

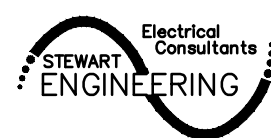
R	PANEL	CIRCUIT	PROGRAM MODE
1	PPK	27	NORMAL DAY-TO-DAY
2	PPK	28	NORMAL DAY-TO-DAY
3	PPK	29	NORMAL DAY-TO-DAY
4	PPK	30	EXTERIOR - DUSK TO DAWN
5	PPK	31	EXTERIOR - DUSK TO MIDN.
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

COOPER GREENGATE RELAY CABINET (NETWORKABLE)
CONTROLKEEPER 16 (CKT16) WITH 16 RELAYS

SITE VISIT NOTE:
CONTRACTOR SHALL INCLUDE IN BID PRICE A TOTAL OF (3) SITE VISITS FROM FACTORY TRAINED REPRESENTATIVE FOR LIGHTING CONTROL SYSTEM INSTALLATION, PROGRAMMING, AND TRAINING.

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Project Number:
2285



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SHEET TITLE:
FLOOR PLAN –
POWER

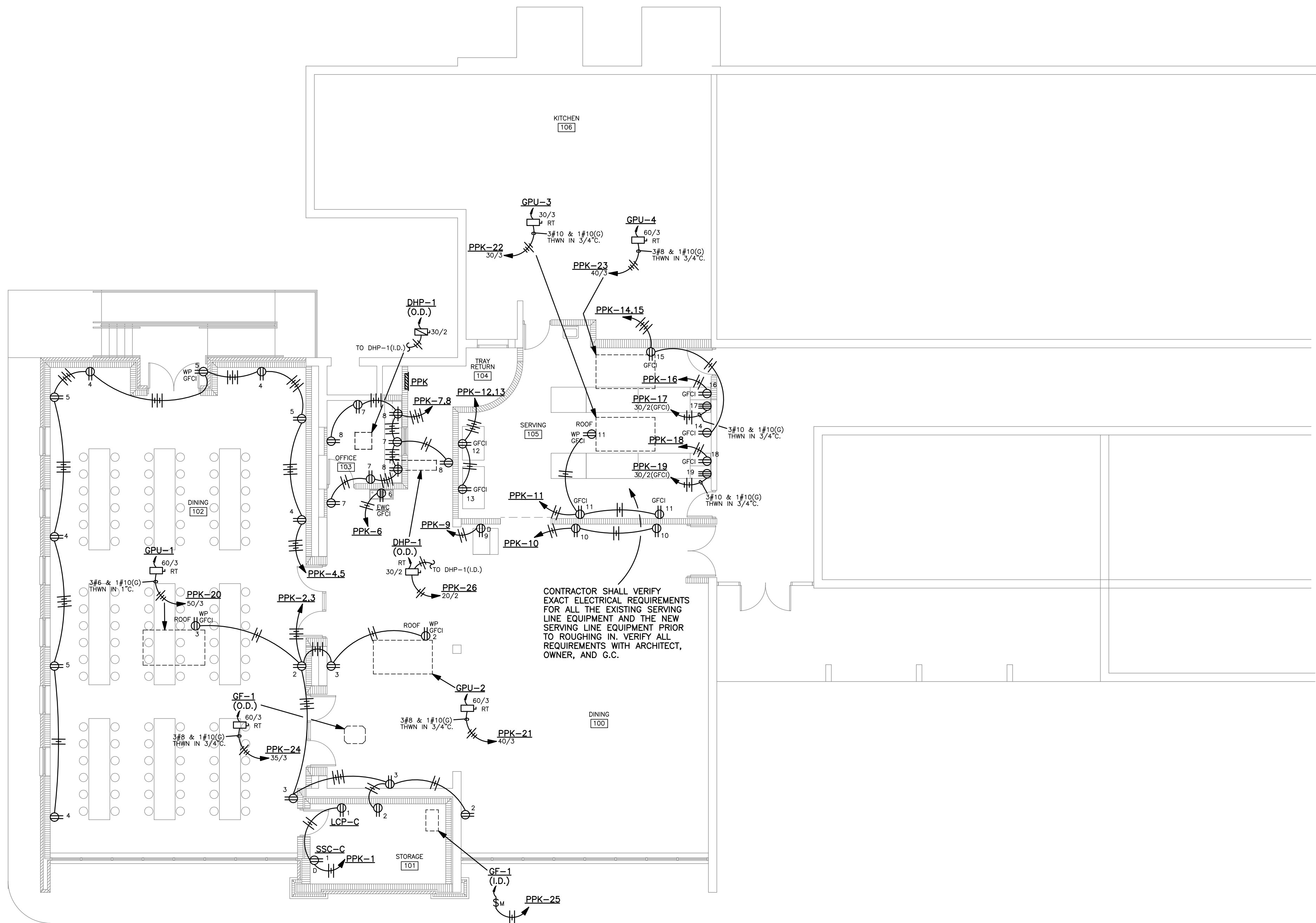
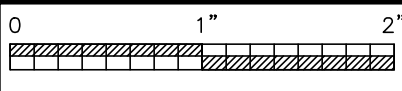
PROJ. MGR.: LANCE JUNKIN
DRAWN: SEC
DATE: JULY 8, 2022
REVISIONS

JOB NO. **22-10**

SHEET NO:

E4.1

4 OF 5



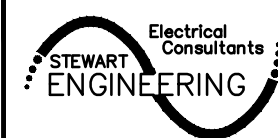
FLOOR PLAN - POWER

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

- NOTES:
- COORDINATE ALL OUTLETS AT COUNTER AREAS CLOSELY WITH ARCHITECTURAL CASEWORK DRAWINGS. PLACE OUTLETS BELOW COUNTERS, AT STANDARD MOUNTING HEIGHT, WHEN KNEE SPACE PERMITS ACCESS (COORDINATE INSTALLATION OF HOLES WITH RUBBER GROMMETS IN THOSE CASES).
 - COORDINATE INSTALLATION OF OUTLETS CLOSELY WITH KITCHEN EQUIPMENT SUPPLIER.
 - ALL BRANCH CIRCUIT HOME RUNS THAT EXCEED 100' IN LENGTH SHALL BE #10 THHN.

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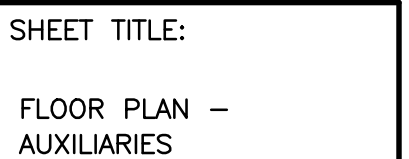


Engineer:
J. Lance Junkin, P.E.
Alabama Reg. 14817

Project Number:
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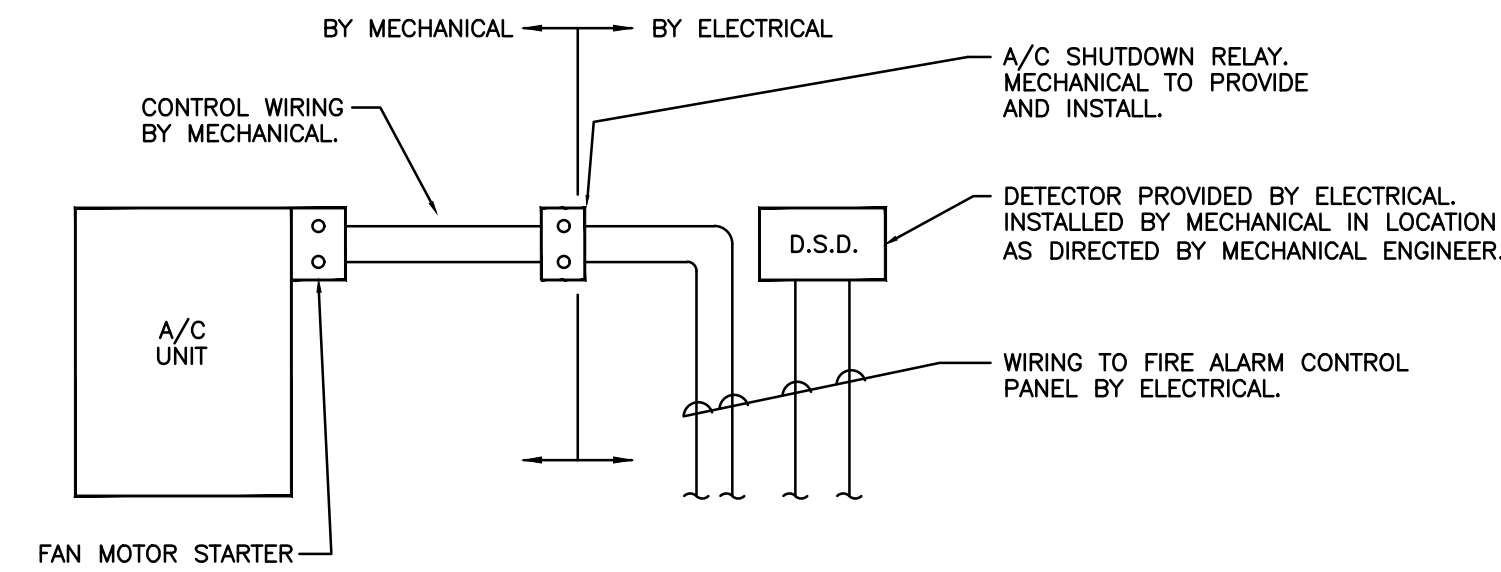
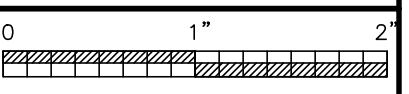
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DRAWN: SEC
DATE: JULY 8, 2022
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JOB NO. **22-10**

SHEET NO.:

E5.1

OF 5



DETAIL - DUCT SMOKE DETECTOR CONNECTION

N.T.S.

AUXILIARY CIRCUIT LEGEND

IS INTERCOM SPEAKER - FED FROM EXISTING SSC

2A DATA OUTLET 2A
(1 CAT. 6 CABLE PULLED TO JUNCTION BOX
AND TERMINATED, LEAVE 12" SLACK ON
EACH CABLE)

S SPEAKER - FED FROM NEW SSC-C

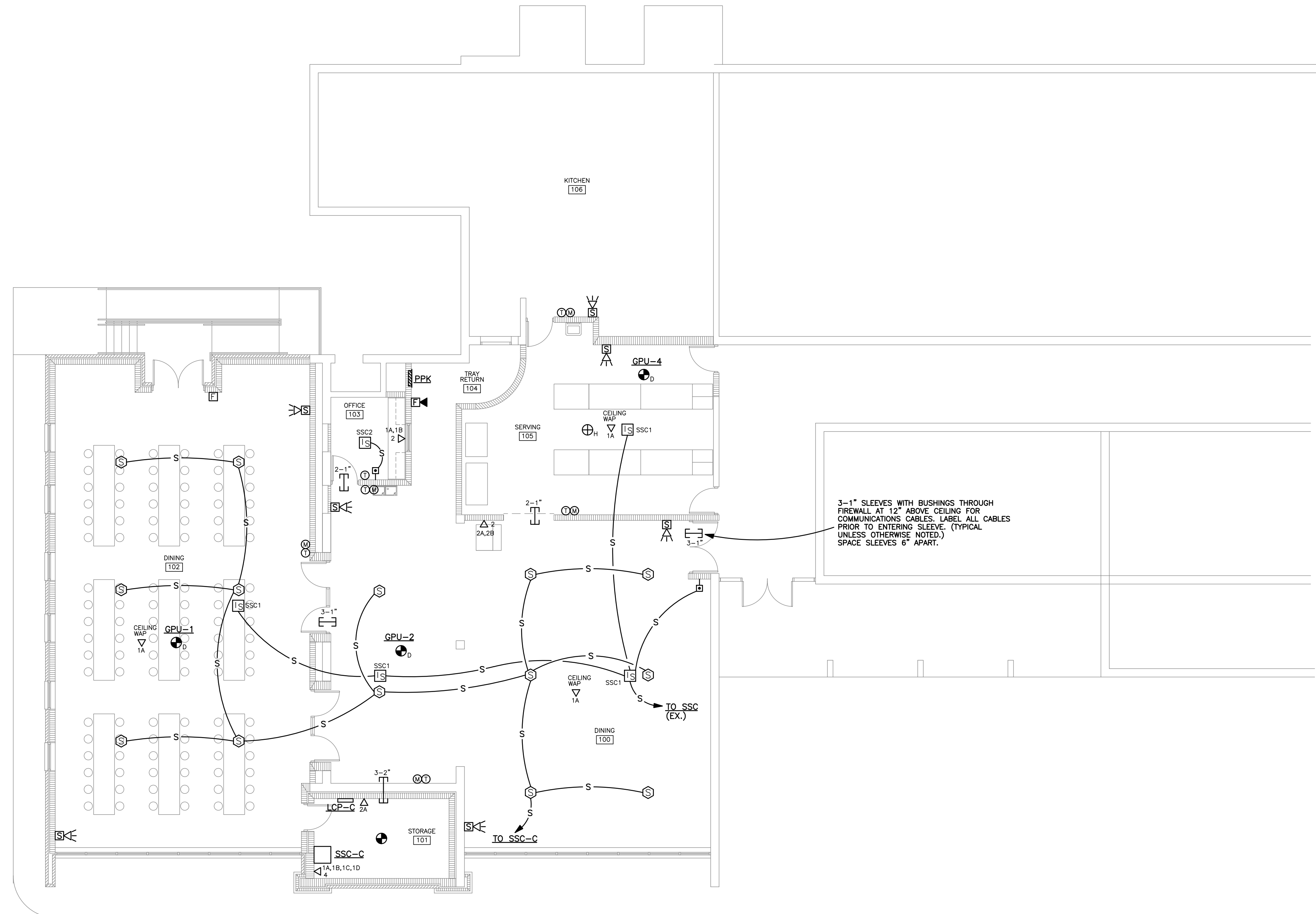
OUTLET NUMBER: 1A ROOM NUMBER: 103
IDF NUMBER: MDF PATCH PANEL/PORT #: 1 / 1

DETAIL - DATA CABLE LABEL

N.T.S.

NOTES:

1. LABEL ALL CABLES EVERY 50' AND AT EACH END.
2. EXACT LABEL METHOD SHALL BE COORDINATED WITH, AND APPROVED BY, ENGINEER PRIOR TO PURCHASE AND INSTALLATION.
3. IF ONLY ONE (1) OUTLET IN A ROOM, LABEL OUTLET AS 1A.
4. ROOM NUMBERS ON LABELS SHALL CORRESPOND TO FINAL ROOM NUMBERS IN FIELD (NOT NECESSARILY SAME AS ON CONSTRUCTION DRAWINGS).



FLOOR PLAN - AUXILIARIES


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

NOTES

- NOTES:**
1. ALL COMPUTER OUTLETS SHOWN ON THIS PLAN ARE SERVED FROM MDF(EX.).
VERIFY WITH OWNER IF THERE IS A CLOSER IDF AND ADJUST ACCORDINGLY.
 2. COORDINATE FINAL LOCATIONS OF ALL CEILING SPEAKERS, SMOKE DETECTORS, ETC.
TO AVOID CONFLICT WITH LIGHT FIXTURES AND MECHANICAL EQUIPMENT. PLACE THESE
DEVICES AS CLOSE AS POSSIBLE TO LOCATION SHOWN ON THESE DRAWINGS. COORDINATE
WITH FIRE ALARM SYSTEM MANUFACTURER WITH REGARD TO APPROPRIATE "MINIMUM"
DISTANCE FROM DIFFUSERS.

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