ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11, CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

SHELBY COUNTY BOARD OF EDUCAITON	
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PEG HILL	VICE PRESIDENT
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BRIAN BOATMAN	BOARD MEMBER
AMBER POLK	BOARD MEMBER
DR. LEWIS BROOKS	SUPERINTENDENT

OWNER SHELBY COUNTY BOARD OF EDUCATION
410 EAST COLLEGE STREET
COLUMBIANA, ALABAMA 35051

ARCHITECT LATHAN ASSOCIATES ARCHITECTS, P.C.
300 CHASE PARK SOUTH
SUITE 200
HOOVER, ALABAMA 35244
EMAIL: RFI@LATHANASSOCIATES.COM

CIVIL LBYD, INC.
880 MONTCLAIR ROAD #600
BIRMINGHAM, ALABAMA 35213

MECHANICAL/ PLUMBING DEWBERRY ENGINEERS, INC.
RIVERCHASE OFFICE PLAZA #2
SUITE 205
HOOVER, ALABAMA 35244

STRUCTURAL STRUCTURAL DESIGN GROUP, INC.
300 CHASE PARK SOUTH
SUITE 125
HOOVER, ALABAMA 35244

ELECTRICAL STEWART ENGINEERING, INC.
P.O. BOX 2233
ANNISTON, ALABAMA 36202

DRAWING INDEX (SET - 52 TOTAL SHEETS)

GENERAL (2 SHEETS)

CIVIL DRAWINGS (7 SHEETS)

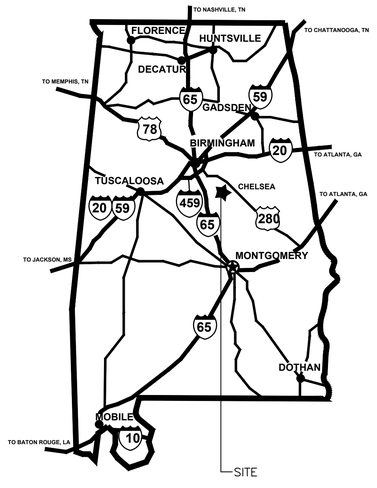
ARCHITECTURAL DRAWINGS (16 SHEETS)

STRUCTURAL DRAWINGS (13 SHEETS)

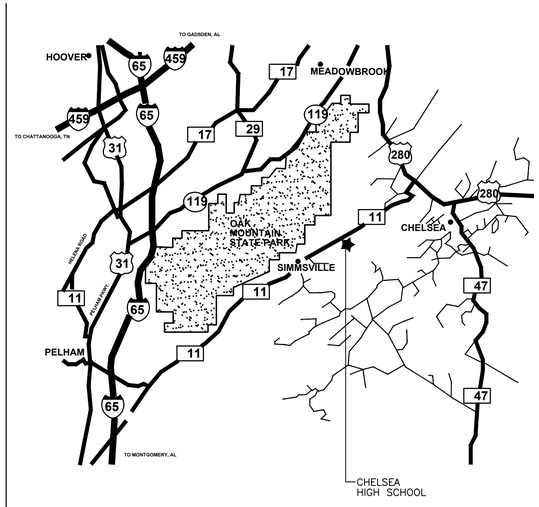
PLUMBING DRAWINGS (3 SHEETS)

MECHANICAL DRAWINGS (6 SHEETS)

ELECTRICAL DRAWINGS (5 SHEETS)



AREA MAP
STATE OF ALABAMA



VICINITY MAP
CHELSEA, ALABAMA

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11, CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

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

SHEET TITLE:
TITLE AND INDEX

PROJ. MGR.: R. LATHAN
DRAWN: JWW
DATE: SEPTEMBER 22, 2023
REVISIONS

JOB NO. 23-63
SHEET NO:
T1
1 OF 2

2021 INTERNATIONAL BUILDING CODE RESEARCH

EXISTING OCCUPANCY CLASSIFICATION:	GROUP A3	
EXISTING TYPE OF CONSTRUCTION :	TYPE IIIB (NS)	
NEW ADDITION OCCUPANCY CLASSIFICATION:	GROUP A2	
NEW ADDITION TYPE OF CONSTRUCTION :	TYPE IIIB (NS)	
NEW ADDITION OCCUPANCY CLASSIFICATION:	GROUP A3	
NEW ADDITION TYPE OF CONSTRUCTION :	TYPE IIIB (NS)	
NEW ADDITION OCCUPANCY CLASSIFICATION:	GROUP A3(ALTERNATE)	
NEW ADDITION TYPE OF CONSTRUCTION :	TYPE IIIB (NS)(ALTERNATE)	
EXISTING BUILDING AREA (A3):	1,730 S.F.	
NEW ADDITION AREA (A2):	1,251 S.F.	
NEW ADDITION AREA (A3):	2,900 S.F.	
TOTAL AREA MAIN LEVEL:	5,881 S.F.	
NEW LOWER LEVEL AREA (S1)ALTERNATE):	2,150 S.F.	
TABLE 504.4 ALLOWABLE NUMBER OF STORIES:	ALLOWABLE STORIES: 2	ACTUAL STORIES: 2
TABLE 506.2 ALLOWABLE AREA:	AREA FACTOR: A2 &A3	9,500 S.F.
TABLE 506.2 ALLOWABLE AREA:	AREA FACTOR: A3	9,500 S.F.

TABLE 601 AND 705.5 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:	CONSTRUCTION TYPE:		IIIB
	STRUCTURAL FRAME:		0
	BEARING WALLS EXTERIOR:		2 hr
	T. 602 EXTERIOR:	< 5'	1hr
		≥ 5'< 10'	1hr
		≥ 10'< 30'	1hr
		≥ 30'	0
	INTERIOR:		0
	NONBEARING WALLS:		
	T. 602 EXTERIOR:	< 5'	1hr
		≥ 5'< 10'	1hr
		≥ 10'< 30'	1hr
		≥ 30'	0
	INTERIOR:		0
	FLOOR CONSTRUCTION:		0
	ROOF CONSTRUCTION:		0
TABLE 1020.1 CORRIDOR FIRE-RESISTANCE RATING PARTITIONS AND OPENING PROTECTIVES	GROUP A2, A3, & S1 NON SPRINKLERED		1 hr

DOOR/WINDOW RATING LEGEND

- (20) 2O MINUTE DOOR AND FRAME
- (45) 45 MINUTE DOOR AND FRAME
- (60) 60 MINUTE DOOR AND FRAME
- (90) 90 MINUTE DOOR AND FRAME

WALL TYPE LEGEND

- 1 HR WALL
- 2 HR WALL
- S-S-S-S-S-S-S-S-S-S-S- SMOKE BARRIER

LIFE SAFETY NOTES

FEC — FIRE EXTINGUISHER AND CABINET (PROVIDE FIRE RATED CABINETS IN RATED WALLS.)	
FE — FIRE EXTINGUISHER	ACCESSIBLE
EXIT SIGN — DIRECTION	EXIT (320) — EXIT CAPACITY
EXTEND AND KEY ALL RATED WALLS TO SHAFT WALL SYSTEM, AND/OR BOTTOM OF ROOF ASSEMBLY	
STENCIL LABEL ALL RATED WALLS & DRAFT STOPS ABOVE CEILING EACH SIDE @ 20'-0" O.C. MAX.	
ALL RATED DOORS AND FRAMES TO BE LABELED WITH EMBOSSED LABELS INDICATING RATING IN MINUTES	
PROVIDE FOAM FILL INSULATION AS SPECIFIED IN ALL WALLS BETWEEN TOILETS AND CLASSROOMS.	
COORDINATE W/ ELECTRICAL & MECHANICAL AND PROVIDE CONCRETE EQUIPMENT PAD AS REQUIRED	
HE - HORIZONTAL EXIT	XHE - EXISTING HORIZONTAL EXIT
FB - FIRE BARRIER	XFB - EXISTING FIRE BARRIER
FP - FIRE PARTITION	XFP - EXISTING FIRE PARTITION
FW - FIRE WALL	XFW - EXISTING FIRE WALL

TRAVEL DISTANCE — START — PATH — DIRECTION

FUNCTION — S | 300G — LOAD FACTOR:
OCCUPANT LOAD — 35 — N = NET, G = GROSS

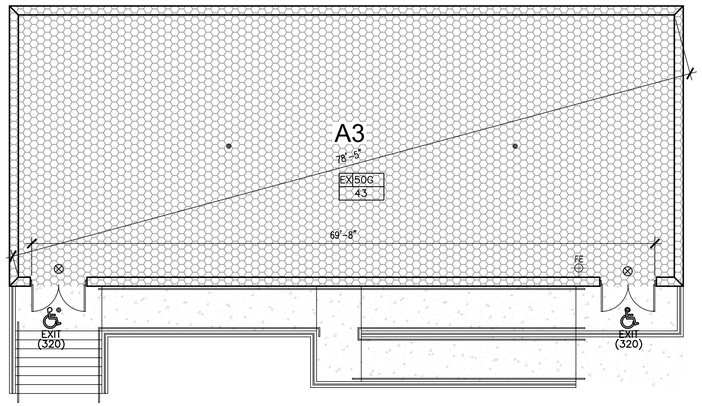
CHAPTER 29 - PLUMBING SYSTEMS

OCCUPANCY		WATERCLOSETS				LAVATORIES				DRINKING FOUNTAINS		SERVICE SINKS
USE	LOAD	RATIO	MALE	RATIO	FEMALE	RATIO	MALE	RATIO	FEMALE	RATIO	ALL	ALL
A2	44	1/75	1	1/75	1	1/200	1	1/200	1	1/500	1	1
A3	148	1/125	1	1/65	1	1/200	1	1/200	1	1/500	1	1
S1	8	1/100	1	1/100	1	1/100	1	1/100	1	1/1000	0	
REQUIRED TOTALS			3		3		3		3		2	1
PROVIDED TOTALS			6		12		3		3		2	1

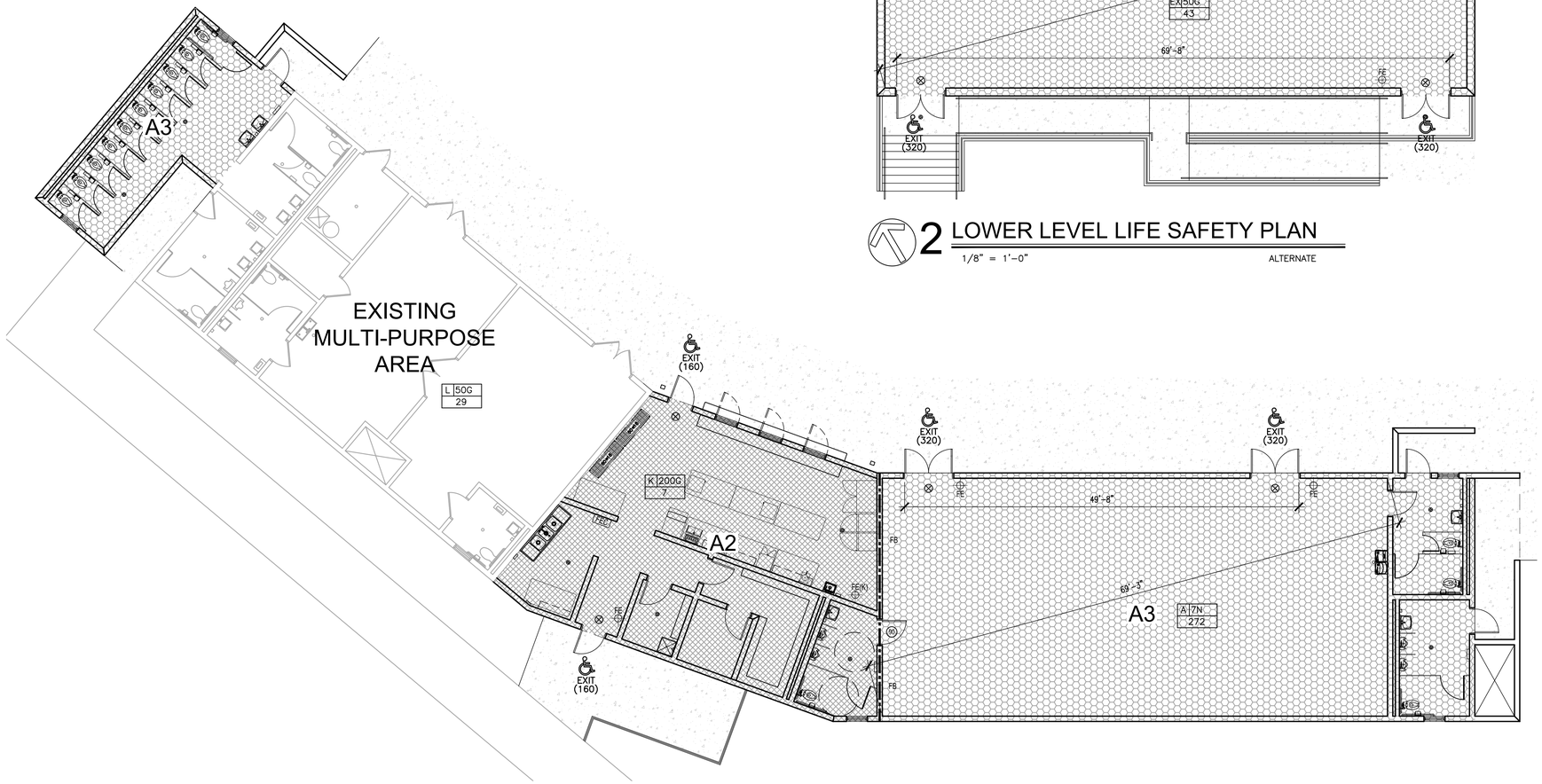
NOTE: CALCULATION BASED ON NEW ADDITION ALONE.

OCCUPANCY USE LEGEND

- A2 — GROUP A2
- A3 — GROUP A3
- S1 — GROUP S1



2 LOWER LEVEL LIFE SAFETY PLAN
1/8" = 1'-0" ALTERNATE



1 MAIN LEVEL LIFE SAFETY PLAN
1/8" = 1'-0"

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
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10510 COUNTY ROAD 11 , CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

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

SHEET TITLE:
LIFE SAFETY PLANS

PROJ. MGR.: R. LATHAN
DRAWN: JWW
DATE: SEPTEMBER 22, 2023
REVISIONS

JOB NO. 23-63
SHEET NO:
LS1
2 OF 2

0 1" 2"

GENERAL NOTES:

1. LBYD, INC. SHALL NOT HAVE AUTHORITY OVER THE SITE OR BUILDING CONTRACTOR'S WORK OR RESPONSIBILITIES. LBYD IS NOT RESPONSIBLE FOR SITE SAFETY PROCEDURES OR METHODS OF CONSTRUCTION.
2. 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 LBYD IMMEDIATELY.
3. 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.
4. ALL EXISTING IMPROVEMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE REMOVED UNLESS SPECIFICALLY NOTED,"TO REMAIN".
5. 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.
6. CONTRACTOR SHALL VERIFY SITE BOUNDARY AND EXISTING TOPOGRAPHY. NOTIFY LBYD OF ANY DISCREPANCIES PRIOR TO SUBMITTING PRICES OR ORDERING MATERIALS
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL BENCHMARKS AND PROPERTY CORNERS. ANY REPLACEMENT WILL BE AT THE CONTRACTOR'S EXPENSE.
8. 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.
9. BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY THE OWNER AND PERFORMED BY GONZALEZ-STRENGTH & ASSOCIATES, INC. DATED 6/28/2023.
10. TOPOGRAPHIC INFORMATION WAS PERFORMED VIA GROUND RUN FORMAT.

SITE DEMOLITION NOTES:

1. 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.
2. 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.
3. REFER TO SITE GRADING AND UTILITY PLANS FOR PROPOSED UTILITY AND DRAINAGE INSTALLATION AND REMOVAL.
4. REFER TO LAYOUT PLAN FOR ADDITIONAL INFORMATION RELATING TO PAVING, CURB, SIDEWALKS, HARDSCAPES, ETC. REMOVE EXISTING CURBS AS NEEDED TO INSTALL PROPOSED IMPROVEMENTS.
5. CONTRACTOR SHALL COORDINATE WITH OWNER AND THE UTILITY PROVIDER PRIOR TO THE DISCONNECTING OF ANY UTILITY SERVICE TO THE EXISTING BUILDINGS.
6. 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.
7. ALL DEMOLITION AND CONSTRUCTION DEBRIS SHALL BE TRANSPORTED AND DISPOSED OF AT LEAST WEEKLY IN A LEGAL AND APPROVED MANNER.
8. 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 24" TO ENSURE SMOOTH TRANSITION.

SITE LAYOUT NOTES:

1. ALL HANDICAP RAMPS, SIGNS, SYMBOLS, AND PAINTED ISLANDS AND ACCESS ROUTES MUST CONFORM TO THE LATEST ADA REQUIREMENTS.
2. 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.
3. ALL DIMENSIONS AND COORDINATES SHOWN ARE TO THE OUTSIDE FACE OF BUILDING, TO THE BACK OF CURB, OR TO THE EDGE OF SURFACING UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL PLANS FOR SPECIFIC BUILDING INFORMATION.
4. 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:

1. THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING COMPACTION TESTING.
2. 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.
3. 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.
4. ALL EXPOSED SUBGRADE SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 12" AND RECOMPACTED TO THE SPECIFIED DENSITY AND MOISTURE CONTENT LISTED BELOW.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE SUBGRADE AFTER IT HAS BEEN INITIALLY PREPPED DUE TO INCLEMENT WEATHER AND CONSTRUCTION TRAFFIC.
6. 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 25, MINIMUM STANDARD PROCTOR (ASTM D-698) OF 100 PCF, COMPACTED 98% IN ALL AREAS, PLACED IN 8" LOOSE LIFTS, AND WITHIN ±2.0% OF OPTIMUM MOISTURE CONTENT.
7. 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.
8. COMPACTION WITHIN LIMITED SPACES (I.E. MANHOLES, INLETS, UTILITY TRENCHES) SHOULD BE BACKFILLED AND COMPACTED SYSTEMATICALLY, AT THE DIRECTION OF THE ON-SITE GEOTECHNICAL ENGINEER. STONE BACKFILL SHALL BE INSTALLED IN 12" LOOSE LIFTS AND COMPACTED WITH 6-8 PASSES OF A VIBRATORY COMPACTOR
9. CLEARING LIMITS SHALL BE 5' OUTSIDE OF ALL PROPOSED GRADED AREAS OR NOT BEYOND THE PROPERTY LINES WHICHEVER IS LESS.
10. NO GRADING OFF-SITE OR IN ANY ROAD RIGHT-OF-WAY WITHOUT PROPER APPROVALS AND PRIOR NOTIFICATION.
11. COORDINATE THE SEQUENCING OF ALL GRADING OPERATIONS WITH THE EROSION CONTROL PLAN.
12. 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.
13. 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 LBYD OF ANY DISCREPANCIES.
14. PROPOSED GRADES INDICATED ON THIS PLAN ARE TO FINISH GRADE. THE CONTRACTOR SHALL MAKE SUBGRADE ADJUSTMENTS FOR TOPSOIL, PAVING, BUILDING PAD, ETC.
15. FILL SLOPES SHOULD BE BENCHED INTO THE EXISTING SLOPES AND SHOULD BE COORDINATED WITH THE ONSITE GEOTECHNICAL ENGINEER FOR BENCH DETAILS (HEIGHT AND DEPTH OF BENCH INTO THE SLOPE.)
16. RETAINING WALL GRADES: GTW INDICATES FINISHED GRADE AT TOP OF WALL, GBW INDICATES FINISHED GRADE AT BOTTOM OF WALL. ACTUAL WALL HEIGHT MUST BE A MINIMUM OF 6" ABOVE FINISHED GRADE AT TOP OF WALL.
17. A GEOTECHNICAL REPORT HAS BEEN PREPARED BY TERRACON CONSULTANTS, INC., PROJECT NUMBER E1235115 AND IS AVAILABLE FOR INFORMATION PURPOSES. THE CONTRACTOR SHALL REVIEW THIS REPORT, VISIT THE SITE AND COMPLETE ANY ADDITIONAL EXPLORATIONS THAT IT FEELS NECESSARY IN ORDER TO PROVIDE A SATISFACTORY BID.
18. 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.
19. 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 LBYD INC. OF ANY DISCREPANCIES.

STORM DRAINAGE NOTES:

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

EROSION CONTROL NOTES:

1. SITE EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS, CODES, AND REGULATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED EROSION CONTROL PERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MONITORING, INSPECTIONS, ETC. TO ENSURE THE OWNER THAT THE SITE IS AT ALL TIMES IN ACCORDANCE WITH PERMIT RULES & REGULATIONS. DOCUMENTATION OF INSPECTIONS BY A Q.C.I. OR Q.C.P. SHALL BE MAINTAINED BY THE CONTRACTOR AND PROVIDED TO THE OWNER AT HIS/HER REQUEST. ANY AND ALL FEES, FINES, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. 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.
4. 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, VEHCILE 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.
5. EROSION CONTROL DEVICES SHALL INCLUDE, BUT NOT LIMITED, TO THE FOLLOWING DEVICES: SILT FENCING, BRUSH BERMS, SEDIMENT BASINS, DETENTION PONDS, STRAW WATTLES , CHECK DAMS, FILTER BERMS, JUTE MATTING, VEGETATIVE FILTER STRIPS, TURF REINFORCEMENT MAT, DIVERSION BERMS, ETC.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. ALL LAND DISTURBANCE ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE EXPOSURE OF BARE AREAS AT ANY ONE TIME.
12. ALL DISTURBED AREAS LEFT INACTIVE FOR MORE THAN 13 DAYS SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH ALDOT SPECIFICATIONS SECTION 652 AND 656 OR HYDRAULICALLY APPLIED BY ALDOT SPECIFICATION SECTION 659.
13. ALL PREVIOUSLY GRADED AREAS SHALL RECEIVE 4 INCHES OF TOPSOIL AND PERMANENT GRASSING UNLESS OTHERWISE INDICATED ON THE LANDSCAPE PLAN.
14. PRIOR TO SITE CLEARING, ALL PERIMETER SILT FENCING, BRUSH BERMS, ETC. AND GRAVELED ACCESS DRIVES SHALL BE INSTALLED.
15. ALL EXISTING STREAMS, DITCHES, ETC. SHALL BE PROTECTED FROM SEDIMENTS AND SILTS BY SILT FENCING, WATTLES, BRUSH BERMS, ETC.
16. RIP RAP SHALL BE PLACED AT EACH HEADWALL IMMEDIATELY FOLLOWING CONSTRUCTION OF EACH HEADWALL.
17. GEOTEXTILE SHALL BE PLACED ON ALL 2:1 SIDE SLOPES. GEOTEXTILE SHALL BE NORTH AMERICAN GREEN SC150 OR APPROVED EQUAL UNLESS OTHERWISE NOTED ON PLANS. ALL GEOTEXTILES SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
18. GEOTEXTILE SHALL BE PLACED ON ALL 3:1 SIDE SLOPES. GEOTEXTILE SHALL BE NORTH AMERICAN GREEN S150 OR APPROVED EQUAL UNLESS OTHERWISE NOTED ON PLANS. ALL GEOTEXTILES SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.

UTILITY NOTES:

1. 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.
2. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, ETC. PLANS FOR ALL PROPOSED UTILITY POINTS OF CONNECTION AT THE BUILDING. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
3. GRAVITY SEWER SYSTEMS SHALL BE CONSTRUCTED FROM DOWNSTREAM TO UPSTREAM. VERIFY ALL PIPE SLOPES, INVERTS, AND POINTS OF CONNECTION PRIOR TO CONSTRUCTION. NOTIFY LBYD OF ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED GRAVITY SEWER PIPE GRADES AND POINTS OF CONNECTION PRIOR TO INSTALLATION. LBYD SHALL BE NOTIFIED OF ANY DEVIATIONS PRIOR TO CONSTRUCTION.
5. BACKFLOW PREVENTION AND METERING SHALL BE PROVIDED ON THE DOMESTIC SERVICE IN ACCORDANCE WITH THE LOCAL UTILITY COMPANY'S REQUIREMENTS.
6. 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.
7. WATER MAINS AND SERVICES SHALL BE A MINIMUM OF 10 FEET HORIZONTAL AND 2 FEET VERTICAL FROM ALL SANITARY SEWER MAINS AND LATERALS.
8. 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.
9. ALL SANITARY SEWER MAINS AND LATERALS SHALL BE PVC (SCH.40) UNLESS OTHERWISE REQUIRED BY THE LOCAL UTILITY COMPANY.
10. 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.
11. 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%.
12. 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.
13. 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.
14. 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.
15. PROVIDE 4" PVC SCHEDULE 40 GRAVITY DRAIN LINE FROM ALL BELOW GRADE UTILITY VAULTS TO THE NEAREST STORM DRAINAGE INLET OR DAYLIGHT AT GRADE.

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PROJECT NO.
133172.001

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11 . CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

ALABAMA LICENSED No. 24443 PROFESSIONAL CHRISTOPHER ALLEN
9/22/2023

SHEET TITLE:
CIVIL NOTES

PROJ. MGR.: CAH
DRAWN: CAH
DATE: SEPTEMBER 22, 2023
REVISIONS

JOB NO. 23-63
SHEET NO:
C0
1 OF 7
0 1" 2"

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LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11 . CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

REMOVE EXISTING 2" WATER LINE (SEE SHEET C4.0 FOR EXTENTS)
EXISTING 2" WATER LINE TO REMAIN
EXISTING ELECTRICAL BOX (SEE ELECTRICAL PLANS)
EXISTING WATER VALVE TO REMAIN
REMOVE EXISTING 2" FORCE MAIN (SEE SHEET C4.0 FOR EXTENTS)
CAP EXISTING 1" WATER LINE AND ABANDON IN PLACE
REMOVE EXISTING CONCRETE
SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR ALL BUILDING DEMOLITION
REMOVE AND REPLACE EXISTING FENCE AS NEEDED TO INSTALL NEW 8" HEADER CURB (SEE SHEET C2.0)
EXISTING CLEANOUT AND SANITARY SEWER TO REMAIN
REMOVE EXISTING CONCRETE
EXISTING BUILDING TO REMAIN
EXISTING 2" FORCE MAIN TO REMAIN
EXISTING TRACK TO REMAIN
EXISTING AC UNITS, CONCRETE PAD, AND BOLLARDS TO REMAIN
EXISTING SANITARY SEWER TO REMAIN
REMOVE EXISTING CONCRETE
EXISTING LIFT STATION CONTROL PANEL TO BE REMOVED
EXISTING 2" FORCE MAIN TO REMAIN
EXISTING LIFT STATION TO BE REMOVED AND REPLACED (SEE SHEETS C4.0 & C5.0 FOR LOCATION)
REMOVE EXISTING CONCRETE
ALTERNATE: REMOVE EXISTING 1" WATER LINE IN CONFLICT WITH THE NEW BASEMENT AREA
EXISTING UNDERGROUND ELECTRICAL (SEE ELECTRICAL PLANS)
REMOVE EXISTING FENCE
CAP EXISTING 1" WATER LINE AND ABANDON IN PLACE
EXISTING 1" WATER LINE TO REMAIN
SAW CUT & REMOVE EXISTING CONCRETE
EXISTING SIDEWALK TO REMAIN
REMOVE EXISTING FENCE
EXISTING FENCE TO REMAIN
EXISTING SIDEWALK TO REMAIN

GRATE INLET
TOP EL: 686.45
INV OUT: 685.23

SANITARY SEWER LIFT STATION TOP EL: 687.63

TWO STORY BLOCK BLDG.
FF ELEV. = 6[illegible].53

1" PVC WATER LINE
10" PVC
18" RCP
ELECTRICAL OUTLET
PUMP BREAKER
BREAKER
MAIN

NOTES:
1. SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.

N
0 5 10 15 20
SCALE: 1"=10'

ALABAMA LICENSED No. 24443 PROFESSIONAL ENGINEER CHRISTOPHER ALLEN HOLT
9/22/2023

SHEET TITLE:
SITE DEMOLITION PLAN

PROJ. MGR.: CAH
DRAWN: CAH
DATE: SEPTEMBER 22, 2023
REVISIONS

JOB NO. 23-63
SHEET NO:
C1
2 OF 7
0 1" 2"

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LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11 . CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

ALABAMA LICENSED No. 24443 PROFESSIONAL ENGINEER CHARLES HUMMER ALLEN
9/22/2023

SHEET TITLE:
SITE LAYOUT PLAN
BASE BID

PROJ. MGR.:	CAH
DRAWN:	CAH
DATE:	SEPTEMBER 22, 2023
REVISIONS	

JOB NO. 23-63

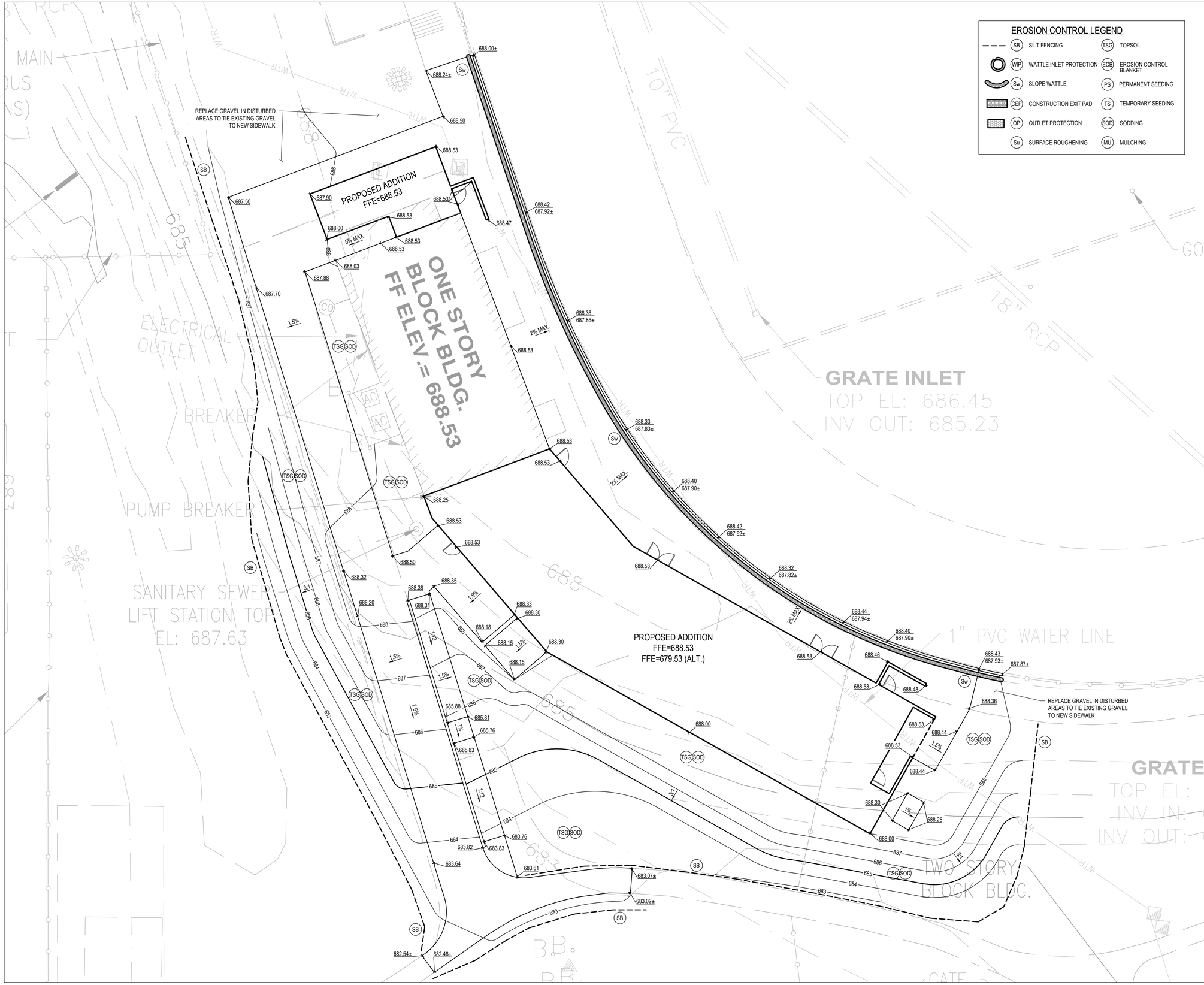
SHEET NO:
C2
3 OF 7

0 1" 2"

TIE TO EXISTING SIDEWALK
CONCRETE SIDEWALK (SEE DETAIL)
INSTALL 8" HEADER CURB ALONG EDGE OF TRACK. (SEE DETAIL) REPLACE FENCE IN CENTER OF CURB.
PROPOSED ADDITION FFE=688.53
6'
CONCRETE SIDEWALK (SEE DETAIL)
7.5'
SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR CONNECTION DETAILS
ONE STORY BLOCK BLDG. F ELEV.= 688.
12'
ELECTRICAL OUTLET
BREAKER
AC
AC
SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR CONNECTION DETAILS
REPLACE EXISTING FENCE IN CENTER OF NEW 8" HEADER CURB
CONCRETE SIDEWALK (SEE DETAIL)
PUMP BREAKER
CONCRETE SIDEWALK (SEE DETAIL)
SANITARY SEWER LIFT STATION TOP EL: 687.63
CONCRETE SIDEWALK (SEE DETAIL)
10.26'
11'
17.15'
10'
HVAC PAD (SEE MECHANICAL PLANS)
PROPOSED ADDITION FFE=688.53 FFE=679.53 (ALT.)
INSTALL 8" HEADER CURB ALONG EDGE OF TRACK (SEE DETAIL). REPLACE FENCE IN CENTER OF CURB.
CONCRETE SIDEWALK (SEE DETAIL)
TIE TO EXISTING FENCE
ADA RAMP WITH HANDRAILS (SEE ARCHITECTURAL PLANS)
30'
12'
5'
5'
24'
6'
4' HIGH BLACK VINYL CHAIN LINK FENCE (SEE DETAIL)
HVAC PAD (SEE MECHANICAL PLANS)
CONCRETE SIDEWALK (SEE DETAIL)
R10'
TIE TO EXISTING SIDEWALK
R12'
TIE TO EXISTING SIDEWALK
TIE TO EXISTING FENCE
4' HIGH BLACK VINYL CHAIN LINK FENCE (SEE DETAIL)
6' WIDE GATE
TWO STORY BLOCK BLDG.
GRATE INLET TOP EL: 686.45 INV OUT: 685.23
10" PVC
18" RCP
1" PVC WATER LINE
GRATE TOP EL: INV IN: INV OUT:
GO
MAIN
WTR

NOTES:
1. SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.

N
0 10 20
5 15
SCALE: 1"=10'



NOTES:
1. SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.
2. ALL DISTURBED AREAS SHALL BE SODDED.

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LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11 . CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

ALABAMA LICENSED No. 24443 PROFESSIONAL ENGINEER CHRISTOPHER ALLEN HALL
9/22/2023

SHEET TITLE:
GRADING AND EROSION CONTROL PLAN - BASE BID

PROJ. MGR.:	CAH
DRAWN:	CAH
DATE:	SEPTEMBER 22, 2023
REVISIONS	

JOB NO. 23-63

SHEET NO:
C3
4 OF 7

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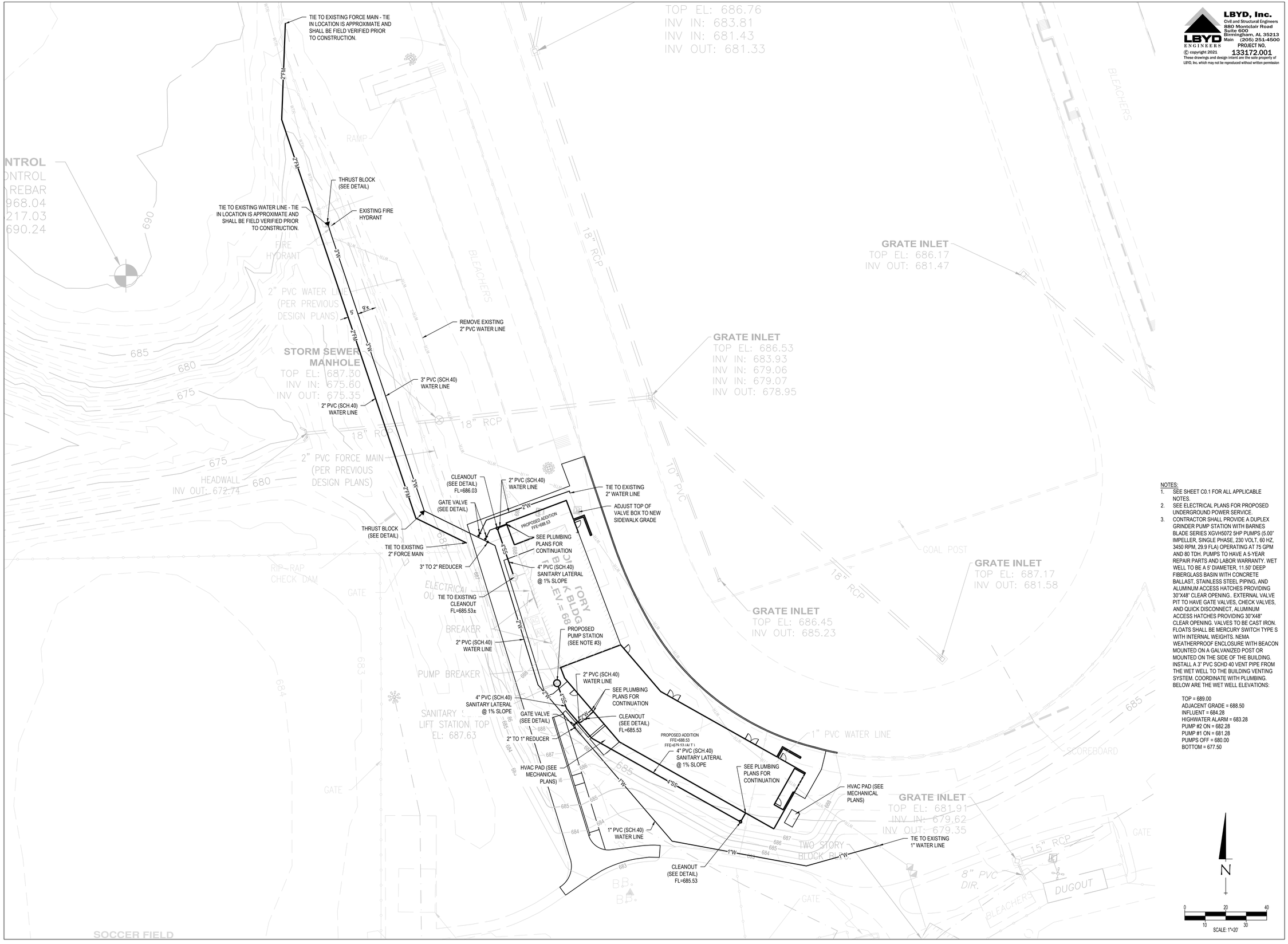
LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11 , CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION



NOTES:
1. SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.
2. SEE ELECTRICAL PLANS FOR PROPOSED UNDERGROUND POWER SERVICE.
3. CONTRACTOR SHALL PROVIDE A DUPLEX GRINDER PUMP STATION WITH BARNES BLADE SERIES XGVH5072 5HP PUMPS (5.00" IMPELLER, SINGLE PHASE, 230 VOLT, 60 HZ, 3450 RPM, 29.9 FLA) OPERATING AT 75 GPM AND 80 TDH. PUMPS TO HAVE A 5-YEAR REPAIR PARTS AND LABOR WARRANTY. WET WELL TO BE A 5' DIAMETER, 11.50' DEEP FIBERGLASS BASIN WITH CONCRETE BALLAST, STAINLESS STEEL PIPING, AND ALUMINUM ACCESS HATCHES PROVIDING 30"X48" CLEAR OPENING.. EXTERNAL VALVE PIT TO HAVE GATE VALVES, CHECK VALVES, AND QUICK DISCONNECT, ALUMINUM ACCESS HATCHES PROVIDING 30"X48" CLEAR OPENING. VALVES TO BE CAST IRON. FLOATS SHALL BE MERCURY SWITCH TYPE S WITH INTERNAL WEIGHTS. NEMA WEATHERPROOF ENCLOSURE WITH BEACON MOUNTED ON A GALVANIZED POST OR MOUNTED ON THE SIDE OF THE BUILDING. INSTALL A 3" PVC SCHD 40 VENT PIPE FROM THE WET WELL TO THE BUILDING VENTING SYSTEM. COORDINATE WITH PLUMBING. BELOW ARE THE WET WELL ELEVATIONS:

   TOP = 689.00
   ADJACENT GRADE = 688.50
   INFLUENT = 684.28
   HIGHWATER ALARM = 683.28
   PUMP #2 ON = 682.28
   PUMP #1 ON = 681.28
   PUMPS OFF = 680.00
   BOTTOM = 677.50

ALABAMA LICENSED No. 24443 PROFESSIONAL ENGINEER CHRISTOPHER ALLEN
9/22/2023

SHEET TITLE:
SITE UTILITY PLAN
BASE BID

PROJ. MGR.:	CAH
DRAWN:	CAH
DATE:	SEPTEMBER 22, 2023
REVISIONS	

JOB NO. 23-63

SHEET NO:
C4
5 OF 7

0 1" 2"

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PROJECT NO.
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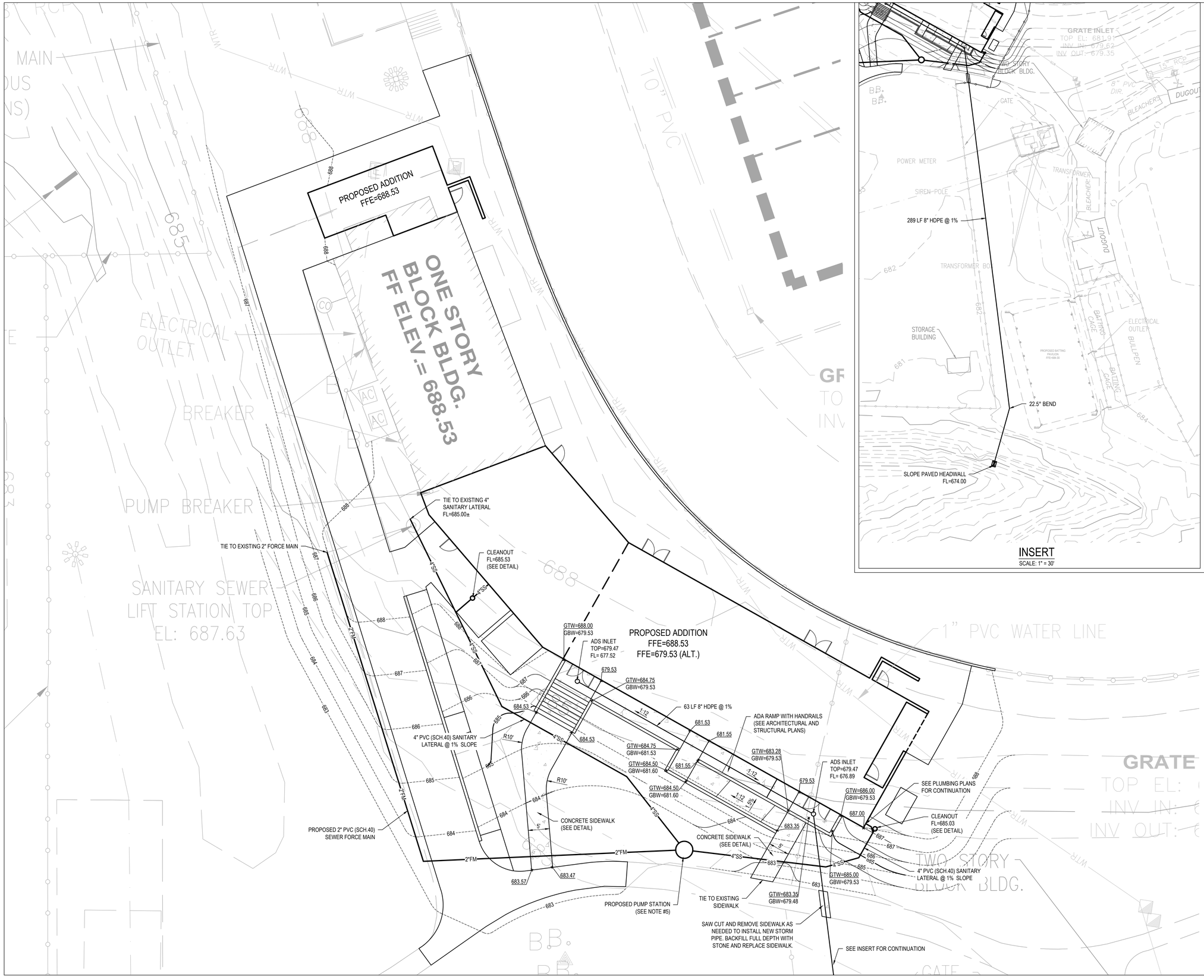
LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11 . CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION



NOTES:
1. SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.
2. ALL DISTURBED AREAS SHALL BE SODDED.
3. ADS INLET SHALL BE ADS-NYLOPLAST INLINE DRAIN WITH 8" ADA-COMPLIANT GRATE OR APPROVED EQUAL.
4. TIE LOWER LEVEL FOUNDATION DRAIN TO ADS INLET.
5. CONTRACTOR SHALL PROVIDE A DUPLEX GRINDER PUMP STATION WITH BARNES BLADE SERIES XGVH5072 5HP PUMPS (5.25" IMPELLER, SINGLE PHASE, 230 VOLT, 60 HZ, 3450 RPM, 29.9 FLA) OPERATING AT 76 GPM AND 90 TDH. PUMPS TO HAVE A 5-YEAR REPAIR PARTS AND LABOR WARRANTY. WET WELL TO BE A 5' DIAMETER, 14.60' DEEP FIBERGLASS BASIN WITH CONCRETE BALLAST, STAINLESS STEEL PIPING, AND ALUMINUM ACCESS HATCHES PROVIDING 30"X48" CLEAR OPENING.. EXTERNAL VALVE PIT TO HAVE GATE VALVES, CHECK VALVES, AND QUICK DISCONNECT, ALUMINUM ACCESS HATCHES PROVIDING 30"X48" CLEAR OPENING. VALVES TO BE CAST IRON.. FLOATS SHALL BE MERCURY SWITCH TYPE S WITH INTERNAL WEIGHTS. NEMA WEATHERPROOF ENCLOSURE WITH BEACON MOUNTED ON A GALVANIZED POST OR MOUNTED ON THE SIDE OF THE BUILDING. INSTALL A 3" PVC SCHD 40 VENT PIPE FROM THE WET WELL TO THE BUILDING VENTING SYSTEM. COORDINATE WITH PLUMBING. COORDINATE WITH PLUMBING. BELOW ARE THE WET WELL ELEVATIONS:

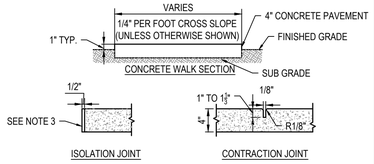
   TOP = 683.75
   ADJACENT GRADE = 683.25
   INFLUENT = 675.93
   HIGHWATER ALARM = 674.93
   PUMP #2 ON = 673.93
   PUMP #1 ON = 672.93
   PUMPS OFF = 671.65
   BOTTOM = 669.15

ALABAMA LICENSED
No. 24443
PROFESSIONAL ENGINEER
CHRISTOPHER ALLEN HILL
12/22/2023

SHEET TITLE:
LAYOUT, GRADING, DRAINAGE & UTILITY PLAN - ALTERNATE

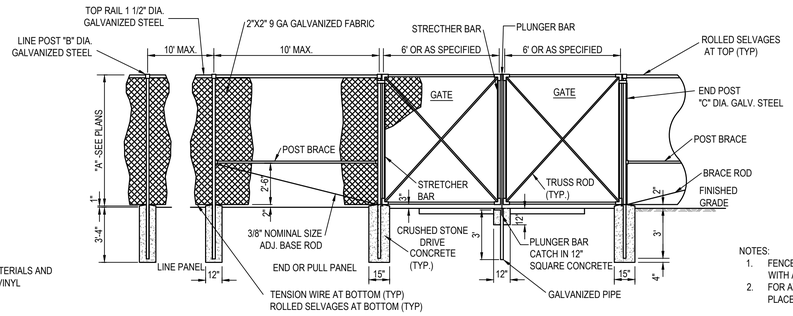
PROJ. MGR.: CAH
DRAWN: CAH
DATE: SEPTEMBER 22, 2023
REVISIONS

JOB NO. 23-63
SHEET NO:
C5
6 OF 7
0 1" 2"



NOTES:
1. CONTRACTION (SAW CUT) JOINTS TO BE EVERY 5 TO 8 FEET WITH A MAXIMUM SPACING OF TWICE THE SLAB THICKNESS IN FEET; CUT TO A DEPTH OF 1" MINIMUM TO 1 ¼" MAXIMUM.
2. CUT CONTRACTION JOINTS BETWEEN 2 HOURS AND 12 HOURS OF CONCRETE PLACEMENT.
3. PLACE ISOLATION JOINTS WHEN ADJACENT TO BUILDINGS, CURBS, ETC. USE A ½" THICK PRE-MOULDED EXPANSION JOINT FILLER CONFORMING TO ASTM D1751 OR D1752 TO CREATE A BOND BREAK. INSTALL JOINT SEALER OVER JOINT FILLER.
4. CONCRETE TO BE 4000 PSI COMPRESSIVE STRENGTH UNLESS OTHERWISE NOTED.
5. PLACE SIDEWALK ON COMPACTED SUBGRADE- 98% STANDARD PROCTOR DENSITY (ASTM D698) UNLESS OTHERWISE NOTED.

TYPICAL SIDEWALK DETAIL
N.T.S.

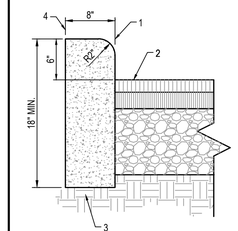


FINISH NOTE:
ALL FENCING FABRIC, FRAME MATERIALS AND ACCESSORIES SHALL BE BLACK VINYL COATED.

"A" HEIGHT	"B" LINE POST	"C" END POST
4'	2.375" DIA.	2.5" DIA
6'	2.375" DIA.	2.5" DIA
8'	2.5" DIA.	3.0" DIA

NOTES:
1. FENCE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALDOT STANDARD SPECIFICATIONS, SECTION 634.
2. FOR ATHLETIC FIELDS, THE FENCE FABRIC SHALL BE PLACED ON THE PLAYING FIELD SIDE OF THE FENCE.

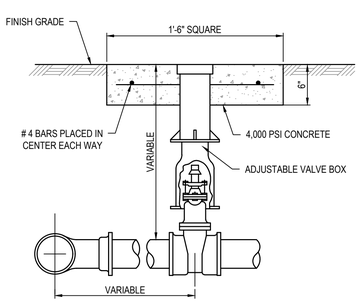
CHAIN LINK FENCE AND GATE
N.T.S.



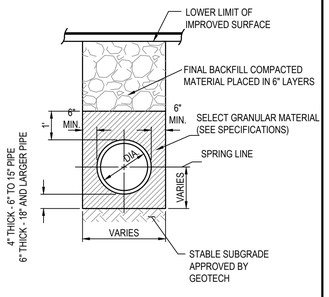
KEYED NOTES:
1. LINE OF FACE OF CURB (CURB GRADE SHOWN ON PLAN)
2. EXISTING TRACK
3. PREPARED SUB-GRADE
4. LINE FOR BACK OF CURB

NOTE:
ALL CURBS TO HAVE 3/4" EXPANSION JOINTS AT MAXIMUM 100 FEET WITH DOWELS AND CONTROL JOINTS AT MAX. 10 FEET.

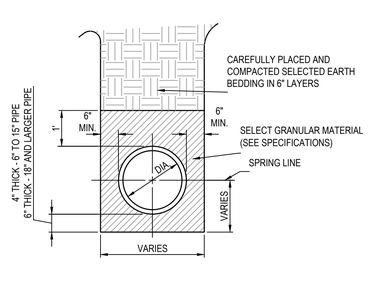
8" HEADER CURB
N.T.S.



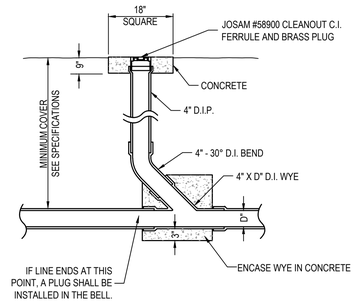
TYPICAL GATE VALVE
N.T.S.



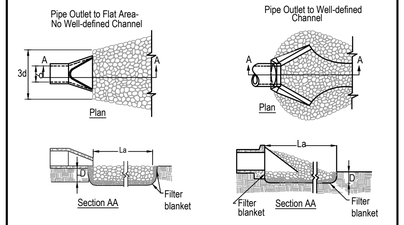
TYPICAL PIPE BEDDING AND INITIAL BACKFILL UNDER IMPROVED SURFACES
N.T.S.



TYPICAL PIPE BEDDING AND INITIAL BACKFILL UNDER UNIMPROVED SURFACES
N.T.S.

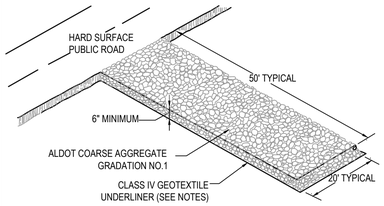


TYPICAL CLEANOUT
N.T.S.

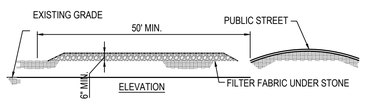


SPECIAL NOTES
1. RIP RAP DISCHARGE APRON SHALL BE INSTALLED AT A ZERO SLOPE.
2. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.
3. DEPTH OF APRON SHALL BE NO LESS THAN 6".
4. FOR DETERMINING APRON LENGTH, WIDTH, AND MEDIAN STONE SIZE, REFER TO FIGURES OP-2 AND OP-3 FROM THE LATEST ALABAMA EROSION CONTROL HANDBOOK.
5. THE GRADATION OF RIPRAP SHALL BE PER TABLES OP-2 AND OP-3 FROM THE LATEST ALABAMA EROSION CONTROL HANDBOOK.

OP **OUTLET PROTECTION**
N.T.S.



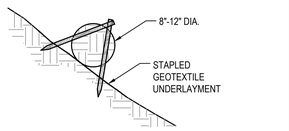
PLAN

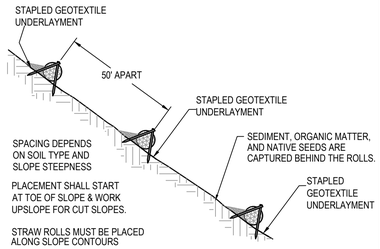


SPECIAL NOTES :

1. A STABILIZED PAD OF CRUSHED STONE SPREAD OVER FILTER FABRIC SHALL BE LOCATED WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC STREET. THE STONE SHALL BE ALDOT GRADATION NO. 1 STONE, FILTER FABRIC SHALL BE NONWOVEN GEOTEXTILE CLASS IV OR EQUAL.
2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
3. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY BY STREET CLEANING (NOT FLUSHING). WHEN NECESSARY, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN.
4. IF THE PAD SLOPE TOWARDS THE ROAD EXCEEDS 2%, A DIVERSION RIDGE 6" - 8" HIGH WITH 3:1 SIDE SLOPES MUST BE CONSTRUCTED ACROSS THE FOUNDATION APPROXIMATELY 15' AWAY FROM THE ROAD AND DRAIN INTO A SEDIMENT TRAP OR BASIN.

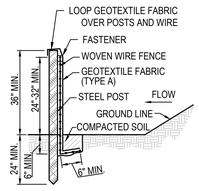
CEP **CONSTRUCTION EXIT PAD**
N.T.S.



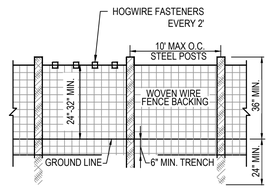


NOTE:
1. WATTLE CHECK DAMS TO BE INSTALLED WITHOUT TRENCHING AND ON TOP OF STAPLED GEOTEXTILE UNDERLAYMENT THAT EXTENDS A MINIMUM 3 FT. UP AND DOWNSTREAM FROM THE WATTLE. WATTLES MUST BE PROPERLY STAPLED WITH SOD STAPLES ON 10-INCH CENTERS ON EACH SIE OF THE WATTLE TO PREVENT FLOTATION AND STAKED OVER THE TOP USING NON-DESTRUCTIVE TEE-PEE TYPE STAKING.
2. STRAW WATTLES SHALL BE INSTALLED ON CONTOUR W/ A SLIGHT DOWNWARD ANGLE AT THE END OF THE ROW IN ORDER TO PREVENT PONDING AT THE MID-SECTION.
3. WATTLES MAY BE A STRAW WATTLE, A CURLEX SEDIMENT LOG, OR APPROVED EQUAL.

SW **WATTLE SLOPE PROTECTION**
N.T.S.



SIDE VIEW



FRONT VIEW

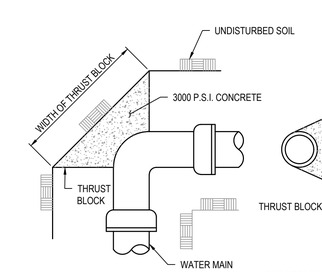
SPECIAL NOTES:
1. SILT FENCE FABRIC SHALL BE PER TABLE SB-1 FROM THE LATEST ALABAMA EROSION CONTROL HANDBOOK.
2. USE D.O.T. APPROVED WOVEN WIRE FENCE.
3. USE 5' MIN. STEEL POSTS (1.3 LB/FT MIN.).

NOTES:
1. THE WOVEN WIRE FENCING SHALL BE FASTENED TO THE UPSTREAM SIDE OF POSTS BY STAPLES OF WIRE TIES.
2. GEOTEXTILE FABRIC SHALL BE SECURELY FASTENED TO THE WOVEN WIRE FENCING.

MAINTENANCE SCHEDULE:
REMOVE SEDIMENT DEPOSITS WHEN THEY REACH A DEPTH OF 15" OR 1/2 THE HEIGHT OF THE FENCE AS INSTALLED TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. SHOULD THE FABRIC OR SILT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.

SB **SILT FENCE - TYPE A**
N.T.S.

ADEM



END AREA OF THRUST BLOCK (IN SQUARE FEET) = THRUST (AT FITTING) / SOIL BEARING LOAD (AT FITTING) X 1.5

NOTE: THE WIDTH OF THE THRUST BLOCK SHALL BE 2X THE DEPTH OF THE THRUST BLOCK.

THRUST AT FITTINGS IN POUNDS*

PIPE SIZE	90° BEND	45° BEND	22.5° BEND	TEE OR PLUG
4"	2,666	1,443	735	1,885
6"	5,998	3,246	1,655	4,241
8"	10,663	5,771	2,942	7,540
10"	16,661	9,017	4,597	11,781
12"	23,992	12,984	6,619	16,965
14"	32,655	17,673	9,010	23,091
16"	42,652	23,083	11,768	30,160
18"	53,981	29,214	14,893	38,170
20"	66,643	36,067	18,387	47,124
24"	95,966	51,937	26,477	67,858

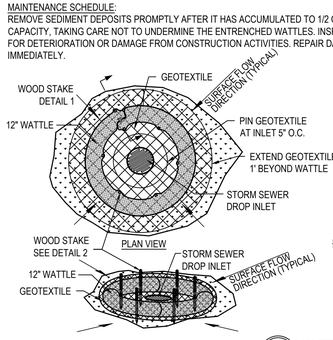
*BASED ON 150 PSI TEST PRESSURE

SOIL BEARING LOAD

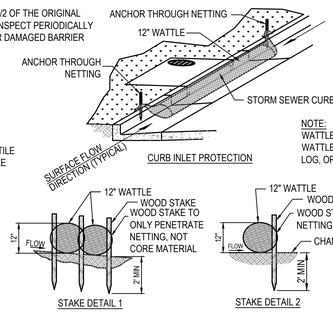
SOIL	BEARING LOAD P.S.F.
MUCK	0
SOFT CLAY	1,000
SILT	1,500
SANDY SILT	3,000
SAND	4,000
SANDY CLAY	6,000
HARD PAN	9,000

TYPICAL THRUST BLOCK
N.T.S.

MAINTENANCE SCHEDULE:
REMOVE SEDIMENT DEPOSITS PROMPTLY AFTER IT HAS ACCUMULATED TO 1/2 OF THE ORIGINAL CAPACITY, TAKING CARE NOT TO UNDERMINE THE ENTRENCHED WATTLES. INSPECT PERIODICALLY FOR DETERIORATION OR DAMAGE FROM CONSTRUCTION ACTIVITIES. REPAIR DAMAGED BARRIER IMMEDIATELY.



DROP INLET PROTECTION



CURB INLET PROTECTION

NOTE:
WATTLES MAY BE A STRAW WATTLE, A CURLEX SEDIMENT LOG, OR APPROVED EQUAL.

STAKE DETAIL 1

STAKE DETAIL 2

WIP **WATTLE INLET RPOTECTION**
N.T.S.

LBYD ENGINEERS
LBYD, Inc.
Civil and Structural Engineers
880 Montclair Road
Suite 600
Birmingham, AL 35213
Main (205) 251-4500
PROJECT NO.
133172.001

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11 . CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

ALABAMA LICENSED No. 24443 PROFESSIONAL ENGINEER CHRISTOPHER ALLEN
10/22/2023

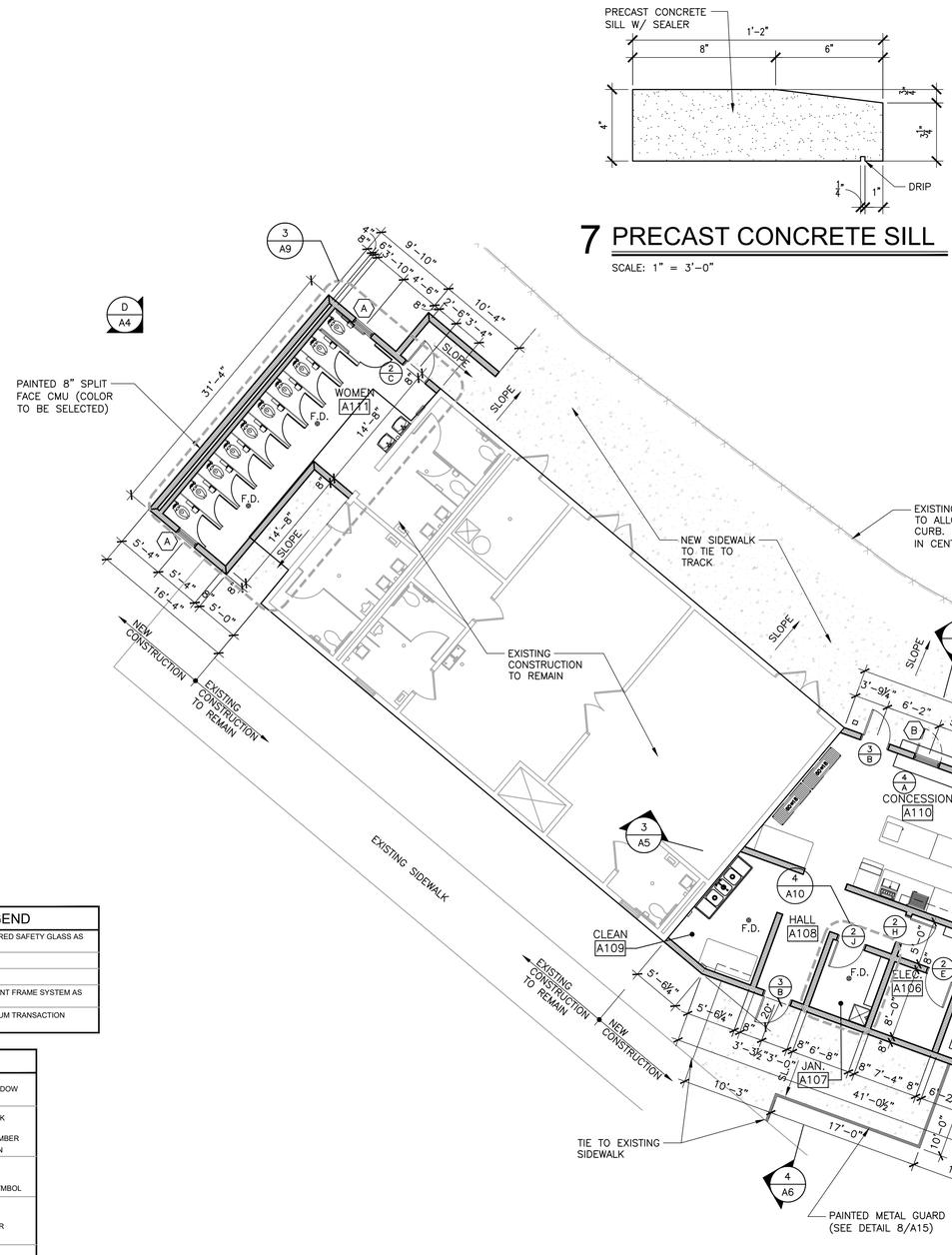
SHEET TITLE:
CIVIL DETAILS

PROJ. MGR.: CAH
DRAWN: CAH
DATE: SEPTEMBER 22, 2023
REVISIONS

JOB NO. 23-63

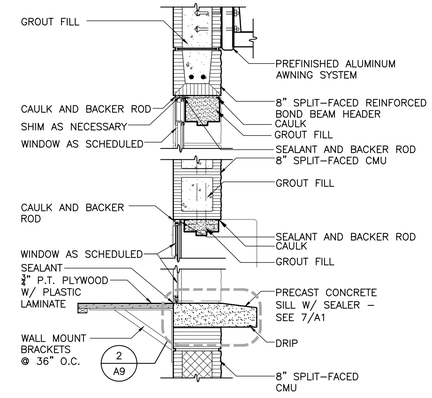
SHEET NO:
C6
7 OF 7

0 1" 2"



1 MAIN LEVEL FLOOR PLAN

1/8" = 1'-0"

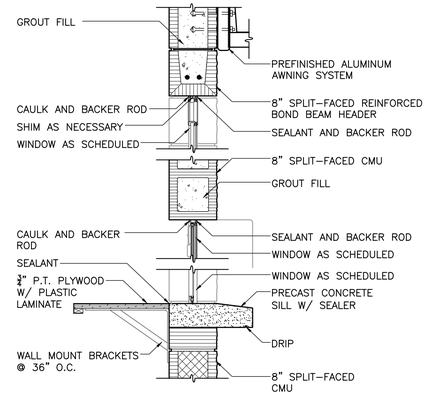


7 PRECAST CONCRETE SILL

SCALE: 1" = 3'-0"

6 WINDOW FRAME DETAIL

SCALE: 1" = 1'-0"



5 TRANSACTION WINDOW DETAIL

SCALE: 1" = 1'-0"

DOOR AND WINDOW LEGEND

TSG	1" TINTED INSULATED LOW-E TEMPERED SAFETY GLASS AS SPEC.
HMD	HOLLOW METAL DOOR
HMF	HOLLOW METAL FRAME
ASF	PREFINISHED ALUMINUM STOREFRONT FRAME SYSTEM AS SPECIFIED.
ATW	PREFINISHED SINGLE HUNG ALUMINUM TRANSACTION WINDOW.

SYMBOLS LEGEND

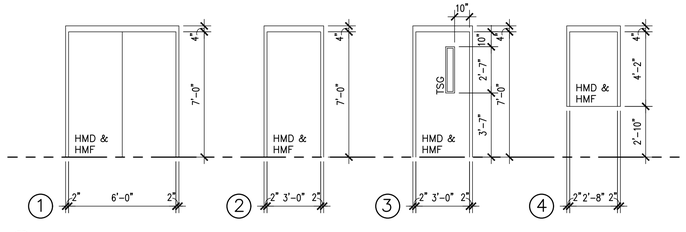
A200 ROOM NUMBER	A EXTERIOR WINDOW
FEC RECESSED FIRE EXTINGUISHER CABINET WITH EXTINGUISHER	1 ELEV. MARK; A5.1 SHEET NUMBER; INT. ELEVATION
FE SURFACE MOUNT FIRE EXTINGUISHER	1C DOOR TYPE; A DOOR RATING; HARDWARE SYMBOL
F.D. FLOOR DRAIN	A ELEV. MARK; A.1 SHEET NUMBER
CJ CONTROL JOINT	1 SECT. MARK; A.1 SHEET NUMBER
AREA OF CONCRETE	
NEW DOOR AND SWING	

GENERAL NOTES

- EXTEND AND KEY RATED WALLS TO BOTTOM OF FLOOR STRUCTURE OR ROOF DECK ABOVE. SEE LIFE SAFETY DRAWINGS FOR RATED WALL LOCATIONS.
- ALL PLAN DIMENSIONS ARE TO FACE OF CMU WALL OR FACE OF STUD WALL UNLESS NOTED OTHERWISE
- SLOPE FINISH FLOOR TO FLOOR DRAINS. SEE PLUMBING FOR LOCATIONS OF FLOOR DRAINS.
- ALL OUTSIDE CMU CORNERS SHALL BE BULL-NOSE AS DETAILED.
- PROVIDE SLOPE FOR POSITIVE DRAINAGE IN AREAS WITH FLOOR DRAINAGE SYSTEM.
- FILL AND REPAIR ALL TRENCHED AREAS OF EXISTING CONCRETE FLOOR SYSTEM TO BLEND WITH EXISTING TO REMAIN.

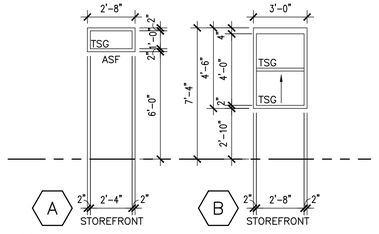
WALL TYPE LEGEND

NEW CMU WALL	CONCRETE MASONRY WALL SEE PLAN FOR WALL WIDTH CHANGES SEE LIFE SAFETY PLAN FOR FIRE RATING
EXISTING	EXISTING TO REMAIN



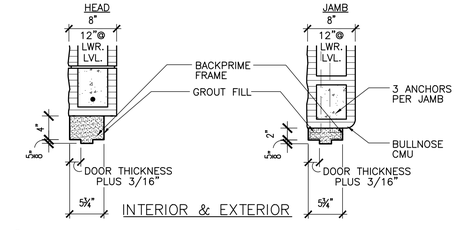
2 DOOR AND FRAME SCHEDULE

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



3 WINDOW SCHEDULE

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



4 H.M. FRAME DETAILS @ DOOR HEAD AND JAMB

SCALE: 1" = 1'-0"

LATHAN ARCHITECTS

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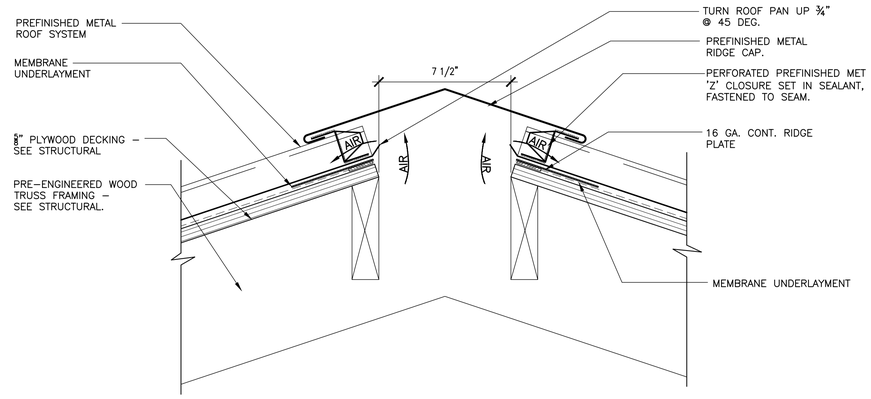
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11 , CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

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

SHEET TITLE:
MAIN LEVEL FLOOR PLAN & DETAILS

PROJ. MGR.: R. LATHAN
DRAWN: JWW
Rasco
DATE: SEPTEMBER 22, 2023
REVISIONS

JOB NO. 23-63
SHEET NO:
A1
1 OF 16



4 RIDGE VENT DETAIL

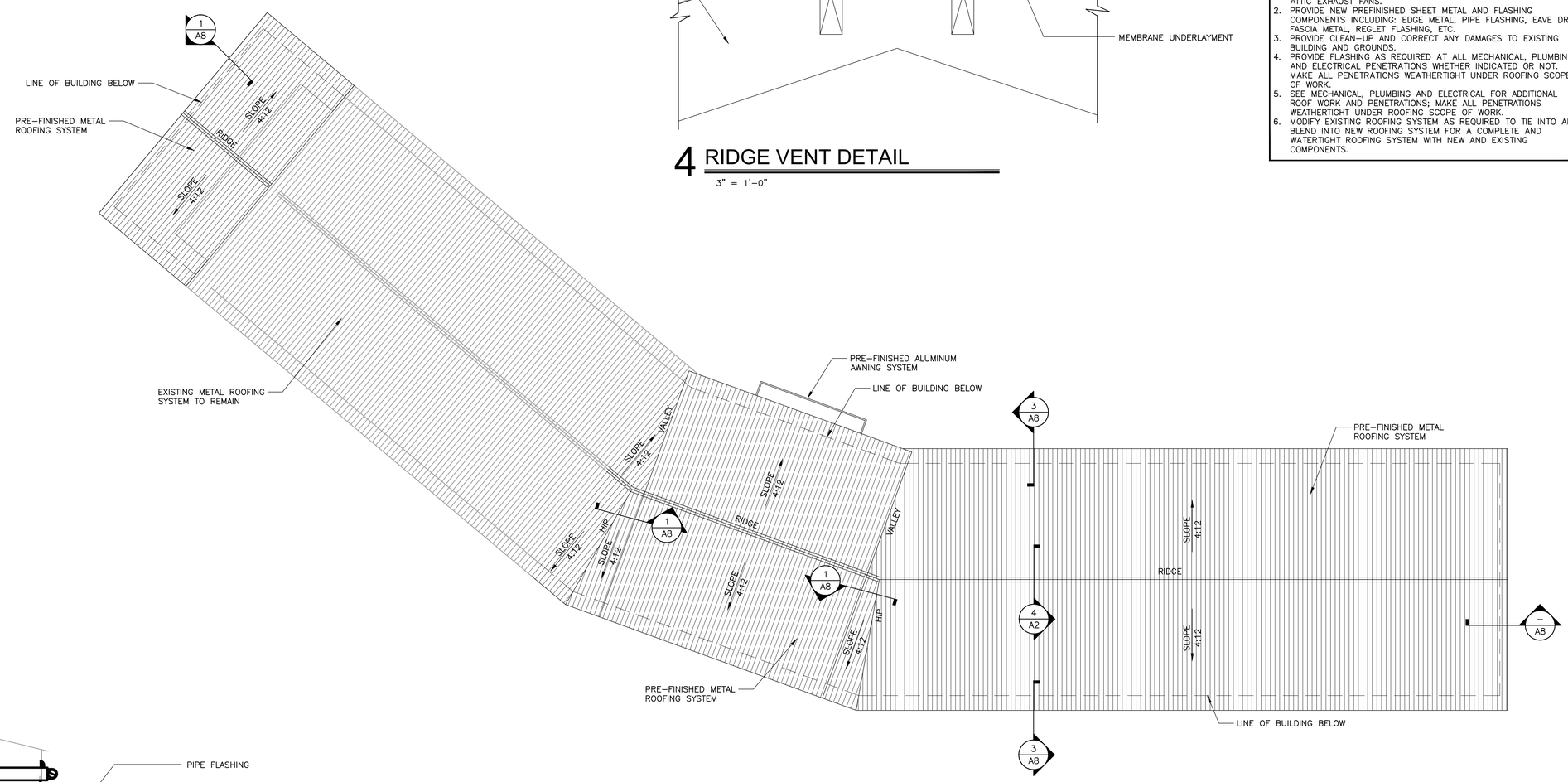
3" = 1'–0"

NEW STANDING SEAM ROOF SCOPE OF WORK

1. PROVIDE ROOF DECKING SYSTEM AS INDICATED BY STRUCTURAL.
2. PROVIDE BLOCKING, FASCIA BOARDS ETC. AS INDICATED AND REQUIRED.
3. PROVIDE ICE AND WATER SHIELD IN ALL VALLEYS, PERIMETERS, AND ALONG PARAPET WALLS REGARDLESS OF SLOPE AS INDICATED IN SPECIFICATIONS.
4. PROVIDE MEMBRANE UNDERLAYMENT INSTALLED PER MANUFACTURER'S APPROVED GUIDELINES.
5. PROVIDE PRE–FINISHED METAL ROOFING SYSTEM AS SPECIFIED. INSTALLED IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
6. PROVIDE PREFINISHED METAL FLASHING SYSTEM AT CONNECTOR TO THE EXISTING BUILDING AS REQUIRED.

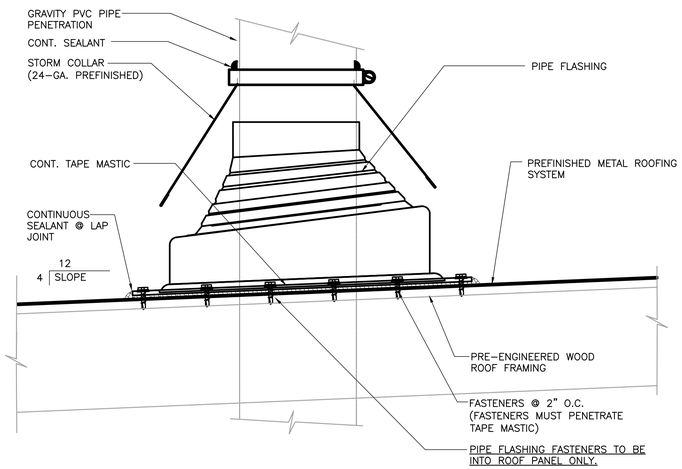
GENERAL ROOF NOTES

1. INSURE ADEQUATE CIRCULATION IS PROVIDED FOR ALL AREAS, INSURE UNOBSTRUCTED SOFFIT VENTS AND PROPERLY OPERATING ATTIC EXHAUST FANS.
2. PROVIDE NEW PREFINISHED SHEET METAL AND FLASHING COMPONENTS INCLUDING: EDGE METAL, PIPE FLASHING, EAVE DRIPS, FASCIA METAL, REGLET FLASHING, ETC.
3. PROVIDE CLEAN–UP AND CORRECT ANY DAMAGES TO EXISTING BUILDING AND GROUNDS.
4. PROVIDE FLASHING AS REQUIRED AT ALL MECHANICAL, PLUMBING AND ELECTRICAL PENETRATIONS WHETHER INDICATED OR NOT. MAKE ALL PENETRATIONS WEATHERTIGHT UNDER ROOFING SCOPE OF WORK.
5. SEE MECHANICAL, PLUMBING AND ELECTRICAL FOR ADDITIONAL ROOF WORK AND PENETRATIONS; MAKE ALL PENETRATIONS WEATHERTIGHT UNDER ROOFING SCOPE OF WORK.
6. MODIFY EXISTING ROOFING SYSTEM AS REQUIRED TO TIE INTO AND BLEND INTO NEW ROOFING SYSTEM FOR A COMPLETE AND WATERTIGHT ROOFING SYSTEM WITH NEW AND EXISTING COMPONENTS.



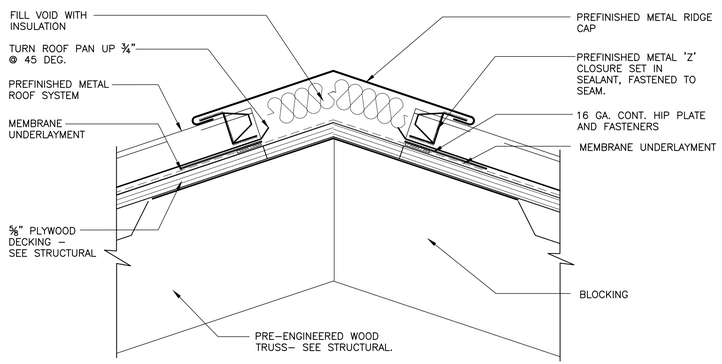
1 ROOF PLAN

1/8" = 1'–0"



2 PLUMBING VENT PENETRATION

3" = 1'–0"



3 HIP DETAIL TYPICAL

3" = 1'–0"

ROOF LEGEND

DETAIL NUMBER / SHEET NUMBER — ROOF DETAIL MARKER

DIRECTION OF DOWNWARD SLOPE (14:12) — RISE:RUN ROOF SLOPE MARKER

EXISTING ROOF SYSTEM — NEW METAL ROOF SYSTEM

DS	EXISTING DOWNSPOUT	N.I.C.	NOT IN CONTRACT
RD	ROOF DRAIN	PV	PLUMBING VENT
OD	OVERFLOW DRAIN	SB	SPLASH BLOCK
G	EXISTING GUTTER	DV	DORMER VENT
GEJ	GUTTER EXPANSION JOINT	OFN	OVERFLOW NOZZLE
BT	BOOT		

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11 , CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

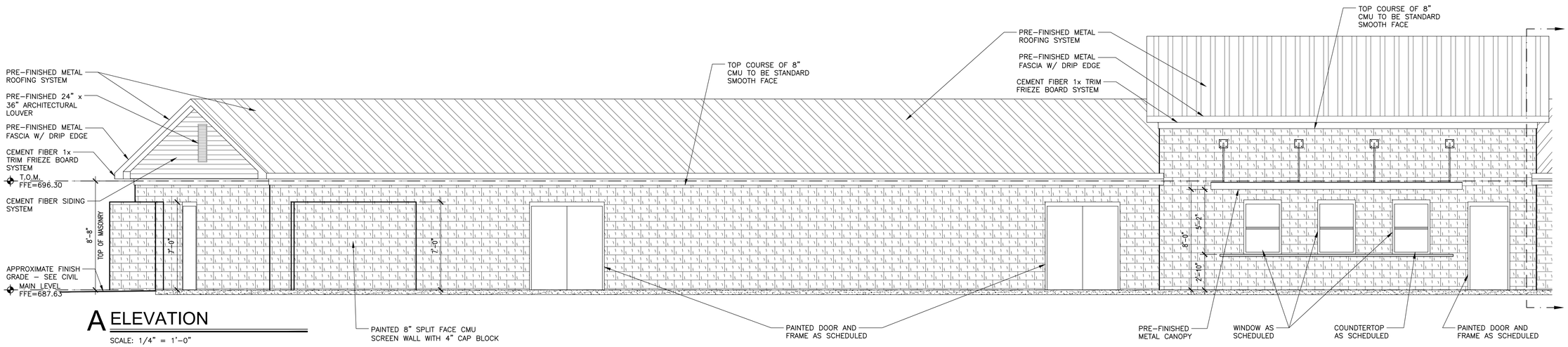
STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

SHEET TITLE:
ROOF PLAN AND DETAILS

PROJ. MGR.: R. LATHAN
DRAWN: JWW
Rasco
DATE: SEPTEMBER 22, 2023
REVISIONS

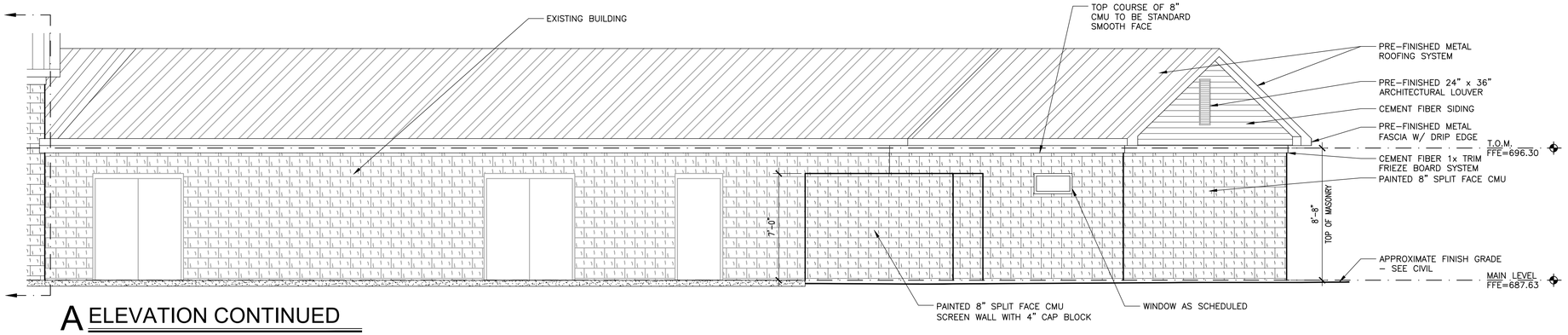
JOB NO. 23-63
SHEET NO:
A2
2 OF 16

0 1" 2"



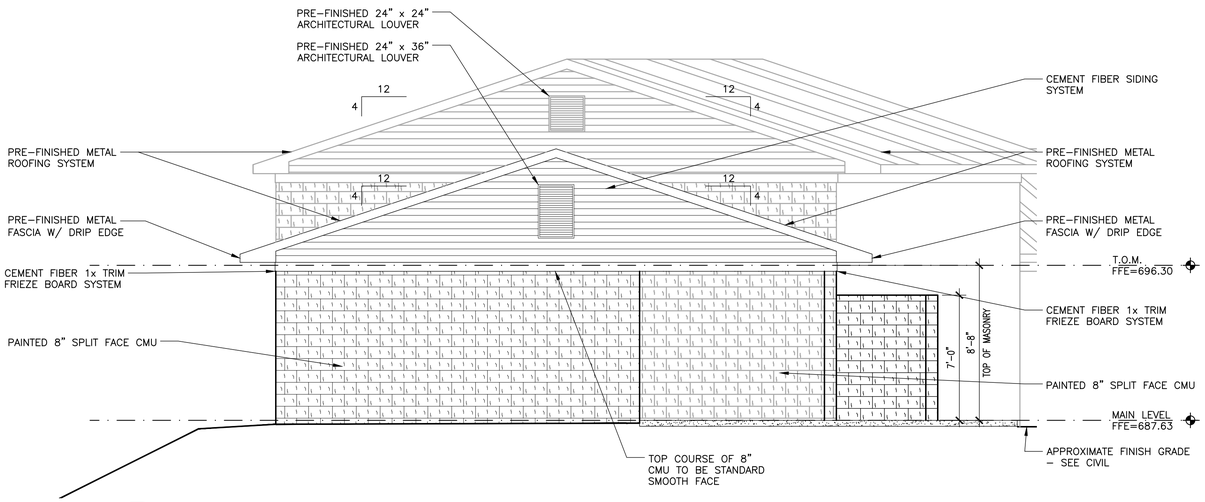
A ELEVATION

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



A ELEVATION CONTINUED

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



B ELEVATION

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

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11, CHELSEA, ALABAMA 35043
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STATE OF ALABAMA
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RICK N. LATHAN
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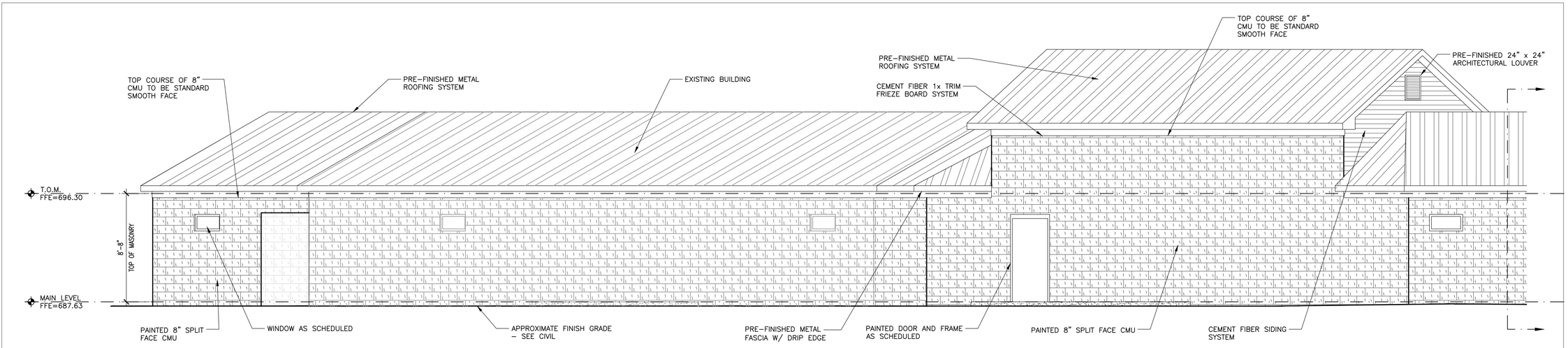
SHEET TITLE:
ELEVATIONS

PROJ. MGR.: R. LATHAN
DRAWN: JWW
Rasco
DATE: SEPTEMBER 22, 2023
REVISIONS

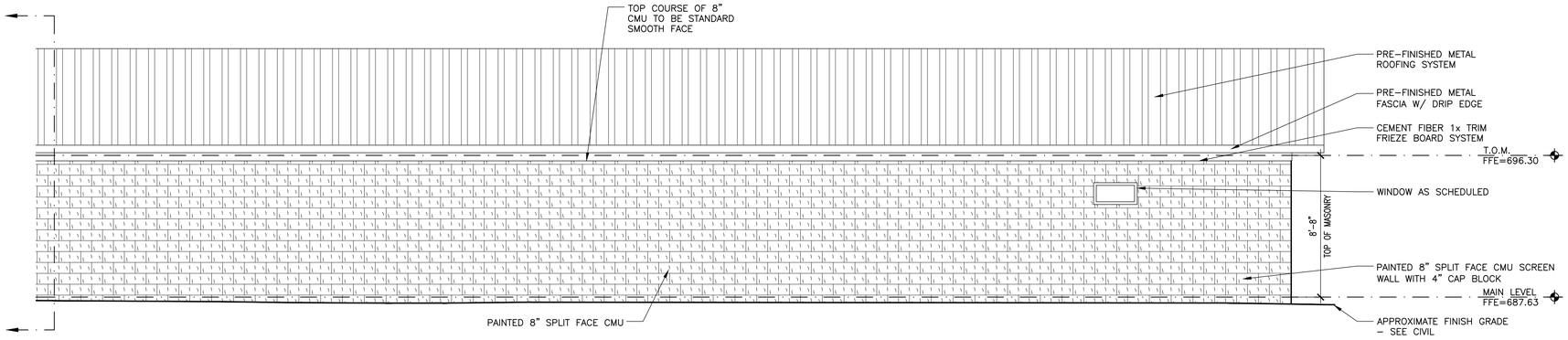
JOB NO. 23-63
SHEET NO:
A3
3 OF 16

0 1" 2"



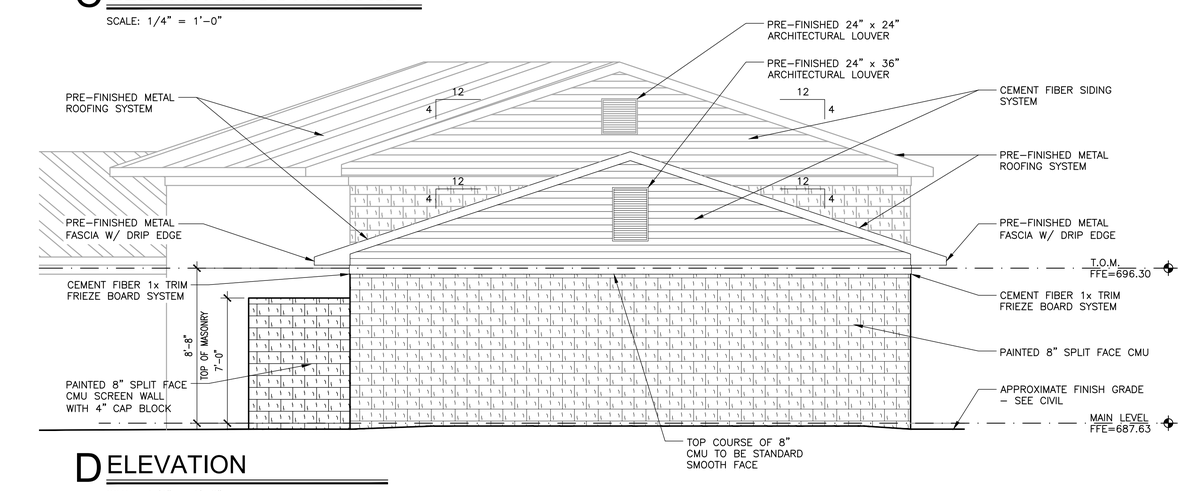
C ELEVATION

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



C ELEVATION CONTINUED

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



D ELEVATION

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

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11, CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

STATE OF ALABAMA
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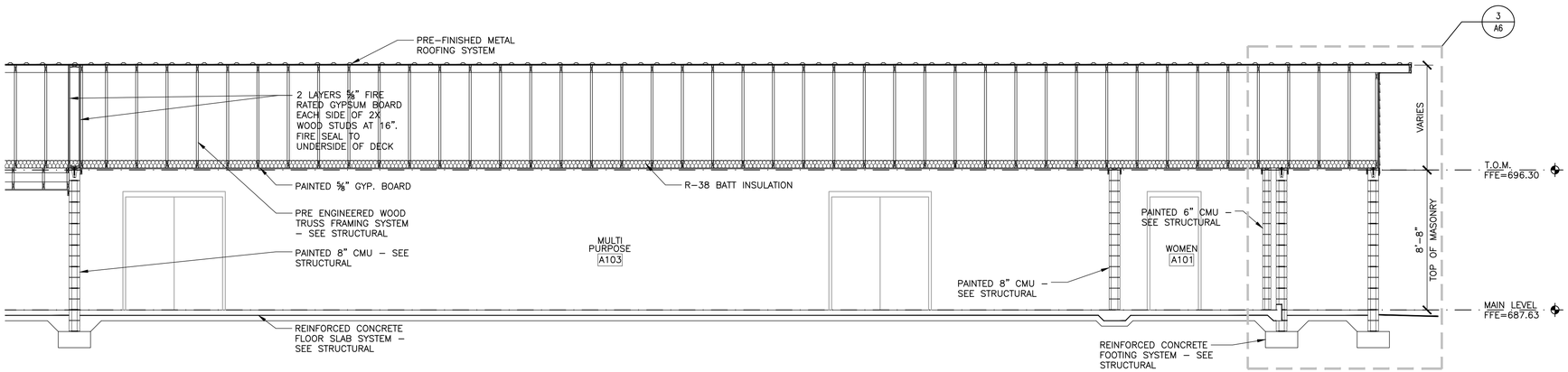
RICK N. LATHAN
REGISTERED ARCHITECT

SHEET TITLE:
ELEVATIONS

PROJ. MGR.: R. LATHAN
DRAWN: JWW
Rasco
DATE: SEPTEMBER 22, 2023
REVISIONS

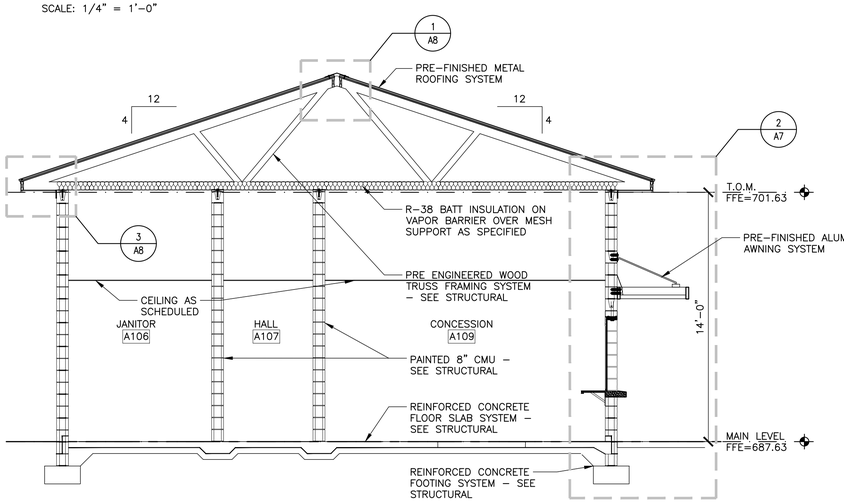
JOB NO. 23-63
SHEET NO:
A4
4 OF 16

0 1" 2"



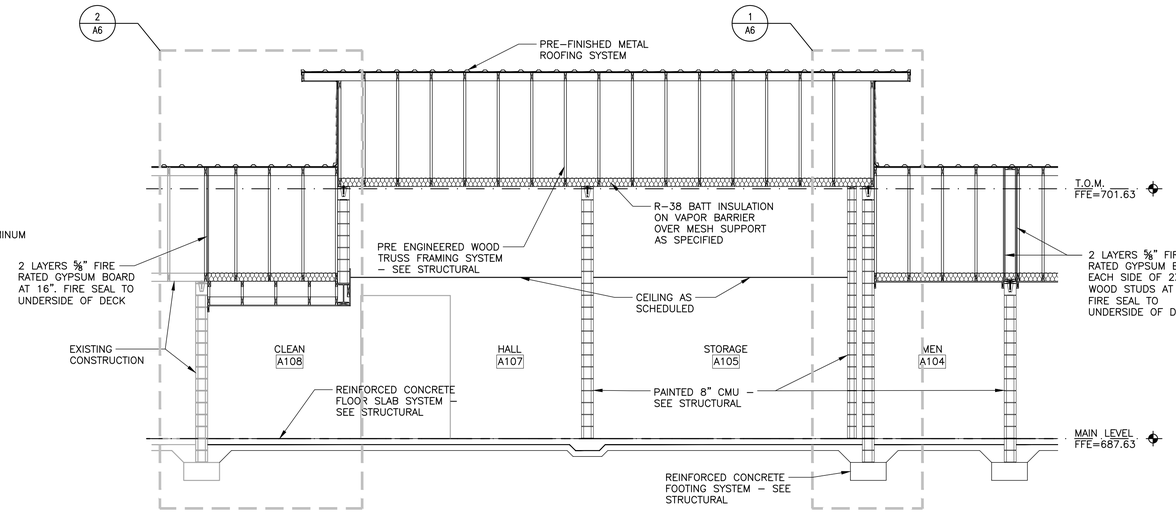
1 BUILDING SECTION

SCALE: 1/4" = 1'–0"



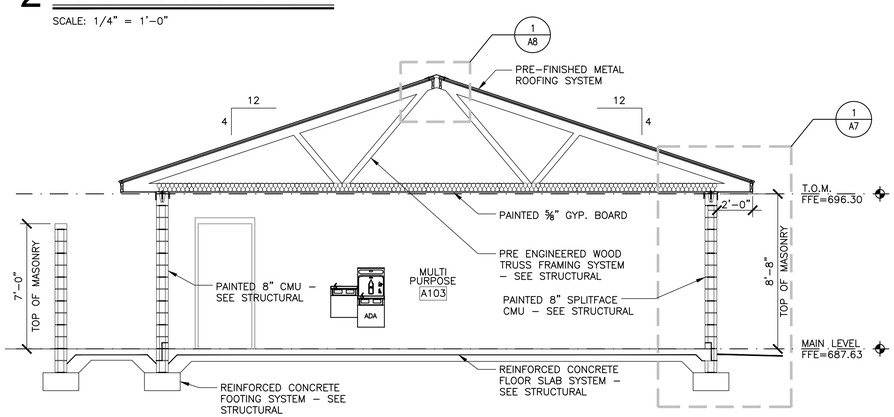
2 BUILDING SECTION

SCALE: 1/4" = 1'–0"



3 BUILDING SECTION

SCALE: 1/4" = 1'–0"



4 BUILDING SECTION

SCALE: 1/4" = 1'–0"

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11 , CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

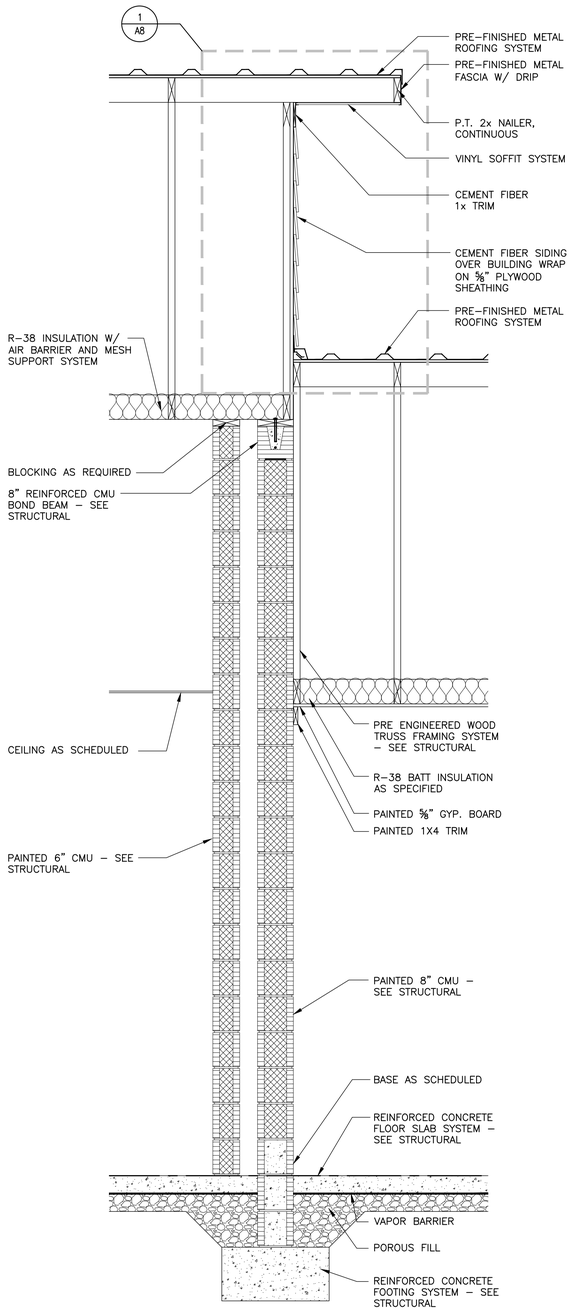
STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

SHEET TITLE:
BUILDING SECTIONS

PROJ. MGR.: R. LATHAN
DRAWN: JWW
Rasco
DATE: SEPTEMBER 22, 2023
REVISIONS

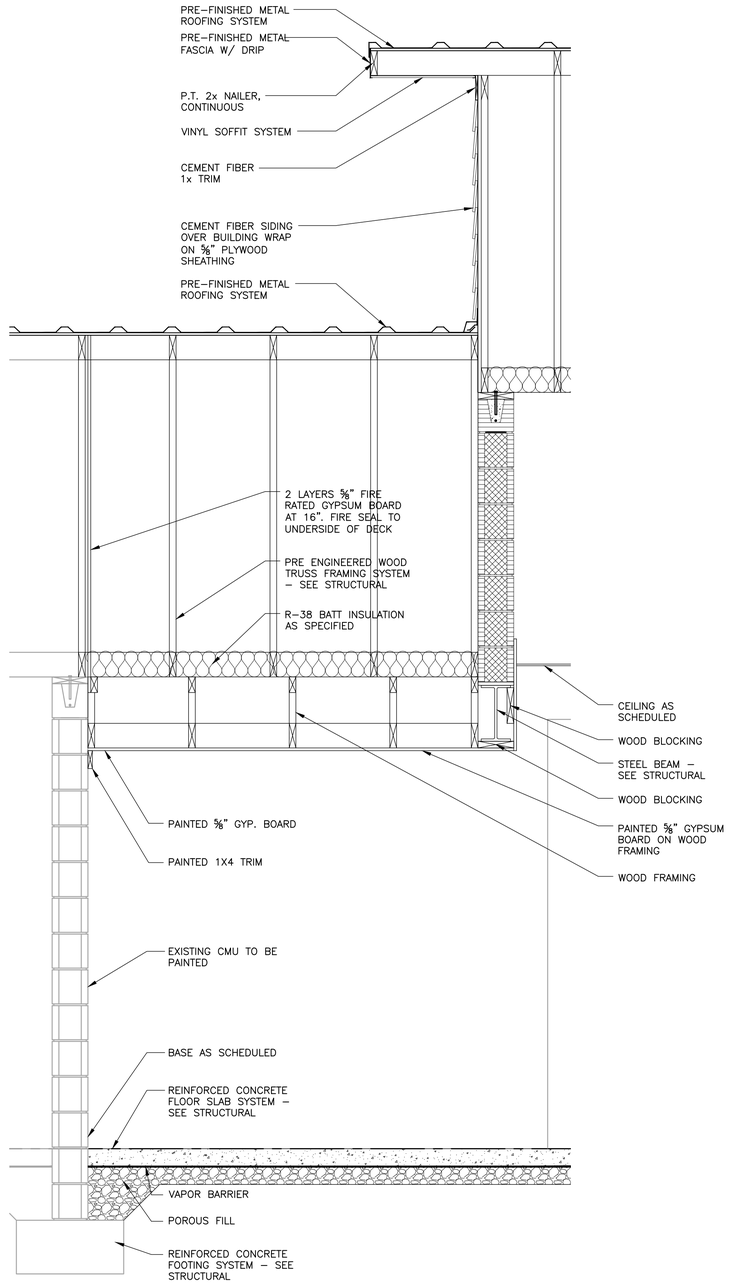
JOB NO. 23-63
SHEET NO:
A5
5 OF 16

0 1" 2"



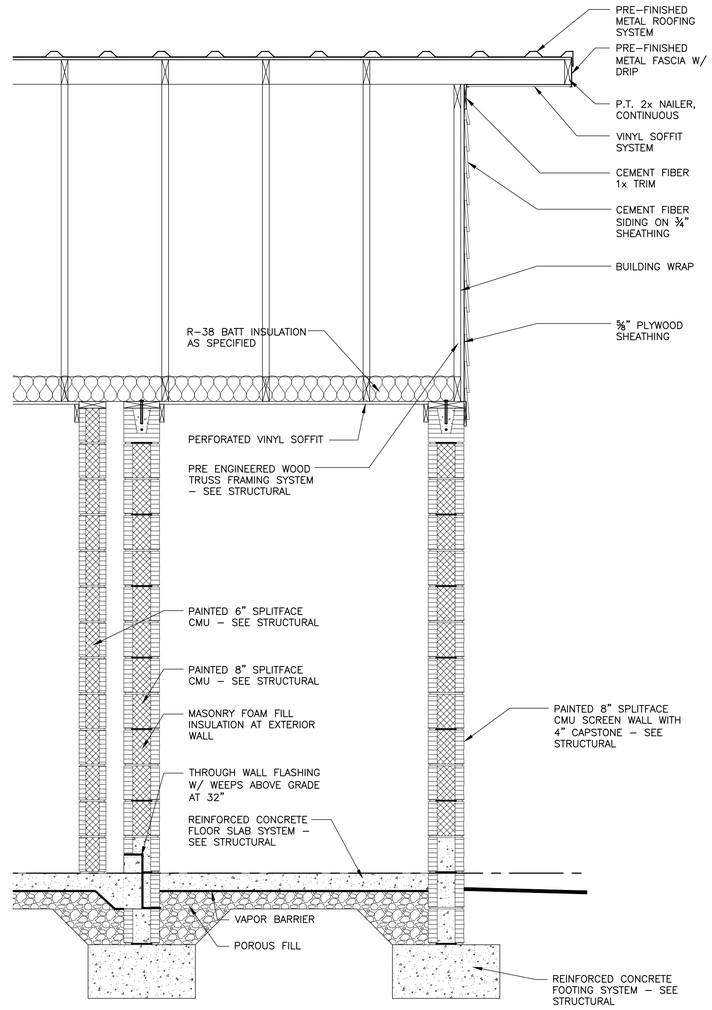
1 WALL SECTION

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



2 WALL SECTION

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



3 WALL SECTION

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

LATHAN
ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11, CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

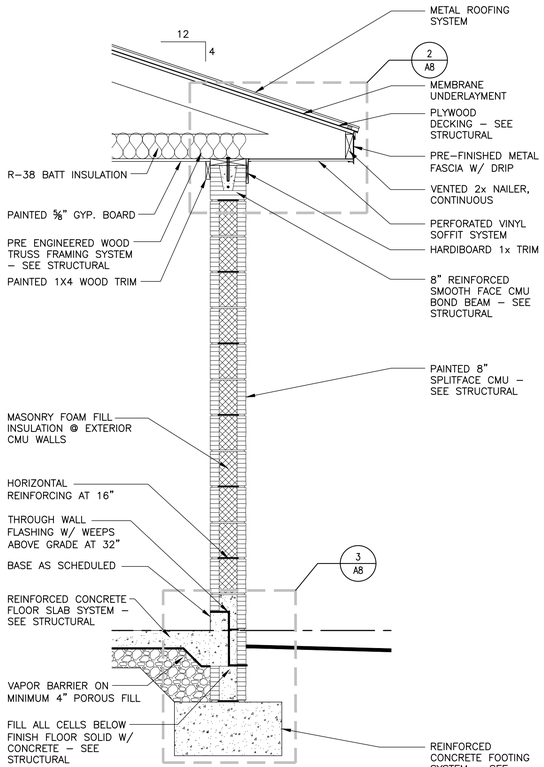
STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

SHEET TITLE:
WALL SECTIONS & DETAILS

PROJ. MGR.: R. LATHAN
DRAWN: JWW
Blasco
DATE: SEPTEMBER 22, 2023
REVISIONS

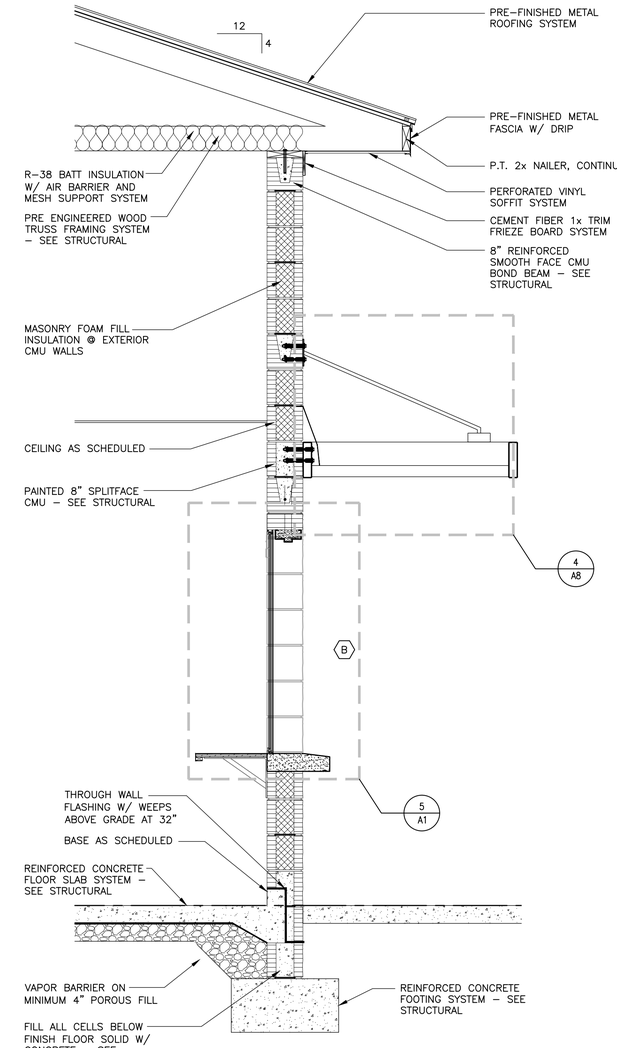
JOB NO. 23-63
SHEET NO:
A6
7 OF 16

0 1" 2"



1 WALL SECTION

SCALE: 3/4" = 1'–0"



2 WALL SECTION

SCALE: 3/4" = 1'–0"

LATHAN
ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11 , CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

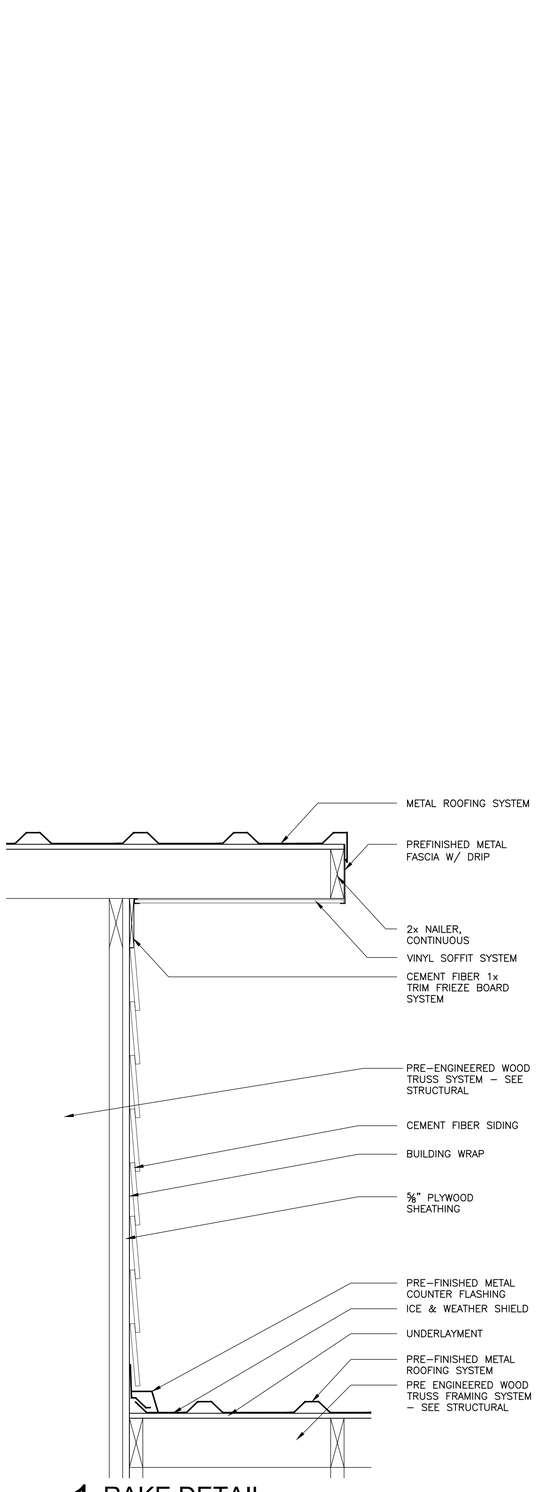
STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

SHEET TITLE:
WALL SECTIONS & DETAILS

PROJ. MGR.: R. LATHAN
DRAWN: JWW
ERasco
DATE: SEPTEMBER 22, 2023
REVISIONS

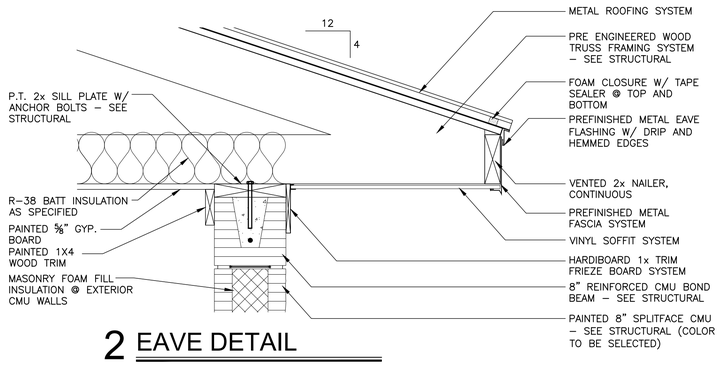
JOB NO. 23-63
SHEET NO:
A7
8 OF 16

0 1" 2"



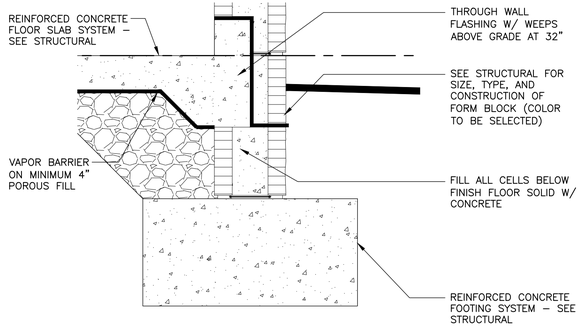
1 RAKE DETAIL

SCALE: 1–1/2" = 1'–0"



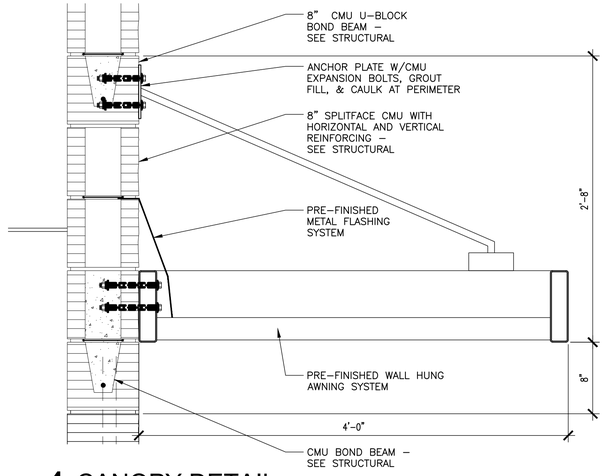
2 EAVE DETAIL

SCALE: 1–1/2" = 1'–0"



3 FOOTING DETAIL

SCALE: 1–1/2" = 1'–0"



4 CANOPY DETAIL

SCALE: 1–1/2" = 1'–0"

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11 , CHELSEA, ALABAMA 35043
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PROJ. MGR.: R. LATHAN
DRAWN: JWW
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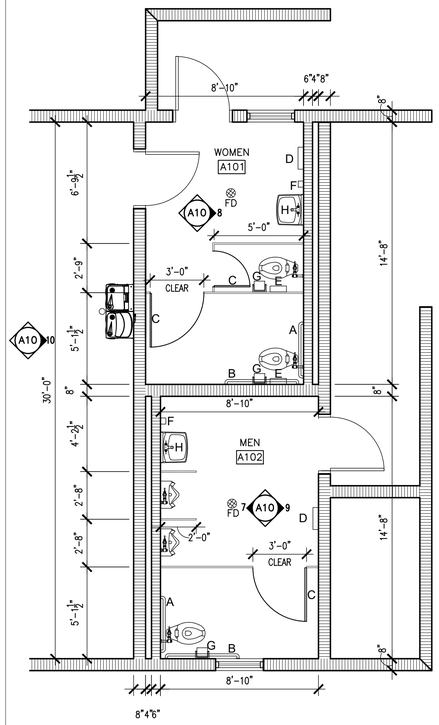
REVISIONS

JOB NO. 23-63
SHEET NO:
A8
9 OF 16

0 1" 2"

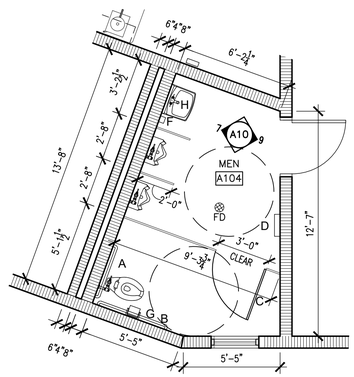
TOILET ACCESSORY LEGEND	
A	36" S.S. GRAB BAR
B	42" S.S. GRAB BAR
C	COAT HOOK (SHALL BE MOUNTED INSIDE STALL DOOR)
D	PAPER TOWEL DISPENSER (OWNER PROVIDED, CONTRACTOR INSTALLED)
E	FEMININE NAPKIN DISPOSAL
F	SOAP DISPENSER - SURFACE MOUNT (OWNER PROVIDED, CONTRACTOR INSTALLED)
G	TOILET TISSUE DISPENSER (OWNER PROVIDED, CONTRACTOR INSTALLED)
H	FRAMED MIRROR 18" X 30"
J	MOP SINK
K	MOP AND BROOM HOLDER

NOTE:
1. ITEMS LABELED "(N.I.C.) BY OWNER - ARE TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE GENERAL CONTRACTOR.



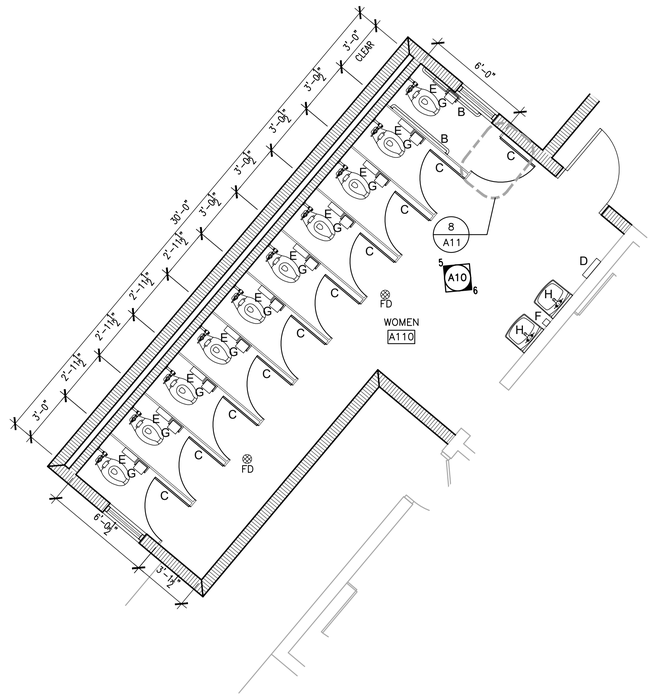
1 ENLARGED FLOOR PLAN @ WOMEN A101 AND MEN A102

1/4" = 1'-0"



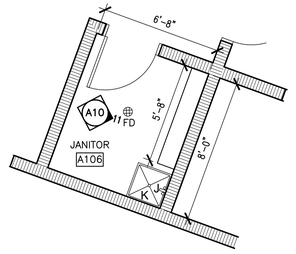
2 ENLARGED FLOOR PLAN @ MEN A104

1/4" = 1'-0"



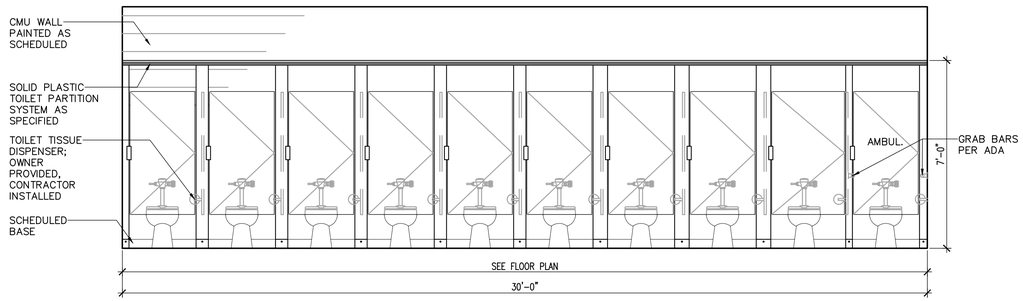
3 ENLARGED FLOOR PLAN @ WOMEN A110

1/4" = 1'-0"



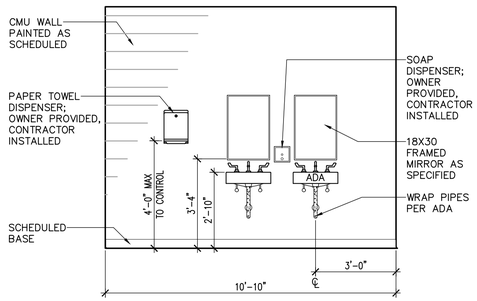
4 ENLARGED FLOOR PLAN @ JANITOR A106

1/4" = 1'-0"



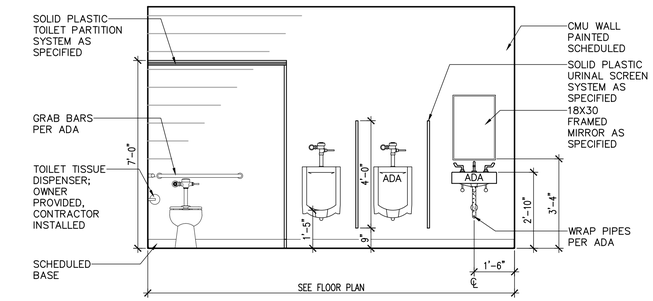
5 INTERIOR ELEVATION @ WOMEN A110

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



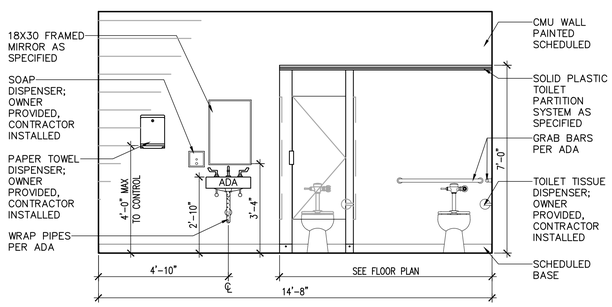
6 INTERIOR ELEVATION @ WOMEN A110

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



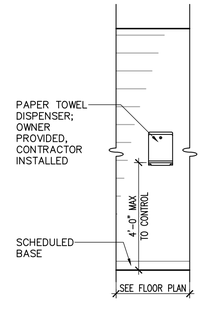
7 INTERIOR ELEVATION @ MEN A102 AND MEN A104

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



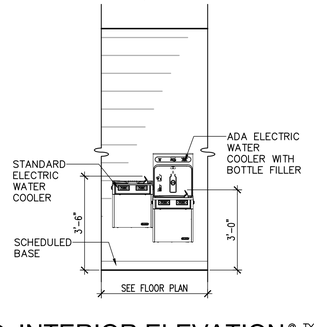
8 INTERIOR ELEVATION @ WOMEN A101

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



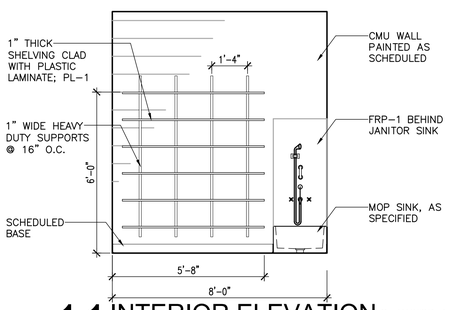
9 INTERIOR ELEVATION @ TYPICAL PAPER TOWEL DISPENSER

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



10 INTERIOR ELEVATION @ TYPICAL ELECTRIC WATER COOLER

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



11 INTERIOR ELEVATION @ JANITOR A107

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

LATHAN ARCHITECTS

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CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11, CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

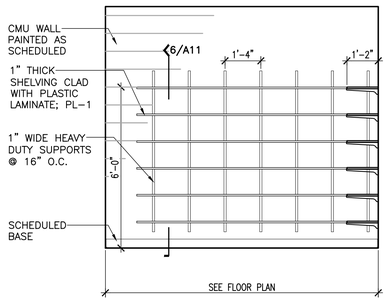
STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

SHEET TITLE:
ENLARGED TOILET PLANS, INTERIOR ELEVATIONS, AND LEGEND

PROJ. MGR.: R. LATHAN
DRAWN: K. SIMPSON
Basco
DATE: SEPTEMBER 22, 2023
REVISIONS

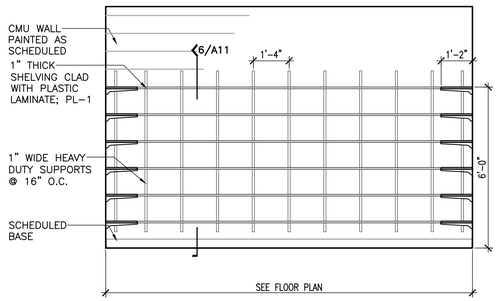
JOB NO. 23-63
SHEET NO:
A9
10 OF 16

0 1" 2"



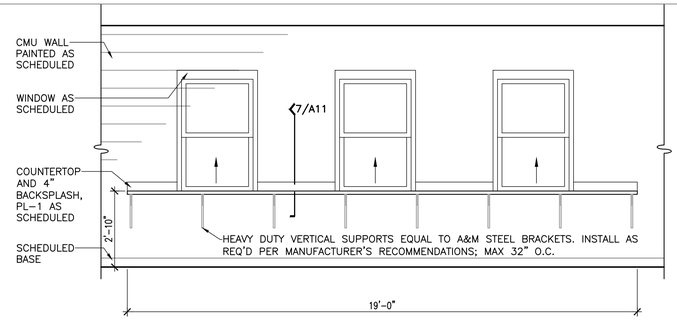
1 INTERIOR ELEVATION @ STORAGE A105

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



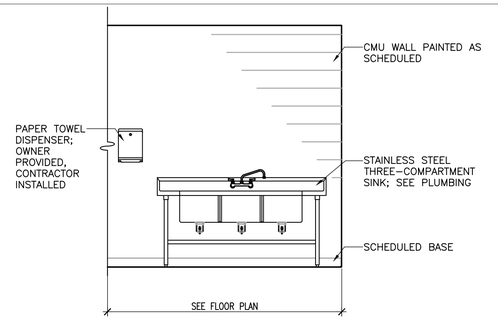
2 INTERIOR ELEVATION @ STORAGE A105

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



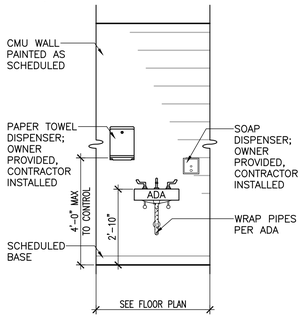
3 INTERIOR ELEVATION @ CONCESSIONS A110

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



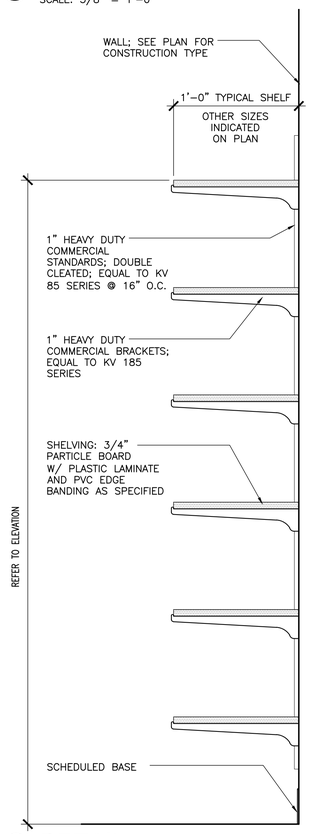
4 INTERIOR ELEVATION @ CONCESSIONS A110

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



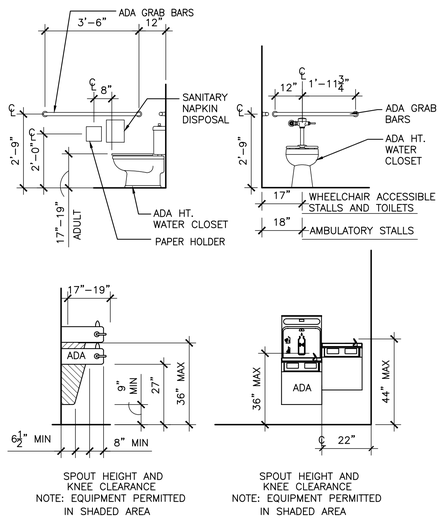
5 INTERIOR ELEVATION @ CONCESSIONS A110

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



6 DETAIL @ ADJUSTABLE STORAGE

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

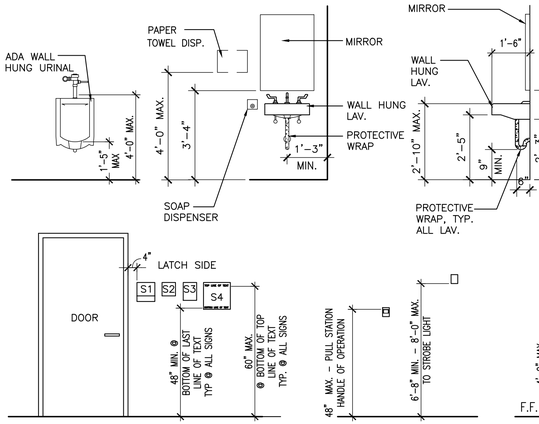


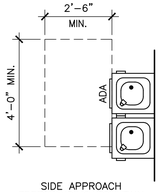
SPOUT HEIGHT AND KNEE CLEARANCE
NOTE: EQUIPMENT PERMITTED IN SHADED AREA

SPOUT HEIGHT AND KNEE CLEARANCE
NOTE: EQUIPMENT PERMITTED IN SHADED AREA

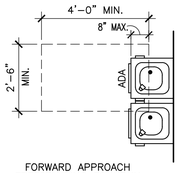
TYPICAL ADA DETAILS

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





SIDE APPROACH FREESTANDING FOUNTAIN or COOLER

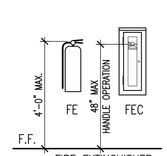


FORWARD APPROACH FREESTANDING FOUNTAIN or COOLER

SIGNAGE LEGEND:
A – OFFICES, CLASSROOMS, INSTRUCTIONAL AREAS SIGNAGE
B – OTHER INTERIOR DOOR SIGNAGE
C – RESTROOM SIGNAGE W/ PICTOGRAM
D – EXTERIOR SIGNAGE

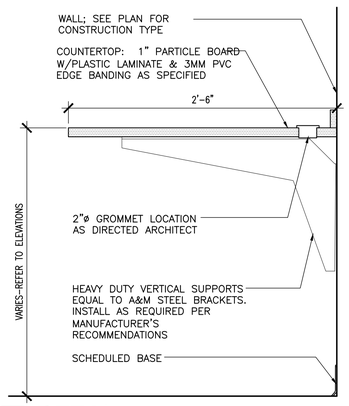
NOTE:
1. TYPICAL SIGNAGE LOCATION AND HEIGHTS SHOWN. SEE SPECIFICATIONS FOR SIGN SIZE AND REQUIREMENTS.
2. ALIGN TOP OF ALL SIGNS AS SHOWN, TYPICAL UNLESS OTHERWISE REQUIRED BY THE AMERICANS WITH DISABILITIES ACT.
3. SEE TORNADO SHELTER PLANS FOR SHELTER SIGNAGE IF APPLICABLE.

FIRE EQUIPMENT MOUNTING HEIGHTS



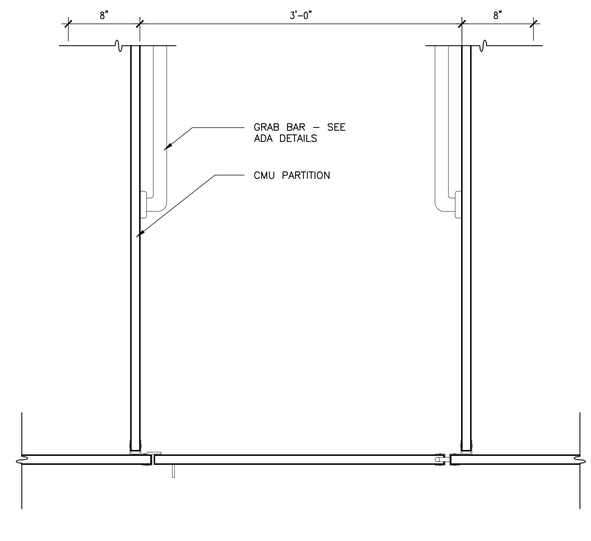
FIRE EXTINGUISHER MOUNTING HEIGHTS

NOTE:
1. 4" MAX. PROJECTION FROM WALL
2. MEASURE FROM HANDLE OF EXTINGUISHER NOT CABINET HANDLE



7 DETAIL @ COUNTERTOP

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



8 DETAIL @ AMBULATORY STALL – SOLID PLASTIC TOILET PARTITION

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

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11, CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

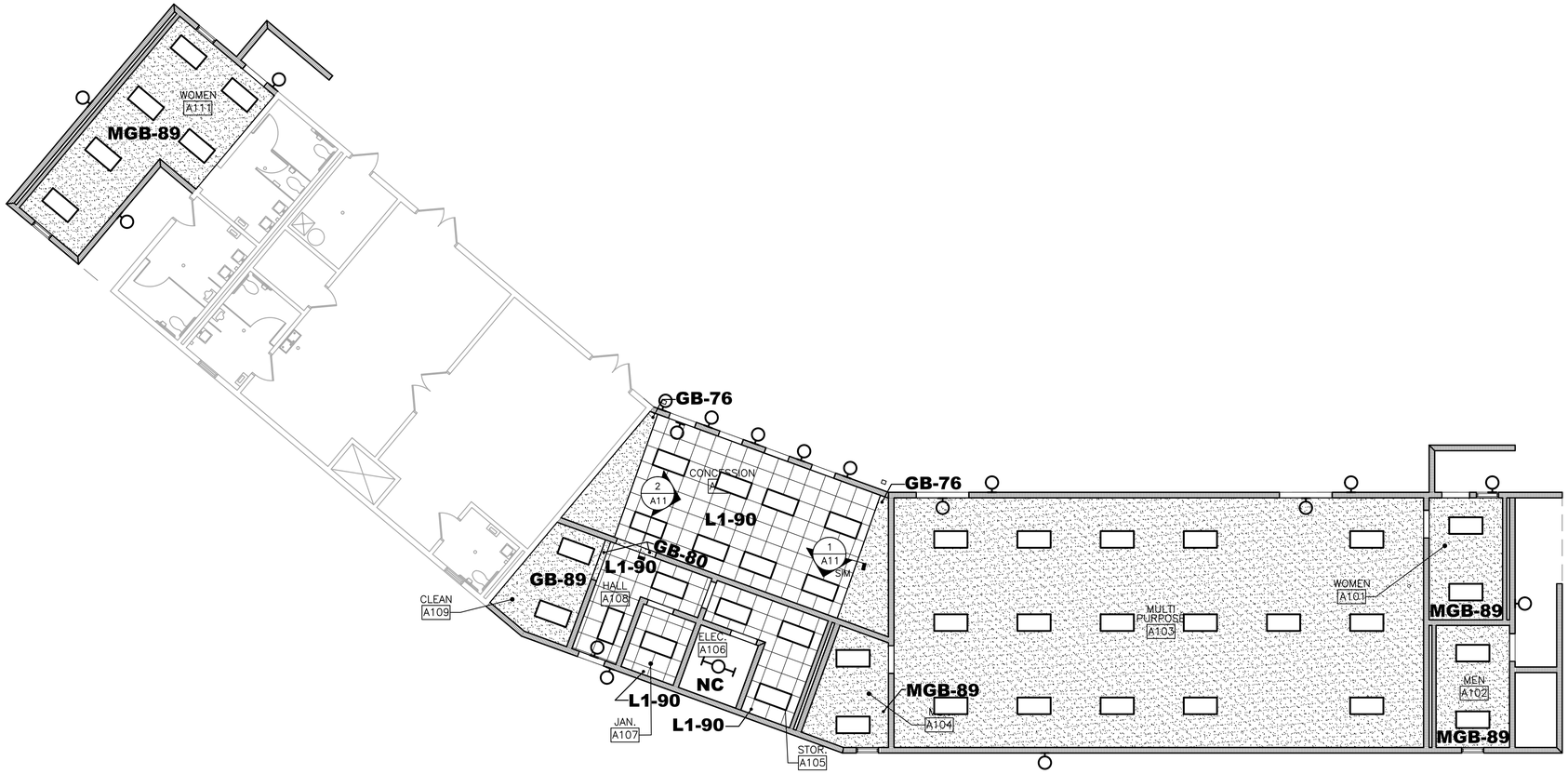
STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

SHEET TITLE:
INTERIOR ELEVATIONS AND DETAILS

PROJ. MGR.: R. LATHAN
DRAWN: K. SIMPSON
Rasco
DATE: SEPTEMBER 22, 2023
REVISIONS

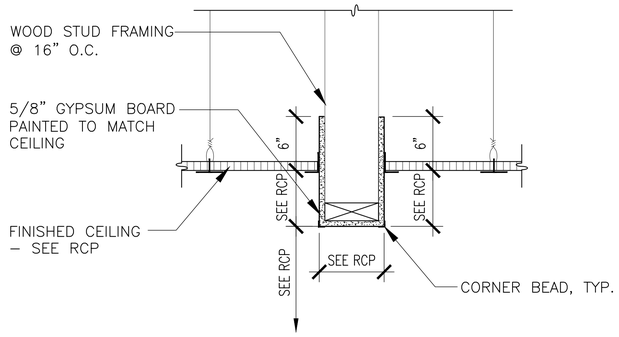
JOB NO. 23-63
SHEET NO:
A10
11 OF 16

0 1" 2"



1 MAIN LEVEL REFLECTED CEILING PLAN

1/8" = 1'-0"



2 DETAIL @ SOFFIT WITH LAY-IN ON BOTH SIDES

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

CEILING LEGEND

FIXTURE TYPES - SEE ELECTRICAL

CEILING TYPE	CEILING HEIGHTS
L1 - 2X2LAY-IN ACOUSTICAL CEILING TILE, AS SPECIFIED	76 = 7'-6" AFF
MGB - MOISTURE GYPSUM BOARD, PAINTED AS SCHEDULED	80 = 8'-0" AFF
GB - GYPSUM BOARD, PAINTED AS SCHEDULED	89 = 8'-9" AFF
NC - NO CEILING	90 = 9'-0" AFF
ETR - EXISTING TO REMAIN	
REFER TO FINISH SYMBOLS ON PLAN FOR MATERIALS AND CEILING HEIGHTS	

CEILING TYPE — L1 — 90 — CEILING HEIGHT

CEILING NOTES

1. AFF = ABOVE FINISH FLOOR
2. ALL CEILING HEIGHTS ARE FROM ADJACENT FINISHED FLOOR.
3. CEILING HEIGHTS INDICATED ARE MINIMUM HEIGHTS. COORDINATE W/ PLUMBING, MECHANICAL, AND ELECTRICAL TO INSTALL CEILINGS AS HIGH AS POSSIBLE.
4. ALL CEILING GRIDS ARE TO BE CENTERED IN ROOM UNLESS SHOWN OR NOTED OTHERWISE.
5. 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.
6. COORDINATE W/ PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS AND PROVIDE FRAMING AS REQUIRED TO ACCOMMODATE MECHANICAL AND PLUMBING SYSTEMS.

LIGHTING/ELECTRICAL NOTES

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

LATHAN
ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11 , CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

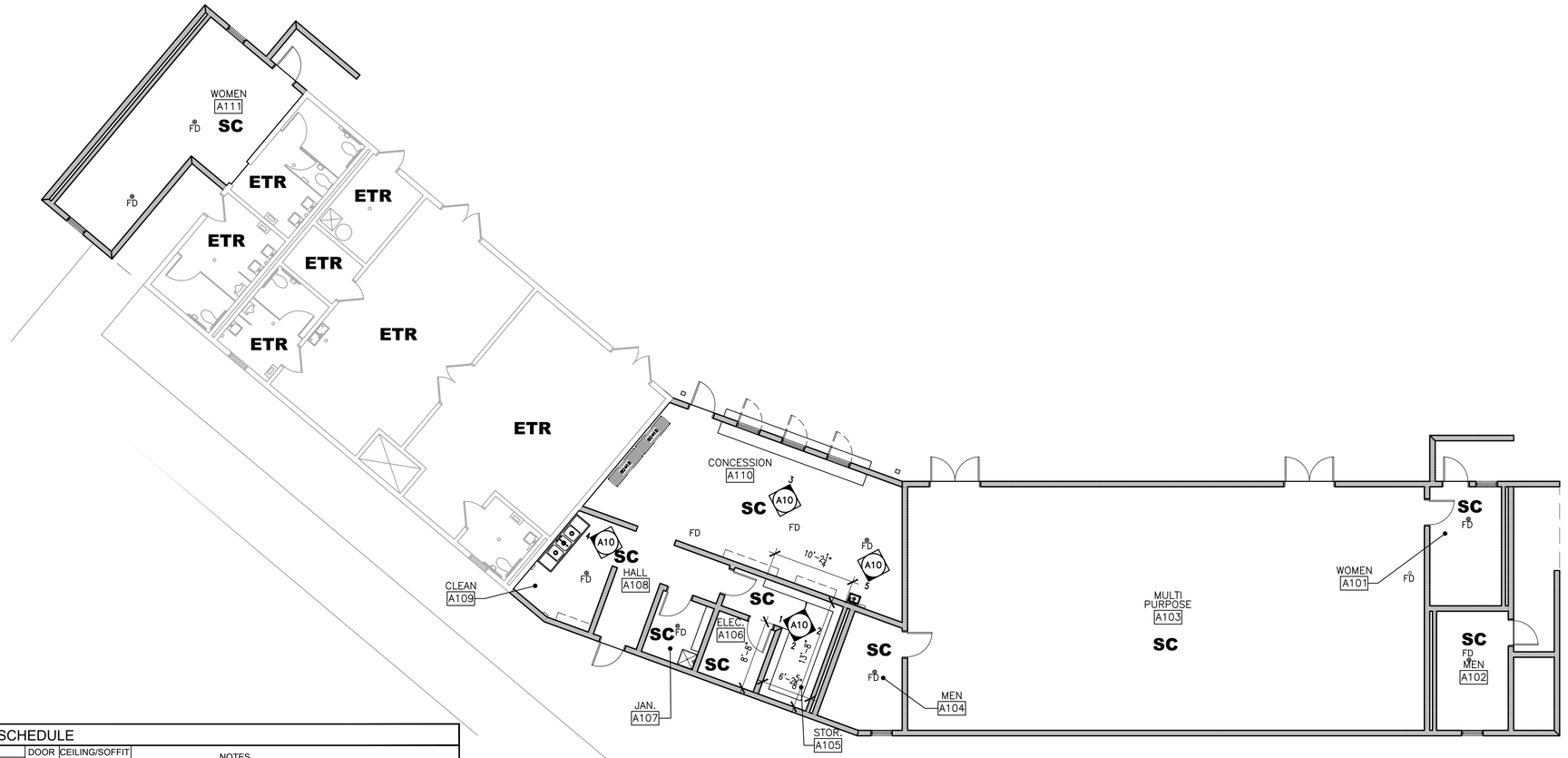
STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

SHEET TITLE:
REFLECTED CEILING PLAN, LEGENDS, AND DETAIL

PROJ. MGR.: R. LATHAN
DRAWN: K. SIMPSON
Rasco
DATE: SEPTEMBER 22, 2023
REVISIONS

JOB NO. 23-63
SHEET NO:
A11
12 OF 16

0 1" 2"



FINISH SCHEDULE

NO.	ROOM NAME	FLOOR	BASE	MILLWORK FACE	MILLWORK TOP	WALLS NORTH	WALLS SOUTH	WALLS EAST	WALLS WEST	DOOR FRAME	CEILING/SOFFIT PAINT	NOTES
MAIN LEVEL												
A101	WOMEN	SC	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	EPOXY PAINT ON ALL WALLS AND CEILING
A102	MEN	SC	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	EPOXY PAINT ON ALL WALLS AND CEILING
A103	MULTI PURPOSE	SC	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	EPOXY PAINT ON ALL WALLS AND CEILING
A104	MEN	SC	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	EPOXY PAINT ON ALL WALLS AND CEILING
A105	STORAGE	SC	RB-1	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		EPOXY PAINT ON ALL WALLS AND CEILING
A106	ELECTRICAL	SC	RB-1	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		EPOXY PAINT ON ALL WALLS AND CEILING
A107	JANITOR	SC	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		EPOXY PAINT ON ALL WALLS AND CEILING
A108	HALL	SC	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		EPOXY PAINT ON ALL WALLS AND CEILING
A109	CLEAN	SC	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		EPOXY PAINT ON ALL WALLS AND CEILING
A110	CONCESSIONS	SC	RB-1	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		EPOXY PAINT ON ALL WALLS AND CEILING
A111	WOMEN	SC	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	EPOXY PAINT ON ALL WALLS AND CEILING

BASE

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION/NOTES
RB-1	JOHNSONITE	6" COVE BASE, #63 BURNT UMBER	SEE FINISH SCHEDULE

PAINT

ITEM	MANUFACTURER	ITEM NUMBER/NAME	TYPE/LOCATION	LOCATION/NOTES
PNT-1	SHERWIN WILLIAMS	COLOR: CANVAS TAN SW7531	GENERAL WALLS	SEE FINISH SCHEDULE
PNT-2	SHERWIN WILLIAMS	COLOR: INTELLECTUAL GRAY SW7045	GENERAL TRIM	SEE FINISH SCHEDULE
PNT-3	SHERWIN WILLIAMS	COLOR: CEILING BRIGHT WHITE SW7007	CEILING AND SOFFIT	SEE FINISH SCHEDULE

FINISH ABBREVIATION LEGEND

APF	ACOUSTIC PANEL FABRIC	IC	IMPRINTED CONCRETE	ST	STAIN
CC	COATED CONCRETE	LVT	LUXURY VINYL TILE		
CM	CROWN MOLDING	PL	PLASTIC LAMINATE	TP	TACKABLE ACOUSTIC PANEL
CPT	CARPET	PNT	PAINT		
CR	CHAIR RAIL	PT	PORCELAIN TILE	TS	TACKAKLE SURFACE
DP	DIGITAL ACOUSTIC PANEL	PTB	PORCELAIN TILE BASE	VCT	VINYL COMP. TILE
		QT	QUARRY TILE	WK	WOOD KASE
CWT	CERAMIC WALL TILE	QTB	QUARRY TILE BASE	WC	WALLCOVERING
ERB	EPOXY RESIN BASE	RB	RUBBER BASE	WF	WOOD FLOORING
ERF	EPOXY RESIN FLOOR	RF	RUBBER FLOOR	WP	WOOD PANELING
ESD	STATIC CONTROL TILE	SC	SEALED CONCRETE	WV	WOOD VENEER
GYP	GYPSUM BOARD	STC	STAINED CONCRETE		
		SS	SOLID SURFACE		

SEALED CONCRETE

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION/NOTES
SC	SHERWIN WILLIAMS	SEE SPEC	SEE FINISH SCHEDULE

PLASTIC LAMINATE

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION/NOTES
PL-1	WILSONART	COLOR: ---- PREMIUM LAMINATE WITH MATCHING EDGEBAND	SEE FINISH SCHEDULE

FIBERGLASS REINFORCED PANEL

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION/NOTES
FRP-1	CRANE INDUSTRIES	COLOR: WHITE SIZE: 4X8	AT MOP SINK

FINISH NOTES

ALL WALLS TO BE PAINTED PNT -1 UNLESS NOTED OTHERWISE.

ALL WALLS AND CEILINGS LOCATED IN WET AREAS SHALL HAVE EPOXY BASED PAINT

FINISH PATTERN LEGEND

ETR ETR
EXISTING TO REMAIN

SC SC
SEALED CONCRETE

1 MAIN LEVEL FINISH FLOOR PLAN

1/8" = 1'-0"

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11 , CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

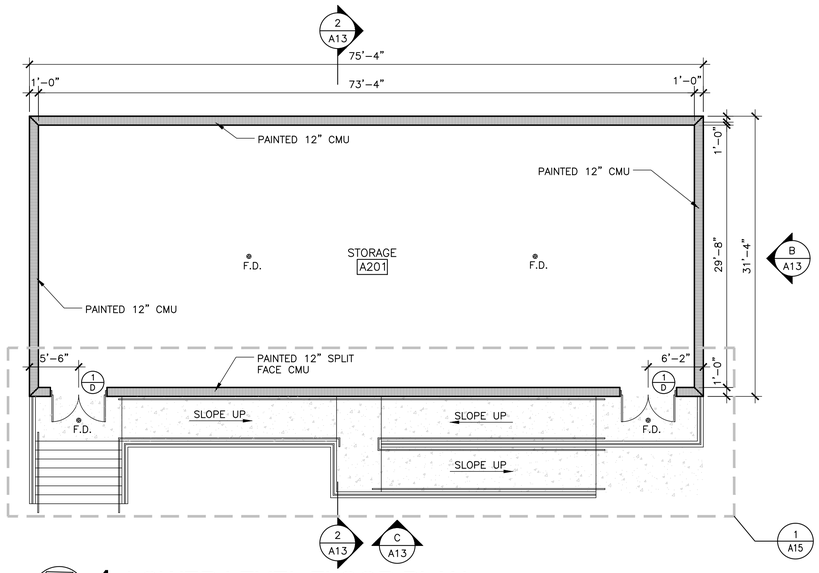
STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

SHEET TITLE:
FINISH FLOOR PLAN, LEGENDS, AND SCHEDULE

PROJ. MGR.: R. LATHAN
DRAWN: K. SIMPSON
ERasco
DATE: SEPTEMBER 22, 2023
REVISIONS

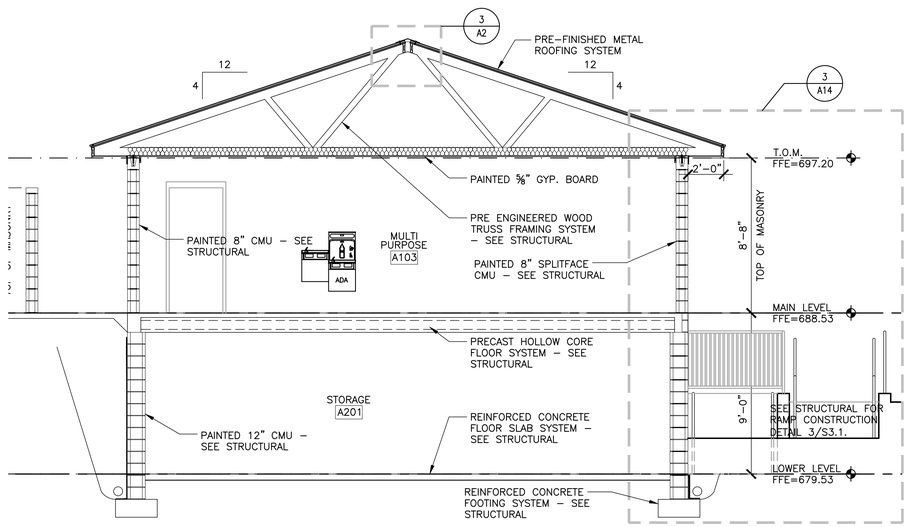
JOB NO. 23-63
SHEET NO:
A12
12 OF 16

0 1" 2"



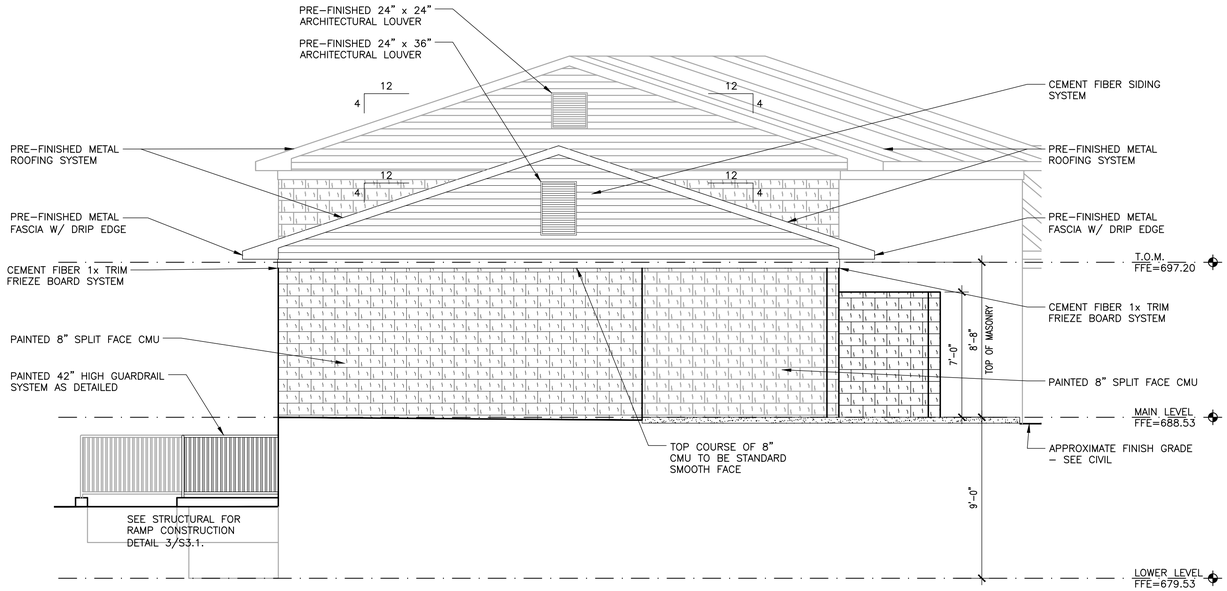
1 LOWER LEVEL FLOOR PLAN

1/8" = 1'-0"



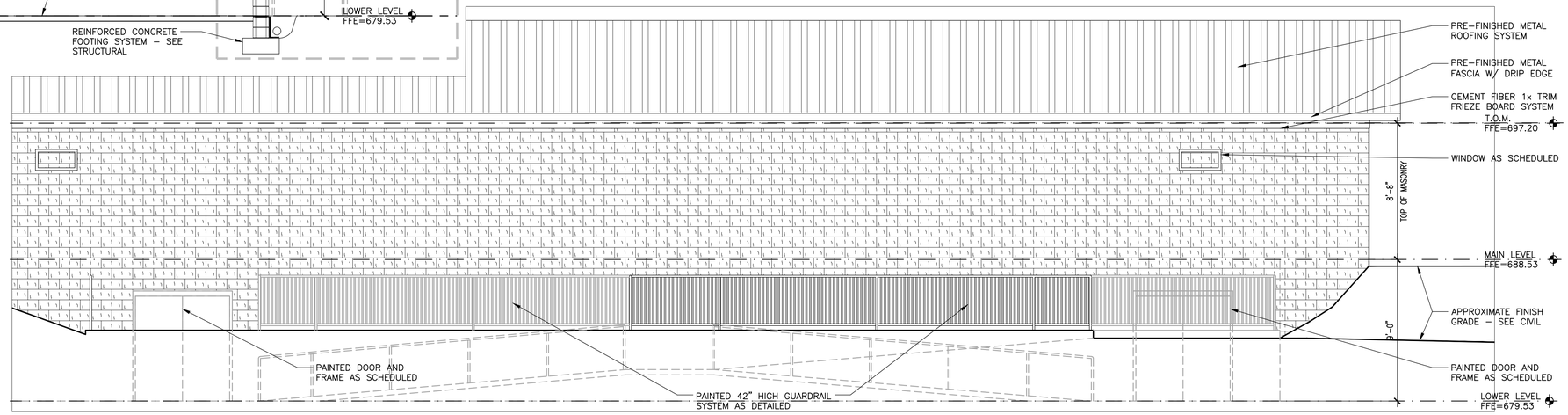
2 BUILDING SECTION

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



B ELEVATION

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



C ELEVATION

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

LATHAN
ARCHITECTS

ADDITION TO FIELDHOUSE FOR

CHELSEA HIGH SCHOOL FOOTBALL

10510 COUNTY ROAD 11, CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

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

SHEET TITLE:
LOWER LEVEL FLOOR PLAN, BUILDING SECTION, & ELEVATIONS (ADD/ALTERNATE)

PROJ. MGR.:	R. LATHAN
DRAWN:	JWW
	Rasco
DATE:	SEPTEMBER 22, 2023
REVISIONS	

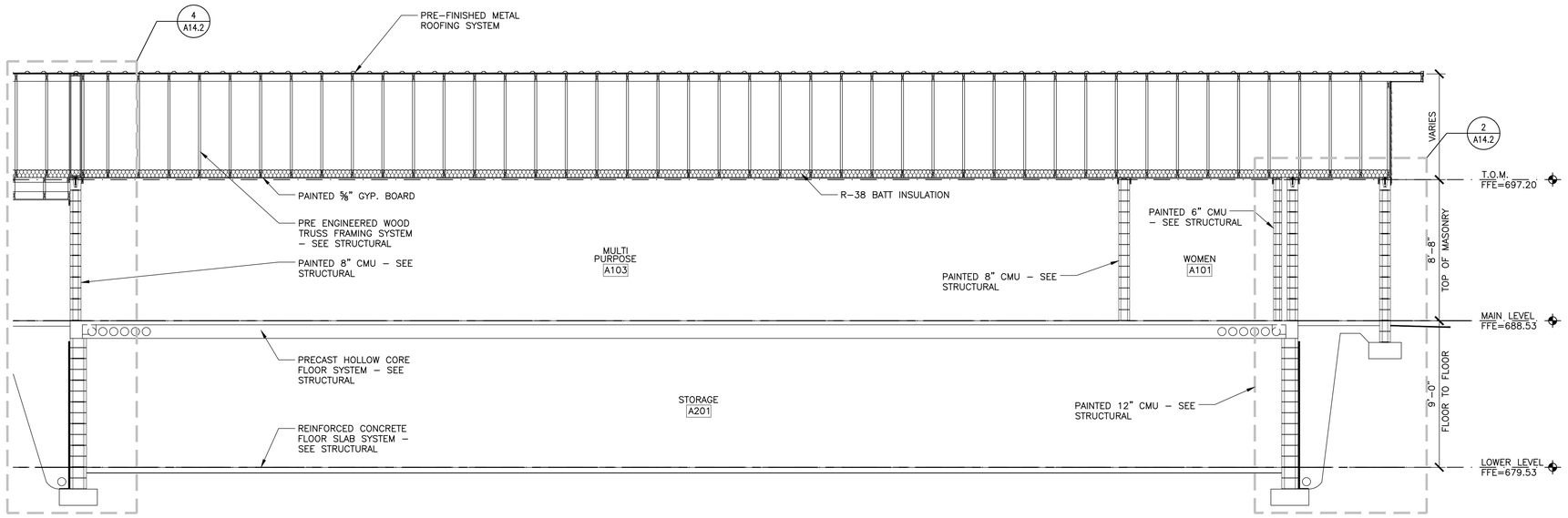
JOB NO. 23-63

SHEET NO:

A13

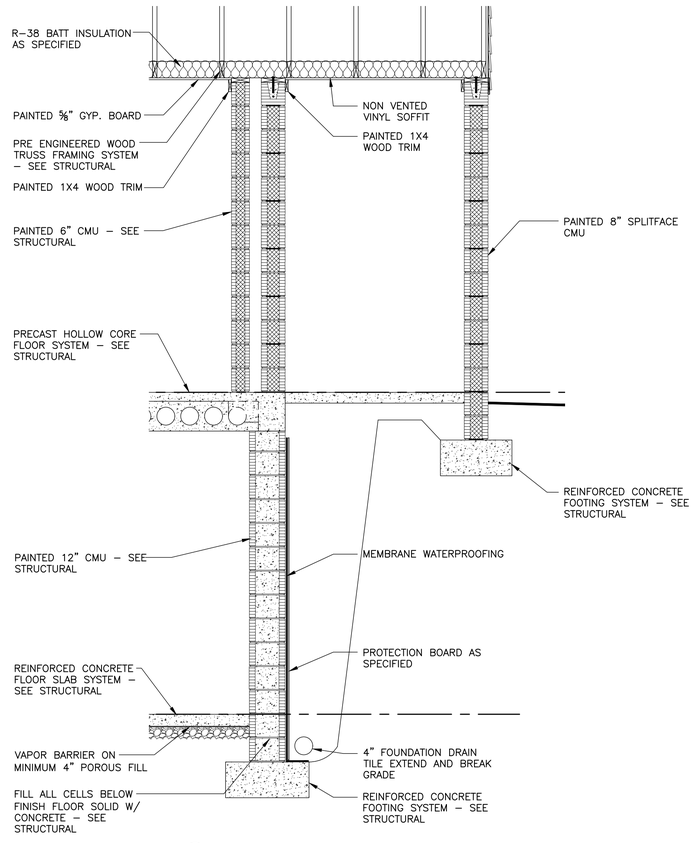
14 OF 16

0 1" 2"



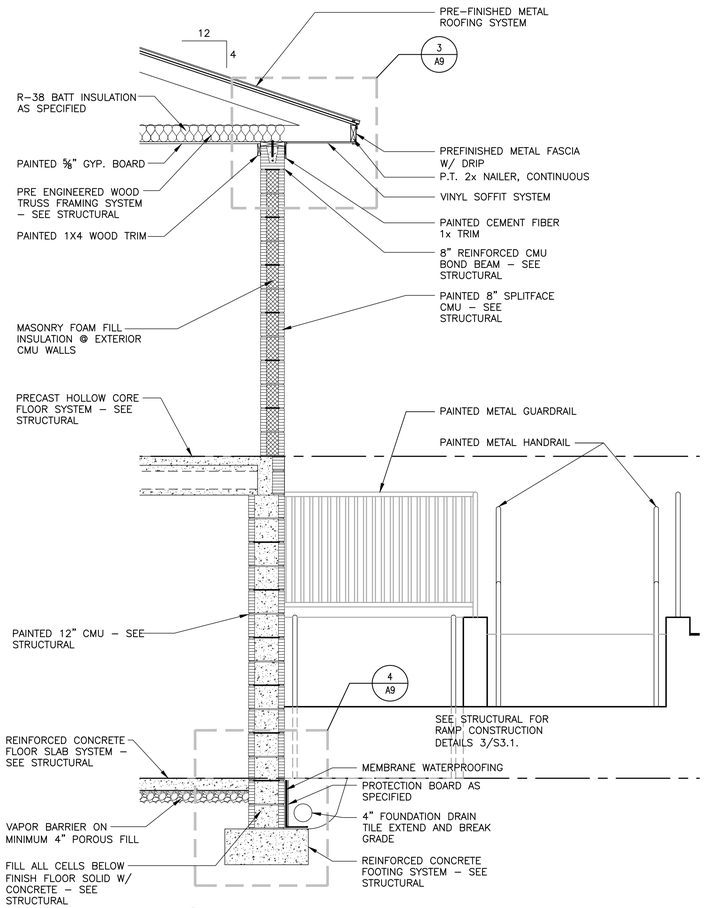
1 BUILDING SECTION

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



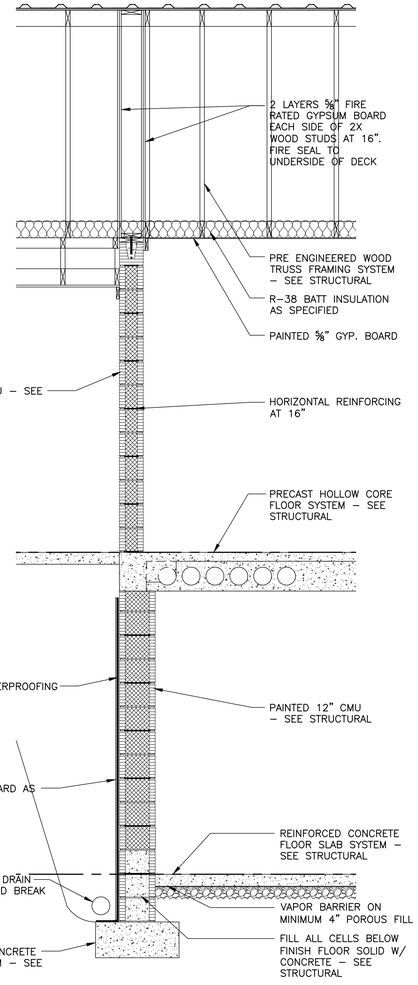
2 WALL SECTION

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



3 WALL SECTION

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



4 WALL SECTION

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

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11 , CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

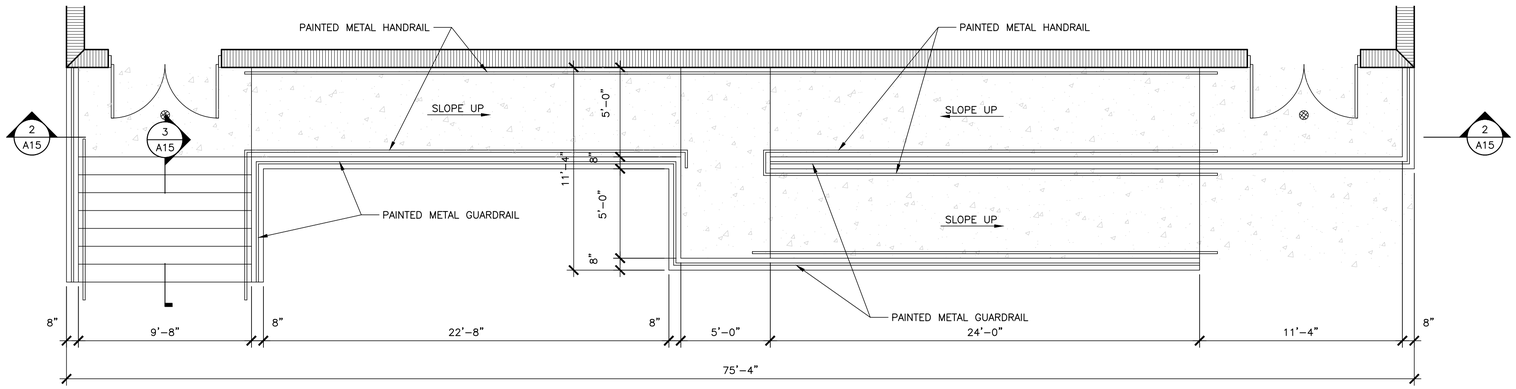
STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

SHEET TITLE:
LOWER LEVEL FLOOR BUILDING & WALL SECTIONS (ADD/ALTERNATE)

PROJ. MGR.: R. LATHAN
DRAWN: JWW
Rasco
DATE: SEPTEMBER 22, 2023
REVISIONS

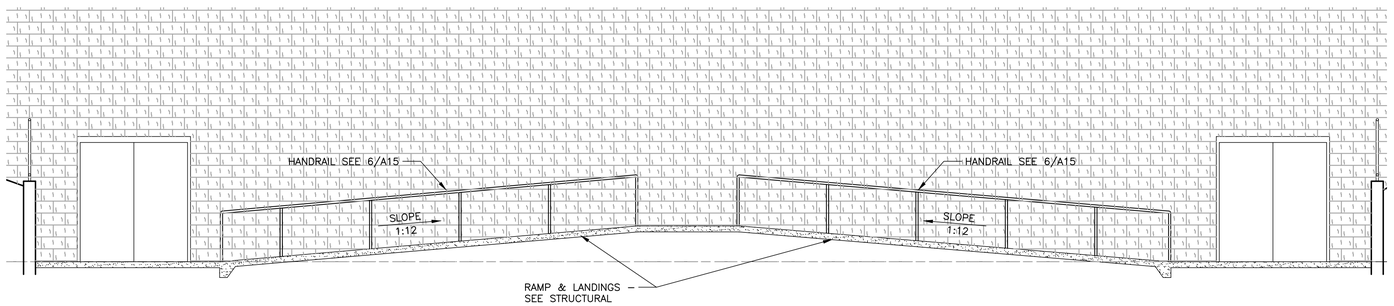
JOB NO. 23-63
SHEET NO:
A14
15 OF 16

0 1" 2"



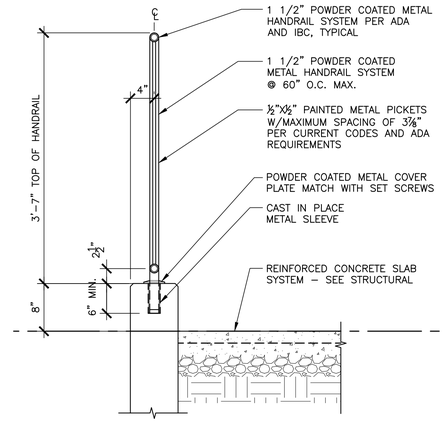
1 RAMP PLAN

1/4" = 1'-0"



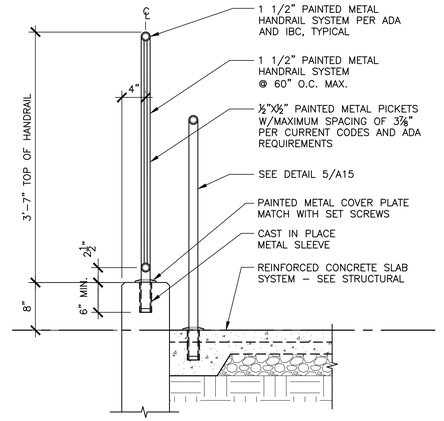
2 RAMP SECTION

1/4" = 1'-0"



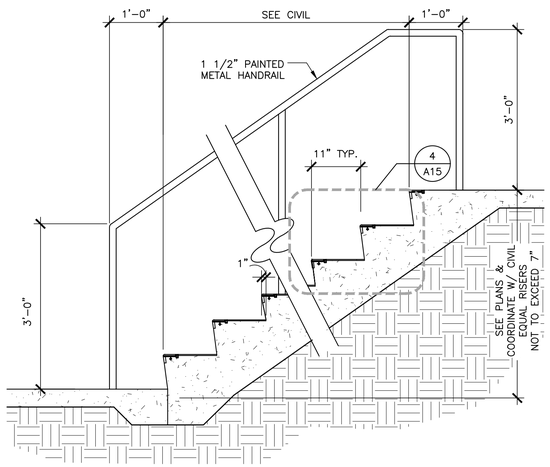
8 GUARDRAIL DETAIL

1" = 1'-0"



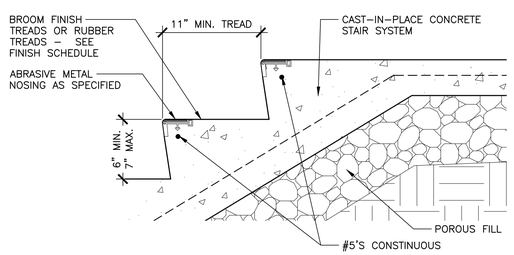
7 GUARDRAIL/HANDRAIL DETAIL

1" = 1'-0"



3 STAIR SECTION

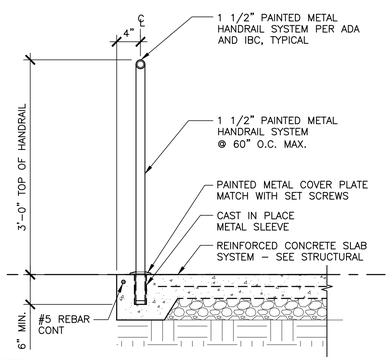
3/4" = 1'-0"



NOTE: EXPOSED CONCRETE FREE OF VOIDS.

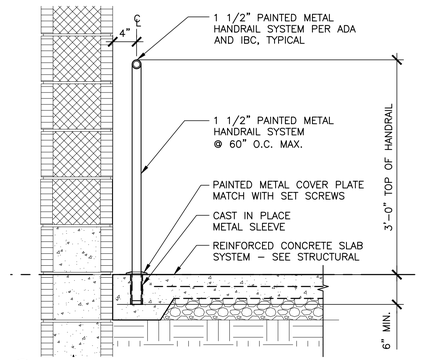
4 STAIR DETAIL

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



5 HANDRAIL DETAIL

1" = 1'-0"



6 GUARDRAIL/HANDRAIL DETAIL

1" = 1'-0"

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11 , CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

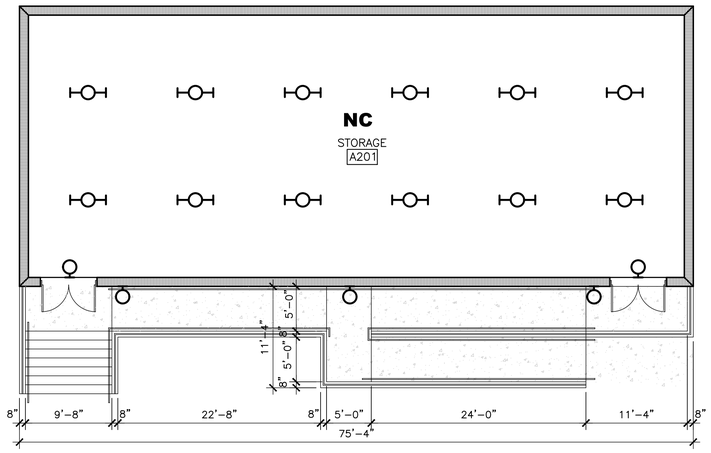
STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

SHEET TITLE:
RAMP AND STAIR DETAILS (ADD/ALTERNATE)

PROJ. MGR.: R. LATHAN
DRAWN: JWW
BRasco
DATE: SEPTEMBER 22, 2023
REVISIONS

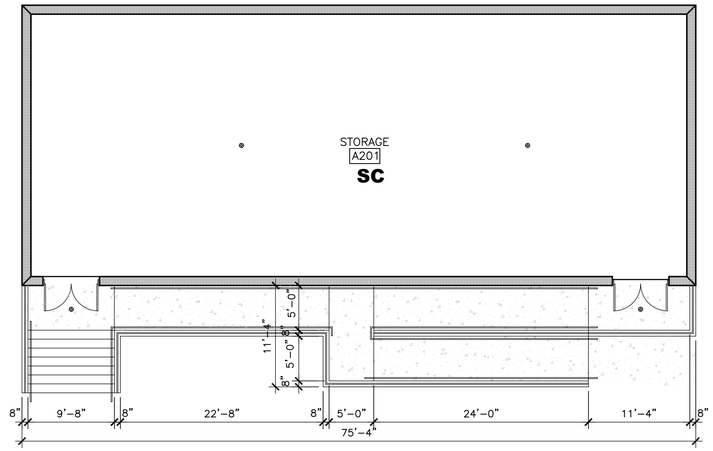
JOB NO. 23-63
SHEET NO:
A15
14 OF 16

0 1" 2"



1 LOWER LEVEL REFLECTED CEILING PLAN

1/8" = 1'-0" ALTERNATE



2 LOWER LEVEL FINISH FLOOR PLAN

1/8" = 1'-0" ALTERNATE

CEILING LEGEND

FIXTURE TYPES - SEE ELECTRICAL

CEILING TYPE	CEILING HEIGHTS
L1 - 2X2LAY-IN ACOUSTICAL CEILING TILE, AS SPECIFIED	76 = 7'-6" AFF
MGB - MOISTURE GYPSUM BOARD, PAINTED AS SCHEDULED	80 = 8'-0" AFF
GB - GYPSUM BOARD, PAINTED AS SCHEDULED	89 = 8'-9" AFF
NC - NO CEILING	90 = 9'-0" AFF
ETR - EXISTING TO REMAIN	
REFER TO FINISH SYMBOLS ON PLAN FOR MATERIALS AND CEILING HEIGHTS	

CEILING TYPE — L1 — 90 — CEILING HEIGHT

CEILING NOTES

1. AFF = ABOVE FINISH FLOOR
2. ALL CEILING HEIGHTS ARE FROM ADJACENT FINISHED FLOOR.
3. CEILING HEIGHTS INDICATED ARE MINIMUM HEIGHTS. COORDINATE W/ PLUMBING, MECHANICAL, AND ELECTRICAL TO INSTALL CEILINGS AS HIGH AS POSSIBLE.
4. ALL CEILING GRIDS ARE TO BE CENTERED IN ROOM UNLESS SHOWN OR NOTED OTHERWISE.
5. 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.
6. COORDINATE W/ PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS AND PROVIDE FRAMING AS REQUIRED TO ACCOMMODATE MECHANICAL AND PLUMBING SYSTEMS.

LIGHTING/ELECTRICAL NOTES

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

FINISH PATTERN LEGEND

ETR ETR
EXISTING TO REMAIN

SC SC
SEALED CONCRETE

FINISH SCHEDULE

NO.	ROOM NAME	FLOOR	BASE	MILLWORK FACE	MILLWORK TOP	WALLS NORTH	WALLS SOUTH	WALLS EAST	WALLS WEST	DOOR FRAME	CEILING/SOFFIT PAINT	NOTES
LOWER LEVEL - ALTERNATE												
A201	STORAGE	SC	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	EPOXY PAINT ON ALL WALLS AND CEILING

BASE

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION/NOTES
RB-1	JOHNSONITE	6" COVE BASE, #63 BURNT UMBER	SEE FINISH SCHEDULE

SEALED CONCRETE

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION/NOTES
SC	SEE SPEC	SEE SPEC	SEE FINISH SCHEDULE

PAINT

ITEM	MANUFACTURER	ITEM NUMBER/NAME	TYPE/LOCATION	LOCATION/NOTES
PNT-1	SHERWIN WILLIAMS	COLOR: CANVAS TAN SW7531	GENERAL WALLS	SEE FINISH SCHEDULE
PNT-2	SHERWIN WILLIAMS	COLOR: INTELLECTUAL GRAY SW7045	GENERAL TRIM	SEE FINISH SCHEDULE
PNT-3	SHERWIN WILLIAMS	COLOR: CEILING BRIGHT WHITE SW7007	CEILING AND SOFFIT	SEE FINISH SCHEDULE

FINISH ABBREVIATION LEGEND

APF	ACOUSTIC PANEL FABRIC	IC	IMPRINTED CONCRETE	ST	STAIN
		LVT	LUXURY VINYL TILE		
CC	COATED CONCRETE	PL	PLASTIC LAMINATE	TP	TACKABLE
CM	CROWN MOLDING	PNT	PAINT		ACOUSTIC PANEL
CPT	CARPET	PT	PORCELAIN TILE	TS	TACKAKLE SURFACE
CR	CHAIR RAIL	PTB	PORCELAIN TILE KASE	VCT	VINYL COMP. TILE
DP	DIGITAL ACOUSTIC PANEL	QT	QUARRY TILE	WK	WOOD KASE
		QTB	QUARRY TILE KASE	WC	WALLCOVERING
CWT	CERAMIC WALL TILE	RB	RUBBER KASE	WF	WOOD FLOORING
ERK	EPOXY RESIN KASE	RF	RUBBER FLOOR	WP	WOOD PANELING
ERB	EPOXY RESIN FLOOR	SC	SEALED CONCRETE	WV	WOOD VENEER
ESD	STATIC CONTROL TILE	STC	STAINED CONCRETE		
GYP	GYPSUM BOARD	SS	SOLID SURFACE		

FINISH NOTES

ALL WALLS TO BE PAINTED PNT -1 UNLESS NOTED OTHERWISE.

ALL WALLS AND CEILINGS LOCATED IN WET AREAS SHALL HAVE EPOXY BASED PAINT

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11 , CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

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

SHEET TITLE:
LOWER LEVEL REFLECTED CEILING PLAN, LOWER LEVEL FINISH FLOOR PLAN, LEGENDS, AND SCHEDULES

PROJ. MGR.: R. LATHAN
DRAWN: K. SIMPSON
Brasco
DATE: SEPTEMBER 22, 2023
REVISIONS

JOB NO. 23-63
SHEET NO:
A16
16 OF 16

0 1" 2"

GENERAL NOTES

1.0 DESIGN CRITERIA

1.1 CODES AND SPECIFICATIONS:

A. GENERAL BUILDING CODE:
INTERNATIONAL BUILDING CODE, 2021 EDITION.

B. CONCRETE:
BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-19)

C. STRUCTURAL PRECAST CONCRETE:
PCI DESIGN HANDBOOK, LATEST EDITION

PCI MANUAL FOR QUALITY CONTROL FOR PLANTS AND PRODUCTIONS FOR PRECAST CONCRETE PRODUCTS, LATEST EDITION.

D. STRUCTURAL STEEL:
SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (ANSI/AISC 360-16)

E. MASONRY:
SPECIFICATIONS FOR MASONRY STRUCTURES (TMS 602-16)

BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (TMS 602-16)

NATIONAL CONCRETE MASONRY ASSOCIATION'S STANDARD PRACTICES AND "SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY"

F. TIMBER:
NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, AMERICAN FOREST AND PAPER ASSOCIATION (NDS 2018 & SDPWS 2021)

1.2 DESIGN GRAVITY LOADS (PSF):

A. DEAD LOADS:
ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE GENERAL CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING CAPACITY OF THE STRUCTURE.

B. 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 1607.12 HAVE BEEN TAKEN WHERE PERMITTED.

FLOOR (UNREDUCIBLE)--------------------------------------100
STORAGE--125
CORRIDORS--100
MECHANICAL ROOM--150

C. ROOF LIVE LOADS:
WHERE PERMITTED ROOF LIVE LOADS ARE REDUCED FROM THE BASE VALUE SHOWN BELOW IN ACCORDANCE WITH IBC SECTION 1607.14

ROOF---20

D. ROOF SNOW LOADS:
GROUND SNOW LOAD (Pg)------------------------------------5.0
IMPORTANCE FACTOR (I)------------------------------------1.1
EXPOSURE FACTOR (Ce)-------------------------------------1.0
THERMAL FACTOR (Ct)--------------------------------------1.0

1.3 DESIGN LATERAL LOADS:

A. WIND LOADS:
BASIC WIND SPEED (3-SECOND GUST)----------------------109MPH
WIND IMPORTANCE FACTOR (I)------------------------------1.0
WIND EXPOSURE CATEGORY----------------------------------C
INTERNAL PRESSURE COEFFICIENTS-------------------- +/- 0.18
SEE TYPICAL DETAILS FOR COMPONENT AND CLADDING LOADS

B. SEISMIC LOADS:
OCCUPANCY CATEGORY II
SEISMIC IMPORTANCE FACTOR-------------------------------1.00
MAPPED SPECTRAL RESPONSE ACCELERATIONS:
SS--0.287
S1--0.097
SITE CLASS--
SPECTRAL RESPONSE COEFFICIENTS:
SDS---0.249
SD1---0.097
SEISMIC DESIGN CATEGORY---------------------------------B
BASIC SEISMIC-FORCE-RESISTING SYSTEM:
INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
DESIGN BASE SHEAR:
BASE ---30 KIPS
ALTERNATE ------------------------------------70 KIPS
SEISMIC RESPONSE COEFFICIENT, Cs--------------------0.0829
RESPONSE MODIFICATION FACTOR, R-------------------------3.5
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

2.0 GENERAL CONDITIONS

2.1 THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE A PORTION OF THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL REFERENCE AND COORDINATE WITH OTHER DISCIPLINE'S DRAWINGS. ANY DISCREPANCIES OR OMISSIONS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT AND STRUCTURAL DESIGN GROUP.

2.2 ALL REPORTS, PLANS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES, AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY STRUCTURAL DESIGN GROUP AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF STRUCTURAL DESIGN GROUP. STRUCTURAL DESIGN GROUP SHALL RETAIN ALL COMMON LAW, STATUTORY, AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO.

2.3 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.

2.4 WHERE SHOP DRAWINGS, CALCULATIONS, OR SUBMITTALS ARE CALLED FOR IN THE PROJECT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) AND ARE NOT PROVIDED BY THE CONTRACTOR, THE CONTRACTOR ASSUMES TOTAL RESPONSIBILITY FOR THE DESIGN AND ASSOCIATED WORK.

2.5 ENGINEER'S SHOP DRAWING REVIEW IS LIMITED TO REVIEW FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT REFLECTED IN THE STRUCTURAL PORTION OF THE CONTRACT DOCUMENTS. THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE DRAWINGS, SPECIFICATIONS OR OTHER PROJECT CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED OR IMPLIED FOR THE CORRECTNESS OF DIMENSIONS OR DETAILS. THIS REVIEW DOES NOT AUTHORIZE CHANGES TO THE CONTRACT SUM UNLESS STATED IN A SEPARATE WRITTEN FORM OR CHANGE ORDER. CONTRACTOR SHALL CONFIRM AND CORRELATE ALL QUANTITIES AND DIMENSIONS, SELECT FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATE HIS WORK WITH THAT OF OTHER TRADES, AND PERFORM HIS WORK IN A SAFE AND SATISFACTORY MANNER. CONTRACTOR SHALL ALSO REFER TO THE REQUIREMENTS OF THE GENERAL AND SUPPLEMENTARY GENERAL CONDITIONS.

2.6 ALL DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS, UNLESS NOTED.

2.7 VERIFY ALL DIMENSIONS AND DETAILS SHOWN ON THESE DRAWINGS. ANY DISCREPANCIES OR OMISSIONS FOUND SHALL BE REPORTED TO THE ENGINEER AND OTHER DESIGN PROFESSIONALS AS APPROPRIATE FOR RESOLUTION PRIOR TO PROCEEDING WITH ANY RELATED WORK.

2.8 THESE DRAWINGS DO NOT INCLUDE PROVISIONS TO SATISFY JOB SITE SAFETY REQUIREMENTS. CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING SAFETY DURING CONSTRUCTION, AND FOR CONFORMANCE TO ALL APPLICABLE OSHA STANDARDS. JOBSITE VISITS BY ENGINEER SHALL NOT CONSTITUTE APPROVAL, AWARENESS OR LIABILITY FOR ANY HAZARDOUS CONDITIONS.

2.9 STRUCTURAL DESIGN GROUP IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, SAFETY PROCEDURES, CONSTRUCTION SUPERVISION OR SITE SAFETY, AND DOES NOT HAVE THE AUTHORITY TO STOP WORK FOR THESE ITEMS.

2.10 STRUCTURAL OBSERVATION IS VISUAL OBSERVATION OF THE IN PLACE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT THE TIME OF THE OBSERVATION AND SHALL NOT BE CONSTRUED AS INSPECTION OR APPROVAL OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TESTING AND SPECIAL INSPECTIONS PER THE REQUIREMENTS IN THE PROJECT MANUAL.

2.11 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR BRACING AND SHORING ALL EXCAVATIONS, DEWATERING OF EXCAVATION FROM EITHER SURFACE WATER, GROUND WATER OR SEEPAGE, TEMPORARY AND EXISTING STRUCTURES, AND PARTIALLY COMPLETED PORTIONS OF THE WORK TO ASSURE THE SAFETY OF ANY PERSON COMING IN CONTACT WITH THE WORK.

2.12 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.

2.13 OBSERVATION BY THE ENGINEER OF RECORD'S OFFICE DOES NOT REPLACE INSPECTIONS AND TESTING BY THE TESTING AGENCY OR SPECIAL INSPECTOR.

2.14 ALL SUBMITTALS: IF THERE ARE QUESTIONS, CLARIFICATIONS, MODIFICATIONS, OR ITEMS WHERE INFORMATION, A RESPONSE, OR APPROVAL IS REQUESTED, SUCH ITEMS SHALL BE WRITTEN ON THE TRANSMITTAL OR COVER SHEET. INDICATING SUCH ITEMS ON THE SHOP DRAWINGS, WITHIN ANY CALCULATIONS, OR PRODUCT DATA IS NOT SUFFICIENT. WHERE SUCH ITEMS ARE NOT SPECIFICALLY LISTED ON THE TRANSMITTAL OR COVER SHEET IN ACCORDANCE WITH THESE GENERAL NOTES AND THE SPECIFICATIONS, SUCH ITEMS ARE NOT TO BE CONSIDERED APPROVED OR CONSIDERED. IF A QUESTION, CLARIFICATION, MODIFICATION, OR REQUEST FOR INFORMATION IS MADE AND NOT SPECIFICALLY RESPONDED TO BY STRUCTURAL DESIGN GROUP, NO APPROVAL OR CONSENT SHALL BE ASSUMED. THE CONTRACTOR SHALL ASSUME TOTAL LIABILITY AND RESPONSIBILITY IN ALL CASES WHERE SPECIFIC WRITTEN RESPONSE FROM STRUCTURAL DESIGN GROUP IS NOT OBTAINED, REGARDLESS OF ANY OTHER ACTIONS TAKEN BY STRUCTURAL DESIGN GROUP.

3.0 FOUNDATIONS

3.1 GEOTECHNICAL REPORT: FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT BY TERRACON TITLED "FIELD HOUSE ADDITIONS CHELSEA HIGH SCHOOL PROJECT NO. E1235115" DATED AUGUST 15, 2023 ALONG WITH ANY SUPPLEMENTAL CORRESPONDENCE. THE GENERAL CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL REPORT FROM THE OWNER AND FOLLOW ALL REQUIREMENTS AND RECOMMENDATIONS. GEOTECHNICAL RECOMMENDATIONS SHALL TAKE PRECEDENCE OVER THE ITEMS THAT FOLLOW IN THIS SECTION OF THE STRUCTURAL GENERAL NOTES.

3.2 MAXIMUM ALLOWABLE BEARING PRESSURE PER GEOTECHNICAL REPORT: 3000 PSF.

NOTE: ALL FOOTING BEARING ELEVATIONS SHALL BE BEARING IN SIMILAR MATERIAL (NATIVE SOILS OR WEATHERED BEDROCK), EXTEND FOOTINGS AS NECESSARY WITH LEAN CONCRETE OR FLOWABLE FILL.

3.3 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.

3.4 COMPACTED FILL WITHIN THE BUILDING AREA (AND EXTENDING 10'-0" OUTSIDE THE EXTERIOR BUILDING LINE) SHALL MEET THE REQUIREMENTS NOTED IN THE GEOTECHNICAL REPORT.

3.5 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 FINISH GRADE ON EXTERIOR AND TO UNDERSIDE OF SLAB ON INTERIOR.

3.6 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.

3.7 FOUNDATION AND RETAINING WALLS SHALL NOT BE BACKFILLED UNTIL CONCRETE HAS ATTAINED THE REQUIRED 28 DAY COMPRESSIVE STRENGTH.

3.8 DO NOT PLACE BACKFILL AGAINST FOUNDATION WALLS UNTIL UPPER BRACING FLOORS ARE IN PLACE FOR AT LEAST SEVEN DAYS AND HAVE ATTAINED 75% OF DESIGN STRENGTH.

3.9 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.

3.10 SUBGRADE AND GRANULAR FILL SUPPORTING SLABS ON GRADE SHALL BE AS RECOMMENDED BY THE GEOTECHNICAL REPORT AND COMPACTED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER OR HIS APPROVED REPRESENTATIVE. SEE SPECIFICATIONS FOR VAPOR RETARDER BENEATH SLABS ON GRADE.

3.11 GRANULAR FILL BENEATH SLABS, UNLESS NOTED OTHERWISE, SHALL BE 4" COMPACTED #57 STONE.

3.12 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.

3.13 NO EXCAVATION SHALL BE CLOSER THAN AT A SLOPE OF 2:1 (TWO HORIZONTAL TO ONE VERTICAL) TO A FOOTING.

4.0 CONCRETE

4.1 CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.

4.2 CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS (PSI), TYPE OF CONCRETE, MAXIMUM WATER/CEMENTITIOUS RATIO, AIR CONTENT, SLUMP, AND CONCRETE USE:

STRENGTH	TYPE	MAX W/C	AIR	SLUMP	USE
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

A. CONCRETE MIX DESIGN SHALL BE WORKABLE WITH LOWEST TOTAL WATER PER CUBIC YARD USING LARGEST PRACTICAL MAXIMUM SIZE OF COURSE AGGREGATE.

4.3 REINFORCING BARS: ASTM A615 GRADE 60.

4.4 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 GREENSTREAK 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.

A. 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.

4.5 REINFORCING STEEL SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC INDICATION THAT REINFORCING EXISTS. SEE SCHEDULES, SECTION NOTES AND GENERAL NOTES FOR ACTUAL REINFORCING REQUIRED.

4.6 REINFORCING BAR PLACING ACCESSORIES IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE ACCESSORIES WITH RUSTPROOF LEGS. WHERE CONCRETE IS SAND-BLASTED OR BUSH-HAMMERED, PROVIDE ACCESSORIES OF STAINLESS STEEL.

4.7 DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315. REINFORCEMENT SHALL NOT BE WELDED UNLESS NOTED OR APPROVED BY THE ENGINEER.

4.8 ALL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.

4.9 ALL REINFORCING MARKED "CONT." INDICATES REINFORCING SHALL BE "CONTINUOUS" SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.

4.10 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.

4.11 CONCRETE COVERAGE OF REINFORCEMENT, UNLESS NOTED:

FOOTINGS--------------------------------2" TOP & 3" BOTTOM & SIDES
PEDESTALS-------------------------------------1-1/2" CLEAR OF TIES
SLAB FACES NOT EXPOSED TO WEATHER OR EARTH---------------------3/4"
SLAB FACES EXPOSED TO WEATHER
A. #5 AND LESS--1-1/2"
B. #6 AND GREATER---2"

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

4.12 PEDESTAL, COLUMN AND WALL VERTICAL REINFORCING: DOWEL TO FOUNDATION WITH HOOKED BARS OF THE SAME SIZE AND SPACING AS VERTICAL REINFORCING.

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

4.14 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 3-4 TIMES SLAB THICKNESS IN FEET MAXIMUM 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 1-1/2 TIMES 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 1, 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.

4.15 CAST IN PLACE ALL SLEEVES AND INSERTS.

4.16 IT SHALL BE THE RESPONSIBILITY OF THE OWNER TO ENSURE THAT PREVENTIVE MAINTENANCE IS PERFORMED THROUGHOUT THE SERVICE LIFE OF THE STRUCTURE. THE MAINTENANCE WILL INCLUDE SUCH THINGS AS CRACK SEALING, JOINT SEALING, EXPANSION JOINT REPAIRS, SEALER REPAIRS, SCALING REPAIRS, DRAINAGE INSPECTIONS, AND OTHER REPAIRS.

5.0 PRECAST CONCRETE HOLLOW CORE SLABS

5.1 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.

A. 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.

1. THE REMAINING 1" OF THE TOPPING SLAB IS TO BE APPLIED AS SUPERIMPOSED DEAD LOAD TO THE PRECAST PANELS.
2. 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.
3. 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.

5.2 PRECAST MANUFACTURER SHALL DESIGN HOLLOW CORE SLABS FOR THE SUPERIMPOSED LOADS LISTED BELOW PLUS SELF-WEIGHT PLUS ALL MASONRY BLOCK WEIGHTS, LIVE LOADS, AND WIND LOADS SHOWN IN THESE DRAWINGS. DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI-318 AND PCI DESIGN HANDBOOK, LATEST EDITION.

3" STRUCTURAL TOPPING SLAB --------------------38 PSF

FOR LIVE LOADS, SEE GENERAL NOTES 1.2.B & 1.2.C AND PLAN NOTES

FOR WIND LOADS, SEE GENERAL NOTE 1.3.C, COMPONENTS AND CLADDING WIND LOAD TABLES ON S1.4, TYPICAL DETAILS, PLAN NOTES, AND SECTION NOTES.

FOR HOUSEKEEPING PADS UNDER MECHANICAL UNITS, COORDINATE SIZE AND LOCATION OF HOUSEKEEPING PADS WITH MECHANICAL DRAWINGS.

5.3 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.

5.4 REINFORCE 3" TOPPING SLAB WITH 6X6 W1.4/W1.4 WWR FLAT SHEETS AT MID-DEPTH OF TOPPING.

A. CONDUITS AND PIPING SHALL NOT BE PLACED IN THE TOPPING SLAB.

5.5 ERECTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY BRACING UNTIL ALL CONNECTIONS HAVE BEEN MADE AND TOPPING HAS BEEN CAST.

5.6 PRECAST MANUFACTURER SHALL PROVIDE STABILIZING ANGLES AND SIMILAR MISCELLANEOUS METALS, AS REQUIRED, FOR ALL PRECAST WORK.

5.7 PRECAST CONCRETE HOLLOW CORE SLAB LOCATIONS SHOWN ON THE DRAWINGS ARE ESTIMATED AND SHALL BE VERIFIED BY THE PRECAST MANUFACTURER.

5.8 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.

5.9 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.

5.10 BEARING STRIPS SHALL BE RANDOM ORIENTED FIBER REINFORCED MATERIAL CAPABLE OF SUPPORTING A COMPRESSIVE STRESS OF 3000 PSI WITH NO CRACKING, SPLITTING, OR DELAMINATION.

5.11 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.

6.0 STRUCTURAL STEEL

6.1 FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

6.2 THE STEEL FRAME IS "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE.

6.3 STRUCTURAL STEEL: ASTM A992 FOR WIDE FLANGE BEAMS AND COLUMNS; ASTM A36 FOR CHANNELS, STIFFENER PLATES, BASE PLATES, COLUMN CAP PLATES, BEAM CONNECTION PLATES AND STEEL ANGLES.

6.4 HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A500, GRADE B.

6.5 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.

6.6 THREADED AND PLAIN STEEL RODS: ASTM A36

6.7 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.

6.8 HEADED STUDS: TYPE B SHEAR STUD CONNECTORS MADE FROM ASTM A108, GRADE 1015 OR 1020, COLD-FINISHED CARBON, AND COMPLYING WITH AWS D1.1.

6.9 CONNECTIONS:

A. 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.

B. 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.

C. ALL STRUCTURAL STEEL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED TO RESIST FORCES INDICATED, BY THE CONTRACTOR.

1. 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.
2. WHERE BEAM REACTIONS OR DESIGN FORCES ARE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL CONTACT STRUCTURAL DESIGN GROUP FOR DIRECTION.

D. 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.

6.10 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.

6.11 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.

6.12 ALL HANDRAILS, GUARDRAILS, AND EMBEDS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE NOTED ABOVE, BY THE CONTRACTOR, UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. CALCULATIONS SHALL BEAR THE SEAL OF THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT AND SHALL BE INCLUDED WITH THE SHOP DRAWINGS.

6.13 PROVIDE ¾" THICK CLOSURE PLATES ON THE ENDS OF TUBE STEEL BEAMS. SHOP WELD TO BEAM WITH ¼" PARTIAL PENETRATION WELDS ALL AROUND.

6.14 INCLUDE A QUANTITY ALLOWANCE UNDER BASE BID FOR PROVIDING AN ADDITIONAL 3 TONS OF IN-PLACE MEDIUM - HEAVY STRUCTURAL STEEL SYSTEM CONSTRUCTION, NOT OTHERWISE INDICATED, TO BE SHOP FABRICATED, PRIMED, AND INSTALLED AT THE DIRECTION OF THE ARCHITECT. THIS STEEL MAY BE USED THROUGHOUT THE PROJECT AT MULTIPLE LOCATIONS OF ANY DIVISIBLE QUANTITY DENOMINATION OR LOCATION, INCLUDING BUT NOT LIMITED TO: LINTELS, BEAMS, COLUMNS, SHELF ANGLES, EDGE ANGLES, BENT PLATES, REBAR, JOISTS, ETC.

6.15 INCLUDE A QUANTITY ALLOWANCE UNDER BASE BID FOR PROVIDING AN ADDITIONAL 1/2 TON OF IN-PLACE MISCELLANEOUS STEEL SYSTEM CONSTRUCTION, NOT OTHERWISE INDICATED, TO BE FABRICATED, PRIMED, AND INSTALLED AT THE DIRECTION OF THE ARCHITECT. THIS STEEL MAY BE USED THROUGHOUT THE PROJECT AT MULTIPLE LOCATIONS OF ANY DIVISIBLE QUANTITY DENOMINATION OR LOCATION, INCLUDING BUT NOT LIMITED TO: FINISHED RAILINGS, CLIP ANGLES, EMBEDS, STAIR COMPONENTS, ETC.

7.0 MASONRY

7.1 MASONRY CONSTRUCTION SHALL CONFORM TO TMS 602-16 SPECIFICATION.

7.2 ALL MASONRY MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE RECOMMENDATIONS OF BRICK INSTITUTE OF AMERICA (BIA) AND NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA) AND MINIMUM REQUIREMENTS ESTABLISHED BY THE LOCAL BUILDING CODE.

7.3 MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNIT (f'm) SHALL BE 2000 PSI AT 28 DAYS.

7.4 NET COMPRESSIVE STRENGTH FOR EACH CMU UNIT SHALL MEET OR EXCEED 2000 PSI AT 28 DAYS. FOR TYPE N MORTAR, NET COMPRESSIVE STRENGTH FOR BLOCK SHALL BE GREATER THAN 2650 PSI.

7.5 GROUT COMPRESSIVE STRENGTH SHALL BE 2500 PSI AT 28 DAYS. GROUT SHALL ADDITIONALLY COMPLY WITH TABLE 6 OF TMS 602 FOR DIMENSIONS OF GROUT SPACES AND POUR HEIGHTS. COURSE GROUT SHALL BE USED WHERE POSSIBLE.

7.6 ALL MASONRY SHALL BE NORMAL WEIGHT IN ACCORDANCE WITH ASTM C90.

7.7 MORTAR SHALL BE TYPE S OR M. TYPE N MORTAR ALLOWED ONLY IF THE CMU NET COMPRESSIVE STRENGTH IS GREATER THAN 2650 PSI.

7.8 ALL MASONRY SHALL BE RUNNING BOND, UNLESS NOTED.

7.9 ALL BLOCK CELLS AND CAVITIES BELOW GRADE SHALL BE FILLED WITH CONCRETE OR GROUT.

7.10 MASONRY REINFORCING LAP SPLICE LENGTHS PER SCHEDULE, SEE MASONRY LAP SPLICE LENGTHS TYPICAL DETAIL.

7.11 THE CONTRACTOR SHALL PROVIDE DETAILED SHOP DRAWINGS OF THE CMU REINFORCEMENT.

A. SHOP DRAWINGS SHALL INCLUDE AN ELEVATION VIEW OF EACH REINFORCED WALL WITH ALL VERTICAL AND HORIZONTAL REINFORCING AS WELL AS WALL OPENINGS/PENETRATIONS SHOWN. REINFORCING SHOP DRAWINGS NOT CONTAINING THESE ELEVATION DRAWINGS WILL BE RETURNED AS AN INCOMPLETE SUBMITTAL.

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ADDITION TO FIELDHOUSE FOR
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SHELBY COUNTY BOARD OF EDUCATION

No. 22596
H. CRAIG WINN
H. Craig Winn, P.E.
9-22-2023

SHEET TITLE:
GENERAL NOTES

PROJ. MGR.: HCW
DRAWN: ABS
DATE: SEPTEMBER 22, 2023
REVISIONS

JOB NO. 23-63
SHEET NO:
S1
1 OF 13

0 1" 2"

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GENERAL NOTES CONTINUED

7.12 MODIFY CMU BLOCKS AS REQUIRED TO INSTALL REINFORCING AS NOTED/SHOWN.

7.13 CONTROL JOINTS IN CMU WALLS SHALL BE DISCONTINUOUS AT MASONRY BOND BEAMS. BOND BEAM REINFORCING SHALL EXTEND CONTINUOUS WITH MASONRY LAP SPLICES AND CORNER BARS. SEE TYPICAL DETAILS FOR ADDITIONAL INFORMATION.

7.14 WHEN REINFORCING IS SPECIFIED, PROVIDE REINFORCING AT EACH SIDE OF CONTROL JOINTS, OPENINGS AND WALL ENDS.

7.15 EXTEND REBAR AT WALL OPENINGS A MINIMUM OF 2'-0" PAST THE OPENING AT ALL CORNERS, UNLESS NOTED OTHERWISE. AT WINDOWS, PROVIDE A MINIMUM OF 2#4 BARS AT THE SILLS OF THE WINDOWS, UNLESS NOTED OTHERWISE.

7.16 AT CMU PARTITIONS OVER 8'-0" TALL, SUPPORTED BY SLAB ON GRADE, PROVIDE THICKENED SLAB PER TYPICAL DETAILS.

7.17 WHERE ANY CMU WALL IS NOT SUPPORTED AT THE TOP, PROVIDE MINIMUM #5@16 VERTICAL REINFORCING, UNLESS NOTED OTHERWISE.

7.18 PROVIDE WALL TOP SUPPORT AT 8'-0" O.C. FOR ALL INTERIOR NON-LOAD BEARING CMU WALLS WHERE CONTINUOUS WALL SPAN BETWEEN PERPENDICULAR BRACING WALLS EXCEEDS 20'-0". SEE TYPICAL DETAILS FOR ADDITIONAL INFORMATION.

7.19 PROVIDE HORIZONTAL JOINT REINFORCING IN REINFORCED MASONRY WALLS AS DIRECTED BY THE ARCHITECT. AT WALL CORNERS AND INTERSECTIONS, PROVIDE PREFABRICATED T AND L SHAPES, FIELD BENDING IS NOT PREMITTED. MINIMUM OF LADDER TYPE ZINC COATED CONFORMING TO ASTM A82 HOHMANN & BARNARD 220 LADDER-MESH OR EQUIVALENT AT EVERY OTHER BLOCK COURSE ABOVE FOOTING. REINFORCEMENT SHOULD CONSIST OF TWO OR MORE LONGITUDINAL WIRES, NO. 9 GAUGE OR LARGER, WELDED WITH NO. 9 GAUGE OR LARGER CROSS WIRES. LAP SPLICE HORIZONTAL JOINT REINFORCING A MINIMUM OF 12".

7.20 PROVIDE DOVETAIL ANCHORS AT 16" O.C., UNLESS NOTED OTHERWISE, WHERE MASONRY WALLS ABUT CONCRETE SURFACES.

7.21 PROVIDE GROUT FILLED LINTEL BLOCKS AT TOP OF ALL CMU WALLS REINFORCED WITH 2#4 BARS CONTINUOUS, UNLESS NOTED OTHERWISE.

7.22 CONDUITS, REFRIGERANT PIPING (WITH ANY REQUIRED INSULATION INCLUDED), CONDENSATE DRAIN LINES, ETC. UP TO 2" IN OUTSIDE DIAMETER MAY EXTEND CONTINUOUS THRU MASONRY WALLS & BOND BEAMS. COORDINATE WITH MECHANICAL, ELECTRICAL, PLUMBING, ETC. DRAWINGS FOR SIZE AND LOCATION. DO NOT INTERRUPT CONTINUOUS REINFORCING STEEL IN PLACEMENT OF CONDUITS, PIPING, DRAIN LINES, ETC.

7.23 WHERE MASONRY WALLS SUPPORT EARTH ON BOTH SIDES, BACKFILL EACH SIDE SIMULTANEOUSLY.

7.24 WHERE TOP OF FOOTING SUPPORTING MASONRY WALLS IS MORE THAN 2'-8" BELOW FINISH FLOOR, PROVIDE #6 AT 16" O.C., UP TO THE FIRST COURSE ABOVE FINISH FLOOR ELEVATION, IN ADDITION TO THE SPECIFIED REINFORCEMENT, UNLESS NOTED OTHERWISE.

7.25 THE MASONRY WALLS ARE "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE. BRACING SHALL BE PER THE FOLLOWING, AND CONTRACTOR SHALL PROVIDE ADDED REINFORCING AND GROUT IF REQUIRED BY THE BRACING.

A. THE "2012 STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION".
B. THE "MASONRY WALL BRACING HANDBOOK" AS PUBLISHED BY THE MASON CONTRACTORS ASSOCIATION OF AMERICA (MCAA) SHOULD BE USED IN CONJUNCTION WITH THE "STANDARD PRACTICE".

7.26 PROVIDE 2 COURSES OF GROUT FILLED OPEN BOTTOM BOND BEAM BLOCKS REINFORCED WITH 2#5 BARS CONTINUOUS AT ALL STEEL STAIR ATTACHMENT LOCATIONS, UNLESS NOTED OTHERWISE. CONTRACTOR COORDINATE EXACT LOCATIONS WITH STEEL STAIR DESIGNER.

8.0 WOOD CONSTRUCTION

8.1 ALL SAWN LUMBER IN CONTACT WITH SOIL, MASONRY OR CONCRETE, OR EXPOSED TO WEATHER TO HAVE A PRESERVATIVE PRESSURE TREATMENT IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATIONS (AWPA) STANDARD U1 (CURRENT EDITION).

8.2 CUT ENDS OR ALL TREATED LUMBER SHALL BE FIELD TREATED WITH AN APPROVED PRESERVATIVE IN ACCORDANCE WITH THE TREATMENT MANUFACTURERS INSTRUCTIONS AND AWPA STANDARD M4-08.

8.3 ALL LUMBER SHALL BE KILN DRIED TO A MAXIMUM MOISTURE CONTENT OF 19 PERCENT, INCLUDING PRESERVATIVE TREATED LUMBER.

8.4 ALL SCREWS, BOLTS, AND NAILS FOR USE WITH PRESERVATIVE TREATED WOOD SHALL BE HOT-DIPPED ZINC-COATED GALVANIZED STEEL OR STAINLESS STEEL. FASTENERS TO BE HOT-DIPPED GALVANIZED SHALL MEET THE REQUIREMENTS OF ASTM A 153, CLASS D FOR 3/8" DIAMETER OR SMALLER AND CLASS C FOR FASTENERS WITH DAIMETERS OVER 3/8".

8.5 FASTENERS OTHER THAN NAILS AND TIMBER RIVETS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM B 695, CLASS 55, MINIMUM.

8.6 METAL CONNECTORS SHOWN IN DOCUMENTS ARE SIMPSON STRONG TIE CONNECTORS. SUBSTITUTION WITH EQUAL CONNECTORS BY OTHER MANUFACTURERS IS ACCEPTABLE.

8.7 ALL HARDWARE (JOIST HANGERS, ETC.) SHALL BE GALVANIZED OR SHALL BE STAINLESS STEEL. HARDWARE TO BE HOT-DIPPED PRIOR TO FABRICATION SHALL MEET ASTM A 653, G-185 COATING. HARDWARE TO BE HOT-DIPPED AFTER FABRICATION SHALL MEET ASTM A 123.

8.8 FASTENER AND HARDWARE SELECTION: HOT-DIPPED GALVANIZED MATERIAL SHALL NOT BE USED IN CONTACT WITH STAINLESS STEEL MATERIAL.

8.9 ALL NAIL SIZES INDICATED IN DOCUMENTS ARE BASED ON COMMON WIRE NAILS. SUBSTITUTION OF DIFFERENT STYLE NAILS IS ACCEPTABLE BASED ON ACTUAL DIAMETER ONLY.

8.10 DESIGN, FABRICATE AND ERECT WOOD TRUSSES IN ACCORDANCE WITH THE "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES" OF THE TRUSS PLATE INSTITUTE. TRUSS ERECTION PLANS AND CALCULATIONS DESIGNED BY THE CONTRACTOR SHALL BE SUBMITTED FOR THE REVIEW OF THE STRUCTURAL ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

8.11 TRUSS MANUFACTURER SHALL DESIGN FOR THE FOLLOWING SUPERIMPOSED LOADS:

A. ROOF TOP CHORD DEAD LOAD----------10 PSF
B. ROOF BOTTOM CHORD DEAD LOAD----------10 PSF
C. ROOF TOP CHORD LIVE LOAD----------20 PSF
D. ROOF BOTTOM CHORD LIVE LOAD----------250 LBS (CONCENTRATED LOAD AT ANY LOCATION ALONG BOTTOM CHORD)

8.12 DESIGN OF ACTUAL WOOD TRUSS WEB CONFIGURATION TO BE DETERMINED BY TRUSS MANUFACTURER.

8.13 DESIGN WOOD TRUSSES TO RESIST THE WIND UPLIFT LOADING FROM THE COMPONENT AND CLADDING WIND LOAD TABLE PROVIDED IN THE TYPICAL DETAILS.

8.14 IN ADDITION TO THE ABOVE LOADS, WOOD TRUSSES SHALL BE DESIGNED FOR CONCENTRATED LOADS HUNG FROM OR SUPPORTED ON TRUSSES. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR LOADING INFORMATION AND LOCATION. LOADING AS REQUIRED BY OTHER SUBCONTRACTORS, SUCH AS FIRE PROTECTION, SHALL BE COORDINATED BY THE GENERAL CONTRACTOR. MAXIMUM LOAD IS 200 LBS PER CONNECTION ACCORDING TO NOTE BELOW. SUBCONTRACTOR SHALL PROVIDE HANGER SPACINGS TO NOT EXCEED 200 LBS LOAD TO TRUSS.

8.15 ALL TRUSS TO TRUSS CONNECTIONS SHALL BE DESIGNED BY THE TRUSS MANUFACTURER FOR THE LOADS INDICATED.

8.16 ALL TEMPORARY AND PERMANENT BRACING MEMBERS AND CONNECTIONS REQUIRED FOR WOOD TRUSSES SHALL BE DESIGNED AND DETAILED ON THE WOOD TRUSS MANUFACTURER'S ERECTION PLANS. BRACING MEMBERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR ACCORDING TO THE TRUSS MANUFACTURER'S ERECTION PLANS AND "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING, AND BRACING OF METAL PLATE CONNECTED WOOD TRUSSES" BY BCSI, LATEST EDITION.

8.17 TEMPORARY BRACING SHALL NOT IMPOSE ANY FORCE ON THE SUPPORTING STRUCTURE. PERMANENT BRACING FORCES SHALL BE TRANSFERRED TO THE ROOF DIAPHRAGM BY THE BRACING DESIGN PROVIDED BY THE TRUSS MANUFACTURER.

8.18 ROOF SHEATHING: 5/8" PLYWOOD, APA RATED SHEATHING EXPOSURE 1, WITH PLY CLIPS AT ALL UNSUPPORTED EDGES. PANEL IDENTIFICATION INDEX 48/24.LONG DIMENSION OF PANEL PERPENDICULAR TO SUPPORTS.

8.19 ROOF SHEATHING NAILING, UNLESS NOTED: 10d NAILS AT 6 INCHES AT ALL FOUR PANEL EDGES AND 12 INCHES AT INTERMEDIATE SUPPORTS

8.20 WINDOW AND DOOR HEADERS ARE TO BE (2) 2x10 UNLESS NOTED.

8.21 BUILT UP BEAMS (DIMENSIONED LUMBER): NAIL INDIVIDUAL PLIES TOGETHER WITH TWO ROWS OF 10d NAILS AT 16" STAGGERED.

8.22 WOOD STUDS FOR WALLS: #2 SPRUCE PINE FIR. SPACING SHALL BE AT 16" ON CENTER FOR EXTERIOR 2x6 STUD WALLS AND AT 12" ON CENTER FOR INTERIOR 2x4 STUD WALLS.

8.23 WOOD FRAMING MEMBERS: #2 SOUTHERN PINE UNLESS NOTED.

9.0 POST-INSTALLED ANCHORS AND REINFORCING

9.1 POST-INSTALLED ANCHORS AND/OR REINFORCING SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS AND/OR REINFORCING IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS AND/OR REINFORCING.

9.2 THE BELOW PRODUCTS ARE THE DESIGN BASIS FOR THIS PROJECT. PRODUCT DIAMETER AND EMBEDMENT SHALL BE SHOWN IN THE DETAILS.

9.3 FOR ANCHORING INTO CONCRETE:

A. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. PRE-APPROVED PRODUCTS INCLUDE:

1. SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713 & IAPMO-UES ER-493)
2. SIMPSON STRONG-TIE "STRONG-BOLT 2" (ICC-ES ESR-3037)
3. SIMPSON STRONG-TIE "TITEN-HD ROD HANGER" (ICC-ES ESR-2713)
4. SIMPSON STRONG-TIE "TITEN TURBO" (IAPMO-UES ER-712) - FOR UNCRACKED CONCRETE ONLY
5. HILTI KWIK HUS-EZ (KH-EZ), KH-EZ CRC, KH-EZ SS316, KH-EZ C, KH-EZ E, KH-EZ-I, AND KH-EZ P SCREW ANCHOR SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM (ICC ESR-3027)
6. HILTI KWIK BOLT-TZ2 EXPANSION ANCHOR SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM AND SI-AT-A22 TOOL WITH ADAPTIVE TORQUE FOR APPLICABLE SIZES (ICC ESR-4266)
7. HILTI KWIK BOLT 1 EXPANSION ANCHOR SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM AND SI-AT-A22 TOOL WITH ADAPTIVE TORQUE FOR APPLICABLE SIZES (ICC ESR-678)
8. HILTI HDA UNDERCUT ANCHORS (ICC ESR 1546)
9. HILTI HSL-4 EXPANSION ANCHORS (ICC ESR 4386)
10. DEWALT SCREW-BOLT+ (ICC-ES ESR-3889)
11. DEWALT POWER-STUD+ SD2 (ICC-ES ESR-2502)
12. DEWALT POWER-STUD SD1 (ICC-ES ESR-2818)
13. DEWALT HANGERMATE+ (ICC-ES ESR-3889)
14. DEWALT CCU+ UNDERCUT (ICC-ES ESR-4810)
15. DEWALT POWER-BOLT+ (ICC-ES ESR-3260)

B. MECHANICAL ANCHORS FOR USE IN THE UNDER SIDE OF NORMAL WEIGHT HOLLOW CORE AND POST TENSION SLAB WHERE EMBEDMENT DEPTH MUST NOT EXCEED ¾". PRE-APPROVED PRODUCTS INCLUDE:

1. DEWALT MINI-UNDERCUT+ (ICC-ES ESR-3912)
2. HILTI HDP-P TZ DROP-IN ANCHOR (ICC ESR-4236)

C. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 355.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE DRILL BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS, SUCH AS HORIZONTAL TO UPWARD INCLINED ORIENTATION UNDER SUSTAINED TENSION LOADING, SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-19 26.7.2 & 26.7.2(e). INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-19 26.7.2 & 26.7.2(e). PRE-APPROVED PRODUCTS INCLUDE:

1. SIMPSON STRONG-TIE "SET-3G" (ICC-ES ESR-4057)
2. SIMPSON STRONG-TIE "AT-XP" (IAPMO-UES ER-263)
3. SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508)
4. HILTI HIT-HY 200 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM WITH CONTINUOUSLY DEFORMED REBAR (ICC ESR-4868)
5. HILTI HIT-RE 500 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM WITH CONTINUOUSLY DEFORMED REBAR (ICC ESR-3814)
6. DEWALT PURE110+ FOR WARM WEATHER/SLOW CURE (ICC-ES ESR-3298); FOR ANCHORS AND REBAR: WHEN DEWALT DUSTX+ EXTRACTION SYSTEM IS USED, TRADITIONAL HOLE CLEANING METHODS USING STEEL BRUSHES AND COMPRESSED DRY AIR MAY BE COMPLETELY OMITTED PER ICC-ES ESR-3298
7. DEWALT AC200+ FOR COLD WEATHER/RAPID CURE (ICC-ES ESR-4027); FOR ANCHORS AND REBAR: WHEN DEWALT DUSTX+ EXTRACTION SYSTEM IS USED, TRADITIONAL HOLE CLEANING METHODS USING STEEL BRUSHES AND COMPRESSED DRY AIR MAY BE COMPLETELY OMITTED PER ICC-ES ESR-4027

D. POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:

1. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811)
2. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)
3. HILTI "UNIVERSAL KNURLED SHANK FASTENERS" X-U (ICC ESR-2269)
4. DEWALT "TRAK-IT C5", GAS ACTUATED (ICC-ES-ESR 2024)
5. DEWALT "TRAK-IT C5", GAS ACTUATED (ICC-ES-ESR 3275)

9.4 FOR ANCHORING INTO MASONRY:

A. SOLID-GROUTED CONCRETE MASONRY

1. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC01 OR ICC-ES AC106. PRE-APPROVED PRODUCTS INCLUDE:

a. SIMPSON STRONG-TIE "TITEN-HD" & "STAINLESS STEEL TITEN HD" (ICC-ES ESR-1056)
b. SIMPSON STRONG-TIE "STRONG-BOLT 2" (IAPMO-UES ER-240)
c. SIMPSON STRONG-TIE "WEDGE-ALL" (ICC-ES ESR-1396)
d. SIMPSON STRONG-TIE "TITEN TURBO" (IAMPO-UES ER-716)
e. HILTI KH-EZ, KH-EZ CRC, KH-EZ SS316, KH-EZ C, AND KH-EZ P SCREW ANCHORS (ICC ESR-3056)
f. HILTI KWIK BOLT-1 EXPANSION ANCHOR (ICC ER-677)
g. HILTI KWIK BOLT-TZ2 EXPANSION ANCHOR (ICC ESR-4561)
h. DEWALT "SCREW-BOLT+" (ICC-ES ESR 4042)
i. DEWALT "POWER-STUD+ SD1" (ICC-ES ESR 2966)

2. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED PRODUCTS INCLUDE:

a. SIMPSON STRONG-TIE "AT-XP" (IAPMO-UES ER-281)
b. SIMPSON STRONG-TIE "SET-XP" (IAPMO-UES ER-265)
c. HILTI HIT-HY 270 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM (ICC ESR-4143); STEEL ANCHOR ELEMENT SHALL BE HILTI-HAS CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR
d. HILTI HIT-HY 200 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM (ICC ESR-4878)
e. DEWALT AC100+ GOLD (ICC-ES ESR-3200)

3. POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:

a. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811)
b. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)
c. HILTI "UNIVERSAL KNURLED SHANK FASTENERS" X-U (ICC ESR-2269)
d. DEWALT "TRAK-IT C5", GAS ACTUATED (ICC-ES-ESR 3275)

B. HOLLOW CONCRETE MASONRY

1. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC106. PRE-APPROVED PRODUCTS INCLUDE:

a. SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056)
b. SIMPSON STRONG-TIE "TITEN TURBO" (IAPMO-UES ER-716)

2. ADHESIVE FOR REBAR AND ANCHORS WITH SCREEN TUBES SHALL HAVE BEEN TESTED FOR USE IN ACCORDANCE WITH ICC-ES AC58. THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MANUFACTURER. PRE-APPROVED PRODUCTS INCLUDE:

a. SIMPSON STRONG-TIE "SET-XP" (IAPMO-UES ER-265)
b. HILTI HIT-HY 270 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM (ICC ESR-4143); STEEL ANCHOR ELEMENT SHALL BE HILTI-HAS CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR. THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER ADHESIVE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
c. DEWALT AC100+ GOLD (ICC-ES ESR-3200)

3. POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:

a. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811)
b. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)
c. HILTI "DRYWALL TRACK FASTENERS" X-DW (ICC ESR-1663)

C. UNREINFORCED BRICK MASONRY (URM): ADHESIVE FOR REBAR AND ANCHORS WITH SCREEN TUBES SHALL HAVE BEEN TESTED FOR USE IN ACCORDANCE WITH ICC-ES AC60. THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MANUFACTURER. PRE-APPROVED PRODUCTS INCLUDE:

1. SIMPSON STRONG-TIE "ET-HP" (ICC-ES ESR-3638)
2. HILTI HIT-HY 270 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM (ICC ESR-4143); STEEL ANCHOR ELEMENT SHALL BE HILTI-HAS CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR. THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER ADHESIVE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
3. DEWALT "AC100+ GOLD" (ICC-ES ESR-4105)

9.5 FOR FASTENING INTO STEEL: POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:

A. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811)
B. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)
C. HILTI FASTENERS IN LIEU OF #12 TEK SCREWS:

1. HILTI S-MD 12-24X1-5/8 HWH5 SCREWS FOR STUDS, JOISTS AND BEAMS 16 GA ≤ TF ≤ 1/4"
2. HILTI X-HSN 24 PINS FOR JOISTS AND BEAM 1/8" ≤ TF ≤ 3/8"
3. HILTI X-ENP 19 L15 PINS FOR BEAMS TF ≥ 1/4".

D. DEWALT "POWER DRIVEN FASTENERS", POWDER ACTUATED (ICC-ES-ESR 2024)
E. DEWALT "TRAK-IT C5", GAS ACTUATED (ICC-ES-ESR 3275)

9.6 REFER TO THE PROJECT BUILDING CODE AND/OR EVALUATION REPORT FOR SPECIAL INSPECTIONS AND PROOF LOAD REQUIREMENTS.

9.7 SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE LISTED MAY BE SUBMITTED BY THE CONTRACTOR TO THE EOR FOR REVIEW NO LESS THAN TWO WEEKS PRIOR TO BID. SUBSTITUTIONS WILL ONLY BE CONSIDERED FOR PRODUCTS HAVING A RESEARCH REPORT RECOGNIZING THE PRODUCT FOR THE APPROPRIATE APPLICATION UNDER THE PROJECT BUILDING CODE. SUBSTITUTION REQUESTS SHALL INCLUDE CALCULATIONS PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATE THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE EQUIVALENT. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE, AND INSTALLATION TEMPERATURE.

9.8 INSTALL ANCHORS PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII), OR AS INCLUDED IN THE ANCHOR PACKAGING.

9.9 THERE IS TO BE NO GAP BETWEEN CONNECTED PARTS, UNLESS SHIMS ARE PROVIDED. ANCHORS ARE TO SECURE CONNECTED PARTS TOGETHER SNUGLY AND SECURELY.

9.10 OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE MANUFACTURER'S INSTRUCTIONS AND INSTALLER MUST BE ACI CERTIFIED.

9.11 THE CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

9.12 THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S SPECIAL INSPECTION AGENCY FOR CONTINUOUS SPECIAL INSPECTION OF ADHESIVE ANCHORS AND PERIODIC INSPECTION OF MECHANICAL ANCHORS, SEE SPECIAL INSPECTION SCHEDULE FOR ADDITIONAL INFORMATION.

9.13 ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

9.14 EXISTING REINFORCING BARS AND/OR CONDUIT IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS AND/OR REINFORCING TO AVOID CONFLICTS WITH EXISTING REBAR AND/OR CONDUIT. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS BY GPR, X-RAY, HILTI PS 1000 X-SCAN, CHIPPING, OR OTHER MEANS.

10.0 PREFABRICATED CANOPY

10.1 PROTECTIVE COVER WALKWAYS AND PREFABRICATED CANOPIES SHALL BE CONSIDERED A DEFERRED SUBMITTAL TO THE BUILDING INSPECTION AGENCY.

10.2 PROTECTIVE COVER WALKWAYS AND PREFABRICATED CANOPIES SHALL BE FULLY ENGINEERED BY THE CANOPY MANUFACTURER AND CONTRACTOR UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

10.3 CALCULATIONS SHALL ACCOMPANY THE SHOP DRAWINGS AND SHALL INCLUDE DESIGN OF ALL WALKWAY/CANOPY SYSTEM COMPONENTS INCLUDING, BUT NOT LIMITED TO, FOOTINGS, MEMBERS, CONNECTIONS AND ATTACHMENT TO STRUCTURE.

10.4 PROTECTIVE COVER WALKWAY AND PREFABRICATED CANOPY SHOP DRAWINGS SHALL BE SUBMITTED TO INCLUDE A FULL DESCRIPTION OF ALL CANOPY MEMBERS, INCLUDING COLUMNS, BEAMS, FOOTINGS, FASCIA, ETC. SHOP DRAWINGS SHALL BEAR THE SEAL OF THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

10.5 IF PROTECTIVE COVER WALKWAYS AND PREFABRICATED CANOPIES SHALL BE ATTACHED TO BUILDING, MINIMUM 16" DEEP BOND BEAM IS TO BE PROVIDED WITHIN THE LOAD-BEARING MASONRY WALL FOR WALKWAY AND CANOPY ANCHORAGE AS REQUIRED. MINIMUM 16" DEEP BOND BEAM IS TO BE CONSTRUCTED ON (2) 8" DEEP FORM BLOCKS WITH 2#5 CONTINUOUS IN EACH COURSE. CONNECTIONS TO BUILDING BY CANOPY MANUFACTURER, CONTRACTOR COORDINATE. DO NOT ANCHOR WALKWAY AND CANOPY TO VENEER. ANCHOR WALKWAY AND CANOPY INTO LOAD-BEARING MASONRY WALL WITH THREADED RODS IN PIPE SLEEVES. FOR ADDITIONAL INFORMATION, SEE ARCHITECTURAL DRAWINGS.

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11 . CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER
H. CRAIG WINN, JR., P.E.
9-22-2023

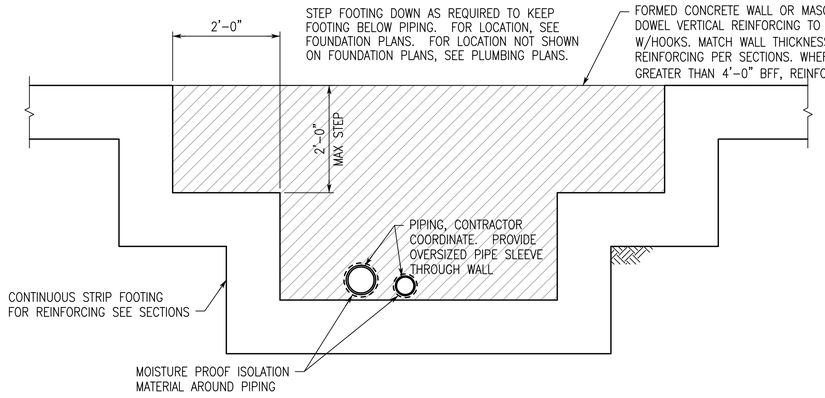
SHEET TITLE:
GENERAL NOTES CONTINUED

PROJ. MGR.: HCW
DRAWN: ABS
DATE: SEPTEMBER 22, 2023
REVISIONS

JOB NO. 23-63
SHEET NO:
S2
2 OF 13

0 1" 2"

SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number 23-168



FOOTING/FOUNDATION WALL AT PIPING
TYPICAL

MASONRY REINFORCING LAP SPLICE 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:
1. LAP SPLICE LENGTHS APPLY TO BOTH HORIZONTAL AND VERTICAL REINFORCING.
2. REINFORCEMENT LARGER THAN NO. 9 BAR SHALL BE SPLICED USING MECHANICAL CONNECTIONS IN ACCORDANCE WITH ACI 530 & ACI 530.1.

LOAD BEARING RUNNING BOND MASONRY LINTEL SCHEDULE

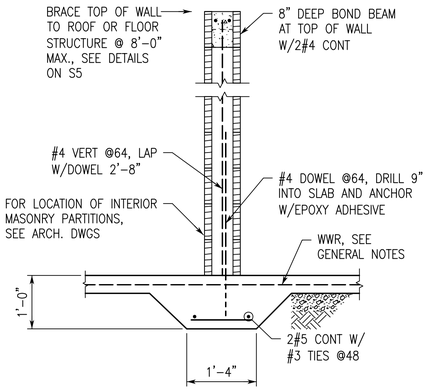
MAXIMUM OPENING WIDTH	LINTEL DIMENSIONS AND REINFORCING		
	DEPTH	8" WALL	12" WALL
4'-0"	24	2#5 BOT & 2#5 TOP	2#5 BOT & 2#5 TOP
6'-0"	32	2#5 BOT & 2#5 TOP	2#6 BOT & 2#6 TOP
8'-0"	32	2#6 BOT & 2#6 TOP	2#6 BOT & 2#6 TOP
10'-0"	48	2#6 BOT & 2#6 TOP	2#6 BOT & 2#6 TOP
12'-0"	48	2#6 BOT & 2#6 TOP	2#6 BOT & 2#6 TOP

1. PROVIDE 24" MINIMUM BEARING FOR ALL LINTELS. FILL CELLS SOLID AT EACH SIDE OF OPENING AND REINFORCE WITH 1#5 BAR CONTINUOUS. (JAMB BARS OF SAME SIZE AS VERTICAL WALL REINFORCING BARS.)
2. SHORE LINTEL UNTIL MORTAR AND GROUT HAVE SET AND CURED.
3. PROVIDE 8" DEEP BOND BEAM REINFORCED WITH 2#5 CONT AT BOTTOM OF ALL OPENINGS. EXTEND 24" PAST OPENING ON EACH SIDE OF OPENING.

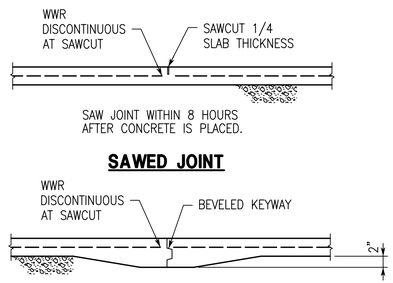
NON-LOAD BEARING RUNNING BOND MASONRY LINTEL SCHEDULE

MAXIMUM OPENING WIDTH	LINTEL DIMENSIONS AND REINFORCING				
	DEPTH	8" WALL		12" WALL	
		REINFORCING	MAX HEIGHT OF WALL ABOVE LINTEL	REINFORCING	MAX HEIGHT OF WALL ABOVE LINTEL
2'-0"	8	1#4 BOT	20'-0"	1#4 BOT	22'-0"
4'-0"	8	1#4 BOT	10'-0"	2#4 BOT	9'-4"
6'-0"	8	1#5 BOT & 1#4 TOP	4'-0"	2#5 BOT & 2#4 TOP	4'-8"
8'-0"	16	1#6 BOT & 1#5 TOP	15'-4"	2#5 BOT & 2#4 TOP	16'-0"
10'-0"	16	1#7 BOT & 1#5 TOP	10'-0"	2#6 BOT & 2#4 TOP	12'-0"
12'-0"	16	1#8 BOT & 1#5 TOP	7'-4"	2#7 BOT & 2#5 TOP	10'-8"

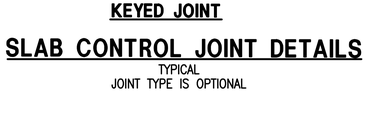
1. DO NOT USE THIS SCHEDULE IF WALL IS LOAD BEARING SUPPORTING ANYTHING OTHER THAN WALL WEIGHT ONLY. IF WALL IS LOAD BEARING USE THE LOAD BEARING STACK BOND MASONRY LINTEL SCHEDULE.
2. PROVIDE 2'-0" MINIMUM BEARING FOR ALL LINTELS. FILL CELLS SOLID AT EACH SIDE OF OPENING AND REINFORCE WITH 1#5 BAR CONTINUOUS.
3. WHERE MAXIMUM HEIGHT OF WALL ABOVE LINTEL IS EXCEEDED, PROVIDE ADDITIONAL LINTELS EQUALLY SPACED ABOVE TO LIMIT WALL HEIGHTS ABOVE LINTEL TO THAT SHOWN IN THE TABLE ABOVE.
4. SHORE LINTEL UNTIL MORTAR AND GROUT HAVE SET AND CURED.
5. PROVIDE 8" DEEP BOND BEAM REINFORCED WITH 2#4 CONT AT BOTTOM OF ALL OPENINGS. EXTEND 2'-0" PAST OPENING ON EACH SIDE OF OPENING.



INTERIOR PARTITION WALL ON THICKENED SLAB ON GRADE DETAIL
TYPICAL



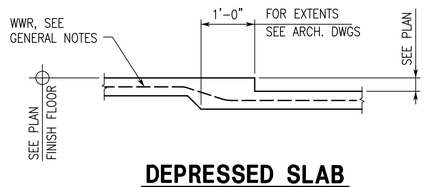
SAWED JOINT



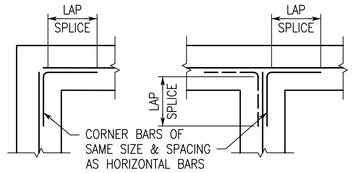
KEYED JOINT

SLAB CONTROL JOINT DETAILS
TYPICAL
JOINT TYPE IS OPTIONAL

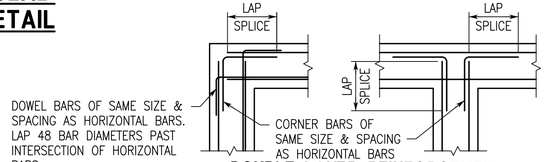
NOTE:
CONTRACTOR COORDINATE W/ARCHITECT FOR ALL DEPRESSED SLAB AREAS BEFORE SLAB ON GRADE IS PLACED.



DEPRESSED SLAB ON GRADE DETAIL
TYPICAL



SINGLE LAYER REINFORCEMENT



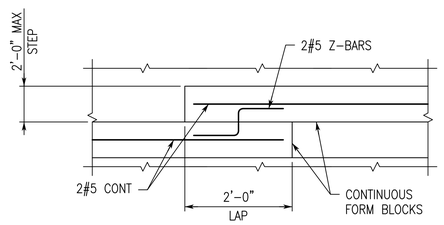
DOUBLE LAYER REINFORCEMENT

NOTE: ALL LAP SPLICES CLASS "B" TENSION

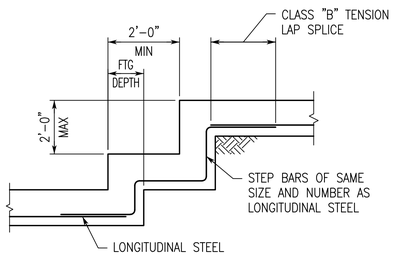
FOOTING, SLAB OR WALL CORNER REINFORCING DETAIL
TYPICAL

VENEER LINTEL SCHEDULE	
MAXIMUM OPENING WIDTH	STEEL FOR EACH 4" OF WALL THICKNESS
2'-0"	L5x5x3/8 MINIMUM
4'-0"	L5x5x3/8 MINIMUM
6'-0"	L5x5x3/8 MINIMUM
8'-0"	L5x5x3/8 MINIMUM
LARGER	CONTACT ENGINEER

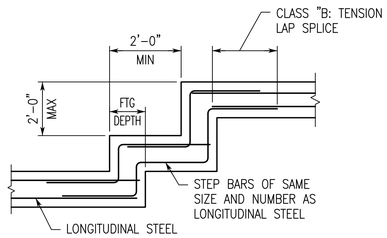
1. PROVIDE 8" MINIMUM BEARING FOR ALL LINTELS.
2. ALL EXPOSED LINTEL ANGLES TO BE HOT DIP GALVANIZED.
3. CONTRACTOR TO COORDINATE DIMENSION OF OUTSTANDING LEG WITH MINIMUM VENEER SUPPORT REQUIREMENT(S) AND WITH DETAILS INDICATED ON ARCH. DWGS.



MASONRY BOND BEAM STEP DETAIL
TYPICAL



FOOTING STEP DETAIL
TYPICAL



FOOTING STEP DETAIL
TYPICAL

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11 , CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

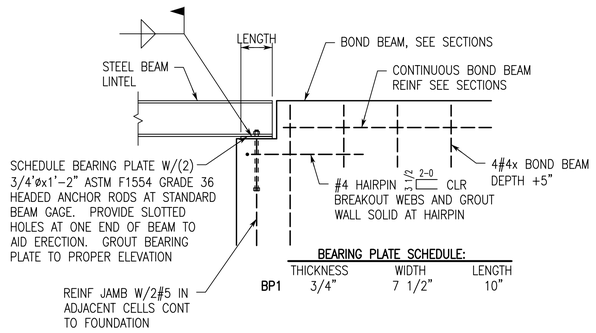
ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER H. CRAIG WINN P.E.
9-22-2023

SHEET TITLE:
TYPICAL DETAILS

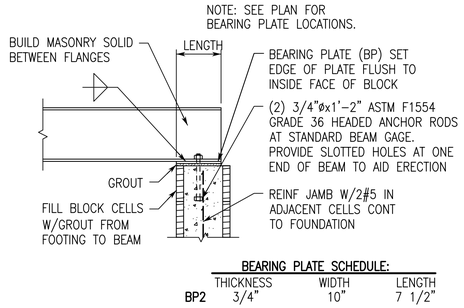
PROJ. MGR.:	HCW
DRAWN:	ABS
DATE: SEPTEMBER 22, 2023	
REVISIONS	

JOB NO. 23-63
SHEET NO:
S3
3 OF 13
0 1" 2"

SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number 23-168



BEAM BEARING DETAIL IN LINE WITH CMU WALL
TYPICAL



BEAM BEARING DETAIL
TYPICAL

PIPING WEIGHTS

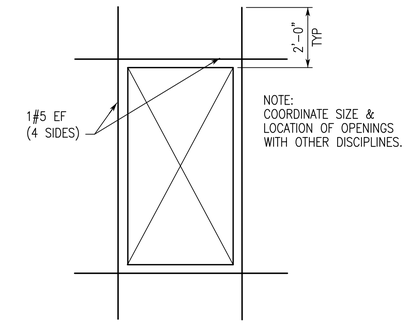
PIPE DIAMETER	PIPE WT PER/FOOT (PLF)	FLUID WT PER/FOOT (PLF)	INSULATION & HANGERS (PLF)	TOTAL WT PER/FOOT (PLF)
4"	10.80	6.10	2.00	18.90
6"	19.00	13.80	3.00	35.80
8"	28.60	23.90	4.00	56.50
10"	40.50	37.50	4.00	82.00
12"	49.60	54.00	5.00	108.60
14"	54.60	65.70	5.00	125.30
16"	62.60	87.10	5.00	154.70

NOTES:
1. FROM ANVIL INTERNATIONAL PIPE FITTERS HANDBOOK.
2. ALL PIPES ASSUMED TO BE SCHEDULE 40.
3. FLUID WEIGHT INCLUDES ALLOWANCE FOR GLYCOL CONCENTRATION.
4. 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.
5. FOR PIPE SIZES NOT LISTED, CONTACT STRUCTURAL ENGINEER.

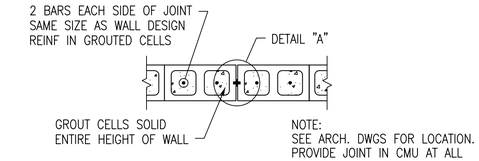
TENSION LAP SPLICE LENGTHS

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

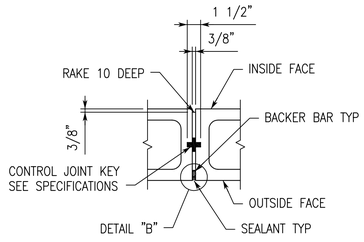
NOTES:
1. TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF CONCRETE CAST BELOW THE REINFORCEMENT.
2. FOR TENSION LAP SPLICE LENGTHS FOR 3500 PSI CONCRETE, USE LENGTHS DESIGNATED FOR 3000 PSI CONCRETE.



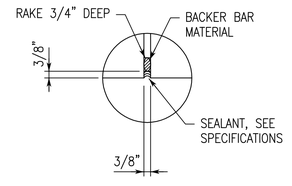
WALL OPENING REINFORCMENT DETAIL
TYPICAL



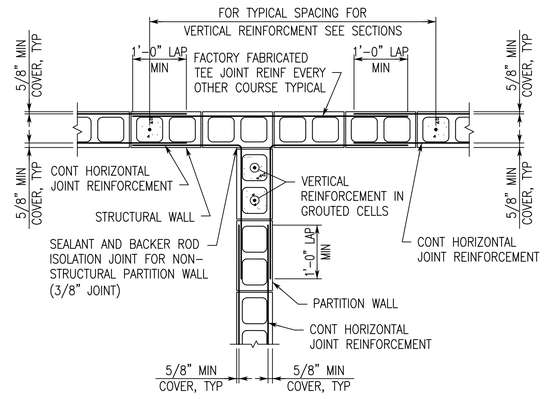
PLAN MASONRY CONTROL JOINT
3/4"=1'-0'



DETAIL "A" MASONRY CONTROL JOINT
1 1/2"=1'-0"

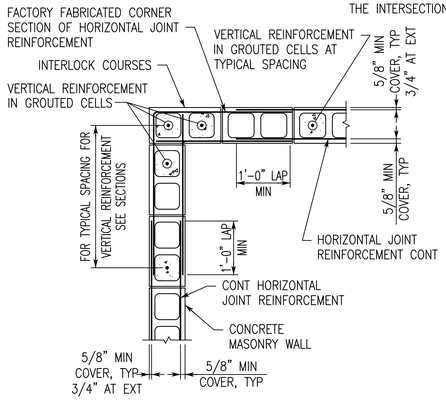


DETAIL "B" MASONRY CONTROL JOINT
3"=1'-0"

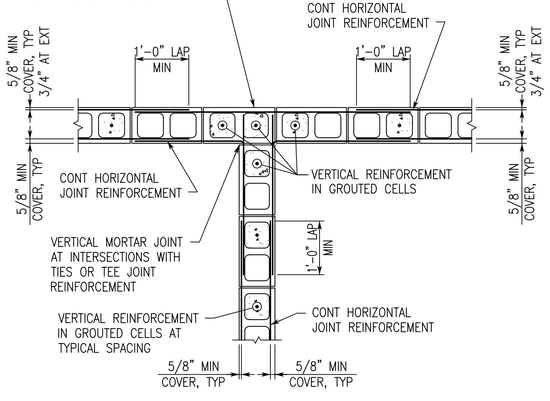


PARTITION WALLS ABUTTING STRUCTURAL WALLS
TYPICAL

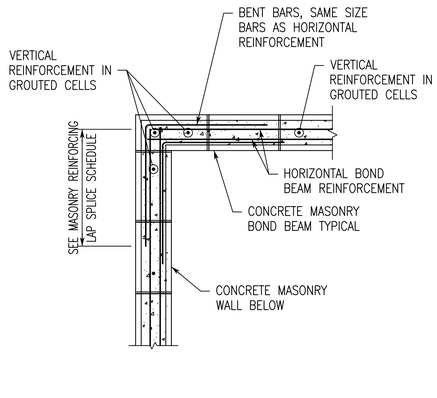
ANCHOR WALLS BY:
1. INTERSECTING 50% OF UNITS OVERLAPPING WITH ALTERNATE UNITS BEARING 3" MINIMUM ON THE UNIT BELOW.
2. GALV PL 1/4x1 1/2x2'-4" TIE @ 4'-0" OC WITH ENDS BENT 2", ALTERNATING ENDS UP AND DOWN.
3. FACTORY FABRICATED TEE JOINT REINFORCING SPACED 8" OC AND EXTENDING 30" MINIMUM IN EACH DIRECTION AT THE INTERSECTION.



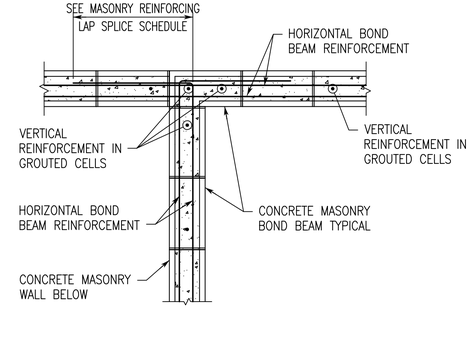
PLAN SHOWING JOINT REINFORCEMENT AT WALL CORNER
TYPICAL



PLAN SHOWING JOINT REINFORCING AT STRUCTURAL WALL INTERSECTION
TYPICAL



PLAN SHOWING BOND BEAM REINFORCEMENT AT WALL CORNER
TYPICAL



PLAN SHOWING BOND BEAM AT STRUCTURAL WALL INTERSECTION
TYPICAL

LATHAN ARCHITECTS

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SHELBY COUNTY BOARD OF EDUCATION

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER H. CRAIG WINN
H. Craig Winn P.E.
9-22-2023

SHEET TITLE:
TYPICAL DETAILS

PROJ. MGR.:	HCW
DRAWN:	ABS
DATE: SEPTEMBER 22, 2023	
REVISIONS	

JOB NO. 23-63
SHEET NO:
S4
4 OF 13
0 1" 2"

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LATHAN
ARCHITECTS

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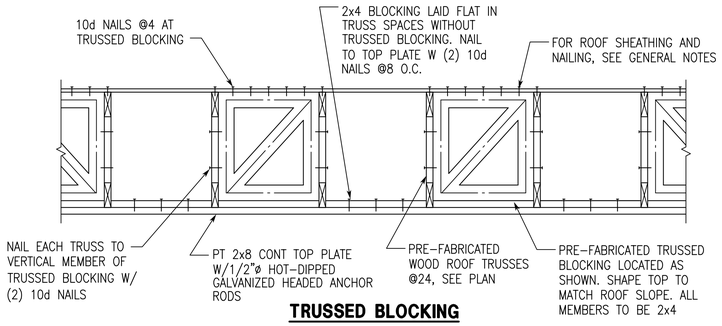
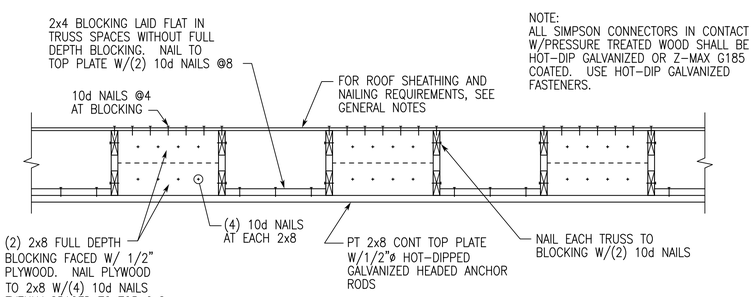


TRUSSED BLOCKING

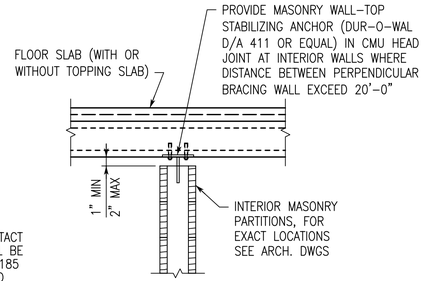


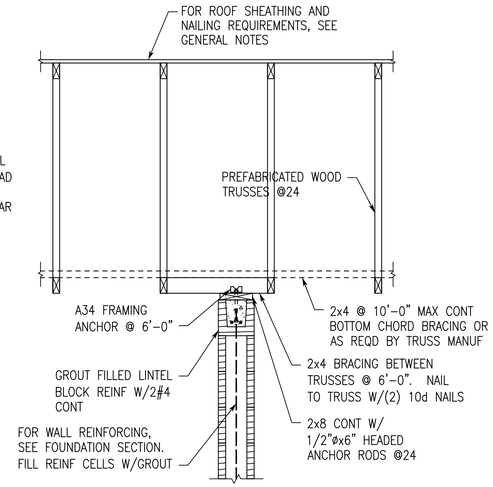
2x BUILT-UP BLOCKING

TRUSS BLOCKING AT EXTERIOR WALL

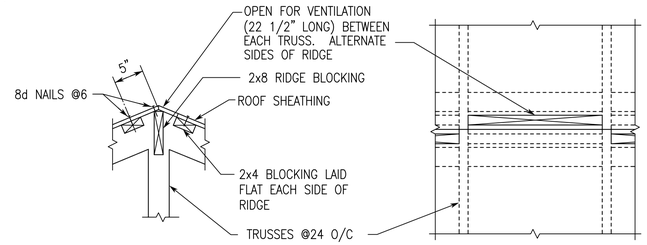
TYPICAL

NOTE:
CONTRACTORS OPTION TO USE EITHER TRUSSED BLOCKING OR 2x BUILTUP BLOCKING AT AREAS WHERE TRUSS HEEL HEIGHT EXCEEDS THAT WHICH TYPICAL 2x SOLID DEPTH BLOCKING IS PRACTICAL.





MASONRY WALL SUPPORT AT ROOF



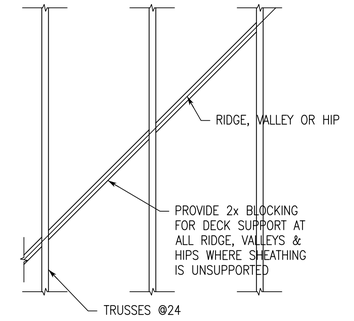
SECTION

NOTE:
RIDGE VENT NOT SHOWN. SEE ARCH.

PLAN

BLOCKING AT RIDGE VENT

TYPICAL



ROOF SHEATHING SUPPORT DETAIL

TYPICAL

COMPONENTS AND CLADDING WIND LOADS FOR WALLS (PSF)

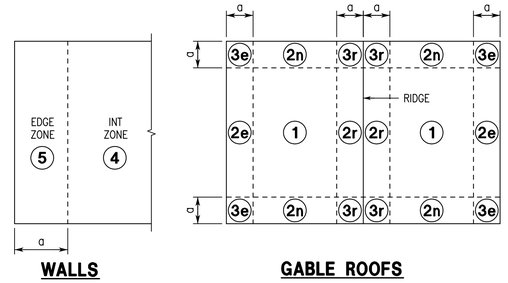
H = 26'-0" 4:12 Roof Slope	EFFECTIVE WIND AREA (FT^2)	109 MPH VELOCITY (3-SEC. GUST) ZONES 4 & 5	ZONES 4 (Int.)	ZONES 5 (Edge)
	10	34.2	-37.1	-45.8
	20	32.7	-35.5	-42.7
	50	30.6	-33.5	-38.7
	100	29.1	-31.9	-35.6
	200	27.5	-30.4	-32.5
	500	25.5	-28.4	-28.4

NOTES:
1. WIDTH OF EDGE STRIP 'a' = 3'-3".
2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE7-16 STANDARD TABLE 30.3-1. VALUES SHOWN ARE ULTIMATE.
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)

109 MPH VELOCITY (3-SEC. GUST)		ROOF					OVERHANG				
H = 26'-0" 4:12 Roof Slope	EFFECTIVE WIND AREA (FT^2)	Positive Max. Net Pressure 'p' (PSF)	Zone 1 & 2e (Int.) (PSF)	Zone 2n, 2r, & 3e (Edge) (PSF)	Zone 3r (Corner) (PSF)		Zone 1 & 2e (Int) - Max. Net Pressure 'p' (PSF)	Zone 2n & 2r (Edge) - Max. Net Pressure 'p' (PSF)	Zone 3e (Corner) - Max. Net Pressure 'p' (PSF)	Zone 3r (Corner) - Max. Net Pressure 'p' (PSF)	
	10	20.7	-63.2	-92.2	-109.6		-72.5	-101.5	-118.8	-136.2	
	20	18.7	-63.2	-79.7	-93.9		-72.5	-92.1	-102.6	-115.3	
	50	16.0	-38.4	-63.2	-73.1		-56.0	-79.7	-81.2	-87.6	
	100	16.0	-19.7	-50.7	-57.4		-43.5	-70.3	-64.9	-66.7	
	200	16.0	-19.7	-38.2	-57.4		-43.5	-61.0	-48.7	-66.7	
	500	16.0	-19.7	-34.2	-57.4		-43.5	-58.0	-43.5	-66.7	

NOTES:
1. WIDTH OF EDGE STRIP 'a' = 3'-3".
2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE7-16 STANDARD TABLE 30.3-1. VALUES SHOWN ARE ULTIMATE.
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 FRAMING MEMBERS 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 GABLE ROOFS

WALL AND ROOF WIND PRESSURE ZONE DIAGRAMS

TYPICAL

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER H. CRAIG WINN
H. Craig Winn, P.E.
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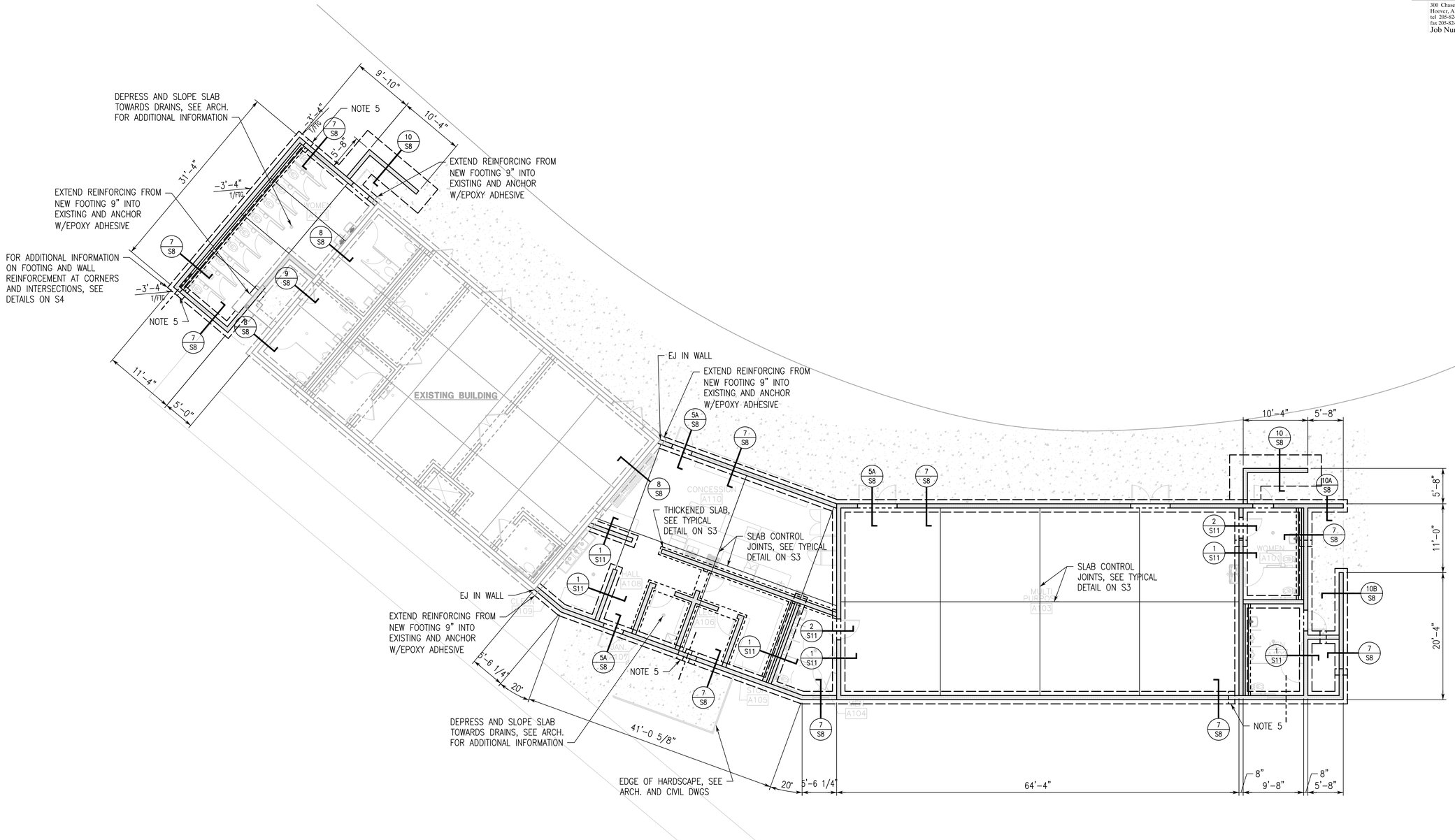


PROJECT NORTH

FOUNDATION PLAN

1/8"=1'-0"

1. FINISH FLOOR (TOP OF SLAB) ELEVATION MATCH EXISTING, UNLESS NOTED.
2. TOP OF FOOTING ELEVATION -1'-4" MATCH EXISTING, UNLESS NOTED.
3. FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS.
4. GENERAL CONTRACTOR SHALL COORDINATE TILE JOINT LOCATION WITH CONTROL JOINTS.
5. 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 S3.
6. FOOTING WIDTHS INDICATED ON PLAN MAY OR MAY NOT BE TO SCALE. COORDINATE WITH SECTION CUTS FOR FOOTING WIDTHS AND ADDITIONAL INFORMATION.
7. FOR PAVEMENT AND HARDSCAPE INFORMATION, SEE ARCHITECTURAL DRAWINGS AND CIVIL DRAWINGS.
8. FOR LOAD BEARING NON-LOAD BEARING CMU WALL PLAN DIMENSIONS AS WELL AS OTHER PLAN DIMENSIONS, SEE ARCHITECTURAL DRAWINGS.

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11 , CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER H. CRAIG WINN
H. Craig Winn, P.E.
9-22-2023

SHEET TITLE:
FOUNDATION PLAN

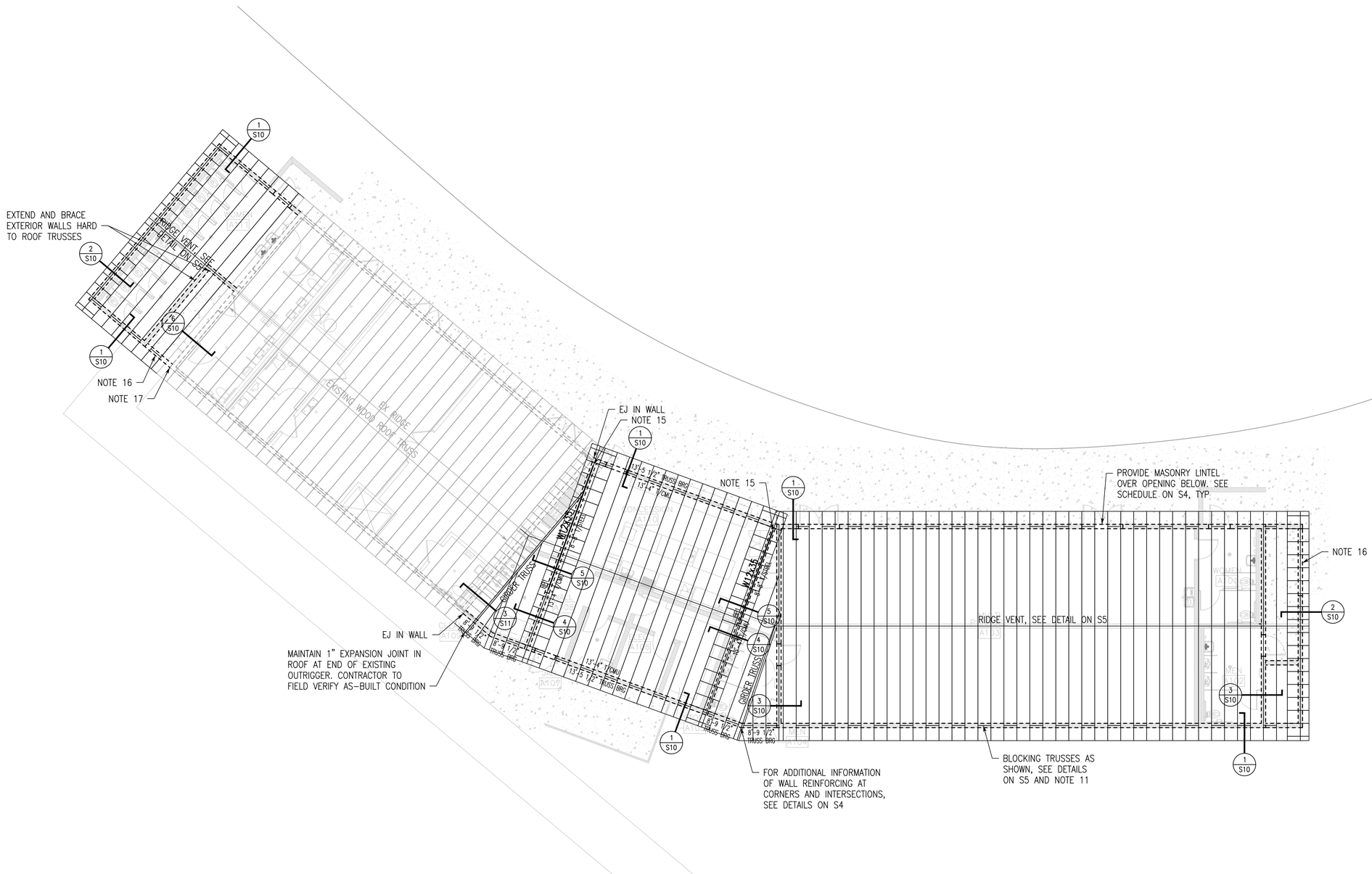
PROJ. MGR.:	HCW
DRAWN:	ABS
DATE: SEPTEMBER 22, 2023	
REVISIONS	

JOB NO. 23-63

SHEET NO:
S6
6 OF 13

0 1" 2"

SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number 23-168



PROJECT NORTH

ROOF FRAMING PLAN

1/8"=1'-0"

1. TOP OF CMU ELEVATION 8'-8" ABOVE FINISHED MAIN FLOOR (MATCH EXISTING), UNLESS NOTED.
2. ROOF SYSTEM: PREFABRICATED WOOD ROOF TRUSSES AT 24". SEE GENERAL NOTES.
3. ROOF SHEATHING: 5/8" PLYWOOD, SEE GENERAL NOTES.
4. TRUSS BEARING ELEVATION 8'-9 1/2" ABOVE FINISHED FLOOR, UNLESS NOTED.
5. TRUSSES BEAR ON ALL WALLS AND BEAMS AS SHOWN.
6. POSITION TRUSSES TO AVOID HVAC UNITS AND DUCTS.
7. FOR DIMENSIONS, SEE FOUNDATION AND ARCHITECTURAL DRAWINGS.
8. DETAILS SHOWN ARE TYPICAL FOR THE ENTIRE BUILDING.
9. PROVIDE DRAG STRUT TRUSSES AS NOTED ON PLAN. TRUSS MANUFACTURER TO DESIGN TRUSS AND CONNECTION TO STRUCTURE FOR A SERVICE LOAD OF 150 PLF (SERVICE) FOR THE LENGTH OF THE TRUSS.
10. TRUSS MANUFACTURER TO PROVIDE ALL MISC STEEL CLOSURE PLATES SUCH AS RIDGE, HIP AND VALLEY PLATES.
11. BLOCKING TRUSS/PLATE SHALL BE LOCATED AS SHOWN ON PLAN. TRUSS/PLATE SHALL BE DESIGNED BY TRUSS MANUFACTURER TO TRANSFER 1500 LBS (SERVICE) OF FORCE DOWN TO TOP OF WALL. SEE DETAIL ON S5. ANCHOR TOP CHORD OF BLOCKING TRUSS TO ROOF DECK AS DIRECTED BY TRUSS MANUFACTURER TO TRANSFER 500 LBS/FT (SERVICE) SHEAR FORCE.
12. HANGER LOCATIONS FOR PIPING LARGER THAN 3" IN DIAMETER MUST BE COORDINATED BY THE GENERAL CONTRACTOR WITH THE TRUSS MANUFACTURER. FOR PIPING WEIGHTS, SEE TYPICAL DETAIL ON S4.
13. BLOCKING TRUSSES/PLATES, BRIDGING, PERMANENT BRACING, MISC STEEL CLOSURE PLATE, ETC. SHALL BE DESIGNED AND INDICATED ON THE TRUSS LAYOUT SHOP DRAWINGS. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTES.
14. CONTRACTOR NOTE: ALL MECHANICAL OPENING SIZES AND LOCATIONS IN LOAD BEARING MASONRY WALLS SHALL BE COORDINATED BY THE CONTRACTOR AND INDICATED ON THE MASONRY WALL REINFORCING SHOP DRAWINGS.
15. POST INSTALL 3/4x12x8 PLATE WITH (4) 3/4"ø TITEN HD SCREWS OR SIMILAR AT 5" GAGE AND MINIMUM 6" EMBEDMENT.
16. PROVIDE 16" DEEP BOND BEAM GROUT FILLED LINTEL BLOCK AND FORM BLOCK WITH 2#6 TOP AND BOTTOM.
17. DRILL AND EPOXY #6 BARS FROM LINTEL INTO EXISTING CMU WITH 7" EMBEDMENT.

LATHAN ARCHITECTS

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H. Craig Winn, P.E.
9-22-2023

SHEET TITLE:
ROOF FRAMING PLAN

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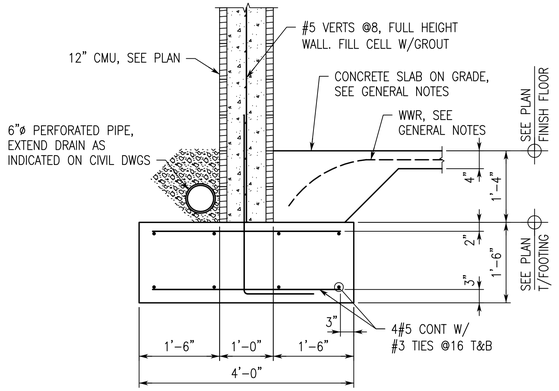
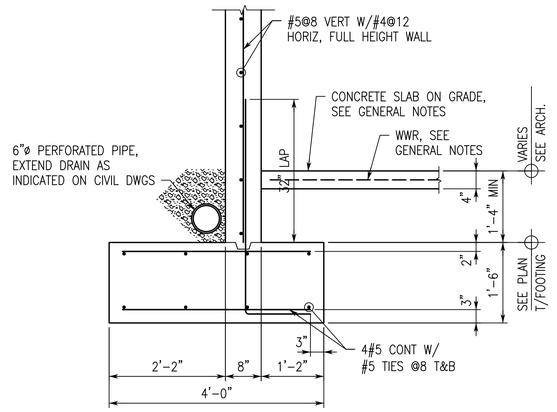
JOB NO. 23-63

SHEET NO:
S7
7 OF 13

0 1" 2"



SECTION 1/S8
3/4"=1'-0"



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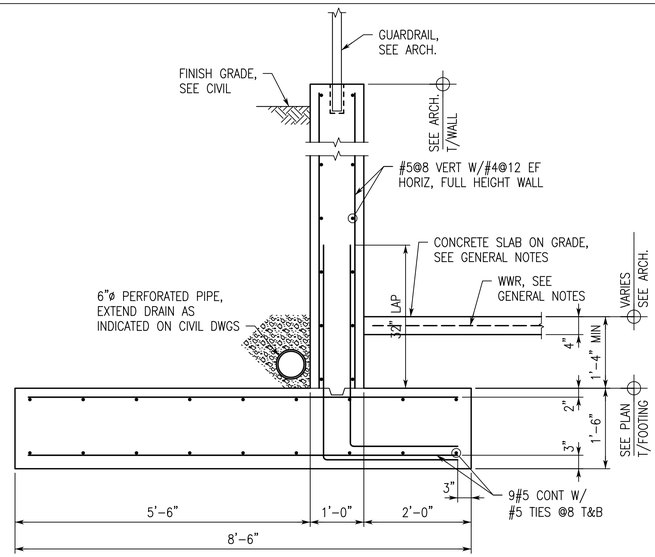
3/4"=1'-0"



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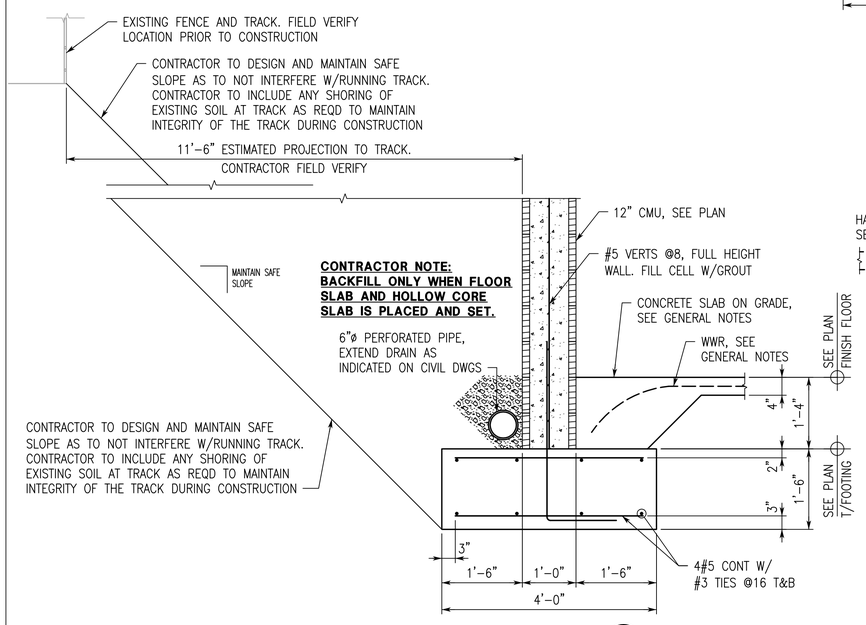

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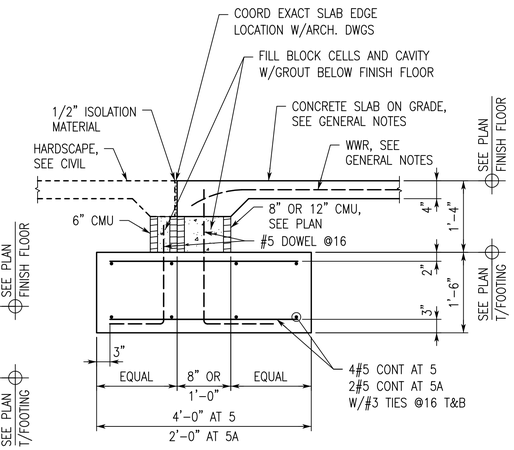
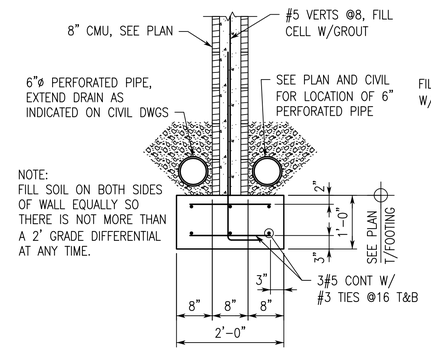
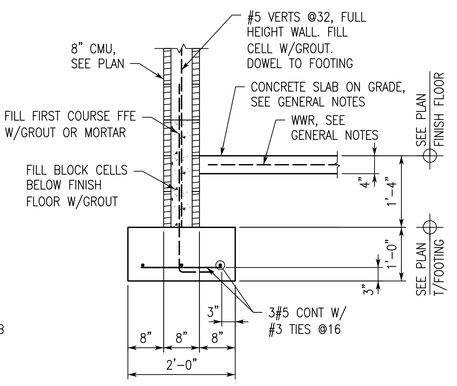


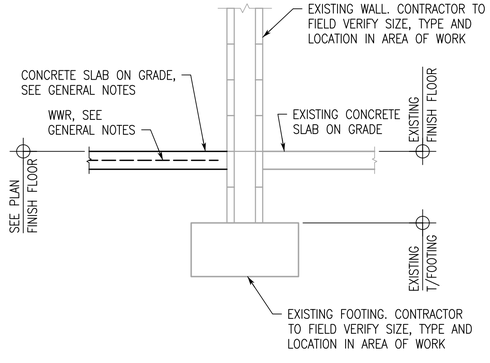
SECTION 5/S8 5A/S8
3/4"=1'-0"



SECTION 6/S8
3/4"=1'-0"



SECTION 7/S8
3/4"=1'-0"



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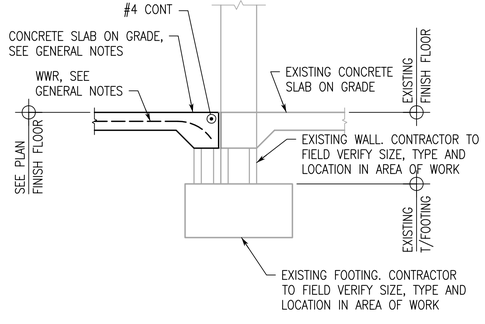
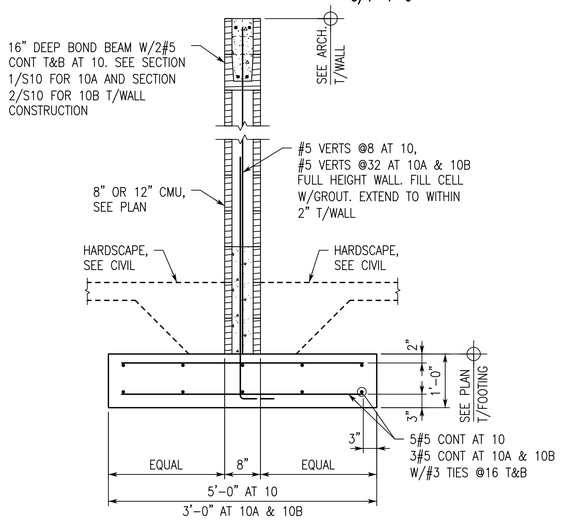
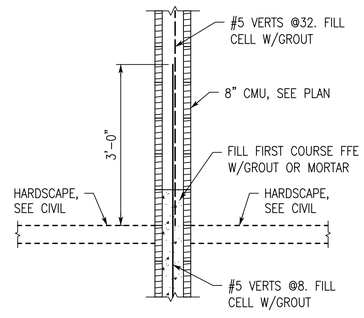


SECTION 9/S8
3/4"=1'-0"



SECTION 10/S8 10A/S8 10B/S8
3/4"=1'-0"



SECTION 11/S8
3/4"=1'-0"

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Job Number 23-168

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
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10510 COUNTY ROAD 11 , CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER H. CRAIG WINN P.E.
9-22-2023

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S8
8 OF 13
0 1" 2"

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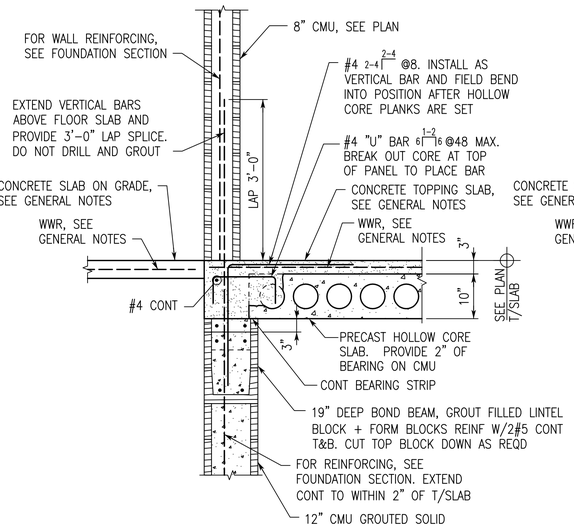

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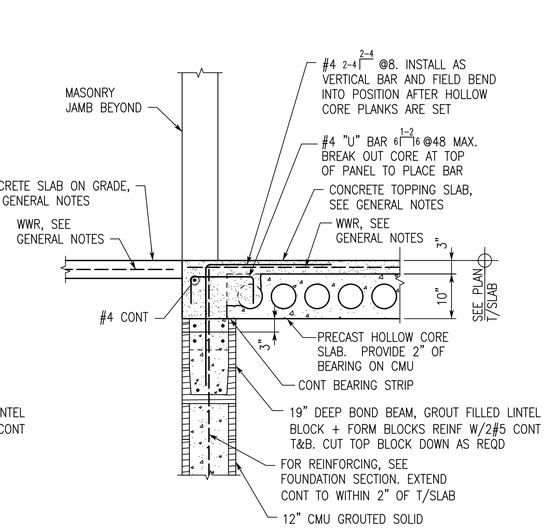
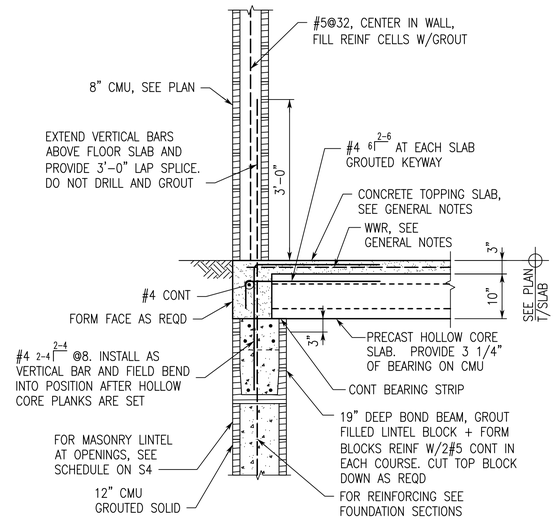


SECTION 2/S9
3/4"=1'-0"



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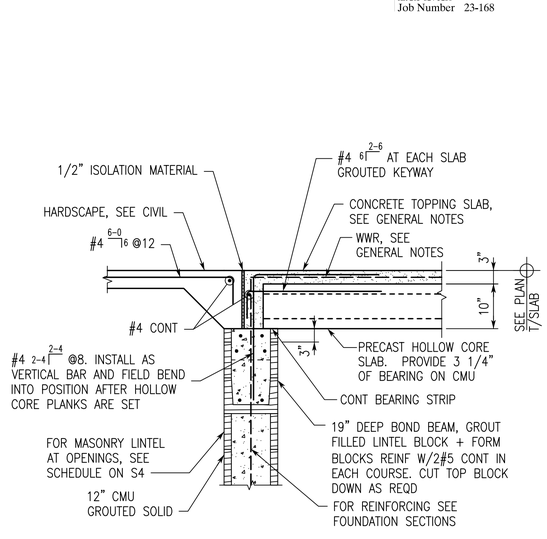

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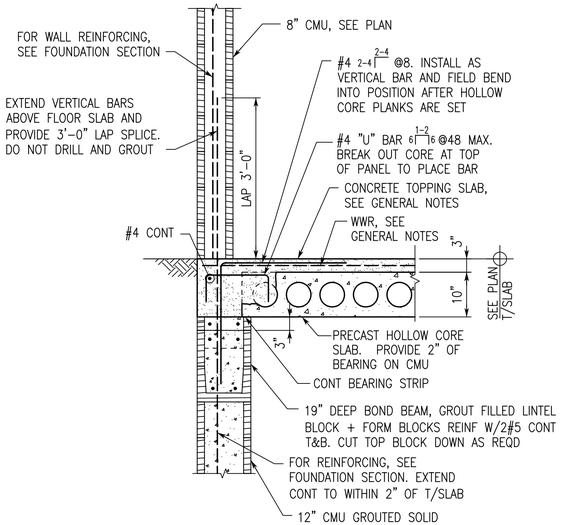

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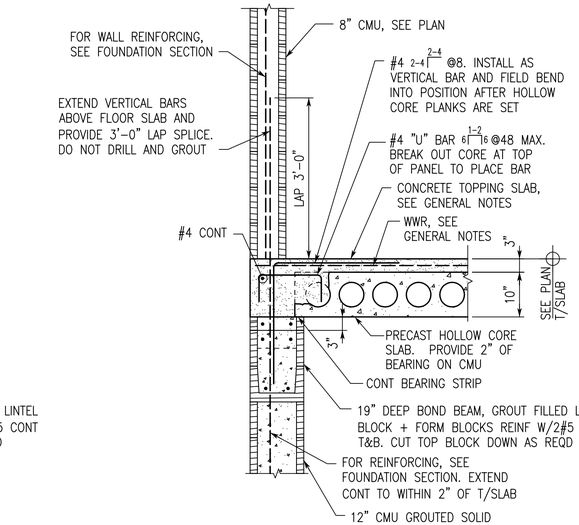
3/4"=1'-0"



SECTION 6/S9
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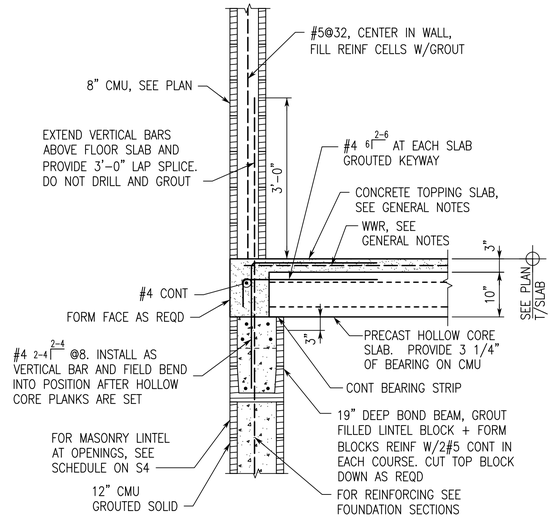

SECTION 7/S9
3/4"=1'-0"

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
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10510 COUNTY ROAD 11 . CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

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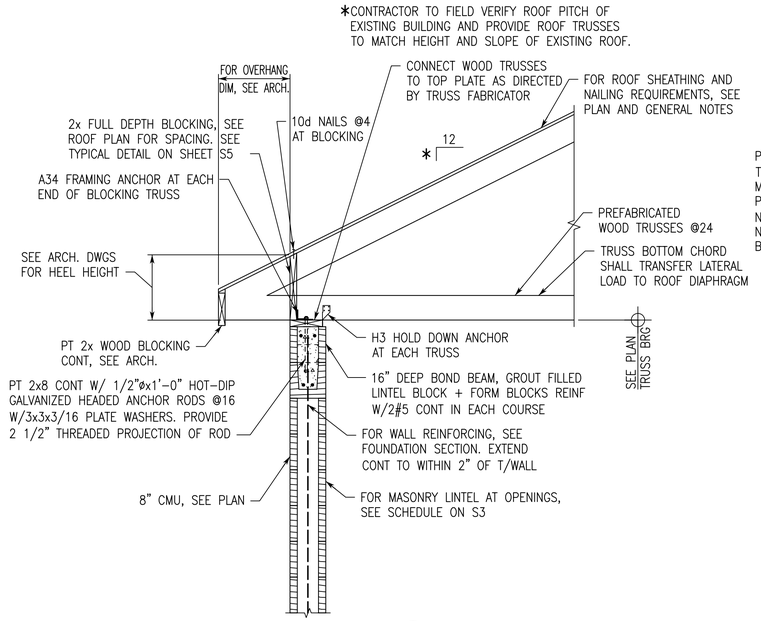
SHEET NO:
S9
9 OF 13

0 1" 2"



SECTION 1/S10
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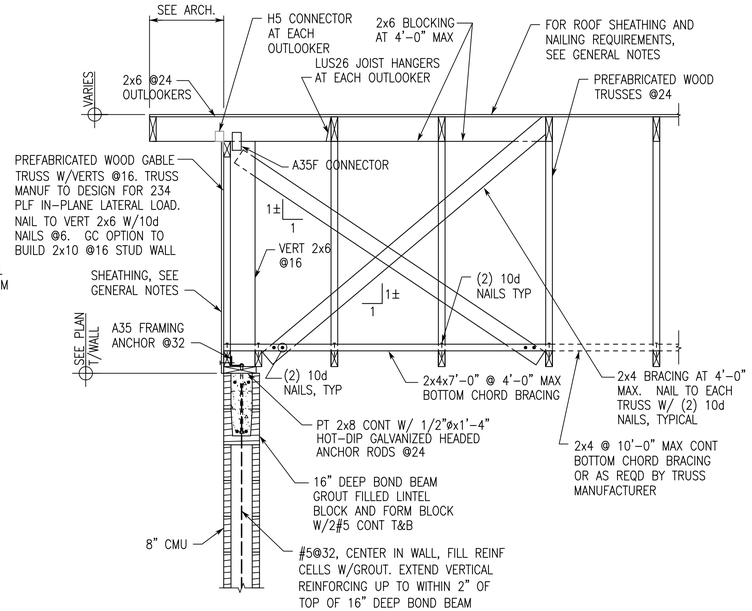

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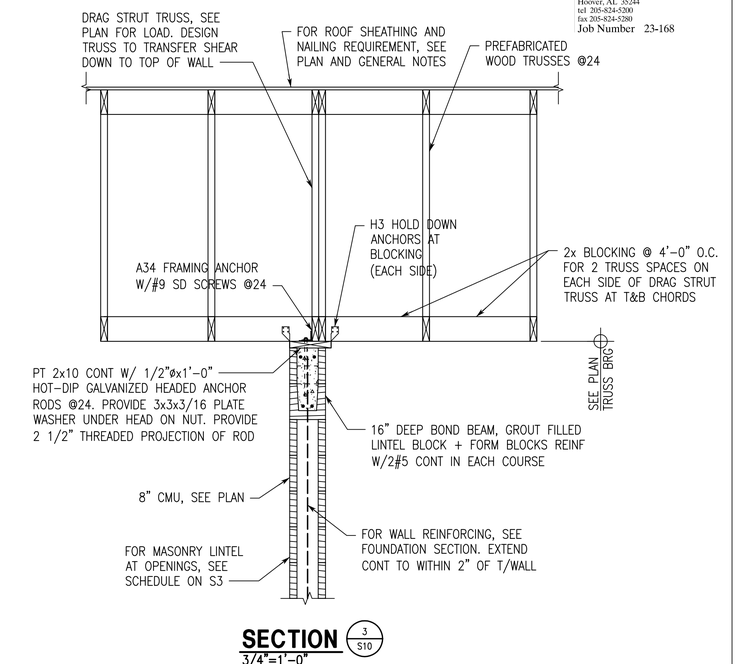

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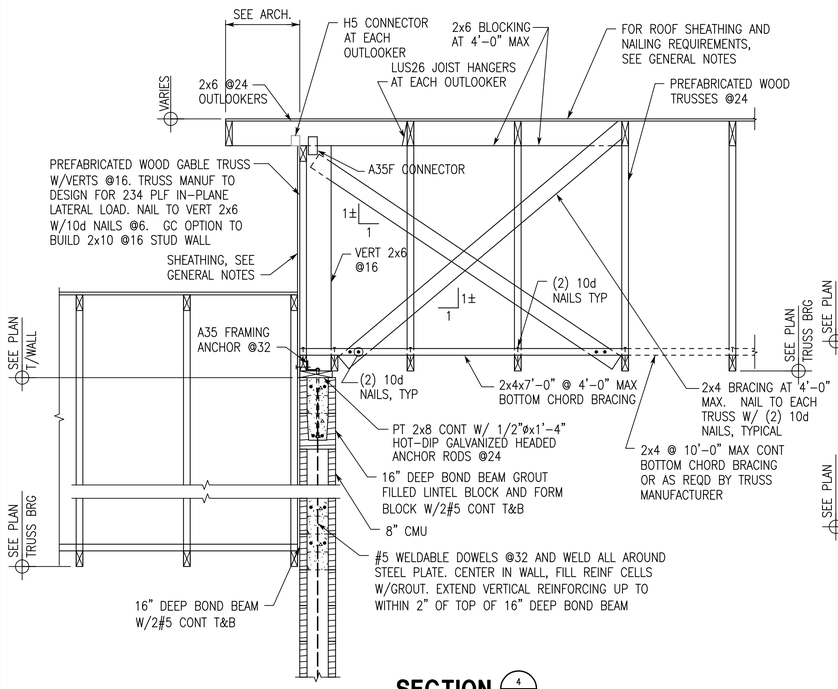

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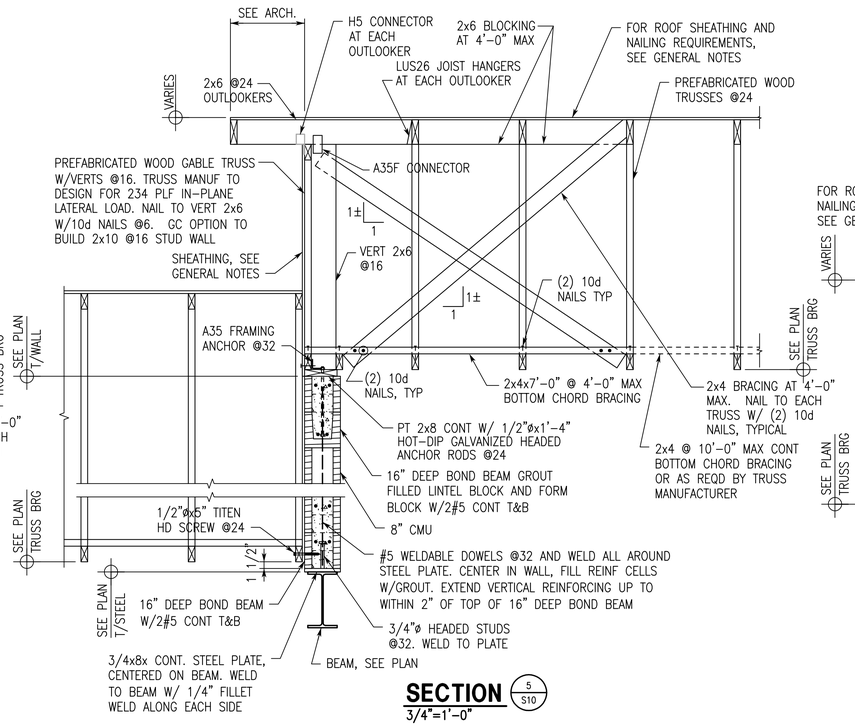

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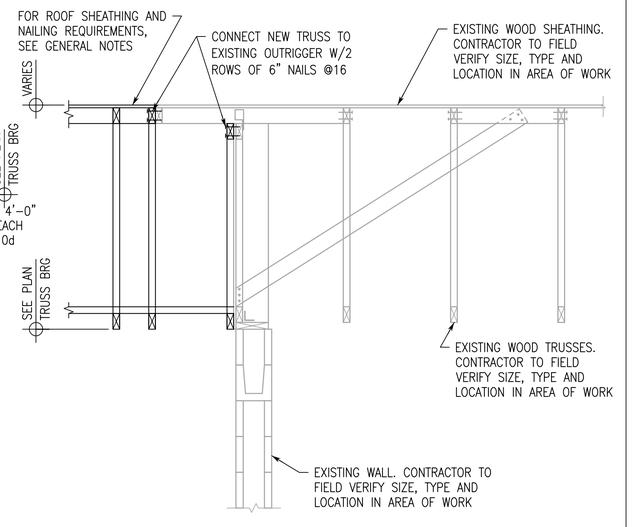

SECTION 6/S10
3/4"=1'-0"

SDG
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LATHAN
ARCHITECTS

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10510 COUNTY ROAD 11 . CHELSEA, ALABAMA 35043
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S10
10 OF 13

0 1" 2"

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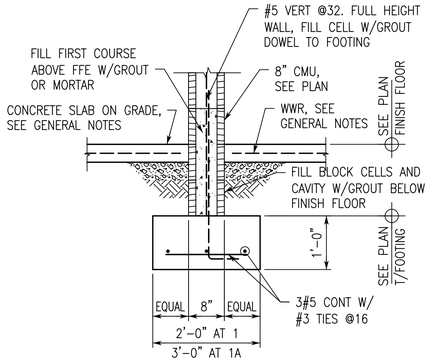
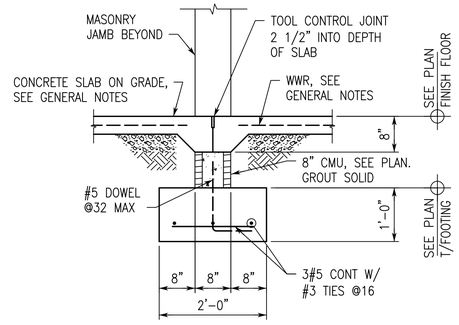


SECTION 1/S11 2/S11
3/4"=1'-0"



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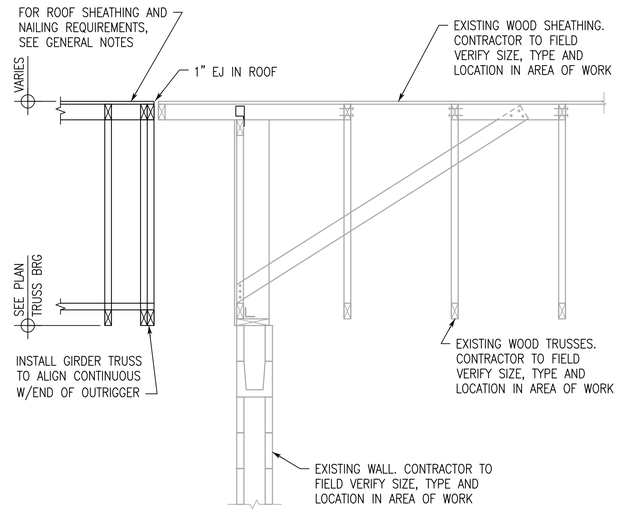

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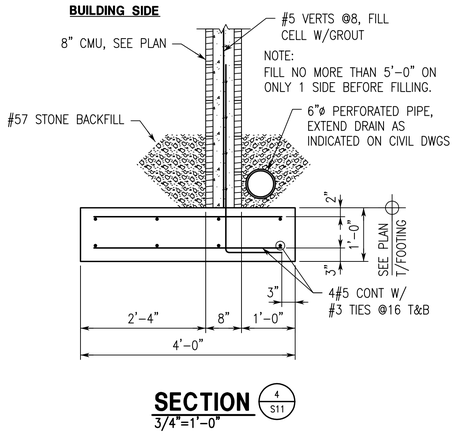

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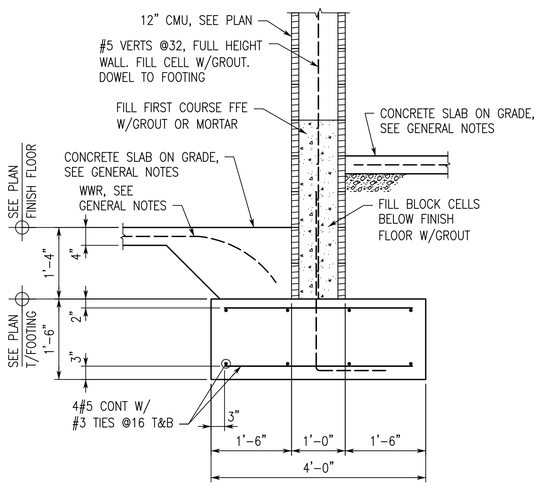
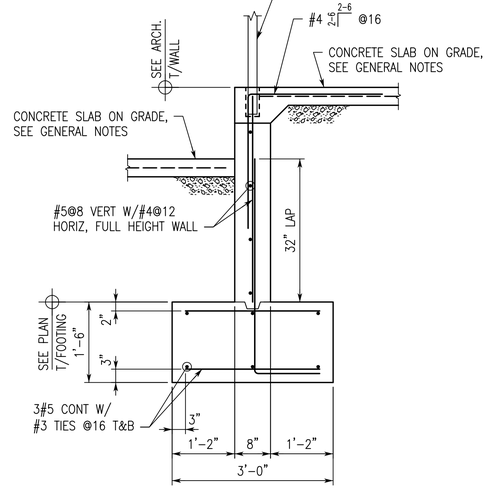
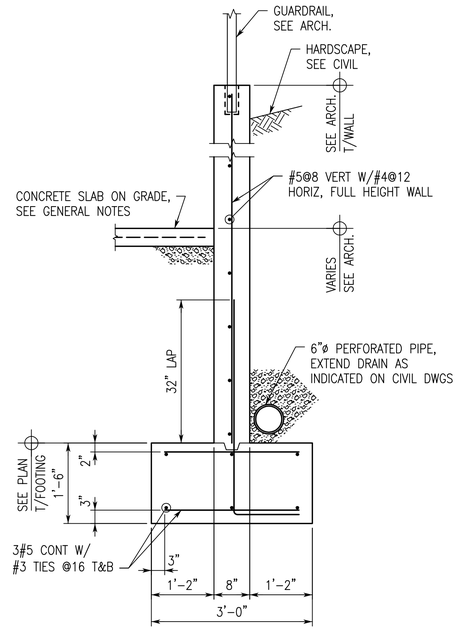


SECTION 5/S8
3/4"=1'-0"



SECTION 6/S8
3/4"=1'-0"



SECTION 7/S8
3/4"=1'-0"

LATHAN ARCHITECTS

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11 OF 13
0 1" 2"

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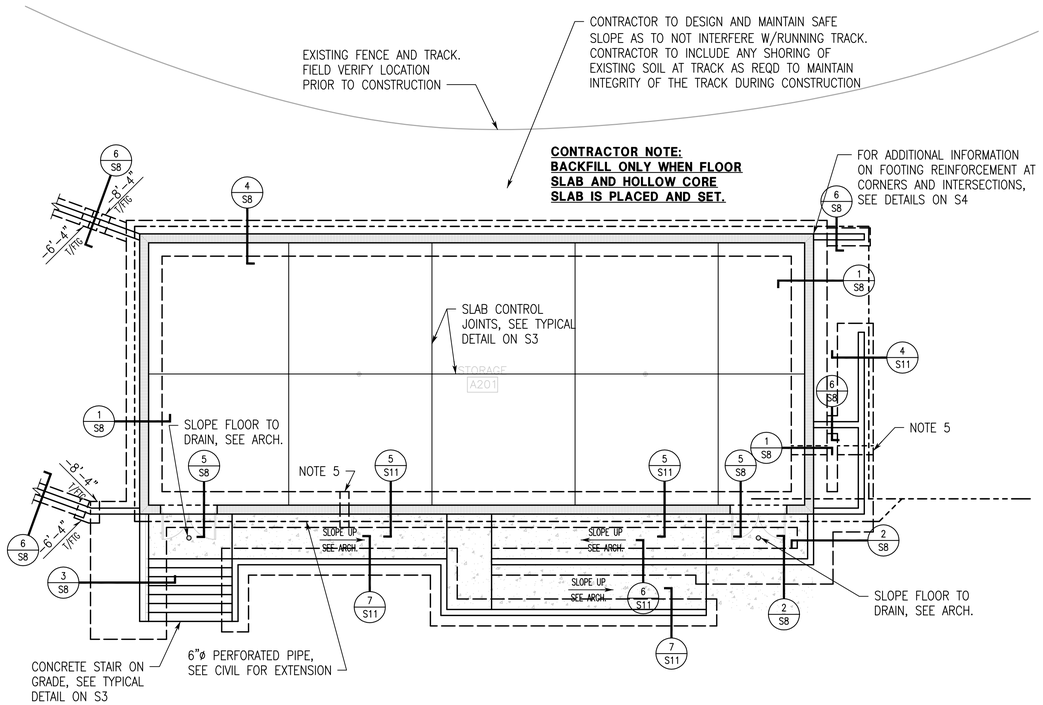

PROJECT NORTH

LOWER FOUNDATION PLAN - ALTERNATE

1/8"=1'-0"

1. FINISH FLOOR (TOP OF SLAB) ELEVATION -9'-0" BELOW MAIN LEVEL FINISH FLOOR, UNLESS NOTED.
2. TOP OF FOOTING ELEVATION -10'-4" BELOW MAIN LEVEL FINISH FLOOR, UNLESS NOTED.
3. FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS.
4. GENERAL CONTRACTOR SHALL COORDINATE TILE JOINT LOCATION WITH CONTROL JOINTS.
5. 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 S3.
6. FOOTING WIDTHS INDICATED ON PLAN MAY OR MAY NOT BE TO SCALE. COORDINATE WITH SECTION CUTS FOR FOOTING WIDTHS AND ADDITIONAL INFORMATION.
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8. FOR LOAD BEARING NON-LOAD BEARING CMU WALL PLAN DIMENSIONS AS WELL AS OTHER PLAN DIMENSIONS, SEE ARCHITECTURAL DRAWINGS.

LATHAN ARCHITECTS

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ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER CRAIG WINN
H. Craig Winn, P.E.
9-22-2023

SHEET TITLE:
LOWER FOUNDATION PLAN - ALTERNATE

PROJ. MGR.:	HCW
DRAWN:	ABS
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SHEET NO:
S12
12 OF 13

0 1" 2"

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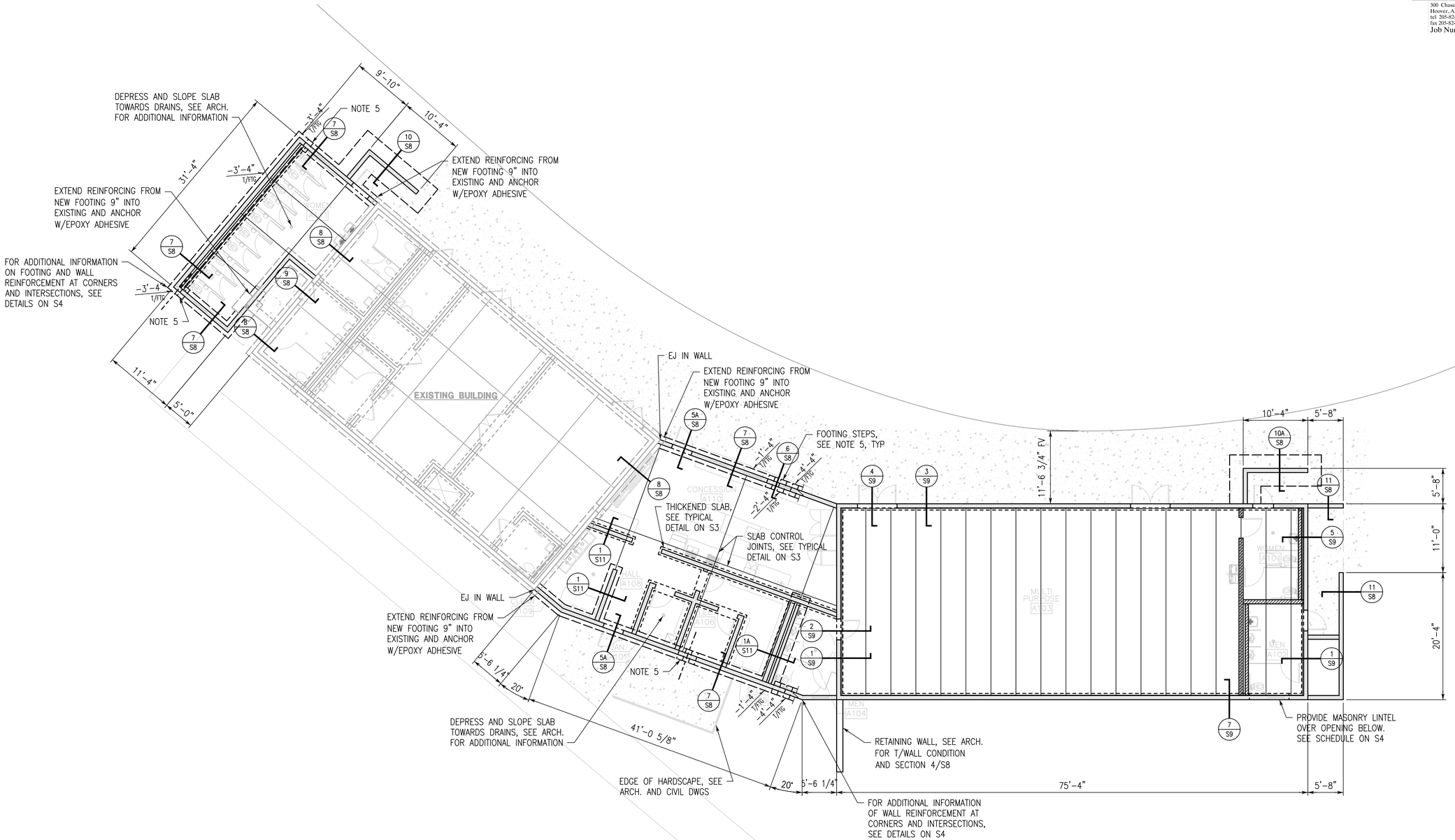


PROJECT NORTH

MAIN LEVEL FOUNDATION PLAN - ALTERNATE

1/8"=1'-0"

1. FINISH FLOOR (TOP OF SLAB) ELEVATION MATCH EXISTING, UNLESS NOTED.
2. TOP OF FOOTING ELEVATION MATCH EXISTING, UNLESS NOTED.
3. FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS.
4. GENERAL CONTRACTOR SHALL COORDINATE TILE JOINT LOCATION WITH CONTROL JOINTS.
5. 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 S3.
6. FOOTING WIDTHS INDICATED ON PLAN MAY OR MAY NOT BE TO SCALE. COORDINATE WITH SECTION CUTS FOR FOOTING WIDTHS AND ADDITIONAL INFORMATION.
7. FOR PAVEMENT AND HARDSCAPE INFORMATION, SEE ARCHITECTURAL DRAWINGS AND CIVIL DRAWINGS.
8. FOR LOAD BEARING NON-LOAD BEARING CMU WALL PLAN DIMENSIONS AS WELL AS OTHER PLAN DIMENSIONS, SEE ARCHITECTURAL DRAWINGS.

PROJECT NORTH

MAIN LEVEL FRAMING PLAN - ALTERNATE

1/8"=1'-0"

1. FINISH FLOOR (TOP OF SLAB) ELEVATION MATCH EXISTING, UNLESS NOTED.
2. FLOOR SYSTEM: 10" 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 AND LIVE LOADS AS INDICATED IN GENERAL NOTES AND TYPICAL DETAILS, IN ADDITION TO 20 PSF COLLATERAL LOAD AND SELF WEIGHT.
4. CUT OR BREAK CORES OF HOLLOW CORE SLABS ONLY AS REQUIRED TO PLACE REINFORCING.
5. PROVIDE MASONRY LINTELS AT ALL OPENINGS, SEE SCHEDULES ON S3.
6. ▨ INDICATED MAIN LEVEL PARTITION WALLS TO BE SUPPORTED BY HOLLOW CORE SLABS. PRECAST MANUFACTURER TO DESIGN HOLLOW CORE SLABS TO SUPPORT THE DEAD LOAD PARTITION WALL WEIGHT WHERE INDICATED (360 PLF AT 6" CMU AND 470 PLF AT 8" CMU). CONTRACTOR NOTE: CMU PARTITION WALLS TO BE REINFORCED WITH #4@72. DOWEL INTO TOPING SLAB 2 1/2".
7. SLAB ON GRADE TO BE PLACED PRIOR TO ERECTION OF MAIN LEVEL HOLLOW CORE SLAB PANELS.
8. CONTRACTOR NOTE: MODIFY BLOCK AS REQUIRED TO INSTALL REINFORCING AS NOTED/SHOWN.

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11 , CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER H. CRAIG WINN
H. Craig Winn P.E.
9-22-2023

SHEET TITLE:
MAIN LEVEL FOUNDATION AND FRAMING PLAN - ALTERNATE

PROJ. MGR.:	HCW
DRAWN:	ABS
DATE: SEPTEMBER 22, 2023	
REVISIONS	

JOB NO. 23-63

SHEET NO:
S13
13 OF 13

0 1" 2"

GENERAL NOTES

1. LOCATIONS OF UTILITIES SHOWN ON PLANS ARE APPROXIMATE. VERIFY WITH LOCAL UTILITY PRIOR TO BIDDING.
2. CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZE, AND ELEVATION OF ALL EXISTING SERVICES PRIOR TO INSTALLING ANY NEW PIPE.
3. ALL OUTSIDE CLEANOUTS SHALL BE BROUGHT TO GRADE AND EMBEDDED IN 18"X18"X6" THICK CONCRETE PAD. (J.R. SMITH 4258 OR EQUAL.)
4. WHEREVER DISSIMILAR METALS ARE CONNECTED ON WATER LINES, A DIELECTRIC UNION SHALL BE USED.
5. ALL HORIZONTAL WATER AND VENT PIPING SHALL BE RUN ABOVE CEILING ON PLAN WHERE SHOWN UNLESS OTHERWISE NOTED.
6. ALL HORIZONTAL SANITARY PIPING IS RUN BELOW FLOOR ON PLAN WHERE SHOWN UNLESS OTHERWISE NOTED.
7. ALL WATER PIPING BELOW SLAB ON GRADE SHALL BE BENT UP AT ENDS SO THAT NO JOINTS OCCUR BELOW FLOOR.
8. ALL WALL HYDRANTS AND HOSE BIBBS SHALL BE MOUNTED 24" ABOVE FINISH GRADE OF FINISH FLOOR UNLESS OTHERWISE NOTED.
9. ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF THE EXTERIOR WALL INSULATION.
10. NO VENT THRU ROOF IS TO BE LOCATED WITHIN 10 FEET OF ANY BUILDING AIR INTAKES, PER CODE. COORDINATE WITH MECHANICAL AND GENERAL CONTRACTORS.
11. DOMESTIC WATER PIPING AND FIRE PROTECTION PIPING LOCATED ABOVE THE CEILING, SHALL BE INSTALLED BELOW CEILING INSULATION.
12. CONTRACTOR SHALL COORDINATE FLOOR DRAIN LOCATIONS WITH MECHANICAL EQUIPMENT PRIOR TO INSTALLATION.
13. CONTRACTOR SHALL PROVIDE SHOCK ARRESTORS ON ALL BRANCH LINES.
14. CONTRACTOR SHALL COORDINATE ALL SINKS WITH CASEWORK PRIOR TO ORDERING SINKS.
15. DOMESTIC WATER PIPING SHALL NOT BE INSTALLED IN EXTERIOR WALLS.
16. PROVIDE DISINFECTION OF WATER PIPING SYSTEM WITH CHLORINE SOLUTION AS PER CODE.
17. INSTALLATION OF BACKFLOW PREVENTER SHALL COMPLY WITH CURRENT INTERNATIONAL BUILDING CODE AND CURRENT INTERNATIONAL PLUMBING CODE.
18. ALL OVERHEAD WATER PIPING TO BE RUN BELOW INSULATION AT BOTTOM OF TRUSSES FOR FREEZE PROTECTION.
19. ALL WALL HYDRANTS TO BE FREEZE PROOF AND TO HAVE VACUUM BREAKERS.
20. INSULATION ON ALL PIPING SHALL MEET SMOKE/ FLAME RATING OF 25 & 50.
21. THE LOCATION OF LAVATORIES AND WATER CLOSETS RELATIVE TO THE FINISHED WALL IS CRITICAL. REFER TO ARCHITECTURAL AND THE SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL WATER CLOSETS TO BE 18" FROM FINISH WALL TO CENTER OF WATER CLOSET.
22. WATER HAMMER ARRESTORS ARE REQUIRED TO PROTECT WATER PIPING SYSTEMS WHERE QUICK-CLOSING VALVES ARE UTILIZED. WATER HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010.
23. THESE DRAWINGS NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE PROJECT, CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
24. COORDINATE PLUMBING PIPING WITH STRUCTURAL, PLUMBING, HVAC, AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ANY ADDITIONAL COST TO THE PROJECT.
25. COORDINATE ALL PLUMBING IN SLAB WITH BUILDING FOOTINGS.
26. NO PIPING TO BE RUN ABOVE ELECTRICAL PANELS. MAINTAIN ALL REQUIRED CLEARANCES.
27. CONTRACTOR SHALL VISIT JOB SITE AND VERIFY EXISTING CONDITIONS BEFORE SUBMITTING A PRICE, ORDERING MATERIALS OR PERFORMING ANY WORK. NOTIFY THE ARCHITECT OF ANY DEVIATION FROM PLUMBING PLAN.
28. SUPPORT PIPE AS REQUIRED BY THE CURRENT INTERNATIONAL PLUMBING CODE.
29. ALL FOOTINGS AT PLUMBING CHASE WALLS SHALL BE MIN 24" BELOW FINISHED GRADE TO COORDINATE WITH WASTE PIPING IN SLAB.
30. FIRESTOP ALL RATED WALL AND FLOOR PENETRATIONS. SEE ARCHITECTURAL DRAWINGS FOR RATED WALL AND FLOOR LOCATIONS.
31. OFFSET ALL VTR'S TO BACKSIDE OF ROOF RIDGE.
32. DO NOT BEGIN WORK UNTIL ELEVATION OF FINAL CONNECTION POINT IS VERIFIED AND GRADING OF ENTIRE SYSTEM CAN BE DETERMINED (EVEN IF FINAL CONNECTION IS SPECIFIED UNDER ANOTHER SECTION).

PLUMBING LEGEND

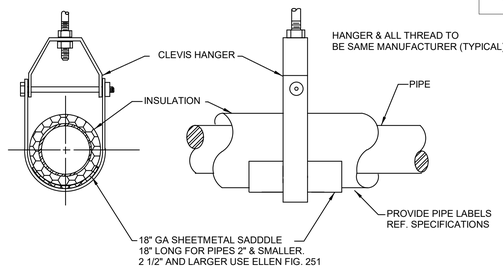
SOIL OR WASTE LINE	P-#	PLUMBING FIXTURE NUMBER
VENT LINE	R1	RISER DIAGRAM NUMBER
COLD WATER LINE	AFF	ABOVE FINISH FLOOR
HOT WATER LINE	CO	CLEAN OUT
HOT WATER RETURN LINE	ABV	ABOVE
BALL VALVE	WS	WASTE STACK
UNION	BFF	BELOW FINISH FLOOR
PIPE TURNING UP	VSTR	VENT STACK THRU ROOF
PIPE TURNING DOWN	TMV	THERMOSTATIC MIXING VALVE
PRESSURE REDUCING VALVE		

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	WASTE	CW	HW	REMARKS
FD	FLOOR DRAIN	SEE PLAN	-	-	J.R. SMITH #2010 WITH 6" ROUND NICKEL BRONZE GRATE. PROVIDE WITH J.R. SMITH TRAP INSERT.
FS-1	FLOOR SINK	SEE PLAN	-	-	J.R. SMITH #3100, 8" SQUARE, PORCELAIN ENAMELED CAST IRON INTERIOR WITH 3/4 CAST IRON PORCELAIN ENAMELED GRATE AND DOME BOTTOM STRAINERS. PROVIDE WITH J.R. SMITH TRAP INSERT.
MFD	MECHANICAL FLOOR DRAIN	SEE PLAN	-	-	J.R. SMITH #2242 WITH SEDIMENT BUCKET. PROVIDE WITH J.R. SMITH TRAP INSERT.
P-1	WATER CLOSET - ADA COMPLIANT	4"	1"	-	FLOOR MOUNTED - KOHLER K-96057-SS-0 COMPLETE SLOAN #111 FLUSH VALVE WITH YJ BRACKET AND CHURCH "DURA GUARD" MODEL # 2155 SSC SEAT.
P-2	WATER CLOSET	4"	1"	-	FLOOR MOUNTED - KOHLER K-96053-SS-0 COMPLETE SLOAN #111 FLUSH VALVE WITH YJ BRACKET AND CHURCH "DURA GUARD" MODEL #2155 SSC SEAT.
P-3	LAVATORY - ADA COMPLIANT	1 1/4"	1/2"	1/2"	WALL HUNG - KOHLER K-2032 (20" X 18") COMPLETE, SYMMONS S-20-0 FAUCET, K7715 OUTLET WITH TAILPIECE, J.R. SMITH #700-M31-Z FIXTURE SUPPORT, MCGUIRE #165 SUPPLIES WITH STOPS AND MCGUIRE #8872 P-TRAP. INSULATE P-TRAP, STOPS AND SUPPLIES WITH "PRO-WRAP" BY MCGUIRE. MOUNT WITH RIM MAXIMUM 34" AFF. PROVIDE LAWLER 570 THERMOSTATIC MIXING VALVE MOUNTED BELOW LAVATORY. RUN 100° F WATER TO FAUCET. MUST MEET A.D.A. GUIDELINES.
P-4	LAVATORY	1 1/4"	1/2"	1/2"	WALL HUNG - KOHLER K-2032 (20" X 18") COMPLETE, SYMMONS S-20-0 FAUCET, K7715 OUTLET WITH TAILPIECE, J.R. SMITH #700-M31-Z FIXTURE SUPPORT, MCGUIRE #165 SUPPLIES WITH STOPS AND MCGUIRE #8872 P-TRAP. INSULATE P-TRAP, STOPS AND SUPPLIES WITH "PRO-WRAP" BY MCGUIRE. MOUNT WITH RIM MAXIMUM 34" AFF. PROVIDE LAWLER 570 THERMOSTATIC MIXING VALVE MOUNTED BELOW LAVATORY. RUN 100° F WATER TO FAUCET.
P-5	URINAL - ADA COMPLIANT	3"	1"	-	WALL MOUNTED-KOHLER K-5016-ET COMPLETE, K-9183 STAINLESS STEEL STRAINER, J.R. SMITH #623 FIXTURE SUPPORT, AND SLOAN #186 FLUSH VALVE WITH YJ BRACKET. SET LIP 17" AFF.
P-6	URINAL	3"	1"	-	WALL MOUNTED-KOHLER K-5016-ET COMPLETE, K-9183 STAINLESS STEEL STRAINER, J.R. SMITH #623 FIXTURE SUPPORT, AND SLOAN #186 FLUSH VALVE WITH YJ BRACKET.
P-7	WATER COOLER - ADA COMPLIANT	1 1/2"	1/2"	-	ELKAY VRCTLSCFR8SC BI-LEVEL, STAINLESS STEEL CABINET, WITH WATERWAYS MANUFACTURED OF 100% LEAD FREE MATERIAL, J.R. SMITH #834 FIXTURE SUPPORT, BALL VALVE STOP WITH SUPPLY, SAFETY-GUARD BUBBLER. MCGUIRE #8872 P-TRAP. FULLY INSULATE P-TRAP. MOUNT WITH LOWER SPOUT OUTLET 36" ABOVE FINISH FLOOR. PROVIDE COLOR CHART FOR ARCHITECT COLOR SELECTION.
P-8	MOP SINK	3"	1/2"	1/2"	STERN WILLIAMS #SBC-1700 (24" X 24") COMPLETE, T-35 HOSE WITH WALL HOOK, STAINLESS STEEL BACKSPLASH AND CHICAGO FAUCET #897 FAUCET.
P-9	WALL HYDRANT	-	3/4"	-	J.R. SMITH #5509-QT, WITH INTEGRAL BACKFLOW PREVENTER, LATCHING COVER, FREEZE-PROOF AND OF PROPER LENGTH FOR WALL IN WHICH INSTALLED, ALL BRONZE BOX. VALVE SEAT MUST BE ON BUILDING SIDE OF EXTERIOR WALL INSULATION. INSTALL WITH CENTER LINE 24" ABOVE FINISH GRADE. PROVIDE OWNER WITH ONE (1) LOOSE KEY FOR EACH WALL HYDRANT.
P-10	HOSE BIBB	-	3/4"	-	Z1350-EZ-VB ZURN NARROW WALL HYDRANT WITH MOUNTING BRACKETS.
P-11	THREE-POT SINK	FS-1	1/2"	1/2"	SPEC THREE POT SINK: ADVANCE TABCO T9-3-54, K-105, K-5 DRAIN, MCGUIRE #165 STOPS AND SUPPLIES. VERIFY LENGTH OF SINK MATCHES ARCH. PIPE WASTE FROM EACH COMPARTMENT INDIVIDUALLY TO FLOOR SINK BELOW USING COPPER AND SECURLEY ANCHORED IN THE HORIZONTAL.
P-12	ICE MACHINE	-	1/2"	-	FURNISHED AND INSTALLED UNDER ANOTHER SECTION, ROUGH AND CONNECT COMPLETE, PROVIDE BALL VALVE STOP ON SUPPLY AND PIPE WASTE(S) TO FLOOR DRAIN. PROVIDE WATTS LF9D ON COLD WATER SUPPLY IF REQUIRED BY LOCAL CODES. PIPE RELIEF FULL SIZE TO FS.

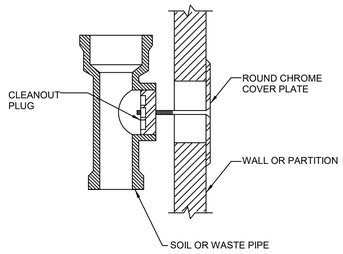
WATER HEATER SCHEDULE

MARK	FIXTURE	ELEC INFO.	REMARKS
CP-1	CIRCULATION PUMP	1/12 HP, 115/1/60	ARMSTRONG COMPASS. PROVIDE WITH TIMER AND AQUASTAT EQUAL TO HONEYWELL L6006A.
ET-1	EXPANSION TANK	-	AMTROL THERM - X-TROL #ST-12 EXPANSION TANK, PRE-CHARGED, WELDED STEEL CONSTRUCTION. ISOLATION BETWEEN WATER AND AIR SHALL BE BY A BUTYL DIAPHRAM.
WH-1	ELECTRIC WATER HEATER	208V; 3 PH; 15KW	LOCHINVAR HSX15119 119 GALLON STORAGE, 60 GALLON RECOVERY AT 100°F RISE. NEW P&T RELIEF VALVE. SET OUTLET TEMPERATURE AT 140°F. INSTALL AS DETAILED ON DRAWINGS. VERIFY VOLTAGE WITH ELECTRICAL SECTION.



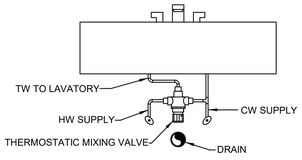
SUSPENDED PIPE SUPPORT

NO SCALE



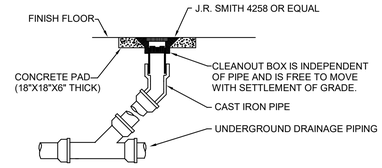
WALL CLEANOUT

NO SCALE



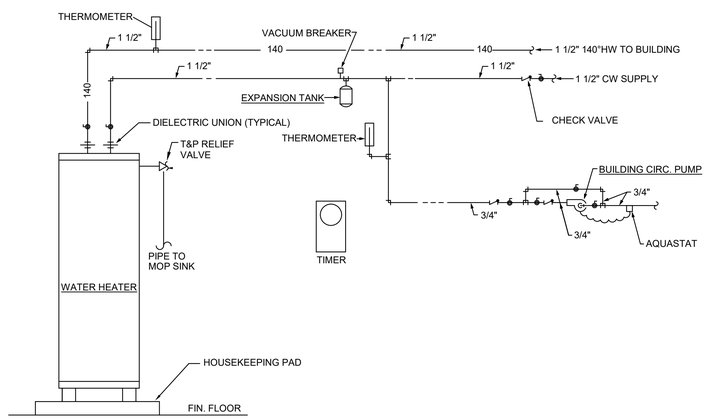
DETAIL OF TMV BELOW LAVATORY

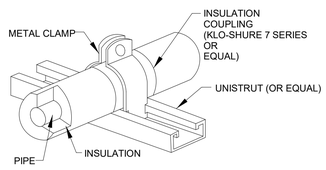
NO SCALE



DETAIL OF CLEANOUT TO GRADE

NO SCALE



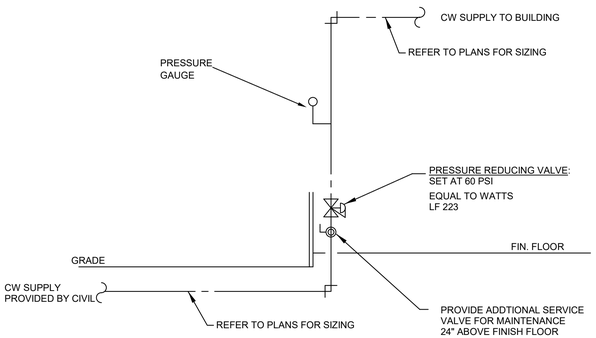


NOTES:

1. APPLICATION: FOR STRUT MOUNTED, 4 INCH AND SMALLER, COFFEE PIPE WITH FOAMED PLASTIC (ARMAFLEX) OR FIBERGLASS INSULATION.
2. ALLOWED FOR HORIZONTAL OR VERTICAL INSTALLATION.
3. FOR COLD PIPE APPLICATION, APPLY ADHESIVE TO END OF FOAMED PLASTIC INSULATION PRIOR TO INSERTING INTO COUPLING.

STRUT-MOUNTED PIPING SUPPORT INSULATION COUPLING DETAIL

NO SCALE



DETAIL OF WATER ENTRY

NO SCALE

DEMOLITION GENERAL NOTES

1. ALL REMOVED FIXTURES SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE DELIVERED TO THE OWNERS WAREHOUSE BY THIS CONTRACTOR.
2. IF THE OWNER DECIDES NOT TO RETAIN FIXTURES OR EQUIPMENT REMOVED, THE FIXTURES SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
3. ONCE DEMOLITION IS COMPLETE, ALL PIPING THAT IS NOT IN USE OR THAT IS NOT TO BE USED UNDER THE RENOVATION PORTION SHOULD HAVE BEEN REMOVED.

DEMOLITION KEY NOTES

- (A) EXISTING WATER CLOSET TO REMAIN.
- (B) EXISTING LAVATORY TO REMAIN.
- (C) EXISTING URINAL TO REMAIN.
- (D) EXISTING FLOOR DRAIN TO REMAIN.
- (E) EXISTING WATER COOLER TO REMAIN.
- (F) EXISTING MOP SINK TO REMAIN.
- (G) EXISTING WATER HEATER TO REMAIN.

1 PLUMBING - DEMOLITION FLOOR PLAN

1/8" = 1'-0"

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com
Project Number :
50167381

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL
510 COUNTY ROAD 11, CHELSEA ALABAMA 35080
SHELBY COUNTY BOARD OF EDUCATION

SHEET TITLE:
PLUMBING - SCHEDULE, NOTES, DETAILS, LEGEND, & DEMOLITION FLOOR PLAN

PROJ. MGR.:	SMC
DRAWN:	ADH
DATE:	09/22/23
REVISIONS	

JOB NO. 23-63

SHEET NO:
P1
1 OF 3

Dewberry
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LATHAN ARCHITECTS

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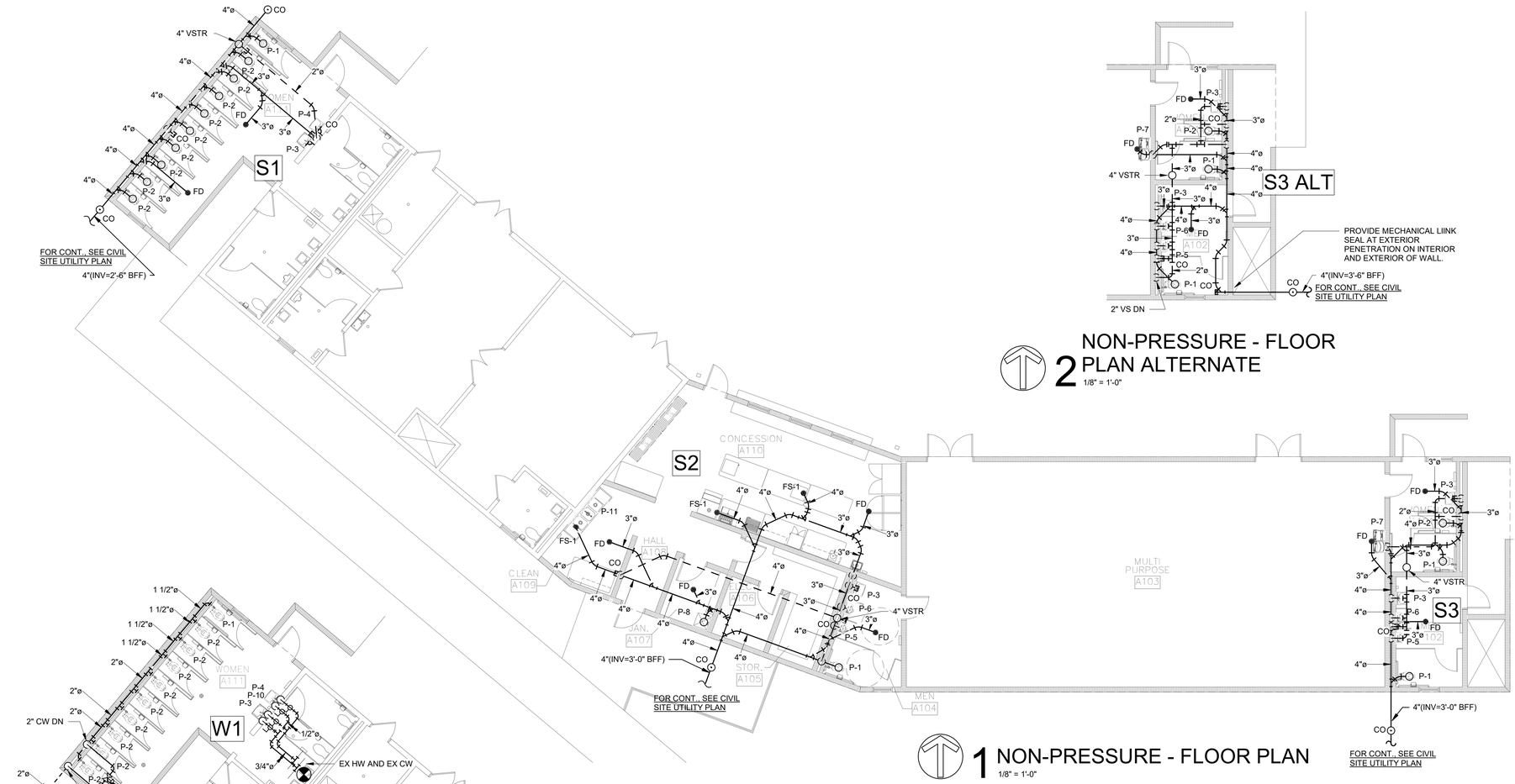
SHELBY COUNTY BOARD OF EDUCATION



2 NON-PRESSURE - FLOOR PLAN ALTERNATE
1/8" = 1'-0"

1 NON-PRESSURE - FLOOR PLAN
1/8" = 1'-0"

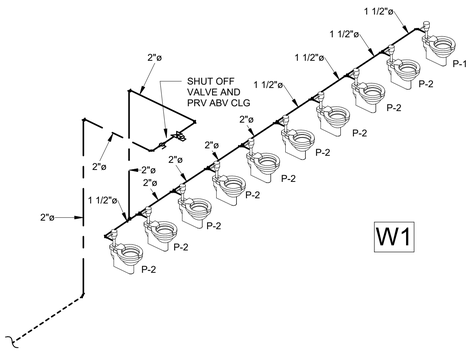
3 PRESSURE - FLOOR PLAN
1/8" = 1'-0"

SHEET TITLE:
PLUMBING - FLOOR PLANS

PROJ. MGR.:	SMC
DRAWN:	ADH
DATE:	09/22/23
REVISIONS	

JOB NO. 23-63

SHEET NO:
P2
2 OF 3



W1

W2

W3

S1

S2

S3

S3 ALT

Dewberry

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Project Number :
50167381

LATHAN
ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL
510 COUNTY ROAD 11, CHELSEA ALABAMA 35080
SHELBY COUNTY BOARD OF EDUCATION

No. 24747
PROFESSIONAL
09-22-23
WADE STEWART

Wade Stewart

SHEET TITLE:
PLUMBING - RISERS

PROJ. MGR.:	SMC
DRAWN:	ADH
DATE:	09/22/23
REVISIONS	

JOB NO. 23-63

SHEET NO:
P3

3 OF 3

DUCTWORK LEGEND

(CFM) S	SUPPLY DIFFUSER
(CFM) R	RETURN GRILLE
(CFM) E	EXHAUST GRILLE
(CFM) T	TRANSFER AIR GRILLE
(CFM) SR	SIDEWALL REGISTER
ø	ROUND DUCT SYMBOL
W X H	RECTANGULAR DUCT (WIDTH X HEIGHT)
	EXISTING DUCTWORK, PIPING, OR EQUIPMENT TO REMAIN.
	EXISTING DUCTWORK, PIPING, OR EQUIPMENT TO BE REMOVED.
	RECTANGULAR SUPPLY DUCT TURNING UP
	RECTANGULAR SUPPLY AIR DUCT TURNING DOWN
	RECTANGULAR RETURN AIR OR EXHAUST DUCT TURNING UP
	RECTANGULAR RETURN AIR OR EXHAUST DUCT TURNING DOWN
	ROUND DUCT TURNING DOWN
	ROUND DUCT TURNING UP
	MAXIMUM 5' FLEXIBLE DUCT ALL BRANCH DUCTS
	RECTANGULAR 90° ELBOW WITH TURNING VANES FOR SUPPLY.
	RISE OR DROP IN DUCT
	RECTANGULAR BRANCH OFF OF RECTANGULAR DUCT WITH MANUAL DAMPER
	CONICAL SPIN-IN WITH MANUAL DAMPER
MD	MANUAL DAMPER
FD	FIRE DAMPER (PROVIDE ACCESS DOOR)
AD	AUTOMATIC DAMPER
SFD	COMBINATION SMOKE/FIRE DAMPER (PROVIDE ACCESS DOOR)
Ⓣ	TEMPERATURE SENSOR
Ⓗ	HUMIDITY SENSOR
Ⓒ	CO2 MONITOR
	CONNECT TO EXISTING, FIELD VERIFY EXACT SIZE AND LOCATION.

PIPING LEGEND

D	DRAIN PIPING
	BALL VALVE
	BUTTERFLY VALVE.
	BUTTERFLY VALVE.
	PIPE TURNING UP.
	PIPE TURNING DOWN.
	BRANCH OFF TOP OF MAIN.
	BRANCH OFF BOTTOM OF MAIN.
	BRANCH OFF SIDE OF MAIN.
	ECCENTRIC REDUCER
	UNION
	SLOPE DOWN IN DIRECTION OF ARROW.

HVAC ABBREVIATIONS

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

AIR PURIFICATION SCHEDULE

FLOW	GPS MODEL	GPS QUANTITY	MINIMUM NEEDLE SPACING	VOLTAGE	WATTS	MOUNTING LOCATION	MINIMUM ION DENSITY (IONS/CC)
CV	GPS-IMOD	1 PER COOLING COIL	1 EVERY 3/4"	115	15	UNIT SERVED	40 MILLION PER 0.75"

NOTES:

1. BASIS OF DESIGN: GLOBAL PLASMA SOLUTIONS: APPROVED EQUALS BY PHENOMENAL AIRE, ACTIVE AIR, AIRGENICS AND BIOXGEN SUBJECT TO SPECIFICATION COMPLIANCE.
2. MOUNT GPS-IMOD TO AIR INLET SIDE OF COOLING COIL.
3. IF CONTRACTOR SUBSTITUTES BASIS OF DESIGN WITH ANOTHER MANUFACTURER, CONTRACTOR SHALL COORDINATE ALL ELECTRICAL AND MECHANICAL CHANGES.
4. BI-POLAR IONIZATION SYSTEMS REQUIRING PERISHABLE GLASS TUBES ARE NOT ACCEPTABLE.
5. ALL MANUFACTURER'S MUST PASS UL-867-2007 OZONE CHAMBER TESTING BY EITHER US OR ETL.
6. PROVIDE STAND ALONE ION DETECTOR TO COMMUNICATE WITH THE BAS. SYSTEMS WITHOUT ION DETECTORS SHALL NOT BE ACCEPTABLE.
7. IONIZATION BAR TO HAVE A MINIMUM OF 1 NEEDLEPOINT EVERY 0.75" OF COIL WIDTH. SYSTEMS WITH NEEDLES FURTHER APART SHALL NOT BE ACCEPTABLE.
8. IONIZATION SYSTEMS WITH MULTIPLE ION MODULES MOUNTED TO A BAR SHALL NOT BE AN ACCEPTABLE SUBSTITUTE.
9. IONIZATION SYSTEMS THAT DO NOT USE EPOXY TO PROTECT THE ION CIRCUITRY SHALL NOT BE ACCEPTABLE.
10. IONIZATION OUTPUT SHALL BE A MINIMUM OF 40 MILLION IONS/CC FOR EVERY 0.75" OF COIL WIDTH.

*PROVIDE FOR THE FOLLOWING UNITS: AC-1 AND IHP-1, 2, 3, 4

AIR DEVICE LEGEND

MARK	EXAMPLE	DESCRIPTION	SIZE	BASIS OF DESIGN
"S"	200S / CFM	PLAQUE FACE CEILING DIFFUSER WITH ROUND NECK. ALL CEILING DIFFUSERS TO HAVE A 24X24 CEILING PANEL (EXCEPT WHERE SHOWN AS 12X12). ALL CEILING DIFFUSERS TO HAVE ROUND NECKS.	CFM SHOWN ON PLANS. NECK & RUN-OUT SIZED PER THE FOLLOWING: CFM / NECK SIZE / RUN-OUT SIZE 0 - 100 / 6" / 6" 101 - 200 / 8" / 8" 201 - 300 / 10" / 10" 301 - 500 / 12" / 12" 501 - 750 / 15" / 15" 751 - 1000 / 18" / 18"	TITUS OMNI
"R", "E", "T"	200R / CFM; R24 / SQUARE NECK SIZE	CEILING MOUNTED RETURN (R), EXHAUST (E), OR TRANSFER (T) EGGCRATE GRILLE. ALL GRILLES IN A LAY-IN CEILING TO HAVE A 24X24 CEILING PANEL.	CFM SHOWN ON PLANS. NECK SIZED PER THE FOLLOWING: CFM / NECK SIZE 0 - 100 / 6x6 101 - 200 / 8x8 201 - 350 / 10x10 351 - 500 / 12x12 501 - 750 / 14x14 751 - 950 / 16x16 951 - 1200 / 18x18 1201 - 1500 / 20x20 1501 - 2000 / 24x24	TITUS 50F
SR	SR12X6 / 200 / CFM; W x H	SIDEWALL SUPPLY REGISTER.	SIZE (WxH) IN INCHES & CFM SHOWN.	TITUS 272FL
WRG / WTG	WRG12X6 / 200 / CFM; W x H	WALL RETURN GRILLE / WALL TRANSFER GRILLE.	SIZE (WxH) IN INCHES & CFM SHOWN.	TITUS 350FL

NOTES:

1. SEE SPECIFICATIONS FOR FINISH AND CONSTRUCTION MATERIAL FOR EACH AIR DEVICE.
2. COORDINATE WITH ARCHITECT'S CEILING PLAN FOR LAY-IN OR SURFACE MOUNTING OF CEILING MOUNTED AIR DEVICES.
3. COORDINATE LOCATIONS OF CEILING MOUNTED AIR DEVICES WITH LIGHT FIXTURES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES. DO NOT SCALE MECHANICAL DRAWINGS FOR LOCATIONS.

FAN SCHEDULE

FAN TYPE:

1. CEILING MOUNTED EXHAUST FAN
2. FLY FAN

FAN ACCESSORIES:

1. BACKDRAFT DAMPER.
2. DISCONNECT SWITCH.
3. ALUMINUM CEILING GRILLE.
4. 5A-120V FAN SPEED CONTROLLER.
5. INTERLOCK WITH LIGHT SWITCH.
6. INTERLOCK T'STAT.
7. DIRECT DRIVE WITH FAN MOUNTED SOLID STATE SPEED CONTROL.
8. FUSED DISCONNECT, MAGNETIC DOOR SWITCH.
9. PROVIDE INDOOR OR OUTDOOR MODEL AS REQUIRED. SEE DRAWINGS.

MARK	FAN TYPE	QUANTITY	AIRFLOW (CFM)	E.S.P. (in-wg)	WHEEL SIZE	RPM	MOTOR (HP / W)	ELECTRICAL			ACCESSORIES	BASIS OF DESIGN	
								VOLTAGE	PH	HZ		MANUFACTURER	MODEL
CEF-1	1	1	140	0.50	8"	908	68 W	120 V	1	60	1,2,3,4,5	Loren Cook Company	GC
CEF-2	1	1	210	0.50	8"	1398	100 W	120 V	1	60	1,2,3,4,5	Loren Cook Company	GC
CEF-3	1	1	210	0.50	8"	1398	100 W	120 V	1	60	1,2,3,4,5	Loren Cook Company	GC
CEF-4	1	1	50	0.50	8"	836	30 W	120 V	1	60	1,2,3,4,5	Loren Cook Company	GC
CEF-5	1	1	700	0.75	6"	1602	1/3 HP	120 V	1	60	1,2,3,4,6	Loren Cook Company	GC
FF-A	2	5	1180	-	-	-	1/5 HP	120 V	1	60	7,8,9	Powered Aire	RMP-1-36

INDOOR HEAT PUMP (DUCTLESS SPLIT SYSTEM) SCHEDULE

TYPE:

1. INDOOR, HORIZONTAL DUCTED
2. INDOOR, CEILING SUSPENDED
3. INDOOR, WALI MOUNT

NOTES:

1. AIRFLOW RATED AT HIGH FAN SPEED.
2. POWER FOR INDOOR UNIT IS FED FROM OUTDOOR UNIT.
3. COOLING CAPACITY RATED AT 95°F.
4. HEATING CAPACITY RATED AT 47°F.

ACCESSORIES:

1. 3-POLE DISCONNECT SWITCH.
2. HARD WIRED UNIT CONTROLLER.
3. FULL PORT BALL VALVES & SCHRADER VALVES WITH FLARED CONNECTIONS.
4. CONDENSATE PUMP (120/1/60) - 1 GPH @ 33 FT. HD.

MARK	TYPE	AIRFLOW	OSA CFM	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	DIMENSIONS (WxDxH)	ELECTRICAL				ACCESSORIES	BASIS OF DESIGN
							V	PH	HZ	MCA		
IHP-1	1	1120	70	36	38	55" X 29" X 10"	208 V	1	60	4 A	1,2,3,4	MITSUBISHI
IHP-2	2	705	-	30	32	51" X 27" X 9"	208 V	1	60	1 A	1,2,3,4	MITSUBISHI
IHP-3	2	705	-	30	32	51" X 27" X 9"	208 V	1	60	1 A	1,2,3,4	MITSUBISHI
IHP-4	3	700	-	24	26	46" X 12" X 15"	208 V	1	60	1 A	1,2,3,4	MITSUBISHI

OUTDOOR HEAT PUMP (DUCTLESS SPLIT SYSTEM) SCHEDULE

TYPE:

1. OUTDOOR HEAT PUMP

NOTES:

1. AIRFLOW RATED AT HIGH FAN SPEED.
2. POWER FOR INDOOR UNIT IS FED FROM OUTDOOR UNIT.
3. COOLING CAPACITY RATED AT 95°F.
4. HEATING CAPACITY RATED AT 47°F.
5. REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING TYPE TAMPER RESISTANT CAPS.

MARK	TYPE	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	ELECTRICAL					EFFICIENCY		BASIS OF DESIGN
				V	PH	HZ	MCA	MOCP	SEER2	HSPF2	
OHP-1	1	36	38	208 V	1	60	25 A	30 A	18.7	8.6	MITSUBISHI
OHP-2	1	30	32	208 V	1	60	19 A	25 A	19.8	9.2	MITSUBISHI
OHP-3	1	30	32	208 V	1	60	19 A	25 A	19.8	9.2	MITSUBISHI
OHP-4	1	24	26	208 V	1	60	19 A	25 A	21.3	9.3	MITSUBISHI

CEILING HEATER SCHEDULE

HEATER TYPE:

1. ELECTRIC CEILING HEATER.
2. BASIS OF DESIGN: MARKEL 3470

ACCESSORIES:

1. SURFACE MOUNTING.
2. WALL MOUNTED THERMOSTAT.
3. DISCONNECT SWITCH.
4. HIGH LIMIT CONTROL.S.
5. RADIAL DIFFUSER.

MARK	SIZE	ELECTRICAL			ACCESSORIES
		VOLTAGE	PH	HZ	
ECH-1	4 kW	208 V	1	60	1,2,3,4,5
ECH-2	4 kW	208 V	1	60	1,2,3,4,5
ECH-3	4 kW	208 V	1	60	1,2,3,4,5

PACKAGED AC UNIT - ELECTRIC

TYPE:

PACKAGED AC UNIT WITH ELECTRIC HEAT.

NOTES:

1. COOLING CAPACITY IS NET CAPACITY @ 95°F AMBIENT.
2. UNIT SHALL BE ASHRAE 90.1 - 2013 COMPLIANT.

ACCESSORIES:

1. 2" THICK THROWAWAY FILTER, 30% EFFICIENT.
2. CONDENSER COIL GUARD.
3. BELT DRIVE EVAPORATOR FAN.
4. HEAD PRESSURE CONTROL TO 10°F AMBIENT.
5. HINGED ACCESS DOORS.
6. STAINLESS STEEL DRAIN PAN.
7. OSA INTAKE HOOD WITH AUTO DAMPER, ECONOMIZER, DIFFERENTIAL ENTHALPY CONTROLS, AND BAROMETRIC RELIEF.
8. FACTORY MODULATING HOT GAS REHEAT COIL.

MARK	SUPPLY FAN			OSA CFM	ENTERING AIR TEMP.		DX COOLING CAPACITY			ELECTRICAL					ELECTRIC HEAT		EER	WEIGHT	ACCESSORIES	BASIS OF DESIGN
	CFM	"W.G. E.S.P.	MOTOR HP		D.B. (°F)	W.B. (°F)	TOTAL (MBH)	SENS (MBH)	NOM. TONS	V	PH	Hz	MCA	MOCP	kW	STAGES				
AC-1	2700	1"	3	600	80°F	67°F	89.9	66.1	7.5	460V	3	60	62 A	70 A	36	2	11.2	1200 LBS.	1,2,3,4,5,6,7,8	TRANE

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Project Number : 50167381

LATHAN ARCHITECTS

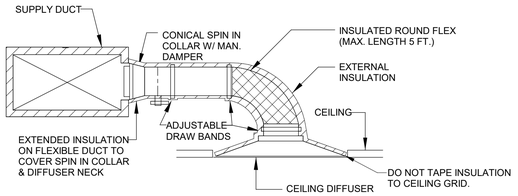
ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL
510 COUNTY ROAD 11, CHELSEA ALABAMA 35080
SHELBY COUNTY BOARD OF EDUCATION

SHEET TITLE:
MECHANICAL - LEGENDS & SCHEDULES

PROJ. MGR.:	JWS
DRAWN:	LWH
DATE:	09/22/23
REVISIONS	

JOB NO. 23-63

SHEET NO:
M1
1 OF 6

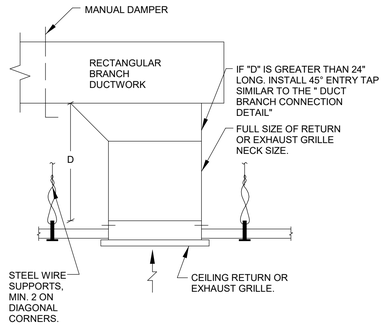


NOTE:

1. WHEREVER THE SUPPLY DUCT HEIGHT IS INSUFFICIENT TO CONNECT THE SPIN-IN, THE SPIN-IN MAY BE CONNECTED TO THE TOP OR BOTTOM OF THE DUCT. IF THE BRANCH DUCT MUST BE CONNECTED TO THE SIDE OF THE MAIN DUCT, USE A RECTANGULAR BRANCH DUCT CONNECTION OF EQUAL AIR VELOCITY AND TRANSITION TO ROUND DUCT. REFER TO SPECIFICATION FOR MAXIMUM TURNS IN FLEX DUCT.
2. PROVIDE EXTERNAL INSULATION ON ALL ROUND BRANCH DUCTWORK.SEE SPECS FOR THICKNESS AND EXTENT.
3. PROVIDE EXTERNAL INSULATION ON BACK SIDE OF CEILING DIFFUSERS. THICKNESS TO MATCH BRANCH DUCT INSULATION THICKNESS.

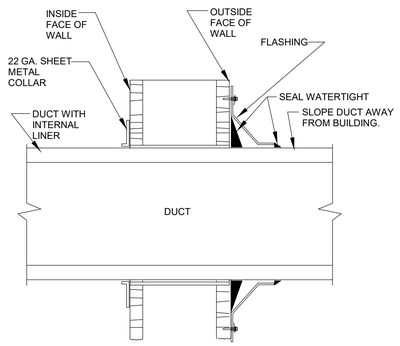
CEILING DIFFUSER INSTALLATION DETAIL

NO SCALE



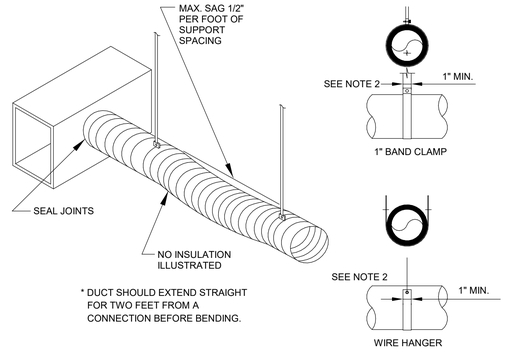
CEILING RETURN/EXHAUST BRANCH CONNECTION DETAIL

NO SCALE



DUCTWORK THRU OUTSIDE WALL DETAIL

NO SCALE

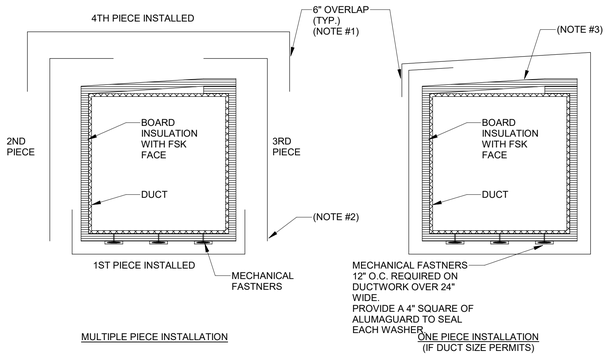


NOTES:

1. SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR CAUSE OUT OF ROUND SHAPE.
2. DUCTS ARE FLEXIBLE WITH EXTERNAL INSULATION AND VAPOR BARRIER JACKETING.
3. MIN. CENTER LINE BEND LINE RADIUS IS ONE DIA. (OR INSIDE RADIUS OF D/2).
4. FLEXIBLE DUCT LENGTH SHALL NOT EXCEED 5 LINEAR FEET.

FLEXIBLE DUCT SUPPORT DETAIL

NO SCALE

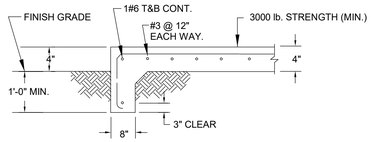


NOTES:

1. ALL OVERLAPS SHALL BE A MINIMUM OF 6".
2. PROVIDE STUCCO EMBOSSED ALUMINUM JACKET. SIDE PIECES SHOULD BE CUT FLUSH WITH THE BOTTOM CORNER AND SHOULD NOT BE FOLDED UNDER THE DUCT.
3. OVERLAP BOARD INSULATION ON TOP OF DUCT TO CREATE A SLOPED TOP TO PREVENT PONDING OF WATER. TAPE ALL INSULATION JOINTS BEFORE APPLYING WEATHER PROOFING MATERIAL.

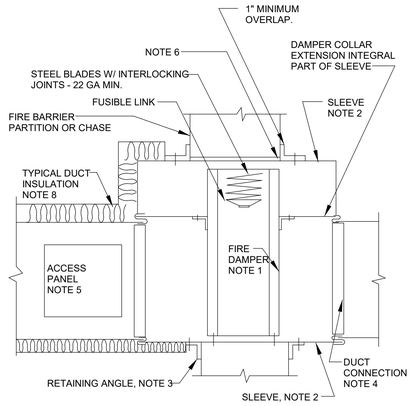
EXTERIOR DUCT INSULATION AND ALUMINUM JACKET

NO SCALE



CONCRETE PAD DETAIL

NO SCALE

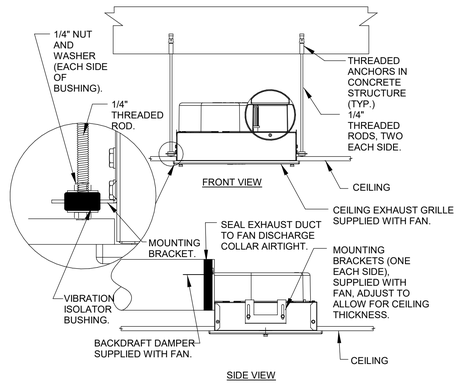


NOTES:

1. A VERTICAL DAMPER IS SHOWN. HORIZONTAL DAMPER INSTALLATION, IS SIMILAR. FOLLOW DAMPER MANUFACTURER'S INSTRUCTIONS AND SMACNA FIRE DAMPER INSTALLATION GUIDELINE, INCLUDING FASTENER OPTIONS AND GAGES FOR SLEEVE AND RETAINING ANGLES. FIRE DAMPERS MUST BE INSTALLED IN THE PARTITION OR FLOOR AND NOT OUTSIDE THE PENETRATION. ALL FIRE DAMPERS SHALL BE UL LISTED.
2. GALVANIZED SLEEVE: GAGE NOT LESS THAN CONNECTING DUCT. FASTEN SLEEVE TO DAMPER FRAME AND TO PERIMETER ANGLES.
3. RETAINING ANGLES: GALVANIZED STEEL, NOT LESS THAN 1-1/2" x 1-1/2", 14 GAGE, TO PROVIDE 1" MINIMUM OVERLAP OF OPENING ON ALL 4 SIDES. RETAINING ANGLES MUST NOT BE ATTACHED TO EACH OTHER AT CORNERS. SECURE RETAINING ANGLES TO FIRE DAMPER SLEEVE ONLY.
4. BREAKAWAY DUCT CONNECTION: CONTRACTOR'S OPTION OF TYPES SHOWN IN SMACNA OR PER MANUFACTURER'S RECOMMENDATIONS.
5. ACCESS DOORS: SIZE AND LOCATION TO PERMIT SERVICING THE FUSIBLE LINK OR LINKS.
6. PROVIDE CLEARANCE TO PERMIT INSTALLATION & EXPANSION. PROVIDE 1/8" PER FOOT LARGER THAN THE OVERALL SIZE OF THE DAMPER/SLEEVE ASSEMBLY. THE MAXIMUM OPENING SIZE SHALL NOT EXCEED 1/8" PER FOOT + 2", NOR SHALL THE OPENING BE LESS THAN 1/4" LARGER THAN THE DAMPER/SLEEVE ASSEMBLY.
7. ALL DUCT WORK RISERS WHICH ARE RUN EXPOSED, SUCH AS THRU ATTIC FLOORS AND MECHANICAL ROOM FLOORS, SHALL BE PROVIDED WITH 4" HIGH CONCRETE CURB AROUND OPENING FOR DUCT.

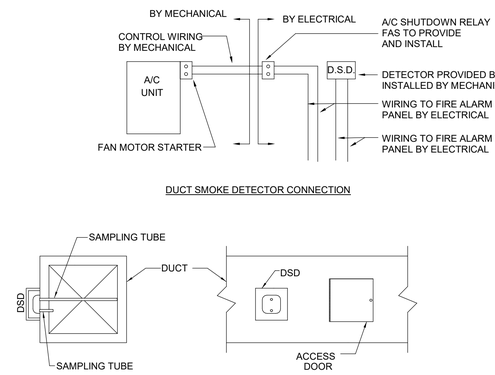
FIRE DAMPER INSTALLATION DETAIL

NO SCALE



CEILING EXHAUST FAN DETAIL

NO SCALE

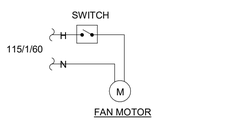


DUCT SMOKE DETECTOR CONNECTION

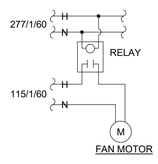
DUCT SMOKE DETECTOR INSTALLATION

DUCT SMOKE DETECTOR DETAIL

NO SCALE



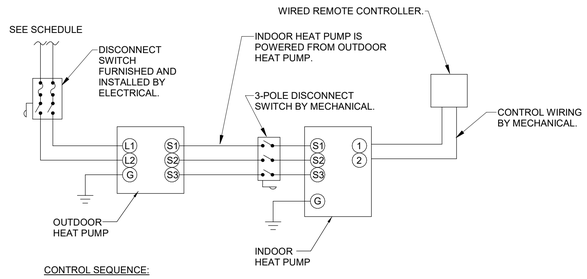
EXHAUST FAN CONTROLLED BY SWITCH.



EXHAUST FAN CONTROLLED BY LIGHTING CIRCUIT.

EXHAUST FAN CONTROLS

NO SCALE

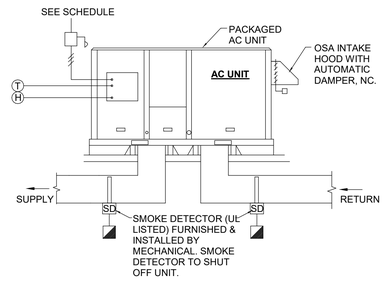


CONTROL SEQUENCE:

THE AC UNIT SHALL BE CONTROLLED BY A WIRED WALL MOUNTED REMOTE CONTROLLER. THE CONTROLLER SHALL CYCLE ON COMPRESSOR(S) TO MAINTAIN COOLING SETPOINT (74°F - ADJUSTABLE) AND HEATING SETPOINT (70°F - ADJUSTABLE). ALL MINI-SPLIT AC UNITS THAT SERVE ELECTRICAL AND IT ROOMS SHALL NOT SET THEIR TEMPERATURE BACK AT NIGHT. FOR ALL MINI-SPLIT AC UNITS THAT SERVE OFFICES, CLASSROOMS, ETC. SHALL SET THEIR TEMPERATURE BACK TO 4°F ABOVE SETPOINT IN SUMMER AND 4°F BELOW SETPOINT IN THE WINTER. COORDINATE WITH OWNER TO ESTABLISH OCCUPIED / UNOCCUPIED SCHEDULES.

DUCTLESS SPLIT SYSTEM CONTROLS

NO SCALE



PACKAGED AC UNIT CONTROLS

NO SCALE

CONTROL SEQUENCE

OCCUPIED MODE:
A WALL MOUNTED, 24 HOUR, 7 DAY PER WEEK PROGRAMMABLE THERMOSTAT SHALL START THE SUPPLY FAN, SUBJECT TO INTERNAL AC UNIT SAFETIES AND SMOKE DETECTOR INTERLOCK (WHERE REQUIRED). THE SPACE TEMPERATURE SENSOR SHALL CYCLE ON COMPRESSOR TO MAINTAIN COOLING SETPOINT (75°F - ADJUSTABLE) AND ELECTRIC HEAT AS REQUIRED TO MAINTAIN HEATING SETPOINT (70°F - ADJUSTABLE). DURING OCCUPIED MODE, THE OUTSIDE AIR DAMPER SHALL OPEN TO A MINIMUM POSITION TO PROVIDE THE MINIMUM SCHEDULED OSA CFM. AUTO DAMPER POSITION SHALL BE DETERMINED BY THE TEST AND BALANCE CONTRACTOR.

DEHUMIDIFICATION SEQUENCE:
UPON A RISE IN SPACE HUMIDITY (ABOVE 60% RH), THE AC UNIT SHALL ENABLE ONE STAGE OF COOLING AND STAGE ON THE HOT GAS REHEAT COIL TO MAINTAIN A SPACE TEMPERATURE OF 74°F. (ADJUSTABLE). UPON THE HUMIDITY FALLING BACK BELOW SETPOINT (55% RH) THE UNIT SHALL RETURN TO NORMAL OPERATION.

UNOCCUPIED MODE:
THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED DURING UNOCCUPIED HOURS. THE SPACE TEMPERATURE SENSOR SHALL CYCLE ON COMPRESSOR TO MAINTAIN COOLING SETPOINT (80°F - ADJUSTABLE) AND ELECTRIC HEAT AS REQUIRED TO MAINTAIN HEATING SETPOINT (60°F - ADJUSTABLE).

ECONOMIZER:
THE UNIT WILL MEASURE THE DRY BULB SUPPLY AIR TEMPERATURE AND THE DRY BULB OUTDOOR AIR TEMPERATURE AND ECONOMIZER WILL BE ENABLED WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW THE DRY BULB CHANGE OVER SETPOINT (55°F). WHEN ECONOMIZING IS ENABLED AND THE UNIT IS OPERATING IN COOLING MODE, THE OUTSIDE AIR DAMPER AND RETURN AIR DAMPER WILL BE MODULATED IN TANDEM TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. IF THE ECONOMIZER CANNOT MAINTAIN SPACE TEMPERATURE, THE COMPRESSORS SHALL BE ENABLED.

TO PREVENT SPACE OVER-PRESSURIZATION, THE BAROMETRIC RELIEF DAMPER AT THE AC UNIT SHALL OPEN DURING ECONOMIZER MODE.

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Project Number :
50167381

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
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SHELBY COUNTY BOARD OF EDUCATION

ALABAMA
No. 24747
PROFESSIONAL
09-22-23
ENGINEER
WADE STEWART

SHEET TITLE:
MECHANICAL - CONTROLS & DETAILS

PROJ. MGR.:	JWS
DRAWN:	LWH
DATE:	09/22/23
REVISIONS	

JOB NO. 23-63

SHEET NO:
M2

2 OF 6

VENTILATION OUTSIDE AIR CALCULATIONS (AC-1)

		Az	Pz	Ra	Rp	Vbz	Ez	Required OSA (Voz)	Required (IAQP Method)	Provided OSA
Room	**Room Type**	**FT²**	**PEOPLE**	**CFM/FT²**	**CFM / P**	**CFM**		**CFM**	**CFM**	**CFM**
A103 - Multi Purpose	Health club/aerobics	1910	77	0.06	20	1,655	0.80	2,068	600	600

Notes:
1. Outside Air Calculations per 2021 IMC - Table 403.3.1.1

Total Outside Air Required by AC-1: 2,068 CFM

Total Outside Air Required & Provided by AC-1 using IAQP: 600 CFM

VENTILATION OUTSIDE AIR CALCULATIONS (IHP-1)

		Az	Pz	Ra	Rp	Vbz	Ez	Required OSA (Voz)	Required (IAQP Method)	Provided OSA
Room	**Room Type**	**FT²**	**PEOPLE**	**CFM/FT²**	**CFM / P**	**CFM**		**CFM**	**CFM**	**CFM**
A105 - Storage	Storage room	125	0	0.12	0	15	0.80	19	-	20
A108 - Hall	Corridors	115	0	0.06	0	7	0.80	9	-	10
A109 - Clean	Storage room	115	0	0.12	0	14	0.80	17	-	20
A110 - Concession	Kitchens (cooking)	570	4	0.12	7.5	98	0.80	123	20	20

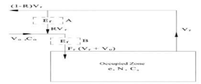
Notes:
1. Outside Air Calculations per 2021 IMC - Table 403.3.1.1

Total Outside Air Required by IHP-1: 168 CFM

Total Outside Air Required & Provided by IHP-1 using IAQP: 70 CFM

Zone Tag	Facility Type	Zone Use	Zone Floor Area (square ft) Az	Zone Max Occupancy Pz	Table 6.1 OA per Occupant Rp	Table 6.1 cfm/ft2 Ra	Pz * Rp Pz * Rp	Az * Ra Az * Ra	Table 6.2 Ventilation Effectiveness Ez	Outdoor Air to Zone (CFM) with Ez correction (Vbz/Ez)
Concessions - A110	Educational Facilities	Cafeteria/Fast Food Dining	570.0	4.0	7.5	0.12	30	68	0.8	123
								Min. Occ. OSA: 85.5		OA required per VRP

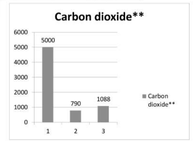
Zone Height (feet)	10
Desired Outside Air (Vo) IAQP	70
Supply Air (Vs)	1,120
Return Air (Vr)	1050
Recirc. Flow Factor (R)	0.94
Ventilation Effectiveness (Ez)	0.8
Level of Physical Activity	Standing (desk work)
Filter Location	B
HVAC Flow Type	Constant
Outdoor Air Flow Type	Constant



Air Changes Per Hour	11.8	VRP OA CFM per person	30.8
Outside Air Per VRP	123 CFM	IAQ OA CFM per person	17.5
Outside Air Per IAQ	70 CFM		
Outside Air Savings	53 CFM	Winter Heating Savings	
OA Summer Drybulb	95.4	OA Winter Design DB (F)	18.5
OA Summer Wetbulb	78.6	Supply Air DB Setpoint (F)	70
Coil Leaving Air Drybulb (F)	54.0	MBH Saved Winter	3.0
Coil Leaving Air Wetbulb (F)	54.0	KW Saved Winter	0.9
OA MBH Saved Summer*	4.6		
OA Tons Saved Summer*	0.4		

*OA = Outside Air
***OSHA, NIOSH & WHO most conservative values used
http://www.cdc.gov/niosh/npg/npgsyn-a.html

Indoor Contaminants Generated By People & From Outdoors	Maximum Threshold Value (PPM)	Steady State Using the VRP* (Prescribed OA) Plasma Off	Steady State Using the IAQ Method (Reduced OA) Plasma On	Is Steady State Level Acceptable at Reduced OA Levels?	Contaminant Generation Rate (PPM)	Filtration Effectiveness	Cognizant Authority***
Acetaldehyde	100.0	0.01111	0.00060	Yes	0.00048	50%	OSHA
Acetone	250.0	0.00153	0.00013	Yes	0.00654	50%	NIOSH
Ammonia	25.00	0.01045	0.00190	Yes	0.21460	50%	NIOSH
Benzene	1.0000	0.00251	0.00015	Yes	0.00022	50%	OSHA
2- Butanone (MEK)	200.0	0.00016	0.00002	Yes	0.00133	50%	NIOSH
Carbon dioxide**	5000	790	1088	Yes	441	0%	NIOSH
Chloroform	2.0000	0.00011	0.00001	Yes	0.00004	50%	NIOSH
Dioxane	100.0	0.00000	0.00000	Yes	0.00000	50%	OSHA
Hydrogen Sulfide	10.0	0.00000	0.00000	Yes	0.00000	50%	NIOSH
Methane	NA	1.68094	1.68094	Yes	0.00000	0%	NA
Methanol	200.0	0.00000	0.00000	Yes	0.00000	0%	NIOSH
Methylene Chloride	25.0	0.00074	0.00005	Yes	0.00121	50%	OSHA
Propane	1000.0	0.00998	0.00998	Yes	0.00000	0%	NIOSH
Tetrachloroethane	5.0000	0.00000	0.00000	Yes	0.00000	50%	OSHA
Tetrachloroethylene	100.0000	0.00037	0.00002	Yes	0.00001	50%	OSHA
Toluene	100.0000	0.00532	0.00031	Yes	0.00032	50%	NIOSH
1,1,1 - Trichloroethane	350.0000	0.00076	0.00005	Yes	0.00058	50%	NIOSH
Xylene	100.0000	0.00230	0.00014	Yes	0.00000	50%	OSHA



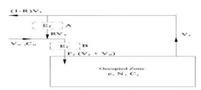
1 = ASHRAE & NIOSH C02 Limit
2 = C02 Level at Ventilation Rate OA Flow Rate
3 = C02 Level at IAQ Procedure OA Flow Rate
**Carbon dioxide has been provided for reference only for gathering demand control ventilation (DCV) setpoints. The National Research Council was commissioned by the US Navy to prove C02 is not a contaminant of concern when using air purification to control the other contaminants of concern, as found on submarines.

Building materials and furnishings assumed to have no VOCs and off-gassing is complete
All yellow shaded boxes require user input or review

Is IAQ acceptable at reduced outside air levels? Yes

Zone Tag	Facility Type	Zone Use	Zone Floor Area (square ft) Az	Zone Max Occupancy Pz	Table 6.1 OA per Occupant Rp	Table 6.1 cfm/ft2 Ra	Pz * Rp Pz * Rp	Az * Ra Az * Ra	Table 6.2 Ventilation Effectiveness Ez	Outdoor Air to Zone (CFM) with Ez correction (Vbz/Ez)
Multi Purpose - A103	Educational Facilities	Health Club/Aerobics Room	1,910.0	77.0	20.0	0.06	1540	115	0.8	2068
								Min. Occ. OSA: 143.25		OA required per VRP

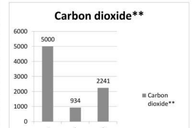
Zone Height (feet)	9
Desired Outside Air (Vo) IAQP	600
Supply Air (Vs)	2,700
Return Air (Vr)	2700
Recirc. Flow Factor (R)	1.00
Ventilation Effectiveness (Ez)	0.8
Level of Physical Activity	Moderate Exercise
Filter Location	B
HVAC Flow Type	Constant
Outdoor Air Flow Type	Constant



Air Changes Per Hour	9.8	VRP OA CFM per person	26.9
Outside Air Per VRP	2068 CFM	IAQ OA CFM per person	7.8
Outside Air Per IAQ	600 CFM		
Outside Air Savings	1468 CFM	Winter Heating Savings	
OA Summer Drybulb	95.4	OA Winter Design DB (F)	18.5
OA Summer Wetbulb	78.6	Supply Air DB Setpoint (F)	70
Coil Leaving Air Drybulb (F)	54.0	MBH Saved Winter	82.0
Coil Leaving Air Wetbulb (F)	54.0	KW Saved Winter	24.0
OA MBH Saved Summer*	128.7		
OA Tons Saved Summer*	10.7		

*OA = Outside Air
***OSHA, NIOSH & WHO most conservative values used
http://www.cdc.gov/niosh/npg/npgsyn-a.html

Indoor Contaminants Generated By People & From Outdoors	Maximum Threshold Value (PPM)	Steady State Using the VRP* (Prescribed OA) Plasma Off	Steady State Using the IAQ Method (Reduced OA) Plasma On	Is Steady State Level Acceptable at Reduced OA Levels?	Contaminant Generation Rate (PPM)	Filtration Effectiveness	Cognizant Authority***
Acetaldehyde	100.0	0.01115	0.00177	Yes	0.00130	50%	OSHA
Acetone	250.0	0.00208	0.00106	Yes	0.01759	50%	NIOSH
Ammonia	25.00	0.02858	0.02875	Yes	0.57710	50%	NIOSH
Benzene	1.0000	0.00253	0.00041	Yes	0.00059	50%	OSHA
2- Butanone (MEK)	200.0	0.00027	0.00019	Yes	0.00359	50%	NIOSH
Carbon dioxide**	5000	934	2241	Yes	1186	0%	NIOSH
Chloroform	2.0000	0.00011	0.00002	Yes	0.00011	50%	NIOSH
Dioxane	100.0	0.00000	0.00000	Yes	0.00000	50%	OSHA
Hydrogen Sulfide	10.0	0.00000	0.00000	Yes	0.00000	50%	NIOSH
Methane	NA	1.68094	1.68094	Yes	0.00000	0%	NA
Methanol	200.0	0.00000	0.00000	Yes	0.00000	0%	NIOSH
Methylene Chloride	25.0	0.00094	0.00027	Yes	0.00326	50%	OSHA
Propane	1000.0	0.00998	0.00998	Yes	0.00000	0%	NIOSH
Tetrachloroethane	5.0000	0.00000	0.00000	Yes	0.00000	50%	OSHA
Tetrachloroethylene	100.0000	0.00037	0.00006	Yes	0.00004	50%	OSHA
Toluene	100.0000	0.00535	0.00086	Yes	0.00085	50%	NIOSH
1,1,1 - Trichloroethane	350.0000	0.00081	0.00019	Yes	0.00156	50%	NIOSH
Xylene	100.0000	0.00230	0.00035	Yes	0.00000	50%	OSHA



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**Carbon dioxide has been provided for reference only for gathering demand control ventilation (DCV) setpoints. The National Research Council was commissioned by the US Navy to prove C02 is not a contaminant of concern when using air purification to control the other contaminants of concern, as found on submarines.

Building materials and furnishings assumed to have no VOCs and off-gassing is complete
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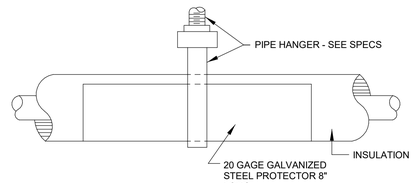
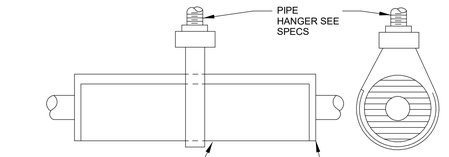
Is IAQ acceptable at reduced outside air levels? Yes

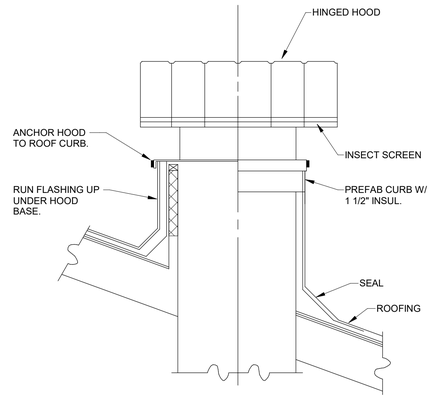


INSULATED LINES

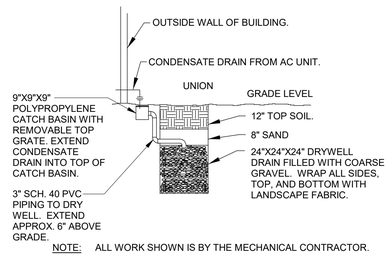


UNINSULATED LINES

REFRIGERANT PIPING HANGER DETAIL
NO SCALE

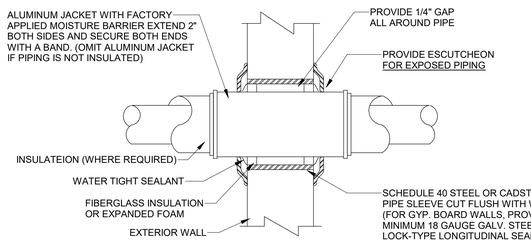


INTAKE / RELIEF HOOD DETAIL - SLOPED ROOF
NO SCALE



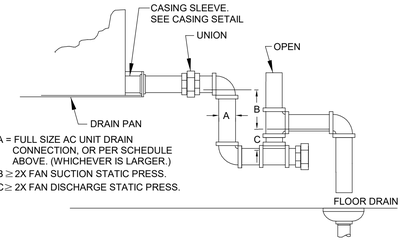
NOTE: ALL WORK SHOWN IS BY THE MECHANICAL CONTRACTOR.

DRY WELL DETAIL
NO SCALE



PIPE PENETRATION DETAIL
NO SCALE

MINIMUM CONDENSATE PIPE SIZE	
AC TONS	MIN. DRAIN SIZE
0 TO 20	1"
21 TO 40	1-1/4"
41 TO 60	1-1/2"
61 TO 100	2"
101 TO 250	3"
251 & LARGER	4"



A = FULL SIZE AC UNIT DRAIN CONNECTION, OR PER SCHEDULE ABOVE. (WHICHEVER IS LARGER.)
B ≥ 2X FAN SUCTION STATIC PRESS.
C ≥ 2X FAN DISCHARGE STATIC PRESS.

AC UNIT DRAIN TRAP DETAIL
NO SCALE

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com

Project Number : 50167381

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL
510 COUNTY ROAD 11, CHELSEA, ALABAMA 35080
SHELBY COUNTY BOARD OF EDUCATION

ALABAMA
No. 24747
PROFESSIONAL
09-22-23
ENGINEER
WADE STEWART

SHEET TITLE:
MECHANICAL - DETAILS & OSA CALCS

PROJ. MGR.:	JWS
DRAWN:	LWH
DATE:	09/22/23
REVISIONS	

JOB NO. 23-63

SHEET NO:
M3

Dewberry
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www.dewberry.com

Project Number :
50167381

1 MECHANICAL - DEMOLITION FLOOR PLAN
1/8" = 1'-0"

LATHAN
ARCHITECTS

ADDITION TO FIELDHOUSE FOR
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510 COUNTY ROAD 11, CHELSEA, ALABAMA 35080
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PROJ. MGR.:	JWS
DRAWN:	LWH
DATE:	09/22/23
REVISIONS	

JOB NO. 23-63

SHEET NO:
M4
4 OF 6

0 1" 2"

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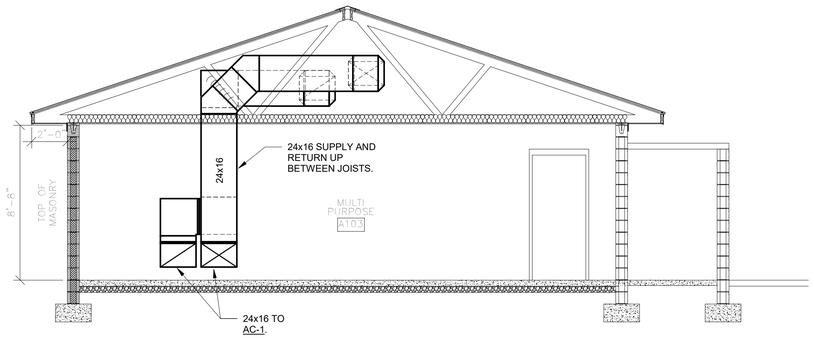
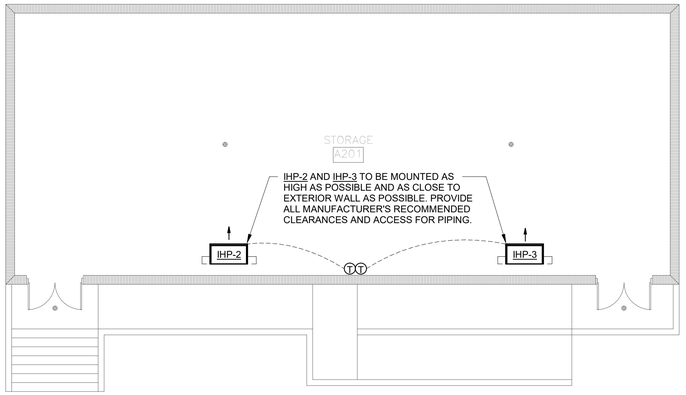
LATHAN
ARCHITECTS

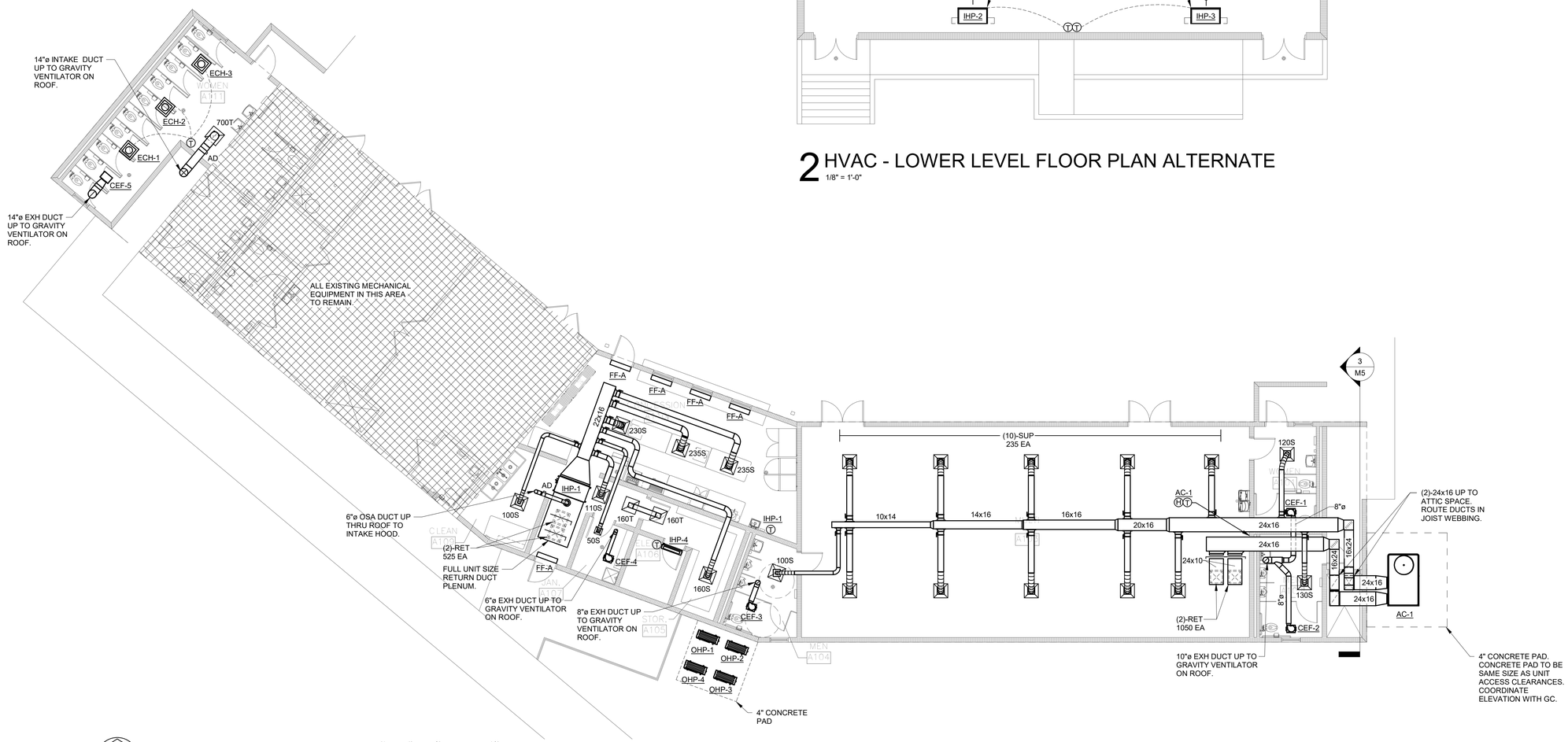


3 SECTION AT AC-1
1/4" = 1'-0"

0' 2' 4' 8'
SCALE: 1/4" = 1' - 0"



2 HVAC - LOWER LEVEL FLOOR PLAN ALTERNATE
1/8" = 1'-0"



1 HVAC - FLOOR PLAN
1/8" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1' - 0"

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL
510 COUNTY ROAD 11, CHELSEA, ALABAMA 35080
SHELBY COUNTY BOARD OF EDUCATION

SHEET TITLE:
HVAC - FLOOR PLAN

PROJ. MGR.:	JWS
DRAWN:	LWH
DATE:	09/22/23
REVISIONS	

JOB NO. 23-63

SHEET NO:
M5
5 OF 6

0 1" 2"

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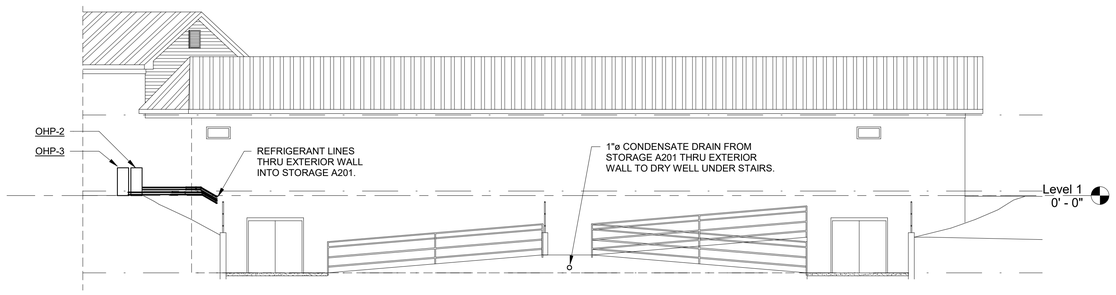
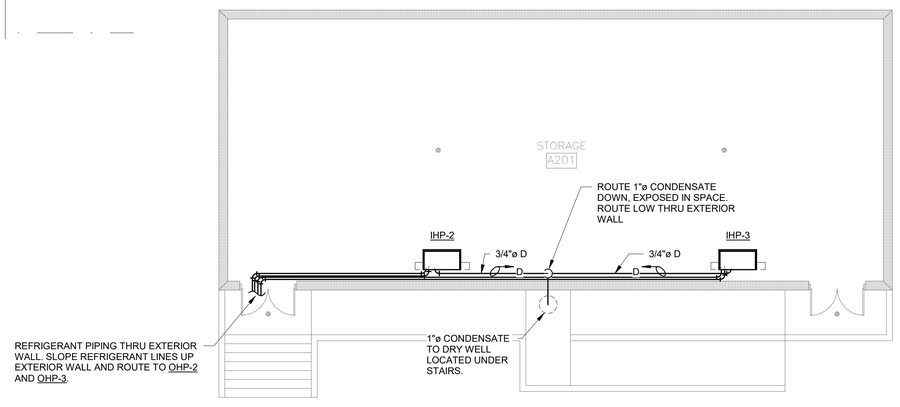
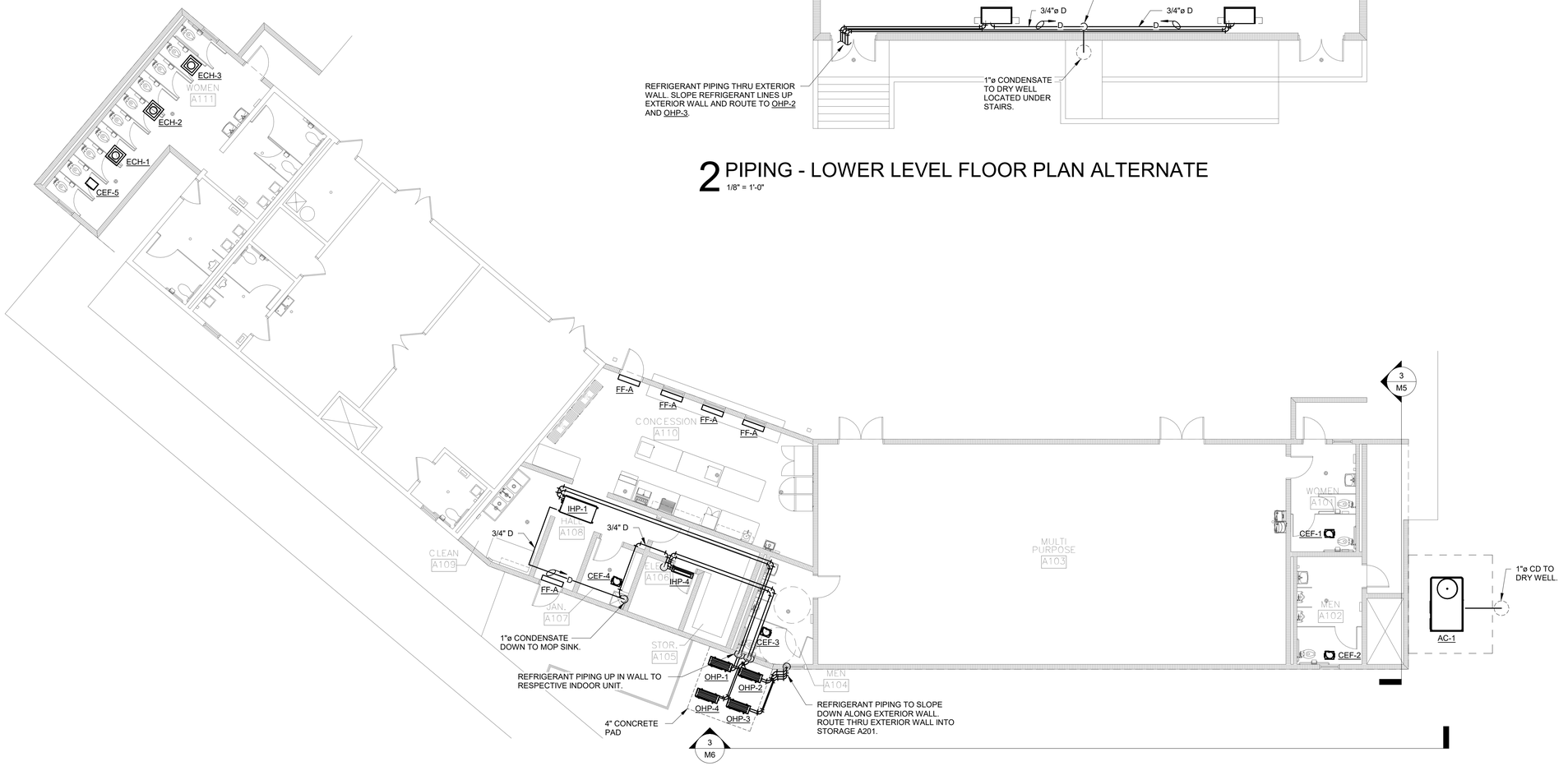
LATHAN ARCHITECTS



3 Section - PIPING THRU EXTERIOR WALL
1/8" = 1'-0"



2 PIPING - LOWER LEVEL FLOOR PLAN ALTERNATE
1/8" = 1'-0"



1 PIPING - FLOOR PLAN
1/8" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1' - 0"

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL
510 COUNTY ROAD 11, CHELSEA, ALABAMA 35080
SHELBY COUNTY BOARD OF EDUCATION

A B STEWART
No. 24747
PROFESSIONAL
09-22-23
ENGINEER
WADE STEWART

SHEET TITLE:
PIPING - FLOOR PLAN

PROJ. MGR.:	JWS
DRAWN:	LWH
DATE:	09/22/23
REVISIONS	

JOB NO. 23-63

SHEET NO:
M6

6 OF 6

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	MCGRAW-EDISON	ISW-E02-LED-E1-BL4-BZ-TR	FURNISHED WITH FIXTURE			+9'	BRACKET		
C (EM)	MCGRAW-EDISON	ISW-E02-LED-E1-BL4-BZ-TR-BBB	FURNISHED WITH FIXTURE			+9'	BRACKET		SEE NOTE 1
D	METALUX	4SNLED-LD4-4600SL-LW-UNV-L840-CD1	FURNISHED WITH FIXTURE			CEILING	SURFACE		
D (EM)	METALUX	4SNLED-LD4-4600SL-LW-UNV-EL14-L835-CD1	FURNISHED WITH FIXTURE			CEILING	SURFACE		SEE NOTE 1
F	LUMIERE	303-W1-LED81-3000-120-T2-XX	FURNISHED WITH FIXTURE			VERIFY WITH ARCHITECT	BRACKET		VERIFY COLOR WITH ARCHITECT
X	SURE-LITES	LPX-7-DLVP	FURNISHED WITH FIXTURE			℄ 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, PARKER, DAYBRITE, AND COLUMBIA WILL BE CONSIDERED APPROVED EQUALS.

GENERAL NOTES

1. SERVICE TO PROJECT IS 277/480 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.

ELECTRICAL SYMBOLS

$(A)^1_a$	CEILING OUTLET – FIXTURE "A", CIRCUIT 1, SWITCH a.
	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.
GFCI	WALL OUTLET – DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT2095-GRY WITH PT6STR PLUG TAIL CONNECTOR.
WP GFCI	WALL OUTLET – DUPLEX OUTLET, 20A, 125V, GROUNDED, WEATHERPROOF, PASS & SEYMOUR PT2095-GRY WITH PT6STR PLUG TAIL CONNECTOR. INSTALL #WIUC10-CAGV WEATHERPROOF COVER. DEVICE SHALL BE LABELED AS "EXTRA DUTY".
	WALL OUTLET – SINGLE OUTLET, 30A, 125/250V, 4W, BY HUBBELL OR APPROVED EQUAL.
•	FLOOR OUTLET – CONDUIT STUB UP.
J	CEILING OUTLET – JUNCTION BOX.
J	WALL OUTLET – JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT.
$	SWITCH OUTLET – AC TYPE, SINGLE POLE, 20A, 120/277V, HUBBELL #1221 – GREY.("N" DENOTES NARROW)
$D	SWITCH OUTLET – FLUORESCENT DIMMER – LUTRON NOVA-T SERIES #NTF-103P.
$2	SWITCH OUTLET – AC TYPE, TWO POLE, 20A, 120/277V, HUBBELL #1222 – GREY.
$3	SWITCH OUTLET – AC TYPE, THREE WAY, 20A, 120/277V, HUBBELL #1223 – GREY.
$4	SWITCH OUTLET – AC TYPE, FOUR WAY, 20A, 120/277V, HUBBELL #1224 – GREY.
$M	SWITCH MANUAL MOTOR STARTER, SINGLE POLE WITH OVERLOAD PROTECTION.
$P	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.
E	EMPTY CONDUIT – 3/4".
	BRANCH CIRCUIT EXPOSED.
◦	CONDUIT RUN DOWN WALLS, CONCEALED
•	CONDUIT RUN UP WALLS, CONCEALED
5	MOTOR SHOWN 5hp (TYPICAL) OR 40 AMPS (TYPICAL).
f	EXHAUST FAN MOTOR – FRACTIONAL HORSEPOWER.
	MAGNETIC MOTOR STARTER.
	NON-FUSED DISCONNECT SWITCH. (RT – RAINTIGHT).
	FUSED DISCONNECT SWITCH.
A.F.F.	ABOVE FINISHED FLOOR.
VER.	VERIFY LOCATION.
N.E.C.	NATIONAL ELECTRICAL CODE.
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
WP	WEATHER PROOF
IG	ISOLATED GROUND
	FIRE ALARM – SMOKE DETECTOR – SEE SPEC.
H	FIRE ALARM – HEAT DETECTOR – SEE SPEC.
D	FIRE ALARM – DUCT DETECTOR – SEE SPEC.
F	FIRE ALARM – MANUAL PULL STATION – SEE SPEC.
F	FIRE ALARM – STROBE LIGHT – SEE SPEC.
S	FIRE ALARM – SPEAKER STROBE – SEE SPEC.
FACP	FIRE ALARM CONTROL PANEL – SEE SPEC.
$OR	LIGHTING CONTROL PANEL OVERRIDE SWITCH – DIGITA 5-1B
$MS	WALL SWITCH WITH BUILT IN MOTION SENSOR – COOPER #OSW-P-0451-W WITH WALL PLATE

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 NFPA-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.

COLOR CODE FOR ELECTRICAL WIRING

1. 120/208 V, 60Hz, 3 PHASE, 4 WIRE SYSTEM
   PHASE A-BLACK
   B-RED
   C-BLUE
   N-WHITE
2. 277/480 V, 60Hz, 3 PHASE, 4 WIRE SYSTEM
   PHASE A-BROWN
   B-ORANGE
   C-YELLOW
   N-GRAY
3. GROUND-GREEN

COLOR CODE FOR JUNCTION BOXES

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

FUNCTION:	COLOR:
LIGHTING	BLUE
POWER	GREEN
FIRE ALARM	RED
MISC. AUXILIARIES (SOUND, ETC.)	BROWN

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

Project Number:
2387

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11, CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

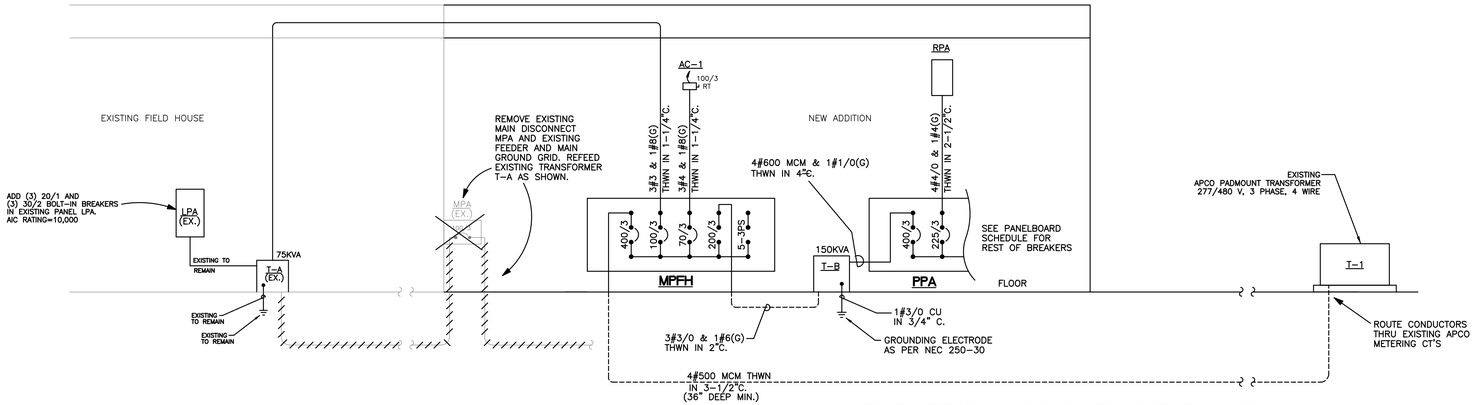
ALABAMA LICENSED 14817 PROFESSIONAL ENGINEER LANCE JUNKIN
9-19-23

SHEET TITLE:
SCHEDULES, SYMBOLS, AND NOTES

PROJ. MGR.: LANCE JUNKIN
DRAWN: SEC
DATE: SEPTEMBER 22, 2023
REVISIONS

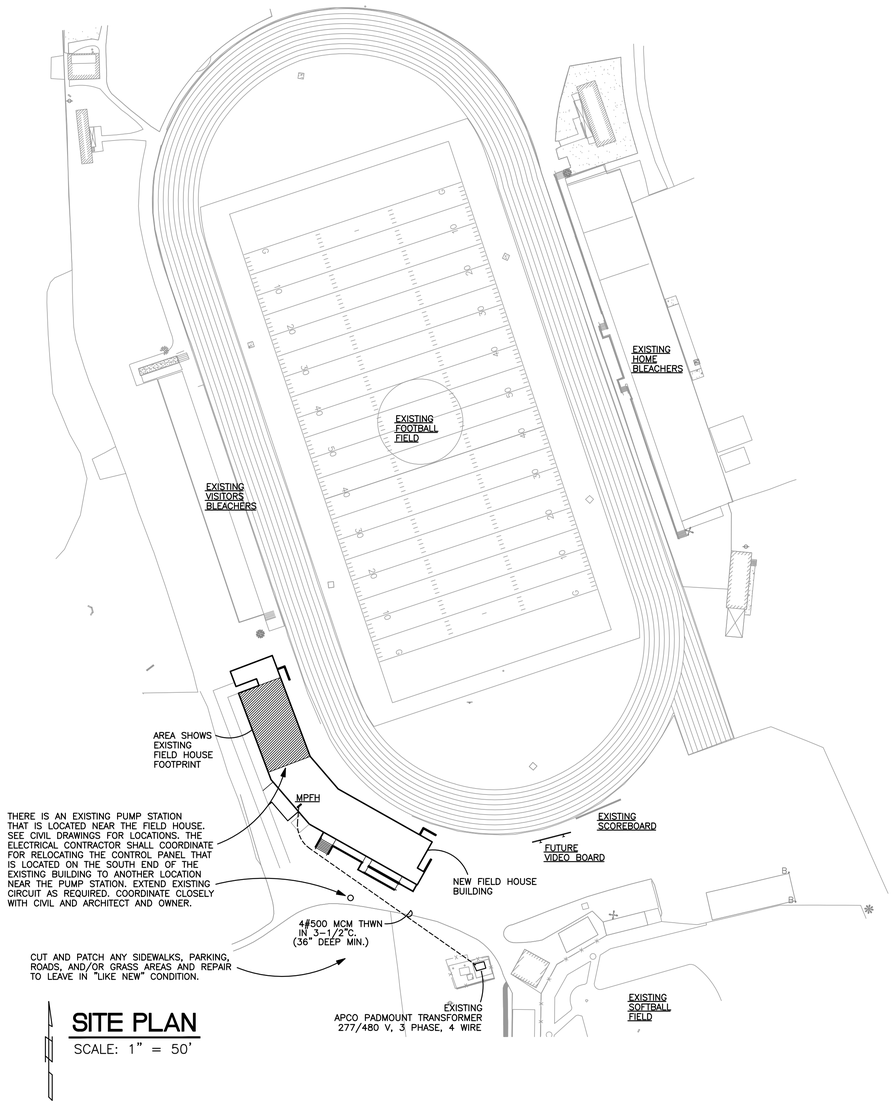
JOB NO. 23-63
SHEET NO:
E1.1
1 OF 5

0 1" 2"



ELECTRICAL SINGLE LINE DIAGRAM

N.T.S.



SITE PLAN

SCALE: 1" = 50'

PANELBOARD SCHEDULE

MARK	TYPE	MAINS			BRANCHES					LUG LOCATION	TYPE MOUNTING	AREA PANEL LOCATED	AVAILABLE FAULT CURRENT	REMARKS
		TYPE	AMPS	SERVICE	1 POLE	2 POLE	3 POLE	SPARES	SPACES					
MPFH	I-LINE	M/B	400	277/480V 3ø, 4W			1-70 1-100 1-200		5-3PS	BOTTOM	SURFACE	ELEC A106	12,000	SEE NOTES 1, 2, 3, & 4
PPA	I-LINE	M/B	400	120/208V 3ø, 4W	1-20	3-30 1-35	1-60 1-225	6-20/1	5-3PS	BOTTOM	SURFACE	ELEC A106	10,000	SEE NOTES 1, 2, & 3
RPA	NQOD	LUGS	225	120/208V 3ø, 4W	40-20			6-20/1	8-1PS	BOTTOM	SURFACE	ELEC A106	10,000	SEE NOTES 1, 2, & 3 54 SPACE PANEL

NOTES:
1. ALL PANELBOARDS SHALL BE CAPABLE OF WITHSTANDING AND INTERRUPTING THE AVAILABLE FAULT CURRENTS AS LISTED ABOVE.
2. ALL PANELBOARDS SHALL HAVE MICARTA LABELS SHOWING PANELBOARD DESIGNATION, AND OPERATING VOLTAGE. I-LINE PANELBOARDS SHALL ALSO HAVE MICARTA LABELS AT EACH BREAKER.
3. NO SERIES RATING WILL BE ALLOWED ON ANY PANELBOARDS.
4. SHALL BE RATED FOR SERVICE ENTRANCE EQUIPMENT.

PANELBOARD NOTES:
1. MANUFACTURER OF SWITCHBOARDS AND/OR PANELBOARDS SHALL PERFORM FAULT CURRENT CALCULATIONS, COORDINATION STUDY, AND ARC FLASH HAZARD ANALYSIS, AND LABEL ALL SWITCHBOARDS AND/OR PANELBOARDS, IN ACCORDANCE WITH NFPA 70E-2009 (ARTICLE 130) AND NFPA 70-2008 (ARTICLE 110.16).
2. CONTRACTOR SHALL FIELD MARK ELECTRICAL SERVICE EQUIPMENT WITH A CONSPICUOUS AND PERMANENT LABEL THAT INDICATES THE AVAILABLE FAULT CURRENT PER NEC 110.24.
3. CONTRACTOR SHALL FIELD MARK ELECTRICAL PANELS WITH A CONSPICUOUS AND PERMANENT LABEL THAT INDICATES WHERE PANELS ARE FED FROM PER NEC 408.4(B).

TRANSFORMER SCHEDULE

MARK	SIZE	PRIMARY	SECONDARY	MANUFACTURER	CATALOG NUMBER	REMARKS
T-B	150 KVA	480V 3ø DELTA	120/208V 3ø, 4W, WYE	SQUARE D	150T3H	SEE NOTE 1

NOTES:
1. BOND TRANSFORMER LOWSIDE NEUTRAL TO THE TRANSFORMER CASE, TO THE "INCOMING" AND "OUTGOING" GROUND WIRES, AND TO GROUNDING ELECTRODE (AS PER NEC 250-30) AT EACH TRANSFORMER, USING #3/0 CU.

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Engineer:
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Alabama Reg. 14817

Project Number:
2387

LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11, CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

ALABAMA LICENSED Jeffrey Lance Junkin 14817 PROFESSIONAL ENGINEER
9-19-23

SHEET TITLE:
SITE PLAN AND
SINGLE LINE DIAGRAM

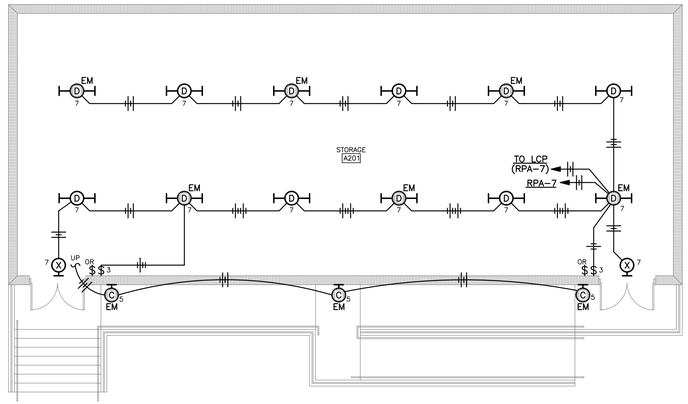
PROJ. MGR.: LANCE JUNKIN
DRAWN: SEC
DATE: SEPTEMBER 22, 2023
REVISIONS

JOB NO. 23-63
SHEET NO:
E2.1
2 OF 5

0 1" 2"

RELAY PANEL LCP			
R	PANEL	CIRCUIT	PROGRAM MODE
1	RPA	1	NORMAL DAY-TO-DAY
2	RPA	3	NORMAL DAY-TO-DAY
3	RPA	5	EXTERIOR DUSK TO DAWN
4	RPA	6	EXTERIOR DUSK TO MIDN.
5	RPA	7	NORMAL DAY-TO-DAY
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
COOPER GREENGATE RELAY CABINET (NETWORKABLE) CONTROLKEEPER 16 (CKT16) WITH 16 RELAYS			

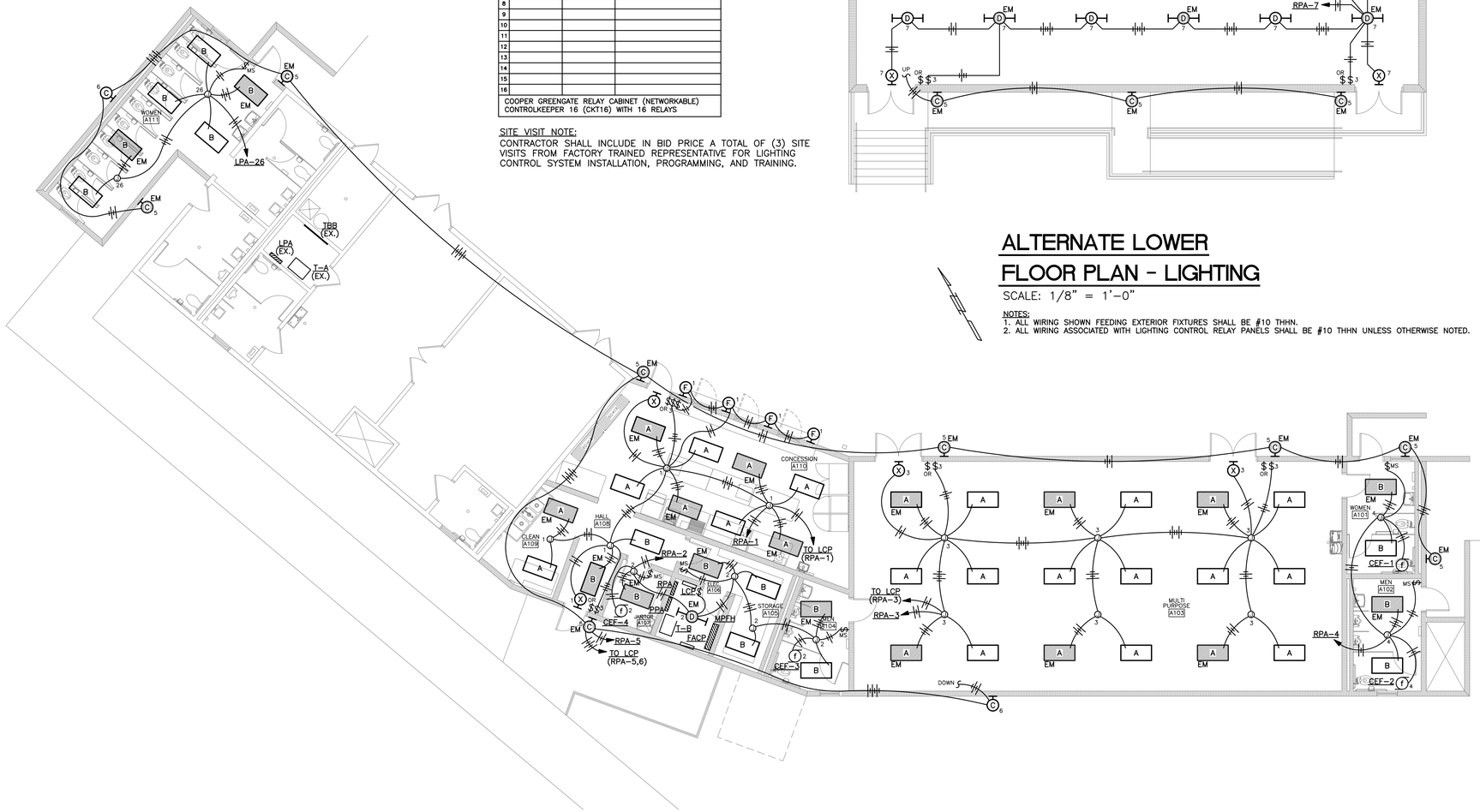
SITE VISIT NOTE:
CONTRACTOR SHALL INCLUDE IN BID PRICE A TOTAL OF (3) SITE VISITS FROM FACTORY TRAINED REPRESENTATIVE FOR LIGHTING CONTROL SYSTEM INSTALLATION, PROGRAMMING, AND TRAINING.



ALTERNATE LOWER FLOOR PLAN - LIGHTING

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

NOTES:
1. ALL WIRING SHOWN FEEDING EXTERIOR FIXTURES SHALL BE #10 THHN.
2. ALL WIRING ASSOCIATED WITH LIGHTING CONTROL RELAY PANELS SHALL BE #10 THHN UNLESS OTHERWISE NOTED.



FLOOR PLAN - LIGHTING

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

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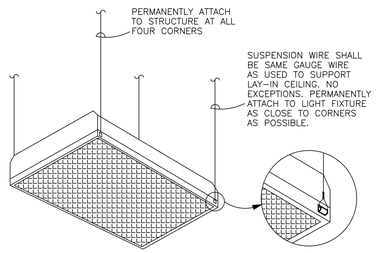

DETAIL - LIGHT FIXTURE SUPPORT

N.T.S.

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SHELBY COUNTY BOARD OF EDUCATION

ALABAMA LICENSED PROFESSIONAL ENGINEER JEFFREY LANCE JUNKIN
No. 14817
9-19-23

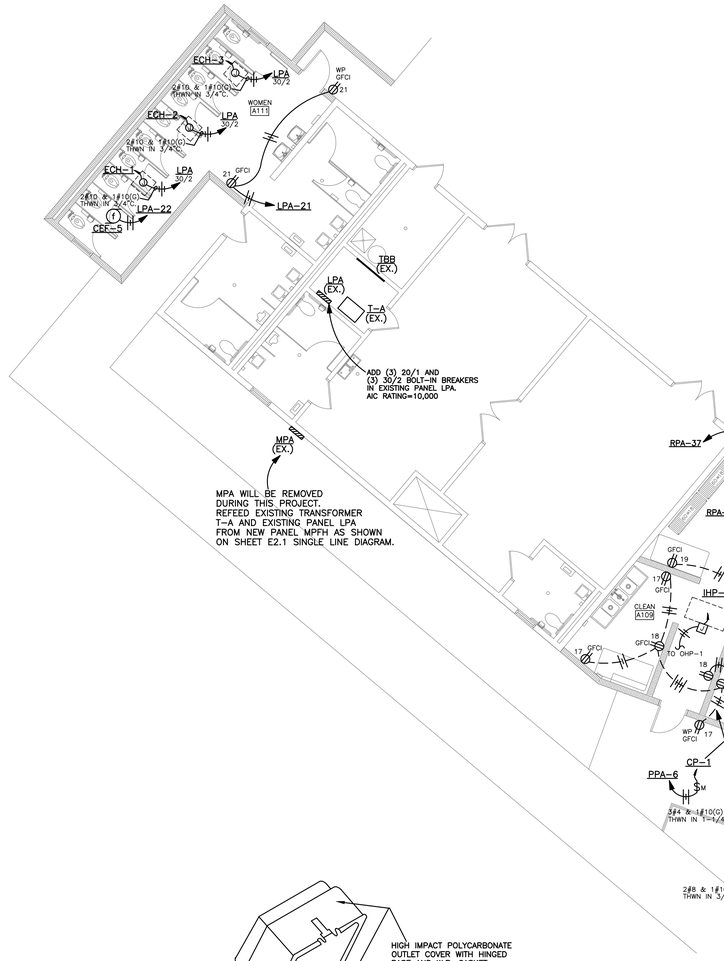
SHEET TITLE:
FLOOR PLAN - LIGHTING

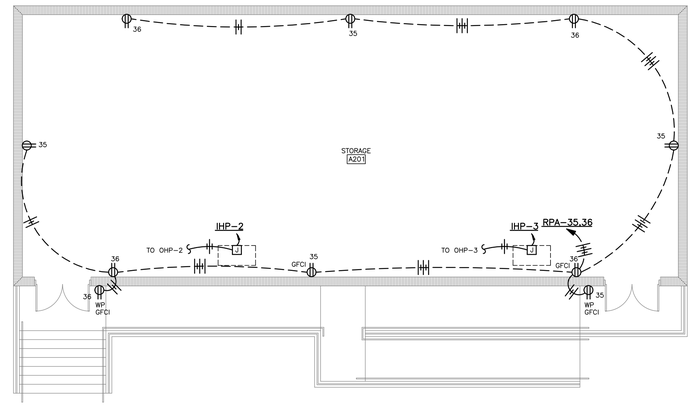
PROJ. MGR.:	LANCE JUNKIN
DRAWN:	SEC
DATE:	SEPTEMBER 22, 2023
REVISIONS	

JOB NO. 23-63

SHEET NO:
E3.1
3 OF 5

0 1" 2"

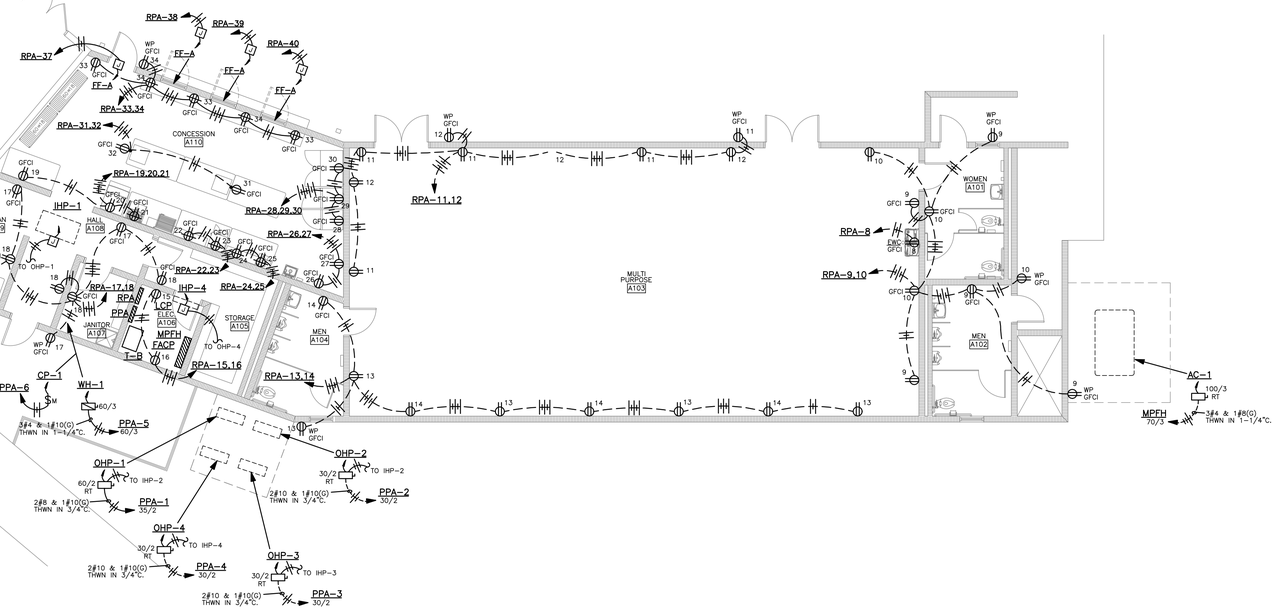




ALTERNATE LOWER FLOOR PLAN - POWER

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

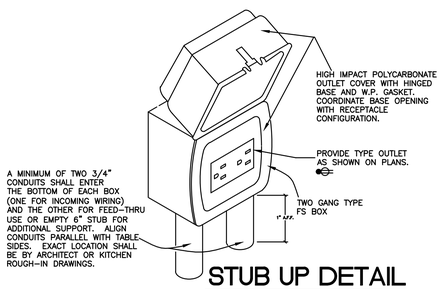
NOTES:
1. ALL BRANCH CIRCUIT HOME RUNS THAT EXCEED 100' IN LENGTH SHALL BE #10 THHN.



FLOOR PLAN - POWER

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

NOTES:
1. 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).
2. COORDINATE INSTALLATION OF OUTLETS CLOSELY WITH FURNITURE SUPPLIER.
3. ALL BRANCH CIRCUIT HOME RUNS THAT EXCEED 100' IN LENGTH SHALL BE #10 THHN.



STUB UP DETAIL

N.T.S.

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Engineer:
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Alabama Reg. 14817

Project Number:
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LATHAN ARCHITECTS

ADDITION TO FIELDHOUSE FOR
CHELSEA HIGH SCHOOL FOOTBALL
10510 COUNTY ROAD 11, CHELSEA, ALABAMA 35043
SHELBY COUNTY BOARD OF EDUCATION

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 14817 JAMES LANCE JUNKIN
9-19-23

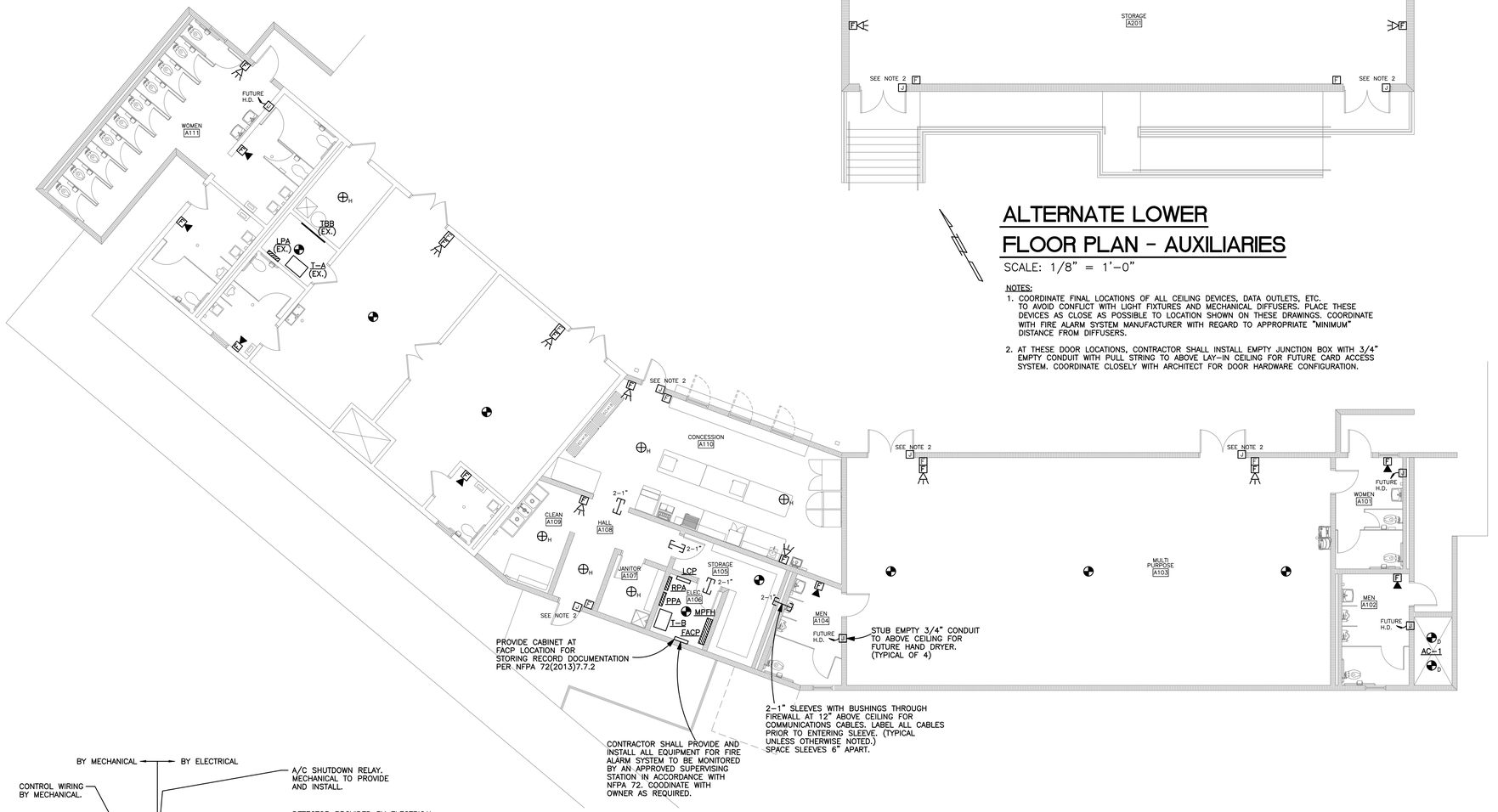
SHEET TITLE:
FLOOR PLAN - POWER

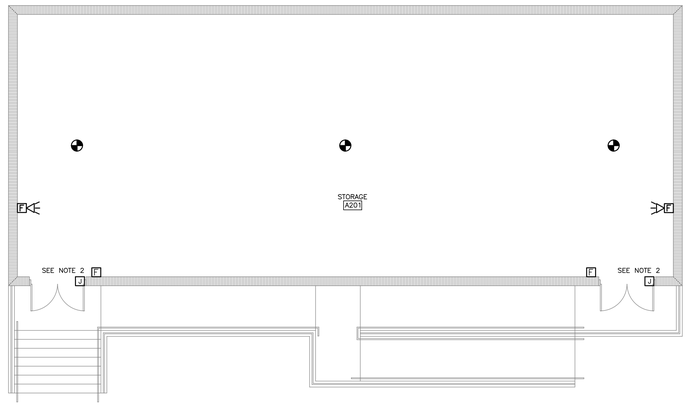
PROJ. MGR.:	LANCE JUNKIN
DRAWN:	SEC
DATE:	SEPTEMBER 22, 2023
REVISIONS	

JOB NO. 23-63

SHEET NO:
E4.1
4 OF 5

0 1" 2"

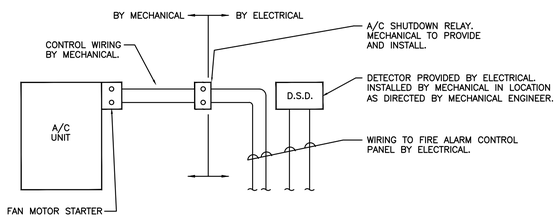




ALTERNATE LOWER FLOOR PLAN - AUXILIARIES

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

NOTES:
1. COORDINATE FINAL LOCATIONS OF ALL CEILING DEVICES, DATA OUTLETS, ETC. TO AVOID CONFLICT WITH LIGHT FIXTURES AND MECHANICAL DIFFUSERS. 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.
2. AT THESE DOOR LOCATIONS, CONTRACTOR SHALL INSTALL EMPTY JUNCTION BOX WITH 3/4" EMPTY CONDUIT WITH PULL STRING TO ABOVE LAY-IN CEILING FOR FUTURE CARD ACCESS SYSTEM. COORDINATE CLOSELY WITH ARCHITECT FOR DOOR HARDWARE CONFIGURATION.



DETAIL - DUCT SMOKE DETECTOR CONNECTION

N.T.S.

FLOOR PLAN - AUXILIARIES

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

NOTES:
1. COORDINATE FINAL LOCATIONS OF ALL CEILING DEVICES, DATA OUTLETS, ETC. TO AVOID CONFLICT WITH LIGHT FIXTURES AND MECHANICAL DIFFUSERS. 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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ALABAMA LICENSED PROFESSIONAL ENGINEER JEFFREY LANCE JUNKIN 14817
9-19-23

SHEET TITLE:
FLOOR PLAN - AUXILIARIES

PROJ. MGR.:	LANCE JUNKIN
DRAWN:	SEC
DATE:	SEPTEMBER 22, 2023
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JOB NO. 23-63

SHEET NO:
E5.1
5 OF 5

0 1" 2"