NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, ALABAMA 35173
TRUSSVILLE CITY BOARD OF EDUCATION

OWNER TRUSSVILLE CITY BOARD OF EDUCATION
476 MAIN STREET
TRUSSVILLE, ALABAMA 35173

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

LANDSCAPE HNP LANDSCAPE ARCHITECTURE
1914 28TH AVENUE SOUTH
BIRMINGHAM, ALABAMA 35209

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 - 110 TOTAL SHEETS)

GENERAL (3 SHEETS)

CIVIL DRAWINGS (17 SHEETS)

LANDSCAPE DRAWINGS (13 SHEETS)

ARCHITECTURAL DRAWINGS (33 SHEETS)

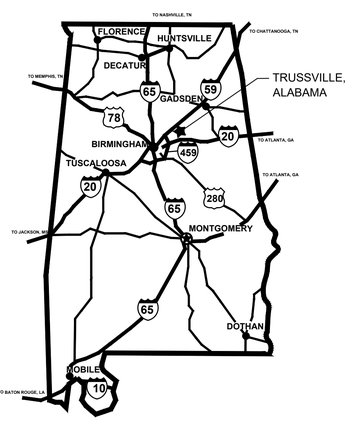
ARCHITECTURAL CONT'D

STRUCTURAL DRAWINGS (19 SHEETS)

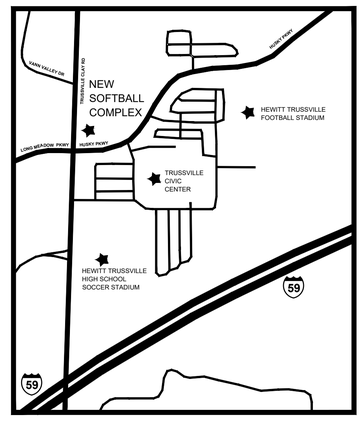
PLUMBING DRAWINGS (5 SHEETS)

MECHANICAL DRAWINGS (11 SHEETS)

ELECTRICAL DRAWINGS (9 SHEETS)



AREA MAP
STATE OF ALABAMA



VICINITY MAP
TRUSSVILLE, ALABAMA

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

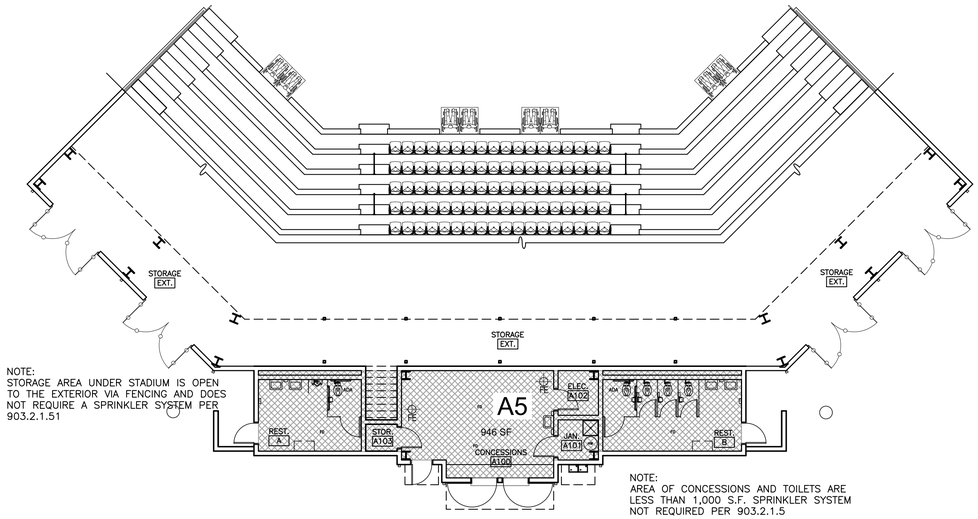
STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

SHEET TITLE:
TITLE AND INDEX

PROJ. MGR.: R.VERNON
DRAWN: TSS
hdr
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
T1
1 OF 3

0 1" 2"



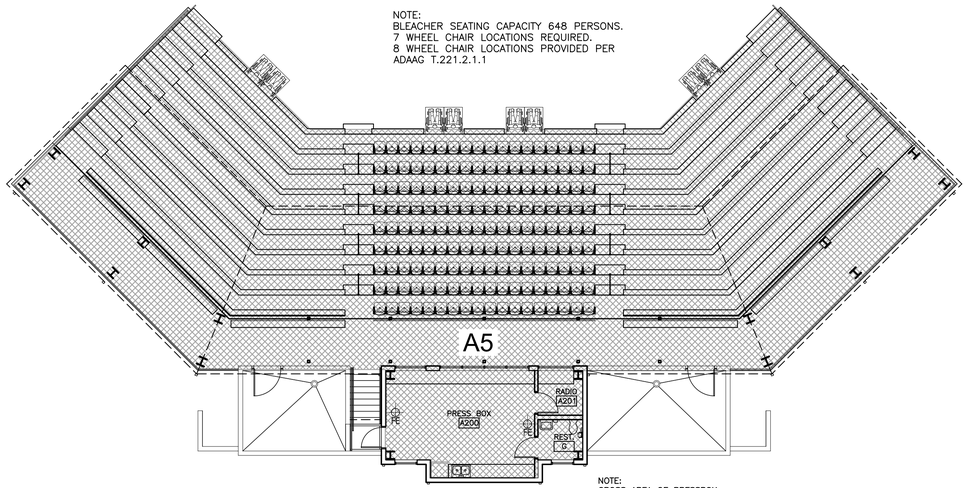
NOTE:
STORAGE AREA UNDER STADIUM IS OPEN TO THE EXTERIOR VIA FENCING AND DOES NOT REQUIRE A SPRINKLER SYSTEM PER 903.2.1.51

NOTE:
AREA OF CONCESSIONS AND TOILETS ARE LESS THAN 1,000 S.F. SPRINKLER SYSTEM NOT REQUIRED PER 903.2.1.5

1 LOWER LEVEL PRESS BOX LIFE SAFETY PLAN

3/32" = 1'-0"

NOTE:
BLEACHER SEATING CAPACITY 648 PERSONS.
7 WHEEL CHAIR LOCATIONS REQUIRED.
8 WHEEL CHAIR LOCATIONS PROVIDED PER ADAAG T.221.2.1.1



NOTE:
AREA OF PRESSBOX IS LESS THAN 1,000 S.F. SPRINKLER SYSTEM NOT REQUIRED PER 903.2.1.5

NOTE:
GROSS AREA OF PRESSBOX IS 496 S.F. - PER THE 2010 ADA STANDARD SECTION 206.2.7 EXCEPTION (1) AN ACCESSIBLE ROUTE NOT REQUIRED.

2 UPPER LEVEL PRESS BOX LIFE SAFETY PLAN

3/32" = 1'-0"

2021 INTERNATIONAL BUILDING CODE RESEARCH STADIUM

OCCUPANCY CLASSIFICATION:	GROUP A5			
TYPE OF CONSTRUCTION :	TYPE IIB NS			
SEATING AREA:	4,888 S.F.			
CONCESSION/RESTROOMS AREA:	946 S.F.			
PRESSBOX AREA:	434 S.F.			
TABLE 504.4 ALLOWABLE NUMBER OF STORIES:	ALLOWABLE STORIES: UL	ACTUAL STORIES: 2		
TABLE 506.2 ALLOWABLE AREA:	AREA FACTOR: NS	UL		
TABLE 601 AND 705.5 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:	CONSTRUCTION TYPE:	IIB		
	STRUCTURAL FRAME:	0		
	BEARING WALLS:	0		
	T. 705.5 EXTERIOR:	< 5'	1hr	
		≥ 5'< 10'	1hr	
		≥ 10'< 30'	0	
		≥ 30'	0	
	INTERIOR:	0		
	NONBEARING WALLS:			
	T. 705.5 EXTERIOR:	< 5'	1hr	
		≥ 5'< 10'	1hr	
		≥ 10'< 30'	0	
		≥ 30'	0	
	INTERIOR:	0		
	FLOOR CONSTRUCTION:	0		
	ROOF CONSTRUCTION:	0		
TABLE 1020.2 CORRIDOR FIRE-RESISTANCE RATING PARTITIONS AND OPENING PROTECTIVES	GROUP A5 UNSPRINKLERED	1		

2021 INTERNATIONAL BUILDING CODE RESEARCH DUGOUTS

OCCUPANCY CLASSIFICATION:	GROUP A3			
TYPE OF CONSTRUCTION :	TYPE VB NS			
HOME DUGOUT AREA:	856 S.F.			
VISITOR DUGOUT AREA:	856 S.F.			
TABLE 504.4 ALLOWABLE NUMBER OF STORIES:	ALLOWABLE STORIES: 1	ACTUAL STORIES: 1		
TABLE 506.2 ALLOWABLE AREA:	AREA FACTOR: NS	6,000 S.F.		
TABLE 601 AND 705.5 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:	CONSTRUCTION TYPE:	VB		
	STRUCTURAL FRAME:	0		
	BEARING WALLS:	0		
	T. 705.5 EXTERIOR:	< 5'	1hr	
		≥ 5'< 10'	1hr	
		≥ 10'< 30'	0	
		≥ 30'	0	
	INTERIOR:	0		
	NONBEARING WALLS:			
	T. 705.5 EXTERIOR:	< 5'	1hr	
		≥ 5'< 10'	1hr	
		≥ 10'< 30'	0	
		≥ 30'	0	
	INTERIOR:	0		
	FLOOR CONSTRUCTION:	0		
	ROOF CONSTRUCTION:	0		
TABLE 1020.2 CORRIDOR FIRE-RESISTANCE RATING PARTITIONS AND OPENING PROTECTIVES	GROUP A3 UNSPRINKLERED	1		

OCCUPANCY LEGEND

A3	B	A5
GROUP A3	GROUP B	GROUP A5

DOOR/WINDOW RATING LEGEND

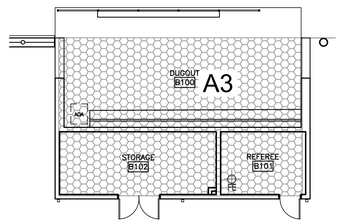
- (20) 20 MINUTE DOOR AND FRAME
- (45) 45 MINUTE DOOR AND FRAME
- (60) 60 MINUTE DOOR AND FRAME
- (90) 90 MINUTE DOOR AND FRAME
- (180) 180 MINUTE DOOR AND FRAME
- (90H) 90 MINUTE RATING AND TORNADO IMPACT RATED

WALL TYPE LEGEND

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

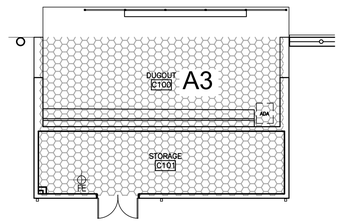
LIFE SAFETY NOTES

- FEC — FIRE EXTINGUISHER AND CABINET (PROVIDE FIRE RATED CABINETS IN RATED WALLS.)
- PE — FIRE EXTINGUISHER
- PE(K) — K-TYPE FIRE EXTINGUISHER
- EXIT SIGN — DIRECTION
- ACCESSIBLE
- EXIT——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
- COORDINATE W/ ELECTRICAL & MECHANICAL AND PROVIDE CONCRETE EQUIPMENT PAD AS REQUIRED
- HE - HORIZONTAL EXIT
- FB - FIRE BARRIER
- FP - FIRE PARTITION
- FW - FIRE WALL



3 HOME DUGOUT LIFE SAFETY PLAN

3/32" = 1'-0"



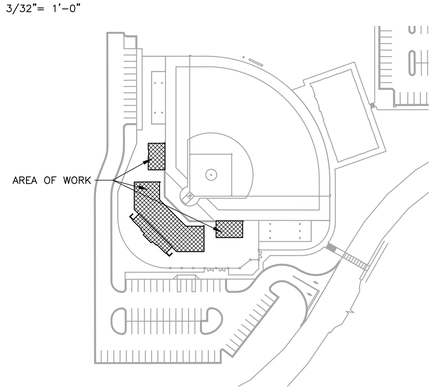
4 VISITOR DUGOUT LIFE SAFETY PLAN

3/32"= 1'-0"

CHAPTER 29 - PLUMBING SYSTEMS

OCCUPANCY		WATERCLOSETS				LAVATORIES				DRINKING FOUNTAINS		SERVICE SINKS
USE	LOAD	RATIO	MALE	RATIO	FEMALE	RATIO	MALE	RATIO	FEMALE	RATIO	ALL	ALL
A3	23.28	1/125	.10	1/65	.19	1/200	.06	1/200	.06	1/500	.05	
A5	648	1/200 FIRST 1,500 1/250 NEXT 1,500. 1/500 REMAINDER	1.62	1/75 FIRST 1,520 1/125 NEXT 1,520. 1/175 REMAINDER	4.32	1/300	1.08	1/300	1.08	1/1000	.65	1
B	6.59	1/25 FIRST 50 1/50 REMAINDER EXCEEDING 50.	.13	1/25 FIRST 50 1/50 REMAINDER EXCEEDING 50.	.13	1/40 FIRST 80 1/80 EXCEED 80.	.08	1/40 FIRST 80 1/80 EXCEED 80.	.08	1/100	.07	
S1,S2	.66	1/100	0	1/100	0	1/100	0	1/100	0	1/1000	0	
REQUIRED TOTALS			1.85		4.64		1.22		1.22		.72	1
PROVIDED TOTALS			2		5		2		3		2	1

NOTE:
THE PLUMBING COUNT IS BASED ON ACT #2019-388.



KEY PLAN

NTS

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TRUSSVILLE CITY BOARD OF EDUCATION

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

SHEET TITLE:
LIFE SAFETY PLANS

PROJ. MGR.: R.VERNON
DRAWN: TSS
hdr
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
LS1.1
2 OF 3

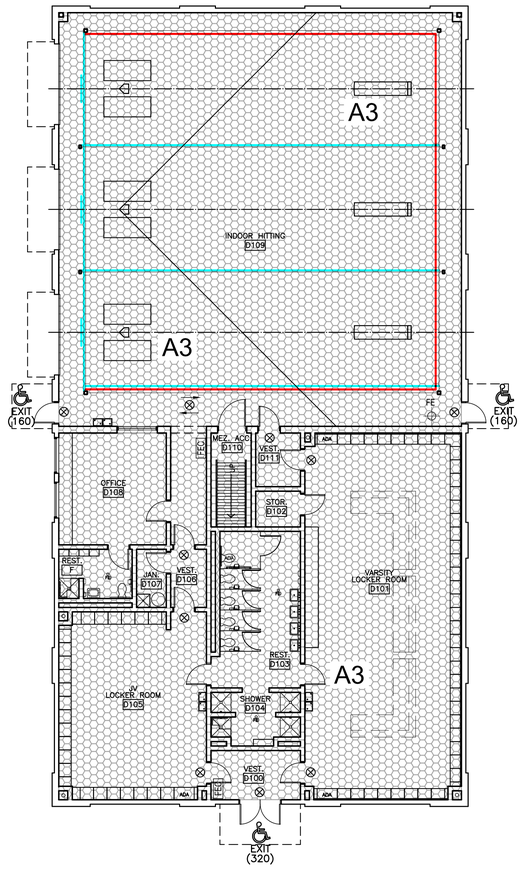
0 1" 2"

CHAPTER 29 - PLUMBING SYSTEMS

OCCUPANCY		WATERCLOSETS				LAVATORIES				DRINKING FOUNTAINS		SERVICE SINKS
USE	LOAD	RATIO	MALE	RATIO	FEMALE	RATIO	MALE	RATIO	FEMALE	RATIO	ALL	ALL
A3	121,84	1/125	.49	1/65	.94	1/200	.30	1/200	.30	1/500	.24	
B	1.79	1/25 FIRST 50 1/50 REMAINDER EXCEEDING 50.	.04	1/25 FIRST 50 1/50 REMAINDER EXCEEDING 50.	.04	1/40 FIRST 80 1/80 EXCEED 80.	.02	1/40 FIRST 80 1/80 EXCEED 80.	.02	1/100	.02	
REQUIRED TOTALS			.53		.98		.32		.32		.26	1
PROVIDED TOTALS			1		5		1		4		4	1

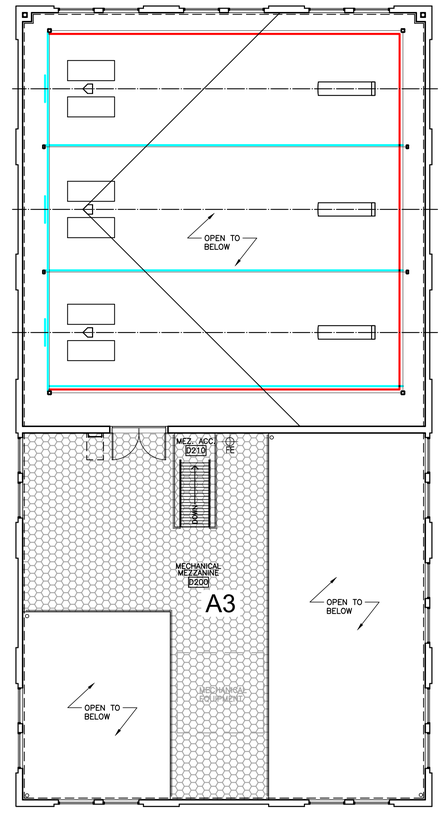
2021 INTERNATIONAL BUILDING CODE RESEARCH
LOCKER ROOM/ HITTING FACILITY

OCCUPANCY CLASSIFICATION:	GROUP A3		
TYPE OF CONSTRUCTION :	TYPE IIB NS		
	7,043 S.F.		
MECHANICAL MEZZANINE AREA:	1,388 S.F.		
PRESSBOX AREA:			
TABLE 504.4 ALLOWABLE NUMBER OF STORIES:	ALLOWABLE STORIES: 2	ACTUAL STORIES: 2	
TABLE 506.2 ALLOWABLE AREA:	AREA FACTOR: NS	9,500	
TABLE 601 AND 705.5 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:	CONSTRUCTION TYPE:	IIB	
	STRUCTURAL FRAME:	0	
	BEARING WALLS:	0	
	T. 705.5 EXTERIOR:	< 5'	1hr
		≥ 5'< 10'	1hr
		≥ 10'< 30'	0
		≥ 30'	0
	INTERIOR:	0	
	NONBEARING WALLS:		
	T. 705.5 EXTERIOR:	< 5'	1hr
		≥ 5'< 10'	1hr
		≥ 10'< 30'	0
		≥ 30'	0
	INTERIOR:	0	
	FLOOR CONSTRUCTION:	0	
	ROOF CONSTRUCTION:	0	
TABLE 1020.2 CORRIDOR FIRE-RESISTANCE RATING PARTITIONS AND OPENING PROTECTIVES	GROUP A3 UNSPRINKLERED	1	



1 LOWER LEVEL LOCKER ROOM/ HITTING FACILITY - LIFE SAFETY PLAN

3/32" = 1'-0"



2 UPPER LEVEL MEZZANINE LOCKER ROOM/ HITTING FACILITY - LIFE SAFETY PLAN

3/32" = 1'-0"

OCCUPANCY LEGEND

A3	B	A5
GROUP A3	GROUP B	GROUP A5

DOOR/WINDOW RATING LEGEND

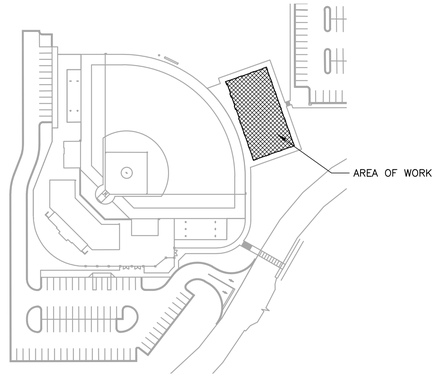
- (20) 20 MINUTE DOOR AND FRAME
- (45) 45 MINUTE DOOR AND FRAME
- (60) 60 MINUTE DOOR AND FRAME
- (90) 90 MINUTE DOOR AND FRAME
- (180) 180 MINUTE DOOR AND FRAME
- (90W) 90 MINUTE RATING AND TORNADO IMPACT RATED

WALL TYPE LEGEND

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

LIFE SAFETY NOTES

- FEC — FIRE EXTINGUISHER AND CABINET (PROVIDE FIRE RATED CABINETS IN RATED WALLS.)
- FE — FIRE EXTINGUISHER
- FE(K) — K-TYPE FIRE EXTINGUISHER
- EXIT SIGN DIRECTION
- ACCESSIBLE
- EXIT
- 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
- HE - HORIZONTAL EXIT
- FB - FIRE BARRIER
- FP - FIRE PARTITION
- FW - FIRE WALL



KEY PLAN

NTS

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STATE OF ALABAMA
No. 3365
RICK N. LATHAN
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SHEET TITLE:
LIFE SAFETY PLANS

PROJ. MGR.: R.VERNON
DRAWN: TSS
hdr
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
LS1.2
3 OF 3

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 ARRINGTON ENGINEERING & LAND SURVEYING, CO..
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 AND LANDSCAPE PLANS 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 1.5' 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. ALL STRIPING TO BE PER THE LATEST EDITION OF THE MUTCD UNLESS NOTED OTHERWISE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SITE CONSTRUCTION TRAFFIC CONTROL PLAN AND OBTAINING ANY REQUIRED APPROVALS FROM THE LOCAL JURISDICTIONAL AUTHORITY. THE SITE CONSTRUCTION TRAFFIC CONTROL PLAN SHALL TAKE INTO ACCOUNT THE ENTERING AND EXITING OF CONSTRUCTION TRAFFIC ONTO THE ROADWAY AND THE IMPACT TO THE FLOW OF TRAFFIC. THIS PLAN SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD. THIS SITE CONSTRUCTION TRAFFIC CONTROL PLAN SHALL BE IN ADDITION TO ANY TRAFFIC CONTROL PLAN PROVIDED IN THE PLAN SET FOR ROADWAY IMPROVEMENTS.
6. 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", MOISTURE CONDITIONED, AND RECOMPACTED, AS NEEDED TO ACHIEVE THE SPECIFIED DENSITY AND MOISTURE CONTENT LISTED BELOW, UNLESS OTHERWISE DETERMINED BY A GEOTECHNICAL ENGINEER.
5. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT PREPARED SUBGRADE AND RESTORE TO PROJECT SPECIFICATIONS IF DAMAGED OR COMPROMISED DUE TO INCLEMENT WEATHER AND/OR CONSTRUCTION TRAFFIC.
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[30, AND A MAXIMUM DRY DENSITY OF NO LESS THAN 100PCF AS DETERMINED BY ASTM D-698, STANDARD PROCTOR.
7. PLACE FILL MATERIAL IN 8" MAXIMUM LOOSE LIFTS AND COMPACT TO REQUIREMENTS LISTED BELOW.
8. 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.
9. FILL MATERIAL TO BE WITHIN ±2.0% OF OPTIMUM MOISTURE CONTENT AT THE TIME OF COMPACTION, UNLESS OTHERWISE DETERMINED BY A GEOTECHNICAL ENGINEER.
10. MINIMUM COMPACTION REQUIREMENTS ARE EXPRESSED BELOW AS A PERCENTAGE OF THE MATERIAL'S MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-698, STANDARD PROCTOR.

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

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

11. COMPACTION WITHIN LIMITED SPACES (I.E. MANHOLES, INLETS, UTILITY TRENCHES) SHOULD BE BACKFILLED AND COMPACTED SYSTEMATICALLY, AT THE DIRECTION OF THE ON-SITE GEOTECHNICAL ENGINEER. STONE BACKFILL SHALL BE INSTALLED IN 12" MAXIMUM LOOSE LIFTS AND COMPACTED WITH 6-8 PASSES OF A VIBRATORY COMPACTOR.
12. CLEARING LIMITS SHALL BE 5' OUTSIDE OF ALL PROPOSED GRADED AREAS OR NOT BEYOND THE PROPERTY LINES WHICHEVER IS LESS.
13. NO GRADING OFF-SITE OR IN ANY ROAD RIGHT-OF-WAY WITHOUT PROPER APPROVALS AND PRIOR NOTIFICATION.
14. COORDINATE THE SEQUENCING OF ALL GRADING OPERATIONS WITH THE EROSION CONTROL PLAN.
15. 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.
16. 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.
17. PROPOSED GRADES INDICATED ON THIS PLAN ARE TO FINISH GRADE. THE CONTRACTOR SHALL MAKE SUBGRADE ADJUSTMENTS FOR TOPSOIL, PAVING, BUILDING PAD, ETC.
18. 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.)
19. 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.
22. A GEOTECHNICAL REPORT HAS BEEN PREPARED BY TERRACON PROJECT NUMBER E1235230 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.
23. 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.
24. 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.

MODULAR WALL NOTES:

1. MODULAR RETAINING WALLS SHALL BE A TOTAL DESIGN BUILD BY THE CONTRACTOR. THE CONTRACTOR'S WALL DESIGNER/INSTALLER SHALL HAVE AT LEAST 10 YEARS OF EXPERIENCE IN THE DESIGN AND INSTALLATION OF SEGMENTAL RETAINING WALLS.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, INCLUDING WALL DETAILS AND DESIGN PARAMETERS, STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ALABAMA.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING A GEOTECHNICAL ENGINEER TO PERFORM SITE EXPLORATION TO GATHER INFORMATION CONCERNING SUBSURFACE SOILS TO BE USED IN THE DESIGN OF THE WALL. A WALL SPECIFIC GEOTECHNICAL REPORT/LETTER STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ALABAMA SHALL BE SUBMITTED ALONG WITH THE SHOP DRAWINGS.
4. WALL DESIGNER SHALL EVALUATE INTERNAL STABILITY, EXTERNAL STABILITY, AND OVERALL GLOBAL STABILITY FOR THE WALL DESIGN. SAFETY FACTORS FOR THE WALL DESIGN SHALL BE IN ACCORDANCE WITH NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA) DESIGN MANUAL FOR SEGMENTAL RETAINING WALLS.
5. CONTRACTOR SHALL ACCOUNT FOR ANY DRAINAGE CONDITIONS OCCURRING ABOVE THE WALL SUCH AS A FLUME OR SWALE TO ELIMINATE DRAINAGE RUNOFF OVER THE TOP OF THE WALL.

STORM DRAINAGE NOTES:

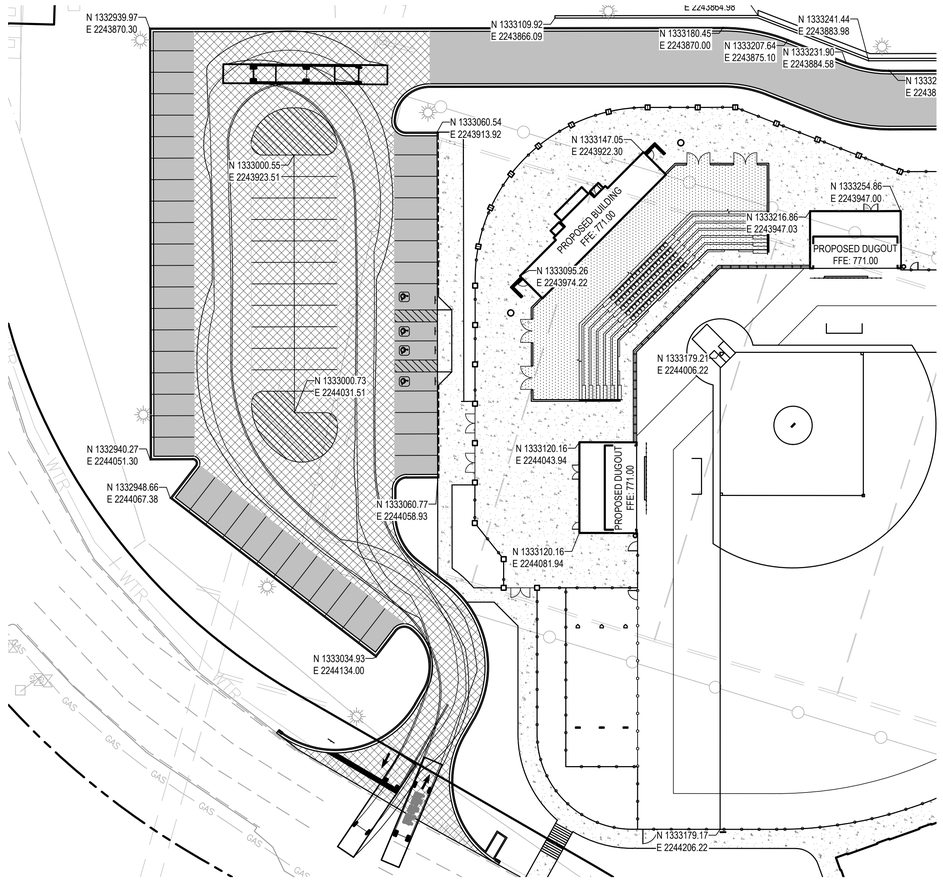
1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL STORM PIPE MATERIALS TO LBYD PRIOR TO INSTALLATION AND/OR FABRICATION.
2. ALL PROPOSED STORM INLETS (GRATES, CURB, YARD, AREA DRAINS) ARE TO BE LOCATED AT THE LOWPOINTS. GRADING SHALL BE TO DIRECT RUNOFF TO THESE INLETS. NOTIFY LBYD OF ANY DISCREPANCIES.
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 STORM PIPES 15" AND LESS SHALL BE SMOOTH LINED HIGH DENSITY POLYETHYLENE (HDPE) OR SCHEDULE 40 POLYVINYL CHLORIDE (PVC) WITH WATER-TIGHT JOINTS UNLESS OTHERWISE NOTED, INSTALLED PER MANUFACTURERS RECOMMENDATIONS. ALL STORM PIPES 18" AND GREATER SHALL BE CLASS 3 REINFORCED CONCRETE PIPE (RCP) BELL AND SPIGOT INSTALLED WITH WATERTIGHT JOINTS UNLESS OTHERWISE NOTED.
7. ALL STORM MANHOLES SHALL BE PRECAST CONE, RISER, AND BASE SECTIONS WITH GASKETED JOINTS MEETING ALDOT SPECIAL DRAWING # MH-621-2.
8. ALL BURIED JUNCTION BOXES SHALL BE PER ALDOT SPECIAL DRAWING # JB-620-B OR TB-620-C DEPENDING ON FILL HEIGHT.
9. CONTRACTOR SHALL PROVIDE CAST IRON DOWNSPOUT BOOTS, CLEANOUTS AND COLLECTOR LINES FROM ALL EXTERIOR DOWNSPOUTS TO CONNECT TO PRIMARY STORM DRAINAGE SYSTEM. COORDINATE WITH EXTERIOR ELEVATIONS, ROOF AND PLUMBING PLANS FOR DOWNSPOUT LOCATIONS. COORDINATE DOWNSPOUT MODEL NUMBER WITH THE ARCHITECT.
10. CONTRACTOR SHALL COORDINATE ROOF DRAIN COLLECTOR LINES, DOWNSPOUTS AND BOOTS WITH FOOTING ELEVATIONS ON THE STRUCTURAL PLANS PRIOR TO POURING FOOTINGS. TOP OF FOOTINGS SHALL BE A MINIMUM OF 3' BELOW GRADE AT ALL ROOF DRAIN DOWNSPOUT LOCATIONS TO ENSURE ADEQUATE COVER TO TRANSITION TO BELOW GRADE PIPING.
11. 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 A "NOTICE OF INTENT"(NOI) FROM ADEM. THE OWNER SHALL BE RESPONSIBLE FOR ALL MONITORING, INSPECTIONS, ETC. TO ENSURE THAT THE SITE IS AT ALL TIMES IN ACCORDANCE WITH ADEM RULES & REGULATIONS. DOCUMENTATION OF INSPECTIONS BY A Q.C.I. OR Q.C.P. SHALL BE MAINTAINED BY THE CONTRACTOR AND PROVIDED TO THE OWNER AT 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, VEHICLE WASH RACKS, SILT FENCING, STRAW AND RIP RAP CHECK DAMS, DIVERSION DITCHES, ETC. THESE ADDITIONAL MEASURES SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
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.
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. WATTLES OR SILT FENCING SHALL BE INSTALLED AT ALL INLETS UPON THE COMPLETION OF EACH INLET AS INSTALLED.
17. RIP RAP SHALL BE PLACED AT EACH HEADWALL IMMEDIATELY FOLLOWING CONSTRUCTION OF EACH HEADWALL.
18. 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.
19. 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.
20. GEOTEXTILE SHALL BE PLACED ON ALL DITCH BOTTOMS & 1' UP EACH SIDE. GEOTEXTILE SHALL BE NORTH AMERICAN GREEN SC150 OR APPROVED EQUAL UNLESS OTHERWISE NOTED ON PLANS. ALL GEOTEXTILES SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.

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 FIRE, DOMESTIC, AND IRRIGATION SERVICES IN ACCORDANCE WITH THE LOCAL UTILITY COMPANY AND FIRE DEPARTMENT'S REQUIREMENTS.
6. WATER MAINS 4 INCHES IN DIAMETER AND GREATER SHALL BE PVC C900(CL 200 DR-14) 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 DUCTILE IRON (CL. 350) 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. GAS SERVICE SHALL BE PER THE LOCAL UTILITY COMPANY'S REQUIREMENTS. INFORMATION SHOWN ON CIVIL DRAWINGS FOR REFERENCE ONLY. COORDINATE WITH MECHANICAL ENGINEER AND UTILITY COMPANY.
12. 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%.
13. 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.
14. 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.
15. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ELEVATIONS OF ALL AT-GRADE EXISTING AND PROPOSED STRUCTURES AND UTILITIES TO REMAIN (VALVE BOXES, MANHOLES, INLETS, VAULTS, ETC) TO MATCH PROPOSED FINISHED GRADES.
16. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TAMPER SWITCHES AND ASSOCIATED CONDUIT, WIRING, ETC ON FIRE SERVICE POST INDICATOR VALVES AND VALVES IN PIT MOUNTED FIRE BACKFLOW PREVENTOR ASSEMBLIES. COORDINATE WITH FIRE PROTECTION AND ELECTRICAL PLANS.
17. PROVIDE 4" PVC SCHEDULE 40 GRAVITY DRAIN LINE FROM ALL BELOW GRADE UTILITY VAULTS TO THE NEAREST STORM DRAINAGE INLET OR DAYLIGHT AT GRADE.



FIRE TRUCK ROUTING PLAN

LBYD, Inc.
Civil and Structural Engineers
880 Montclair Road
Suite 600
Birmingham, AL 35213
Main (205) 251-4500
PROJECT NO.
133212.001

LATHAN ARCHITECTS
LATHAN ▪ BRYANT ▪ CALMA

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 35177 — 05/13/24

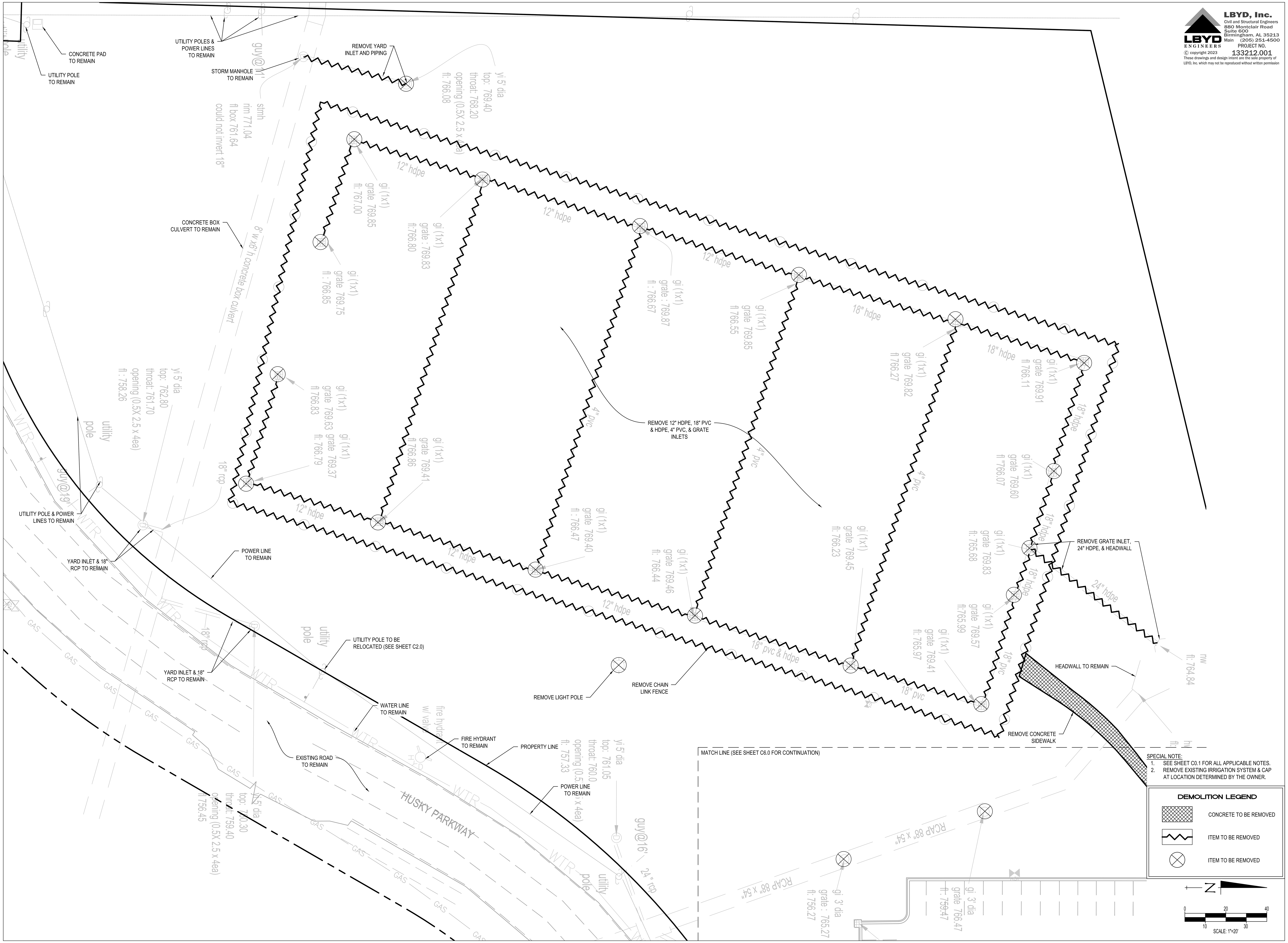
SHEET TITLE:
CIVIL NOTES

PROJ. MGR.: MTH
DRAWN: IJB
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72

SHEET NO:
C0.1
1 OF 17

0 1" 2"



SPECIAL NOTE:
1. SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.
2. REMOVE EXISTING IRRIGATION SYSTEM & CAP AT LOCATION DETERMINED BY THE OWNER.

DEMOLITION LEGEND

- CONCRETE TO BE REMOVED
- ITEM TO BE REMOVED
- ITEM TO BE REMOVED

SCALE: 1"=20'

LBYD, Inc.
Civil and Structural Engineers
880 Montclair Road Suite 600
Birmingham, AL 35213
Main (205) 251-4500
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6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA LICENSED No. 35177 PROFESSIONAL ENGINEER
03/13/24

SHEET TITLE:
SITE DEMOLITION PLAN

PROJ. MGR.: MTH
DRAWN: IJB
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
C1.0
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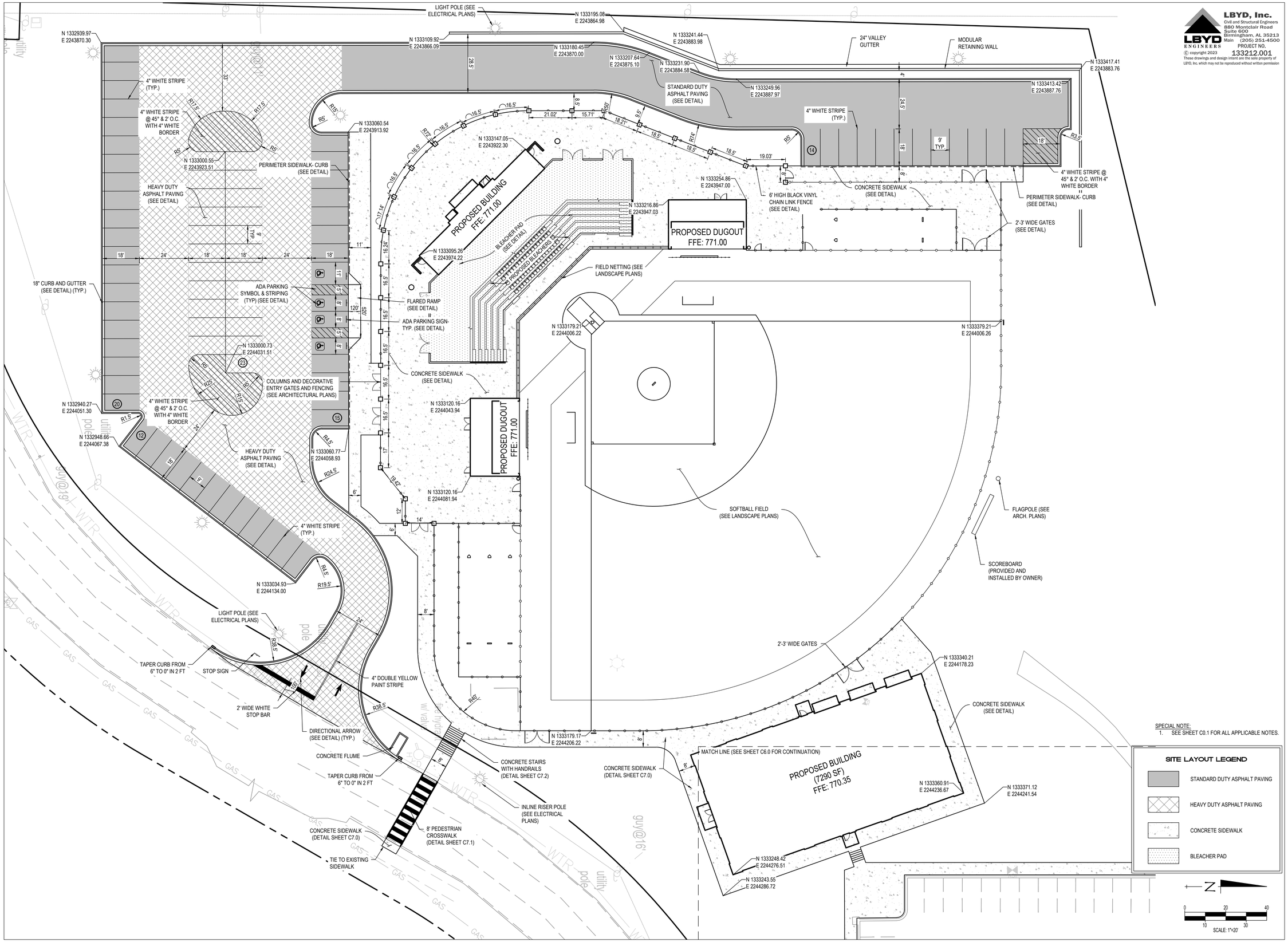

SPECIAL NOTE:
1. SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.

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Civil and Structural Engineers
880 Montclair Road
Suite 600
Birmingham, AL 35213
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TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA LICENSED No. 35177 PROFESSIONAL ENGINEER
03/13/24

SHEET TITLE:
SITE LAYOUT PLAN

PROJ. MGR.:	MTH
DRAWN:	IJB
DATE:	MARCH 13, 2024
REVISIONS	

JOB NO. 23-72

SHEET NO:
C2.0
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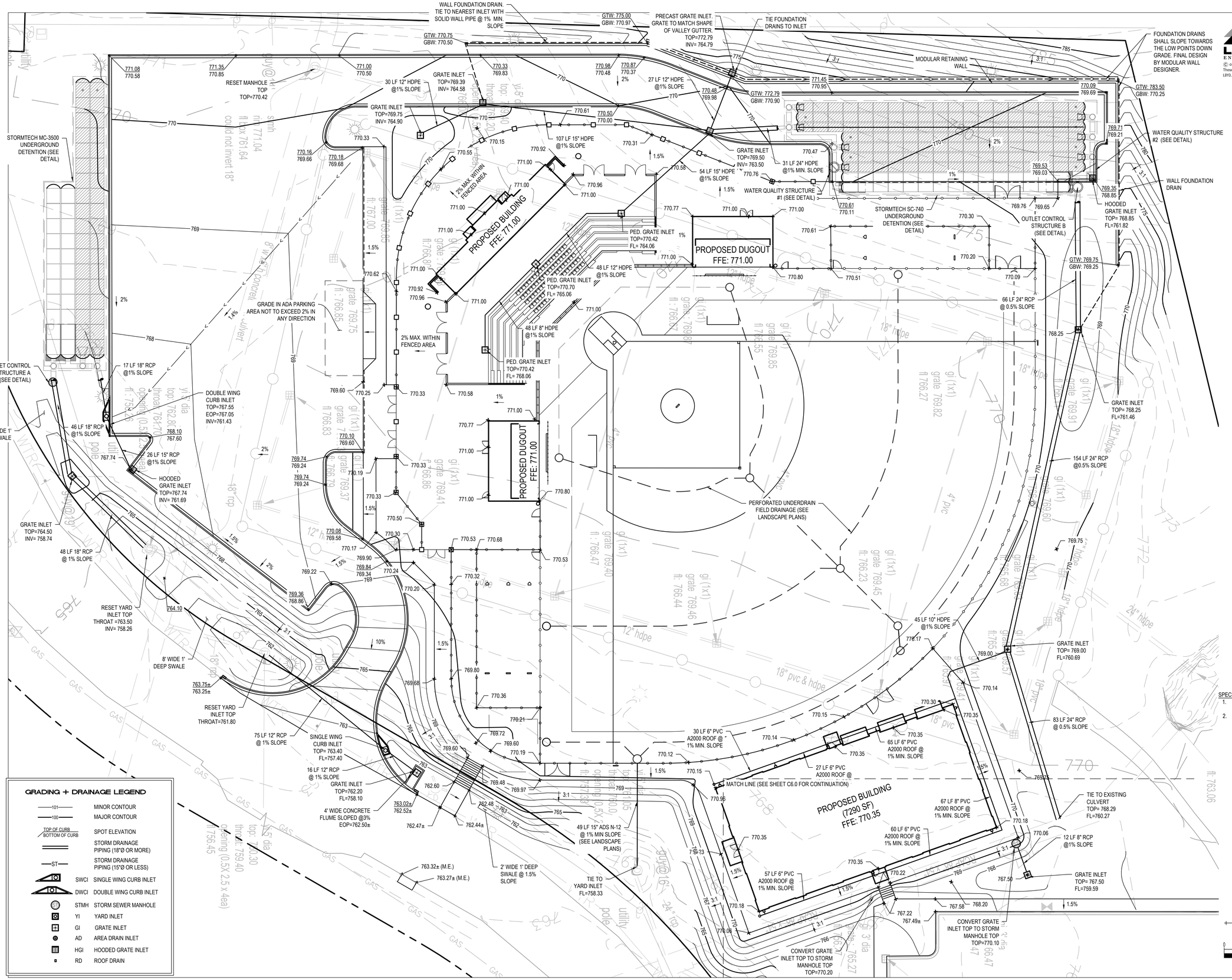

LBYD, Inc.
Civil and Structural Engineers
880 Montclair Road
Suite 600
Birmingham, AL 35213
Main (205) 251-4500
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TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA LICENSED PROFESSIONAL ENGINEER
No. 35177
09/13/24

SHEET TITLE:
GRADING & DRAINAGE PLAN

PROJ. MGR.:	MTH
DRAWN:	IJB
DATE:	MARCH 13, 2024
REVISIONS	

JOB NO. 23-72

SHEET NO:
C3.0
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Civil and Structural Engineers
880 Montclair Road
Suite 600
Birmingham, AL 35213
Main (205) 251-4500
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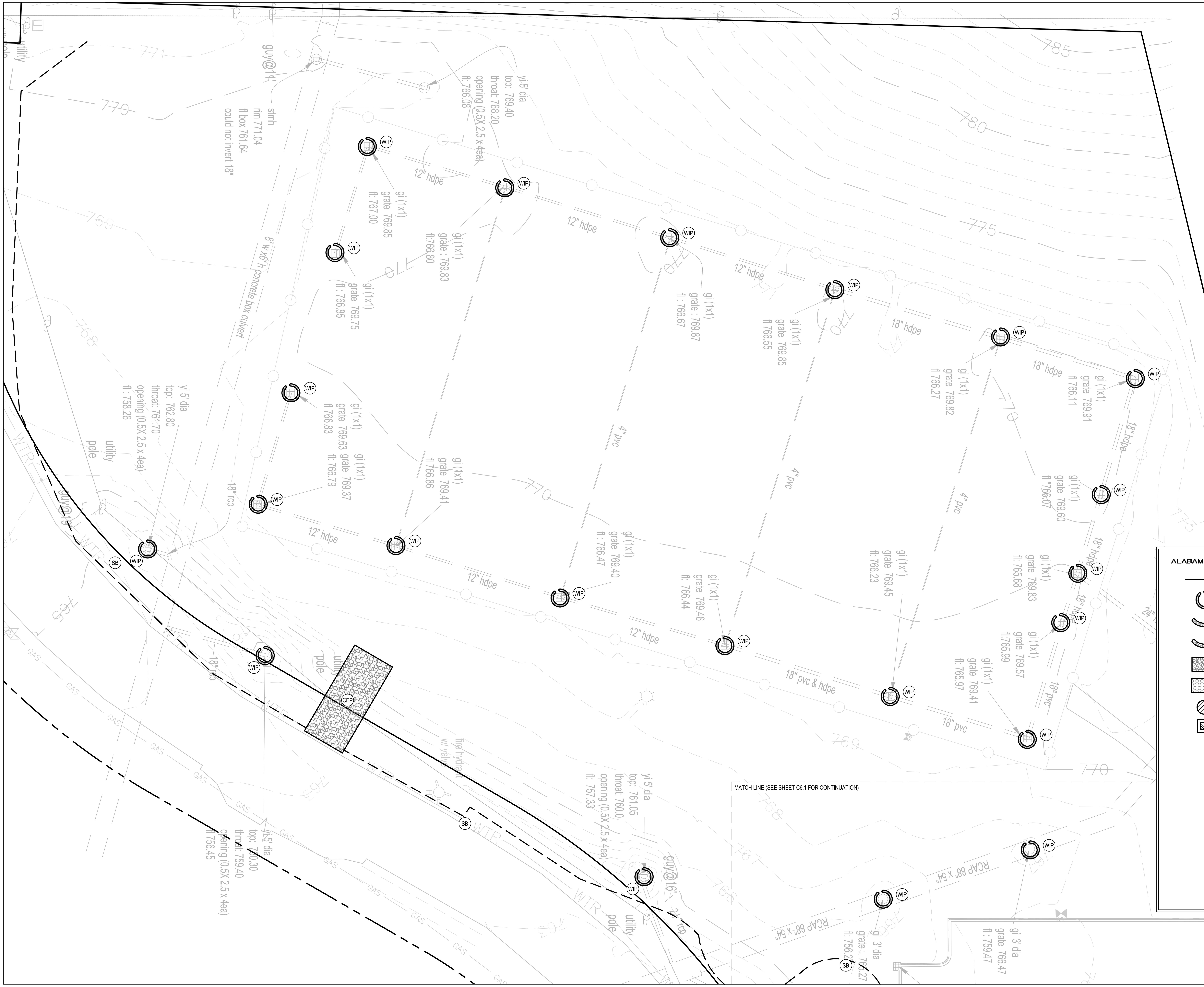

SPECIAL NOTE:
1. SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.

ALABAMA EROSION CONTROL LEGEND

SB	SILT FENCING
WIP	WATTLE INLET PROTECTION
CDW	WATTLE CHECK DAM
CdR	RIP RAP CHECK DAM
CEP	CONSTRUCTION EXIT PAD
OP	OUTLET PROTECTION
IP1	SILT SAVER INLET PROTECTION
IP2	DANDY SACK INLET PROTECTION
TSG	TOPSOIL
ECB	EROSION CONTROL BLANKET
DV	DIVERSION BERM
PS	PERMANENT SEEDING
TS	TEMPORARY SEEDING
SOD	SODDING
MU	MULCHING
SU	SURFACE ROUGHENING

SCALE: 1"=20'

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ALABAMA LICENSED No. 35177 PROFESSIONAL ENGINEER
03/13/24

SHEET TITLE:
EROSION CONTROL PLAN- INITIAL

PROJ. MGR.: MTH
DRAWN: IJB
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO: C4.0
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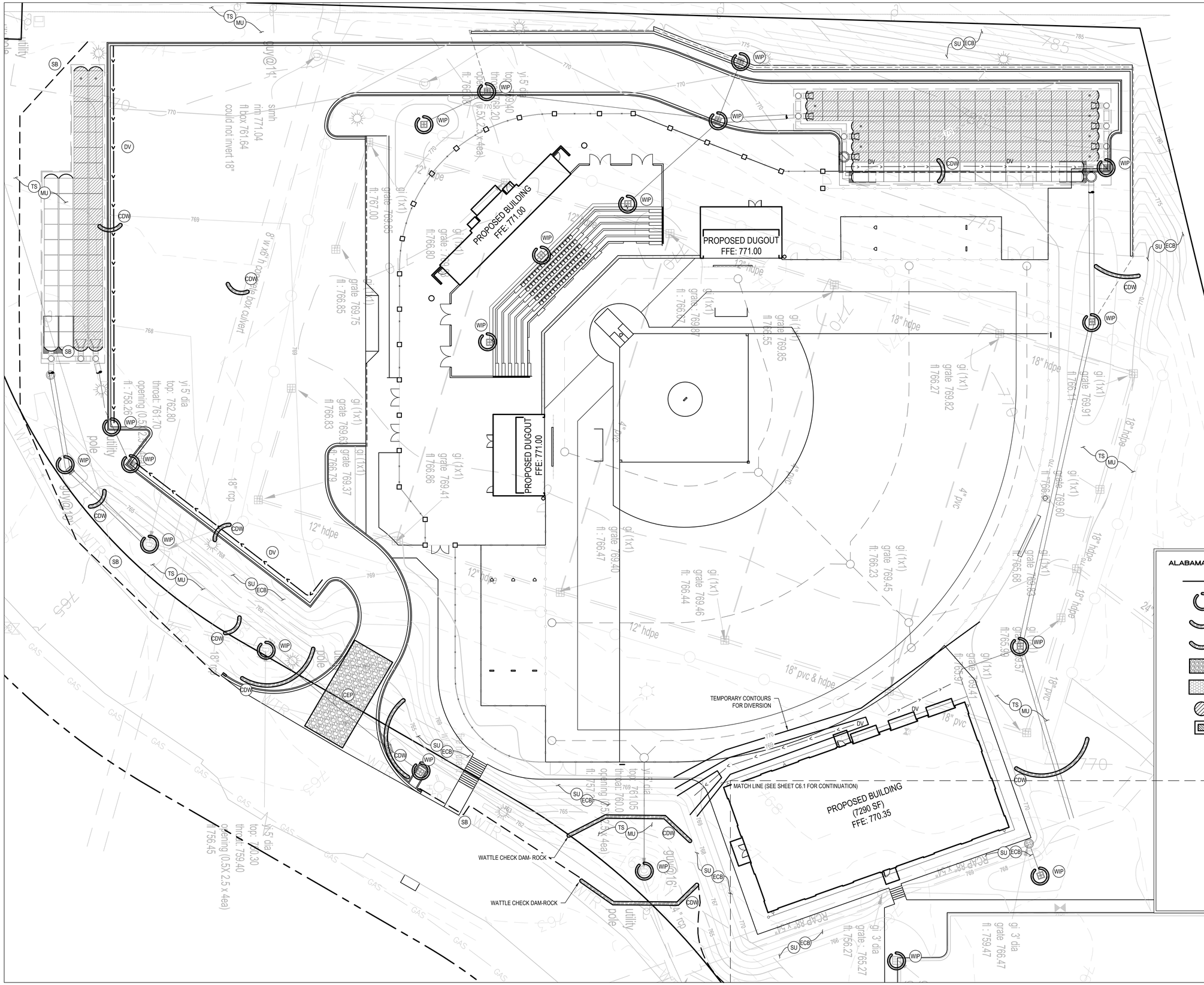

SPECIAL NOTE:

1. SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.
2. PROTECT ALL EXISTING INLETS AND DOWNSTREAM PIPING WHILE EARTHWORK IS ONGOING.

ALABAMA EROSION CONTROL LEGEND

SB	SILT FENCING
WIP	WATTLE INLET PROTECTION
CDW	WATTLE CHECK DAM
CdR	RIP RAP CHECK DAM
CEP	CONSTRUCTION EXIT PAD
OP	OUTLET PROTECTION
IP1	SILT SAVER INLET PROTECTION
IP2	DANDY SACK INLET PROTECTION
TSG	TOPSOIL
ECB	EROSION CONTROL BLANKET
DV	DIVERSION BERM
PS	PERMANENT SEEDING
TS	TEMPORARY SEEDING
SOD	SODDING
MU	MULCHING
SU	SURFACE ROUGHENING

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Civil and Structural Engineers
880 Montclair Road
Suite 600
Birmingham, AL 35213
Main (205) 251-4500
PROJECT NO.
133212.001

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TRUSSVILLE CITY SCHOOLS
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TRUSSVILLE CITY BOARD OF EDUCATION

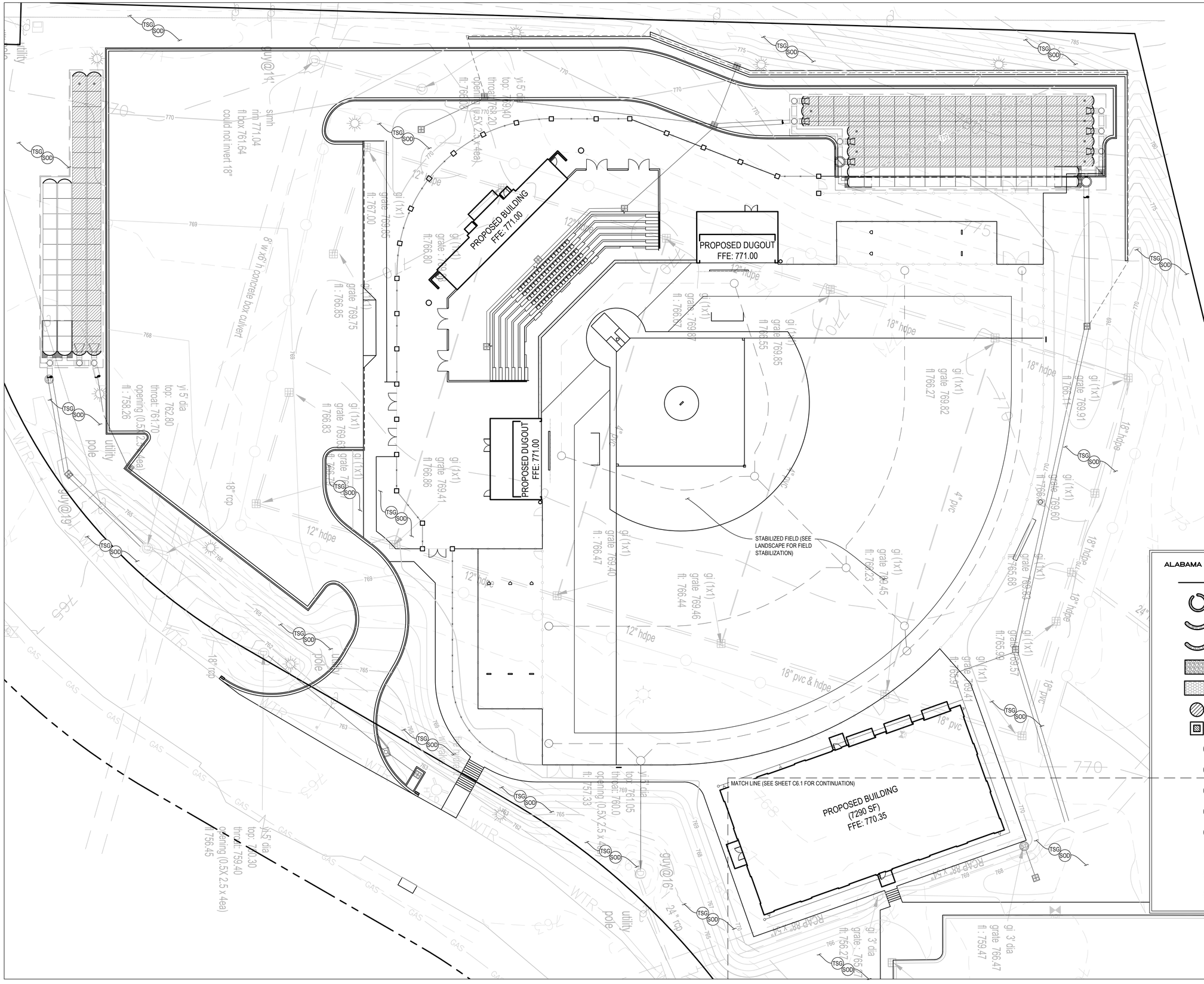
ALABAMA LICENSED No. 35177 PROFESSIONAL ENGINEER
03/13/24

SHEET TITLE:
EROSION CONTROL PLAN- INTERMEDIATE

PROJ. MGR.:	MTH
DRAWN:	IJB
DATE:	MARCH 13, 2024
REVISIONS	

JOB NO. 23-72

SHEET NO:
C4.1
6 OF 17



SPECIAL NOTE:
1. SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.
2. SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION REGARDING FINAL STABILIZATION MEASURES.

ALABAMA EROSION CONTROL LEGEND

	SB	SILT FENCING
	WIP	WATTLE INLET PROTECTION
	CDW	WATTLE CHECK DAM
	CdR	RIP RAP CHECK DAM
	CEP	CONSTRUCTION EXIT PAD
	OP	OUTLET PROTECTION
	IP1	SILT SAVER INLET PROTECTION
	IP2	DANDY SACK INLET PROTECTION
TSG		TOPSOIL
ECB		EROSION CONTROL BLANKET
DV		DIVERSION BERM
PS		PERMANENT SEEDING
TS		TEMPORARY SEEDING
SOD		SODDING
MU		MULCHING
SU		SURFACE ROUGHENING

N

0 10 20 30 40

SCALE: 1"=20'

LBYD, Inc.
Civil and Structural Engineers
880 Montclair Road
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Birmingham, AL 35213
Main (205) 251-4500

PROJECT NO.
133212.001

LATHAN ARCHITECTS
LATHAN ▪ BRYANT ▪ CALMA

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 35177 CIVIL
09/13/24

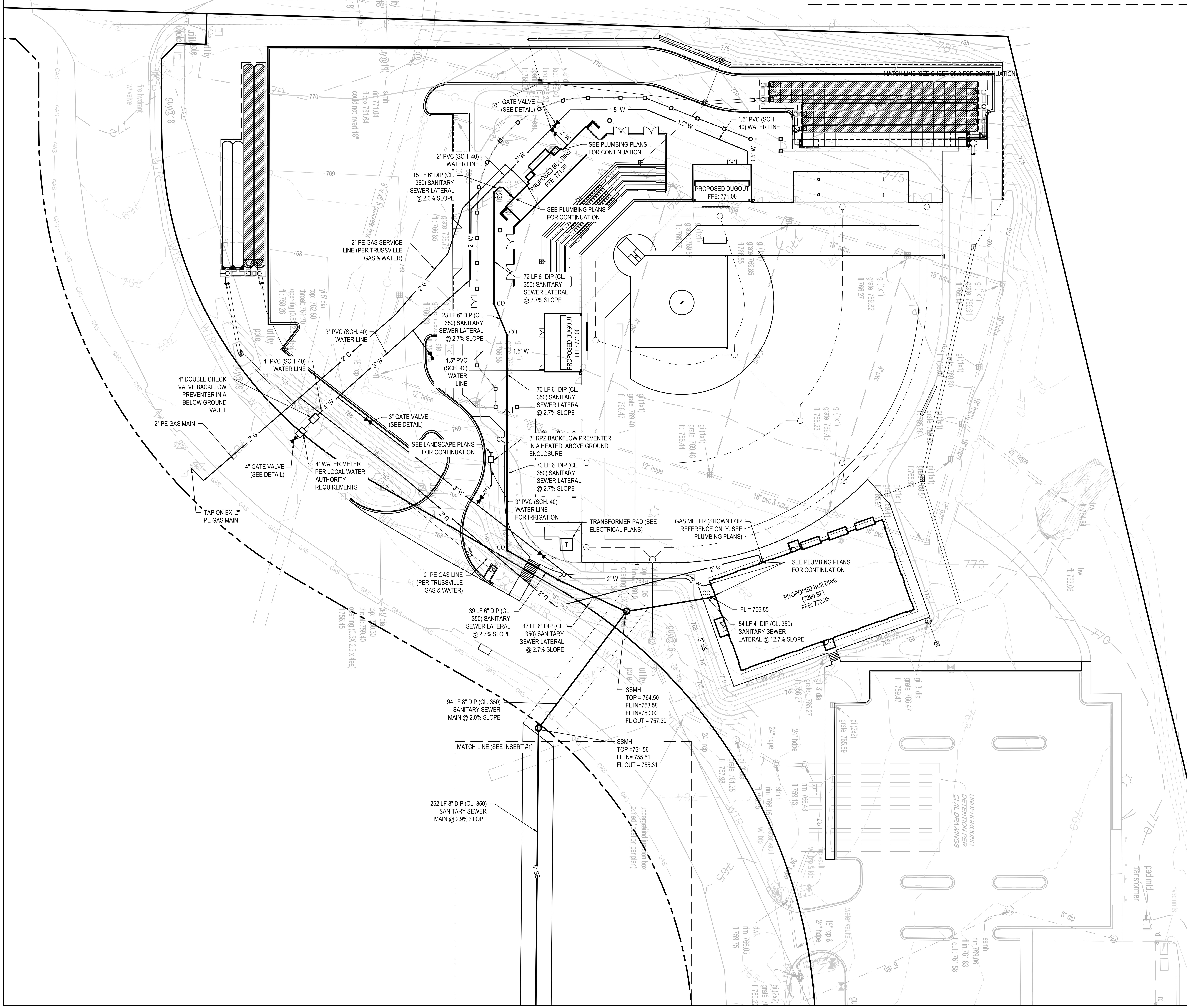
SHEET TITLE:
EROSION CONTROL PLAN- FINAL

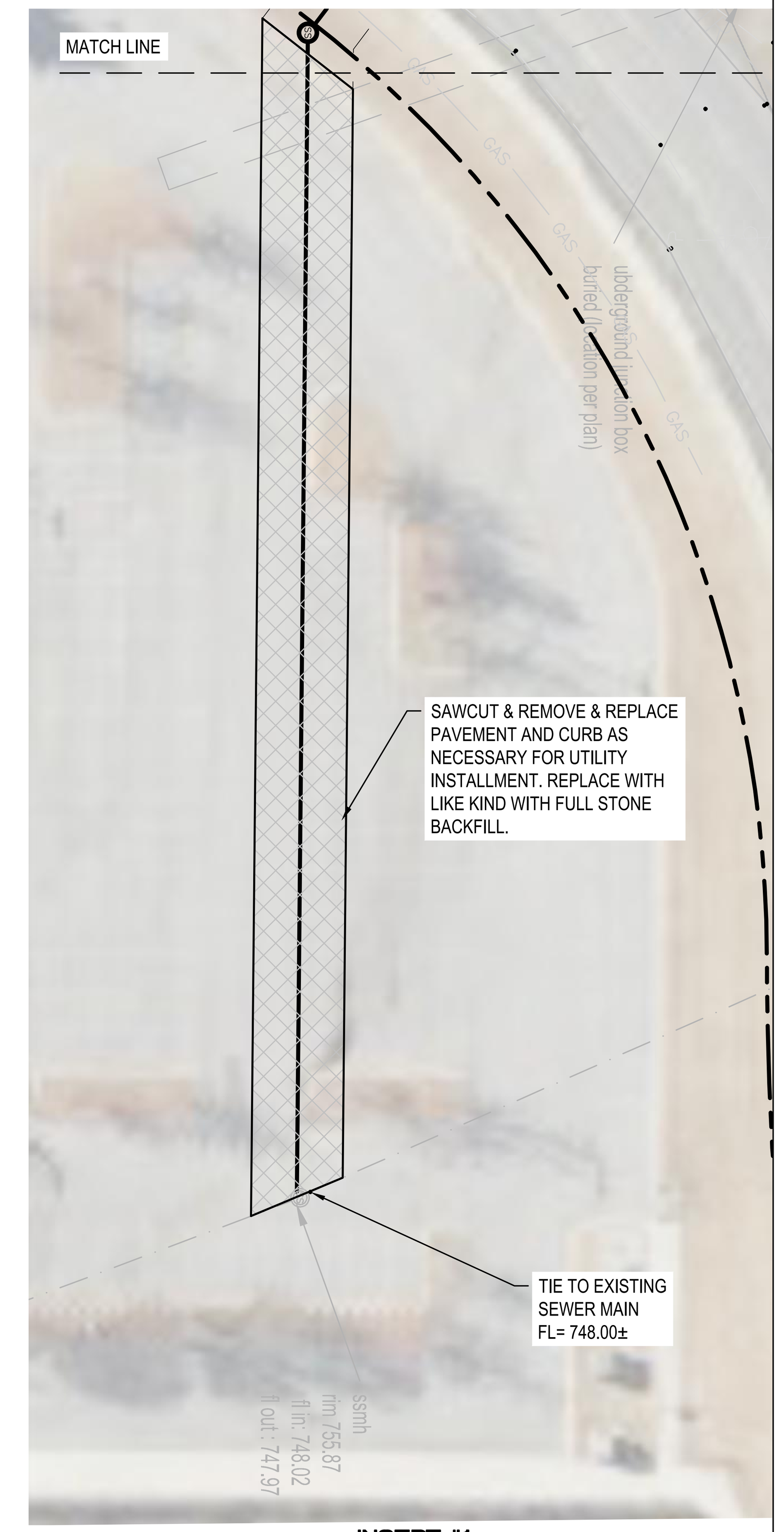
PROJ. MGR.:	MTH
DRAWN:	IJB
DATE:	MARCH 13, 2024
REVISIONS	

JOB NO. 23-72

SHEET NO:
C4.2
7 OF 17

0 1" 2"





INSERT #1
1"= 30'

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

UTILITY LEGEND

—F—	FIRE SERVICE
—W—	DOMESTIC WATER
—IRR—	IRRIGATION SERVICE
—COMM—	COMMUNICATION
—UGP—	UNDERGROUND POWER
—OHP—	OVERHEAD POWER
—GAS—	GAS
—SS—	SANITARY SEWER
(symbol)	FIRE HYDRANT
(symbol)	SANITARY SEWER MANHOLE
(symbol)	GATE VALVE
CO	CLEANOUT

N
0 15 30 45 60
SCALE: 1"=30'

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TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA LICENSED No. 35177 PROFESSIONAL ENGINEER
03/13/24

SHEET TITLE:
SITE UTILITY PLAN

PROJ. MGR.: MTH
DRAWN: IJB
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
C5.0

0 1" 2"

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PROJECT NO.
133212.001

SANITARY SEWER MAIN EXTENSION DESIGN IN PROGRESS AWAITING ADDITIONAL TOPOGRAPHIC SURVEY INFORMATION. ONCE DESIGN IS COMPLETE AND COORDINATED WITH JCES UTILITY PROVIDER, THIS DRAWING WILL BE RESUBMITTED AS AN ADDENDUM.

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

UTILITY LEGEND

F	FIRE SERVICE
W	DOMESTIC WATER
IRR	IRRIGATION SERVICE
COMM	COMMUNICATION
UGP	UNDERGROUND POWER
OHP	OVERHEAD POWER
GAS	GAS
SS	SANITARY SEWER
	FIRE HYDRANT
	SANITARY SEWER MANHOLE
	GATE VALVE
CO	CLEANOUT

N

0 30 60
15 45
SCALE: 1"=30'

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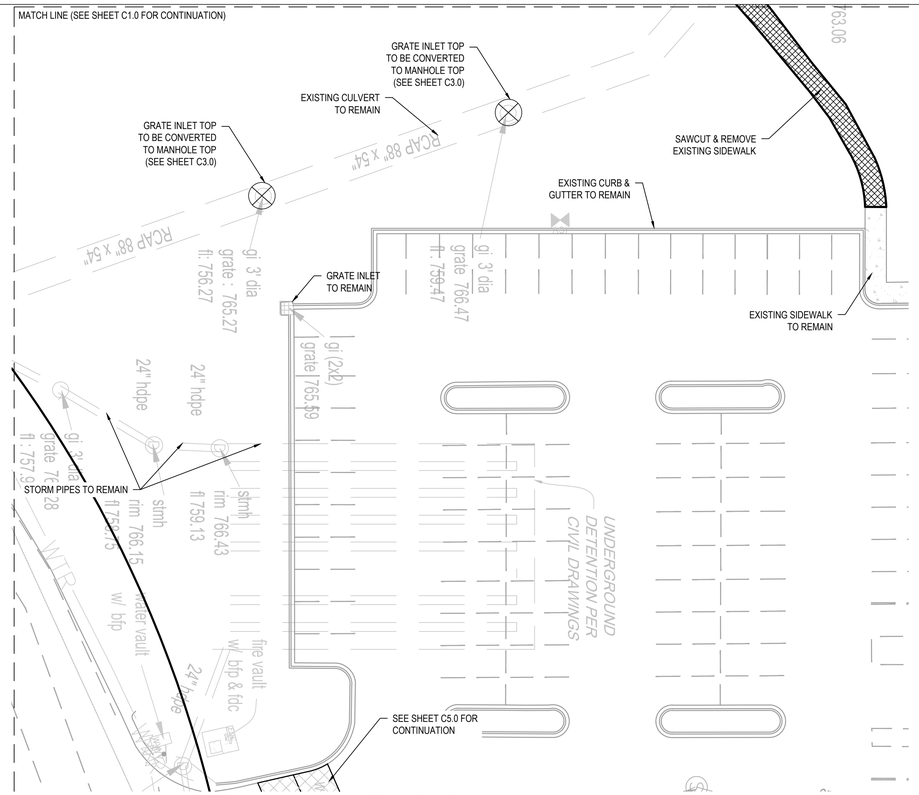
ALABAMA LICENSED No. 35177 PROFESSIONAL ENGINEER
09/13/24

SHEET TITLE:
JCES PLAN & PROFILE

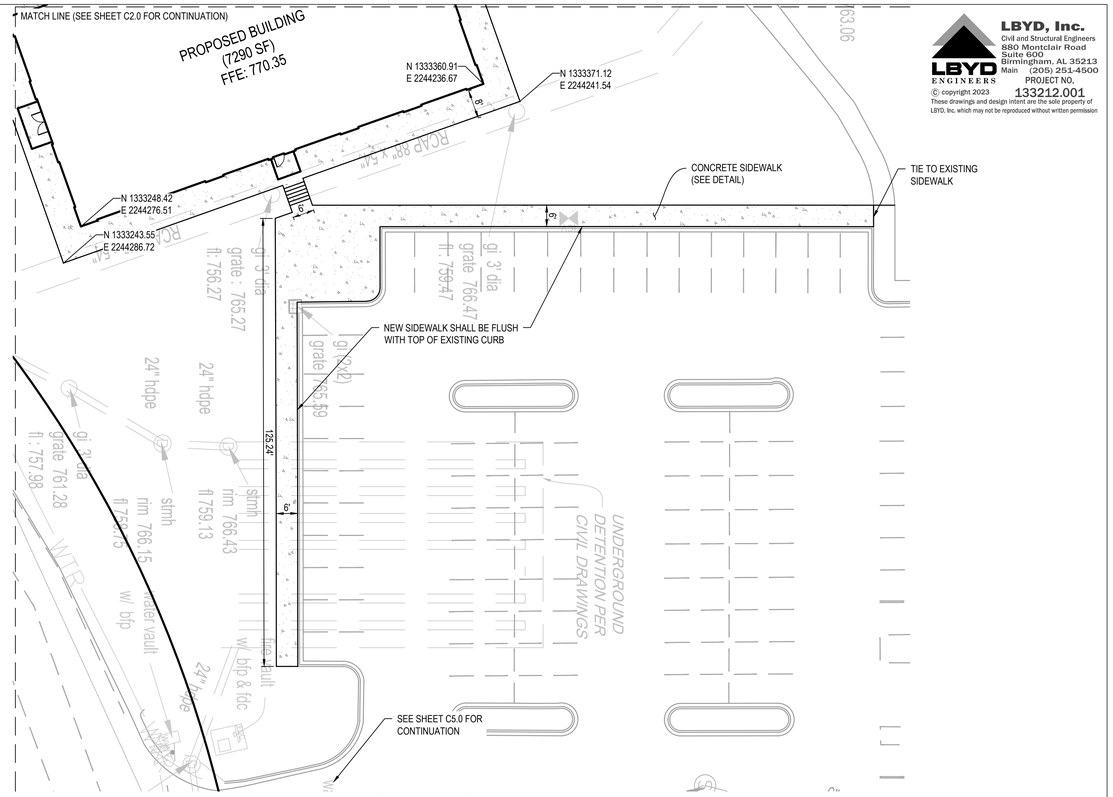
PROJ. MGR.: MTH
DRAWN: IJB
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
C5.1
9 OF 17

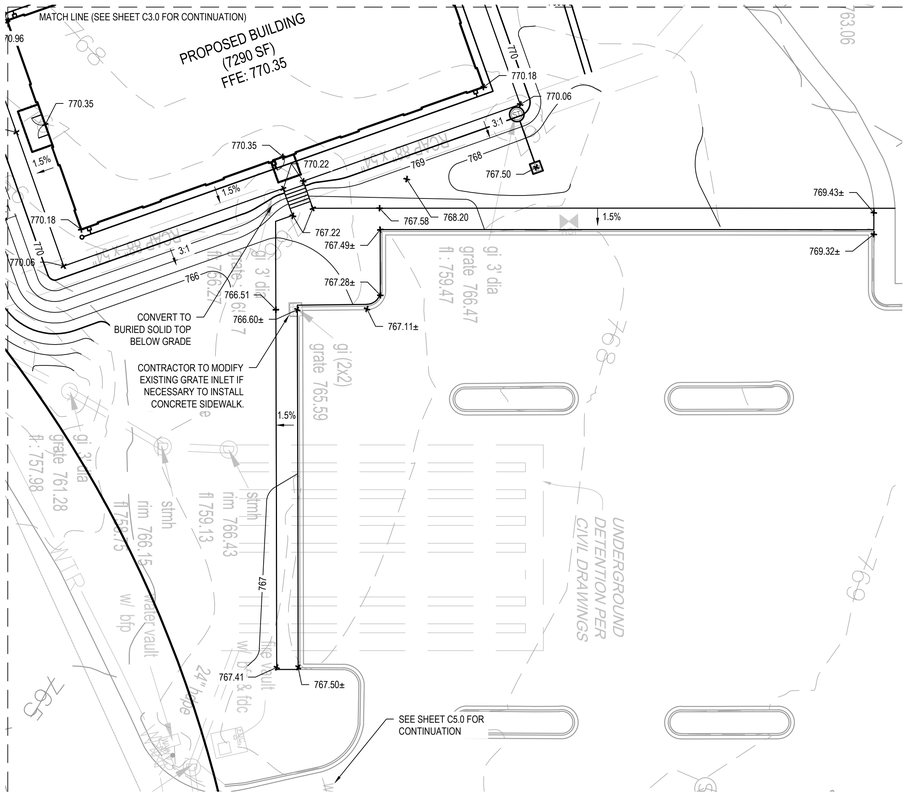
0 1" 2"



DEMOLITION PLAN



SITE LAYOUT PLAN



GRADING + DRAINAGE PLAN

SPECIAL NOTE:
1. SEE SHEET C0.1 FOR ALL APPLICABLE NOTES.
2. COORDINATES PROVIDED ON BUILDING ARE FOR GRADING BUILDING AREA ONLY BUILDING LAYOUT FOR CONSTRUCTION MUST BE COORDINATED WITH ARCHITECTURAL AND STRUCTURAL PLANS.

N

0 20 40
10 30
SCALE: 1"=20'

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Civil and Structural Engineers
880 Montclair Road
Suite 600
Birmingham, AL 35213
Main (205) 251-4500
PROJECT NO.
133212.001

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LATHAN ▪ BRYANT ▪ CALMA

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TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA LICENSED No. 35177 PROFESSIONAL ENGINEER
03/13/24

SHEET TITLE:
INSERT DEMOLITION, SITE LAYOUT, AND GRADING & DRAINAGE

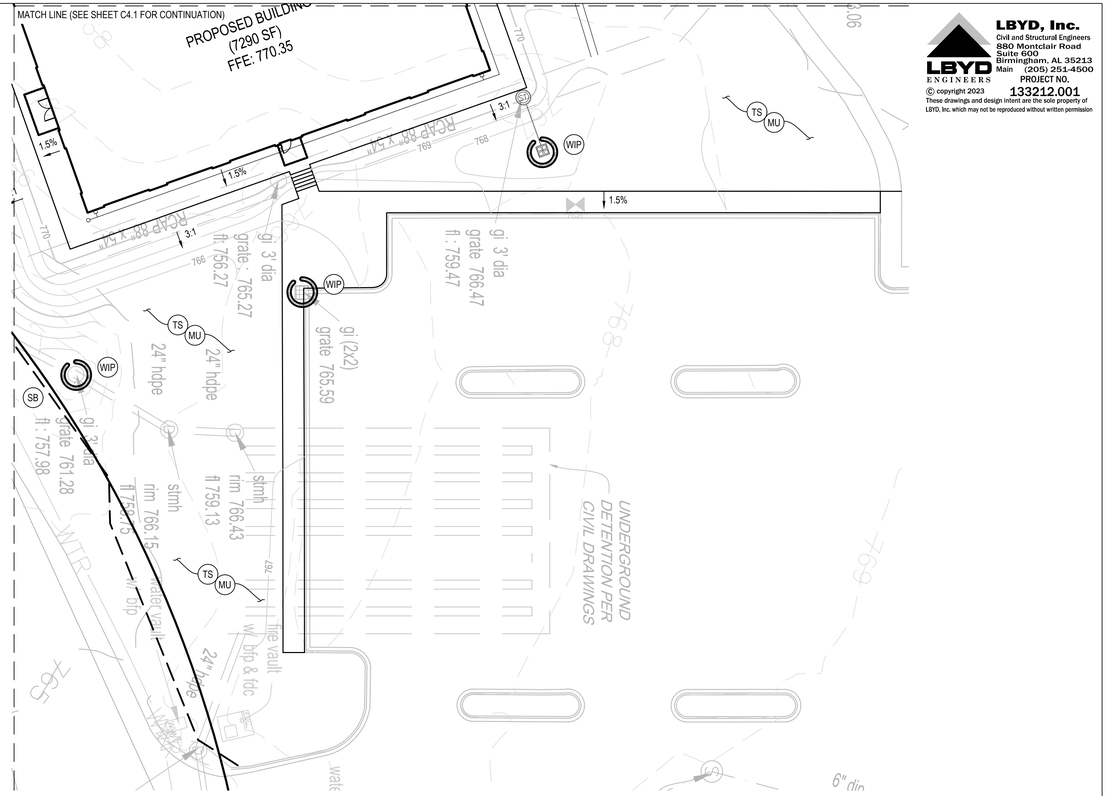
PROJ. MGR.:	MTH
DRAWN:	IJB
DATE:	MARCH 13, 2024
REVISIONS	

JOB NO. 23-72

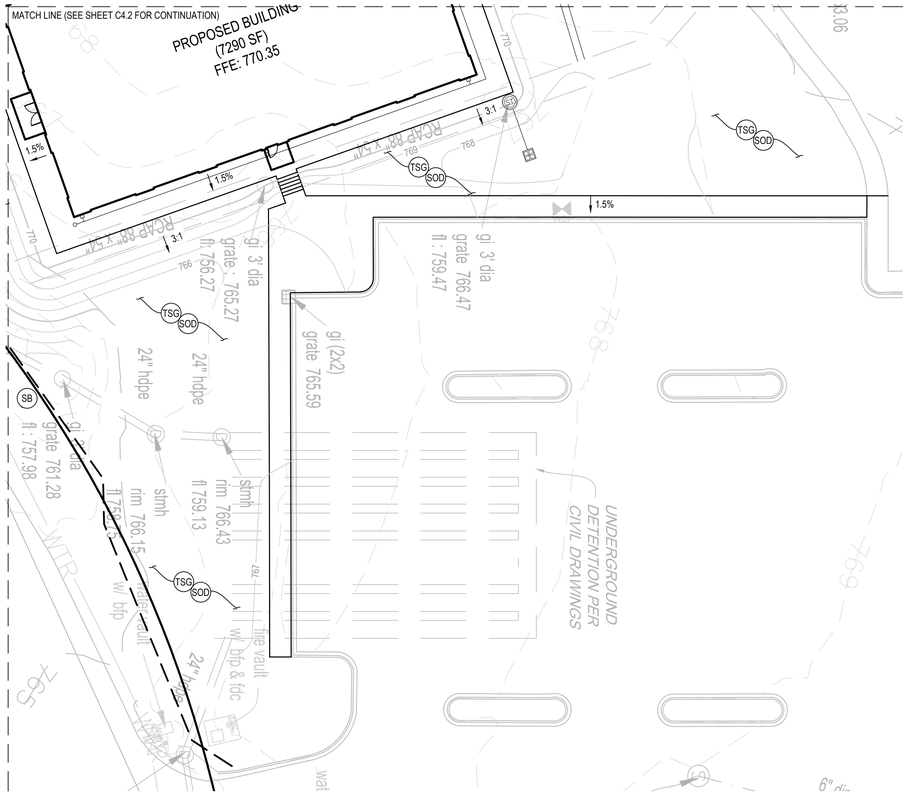
SHEET NO:
C6.0
10 OF 17

0 1" 2"

INITIAL EROSION CONTROL PLAN



INTERMEDIATE EROSION CONTROL PLAN



FINAL EROSION CONTROL PLAN

ALABAMA EROSION CONTROL LEGEND

SB	SILT FENCING
WIP	WATTLE INLET PROTECTION
CDW	WATTLE CHECK DAM
CdR	RIP RAP CHECK DAM
CEP	CONSTRUCTION EXIT PAD
OP	OUTLET PROTECTION
IP1	SILT SAVER INLET PROTECTION
IP2	DANDY SACK INLET PROTECTION
TSG	TOPSOIL
ECB	EROSION CONTROL BLANKET
DV	DIVERSION BERM
PS	PERMANENT SEEDING
TS	TEMPORARY SEEDING
SOD	SODDING
MU	MULCHING
SU	SURFACE ROUGHENING

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

N

0 20 40
10 30
SCALE: 1"=20'

LBYD, Inc.
Civil and Structural Engineers
880 Montclair Road
Suite 600
Birmingham, AL 35213
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TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA LICENSED No. 35177 PROFESSIONAL ENGINEER
09/13/24

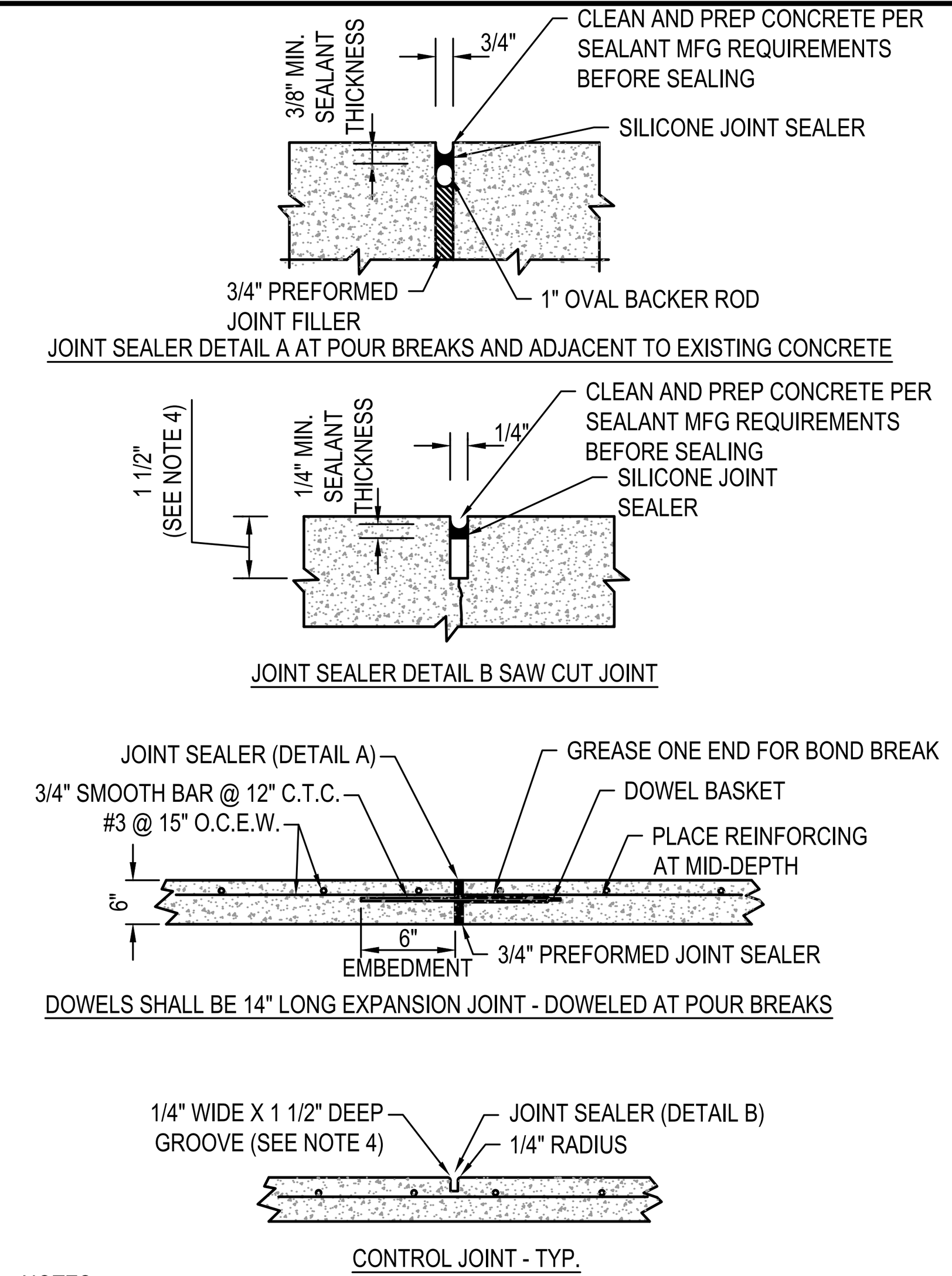
SHEET TITLE:
INSERT EROSION CONTROL PLANS (INITIAL, INTERMEDIATE, AND FINAL)

PROJ. MGR.:	MTH
DRAWN:	IJB
DATE:	MARCH 13, 2024
REVISIONS	

JOB NO. 23-72

SHEET NO:
C6.1
11 OF 17

0 1" 2"

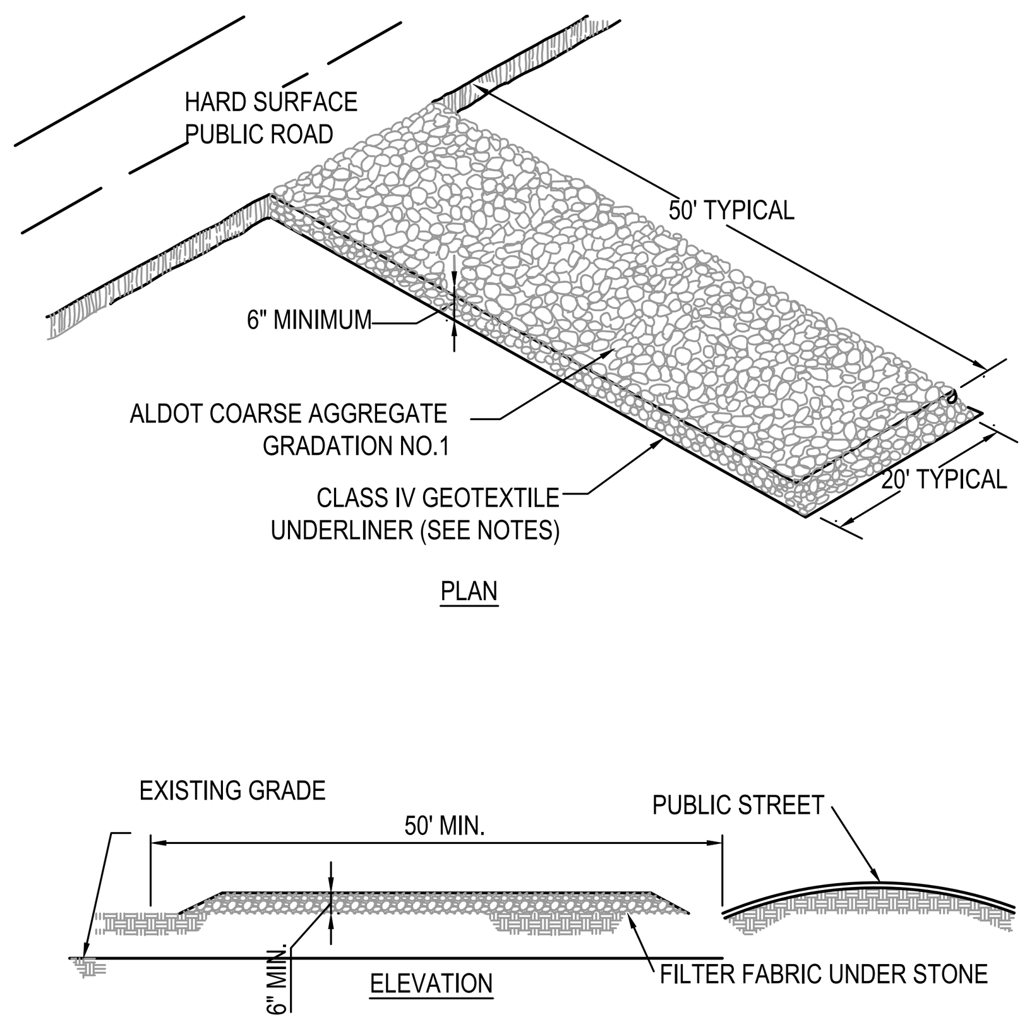


NOTES:

1. CONTRACTOR SHALL INSTALL 4" OF CRUSHED AGGREGATE BASE COURSE, TYPE B (ALDOT 825) UNDER ALL CONCRETE PAVING
2. CONCRETE SHALL HAVE 4000 PSI AT 28 DAYS
3. CONTRACTOR SHALL INSTALL CONTROL JOINTS IN CONCRETE PAVING AT 12' MAX SPACING BOTH WAYS. COORDINATE WITH ARCHITECTURAL PLANS FOR SCORING PATTERN.
4. CONTROL JOINT TO BE 1/4 OF THE SLAB THICKNESS TYPICALLY.
5. EXPANSION JOINTS AT POUR BREAKS AND 100' MAX SPACING. COORDINATE WITH CONTROL JOINTS. WHERE CONCRETE PAVING ABUTS BUILDING STRUCTURES, COLUMNS, FOOTINGS, POLE BASES, INLETS AND OTHER SIMILAR IMMOVABLE OBJECTS, CONTRACTOR SHALL PROVIDE EXPANSION JOINT WITH FILLER MATERIAL. CONTRACTOR SHALL ALSO PROVIDE CONTROL JOINTS TO MINIMIZE POTENTIAL FOR CRACKING. COORDINATE WITH ENGINEER FOR LOCATIONS.
6. IN LIEU OF REINFORCEMENT SHOWN, CONTRACTOR MAY USE 4x4 W2.9/W2.9 WELDED WIRE FABRIC.
7. IF DRY-CUTTING OF CONTROL JOINTS IS USED, AN ABRASIVE BLADE MAY BE USED IN LIEU OF SANDBLASTING.

CONCRETE PAVING

N.T.S.

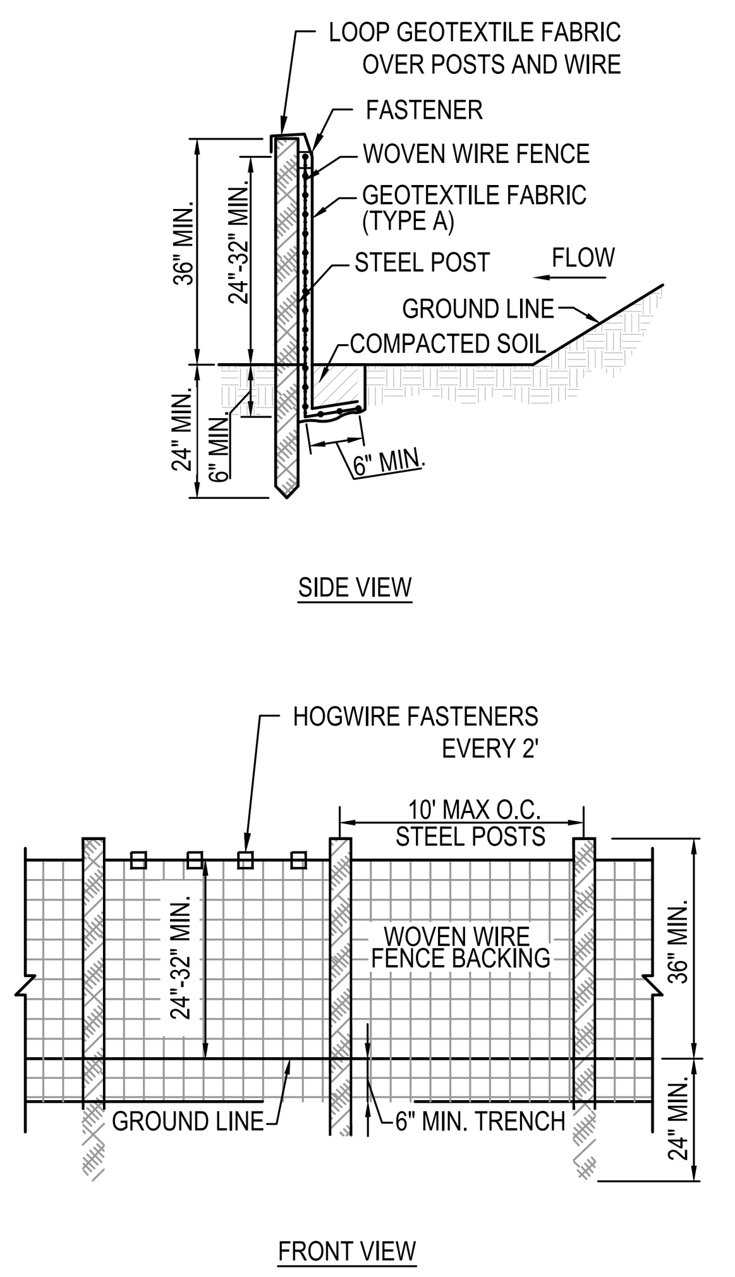


SPECIAL NOTES :

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.



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.

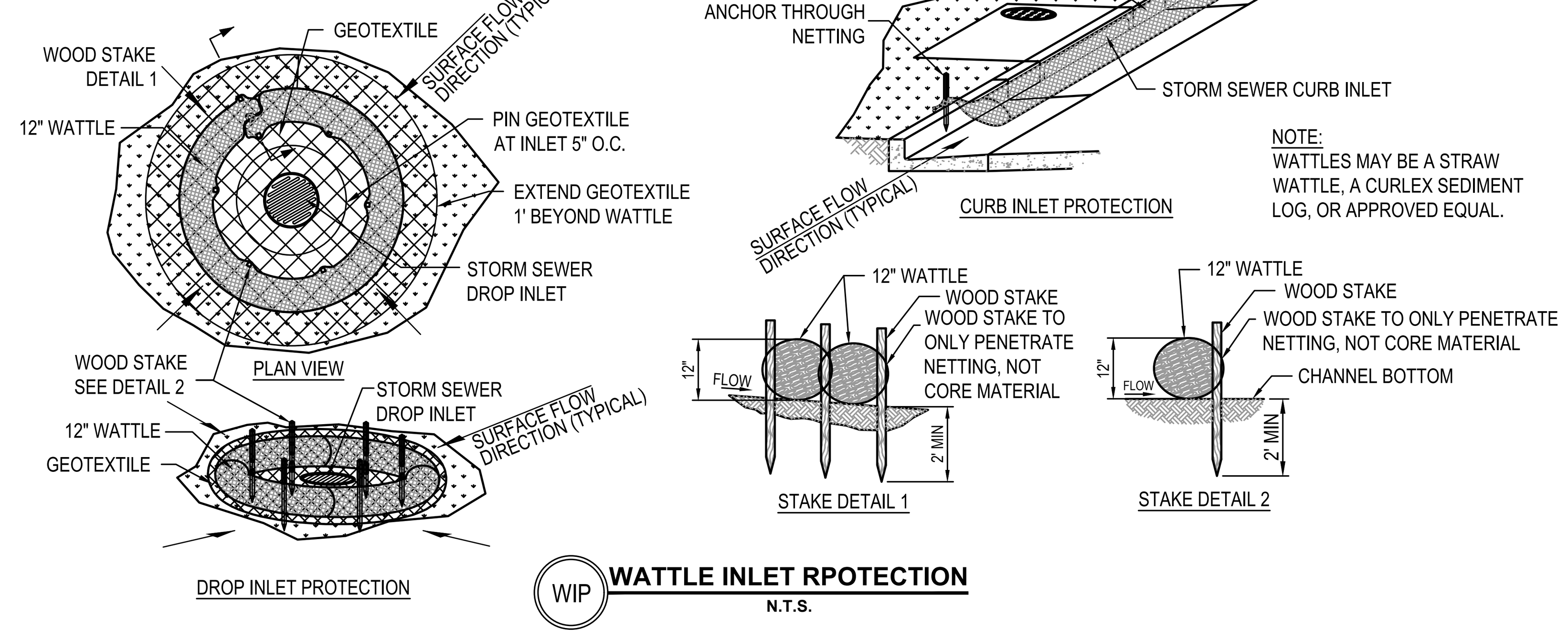
MAINTENANCE SCHEDULE:
REMOVE SEDIMENT DEPOSITS WHEN THEY REACH A DEPTH OF 15" OR 1/2 THE HEIGHT OF THE FENCE AS INSTALLED TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. SHOULD THE FABRIC OR SILT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE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

SB **SILT FENCE - TYPE A**

N.T.S.

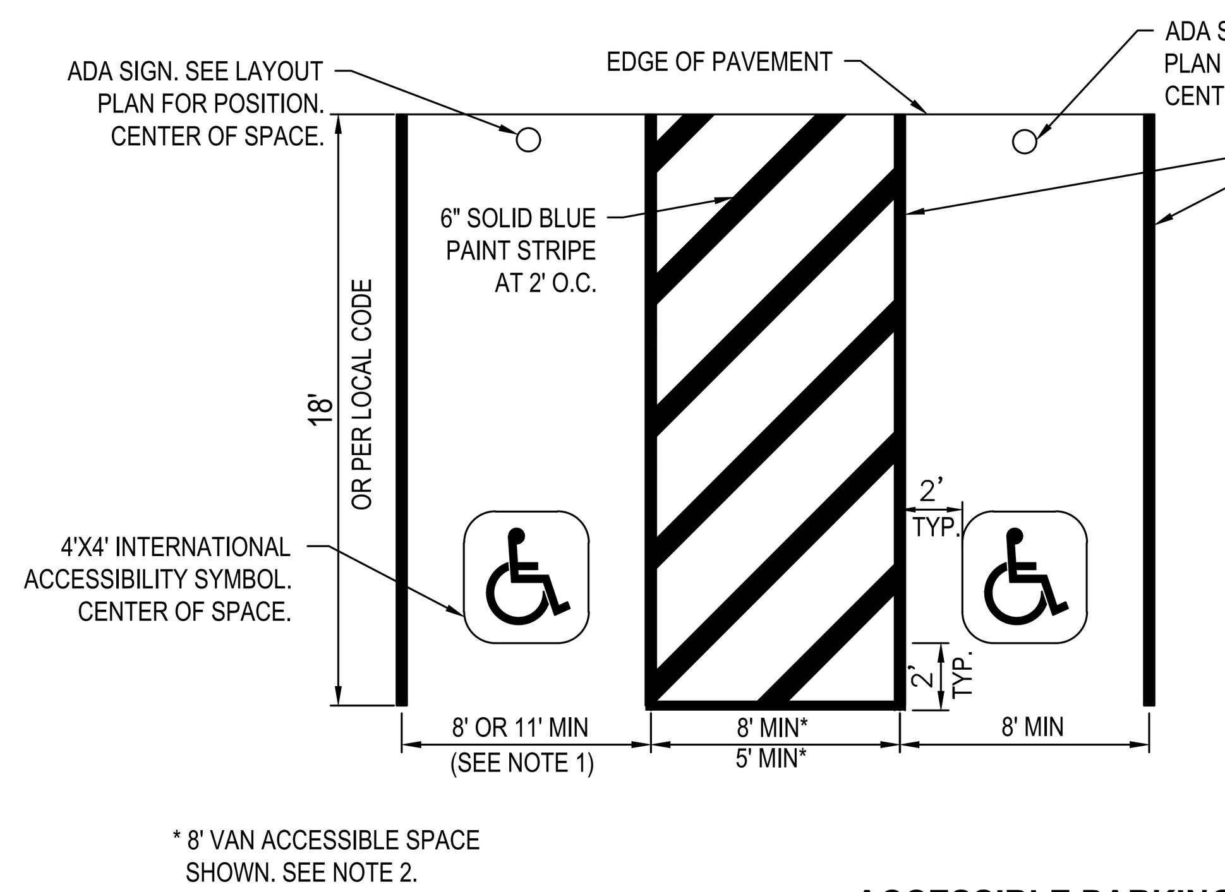
ADEM

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.



WIP **WATTLE INLET RPOTECTION**

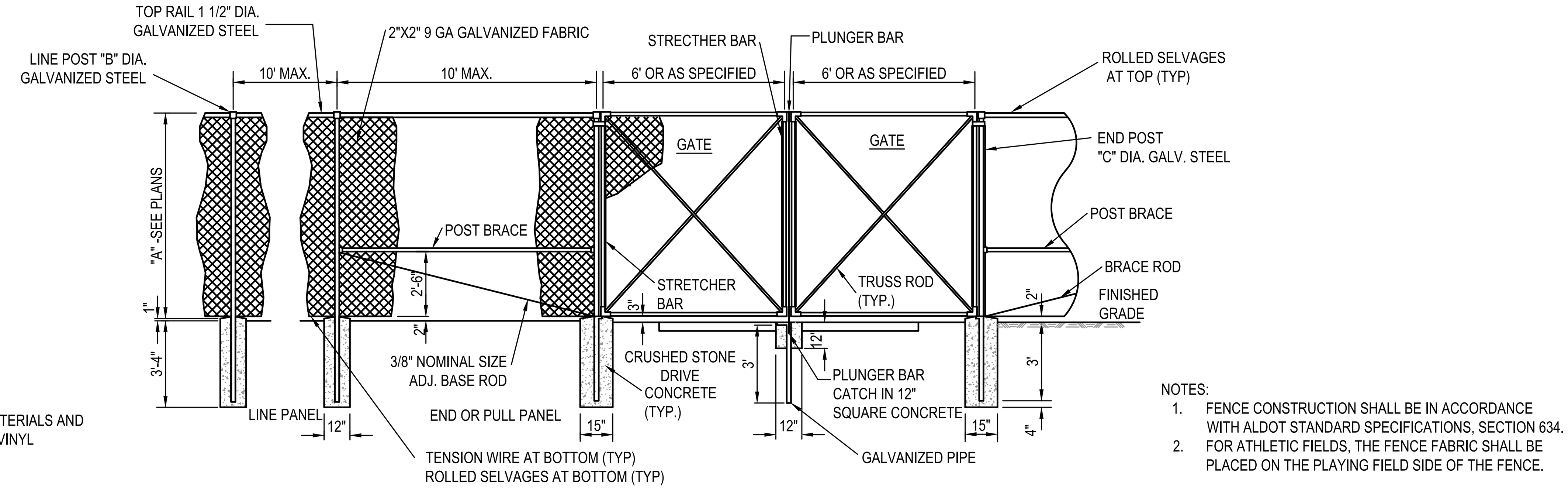
N.T.S.



NOTES:
1. ALL ACCESSIBLE PARKING AND ROUTES TO CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
2. FOR VAN SPACE, 8' MINIMUM SPACE WITH 8' MINIMUM ACCESS AISLE OR 11' MINIMUM SPACE WITH 5' MINIMUM ACCESS AISLE.
3. CAN REPEAT DETAIL IF ADDITIONAL SPACES ARE REQUIRED. (SEE LAYOUT PLAN).
4. SIGN NOTES:
   a. SIGNS LOCATED IN PAVEMENT SHALL BE BOLLARD TYPE SIGN. SEE BOLLARD MOUNTED ACCESSIBLE SIGN DETAIL.
   b. SIGNS LOCATED BEYOND PAVEMENT SHOULD BE MOUNTED ON POST PER ACCESSIBLE SIGN DETAIL.
   c. DO NOT PLACE SIGNS WITHIN THE ACCESSIBLE ROUTE
5. CONTRACTOR TO VERIFY WITH LOCAL CODES FOR ANY ADDITIONAL REQUIREMENTS.

ACCESSIBLE PARKING

N.T.S.



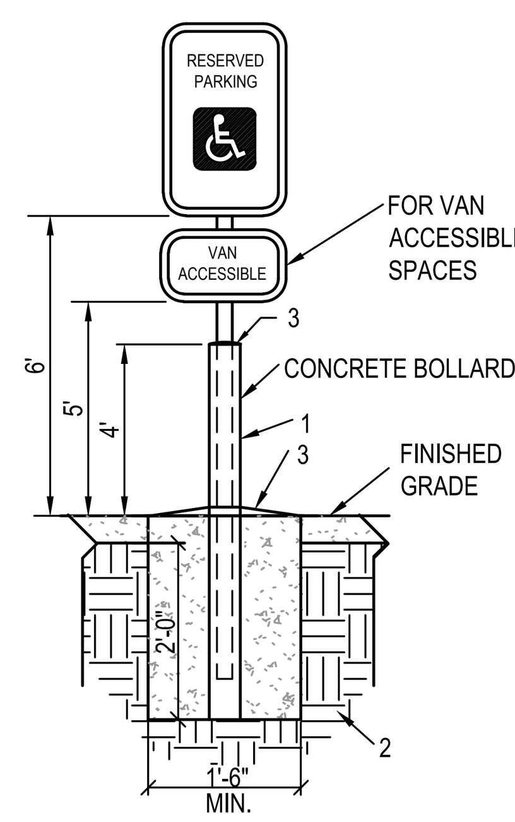
FINISH NOTE:
ALL FENCING FABRIC, FRAME MATERIALS AND ACCESSORIES SHALL BE BLACK VINYL COATED.

"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.

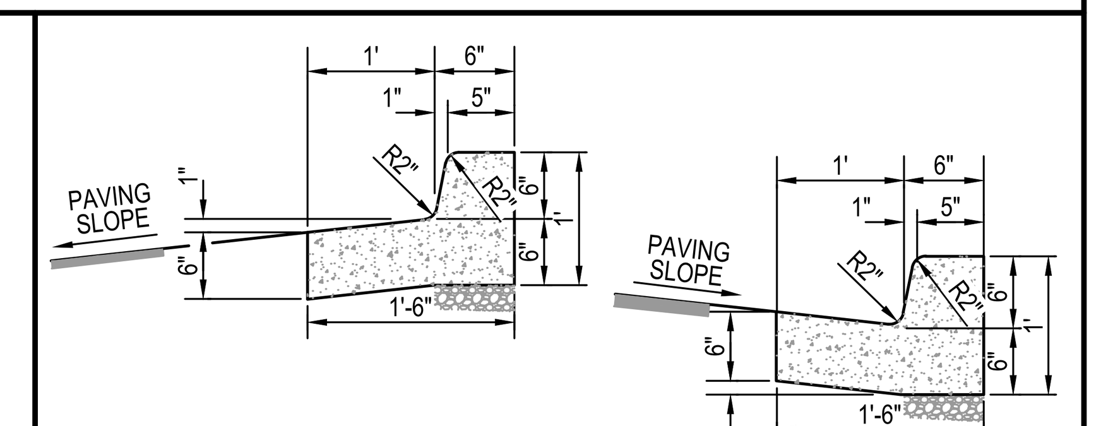


NOTES:
1. ADA ACCESSIBLE PARKING SIGN SHALL CONFORM TO ALL GOVERNING REGULATIONS.
2. ADA ACCESSIBLE SIGN SHALL BE 12" x 18"x 0.08", FASTENED WITH TWO EACH 3/8" CADIUM BOLTS, NUTS AND WASHERS.
3. POST SHALL BE 1.75" x 3-1/2" HEAVY DUTY GALVANIZED.
4. SIGNS SHALL BE A MINIMUM OF 60" ABOVE FINISH FLOOR OR GROUND SURFACE MEASURED TO THE BOTTOM OF THE SIGN.

KEYED NOTES:
1. FORM. 6"Ø STANDARD STL. PIPE CONCRETE FILLED AT ALL ACESSIBLE SIGN LOCATIONS. PROVIDE 1/4" WELDED CLOSURE PLATE AT BOTTOM. PAINT EXPOSED PIPE YELLOW.
2. SOLID UNDISTURBED SOIL.
3. PROVIDED PITCH, SMOOTH CONCRETE FINISH.

BOLLARD MOUNTED ADA ACCESSIBLE SIGN

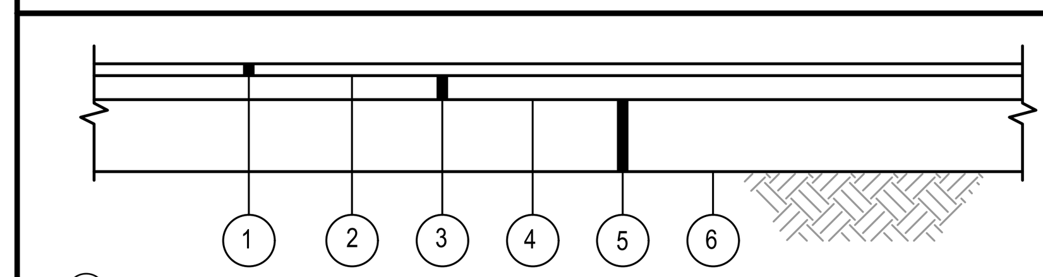
N.T.S.



NOTES:
1. SLOPE GUTTER AS SHOWN ACCORDING TO PAVING SLOPE. THIS SLOPE SHALL NOT EXCEED 5% TO COMPLY WITH ADA REQUIREMENTS AT ANY HANDICAP RAMP.
2. PROVIDE EXPANSION JOINTS WITH PREFORMED JOINT FILLER MATERIAL CUT TO MATCH SHAPE OF CURB AND GUTTER OF AT LEAST 1/2 INCH IN WIDTH AT INTERVALS NOT LESS THAN 30' NOR GREATER THAN 100' AND AT P.C.'S AND P.T.'S OF ALL CURVES, AT STRUCTURES (CURB INLETS, WHEELCHAIR RAMPS, ETC.).
3. SAWCUT 3/16" JOINTS AT SPACING NOT LESS THAN 5' AND NOT TO EXCEED 15' JOINT DEPTH SHALL BE 1/4 DEPTH OF CURB/GUTTER. JOINT TO BE PERPENDICULAR TO THE RUN OF THE CURB AND GUTTER.
4. IF ADJACENT TO CONCRETE PAVING SIDEWALK LINE UP JOINTS WITH ADJACENT CONCRETE JOINTS.
5. 3,500 PSI CONCRETE UNLESS STATED OTHERWISE.
6. PROVIDE 6" CRUSHED STONE BASE UNDER ALL CURBS AND GUTTERS.
7. VERIFY SHAPE OF CURB TO MATCH ANY EXISTING CONDITIONS OR LOCAL STANDARDS.

18" CURB & GUTTER

N.T.S.



1. REQUIRED 1.5 INCH BITUMINOUS CONCRETE, WEARING LAYER (ALDOT 424A - $\frac{3}{4}$" MAX AGGREGATE SIZE)
2. REQUIRED TACK COAT (ALDOT 405).
3. REQUIRED 2 INCHES BITUMINOUS CONCRETE, BINDER LAYER (ALDOT 424B- 1" MAX AGGREGATE SIZE).
4. REQUIRED BITUMINOUS TREATMENT (PRIME) (ALDOT 401, TYPE A)
5. REQUIRED 6 INCHES CRUSHED AGGREGATE BASE COURSE, TYPE B, (ALDOT 825).
6. SUBGRADE: TOP 12 INCHES - 98% COMPACTION ASTM D-698.

NOTE: ALL MIX DESIGNS ARE PER THE "ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" - 2018 EDITION.

STANDARD DUTY ASPHALT PAVING

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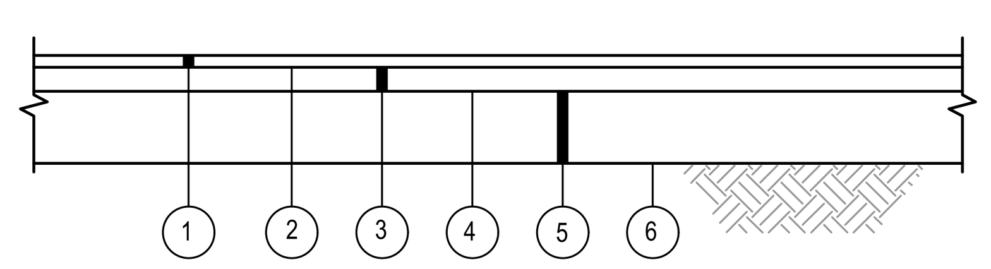
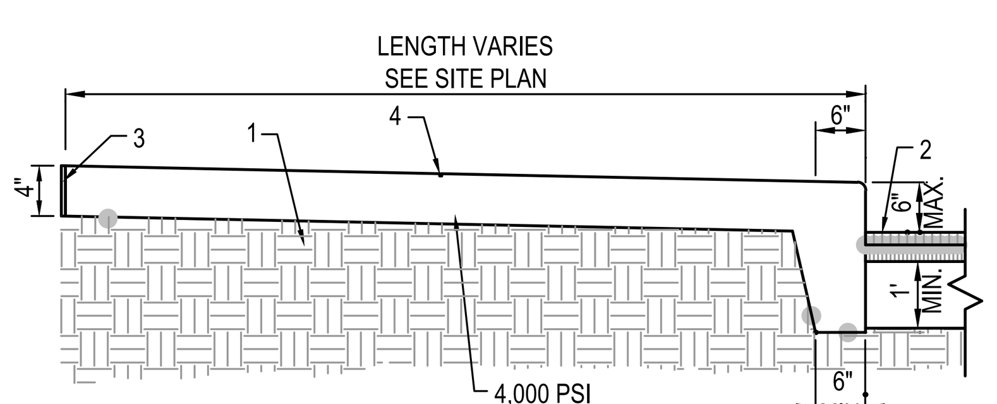


1. REQUIRED 1.5" IMPROVED BITUMINOUS CONCRETE, WEARING LAYER (ALDOT 424A)
2. REQUIRED TACK COAT (ALDOT 405).
3. REQUIRED 2" BITUMINOUS CONCRETE UPPER BINDER LAYER (ALDOT 424B).
4. REQUIRED BITUMINOUS TREATMENT (PRIME) (ALDOT 401, TYPE A).
5. REQUIRED 8" CRUSHED AGGREGATE BASE COURSE, TYPE B, (ALDOT 825).
6. SUBGRADE: TOP 12 INCHES - 98% COMPACTION (ASTM D-698).

NOTE: ALL MIX DESIGNS ARE PER THE "ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" - 2018 EDITION.

HEAVY DUTY ASPHALT PAVING

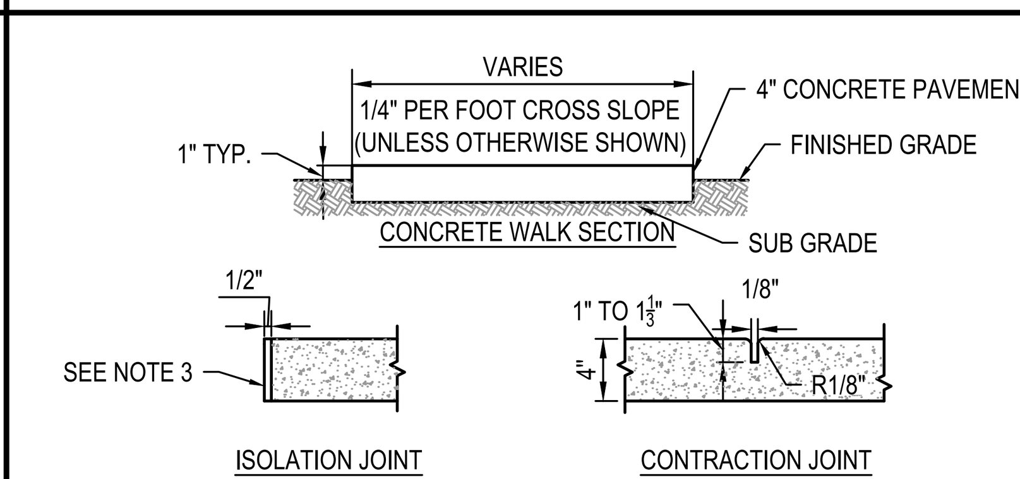
N.T.S.



KEYED NOTES:
1. COMPACTED SUBGRADE
2. PAVEMENT
3. COMPRESSIBLE FILLER, CUT BACK AND PROVIDE SEALANT, TYPICAL, AT ALL JOINTS WITH FILLER.
4. 1/8" CONTRACTION JOINT EVERY 5' TO 10'; EXPANSION JOINT EVERY 15 FEET.

PERIMETER SIDEWALK-CURB DETAIL

N.T.S.



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 $\frac{1}{3}$ " 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 $\frac{1}{2}$" 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

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LBYD, Inc.
Civil and Structural Engineers
880 Montclair Road
Suite 600
Birmingham, AL 35213
Main (205) 251-4500
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LATHAN ARCHITECTS
LATHAN • BRYANT • CALMA

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
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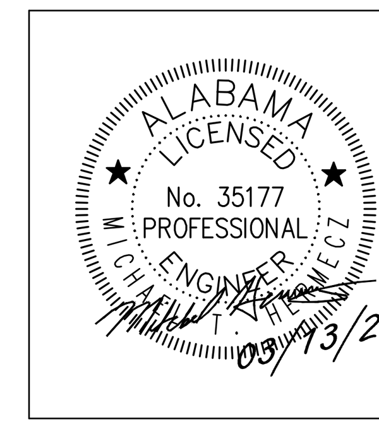


SHEET TITLE:
CIVIL DETAILS

PROJ. MGR.: MTH
DRAWN: IJB
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72

SHEET NO:
C7.0

0 1" 2"

TABLE MU-1: MULCHING MATERIALS AND APPLICATION RATES		
MATERIAL	RATE PER ACRE (PER 1,000 SQ.FT.	NOTES
STRAW WITH SEED	1 1/2 - 2 TONS (70 LBS - 90 LBS)	SPREAD BY HAND OR MACHINE TO ATTAIN 75% GROUNDCOVER; ANCHOR WHEN SUBJECT TO BLOWING.
STRAW ALONE (NO SEED)	2 1/2 - 3 TONS (115 LBS - 160 LBS)	SPREAD BY HAND OR MACHINE; ANCHOR WHEN SUBJECT TO BLOWING.
WOOD CHIPS	5-6 TONS (225 LBS - 270 LBS)	TREAT WITH 12 LBS. NITROGEN/TON.
BARK	35 CUBIC YARDS (0.8 CUBIC YARD)	CAN APPLY WITH MULCH BLOWER.
PINE STRAW	1-2 TONS (45 LBS - 90 LBS)	SPREAD BY HAND OR MACHINE; WILL NOT BLOW LIKE STRAW.
PEANUT HULLS	10-20 TON (450 LBS - 900 LBS)	WILL WASH OFF SLOPES. TREAT WITH 12 LBS. NITROGEN/TON.

TABLE TS-1: COMMONLY USED PLANTS FOR TEMPORARY COVER				
SPECIES	SEEDING RATE PER AC PLS	NORTH	CENTRAL	SOUTH
MILLET, BROWNTOP, OR GERMAN	40 LBS	MAY 1 - AUG 1	ARP 1 - AUG 15	ARP 1 - AUG 15
RYE	3 BU	SEPT 1 - NOV 15	SEPT 15 - NOV 15	SEPT 15 - NOV 15
RYEGRASS	30 LBS	AUG 1 - SEPT 15	SEPT 1 - OCT 15	SEPT 1 - OCT 15
SORGHUM - SUDAN HYBRIDS	40 LBS	MAY 1 - AUG 1	APR 15 - AUG 1	ARP 1 - AUG 15
SUNDANGRASS	40 LBS	MAY 1 - AUG 1	APR 15 - AUG 1	ARP 1 - AUG 15
WHEAT	3 BU	SEPT 1 - NOV 1	SEPT 15 - NOV 15	SEPT 15 - NOV 15
COMMON BERMUDAGRASS	10 LBS	APR 1 - JULY 1	MAR 15 - JULY 15	MAR 1 - JULY 15
CRIMSON CLOVER	10 LBS	SEPT 1 - NOV 1	SEPT 1 - NOV 1	SEPT 1 - NOV 1

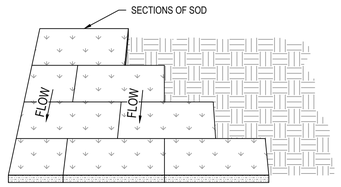
TABLE PS-1: COMMONLY USED PLANTS FOR PERMANENT COVER WITH SEEDING RATES AND DATES				
SPECIES	SEEDING RATE PER AC PLS	NORTH	CENTRAL	SOUTH
BAHIAGRASS, PENSACOLA	40 LBS	--	MAR 1 - JULY 1	FEB 1 - NOV 1
BERMUDAGRASS, COMMON	10 LBS	APR 1 - JULY 1	MAR 15 - JULY 15	MAR 1 - JULY 15
BAHIAGRASS, PENSACOLA	30 LBS	--	MAR 1 - JULY 1	MAR 1 - JULY 15
BERMUDAGRASS, COMMON	5 LBS	--	MAR 1 - JULY 1	MAR 1 - JULY 15
BERNUDAGRASS, HYBRID (LAWN TYPES)	SOLID SOD	ANYTIME	ANYTIME	ANYTIME
BERNUDAGRASS, HYBRID (LAWN TYPES)	SPRIGS 1/SQ FT	MAR 1 - AUG 1	MAR 1 - AUG 1	FEB 15 - SEPT 1
FESCUE, TALL	40 - 50 LBS	SEPT 1 - NOV 1	SEPT 1 - NOV 1	--
SERICEA	40 - 60 LBS	MAR 15 - JULY 15	MAR 1 - JULY 15	FEB 15 - JULY 15
SERICEA & COMMON BERMUDAGRASS	40 - 60 LBS 10 LBS	MAR 15 - JULY 15	MAR 1 - JULY 15	FEB 15 - JULY 15
SWITCHGRASS, ALAMO	4 LBS	APR 1 - JUN 15	MAR 15 - JUN 15	MAR 15 - JUN 15

PLS MEANS PURE LIVE SEED AND IS USED TO ADJUST SEEDING RATES. FOR EXAMPLE: TO PLANT 10 LBS PLS OF A SPECIES WITH GERMINATION OF 80% AND 10% INERT MATERIAL -> 10 LBS / 0.70 = 14.3 LBS.

NOTES:
1. ANY DISTURBED AREA, MUST BE PLANTED OR OTHERWISE PROVIDED WITH GROUND COVER, MATERIALS, DEVICES, AND/OR STRUCTURES SUFFICIENT TO RESTRAIN ALL FORMS OF EROSION, TO THE MAXIMUM EXTENT PRACTICABLE WITHIN FOURTEEN (14) DAYS OF STOPPING WORK.
2. CONTRACTOR TO COORDINATE PERMANENT SEEDING WITH OWNER.

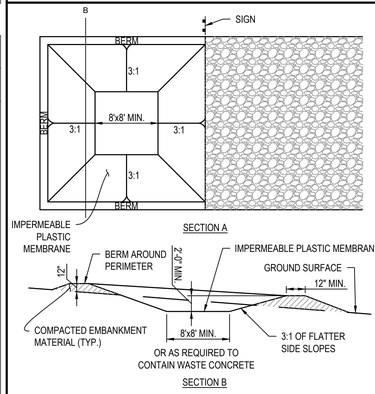
MULCHING, TEMPORARY SEEDING, & PERMANENT SEEDING DIRECTIONS
N.T.S.

TABLE SOD-1: GRASSED ADAPTED FOR SODDING IN ALABAMA		
WARM SEASON GRASSES		
SPECIES	VARIETY	AREA ADAPTED
BERMUDAGRASS	TIFWAY, TIFSPORT, CELEBRATION, TIFGRAND, COMMON	NORTH, CENTRAL, SOUTH
BAHIAGRASS	PENSACOLA	CENTRAL, SOUTH
CENTIPEDE	COMMON, TIFBLAIR	CENTRAL, SOUTH
ST. AUGUSTINE	COMMON, AND A FEW COMMERCIAL VARIETIES	SOUTH
ZOYSIA	ANY SELECTION AVAILABLE IN ALABAMA, ZENITH IS SEEDED	CENTRAL, SOUTH
COOL SEASON GRASSES		
TALL FESCUE	KENTUCKY 31, REBEL (TURF TYPE)	NORTH



NOTES:
1. LAY SOD IN A STAGGERED PATTERN WITH STRIPS BUTTED TIGHTLY AGAINST EACH OTHER
2. LAY SOD ACROSS THE DIRECTION OF FLOW IN AREAS OF CHANNEL FLOW. USE PEGS OR STAPLES TO FASTEN SOD FIRMLY AT THE CORNERS AND IN THE CENTER.

SOD **SODDING**
N.T.S.



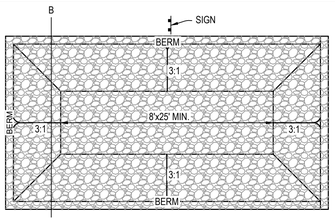
CONCRETE WASHOUT AREA INSTALLATION NOTES

1. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
2. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
3. EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.
4. IMPERMEABLE PLASTIC SHEETING SHALL BE 30 MIL TO PREVENT ANY TEARING, PUNCTURES, OR LEAKING.

CONCRETE WASHOUT AREA MAINTENANCE NOTES

1. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
2. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
3. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED.
4. INSPECT WEEKLY, DURING AND AFTER ANY STORM EVENT.

CONCRETE WASHOUT AREA
N.T.S.



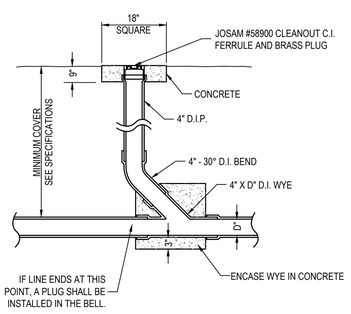
FUELING AND MAINTENANCE AREA INSTALLATION NOTES

1. THE FUELING AND MAINTENANCE AREA SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ON SITE.
2. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE FUELING AND MAINTENANCE AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE FUELING AND MAINTENANCE AREA TO OPERATORS OF VEHICLES AND EQUIPMENT.
3. EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.

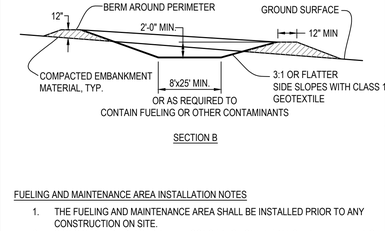
FUELING AND MAINTENANCE AREA MAINTENANCE NOTES

1. THE FUELING AND MAINTENANCE AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
2. AS NECESSARY, ALL CONTAMINANTS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
3. WHEN THE FUELING AND MAINTENANCE AREA IS REMOVED, THE DISTURBED AREA SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED.
4. INSPECT WEEKLY, DURING AND AFTER ANY STORM EVENT.

FUELING AND MAINTENANCE AREA
N.T.S.

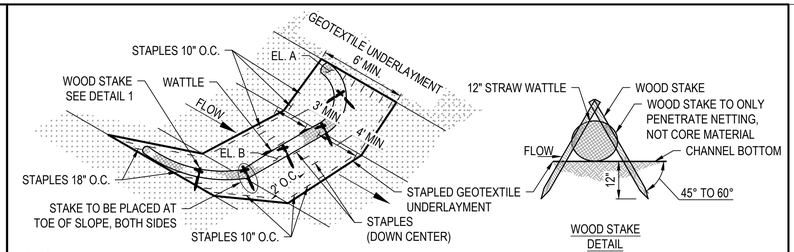


TYPICAL CLEANOUT
N.T.S.



NOTES:
1. CROSSWALK LINES SHALL CONSIST OF SOLID WHITE LINES THAT MARK THE CROSSWALK. THE LINES SHALL NOT BE LESS THAN 2 FEET IN WIDTH.
2. CROSSWALK LINES SHOULD EXTEND THE FULL WIDTH OF PAVEMENT FROM CURB TO CURB OR TO THE EDGE OF THE INTERSECTING CROSSWALK.
3. FOR ADDED VISIBILITY, THE CROSSWALK AREA MAY BE MARKED WITH WHITE DIAGONAL LINES AT 45 DEGREE ANGLE TO THE LINE OF THE CROSSWALK.

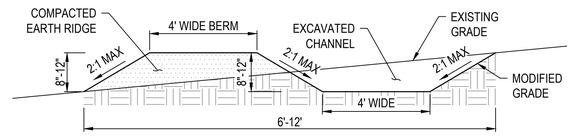
PEDESTRIAN CROSSWALK
N.T.S.



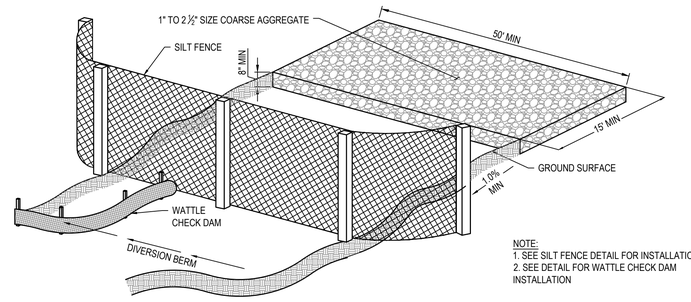
NOTES:
1. PROVIDE AND INSTALL WATTLE CHECK DAMS. INSTALL WITHOUT TRENCHING AND OVER STAPLED GEOTEXTILE UNDERLAYMENT THAT EXTENDS A MINIMUM OF 3 FEET UPSTREAM AND 4 FEET DOWNSTREAM FROM THE WATTLE. STAPLE WATTLES WITH SOD STAPLES ON 6 INCH CENTERS,ON EACH SIDE OF THE WATTLE TO PREVENT FLOTATION, AND STAKE OVER TOP USING NON-DESTRUCTIVE TEE-PEE TYPE STAKING AS SHOWN.
2. PROVIDE GEOTEXTILE CONFORMING TO AASHTO M228.
3. REFER TO ALDOT SPECIAL DRAWING NO. ESC-300-1 FOR RECOMMEND PLACEMENT INTERVAL BETWEEN WATTLES BUT SPACE AT A MIN. OF 100'.

CDW **WATTLE CHECK DAM**
N.T.S.

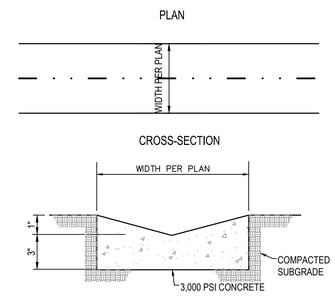
NOTES:
1. PROVIDE STABLE OUTLETS FOR EACH DIVERSION.
2. SEED RIDGE AND CHANNEL WITHIN 13 DAYS OF INSTALLATION IN ACCORDANCE WITH THE APPLICABLE SEEDING PRACTICE REQUIREMENTS.



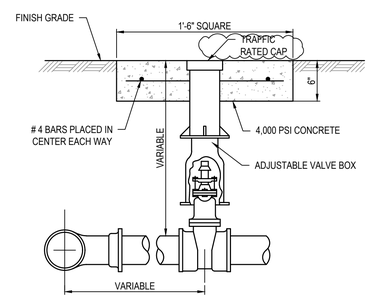
DV **DIVERSION BERM - TEMPORARY**
N.T.S.



VW **VEHICLE WASHDOWN AREA**
N.T.S.



VALLEY GUTTER
N.T.S.



TYPICAL GATE VALVE
N.T.S.

LBYD, Inc.
Civil and Structural Engineers
880 Montclair Road
Suite 600
Birmingham, AL 35213
Main (205) 251-4500
PROJECT NO. 133212.001

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NEW SOFTBALL COMPLEX FOR
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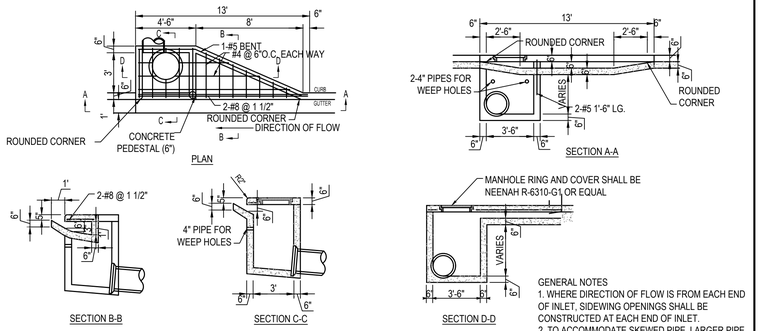
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 35177
09/13/24

SHEET TITLE:
CIVIL DETAILS

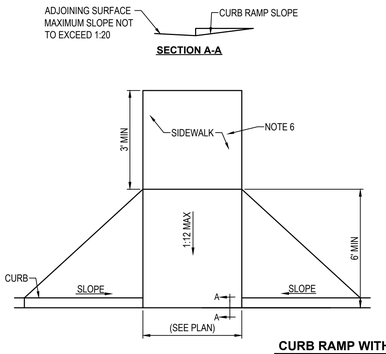
PROJ. MGR.: MTH
DRAWN: IJB
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
C7.1
13 OF 17



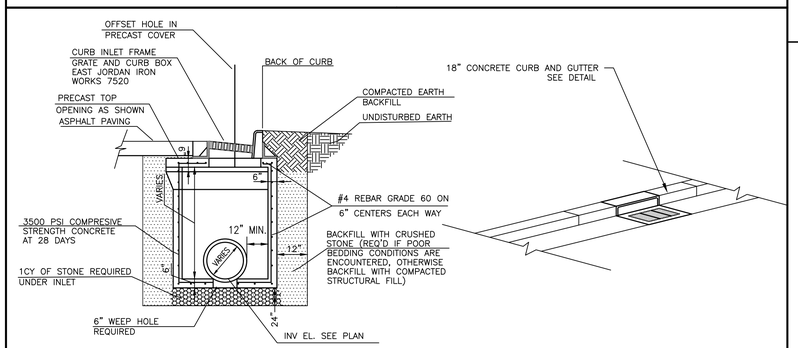
GENERAL NOTES
1. WHERE DIRECTION OF FLOW IS FROM EACH END OF INLET, SIDEWING OPENINGS SHALL BE CONSTRUCTED AT EACH END OF INLET.
2. TO ACCOMMODATE SKEWED PIPE, LARGER PIPE, SEVERAL PIPES, OR FIT OTHER CONDITIONS, IT MAY BE NECESSARY TO INCREASE ONE OR BOTH PLAN VIEW DIMENSIONS OF INLET BOX AND COVER SLAB.

SINGLE WING CURB INLET
N.T.S.

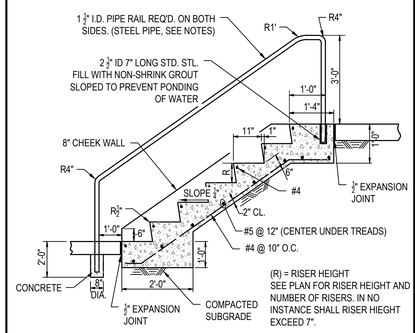


NOTES:
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN (INCLUDING CONTRASTING TEXTURES, AS REQUIRED).
2. TEXTURES SHALL CONSIST OF EXPOSED CRUSHED STONE AGGREGATE, ROUGHENED CONCRETE, RUBBER, RAISED ABRASIVE STRIPS, OR GROOVES EXTENDING THE FULL WIDTH AND DEPTH OF THE CURB RAMP. SURFACES THAT ARE RAISED, ETCHED, OR GROOVED IN A WAY THAT WOULD ALLOW WATER TO ACCUMULATE ARE PROHIBITED.
3. FOR PURPOSES OF WARNING, THE FULL WIDTH AND DEPTH OF CURB RAMPS SHALL HAVE A LIGHT REFLECTIVE VALUE AND TEXTURE THAT SIGNIFICANTLY CONTRASTS WITH THAT OF ADJOINING PEDESTRIAN ROUTES.
4. AT RAMPS OPPOSITE OUT-SWING DOORS, MINIMUM DISTANCE TO WALL IS 60".
5. CURB RAMPS AND THE FLARED SIDES OF CURB RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES,PARKING SPACES , OR PARKING ACCESS AISLES. CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES.
6. LANDINGS SHALL BE PROVIDED AT THE TOPS OF CURB RAMPS. THE LANDING CLEAR LENGTH SHALL BE 36 INCHES MINIMUM. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE CURB RAMP, EXCLUDING FLARED SIDES, LEADING TO THE LANDING.
7. RAMP FLARES SHALL BE NO STEEPER THAN 1:10. (FOR ALTERATIONS WHERE THERE IS NO LANDING, FLARE SLOPE SHALL BE NO STEEPER THAN 1:12.

CURB RAMP WITH SIDE FLARES
N.T.S.

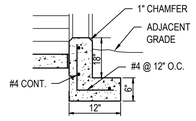


HOODED GRATE INLET
N.T.S.



SIDE ELEVATION

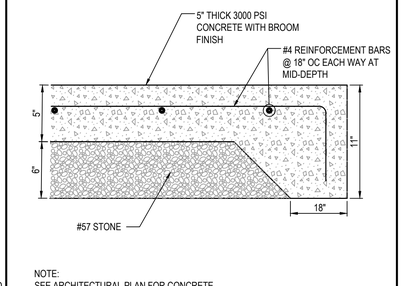
(R) = RISER HEIGHT
SEE PLAN FOR RISER HEIGHT AND NUMBER OF RISERS. IN NO INSTANCE SHALL RISER HIEGHT EXCEED 7".



CHEEK WALL SECTION

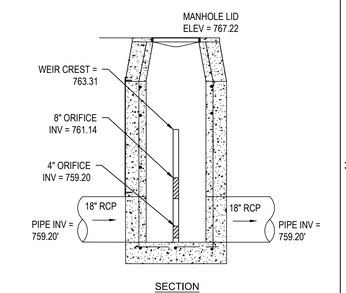
NOTES:
1. HANDRAIL TO BE HOT DIPPED GALVANIZED. ALL WELDS TO BE GROUND SMOOTH PRIOR TO PAINTING. PAINT HANDRAIL WITH BENJAMIN MOORE # 16362 COLOR - DEEP BRONZE. (APPROVED EQUAL - SHERWIN WILLIAMS - ALL SURFACE ENAMEL, BRONZETONE CUSTOM COLOR - CHESTNUT BRONZE).
2. ALL CONCRETE TO BE COLORED AS FOLLOWS:
- Synthetic Pigment: Medium Alabama Ochre at 12.5 lbs per yard, by Alabama Pigments Company, conforming to ASTM C979, synthetic mineral-oxide or water reducing admixtures, color stable, free of carbon black, non-fading, and resistant to lime and other alkalis
- Natural Pigment: Ochre #548 at 37.5 lbs per yard, by Southern Color or New Riverside in Cartersville, Georgia
3. 4,000 PSI CONCRETE UNLESS OTHERWISE STATED.
4. SEE PLAN FOR WIDTH OF STAIRS.
5. HANDRAIL SHALL BE LOCATED ON BOTH SIDES OF THE STAIRS ALONG CENTERLINE ALIGNMENT OF THE CHECK WALL.
6. ADDITIONAL HANDRAILS MAY BE REQUIRED FOR STAIR WIDTHS EXCEEDING 60". SEE PLAN FOR ADDITIONAL HANDRAILS.

Typical Concrete Stair Detail N.T.S.

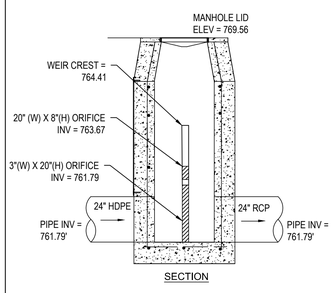


NOTE:
SEE ARCHITECTURAL PLAN FOR CONCRETE JOINTING.

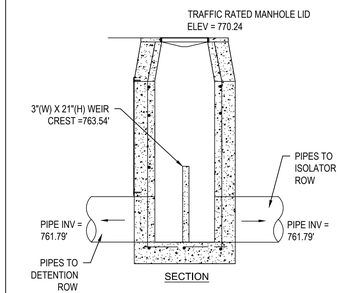
PAVING SECTION UNDER BLEACHERS
N.T.S.



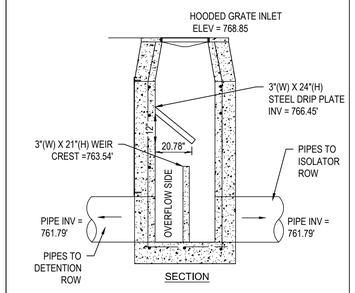
MANHOLE OUTLET CONTROL STRUCTURE A
N.T.S.



MANHOLE OUTLET CONTROL STRUCTURE B
N.T.S.



FLOW DIVERSION STRUCTURE #1
N.T.S.



FLOW DIVERSION STRUCTURE #2
N.T.S.

LBYD, Inc.
Civil and Structural Engineers
880 Montclair Road
Suite 600
Birmingham, AL 35213
Main (205) 251-4500
PROJECT NO.
133212.001

LATHAN ARCHITECTS
LATHAN ▪ BRYANT ▪ CALMA

NEW SOFTBALL COMPLEX FOR
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6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA LICENSED No. 35177 PROFESSIONAL ENGINEER
09/13/24

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PROJ. MGR.:	MTH
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SHEET NO:
C7.2
14 OF 17

0 1" 2"

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Suite 600
Birmingham, AL 35213
Main (205) 251-4500
PROJECT NO. 133212.001

LATHAN ARCHITECTS
LATHAN • BRYANT • CALMA

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER:	JOSEPH LEACH 470-432-1615 JOSEPH.LEACH@ADSPIPE.COM
ADS SALES REP:	BRAGG KNOTT 205-504-3745 BRAGG.KNOTT@ADSPIPE.COM
PROJECT NO:	S395147

ADS Advanced Drainage Systems, Inc.

ADS SiteAssist FOR STORMTECH INSTALLATION INSTRUCTIONS VISIT OUR WEBSITE

TRUSSVILLE SOFTBALL COMPLEX

TRUSSVILLE, AL

MC-3500 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH MC-3500.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

1. STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
10. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
11. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
2. THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

- **ATTENTION**: THIS DRAWING IS NOT INTENDED FOR USE IN BIDDING OR CONSTRUCTION WITHOUT THE PRIOR APPROVAL OF THE PROJECT'S ENGINEER OF RECORD (EOR). AS WITH ALL PROPOSED ADS LAYOUTS, THE EOR SHOULD REVIEW AND APPROVE THIS DRAWING PRIOR TO USE IN BIDDING AND/OR CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE EOR TO ENSURE THAT THE PRODUCT(S) DEPICTED AND THE ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

ADS SiteAssist FOR STORMTECH INSTALLATION INSTRUCTIONS VISIT OUR WEBSITE

SC-740 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-740.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-740 SYSTEM

1. STORMTECH SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-740 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

- **ATTENTION**: THIS DRAWING IS NOT INTENDED FOR USE IN BIDDING OR CONSTRUCTION WITHOUT THE PRIOR APPROVAL OF THE PROJECT'S ENGINEER OF RECORD (EOR). AS WITH ALL PROPOSED ADS LAYOUTS, THE EOR SHOULD REVIEW AND APPROVE THIS DRAWING PRIOR TO USE IN BIDDING AND/OR CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE EOR TO ENSURE THAT THE PRODUCT(S) DEPICTED AND THE ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

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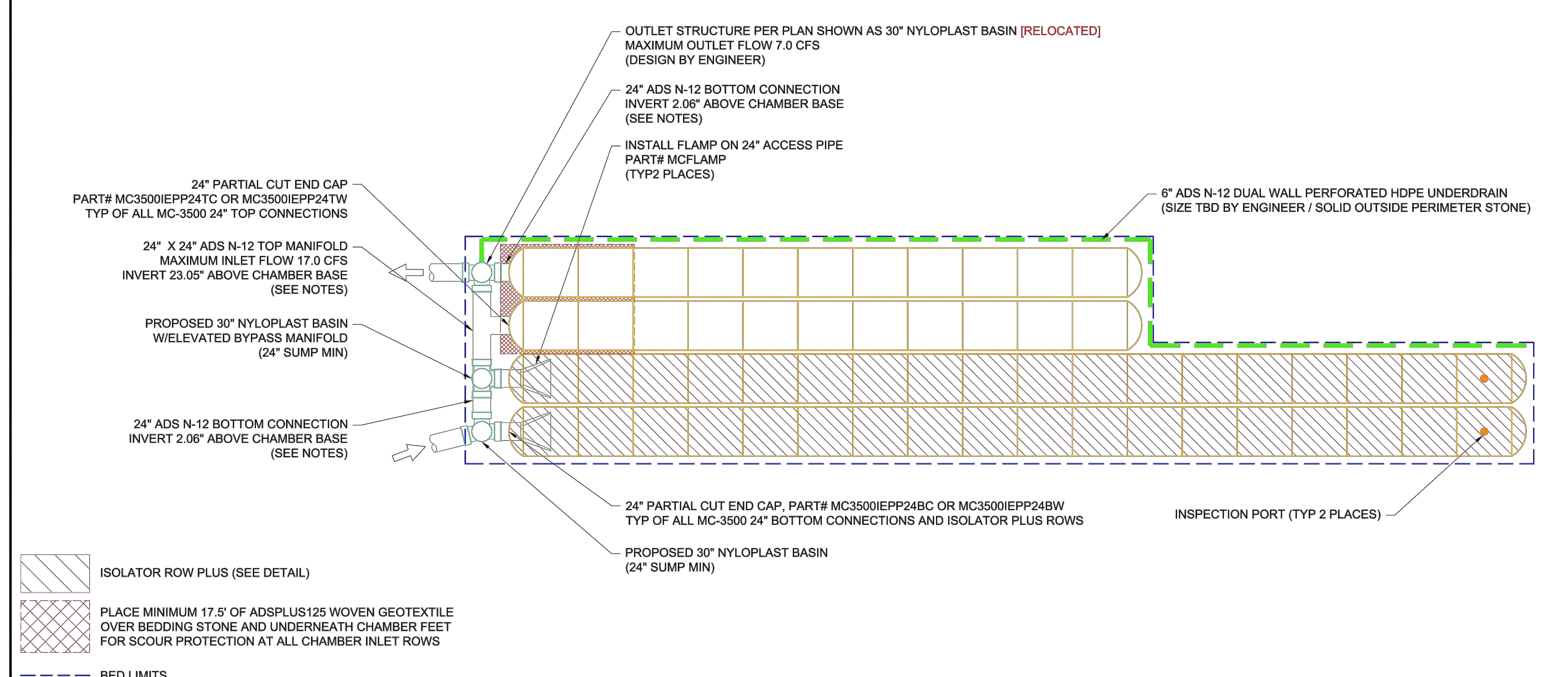
PROPOSED LAYOUT - A	
58	STORMTECH MC-3500 CHAMBERS
8	STORMTECH MC-3500 END CAPS
12	STONE ABOVE (in)
9	STONE BELOW (in)
40	% STONE VOID
11,490	**INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)**
3956	**WATER QUALITY VOLUME (CF)**
3451	SYSTEM AREA (ft^2)
338	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS - A	
771.70	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
765.70	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
765.20	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
765.20	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
765.20	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
764.70	TOP OF STONE
763.70	TOP OF MC-3500 CHAMBER
761.16	24" TOP MANIFOLD INVERT
760.12	24" ISOLATOR ROW PLUS CONNECTION INVERT
760.12	24" BOTTOM MANIFOLD INVERT
759.95	BOTTOM OF MC-3500 CHAMBER
759.20	UNDERDRAIN INVERT
759.20	BOTTOM OF STONE

NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
- STRUCTURES SHOWN ON THIS DESIGN ARE NOT INTENDED FOR MANWAY ACCESS. INSPECTION AND MAINTENANCE OF THE SYSTEM VIA THESE STRUCTURES IS RECOMMENDED TO BE COMPLETED WITH REMOTE CONTROLLED EQUIPMENT, OR ADHERE TO GUIDANCE BY PROFESSIONAL MAINTENANCE COMPANY.

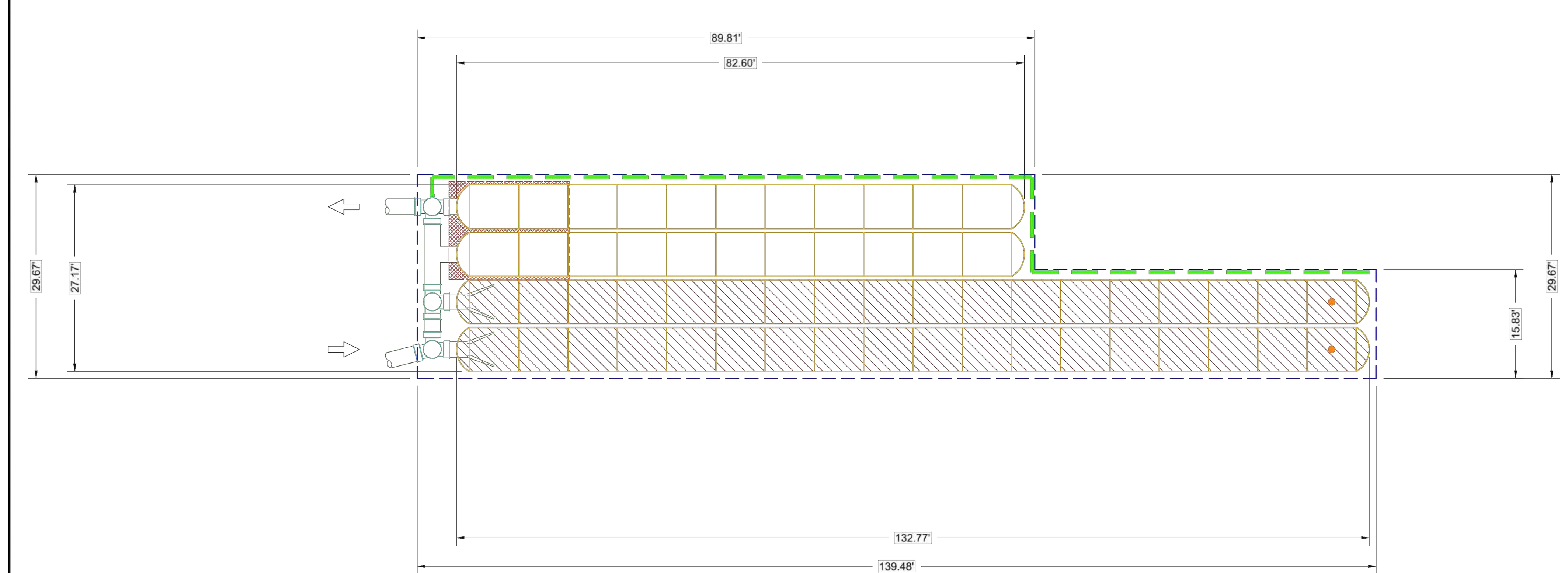
- **ATTENTION**: THIS DRAWING IS NOT INTENDED FOR USE IN BIDDING OR CONSTRUCTION WITHOUT THE PRIOR APPROVAL OF THE PROJECT'S ENGINEER OF RECORD (EOR). AS WITH ALL PROPOSED ADS LAYOUTS, THE EOR SHOULD REVIEW AND APPROVE THIS DRAWING PRIOR TO USE IN BIDDING AND/OR CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE EOR TO ENSURE THAT THE PRODUCT(S) DEPICTED AND THE ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.



TRUSSVILLE SOFTBALL COMPLEX
TRUSSVILLE, AL
DATE: 02-09-24 DRAWN: LAH
PROJECT #: S395147 CHECKED: XXX

StormTech® Chamber System
888-892-2694 | WWW.STORMTECH.COM
ADS 4640 TRUEMAN BLVD HILLIARD, OH 43026

SHEET 3 OF 11



TRUSSVILLE SOFTBALL COMPLEX
TRUSSVILLE, AL
DATE: 02-09-24 DRAWN: LAH
PROJECT #: S395147 CHECKED: XXX
StormTech® Chamber System
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ADS 4640 TRUEMAN BLVD HILLIARD, OH 43026

SHEET 4 OF 11

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA LICENSED No. 35177 PROFESSIONAL ENGINEER
03/13/24

SHEET TITLE:
CIVIL DETAILS

PROJ. MGR.: MTH
DRAWN: IJB
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO.
C7.3
15 OF 17

PROPOSED LAYOUT - B

151	STORMTECH SC-740 CHAMBERS
22	STORMTECH SC-740 END CAPS
6	STONE ABOVE (in)
6	STONE BELOW (in)
40	% STONE VOID
12,727	**INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)**
5560	**ISOLATOR ROW PLUS WATER QUALITY VOLUME PROVIDED (CF)**
6117	SYSTEM AREA (ft²)
386	SYSTEM PERIMETER (ft)

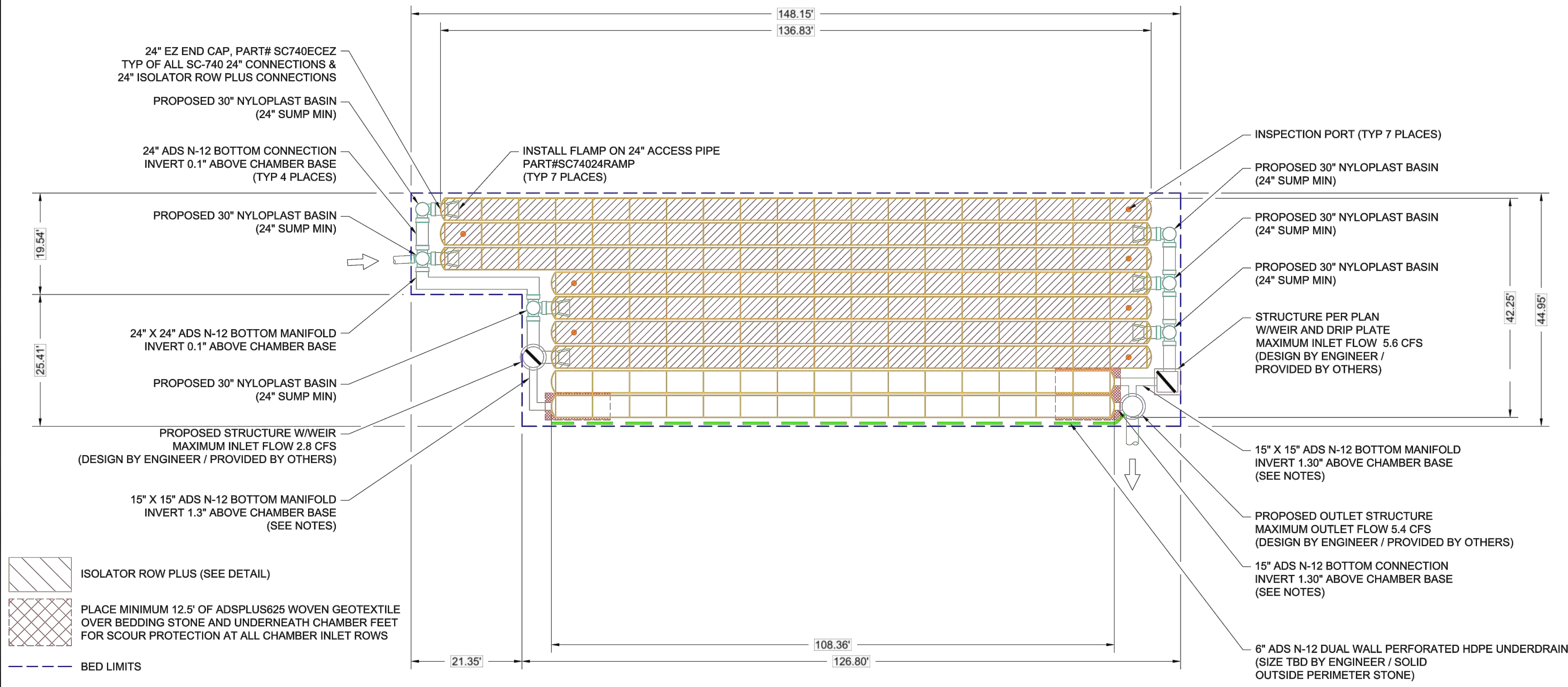
PROPOSED ELEVATIONS - B

772.62	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
766.62	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
766.12	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
766.12	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
766.12	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
765.12	TOP OF STONE
764.62	TOP OF SC-740 CHAMBER
762.23	15" BOTTOM MANIFOLD/CONNECTION INVERT
762.13	24" BOTTOM MANIFOLD / CONNECTION INVERT
762.13	24" ISOLATOR ROW PLUS CONNECTION INVERT
762.12	BOTTOM OF SC-740 CHAMBER
761.62	UNDERDRAIN INVERT
761.62	BOTTOM OF STONE

NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.

- **ATTENTION:** THIS DRAWING IS NOT INTENDED FOR USE IN BIDDING OR CONSTRUCTION WITHOUT THE PRIOR APPROVAL OF THE PROJECT'S ENGINEER OF RECORD (EOR). AS WITH ALL PROPOSED ADS LAYOUTS, THE EOR SHOULD REVIEW AND APPROVE THIS DRAWING PRIOR TO USE IN BIDDING AND/OR CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE EOR TO ENSURE THAT THE PRODUCT(S) DEPICTED AND THE ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

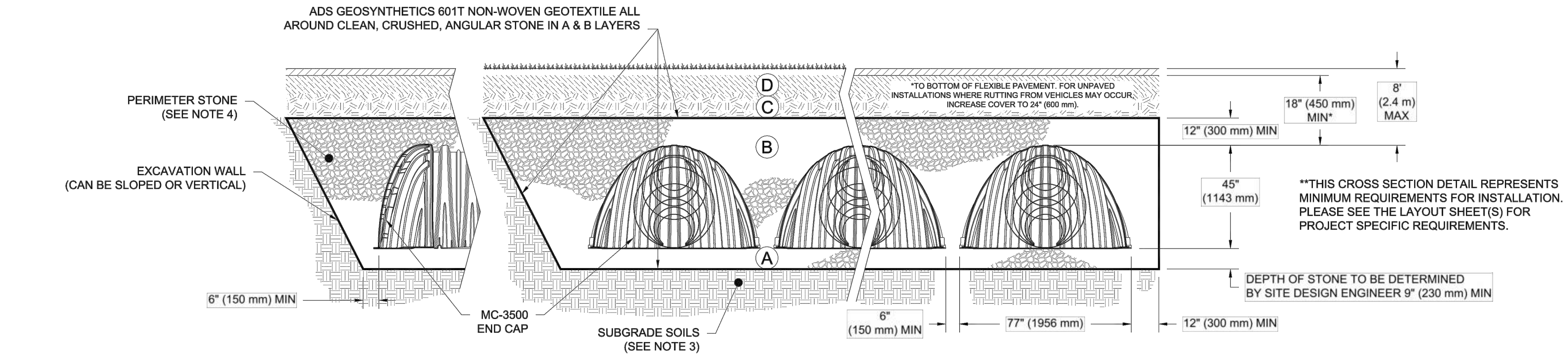


5 SHEET OF 11

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 18" (450 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

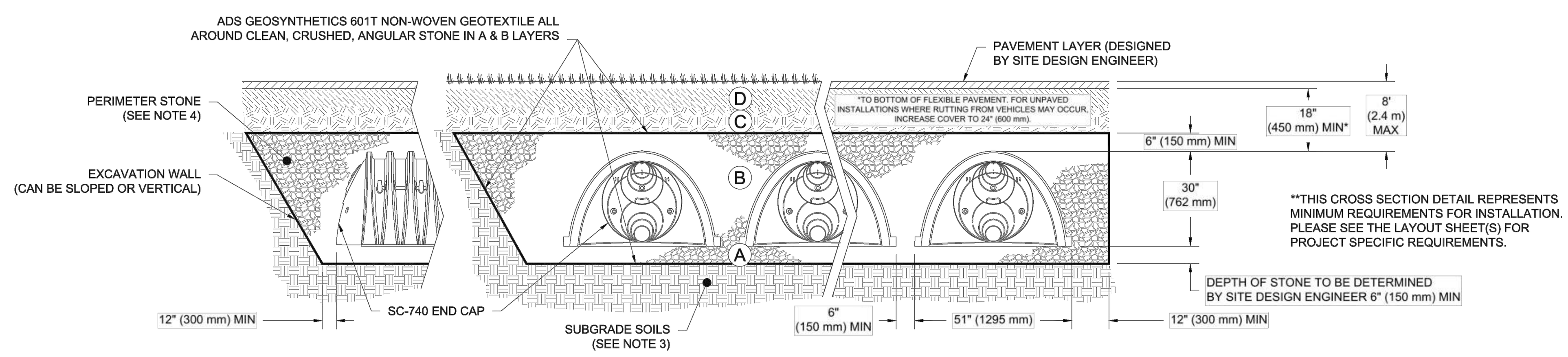
1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/%. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

6 SHEET OF 11

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/%. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

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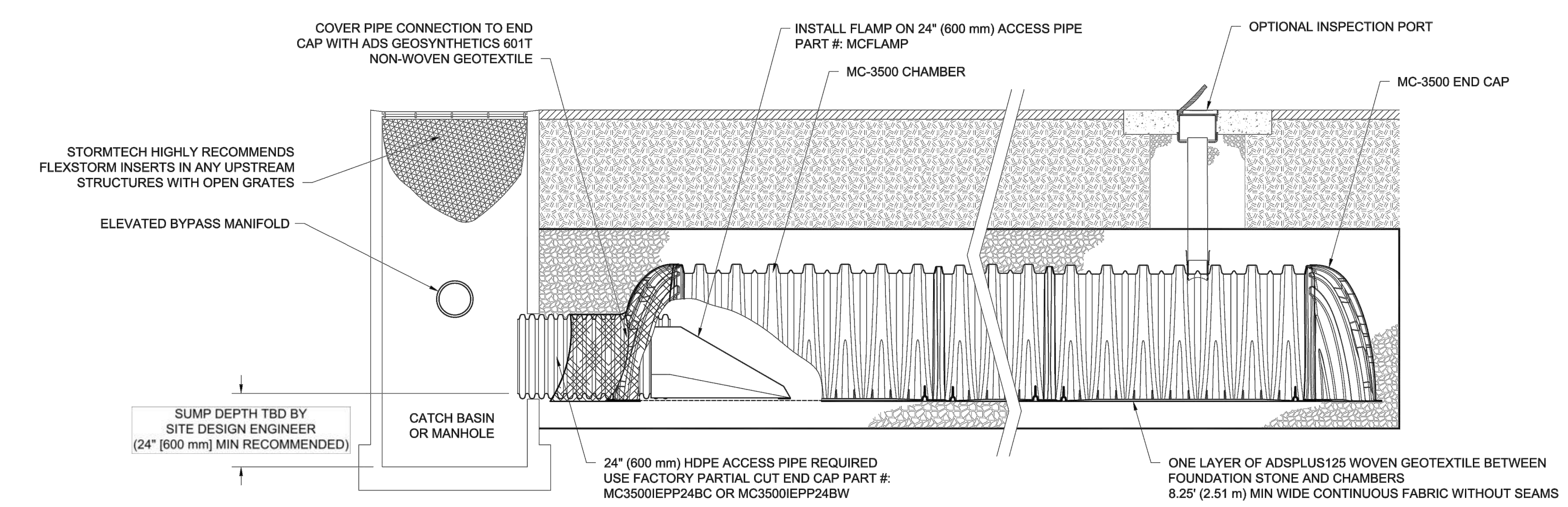


MC-3500 ISOLATOR ROW PLUS DETAIL
NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

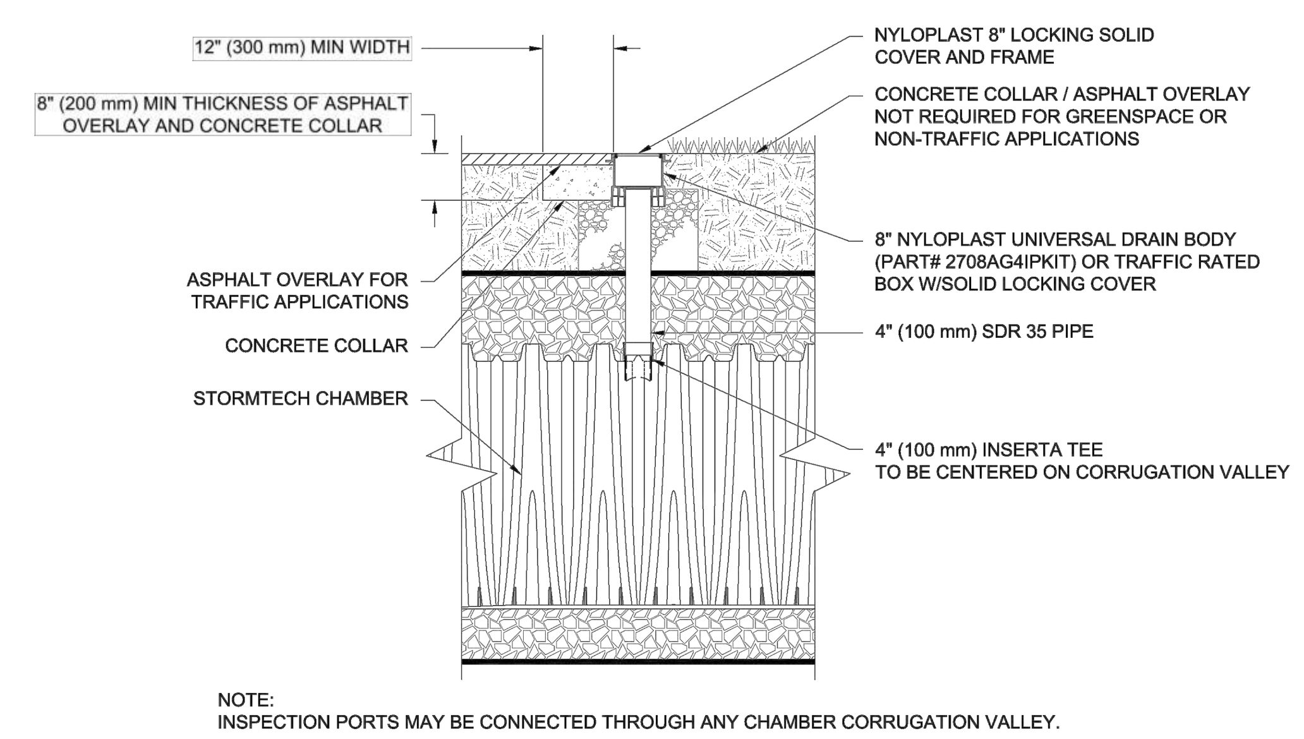
STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.

4" PVC INSPECTION PORT DETAIL (MC SERIES CHAMBER)
NTS

8 SHEET OF 11

StormTech® Chamber System — 888-892-2694 | WWW.STORMTECH.COM
ADS — 4640 TRUEMAN BLVD HILLIARD, OH 43026
TRUSSVILLE SOFTBALL COMPLEX, TRUSSVILLE, AL — DATE: 02-09-24 DRAWN: LAH PROJECT #: S395147 CHECKED: XXX

LBYD, Inc.
Civil and Structural Engineers
880 Montclair Road Suite 600
Birmingham, AL 35213
Main (205) 251-4500
PROJECT NO. 133212.001

LATHAN ARCHITECTS
LATHAN • BRYANT • CALMA

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

STATE OF ALABAMA LICENSED No. 35177 PROFESSIONAL ENGINEER — 03/13/24

SHEET TITLE: CIVIL DETAILS

PROJ. MGR.: MTH
DRAWN: IJB
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO: C7.4
16 OF 17

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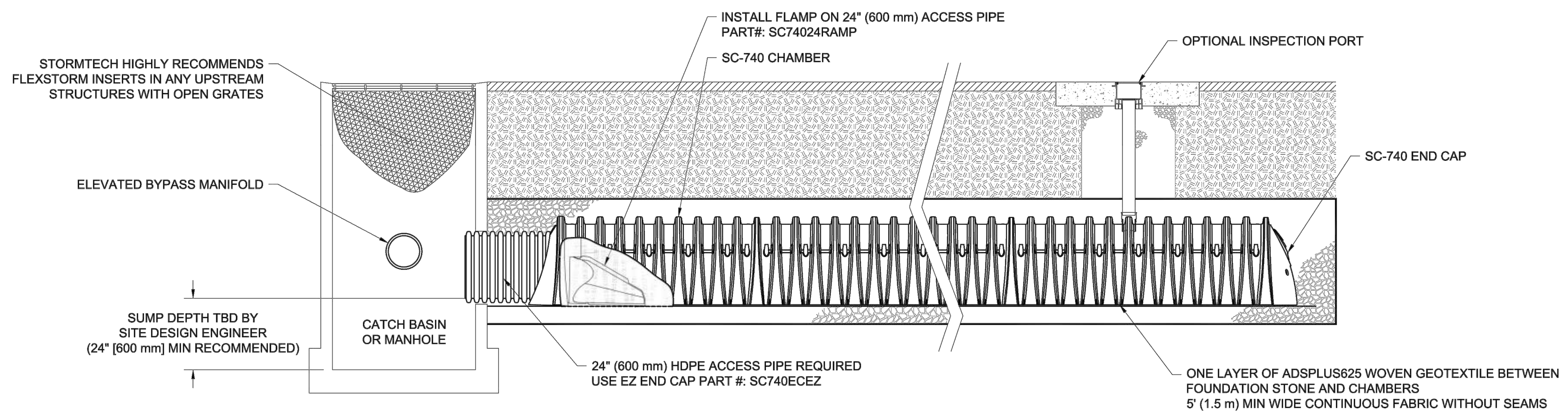

STORMTECH HIGHLY RECOMMENDS FLEXSTORM INSERTS IN ANY UPSTREAM STRUCTURES WITH OPEN GRATES
INSTALL FLAMP ON 24" (600 mm) ACCESS PIPE PART#: SC74024RAMP
SC-740 CHAMBER
OPTIONAL INSPECTION PORT
SC-740 END CAP
ELEVATED BYPASS MANIFOLD
SUMP DEPTH TBD BY SITE DESIGN ENGINEER (24" [600 mm] MIN RECOMMENDED)
CATCH BASIN OR MANHOLE
24" (600 mm) HDPE ACCESS PIPE REQUIRED USE EZ END CAP PART #: SC740ECEZ
ONE LAYER OF ADSPLUS625 WOVEN GEOTEXTILE BETWEEN FOUNDATION STONE AND CHAMBERS 5' (1.5 m) MIN WIDE CONTINUOUS FABRIC WITHOUT SEAMS

SC-740 ISOLATOR ROW PLUS DETAIL
NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

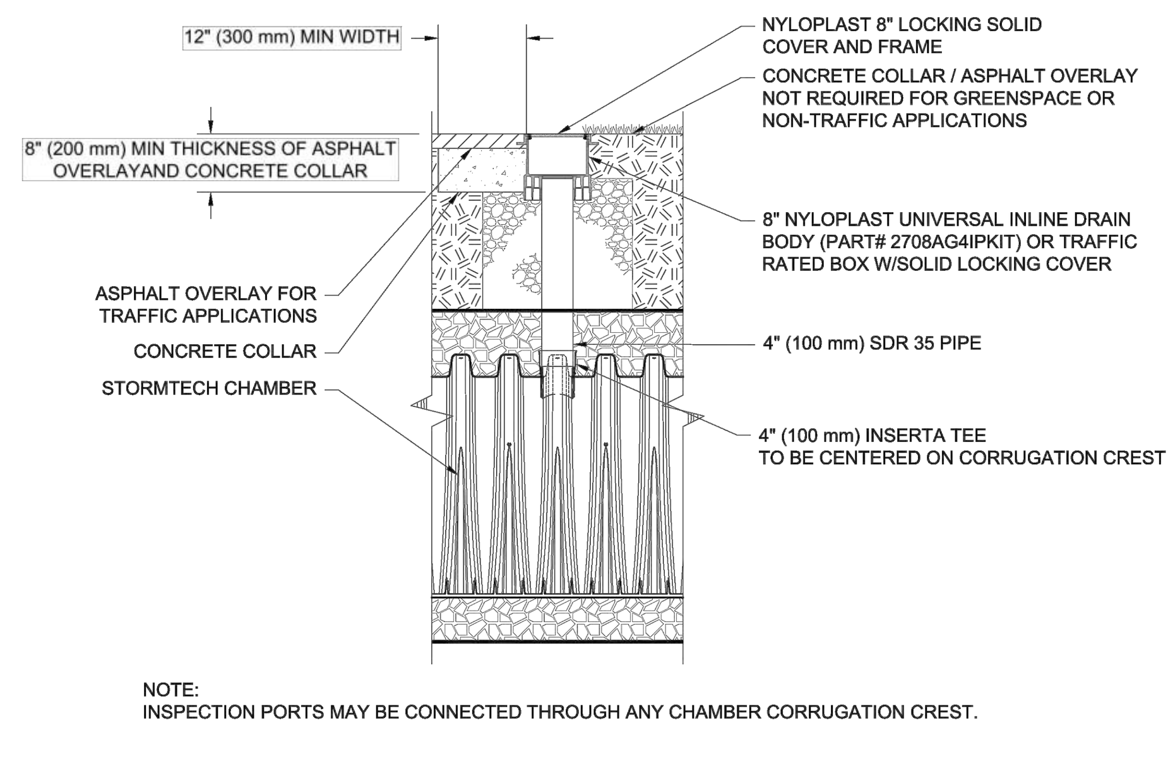
STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.


12" (300 mm) MIN WIDTH
8" (200 mm) MIN THICKNESS OF ASPHALT OVERLAY AND CONCRETE COLLAR
NYLOPLAST 8" LOCKING SOLID COVER AND FRAME
CONCRETE COLLAR / ASPHALT OVERLAY NOT REQUIRED FOR GREENSPACE OR NON-TRAFFIC APPLICATIONS
8" NYLOPLAST UNIVERSAL INLINE DRAIN BODY (PART# 2708AG4IPKIT) OR TRAFFIC RATED BOX W/SOLID LOCKING COVER
ASPHALT OVERLAY FOR TRAFFIC APPLICATIONS
CONCRETE COLLAR
4" (100 mm) SDR 35 PIPE
STORMTECH CHAMBER
4" (100 mm) INSERTA TEE TO BE CENTERED ON CORRUGATION CREST

NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)
NTS

TRUSSVILLE SOFTBALL COMPLEX — TRUSSVILLE, AL — DATE: 02-09-24 — DRAWN: LAH — PROJECT #: S395147 — CHECKED: XXX
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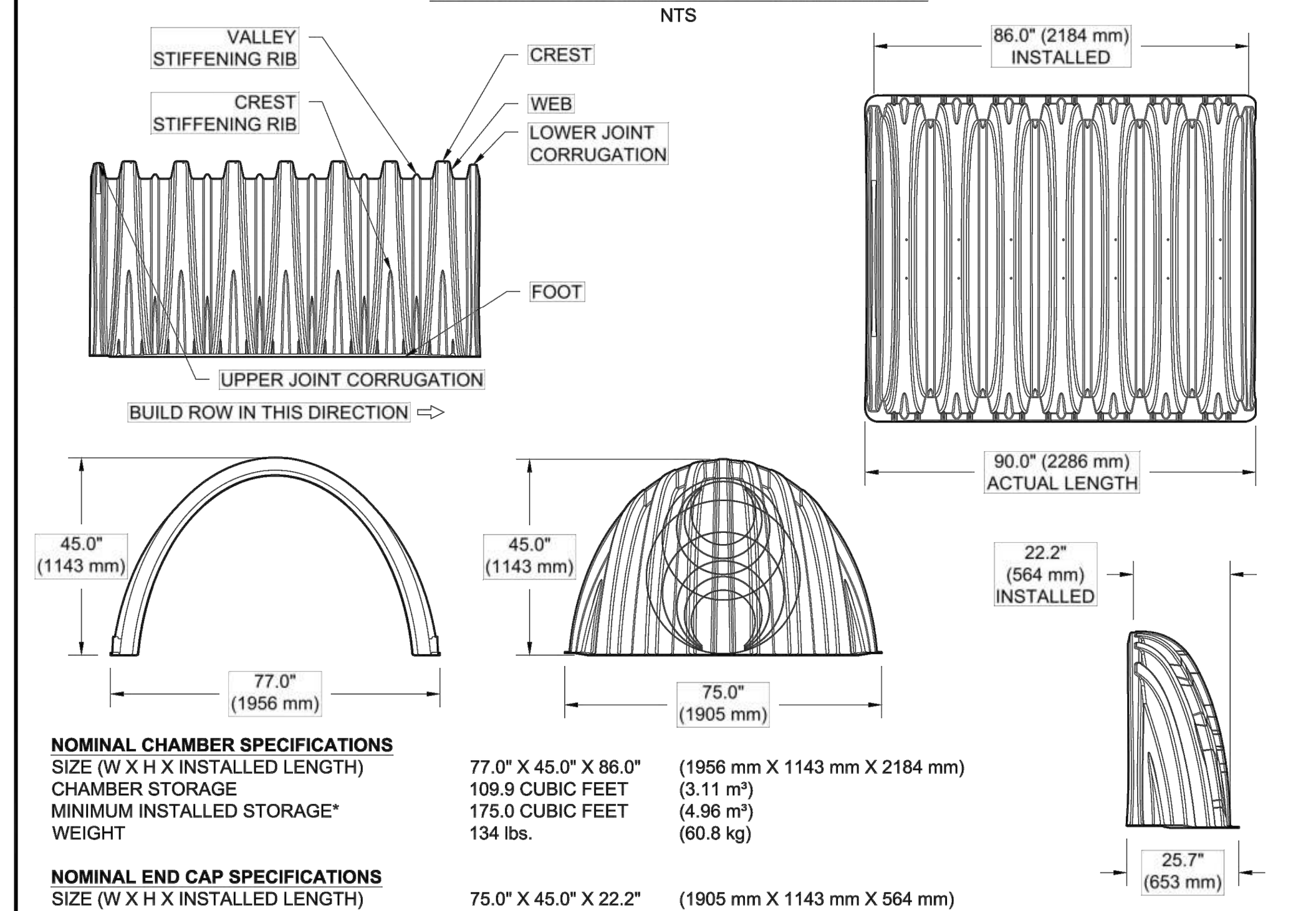
SHEET 9 OF 11

MC-3500 TECHNICAL SPECIFICATION
NTS


VALLEY STIFFENING RIB
CREST STIFFENING RIB
CREST
WEB
LOWER JOINT CORRUGATION
FOOT
UPPER JOINT CORRUGATION
BUILD ROW IN THIS DIRECTION
86.0" (2184 mm) INSTALLED
90.0" (2286 mm) ACTUAL LENGTH
45.0" (1143 mm)
77.0" (1956 mm)
75.0" (1905 mm)
22.2" (564 mm) INSTALLED
25.7" (653 mm)

NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	77.0" X 45.0" X 86.0"	(1956 mm X 1143 mm X 2184 mm)
CHAMBER STORAGE	109.9 CUBIC FEET	(3.11 m³)
MINIMUM INSTALLED STORAGE*	175.0 CUBIC FEET	(4.96 m³)
WEIGHT	134 lbs.	(60.8 kg)

NOMINAL END CAP SPECIFICATIONS

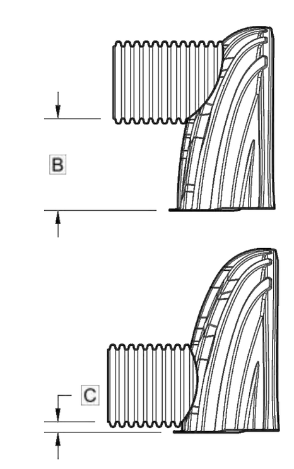
SIZE (W X H X INSTALLED LENGTH)	75.0" X 45.0" X 22.2"	(1905 mm X 1143 mm X 564 mm)
END CAP STORAGE	14.9 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	45.1 CUBIC FEET	(1.28 m³)
WEIGHT	49 lbs.	(22.2 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION, 6" (152 mm) STONE BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.

PARTIAL CUT HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PARTIAL CUT HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"
END CAPS WITH A WELDED CROWN PLATE END WITH "C"

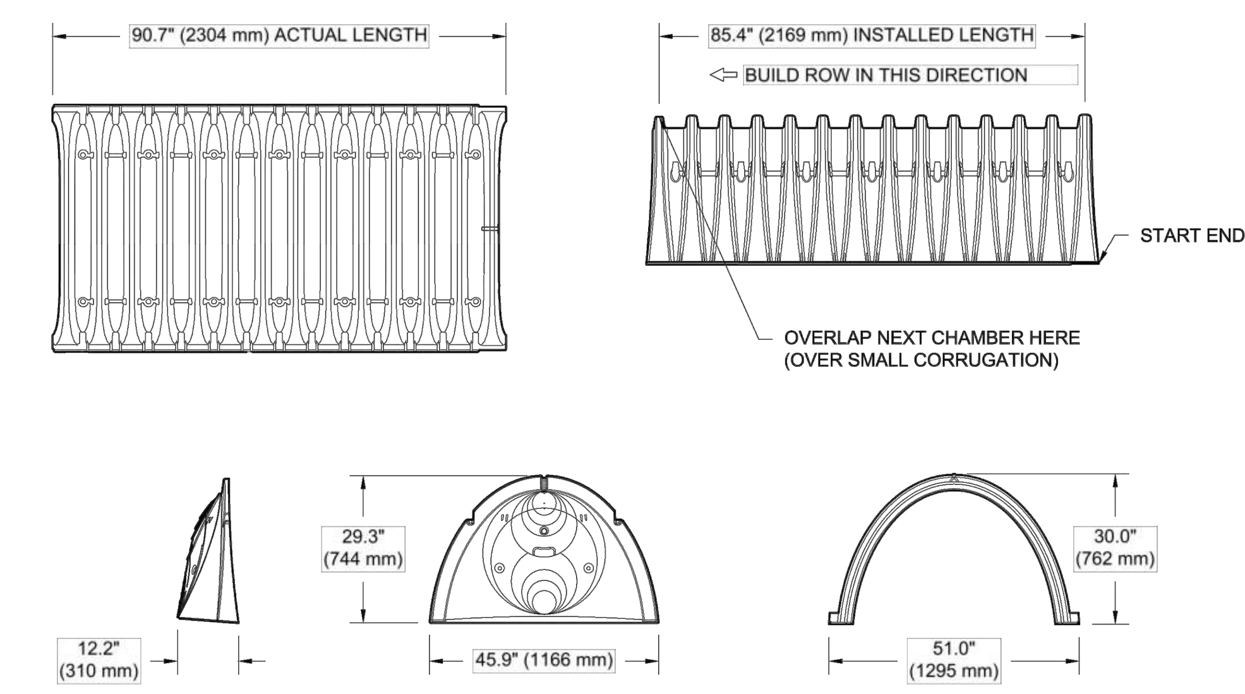
PART #	STUB	B	C
MC3500IEPP06T	6" (150 mm)	33.21" (844 mm)	---
MC3500IEPP06B		---	0.66" (17 mm)
MC3500IEPP08T	8" (200 mm)	31.16" (791 mm)	---
MC3500IEPP08B		---	0.81" (21 mm)
MC3500IEPP10T	10" (250 mm)	29.04" (738 mm)	---
MC3500IEPP10B		---	0.93" (24 mm)
MC3500IEPP12T	12" (300 mm)	26.36" (670 mm)	---
MC3500IEPP12B		---	1.35" (34 mm)
MC3500IEPP15T	15" (375 mm)	23.39" (594 mm)	---
MC3500IEPP15B		---	1.50" (38 mm)
MC3500IEPP18TC	18" (450 mm)	20.03" (509 mm)	---
MC3500IEPP18TW			
MC3500IEPP18BC		---	1.77" (45 mm)
MC3500IEPP18BW			
MC3500IEPP24TC	24" (600 mm)	14.48" (368 mm)	---
MC3500IEPP24TW			
MC3500IEPP24BC		---	2.06" (52 mm)
MC3500IEPP24BW			
MC3500IEPP30BC	30" (750 mm)	---	2.75" (70 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL



CUSTOM PARTIAL CUT INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

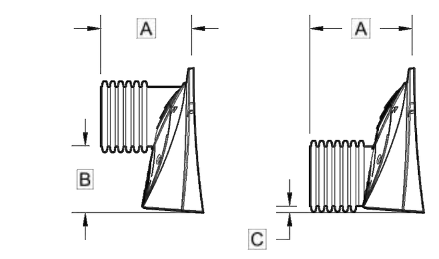
SC-740 TECHNICAL SPECIFICATION
NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	51.0" X 30.0" X 85.4"	(1295 mm X 762 mm X 2169 mm)
CHAMBER STORAGE	45.9 CUBIC FEET	(1.30 m³)
MINIMUM INSTALLED STORAGE*	74.9 CUBIC FEET	(2.12 m³)
WEIGHT	75.0 lbs.	(33.6 kg)

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS



PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"

PART #	STUB	A	B	C
SC740EPE06T / SC740EPE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	---
SC740EPE06B / SC740EPE06BPC			---	0.5" (13 mm)
SC740EPE08T /SC740EPE08TPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	---
SC740EPE08B / SC740EPE08BPC			---	0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	---
SC740EPE10B / SC740EPE10BPC			---	0.7" (18 mm)
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	---
SC740EPE12B / SC740EPE12BPC			---	1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	---
SC740EPE15B / SC740EPE15BPC			---	1.3" (33 mm)
SC740EPE18T / SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	---
SC740EPE18B / SC740EPE18BPC			---	1.6" (41 mm)
SC740ECEZ*	24" (600 mm)	18.5" (470 mm)	---	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740ECEZ ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC740ECEZ THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

TRUSSVILLE SOFTBALL COMPLEX — TRUSSVILLE, AL — DATE: 02-09-24 — DRAWN: LAH — PROJECT #: S395147 — CHECKED: XXX
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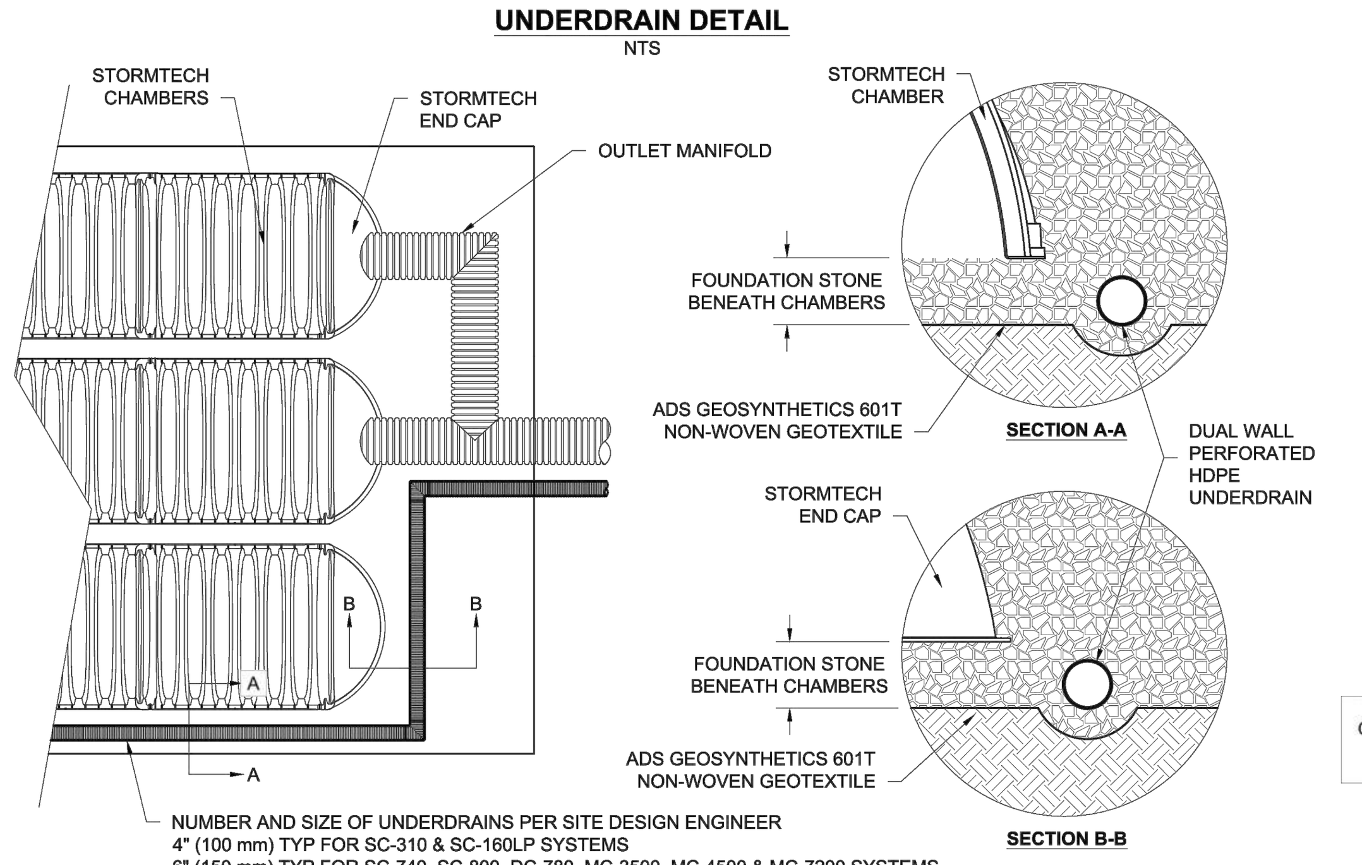
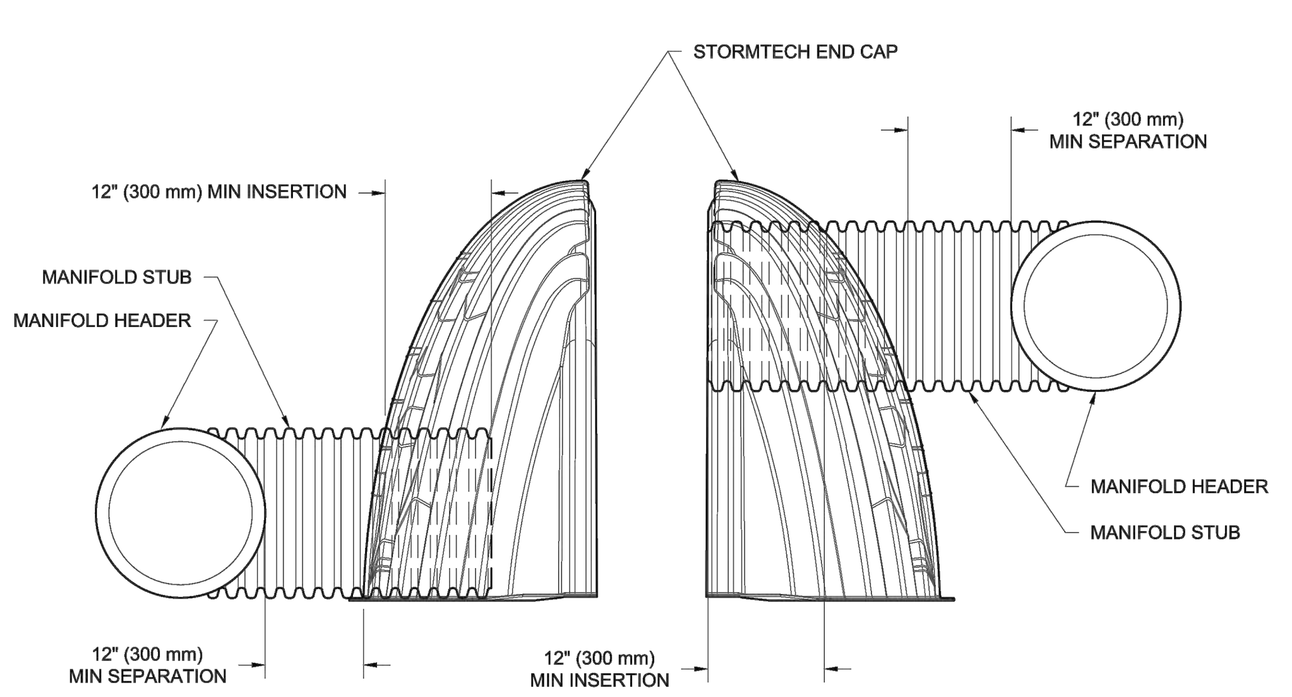
SHEET 10 OF 11

UNDERDRAIN DETAIL
NTS


STORMTECH CHAMBERS
STORMTECH END CAP
OUTLET MANIFOLD
STORMTECH CHAMBER
FOUNDATION STONE BENEATH CHAMBERS
ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE
SECTION A-A
DUAL WALL PERFORATED HDPE UNDERDRAIN
STORMTECH END CAP
FOUNDATION STONE BENEATH CHAMBERS
ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE
SECTION B-B

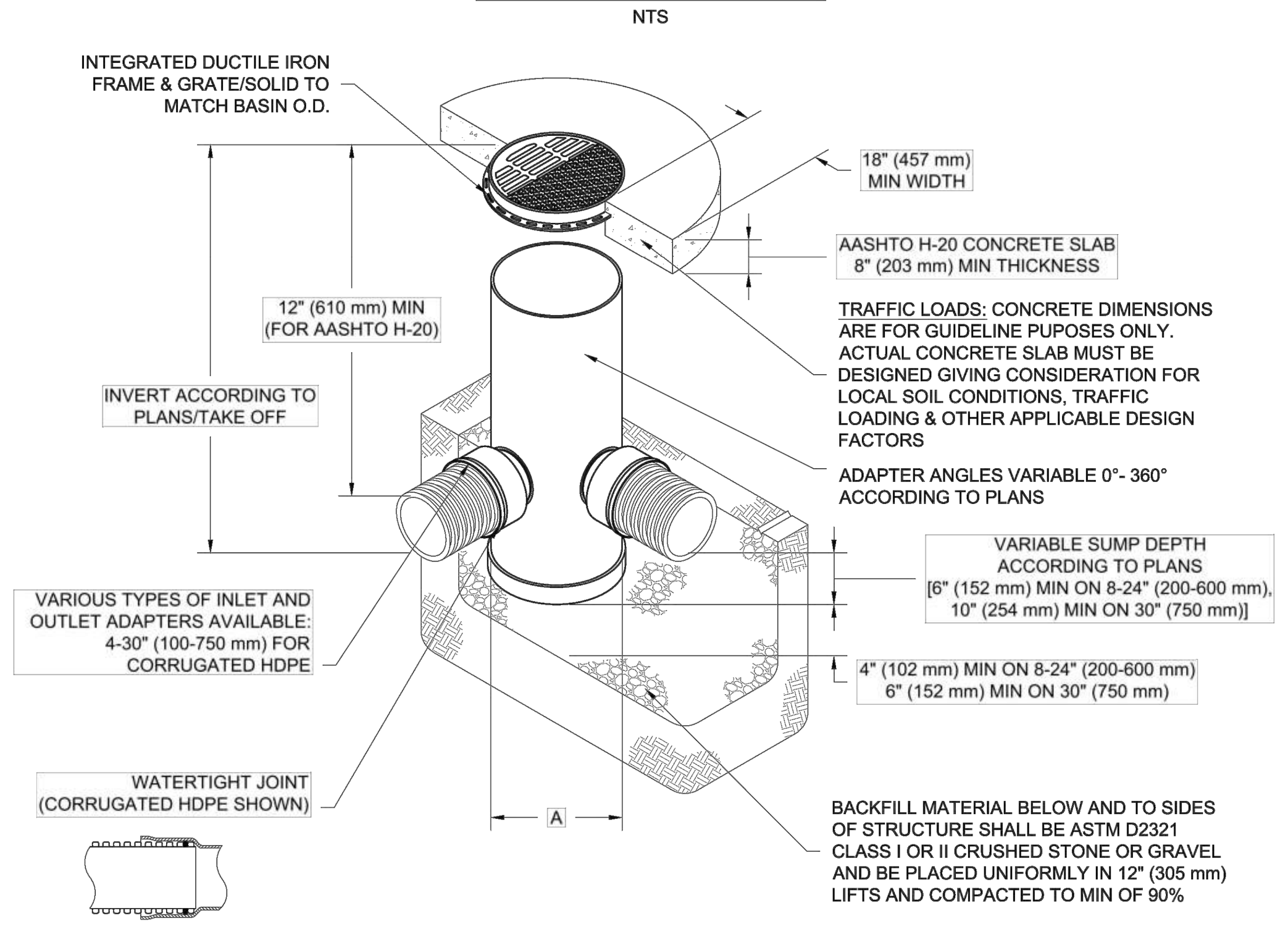
NUMBER AND SIZE OF UNDERDRAINS PER SITE DESIGN ENGINEER
4" (100 mm) TYP FOR SC-310 & SC-160LP SYSTEMS
6" (150 mm) TYP FOR SC-740, SC-800, DC-780, MC-3500, MC-4500 & MC-7200 SYSTEMS

MC-SERIES END CAP INSERTION DETAIL
NTS



NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

NYLOPLAST DRAIN BASIN
NTS

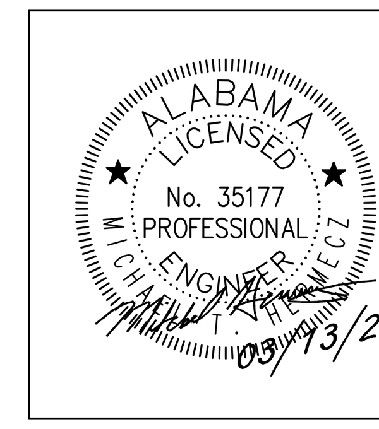

INTEGRATED DUCTILE IRON FRAME & GRATE/SOLID TO MATCH BASIN O.D.
18" (457 mm) MIN WIDTH
AASHTO H-20 CONCRETE SLAB 8" (203 mm) MIN THICKNESS
12" (610 mm) MIN (FOR AASHTO H-20)
INVERT ACCORDING TO PLANS/TAKE OFF
TRAFFIC LOADS: CONCRETE DIMENSIONS ARE FOR GUIDELINE PUPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED GIVING CONSIDERATION FOR LOCAL SOIL CONDITIONS, TRAFFIC LOADING & OTHER APPLICABLE DESIGN FACTORS
ADAPTER ANGLES VARIABLE 0°- 360° ACCORDING TO PLANS
VARIOUS TYPES OF INLET AND OUTLET ADAPTERS AVAILABLE: 4-30" (100-750 mm) FOR CORRUGATED HDPE
VARIABLE SUMP DEPTH ACCORDING TO PLANS [6" (152 mm) MIN ON 8-24" (200-600 mm), 10" (254 mm) MIN ON 30" (750 mm)]
4" (102 mm) MIN ON 8-24" (200-600 mm) 6" (152 mm) MIN ON 30" (750 mm)
WATERTIGHT JOINT (CORRUGATED HDPE SHOWN)
A
BACKFILL MATERIAL BELOW AND TO SIDES OF STRUCTURE SHALL BE ASTM D2321 CLASS I OR II CRUSHED STONE OR GRAVEL AND BE PLACED UNIFORMLY IN 12" (305 mm) LIFTS AND COMPACTED TO MIN OF 90%

NOTES

1. 8-30" (200-750 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
2. 12-30" (300-750 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
5. FOR COMPLETE DESIGN AND PRODUCT INFORMATION: **WWW.NYLOPLAST-US.COM**
6. TO ORDER CALL: **800-821-6710**

A	PART #	GRATE/SOLID COVER OPTIONS		
8" (200 mm)	2808AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
10" (250 mm)	2810AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
12" (300 mm)	2812AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
15" (375 mm)	2815AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
18" (450 mm)	2818AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
24" (600 mm)	2824AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
30" (750 mm)	2830AG	PEDESTRIAN AASHTO H-20	STANDARD AASHTO H-20	SOLID AASHTO H-20

TRUSSVILLE SOFTBALL COMPLEX — TRUSSVILLE, AL — DATE: 02-09-24 — DRAWN: LAH — PROJECT #: S395147 — CHECKED: XXX
Nyloplast® — 770-932-2443 | WWW.NYLOPLAST-US.COM — ADS 4640 TRUEMAN BLVD HILLIARD, OH 43026
SHEET 11 OF 11



SHEET TITLE:
CIVIL DETAILS

PROJ. MGR.: MTH
DRAWN: IJB
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
C7.5
17 OF 17

HNP
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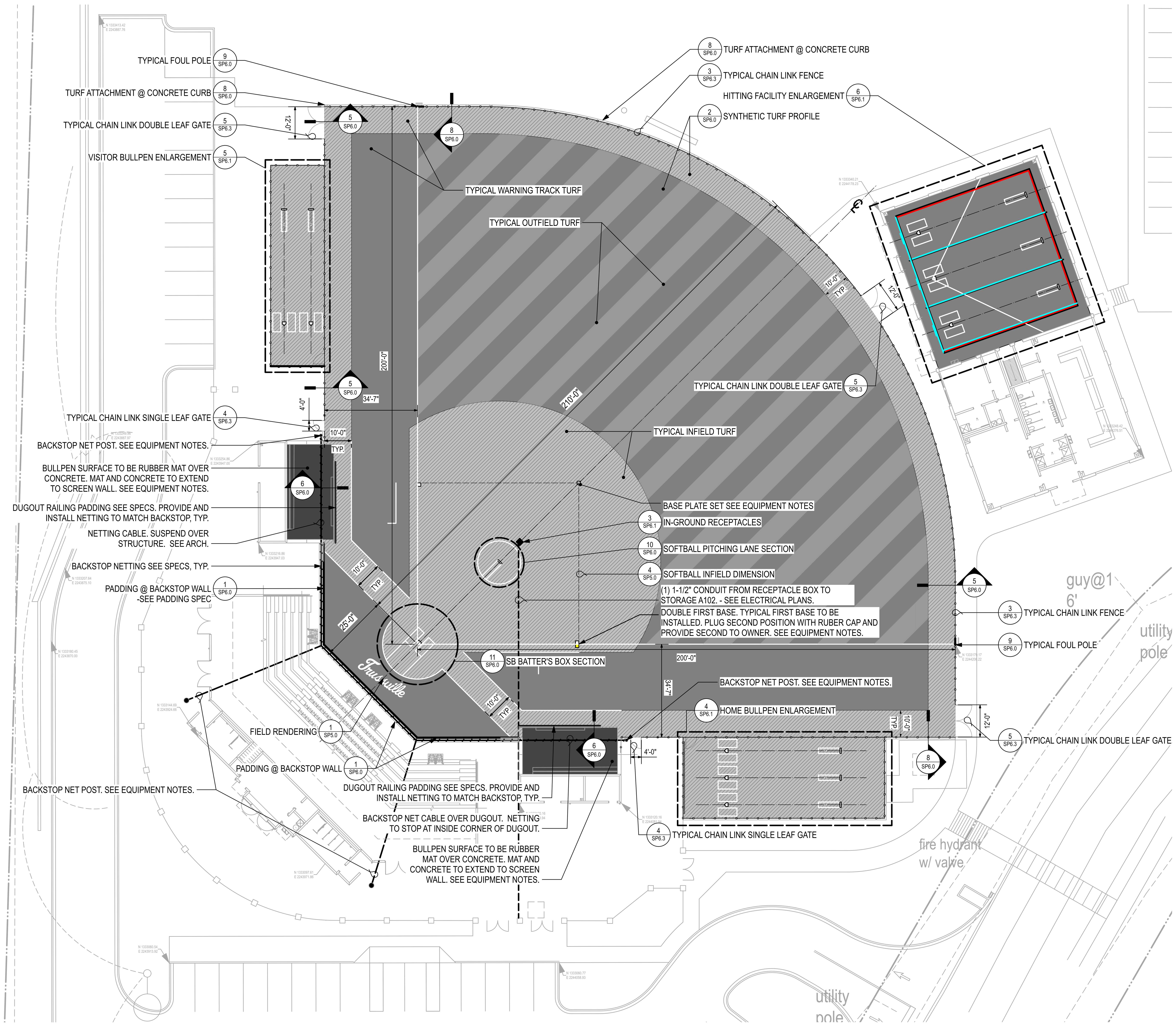

1 SP1.0 FIELD LAYOUT PLAN
Scale: 1" = 20'-0"

GENERAL NOTES:

1. ALL WORK WILL CONFORM TO ALL LOCAL, COUNTY AND STATE CODES AND REGULATIONS. OBTAIN ALL PERMITS, LICENSES, ETC. REQUIRED FOR EXECUTION OF WORK.
2. LAYOUT WORK AND VERIFY ALL DIMENSIONS PRIOR TO ACTUAL CONSTRUCTION. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BEFORE CONTINUING WORK. CONTRACTOR RESPONSIBLE FOR STAKING SITE LAYOUT, GRADES, AND LIMIT OF WORK. THE WORK SHALL BE PERFORMED/STAKED BY A LICENSED SURVEYOR.
3. CONDUCT ALL OPERATIONS TO AVOID DAMAGE TO OR DISTURBANCE OF EXISTING VEGETATION AND STRUCTURES TO REMAIN.
4. CLEAN-UP, REMOVE AND PROPERLY DISPOSE OF ALL DEBRIS, WASTE AND EXCESS CONSTRUCTION MATERIALS FOLLOWING COMPLETION AND LEAVE NEAT, CLEAN READY FOR OWNER'S USE.
5. ANY VARIATION FROM DRAWINGS OR SUBSTITUTIONS IN MATERIALS WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT ONLY.
6. THE CONTRACTOR SHALL, FOR HIS OWN PROTECTION, VERIFY THE PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION.
7. CHECK DIMENSIONS GIVEN ARE FOR FIELD VERIFICATION OF LAYOUT. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
8. CONSTRUCTION SAFETY - THE PRESENCE OF THE LANDSCAPE ARCHITECT, ITS EMPLOYEES, OR CONSULTANTS AT THE PROJECT SITE SHALL NOT BE DEEMED AN ASSUMPTION BY THE LANDSCAPE ARCHITECT OF ANY OBLIGATIONS, DUTIES, OR RESPONSIBILITIES FOR SAFETY, INCLUDING BUT NOT LIMITED TO CONSTRUCTION MEANS, METHODS, SEQUENCES, TECHNIQUES, OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING, OR COORDINATING THE WORK OF THE PROJECT IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS OR REGULATORY HEALTH OR SAFETY REQUIREMENTS, IF ANY. THE LANDSCAPE ARCHITECT, ITS EMPLOYEES, AND CONSULTANTS HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR, ITS EMPLOYEES, OR SUBCONTRACTORS IN CONNECTION WITH THEIR WORK OR HEALTH AND SAFETY PROGRAMS AND PROCEDURES.

EQUIPMENT NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR COORDINATING DELIVERY AND PROVIDING ALL LABOR AND EQUIPMENT NEEDED TO RECEIVE, UNLOAD, ASSEMBLE, HANDLE, AND INSTALL SITE EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
2. INSPECT PRODUCTS ON DELIVERY TO DETERMINE COMPLIANCE WITH THE CONTRACT DOCUMENTS AND TO DETERMINE THAT PRODUCTS ARE UNDAMAGED AND PROPERLY PROTECTED. CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING, REPORTING, AND/OR REJECTING DAMAGED EQUIPMENT TO THE MANUFACTURER'S SATISFACTION TO ENSURE TIMELY REPAIR/REPLACEMENT AT NO COST TO THE OWNER.
3. CONTRACTOR IS RESPONSIBLE TO PROTECT ALL EQUIPMENT FROM ANY/ALL DAMAGE, SOILING AND DETERIORATION FROM RECEIPT OF DELIVERY UNTIL SUBSTANTIAL COMPLETION. COMPLY WITH PRODUCT MANUFACTURER'S WRITTEN INSTRUCTION FOR TEMPERATURE, HUMIDITY, VENTILATION, AND WEATHER-PROTECTION REQUIREMENTS FOR STORAGE.
4. CONTRACTOR IS RESPONSIBLE TO REMEDY ALL DAMAGE TO EQUIPMENT PROVIDED UNDER THIS CONTRACT THROUGH REPLACEMENT OR REPAIR TO THE OWNER'S SATISFACTION AT NO COST TO THE OWNER.
5. NOMINAL TOUCH-UP OR REPAIR OF PAINTED FINISHES IS PERMITTED IF (A) DONE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED PROCEDURES AND MATERIALS (B) WILL NOT VOID ANY MANUFACTURER WARRANTY. THE RESULTANT REPAIRS SHALL APPEAR TO BE AS LIKE NEW CONDITION AS APPROVED BY THE LANDSCAPE ARCHITECT/OWNER IN ACCEPTANCE OF THE WORK AT NO COST TO THE OWNER.

FIELD EQUIPMENT NOTES:

1. FIELD HOME PLATE - SCHUTT® HOLLYWOOD BURY ALL HOME PLATE OR APPROVED SUBSTITUTE. 1/4" REVEAL. SEE DETAIL.
2. FIELD BASES - SCHUTT® ORIGINAL JACK CORBETT® MLB® HOLLYWOOD BASE SET WITH CORRESPONDING GROUND ANCHOR MOUNTS AND PLUGS OR APPROVED SUBSTITUTE. SOFTBALL DOUBLE FIRST BASE- HOLLYWOOD IMPACT® DOUBLE FIRST BASE SET WITH CORRESPONDING GROUND ANCHOR MOUNTS AND PLUGS OR APPROVED SUBSTITUTE..
3. FIELD PITCHING CIRCLE - SEE DETAIL - (1) BULLDOG 4"-SIDED PITCHING RUBBER OR APPROVED SUBSTITUTE.
4. BULLPEN HOME PLATE - (1) SCHUTT® HOLLYWOOD BURY ALL HOME PLATE OR APPROVED SUBSTITUTE. 1/4" REVEAL. PER LANE
5. BULLPEN PITCHING RUBBER- (1) BULLDOG 4"-SIDED PITCHING RUBBER OR APPROVED SUBSTITUTE. PER LANE, SEE DETAILS.
6. HITTING CAGE- SEE DETAIL
7. FOUL POLES - SEE DETAIL
8. PADDING - SEE SPECIFICATIONS
9. PITCHING MATS-PROVIDED BY OWNER.
10. BATTING MATS-PROVIDED BY OWNER.
11. PLYOWALL RUBBER MAT- 1/2" THICK X 4' WIDTH, ROLL MATERIAL. BY AMERICAN FLOOR MATS OR APPROVED SUBSTITUTE.
12. DUGOUT FLOOR MAT- 3/4" THICK 2X2 INTERLOCKING TILES BY AMERICAN FLOOR MATS OR APPROVED SUBSTITUTE. CUT EDGE STRAIGHT TO FINISH OR PROVIDE CORRESPONDING INTERLOCKING EDGE PIECE. MIN 8" PIECE AT ANY EDGE.
13. BACKSTOP NET POST - 4-POLE TIE-BACK SYSTEM. CONTRACTOR TO PROVIDE ENGINEER-STAMPED, DESIGN/BUILD SHOP DRAWINGS FOR LANDSCAPE ARCHITECT APPROVAL. SEE ARCHITECTURE DRAWINGS FOR CLEAR HT OVER GRANDSTAND. LOCATE POSTS AS SHOWN.

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NEW SOFTBALL COMPLEX FOR
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TRUSSVILLE CITY BOARD OF EDUCATION

STATE OF ALABAMA · SEAN MICHAEL HUGHES · NUMBER 755 · REGISTERED LANDSCAPE ARCHITECT
03/13/24

SHEET TITLE:
LAYOUT AND MATERIAL PLAN

PROJ. MGR.: R. VERNON
DRAWN: DMW
DATE: 03/13/24 100% BID SET
REVISIONS

JOB NO. 23-72
SHEET NO:
SP1.0

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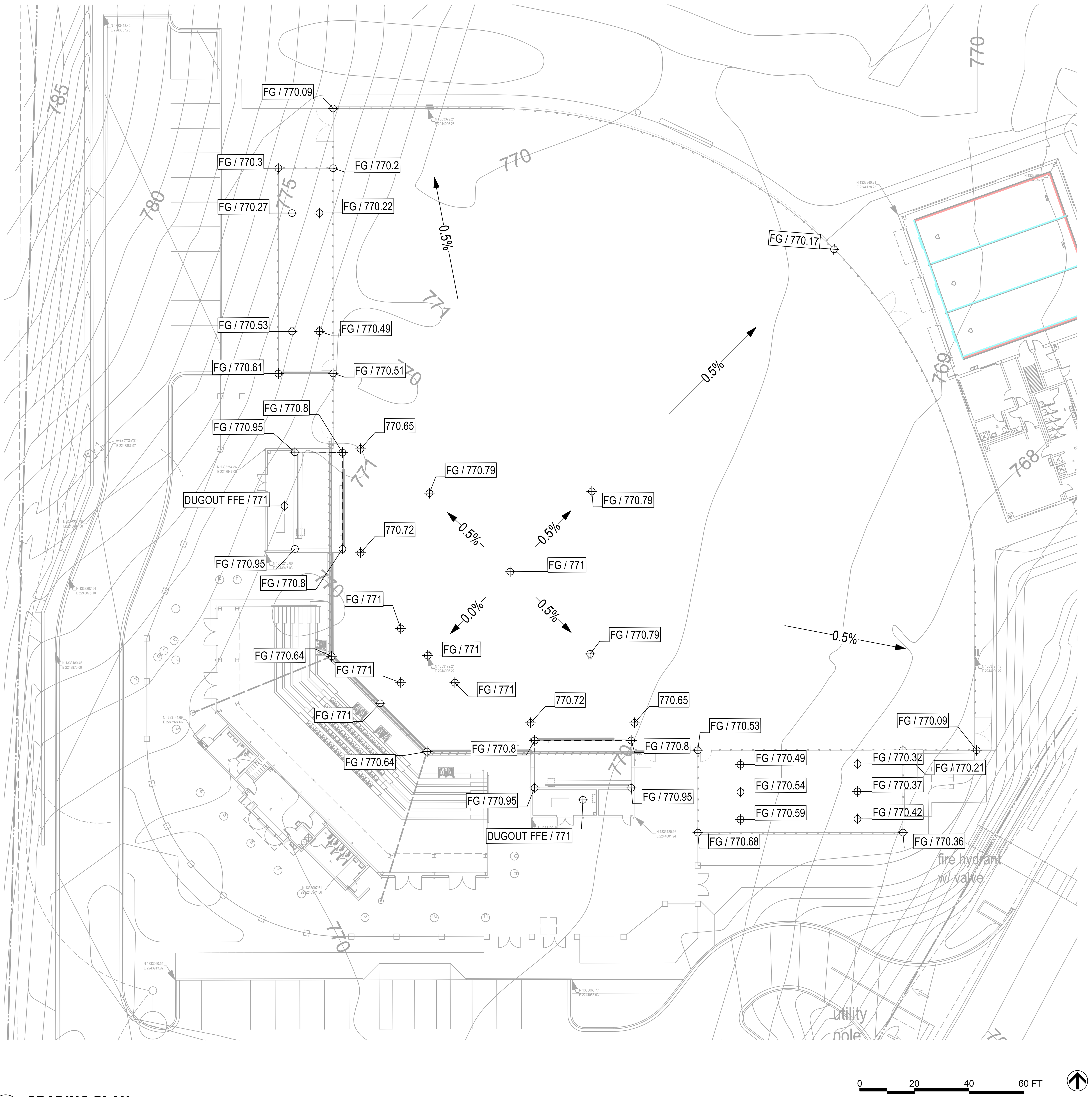

1 SP2.0 **GRADING PLAN**
Scale: 1" = 20'-0"

SITE GRADING NOTES:

1. CONTRACTOR TO GRADE SITE AS SHOWN.
2. TEMPORARY WATTLE TO BE INSTALLED AROUND EACH STORM SEWER INLET IN A MANNER THAT WILL INSURE NO MUD, SILT, OR DEBRIS WILL FLOW THROUGH STORM SEWER SYSTEM. THESE EROSION AND SEDIMENTATION CONTROLS SHALL BE IN PLACE AND MAINTAINED UNTIL INSTALLATION OF SOD OR UNTIL COMPLETION OF PLANTING AND MULCHING.
3. SHOULD ANY MUD, SILT, OR DEBRIS BE WASHED ON OR IN TO ANY ADJACENT PROPERTY, STREET OR STORM SEWER, CONTRACTOR IS TO REMOVE SUCH AT ONCE.
4. ALL CONSTRUCTION MATERIALS STORED ON SITE THAT MAY CONTAIN POLLUTANTS, SHALL BE STORED IN COVERED AREAS THAT WILL NOT ALLOW POLLUTANTS TO ESCAPE. ALL SUCH MATERIAL SHALL BE REMOVED FROM SITE AT THE END OF CONSTRUCTION AND BE DISPOSED OF ACCORDING TO APPLICABLE ORDINANCES.
5. CONTRACTOR RESPONSIBLE TO FINE GRADE SUCH THAT POSITIVE DRAINAGE IS MAINTAINED ON ALL SURFACES AT ALL TIMES
6. CONTRACTOR SHALL MAINTAIN "BEST MANAGEMENT PRACTICES" AND ADHERE TO RECOMMENDATIONS AS OUTLINED IN U.S. DEPARTMENT OR TRANSPORTATION REPORT NO. FHWA-FL-94-005 "BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL".

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TRUSSVILLE CITY BOARD OF EDUCATION

STATE OF ALABAMA — REGISTERED LANDSCAPE ARCHITECT
03/13/24

SHEET TITLE:
GRADING PLAN

PROJ. MGR.: R. VERNON
DRAWN: DMW
DATE: 03/13/24 100% BID SET
REVISIONS

JOB NO. 23-72
SHEET NO:
SP2.0
2 OF 13

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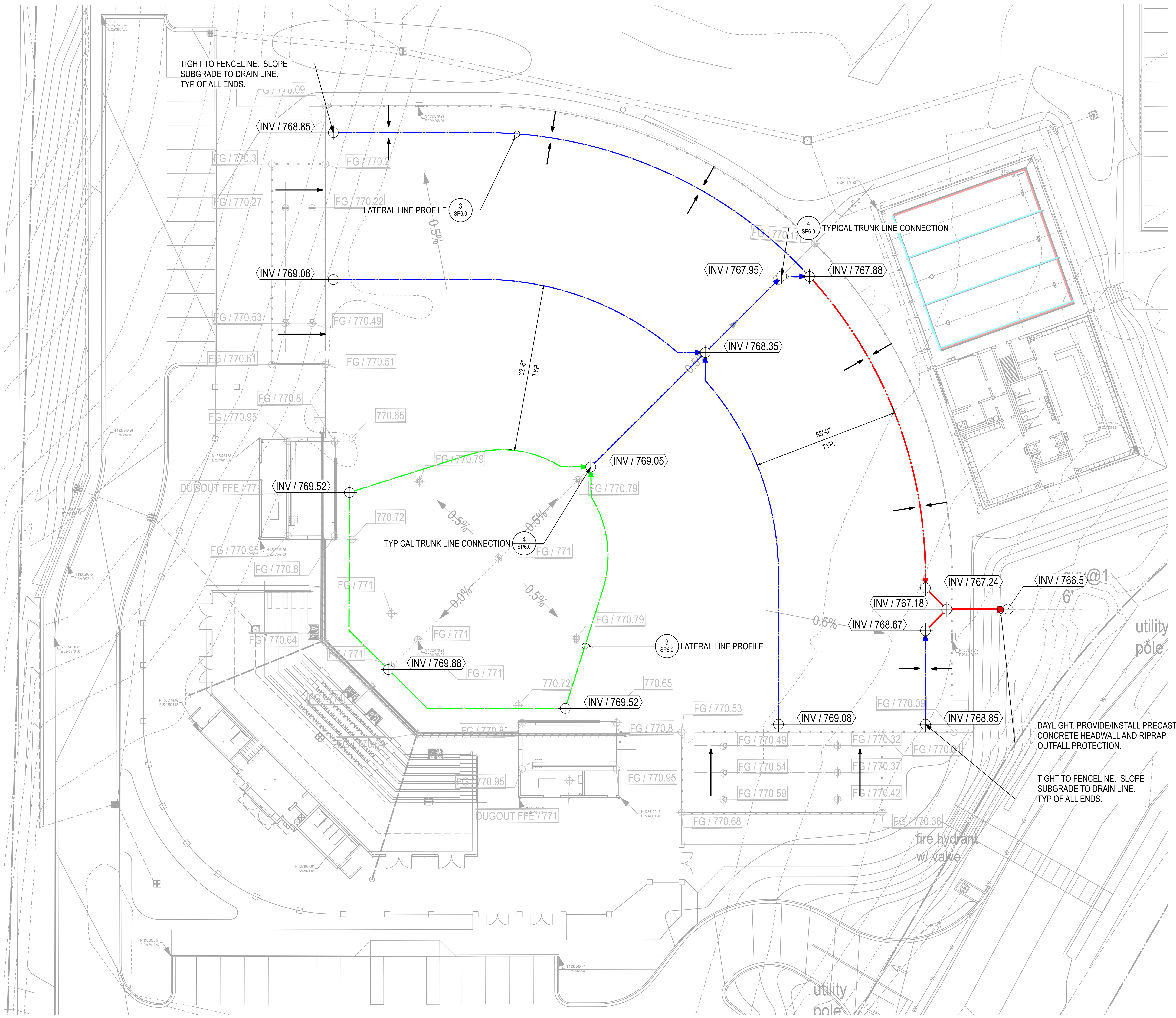

DRAIN LINES @ MIN. 0.5% SLOPE

- 12" DIA ADS, N-12 PERF
- 8" DIA ADS, N-12 PERF
- 6" DIA ADS, N-12 PERF
- 12" DIA ADS, N-12 SOLID

1 / SP3.0 DRAINAGE PLAN
Scale: 1" = 20'-0"

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STATE OF ALABAMA REGISTERED LANDSCAPE ARCHITECT SEAN MICHAEL HUGHES 03/13/24

SHEET TITLE:
SUBSURFACE DRAINAGE PLAN

PROJ. MGR.: R. VERNON
DRAWN: DMW

DATE: 03/13/24 100% BID SET
REVISIONS

JOB NO. 23-72
SHEET NO:
SP3.0
3 OF 13

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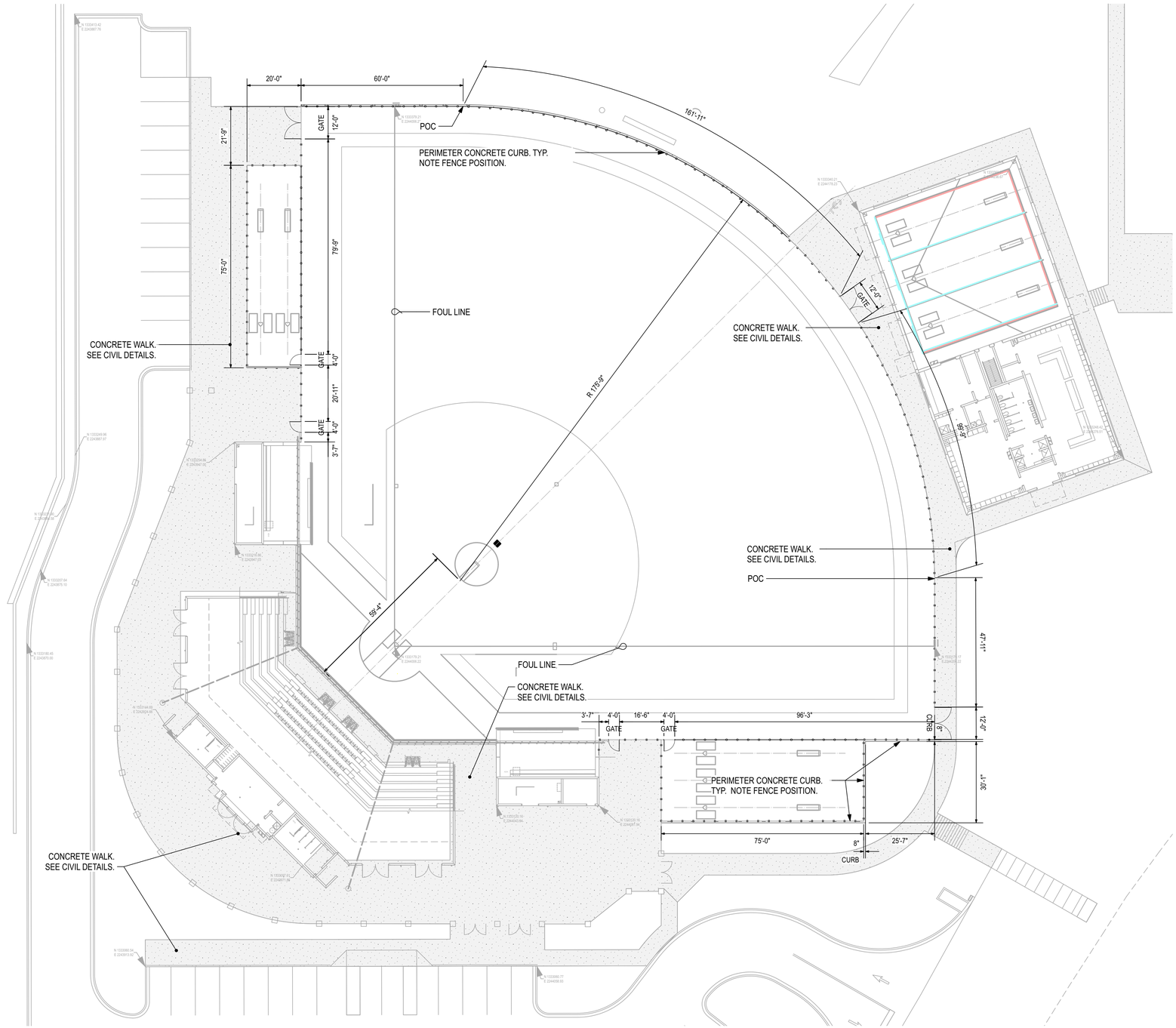

0 20 40 60 FT

1 SP4.0 CONCRETE CURB AND SLAB DIMENSION PLAN
Scale: 1" = 20'-0"

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STATE OF ALABAMA
SEAN MICHAEL KENNEDY
NUMBER 759
REGISTERED LANDSCAPE ARCHITECT
03/13/24

SHEET TITLE:
DIMENSION PLAN

PROJ. MGR.: R. VERNON
DRAWN: DMW
DATE:03/13/24 100% BID SET
REVISIONS

JOB NO. 23-72
SHEET NO:
SP4.0
4 OF 13

0 1" 2"

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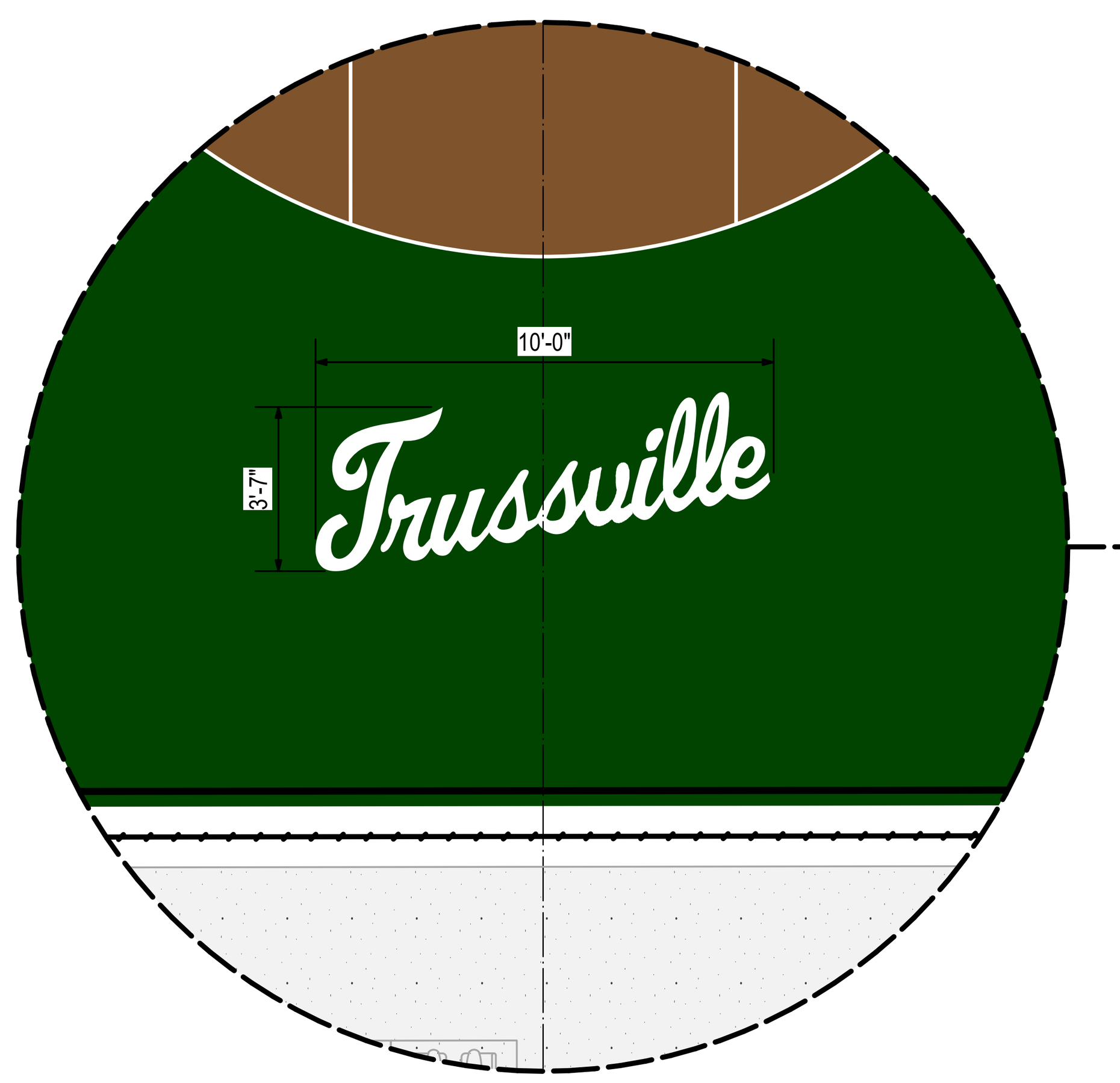
ARCHITECTS

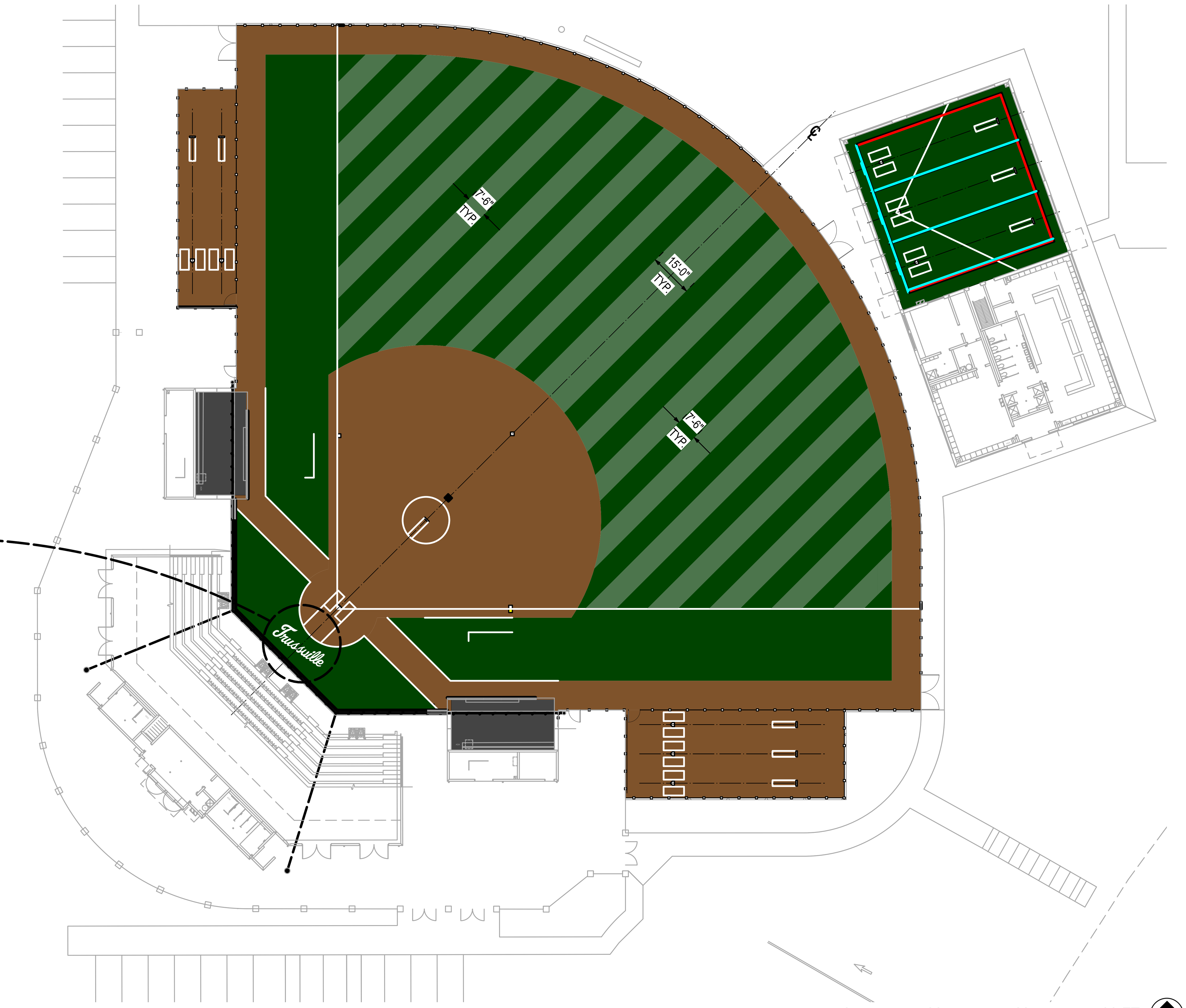
SYNTHETIC TURF MARKINGS NOTES:

1. LAYOUT ACCORDING TO NFHS REGULATIONS.
2. ALL FIELD MARKINGS TO BE COLORED TURF STRANDS; NOT PAINT.
3. TURF STRANDS -FINAL COLORS TBD BY OWNER
4. TRUSSVILLE SCRIPT LOGO-SIZE TBD BY OWNER

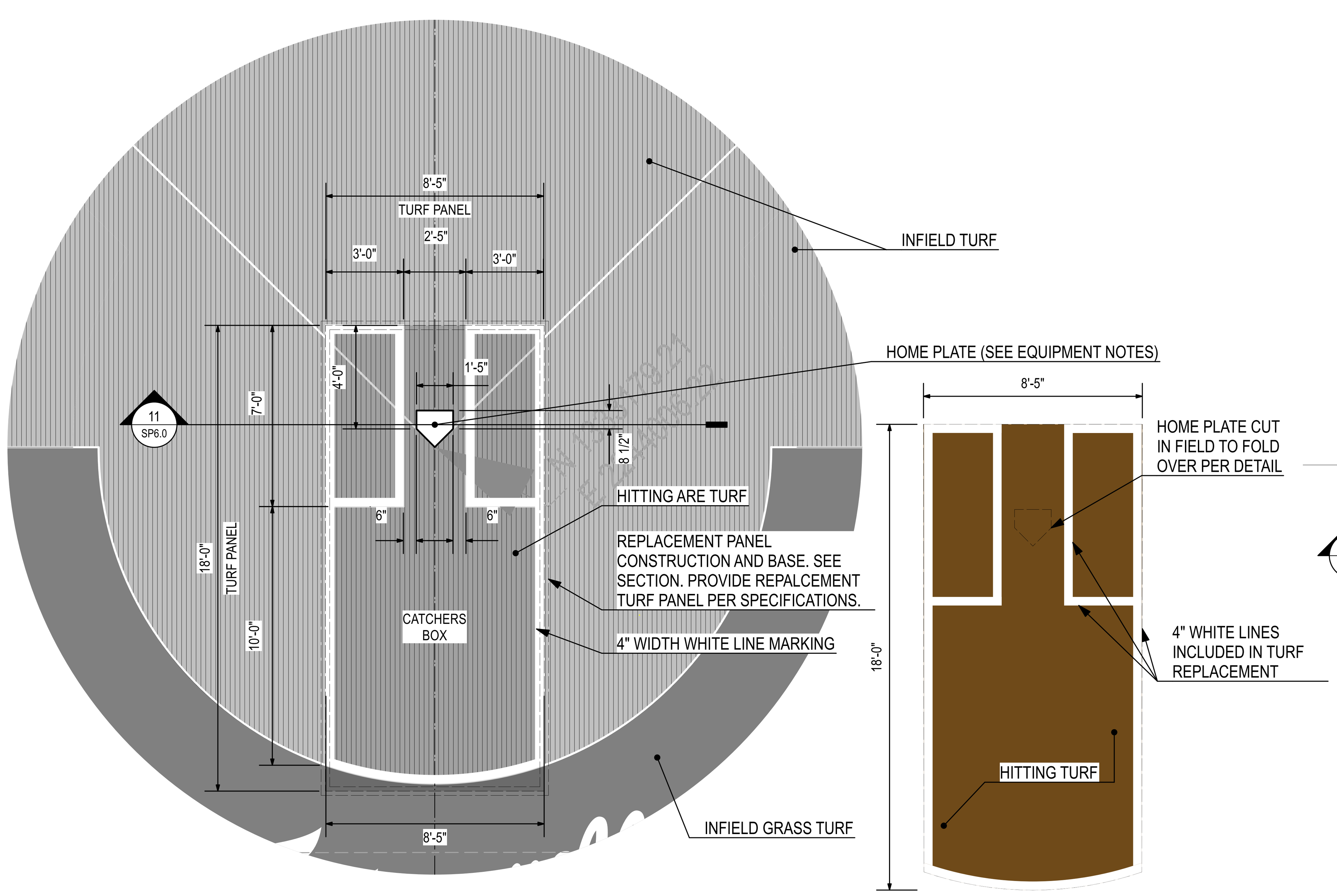


ALTERNATE LOGO ENLARGEMENT

LOGO ENLARGEMENT

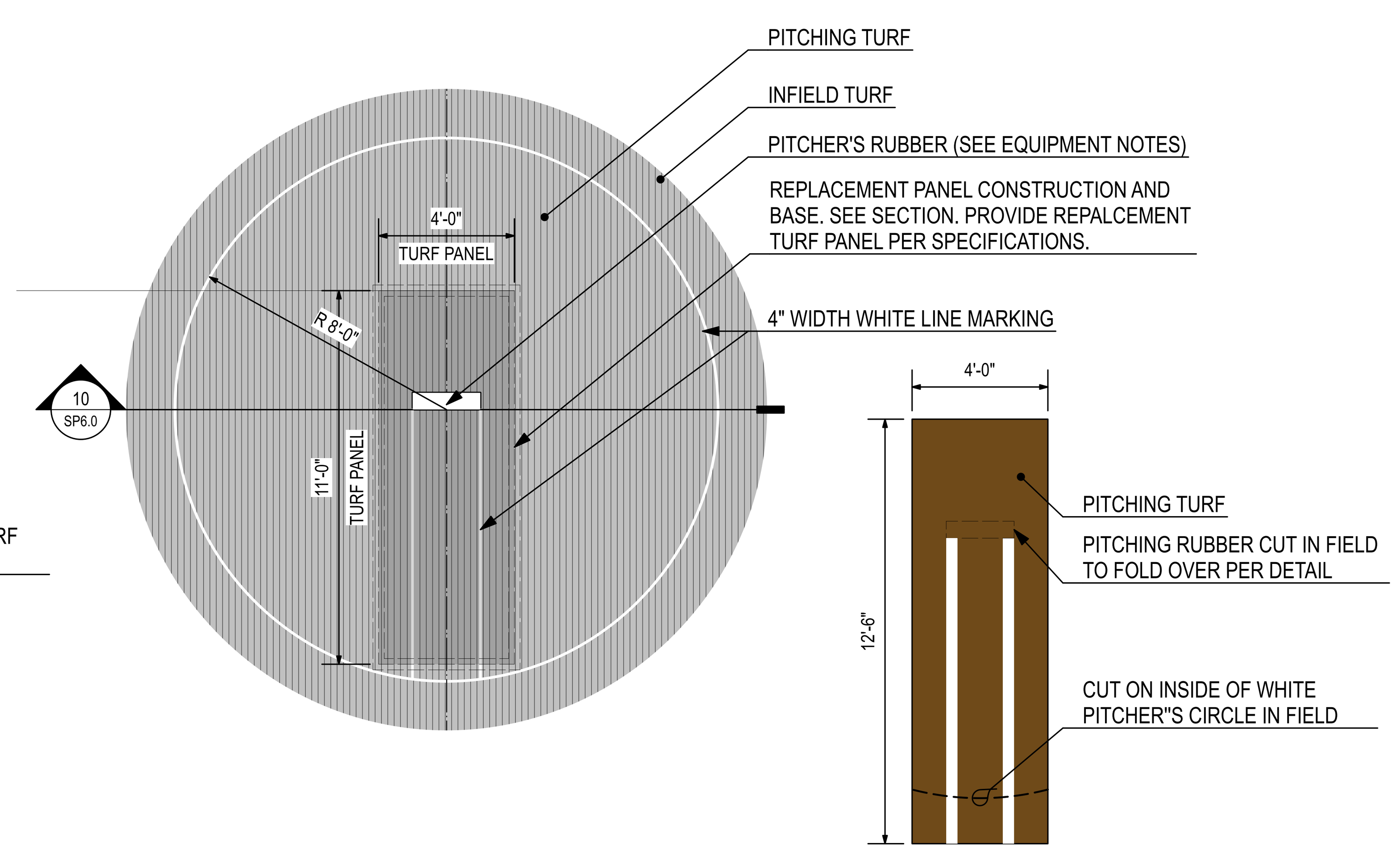


1 SP5.0 **FIELD RENDERING**
Scale: 1" = 30'-0"



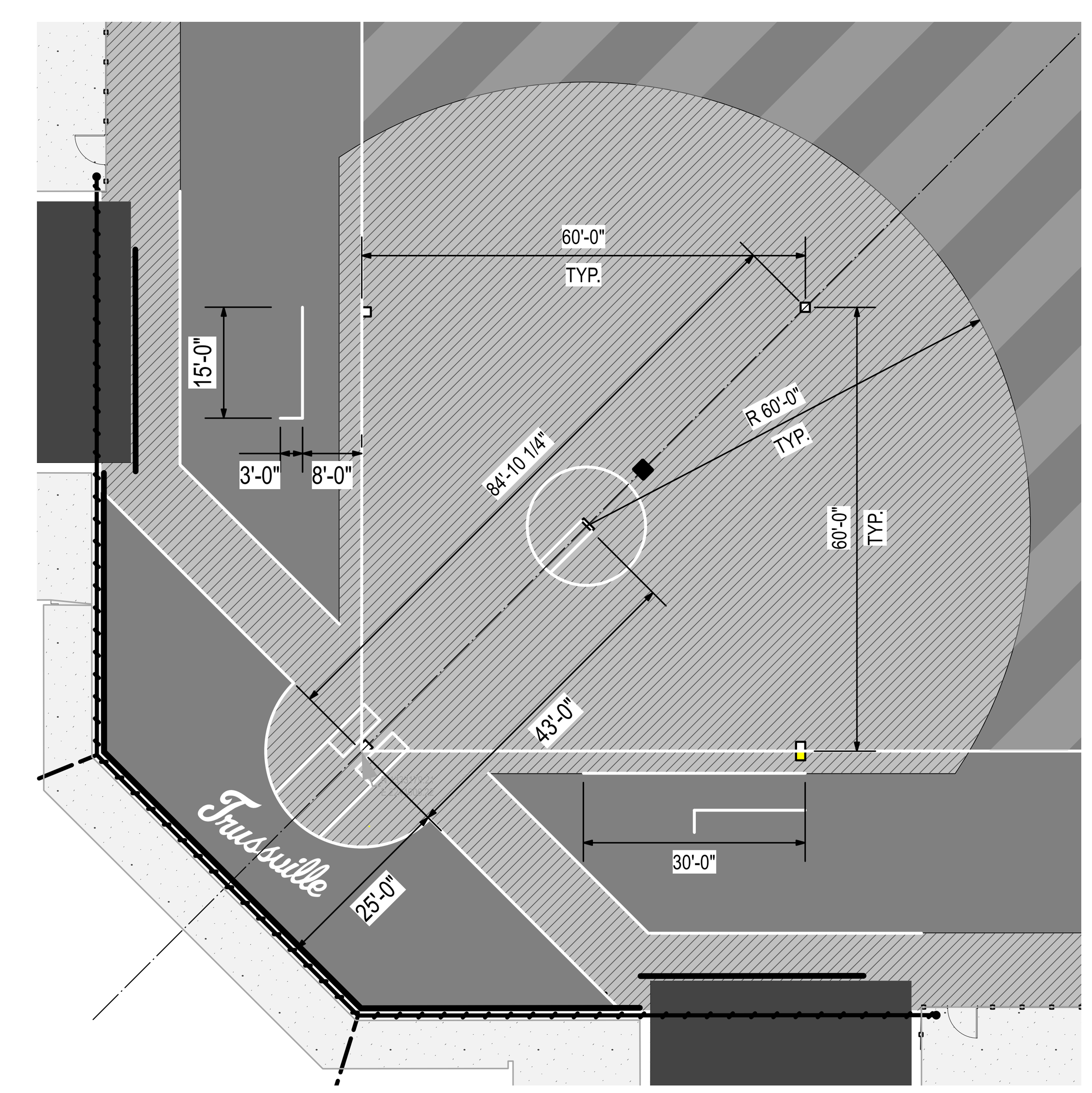
2 SP5.0 TYP. BATTER'S/CATCHER'S BOX ENLARGEMENT - SOFTBALL
Scale: 1/4" = 1'-0"

TURF REPLACEMENT PANEL



3 SP5.0 TYP. PITCHER'S CIRCLE - SOFTBALL
Scale: 1/4" = 1'-0"

TURF REPLACEMENT PANEL



4 SP5.0 SOFTBALL INFIELD DIMENSION
Scale: 1" = 20'-0"

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STATE OF ALABAMA
SEAN MICHAEL
NUMBER 769
REGISTERED LANDSCAPE ARCHITECT
03/13/24

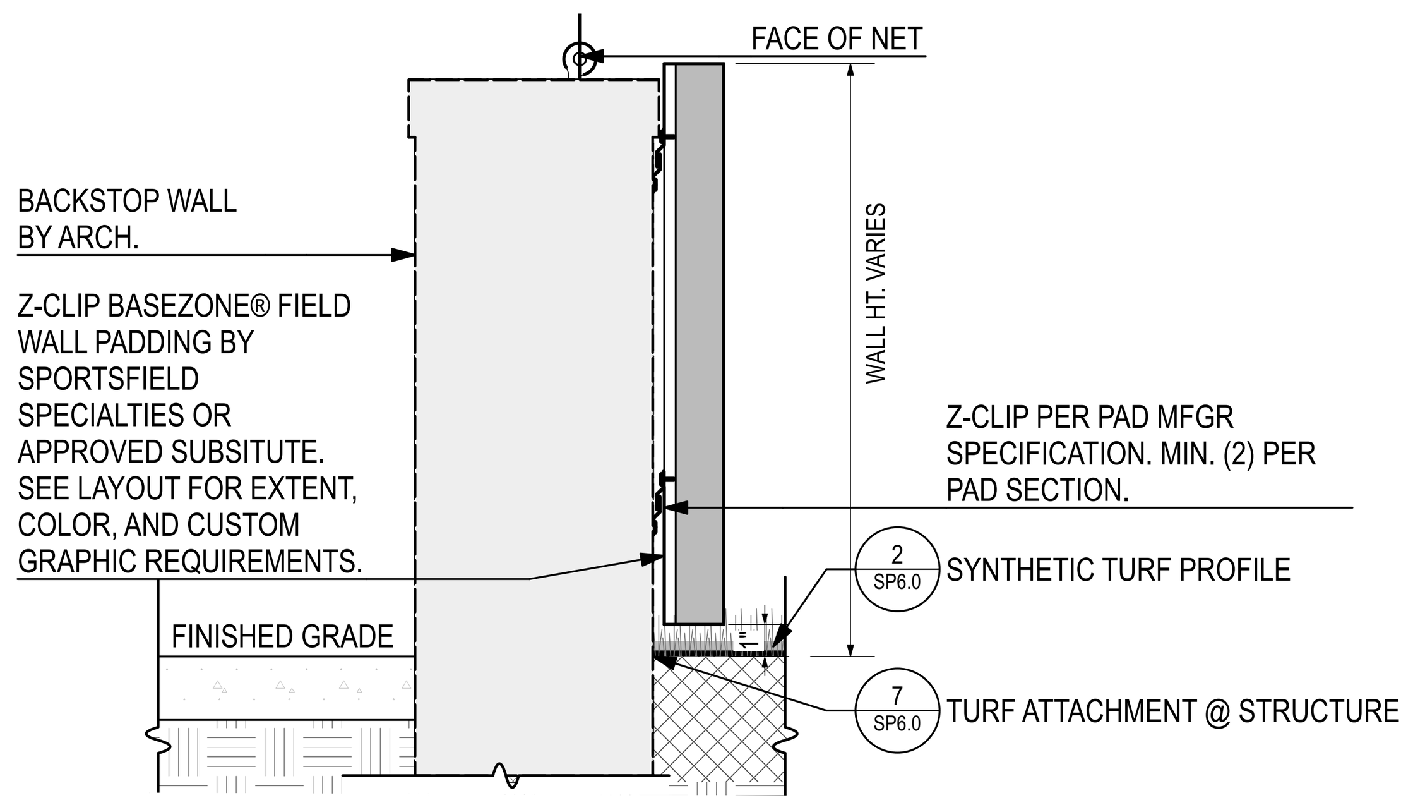
SHEET TITLE:
RENDERING & ENLARGEMENTS

PROJ. MGR.: R. VERNON
DRAWN: DMW

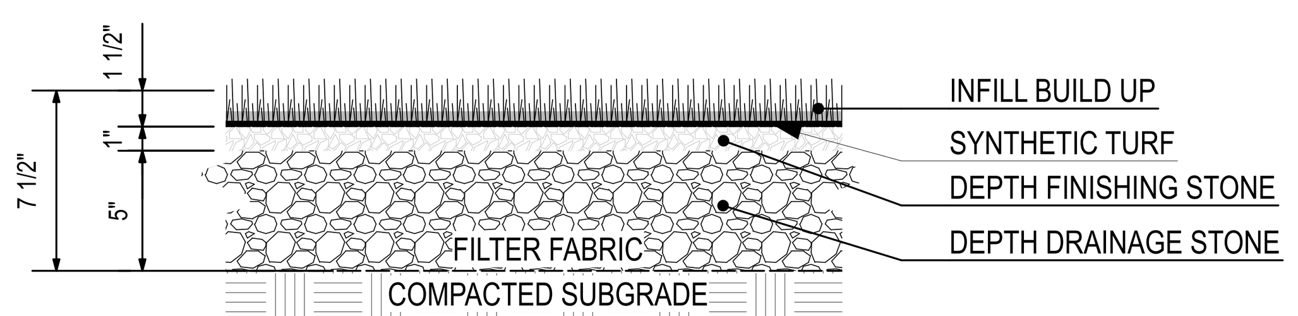
DATE:03/13/24 100% BID SET
REVISIONS

JOB NO. 23-72
SHEET NO:
SP5.0

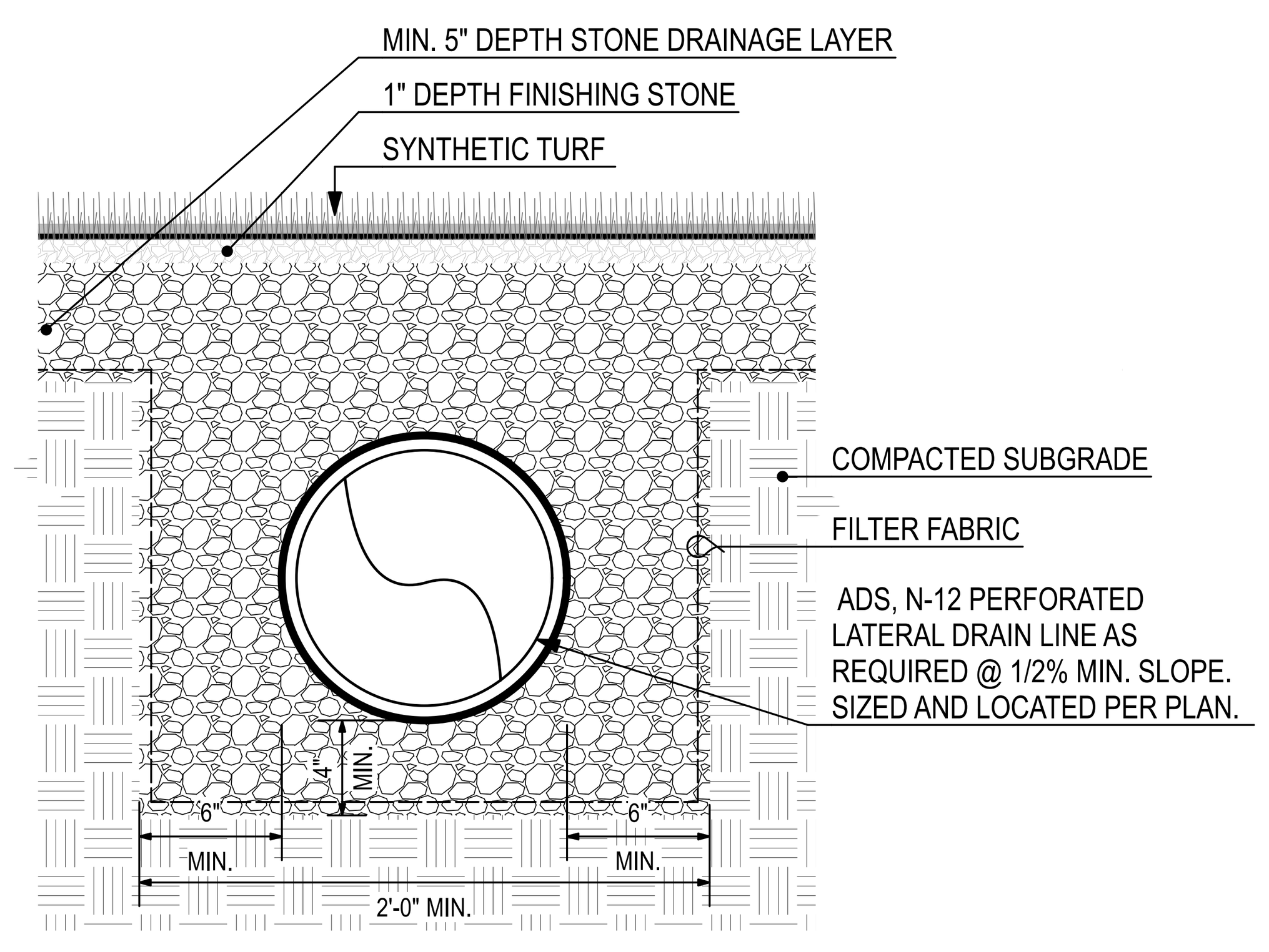
0 1" 2"



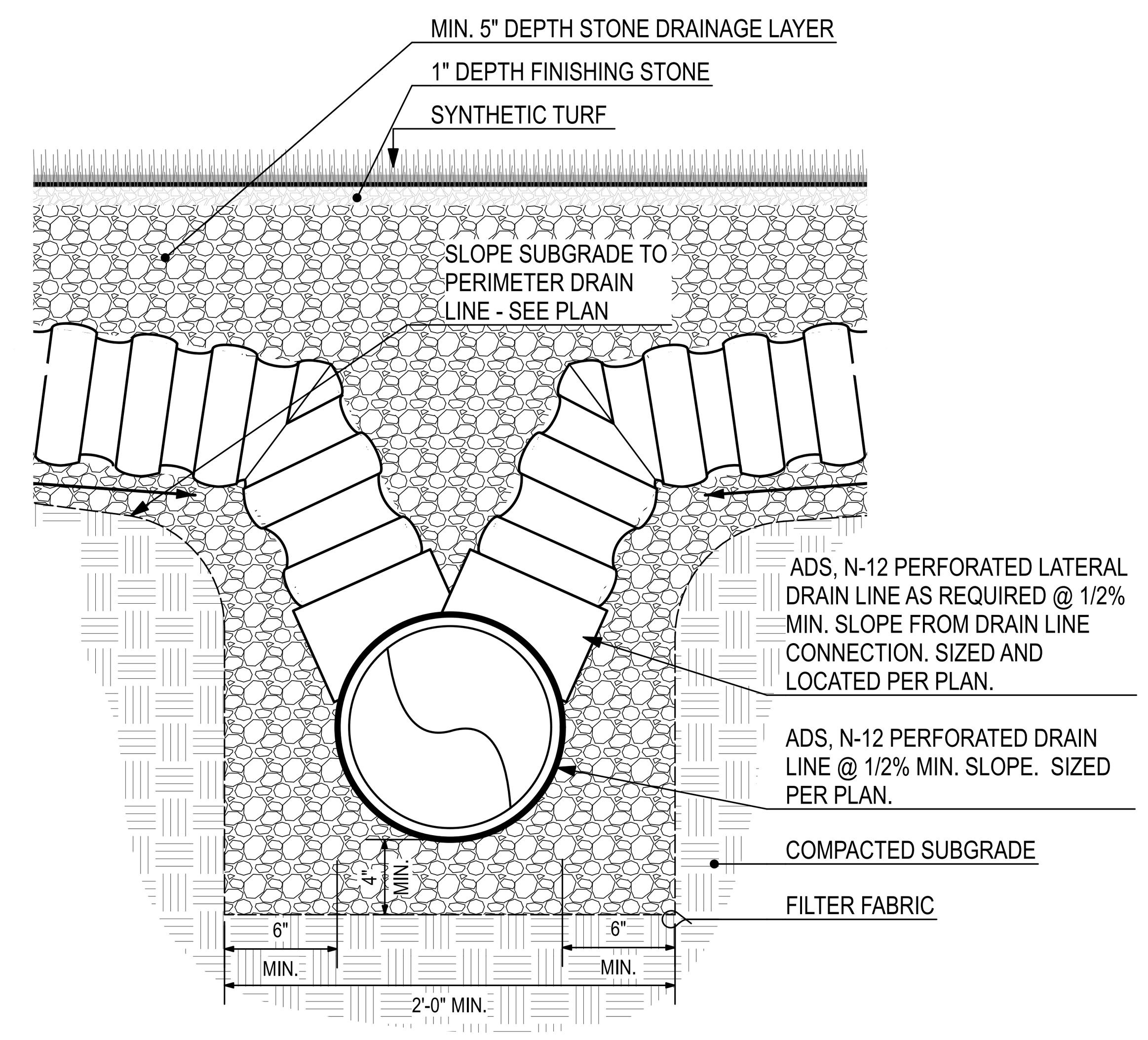
1 SP6.0 **PADDING @ BACKSTOP WALL**
Scale: 1" = 1'-0"



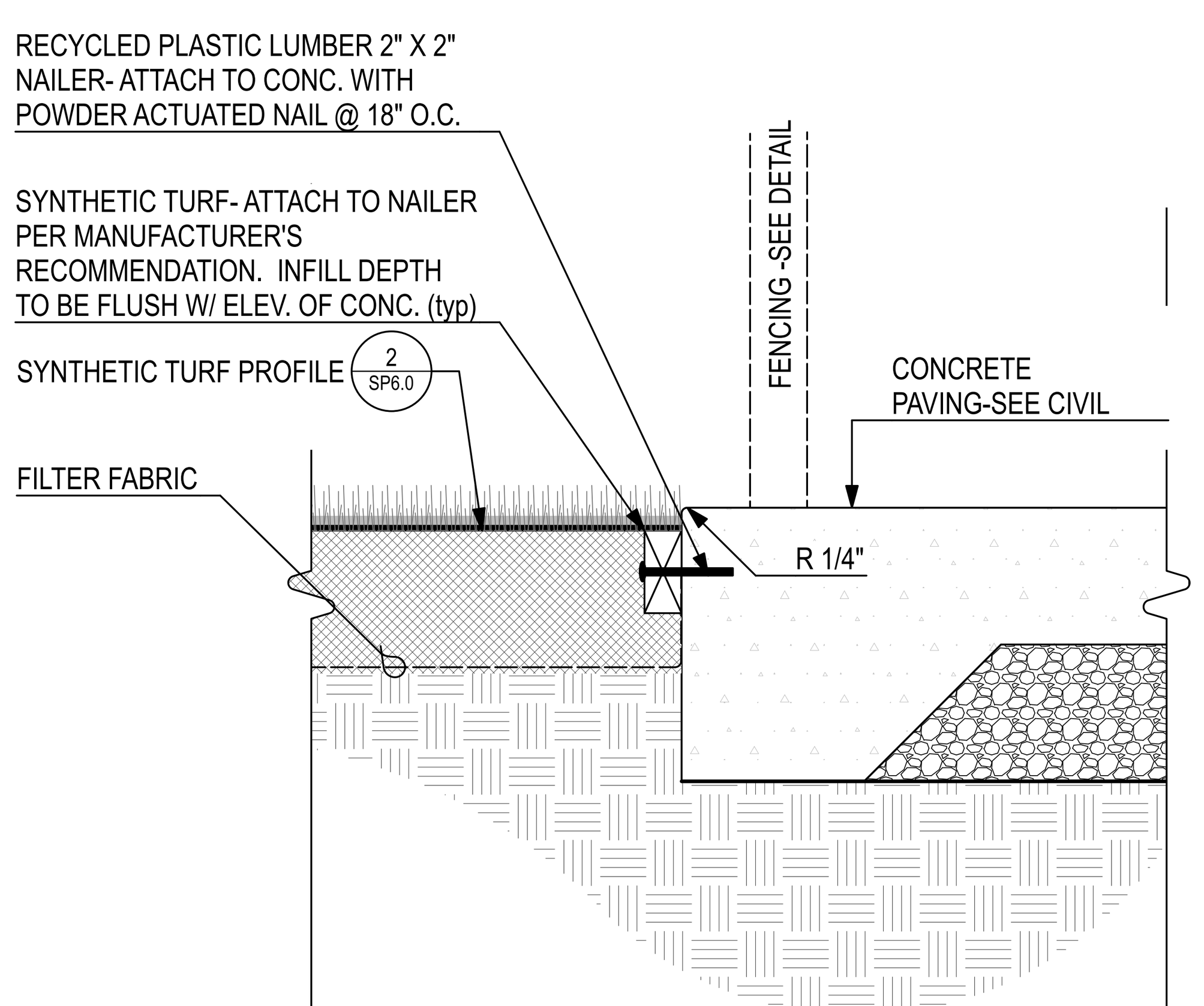
2 SP6.0 **SYNTHETIC TURF PROFILE**
Scale: 1 1/2" = 1'-0"



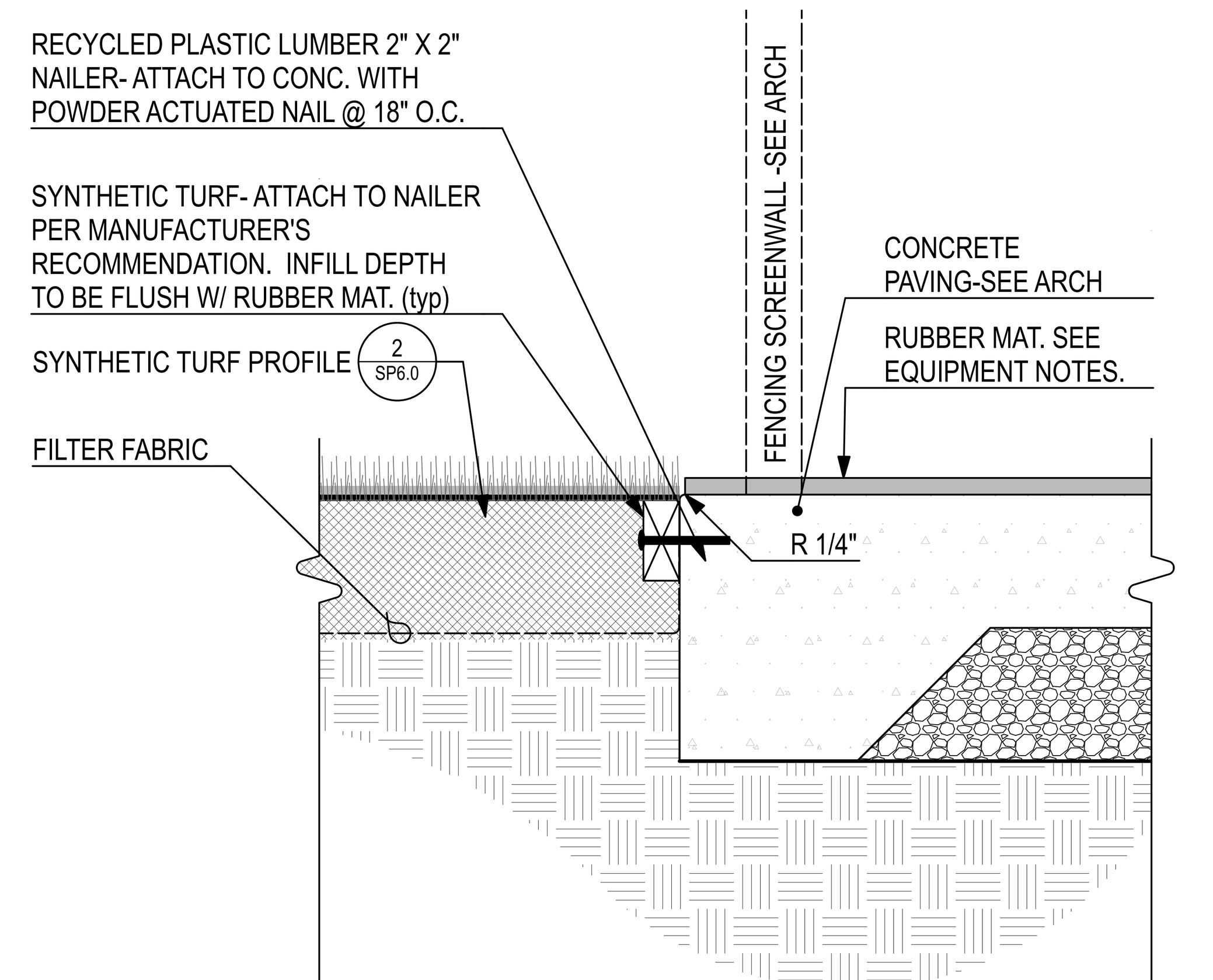
3 SP6.0 **LATERAL LINE PROFILE**
Scale: 1 1/2" = 1'-0"



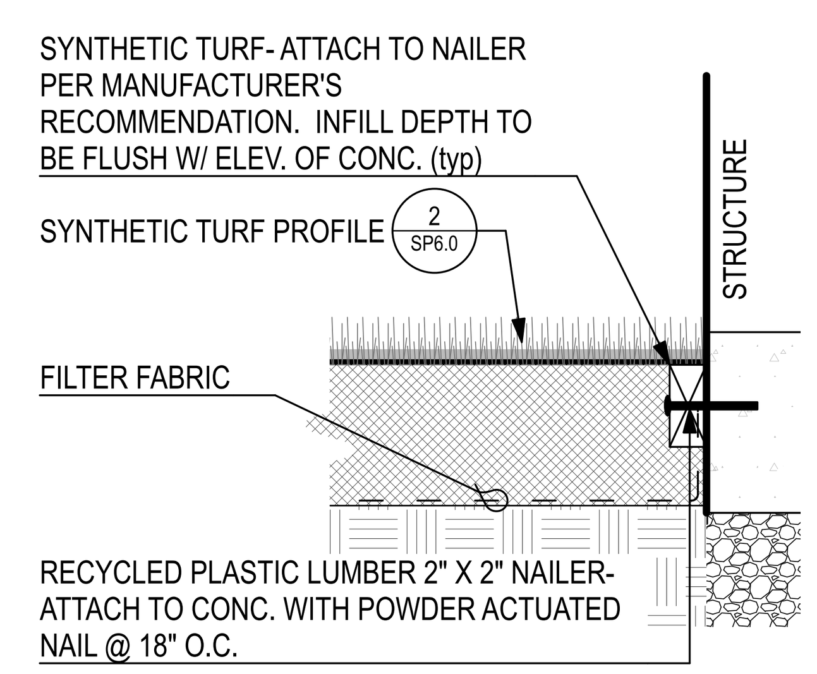
4 SP6.0 **TYPICAL TRUNK LINE CONNECTION**
Scale: 1 1/2" = 1'-0"



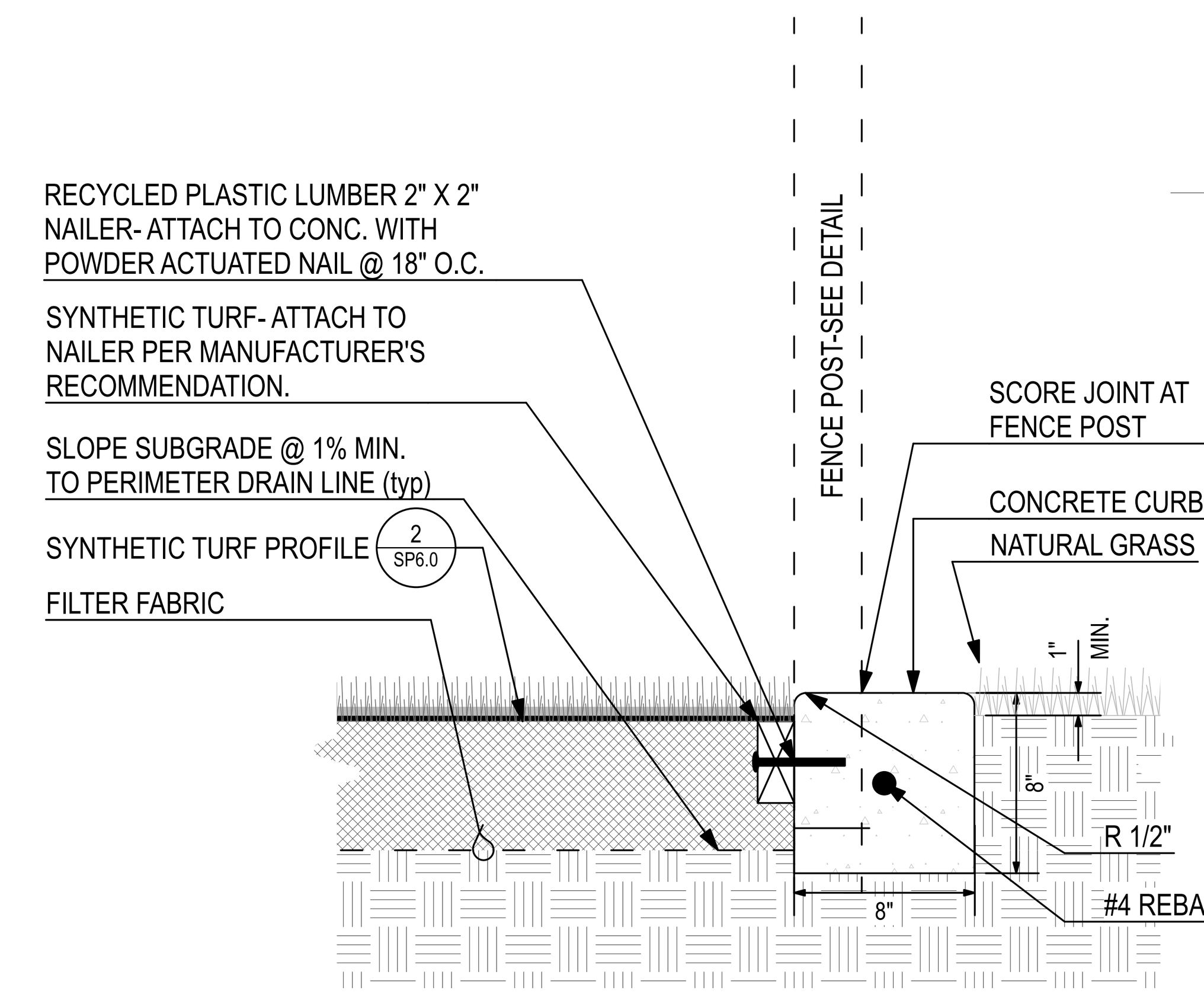
5 SP6.0 **TURF ATTACHMENT @ CONCRETE WALK**
Scale: 1 1/2" = 1'-0"



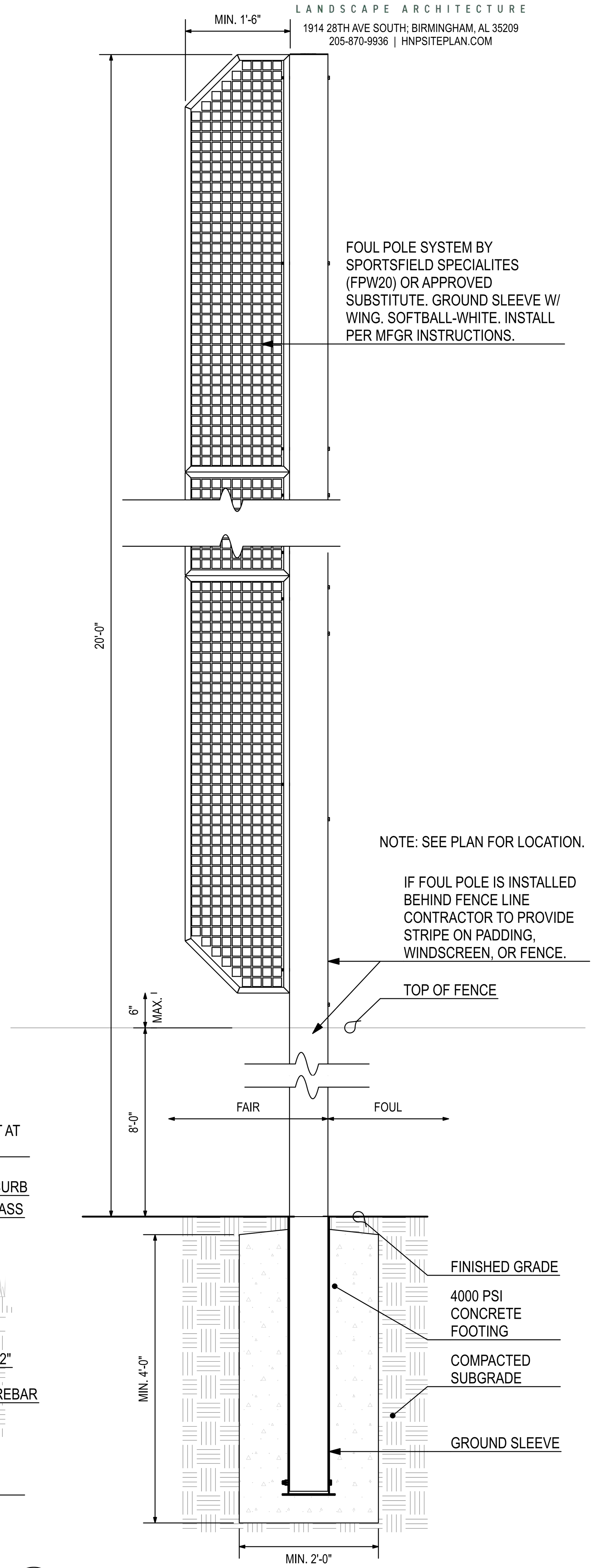
6 SP6.0 **TURF ATTACHMENT @ DUGOUT**
Scale: 1 1/2" = 1'-0"



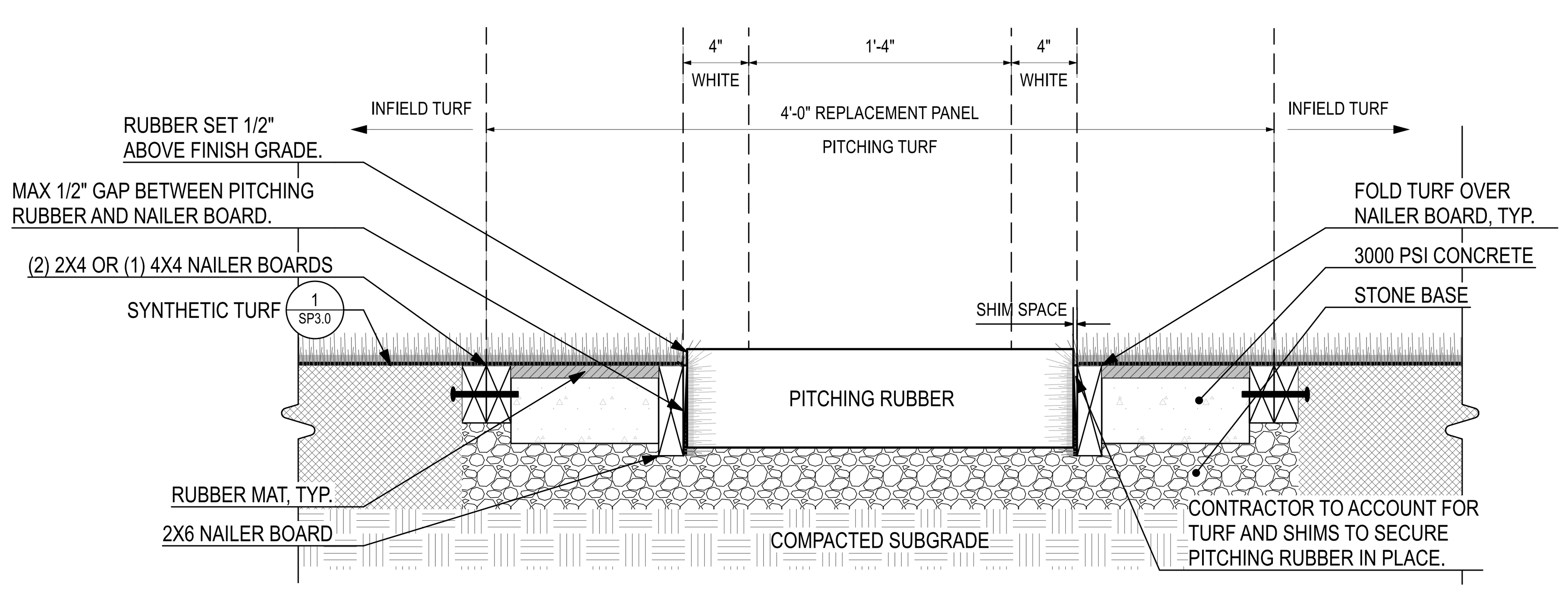
7 SP6.0 **TURF ATTACHMENT @ STRUCTURE**
Scale: 1 1/2" = 1'-0"



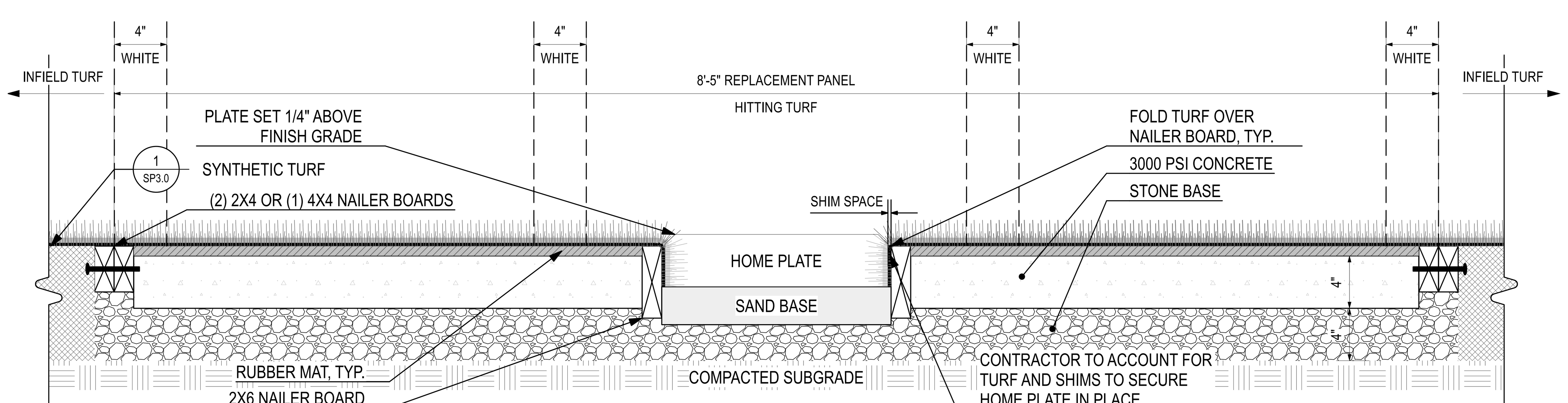
8 SP6.0 **TURF ATTACHMENT @ CONCRETE CURB**
Scale: 1 1/2" = 1'-0"



9 SP6.0 **TYPICAL FOUL POLE**
Scale: 3/4" = 1'-0"



10 SP6.0 **SOFTBALL PITCHING LANE SECTION**
Scale: 1 1/2" = 1'-0"



11 SP6.0 **SB BATTER'S BOX SECTION**
Scale: 1 1/2" = 1'-0"

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TRUSSVILLE CITY BOARD OF EDUCATION

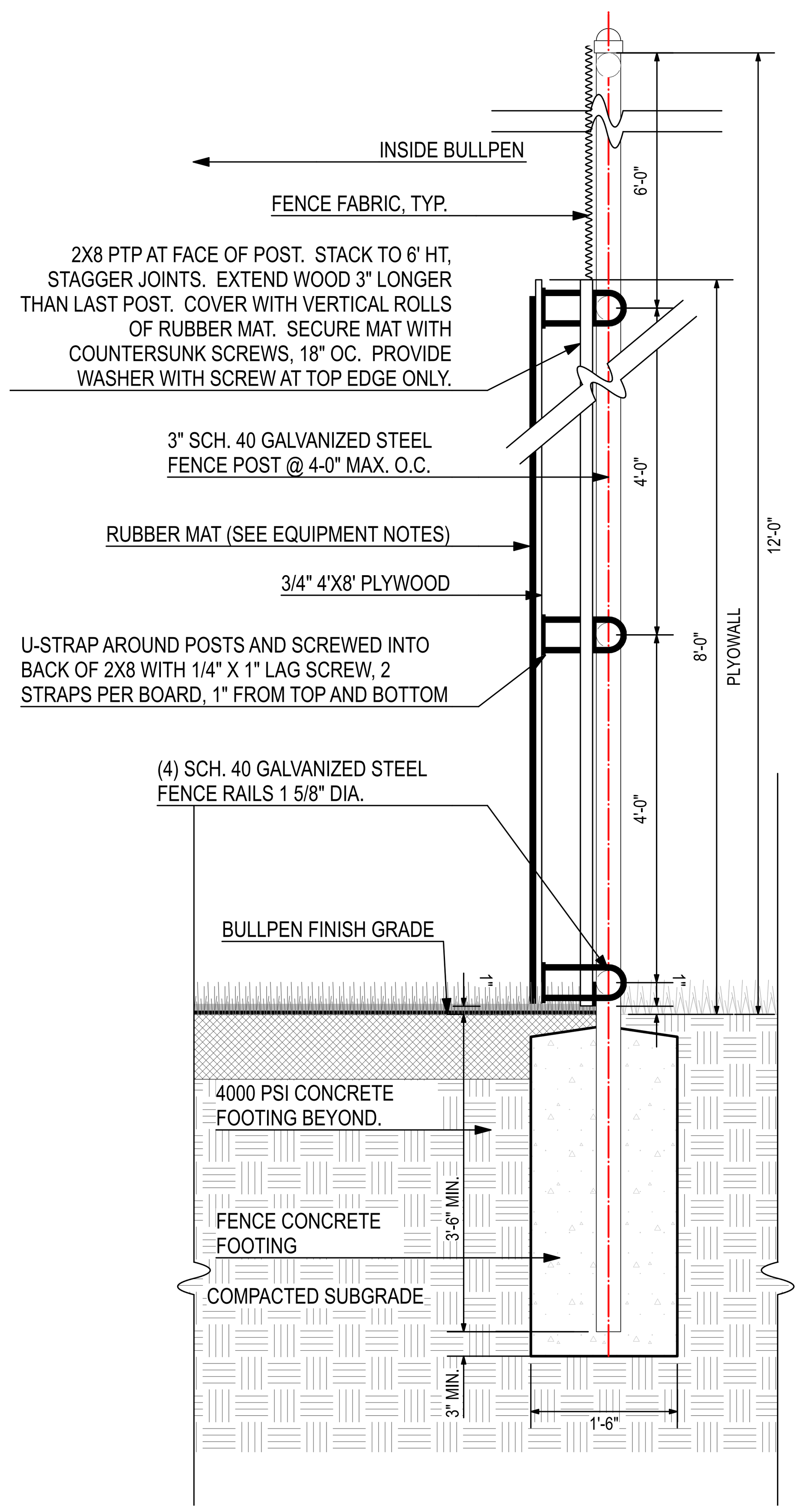
STATE OF ALABAMA · SEAN MICHAEL · NUMBER 783 · REGISTERED LANDSCAPE ARCHITECT
03/13/24

SHEET TITLE:
DETAILS

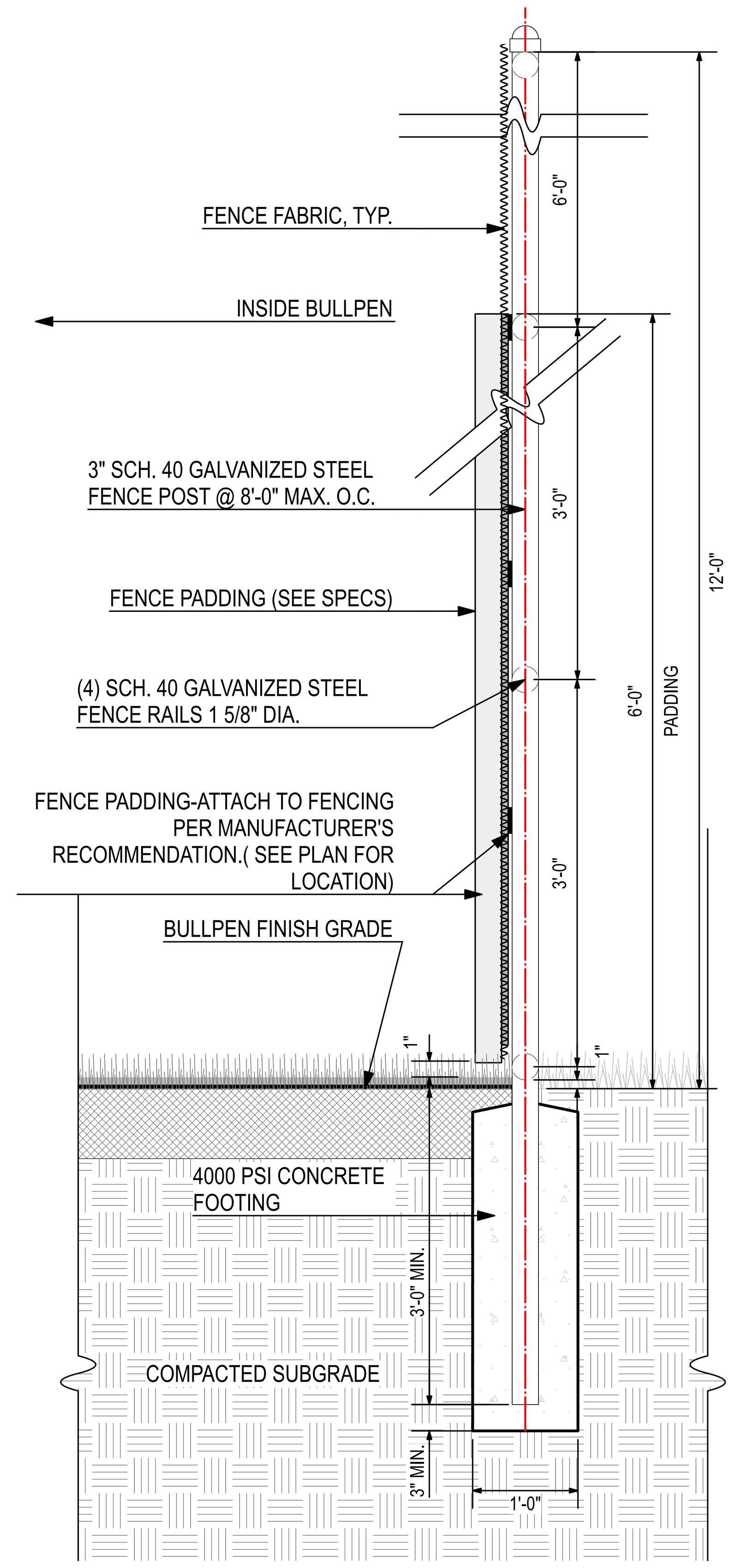
PROJ. MGR.: R. VERNON
DRAWN: DMW
DATE:03/13/24 100% BID SET
REVISIONS

JOB NO. 23-72
SHEET NO:
SP6.0
6 OF 13

0 1" 2"

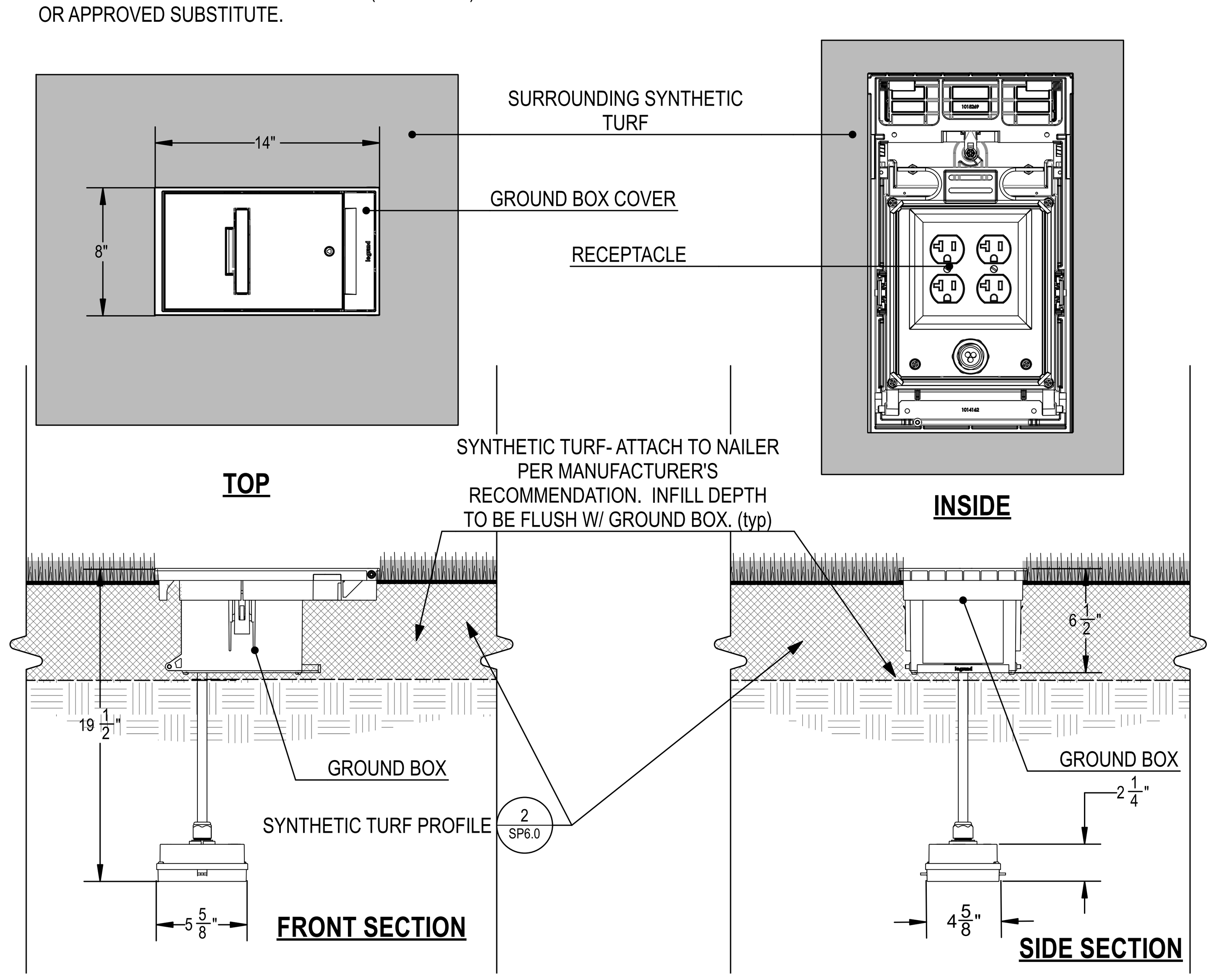


1 SP6.1 **HOME BULLPEN PLYWALL**
Scale: 3/4" = 1'-0"

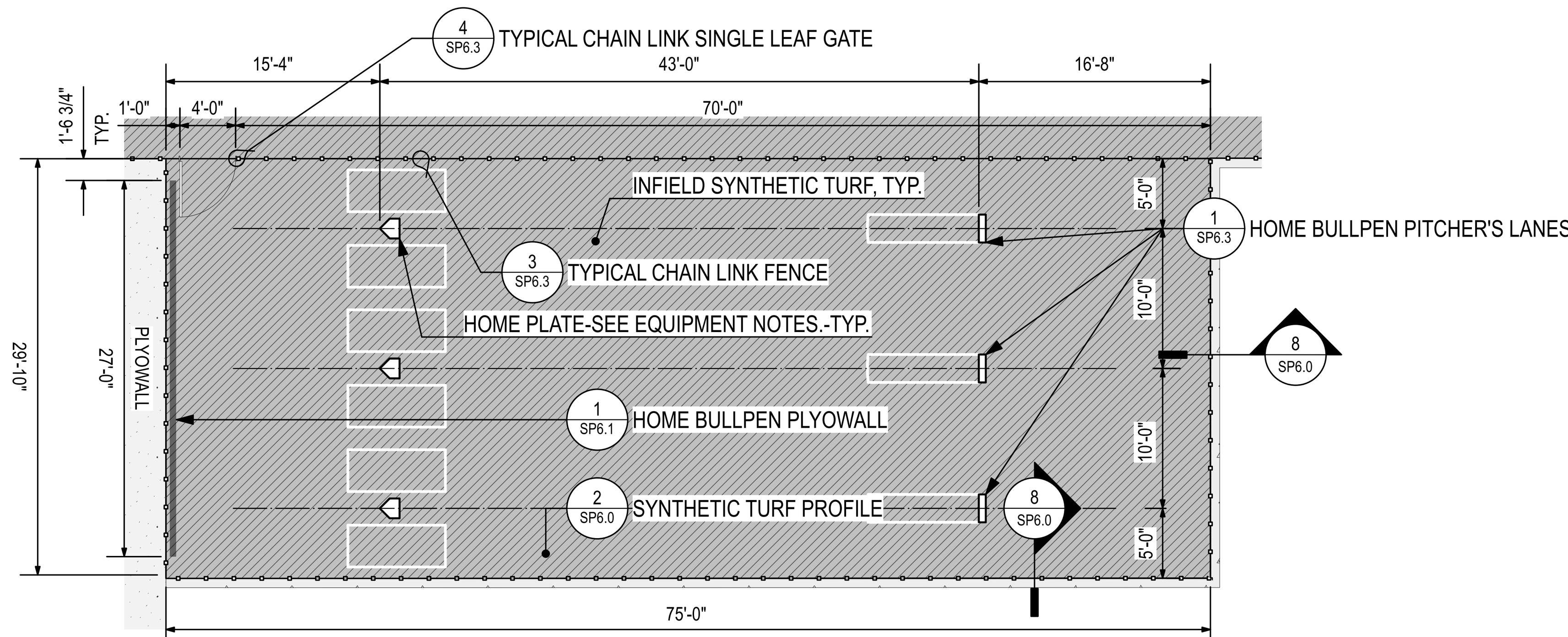


2 SP6.1 **VISITOR BULLPEN PADDING**
Scale: 3/4" = 1'-0"

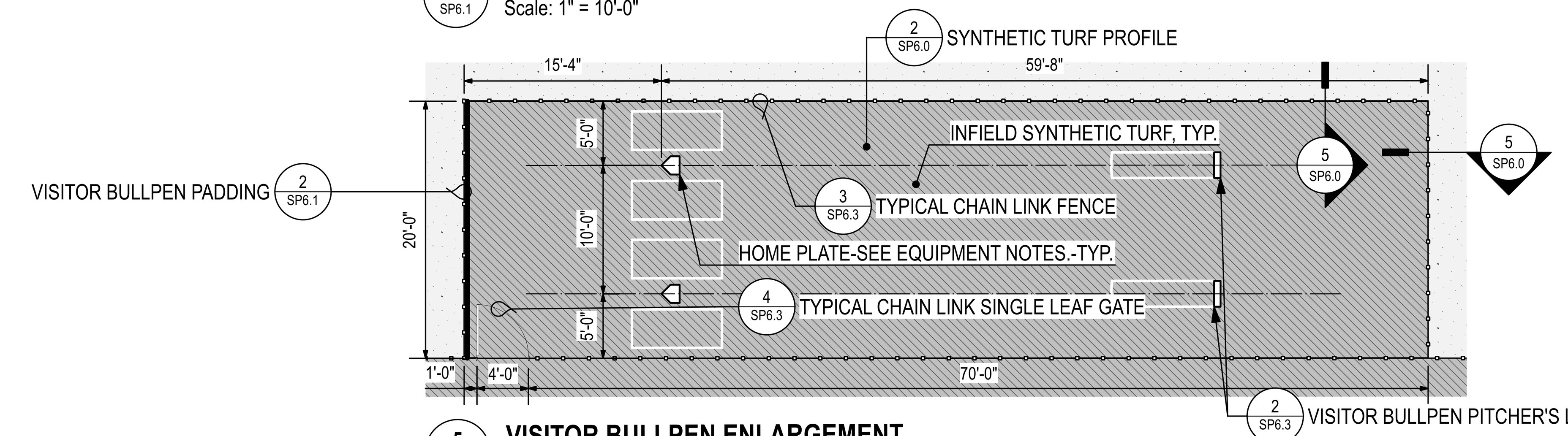
NOTE: IN-GROUND RECEPTACLE- LEGRAND WIREMOLD® OUTDOOR GROUND BOX (XB814C520) OR APPROVED SUBSTITUTE.



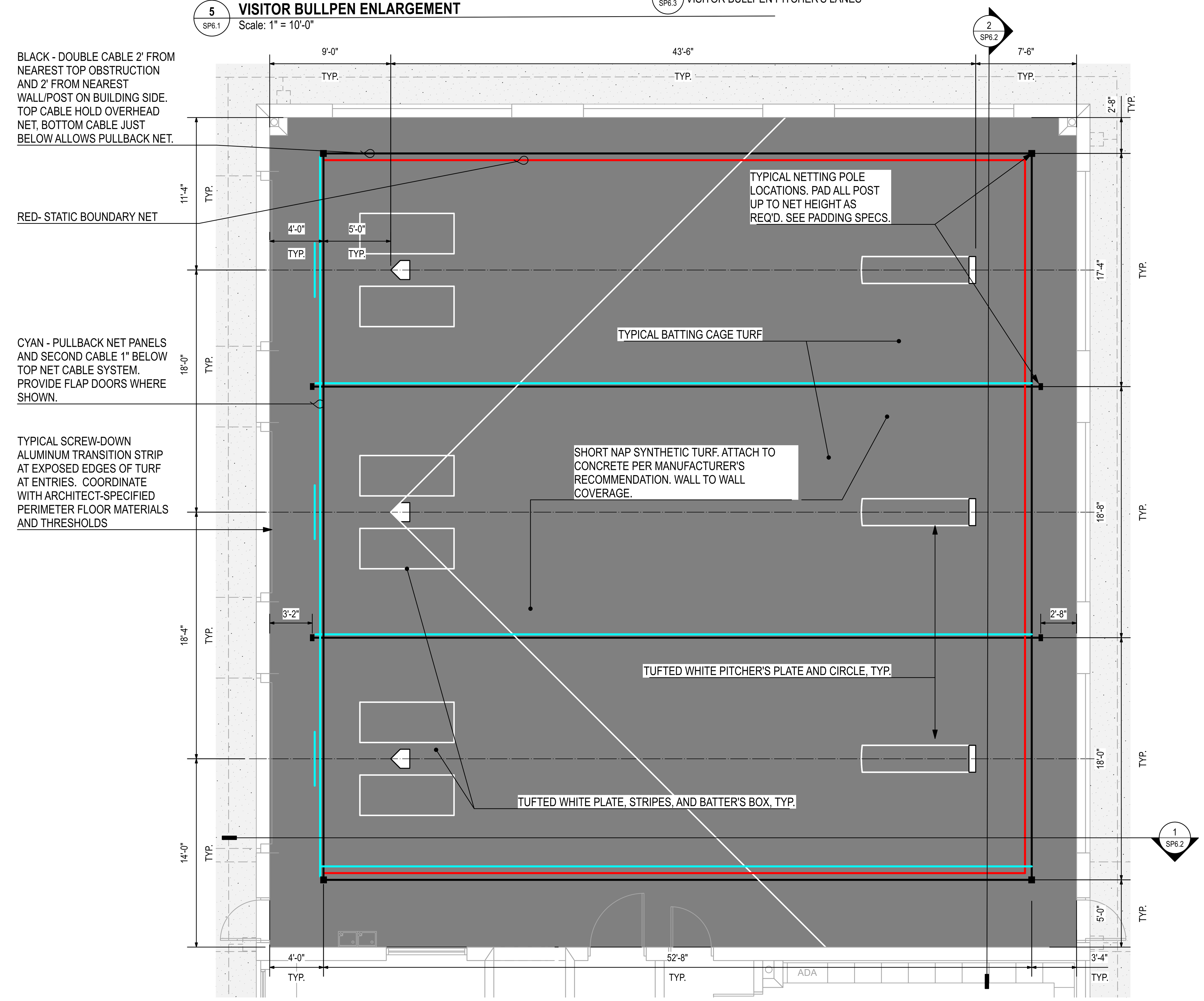
3 SP6.1 **IN-GROUND RECEPTACLES**
Scale: 1 1/2" = 1'-0"



4 SP6.1 **HOME BULLPEN ENLARGEMENT**
Scale: 1" = 10'-0"



5 SP6.1 **VISITOR BULLPEN ENLARGEMENT**
Scale: 1" = 10'-0"



6 SP6.1 **HITTING FACILITY ENLARGEMENT**
Scale: 3/16" = 1'-0"

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TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

STATE OF ALABAMA — SEAN MICHAEL — REGISTERED LANDSCAPE ARCHITECT — 03/13/24

SHEET TITLE:
DETAILS

PROJ. MGR.: R. VERNON
DRAWN: DMW
DATE:03/13/24 100% BID SET
REVISIONS

JOB NO. 23-72
SHEET NO:
SP6.1

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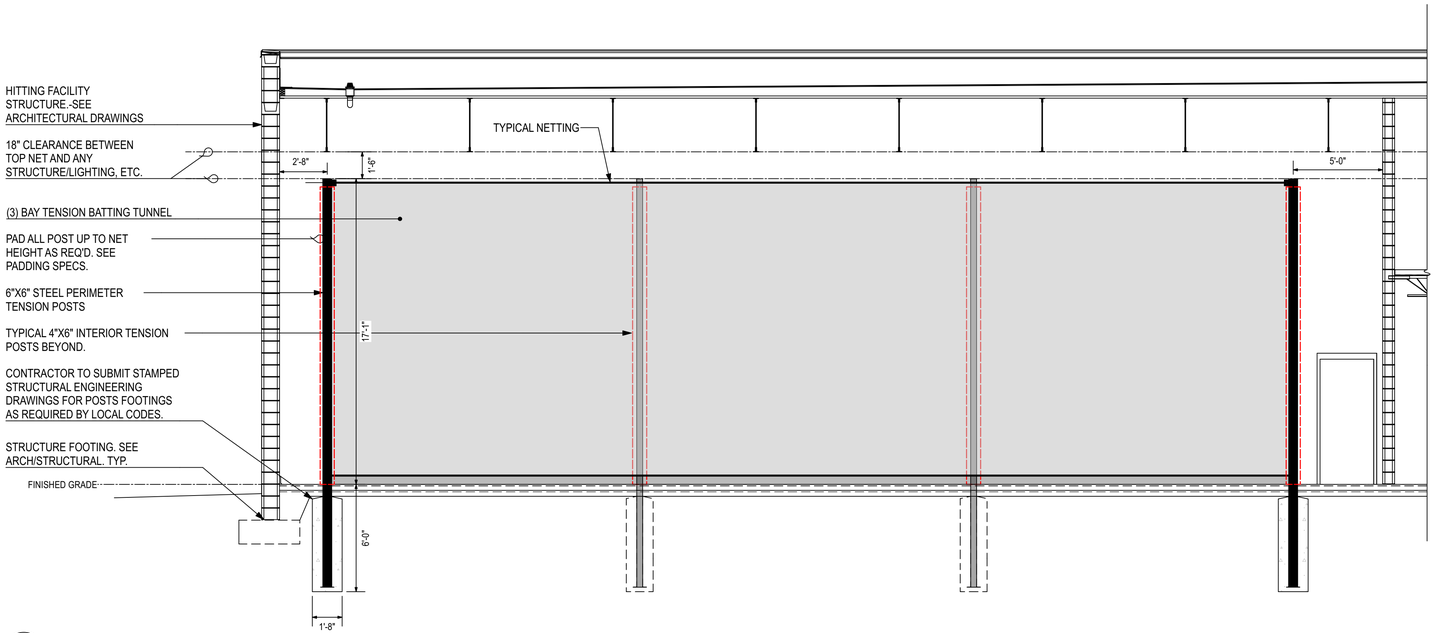
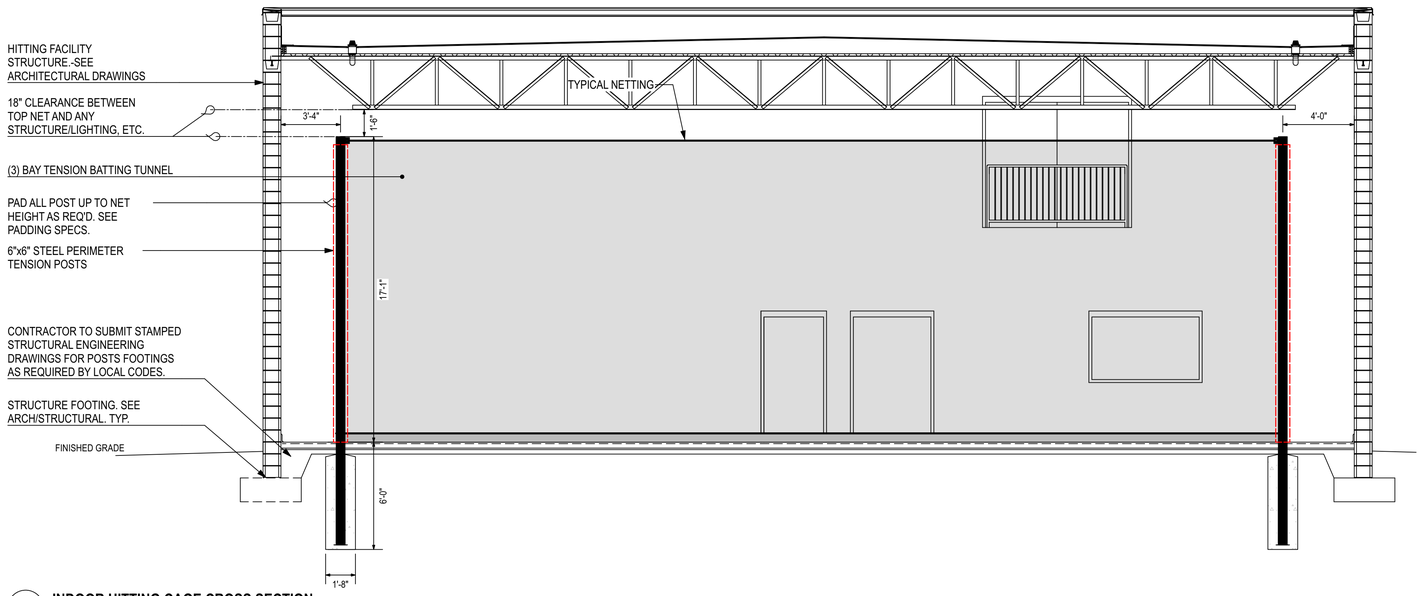
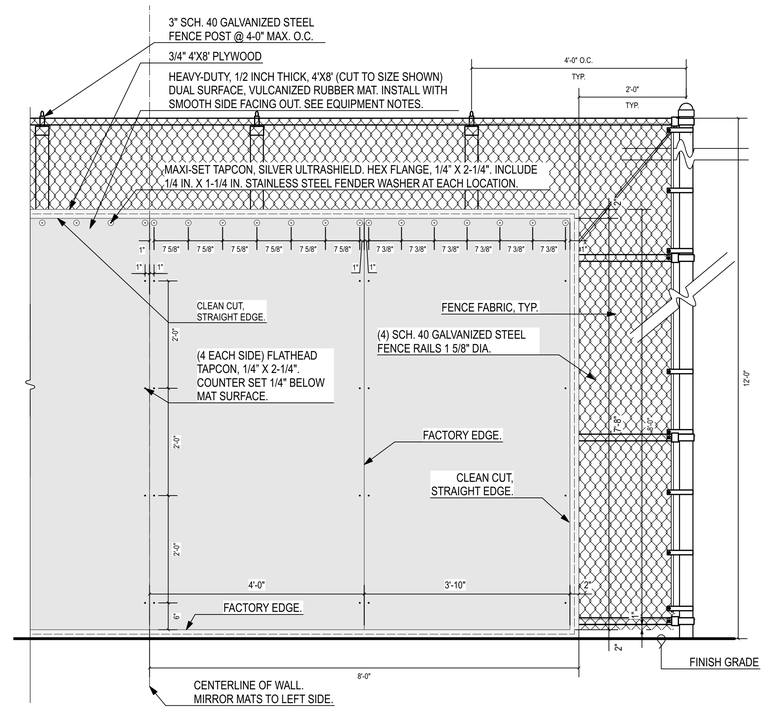


1 SP6.2 **INDOOR HITTING CAGE LONGITUDINAL SECTION**
Scale: 1/4" = 1'-0"



2 SP6.2 **INDOOR HITTING CAGE CROSS SECTION**
Scale: 1/4" = 1'-0"



3 SP6.2 **PLYOWALL MAT**
Scale: 3/4" = 1'-0"

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TRUSSVILLE CITY BOARD OF EDUCATION

STATE OF ALABAMA · SEAN MICHAEL HUMBERT · NUMBER 765 · REGISTERED LANDSCAPE ARCHITECT
03/13/24

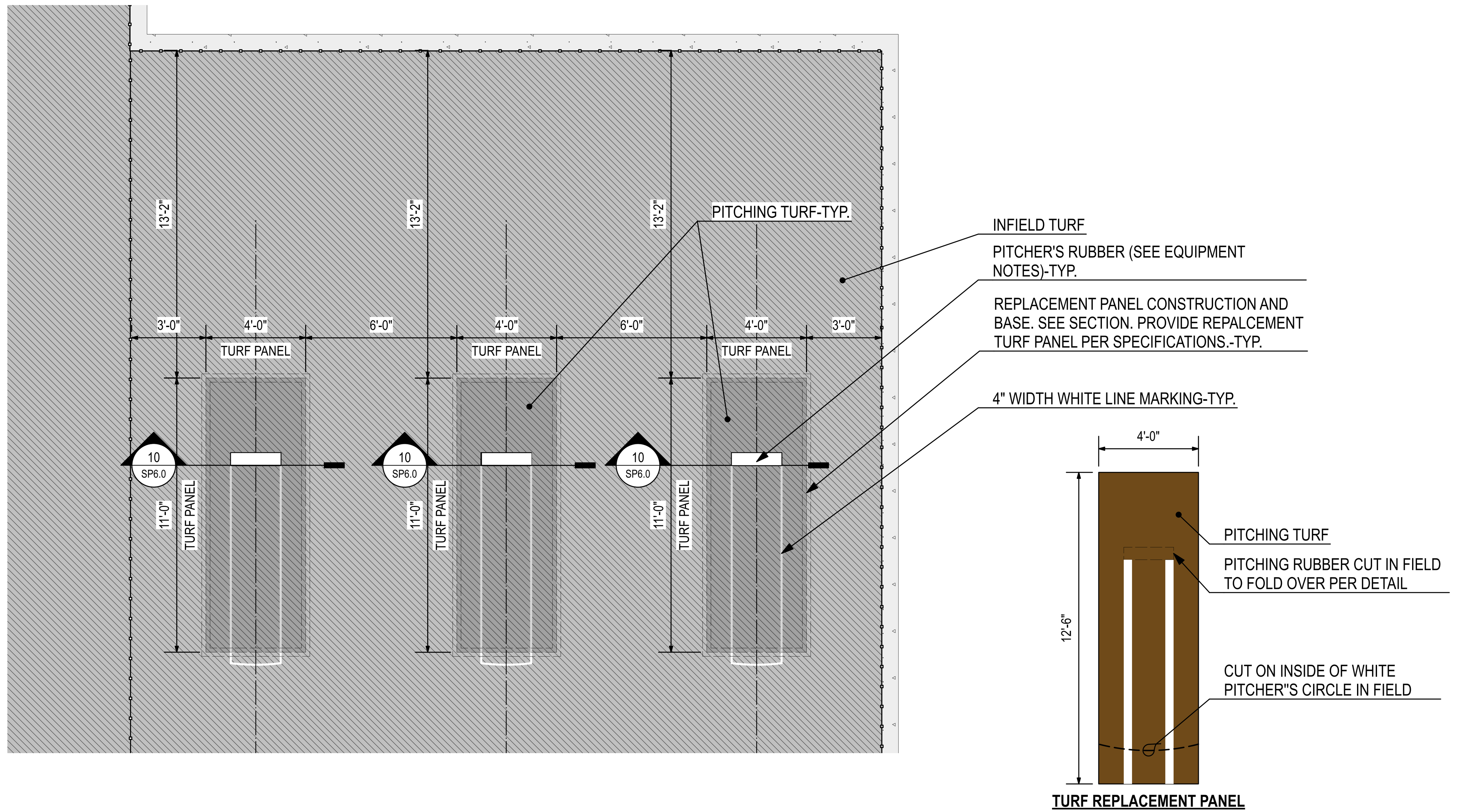
SHEET TITLE:
DETAILS

PROJ. MGR.:	R. VERNON
DRAWN:	DMW
DATE:	03/13/24 100% BID SET
REVISIONS	

JOB NO. 23-72

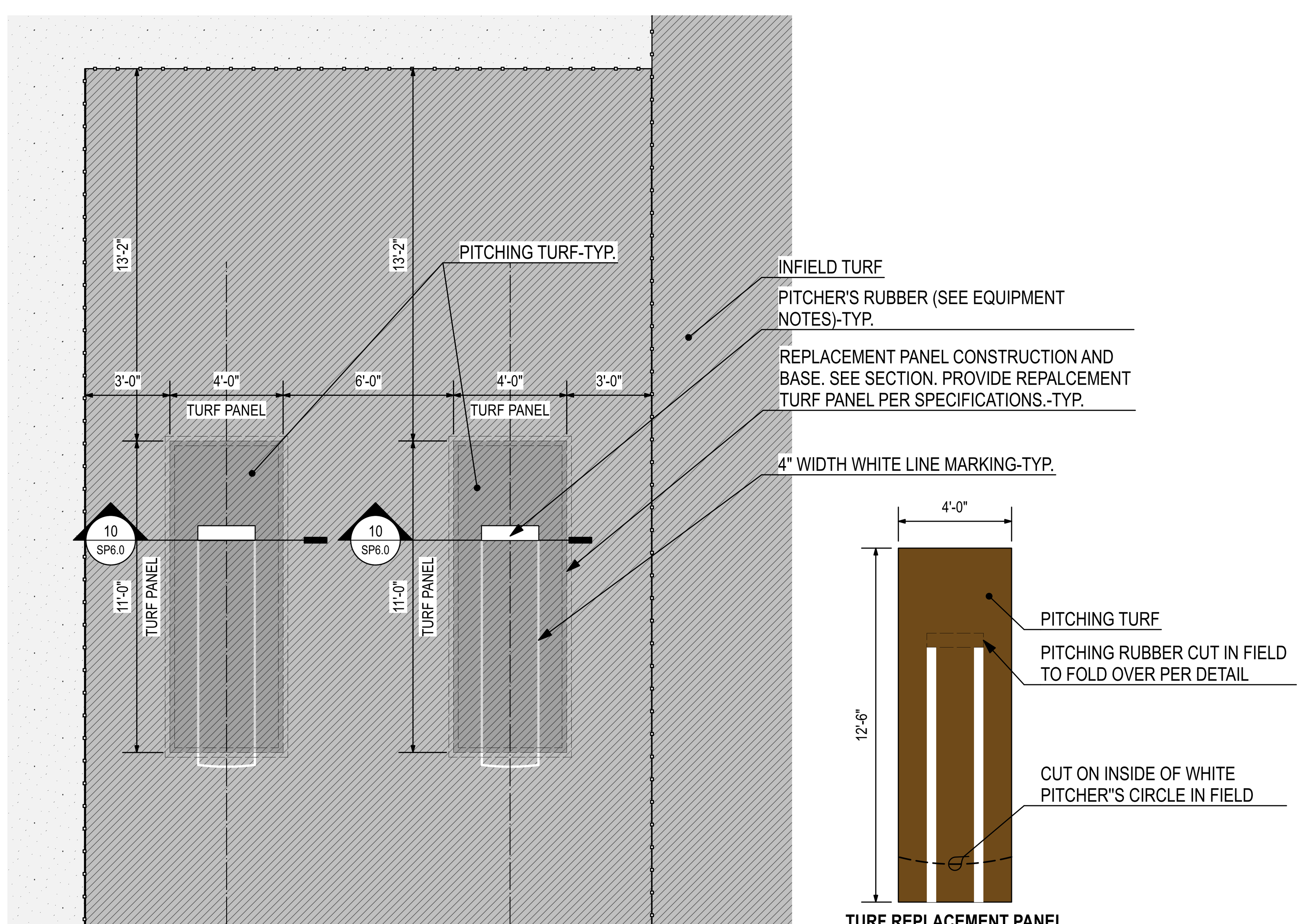
SHEET NO:
SP6.2

0 1" 2"



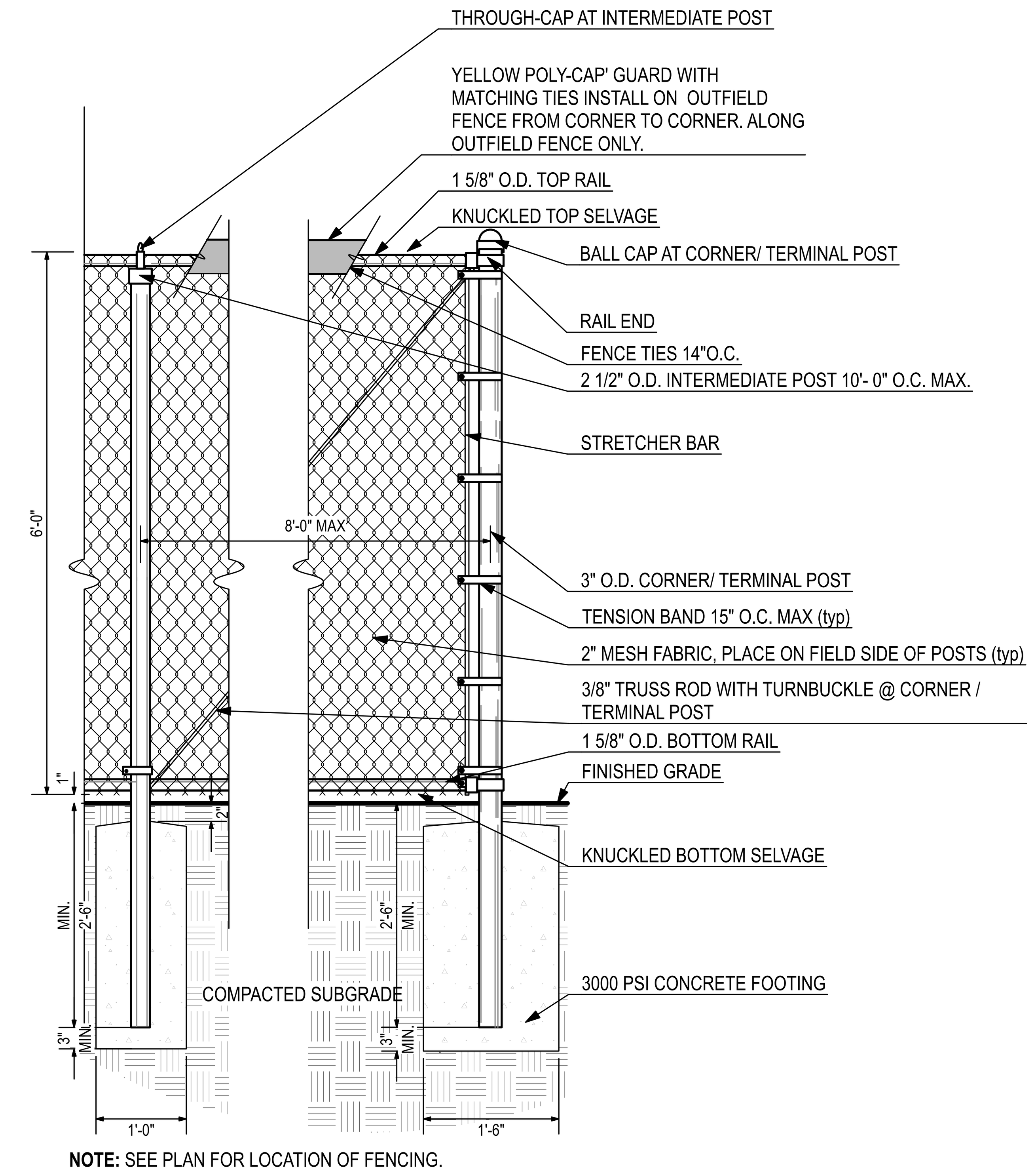
1
SP6.3

HOME BULLPEN PITCHER'S LANES
Scale: 1/4" = 1'-0"



2
SP6.3

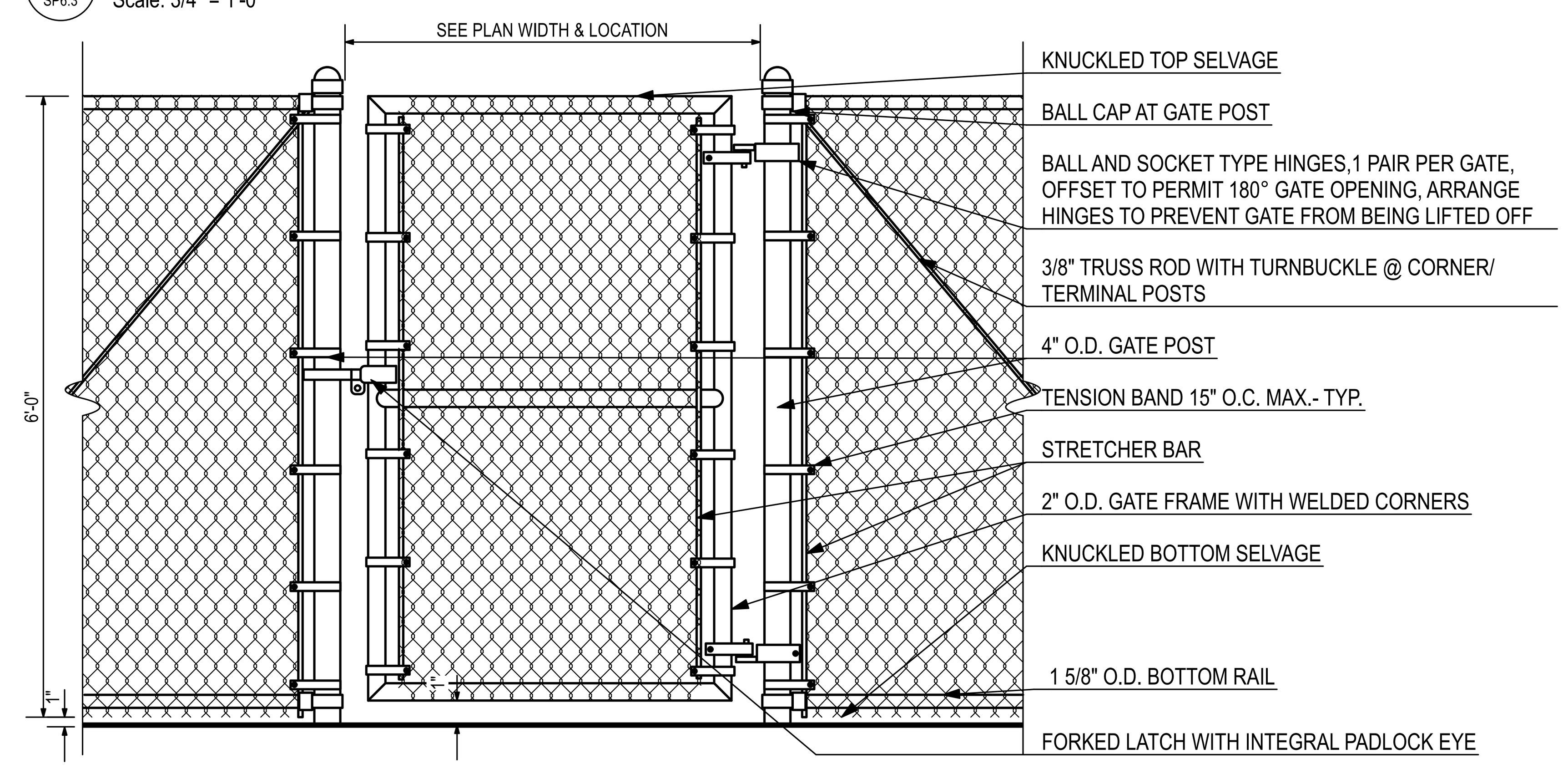
VISITOR BULLPEN PITCHER'S LANES
Scale: 1/4" = 1'-0"



NOTE: SEE PLAN FOR LOCATION OF FENCING.

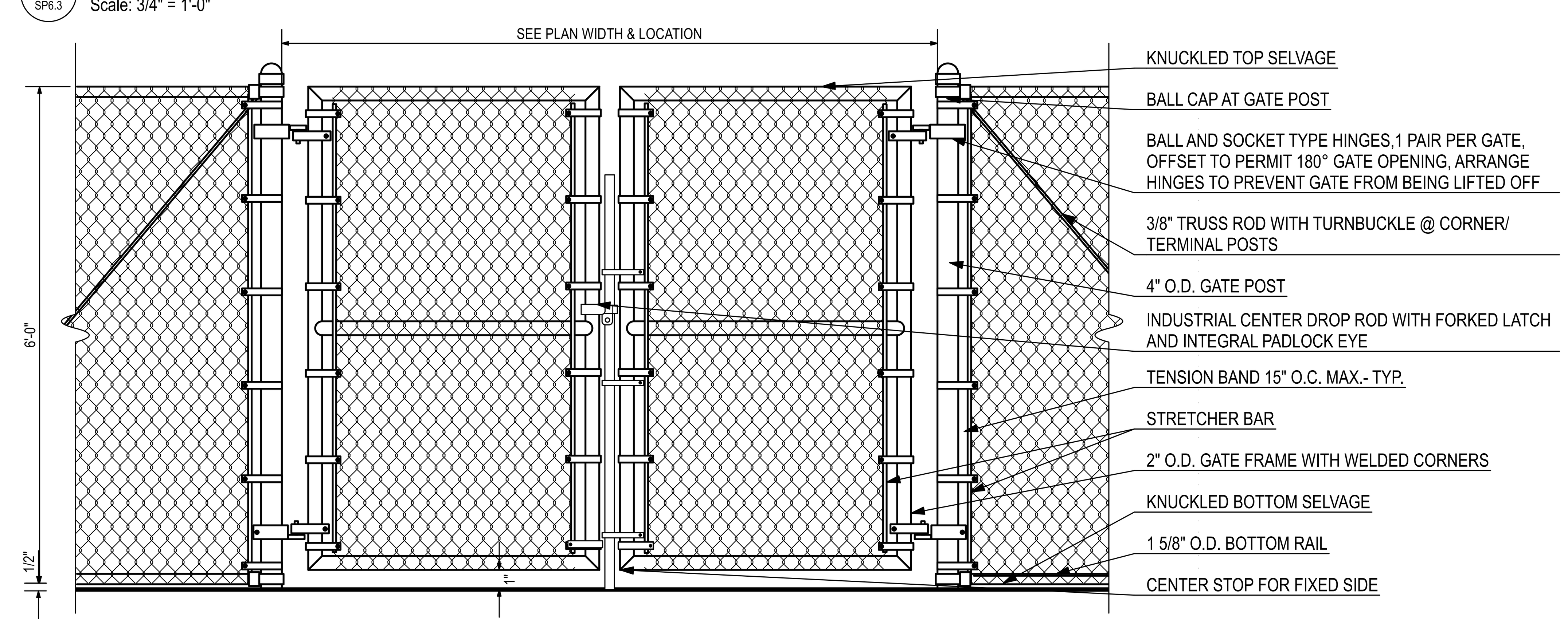
3
SP6.3

TYPICAL CHAIN LINK FENCE
Scale: 3/4" = 1'-0"



4
SP6.3

TYPICAL CHAIN LINK SINGLE LEAF GATE
Scale: 3/4" = 1'-0"



5
SP6.3

TYPICAL CHAIN LINK DOUBLE LEAF GATE
Scale: 3/4" = 1'-0"

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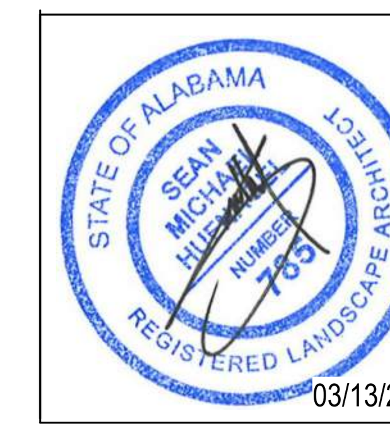
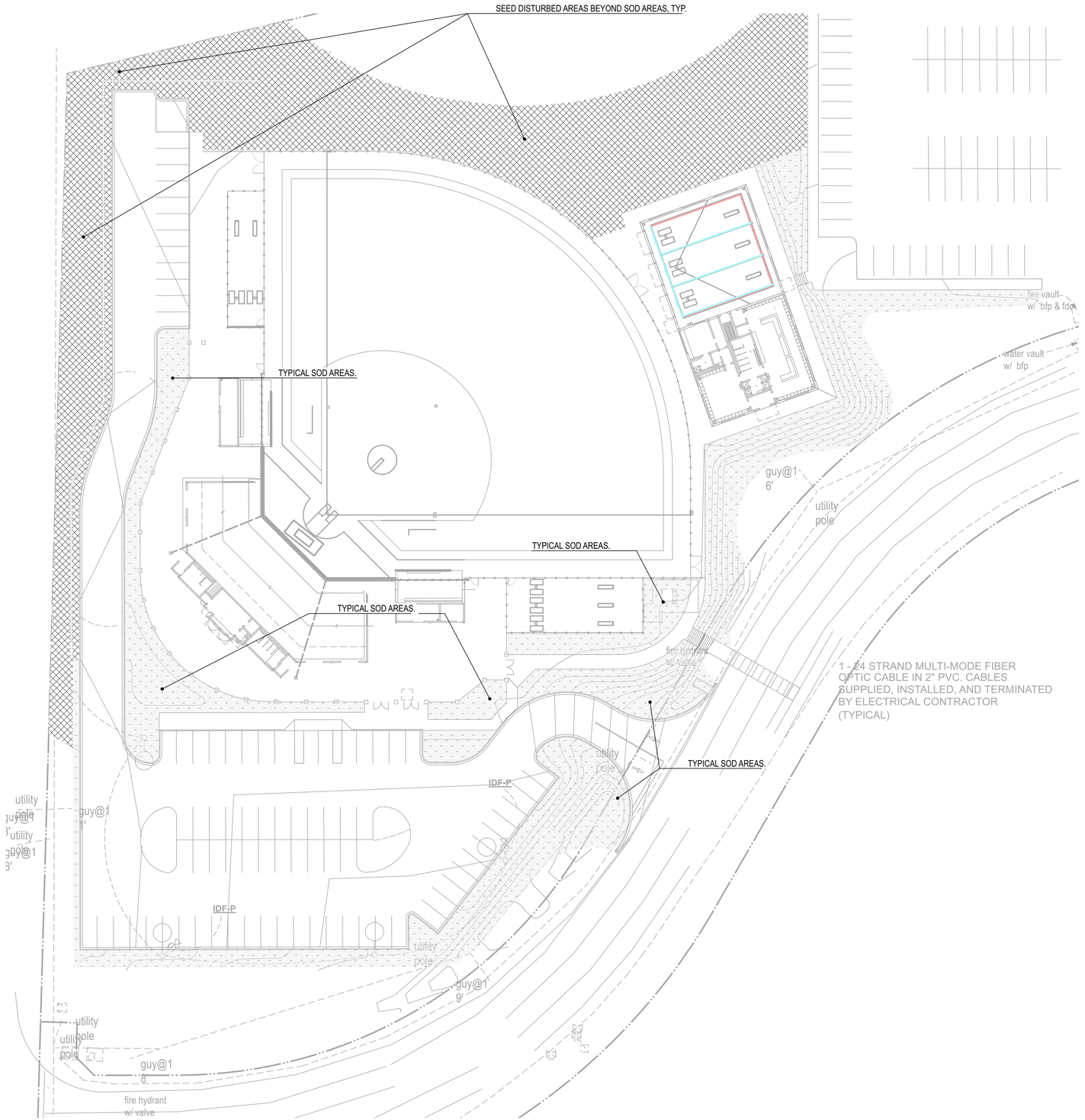


SHEET TITLE:
DETAILS

PROJ. MGR.: R. VERNON
DRAWN: DMW
DATE:03/13/24 100% BID SET
REVISIONS

JOB NO. 23-72
SHEET NO:
SP6.3
9 OF 13
0 1" 2"



1 SP7.0 **LANDSCAPE PLAN**
Scale: 1" = 30'-0"

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PLANTING NOTES

1. CONTRACTOR TO VERIFY ALL PLANT MATERIAL QUANTITIES AND PLANTING AREA DIMENSIONS PRIOR TO BEGINNING PLANTING. PROVIDE QUANTITIES AS REQUIRED TO MEET DRAWN DESIGN INTENT. IF DISCREPANCIES BETWEEN PLANS, DETAILS, AND SCHEDULE EXIST, CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY. SEE PLANTING NOTES.
2. INTENT OF LANDSCAPE PLANS IS TO REQUIRE CONTRACTOR TO PROVIDE AND INSTALL PLANTING, SEED, SOD, OR MULCH ON ALL DISTURBED AREAS. IF DISTURBANCE AND/ OR INTENT IS UNCLEAR, VERIFY WITH LANDSCAPE ARCHITECT PRIOR TO BIDDING. DUE TO MODIFICATIONS MADE DURING CONSTRUCTION, SITE CONDITIONS MAY VARY FROM THOSE SHOWN. PRIOR TO COMMENCING WORK, CONTRACTOR TO VERIFY ALL SUCH CONDITIONS TO HIS SATISFACTION. NO CHANGE IN CONTRACT PRICE WILL BE GRANTED FOR FAILUR TO OBSERVE EITHER OF THESE REQUIREMENTS.
3. GRAFTED PLANT MATERIAL IS NOT ACCEPTABLE.
4. PLANT MATERIAL EXHIBITING LICHEN OR OTHER EVIDENCE OF DISEASE IS NOT ACCEPTABLE AND WILL BE REJECTED.
5. THE CONTRACTOR SHALL, FOR HIS OWN PROTECTION, VERIFY THE PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION.
6. REMOVE BASE MATERIAL, ROCKS, DEBRIS, ETC. FROM PLANTING AREAS BEFORE PLANTING OPERATIONS BEGIN.
7. NO PLANT MATERIAL SHALL BE SET WITH ROOT CROWN LOWER THAN SURROUNDING GRADE. SET TREES WITH ROOT CROWN 2" - 4" ABOVE SURROUNDING GRADE; SET SHRUBS WITH ROOT CROWN 1" - 2" ABOVE SURROUNDING GRADE.
8. FLAG ALL TREE LOCATIONS AND PAINT BED LINES FOR LANDSCAPE ARCHITECT'S ON-SITE REVIEW AND APPROVAL PRIOR TO BEGINNING PLANTING OPERATIONS.
9. ALL SHRUB AREA SHALL RECEIVE TOPSOIL TO A MINIMUM DEPTH OF 8". ALL SODDED AREAS SHALL RECEIVE TOPSOIL TO A MINIMUM DEPTH OF 4", UNLESS DIRECTED OTHERWISE.
10. FERTILIZATION SCHEDULE: AMEND PLANTING MIX OF EACH PLANT WITH FERTILIZER AS FOLLOWS:
    #1 POT - 1/4 CUP 6-12-12 OR 5-10-10
    #2 POT - 1/2 CUP 6-12-12 OR 5-10-10
    #3 POT - 3/4 CUP 6-12-12 OR 5-10-10
    FLOWERING/SHADE TREE - 1 CUP PER 1/2" CAL. 6-12-12 OR 5-10-10
11. ALL PLANTED AREAS SHALL RECEIVE PINE STRAW TO A DEPTH OF 3" AFTER SETTLEMENT. PLANTED SLOPES STEEPER THAN 3:1 SHALL RECEIVE PINE STRAW MULCH TO A DEPTH OF 3" AFTER SETTLEMENT.
12. CLEANUP AT THE END OF THE PROJECT, THE CONTRACTOR SHALL PRESSURE WASH ALL CONCRETE SURFACE (I.E., CURB AND GUTTERS, SIDEWALKS, DRIVES, STORM SEWER BOXES, BRICK PAVERS, EXISTING BUILDING BRICK AND STONE, SPECIFICALLY EXISTING CONCRETE ABUTTING REQUIRED CONCRETE SURFACES WITHIN THE PROJECT AND ALL ADJACENT AREA(S) TO ELIMINATE STAINING FROM EARTHEN MATERIAL, CONSTRUCTION EQUIPMENT, OILS, PAINTS, ETC. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AT NO ADDITIONAL COSTS TO THE OWNER.

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

STATE OF ALABAMA
SEAN MICHAEL HUMPHREY
NUMBER 1751
REGISTERED LANDSCAPE ARCHITECT
03/13/24

SHEET TITLE:
LANDSCAPE PLAN

PROJ. MGR.:	R. VERNON
DRAWN:	DMW
DATE:	03/13/24 100% BID SET
REVISIONS	

JOB NO. 23-72

SHEET NO:
SP7.0

10 OF 13

0 1" 2"

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LANDSCAPE SPECIFICATIONS

PART 1 - GENERAL

1.1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2. Summary:

A. Section consists of furnishing all labor, materials, tools, tests, royalties, services and other incidentals as may be required for the good and proper completion of planting operations. In general, the Work includes ground preparation; plants and planting; guys, stakes and guying and staking; mulch and mulching; fertilizer and fertilizing; water and watering; and full maintenance.

1.3. Submittals:

A. Product Data: Submit manufacturer's product literature, instructions and guaranteed analysis for fertilizer, lime and pre-emergent herbicide.

B. Certificates: Deliver all certificates of inspection and show specific plant materials covered by each certificate.

C. Maintenance Schedule: Submit a detailed maintenance outline and schedule for the Work of this Section. Include maintenance times and procedures to be followed by the Owner's personnel.

D. Topsoil
1. Test Results: Submit three (3) copies and maintain one (1) copy of all test results on-site for reference.
2. Samples: If required, submit by volume three (3) one-half cubic foot samples each of stockpiled and imported topsoil to be used in the work.

1.4. Quality Assurance:

A. Codes and Standards:
1. Comply with state and federal laws relating to inspection for disease and insect control.
2. Plant material quality: Conform to U.S.A. Standard for Nursery Stock, American Association of Nurserymen, Inc., latest edition.
3. Plant material nomenclature:
a. Hortus Third, ed. Staff of the Liberty Hyde Bailey Hortorium, Cornell University, 1976.
b. Names commonly used in the trade if not listed in the above standard.
c. In all cases, botanical names take precedence over common names.
4. Perform sodding operations per Section V of Turfgrass Producers International (TPI) Guideline Specifications to Turfgrass Sodding, revised 1995.

B. Site Inspection: Prior to all Work of this Section, inspect all areas affected by the Work of this Section. Check existing construction to assure proper completion of the Work of this Section. Confirm all findings requiring correction in writing. Do not proceed with Work until corrective measures have been taken. Failure of the Contractor to comply with this requirement will be construed as the Contractor having accepted existing conditions and the Contractor at no cost will make any necessary or required corrective measures to the Owner.

1.5. Delivery, Storage And Handling:

A. Prior to shipment and after delivery, protect plant material from exposure to extreme heat, freezing and drying conditions. Where possible store plant material in a well-ventilated and shaded place, protected from wind and sun. Do not install material damaged during shipment or storage.

B. Prior to shipment and after delivery, protect turfgrass from exposure to freezing and drying conditions

C. An on-site storage area will be designated for the Contractor's use.

1.6. Job Conditions:

A. Dust Control:
1. Use all means necessary to control dust on and near the Work and on and near all off-site borrow areas if such dust is caused by the Contractor's operations during performance of the Work or if resulting from the condition in which the Contractor leaves the site.
2. Thoroughly moisten all surfaces as required to prevent dust being a nuisance to the public and concurrent performance of other Work on the site.

B. Protection:
1. Use all means necessary to protect all materials of this Section before, during and after installation; to protect all objects designated to remain, existing construction and to protect the public.
2. In the event of damage, immediately make all repairs and replacements necessary to the approval of the Landscape Architect and at no additional cost to the Owner.

PART 2 - PRODUCTS

2.1. Fertilizer: Comply with all State Fertilizer Laws when tested by current methods adopted by the Association of Official Agriculture Chemists. N, P, and K analysis of 5-10-10 or 6-12-12 or as recommended by soils test reports

2.2. Pre-Emergent Herbicide: Oxadiazon, oryzalin or trifluralin.

2.3. Topsoil:

A. If quantity of onsite topsoil is insufficient, provide material as required for completion of work. All topsoil, whether stockpiled or imported, is subject to this specification.

B. Natural, workable, friable, loamy sand, sandy loam to loam soil without admixture of subsoil, refuse, or foreign materials, free from hard lumps, stiff clay, hardpan, gravel, noxious weeds, brush, or other undesirable material harmful to plant growth. Topsoil found to contain any of the above materials is to be removed from the Work.

C. Exhibit a minimum field percolation rate of 3" per hour at 90% +/- standard laboratory density.

D. Testing:
1. Sample and test topsoil for compliance with specified characteristics and for nutrient and ph requirements.
2. Testing to be performed by a certified soils testing laboratory, in accordance with standard laboratory procedures.
3. Test a minimum of three (3) initial samples of any proposed topsoil.

E. Additions of fertilizer and/or lime recommended by soils test reports are part of the work of this Section. No additions to or placement of topsoil prior to initial soils test reports approval.

2.4. Lime:

A. General: Ground or crushed agricultural limestone.

B. Characteristics:
1. 90% passing a 10-mesh screen.
2. Not less than 50% passing a 60-mesh screen.
3. Neutralizing value of 90% calcium carbonate or better.
4. Dry and free flowing.

2.5. Solid Sod Turfgrass: Nursery grown turfgrass as shown on the drawings and as follows:

A. Free of objectionable grassy and broad leaf weeds, less than two (2) weed plants per fifty (50) square yards.

B. Growing Media: Furnish sod grown in loamy sandy to loam topsoil and that one-half inch minimum of soil is removed with the turf.

C. Squares: Cut to the supplier's standard width and length. Provide with less than one-half inch deviation from standard width and five percent on length. Squares and torn or uneven ends will not be acceptable.

D. Sod Strength: strong enough that it can be picked up and handled without damage.

E. Moisture Content: Do not harvest or place when its moisture content is excessively low or high.

F. Mowing Height: Prior to harvesting, the turfgrass is to be maintained at a regular mowing height from three-quarters to one and one-half inches.

G. Time Limitation: Harvest, deliver and install within a period of 24 hours

2.6. Grass Seed: Grass seed as shown on the Drawings and as follows:

A. Certified by an Official Seed Certifying Agency and tested within nine months prior to use.

B. Separately packed and delivered to the project in a seed-tight bag, each bag bearing a tag or label with the seal of the Official Seed Certifying Agency.

C. Conform to State seed laws and delivered to the site in the original unopened container, bearing the variety name, percent of germination, purity of the seed, and percent of obnoxious weeds and inert matter.

2.7. Straw Mulch For Seeded Areas: Threshed straw of oats, wheat, or rye, applied at the rate of not less than 1.75 tons per acre with a moisture content of not more than 15 percent, or if the moisture content exceeds 15 percent, proportionate increase shall be made in the rate of application.

2.8. Erosion Control Blanket: For seeded slopes greater than 3:1. Type 2.D short- term double net erosion control blanket meeting the requirements established by the Erosion Control Technology Council (ECTC) Specification and the U.S. Department of Transportation, Federal Highway Administration's (FHWA) Standard Specifications For Construction of Roads and Bridges on Federal Highway Projects.

2.9. Mulch: Location and placement as indicated on the Drawings and as follows:

A. Pine Straw Mulch: Clean, fresh, un-rotted pine straw containing no substance harmful to plant growth and free of noxious weeds, grasses, seeds, plants, roots, branches, sticks or extraneous matter.

B. Pine Bark Mulch:
1. In planted areas with 12:1 or greater slope: Shredded, course pine bark containing no cambium or other substance harmful to plant growth and free of noxious weeds, grasses, seeds, plants, roots, branches, sticks or extraneous matter.
2. In planted areas with less than 12:1 slope: Ground pine bark with a maximum size pieces of one and one half (1 1/2") inches containing no cambium or other substance harmful to plant growth and free of noxious weeds, grasses, seeds, plants, roots, branches, sticks or extraneous matter.

2.10. Plant Materials:

A. The plant species, sizes, manner in which to be furnished and quantities are given in the Plant Material Schedule on the Drawings.

B. Provide plant material of standard quality, true to name and type, and first class representatives of their species or variety. Provide labels securely attached to all plant material for purpose of inspection and identification stating correct plant name and size requirements shown on Drawings. Provide B & B material having been root pruned within the last two years. Provide container grown plants having been grown in the delivery container for at least one growing season.

C. Provide plant material having normal, well-developed branched and vigorous fibrous root systems. Provide healthy, vigorous plants free from defects, decay, disfiguring roots, sun-scald injuries, abrasions of the bark, diseases, insect pests or their eggs, borers and any other form of infestation or objectionable disfigurements.

D. Collected or grafted material will not be permitted unless otherwise indicated on the Plant Material Schedule on the Drawings.

E. Plant materials lacking compactness or proper proportions, which are weak or thin, which have a damaged or crooked leader or multiple leaders (unless specified), or plant materials injured by too close planting in nursery rows will be rejected.

F. Plant materials cut back from larger grades to meet requirements will be rejected. Plant materials shall not be pruned before planting.

G. Measurements:
1. Measure plant material with branches in normal position. Height and spread dimensions refer to main body of plant and not from branch tip to tip.
2. Take caliper measurements on the trunk 6 inches above natural ground line for trees up to 4 inches in caliper and 12 inches above natural ground line for trees above 4 inches in caliper.
3. Measurements specified are the minimum size acceptable. Take measurements after pruning, where pruning is necessary. If size range is given, provide no material less than minimum size, and provide 50% of plant materials maximum size specified.
4. Plants meeting measurements specified, but without normal balance between height and spread will be rejected.
5. Plants larger than specified and of equal quality may be accepted, but at no additional cost.

H. Balled Plants (B&B): Adequately balled with firm, natural balls of soil. If ball is cracked or broken before or during planting or if the plant is loose in ball, the plant will be rejected.

I. Container-Grown Plants: Plant material designated "container-grown" in the Plant Schedule shall be in sound containers of the size specified and free of weeds and grasses. If root and soil mass is cracked or broken before or during planting, the plant will be rejected. Root-bound plant materials will not be accepted.

J. Option to Methods: With the Landscape Architect's approval, plant material may be furnished container-grown instead of balled, if all other requirements are met.

K. Plant material with lichen growing on the trunk or branches will not be accepted.

2.11. Water: Fresh, free from oil or any other impurity or substance harmful to the Work or to plant materials and seed. Make arrangements necessary to insure an adequate supply of water to meet the needs of this Contract. Furnish all necessary hose, equipment, attachments, and accessories necessary to complete the Work as specified.

2.12. Tree Guying System: 'Aborbrace' HTG-HD Regular Size guying system with green, UV resistant, polypropylene guy-lines, nickel-plated spring cam-lock tensioning clips and aluminum anchors or approved substitute.

PART 3 - EXECUTION

3.1. General:

A. Planting/Sodding/Seeding Season: As directed.

B. Planting Location And Area Staking: Stake planting locations and areas prior to each operation. Obtain Landscape Architect's approval before proceeding with the Work. Make minor adjustments to locations or outlines as directed. Omit staking where areas are bounded by curbs or other structures.

C. Relocation Of Plant Materials: If rock, underground construction, utility lines or obstructions are uncovered during excavation of plant pits, alternate locations will be selected by the Landscape Architect without additional cost to the Owner.

A. Damage: At all times from beginning of construction to Substantial Completion of entire project, provide protection for Work and repair damage occurring to all sections of this specification.

3.2. Subgrade/Soils

A. Inspection: Prior to all work of this Section, inspect all areas of the site. Check existing subgrade elevations, lines, grades, conditions to assure specified topsoil depths and final finished grades. Note any and all areas showing concentrations of construction debris. Confirm all findings requiring correction to the Landscape Architect in writing. Do not proceed with work until corrective measures have been taken. Failure to comply with this requirement will be construed as having accepted existing subgrade.

B. Sub-Grade Preparation:
1. Loosen sub-grade soil to a minimum depth of three (3) inches and grade to remove all ridges and depressions so that it will be parallel to proposed finished grade. All stones over two (2) inches in any dimension, sticks, rubbish and other extraneous matter shall be removed from the sub-grade soil during this operation.
2. Where concentrations of rubble, crushed limestone, concrete, asphalt and other construction debris are encountered, remove entirely to a minimum depth of 12 inches below completed subgrade. Backfill such areas with clean subgrade soil material and compact to specified density. Recondition backfilled surface as specified.
3. Where completed sub-grade areas are disturbed by subsequent operations or weather, scarify and reshape the surface prior to spreading topsoil.

C. Topsoil Placement:
1. Spread topsoil in all areas disturbed by contract work and not shown on the Drawings to be covered by other construction or materials. Install to produce required minimum finished depth as noted in the Drawings.
2. Do not place topsoil in frozen or wet conditions.
3. Thoroughly and uniformly incorporate fertilizer and/or lime during spreading operations and as recommended by soils test reports.
4. Compaction, general: Compact each soil layer to at least the specified minimum degree. Repeat compaction process until finished elevation is attained.
5. Degree of Compaction Requirements:
a. Topsoil Areas: Compact topsoil areas to ninety percent (90%)± standard laboratory density. Do not over compact.
b. Testing: Provide testing as required to assure compliance with specifications.
6. Carefully fine grade and rake topsoil surface to the finished lines, grades and elevations. During this operation, remove all stones over one (1) inch in any dimension, sticks, rubbish and other debris from the surface. Feather topsoil into existing ground surface at applicable limits of Work to produce a smooth, uniform transition from new to existing.

D. Treatment After Completion Of Grading:
1. After fine grading is complete permit no further excavating, filling or grading.
2. Use all means necessary to prevent erosion of or damage to completed areas during construction and until final acceptance of the work..

3.3. SODDING:

A. Preparation for Sodding:
1. The exposed soil surface to be sodded shall be loosened to a minimum depth of three inches (3") and graded to remove all ridges and depressions. All stone over one inch (1") in any dimension, sticks, rubbish and other extraneous matter shall be removed during this operation.
2. Finished Grading: All areas to be sodded shall then be graded and raked to the grades specified above in uniform, even slopes. The surface, when finished and settled, shall conform to the required grades and shall be free from hollows, high spots and other inequalities. During this operation, all stones over one inch (1") in any dimension, sticks and other debris shall be removed from the soil surface and disposed of off-site.

B. Sod Installation:
1. Do not place sod when ground is wet or frozen.
2. Place in straight lines, with rows placed parallel to and tightly against each other. Stagger joints.
3. Do not stretch or overlap pieces.
4. Butt edges tight.
5. Do not install torn or thin pieces
6. Locate and trim sod around all irrigation heads, valve boxes, etc. at time of sod installation.
7. Roll completed areas with hand-held roller to bond sod to soil and smooth out rough spots.
8. Cut –out and remove any torn or thin pieces and replace with fresh sod, 12 inches by 12 inches minimum. Replant areas, which show bare spots larger than 2" in any dimension.
9. Water as required.
10. Provide smooth completed surface free of irregularities, conforming to the grades and lines specified.

3.4. PERMANENT COVER SEEDING:

A. Preparation for Seeding: Refer to 3.3-A this Specification.

B. Sowing: In the areas shown and noted on the Drawings, sow specified seed at the specified rate exercising care that uniform distribution of seed is obtained. Sow on a still day, using a hopper-type seeder or other approved equipment, one-half of the seed for each area being sown in a direction at right angles to the other half. After seeding, lightly rake, roll once with a roller weighing not less than one hundred (100) pounds per linear foot, and thoroughly water with a fine spray. Maintain uniform seed distribution during raking and watering.

C. Mulching: Hand or machine apply specified mulch. Apply loose to permit air to circulate and compact enough to reduce erosion. Loosen baled mulch material and assure that bales contain no lumps or knots of compacted material. Provide a layer of mulch 1/4" thick in depth over the entire seeded area. Begin mulch application immediately following completion of sowing operations.

D. Erosion Control Blanket: Install on all seeded slopes greater than 3:1. Install per manufacturer's recommendations.

E. Prior to final acceptance of seeded areas, provide a uniform cover over all seeded areas with a density of 95% of each square yard of the seeded area and a well developed root system. For purposes of establishing an acceptable standard, scattered bare spots, none of which is larger than two (2) square feet, up to a maximum of five (5) percent of any seeded area. Reseed as required for coverage.

3.5. Plant Installation:

A. Plant Pits: Circular in outline with vertical sides. Depth, width and construction of pit as indicated on the Drawings.

B. Separate existing subgrade soils from the upper topsoil portions and remove wherever encountered during planting operations.

C. Notify Landscape Architect in writing immediately of any subsurface drainage or soil conditions, which Contractor considers detrimental to growth or survival of plant materials. State conditions and submit proposal for correction including cost of correction. Obtain approval of method of correction before continuing operations in the affected portion of the Work. Failure to comply with this requirement will be construed as having accepted the conditions.

D. Set plants in relationship to finished grade as indicated on the Drawings. Use topsoil to backfill plant pits. When plant pits have been backfilled approximately two-thirds full, water thoroughly before installing remainder to top of pit.

E. Apply fertilizer at the rate indicated on the Drawings.

F. Set trees plumb and brace rigidly in position until the topsoil has been tamped solidly around the ball and roots.

G. Cut rope or strings from top of B&B material after plant has been set. Leave burlap or cloth wrapping intact around balls.

H. Water all plants thoroughly by hose immediately after planting.

I. Guy and stake trees as indicated on the Drawings.

J. Mulch all areas not seeded or sodded and as indicated on the drawings. Use mulch materials specified in this section. Mulch within twenty-four (24) hours after planting.

K. Apply pre-emergent herbicide to shrub and groundcover beds. Strictly follow manufacturer's label directions and procedures.

L. Prune as required at the site in accordance with standard horticultural practice and as approved by the Landscape Architect. Prune with clean, sharp tools.

3.6. Maintenance Operations

A. General:
1. Provide full service type program to include watering, spraying for insect and fungus control, fertilizing, mowing, pruning and repair. The maintenance period will begin with the first plantings and terminate thirty (30) days after Substantial Completion.
2. At Substantial Completion, submit a detailed maintenance outline and schedule. Include maintenance times and procedures conducted during construction and suggested maintenance times and procedures to be followed by the Owner's personnel during the remainder of the guarantee period.

B. Plant Material Maintenance: Provide watering, weeding, cultivating, pruning, spraying, mulching, resodding, reseeding, tightening and repairing of guys, resetting plants to proper grades or upright position, restoration of planting saucer and planting replacements as necessary to keep plant materials in a healthy growing condition and keep all planted areas neat and attractive during the maintenance period.

3.7. Substantial Completion And Guarantee:

A. Review And Acceptance:
1. In the presence of the Landscape Architect, review all Work of this Section. Following completion of any required repairs, the Landscape Architect will certify to the Owner as to Substantial Completion of the planting.
2. Substantial Completion of the planting shall constitute the beginning of the Guarantee Period for the planting.

B. Guarantee Period And Replacements:
1. Guarantee the Work of this Section for one (1) year beyond the date of Substantial Completion.
2. Replace all dead plant materials and all plant materials not in a thriving condition during and at the end of the guarantee period, with no additional compensation, as weather conditions permit.
3. In the event replacement is not acceptable at the end of the guarantee period, the Owner may elect either additional replacements or credit for each item.
4. Guarantee does not apply to loss due to vandalism, acts of God, or failure of the Owner to maintain plant materials after the end of Contractor's maintenance period.
5. Periodically inspect Owner's maintenance program and procedures and submit recommendations in writing of any changes in the Owner's program, which is necessary for the success of the planting.

3.8. Final Review And Acceptance:

A. At the end of the guarantee period and in the presence of the Landscape Architect, review all Work for Final Acceptance.

B. Following completion of required repairs or renewals, the Landscape Architect will certify to the Owner as to Final Acceptance of the Work.

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ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

STATE OF ALABAMA
SEAL
MICHAEL HUMBERT
NUMBER 760
REGISTERED LANDSCAPE ARCHITECT
03/13/24

SHEET TITLE:
LANDSCAPE SPECIFICATIONS & DETAILS

PROJ. MGR.:	R. VERNON
DRAWN:	DMW
DATE:	03/13/24 100% BID SET
REVISIONS	

JOB NO. 23-72

SHEET NO:
SP7.1
11 OF 13

0 1" 2"

HNP
LANDSCAPE ARCHITECTURE
1914 28TH AVE SOUTH: BIRMINGHAM, AL 35209
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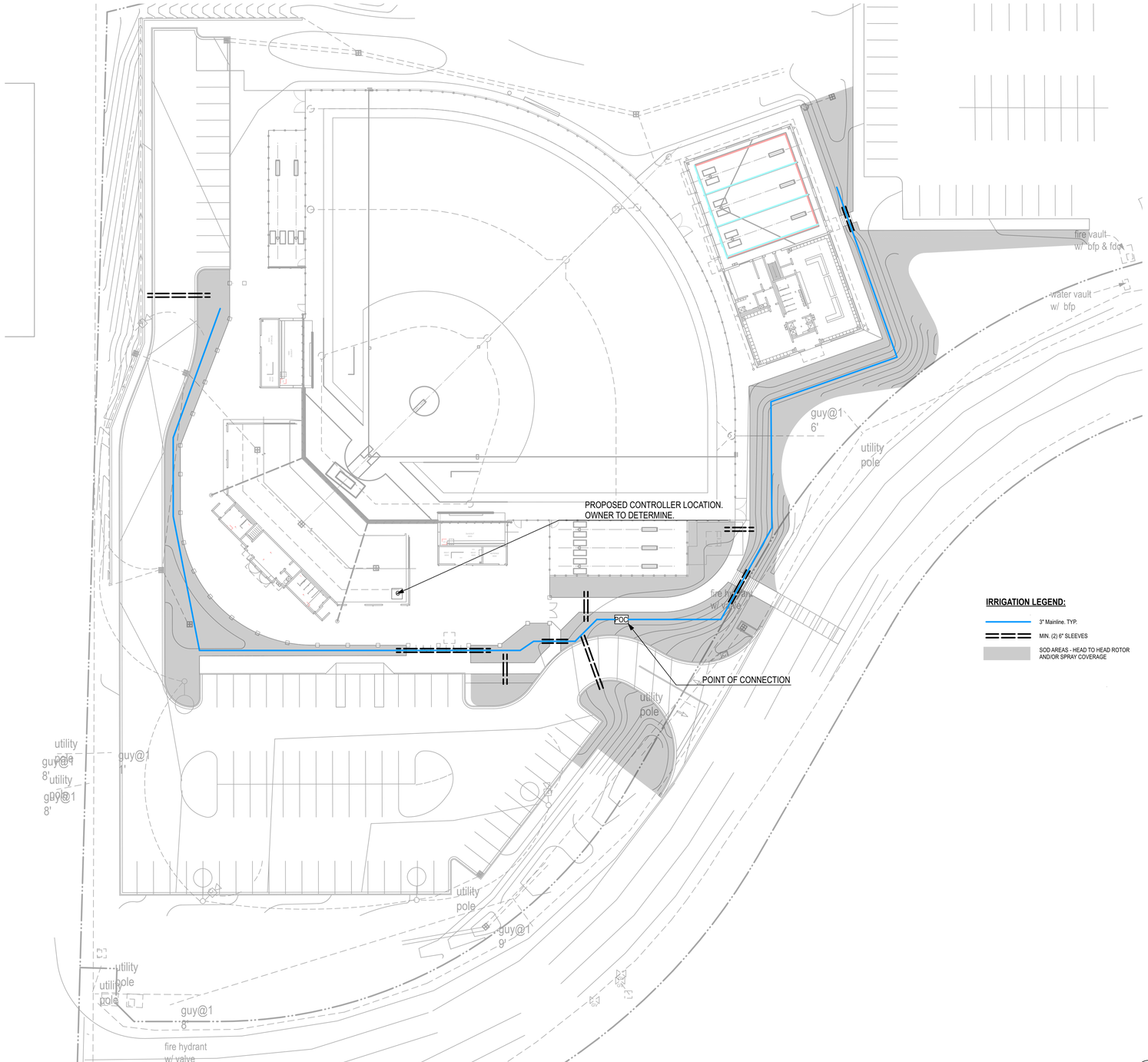

IRRIGATION LEGEND:

- 3" Mainline. TYP.
- MIN. (2) 6" SLEEVES
- SOD AREAS - HEAD TO HEAD ROTOR AND/OR SPRAY COVERAGE

0 30 60 90 FT

1 SP8.0 **IRRIGATION PLAN**
Scale: 1" = 30'-0"

IRRIGATION NOTES

1. ALL WORK WILL CONFORM TO LOCAL, STATE AND FEDERAL CODES AND REGULATIONS. OBTAIN ALL PERMITS, LICENSES, ETC. REQUIRED FOR EXECUTION OF WORK.
2. DUE TO MODIFICATIONS MADE DURING CONSTRUCTION, SITE CONDITIONS MAY VARY FROM THOSE SHOWN. VERIFY ALL SUCH CONDITIONS AS WELL AS THE PRESENCE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. NO CHANGE IN CONTRACT PRICE WILL BE GRANTED FOR FAILURE TO OBSERVE THIS REQUIREMENT.
3. CLEAN-UP AND DISPOSE OF OFF OWNER'S PROPERTY ALL DEBRIS, WASTE AND EXCESS CONSTRUCTION MATERIALS FOLLOWING COMPLETION AND LEAVE NEAT, CLEAN READY FOR OWNER'S USE.
4. LAY MAIN PIPE RUN TO A DEPTH OF 24" MINIMUM FROM FINISH GRADE AND LATERALS TO A DEPTH OF 18" MINIMUM.
5. PROVIDE ALL LABOR, MATERIALS, APPLIANCES, EQUIPMENT, SERVICES AND INCIDENTALS NECESSARY FOR FURNISHING, INSTALLING AND TESTING, COMPLETE AND READY FOR OPERATION, IN A MANNER SATISFACTORY TO THE OWNER, THE IRRIGATION SYSTEM REQUIRED BY THE DRAWINGS.
6. NO ROCKS, BOULDERS OR OTHER EXTRANEOUS MATERIALS TO BE USED IN BACKFILLING OF TRENCH.
7. ALL PIPE TO BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.
8. ALL THREADED JOINTS TO BE COATED WITH TEFLON TAPE OR LIQUID TEFLON.
9. ALL LINES TO BE THOROUGHLY FLUSHED BEFORE INSTALLATION OF SPRINKLER HEADS.
10. SCHEDULE QUANTITIES ARE FOR REFERENCE AND BUDGET PRICING ONLY. CONTRACTOR TO VERIFY QUANTITIES REQUIRED FOR FINAL DESIGN AND IN-FIELD ADJUSTMENTS.
11. PROVIDE BALL VALVE ON SUPPLY SIDE OF ALL CONTROL VALVES.
12. DRIP AREAS SHOWN ARE DIAGRAMATIC FOR CLARITY. PLACE DRIP LINES IN FIELD TO ENSURE CONTINUOUS DRIP LINE IS PRESENT ON BOTH SIDES OF PLANT 3-6" FROM STEM. SEE DETAIL.
13. GANG VALVES IN BOXES TO MINIMIZE QTY OF BOXES REQUIRED. CONCEAL BOXES IN PLANTING AREAS OR IN REMOTE PORTION OF LAWN.
14. RUN DRIP LINE PARALLEL TO CONTOURS. PROVIDE CONTINOUS LOOP SYSTEM IN PLANTING AREAS. SEE DETAIL. TYP.
15. SPRINKLER AND RELATED EQUIPMENT TO BE INSTALLED AS PER DETAILS.
16. INSTALLER SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE CONSTRUCTION.
17. LAYOUT IS DIAGRAMMATIC IN NATURE. INSTALLER SHALL NOTE ON PLANS, THE ACTUAL LOCATION OF PIPES, HEADS, VALVES, AND CONTROLLERS. THIS PLAN IS THEN TO BE GIVEN TO THE OWNER AS AN AS-BUILT DRAWING.
18. PROVIDE MAGNETIC DETECTABLE TRACER WIRE ABOVE ALL PIPE RUNS.

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TRUSSVILLE CITY BOARD OF EDUCATION

STATE OF ALABAMA
SEAN MICHAEL WILLIAMS
NUMBER 765
REGISTERED LANDSCAPE ARCHITECT
03/13/24

SHEET TITLE:
IRRIGATION PLAN

PROJ. MGR.:	R. VERNON
DRAWN:	DMW
DATE:	03/13/24 100% BID SET
REVISIONS	

JOB NO. 23-72
SHEET NO:
SP8.0
12 OF 13

0 1" 2"

IRRIGATION SYSTEM SPECIFICATIONS
CONVENTIONAL SYSTEM : DESIGN/BUILD

PART 1 - GENERAL

1.1. SUMMARY

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

B. Section includes all labor, materials, appliances, equipment, services to include system design and incidentals necessary for furnishing, installing and testing, complete and ready for operation, in a manner satisfactory to the Landscape Architect, the irrigation system required by these Specifications.

C. Without restricting the generality of the foregoing, the Work includes the following:
1. Complete shop drawings of system design.
2. A complete system of irrigation water piping.
3. Irrigation system equipment, trimmings and the like, as herein specified.
4. Any items incidental to proper completion of all irrigation system work as specified.

1.2. SUBMITTAL

A. Product Data: Submit a detailed list showing each item which is to be furnished by make, trade name or catalog number; together with manufacturer's specifications, certified prints, cut sheets, and other data sufficient for making comparisons with items specified.

B. Shop Drawings: Submit complete shop drawings as required by owner

C. Hydrostatic Test Results: Submit three (3) copies and maintain one (1) copy of all test results on-site for reference.

D. Project Close-Out:
1. Record 'As-Built' Drawings (digital format).
2. Equipment Operating and Maintenance Manuals (3).
3. Maintenance Schedule (3).
4. Equipment Warranty dates and guarantees (3).
5. List of Owner's personnel who have received operation and maintenance instructions.
6. Spare Parts.
7. Valve Schedule: Provide a printed list of valves, giving number and control of each, also a small, scale diagram outlining the general run of pipe lines and giving the location of valves. Produce diagram by standard drafting techniques.

1.3. QUALITY ASSURANCE:

A. Comply with local, state, and federal laws and National Sanitation Foundation recommendations governing or relating to this Work.

B. Site Inspection: Prior to all Work of this Section, inspect all areas affected by the Work of this Section. Check existing construction to assure proper completion of the Work of this Section. Confirm all findings requiring correction in writing. Do not proceed with Work until corrective measures have been taken. Failure of the Contractor to comply with this requirement will be construed as the Contractor having accepted existing conditions and the Contractor at no cost will make any necessary or required corrective measures to the Owner.

1.4. MINIMUM QUALIFICATIONS OF CONTRACTOR:

A. Satisfactory experience record with installations of character and scope comparable to this project.

B. In business as a contractor for work of this type, continuously, for at least five (5) years prior to the date of this project.

1.5. INTENT OF SPECIFICATION:

A. It is the intent of this Specification to accomplish the installation of an automatic irrigation system which will operate in an efficient and satisfactory manner according to industry standards established for such system operations. The system will provide full and complete head to head coverage, without overspray onto all other use areas and structures, of all plants and planted areas shown on the Irrigation Coverage Plan. Design and install the system to separate shrub and groundcover stations from lawn areas. Layout system stations to include coverage for similar environmental conditions. Account for unique watering needs of trees as necessary.

B. Adjust design and notify owner of any changes to coverage area or equipment necessary to meet field conditions, or in order to avoid conflict with the equipment of other trades.

C. Shop Drawings: Submit for the Landscape Architect's review prior to beginning any installation, shop drawings of his entire system design as follows:
1. Make all shop drawings accurately to the scale of scales of the Drawings. Where critical points develop enlarge the area sufficiently to show all pertinent aspects of the installation. Make all necessary measurements in the field to insure proper fit of all items in accord with specifications intent.
2. Shop drawings will, at the minimum, show (in addition to the entire irrigation system to include sleeve locations; pipe runs; pipe sizes; head types, throws and locations; valve types and locations; controller locations; meter locations; pressure reducer locations; backflow preventer location; supply points and sizes and other system items) planting, beds, lawn areas, building outlines, walks, drives, parking areas and project site boundaries.
3. Reproductions of the Planting Drawings will not be used for shop drawings except with written consent.
4. Type of Prints Required; Submit shop drawings in the form of three (3) prints of each sheet.

D. All equipment and accessories shall be located in such a manner as to provide ready access for proper service and maintenance.

1.6. COORDINATION: Sleeves under walks, roadways, paving, etc., are installed as part of the work of this Section.

1.7. TESTS: Include all tests specified and/or required under laws, rules and regulations of all departments having jurisdiction.

PART 2 - PRODUCTS

2.1. GENERAL:

A. Provide new, standard, first-grade materials throughout.

B. Materials and products specified by manufacturer's name, brand, trade name, or catalog reference, are the basis of design. Substitutions will be considered only by written request for approval. Include in each request the name of the material or equipment for which substitution is proposed and a complete description of the proposed substitute including drawings, cut sheets, performance and test data and any other information necessary for evaluation. The burden of proof of the merit of the proposed substitute is upon the proposer.

C. Provide similar items of equipment from the same manufacturer

2.2. BACKFLOW PREVENTER: Verify type and provide backflow prevention device approved by local water authority.

A. Double Check Backflow Preventer: 'Watts' 007 Double Check Assembly.

B. Reduced Pressure Backflow Preventer: 'Watts' 009 Reduced Pressure Zone Assembly with insulated enclosure and heating element.

2.3. WATER METER: Provide water meter meeting the requirements of the local water authority.

2.4. ISOLATION GATE VALVES: 125-pound rated minimum, mechanical joint, rising stem, resilient wedge, of size required for the line indicated on the Drawings.

2.5. EQUIPMENT SUPPORTS: Provide supports for piping and equipment. Hot dip galvanize after fabrication all supports, etc., located outdoors. Paint all exposed flat black.

2.6. PIPE:

A. General: Conforming to ASTM Standards for pipe of each material; each length or fitting stamped or indelibly marked with weight or quality thereof, and maker's name or mark best quality, free from cracks, holes, blisters and other defects.

B. Plastic Pipe:
1. Sleeves: Schedule 40 PVC or as noted in the Drawings.
2. Main Line or any pipe ≥ 3" dia.: Schedule 40 PVC. Gasket pipe and fitting. No insert gaskets or insert gasket fittings will be accepted.
3. Lateral Line: 1" - 2 1/2" diameter, Class 200 PVC, solvent weld.
4. Fittings: PVC for corresponding service.

C. Copper Tube: ASTM Specifications B88, copper water tube type "K" with cast brass or wrought copper water tube fittings.

2.7. CONCRETE THRUST BLOCKS: 3000psi cast-in place concrete. Size as req'd.

2.8. RAIN/FREEZE SENSOR: Furnish and install Rainbird, Hunter, Toro or approved substitute as shown on the Shop Drawings. Connect to controller.

2.9. FLOW SENSOR: Furnish and install Rainbird, Hunter, Toro or approved substitute as shown on the Shop Drawings. Connect to controller.

2.10. IRRIGATION CONTROLLER: Furnish and install Rainbird, Hunter, Toro or approved substitute as shown on the Shop Drawings. Provide WIFI/Network connection and capability for owner/maintenance use. Flow and weather sensing required.

2.11. LINE SURGE PROTECTION: As required by MFGR.

2.12. IRRIGATION CONTROL WIRING: Sprinkler wire, No. 14 UF; single, solid, copper conductor with watertight connectors. Splicing between boxes is not acceptable.

2.13. VALVE ACCESS:

A. Provide access to underground valves and the like as follows:
1. Remote Control Valves: 10" round valve box or approved substitute.
2. Gate Valves: 6" round valve box or approved substitute.
3. Control Valves/Drain Valves/Other Underground Devices: Plastic box and cover (size as required) or approved substitute.
4. Valve box extensions: Match base valve box

2.14. REMOTE CONTROL VALVES: Furnish and install Rainbird, Hunter, Toro or approved substitute as shown on the Shop Drawings. Size to match required flow/pressure.

2.15. IRRIGATION HEADS AND NOZZLES: Furnish and install Rainbird, Hunter, Toro or approved substitute as shown on the Shop Drawings.

2.16. LANDSCAPE DRIP LINE: Furnish and install Rainbird, Hunter, Toro or approved substitute as shown on the Shop Drawings. Subsurface Rated. Provide pressure indicators per MFGR recommendations.

2.17. OTHER MATERIALS: All other materials, not specifically described but required for a complete and proper irrigation system installation, shall be new, first quality of their respective kinds, and subject to the approval of the Landscape Architect.

PART 3 - EXECUTION

3.1. GENERAL:

A. The Irrigation Drawings are diagrammatic in general, subject to the requirements of the Specifications, and not intended to show all fittings or all details of the work. Follow Drawing as closely as possible, checking all dimensions against conditions existing in the field.

B. Water Piping:
1. Plastic: In planted areas.
2. Copper Tube: Where passes through concrete, is to be covered by concrete, or is exposed.

C. Provide full and complete coverage of all watered areas and make any minor adjustments as required.

3.2. EXCAVATING AND BACKFILLING:

A. Excavate trenches wide enough for proper installation of work and grade trench bottoms evenly, providing bell holes as necessary to insure uniform bearing for pipes. Do not block or mound material to bring pipe to final grade. In rocky areas excavate an additional six (6) inches below specified trench depth to allow for proper bedding of pipe. Trench excavation is defined as unclassified excavation for the purposes of this Section. Refill any cuts below required pipe grade with selected material and firmly compact. Properly shore trenches to protect workmen and adjacent work.

B. Backfill after inspection authority's approval. Backfill with selected material and compact. Use only backfill material free of wood, steel, brick, rock, etc. Under pavements and other surfacing, compact in 6" layers. In backfilling, take care to not disturb pipe.

3.3. PIPE INSTALLATION:

A. Pipe Line Assembly:
1. Lay out work and install as accurately as possible to the Drawings and in accordance with pipe manufacturer's recommendations.
2. Install no piping in direct contact with slag fill. Where necessary to pass through slag, protect piping with not less than two (2) wrappings of polyvinyl chloride tape, or equivalent protection.
3. Install all piping concealed, except where specifically shown or specified exposed. Lay underground piping to depth of cover as indicated on the Drawings. Support underground piping solidly along body of pipe. Pipes sharing the same trench shall have a minimum horizontal and vertical separation of 4".
4. Install in a manner to provide for expansion and contraction as recommended by the manufacturer.
5. Provide concrete thrust blocks at all changes in direction of main line piping as indicated on the Drawings.

B. Pipe Joints:
1. Threaded Piping: Make joints with Teflon tape applied to male threads as recommended by the manufacturer.
2. Plastic Piping: Solvent weld according to recognized plumbing practices.
   a. For joining PVC pipe, use a cement complying with ASTM D-2564 and recommendations of pipe manufacturer.
   b. For cleaning PVC use a cleaner complying with recommendations of pipe manufacturer.
3. Whenever dissimilar metals connect, provide dielectric insulating unions or couplings.
4. Make all connections between plastic pipe and metal pipe and equipment with threaded fittings using plastic adapters and Teflon tape.
5. In Copper Tubing: 95-5 solder joints in accordance with recognized plumbing practices.

C. Closing of Pipe and Flushing Lines:
1. Temporarily cap or plug open ends as soon as lines have been installed to prevent the entrance of materials that would obstruct the pipe. Leave in place until removal is necessary for completion of installation.
2. Thoroughly flush out all water lines after testing and before installing heads.

3.4. HYDROSTATIC TESTS:

A. Prior to backfilling of trenches, center load piping to prevent arching or slipping under pressure.

B. Main lines and sub-mains: Apply a continuous and static water pressure of 100 psi minimum when welded plastic joints have cured at least 24 hours and with the risers capped. Test for six (6) hours with 5 psi loss maximum.

C. Repair leaks resulting from tests.

D. Provide Verification of passing result to Owner

E. After testing, leave general pressure on until ready to install heads, except when necessary to drain to avoid freezing during construction.

3.5. WATER METER: Verify location of placement with local water authority and install per their requirements.

3.6. BACKFLOW PREVENTER: Verify location of placement with local water authority and install per their requirements and as follows:

A. General
1. Install so that device is a minimum of 12 inches from any walls, ceilings, side of pit or encumbrances
2. Install in a horizontal position only.
3. Readily accessible for testing, repair, and maintenance

B. Double Check Backflow Preventer:
1. Install in a pit approved by the local water authority

C. Reduced Pressure Backflow Preventer:
1. Protect from freezing and vandalism.
2. Provide concrete pad, enclosure and electrical connections for heating element. Install so that bottom of device is a minimum of 12 inches above the ground or floor.
3. Do not install in a pit.
4. Do not connect relief valve directly to any waste disposal line, including sanitary sewer, storm drains or vents.

3.7. LANDSCAPE DRIP LINE: Install Landscape Drip Line per manufacturer's recommendations.

3.8. REMOTE CONTROL VALVES/DECODER: Install where indicated on Shop Drawings and in accordance with manufacturer's recommendations. Valve/decoder connectors shall include a 36" wire expansion coil to facilitate raising splices to ground level without cutting wires.

3.9. IRRIGATION CONTROLLER: Install where indicated on the Shop Drawings and in accordance with manufacturer's recommendations. Provide power and network access.

3.10. ISOLATION VALVES: Install as indicated on the Shop Drawings. Provide valve operating tool(s) in the event valves are installed below arm access from finished grade. Quantity and placement of isolations valves should allow for efficient system service and proper winterization.

3.11. VALVE BOXES: All valves shall be installed in valve boxes of sufficient size to perform routine maintenance on valves. Install in inconspicuous yet accessible areas. Avoid areas where safety and aesthetics are of importance (play lawns, building entries, seating areas, along sidewalks, etc). Install so that the top is flush with finished grade and square with adjacent building, wall, walk, etc. Install valve box extensions as required to bring top of valve box flush with finished grade.

3.12. CONTROL WIRING/LINE SURGE PROTECTION: Install control wiring in a neat and orderly manner, run in same trench as piping. Make connections to remote control valve using specified connectors. Do not exceed manufacturer's recommended maximum length of wire runs or distances between line surge protection. Make connections to the controller as required.

3.13. IRRIGATION HEADS/ROTORS/NOZZLES: Install all heads as shown and detailed on the Shop Drawings. Heads shall be installed with a 2" space between the edge of the head and curbs, walls, sidewalks, driveways, etc. Set plumb to finished grade. Do not use thread sealing compound on threaded connections between sprinkler head and nipple. Install proper nozzle to achieve coverage required.

3.14. FINAL TEST: Test and adjust all parts of the irrigation system, and associated equipment to work properly and be left in perfect operating condition. Correct all defects disclosed by these tests.

3.15. SPARE PARTS: Provide the Owner with the following:

A. Two (2) extra sprinkler head(s) with nozzles, of each size and type;

B. One (l) extra valve(s) of each size;

C. One (l) extra valve access box(es);

D. One (l) key(s) for manual valves;

E. Two (2) head adjustment wrenches;

F. Five (5) repair couplings for each size and type of pipe.

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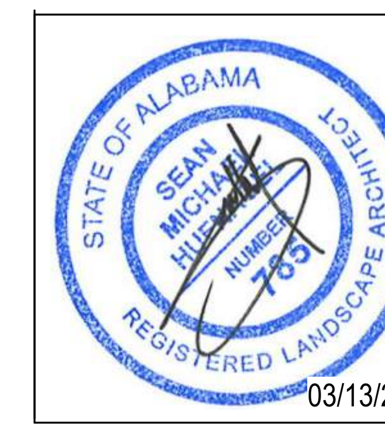
TRUSSVILLE CITY BOARD OF EDUCATION



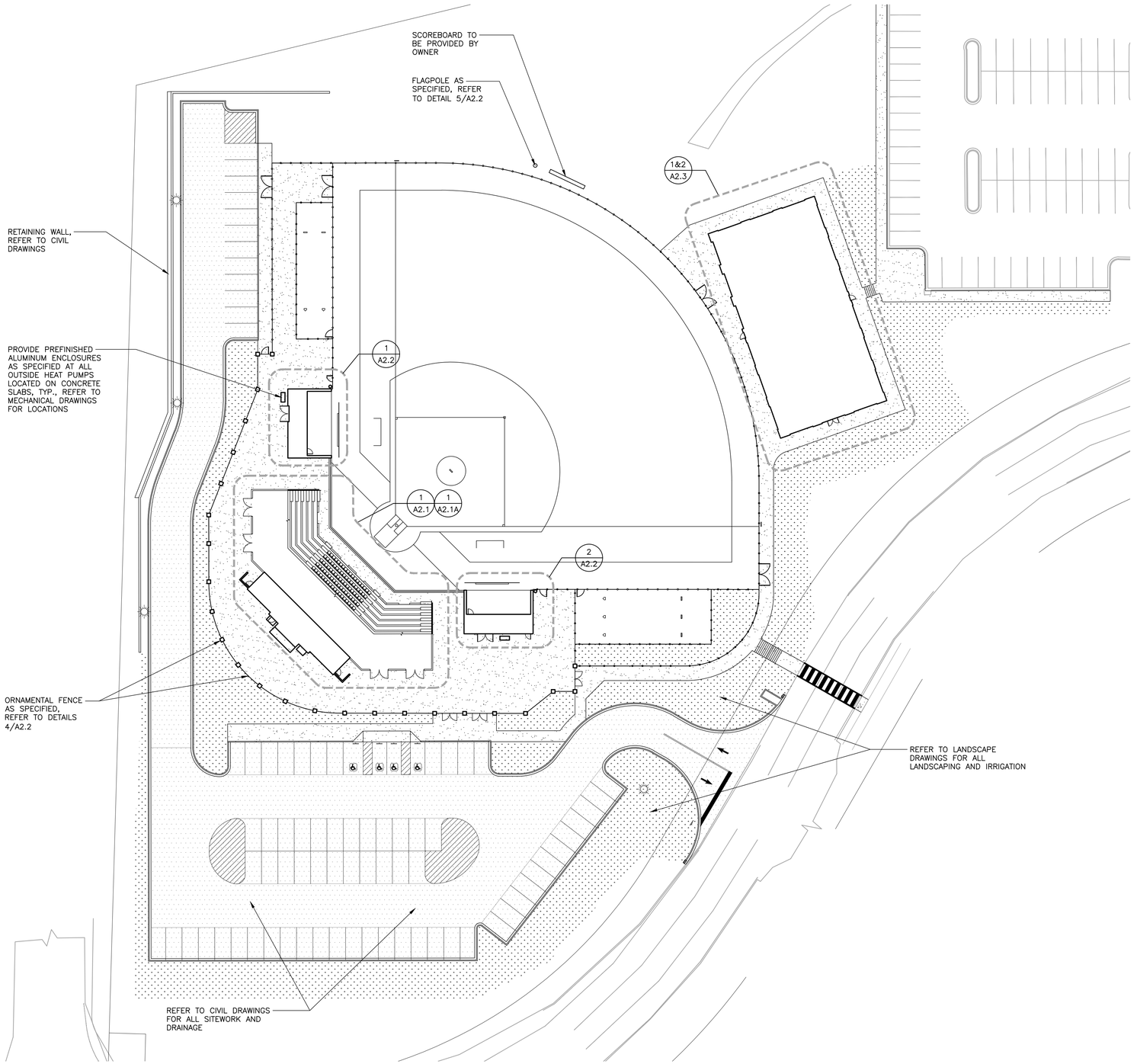
03/13/24

SHEET TITLE:
IRRIGATION SPECIFICATIONS & DETAILS

PROJ. MGR.: R. VERNON
DRAWN: DMW
DATE:03/13/24 100% BID SET
REVISIONS

JOB NO. 23-72
SHEET NO:
SP8.1

0 1" 2"



GENERAL SITE PLAN LEGEND	
	NEW ASPHALT PAVING SYSTEM, SEE CIVIL
	NEW TOOL SCORED CONCRETE PAVING SYSTEM, SEE CIVIL
	NEW SOD/SEED/LANDSCAPING, SEE CIVIL/ LANDSCAPING PLANS FOR LOCATIONS AND LIMITS

1 ARCHITECTURAL SITE PLAN

1" = 30'-0"

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

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

SHEET TITLE:
ARCHITECTURAL SITE PLAN

PROJ. MGR.:	R.VERNON
DRAWN:	TSS
	hdr
DATE:	MARCH 13, 2024
REVISIONS	

JOB NO. 23-72

SHEET NO:

A1.1

1 OF 33

0 1" 2"

WALL TYPE LEGEND

CMU WALL	6", 8" OR 12" CONCRETE MASONRY WALL. (CMU) SEE PLAN FOR WALL WIDTH CHANGES. SEE LIFE SAFETY PLAN FOR FIRE RATING
SOUND ATTENUATION PARTITION	8" OR 12" CONCRETE MASONRY WALL WITH SOUND ATTENUATION

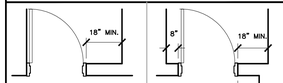
GENERAL NOTES

- SEE ARCHITECTURAL FINISH PLANS AND SPECIFICATIONS FOR AREAS REQUIRING THICKSET OR THINSET CERAMIC TILE INSTALLATION. COORDINATE WITH SUBCONTRACTOR AND DROP CONCRETE FLOOR SLAB IN SUCH AREAS AS REQUIRED AND RECOMMENDED BY THE TILE MANUFACTURER AND THE "TILE COUNCIL OF AMERICA." PROVIDE SLOPE FOR POSITIVE DRAINAGE IN AREAS WITH FLOOR DRAINAGE SYSTEM.
- EXTEND & KEY RATED WALLS TO BOTTOM OF ROOF DECK - SEE LIFE SAFETY DRAWINGS FOR RATED WALL LOCATIONS.
- COORDINATE W/ ELECTRICAL & MECHANICAL AND PROVIDE CONCRETE EQUIPMENT PAD AS REQUIRED
- SEE ELEVATIONS AND ROOF PLAN FOR DOWNSPOUT LOCATIONS
- SEE CIVIL DRAWINGS FOR CONTINUATION OF SIDEWALKS
- ALL PLAN DIMENSIONS ARE TO FACE OF CMU AND TO OUTSIDE OF BRICK , STONE AND TO FACE OF GYP. BD. UNLESS NOTED OTHERWISE
- SLOPE ALL SIDEWALKS AWAY FROM THE BUILDING
- SLOPE FINISH FLOOR TO FLOOR DRAINS. SEE PLUMBING FOR LOCATIONS OF FLOOR DRAINS.

SYMBOLS LEGEND

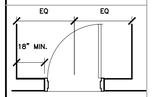
TC / A — DOOR TYPE, DOOR RATING, HARDWARE SYMBOL, ACCESS CONTROL	TC / A — DOOR TYPE, DOOR RATING, HARDWARE SYMBOL
A / A1.1 — ELEV. MARK, SHEET NUMBER	1 / A1.1 — SECT. MARK, SHEET NUMBER
5 / A5.1 — ELEV. MARK, SHEET NUMBER, INT. ELEVATION	1 — EXTERIOR WINDOW/ STOREFRONT
NEW DOOR AND SWING	A — INTERIOR WINDOW
AREA OF CONCRETE	GR — GUARDRAILING
FE — SURFACE MOUNT FIRE EXTINGUISHER	A200 — ROOM NUMBER
F.D. — FLOOR DRAIN	EWC — ELECTRIC WATER COOLER
CJ — CONTROL JOINT	DS — DOWNSPOUT
	FEC — RECESSED FIRE EXTINGUISHER CABINET WITH EXTINGUISHER

DOOR PLACEMENT LEGEND



FLUSH FRAME

OFFSET FRAME



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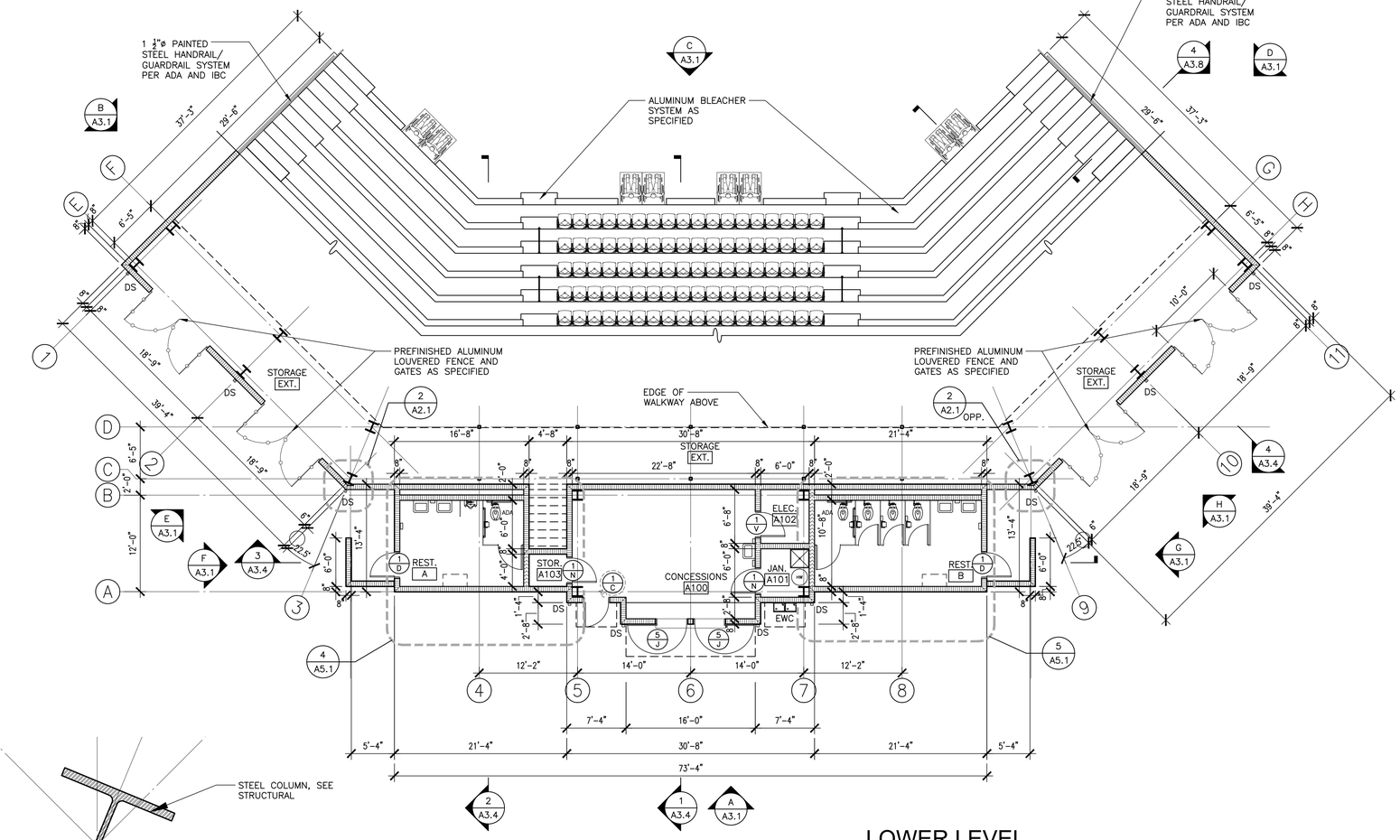
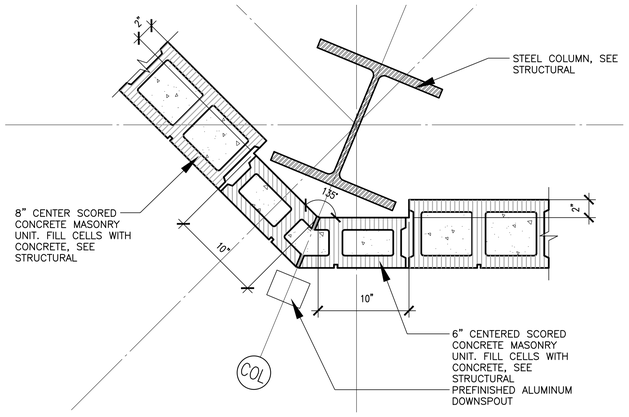


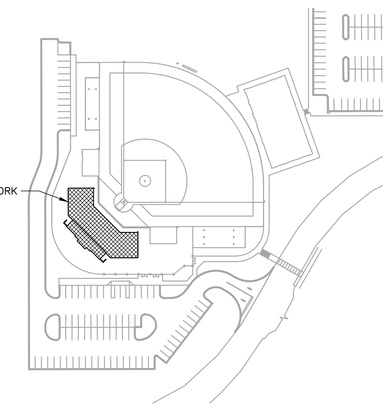
1 LOWER LEVEL CONCESSION / BLEACHER FLOOR PLAN

1/8" = 1'-0"



2 PLAN DETAIL

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



KEY PLAN

NTS

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

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

SHEET TITLE:
LOWER LEVEL CONCESSION / BLEACHER FLOOR PLAN

PROJ. MGR.: R.VERNON
DRAWN: TSS
hdr
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
A2.1
2 OF 33

WALL TYPE LEGEND

CMU WALL	6", 8" OR 12" CONCRETE MASONRY WALL. (CMU) SEE PLAN FOR WALL WIDTH CHANGES. SEE LIFE SAFETY PLAN FOR FIRE RATING
SOUND ATTENUATION PARTITION	8" OR 12" CONCRETE MASONRY WALL WITH SOUND ATTENUATION

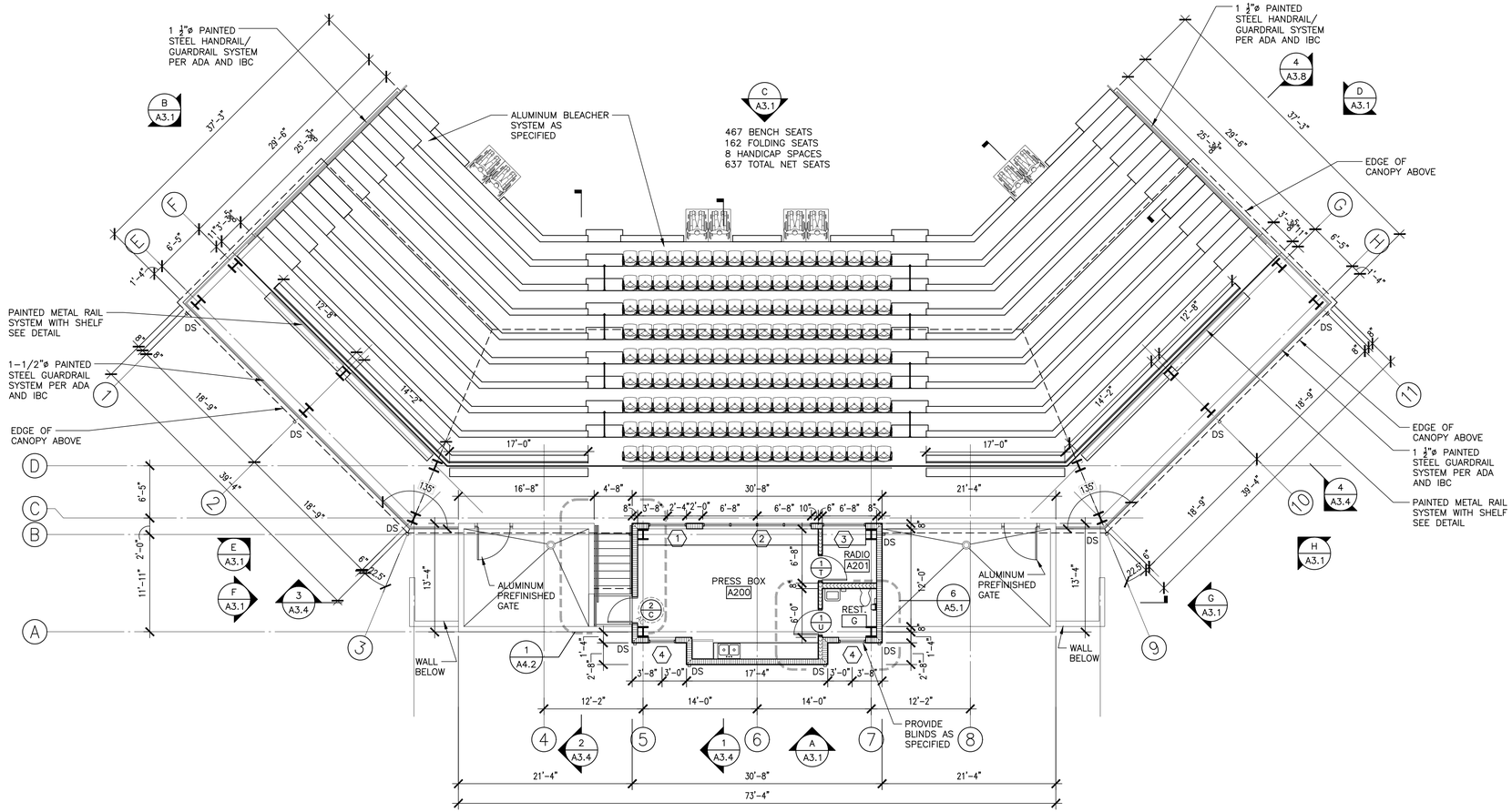
GENERAL NOTES

- SEE ARCHITECTURAL FINISH PLANS AND SPECIFICATIONS FOR AREAS REQUIRING THICKSET OR THINSET CERAMIC TILE INSTALLATION. COORDINATE WITH SUBCONTRACTOR AND DROP CONCRETE FLOOR SLAB IN SUCH AREAS AS REQUIRED AND RECOMMENDED BY THE TILE MANUFACTURER AND THE "TILE COUNCIL OF AMERICA." PROVIDE SLOPE FOR POSITIVE DRAINAGE IN AREAS WITH FLOOR DRAINAGE SYSTEM.
- EXTEND & KEY RATED WALLS TO BOTTOM OF ROOF DECK - SEE LIFE SAFETY DRAWINGS FOR RATED WALL LOCATIONS.
- COORDINATE W/ ELECTRICAL & MECHANICAL AND PROVIDE CONCRETE EQUIPMENT PAD AS REQUIRED
- SEE ELEVATIONS AND ROOF PLAN FOR DOWNSPOUT LOCATIONS
- SEE CIVIL DRAWINGS FOR CONTINUATION OF SIDEWALKS
- ALL PLAN DIMENSIONS ARE TO FACE OF CMU AND TO OUTSIDE OF BRICK , STONE AND TO FACE OF GYP. BD. UNLESS NOTED OTHERWISE
- SLOPE ALL SIDEWALKS AWAY FROM THE BUILDING
- SLOPE FINISH FLOOR TO FLOOR DRAINS. SEE PLUMBING FOR LOCATIONS OF FLOOR DRAINS.

SYMBOLS LEGEND

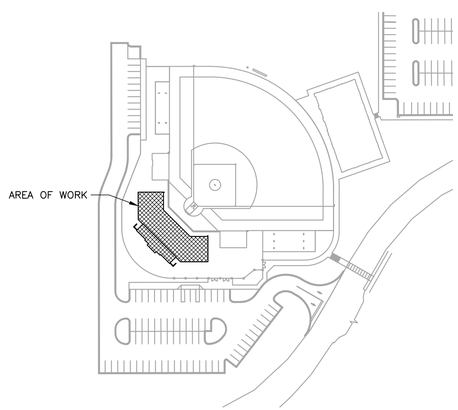
TC / A — DOOR TYPE, DOOR RATING, HARDWARE SYMBOL, ACCESS CONTROL	TC / A — DOOR TYPE, DOOR RATING, HARDWARE SYMBOL
A / A1.1 — ELEV. MARK, SHEET NUMBER	1 / A1.1 — SECT. MARK, SHEET NUMBER
5 / A5.1 — ELEV. MARK, SHEET NUMBER, INT. ELEVATION	1 — EXTERIOR WINDOW/ STOREFRONT
NEW DOOR AND SWING	A — INTERIOR WINDOW
AREA OF CONCRETE	GR — GUARDRAILING
FE — SURFACE MOUNT FIRE EXTINGUISHER	A200 — ROOM NUMBER
F.D. — FLOOR DRAIN	EWC — ELECTRIC WATER COOLER
CJ — CONTROL JOINT	DS — DOWNSPOUT
	FEC — RECESSED FIRE EXTINGUISHER CABINET WITH EXTINGUISHER

DOOR PLACEMENT LEGEND



1 UPPER LEVEL PRESS BOX / BLEACHER FLOOR PLAN

1/8" = 1'-0"



KEY PLAN

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LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
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6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
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STATE OF ALABAMA
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SHEET TITLE:
UPPER LEVEL PRESS BOX / BLEACHER FLOOR PLAN

PROJ. MGR.:	R.VERNON
DRAWN:	TSS
	hdr
DATE:	MARCH 13, 2024
REVISIONS	

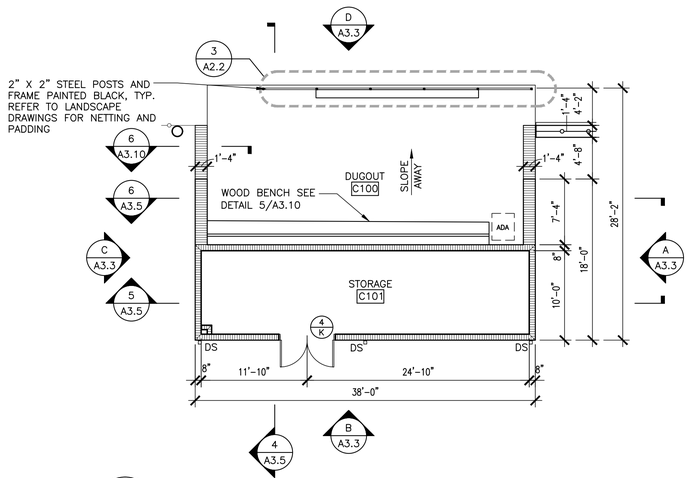
JOB NO. 23-72

SHEET NO:

A2.1A

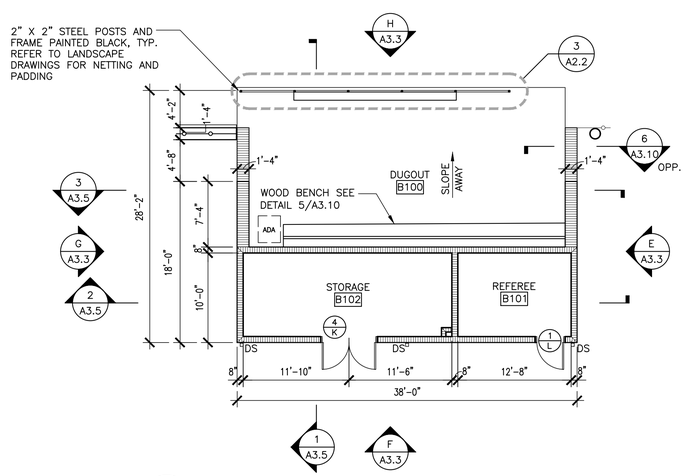
3 OF 33

0 1" 2"



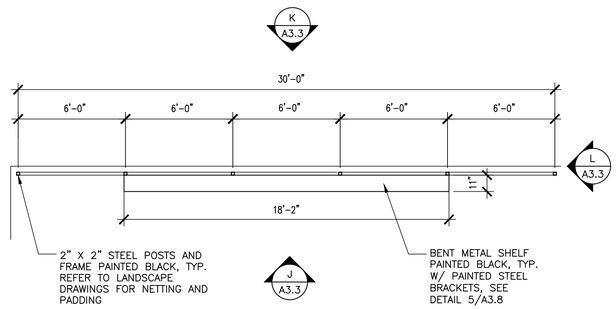
1 VISITOR DUGOUT PLAN

1/8" = 1'-0"



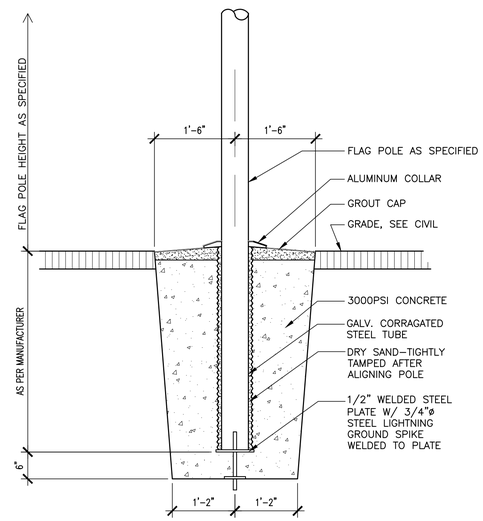
2 HOME DUGOUT PLAN

1/8" = 1'-0"



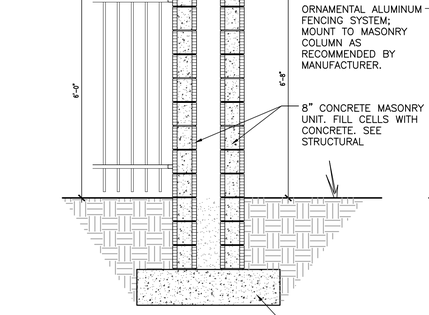
3 ENLARGED DUGOUT NETTING PLAN

1/4" = 1'-0"

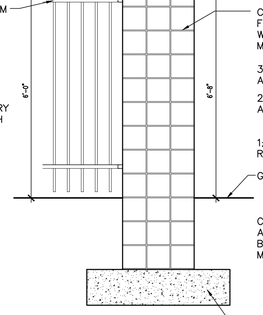


5 FLAGPOLE DETAIL

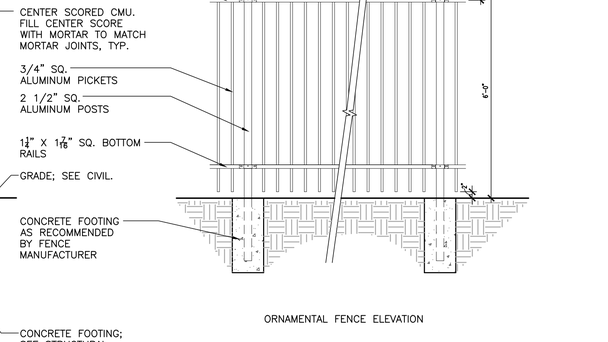
3/4" = 1'-0"



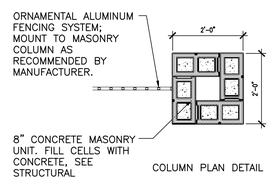
ORNAMENTAL COLUMN SECTION



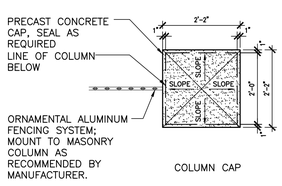
ORNAMENTAL COLUMN ELEVATION



ORNAMENTAL FENCE ELEVATION



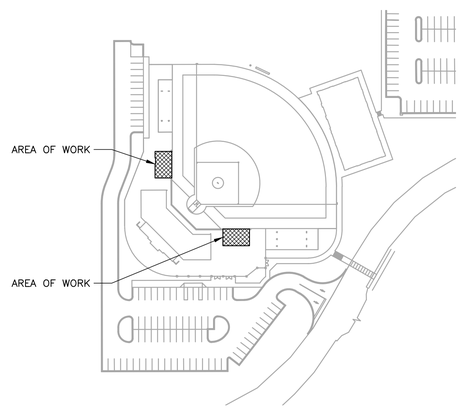
COLUMN PLAN DETAIL



COLUMN CAP

4 ORNAMENTAL FENCE / COLUMN PLANS, ELEVATIONS AND SECTIONS

1/2" = 1'-0"



KEY PLAN

NTS

GENERAL NOTES

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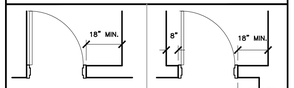
SOUND ATTENUATION PARTITION	8" OR 12" CONCRETE MASONRY WALL WITH SOUND ATTENUATION

SYMBOLS LEGEND

TC / A	DOOR TYPE, DOOR RATING, HARDWARE SYMBOL, ACCESS CONTROL	TC / A	DOOR TYPE, DOOR RATING, HARDWARE SYMBOL
A / A1.1	ELEV. MARK, SHEET NUMBER	1 / A1.1	SECT. MARK, SHEET NUMBER
5 / A5.1	ELEV. MARK, SHEET NUMBER, INT. ELEVATION	1	EXTERIOR WINDOW/ STOREFRONT
	NEW DOOR AND SWING	A	INTERIOR WINDOW
	AREA OF CONCRETE	GR	GUARDRAILING
FE	SURFACE MOUNT FIRE EXTINGUISHER	A200	ROOM NUMBER
F.D.	FLOOR DRAIN	EWC	ELECTRIC WATER COOLER
CJ	CONTROL JOINT	DS	DOWNSPOUT
		FEC	RECESSED FIRE EXTINGUISHER CABINET WITH EXTINGUISHER

DOOR PLACEMENT LEGEND



FLUSH FRAME

OFFSET FRAME

CENTERED FRAME

LATHAN ARCHITECTS

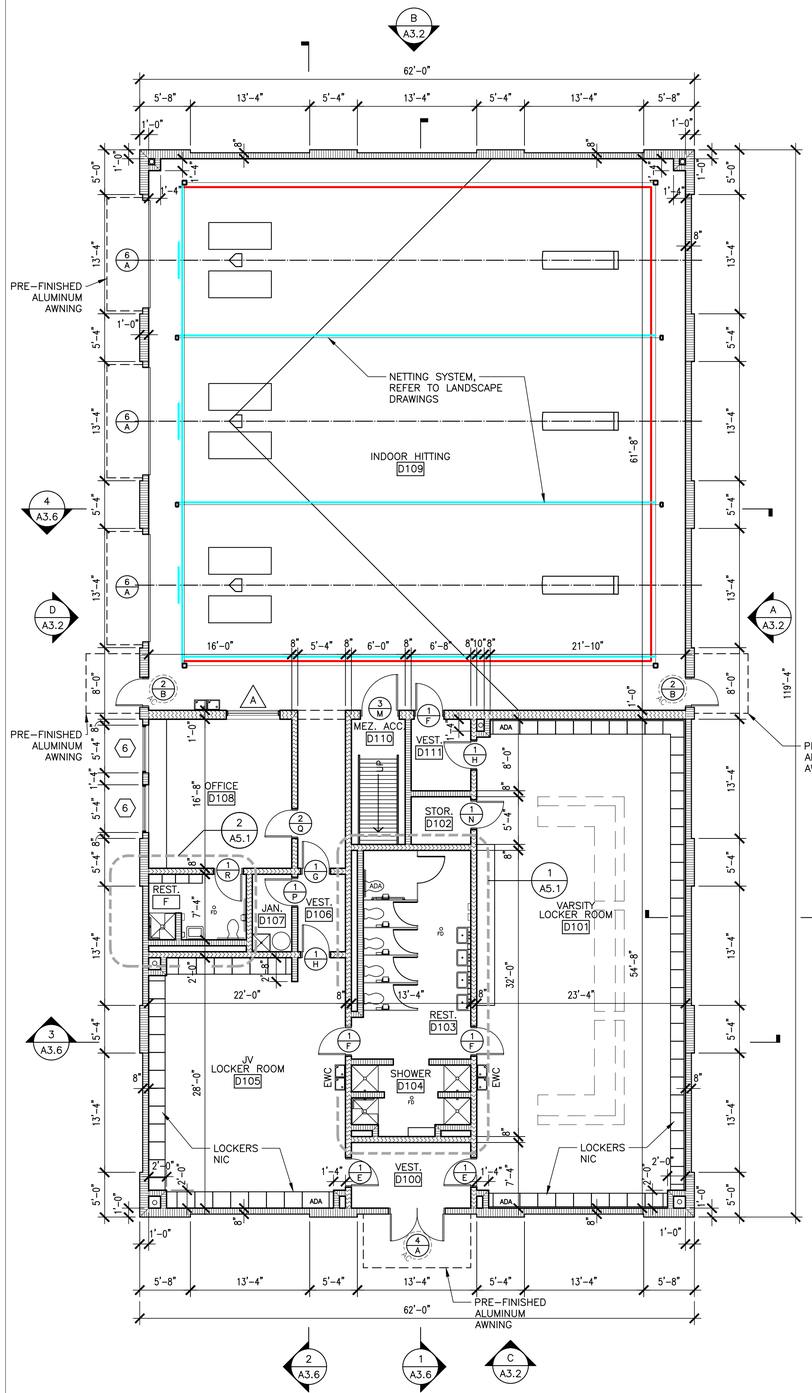
NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

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

SHEET TITLE:
DUGOUT FLOOR PLANS AND DETAILS

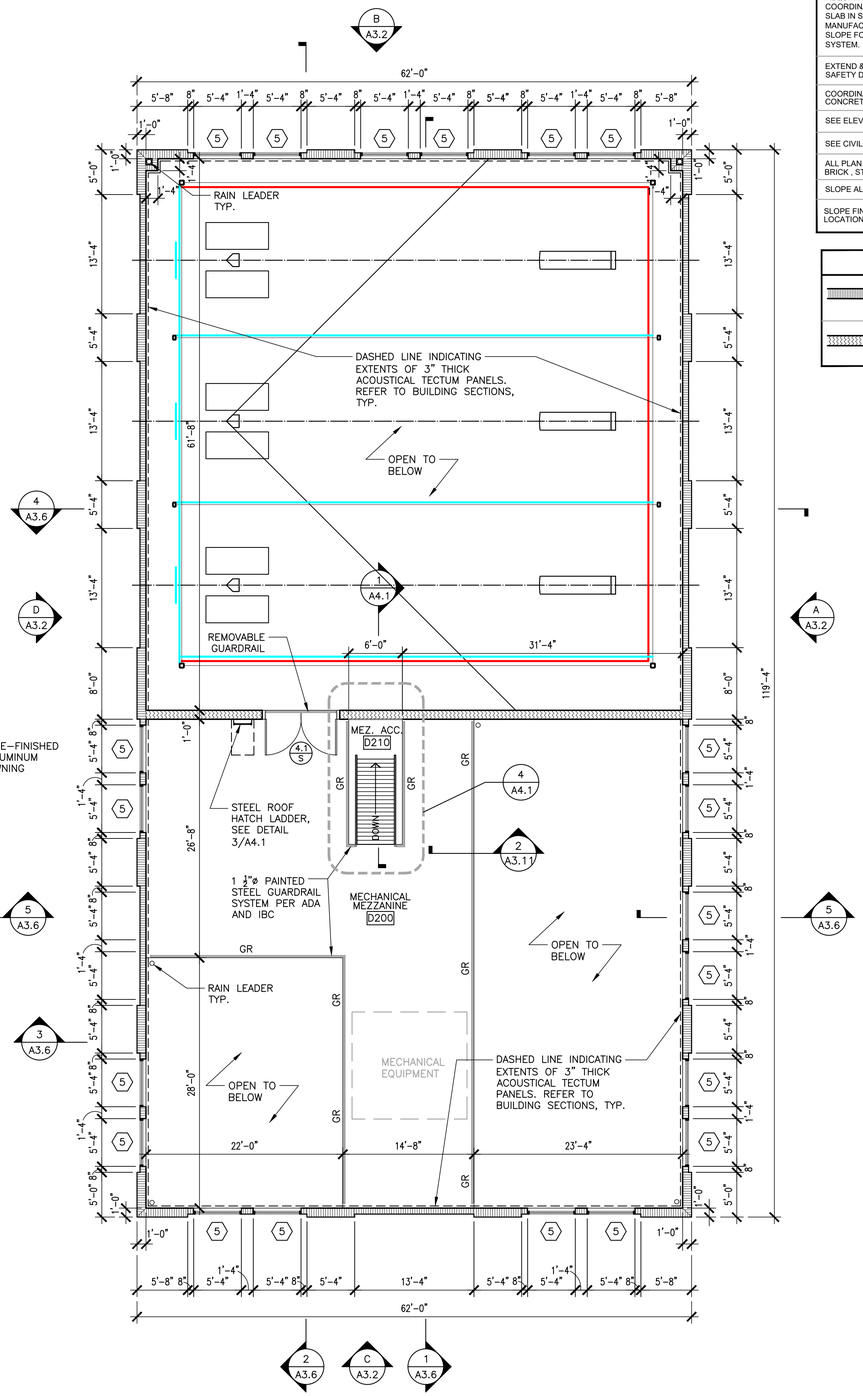
PROJ. MGR.: R.VERNON
DRAWN: TSS
hdr
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
A2.2
4 OF 33



1 LOWER LEVEL LOCKER ROOM/ HITTING FACILITY PLAN

1/8" = 1'-0"



2 MECHANICAL MEZZANINE LOCKER ROOM/ HITTING FACILITY PLAN

1/8" = 1'-0"

GENERAL NOTES

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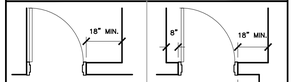
SOUND ATTENUATION PARTITION	8" OR 12" CONCRETE MASONRY WALL WITH SOUND ATTENUATION

SYMBOLS LEGEND

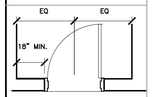
TC / A — DOOR TYPE, DOOR RATING, HARDWARE SYMBOL, ACCESS CONTROL		TC / A — DOOR TYPE, DOOR RATING, HARDWARE SYMBOL	
A / A1.1 — ELEV. MARK, SHEET NUMBER		1 / A1.1 — SECT. MARK, SHEET NUMBER	
5 / A5.1 — ELEV. MARK, SHEET NUMBER, INT. ELEVATION		1 — EXTERIOR WINDOW/ STOREFRONT	
NEW DOOR AND SWING		A — INTERIOR WINDOW	
AREA OF CONCRETE		GR — GUARDRAILING	
FE — SURFACE MOUNT FIRE EXTINGUISHER		A200 — ROOM NUMBER	
F.D. — FLOOR DRAIN		EWC — ELECTRIC WATER COOLER	
CJ — CONTROL JOINT		DS — DOWNSPOUT	
		FEC — RECESSED FIRE EXTINGUISHER CABINET WITH EXTINGUISHER	

DOOR PLACEMENT LEGEND

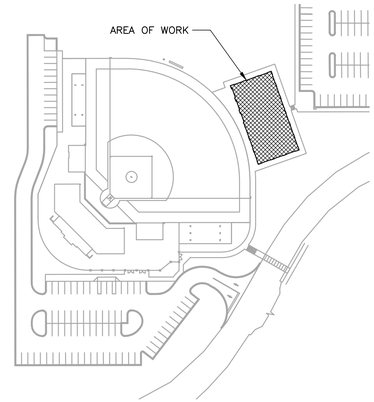


FLUSH FRAME

OFFSET FRAME



CENTERED FRAME



KEY PLAN

NTS

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
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6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

STATE OF ALABAMA
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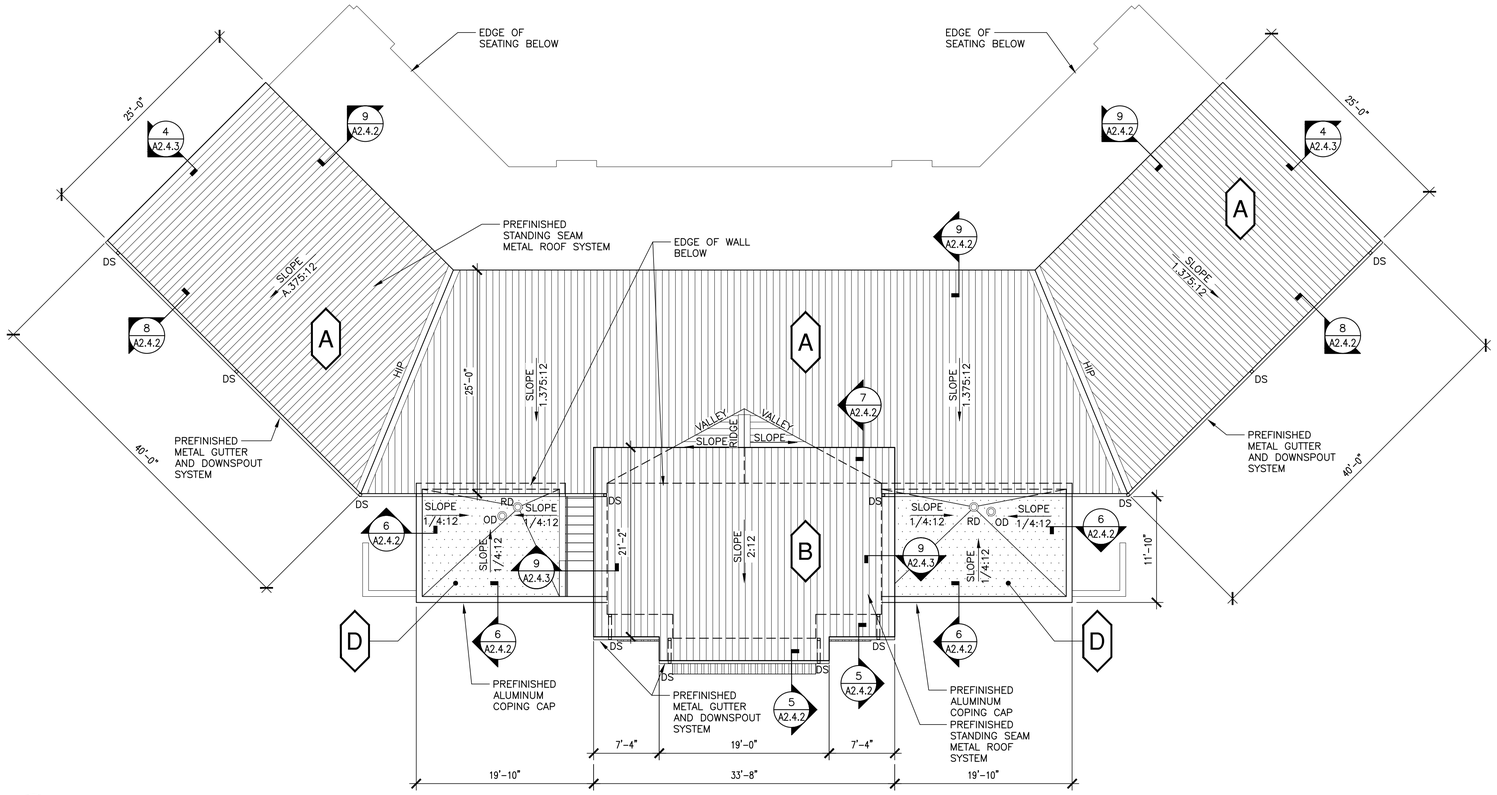
RICK N. LATHAN
REGISTERED ARCHITECT

SHEET TITLE:
LOCKER ROOM / HITTING FACILITY FLOOR PLANS

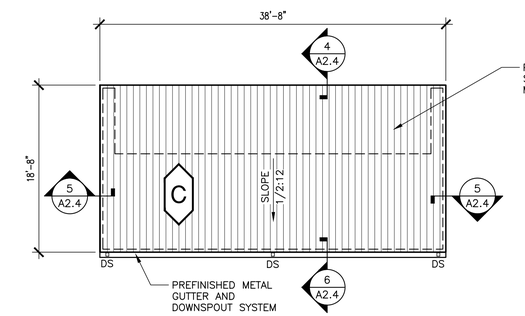
PROJ. MGR.: R.VERNON
DRAWN: TSS
hdr
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
A2.3
5 OF 33



1 PRESS BOX / BLEACHER ROOF PLAN

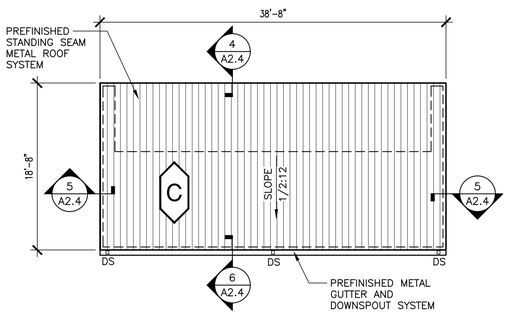
1/8" = 1'-0"



NOTE: PROVIDE BAFFLE AT LOCATIONS WHERE DOWNSPOUT EXITS NEAR SIDEWALK

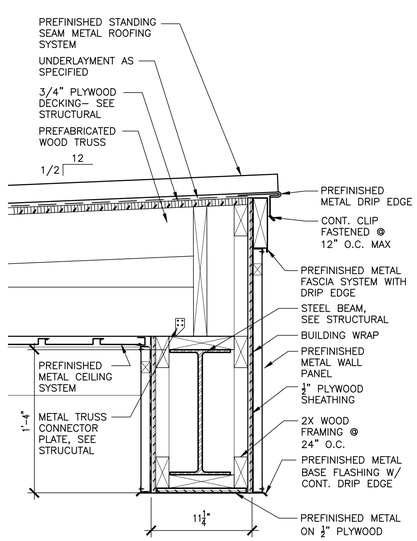
2 VISITOR DUGOUT ROOF PLAN

1/8" = 1'-0"



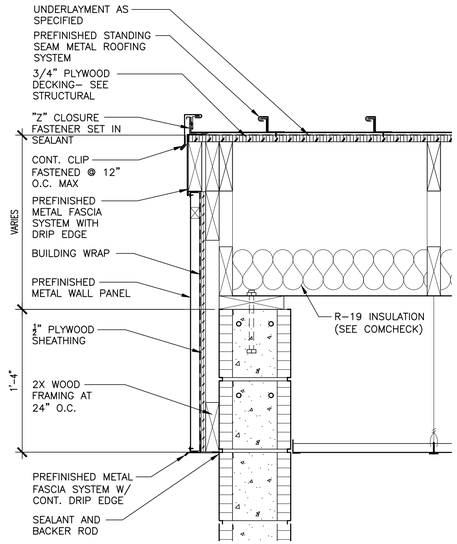
3 HOME DUGOUT ROOF PLAN

1/8" = 1'-0"



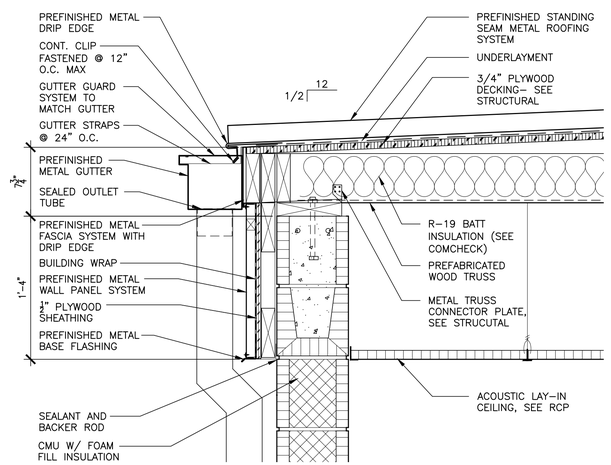
4 ROOF DETAIL

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



5 ROOF DETAIL

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



6 ROOF DETAIL

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

ROOF LEGEND

DETAIL NUMBER / SHEET NUMBER — ROOF DETAIL MARKER	DIRECTION OF DOWNWARD SLOPE / 1/4:12 / RISE:RUN — ROOF SLOPE MARKER
A — AREA OF WORK	
PREFINISHED STANDING SEAM METAL ROOFING SYSTEM	TPO ROOF SYSTEM

DS	DOWNSPOUT	N.I.C.	NOT IN CONTRACT
VS	VENT STACK	RD	ROOF DRAIN
RTU	ROOF TOP UNIT	EF	EXHAUST FAN
PP	PIPE PENETRATION	OD	OVERFLOW DRAIN
EX	EXISTING	CI	CURB INFILL
G	GUTTER	SL	SLOPE
GR	GUARDRAIL	RH	ROOF HATCH
TYP	TYPICAL	SC	SCUPPER

A — NEW STANDING SEAM METAL ROOF SCOPE OF WORK

1. PROVIDE METAL 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 REGARLESS OF SLOPE AS INDICATED IN SPECIFICATIONS.
4. PROVIDE 1" POLYISO INSULATION AND FULLY ADHERE IN MANUFACTURER'S APPROVED SEALANT AS SPECIFIED.
5. PROVIDE STANDING SEAM ROOFING SYSTEM AS SPECIFIED AND INSTALL IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTERER'S RECOMMENDATIONS.
6. PROVIDE PREFINISHED METAL FLASHING AS REQUIRED.

B — NEW STANDING SEAM METAL ROOF SCOPE OF WORK

1. PROVIDE METAL 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 REGARLESS OF SLOPE AS INDICATED IN SPECIFICATIONS.
4. PROVIDE 5" POLYISO INSULATION AND FULLY ADHERE IN MANUFACTURER'S APPROVED SEALANT AS SPECIFIED.
5. PROVIDE STANDING SEAM ROOFING SYSTEM AS SPECIFIED AND INSTALL IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTERER'S RECOMMENDATIONS.
6. PROVIDE PREFINISHED METAL FLASHING AS REQUIRED.

C — NEW STANDING SEAM METAL ROOF SCOPE OF WORK

1. PROVIDE 3/4" PLYWOOD 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 REGARLESS OF SLOPE AS INDICATED IN SPECIFICATIONS.
4. PROVIDE MEMBRANE UNDERLAYMENT INSTALLED PER MANUFACTURER'S APPROVED GUIDELINES.
5. PROVIDE STANDING SEAM ROOFING SYSTEM AS SPECIFIED AND INSTALL IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTERER'S RECOMMENDATIONS.
6. PROVIDE PREFINISHED METAL FLASHING AS REQUIRED.

D — NEW TPO ROOF SCOPE OF WORK

1. PROVIDE POLYISOCYANURATE INSULATION SYSTEM WITH 1 1/2" MINIMUM START FULLY ADHERED IN MANUFACTURER'S RECOMMENDED SEALANT AS SPECIFIED.
2. PROVIDE COVER BOARD FULLY ADHERED IN MANUFACTURER'S APPROVED SEALANT AS SPECIFIED.
3. PROVIDE ICE AND WATER SHIELD ALONG PARAPET WALLS AS INDICATED IN SPECIFICATIONS.
4. PROVIDE TPO ROOFING SYSTEM AS SPECIFIED. INSTALL IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
5. PROVIDE FLASHING AS REQUIRED AT ALL MECHANICAL, PLUMBING, AND ELECTRICAL PENETRATIONS WHETHER INDICATED OR NOT. MAKE ALL PENETRATIONS WEATHER TIGHT COORDINATE WITH ENGINEERING.
6. PROVIDE PREFINISHED SHEET METAL AND FLASHING COMPONENTS INCLUDING: EDGE METAL, PIPE FLASHING, EAVE DRIPS, COPING CAPS, REGLET FLASHING, ETC.

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

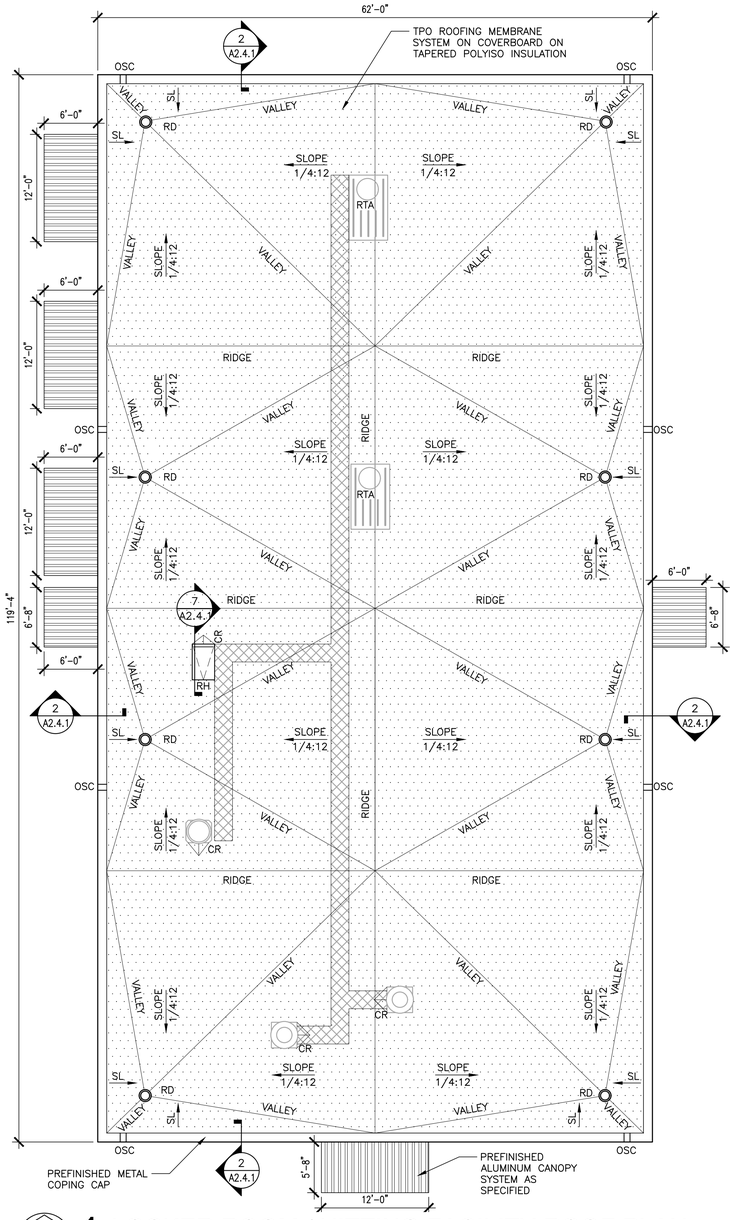
STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

SHEET TITLE:
BLEACHER / DUGOUT ROOF PLANS

PROJ. MGR.: R.VERNON
DRAWN: K. RENTA
hdr
DATE: MARCH 13, 2024
REVISIONS

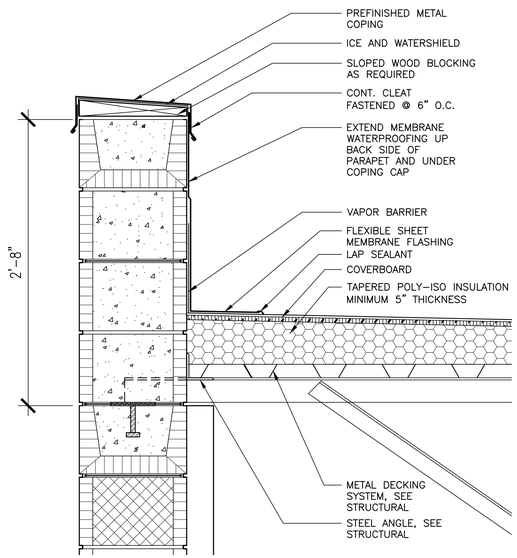
JOB NO. 23-72
SHEET NO:
A2.4
6 OF 33

0 1" 2"



1 LOCKER ROOM / HITTING FACILITY ROOF PLAN

1/8" = 1'-0"



2 ROOF DETAIL

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

ROOF LEGEND

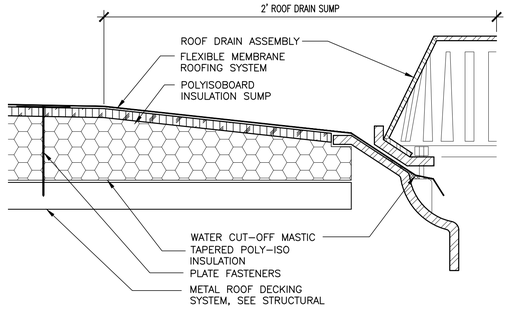
DS	DOWNSPOUT	N.I.C.	NOT IN CONTRACT
VS	VENT STACK	EJ	EXPANSION JOINT
RTU	ROOF TOP UNIT	EF	EXHAUST FAN
PP	PIPE PENETRATION	SP	SPLASH PAN
EX	EXISTING	CI	CURB INFILL
G	GUTTER	SL	SLOPE
GR	GUARDRAIL	RH	ROOF HATCH
TYP	TYPICAL	OSC	OVERFLOW SCUPPER
RD	ROOF DRAIN	CR	CRICKET

DETAIL NUMBER / SHEET NUMBER — ROOF DETAIL MARKER

DIRECTION OF DOWNWARD SLOPE — 1/4:12 — RISE:RUN — ROOF SLOPE MARKER

WALKWAY SYSTEM

TPO ROOF SYSTEM

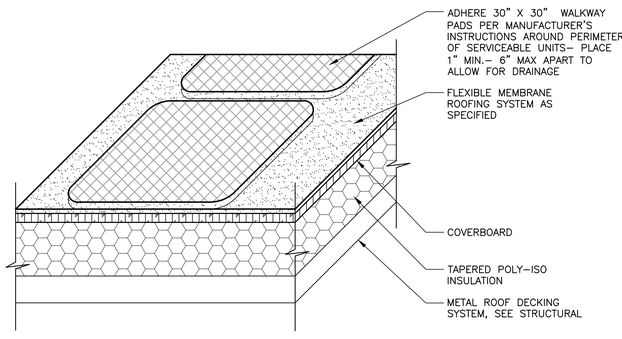


3 ROOF DRAIN DETAIL

3" = 1'-0"

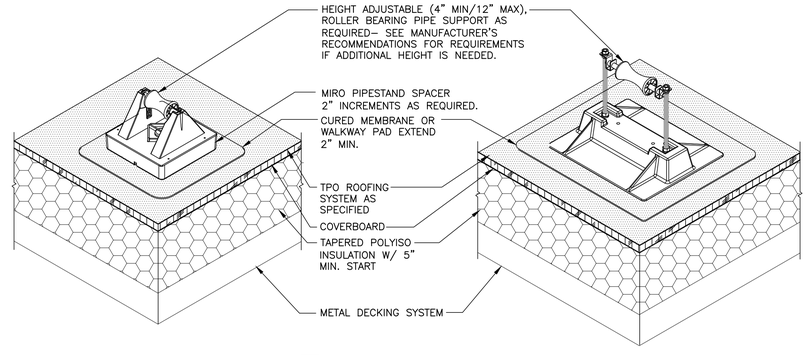
TPO ROOF SCOPE OF WORK

1. PROVIDE POLYISOCYANURATE INSULATION SYSTEM WITH 5" MINIMUM START FULLY ADHERED IN MANUFACTURER'S RECOMMENDED SEALANT AS SPECIFIED.
2. PROVIDE COVER BOARD FULLY ADHERED IN MANUFACTURER'S APPROVED SEALANT AS SPECIFIED.
3. PROVIDE ICE AND WATER SHIELD ALONG PARAPET WALLS AS INDICATED IN SPECIFICATIONS.
4. PROVIDE TPO ROOFING SYSTEM AS SPECIFIED. INSTALL IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
5. PROVIDE FLASHING AS REQUIRED AT ALL MECHANICAL, PLUMBING, AND ELECTRICAL PENETRATIONS WHETHER INDICATED OR NOT. MAKE ALL PENETRATIONS WEATHER TIGHT COORDINATE WITH ENGINEERING.
6. PROVIDE PREFINISHED SHEET METAL AND FLASHING COMPONENTS INCLUDING: EDGE METAL, PIPE FLASHING, EAVE DRIPS, COPING CAPS, REGLET FLASHING, ETC.



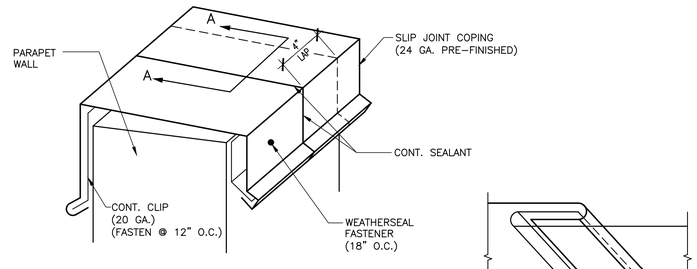
4 WALKWAY PAD DETAIL

3" = 1'-0"



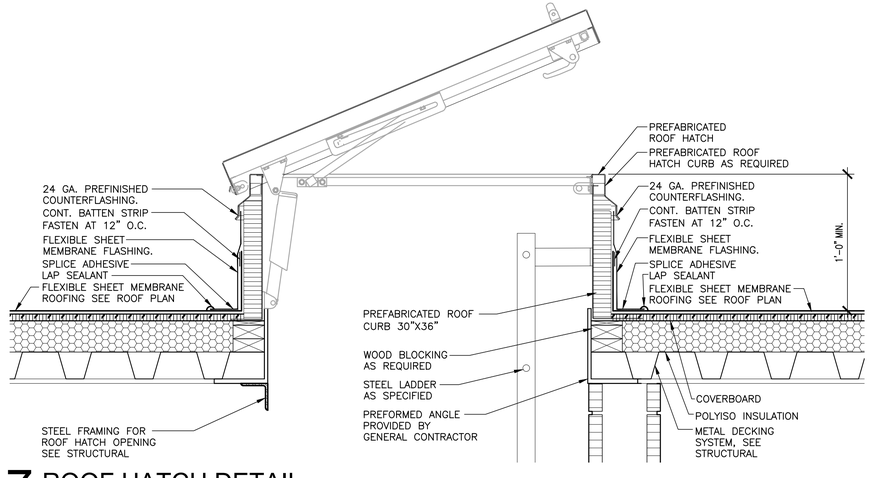
5 PIPE SUPPORT DETAIL

3" = 1'-0"



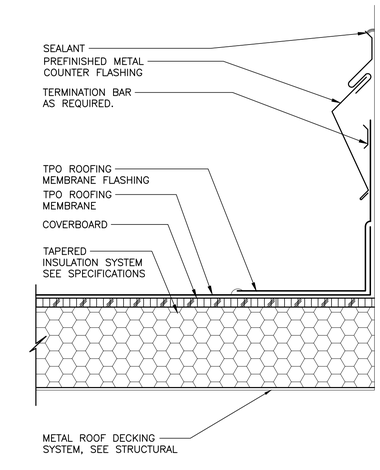
6 COPING CAPING DETAIL

3" = 1'-0"



7 ROOF HATCH DETAIL

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



8 FLASHING DETAIL

3" = 1'-0"

LATHAN ARCHITECTS

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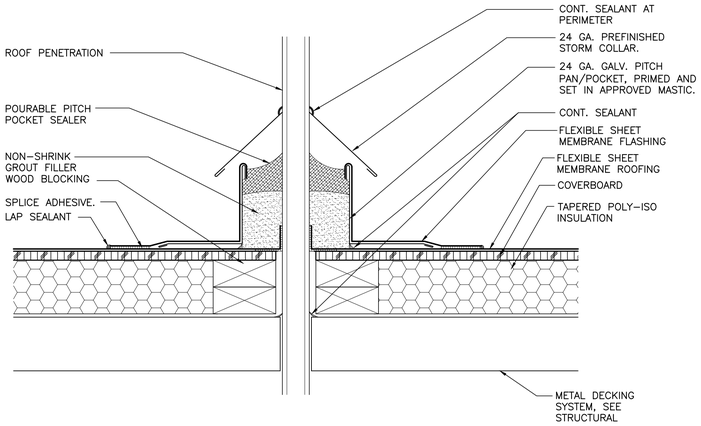
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

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

SHEET TITLE:
LOCKER ROOM / HITTING FACILITY ROOF PLAN AND DETAILS

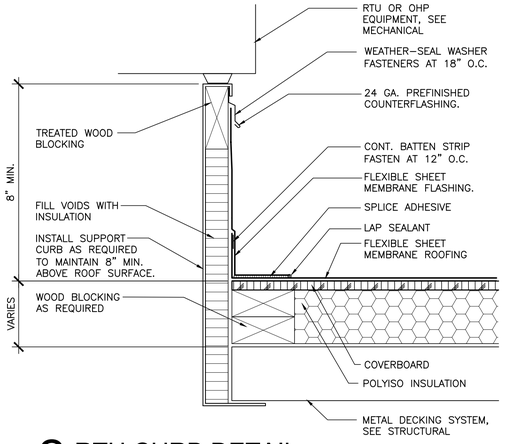
PROJ. MGR.: R.VERNON
DRAWN: K. RENTA
hdr
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
A2.4.1
7 OF 33



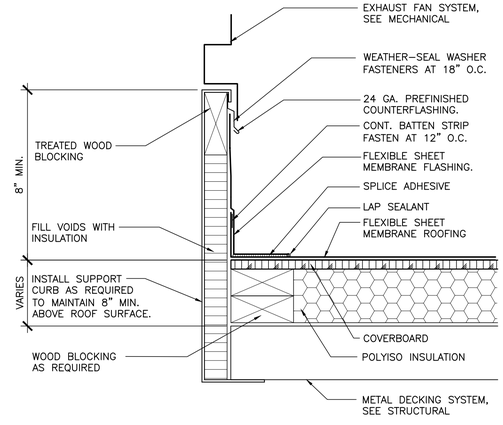
1 PITCH POCKET DETAIL

3" = 1'-0"



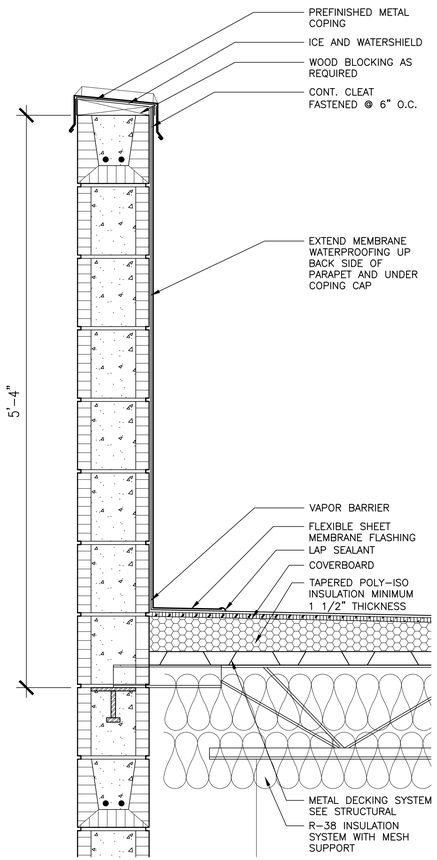
2 RTU CURB DETAIL

3" = 1'-0"



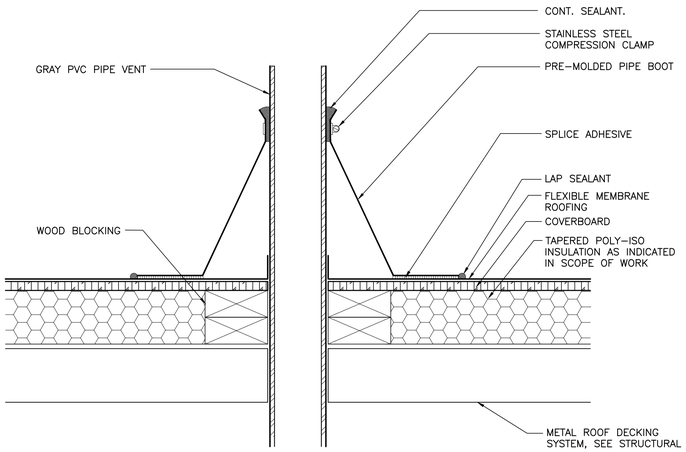
3 EXHAUST FAN DETAIL

3" = 1'-0"



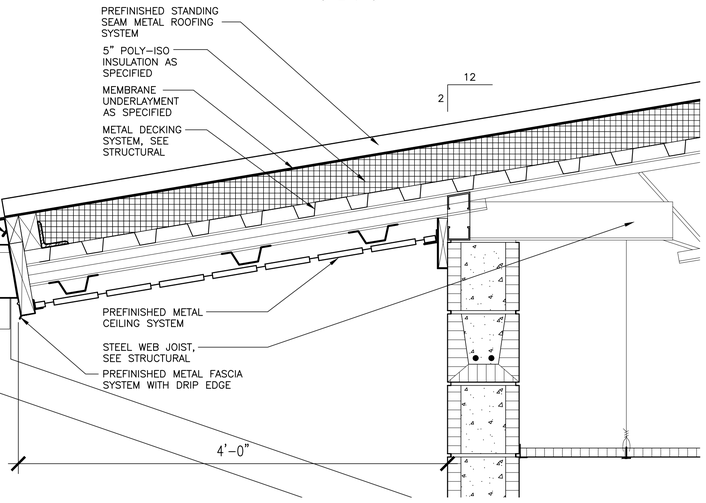
6 PARAPET DETAIL

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



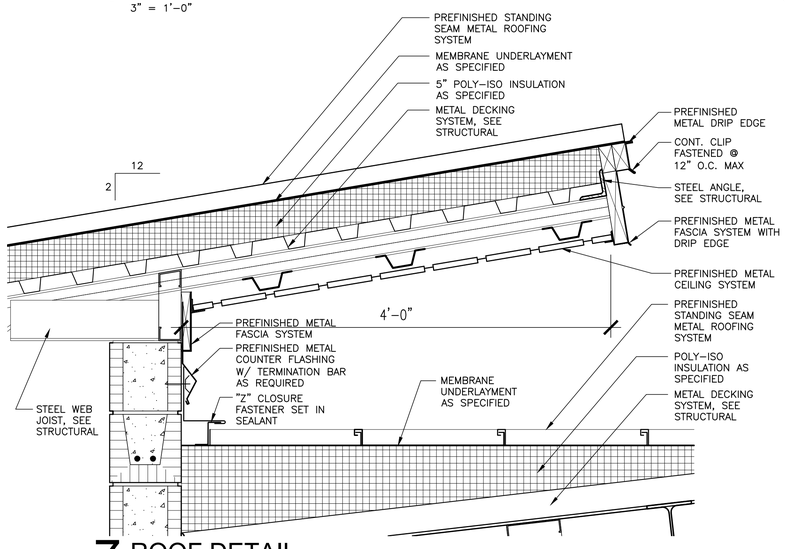
4 PLUMBING VENT DETAIL

3" = 1'-0"



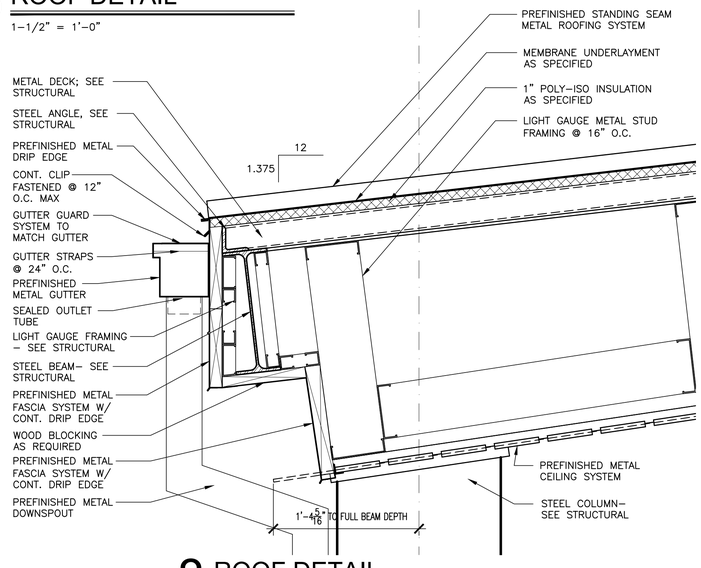
5 ROOF DETAIL

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



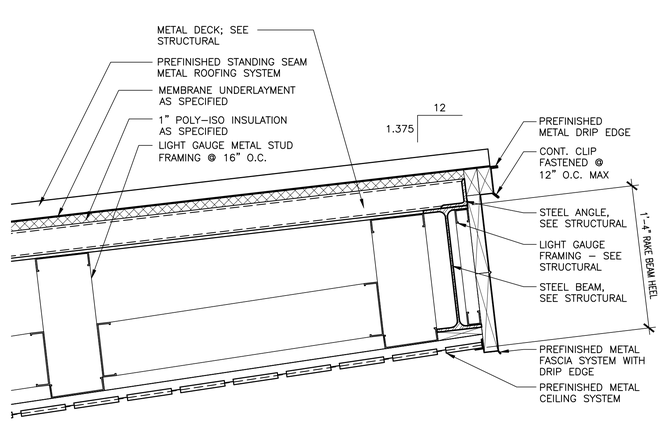
7 ROOF DETAIL

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



8 ROOF DETAIL

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



9 ROOF DETAIL

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

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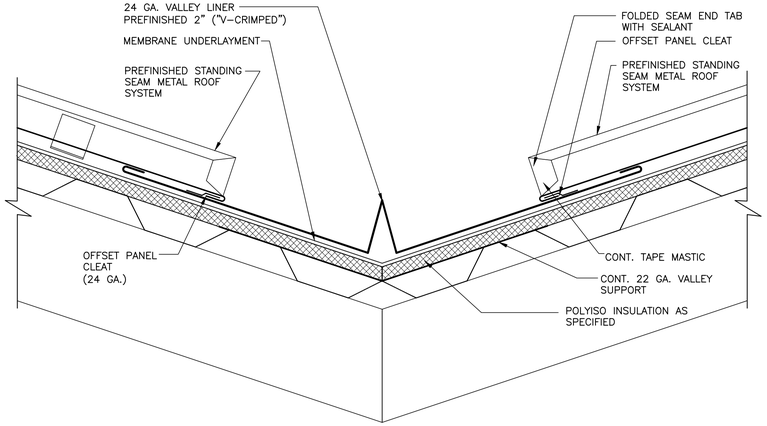
STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

SHEET TITLE:
ROOF DETAILS

PROJ. MGR.: R.VERNON
DRAWN: K. RENTA
hdr
DATE: MARCH 13, 2024
REVISIONS

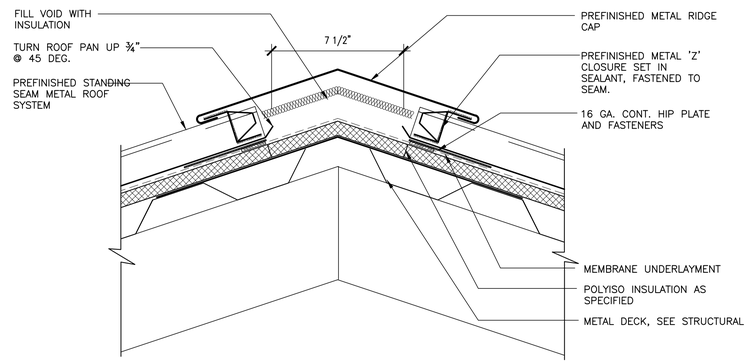
JOB NO. 23-72
SHEET NO:
A2.4.2
8 OF 33

0 1" 2"



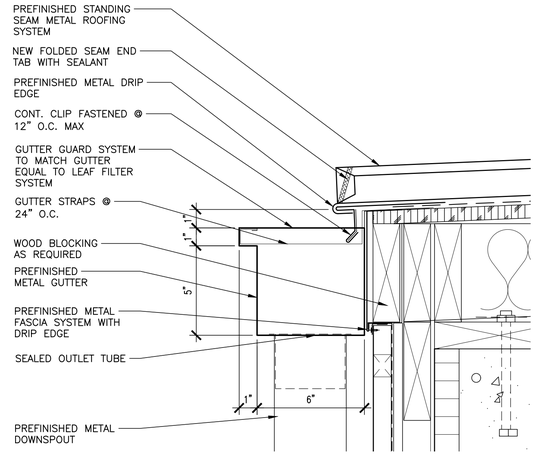
1 VALLEY FLASHING DETAIL

3" = 1'-0"



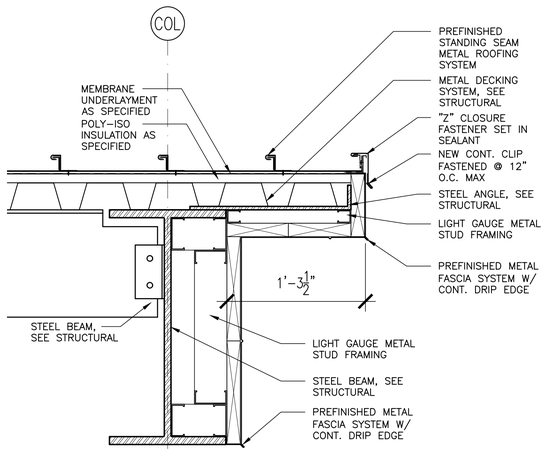
2 HIP/RIDGE FLASHING DETAIL

3" = 1'-0"



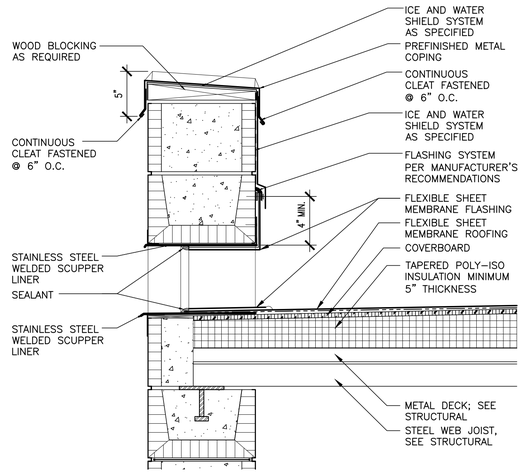
3 TYPICAL GUTTER DETAIL

3" = 1'-0"



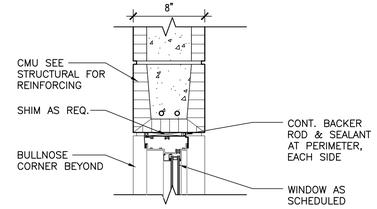
4 ROOF DETAIL

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



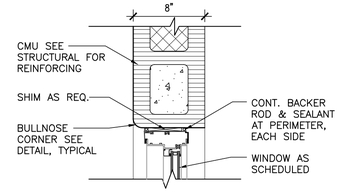
5 ROOF DETAIL

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



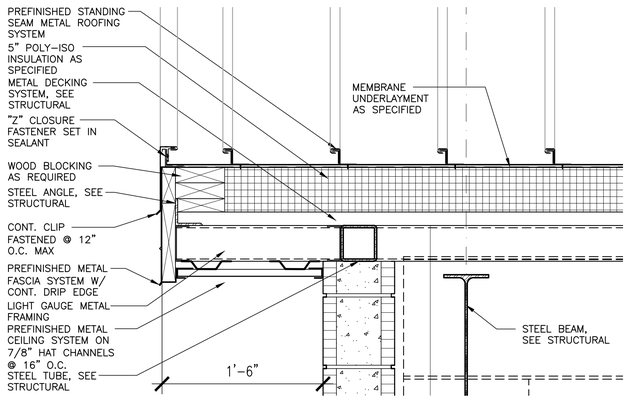
6 DETAIL @HEAD

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



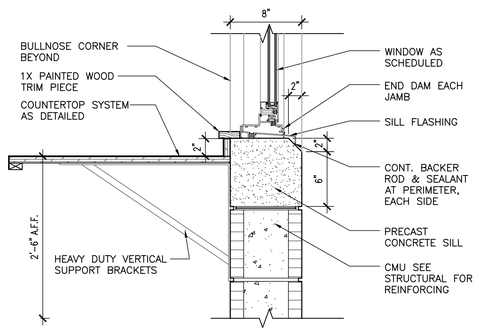
7 DETAIL @JAMB

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



9 ROOF DETAIL

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



8 DETAIL @SILL

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

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STATE OF ALABAMA
No. 3365
RICK N. LATHAN
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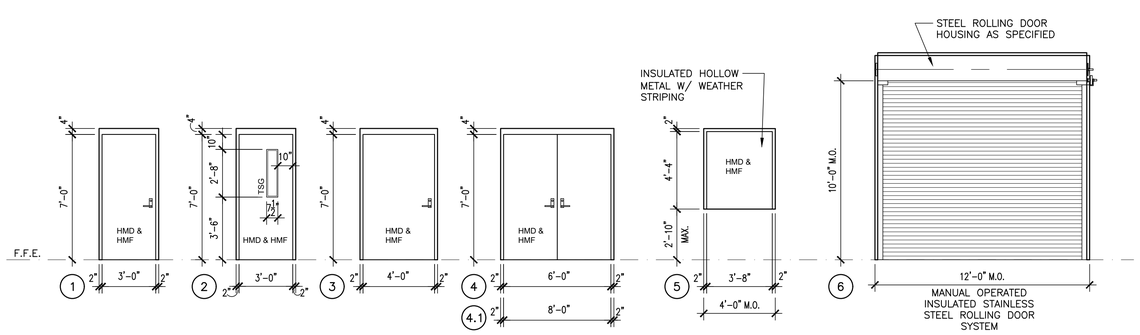
SHEET TITLE:
DETAILS

PROJ. MGR.: R.VERNON
DRAWN: K. RENTA
hdr
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
A2.4.3
9 OF 33

0 1" 2"

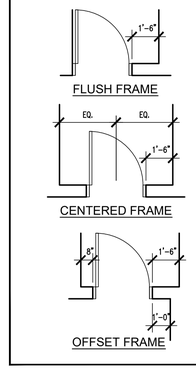


1 DOOR AND FRAME SCHEDULE

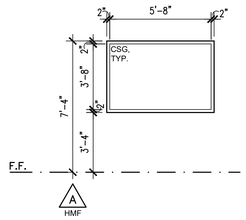
SCALE: 1/4" = 1'-0"

DOOR AND WINDOW LEGEND	
CSG	1/4" THICK CLEAR TEMPERED SAFETY GLASS.
TSG	1" TINTED INSULATED LOW-E TEMPERED SAFETY GLASS AS SPECIFIED.
SPSG	1" SPANDREL INSULATED TEMPERED SAFETY GLASS AS SPECIFIED.
HMD	HOLLOW METAL DOOR
HMF	HOLLOW METAL FRAME
ASF	PREFINISHED ALUMINUM STOREFRONT FRAME SYSTEM AS SPECIFIED.
AC	ACCESS CONTROL SYSTEM AS SPECIFIED SEE ALSO ELECT.

DOOR PLACEMENT LEGEND

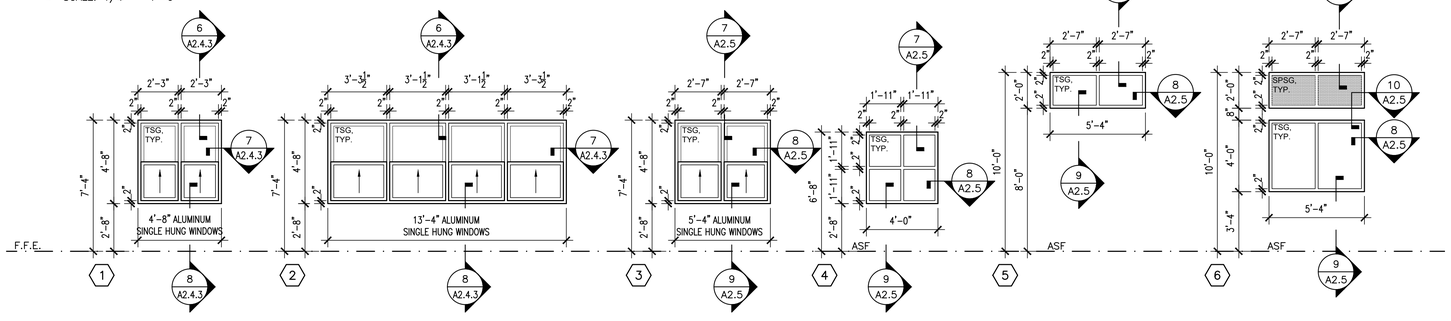


DOOR RATING LEGEND		
DOOR TYPE	(2)	NO RATING



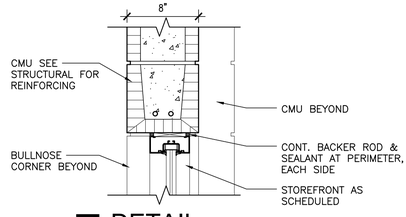
3 INTERIOR HOLLOW METAL VIEW WINDOW SCHEDULE

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



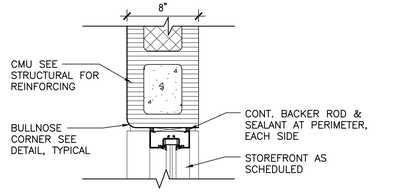
2 STOREFRONT SCHEDULE

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



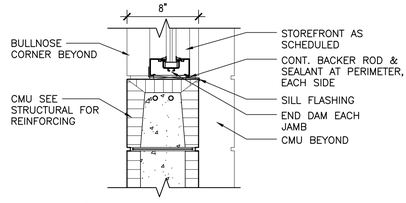
7 DETAIL@ HEAD

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



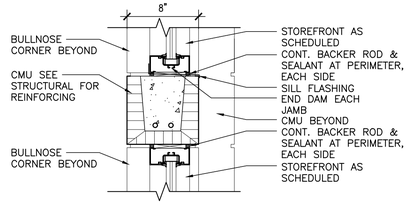
8 DETAIL@ JAMB

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



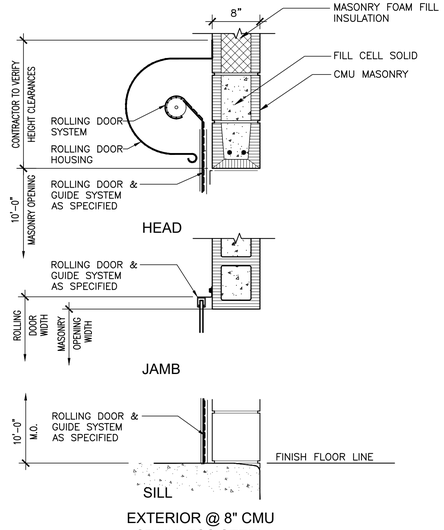
9 DETAIL@ SILL

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



10 DETAIL

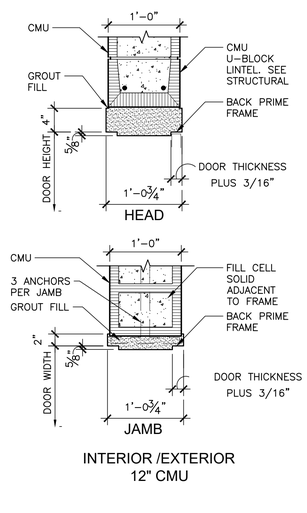
SCALE: 1 1/2" = 1'-0"



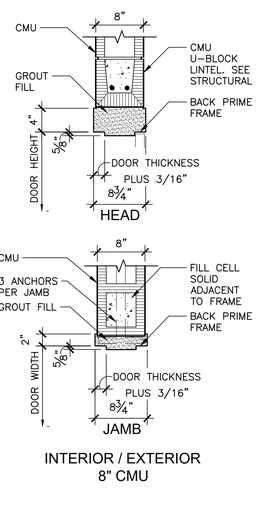
EXTERIOR @ 8" CMU
STAINLESS STEEL
COILING DOOR SYSTEM

4 EXTERIOR OVERHEAD ROLLING DOOR DETAIL

SCALE: 1" = 1'-0"



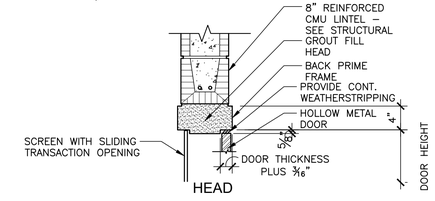
INTERIOR /EXTERIOR
12" CMU

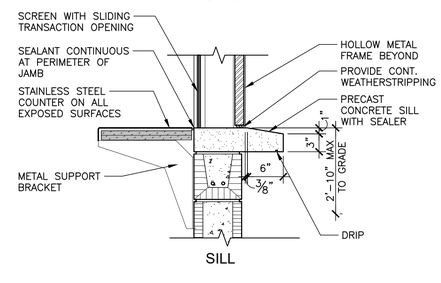


INTERIOR / EXTERIOR
8" CMU

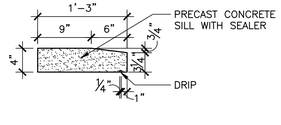
5 HOLLOW METAL FRAME DETAILS

SCALE: 1" = 1'-0"





GENERAL NOTE:
PROTECT PRECAST CONCRETE DURING CONSTRUCTION FROM CHIPPING OR STAINING/ DISCOLORATION. GC WILL BE RESPONSIBLE FOR REPLACING PRECAST IF EITHER CONDITION IF FOUND



6 CONCESSION DOOR DETAILS

SCALE: 1" = 1'-0"

LATHAN ARCHITECTS

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6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
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No. 3365
RICK N. LATHAN
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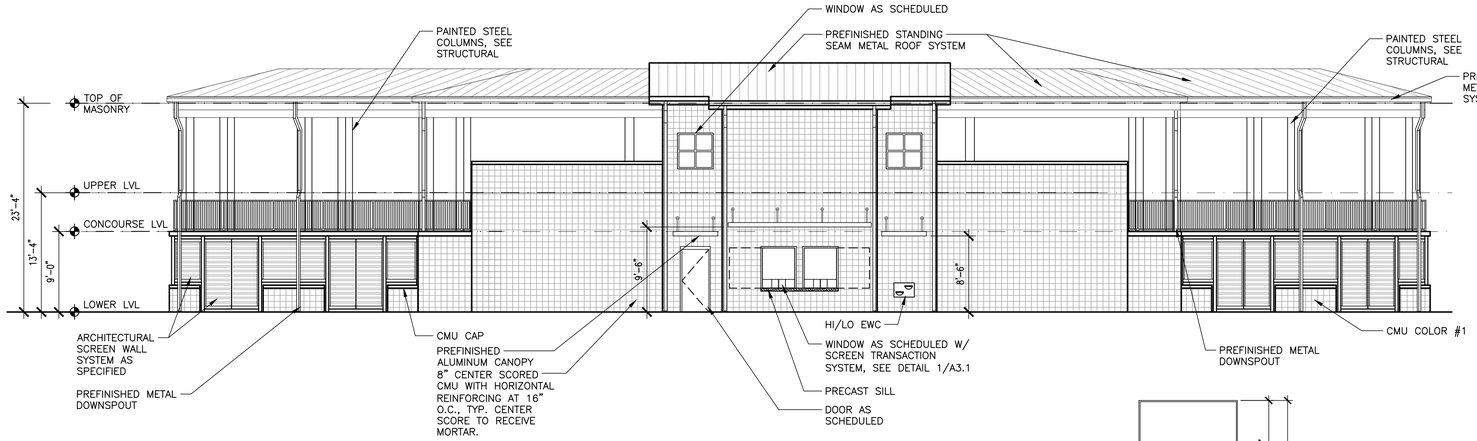
SHEET TITLE:
DOOR AND WINDOW SCHEDULES AND DETAILS

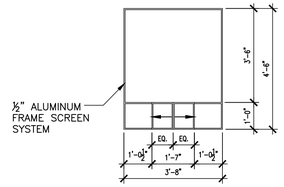
PROJ. MGR.: R.VERNON
DRAWN: TSS
hdr
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
A2.5
10 OF 33



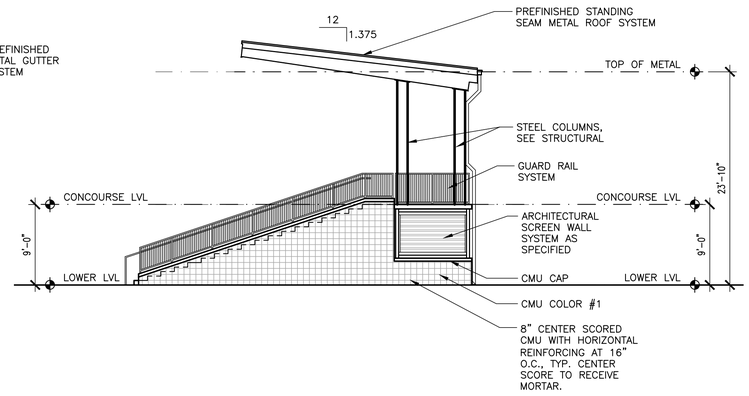
A CONCESSIONS/BLEACHER ELEVATION

1/8" = 1'-0"



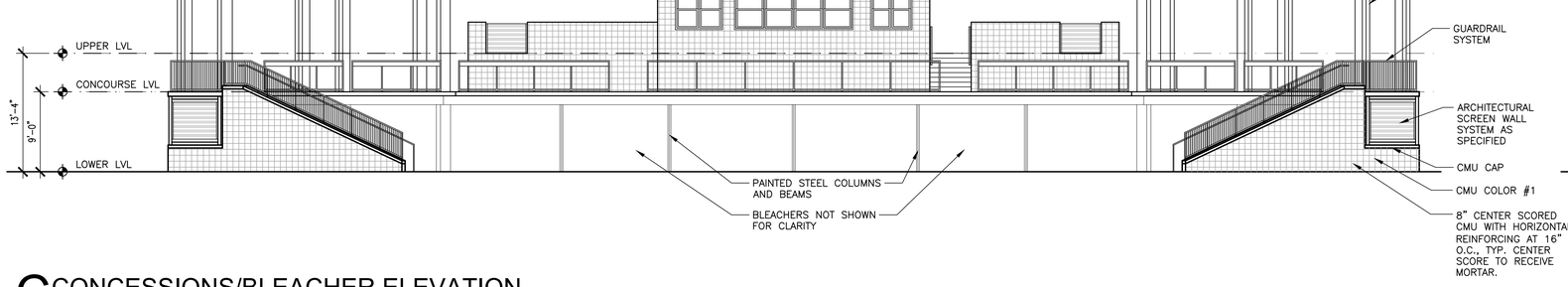
1 SCREEN DETAIL

3/8" = 1'-0"



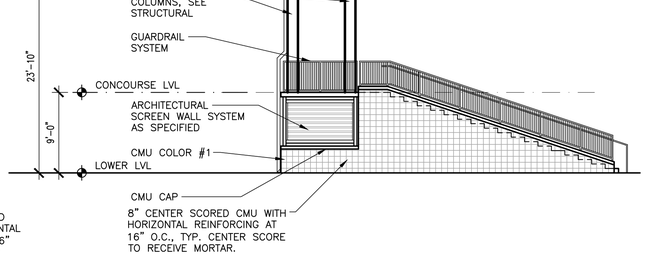
B CONCESSIONS/BLEACHER ELEVATION

1/8" = 1'-0"



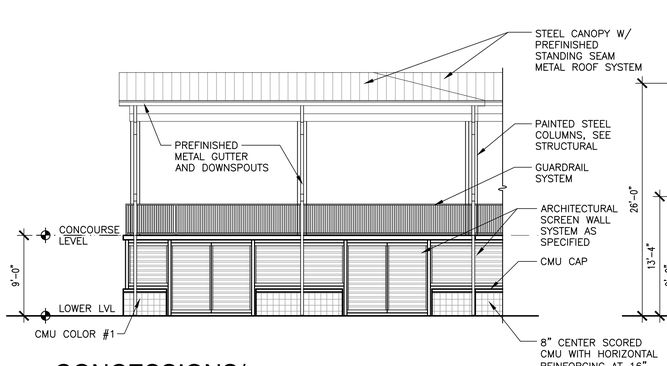
C CONCESSIONS/BLEACHER ELEVATION

1/8" = 1'-0"



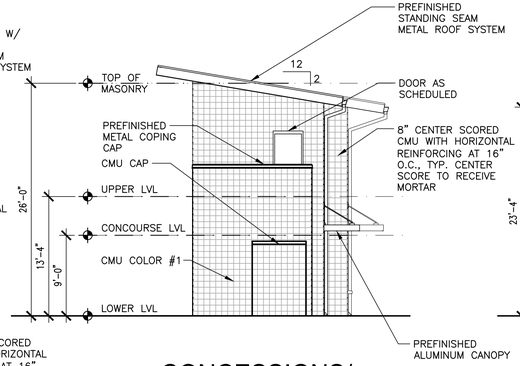
D CONCESSIONS/BLEACHER ELEVATION

1/8" = 1'-0"



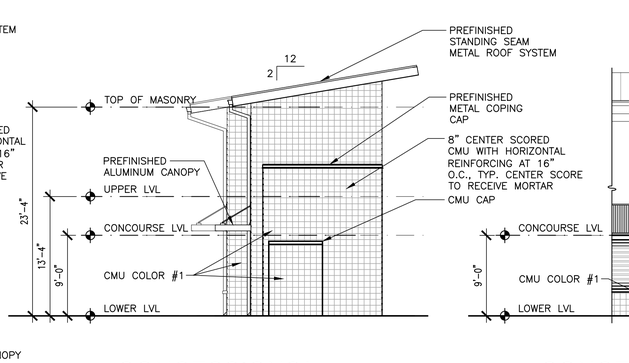
E CONCESSIONS/ BLEACHER ELEVATION

1/8" = 1'-0"



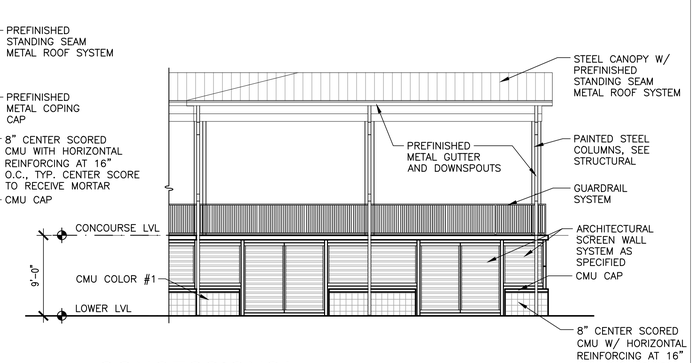
F CONCESSIONS/ BLEACHER ELEVATION

1/8" = 1'-0"



G CONCESSIONS/ BLEACHER ELEVATION

1/8" = 1'-0"



H CONCESSIONS/ BLEACHER ELEVATION

1/8" = 1'-0"

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

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

SHEET TITLE:
CONCESSIONS / BLEACHER ELEVATIONS

PROJ. MGR.: R.VERNON
DRAWN: TSS
hdr
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
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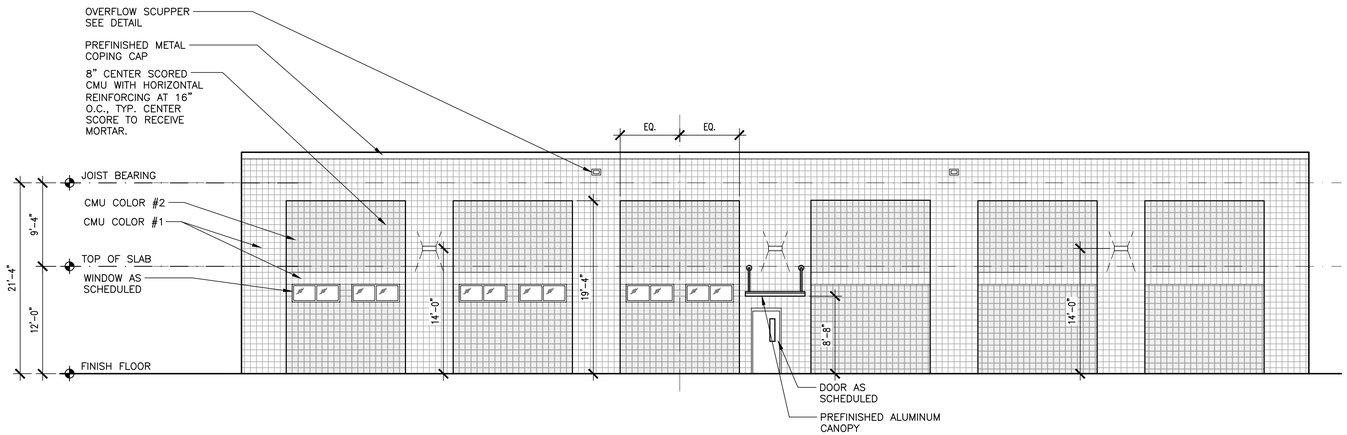
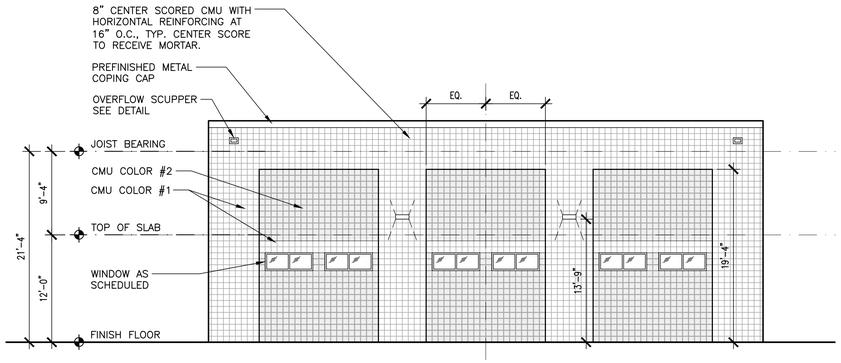
0 1" 2"



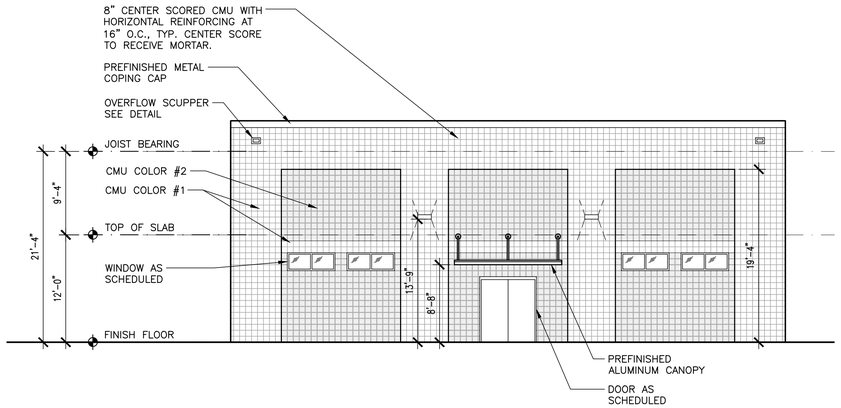
A LOCKER ROOM/HITTING FACILITY ELEVATION

1/8" = 1'-0"



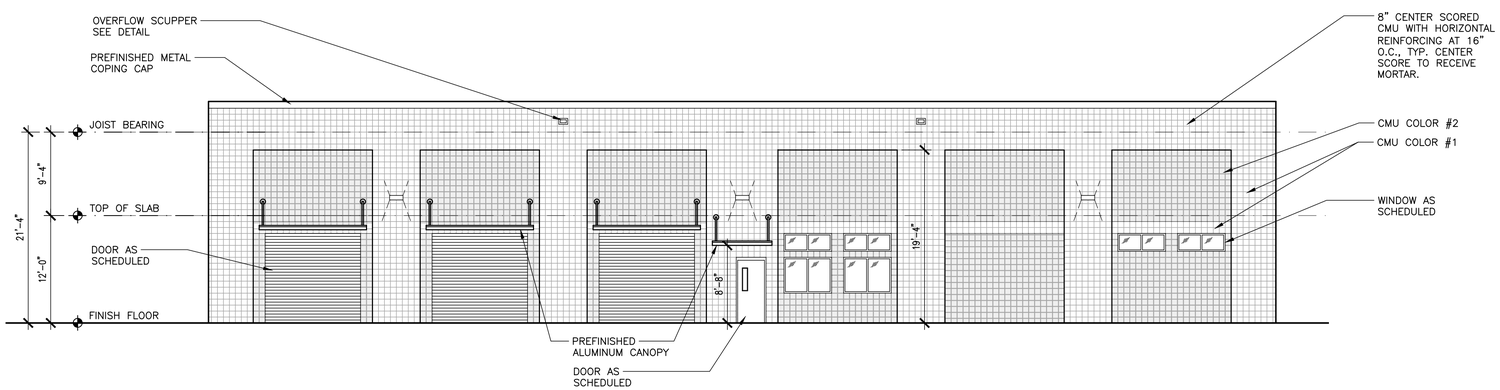
B LOCKER ROOM/HITTING FACILITY ELEVATION

1/8" = 1'-0"



C LOCKER ROOM/HITTING FACILITY ELEVATION

1/8" = 1'-0"



D LOCKER ROOM/HITTING FACILITY ELEVATION

1/8" = 1'-0"

LATHAN ARCHITECTS

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SHEET TITLE:
LOCKER ROOM / HITTING FACILITY ELEVATIONS

PROJ. MGR.: R.VERNON
DRAWN: TSS
hdr
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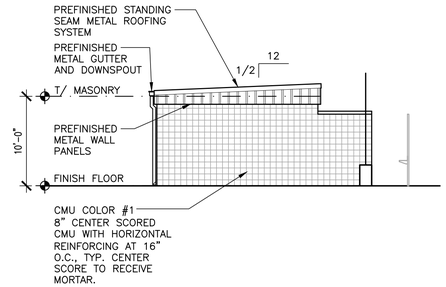
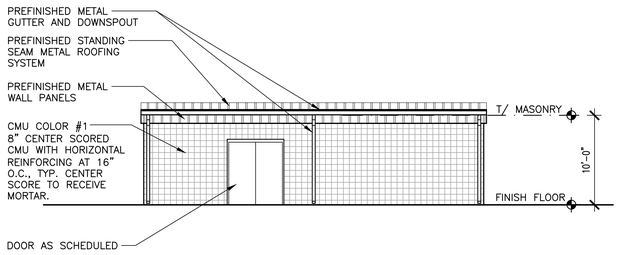
0 1" 2"



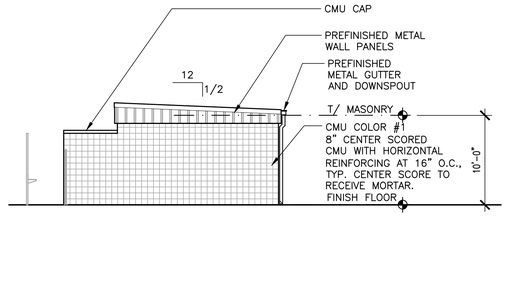
A VISITOR DUGOUT ELEVATION

1/8" = 1'-0"



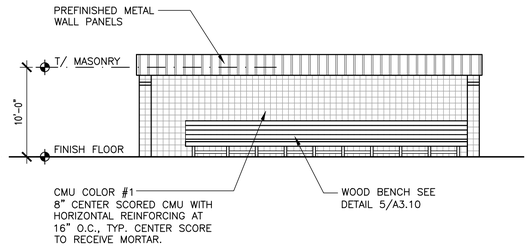
B VISITOR DUGOUT ELEVATION

1/8" = 1'-0"



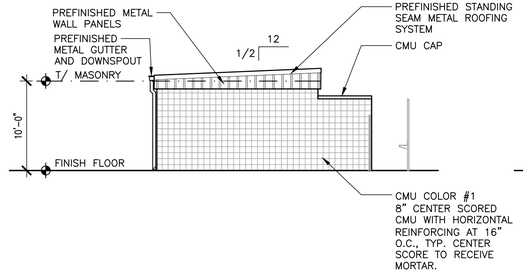
C VISITOR DUGOUT ELEVATION

1/8" = 1'-0"



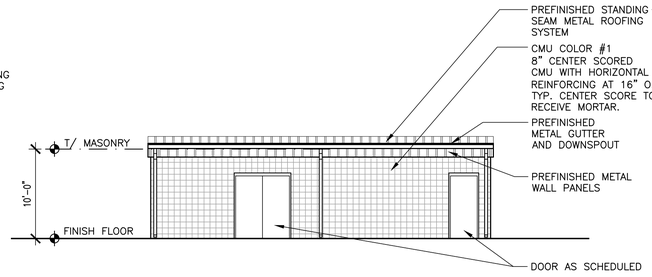
D VISITOR DUGOUT ELEVATION

1/8" = 1'-0"



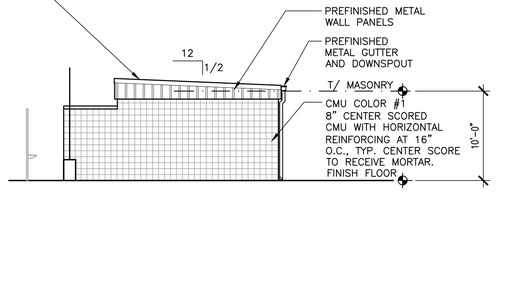
E HOME DUGOUT ELEVATION

1/8" = 1'-0"



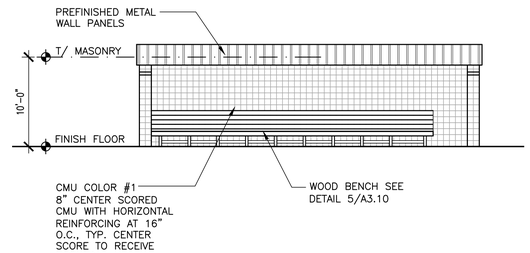
F HOME DUGOUT ELEVATION

1/8" = 1'-0"



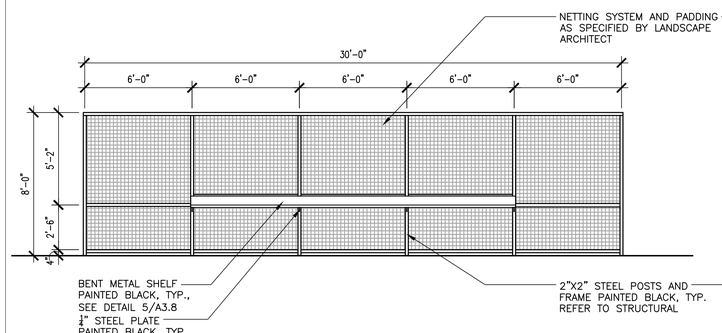
G HOME DUGOUT ELEVATION

1/8" = 1'-0"



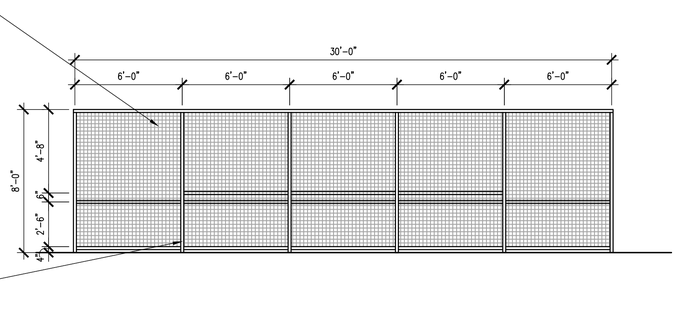
H HOME DUGOUT ELEVATION

1/8" = 1'-0"



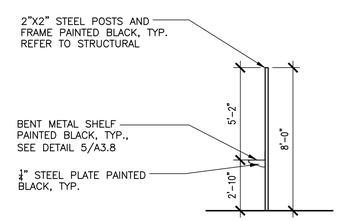
J ENLARGED DUGOUT NETTING ELEVATION

1/4" = 1'-0"



K ENLARGED DUGOUT NETTING ELEVATION

1/4" = 1'-0"



L ENLARGED DUGOUT NETTING ELEVATION

1/4" = 1'-0"

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
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6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

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

SHEET TITLE:
DUGOUT ELEVATIONS

PROJ. MGR.: R.VERNON
DRAWN: TSS
hdr
DATE: MARCH 13, 2024
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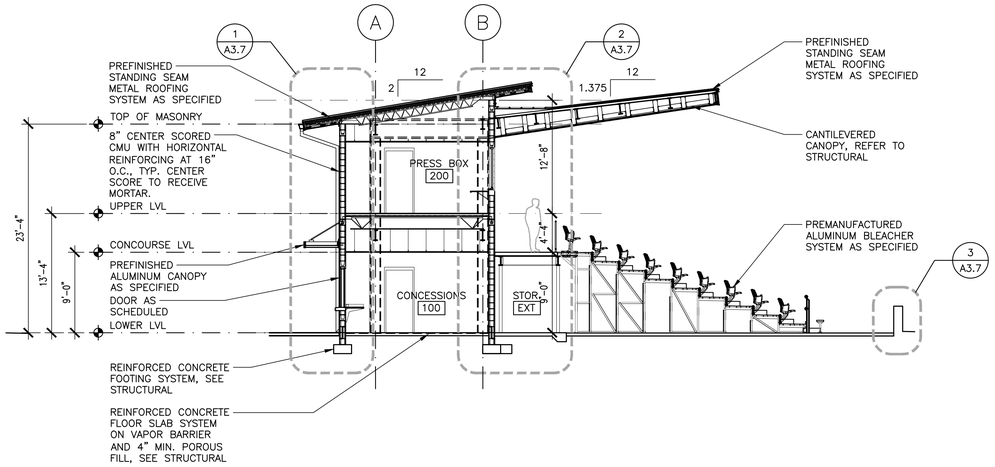
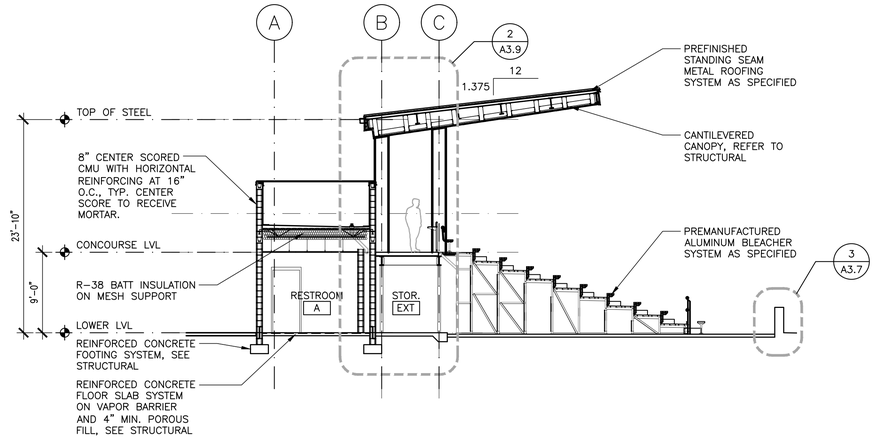
0 1" 2"



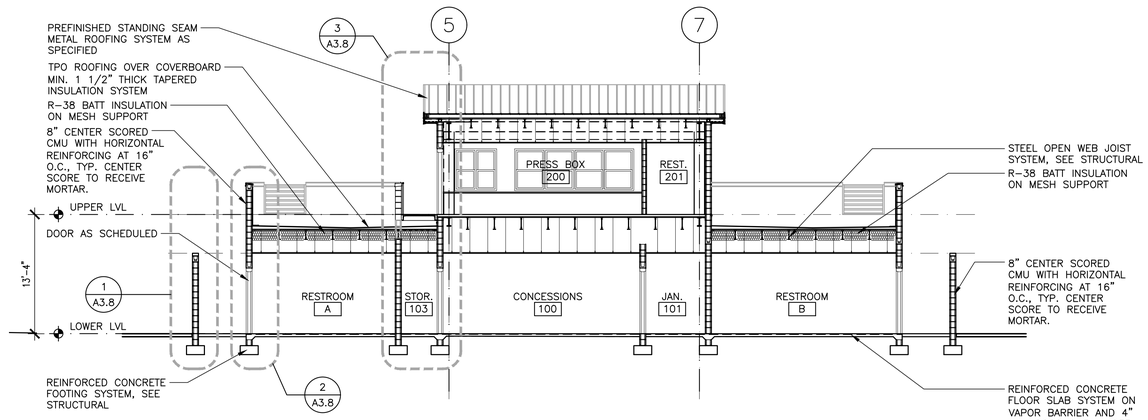
1 PRESS BOX / CONCESSIONS / BLEACHER SECTION

1/8" = 1'-0"



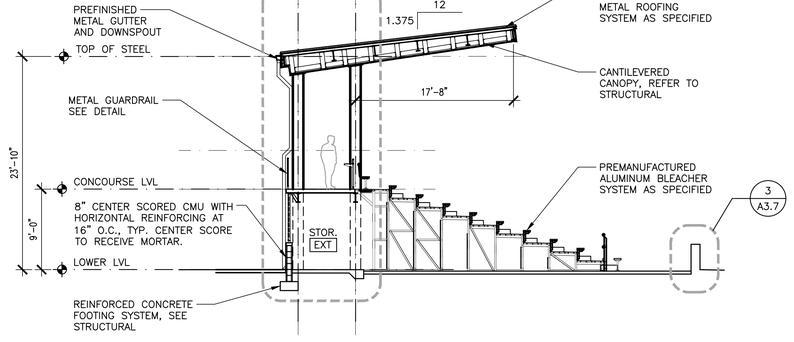
2 TOILETS / CONCOURSE / BLEACHER SECTION

1/8" = 1'-0"



3 PRESS BOX / CONCESSIONS / TOILETS SECTION

1/8" = 1'-0"



4 CONCOURSE / BLEACHER SECTION

1/8" = 1'-0"

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ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
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TRUSSVILLE CITY BOARD OF EDUCATION

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

SHEET TITLE:
BUILDING SECTIONS AND DETAILS

PROJ. MGR.:	R.VERNON
DRAWN:	TSS
	hdr
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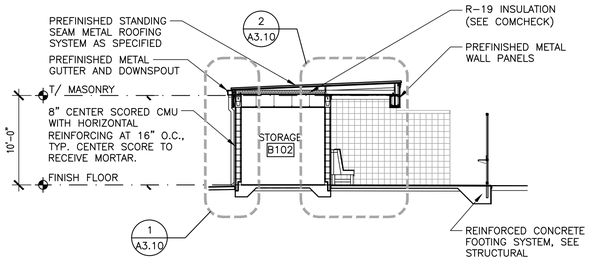
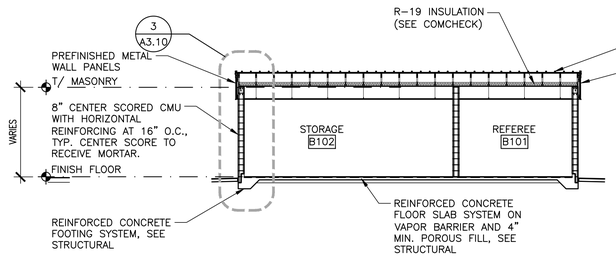
0 1" 2"



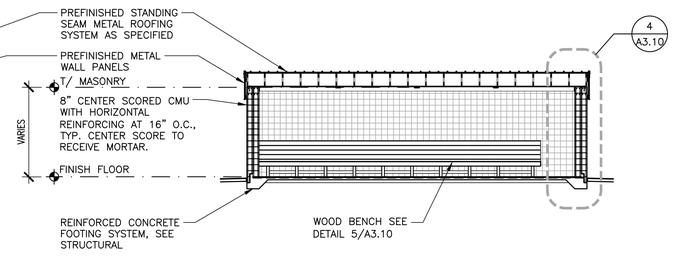
1 HOME DUGOUT SECTION

1/8" = 1'-0"



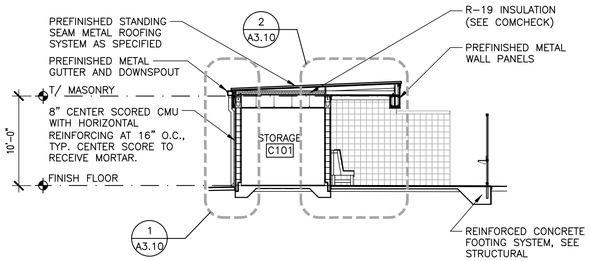
2 HOME DUGOUT SECTION

1/8" = 1'-0"



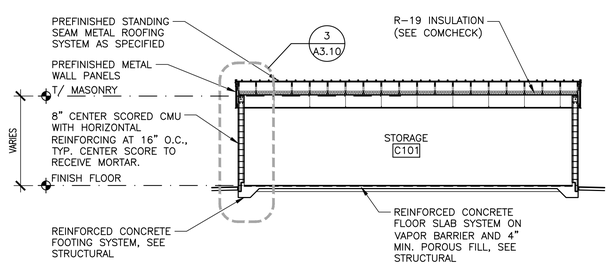
3 HOME DUGOUT SECTION

1/8" = 1'-0"



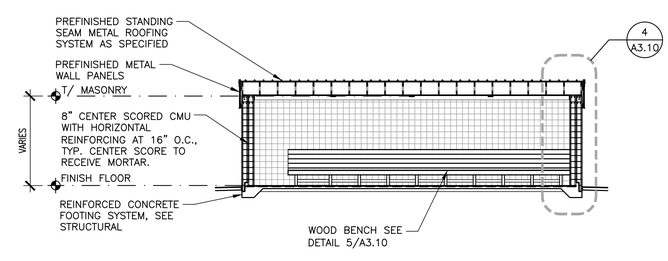
4 VISITOR DUGOUT SECTION

1/8" = 1'-0"



5 VISITOR DUGOUT SECTION

1/8" = 1'-0"



5 VISITOR DUGOUT SECTION

1/8" = 1'-0"

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

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No. 3365
RICK N. LATHAN
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SHEET TITLE:
BUILDING SECTIONS AND DETAILS

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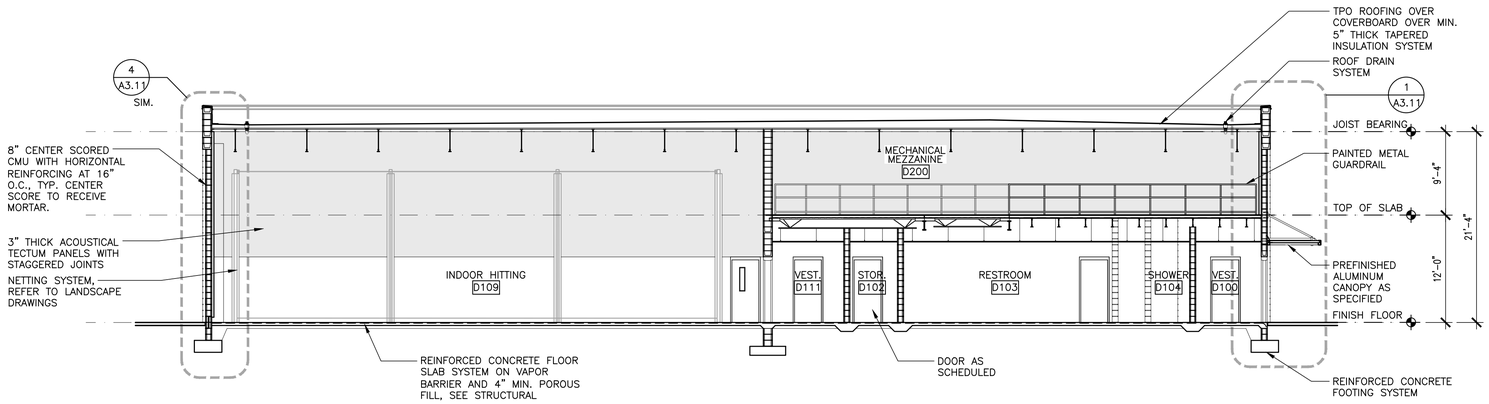
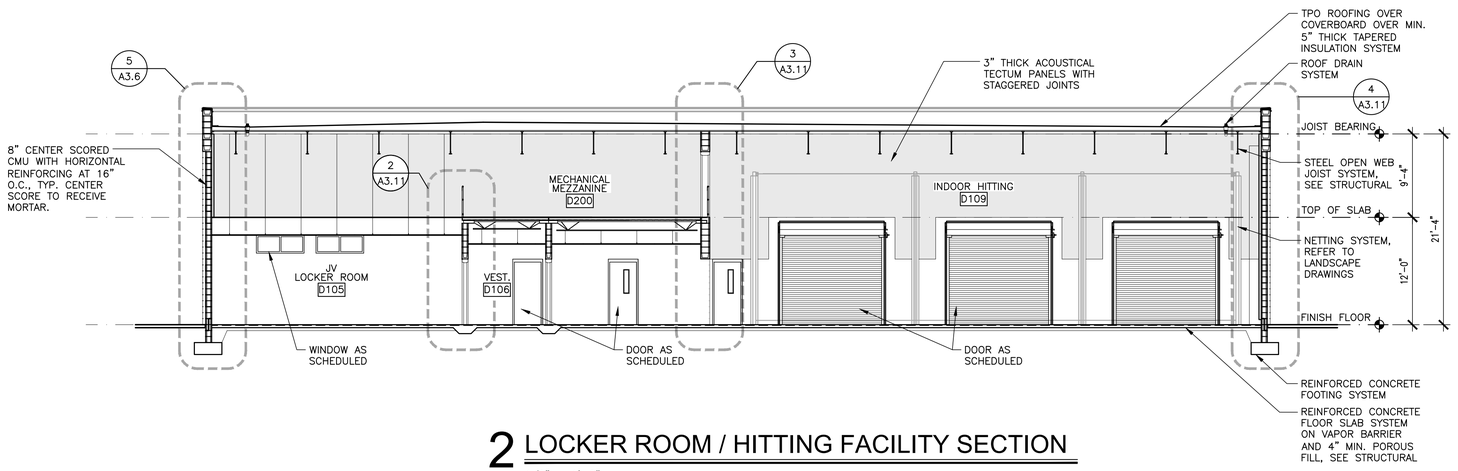
0 1" 2"



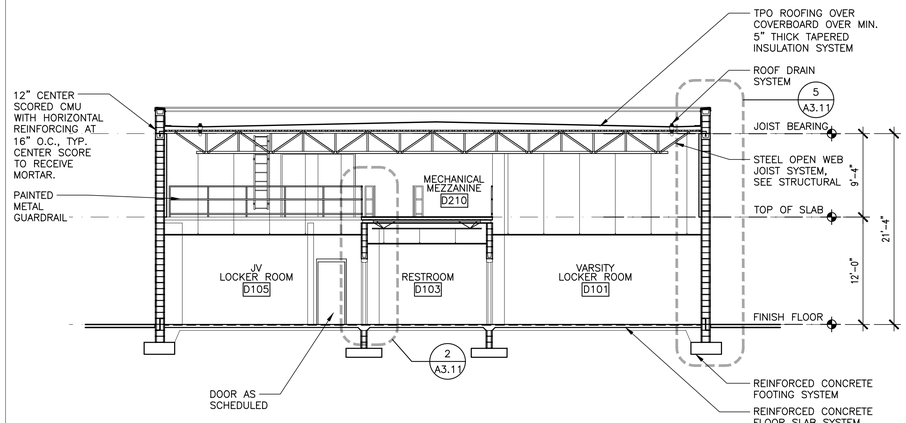
1 LOCKER ROOM / HITTING FACILITY SECTION

1/8" = 1'-0"



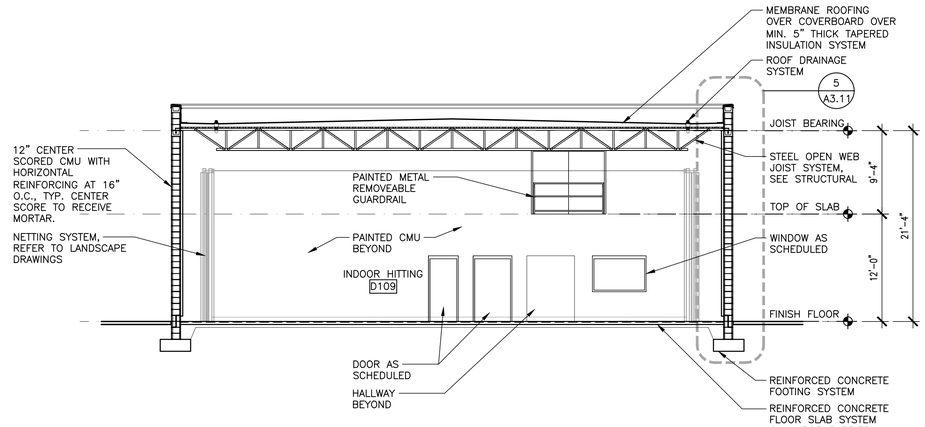
2 LOCKER ROOM / HITTING FACILITY SECTION

1/8" = 1'-0"



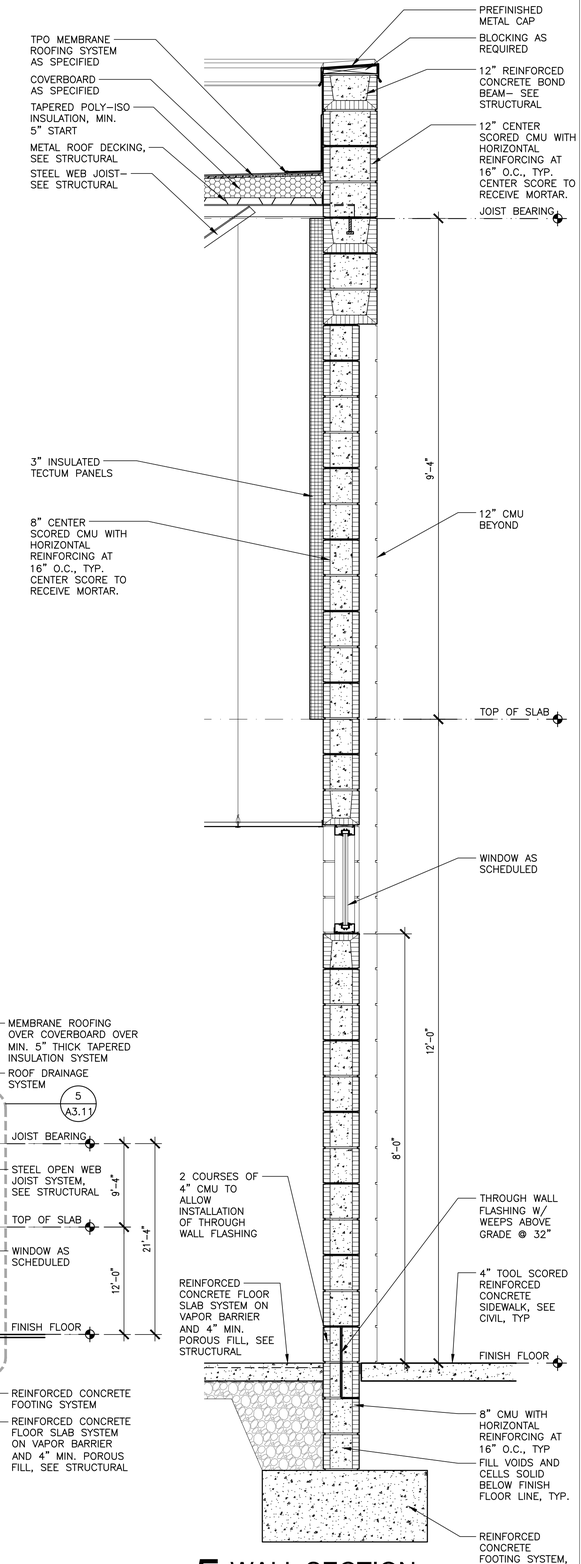
3 LOCKER ROOM / HITTING FACILITY SECTION

1/8" = 1'-0"



4 LOCKER ROOM / HITTING FACILITY SECTION

1/8" = 1'-0"



5 WALL SECTION

3/4" = 1'-0"

LATHAN
ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

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SHEET TITLE:
BUILDING SECTIONS AND DETAILS

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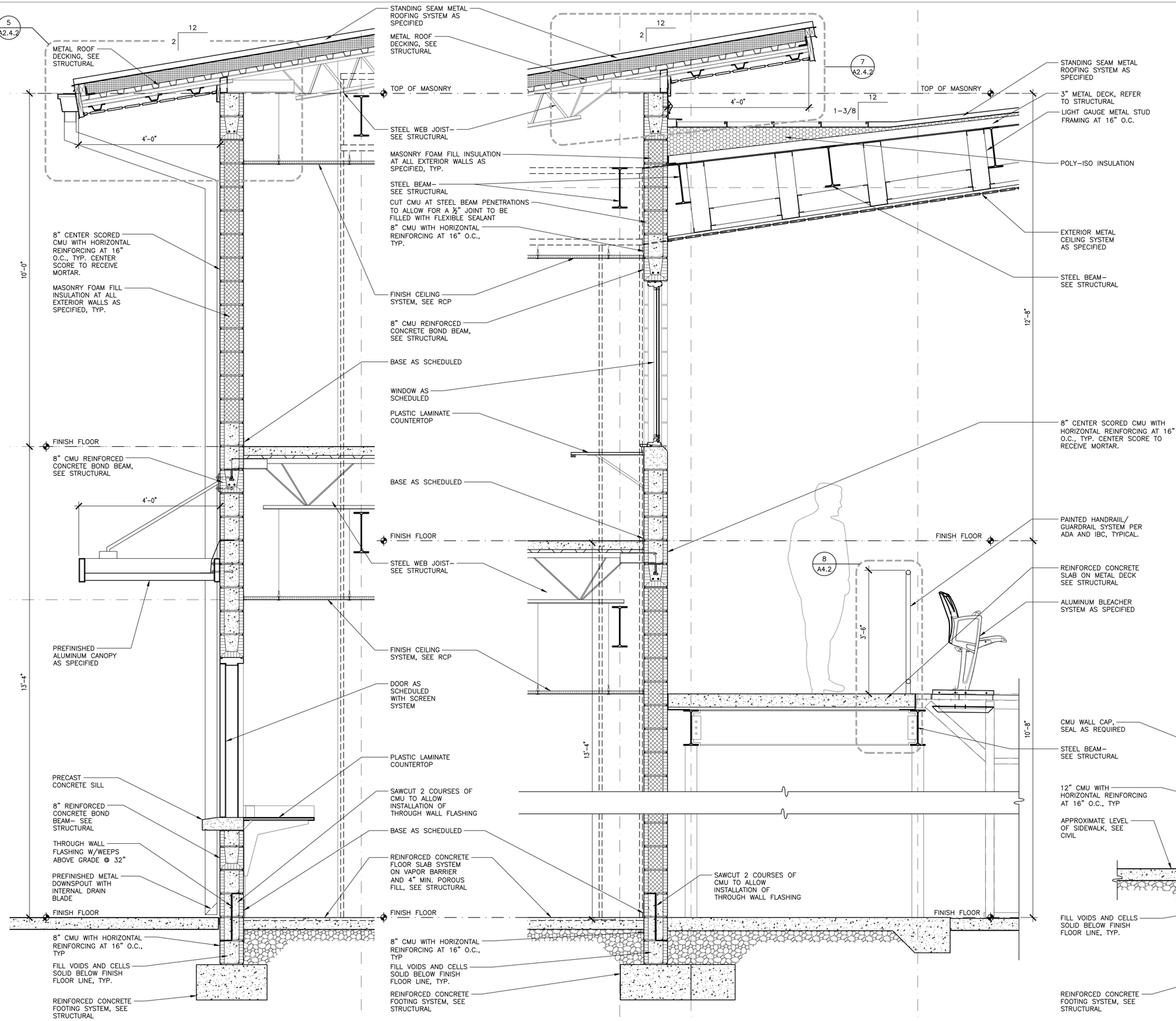
0 1" 2"



1 WALL SECTION
3/4" = 1'–0"

2 WALL SECTION
3/4" = 1'–0"

3 SECTION @ BACKSTOP WALL
3/4" = 1'–0"

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
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TRUSSVILLE CITY BOARD OF EDUCATION

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SHEET TITLE:
WALL SECTIONS

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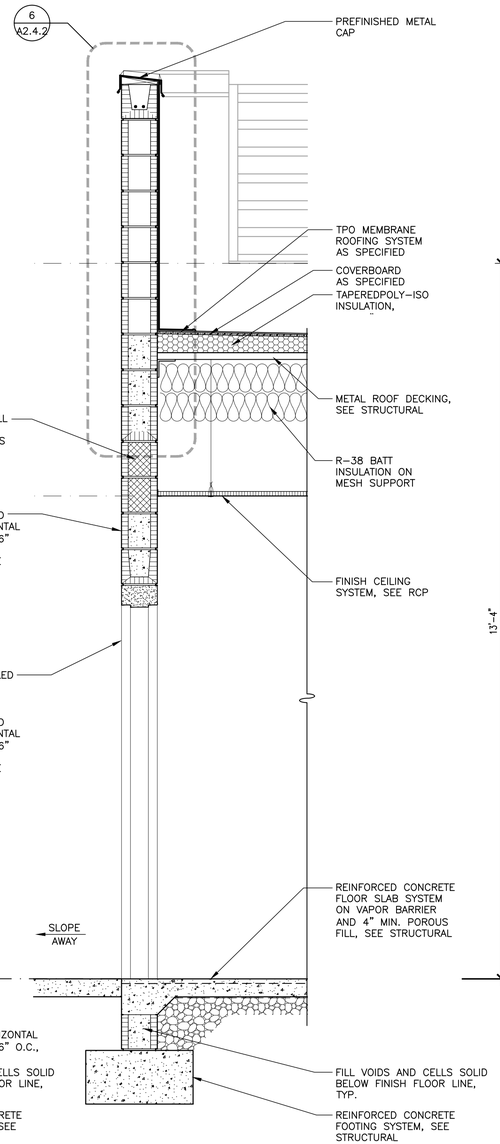
0 1" 2"

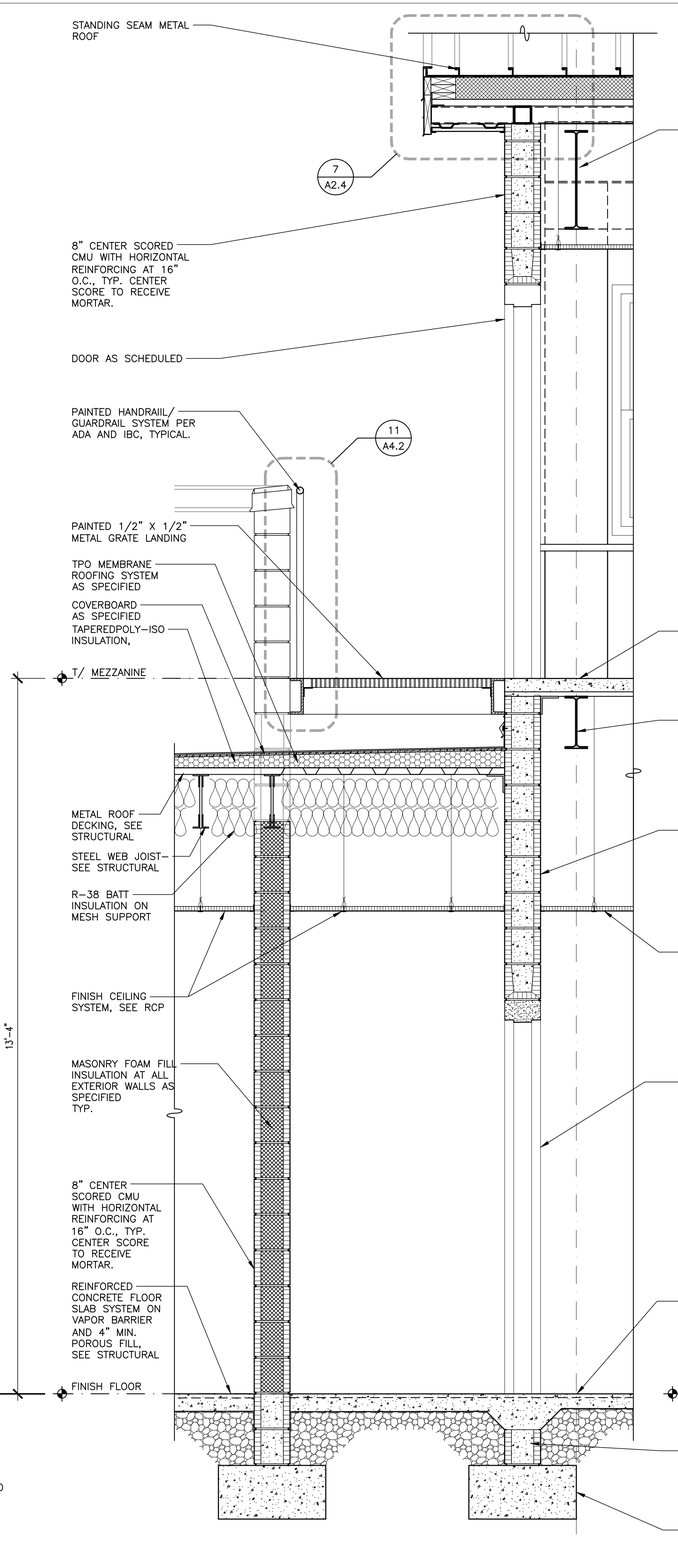


1 WALL SECTION

3/4" = 1'-0"

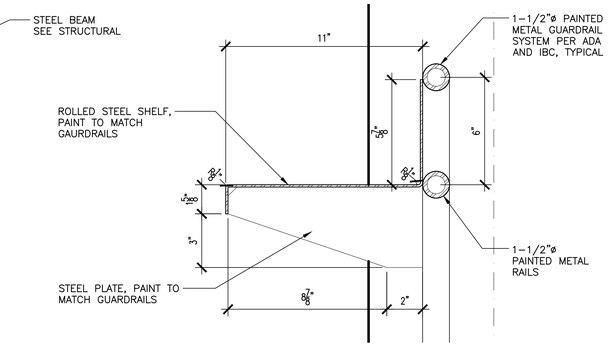
2 WALL SECTION

3/4" = 1'-0"



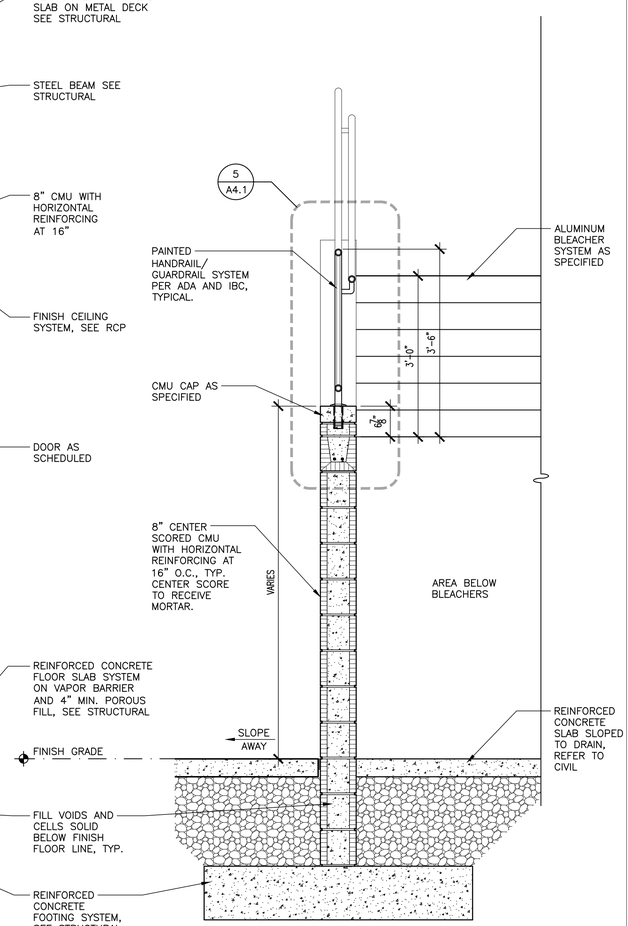
3 WALL SECTION

3/4" = 1'-0"



5 SHELF DETAIL

3" = 1'-0"



4 WALL SECTION

3/4" = 1'-0"

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
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SHEET TITLE:
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A3.8
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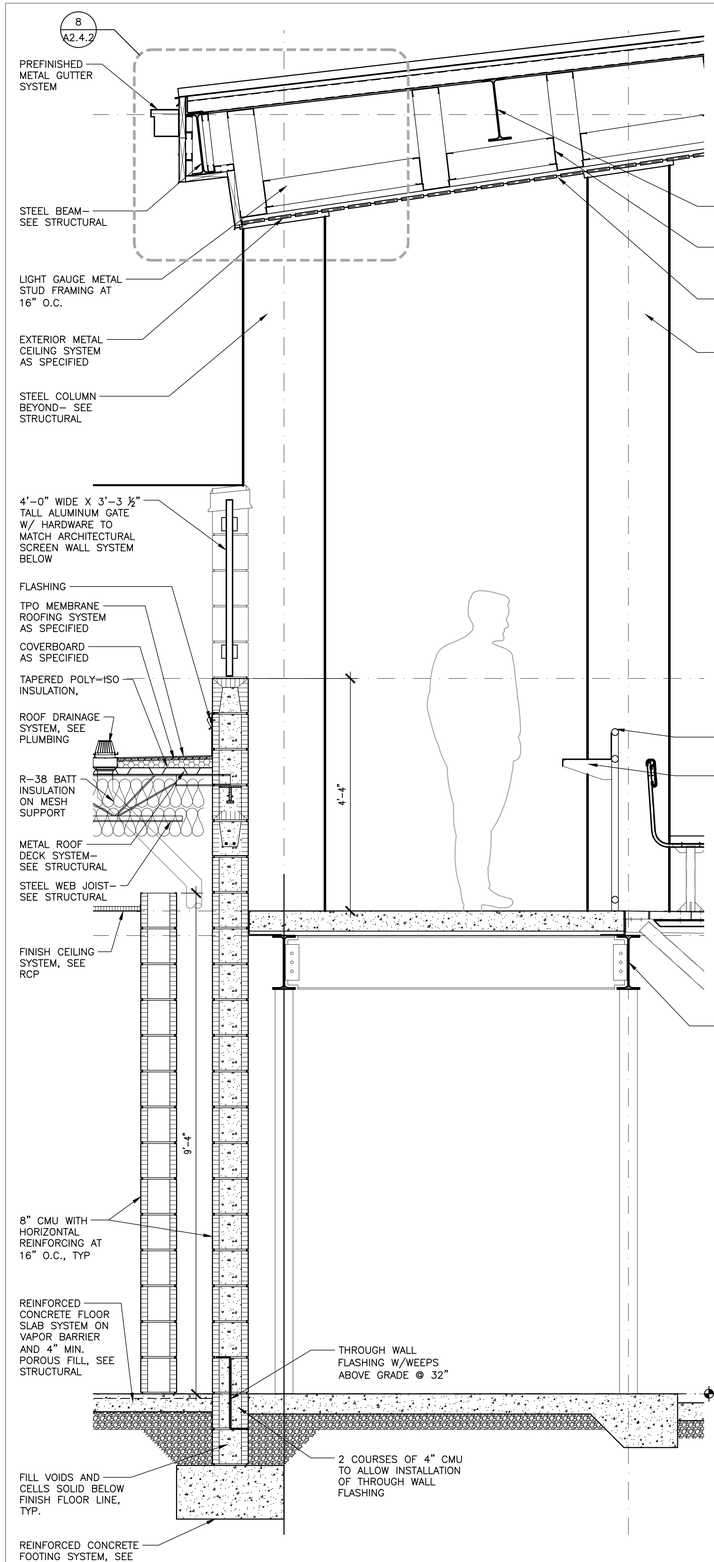
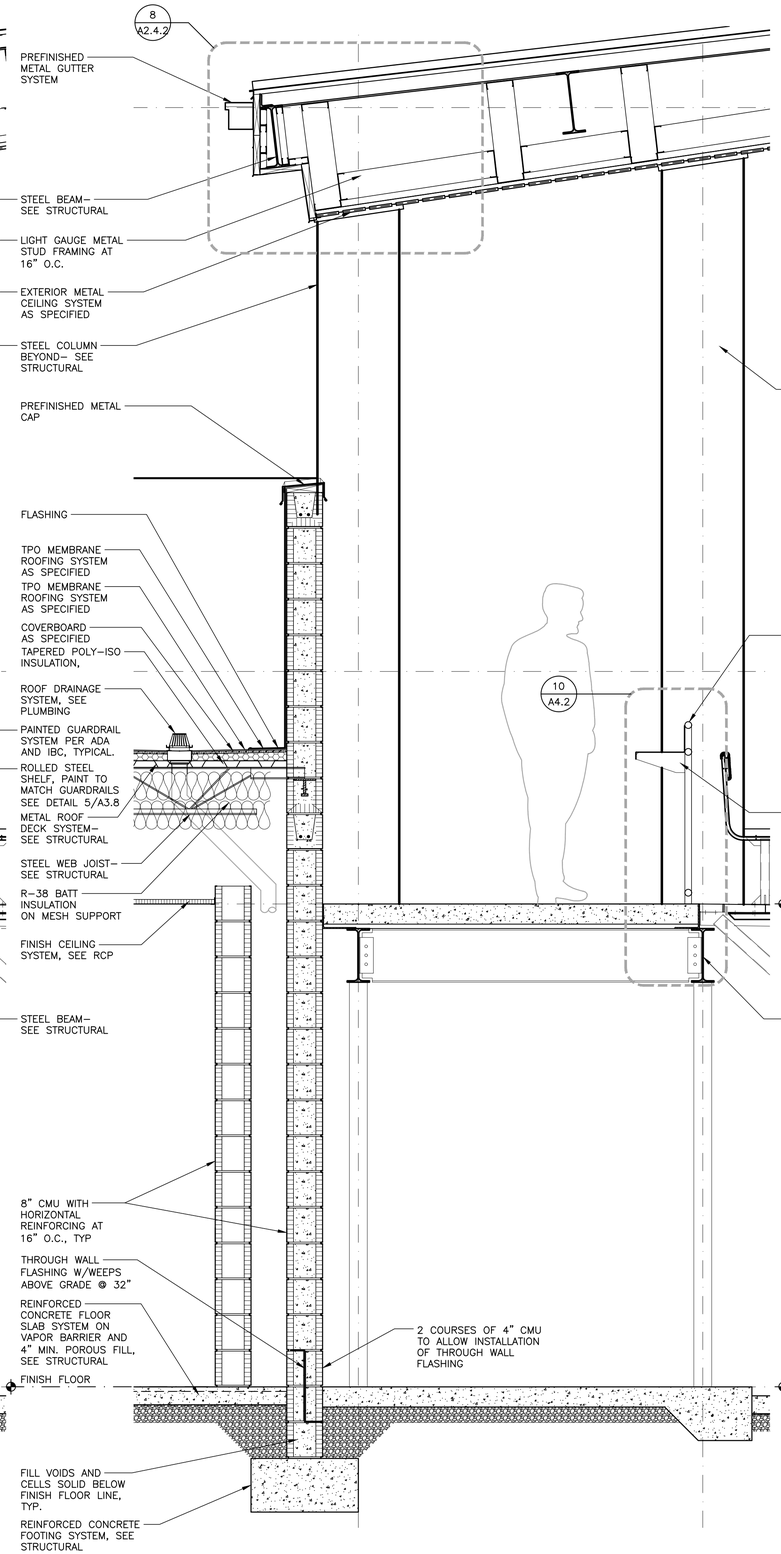
0 1" 2"



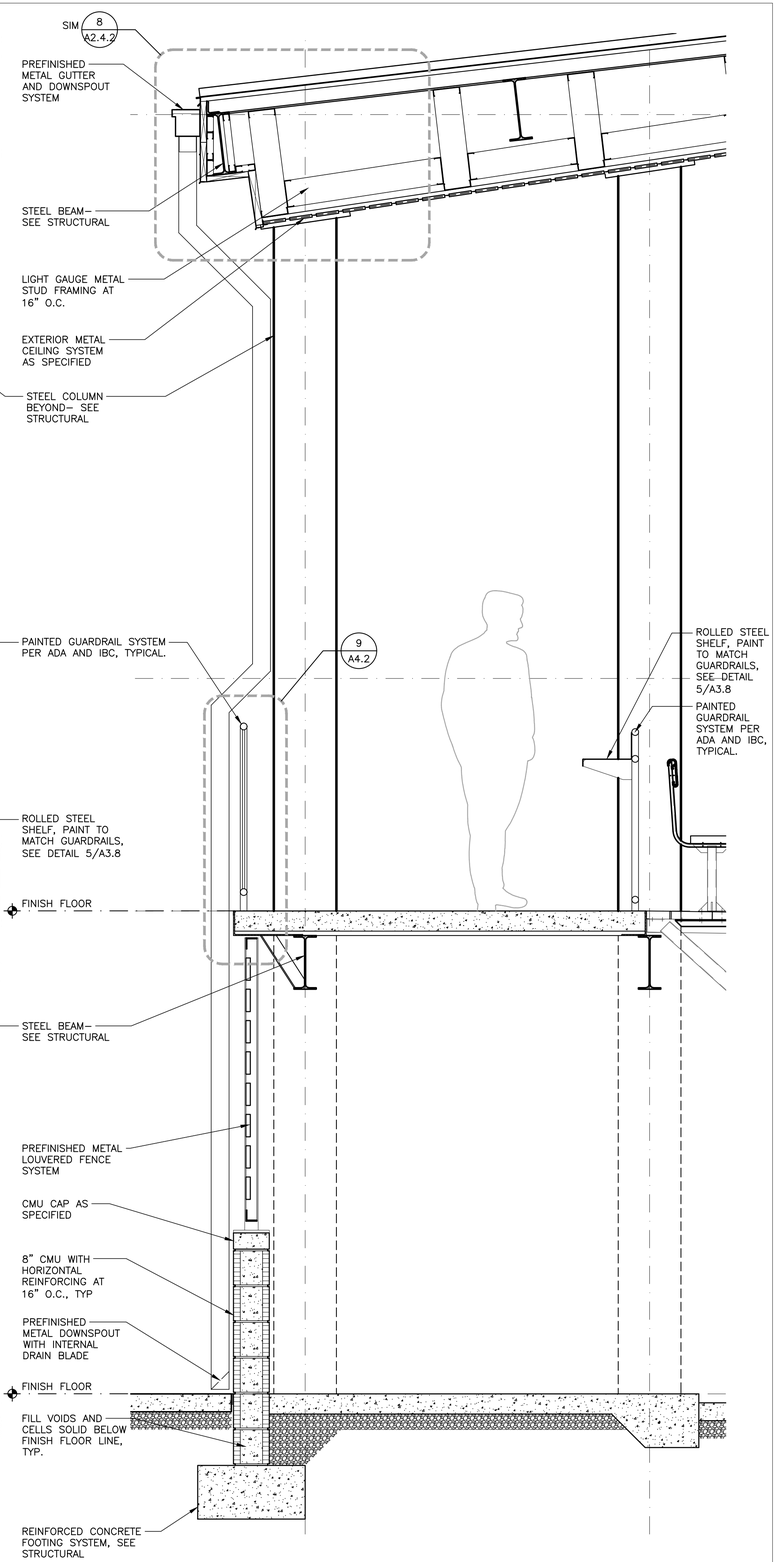
1 WALL SECTION

3/4" = 1'–0"



2 WALL SECTION

3/4" = 1'–0"



3 WALL SECTION

3/4" = 1'–0"

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

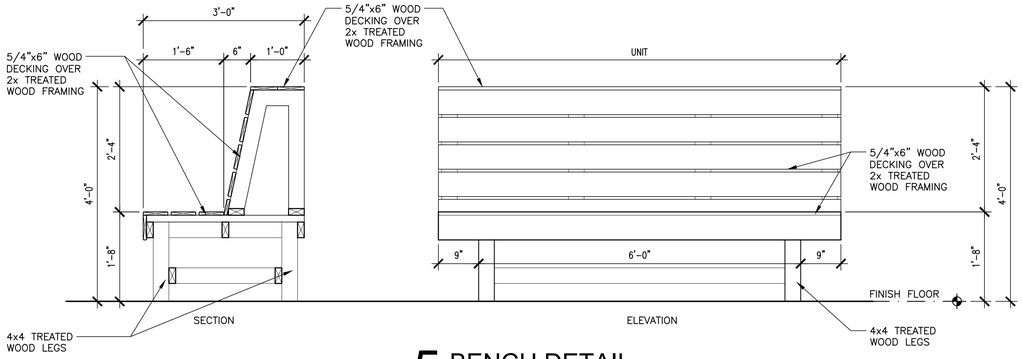
STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

SHEET TITLE:
WALL SECTIONS

PROJ. MGR.: R.VERNON
DRAWN: TSS
hdr
DATE: MARCH 13, 2024
REVISIONS

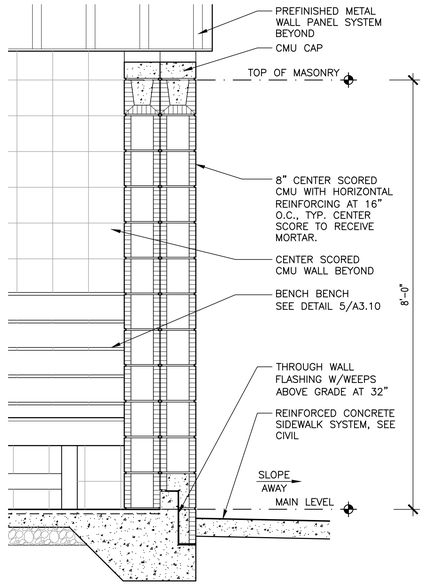
JOB NO. 23-72
SHEET NO:
A3.9
19 OF 33

0 1" 2"



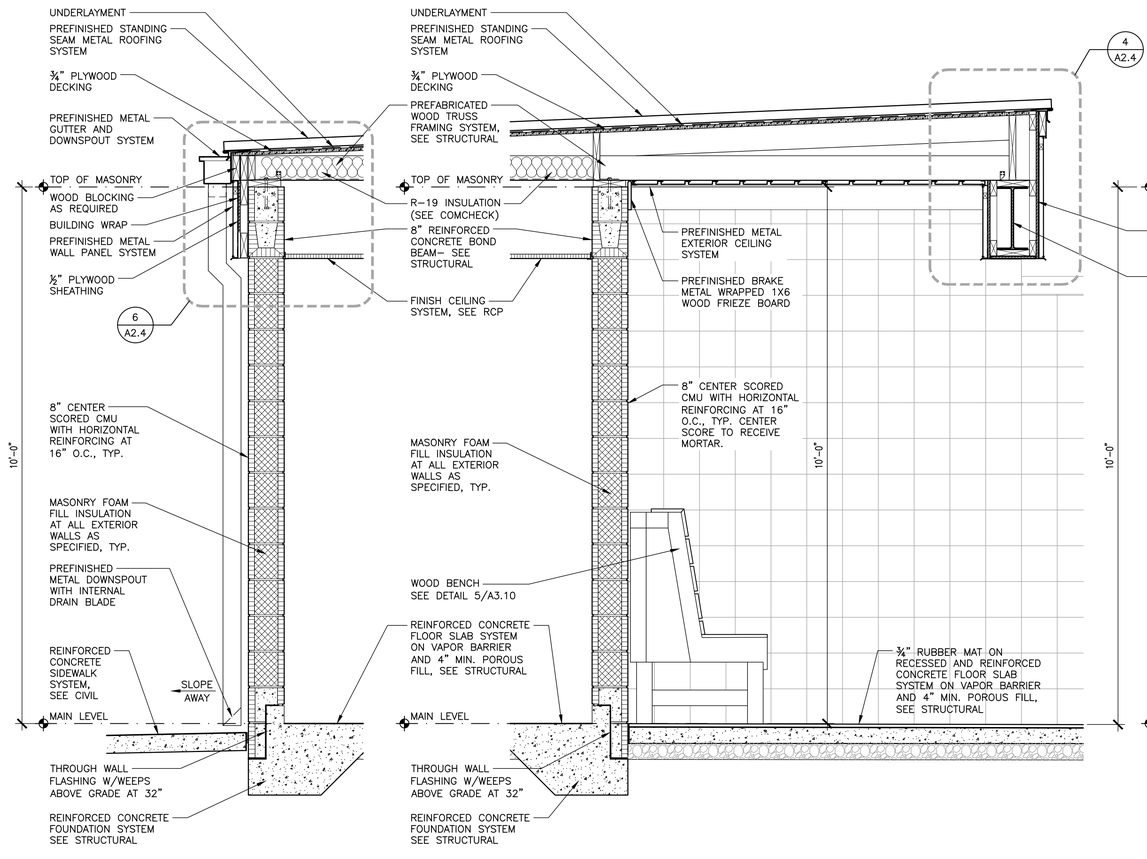
5 BENCH DETAIL

3/4" = 1'-0"



6 WALL SECTION

3/4" = 1'-0"

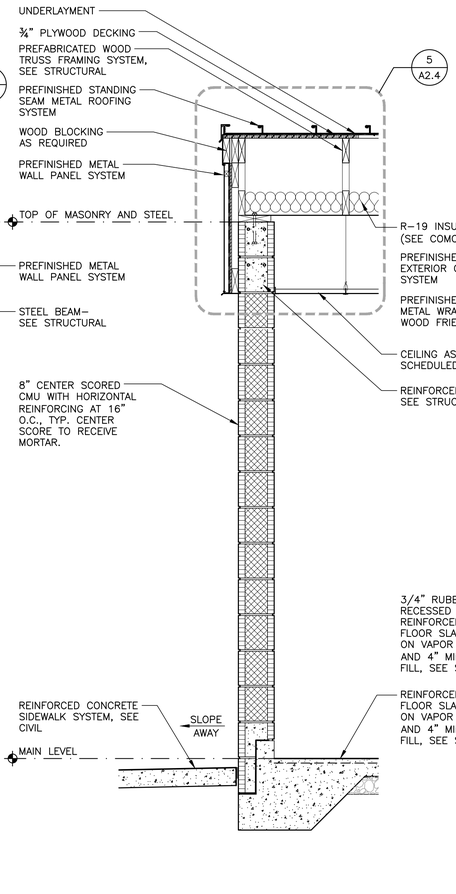


1 WALL SECTION

3/4" = 1'-0"

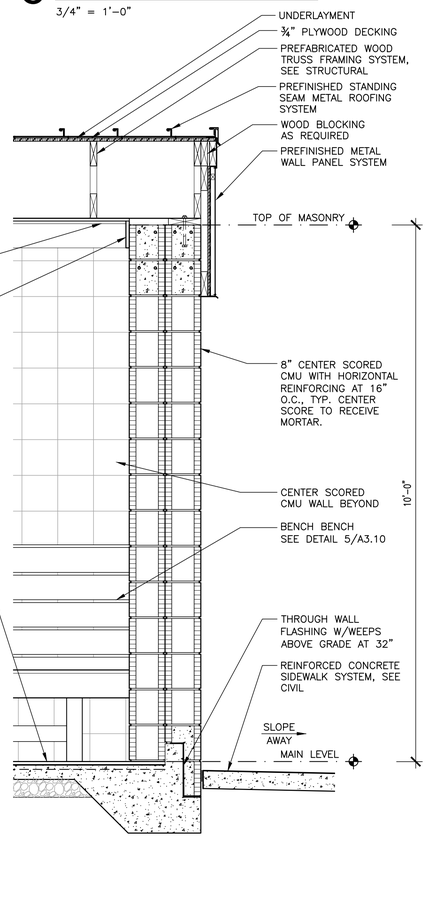
2 WALL SECTION

3/4" = 1'-0"



3 WALL SECTION

3/4" = 1'-0"



4 WALL SECTION

3/4" = 1'-0"

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

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

SHEET TITLE:
WALL SECTIONS

PROJ. MGR.: R.VERNON
DRAWN: TSS
hdr
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
A3.10
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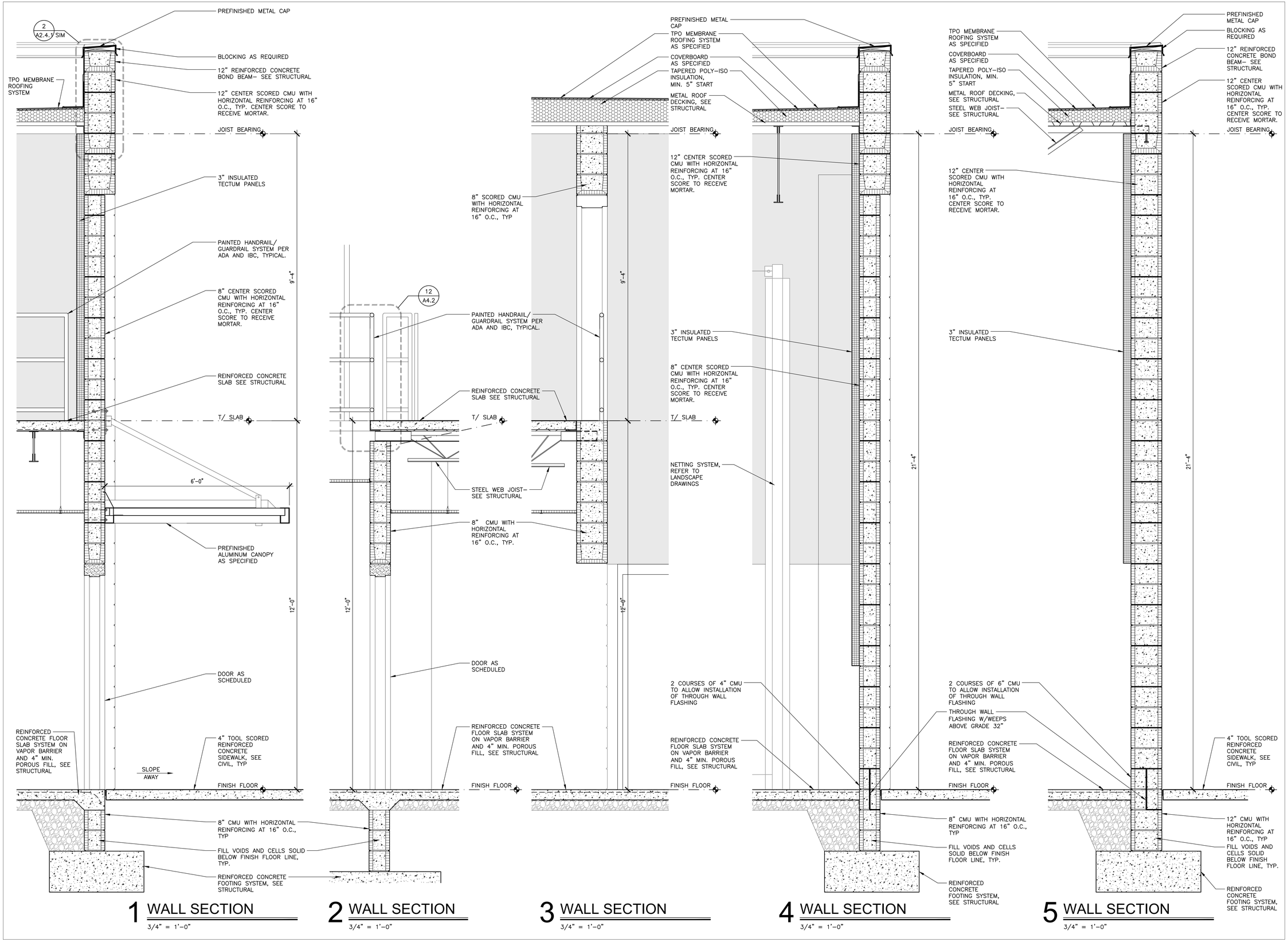
0 1" 2"



LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

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RICK N. LATHAN
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SHEET TITLE:
WALL SECTIONS

PROJ. MGR.: R.VERNON
DRAWN: TSS
hdr
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
A3.11
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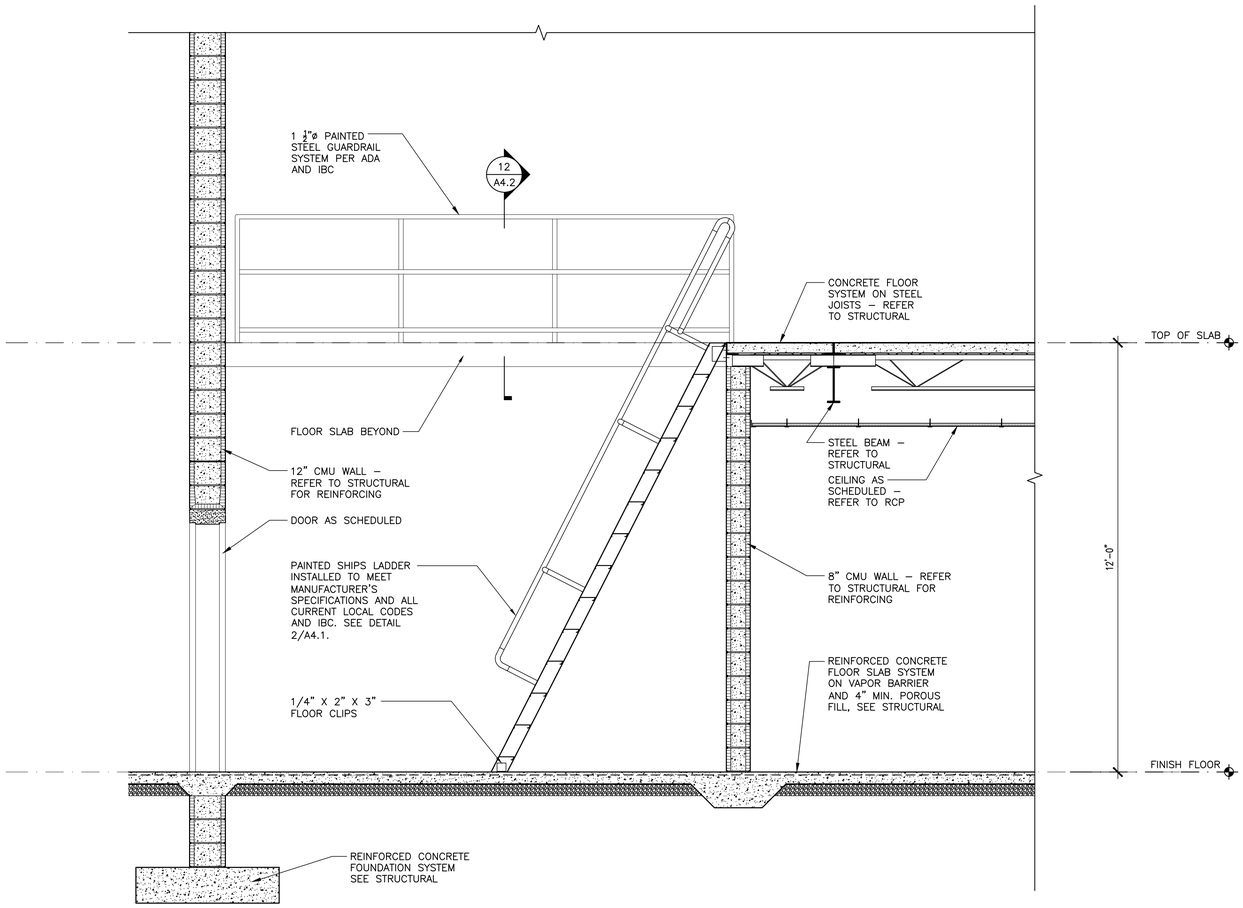
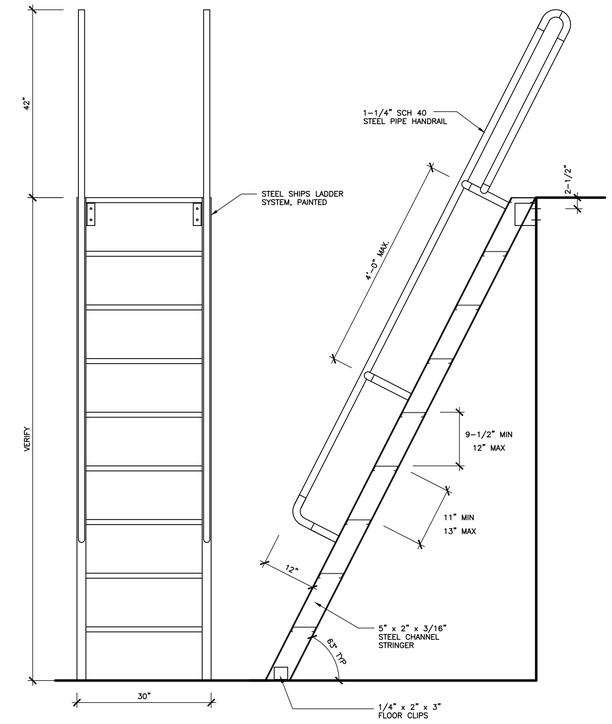
0 1" 2"



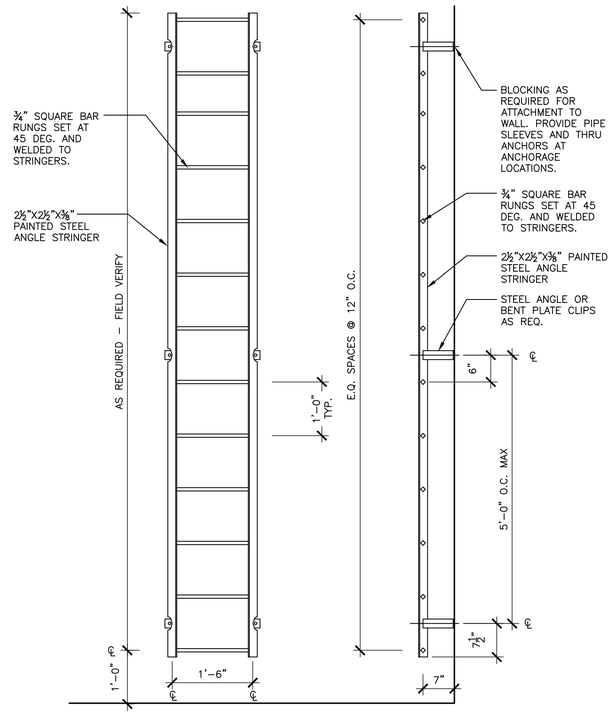
1 LADDER SECTION @ HITTING FACILITY

1/2" = 1'-0"



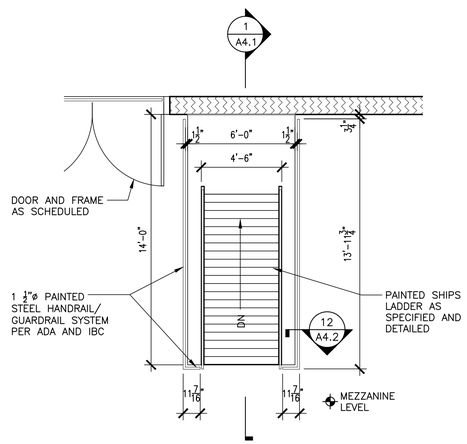
2 LADDER DETAIL

3/4" = 1'-0"



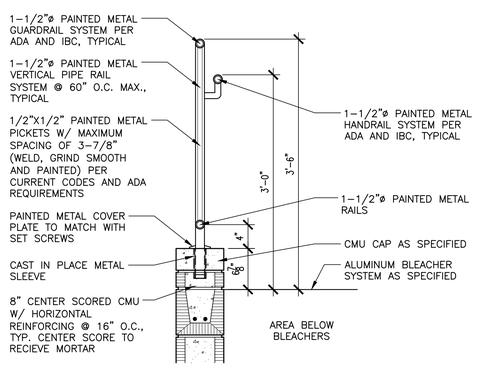
3 ROOF ACCESS LADDER DETAIL

3/4" = 1'-0"



4 PARTIAL MEZZANINE LEVEL FLOOR PLAN

1/4" = 1'-0"



5 RAILING DETAIL

1" = 1'-0"

LATHAN
ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

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

SHEET TITLE:
SHIPS LADDER SECTIONS

PROJ. MGR.: R.VERNON
DRAWN: TSS
hdr
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
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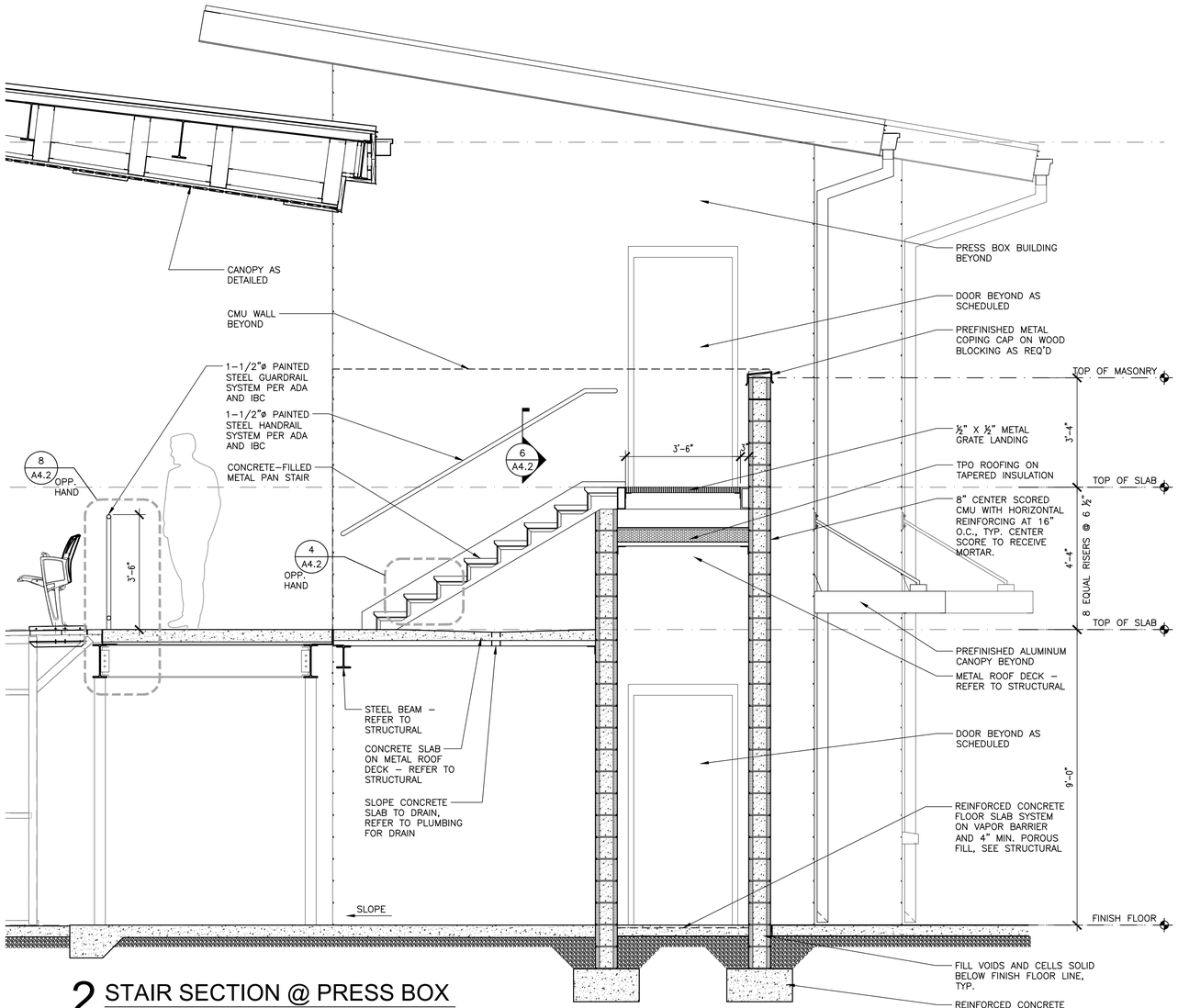
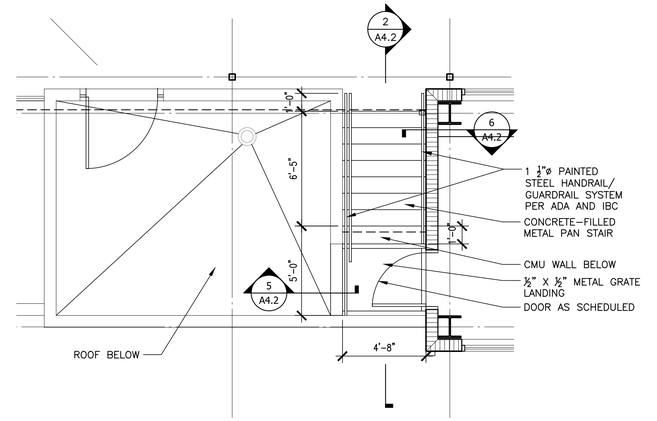
0 1" 2"



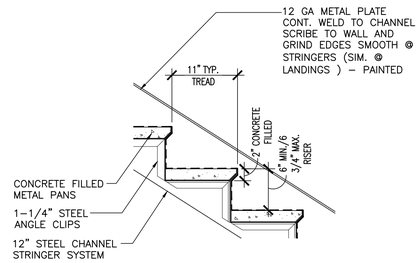
2 STAIR SECTION @ PRESS BOX

1/2" = 1'–0"



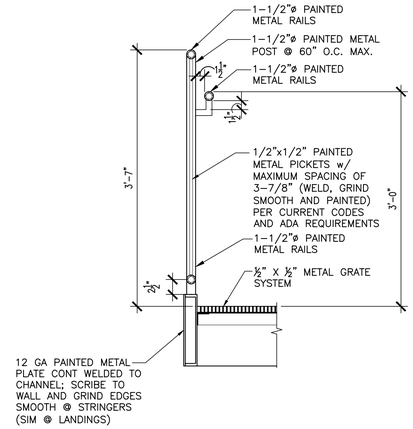
1 STAIR PLAN @ PRESS BOX

1/4" = 1'–0"



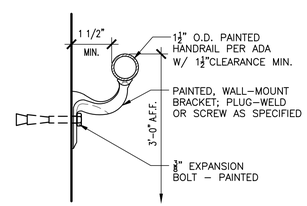
4 STAIR DETAIL

SCALE: 1" = 1'–0"



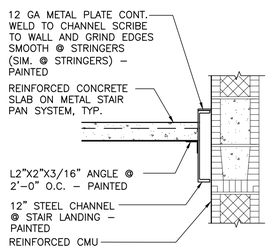
5 RAILING DETAIL

SCALE: 1" = 1'–0"



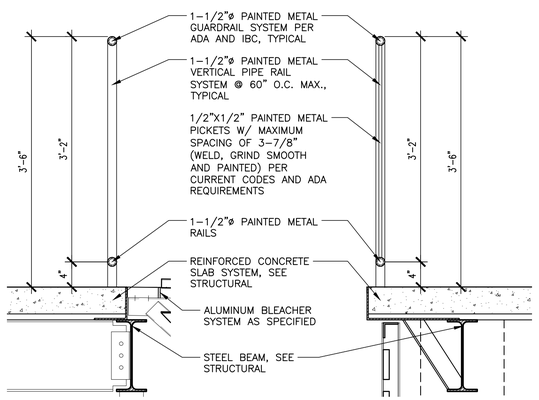
6 RAILING DETAIL

SCALE: 3" = 1'–0"



7 STAIR DETAIL

SCALE: 1" = 1'–0"

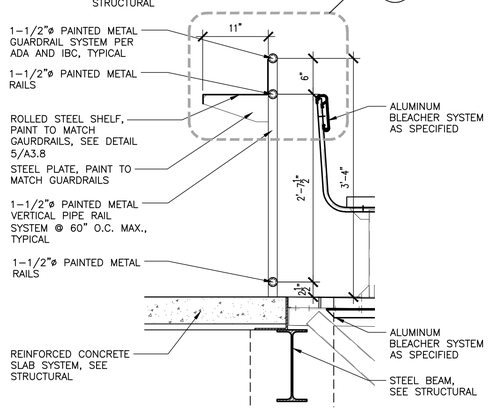


8 RAILING DETAIL

SCALE: 1" = 1'–0"

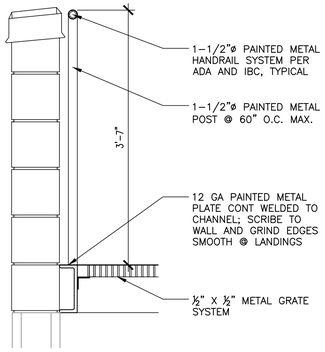
9 RAILING DETAIL

SCALE: 1" = 1'–0"



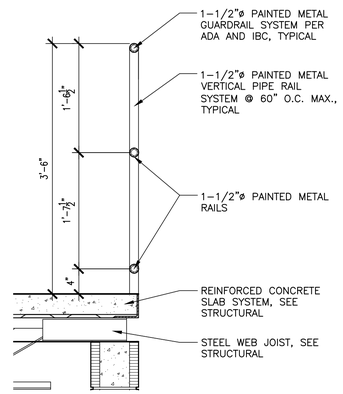
10 RAILING DETAIL

SCALE: 1" = 1'–0"



11 RAILING DETAIL

SCALE: 1" = 1'–0"



12 RAILING DETAIL

SCALE: 1" = 1'–0"

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

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

SHEET TITLE:
STAIR SECTIONS AND DETAILS

PROJ. MGR.: R.VERNON
DRAWN: TSS
hdr
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
A4.2
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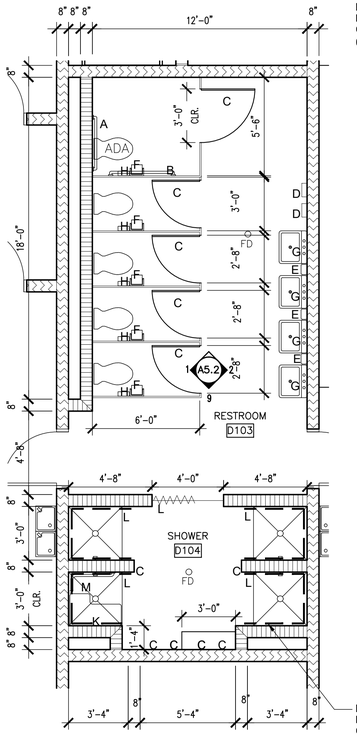
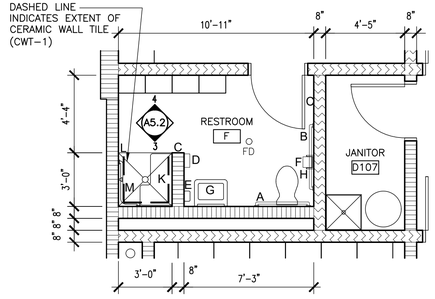
0 1" 2"



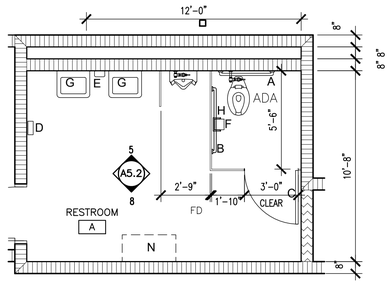
1 ENLARGED TOILET PLAN

1/4" = 1'-0"



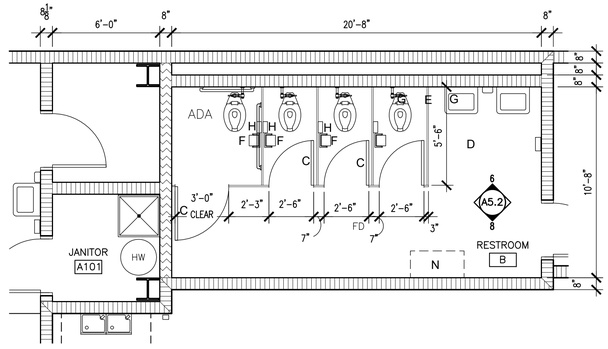
2 ENLARGED TOILET PLAN

1/4" = 1'-0"



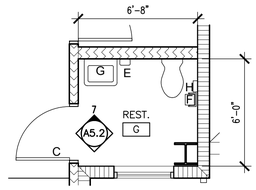
3 ENLARGED TOILET PLAN

1/4" = 1'-0"



4 ENLARGED TOILET PLAN

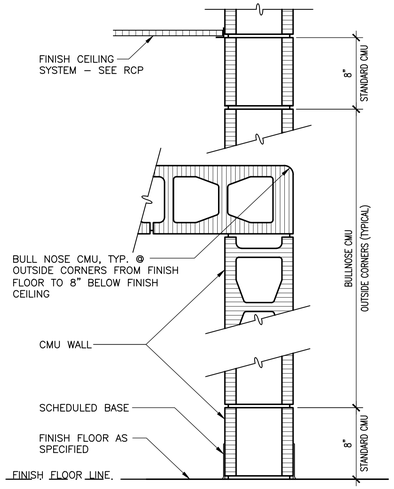
1/4" = 1'-0"



5 ENLARGED TOILET PLAN

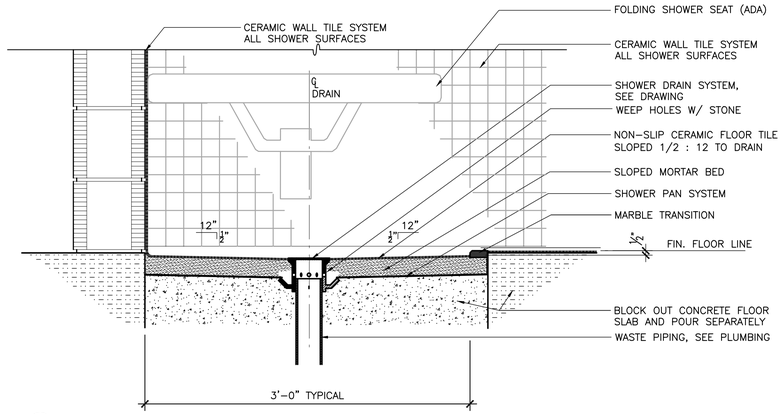
1/4" = 1'-0"

TOILET ACCESSORY LEGEND	
A	36" S.S. GRAB BAR
B	42" S.S. GRAB BAR
C	COAT HOOK (INSIDE STALL DOOR)
D	ELECTRIC HAND DRYER
E	SOAP DISPENSER
F	TOILET TISSUE DISPENSER
G	FRAMED MIRROR 18" X 30"
H	FEMININE NAPKIN DISPOSAL
J	MOP AND BROOM HOOK
K	ADA SHOWER SEAT
L	SHOWER CURTAIN AND RODS
M	ADA SHOWER GRAB BARS
N	BABY CHANGING STATION



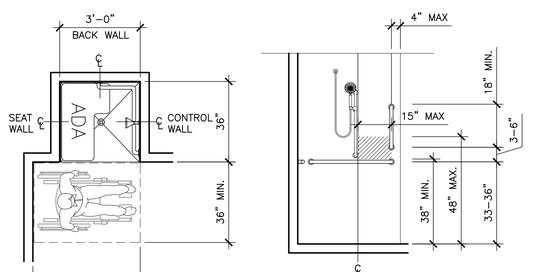
9 SECTION DETAIL @CMU BULLNOSE

1-1/2 = 1'-0"



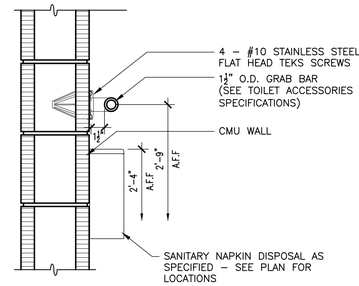
6 SECTION DETAIL @SHOWER PAN DETAIL

1-1/2 = 1'-0"



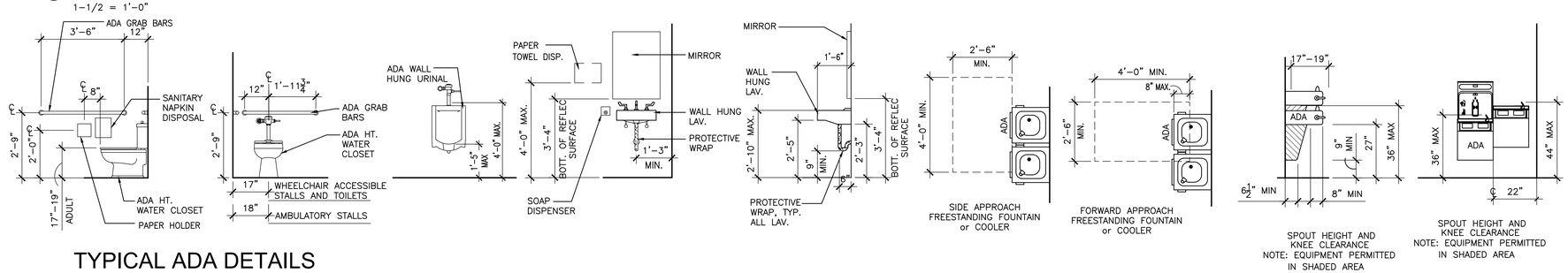
7 ADA SHOWER DETAILS

3/8 = 1'-0"



8 SECTION DETAIL @GRAB BAR DETAIL

1-1/2 = 1'-0"



TYPICAL ADA DETAILS

3/8 = 1'-0"

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
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6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

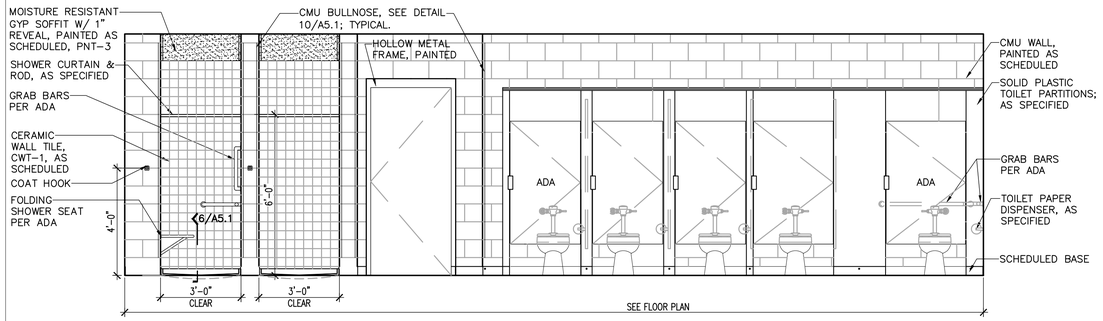
STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

SHEET TITLE:
ENLARGED TOILET PLANS AND ELEVATIONS

PROJ. MGR.: R.VERNON
DRAWN: B.LOGAN
hdr
DATE: MARCH 13, 2024
REVISIONS

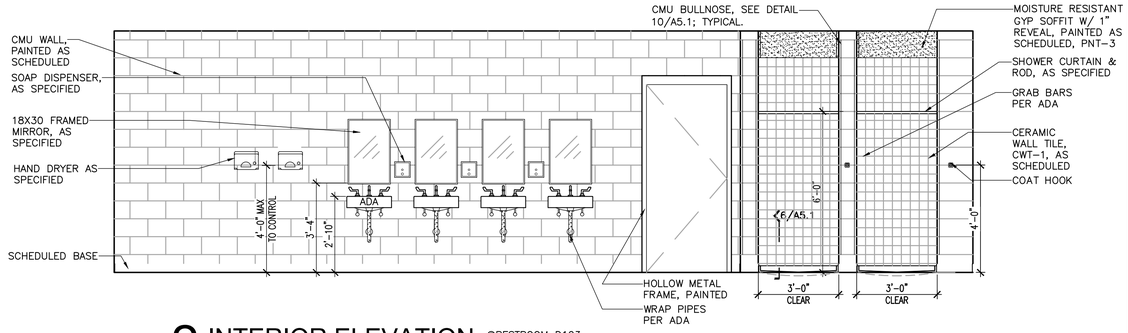
JOB NO. 23-72
SHEET NO:
A5.1
24 OF 33

0 1" 2"



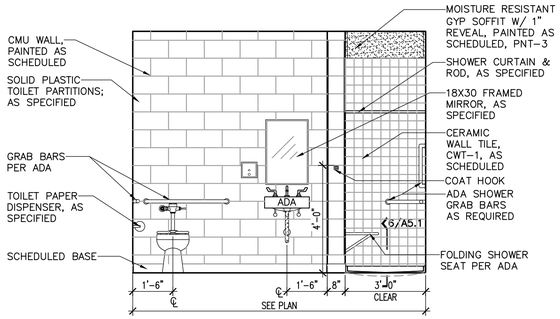
1 INTERIOR ELEVATION @RESTROOM D103 AND SHOWER D104

3/8" = 1'-0"



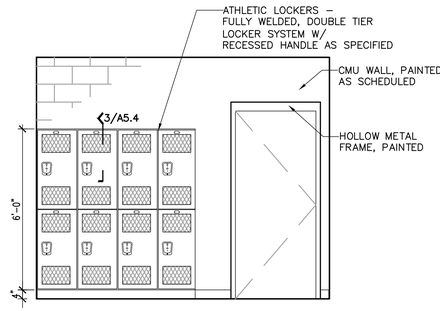
2 INTERIOR ELEVATION @RESTROOM D103 AND SHOWER D104

3/8" = 1'-0"



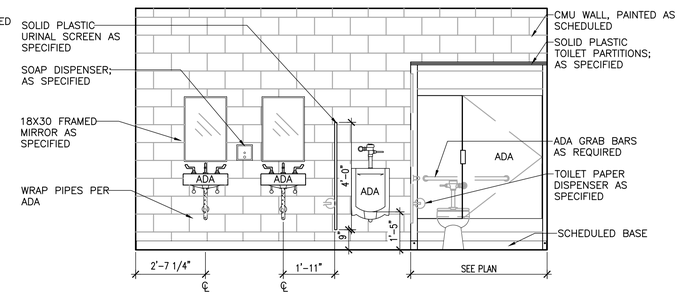
3 INTERIOR ELEVATION @RESTROOM F

3/8" = 1'-0"



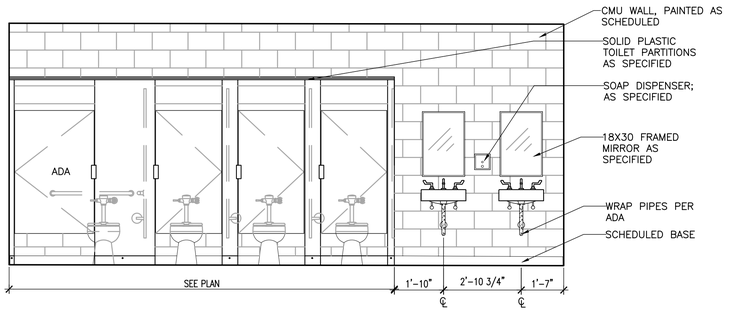
4 INTERIOR ELEVATION @RESTROOM F

3/8" = 1'-0"



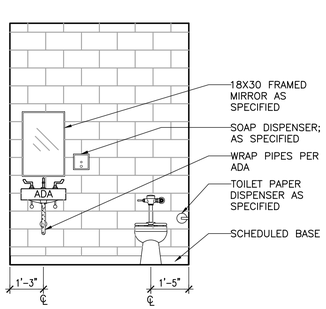
5 INTERIOR ELEVATION @RESTROOM A

3/8" = 1'-0"



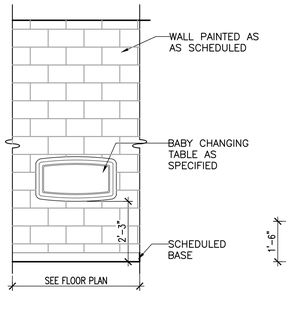
6 INTERIOR ELEVATION @RESTROOM B

3/8" = 1'-0"



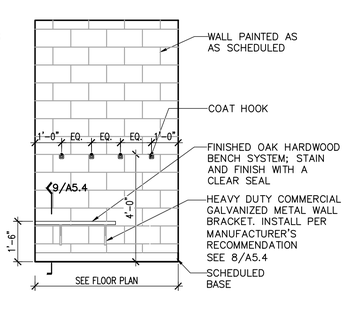
7 INTERIOR ELEVATION @RESTROOM G

3/8" = 1'-0"



8 INT. ELEVATION @RESTROOM A/B

3/8" = 1'-0"



9 INT.ELEVATION @SHOWER D104

3/8" = 1'-0"

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
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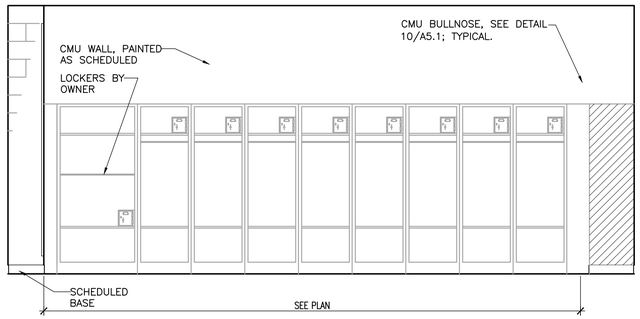
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

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

SHEET TITLE:
TOILET ELEVATIONS

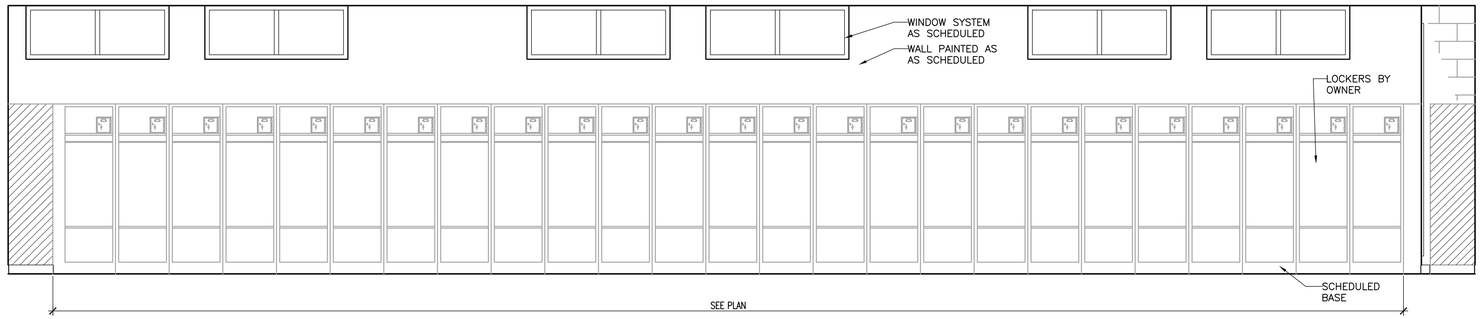
PROJ. MGR.: R.VERNON
DRAWN: B.LOGAN
hdr
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
A5.2
25 OF 33
0 1" 2"



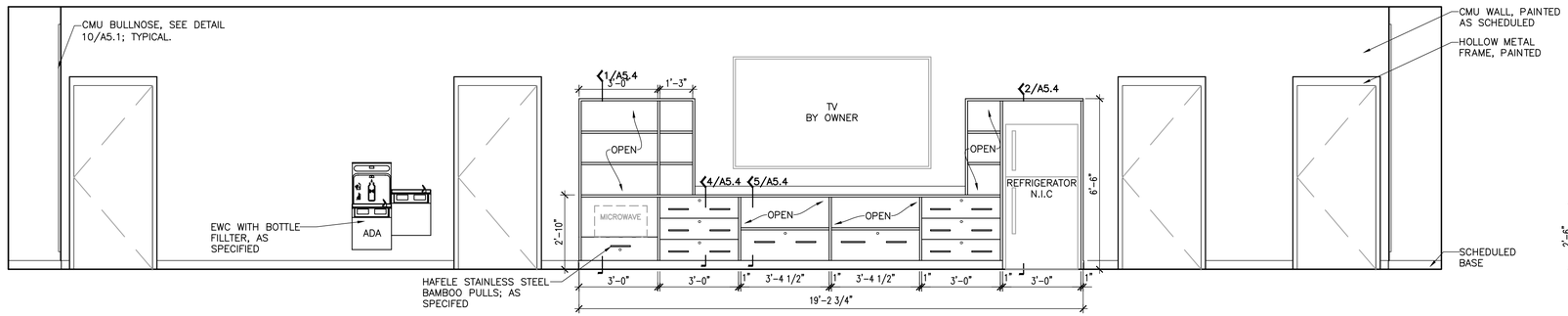
1 INTERIOR ELEVATION @VARSITY LOCKER ROOM

3/8" = 1'-0"



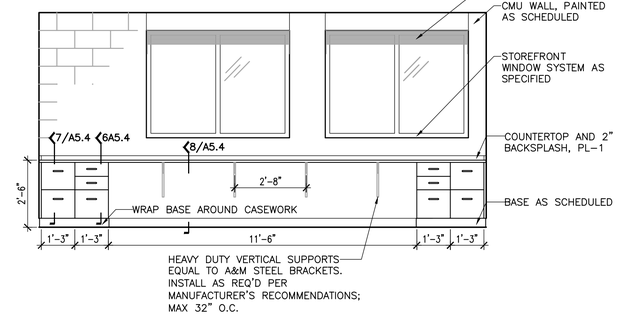
2 INTERIOR ELEVATION @VARSITY LOCKER ROOM

3/8" = 1'-0"



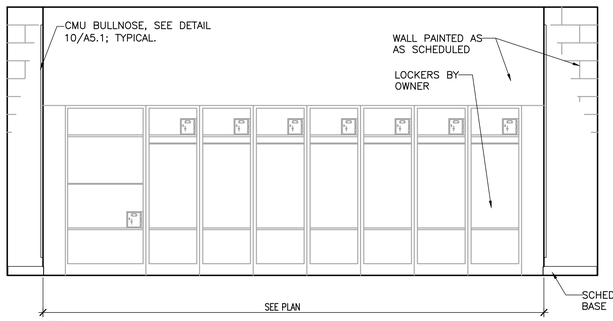
3 INTERIOR ELEVATION @VARSITY LOCKER ROOM

3/8" = 1'-0"



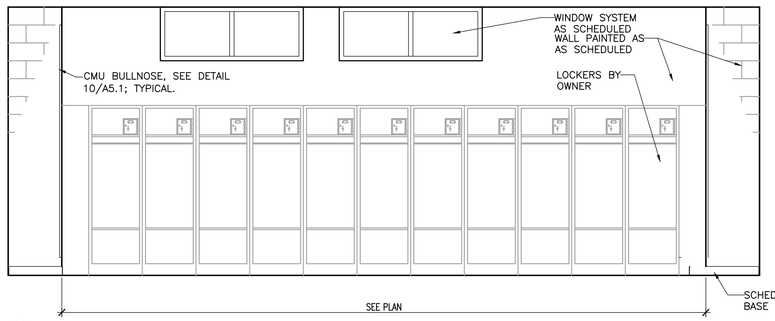
4 INTERIOR ELEVATION @OFFICE

3/8" = 1'-0"



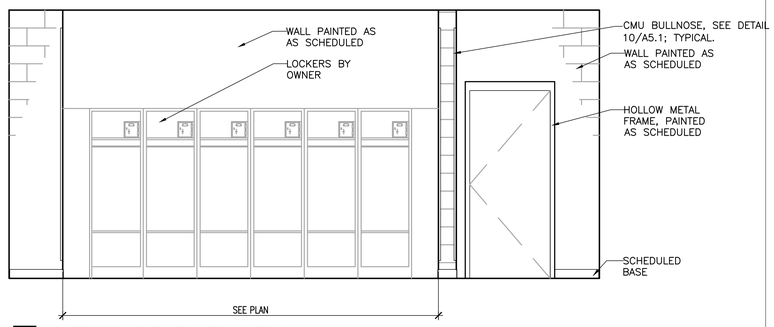
5 INTERIOR ELEVATION @JR. VARSITY LOCKER

3/8" = 1'-0"



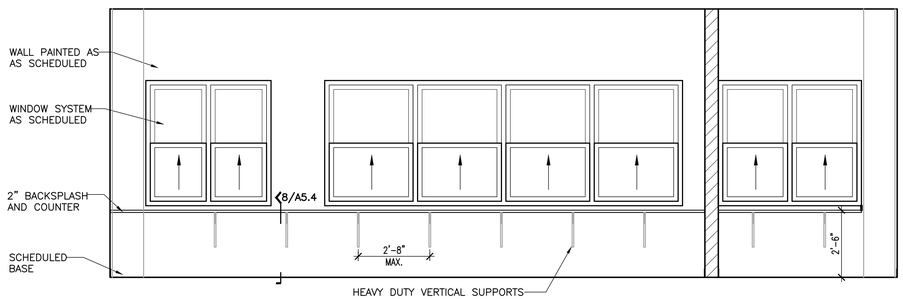
6 INTERIOR ELEVATION @JR. VARSITY LOCKER

3/8" = 1'-0"



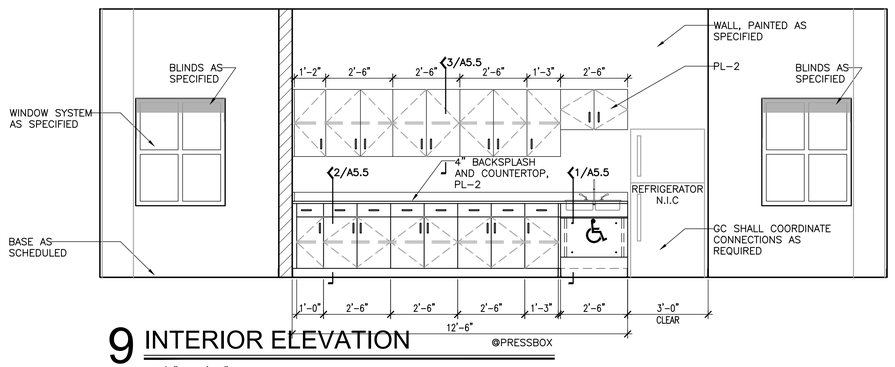
7 INTERIOR ELEVATION @JR. VARSITY LOCKER

3/8" = 1'-0"



8 INTERIOR ELEVATION @PRESSBOX/RADIO ROOM

3/8" = 1'-0"



9 INTERIOR ELEVATION @PRESSBOX

3/8" = 1'-0"

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

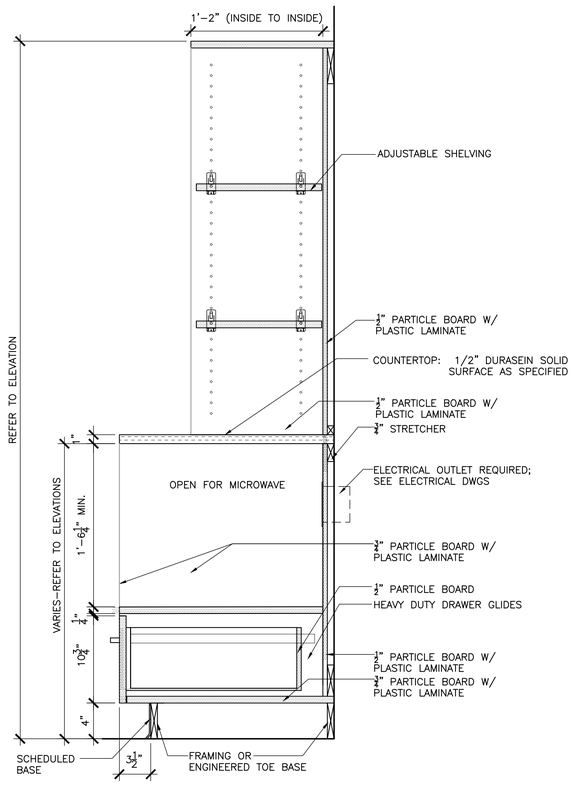
STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

SHEET TITLE:
INTERIOR ELEVATIONS

PROJ. MGR.: R.VERNON
DRAWN: B.LOGAN
hdr
DATE: MARCH 13, 2024
REVISIONS

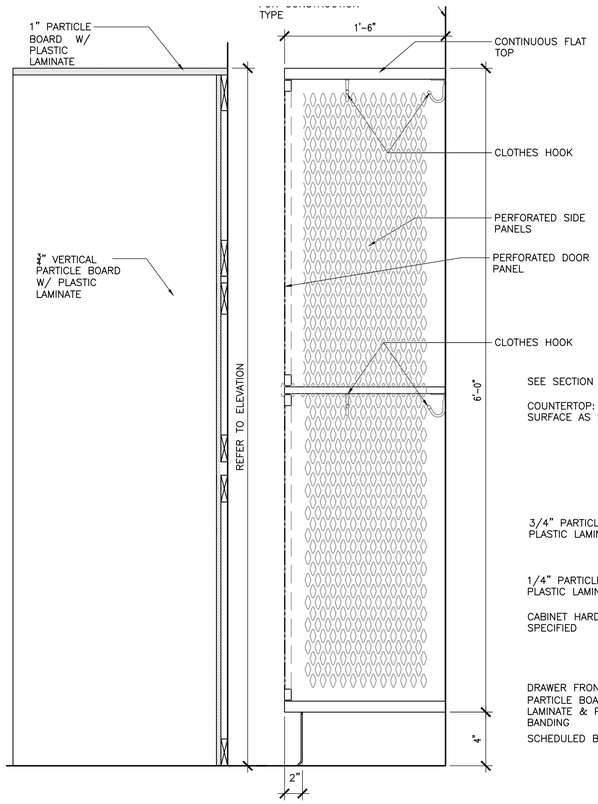
JOB NO. 23-72
SHEET NO:
A5.3
26 OF 33

0 1" 2"



1 SECTION DETAIL @VARSITY LOCKER ROOM

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

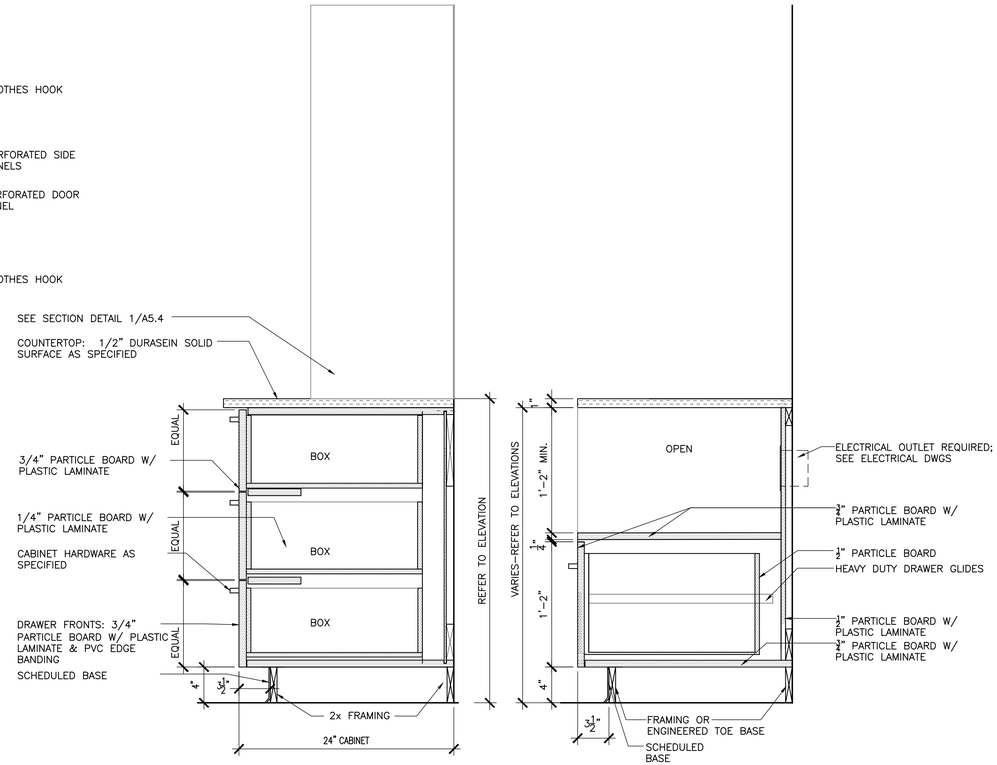


2 SECTION DETAIL @VARSITY LOCKER ROOM

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

3 SECTION DETAIL @COACH'S LOCKER

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

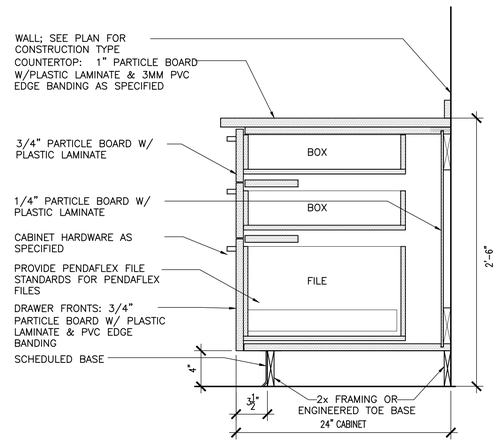


4 SECTION DETAIL @BOX/BOX/BOX CABINET

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

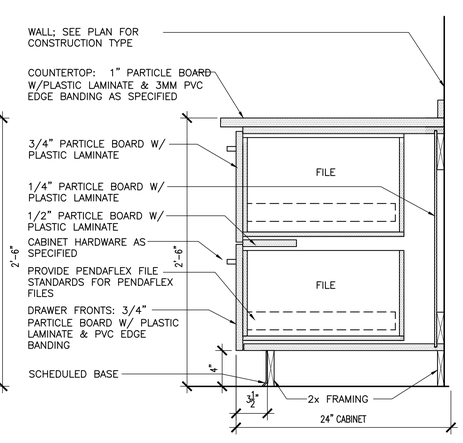
5 SECTION DETAIL @OPEN/BOX CABINET

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



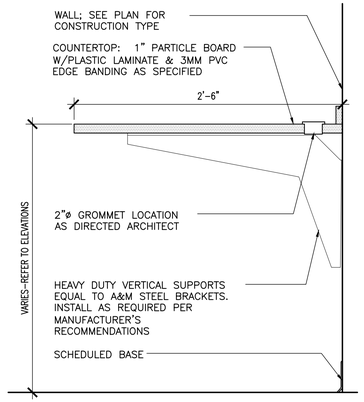
6 SECTION DETAIL @BOX/BOX/FILE

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



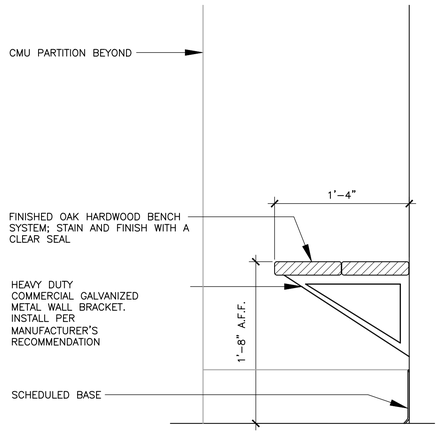
7 SECTION DETAIL @FILE/FILE CABINET

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



8 SECTION DETAIL @WORKSURFACE

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



9 SECTION DETAIL

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

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

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

SHEET TITLE:
MILLWORK DETAILS

PROJ. MGR.: R.VERNON
DRAWN: B.LOGAN
hdr
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
A5.4
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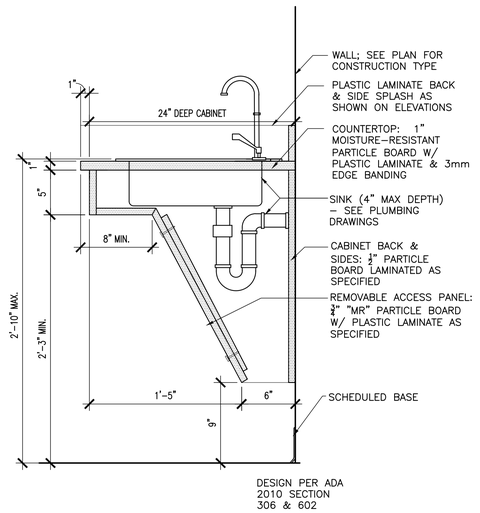
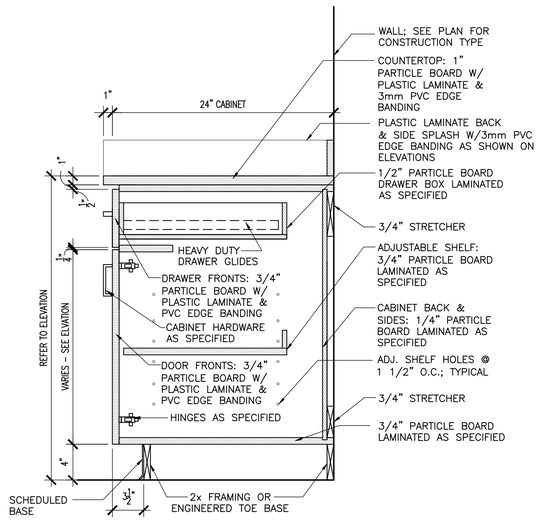
0 1" 2"



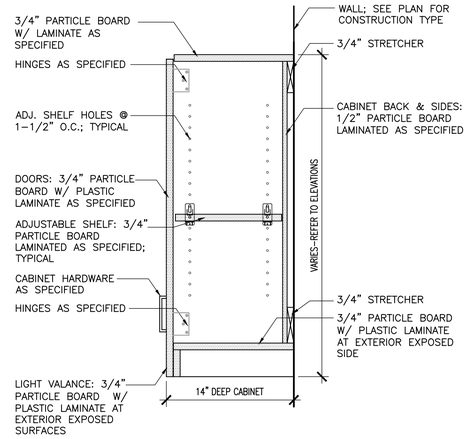
1 SECTION DETAIL @ADA BASE CABINET

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



2 SECTION DETAIL @DRAWER/DOOR CABINET

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



3 SECTION DETAIL @UPPER CABINET

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

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

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

SHEET TITLE:
MILLWORK DETAILS

PROJ. MGR.: R.VERNON
DRAWN: B.LOGAN
hdr
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
A5.5
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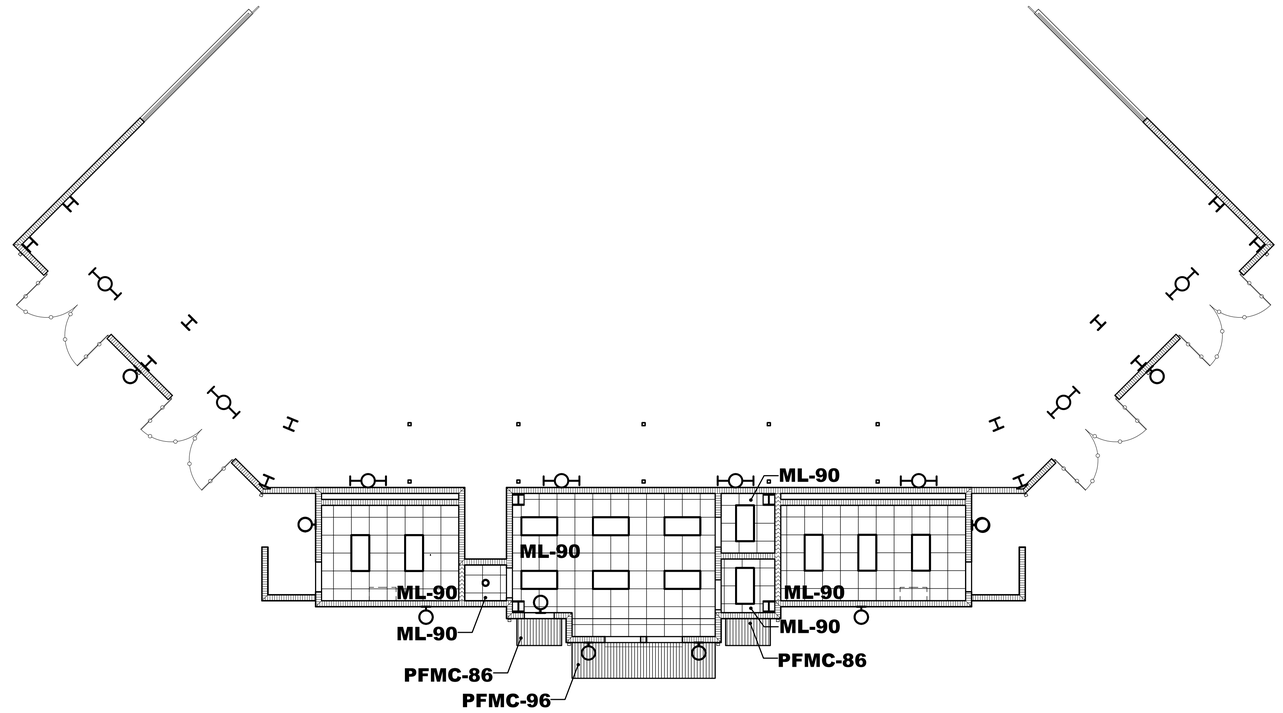
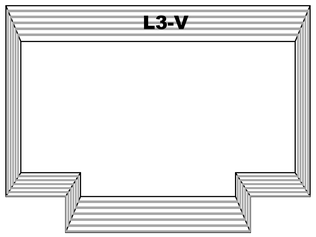
0 1" 2"



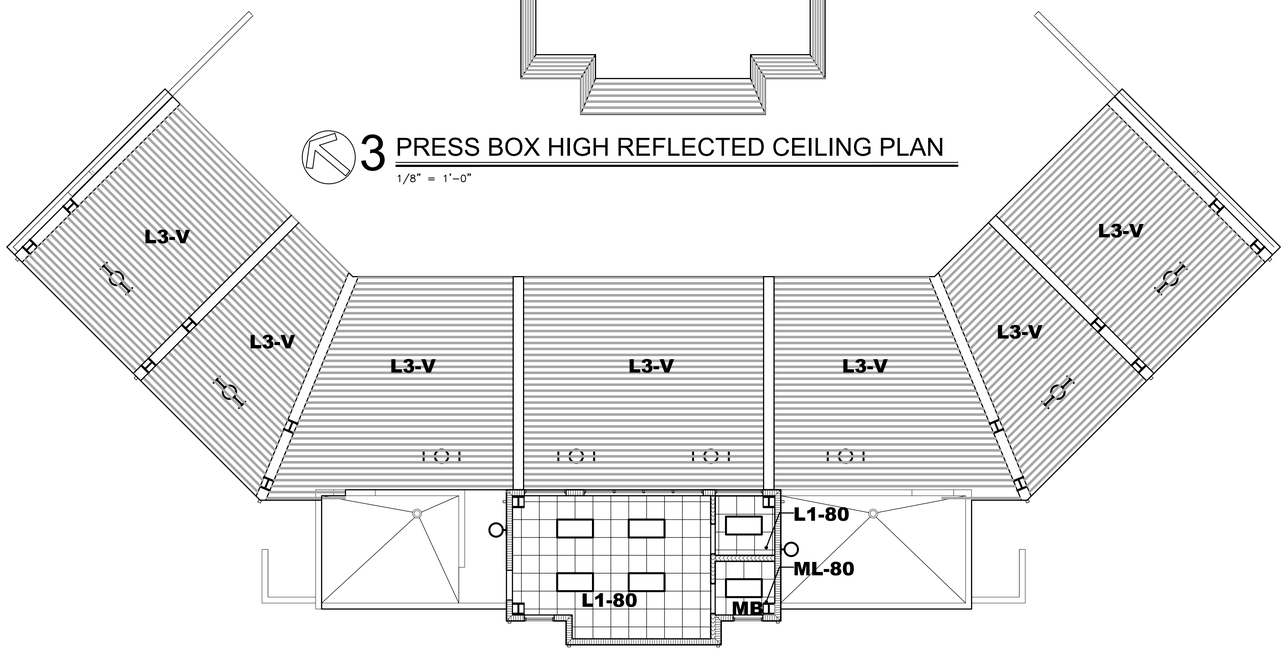
1 LOWER LEVEL PRESS BOX BUILDING REFLECTED CEILING PLAN

1/8" = 1'-0"



3 PRESS BOX HIGH REFLECTED CEILING PLAN

1/8" = 1'-0"



5 UPPER LEVEL PRESS BOX BUILDING REFLECTED CEILING PLAN

1/8" = 1'-0"

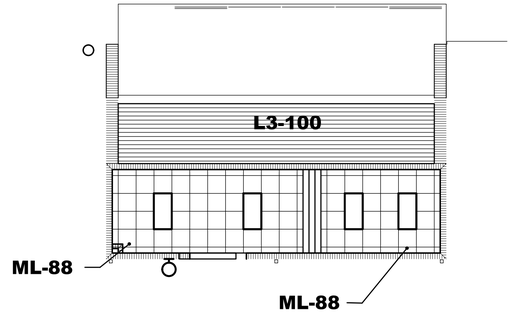
CEILING LEGEND

FIXTURE TYPES - SEE ELECTRICAL

CEILING TYPE	CEILING HEIGHTS
GB-GYPSUM BOARD	78 = 7'-8" AFF
MGB - MOISTURE RESISTANT GYPSUM BOARD	88 = 8'-8" AFF
L1 - 2 x 2 LAY-IN ACOUSTICAL CEILING TILE, AS SPECIFIED	90 = 9'-0" AFF
L2 - 2 x 2 LAY-IN ACOUSTICAL CEILING TILE, AS SPECIFIED	100 = 10'-0" AFF
L3 - 6X96 LAY-IN METAL CEILING TILE, AS SPECIFIED	
ML - 2 x 2 MOISTURE RESISTANT LAY-IN	
R - 1" REVEAL, HORIZONTAL AS SHOWN, EXTEND VERTICAL	
PFMC - PRE-FINISHED METAL CANOPY	
ESA = EXPOSED STRUCTURE ABOVE, PAINTED	
NO FINISH = NO FINISH REQUIRED	
MB = 1" MINI BLIND AS SPECIFIED	
REFER TO FINISH SYMBOLS ON PLAN FOR MATERIALS AND CEILING HEIGHTS	
CEILING TYPE — GB — 90 / CEILING HEIGHT	

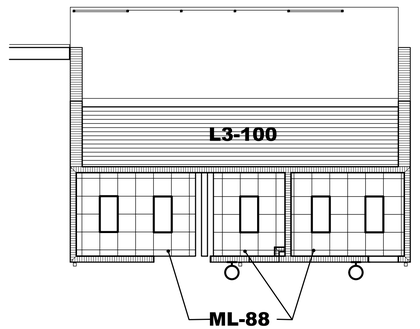
CEILING NOTES

1. ALL RATED GYPSUM BOARD CEILINGS TO BE TYPE "X" FIRE RATED GYPSUM BOARD. ALL GYPSUM BOARD WITHIN GYMNASIUM TO BE IMPACT RESISTANT
2. COORDINATE W/ MECH. PLUMBING, & ELECTRICAL DRAWINGS AND PROVIDE FRAMING AS REQUIRED TO ACCOMMODATE MECHANICAL, PLUMBING, & ELECTRICAL SYSTEMS.
3. AFF - ABOVE FINISHED FLOOR
4. ALL CEILING HEIGHTS INDICATED ARE FROM ADJACENT FINISHED FLOOR.
5. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE TYPES.
6. CEILING GRIDS ARE CENTERED IN ROOMS UNLESS NOTED OTHERWISE.



2 VISITOR DUGOUT PLAN

1/8" = 1'-0"



4 HOME DUGOUT PLAN

1/8" = 1'-0"

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

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

SHEET TITLE:
BLEACHER / DUGOUT
REFLECTED CEILING PLANS

PROJ. MGR.:	R.VERNON
DRAWN:	B.LOGAN
	hdr
DATE:	MARCH 13, 2024
REVISIONS	

JOB NO. 23-72

SHEET NO:

A7.1

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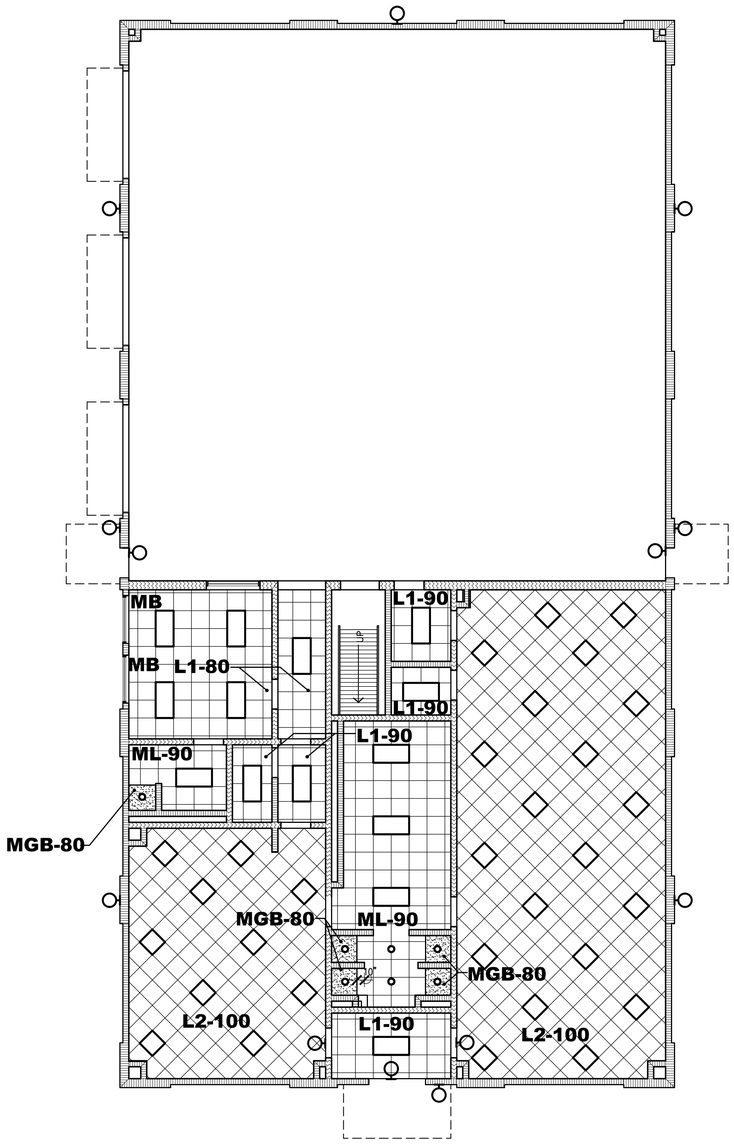
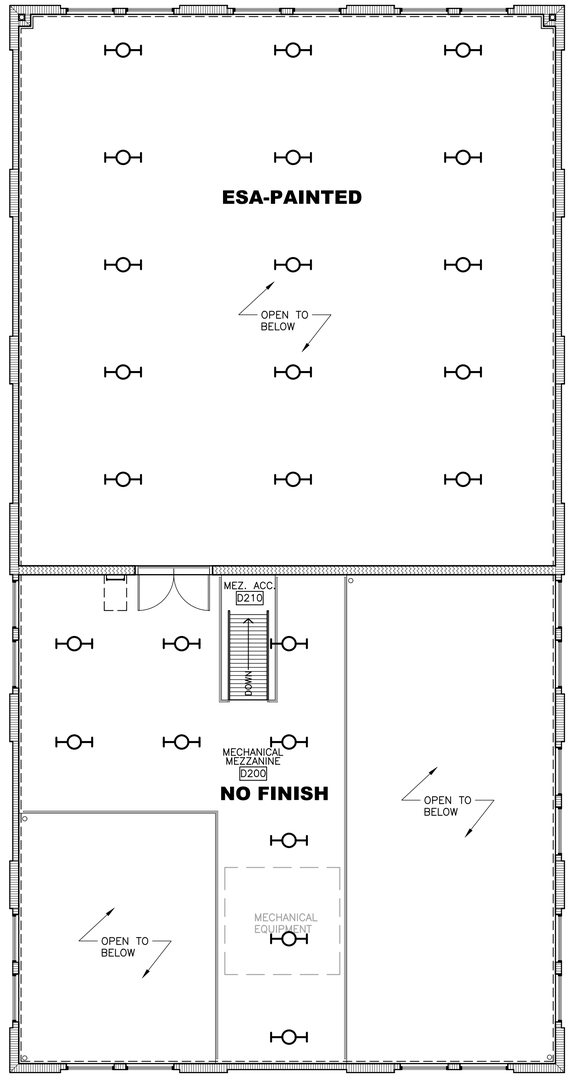
0 1" 2"



1 LOWER LEVEL LOCKER ROOM/ HITTING FACILITY REFLECTED CEILING PLAN

1/8" = 1'-0"



2 MECHANICAL MEZZANINE LOCKER ROOM/ HITTING FACILITY REFLECTED CEILING PLAN

1/8" = 1'-0"

CEILING LEGEND

FIXTURE TYPES - SEE ELECTRICAL

CEILING TYPE	CEILING HEIGHTS
GB-GYPSUM BOARD	78 = 7'-8" AFF
MGB - MOISTURE RESISTANT GYPSUM BOARD	88 = 8'-8" AFF
L1 - 2 x 2 LAY-IN ACOUSTICAL CEILING TILE, AS SPECIFIED	90 = 9'-0" AFF
L2 - 2 x 2 LAY-IN ACOUSTICAL CEILING TILE, AS SPECIFIED	100 = 10'-0" AFF
L3 - 6X96 LAY-IN METAL CEILING TILE, AS SPECIFIED	
ML - 2 x 2 MOISTURE RESISTANT LAY-IN	
R - 1" REVEAL, HORIZONTAL AS SHOWN, EXTEND VERTICAL	
PFMC - PRE-FINISHED METAL CANOPY	
ESA = EXPOSED STRUCTURE ABOVE, PAINTED	
NO FINISH = NO FINISH REQUIRED	
MB = 1" MINI BLIND AS SPECIFIED	
REFER TO FINISH SYMBOLS ON PLAN FOR MATERIALS AND CEILING HEIGHTS	
CEILING TYPE — GB—90 / CEILING HEIGHT	

CEILING NOTES

1. ALL RATED GYPSUM BOARD CEILINGS TO BE TYPE "X" FIRE RATED GYPSUM BOARD. ALL GYPSUM BOARD WITHIN GYMNASIUM TO BE IMPACT RESISTANT
2. COORDINATE W/ MECH. PLUMBING, & ELECTRICAL DRAWINGS AND PROVIDE FRAMING AS REQUIRED TO ACCOMMODATE MECHANICAL, PLUMBING, & ELECTRICAL SYSTEMS.
3. AFF - ABOVE FINISHED FLOOR
4. ALL CEILING HEIGHTS INDICATED ARE FROM ADJACENT FINISHED FLOOR.
5. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE TYPES.
6. CEILING GRIDS ARE CENTERED IN ROOMS UNLESS NOTED OTHERWISE.

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

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

SHEET TITLE:
LOCKER ROOM / HITTING FACILITY REFLECTED CEILING PLANS

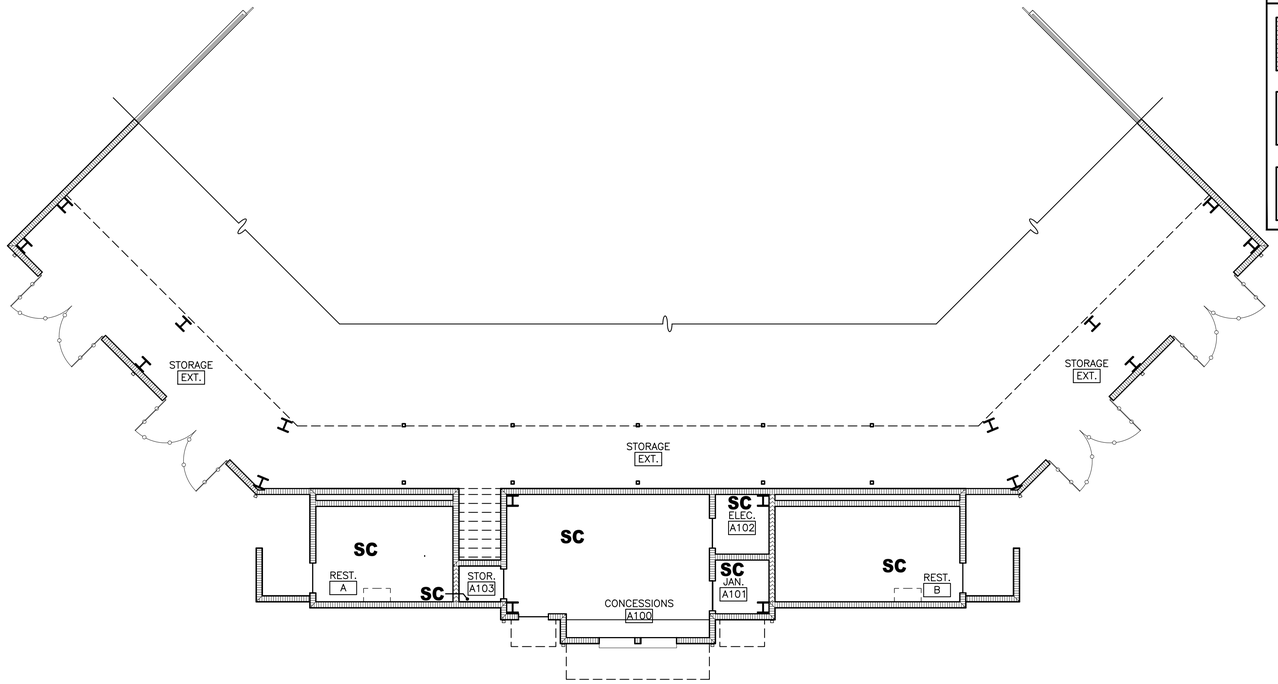
PROJ. MGR.: R.VERNON
DRAWN: B.LOGAN
hdr
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
A7.2
30 OF 33

0 1" 2"

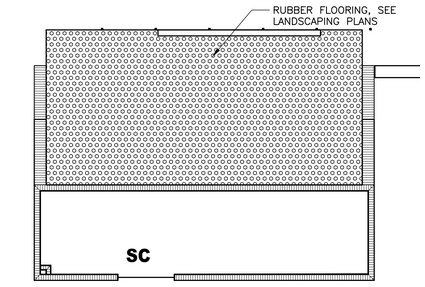
FINISH PATTERN LEGEND

LVT-1 LUXURY VINYL TILE	ERF-1 EPOXY RESIN FLAKE	BFC BROOM FINISH CONCRETE	ST SYNTHETIC TURF SEE LANDSCAPE
CPT-1 CARPET TILE	CPT-2 CARPET TILE	CPT-3 CARPET TILE	
SC SC-1 SEALED CONCRETE	PFT-1 MOSAIC FLOOR TILE	RF-1 SEE LANDSCAPE PLANS	



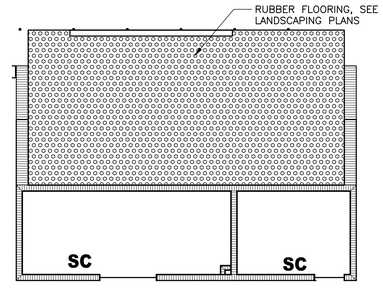
1 LOWER LEVEL PRESS BOX BUILDING FLOOR FINISH PLAN

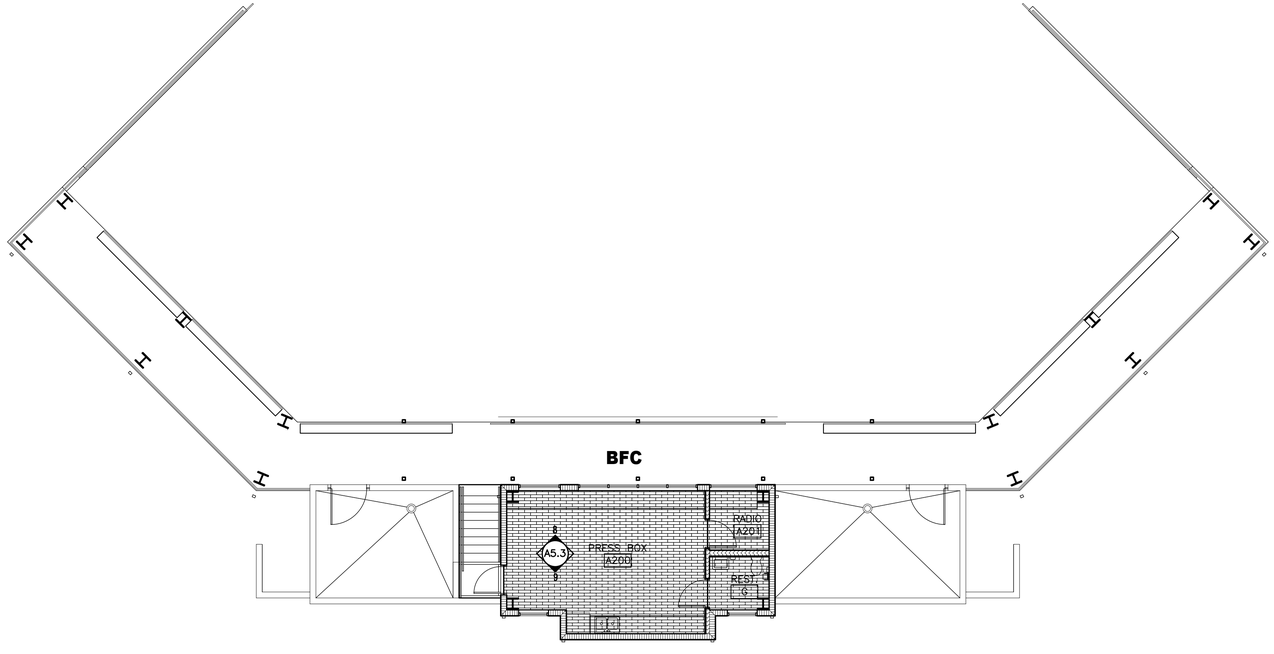
1/8" = 1'-0"



2 VISITOR DUGOUT FLOOR FINISH PLAN

1/8" = 1'-0"





3 UPPER LEVEL PRESS BOX BUILDING FLOOR FINISH PLAN

1/8" = 1'-0"

4 HOME DUGOUT FLOOR FINISH PLAN

1/8" = 1'-0"

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

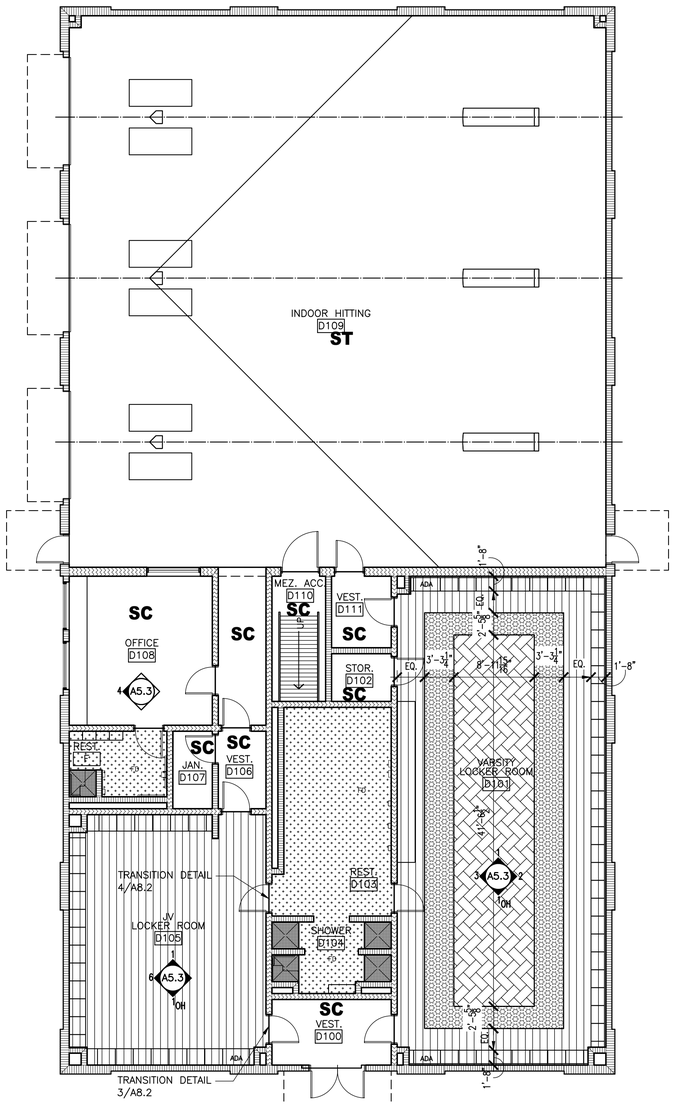
STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

SHEET TITLE:
BLEACHER / DUGOUT FLOOR FINISH PLANS

PROJ. MGR.: R.VERNON
DRAWN: B.LOGAN
hdr
DATE: MARCH 13, 2024
REVISIONS

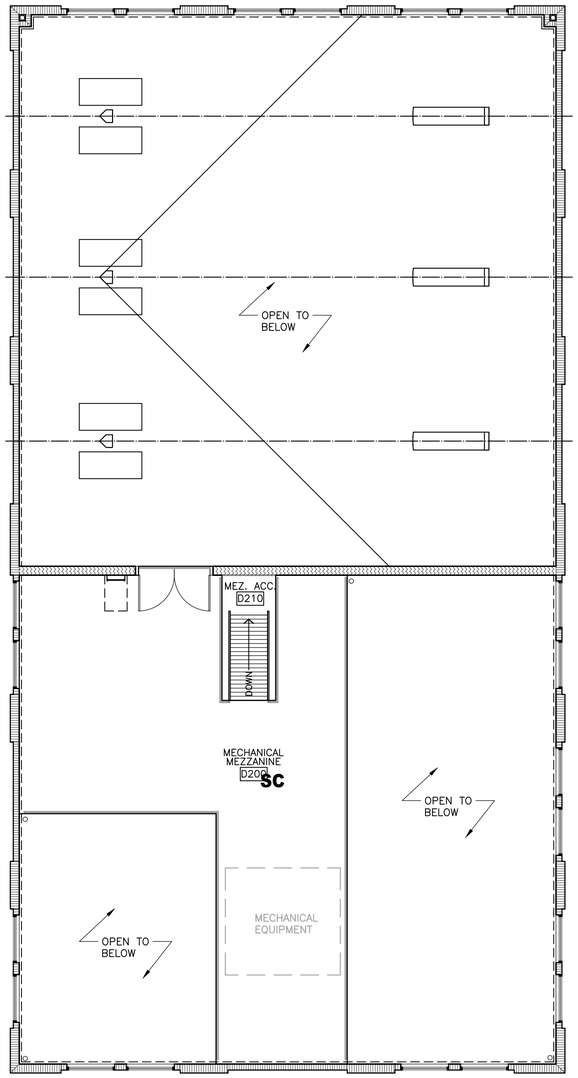
JOB NO. 23-72
SHEET NO:
A8.1
31 OF 33

0 1" 2"



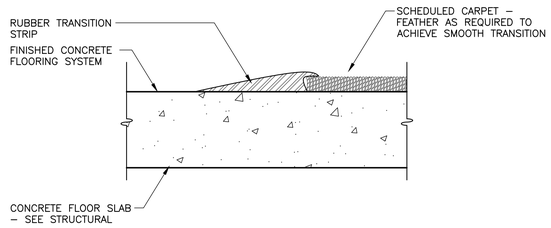
1 LOWER LEVEL LOCKER ROOM/ HITTING FACILITY FLOOR FINISH PLAN

1/8" = 1'-0"



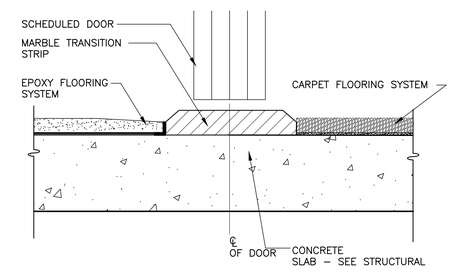
2 MECHANICAL MEZZANINE LOCKER ROOM/ HITTING FACILITY FLOOR FINISH PLAN

1/8" = 1'-0"



3 FLOOR TRANSITION DETAIL ©CARPET TO CONCRETE

NOT TO SCALE



4 FLOOR TRANSITION DETAIL ©CARPET TO EPOXY

NOT TO SCALE

FINISH PATTERN LEGEND

- LVT-1 LUXURY VINYL TILE
- ERF-1 EPOXY RESIN FLAKE
- BFC BROOM FINISH CONCRETE
- ST SYNTHETIC TURF SEE LANDSCAPE
- CPT-1 CARPET TILE
- CPT-2 CARPET TILE
- CPT-3 CARPET TILE
- SC-1 SEALED CONCRETE
- PFT-1 MOSAIC FLOOR TILE
- RF-1 SEE LANDSCAPE PLANS

FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	MILLWORK		WALLS				DOOR FRAME	CEILING/SOFFIT PAINT	NOTES
				FACE	TOP	NORTH	SOUTH	EAST	WEST			
FIRST FLOOR PRESSBOX												
A100	CONCESSION	SC	RB-1	PL-2	PL-2	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
A101	JANITOR	SC	NO BASE	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
A102	STORAGE	SC	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
A103	STORAGE	SC	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
A	RESTROOM	SC	NO BASE			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B	RESTROOM	SC	NO BASE	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
SECOND FLOOR PRESSBOX												
A200	PRESS BOX	SC	RB-1	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
A201	RADIO	SC	RB-1	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
G	RESTROOM	SC	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
HOME DUGOUT												
B100	DUGOUT	RF	NO BASE			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
B101	STORAGE	SC	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
VISITOR DUGOUT												
C100	DUGOUT	RF	NO BASE			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
C101	STORAGE	SC	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
HITTING FACILITY												
D100	VESTIBULE	SC	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
D101	VARSITY LOCKER ROOM	CPT-1/2/3	RB-1	PL-1	SS-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
D102	STORAGE	SC	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
D103	RESTROOM	EPF-1	ERB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
D104	SHOWER	ERF-1/PFT-1	ERB-1/PFB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
D105	JV LOCKER ROOM	CPT-1	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
D106	VESTIBULE	SC	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
D107	JANITORY	SC	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
D108	OFFICE	SC	RB-1	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
D109	INDOOR HITTING	ST	NO BASE			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
D110	MEZ. ACC	SC	NO BASE			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
D111	VESTIBULE	SC	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
MECHANICAL MEZZANINE												
E100	MECHANICAL MEZZANINE	SC	N/A			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		

BASE(RUBBER/CERAMIC/PORCELAIN/WOOD)

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
RB-1	MANNINGTON	COLOR: BLACK 701 4" BASE	SEE FINISH SCHEDULE
ERB-1	TORGINOL	MATCH ERF-1 INTEGRAL 4" BASE	TOILET ROOMS

EPOXY RESIN FLOOR

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
ERF-1	TORGINOL	COLOR: CUSTOM "HT BLEND" SIZE: 1/8" BLEND	TOILET ROOMS

SEALED CONCRETE

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
SC	SEE SPEC	SEE SPEC	AS INDICATED ON PLAN

CARPET

ITEM	MANUFACTURER	ITEM NUMBER/NAME	TYPE/LOCATION
CPT-1	INTERFACE	COLOR: GRAPHITE 106308 COLLECTION: SOURCE MATERIAL SIZE: 25CM X 1M INSTALLATION: ASHLAR	VARSITY LOCKER ROOM BORDER
CPT-2	INTERFACE	COLOR: POPPY 103801 COLLECTION: ON LINE SIZE: 25CM X 1M INSTALLATION: ASHLAR	VARSITY CENTER ACCENT BORDER
CPT-3	INTERFACE	COLOR: LIGHT RED 106290 COLLECTION: UPLOAD SIZE: 25CM X 1M INSTALLATION: ASHLAR	VARSITY CENTER FIELD

PLASTIC LAMINATE

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
PL-1	WILSONART	COLOR: 7993-38 NAME: FLORENCE WALNUT EDGEBAND: REHAU CP41009	CASEWORK TOPS/CABINETS
PL-2	WILSONART	COLOR: 4886 NAME: PEARL SOAPSTONE EDGEBAND: REHAU CP60109	CONCESSION/PRESSBOX COUNTERS & CABINETS

SOLID SURFACE

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
SS-1	BPI DURASEIN	COLOR: BLOSSOMING DM5005	VARSITY LOCKER MILLWORK COUNTER

PAINT

ITEM	MANUFACTURER	ITEM NUMBER/NAME	TYPE/LOCATION
PNT-1	SHERWIN WILLIAMS	AGREEABLE GRAY COLOR: SW 7029	GENERAL WALLS EPOXY AT WET AREAS
PNT-2	SHERWIN WILLIAMS	DORIAN GRAY COLOR: SW 7017	GENERAL TRIM EPOXY AT WET AREA
PNT-3	SHERWIN WILLIAMS	CEILING BRIGHT WHITE COLOR: SW 7007	SOFFITS

CERAMIC WALL TILE

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
CWT-1	DALTILE	COLLECTION: COLOR WHEEL LINEAR COLOR: ARCTIC WHITE 0190 SIZE: 3X12	SHOWER WALLS

PORCELAIN FLOOR TILE

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
PFT-1	DALTILE	COLLECTION: KEYSTONES MOSAICS COLOR: WHEAT BLEND DK21 SIZE: 1X1	SHOWER PAN FLOOR

FINISH ABBREVIATION LEGEND

APF	ACOUSTIC PANEL FABRIC	IC	IMPRINTED CONCRETE
CC	COATED CONCRETE	LVT	LUXURY VINYL TILE
CPT	CARPET	PL	PLASTIC LAMINATE
CR	CHAIR RAIL	PM	PANEL MOULDING
CWT	CERAMIC WALL TILE	PNT	PAINT
DS	DOOR STAIN	PT	PORCELAIN TILE
ERB	EPOXY RESIN BASE	PTB	PORCELAIN TILE BASE
ERF	EPOXY RESIN FLOOR	QT	QUARRY TILE
ES	ENGINEERED STONE	QTB	QUARRY TILE BASE
ESB	ENGINEERED STONE BASE	RB	RUBBER BASE
GYP	GYPSUM BOARD	RF	RUBBER FLOOR
		SC	SEALED CONCRETE
		STC	STAINED CONCRETE
		SS	SOLID SURFACE
		ST	STAIN
		TS	TACKABLE SURFACE
		VT	VINYL COMP. TILE
		WB	WOOD BASE
		WF	WOOD FLOORING
		WP	WOOD PANELING
		WV	WOOD VENEER

FINISH NOTES

- ALL WALLS TO BE PAINTED PNT -1 UNLESS NOTED OTHERWISE.
- ALL GYPSUM BOARD CEILINGS SHALL BE PAINTED PNT-3 UNLESS NOTED OTHERWISE
- ALL WALLS LOCATED IN WET AREAS SHALL HAVE EPOXY BASED PAINT
- ALL EXISTING PAINTED SURFACES, WALLS, DOOR FRAMES, EXISTING HOLLOW METAL DOORS, ETC. SHALL BE PREPPED AND REPAINTED.

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

SHEET TITLE:
LOCKER ROOM / HITTING FACILITY FLOOR FINISH PLANS

PROJ. MGR.: R.VERNON
DRAWN: B.LOGAN
hdr
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
A8.2
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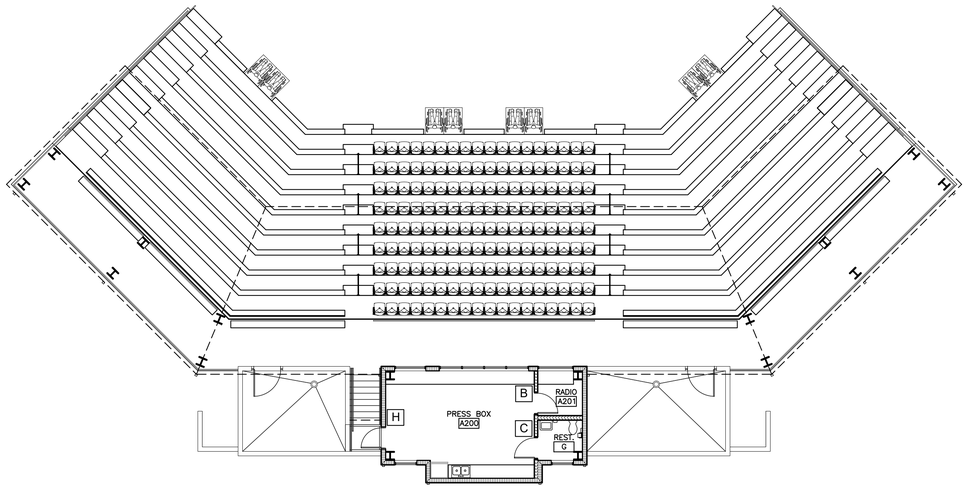
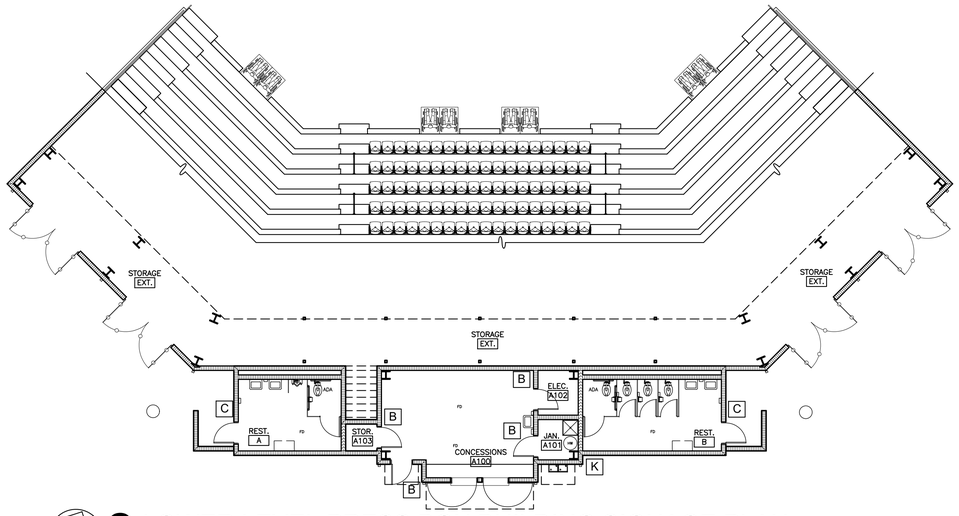


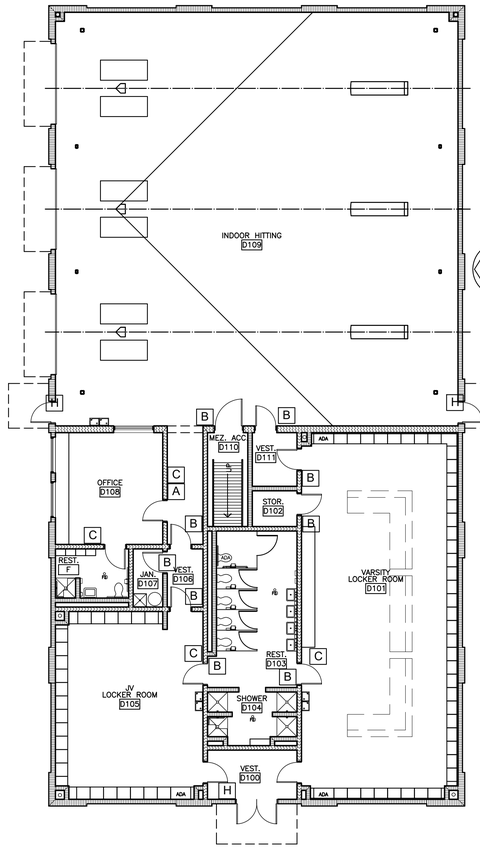
1 UPPER LEVEL PRESS BOX BUILDING SIGNAGE PLAN

3/32" = 1'-0"



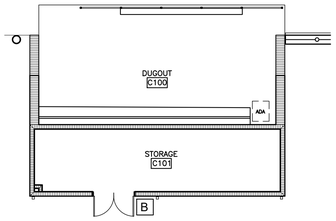
2 LOWER LEVEL PRESS BOX BUILDING SIGNAGE PLAN

3/32" = 1'-0"



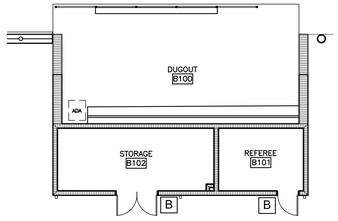
3 LOWER LEVEL LOCKER ROOM/ HITTING FACILITY SIGNAGE PLAN

3/32" = 1'-0"



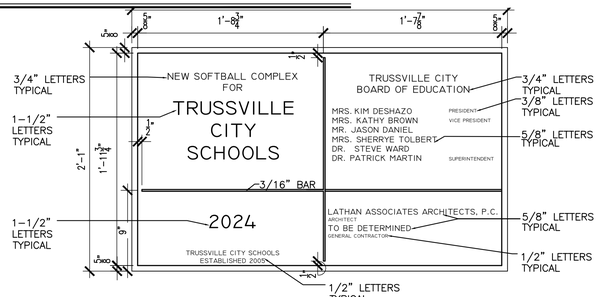
4 VISITOR DUGOUT FLOOR SIGNAGE PLAN

3/32" = 1'-0"



5 HOME DUGOUT FLOOR FINISH PLAN

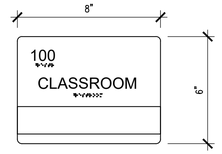
3/32" = 1'-0"



BUILDING PLAQUE (SIGN - TYPE K)

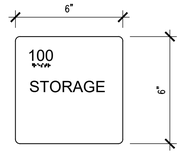
1-1/2" = 1'-0"

FINAL VERBIAGE SHALL BE VERIFIED PRIOR TO FABRICATION



INTERIOR SIGNAGE (SIGN TYPE - A)

SCALE: 3" = 1'-0"



INTERIOR SIGNAGE (SIGN TYPE - B)

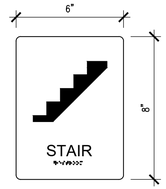
SCALE: 3" = 1'-0"

INTERIOR SIGNAGE (SIGN TYPE - C)

SCALE: 3" = 1'-0"

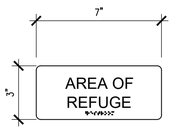
INTERIOR SIGNAGE (SIGN TYPE - D)

SCALE: 3" = 1'-0"



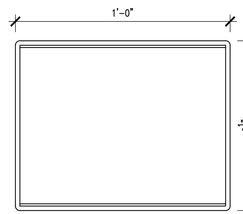
INTERIOR SIGNAGE (SIGN TYPE - E)

SCALE: 3" = 1'-0"



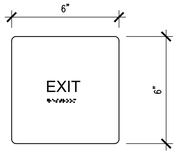
INTERIOR SIGNAGE (SIGN TYPE - F)

SCALE: 3" = 1'-0"



INTERIOR SIGNAGE (SIGN TYPE - G)

SCALE: 3" = 1'-0"



INTERIOR SIGNAGE (SIGN TYPE - H)

SCALE: 3" = 1'-0"

INTERIOR SIGNAGE (SIGN - TYPE J)

SCALE: 3" = 1'-0"

INTERIOR SIGNAGE LEGEND

A	SIGN WITH MESSAGE STRIP (OFFICES/CLASSROOM/INSTRUCTIONAL AREA)
B	ROOM NUMBER AND NAME (STORAGE, ELECTRICAL, ETC)
C	RESTROOM SIGNAGE WITH PICTOGRAM/BRAILLE
D	ELEVATOR SIGNAGE WITH PICTOGRAM/BRAILLE
E	STAIR SIGNAGE WITH PICTOGRAM/BRAILLE
F	AREA OF REFUGE SIGN
G	FRAMED CLEAR VIEW SIGNAGE (8.5X11)
H	TACTILE EXIT SIGN TO EXTERIOR (EXIT)
J	OCCUPANT LOAD SIGN (ASSEMBLY SPACES)
K	BUILDING DEDICATION PLAQUE

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STATE OF ALABAMA
No. 3365
RICK N. LATHAN
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SHEET TITLE:
SIGNAGE PLANS

PROJ. MGR.: R.VERNON
DRAWN: B.LOGAN
hdr
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
A9.1
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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 STEEL
SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (ANSI/AISC 360-16)

D. OPEN WEB STEEL JOISTS:
STANDARD SPECIFICATIONS AND LOAD TABLES FOR STEEL JOISTS AND JOIST GIRDERS, STEEL JOIST INSTITUTE, LATEST EDITION

E. STEEL DECK:
STEEL DECK INSTITUTE DESIGN MANUALS FOR COMPOSITE DECKS, NON-COMPOSITE DECKS, AND ROOF DECKS, LATEST EDITIONS

F. MASONRY
SPECIFICATIONS FOR MASONRY STRUCTURES (TMS 602-16).
BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 402-16).

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

G. 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.

OFFICES---50
BALCONIES, EXTERIOR---------------------------------------60
FLOOR (REDUCIBLE)--100
STAIRS & EXITWAYS--100
STORAGE--125
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:
ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)-----------114MPH
BASIC WIND SPEED (3-SECOND GUST)----------------------90MPH
WIND IMPORTANCE FACTOR (I)----------------------------1.00
WIND EXPOSURE CATEGORY-----------------------------------C
INTERNAL PRESSURE COEFFICIENTS
(CANOPY)-------- ---------- +/- 0.0
(ALL OTHER STRUCTURES)---- +/- 0.18
SEE TYPICAL DETAILS FOR COMPONENT AND CLADDING LOADS

B. SEISMIC LOADS:
OCCUPANCY CATEGORY III
SEISMIC IMPORTANCE FACTOR-----------------------------1.25
MAPPED SPECTRAL RESPONSE ACCELERATIONS:
SS---0.280
S1---0.101
SITE CLASS---D
SPECTRAL RESPONSE COEFFICIENTS:
SDS--0.294
SD1--0.161
SEISMIC DESIGN CATEGORY----------------------------------C

BASIC SEISMIC-FORCE-RESISTING SYSTEM: (CANOPY)
STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
DESIGN BASE SHEAR: ---------------------------------15KIPS
SEISMIC RESPONSE COEFFICIENT, Cs ---------------------0.101
RESPONSE MODIFICATION FACTOR----------------------------3.0
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

BASIC SEISMIC-FORCE-RESISTING SYSTEM: (ALL OTHER STRUCTURES)
INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
DESIGN BASE SHEAR: (DUGOUTS)--------------------------5KIPS
DESIGN BASE SHEAR: (HITTING HOUSE)-------------------41KIPS
DESIGN BASE SHEAR: (PRESS BOX)-----------------------17KIPS
SEISMIC RESPONSE COEFFICIENT, Cs ---------------------0.087
RESPONSE MODIFICATION FACTOR----------------------------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 OBSERVATION IS VISUAL OBSERVATION OF THE INPLACE 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.

2.10 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.

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

3.0 FOUNDATIONS

3.1 GEOTECHNICAL REPORT: FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT BY TERRACON, TITLED "HEWITT-TRUSSVILLE HIGH SCHOOL SOFTBALL COMPLEX PROJECT NO.E1235230" 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: 2000 PSF.

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 PROVIDED BY THE GEOTECHNICAL ENGINEER.

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 FINSH GRADE ON EXTERIOR AND TO UNDERSIDE OF SLAB ON INTERIOR. GRANULAR BACKFILL SUPPORTING A FOOTING SHALL BE COMPACTED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER OR HIS APPROVED REPRESENTATIVE. PROVIDE A 12" THICK CAP OF PROPERLY COMPACTED CRUSH AND RUN STONE BETWEEN THE FOOTING AND THE PROPERLY COMPACTED GRANULAR BACKFILL. EXTEND CRUSH AND RUN CAP TWO FEET BEYOND THE PERIMETER OF THE FOOTING OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

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

3.7 REINFORCING STEEL IN CONTINUOUS WALL FOOTINGS SHALL EXTEND THRU SPREAD FOOTINGS AT THE SAME ELEVATION AS WALL FOOTING. STEP WALL FOOING DOWN ON SPREAD FOOTING WHERE SPREAD FOOTING IS BELOW CONTINUOUS WALL FOOTING.

3.8 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 SPECIFIACTIONS FOR VAPOR RETARDER BENEATH SLABS ON GRADE.

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

3.10 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.

3.11 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
3500	NORMAL WT.	0.50	----	3" TO 5"	SLABS ON METAL DECK
4000	NORMAL WT.	0.45	4-6%	3" TO 5"	UNLESS NOTED

4.3 REINFORCING BARS: ASTM A615 GRADE 60.

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

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

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

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

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

4.9 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.

4.10 CONCRETE COVERAGE OF REINFORCEMENT, UNLESS NOTED:

FOOTINGS---------------------------------2" TOP & 3" BOTTOM & SIDES
PIERS, & PEDESTALS--------------------1-1/2" CLEAR OF TIES
FOUNDATION RETAINING WALLS----------------------------2" BOTH FACES
SLAB FACES NOT EXPOSED TO WEATHER OR EARTH---------------------3/4"
SLAB FACES EXPOSED TO WEATHER
#5 AND LESS---1-1/2"
#6 AND GREATER--2"

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

4.11 PEDESTAL AND WALL VERTICAL REINFORCING: DOWEL TO FOUNDATION WITH HOOKED BARS OF SAME SIZE AND SPACING AS VERTICAL REINFORCING.

4.12 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.

4.13 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.

4.14 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.

EARTH SUPPORTED SLABS SHALL BE CURED PER ACI REQUIREMENTS USING A MEMBRANE FORMING CURING/SEALING COMPOUND OR MOIST CURING PROCESS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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

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

WHERE CONTROL JOINTS TERMINATE AT EMBEDDED STEEL ELEMENTS, PROVIDE JOINT IN STEEL ELEMENT.

4.15 NO CONDUIT OR PIPE SHALL BE CAST IN THE SLAB ON GRADE WITHOUT THE WRITTEN APPROVAL OF STRUCTURAL DESIGN GROUP.

5.0 STRUCTURAL STEEL

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

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

5.3 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.

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

5.5 STRUCTURAL STEEL PIPE: ASTM A53, GRADE B.

5.6 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.

5.7 THREADED AND PLAIN STEEL RODS: ASTM A36

5.8 ANCHOR RODS: ASTM F1554 GRADE 36 ANCHOR AND HEAVY HEX NUT OR ASTM F1554 GRADE 55 ANCHOR AND HEAVY HEX NUT WITH SUPPLEMENTARY REQUIREMENT S1, UNLESS OTHERWISE INDICATED.

5.9 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. USE SNUG TIGHT BEARING CONNECTIONS FOR ALL BOLTED CONNECTIONS.

C. 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.

D. 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.

E. 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.

5.10 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.

5.11 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.

5.12 WHERE STEEL BEAMS ARE CONTINOUS OVER COLUMNS, PROVIDE WEB STIFFENER PLATES EACH SIDE OF BEAM WEB, OF THICKNESS EQUAL TO BEAM FLANGE THICKNESS, LOCATED IN ALIGNMENT WITH COLUMN WEB OR FLANGES OR CENTER LINE OF STEEL PIPE COLUMN.

5.13 STEEL STAIRS AND ASSOCIATED EMBEDS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED TO RESIST THE PROJECT DESIGN LOADS INDICATED ABOVE, BY THE CONTRACTOR, UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. STAIRS SHALL BE DESIGNED IN ACCORDANCE WITH THE NAAMM METAL STAIR MANUAL AND AISC, AND AS LISTED BELOW. CALCULATIONS SHALL BEAR THE SEAL OF THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE INCLUDED WITH THE STAIR SHOP DRAWINGS. STAIR SHOP DRAWINGS THAT DO NOT CONTAIN DESIGN CALCULATIONS (MEMBERS, CONNECTIONS, ANCHORAGE, ETC.) WILL BE RETURNED UNCHECKED AS AN INCOMPLETE SUBMITTAL.

A. STAIR FRAMING SHALL BE CAPABLE OF WITHSTANDING STRESSES RESULTING FROM RAILING LOADS IN ADDITION TO LOADS SPECIFIED ABOVE.
B. LIMIT DEFLECTION OF TREADS, PLATFORMS, AND FRAMING MEMBERS TO L/360 OR 1/4 INCH, WHICHEVER IS LESS.
C. DESIGN OF STAIR FRAMING SHALL ALSO COMPLY WITH AISC'S "STEEL DESIGN GUIDE SERIES 11; FLOOR VIBRATIONS DUE TO HUMAN ACTIVITY."

5.14 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.

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

6.0 STEEL JOISTS

6.1 DESIGN, FABRICATE, AND ERECT STEEL JOISTS IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE (SJI).

6.2 PROVIDE A MINIMUM END BEARING ON STEEL SUPPORTS AS REQUIRED BY SJI. STAGGER THE ENDS OF JOIST IF NECESSARY. GENERAL CONTRACTOR COORDINATE METAL DECK SPLICE LOCATION TO CENTER OVER JOIST.

6.3 PROVIDE HORIZONTAL AND DIAGONAL BRIDGING IN ACCORDANCE WITH SJI TO PROVIDE ADEQUATE JOIST CHORD BRACING.

6.4 AT JOIST PARALLEL TO MASONRY WALL, WELD EACH BRIDGING ROW TOP AND BOTTOM TO AN ANGLE 3X3X3/16X0'-6". ANCHOR ANGLE WITH TWO 3/8" DIAMETER SLEEVE ANCHORS WITH TWO-INCH EMBEDMENT INTO WALL.

6.5 AT JOISTS PARALLEL TO BEAMS, ANCHOR BRIDGING ROWS BY WELDING TO BEAMS.

6.6 DESIGN ROOF JOISTS TO RESIST THE WIND UPLIFT LOADING FROM THE COMPONENTS AND CLADDING WIND LOAD TABLE PROVIDED IN THE TYPICAL DETAILS.

6.7 IN ADDITION TO THE LOADS INDICATED IN THE STRUCTURAL DRAWINGS, JOISTS SHALL BE DESIGNED FOR CONCENTRATED LOADS IN EXCESS OF 100 LB HUNG FROM OR SUPPORTED BY JOISTS. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR LOADING INFORMATION AND LOCATIONS. LOADING AS REQUIRED BY OTHER SUBCONTRACTORS, SUCH AS FIRE PROTECTION, SHALL BE COORDINATED BY THE GENERAL CONTRACTOR.

6.8 JOIST SEATS FOR JOIST BEARING ON BEAMS OR WALLS IN LINE WITH LATERAL FRAMES OR SHEAR WALLS SHALL BE DESIGNED FOR A ROLLOVER FORCE EQUAL TO 30% OF THE DEAD LOAD OF THE JOIST REACTION, UNLESS NOTED OTHERWISE. IN NO CASE SHALL THE ROLLOVER FORCE BE LESS THAN 200 PLF PERPENDICULAR TO THE JOIST SEAT.

6.9 JOISTS AND JOIST SEATS SHALL BE DESIGNED FOR AXIAL LOADS WHERE INDICATED IN THE STRUCTURAL DRAWINGS.

6.10 DESIGN CALCULATIONS SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT AND STRUCTURAL ENGINEER FOR JOISTS WITH CANTILEVERS OR CONCENTRATED LOADS AND FOR JOIST SIZES FOR WHICH STANDARD SJI LOAD TABLES ARE NOT APPLICABLE. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. SHOP DRAWINGS CONTAINING JOISTS FOR WHICH CALCULATIONS HAVE NOT BEEN RECEIVED WILL BE RETURNED UNCHECKED AS AN INCOMPLETE SUBMITTAL.

6.11 LIGHT GAUGE METAL FRAMING, SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS, PIPING OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE JOIST BRIDGING.

7.0 STEEL DECK

7.1 DECK PROPERTIES AND ATTACHMENTS SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE (SDI).

7.2 DECK SHALL BE CONTINUOUS OVER THREE OR MORE SPANS. WHERE DECK SPANS LESS THAN THREE SPANS ARE REQUIRED, THEY SHOULD BE CLEARLY MARKED ON THE SHOP DRAWINGS.

7.3 DESIGN ROOF DECK TO RESIST THE WIND UPLIFT LOADING FROM THE COMPONENTS AND CLADDING WIND LOAD TABLE PROVIDED IN THE TYPICAL DETAILS.

7.4 STEEL ROOF DECK SHALL BE CONNECTED TO SUPPORTING STRUCTURE WITH 5/8" DIAMETER PUDDLE WELDS [WITH WELD WASHERS FOR DECKS THINNER THAN 22 GAGE] IN A 36/4 PATTERN, SEE TYPICAL DETAILS AND/OR PLAN/SECTION NOTES. SIDE LAP FASTENERS SHALL BE #10 TEK SCREWS. PROVIDE THREE SIDELAP FASTENER PER SPAN. ROOF DECK GALVANIZING DAMAGED BY WELDING AND WELD ITSELF SHALL BE PAINTED WITH A COLD GALVANIZING PAINT.

7.5 ROOF DECK: WIDE RIB TYPE "WR", STEEL ROOF DECK, 20 GAGE, 1-1/2" DEEP, GALVANIZED. WIDE RIB TYPE "WR", STEEL ROOF DECK, 22 GAGE, 3" DEEP, GALVANIZED. SEE PLAN AND SECTIONS FOR LOCATIONS.

7.6 FORM DECK: 3 7/16" THICK CONCRETE SLAB ON NON-COMPOSITE STEEL FORM DECK, 28 GAGE, 9/16" DEEP WITH 6X6 W2.1/W2.1 WWR AT MID DEPTH OF SLAB. DECK SHALL BE CONNECTED TO SUPPORTING STRUCTURE WITH 5/8" DIAMETER PUDDLE WELDS [WITH WELD WASHERS FOR DECKS THINNER THAN 22 GAGE] OR #12 TEK SCREWS SPACED AT 10" ON CENTER.

7.7 COMPOSITE FLOOR DECK:

A. 3 1/2" THICK CONCRETE SLAB ON STEEL COMPOSITE FLOOR DECK. DECK SHALL CONFORM TO 2" VLI-36, 22 GAGE, GALVANIZED, AS MANUFACTURED BY VULCRAFT OR APPROVED EQUAL.

B. REINFORCE SLAB WITH 6X6 W2.1/W2.1 WWR SUPPORTED BY "UPPER CONTINUOUS HIGH CHAIRS" OVER BEAMS AND GIRDERS TO MAINTAIN 1" COVERAGE OF WWR. CONTRACTOR OPTION TO USE SYNTHETHIC FIBERS CONSISTING OF PROPEX FIBERMESH 650 AT 4 LBS/CUBIC YARD OF CONCRETE IN LIEU OF WWR.

C. DECK SHALL BE WELDED TO SUPPORTS WITH A 5/8" DIAMETER PUDDLE WELD OR EQUIVALENT AT ALL EDGE RIBS PLUS A SUFFICIENT NUMBER OF INTERIOR RIBS TO PROVIDE A MAXIMUM AVERAGE SPACING OF 12 INCHES ON CENTER. THE MAXIMUM SPACING BETWEEN ADJACENT POINTS OF ATTACHMENT SHALL NOT EXCEED 16 INCHES.

D. DECK UNITS WITH SPANS GREATER THAN FIVE FEET SHALL HAVE SIDE LAPS AND PERIMETER EDGES FASTENED AT MIDSPAN OR 36" O.C. - WHICHEVER IS SMALLER.

7.8 CONTRACTOR OPTION TO USE HILTI S-SLC 02 M HWH IN LIEU OF #10 SIDELAP SCREWS AND HILTI FASTENERS IN LIEU OF #12 TEK SCREWS AS FOLLOWS: HILTI S-MD 12-24x1-5/8 HWH5 SCREWS FOR STUDS, JOISTS AND BEAMS WITH 16 GA ≤ tf ≤ 1/4"; HILTI X-HSN 24 PINS FOR JOISTS AND BEAMS WITH 1/8" ≤ tf ≤ 3/8"; & HILTI X-ENP 19 L15 PINS FOR BEAMS WITH tf ≥ 1/4".

7.9 WELDED CONNECTIONS: E60XX ELECTRODES. WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.3, THE STRUCTURAL WELDING CODE - SHEET STEEL.

7.10 NO CONDUIT OR PIPE SHALL BE CAST IN THE SLAB WITHOUT THE WRITTEN APPROVAL OF STRUCTURAL DESIGN GROUP. CONDUIT SHALL NOT BE PLACED IN SLABS REQUIRING A FIRE RESISTANCE RATING OR UL RATING.

CONDUIT AND PIPES SHALL HAVE A MINIMUM OF 18" CLEAR BETWEEN THE CONDUIT/PIPES.

OUTER LIMITS OF CONDUIT, CROSSING CONDUIT, AND COUPLERS SHALL BE T/3 MAXIMUM AND LOCATED WITHIN THE MIDDLE THIRD OF THE SLAB (WHERE T IS THE SLAB THICKNESS).

THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT AND ELECTRICAL ENGINEER AS REQUIRED TO ENSURE PANEL LAYOUTS AND ELECTRICAL ROOMS ARE LARGE ENOUGH TO ACCOMMODATE CONDUIT CLEARANCE AND SPACING REQUIREMENTS WHERE CONDUITS TURN UP AND OUT OF THE SLAB.

CONDUIT SHALL NOT BE PLACED WITHIN 24" OF THE EDGE OF A BEAM.

CONDUIT SHALL BE SO FABRICATED AND INSTALLED THAT CUTTING, BENDING OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION WILL NOT BE REQUIRED.

ADDITIONAL SLAB REINFORCING CONSISTING OF #3@10, #4@18 OR 4X4 W4.0/W4.0 WWR ABOVE AND BELOW THE CONDUIT, EXTENDING 2'-0" BEYOND THE CONDUIT EACH WAY, SHALL BE PLACED AT CONDUIT LOCATIONS, IN ADDITION TO THE SCHEDULED SLAB REINFORCING.

7.11 LIGHT GAUGE METAL FRAMING, SUSPENDED CEILINGS, LIGHT FIXTURES AND DUCTS OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE STEEL ROOF DECK.

7.12 NAILABLE SUBSTRATE SHALL BE FASTENED TO STEEL ROOF DECK WITH #8 ROUND HEAD, ZINC PLATED SELF-TAPPING SCREWS AT 12" O.C. EACH WAY. AT CORNER ZONES, ATTACH SCREWS AT 6" O.C. - SEE TYPICAL DETAILS FOR CORNER ZONES.

8.0 MASONRY

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

8.2 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.

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

8.4 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.

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

8.6 GROUT COMPRESSIVE STRENGTH SHALL BE 2500 PSI AT 28 DAYS. GROUT SHALL ADDITIONALLY COMPLY WITH TABLE 7 OF ACI 530.1/ASCE 6/TMS 602 FOR DIMENSIONS OF GROUT SPACES AND POUR HEIGHTS. COURSE GROUT SHALL BE USED WHERE POSSIBLE.

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

8.8 ALL MASONRY SHALL BE STACK BOND, UNLESS NOTED.

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

8.10 MASONRY REINFORCING LAP SPLICE LENGTHS PER SCHEDULE. SEE MASONRY LAP SPLICE LENGTHS TYPICAL DETAIL.

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

SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number 23-256

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ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER H. CRAIG WINN
H. Craig Winn, P.E.
3-13-2024

SHEET TITLE:
GENERAL NOTES

PROJ. MGR.:	HCW
DRAWN:	SPH
DATE:	MARCH 13, 2024
REVISIONS	

JOB NO. 23-72

SHEET NO:
S1.0

0 1" 2"

GENERAL NOTES CONTINUED

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.

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

8.13 MASONRY CONTROL JOINTS SHALL BE AS INDICATED ON THE ARCHITECTURAL DRAWINGS. FOR ADDITIONAL INFORMATION ON CONTROL JOINTS SEE TYPICAL DETAILS.

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

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

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

8.17 PROVIDE WALL TOP SUPPORT AT 8'-0" OC FOR ALL INTERIOR NON-LOAD BEARING CMU WALLS WHERE CONTINUOUS WALL SPAN BETWEEN PERPENDICULAR BRACING WALLS EXCEEDS 20'-0".

8.18 GROUT SHALL COMPLY WITH TABLE 7 OF ACI 530.1/ASCE 6/TMS 602 FOR DIMENSIONS OF GROUT SPACES AND POUR HEIGHTS.

8.19 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".

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

8.21 PROVIDE GROUT FILLED U-BLOCK AT TOP OF ALL CMU WALLS REINFORCED WITH 2 # 4 BARS CONTINUOUS, UNLESS NOTED.

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

8.23 WHERE TOP OF FOOTING SUPPORTING MASONRY WALLS IS MORE THAN 2'-8" BELOW FINISH FLOOR PROVIDE #6@16, UP TO THE FINISH FLOOR ELEVATION, IN ADDITION TO SPECIFIED REINFORCEMENT.

8.24 CONDUITS OR CONDENSATE DRAIN LINES UP TO 2" IN OUTSIDE DIAMETER MAY EXTEND CONT THRU MASONRY BOND BEAMS. COORDINATE WITH MECHANICAL OR ELECTRICAL DRAWINGS FOR SIZE AND LOCATION. DO NOT INTERUPT CONTINUOUS REINFORCING STEEL IN PLACEMENT OF DRAIN OR CONDUIT LINES.

8.25 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 MASONRY CONTRACTORS ASSOCIATION OF AMERICA (MCAA) SHOULD BE USED IN CONJUNCTION WITH THE "STANDARD PRACTICE".

8.26 CONTROL JOINTS IN CMU WALLS SHALL BE DISCONTINUOUS AT MASONRY BOND BEAMS. BOND BEAM REINFORCING SHALL EXTEND CONTINUOUS WITH 48 BAR DIAMETER LAPS AND CORNER BARS. SEE TYPICAL DETAILS FOR ADDITIONAL INFORMATION.

9.0 WOOD CONSTRUCTION

9.1 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).

9.2 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.

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

9.4 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".

9.5 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.

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

9.7 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.

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

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

9.10 AT A MINIMUM, ALL WOOD FRAMING CONNECTIONS TO COMPLY WITH "TABLE 2304.10.2 - FASTENING SCHEDULE" OF THE INTERNATIONAL BUILDING CODE.

9.11 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.

9.12 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)

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

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

9.15 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.

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

9.17 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.

9.18 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.

9.19 ROOF SHEATHING: 3/4" 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.

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

10.0 POST-INSTALLED ANCHORS AND REINFORCING

10.1 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.

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

10.3 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)
2. SIMPSON STRONG-TIE "STRONG-BOLT 2" (ICC-ES ESR-3037)
3. SIMPSON STRONG-TIE "TORQ-CUT" (ICC-ES ESR-2705)
4. SIMPSON STRONG-TIE "TITEN-HD ROD HANGER" (ICC-ES ESR-2713)
5. HILTI KWIK HUS-EZ AND KWIK HUS EZ-I SCREW ANCHORS (ICC ESR-3027)
6. HILTI KWIK BOLT-TZ EXPANSION ANCHORS (ICC ESR-1917)
7. HILTI KWIK BOLT 3 EXPANSION ANCHORS (UNCRACKED CONCRETE ONLY) (ICC ESR-2302)
8. HILTI HDA UNDERCUT ANCHORS (ICC ESR 1546)
9. HILTI HSL-3 EXPANSION ANCHORS (ICC ESR 1545)
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 ATOMIC+ UNDERCUT (ICC-ES ESR-3067)
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. HILTI KWIK-X DUAL ACTION ANCHOR SAFESET SYSTEM WITH KHC CAPSULE ADHESIVE AND KWIK-HUS EZ (ICC ESR-5065)
7. 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
8. 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 "POWER DRIVEN FASTENERS", POWDER ACTUATED (ICC-ES-ESR 2024)
5. DEWALT TRAK-IT C5, GAS ACTUATED (ICC-ES-ESR 3275)

10.4 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. 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)

10.5 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)

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

10.7 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.

10.8 INSTALL ANCHORS PER THE MANUFACTURER PRINTED INSTRUCTIONS (MPII), OR AS INCLUDED IN THE ANCHOR PACKAGING.

10.9 OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE MANUFACTURER INSTRUCTIONS.

10.10 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.

10.11 THE CONTRACTOR SHALL COORDINATE WITH THE OWNERS SPECIAL INSPECTION AGENCY FOR CONTINUOUS SPECIAL INSPECTION OF ADHESIVE ANCHORS AND PERIODIC INSPECTION OF MECHANICAL ANCHORS, SEE SPECIAL INSPECTION SCHEDULE FOR ADDITIONAL INFORMATION.

10.12 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.

10.13 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 HILTI FERROSCAN, GPR, X-RAY, CHIPPING OR OTHER MEANS.

11.0 INSPECTIONS

11.1 OWNER SHALL RETAIN THE SERVICES OF INDEPENDENT AGENCIES TO PERFORM THE CONSTRUCTION MATERIAL TESTING AND CODE REQUIRED SPECIAL INSPECTIONS, AS CONSTRUCTION PROGRESSES, FORWARD COPIES OF INSPECTION REPORTS TO STRUCTURAL ENGINEER FOR REVIEW. SDG CANNOT ISSUE A CERTIFICATE OF SATISFACTORY COMPLETION WITHOUT REVIEWING THESE REPORTS AND FINAL CERTIFICATES ISSUED BY EACH OF THE INDEPENDENT AGENCIES.

11.2 STRUCTURAL OBSERVATION BY SDG IS VISUAL OBSERVATION OF THE IN PLACE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED STRUCTURAL PORTIONS OF THE 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 AND CONSTRUCTION DOCUMENTS.

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

12.0 SHOP DRAWINGS (SUBMITTALS)

12.1 THE GENERAL CONTRACTOR SHALL SUBMIT FOR REVIEW AN ELECTRONIC SET OF DESIGN CALCULATIONS FOR ITEMS LISTED BELOW; CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED:

A. STRUCTURAL STEEL BEAM CONNECTION DESIGN
B. STEEL STAIR FRAMING AND CONNECTIONS DESIGN
C. ARCHITECTURAL PRECAST (SUBMIT FOR RECORD ONLY)
D. FORMWORK AND SHORING (SUBMIT FOR RECORD ONLY)
E. PRECAST CONCRETE HOLLOW CORE SLABS
F. AUTOCLAVED AERATED CONCRETE (AAC) PANELS
G. COLD-FORMED STEEL WALL PANEL FRAMING
H. COLD-FORMED STEEL FRAMING
I. COLD-FORMED STEEL ROOF TRUSSES
J. FLOOR AND ROOF WOOD TRUSSES

12.2 SUBMIT ALL SHOP DRAWINGS ELECTRONICALLY. ELECTRONIC COPIES WILL BE RETURNED TO THE ARCHITECT. REPRODUCTIONS REQUIRED BY THE CONTRACTOR ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD BE MADE AFTER THE ELECTRONIC COPIES ARE RETURNED.

12.3 ALL SHOP DRAWINGS SHALL BE ACCOMPANIED BY A PROPERLY COMPLETED SUBMITTAL CHECKLIST, WHERE REQUIRED BY THE RELEVANT SPECIFICATION SECTION.

12.4 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.

12.5 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.

12.6 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. WHERE SUBMITTAL CHECKLISTS ARE REQUIRED BY THE RELEVANT SPECIFICATION, THE AFOREMENTIONED INFORMATION MUST BE INDICATED ON THE SUBMITTAL CHECKLIST IN ACCORDANCE WITH THE RELEVANT SPECIFICATION. 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, COVER SHEET, OR CHECKLIST 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.

12.7 SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS MUST BE SUBMITTED BY THE GENERAL CONTACTOR AND REVIEWED BY THE S.E.R. SHOULD THE OWNER OR CONTRACTOR FAIL TO OBTAIN THE S.E.R'S REVIEW OF THE SHOP DRAWINGS, THE S.E.R. WILL NOT ACCEPT RESPONSIBILITY FOR THE DESIGN AND CERTIFICATION OF THIS PROJECT. PRIOR TO SUBMISSION, THE CONTRACTOR SHALL REVIEW SHOP DRAWINGS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. SHOP DRAWINGS SHALL NOT BE PRODUCED PRIOR TO FINAL CONSTRUCTION SET.

12.8 DO NOT FABRICATE PRIOR TO SHOP DRAWING'S REVIEW.

12.9 ENGINEERING DESIGN AND SHOP DRAWINGS FOR FLOOR AND ROOF TRUSS SYSTEMS ALONG WITH LAYOUT PLANS ARE REQUIRED TO BE SUBMITTED TO THE BUILDING OFFICIAL FOR REVIEW PRIOR TO CONSTRUCTION.

13.0 PREFABRICATED CANOPY

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

13.2 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.

13.3 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.

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

13.5 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.

SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5200
fax 205-824-5280
Job Number 23-256

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ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER H. CRAIG WINN
H. Craig Winn, P.E.
3-13-2024

SHEET TITLE:
GENERAL NOTES CONTINUED

PROJ. MGR.:	HCW
DRAWN:	SPH
DATE:	MARCH 13, 2024
REVISIONS	

JOB NO. 23-72

SHEET NO:
S1.1

2 OF 19

0 1" 2"

SDG
STRUCTURAL DESIGN GROUP
700 Century Park South, Suite 114
Birmingham, AL 35226
tel 205-824-5200
fax 205-824-5280
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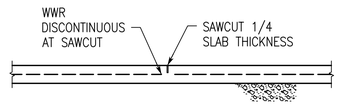
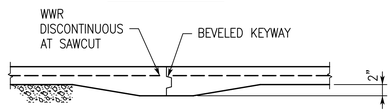
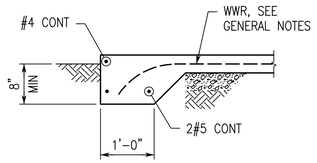


SAWED JOINT

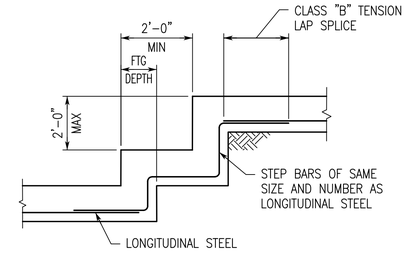


KEYED JOINT

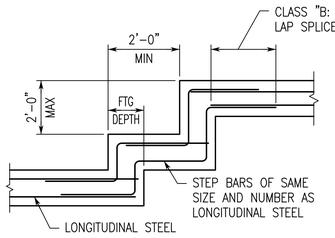
SLAB CONTROL JOINT DETAILS
TYPICAL
JOINT TYPE IS OPTIONAL



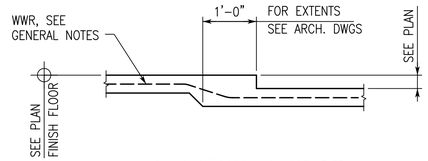
SLAB EDGE DETAIL
TYPICAL



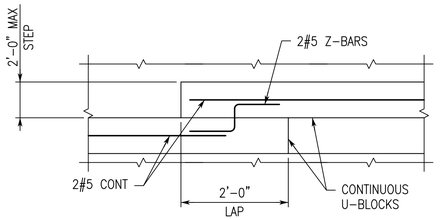
FOOTING STEP DETAIL
TYPICAL



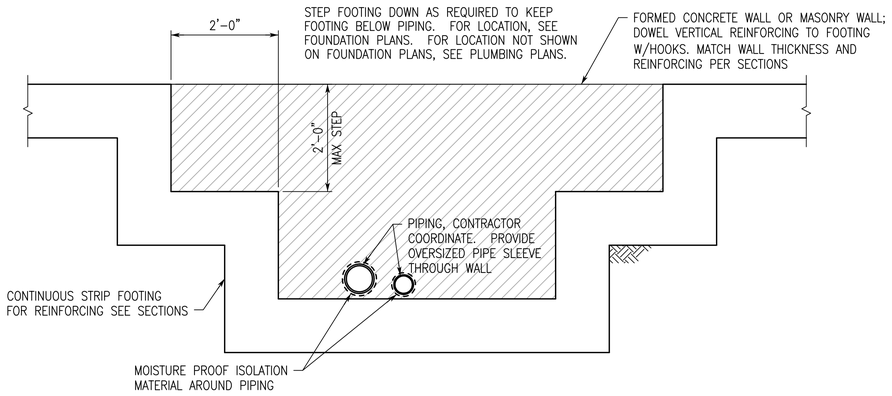
FOOTING STEP DETAIL
TYPICAL



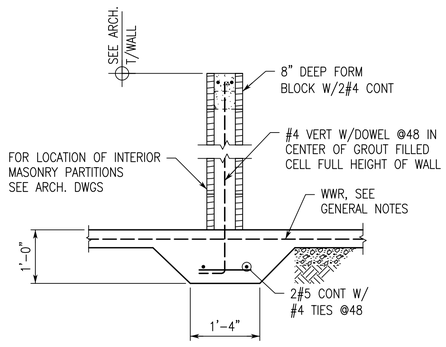
DEPRESSED SLAB ON GRADE DETAIL
TYPICAL



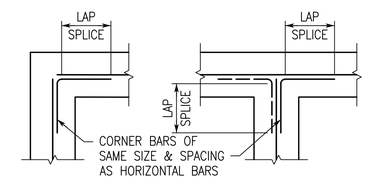
MASONRY BOND BEAM STEP DETAIL
TYPICAL



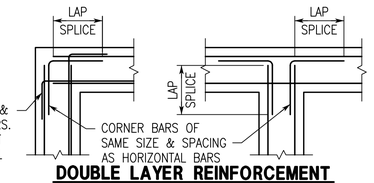
FOOTING/FOUNDATION WALL AT PIPING
TYPICAL



THICKENED SLAB ON GRADE DETAIL
TYPICAL



SINGLE LAYER REINFORCEMENT



DOUBLE LAYER REINFORCEMENT

DOWEL BARS OF SAME SIZE & SPACING AS HORIZONTAL BARS. LAP 48 BAR DIAMETERS PAST INTERSECTION OF HORIZONTAL BARS

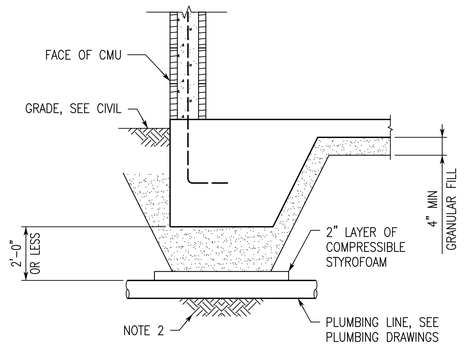
NOTE: ALL LAP SPLICES CLASS "B" TENSION

FOOTING, SLAB OR WALL CORNER REINFORCING DETAIL
TYPICAL

TENSION LAP SPLICE LENGTHS

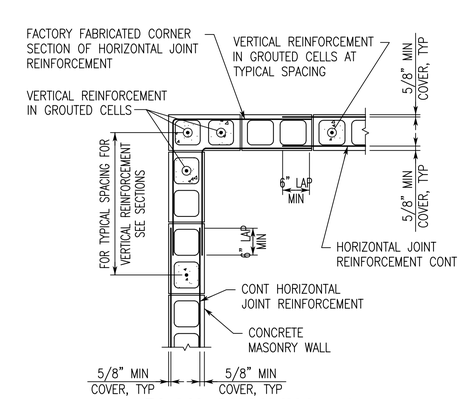
BAR SIZE	f_C= 3000 PSI			
	TOP BARS		OTHER BARS	
	A	B	A	B
#3	22"	28"	17"	22"
#4	29"	37"	22"	29"
#5	36"	47"	28"	36"
#6	43"	56"	33"	43"
#7	63"	81"	48"	63"

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

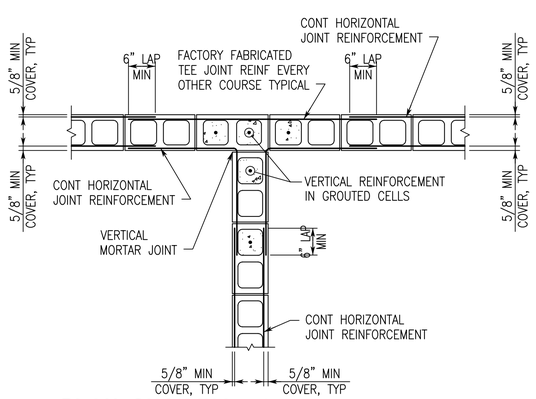


NOTES:
1. DO NOT RUN PLUMBING LINE BELOW AND PARALLEL TO FOOTING. OFFSET PARALLEL PLUMBING LINE MINIMUM 1'-0" BEYOND EDGE OF FOOTING.
2. SOIL UNDER UTILITY TRENCHES SHALL BE COMPACTED AS REQUIRED TO PROVIDE ALLOWABLE BEARING PRESSURE NOTED IN GENERAL NOTES.
3. IF A PLUMBING LINE IS REQUIRED TO EXTEND VERTICALLY THROUGH THE FOOTING, CONTRACTOR TO PROVIDE A PVC SLEEVE (1" LARGER IN DIAMETER THAN PLUMBING LINE) TO ALLOW FOR FOOTING MOVEMENT.

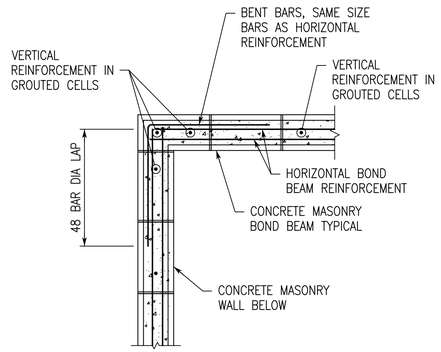
PLUMBING LINE BELOW FOOTING (IF LESS THAN 2'-0")
TYPICAL



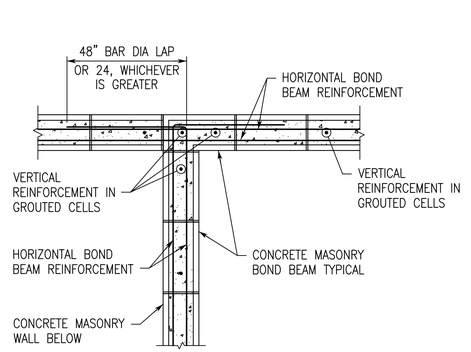
PLAN SHOWING JOINT REINFORCEMENT AT WALL CORNER
TYPICAL



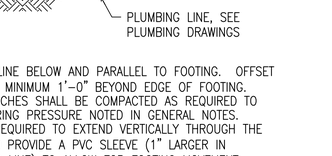
PLAN SHOWING JOINT REINFORCING AT STRUCTURAL WALL INTERSECTION
TYPICAL



PLAN SHOWING BOND BEAM REINFORCEMENT AT WALL CORNER
TYPICAL



PLAN SHOWING BOND BEAM AT STRUCTURAL WALL INTERSECTION
TYPICAL



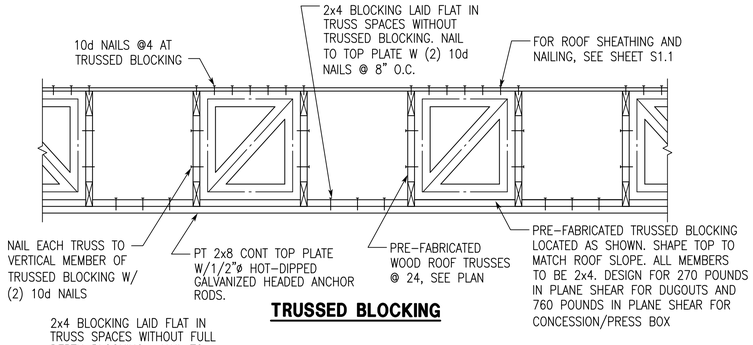
SHEET TITLE:
TYPICAL DETAILS

PROJ. MGR.:	HCW
DRAWN:	SPH
DATE:	MARCH 13, 2024
REVISIONS	

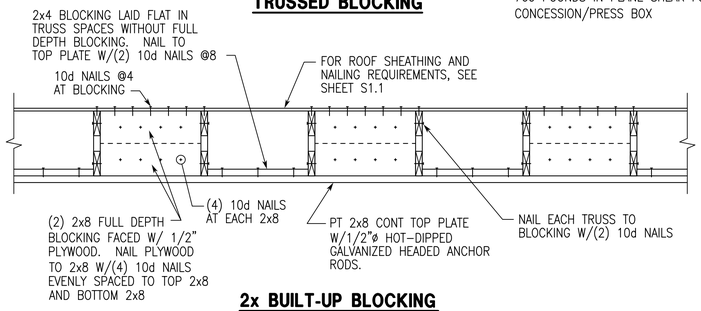
JOB NO. 23-72

SHEET NO:
S1.2
3 OF 19

SDG
STRUCTURAL DESIGN GROUP
700 Century Park South, Suite 114
Birmingham, AL 35226
tel 205-824-5300
fax 205-824-5280
Job Number 23-256



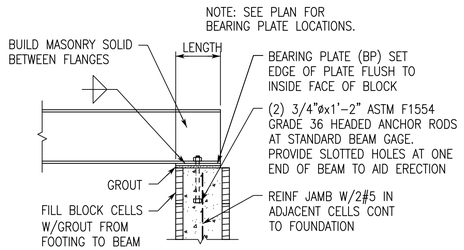
TRUSSED BLOCKING



2x BUILT-UP BLOCKING

TRUSS BLOCKING AT EXTERIOR WALL
TYPICAL

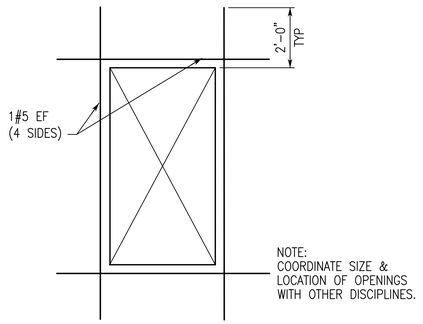
NOTE:
CONTRACTORS OPTION TO USE EITHER TRUSSED BLOCKING OR 2x BUILTUP BLOCKING AT AREAS WHERE TRUSS HEEL HEIGHT EXCEEDS THAT WHICH TYPICAL 2x SOLID DEPTH BLOCKING IS PRACTICAL.



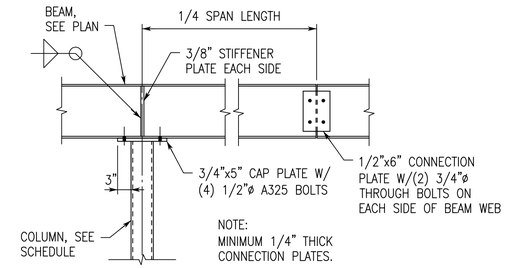
BEARING PLATE SCHEDULE:

	THICKNESS	WIDTH	LENGTH
BP1	3/4"	10"	7 1/2"

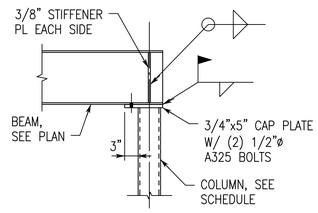
BEAM BEARING DETAIL
TYPICAL



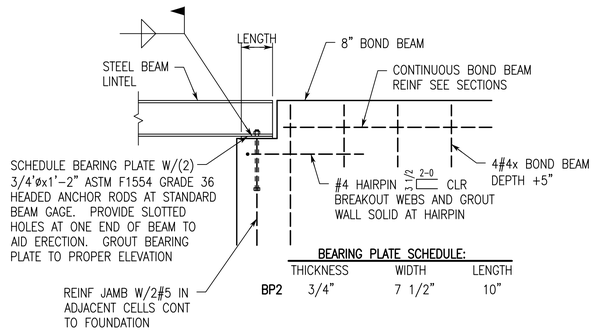
WALL OPENING REINFORCMENT DETAIL
TYPICAL



COLUMN CAP AND BEAM SPLICE DETAIL
TYPICAL



COLUMN CAP DETAIL
TYPICAL



BEARING PLATE SCHEDULE:

	THICKNESS	WIDTH	LENGTH
BP2	3/4"	7 1/2"	10"

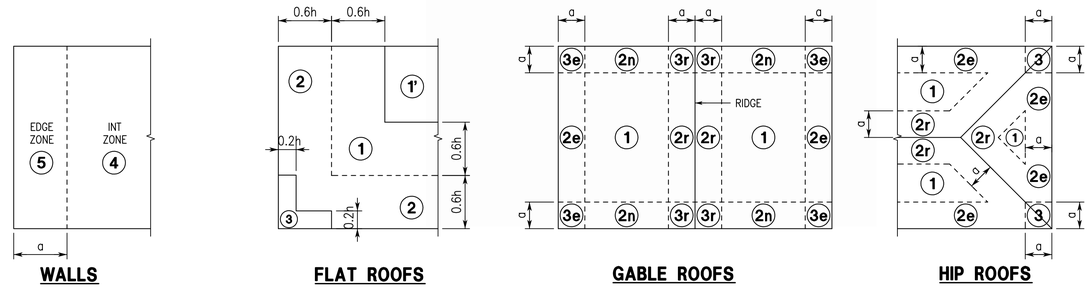
BEAM BEARING DETAIL IN LINE WITH CMU WALL
TYPICAL

COMPONENTS AND CLADDING WIND LOADS FOR WALLS (PSF)				
114 MPH VELOCITY (3-SEC. GUST)	EFFECTIVE WIND AREA (FT^2)	ZONES 4 & 5	ZONES 4 (Int.)	ZONES 5 (Edge)
	10	28.1	-30.4	-37.5
	20	26.9	-29.2	-35.0
	50	25.2	-27.5	-31.7
	100	24.0	-26.3	-29.2
	200	22.7	-25.0	-26.8
	500	21.1	-23.4	-23.4

NOTES:
1. WIDTH OF EDGE STRIP 'a' = 6'-3".
2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-16 STANDARD TABLE 30.3-1. VALUES SHOWN ARE ULTIMATE.
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)										
		ROOF					OVERHANG			
114 MPH VELOCITY (3-SEC. GUST)	EFFECTIVE WIND AREA (FT^2)	Positive Max. Net Pressure 'p' (PSF)	Zone 1' (Int.)	Zone 1 (Int.)	Zone 2 (Edge)	Zone 3 (Corner)	Zone 1' & 1 (Int.) - Max. Net Pressure 'p' (PSF)	Zone 2 (Edge) - Max. Net Pressure 'p' (PSF)	Zone 3 (Corner) - Max. Net Pressure 'p' (PSF)	
	10	16.0	-28.1	-48.9	-64.5	-87.9	-44.2	-59.8	-83.3	
	20	16.0	-28.1	-45.7	-60.4	-79.6	-43.4	-54.3	-73.6	
	50	16.0	-28.1	-41.4	-54.9	-68.7	-42.4	-47.0	-60.8	
	100	16.0	-28.1	-38.2	-50.7	-60.4	-41.6	-41.5	-51.1	
	200	16.0	-24.2	-35.0	-46.6	-52.1	-34.9	-35.9	-41.4	
	500	16.0	-19.0	-30.7	-41.1	-41.1	-26.0	-28.6	-28.6	

NOTES:
1. WIDTH OF EDGE STRIP 'a' = 6'-3".
2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-16 STANDARD TABLE 30.3-1. VALUES SHOWN ARE ULTIMATE.
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 TRUSSES 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.



WALL AND ROOF WIND PRESSURE ZONE DIAGRAMS
TYPICAL

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER H. Craig Wilson P.E. 3-13-2024

SHEET TITLE:
TYPICAL DETAILS

PROJ. MGR.:	HCW
DRAWN:	SPH
DATE:	MARCH 13, 2024
REVISIONS	

JOB NO. 23-72

SHEET NO:
S1.3
4 OF 19

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 23-256

LOAD BEARING STACK 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
12'-0"	40	2#5 BOT & 2#5 TOP	2#5 BOT & 2#5 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 STACK 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.

MASONRY REINFORCING LAP SPLICE LENGTHS

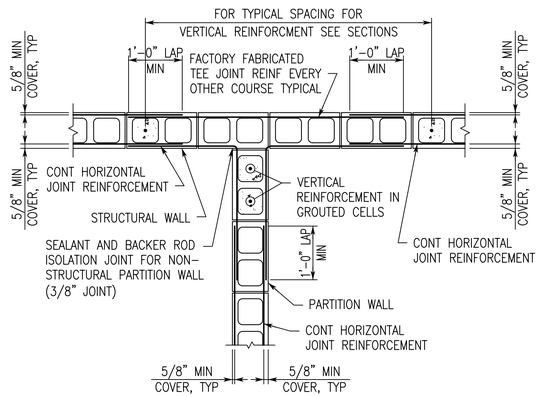
BAR SIZE (#)	CENTERED (IN.)	EDGE (IN.)
3	18.0	18.0
4	24.0	29.0
5	30.0	45.0
6	43.0	54.0
7	60.0	63.0
8	72.0	72.0
9	82.0	82.0

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.

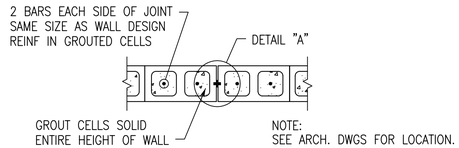
PIPING WEIGHTS

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

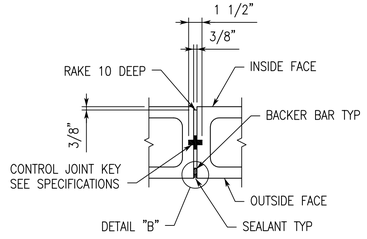
NOTES:
1. FROM ANVIL INTERNATIONAL PIPE FITTERS HANDBOOK.
2. ALL PIPES ASSUMED TO BE SCHEDULE 40.
3. FLUID WEIGHT INCLUDES ALLOWANCE FOR GLYCOL CONCENTRATION.
4. PIPING SUPPORT AND THRUST BRACING REQUIREMENTS SHALL BE COORDINATED BY THE GENERAL CONTRACTOR WITH THE STEEL/JOIST FABRICATOR. SEE MECHANICAL/PLUMBING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



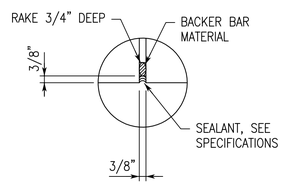
PARTITION WALLS ABUTTING STRUCTURAL WALLS
TYPICAL



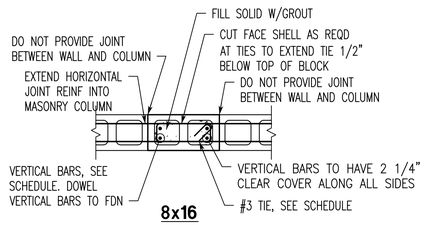
PLAN MASONRY CONTROL JOINT
3/4"=1'-0'



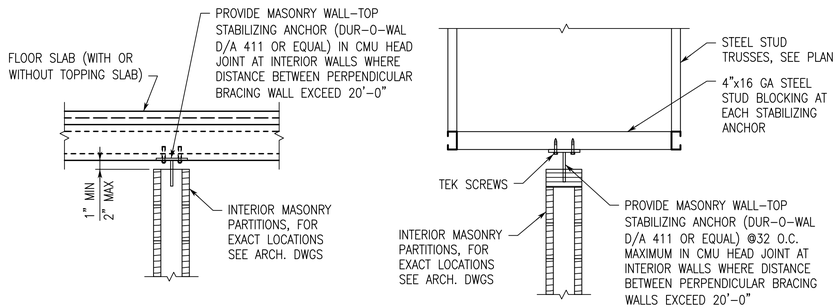
DETAIL "A" MASONRY CONTROL JOINT
1 1/2"=1'-0"



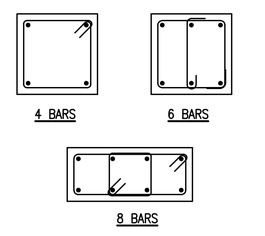
DETAIL "B" MASONRY CONTROL JOINT
3"=1'-0"



MASONRY COLUMN (MC)
TYPICAL



INTERIOR MASONRY WALL BRACING DETAILS
TYPICAL



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

COLUMN TIE DETAILS
TYPICAL

MASONRY COLUMN SCHEDULE (MC)

COLUMN DESIGNATION		MC1	
COLUMN	SIZE	8x16	
	VERTICALS	4#5	
	TIES	#3@8	
	NOTES	1,2,3,4	

NOTES:
1. SEE COLUMN TIE DETAIL ON THIS SHEET.
2. DOWEL VERTICAL STEEL INTO FOOTING THE THICKNESS OF THE FOOTING MINUS 3" WITH STANDARD HOOK. LAP DOWELS WITH VERTICALS 72 BAR DIA.
3. EXTEND VERTICALS FULL HEIGHT OF WALL UNLESS NOTED.
4. PROVIDE FIRST TIE ABOVE FOOTING AT 4" AND FIRST TIE BELOW SLAB/TRUSS/ROOF BEARING AT 4" AND SPACE REMAINING TIES AT SPECIFIED SPACING.

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER H. CRAIG WINN
H. Craig Winn P.E.
3-13-2024

SHEET TITLE:
TYPICAL DETAILS

PROJ. MGR.:	HCW
DRAWN:	SPH
DATE:	MARCH 13, 2024
REVISIONS	

JOB NO. 23-72
SHEET NO:
S1.4
5 OF 19
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 23-256

LATHAN ARCHITECTS

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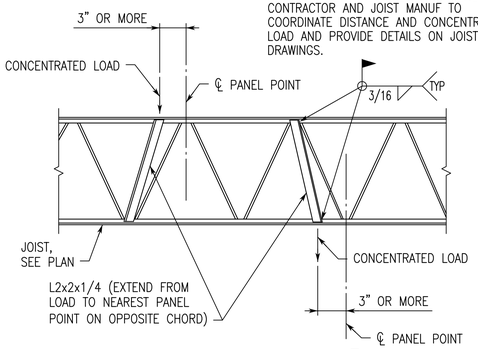
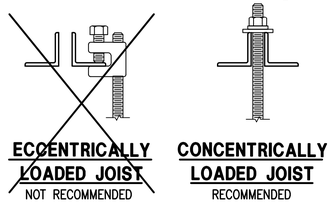
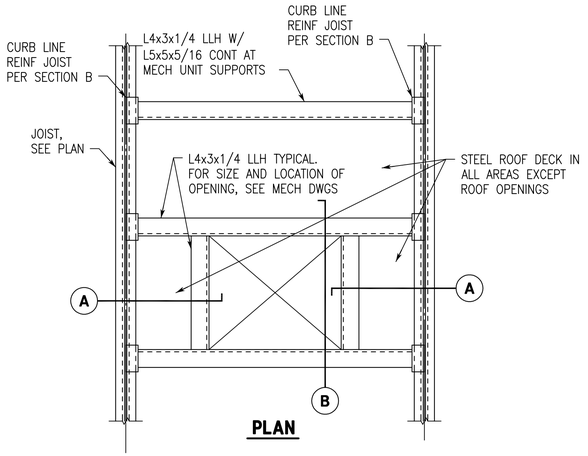
NOTE:
JOIST MANUF TO VERIFY 3" DIMENSION AND MAX CONCENTRATED LOAD FOR T&B CHORD REINFORCEMENT REQUIREMENTS. GENERAL CONTRACTOR AND JOIST MANUF TO COORDINATE DISTANCE AND CONCENTRATED LOAD AND PROVIDE DETAILS ON JOIST SHOP DRAWINGS.

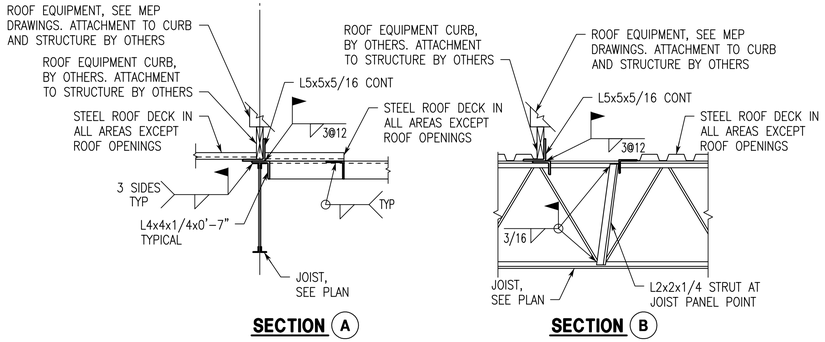




JOIST REINFORCEMENT DETAIL
TYPICAL



PLAN

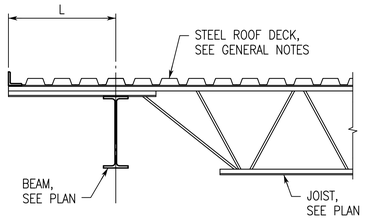


SECTION (A)

SECTION (B)

NOTES:
1. PROVIDE L4x3x1/4 LLH FRAMES AT ALL WATER/POWER BOXES.
2. AT ROOF DRAINS SUPPORT, PROVIDE L2x2x1/4 AT JOIST TOP CHORD.
3. CONTRACTOR COORDINATE ROOF EQUIPMENT FRAMES WITH EQUIPMENT MANUFACTURER. DETAIL IS SCHEMATIC DEPICTION AND OTHER CONFIGURATIONS MAY BE REQUIRED.
4. FASTEN STEEL ROOF DECK TO ALL ANGLES PER DECK FASTENING REQUIREMENT.

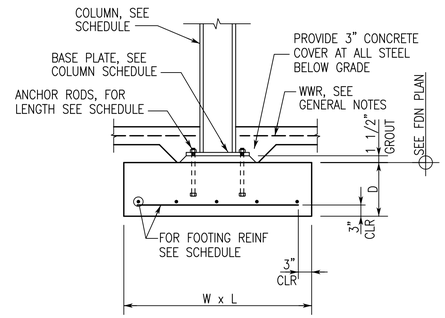
ROOF EQUIPMENT FRAME DETAIL
TYPICAL AT ALL OPENINGS IN ROOF LARGER THAN 8"



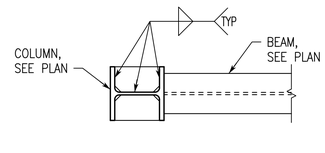
JOIST SEAT EXTENSION

L	EXTENDED END, "R" TYPE
6"	R1
1'-0"	R1
1'-6"	R1
2'-0"	R1
2'-6"	R5
3'-0"	R11
3'-6'	R12
4'-0"	R12
4'-6'	R12
5'-0'	R12

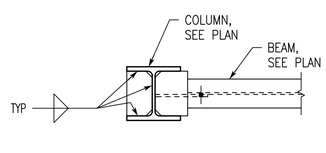
JOIST SEAT EXTENSION
TYPICAL



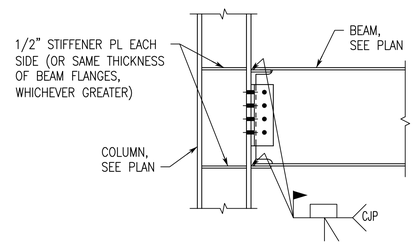
COLUMN BASE AND FOOTING DETAIL
TYPICAL



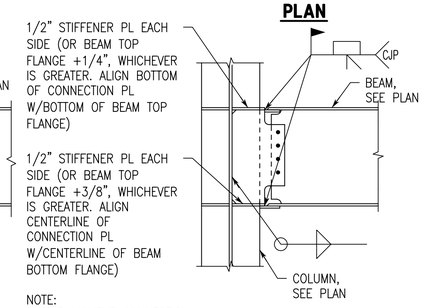
PLAN



PLAN



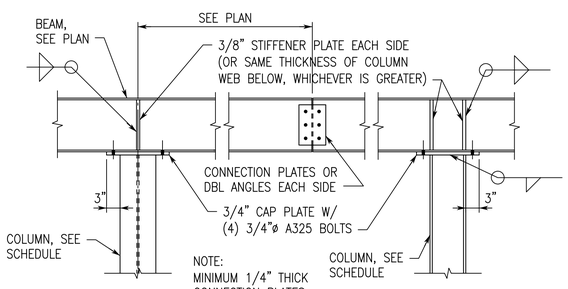
ELEVATION



NOTE:
1. FOR MOMENT CONNECTION "MC" LOCATIONS, SEE PLAN.

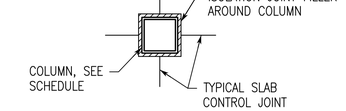
ELEVATION

MOMENT CONNECTION DETAIL
TYPICAL

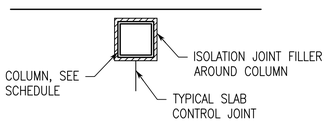


NOTE:
MINIMUM 1/4" THICK CONNECTION PLATES.

COLUMN CAP AND BEAM SPLICE DETAIL
TYPICAL

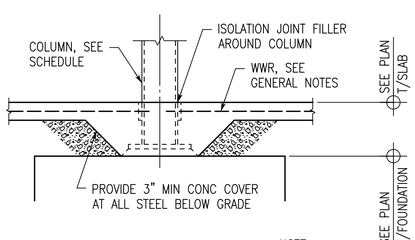


INTERIOR



EXTERIOR

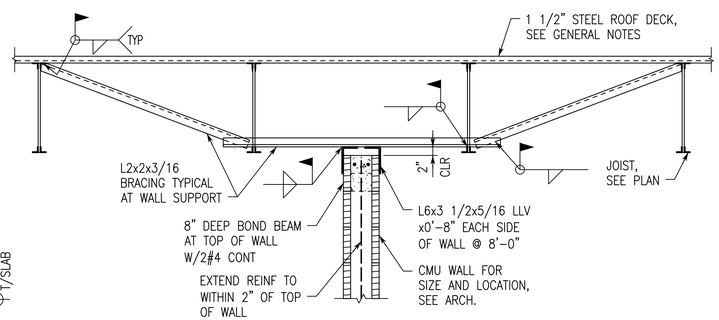
ISOLATION JOINT DETAIL
TYPICAL



SECTION AT COLUMN

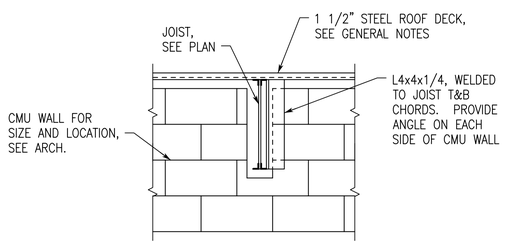
NOTE:
CHOICE OF ISOLATION JOINT DETAIL IS CONTRACTORS OPTION.

COLUMN/SLAB-JOINT DETAIL
TYPICAL



CMU WALL SUPPORT DETAIL (WALL BETWEEN PARALLEL JOISTS)
INTERIOR MASONRY WALL BRACING DETAILS

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



CMU WALL SUPPORT DETAIL (WALL PERPENDICULAR TO JOIST)
INTERIOR MASONRY WALL BRACING DETAILS

PROVIDE WALL SUPPORTS AT EVERY JOIST WHERE CONTINUOUS WALL SPAN BETWEEN PERPENDICULAR WALLS EXCEEDS 20'-0", UNLESS NOTED.

ALABAMA REGISTERED PROFESSIONAL ENGINEER CRAIG WINN No. 22596
H. Craig Winn P.E.
3-13-2024

SHEET TITLE:
TYPICAL DETAILS

PROJ. MGR.:	HCW
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DATE:	MARCH 13, 2024
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JOB NO. 23-72

SHEET NO:
S1.5
6 OF 19

0 1" 2"

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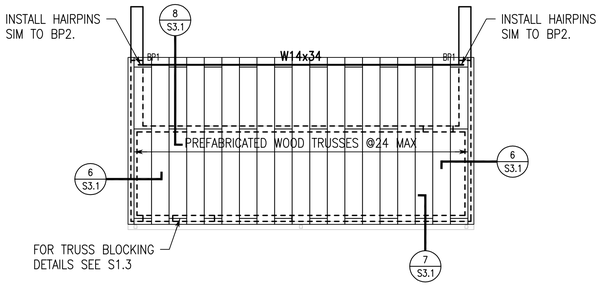
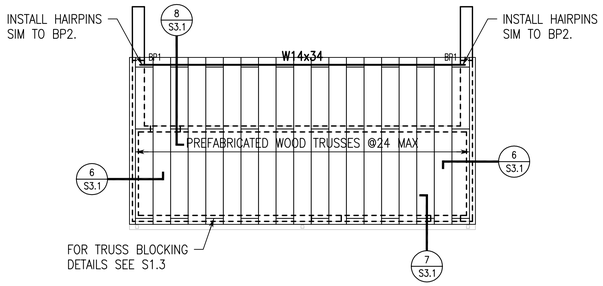


PROJECT NORTH

VISITOR DUGOUT ROOF FRAMING PLAN

1/8"=1'-0"

1. TRUSS BEARING 10'-1 1/2" ABOVE FINISH FLOOR.
2. ROOF SYSTEM: 3/4" PLYWOOD ON PREFABRICATED WOOD TRUSSES AT 24" MAX. SEE GENERAL NOTES.
3. PROVIDE ONLY ONE SPLICE IN BEAM AS REQUIRED.
4. 'BP' INDICATES BEAM BEARING PLATE, SEE TYPICAL DETAIL ON SHEET S1.3.

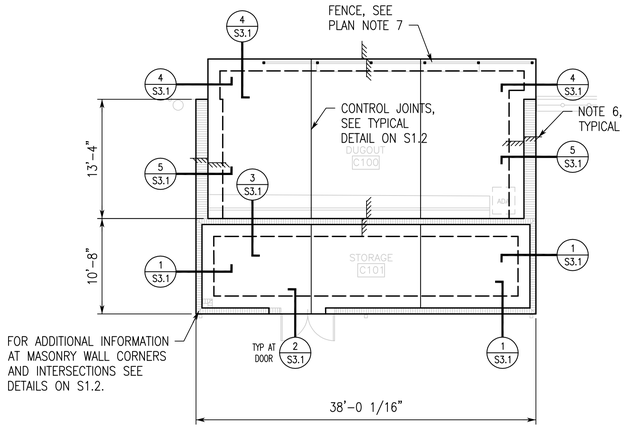


PROJECT NORTH

HOME DUGOUT ROOF FRAMING PLAN

1/8"=1'-0"

1. TRUSS BEARING 10'-1 1/2" ABOVE FINISH FLOOR.
2. ROOF SYSTEM: 3/4" PLYWOOD ON PREFABRICATED WOOD TRUSSES AT 24" MAX. SEE GENERAL NOTES.
3. PROVIDE ONLY ONE SPLICE IN BEAM AS REQUIRED.
4. 'BP' INDICATES BEAM BEARING PLATE, SEE TYPICAL DETAIL ON SHEET S1.3.

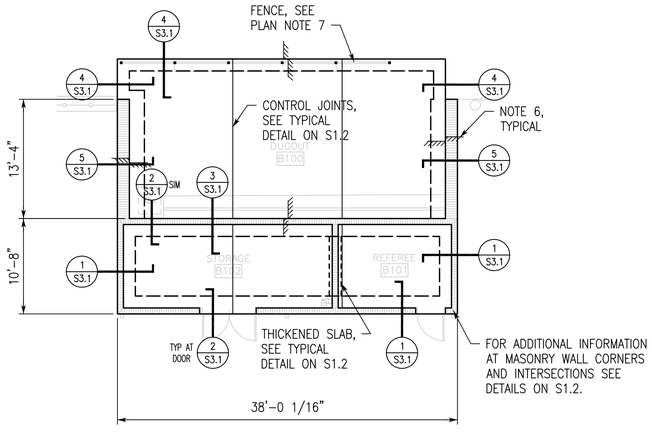


PROJECT NORTH

VISITOR DUGOUT FOUNDATION PLAN

1/8"=1'-0"

1. FINISH FLOOR (TOP OF SLAB) ELEVATION SEE CIVIL, UNLESS NOTED.
2. TOP OF FOOTING ELEVATION -1'-4", UNLESS NOTED IN SECTIONS.
3. FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS.
4. FOR SLAB SLOPE LOCATIONS, SEE ARCHITECTURAL DRAWINGS.
5. GENERAL CONTRACTOR SHALL COORDINATE ALL PLUMBING LINES BELOW FOOTINGS WITH CIVIL, PLUMBING AND UTILITY DRAWINGS. FOR PLUMBING LINES BELOW FOOTINGS, SEE DETAIL ON S1.2.
6. DEPRESS SLAB, SEE ARCHITECTURAL DRAWINGS FOR EXTENTS. SEE DETAIL ON S1.2 FOR MORE INFORMATION.
7. FENCE SUPPORTS SHALL BE HSS2X2X1/4 TUBES. WELD TUBES TO EACH OTHER WITH FULL DEPTH PARTIAL PENETRATION WELDS ALL AROUND WATER TIGHT. FOR ALL DIMENSIONS AND ELEVATIONS SEE ARCHITECTURAL DRAWINGS. ASSEMBLE FRAME IN THE SHOP TO THE GREATEST EXTENT FEASIBLE AND HOT DIP GALVANIZE ASSEMBLY.



PROJECT NORTH

HOME DUGOUT FOUNDATION PLAN

1/8"=1'-0"

1. FINISH FLOOR (TOP OF SLAB) ELEVATION SEE CIVIL, UNLESS NOTED.
2. TOP OF FOOTING ELEVATION -1'-4", UNLESS NOTED IN SECTIONS.
3. FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS.
4. FOR SLAB SLOPE LOCATIONS, SEE ARCHITECTURAL DRAWINGS.
5. GENERAL CONTRACTOR SHALL COORDINATE ALL PLUMBING LINES BELOW FOOTINGS WITH CIVIL, PLUMBING AND UTILITY DRAWINGS. FOR PLUMBING LINES BELOW FOOTINGS, SEE DETAIL ON S1.2.
6. DEPRESS SLAB, SEE ARCHITECTURAL DRAWINGS FOR EXTENTS. SEE DETAIL ON S1.2 FOR MORE INFORMATION.
7. FENCE SUPPORTS SHALL BE HSS2X2X1/4 TUBES. WELD TUBES TO EACH OTHER WITH FULL DEPTH PARTIAL PENETRATION WELDS ALL AROUND WATER TIGHT. FOR ALL DIMENSIONS AND ELEVATIONS SEE ARCHITECTURAL DRAWINGS. ASSEMBLE FRAME IN THE SHOP TO THE GREATEST EXTENT FEASIBLE AND HOT DIP GALVANIZE ASSEMBLY.

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TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER CRAIG WINN
H. Craig Winn, P.E.
3-13-2024

SHEET TITLE:
DUGOUT FOUNDATION AND ROOF FRAMING PLANS

PROJ. MGR.:	HCW
DRAWN:	SPH
DATE:	MARCH 13, 2024
REVISIONS	

JOB NO. 23-72

SHEET NO:
S2.1
7 OF 19

0 1" 2"

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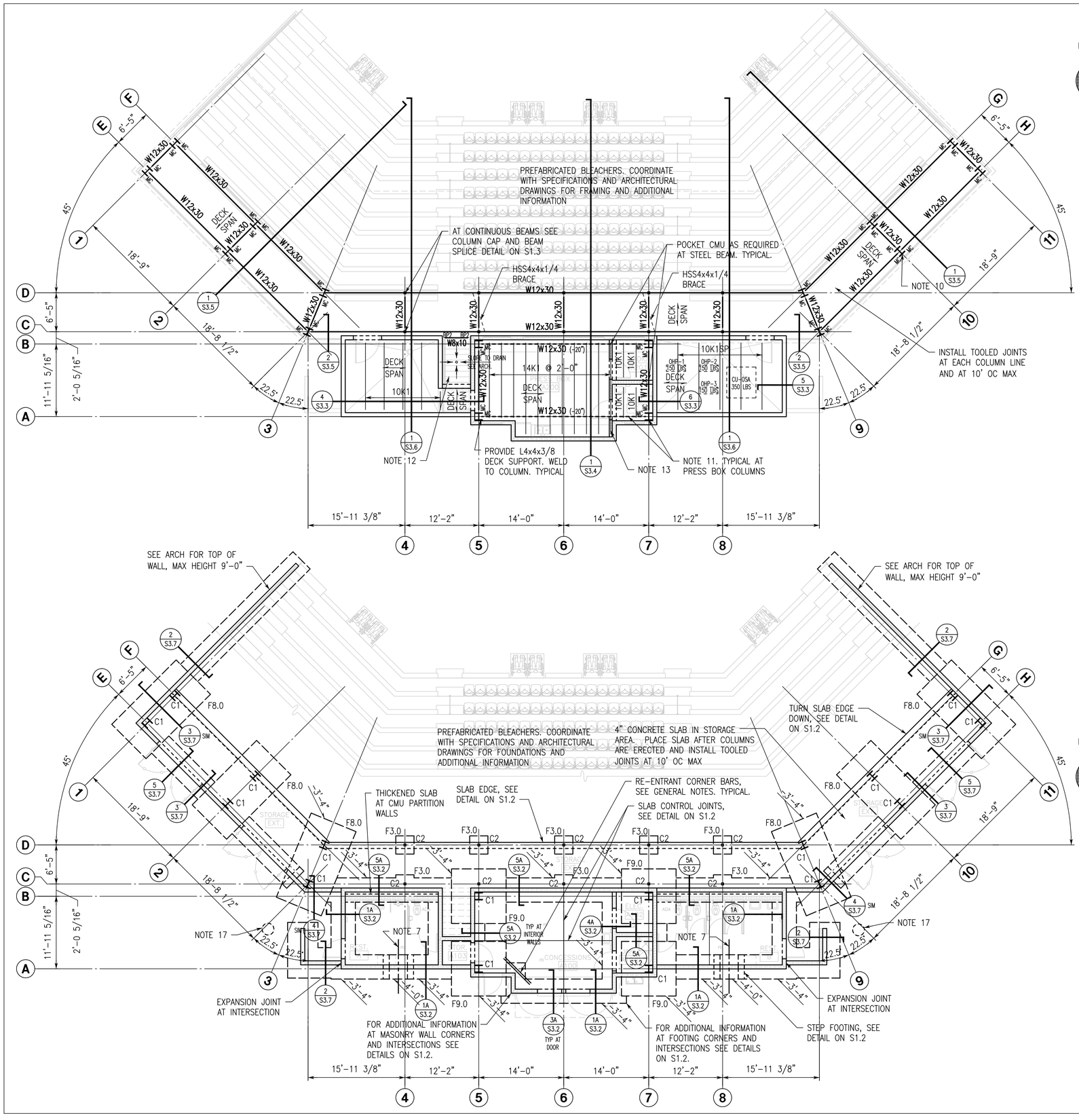

PRESS BOX UPPER LEVEL FRAMING PLAN

1/8"=1'-0"

1. FINISH FLOOR (TOP OF SLAB) ELEVATION:
   PRESS BOX: 13'-4", UNLESS NOTED
   BLEACHER WALKWAY: 9'-0", UNLESS NOTED
2. TOP OF STEEL ELEVATION OF ALL BEAMS AND JOIST SHALL BE AS INDICATED ON PLANS AND SECTIONS AND COORDINATED WITH ARCHITECTURAL DRAWINGS.
3. PRESS BOX FLOOR SYSTEM: 3 7/16" NORMAL WEIGHT CONCRETE SLAB ON 9/16" NON-COMPOSITE STEEL FORM DECK (4" TOTAL). SEE GENERAL NOTES.
   BLEACHER WALKWAY FLOOR SYSTEM: 3 1/2" NORMAL WEIGHT CONCRETE SLAB ON 2" COMPOSITE STEEL DECK (5 1/2" TOTAL). SEE GENERAL NOTES.
4. TOP OF STEEL IS EITHER LEVEL OR SLOPING UNIFORMLY BETWEEN NOTED ELEVATIONS.
5. SPACE STEEL JOISTS EQUALLY BETWEEN BEAMS OR CMU WALLS, UNLESS NOTED.
6. THE GENERAL CONTRACTOR SHALL COORDINATE AND VERIFY THE SIZE, WEIGHT AND LOCATION OF ALL CONCENTRATED AND MECHANICAL LOADS WITH THE JOIST MANUFACTURER.
7. HANGER LOCATIONS FOR PIPING LARGER THAN 3 INCHES IN DIAMETER MUST BE COORDINATED BY GENERAL CONTRACTOR WITH THE JOIST MANUFACTURER. FOR PIPING WEIGHTS SEE TABLE ON SHEET S1.4.
8. COORDINATE MECHANICAL OPENINGS WITH MECHANICAL DRAWINGS AND UNIT MANUFACTURER.
9. PROVIDE LOAD BEARING MASONRY LINTEL AT ALL MASONRY LINTEL LOCATIONS SUPPORTING JOISTS. SEE S1.4 FOR MASONRY LINTEL SCHEDULE
10. IF CANOPY ALTERNATE IS NOT TAKEN, TOP OF COLUMNS ARE FLUSH WITH BEAMS AND DO NOT EXTEND BEYOND WALKWAY. TYPICAL AT ENTIRE WALKWAY.
11. IF CANOPY ALTERNATE IS NOT TAKEN COLUMN AND ASSOCIATED BEAM FRAMING NOT PRESENT.
12. EXTEND BLEACHER WALKWAY FLOOR SYSTEM UNDER STAIRS AT WALKWAY FINISHED FLOOR ELEVATION. SPAN DECK SHORT DIRECTION. ATTACH DECK TO L6x4x3/8 (LLV) CONT ON THREE SIDES. DRILL AND ATTACH L6x4x3/8 IN PLACE W/ 3/4"Ø EXPANSION ANCHORS W/ 6" EMBEDMENT. RUN 16" DEEP BOND BEAM W/ 2#5 CONT EACH COURSE AT THIS ELEVATION ALL THREE WALLS.
13. LOCATE JOIST DIRECTLY UNDER 6" CMU WALL. REINFORCE WALL W/ #4@48 VERT. EPOXY GROUT REBAR 2" INTO CONCRETE SLAB. JOIST MANUFACTURER SHALL DESIGN JOIST FOR AN ADDITIONAL SERVICE DEAD LOAD OF 360PLF.
14. 'BP' INDICATES BEAM BEARING PLATE, SEE TYPICAL DETAIL ON SHEET S1.3.
15. ALL STEEL BEAM REACTIONS SHALL BE DESIGNED AS A MINIMUM OF 12k SERVICE UNLESS NOTED ON PLAN.
16. 'MC' INDICATES MOMENT CONNECTION. SEE DETAIL ON S1.5 FOR ADDITIONAL INFORMATION.
17. ALL STRUCTURAL STEEL, INCLUDING BASEPLATES, ANCHOR RODS, BOLTS, CONNECTIONS, AND STRUCTURAL STEEL MEMBERS, ASSOCIATED WITH THE CANOPY FRAMING, SHALL BE HOT DIP GALVANIZED. SEE STRUCTURAL STEEL SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
18. PROVIDE 4" DEEP JOIST SEATS AT ALL LOCATIONS UNLESS NOTED.

RESTROOM ROOF FRAMING NOTES:

1. JOIST BEARING ELEVATION 11'-4" ABOVE FINISH FLOOR SLAB. ROOF JOISTS ARE FLAT AND INSTALLED IN ONE PLANE. ROOF SLOPES ARE ACHIEVED WITH TAPERED INSULATION.
2. ROOF SYSTEM: 1 1/2" DEEP, GALVANIZED STEEL DECK ON STEEL JOISTS SPACED AT 4'-0" MAXIMUM ON CENTER, SEE GENERAL NOTES AND TYPICAL DETAILS.
3. TOP OF STEEL IS EITHER LEVEL OR SLOPING UNIFORMLY BETWEEN NOTED ELEVATIONS.
4. SPACE STEEL JOISTS EQUALLY BETWEEN WALLS, UNLESS NOTED.
5. HANGER LOCATIONS FOR PIPING LARGER THAN 3 INCHES IN DIAMETER MUST BE COORDINATED BY GENERAL CONTRACTOR WITH THE JOIST MANUFACTURER. FOR PIPING WEIGHTS SEE TABLE ON SHEET S1.4.
6. SEE ROOF EQUIPMENT FRAME DETAIL ON S1.5 FOR MECHANICAL UNIT FRAMING, UNLESS NOTED OTHERWISE IN PLAN.
7. EQUIPMENT LOCATIONS AND WEIGHTS SHOWN ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE AND VERIFY THE SIZE, WEIGHT AND LOCATION OF ALL MECHANICAL UNITS AND AV EQUIPMENT WITH THE JOIST MANUFACTURER. DO NOT SCALE FROM THIS DRAWING.
8. PROVIDE 2 1/2" DEEP JOIST SEATS AT ALL LOCATIONS UNLESS NOTED.

PRESS BOX FOUNDATION PLAN

1/8"=1'-0"

1. FINISH FLOOR (TOP OF SLAB) ELEVATION 0'-0", UNLESS NOTED.
2. TOP OF FOOTING ELEVATION -2'-0", UNLESS NOTED.
3. FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS.
4. FOR SLAB RECESS AND RAMP LOCATIONS, SEE ARCHITECTURAL DRAWINGS.
5. GENERAL CONTRACTOR SHALL COORDINATE TILE JOINT LOCATIONS WITH CONTROL JOINTS
6. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL CMU WALLS. NOTE ALL EXTERIOR PLAN DIMENSIONS ARE TO EXTERIOR FACE OF CMU.
7. GENERAL CONTRACTOR SHALL COORDINATE ALL FOOTING STEPS WITH CIVIL, PLUMBING AND UTILITY DRAWINGS. FOR FOOTING STEP AT UTILITIES, SEE DETAIL ON S1.2.
8. FOOTING WIDTHS INDICATED ON PLAN MAY NOT BE TO SCALE. COORDINATE WITH SECTION CUTS FOR FOOTING WIDTHS AND ADDITIONAL INFORMATION.
9. FOR PAVEMENT AND HARDSCAPE INFORMATION, SEE ARCHITECTURAL DRAWINGS AND CIVIL DRAWINGS.
10. CONTRACTOR SHALL COORDINATE EMBEDS INTO MASONRY WITH LOUVER OR DOOR MANUFACTURER. PROVIDE MODIFICATIONS TO CMU AS REQUIRED TO FULLY COMPLY WITH MANUFACTURER INSTALLATION DETAILS, TYPICAL FOR ENTIRE STRUCTURE. SUBMIT ANY MODIFICATIONS TO DESIGN TEAM FOR REVIEW.
11. C1 INDICATES W14x132 COLUMN W/ 1 1/4x22x22 BP ANCHORED W/ (4)1"Ø HEADED STUDS MINIMUM 1'-0" EMBEDMENT. SEE COLUMN BASE AND FOOTING DETAIL ON S1.5
12. C2 INDICATES HSS4x4x3/8 COLUMN W/ 3/4x10x10 BP ANCHORED W/ (4)3/4"Ø HEADED STUDS MINIMUM 9" EMBEDMENT. SEE COLUMN BASE AND FOOTING DETAIL ON S1.5
13. F3.0 INDICATES 3'-0"x3'-0"x1'-0" THICK SPREAD FOOTING. REINFORCE W/ 3#5 EW T&B.
14. F8.0 INDICATES 8'-0"x15'-0"x1'-6" THICK SPREAD FOOTING. REINFORCE W/ #6@12 EW T&B.
15. F9.0 INDICATES 9'-0"x9'-0"x1'-6" THICK SPREAD FOOTING. REINFORCE W/ 9#6 EW T&B.
16. ALL STRUCTURAL STEEL, INCLUDING BASEPLATES, ANCHOR RODS, BOLTS, CONNECTIONS, AND STRUCTURAL STEEL MEMBERS, ASSOCIATED WITH THE CANOPY FRAMING, SHALL BE HOT DIP GALVANIZED. SEE STRUCTURAL STEEL SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
17. BACKSTOP NETTING SUPPORT COLUMN AND FOOTING, SEE CIVIL.

LATHAN ARCHITECTS

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ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER H. LACY WINN, JR. P.E. CRAIG
3-13-2024

SHEET TITLE:
PRESS BOX FOUNDATION AND UPPER FRAMING PLAN

PROJ. MGR.:	HCW
DRAWN:	SPH
DATE:	MARCH 13, 2024
REVISIONS	

JOB NO. 23-72

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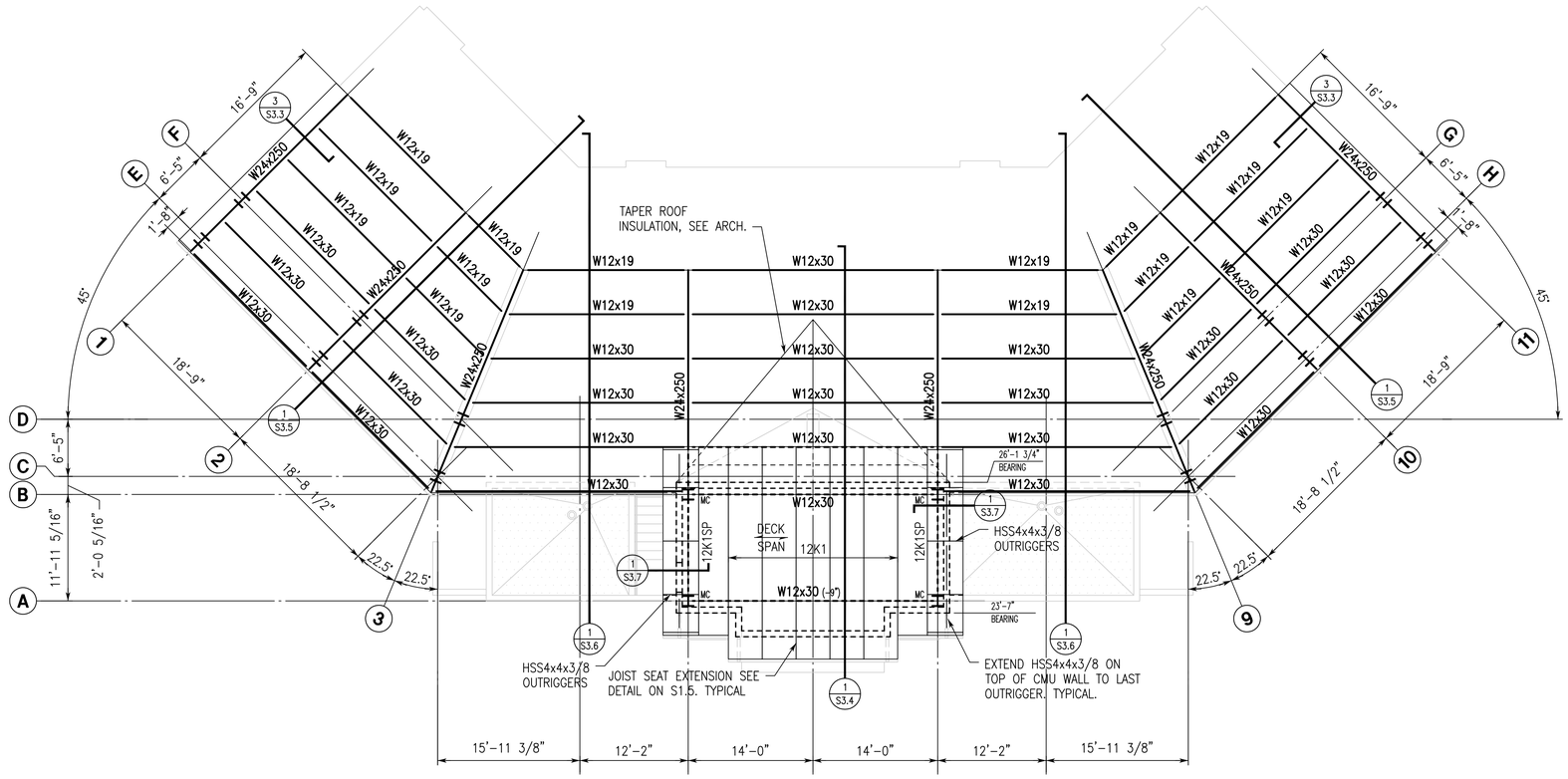

PROJECT NORTH

PRESS BOX ROOF FRAMING PLAN

1/8"=1'-0"

1. JOIST BEARING ELEVATION VARIES, SEE PLAN. SEE ARCHITECTURAL DRAWINGS FOR CANOPY ELEVATIONS.
2. PRESS BOX ROOF SYSTEM: 1 1/2" DEEP, GALVANIZED STEEL DECK ON STEEL JOISTS SPACED AT 4'-0" MAXIMUM ON CENTER, SEE GENERAL NOTES AND TYPICAL DETAILS.
   CANOPY ROOF SYSTEM: 3" DEEP, GALVANIZED STEEL DECK ON STEEL BEAMS SPACED AT 6'-0" MAXIMUM ON CENTER, SEE GENERAL NOTES AND TYPICAL DETAILS.
3. TOP OF STEEL IS EITHER LEVEL OR SLOPING UNIFORMLY BETWEEN NOTED ELEVATIONS.
4. BEAMS PARALLEL TO JOISTS ARE 4" HIGHER THAN SUPPORTING MEMBERS, UNLESS NOTED.
5. SPACE STEEL JOISTS EQUALLY BETWEEN BEAMS OR COLUMN LINES, UNLESS NOTED.
6. HANGER LOCATIONS FOR PIPING LARGER THAN 3 INCHES IN DIAMETER MUST BE COORDINATED BY GENERAL CONTRACTOR WITH THE JOIST MANUFACTURER. FOR PIPING WEIGHTS SEE TABLE ON SHEET S1.4.
7. SEE ROOF EQUIPMENT FRAME DETAIL ON S1.5 FOR MECHANICAL UNIT FRAMING, UNLESS NOTED OTHERWISE IN PLAN.
8. EQUIPMENT LOCATIONS AND WEIGHTS SHOWN ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE AND VERIFY THE SIZE, WEIGHT AND LOCATION OF ALL MECHANICAL UNITS AND AV EQUIPMENT WITH THE JOIST MANUFACTURER. DO NOT SCALE FROM THIS DRAWING.
9. PROVIDE CMU LINTEL OVER OPENING. SEE 'LOAD BEARING STACK BOND MASONRY LINTEL SCHEDULE' ON S1.2 FOR ADDITIONAL INFORMATION.
10. ALL STEEL BEAM REACTIONS SHALL BE DESIGNED AS A MINIMUM OF 12K SERVICE UNLESS NOTED ON PLAN
11. ALL ROOF JOIST SEATS 4" IN DEPTH.
12. 'MC' INDICATES MOMENT CONNECTION. SEE DETAIL ON S1.5 FOR ADDITIONAL INFORMATION.
13. ALL STRUCTURAL STEEL, INCLUDING BASEPLATES, ANCHOR RODS, BOLTS, CONNECTIONS, AND STRUCTURAL STEEL MEMBERS, ASSOCIATED WITH THE CANOPY FRAMING, SHALL BE HOT DIP GALVANIZED. SEE STRUCTURAL STEEL SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
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6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER H. CRAIG WINN
H. Craig Winn P.E.
3-13-2024

SHEET TITLE:
PRESS BOX ROOF FRAMING PLAN

PROJ. MGR.:	HCW
DRAWN:	SPH
DATE:	MARCH 13, 2024
REVISIONS	

JOB NO. 23-72

SHEET NO:
S2.3
9 OF 19

0 1" 2"

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Hoover, AL 35244
tel 205-824-5200
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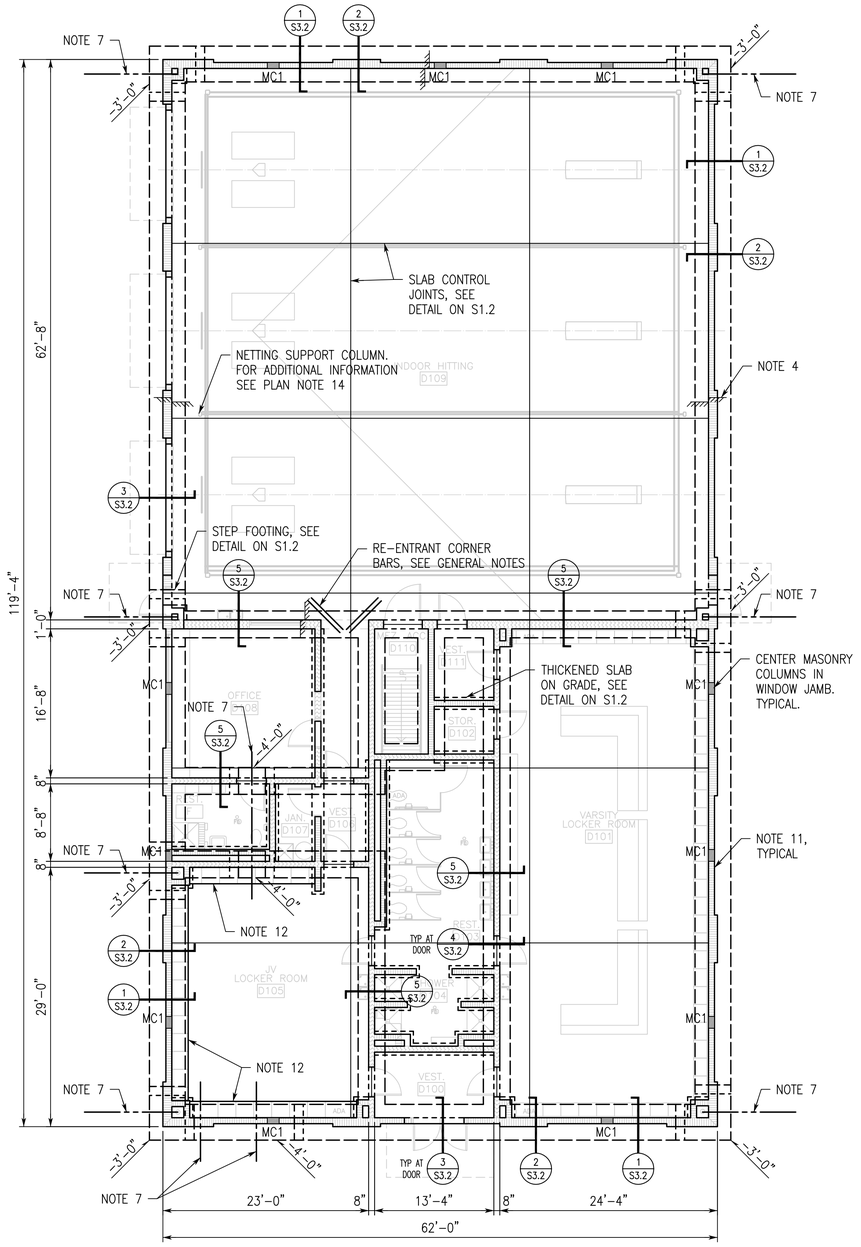
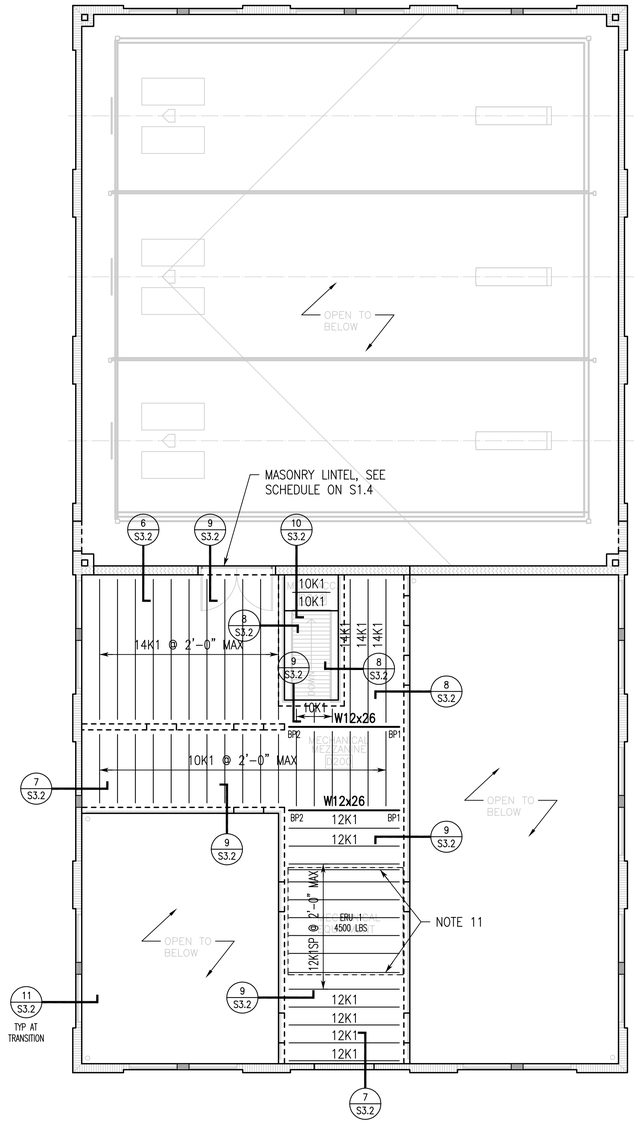
Job Number 23-256





PROJECT NORTH

HITTING HOUSE FOUNDATION PLAN

1/8"=1'-0"

1. FINISH FLOOR (TOP OF SLAB) ELEVATION 0'-0", UNLESS NOTED.
2. TOP OF FOOTING ELEVATION -2'-0", UNLESS NOTED.
3. FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS.
4. FOR SLAB RECESS AND RAMP LOCATIONS, SEE ARCHITECTURAL DRAWINGS. RECESS SLAB 2.5" AT INDOOR HITTING ROOM, SEE TYPICAL DETAIL ON S1.2
5. GENERAL CONTRACTOR SHALL COORDINATE TILE JOINT LOCATIONS WITH CONTROL JOINTS
6. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL CMU WALLS. NOTE ALL EXTERIOR PLAN DIMENSIONS ARE TO EXTERIOR FACE OF CMU ABOVE WATERTABLE.
7. GENERAL CONTRACTOR SHALL COORDINATE ALL FOOTING STEPS WITH CIVIL, PLUMBING AND UTILITY DRAWINGS. FOR FOOTING STEP AT UTILITIES, SEE DETAIL ON S1.2.
8. FOOTING WIDTHS INDICATED ON PLAN MAY NOT BE TO SCALE. COORDINATE WITH SECTION CUTS FOR FOOTING WIDTHS AND ADDITIONAL INFORMATION.
9. FOR PAVEMENT AND HARDSCAPE INFORMATION, SEE ARCHITECTURAL DRAWINGS AND CIVIL DRAWINGS.
10. CONTRACTOR SHALL COORDINATE EMBEDS INTO MASONRY WITH LOUVER OR DOOR MANUFACTURER. PROVIDE MODIFICATIONS TO STRUCTURE AS REQUIRED TO FULLY COMPLY WITH MANUFACTURER INSTALLATION DETAILS. SUBMIT ANY MODIFICATIONS TO DESIGN TEAM FOR REVIEW.
11. CMU WALLS SHALL BE SCORED AND JOINTS SHALL RECEIVE MORTAR. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND EXTENT.
12. PROVIDE 4" THICK CONCRETE PAD, SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. REINFORCE WITH #4@12 EACH WAY MID-HEIGHT OF PAD. ROUGHEN SLAB ON GRADE PRIOR TO ERECTION OF PAD.
13. "MCX" INDICATED MASONRY COLUMN. SEE S1.4 FOR ADDITIONAL INFORMATION.
14. NETTING SUPPORT COLUMNS AND FOOTINGS SHALL BE DESIGN-BUILD BY THE CONTRACTOR. CONTRACTOR SHALL COORDINATE BUILDING FOUNDATIONS WITH THE NETTING SUPPORT COLUMN FOUNDATIONS. DO NOT PLACE BUILDING FOOTINGS PRIOR TO RECEIVING APPROVED SHOP DRAWINGS ON NETTING COLUMN FOUNDATIONS.

PROJECT NORTH

HITTING HOUSE UPPER LEVEL FRAMING PLAN

1/8"=1'-0"

1. FINISH FLOOR (TOP OF SLAB) ELEVATION 12'-0", UNLESS NOTED.
2. TOP OF STEEL ELEVATION OF ALL BEAMS SUPPORTING OPEN WEB JOIST SHALL BE 8" BELOW FINISH FLOOR ELEVATION, UNLESS NOTED (±) INCHES.
3. FLOOR SYSTEM: 3 7/16" LIGHTWEIGHT CONCRETE SLAB ON 9/16" NON-COMPOSITE STEEL FORM DECK (4" TOTAL). SEE GENERAL NOTES.
4. TOP OF STEEL IS EITHER LEVEL OR SLOPING UNIFORMLY BETWEEN NOTED ELEVATIONS.
5. SPACE STEEL JOISTS EQUALLY BETWEEN BEAMS OR CMU WALLS, UNLESS NOTED.
6. THE GENERAL CONTRACTOR SHALL COORDINATE AND VERIFY THE SIZE, WEIGHT AND LOCATION OF ALL CONCENTRATED AND MECHANICAL LOADS WITH THE JOIST MANUFACTURER.
7. HANGER LOCATIONS FOR PIPING LARGER THAN 3 INCHES IN DIAMETER MUST BE COORDINATED BY GENERAL CONTRACTOR WITH THE JOIST MANUFACTURER. FOR PIPING WEIGHTS SEE TABLE ON SHEET S1.4.
8. COORDINATE MECHANICAL OPENINGS WITH MECHANICAL DRAWINGS AND UNIT MANUFACTURER.
9. PROVIDE LOAD BEARING MASONRY LINTEL AT ALL MASONRY LINTEL LOCATIONS SUPPORTING JOISTS.
10. 'BP' INDICATES BEAM BEARING PLATE, SEE TYPICAL DETAIL ON SHEET S1.3.
11. LOCATE JOISTS DIRECTLY UNDER CURB OF ERU UNIT.
12. PROVIDE 4" SEAT ON ALL JOISTS.

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TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER CRAIG WINN
H. Craig Winn, P.E.
3-13-2024

SHEET TITLE:
HITTING HOUSE FOUNDATION AND UPPER FRAMING PLAN

PROJ. MGR.:	HCW
DRAWN:	SPH
DATE:	MARCH 13, 2024
REVISIONS	

JOB NO. 23-72

SHEET NO:
S2.4
10 OF 19

0 1" 2"

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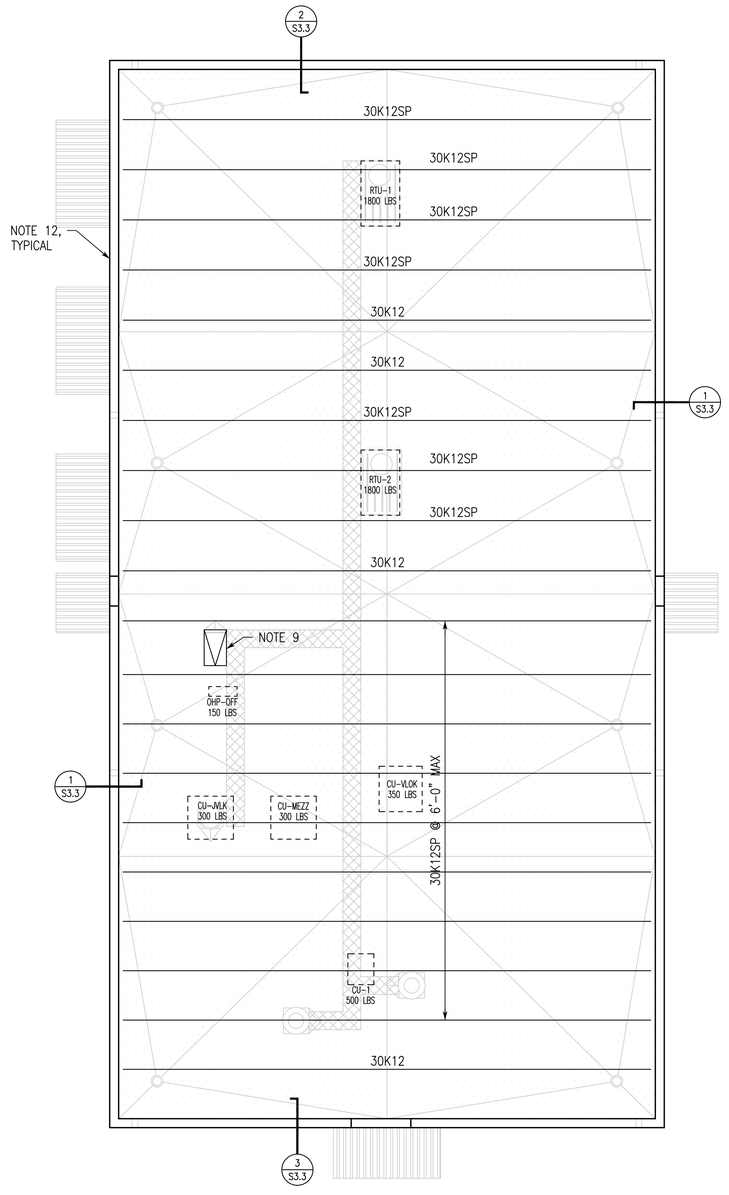

PROJECT NORTH

HITTING HOUSE ROOF FRAMING PLAN

1/8"=1'-0"

1. JOIST BEARING ELEVATION 21'-4" ABOVE FINISH FLOOR SLAB. ROOF JOISTS ARE FLAT AND INSTALLED IN ONE PLANE. ROOF SLOPES ARE ACHIEVED WITH TAPERED INSULATION.
2. ROOF SYSTEM: 1 1/2" DEEP 20GA, GALVANIZED STEEL DECK ON STEEL JOISTS SPACED AT 6'-0" MAXIMUM ON CENTER, SEE GENERAL NOTES AND TYPICAL DETAILS.
3. TOP OF STEEL IS EITHER LEVEL OR SLOPING UNIFORMLY BETWEEN NOTED ELEVATIONS.
4. SPACE STEEL JOISTS EQUALLY BETWEEN WALLS, UNLESS NOTED.
5. HANGER LOCATIONS FOR PIPING LARGER THAN 3 INCHES IN DIAMETER MUST BE COORDINATED BY GENERAL CONTRACTOR WITH THE JOIST MANUFACTURER. FOR PIPING WEIGHTS SEE TABLE ON SHEET S1.4.
6. ALL JOISTS ARE TO HAVE 5" JOIST SEAT DEPTH.
7. SEE ROOF EQUIPMENT FRAME DETAIL ON S1.5 FOR MECHANICAL UNIT FRAMING, UNLESS NOTED OTHERWISE IN PLAN.
8. EQUIPMENT LOCATIONS AND WEIGHTS SHOWN ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE AND VERIFY THE SIZE, WEIGHT AND LOCATION OF ALL MECHANICAL UNITS AND AV EQUIPMENT WITH THE JOIST MANUFACTURER. DO NOT SCALE FROM THIS DRAWING.
9. ROOF HATCH, FOR LOCATION AND HATCH DETAILS, SEE ARCHITECTURAL DRAWINGS. FOR FRAMING, SEE ROOF EQUIPMENT FRAME DETAIL ON SHEET S1.5
10. JOIST MANUFACTURER PROVIDE HORIZONTAL BRIDGING WHERE MECHANICAL DUCT IS LOCATED BETWEEN JOISTS TO ALLOW CLEARANCE FOR DUCT RUNS IN SPACE BETWEEN JOISTS.
11. JOIST MANUFACTURER NOTE: ALL JOISTS TO HAVE THE SAME WEB CONFIGURATION SO THE MECHANICAL SUB CONTRACTOR CAN LOCATE THE DUCT BRANCHES IN WEB SPACES TO WHERE THEY LINE UP ALL THE WAY ACROSS THE ROOM.
12. PROVIDE CMU LINTEL OVER OPENINGS. SEE 'LOAD BEARING STACK BOND MASONRY LINTEL SCHEDULE' ON S1.4 FOR ADDITIONAL INFORMATION.

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ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER H. CRAIG WINN
H. Craig Winn P.E.
3-13-2024

SHEET TITLE:
HITTING HOUSE ROOF FRAMING PLAN

PROJ. MGR.:	HCW
DRAWN:	SPH
DATE:	MARCH 13, 2024
REVISIONS	

JOB NO. 23-72

SHEET NO:
S2.5
11 OF 19

0 1" 2"

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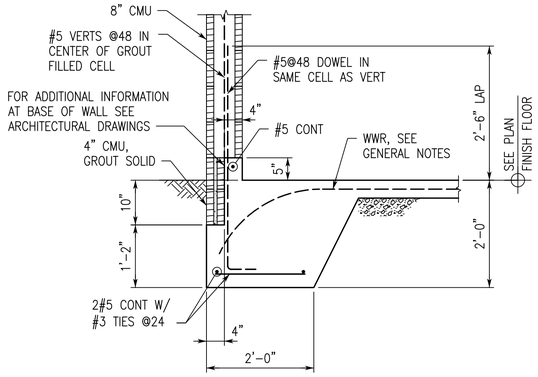
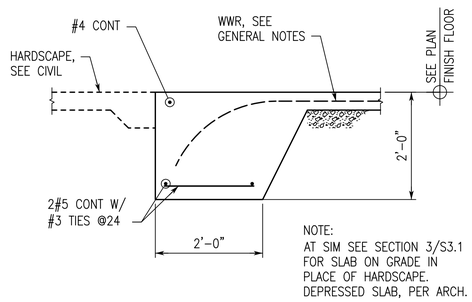


SECTION 1/S3.1
3/4"=1'-0"



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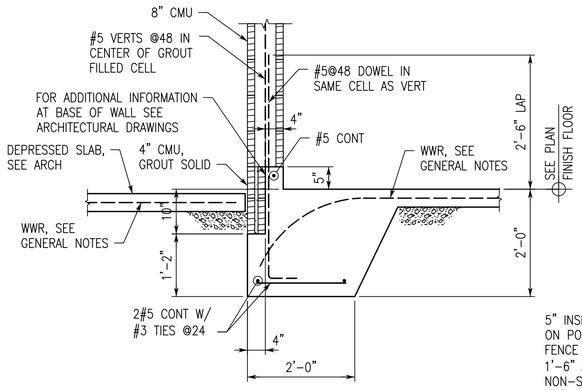

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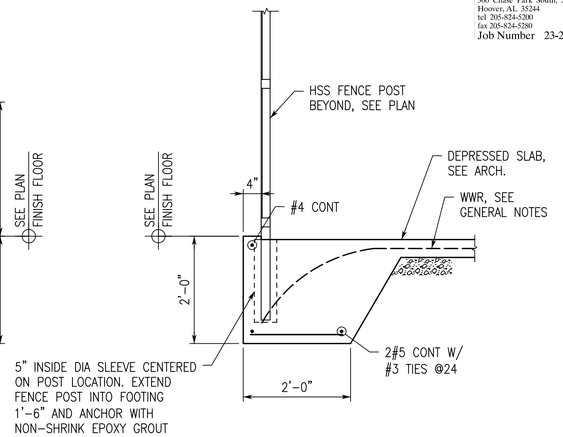
3/4"=1'-0"



SECTION 4/S3.1
3/4"=1'-0"

SECTION 5/S3.1
3/4"=1'-0"

SECTION 6/S3.1
3/4"=1'-0"

SECTION 7/S3.1
3/4"=1'-0"

SECTION 8/S3.1
3/4"=1'-0"

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
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TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER H. CRAIG WINN
H. Craig Winn P.E.
3-13-2024

SHEET TITLE:
SECTIONS AND DETAILS

PROJ. MGR.:	HCW
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JOB NO. 23-72
SHEET NO:
S3.1
12 OF 19

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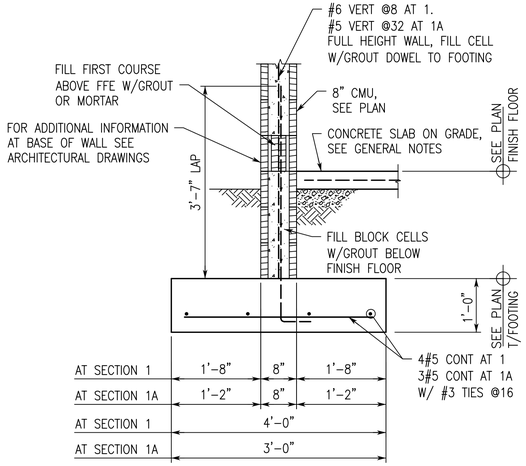

SECTION 1/S3.2 1A/S3.2
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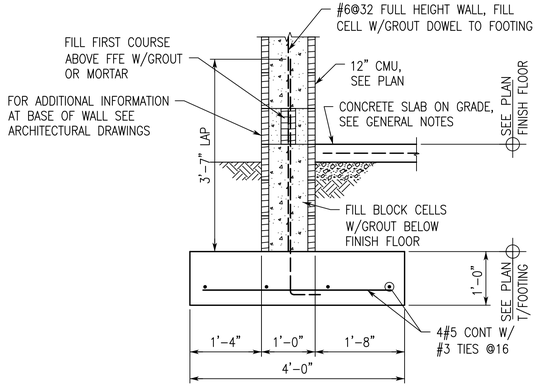

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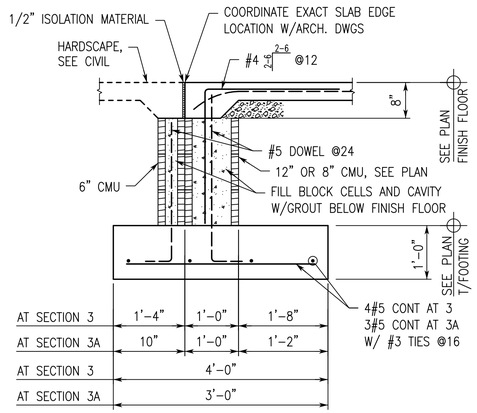

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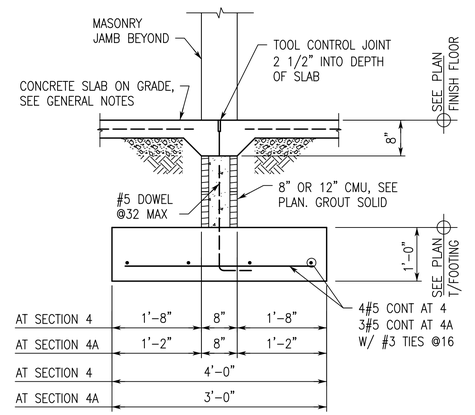

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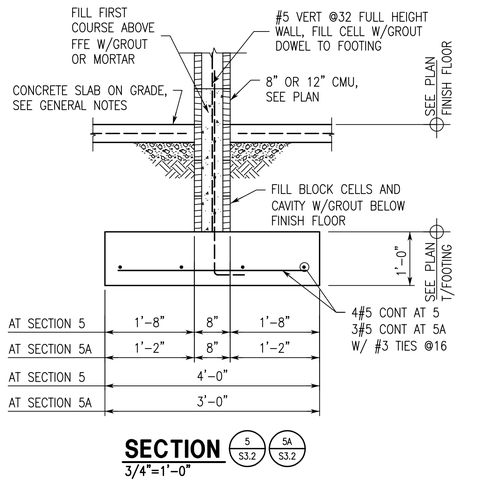

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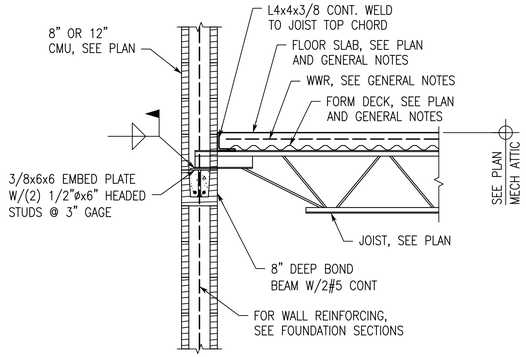

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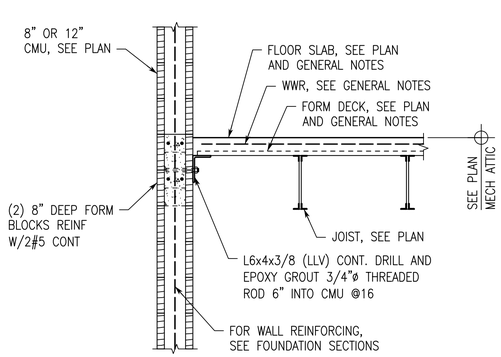

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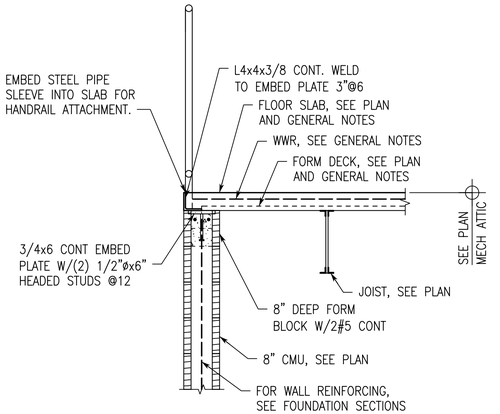

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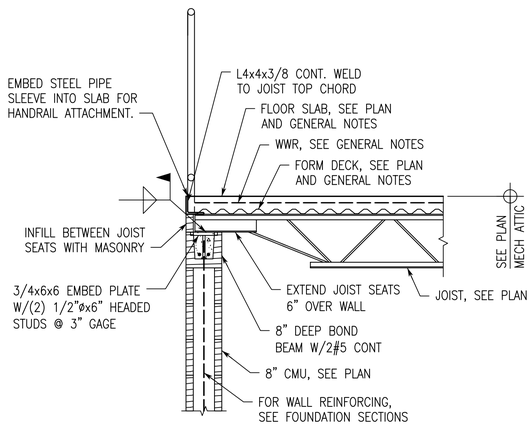

SECTION 9/S3.2
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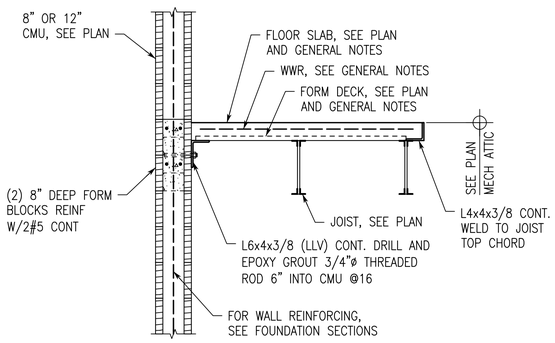

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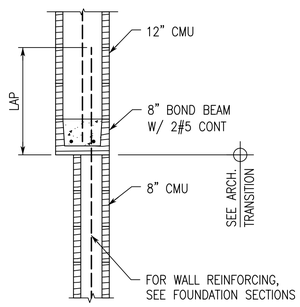

SECTION 11/S3.2
3/4"=1'-0"

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TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA REGISTERED
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PROFESSIONAL
ENGINEER
H. CRAIG WINN
H. Craig Winn P.E.
3-13-2024

SHEET TITLE:
SECTIONS
AND DETAILS

PROJ. MGR.:	HCW
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DATE:	MARCH 13, 2024
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JOB NO. 23-72
SHEET NO:
S3.2
13 OF 19

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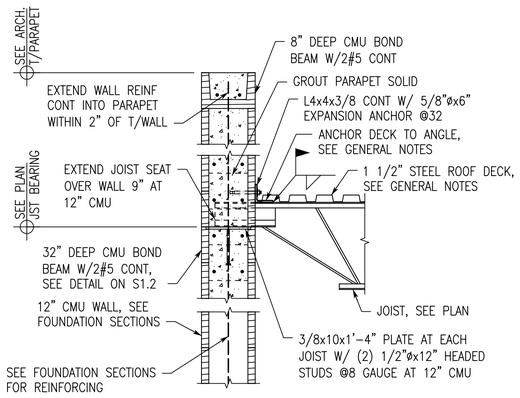

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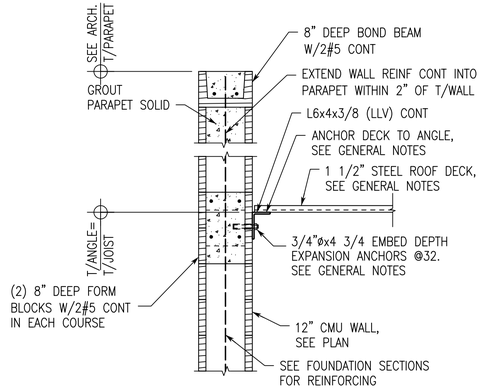
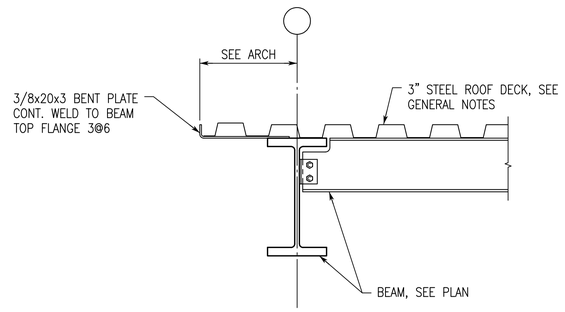
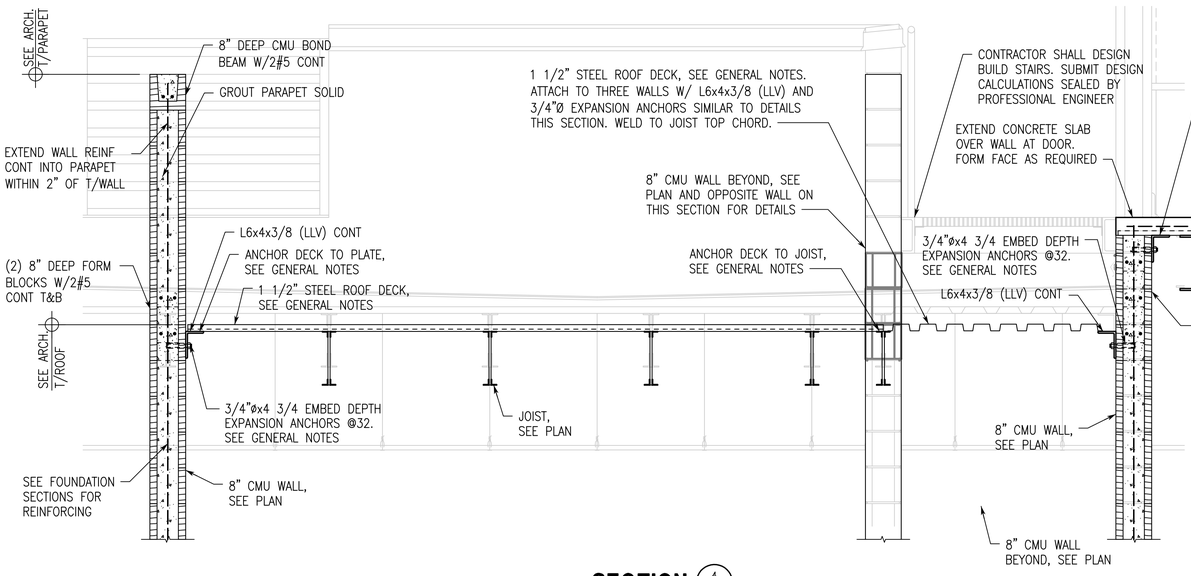


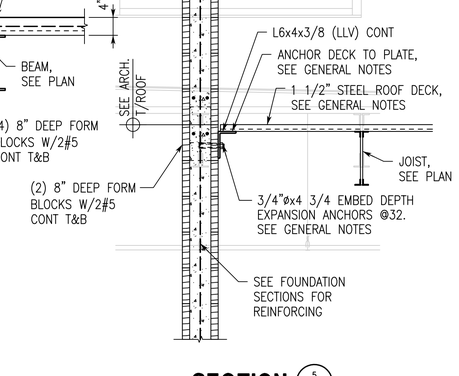
SECTION 2/S3.3
3/4"=1'-0"



SECTION 3/S3.3
3/4"=1'-0"



SECTION 4/S3.3
3/4"=1'-0"



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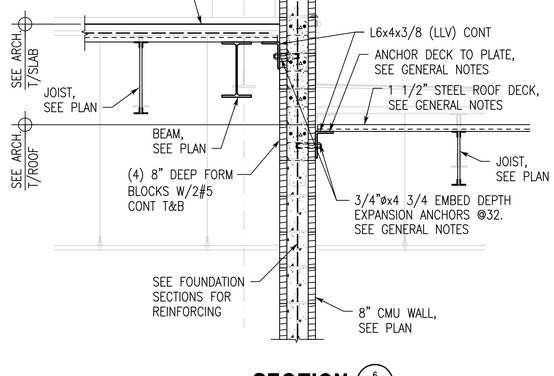
3/4"=1'-0"



SECTION 6/S3.3
3/4"=1'-0"

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NEW SOFTBALL COMPLEX FOR
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3-13-2024

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SECTIONS AND DETAILS

PROJ. MGR.:	HCW
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JOB NO. 23-72
SHEET NO:
S3.3
14 OF 19
0 1" 2"

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STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
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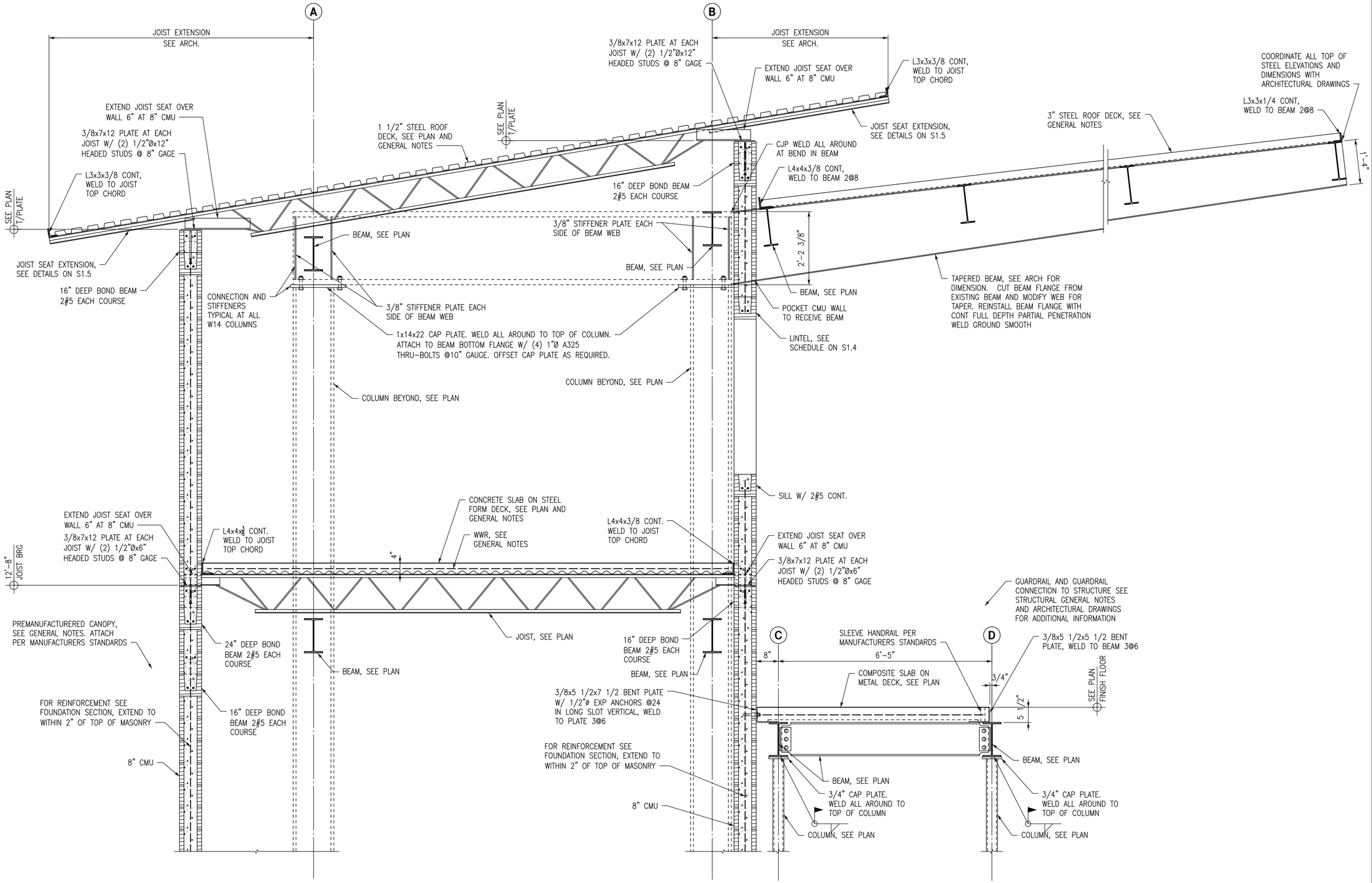

SECTION 1/S3.4
3/4"=1'-0"

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H. C. WINN, P.E.
3-13-2024

SHEET TITLE:
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AND DETAILS

PROJ. MGR.:	HCW
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SHEET NO:
S3.4
15 OF 19

0 1" 2"

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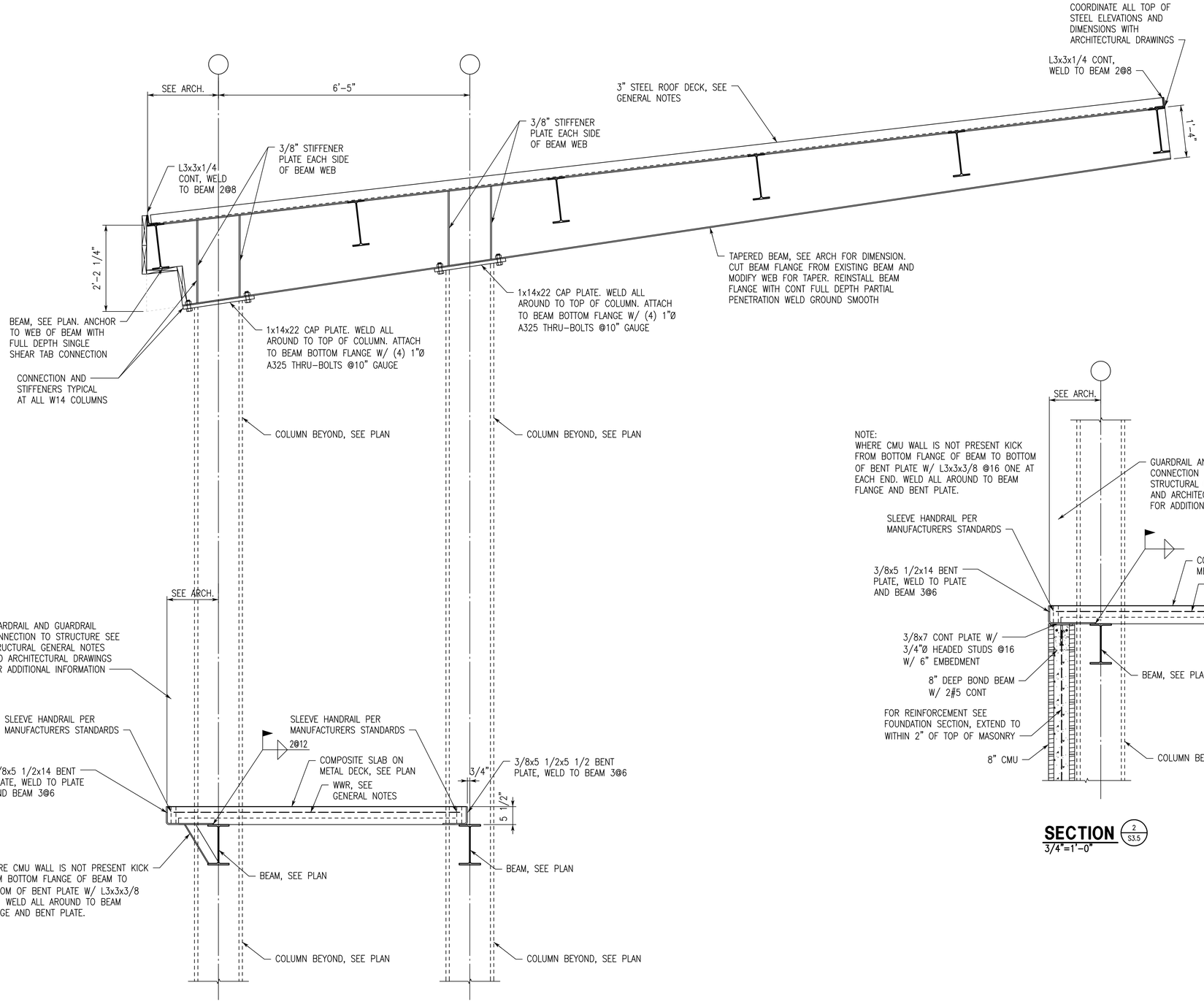


SECTION 1/S3.5
3/4"=1'-0"

NOTE:
WHERE CMU WALL IS NOT PRESENT KICK FROM BOTTOM FLANGE OF BEAM TO BOTTOM OF BENT PLATE W/ L3x3x3/8 @16 ONE AT EACH END. WELD ALL AROUND TO BEAM FLANGE AND BENT PLATE.

SECTION 2/S3.5
3/4"=1'-0"

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

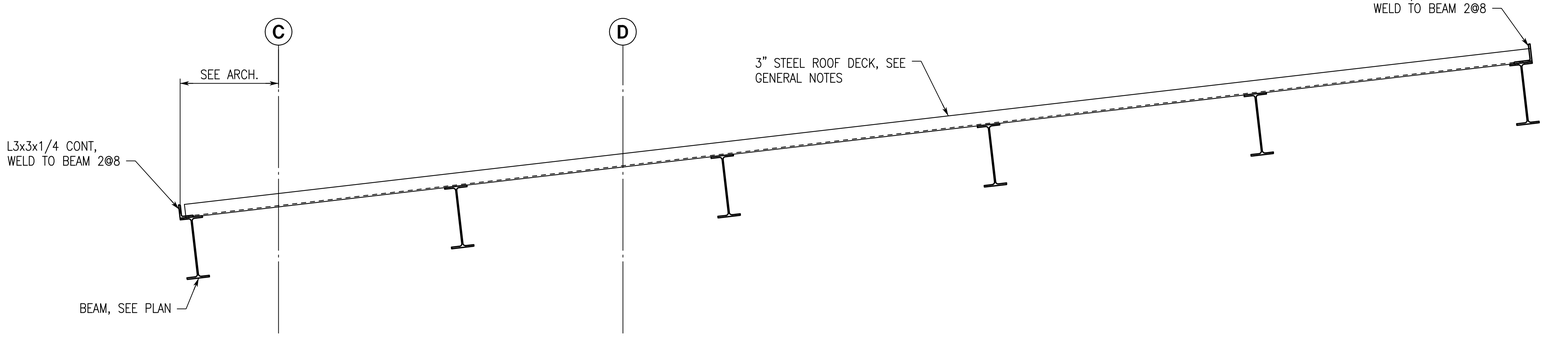
ALABAMA REGISTERED ENGINEER No. 22596 PROFESSIONAL CRAIG WINN
H. Craig Winn, P.E.
3-13-2024

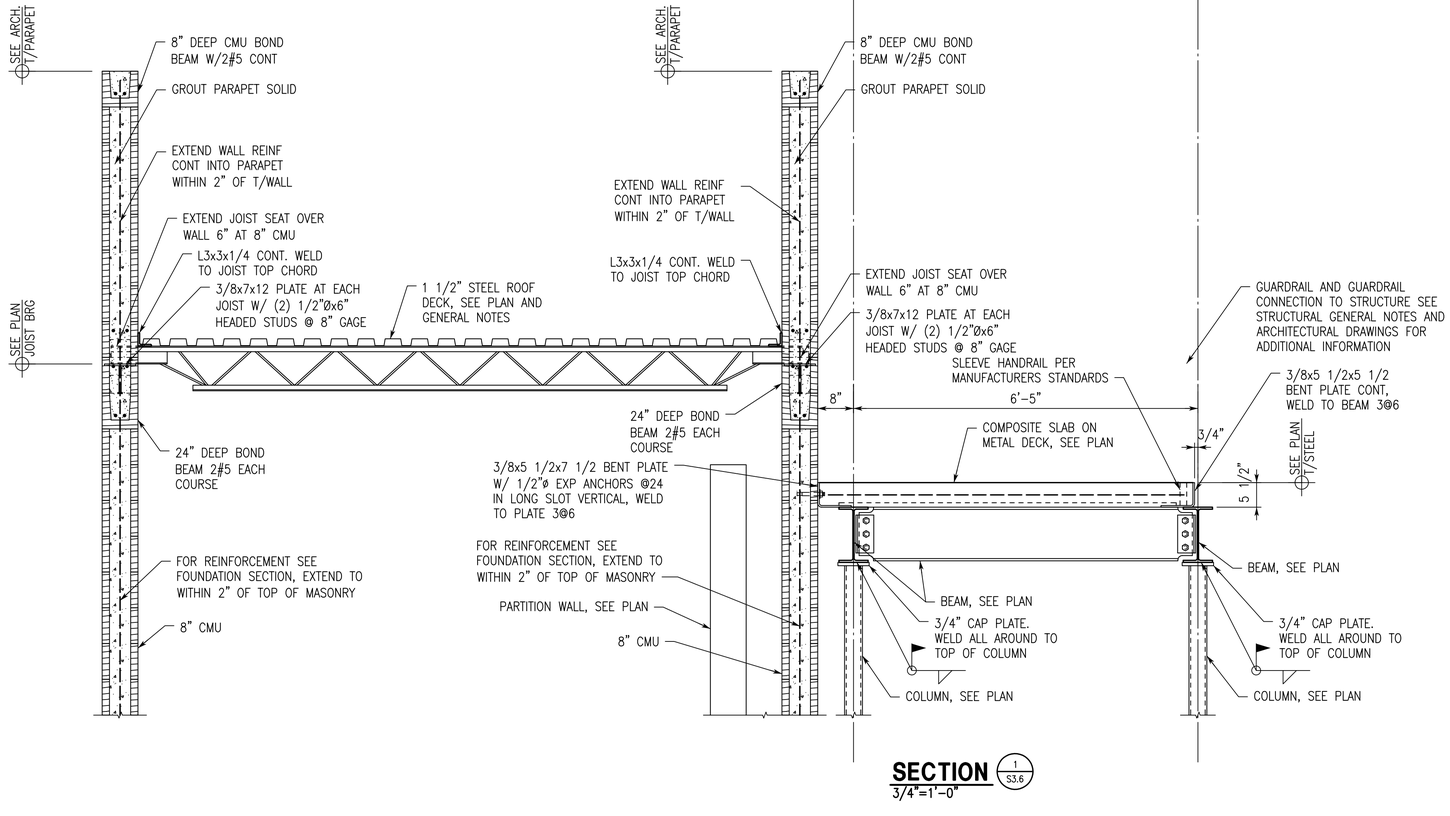
SHEET TITLE:
SECTIONS AND DETAILS

PROJ. MGR.:	HCW
DRAWN:	SPH
DATE:	MARCH 13, 2024
REVISIONS	

JOB NO. 23-72
SHEET NO:
S3.5
16 OF 19
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 23-256





SECTION 1/S3.6
3/4"=1'-0"

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
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H. Craig Winn P.E.
3-13-2024

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AND DETAILS

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S3.6
17 OF 19
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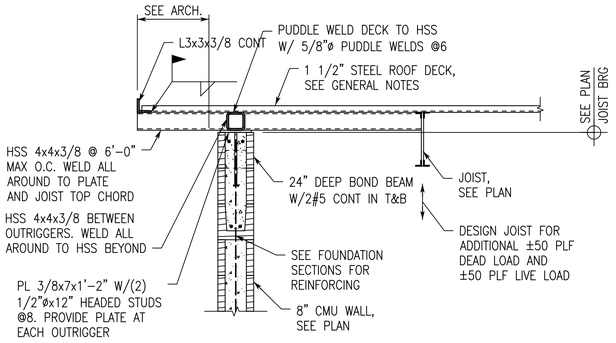
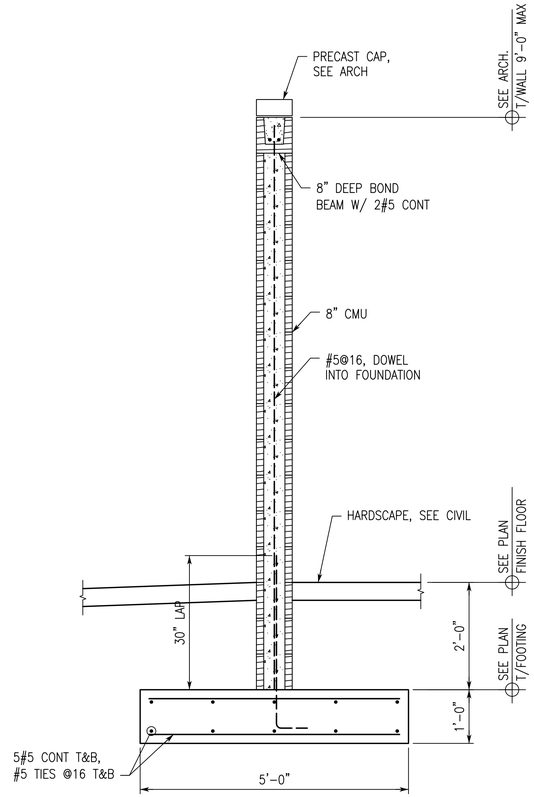
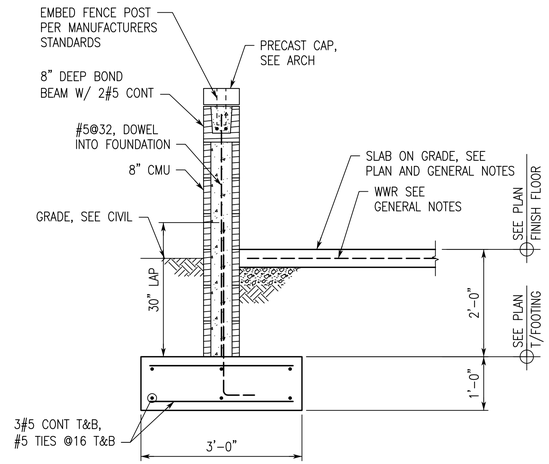


SECTION 1/S3.7
3/4"=1'-0"

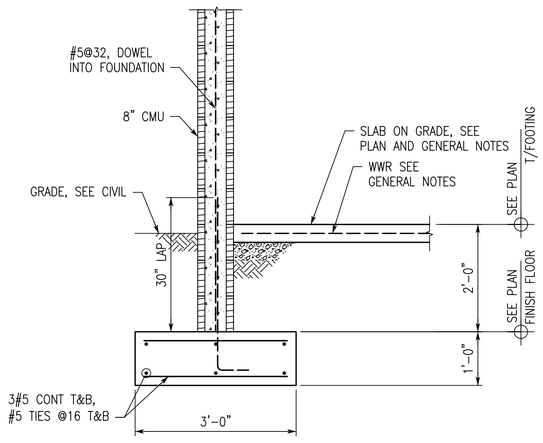


SECTION 2/S3.7
3/4"=1'-0"



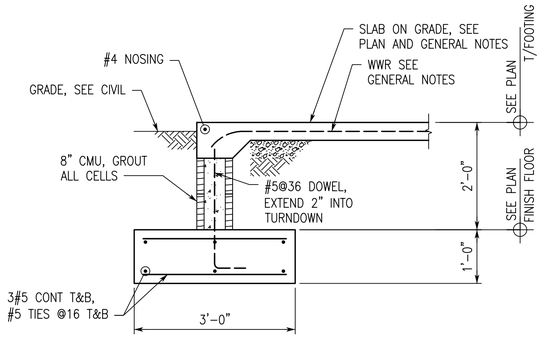
SECTION 3/S3.7
3/4"=1'-0"

AT SIMILAR CONDITION, CONT FOOTING NOT REQUIRED AND WALL IS SUPPORTED ON COLUMN FOOTING



SECTION 4/S3.7
3/4"=1'-0"

AT SIMILAR CONDITION, CONT FOOTING NOT REQUIRED AND WALL IS SUPPORTED ON COLUMN FOOTING



SECTION 5/S3.7
3/4"=1'-0"

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3-13-2024

SHEET TITLE:
SECTIONS
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PROJ. MGR.:	HCW
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JOB NO. 23-72
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S3.7
18 OF 19
0 1" 2"

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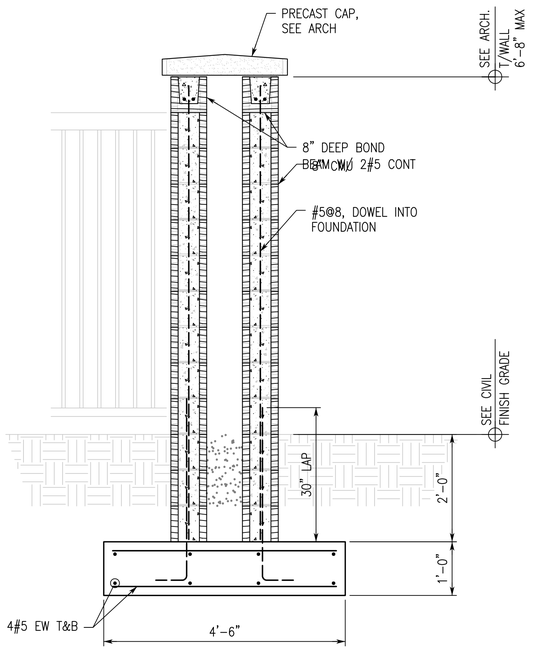
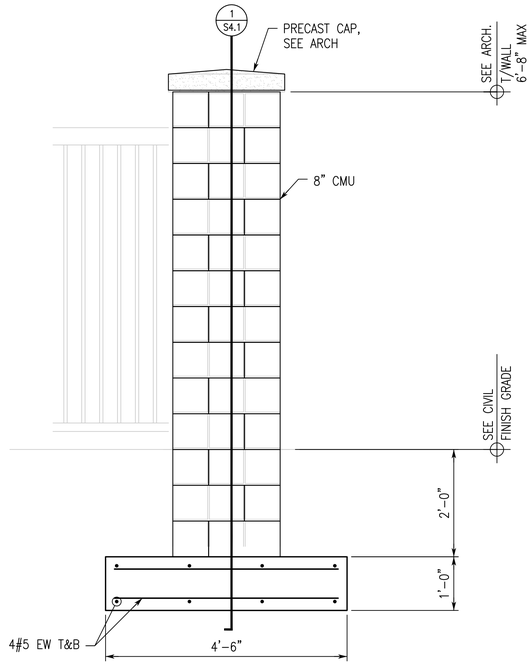
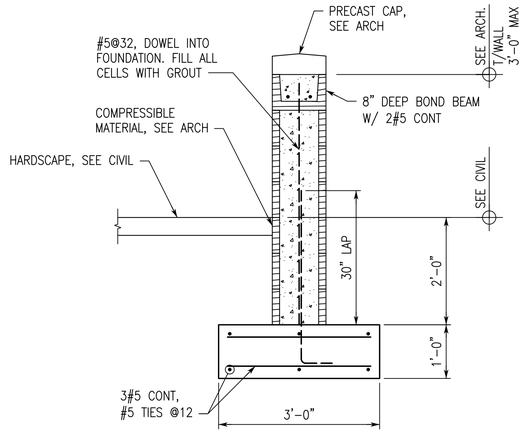


SECTION (1/S4.1)
3/4"=1'-0"



FENCE ENDS
3/4"=1'-0"



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

LATHAN ARCHITECTS

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TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER H. CRAIG WINN
H. Craig Winn P.E.
3-13-2024

SHEET TITLE:
ARCHITECTURAL PLAN DETAILS

PROJ. MGR.:	HCW
DRAWN:	SPH
DATE:	MARCH 13, 2024
REVISIONS	

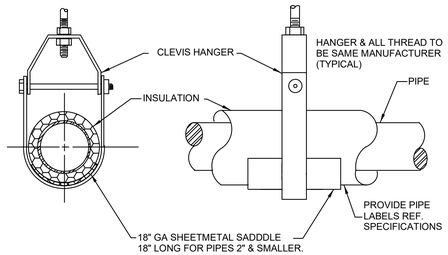
JOB NO. 23-72
SHEET NO:
S4.1
19 OF 19
0 1" 2"

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"X16" 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 WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF THE EXTERIOR WALL INSULATION.
9. NO VENT THRU ROOF IS TO BE LOCATED WITHIN 10 FEET OF ANY BUILDING AIR INTAKES, PER CODE. COORDINATE WITH MECHANICAL AND GENERAL CONTRACTORS.
10. DOMESTIC WATER PIPING AND FIRE PROTECTION PIPING LOCATED ABOVE THE CEILING, SHALL BE INSTALLED BELOW CEILING INSULATION.
11. CONTRACTOR SHALL COORDINATE ALL SINKS WITH CASEWORK PRIOR TO ORDERING SINKS.
12. PROVIDE DISINFECTION OF WATER PIPING SYSTEM WITH CHLORINE SOLUTION AS PER CODE.
13. INSTALLATION OF BACKFLOW PREVENTER SHALL COMPLY WITH CURRENT INTERNATIONAL BUILDING CODE AND CURRENT INTERNATIONAL PLUMBING CODE.
14. ALL OVERHEAD WATER PIPING TO BE RUN BELOW INSULATION AT BOTTOM OF TRUSSES FOR FREEZE PROTECTION.
15. INSULATION ON ALL PIPING SHALL MEET SMOKE/ FLAME RATING OF 25 & 50.
16. NO JOINTS IN WATER PIPING BELOW SLAB.
17. 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.
18. WATER HAMMER ARRESTORS ARE REQUIRED TO PROTECT WATER PIPING SYSTEMS WHERE QUICK-CLOSING VALVES ARE UTILIZED. WATER HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010.
19. 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.
20. 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.
21. COORDINATE ALL PLUMBING IN SLAB WITH BUILDING FOOTINGS.
22. NO PIPING TO BE RUN ABOVE ELECTRICAL PANELS. MAINTAIN ALL REQUIRED CLEARANCES.
23. 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.
24. SUPPORT PIPE AS REQUIRED BY THE CURRENT INTERNATIONAL PLUMBING CODE.
25. FIRESTOP ALL RATED WALL AND FLOOR PENETRATIONS. SEE ARCHITECTURAL DRAWINGS FOR RATED WALL AND FLOOR LOCATIONS.
26. OFFSET ALL VTR'S TO BACKSIDE OF ROOF RIDGE.
27. 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).

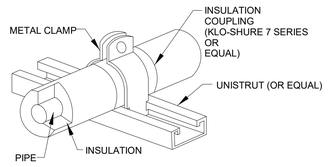
PLUMBING LEGEND

———	DOMESTIC COLD WATER		BALL VALVE
———	DOMESTIC HOT WATER SUPPLY		CAP ON END OF PIPE
———	DOMESTIC HOT WATER RETURN	TYP	TYPICAL
———	SOIL, WASTE, OR SANITARY SEWER	CO	CLEANOUT
———	VENT	FD	FLOOR DRAIN
———	PIPE TURNING DOWN	P-#	PLUMBING FIXTURE
———	PIPE TURNING UP	VS	VENT STACK
———	TEE DOWN	VSTR	VENT THROUGH ROOF
———	TEE UP	MFD	MECHANICAL FLOOR DRAIN
G	NATURAL GAS	WS	WASTE STACK
S	STORM PIPING	HWR	HOT WATER RETURN
CW	COLD WATER	HW	HOT WATER
DN	DOWN	ABV	ABOVE
WH - #	WATER HEATER	AFF	ABOVE FINISHED FLOOR
EX	EXISTING	BFF	BELOW FINISHED FLOOR



SUSPENDED PIPE SUPPORT

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

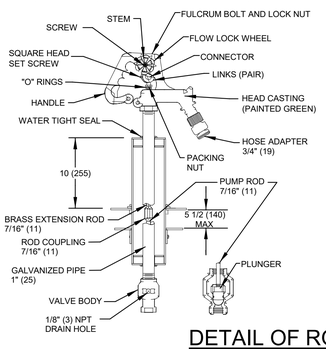
NO SCALE

PLUMBING FIXTURE SCHEDULE

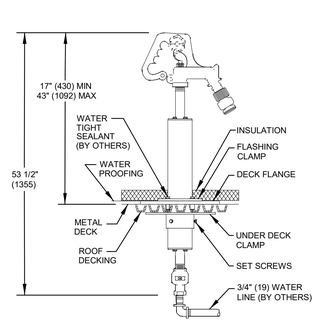
MARK	FIXTURE	WASTE	CW	HW	REMARKS
DD	DECK DRAIN	4"	-	-	J.R. SMITH #1470, COMPLETE WITH SUMP RECEIVER AND UNDER DECK CLAMP. DRAIN TO DISCHARGE TO DRAIN INLET BELOW.
DSN	DOWNSPOUT NOZZLE	SEE PLAN	-	-	J.R. SMITH #1770 DOWNSPOUT NOZZLE WITH BIRDSCREEN. COORDINATE EXACT LOCATION WITH ARCHITECT.
FD	FLOOR DRAIN	3"	-	-	J.R. SMITH #2010 WITH 6" ROUND NICKEL BRONZE GRATE. PROVIDE WITH J.R. SMITH TRAP INSERT.
FS-1	FLOOR SINK	4"	-	-	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.
HB-1	HOSE BIBB	-	3/4"	-	ZURN Z1321 NARROW WALL HYDRANT WITH INTEGRAL BACKFLOW PREVENTER. PROVIDE OWNER WITH ONE (1) LOOSE KEY PER HOSE BIBB.
HB-2	HOSE BIBB	-	3/4"	-	EVERFLOW 46124-NL BRASS BODY WITH T-HANDLE AND PLAIN END, HOSE BIBB SHALL NOT HAVE HOSE THREADS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SUPPORT PIPING AND HOSE BIBB WITH UNI-STRUT MOUNTED TO THE STRUCTURE.
MFD	MECHANICAL FLOOR DRAIN	4"	-	-	J.R. SMITH #2242 WITH SEDIMENT BUCKET. PROVIDE WITH J.R. SMITH TRAP INSERT.
OD	OVERFLOW DRAIN	SEE PLAN	-	-	J.R. SMITH #1080, COMPLETE WITH SUMP RECEIVER, UNDER DECK CLAMP, 2" EXTERNAL DAM, AND CAST IRON OR ALUMINUM DOME.
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	URINAL - ADA COMPLIANT	2"	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-4	LAVATORY - ADA COMPLIANT	1 1/4"	1/2"	1/2"	WALL HUNG - KOHLER K-2032 (20" X 18") COMPLETE, SYMMONS S-20-0 0.5 GPM 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-5	LAVATORY	1 1/4"	1/2"	1/2"	WALL HUNG - KOHLER K-2032 (20" X 18") COMPLETE, SYMMONS S-20-0 0.5 GPM 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-6	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-7	WATER COOLER - ADA COMPLIANT	1 1/2"	1/2"	-	ELKAY # VRCTLSCFR8SC BI-LEVEL WATER COOLER WITH BOTTLE FILLER STATION. STAINLESS STEEL CABINET AND WATERWAYS THAT ARE MANUFACTURED OF 100% LEAD FREE MATERIAL, J.R. SMITH #834 FIXTURE SUPPORT. BALL VALVE STOP WITH SUPPLY. SAFETY-GUARD BUBBLER. MCGUIRE FULLY INSULATE P-TRAP. MOUNT WITH LOWER SPOUT OUTLET AT 36" AFF. MUST MEET A.D.A. PROVIDE WITH COLOR CHART FOR ARCHITECT COLOR SELECTION. PROVIDE CANE APRON AS REQUIRED.
P-8	DOUBLE BOWL SINK	1 1/2"	1/2"	1/2"	ELKAY LRAD-3321, LK-35 STRAINERS, SYMMONS S-23-3 FAUCET. MCGUIRE #8912 P-TRAP, CONTINUOUS WASTE OUTLET, AND #165 STOPS WITH SUPPLIES.
P-9	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.
P-10	SHOWER VALVE - ADA COMPLIANT	-	1/2"	1/2"	CHICAGO FAUCET 1907-CP THERMOSTATIC/PRESSURE BALANCING SHOWER VALVE, 151-ACP HAND SHOWER AND GRAB BAR, 763-CP DIVERTER VALVE, FIXED SHOWER HEAD, WITH BLADE HANDLE, AND TRIM. ADJUST FOR 109°F MAXIMUM TEMP. PROVIDE BACK PLATE.
P-11	SHOWER VALVE	-	1/2"	1/2"	CHICAGO FAUCET 1907-CP THERMOSTATIC/PRESSURE BALANCING SHOWER VALVE, FIXED SHOWER HEAD, WITH BLADE HANDLE, AND TRIM. ADJUST FOR 109°F MAXIMUM TEMP. PROVIDE BACK PLATE.
P-12	WATER COOLER - ADA COMPLIANT	1 1/2"	1/2"	-	ELKAY #EDFPBVM117FPK BI-LEVEL WATER COOLER. STAINLESS STEEL CABINET AND WATERWAYS THAT ARE MANUFACTURED OF 100% LEAD FREE MATERIAL, J.R. SMITH #834 FIXTURE SUPPORT. BALL VALVE STOP WITH SUPPLY. SAFETY-GUARD BUBBLER. MCGUIRE FULLY INSULATE P-TRAP. MOUNT WITH LOWER SPOUT OUTLET AT 36" AFF. MUST MEET A.D.A. PROVIDE WITH COLOR CHART FOR ARCHITECT COLOR SELECTION. PROVIDE CANE APRON AS REQUIRED.
RD	ROOF DRAIN	SEE PLAN	-	-	J.R. SMITH #1011, COMPLETE WITH SUMP RECEIVER AND UNDER DECK CLAMP, AND CAST IRON OR ALUMINUM DOME. PROVIDE 4" HIGH, 1/16: THICK PERFORATED STAINLESS STEEL GRAVEL TRAP AROUND DOME.
RH	ROOF HYDRANT	-	3/4"	-	JR SMITH #5906-H WITH DRAIN TUBE PIPED TO NEAREST DRAIN. DRAIN PIPE TO BE COPPER TO THE NEAREST DRAIN OR JANITORS RECEPTOR.
SD	SHOWER DRAIN	2"	-	-	J.R. SMITH #2010 WITH 4" ROUND STRAINER. PROVIDE WITH J.R. SMITH TRAP INSERT.
WH	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.

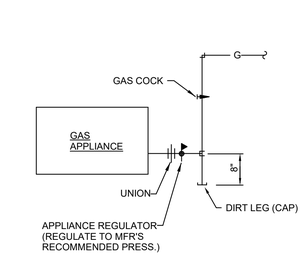
WATER HEATER SCHEDULE

MARK	FIXTURE	ELEC INFO.	GAS INPUT	REMARKS
CP-1	CIRCULATION PUMP	1/12 HP, 115/1/60.	-	ARMSTRONG COMPASS. PROVIDE WITH TIMER AND AQUASTAT EQUAL TO HONEYWELL L6006A.
CP-2	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.
ET-2	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.
MMV-1	MASTER MIXING VALVE	-	-	SYMMONS TEMPCONTROL 7-500A-W COMPLETE. WALL MOUNTING BRACKET. SET OUTLET TEMPERATURE AT 125°F.
WH-1	ELECTRIC WATER HEATER	208V; 3 PHASE; 12KW	-	LOCHINVAR HST12080, 80 GALLON STORAGE, 49 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.
WH-2	GAS WATER HEATER	120V CONTROL PANEL	199.9 CFH	LOCHINVAR SWR200N CAPABLE OF RAISING 233 GALLONS OF WATER FROM 40°F TO 140°F PER HOUR. 199,999 CFH. PROVIDE NEW P& T RELIEF VALVE. PROVIDE COMPLETE WITH CONDENSATE NEUTRALIZATION KIT, CONCENTRIC VENT KIT, AND LOW WATER CUTOFF. INSTALL AS DETAILED ON DRAWINGS. SET TEMPERATURE CONTROLS TO MAINTAIN WATER STORAGE TEMPERATURE OF 140°F. INSTALL AS DETAILED ON DRAWINGS. ELECTRICAL REQUIREMENTS FOR CONTROL PANEL 115/1/60. COORDINATE WITH ELECTRICAL SECTION.



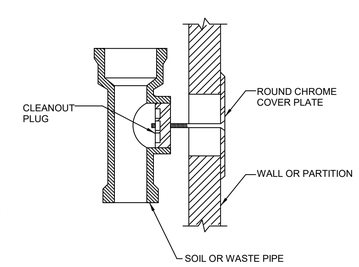
DETAIL OF ROOF HYDRANT





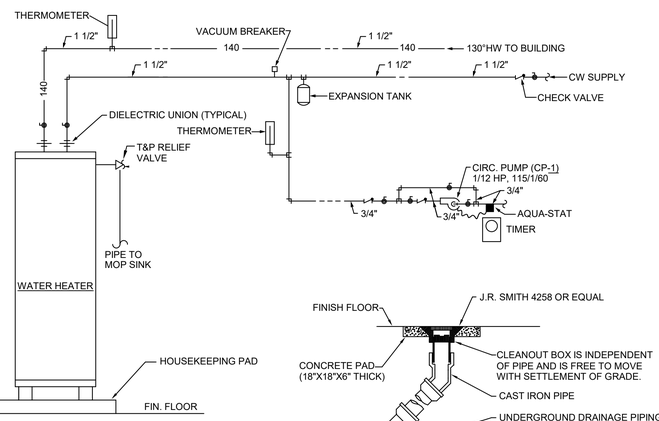
TYP. GAS CONNECTION

NO SCALE



WALL CLEANOUT

NO SCALE

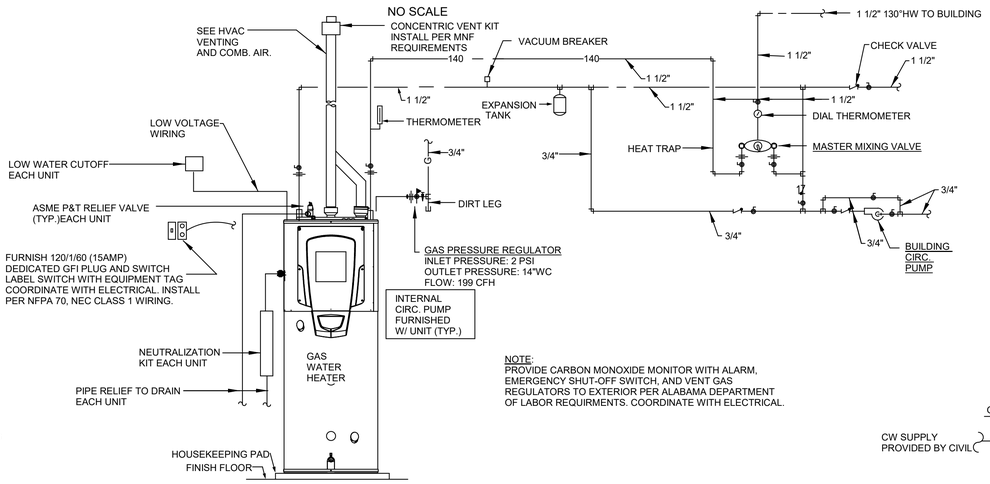


DETAIL OF WATER HEATER WH-1

NO SCALE

DETAIL OF CLEANOUT TO GRADE

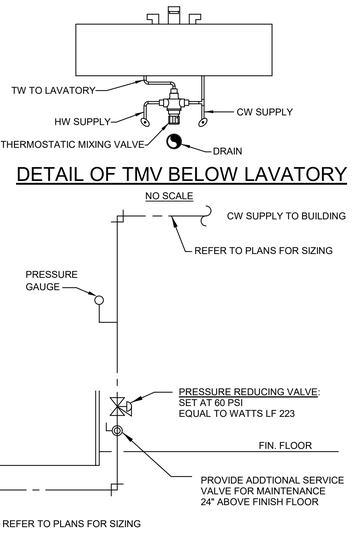
NO SCALE



DETAIL OF WATER HEATER WH-2

NOTE:
PROVIDE CARBON MONOXIDE MONITOR WITH ALARM, EMERGENCY SHUT-OFF SWITCH, AND VENT GAS REGULATORS TO EXTERIOR PER ALABAMA DEPARTMENT OF LABOR REQUIRMENTS. COORDINATE WITH ELECTRICAL.

NO SCALE



DETAIL OF TMV BELOW LAVATORY

NO SCALE

DETAIL OF WATER ENTRY

NO SCALE

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NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA
No. 24747
PROFESSIONAL
3/13/2024
ENGINEER
WADE STEWART

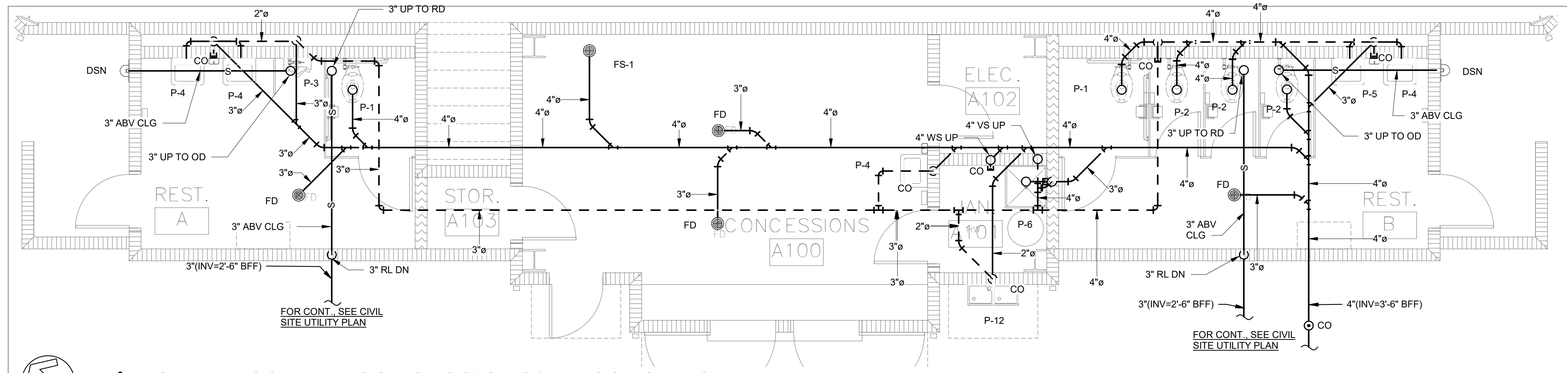
SHEET TITLE:
PLUMBING - LEGENDS, NOTES, SCHEDULES, & DETAILS

PROJ. MGR.:	SMC
DRAWN:	ADH
DATE:	03/13/2024
REVISIONS	

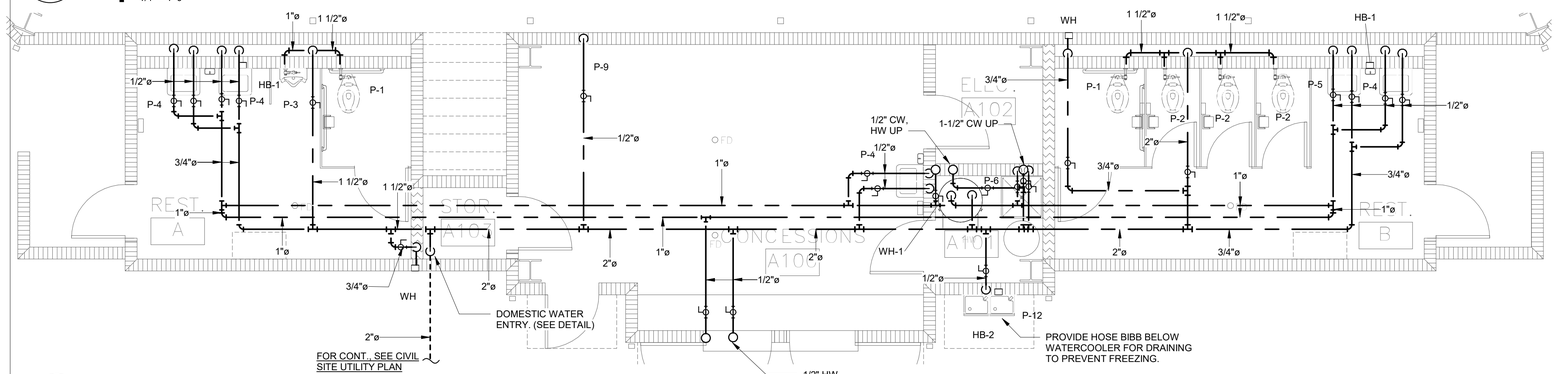
JOB NO. 23-72

SHEET NO: P0.1

1 OF 5



1 NON-PRESSURE - CONCESSIONS/PRESSBOX LOWER LEVEL
1/4" = 1'-0"



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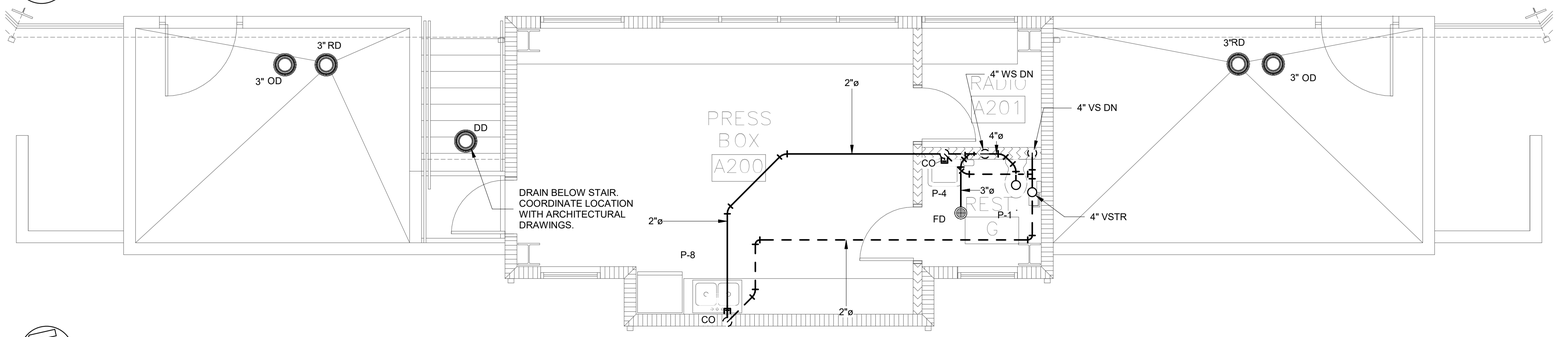
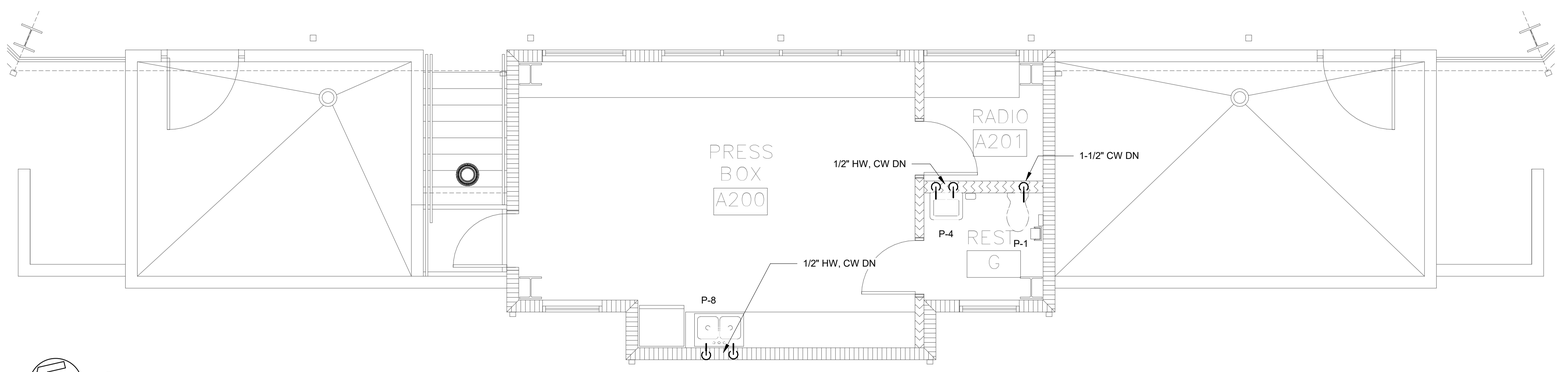


3 NON-PRESSURE - CONCESSIONS/PRESSBOX UPPER LEVEL
1/4" = 1'-0"



4 PRESSURE - CONCESSIONS/PRESSBOX UPPER LEVEL
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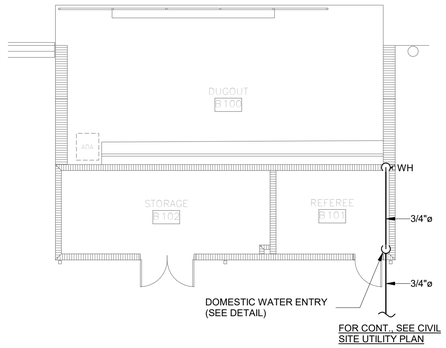
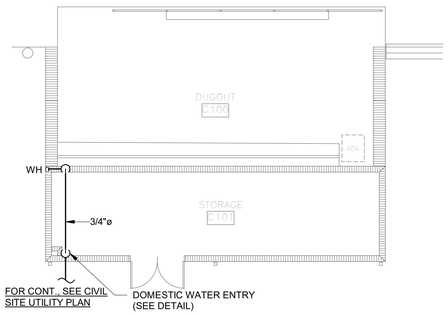


5 PRESSURE - HOME DUGOUT FLOOR PLAN
1/8" = 1'-0"



6 PRESSURE - VISITOR DUGOUT FLOOR PLAN
1/8" = 1'-0"

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PLUMBING - CONCESSIONS/DUGOUTS FLOOR PLANS

PROJ. MGR.:	SMC
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DATE:	03/13/2024
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JOB NO. 23-72

SHEET NO: P1.1

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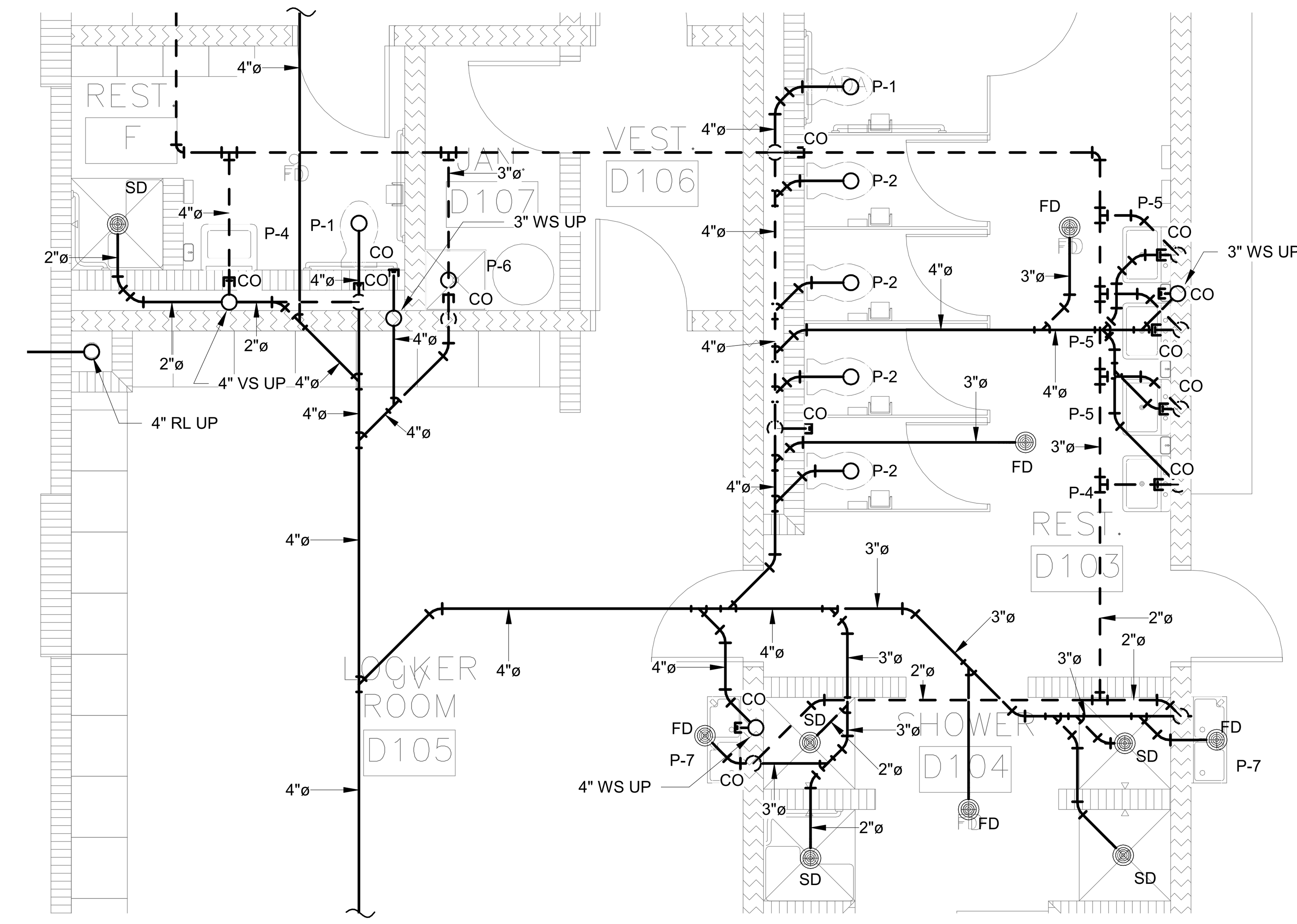
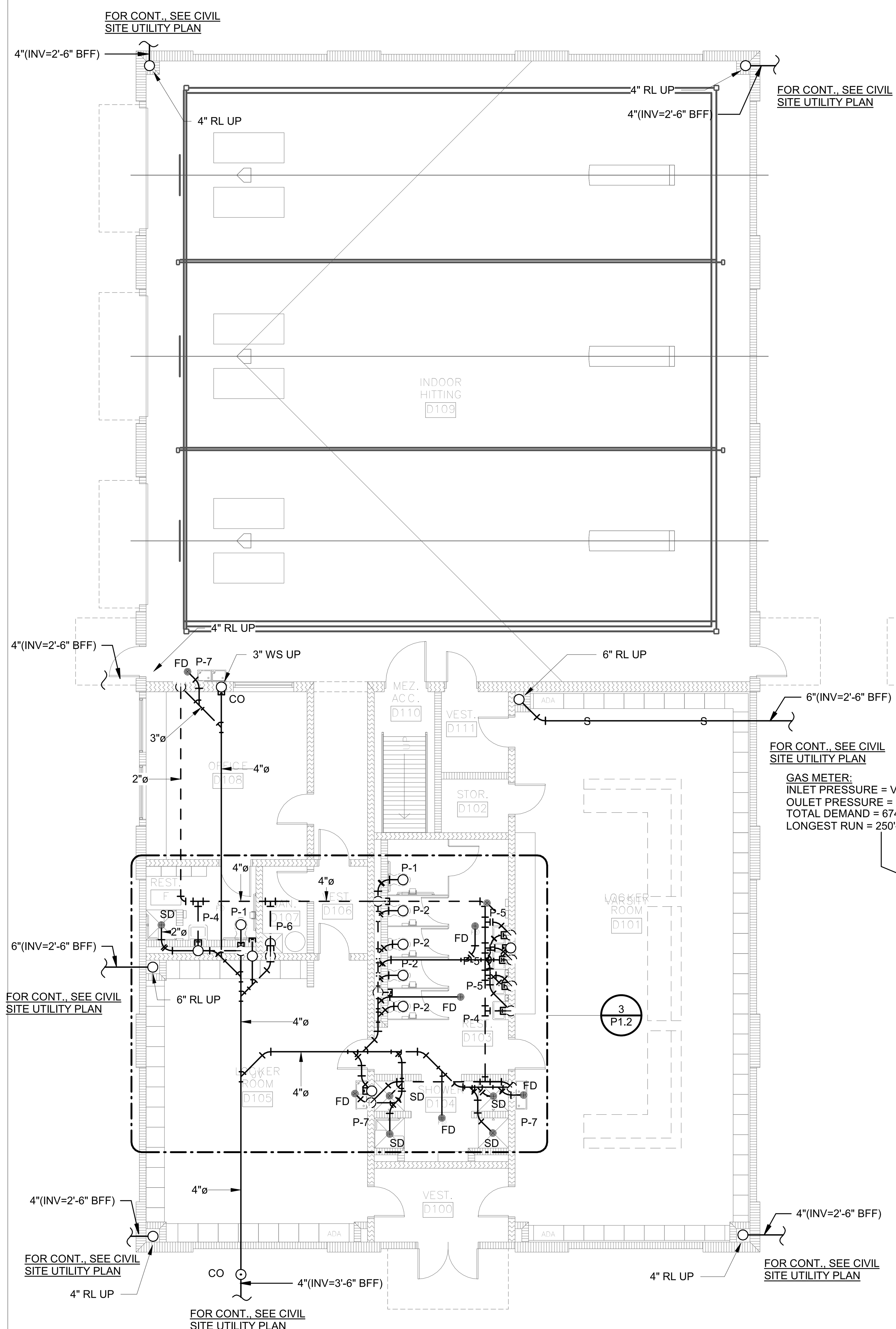
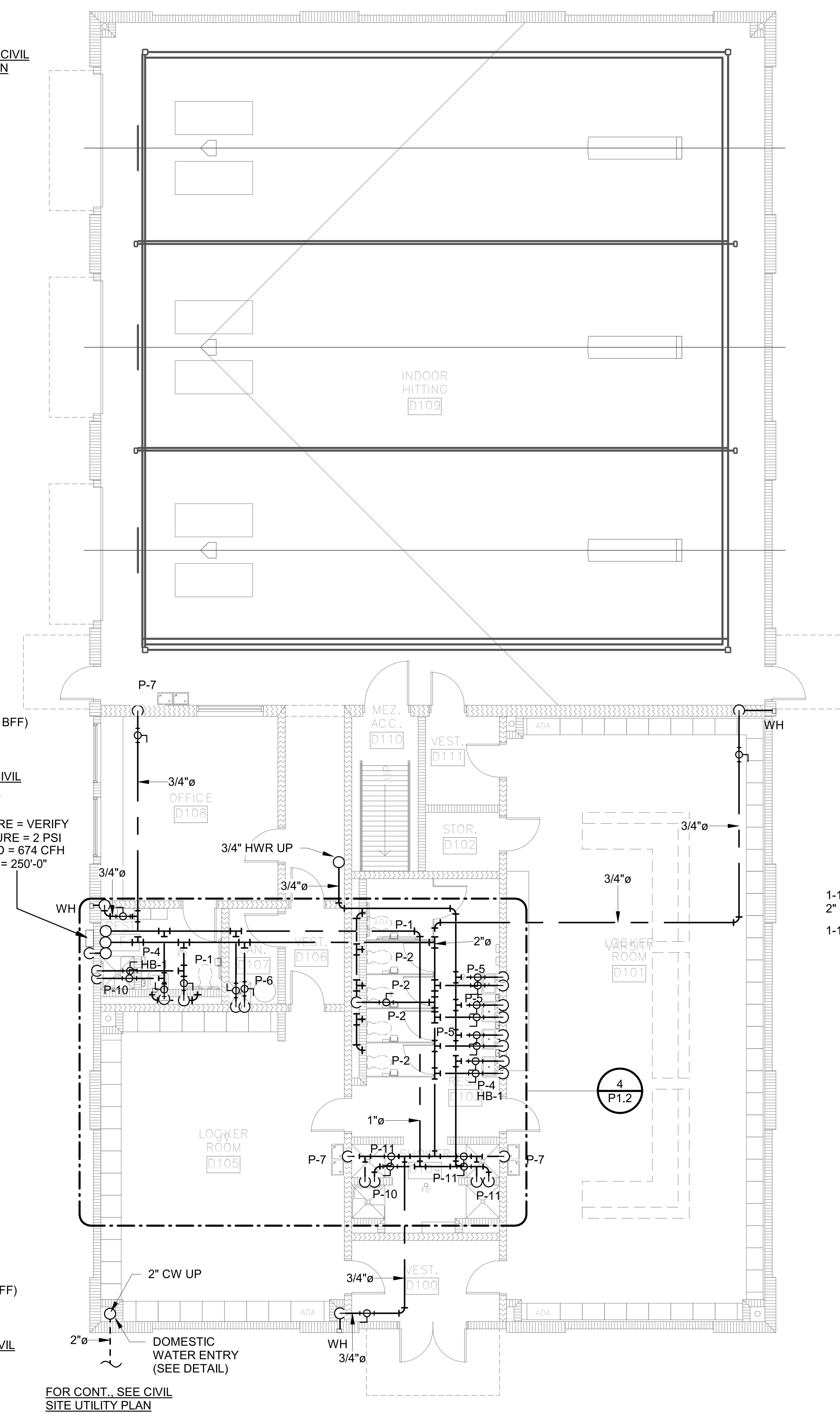


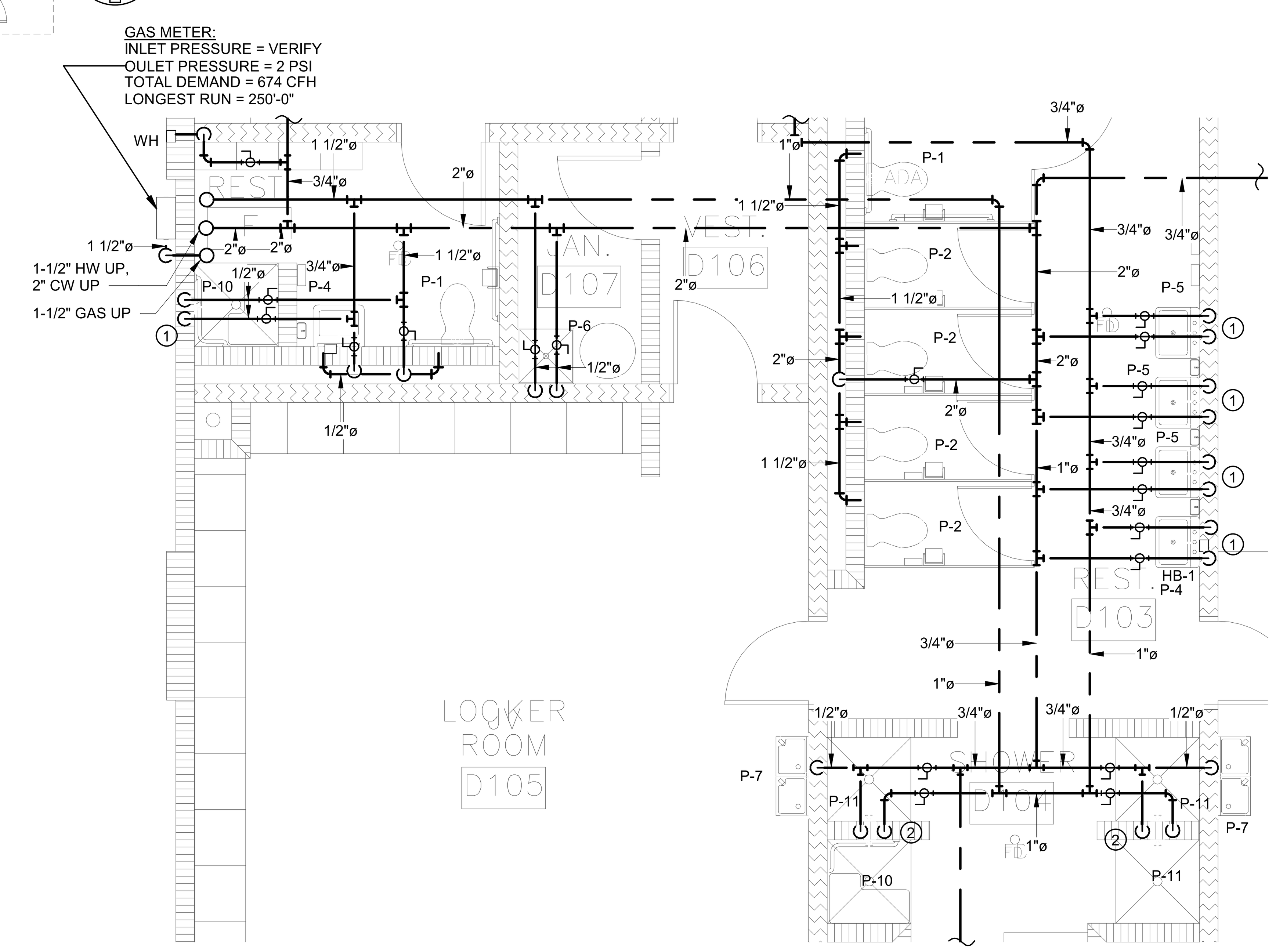
3 NON-PRESSURE - ENLARGED - HIT HOUSE LOWER LEVEL
1/4" = 1'-0"



1 NON-PRESSURE - HIT HOUSE LOWER LEVEL
1/8" = 1'-0"



2 PRESSURE - HIT HOUSE LOWER LEVEL
1/8" = 1'-0"



4 PRESSURE - ENLARGED - HIT HOUSE LOWER LEVEL
1/4" = 1'-0"

PRESSURE KEY NOTES

1. 1/2" CW & HW DN
2. 3/4" CW & HW DN

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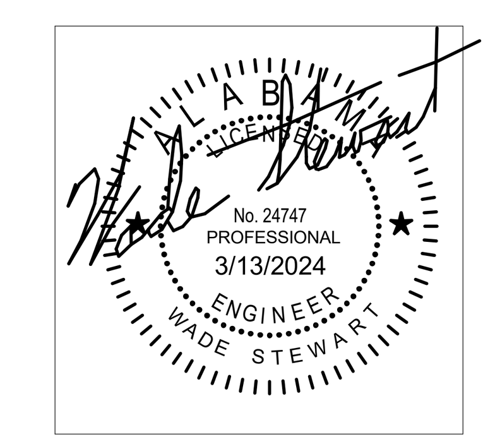

SHEET TITLE:
PLUMBING - HIT HOUSE FLOOR PLANS

PROJ. MGR.:	SMC
DRAWN:	ADH
DATE:	03/13/2024
REVISIONS	

JOB NO. 23-72

SHEET NO.: P1.2

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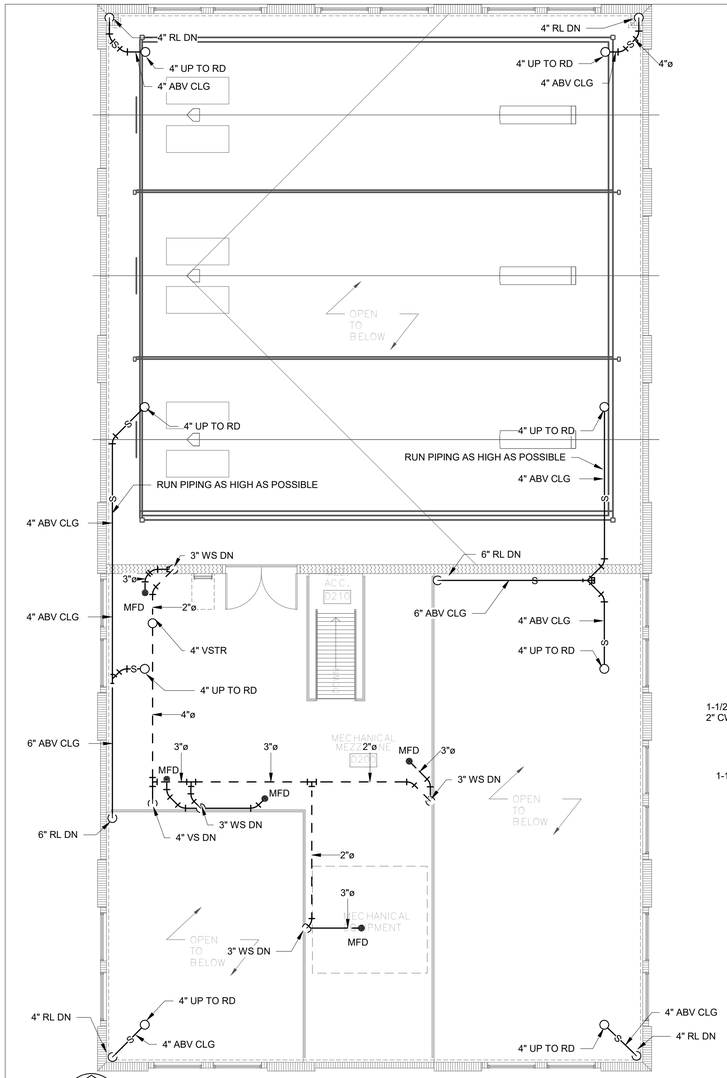
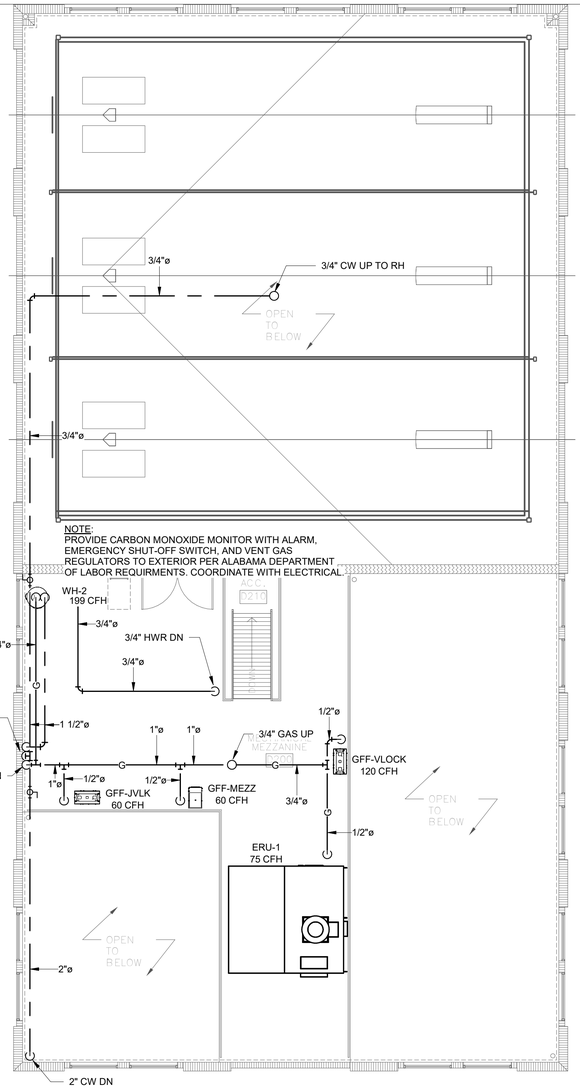


1 NON-PRESSURE - HIT HOUSE UPPER LEVEL
1/8" = 1'-0"



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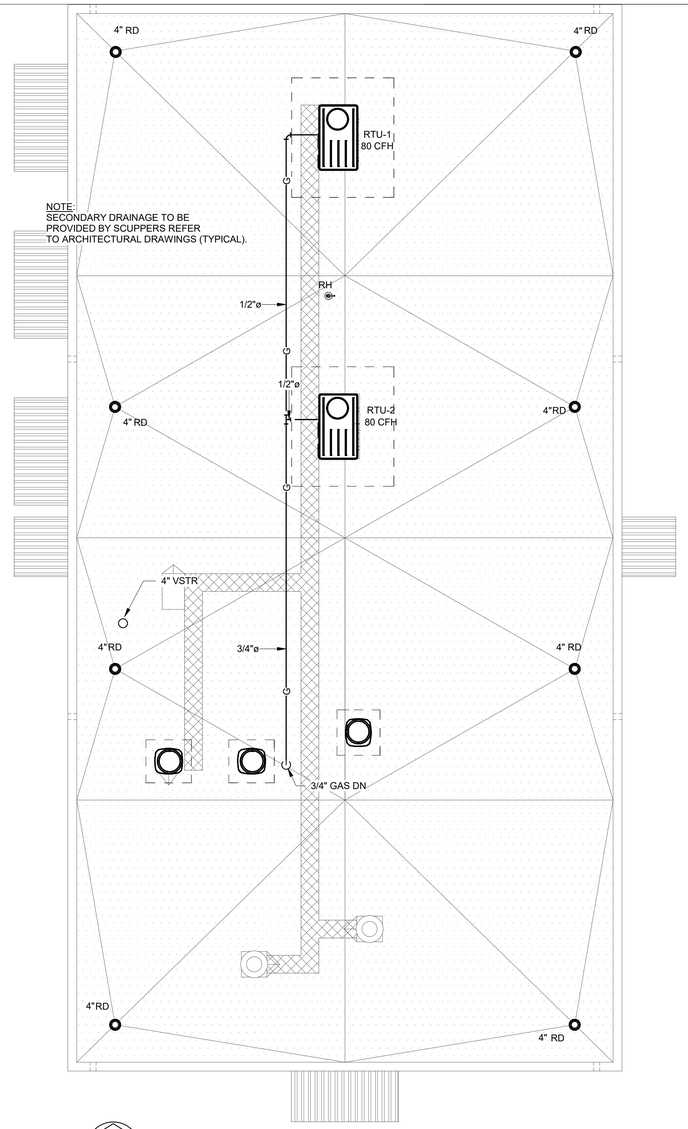
1/8" = 1'-0"



3 PLUMBING - HIT HOUSE ROOF LEVEL
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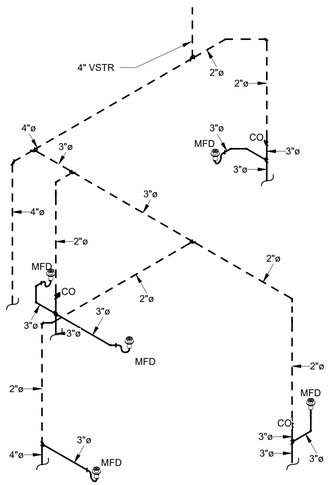
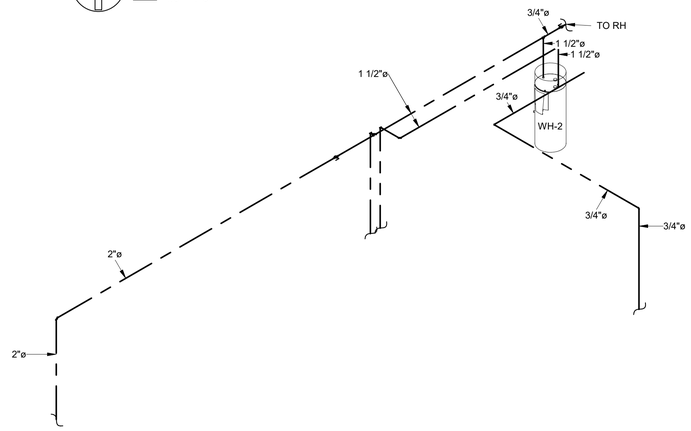


5 NON-PRESSURE RISER - HIT HOUSE - UPPER LEVEL



4 PRESSURE RISER - HIT HOUSE UPPER LEVEL

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SHEET TITLE:
PLUMBING - HIT HOUSE
FLOOR PLANS

PROJ. MGR.:	SMC
DRAWN:	ADH
DATE:	03/13/2024
REVISIONS	

JOB NO. 23-72

SHEET NO:
P1.3
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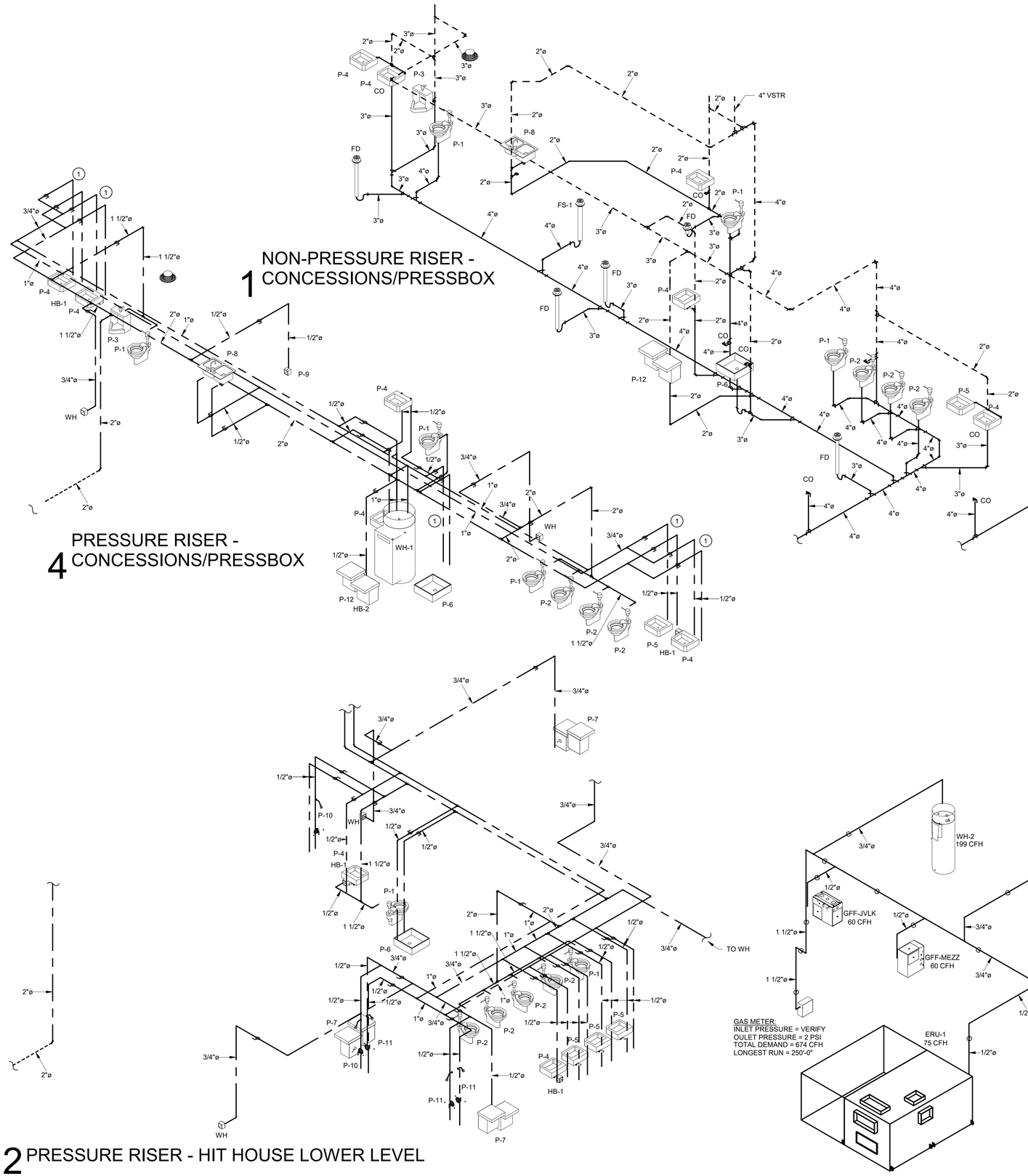

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SHEET NO:

P2.1

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HVAC GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

13. PROVIDE ALL NECESSARY RELAYS, SWITCHES, SENSORS, LOW VOLTAGE CONTROL WIRING, ACTUATORS, ETC. FOR A COMPLETE AND FUNCTIONAL BAS CONTROLS SYSTEM.

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

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

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

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
	FLAT OVAL TURNING UP.
	FLAT OVAL TURNING DOWN.
	ROUND DUCT TURNING DOWN
	ROUND DUCT TURNING UP
	MAXIMUM 5' FLEXIBLE DUCT ALL BRANCH DUCTS
	RECTANGULAR 90° ELBOW WITH TURNING VANES FOR SUPPLY.
	RISE OR DROP IN DUCT
	RECTANGULAR BRANCH OFF OF RECTANGULAR DUCT WITH MANUAL DAMPER
	CONICAL SPIN-IN WITH MANUAL DAMPER
MD	MANUAL DAMPER
FD	FIRE DAMPER (PROVIDE ACCESS DOOR)
AD	AUTOMATIC DAMPER
SFD	COMBINATION SMOKE/FIRE DAMPER (PROVIDE ACCESS DOOR)
T	TEMPERATURE SENSOR
H	HUMIDITY SENSOR
C	CO2 MONITOR
	CONNECT TO EXISTING, FIELD VERIFY EXACT SIZE AND LOCATION.

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

HVAC CONTROLS LEGEND

T	TEMPERATURE SENSOR
H	HUMIDITY SENSOR
C	CO2 MONITOR
CP	120V HVAC CONTROLS POWER
TS	AVERAGING TEMPERATURE SENSOR
H	DUCT MOUNTED HUMIDITY SENSOR
AO	ANALOG OUTPUT
AI	ANALOG INPUT
DO	DIGITAL OUTPUT
DI	DIGITAL INPUT
SD	DUCT MOUNTED SMOKE DETECTOR. SMOKE DETECTOR FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR, INSTALLED IN DUCT BY MECHANICAL CONTRACTOR.
HOA	HAND-OFF-AUTO MAGNETIC STARTER
SP	DUCT STATIC PRESSURE SENSOR
DP	DIFFERENTIAL PRESSURE SENSOR
	INTERLOCK WITH FIRE ALARM SYSTEM
M	FAN/PUMP MOTOR
VFD	VARIABLE FREQUENCY DRIVE
CT	CURRENT TRANSDUCER
FS	FLOW SWITCH
	DIRECTION OF FLOW
TS	PIPE MOUNTED TEMPERATURE SENSOR
	2-WAY AUTOMATIC VALVE
	3-WAY AUTOMATIC VALVE
H-O-A	HAND-OFF-AUTO SWITCH
AFM	AIR FLOW MONITOR. (PROVIDE ACCESS DOOR AT EACH AIR FLOW MONITOR.)

PIPING LEGEND

CHS	CHILLED WATER SUPPLY PIPING
CHR	CHILLED WATER RETURN PIPING
HWS	HOT WATER SUPPLY PIPING
HWR	HOT WATER RETURN PIPING
D	DRAIN PIPING
AAV OR	AAV-AUTO. AIR VENT (MARKED OR SHOWN)
	GATE VALVE
	GLOBE VALVE
	BALL VALVE
	TWO-WAY AUTO CONTROL VALVE.
	THREE-WAY AUTO CONTROL VALVE.
	BUTTERFLY VALVE.
	BUTTERFLY VALVE.
	PRESSURE REDUCING VALVE.
	PIPE TURNING UP.
	PIPE TURNING DOWN.
	BRANCH OFF TOP OF MAIN.
	BRANCH OFF BOTTOM OF MAIN.
	BRANCH OFF SIDE OF MAIN.
	CALIBRATED BALACING VALVE
	ECCENTRIC REDUCER
	STRAINER (Y)
	FLEXIBLE CONNECTION IN PIPING
	UNION
	PETES PLUG
	SLOPE DOWN IN DIRECTION OF ARROW.
	CHECK VALVE
	ASME PRESSURE RELIEF VALVE.

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
"LD"	200LD / CFM	LOUVER FACE CEILING DIFFUSER WITH SQUARE NECK. ALL CEILING DIFFUSERS TO HAVE A 24X24 CEILING PANEL (EXCEPT WHERE SHOWN AS 12X12). ALL CEILING DIFFUSERS TO HAVE SQUARE NECKS.	CFM SHOWN ON PLANS. NECK & RUN-OUT SIZED PER THE FOLLOWING: CFM / NECK SIZE / RUN-OUT SIZE 0 - 100 / 6"x6" / 6" 101 - 200 / 9"x9" / 8" 201 - 300 / 12"x12" / 10" 301 - 500 / 15"x15" / 12" 501 - 750 / 18"x18" / 15" 751 - 1000 / 21"x21" / 18"	TITUS TDCA-AA
"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
CG	CG48X24 / 2000 / CFM / W x H	CONCENTRIC SUPPLY / RETURN GRILLE	SIZE (WxH) IN INCHES & CFM SHOWN.	TITUS CSR-P

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.

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(205) 988-2069
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TRUSSVILLE CITY BOARD OF EDUCATION

SHEET TITLE:
MECHANICAL - LEGENDS

PROJ. MGR.:	WS
DRAWN:	MEH
DATE:	3/13/2024
REVISIONS	

JOB NO. 23-72

SHEET NO:

M0.1

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100% OUTSIDE AIR - BLOWER COIL UNIT

TYPE:
HORIZONTAL, SPLIT DX BLOWER COIL UNIT, 100% OUTSIDE AIR, ELECTRIC HEAT, HOT GAS REHEAT.

NOTES:
1. COOLING CAPACITY IS NET CAPACITY @ 95°F AMBIENT.
2. UNIT SHALL BE ASHRAE 90.1 - 2013 COMPLIANT.
3. CKT 1 : BLOWER COIL UNIT.
4. CKT 2 : ELECTRIC HEAT.

ACCESSORIES:
1. 2" THICK THROWAWAY FILTER, 30% EFFICIENT.
2. DIRECT DRIVE EVAPORATOR FAN.
3. STAINLESS STEEL DRAIN PAN.
4. HARD WIRED UNIT CONTROLLER.
5. CO2 SENSOR WITH DEMAND CONTROL VENTILATION.
6. HOT GAS REHEAT COIL.
7. DUAL POINT CONNECTION.
8. DISCONNECT SWITCH.
9. 24 V TRANSFORMER.

MARK	SUPPLY FAN			MAX OSA	ENTERING AIR TEMP.		DX COOLING CAPACITY			ELECTRICAL					ELECTRIC HEAT		WEIGHT (LBS)	ACCESSORIES	BASIS OF DESIGN	
	CFM	"W.G. E.S.P.	MOTOR HP		D.B. (°F)	W.B. (°F)	TOTAL (MBH)	SENS (MBH)	NOM. TONS	VOLTAGE	PH	HZ	MCA (CKT 1 / CKT 2)	MOCP (CKT 1 / CKT 2)	KW	STAGES			MANUFACTURER	MODEL
OSAU-1	400	1.0"	0.5	400	95.0°F	78.0°F	35.7	18.3	3	208	3	60	3 / 37.7	15 / 40	10	SCR	160	1,2,3,4,5,6,7,8	TRANE	BCHE018

THRU-WALL HEAT PUMP SCHEDULE

NOTES:
1. EQUAL TO FRIEDRICH ZONEAIRE PREMIER PDH15K.
2. COOLING CAPACITY IS RATED FOR 80°F / 67°F EAT AND 95°F AMBIENT CONDITIONS.
3. PROVIDE SUBBASE W/ LEVELING LEGS, UL APPROVED FUSE HOLDER, MANUAL DISCONNECT SWITCH, PLUG-IN POWER CORD TO SUB-BASE.
4. PROVIDE ARCHITECTURAL GRILLE. COLOR BY ARCHITECT.
5. THERMOSTAT, 2 STAGE HEATING, 2 STAGE COOLING W/ NIGHT SETBACK, 2 SPEED FAN.
6. PROVIDE DEEP WALL SLEEVE EXTENSION AS REQUIRED SO UNIT WILL EXTEND INTO ROOM ENOUGH FOR USE WITH SUBBASE. COORDINATE W/ ARCHITECTURAL DRAWINGS AND GENERAL CONTRACTOR.

MARK	NOMINAL CFM	TOTAL COOLING CAPACITY (MBH)	COOLING WATTS	COOLING AMPS	EER MIN.	REVERSE HEATING CAPACITY (MBH)	AUX. ELECTRIC HEAT	ELECTRICAL				QUANTITY
								V	PH	Hz	FUSE SIZE	
TWHP-1	390	11.6	1000	4.8	11.6	10.4	5 KW	208	1	60	30 A	1

INDOOR HEAT PUMP (SINGLE MINI SPLIT SYSTEM) SCHEDULE

TYPE:
1. INDOOR, WALL MOUNT
2. CEILING CASSETTE
3. CONCEALED, HORIZONTAL DUCTED

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 (CFM)	COOLING CAPACITY	HEATING CAPACITY	DIMENSIONS (WxDxH)	ELECTRICAL				ACCESSORIES	BASIS OF DESIGN	
						V	PH	HZ	MCA		BASIS OF DESIGN	MODEL
IHP-1	2	600	18 MBH	23 MBH	33" x 33" x 11"	208	1	60	1.0	1,2,3,4	TRANE	TPLA0A018
IHP-2	1	450	18 MBH	22 MBH	36" x 10" x 12"	208	1	60	1.0	1,2,3,4	TRANE	TPKA0A018
IHP-3	2	810	24 MBH	29 MBH	33" x 33" x 12"	208	1	60	1.0	1,2,3,4	TRANE	TPLA0A024
IHP-4	2	600	18 MBH	23 MBH	33" x 33" x 11"	208	1	60	1.0	1,2,3,4	TRANE	TPLA0A018
IHP-5	2	600	18 MBH	23 MBH	33" x 33" x 11"	208	1	60	1.0	1,2,3,4	TRANE	TPLA0A018
IHP-OFF	2	530	12 MBH	20 MBH	33" x 33" x 11"	208	1	60	1.0	1,2,3,4	TRANE	TPLA0A012

OUTDOOR HEAT PUMP (SINGLE MINI 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	HEATING CAPACITY	ELECTRICAL					EFFICIENCY		BASIS OF DESIGN	
				V	PH	HZ	MCA	MOCP	SEER2	HSPF2	MANUFACTURER	MODEL
OHP-1	1	18 MBH	23 MBH	208	1	60	11	15	25.0	9.2	TRANE	TRUZA018
OHP-2	1	18 MBH	22 MBH	208	1	60	11	15	20.2	9.2	TRANE	TRUZA018
OHP-3	1	24 MBH	29 MBH	208	1	60	19	25	24.7	9.3	TRANE	TRUZA024
OHP-4	1	18 MBH	23 MBH	208	1	60	11	15	25.0	9.2	TRANE	TRUZA018
OHP-5	1	18 MBH	23 MBH	208	1	60	11	15	25.0	9.2	TRANE	TRUZA018
OHP-OFF	1	12 MBH	20 MBH	208	1	60	11	15	26.9	9.3	TRANE	TRUZA012

AIR PURIFICATION SCHEDULE

FLOW	GPS MODEL	GPS QUANTITY	VOLTAGE	WATTS	MOUNTING LOCATION	MANUFACTURER
CV	GPS-FC	1 PER UNIT	24	1.2	UNIT SERVED	GLOBAL PLASMA SOLUTIONS

1. BASIS OF DESIGN: GLOBAL PLASMA SOLUTIONS: APPROVED EQUALS BY PHENOMENAL AIRE, ACTIVE AIR, AIRGENICS AND BIOXGEN SUBJECT TO SPECIFICATION COMPLIANCE.
2. MOUNT GPS-FC 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 24 V TRANSFORMER AS REQUIRED.
7. PROVIDE GPS-FC-3 FOR ALL CEILING CASSETTE INDOOR SPLITS.

*PROVIDE FOR ALL IHP UNITS, ALL GFF UNITS, AND OSAU-1

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. IONIZATION BAR TO HAVE A MINIMUM OF 1 NEEDLEPOINT EVERY 0.75" OF COIL WIDTH. SYSTEMS WITH NEEDLES FURTHER APART SHALL NOT BE ACCEPTABLE.
7. IONIZATION SYSTEMS WITH MULTIPLE ION MODULES MOUNTED TO A BAR SHALL NOT BE AN ACCEPTABLE SUBSTITUTE.
8. IONIZATION SYSTEMS THAT DO NOT USE EPOXY TO PROTECT THE ION CIRCUITRY SHALL NOT BE ACCEPTABLE.
9. IONIZATION OUTPUT SHALL BE A MINIMUM OF 40 MILLION IONS/CC FOR EVERY 0.75" OF COIL WIDTH.

*PROVIDE FOR RTU-1, RTU-2, AND ERU-1

AIR PURIFICATION SCHEDULE

FLOW	GPS MODEL	GPS QUANTITY	VOLTAGE	WATTS	MOUNTING LOCATION	MANUFACTURER
CV	GPS-iRIB	1 PER UNIT	115	5	UNIT SERVED	GLOBAL PLASMA SOLUTIONS

1. BASIS OF DESIGN: GLOBAL PLASMA SOLUTIONS: APPROVED EQUALS BY PHENOMENAL AIRE, ACTIVE AIR, AIRGENICS AND BIOXGEN SUBJECT TO SPECIFICATION COMPLIANCE.
2. MOUNT GPS-iRIB 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. ION GENERATORS SHALL INCLUDE AN LED INDICATOR LIGHT.
7. PROVIDE GPS-iRIB FOR ALL THRU WALL UNITS.

*PROVIDE FOR TWHP-1

FAN SCHEDULE

FAN TYPE:
1. CEILING MOUNTED EXHAUST FAN

FAN ACCESSORIES:
1. BACKDRAFT DAMPER.
2. DISCONNECT SWITCH.
3. ALUMINUM CEILING GRILLE.
4. FAN SPEED CONTROLLER.
5. INTERLOCK WITH LIGHT SWITCH.

MARK	FAN TYPE	AIRFLOW (CFM)	E.S.P. (in-wg)	WHEEL SIZE	FAN RPM	MOTOR (HP / W)	ELECTRICAL			ACCESSORIES	BASIS OF DESIGN	
							V	PH	HZ		MANUFACTURER	MODEL
EF-CJ	1	50	0.125	8"	566	21 W	120 V	1	60	1,2,3,4,5	Loren Cook Company	GC-128
EF-CM	1	140	0.25	8"	1075	47 W	120 V	1	60	1,2,3,4,5	Loren Cook Company	GC-166
EF-CW	1	280	0.25	9"	1350	135 W	120 V	1	60	1,2,3,4,5	Loren Cook Company	GC-196
EF-PB	1	70	0.25	8"	782	30 W	120 V	1	60	1,2,3,4,5	Loren Cook Company	GC-146

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PACKAGED AC UNIT - GAS

TYPE:
PACKAGED AC UNIT WITH VERTICAL DUCT CONNECTIONS, DX COIL, GAS FIRED HEAT EXCHANGER, AND DIRECT DRIVE FAN.

NOTES:
1. COOLING CAPACITY IS NET CAPACITY @ 95°F AMBIENT.
2. UNIT SHALL BE ASHRAE 90.1 - 2013 COMPLIANT.
3. MAX FACE VELOCITY = 500 FPM.
4. SINGLE POINT POWER CONNECTION.

ACCESSORIES:
1. 2" THICK THROWAWAY FILTER, 30% EFFICIENT.
2. CONDENSER COIL GUARD.
3. DIRECT DRIVE EVAPORATOR FAN.
4. HEAD PRESSURE CONTROL TO 10°F AMBIENT.
5. FACTORY FABRICATED ROOF CURB.
6. HINGED ACCESS DOORS.
7. ANTI-SHORT CYCLE TIMER.
8. STAINLESS STEEL HEAT EXCHANGER.
9. OSA INTAKE HOOD WITH AUTO DAMPER, ECONOMIZER, DIFFERENTIAL ENTHALPY CONTROLS, AND BAROMETRIC RELIEF.
10. HOT GAS REHEAT COIL.
11.LOUVERED PANELS.
12. PROGRAMMABLE THERMOSTAT.

MARK	SUPPLY FAN			MAX OSA	ENTERING AIR TEMP.		DX COOLING CAPACITY			ELECTRICAL					GAS HEAT		EER	WEIGHT (LBS)	ACCESSORIES	BASIS OF DESIGN	
	CFM	"W.G. E.S.P.	MOTOR HP		D.B. (°F)	W.B. (°F)	TOTAL (MBH)	SENS (MBH)	NOM. TONS	VOLTAGE	PH	HZ	MCA	MOCP	INPUT (MBH)	OUTPUT (MBH)				MANUFACTURER	MODEL
RTU-1	2000	1.0"	1	200	77.0°F	64.3°F	57.5	43.9	5	208	3	60	33	45	80	64	13	1540	1,2,3,4,5,6,7,8,9,10,11,12	TRANE	YHC067
RTU-2	2000	1.0"	1	200	77.0°F	64.3°F	57.5	43.9	5	208	3	60	33	45	80	64	13	1540	1,2,3,4,5,6,7,8,9,10,11,12	TRANE	YHC067

INDOOR AIR HANDLING UNIT SCHEDULE - GAS FURNACE

AIR HANDLER UNIT TYPE:

GAS FIRED FURNACE WITH SUPPLY FAN AND CASED DX COIL WITH MATCHING OUTDOOR CONDENSING UNIT.

NOTES:
1. COOLING CAPACITY IS NET CAPACITY @ 95°F AMBIENT.
2. UL LISTED. AHRI CERTIFIED.
3. SEE PLANS FOR AIRFLOW CONFIGURATION.

ACCESSORIES:
1. SINGLE POINT POWER CONNECTION.
2. 1" THICK FILTERS, 30% EFFICIENT
3. INTERNALLY ISOLATED SUPPLY FAN - DIRECT DRIVE.
4. DX COOLING COIL - MATCHED TO OUTDOOR CONDENSING UNIT.
5. CONCENTRIC VENT KIT.

MARK	SUPPLY FAN			MAX OUTSIDE AIR	DX COOLING COIL CAPACITY				GAS HEAT				ELECTRICAL					SEER2	BASIS OF DESIGN	
	AIRFLOW	E.S.P.	MOTOR HP		TOTAL	SENSIBLE	EAT (DB/WB °F)	NOMINAL TONS	MBH INPUT	MBH OUTPUT	STAGES	AFUE	VOLTAGE	PH	HZ	MCA	MOCP		MANUFACTURER	MODEL
GFF-JVLK	1200 CFM	0.9"	0.75	0 CFM	33.1 MBH	26.1 MBH	75.0°F / 62.5°F	3	60 MBH	58.2 MBH	1	96%	120	1	60	10.3	15	15.0	TRANE	4TXC + S9X1
GFF-MEZZ	1200 CFM	0.9"	0.75	0 CFM	33.1 MBH	26.1 MBH	75.0°F / 62.5°F	3	60 MBH	58.2 MBH	1	96%	120	1	60	10.3	15	15.0	TRANE	4TXC + S9X1
GFF-VLOCK	2000 CFM	0.9"	1.0	0 CFM	60 MBH	45.0 MBH	75.0°F / 62.5°F	5	120 MBH	116.4 MBH	1	96%	120	1	60	14.1	15	16.5	TRANE	4TXC + S9V2

SPLIT ENERGY RECOVERY UNIT

TYPE:
INDOOR, CONSTANT VOLUME, HORIZONTAL DRAW-THRU, WITH DX COOLING COIL, GAS HEAT, HOT GAS RE-HEAT COIL, FIXED PLATE ENERGY RECOVERY CORE, AND MATCHED CONDENSING UNIT.

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

ACCESSORIES:
1. 2" THICK THROWAWAY FILTERS, MERV 13.
2. INVERTER DUTY RATED MOTORS
3. DIRECT DRIVE SUPPLY & EXHAUST FAN.
4. VARIABLE FREQUENCY DRIVE FOR SUPPLY & EXHAUST FAN.
5. HINGED ACCESS DOORS.
6. STAINLESS STEEL DRAIN PAN.
7. HOT GAS REHEAT COIL.
8. GFCI CONVENIENCE OUTLET.

COMPONENTS
1. INTAKE SECTION WITH OUTSIDE AIR CONNECTION WITH AUTO DAMPERS.
2. FILTER SECTION WITH ANGLED FILTERS.
3. ENERGY RECOVERY WHEEL SECTION.
4. GAS HEAT SECTION.
5. DX COOLING COIL.
6. ACCESS SECTION.
7. DIRECT DRIVE PLENUM FAN IN SUPPLY FAN SECTION WITH HORIZONTAL DISCHARGE.
8. DIRECT DRIVE PLENUM FAN IN EXHAUST FAN SECTION WITH HORIZONTAL DISCHARGE.

MARK	SUPPLY FAN			EXHAUST FAN			SUMMER			WINTER			ELECTRICAL					GAS HEAT			DX COOLING COIL				WEIGHT (LBS)	ACCESSORIES	BASIS OF DESIGN	
	CFM	"W.G. E.S.P.	HP	CFM	"W.G. E.S.P.	HP	OUTSIDE AIR EAT (DB/WB)	OUTSIDE AIR LAT (DB/WB)	EXHAUST ENTERING (DB/WB)	OUTSIDE AIR EAT (DB/WB)	OUTSIDE AIR LAT (DB/WB)	EXHAUST ENTERING (DB/WB)	V	PH	Hz	MCA	MOCP	INPUT (MBH)	OUTPUT (MBH)	STAGES	LAT (DB/WB)	TOTAL (MBH)	SENSIBLE (MBH)	NOM. TONS			MANUFACTURER	MODEL
ERU-1	1750	1.1"	5	1690	1.1"	5	95.0°F / 78.0°F	80.5°F / 70.0°F	75.0°F / 62.5°F	17.0°F / 15.0 °F	55.4°F / 48.0°F	70.0°F / 58.0°F	208	3	60	33.7	45	75	60	MODULATING 5:1	53.6°F / 53.5°F	93.2	51.8	7.5	4235	1,2,3,4,5,6,7,8	RENEWAIRE	DN-3-JIN

CONDENSING UNIT SCHEDULE

TYPE: AIR COOLED CONDENSING UNIT.

NOTES:
1. CAPACITY TO BALANCE RESPECTIVE INDOOR AC UNIT.
2. CAPACITY BASED ON 95°F AMBIENT.
3. UL LISTED, AHRI CERTIFIED, ASHRAE 90.1-2007 COMPLIANT.
4. REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING-TYPE TAMPER-RESISTANT CAPS. ANY ACCESS DEVICE REQUIRED SHALL BE LEFT ON SITE WITH THE OWNER AT PROJECT CLOSE OUT.

ACCESSORIES:
1. PHASE PROTECTION.
2. MICROPROCESSOR CONTROLS.
3. ISOLATION VALVES.
4. LIQUID LINE REFRIGERANT FILTER DRIER.
5. ANTI SHORT CYCLE TIMER.
6. LOW AMBIENT CONTROL DOWN TO 0°F.
7. HAIL / VANDAL GUARDS.
8. THERMAL EXPANSION VALVE.
9. HOT GAS BYPASS WITH RAWAL DEVICE AT CONDENSING UNIT.

MARK	NOMINAL CAPACITY	ELECTRICAL					SEER2 / EER	WEIGHT (LBS)	BASIS OF DESIGN	
		VOLTAGE	PH	HZ	MCA	MOCP			MANUFACTURER	MODEL
CU-1	7.5 T	208	3	60 Hz	34 A	45 A	12.8 EER	380	TRANE	TTA090
CU-JVLK	3.0 T	208	3	60 Hz	12 A	20 A	14 SEER2	175	TRANE	4TTA4036
CU-MEZZ	3.0 T	208	3	60 Hz	12 A	20 A	14 SEER2	175	TRANE	4TTA4036
CU-OSA	3.5 T	208	3	60 Hz	15 A	25 A	14 SEER2	235	TRANE	4TTA4042
CU-VLOK	5.0 T	208	3	60 Hz	21 A	35 A	14 SEER2	235	TRANE	4TTA4060

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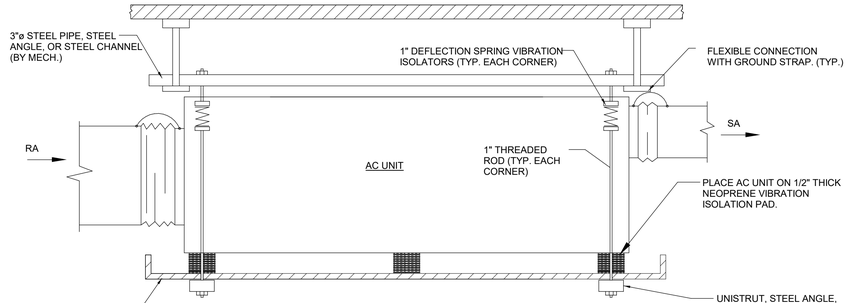


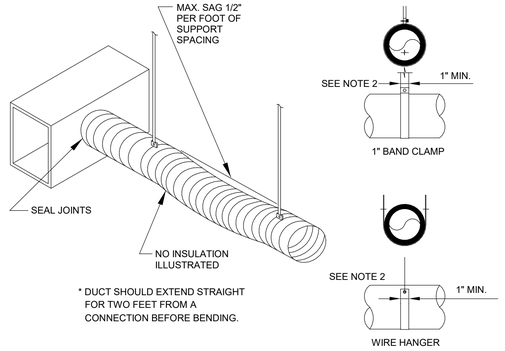
NOTES

1. ROUTE CONDENSATE DRAIN LINE TO NEAREST HUB DRAIN BOX. SEE PIPING PLAN & SEE PLUMBING.

2. PROVIDE MINIMUM OF 36" CLEARANCE ON CONTROL PANEL SIDE OF UNIT TO ACCESS FILTERS, MOTOR, COILS, ETC.

AC UNIT SUSPENDED FROM STRUCTURE

NO SCALE



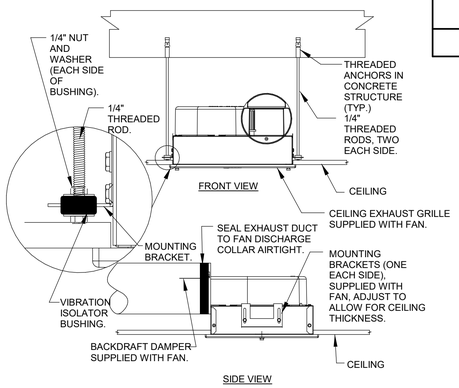
* DUCT SHOULD EXTEND STRAIGHT FOR TWO FEET FROM A CONNECTION BEFORE BENDING.

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.

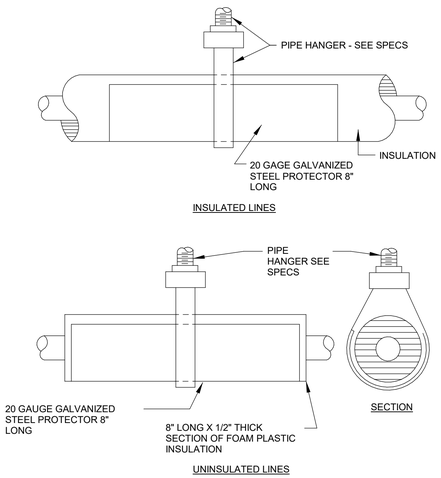
FLEXIBLE DUCT SUPPORT DETAIL

NO SCALE



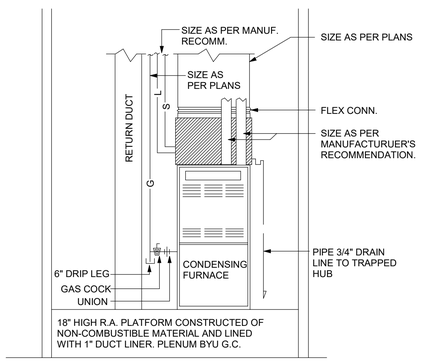
CEILING EXHAUST FAN DETAIL

NO SCALE



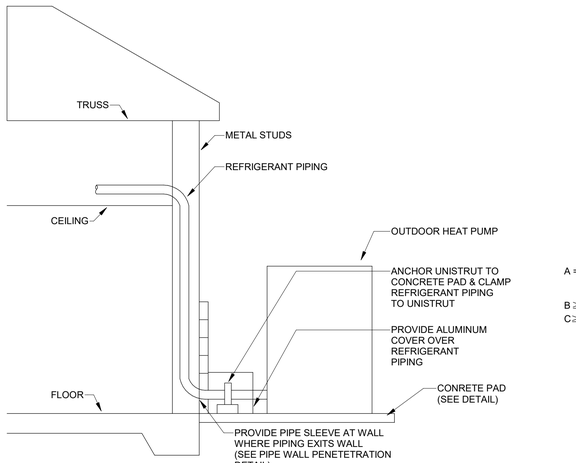
REFRIGERANT PIPING HANGER DETAIL

NO SCALE



TYPICAL VERTICAL FURNACE DETAIL

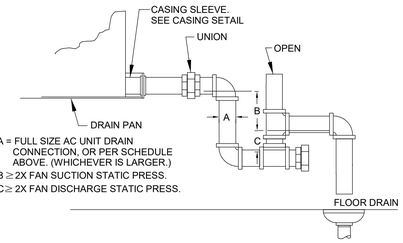
NO SCALE



CONDENSING UNIT INSTALLATION DETAIL

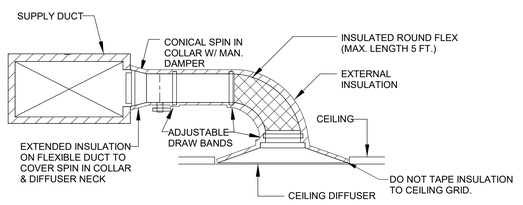
NO SCALE

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"



AC UNIT DRAIN TRAP DETAIL

NO SCALE

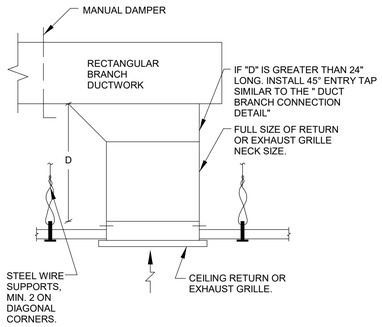


NOTE:

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.

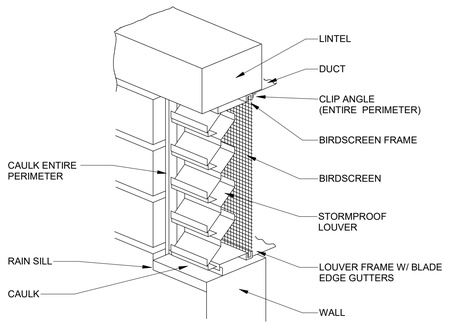
CEILING DIFFUSER INSTALLATION DETAIL

NO SCALE



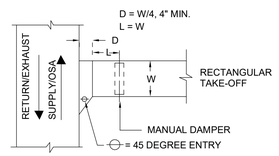
CEILING RETURN/EXHAUST BRANCH CONNECTION DETAIL

NO SCALE

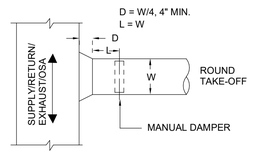


TYPICAL HVAC WALL LOUVER

NO SCALE



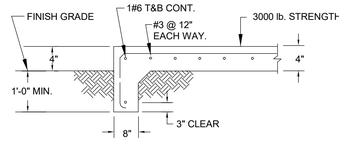
RECTANGULAR DUCT TAKE-OFF



ROUND DUCT TAKE-OFF

DUCT TAKE-OFF CONNECTION DETAIL

NO SCALE



CONCRETE PAD DETAIL

NO SCALE

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2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
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Project Number :
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SHEET TITLE:
MECHANICAL - DETAILS

PROJ. MGR.:	WS
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DATE:	3/13/2024
REVISIONS	

JOB NO. 23-72

SHEET NO:

M0.4

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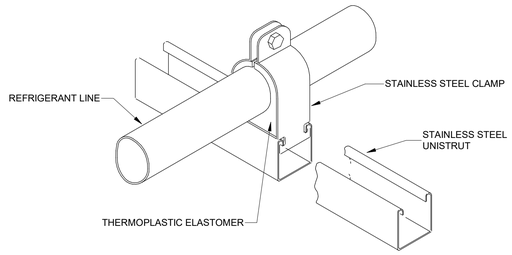
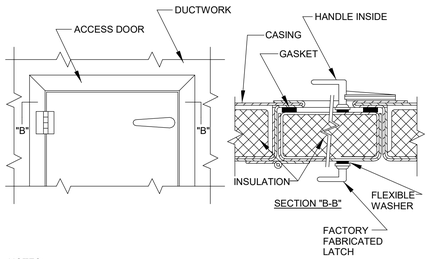


REFRIGERANT LINE SUPPORT DETAIL

NO SCALE

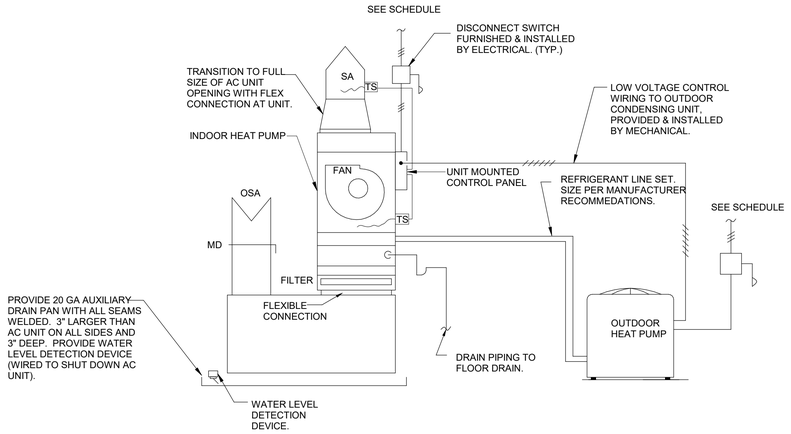


NOTES:

1. HINGES ON THE ACCESS DOORS SHALL HAVE NON-CORROSIVE PINS.

ACCESS DOOR DETAIL

NO SCALE



SPLIT SYSTEM CONTROL SEQUENCE

OCCUPIED MODE: DETERMINED BY TIME OF DAY IN COORDINATION WITH OWNER.

ON A CALL TO START, THE UNIT INTERNAL CONTROLLER SHALL OPEN THE OUTSIDE AIR DAMPER, THE OUTSIDE AIR FAN SHALL RUN.

DURING OCCUPIED HOURS, THE THERMOSTAT SHALL ENERGIZE THE OUTDOOR CONDENSING UNIT CONTROLS UPON A RISE IN ROOM TEMPERATURE PROVIDE COOLING AS NEEDED TO SATISFY SPACE TEMPERATURE SETPOINT (75°F - ADJUSTABLE) DURING SUMMER MONTHS.
UPON A DROP IN SPACE TEMPERATURE DURING WINTER MONTHS, THE ELECTRIC HEATER SHALL STAGE ON TO MAINTAIN SPACE TEMPERATURE SETPOINT (70°F - ADJUSTABLE).

DEHUMIDIFICATION CYCLE:

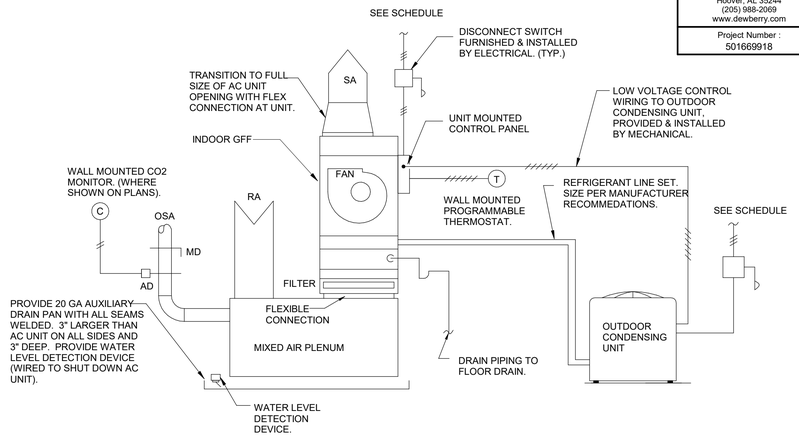
THE PROGRAMABLE THERMOSTAT / HUMIDISTAT SHALL DETERMINE THE NEED FOR DEHUMIDIFICATION BY SAMPLING SPACE TEMPERATURE AND HUMIDITY.
IF SPACE TEMPERATURE IS 72°F AND SPACE RELATIVE HUMIDITY IS GREATER THAN 60% (ADJUSTABLE) THE UNIT SHALL GO INTO A DEHUMIDIFICATION CYCLE. THE CONDENSING UNIT SHALL STAGE ON 100% AND THE HOT GAS REHEAT COIL AND ELECTRIC STRIP HEAT SHALL MAINTAIN A DISCHARGE AIR TEMPERATURE OF 72°F (ADJUSTABLE). UPON THE HUMIDITY FALLING BACK BELOW SETPOINT THE UNIT SHALL RETURN TO NORMAL OPERATION.

UNOCCUPIED PERIOD:

SPACE TEMPERATURE OVERIDE SHALL BE 78 F IN SUMMER AND 68 F IN WINTER (ADJUSTABLE). UNOCCUPIED DEHUMIDIFICATION SHALL BE THE SAME AS OCCUPIED.

OSA-1 CONTROLS (NO BUILDING AUTOMATION SYSTEM)

NO SCALE



SPLIT SYSTEM CONTROL SEQUENCE:

EACH AC UNIT SHALL BE STARTED AND STOPPED BY WALL MOUNTED PROGRAMMABLE THERMOSTAT, SUBJECT TO FACTORY SAFETIES AND THE DUCT MOUNTED SMOKE DETECTOR (WHERE INDICATED ON PLANS OR SCHEDULE).

WHEN AC UNIT AND CORRESPONDING CONDENSING UNIT IS ENERGIZED, THE AC UNIT SUPPLY FAN SHALL START.

DURING OCCUPIED HOURS, THE THERMOSTAT SHALL ENERGIZE THE OUTDOOR CONDENSING UNIT CONTROLS UPON A RISE IN ROOM TEMPERATURE
PROVIDE COOLING BY LOADING AND UNLOADING COMPRESSORS IN STAGES AS NEEDED TO SATISFY SPACE TEMPERATURE SETPOINT (74°F - ADJUSTABLE) DURING SUMMER MONTHS. UPON A DROP IN SPACE TEMPERATURE DURING WINTER MONTHS, THE GAS FIRED FURNACE SHALL STAGE ON TO MAINTAIN SPACE TEMPERATURE SETPOINT (70°F - ADJUSTABLE). IF THE HEAT PUMP CANNOT SATISFY SPACE
TEMP, THE ELECTRIC HEAT SHALL STAGE ON. OCCUPIED HOURS TO BE DETERMINED BY THE OWNER. RECOMMENDED OCCUPIED HOURS ARE
MONDAY THRU FRIDAY, 7 A.M. TO 6 P.M.

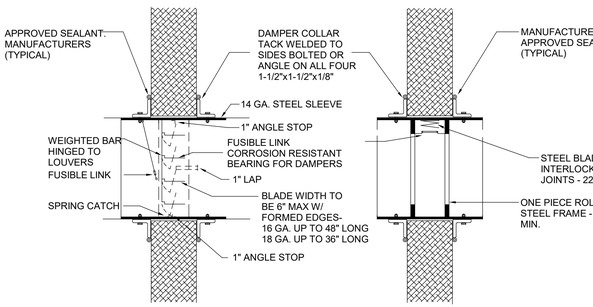
PROVIDE NIGHTTIME SETBACK TEMPERATURE THRU PROGRAMMABLE THERMOSTAT TO MAINTAIN 78°F (SUMMER), 66°F (WINTER), AFTER HOURS. UPON ACTIVATION OF NIGHT LOW LIMIT THERMOSTAT UNIT SHALL OPERATE IN OCCUPIED MODE UNTIL SATISFIED.

FOR AC UNITS WITH WALL MOUNTED CO2 MONITOR, AUTO DAMPER TO OPEN WHEN CO2 RISES ABOVE 1000 PPM.

FOR AC UNITS WITHOUT WALL MOUNTED CO2 MONITOR, AUTO DAMPER TO BE CONTROLLED BY WALL MOUNTED TIME CLOCK (SEE DETAIL).

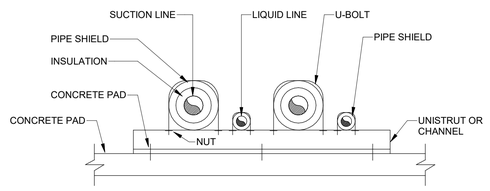
SPLIT SYSTEM CONTROLS (NO BUILDING AUTOMATION SYSTEM)

NO SCALE



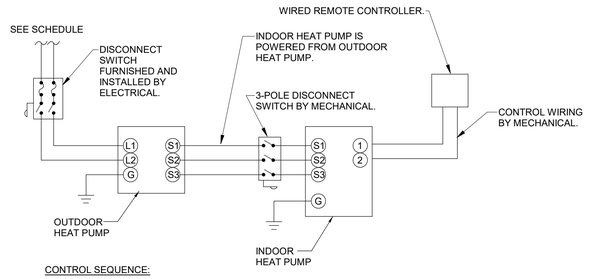
TYPICAL FIRE DAMPER ARRANGEMENTS DETAIL

NO SCALE



REFRIGERANT PIPE SUPPORT FROM CONCRETE PAD DETAIL

NO SCALE

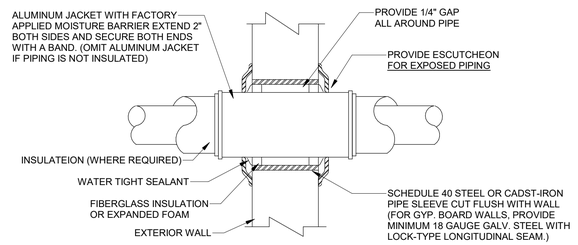


CONTROL SEQUENCE:

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.

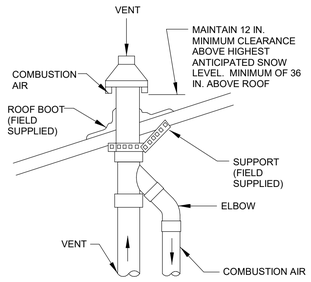
DUCTLESS SPLIT SYSTEM CONTROLS

NO SCALE



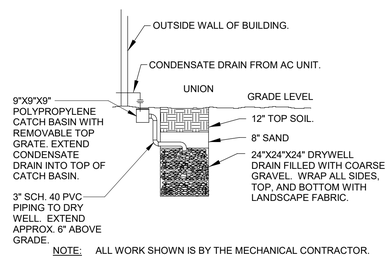
PIPE PENETRATION DETAIL

NO SCALE



COMBINATION FLUE/INTAKE CAP

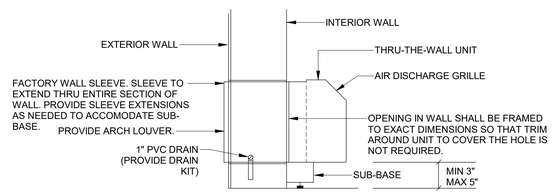
NO SCALE



NOTE: ALL WORK SHOWN IS BY THE MECHANICAL CONTRACTOR.

DRY WELL DETAIL

NO SCALE



NOTE:
ELECTRICAL CONTRACTOR TO HARDWIRE SUB-BASE. CORD FROM UNIT SHALL PLUG INTO SUB-BASE OUTLET. VERIFY ACTUAL WALL SECTION AND MOUNTING HEIGHT W/ ARCHITECTURAL PLANS.

THRU-WALL AC UNIT DETAIL

NO SCALE

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2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
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Project Number :
501669918

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

SHEET TITLE:
MECHANICAL - DETAILS AND CONTROLS

PROJ. MGR.:	WS
DRAWN:	MEH
DATE:	3/13/2024
REVISIONS	

JOB NO. 23-72

SHEET NO:

M0.5

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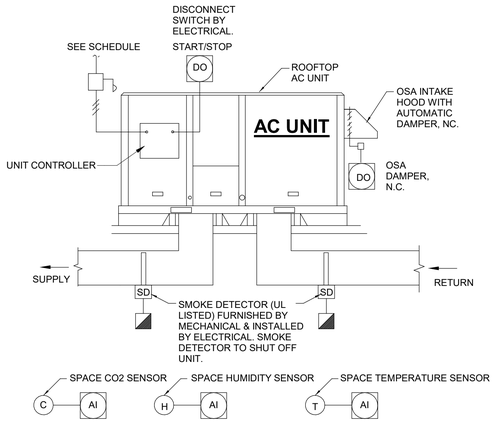


PACKAGED AC UNIT CONTROLS
NO SCALE

CONTROL SEQUENCE:

OCCUPIED MODE:
THE UNIT CONTROLLER SHALL START THE SUPPLY FAN, SUBJECT TO INTERNAL AC UNIT SAFETIES AND SMOKE DETECTOR INTERLOCK AND PROGRAMABLE THERMOSTAT (WHERE REQUIRED). THE SPACE TEMPERATURE SENSOR SHALL CYCLE ON COMPRESSOR TO MAINTAIN COOLING SETPOINT (75°F - ADJUSTABLE) AND GAS HEAT AS REQUIRED TO MAINTAIN HEATING SETPOINT (70°F - ADJUSTABLE).

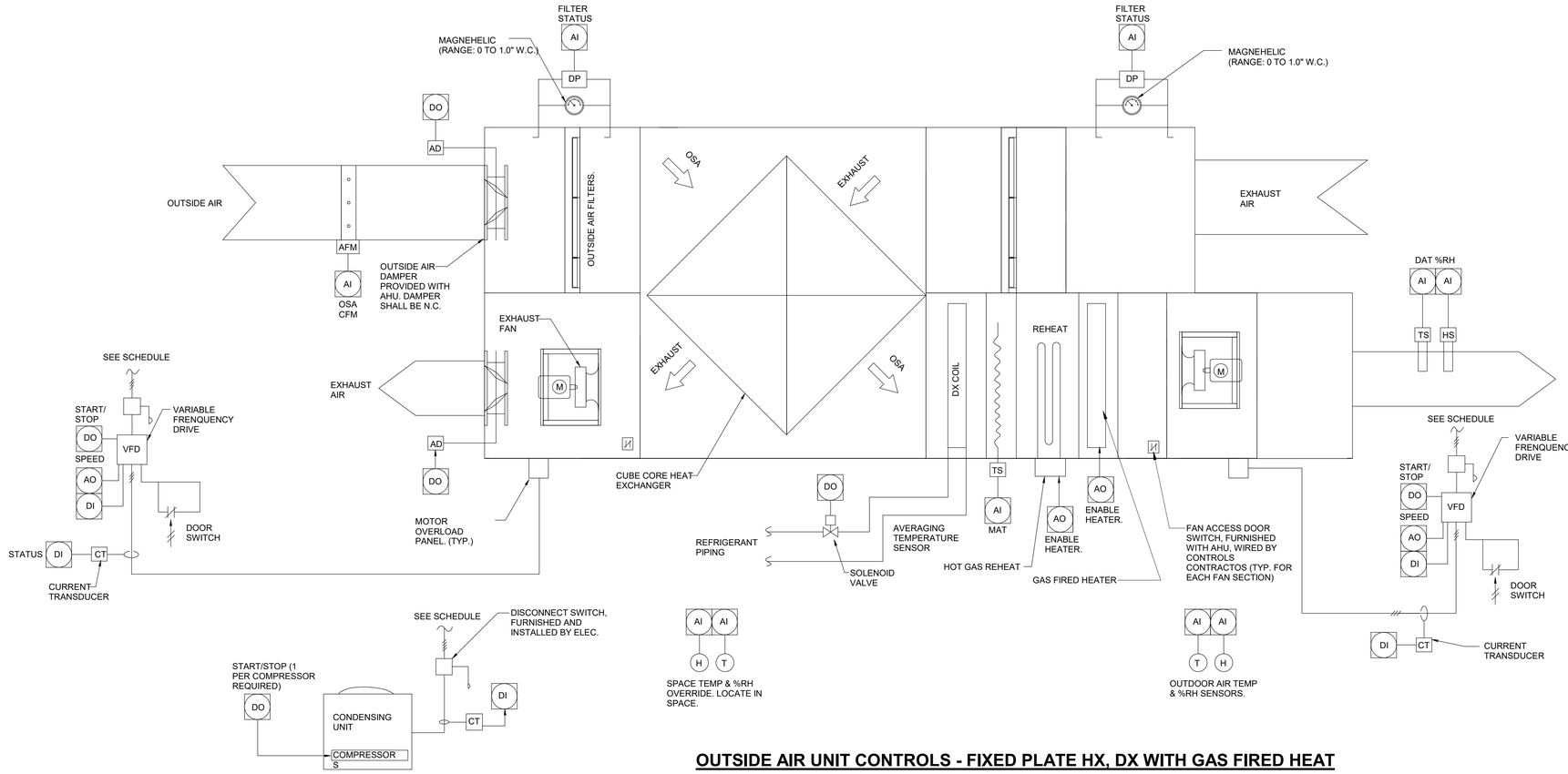
DURING OCCUPIED MODE AS DETERMINED BY THE UNIT CONTROLLER, THE OUTSIDE AIR DAMPER SHALL OPEN TO A MINIMUM POSITION TO PROVIDE THE MINIMUM SCHEDULED OSA CFM. WHEN THE SPACE CO2 LEVELS RISE TO 1000 PPM, THE OUTSIDE AIR AUTO DAMPER SHALL OPEN TO PROVIDE THE MAXIMUM SCHEDULED OSA CFM. AUTO DAMPER POSITIONS TO PROVIDE THE MIN & MAX CFM VALUES SHALL BE DETERMINED BY THE TEST AND BALANCE CONTRACTOR.

DEHUMIDIFICATION SEQUENCE:
UPON A RISE IN SPACE HUMIDITY (ABOVE 60% RH), THE AC UNIT SHALL GO INTO FULL 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.



OUTSIDE AIR UNIT CONTROLS - FIXED PLATE HX, DX WITH GAS FIRED HEAT
NO SCALE

ENERGY RECOVERY UNIT CONTROL SEQUENCE

THE CONTROLS FOR THE ENERGY RECOVERY UNIT ARE INTENDED TO BE STAND ALONE AND NOT CONNECTED TO THE EXISTING BMCS. ANY DIGITAL DEVICES SHOWN ARE INTENDED TO BE MONITORED OR CONTROLED THROUGH THE FACTORY UNIT MOUNTED CONTROLLER.

THE ENERGY RECOVERY UNIT (ERU) SHALL BE STARTED AND STOPPED BY THE UNIT MOUNTED COLNTROLLER SUBJECT TO AN OWNER'S OCCUPANCY SCHEDULE AND SUBJECT TO ALL INTERNAL UNIT SAFETIES. OCCUPIED AND UNOCCUPIED HOURS SHALL BE DETERMINED BY THE OWNER AND SHALL BE FULLY ADJUSTABLE AT THE UNIT MOUNTED COLNTROLLER BY THE OWNER.

UNOCCUPIED MODE:
DURING UNOCCUPIED MODE, THE EXHAUST AIR AND OUTSIDE AIR AUTO DAMPERS SHALL BE CLOSED AND THE EXHAUST AIR AND OUTSIDE AIR FANS SHALL BE OFF.

OCCUPIED MODE:
DURING OCCUPIED HOURS, THE EXHAUST AIR AND OUTSIDE AIR DAMPERS SHALL OPEN. ONCE THE DAMPERS ARE PROVEN TO BE OPEN, THE SUPPLY FAN AND EXHAUST FAN SHALL BE STARTED BY THE UNIT MOUNTED COLNTROLLER AND SHALL RUN CONTINUOUSLY. TEST AND BALANCE SHALL ADJUST THE FAN SPEED AT THE VARIABLE FREQUENCY DRIVE FOR EACH FAN TO PROVIDE THE SCHEDULED OUTSIDE AIR AND EXHAUST AIR CFM. THIS FAN SPEED SHALL BE SET AND SHALL BE DISPLAYED AT THE THE UNIT MOUNTED COLNTROLLER. THE FAN SPEED FOR THE OUTSIDE AIR AND EXHAUST AIR FANS SHALL NOT VARY.

THE UNIT MOUNTED COLNTROLLER SHALL STAGE ON COMPRESSORS AND OPEN/CLOSE SOLENOID VALVE(S) AT THE DX COIL TO MAINTAIN A 54degF SUPPLY AIR TEMPERATURE AS MEASURED AT THE TEMPERATURE SENSOR DOWNSTREAM OF THE DX COIL. THE HOT GAS REHEAT IN THE DOAS SHALL MODULATE TO MAINTAIN A TEMPERATURE LEAVING THE ERU OF 72degF (SUMMER) AND 70degF (WINTER) AS MEASURED AT THE DISCHARGE AIR TEMPERATURE SENSOR. IN THE WINTER, THE GAS HEATER SHALL STAGE TO PROVIDE A LEAVING AIR TEMPERATURE OF 70°F (ADJUSTABLE)

DEHUMIDIFICATION MODE:
IF THE SPACE MOUNTED RELATIVE HUMIDITY SENSOR RISES ABOVE 60% RH FOR LONGER THAN 10 MINUTES DURING OCCUPIED OR UNOCCUPIED MODES, THE ERU SHALL GO INTO DEHUMIDIFICATION MODE. IN DEHUMIDIFICATION MODE, THE EXHAUST AIR AND OUTSIDE AIR DAMPERS SHALL BE OPEN, THE EXHAUST AIR AND OUTSIDE AIR FANS SHALL RUN, THE CONDENSING UNIT SHALL BE ON AND PROVIDINING 100% COOLING, AND THE HOT GAS REHEAT SHALL MODULATE TO MAINTAIN A SPACE TEMPERATURE OF 72degF (SUMMER) AND 70degF (WINTER). ONCE THE HUMIDITY RETURNS TO BELOW 60%RH, THE ERU SHALL RETURN TO NORMAL OCCUPIED OR UNOCCUPIED MODE.

SHEET TITLE:
MECHANICAL - CONTROLS

PROJ. MGR.:	Checker
DRAWN:	Author
DATE:	3/13/2024
REVISIONS	

JOB NO. 23-72

SHEET NO:
M0.6
6 OF 11

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2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
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Project Number :
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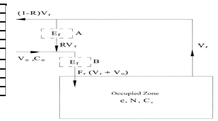
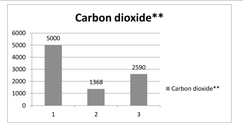
Zone Tag	Facility Type	Zone Use	Zone Floor Area (square ft) Az	Zone Max Occupancy Pz	Table 6.1 OA per Occupant Rp	Table 6.1 cfm/ft2 Ra	Pz * Rp Pz * Rp	Az * Ra Az * Ra	Table 6.2 Ventilation Effectiveness Ez	Outdoor Air to Zone (CFM) with Ez correction (Vbz/Ez)
REFEREE (TWHP-1)	Educational Facilities	Office Space	118.0	2.0	5.0	0.06	10	7	0.8	21
										OA required per VRP

Zone Height (feet)	10.0
Desired Outside Air (Vo) IAQP	10
Supply Air (Vs)	390
Return Air (Vr)	380
Recirc. Flow Factor (R)	0.97
Ventilation Effectiveness (Ez)	0.8
Level of Physical Activity	**Sedentary**
Filter Location	B
HVAC Flow Type	Constant
Outdoor Air Flow Type	Constant





***OSHA, NIOSH & WHO most conservative values used
http://www.cdc.gov/niosh/npg/npgdyn-a.html
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.

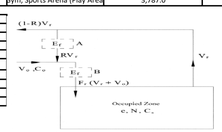
Indoor Contaminants Generated By People & From Outdoors	Maximum Threshold Value (PPM)	Steady State Using the VRP* (Prescribed OA) Plasma Off	Steady State Using the IAQ Method (Reduced OA) Plasma On	Is Steady State Level Acceptable at Reduced OA Levels?	Contaminant Generation Rate (PPM)	Filtration Effectiveness	Cognizant Authority***
Acetaldehyde	100.0	0.01113	0.00028	Yes	0.00032	50%	OSHA
Acetone	250.0	0.00177	0.00009	Yes	0.00433	50%	NIOSH
Ammonia	25.00	0.01837	0.00182	Yes	0.14210	50%	NIOSH
Benzene	1.0000	0.00252	0.00006	Yes	0.00015	50%	OSHA
2- Butanone (MEK)	200.0	0.00021	0.00001	Yes	0.00088	50%	NIOSH
Carbon dioxide**	5000	1368	2590	Yes	292	0%	NIOSH
Chloroform	2.0000	0.00011	0.00000	Yes	0.00003	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	0.00079	0.00003	Yes	0.00080	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	0.00001	Yes	0.00001	50%	OSHA
Toluene	100.0000	0.00533	0.00014	Yes	0.00021	50%	NIOSH
1,1,1 - Trichloroethane	350.0000	0.00078	0.00002	Yes	0.00038	50%	NIOSH
Xylene	100.0000	0.00230	0.00006	Yes	0.00000	50%	OSHA

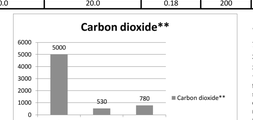
Building materials and furnishings assumed to have no VOCs and off-gassing is complete

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)
INDOOR HITTING (RTU-1&2)	Educational Facilities	Gym, Sports Arena (Play Area)	3,787.0	10.0	20.0	0.18	200	682	0.8	1102
										OA required per VRP

Zone Height (feet)	20.0
Desired Outside Air (Vo) IAQP	400
Supply Air (Vs)	4,000
Return Air (Vr)	3600
Recirc. Flow Factor (R)	0.90
Ventilation Effectiveness (Ez)	0.8
Level of Physical Activity	**Moderate Exercise**
Filter Location	B
HVAC Flow Type	Constant
Outdoor Air Flow Type	Constant





***OSHA, NIOSH & WHO most conservative values used
http://www.cdc.gov/niosh/npg/npgdyn-a.html
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.

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	0.01110	0.00102	Yes	0.00130	50%	OSHA
Acetone	250.0	0.00146	0.00021	Yes	0.01759	50%	NIOSH
Ammonia	25.00	0.00827	0.00344	Yes	0.57710	50%	NIOSH
Benzene	1.0000	0.00251	0.00023	Yes	0.00059	50%	OSHA
2- Butanone (MEK)	200.0	0.00014	0.00003	Yes	0.00359	50%	NIOSH
Carbon dioxide**	5000	530	780	Yes	1186	0%	NIOSH
Chloroform	2.0000	0.00011	0.00001	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	0.00073	0.00008	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	0.00003	Yes	0.00004	50%	OSHA
Toluene	100.0000	0.00532	0.00049	Yes	0.00085	50%	NIOSH
1,1,1 - Trichloroethane	350.0000	0.00075	0.00008	Yes	0.00156	50%	NIOSH
Xylene	100.0000	0.00230	0.00021	Yes	0.00000	50%	OSHA

Building materials and furnishings assumed to have no VOCs and off-gassing is complete

Is IAQ acceptable at reduced outside air levels?	Yes

OSA CALCULATIONS - NAT VENTILATION			
ROOM	SQFT	REQUIRED AREA (SF X 0.04)	OPENABLE ARE SF
CONCESSION	345	13.8	32.47
PRESS	336	13.44	34.66
RADIO	45	1.8	10

OSA CALCULATIONS

Room	Room Type	Rp	Pz	Ra	Az	Vbz	Ez	Voz (Required)	Provided (IAQP)
		cfm / P	People	cfm/ft²	ft²	cfm		cfm	cfm
INDOOR HITTING	Gym, sports areana (play area)	20	10	0.18	3,787	882	0.80	1,102	400
OFFICE	Office Space	5	2	0.06	267	26	0.80	33	70
JV LOCKER ROOM	Sports locker room				606			0	305
VARSITY LOCKER ROOM	Sports locker room				1,263			0	1,265
REST	Restroom				384			0	
REST	Restroom				80			0	
JANITOR	Janitor				38			0	
REFEREE	Office Space	5	2	0.06	118	17	0.80	21	10
HOME REST	Restroom				125			0	
HOME REST	Restroom				75			0	
VISITOR REST	Restroom				125			0	
CONCESSION BOX REST	Restroom				128			0	
CONCESSION JANITOR	Janitor				40			0	
CONCESSION BOX REST	Restroom				185			0	
PRESS BOX REST	Restroom				42			0	

EXHAUST AIR CALCULATIONS

# OF FIXTURES	# OF SHOWERS	EXHAUST RATE CFM/FT²	EXHAUST RATE CFM / FIXTURE	EXHAUST RATE CFM/ SHOWER	REQUIRED EXHAUST CFM	PROVIDED EXHAUST CFM
0	0	N/A	N/A	N/A	0	0
0	0	N/A	N/A	N/A	0	0
0	0	0.5	N/A	N/A	303	305
0	0	0.5	N/A	N/A	631.5	635
5	4	N/A	50	20	330	630
1	1	N/A	50	20	70	70
0	0	1	N/A	N/A	38	50
0	0	N/A	N/A	N/A	0	0
2	0	N/A	70	N/A	140	140
1	0	N/A	70	N/A	70	70
2	0	N/A	70	N/A	140	140
2	0	N/A	70	N/A	140	140
0	0	1	N/A	N/A	40	50
3	0	N/A	70	N/A	210	210
1	0	N/A	70	N/A	70	70

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SHEET TITLE:
MECHANICAL - VENTILATION CALCS

PROJ. MGR.:	WS
DRAWN:	MEH
DATE:	3/13/2024
REVISIONS	

JOB NO. 23-72

SHEET NO:
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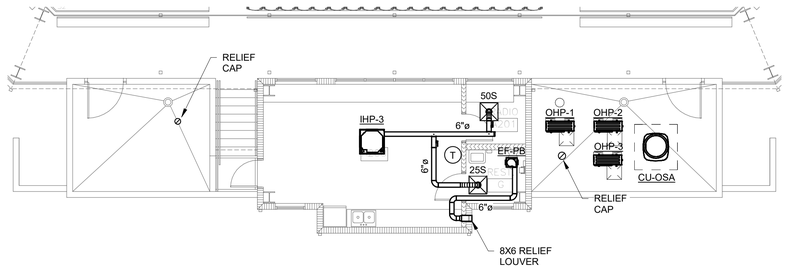
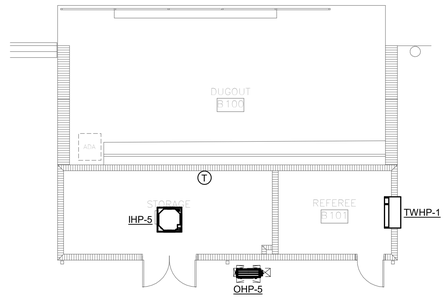
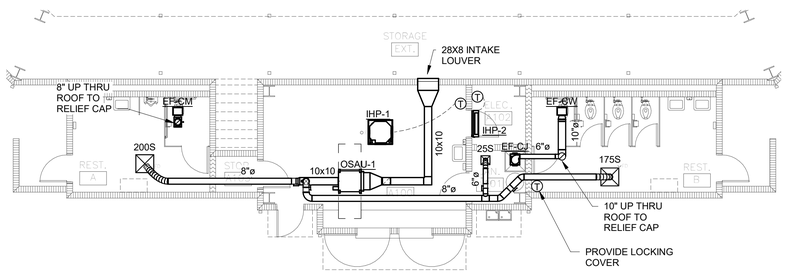


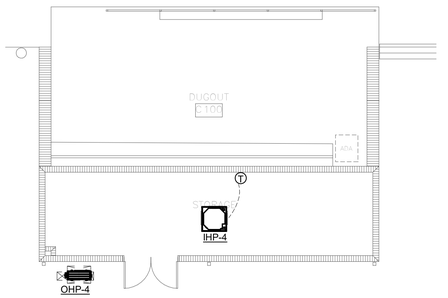
HVAC - CONCESSIONS/PRESSBOX UPPER LEVEL
2 1/8" = 1'-0"



HVAC - HOME DUGOUT FLOOR PLAN
4 1/8" = 1'-0"



HVAC - CONCESSIONS/PRESSBOX LOWER LEVEL
1 1/8" = 1'-0"



HVAC - VISITOR DUGOUT FLOOR PLAN
3 1/8" = 1'-0"

SHEET TITLE:
MECHANICAL DUCTWORK - FLOOR PLANS

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0 1" 2"

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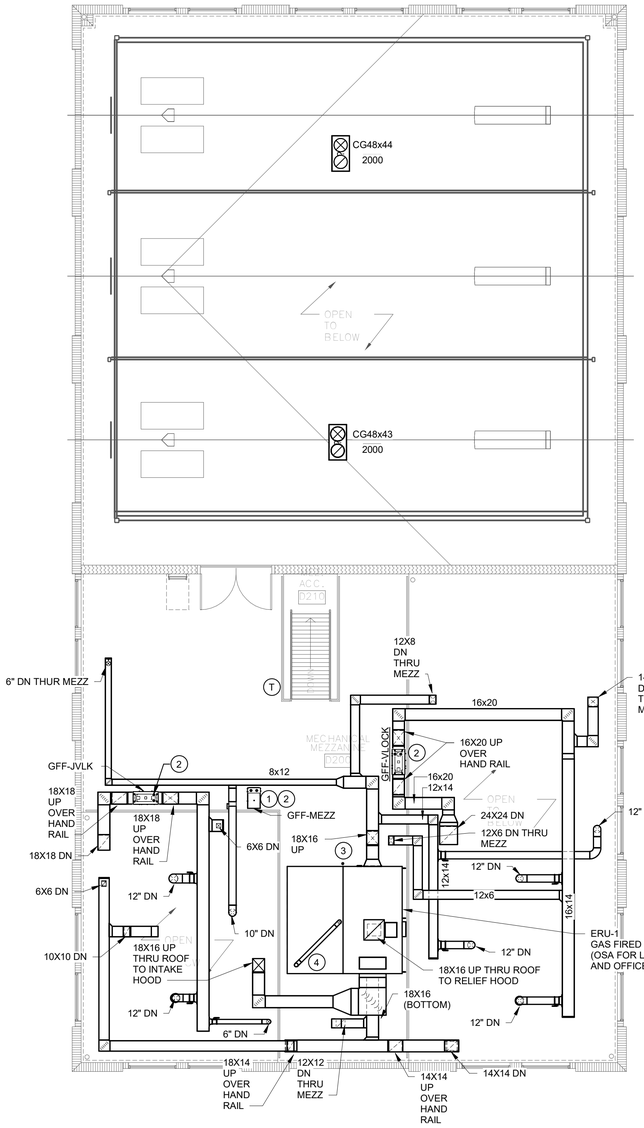
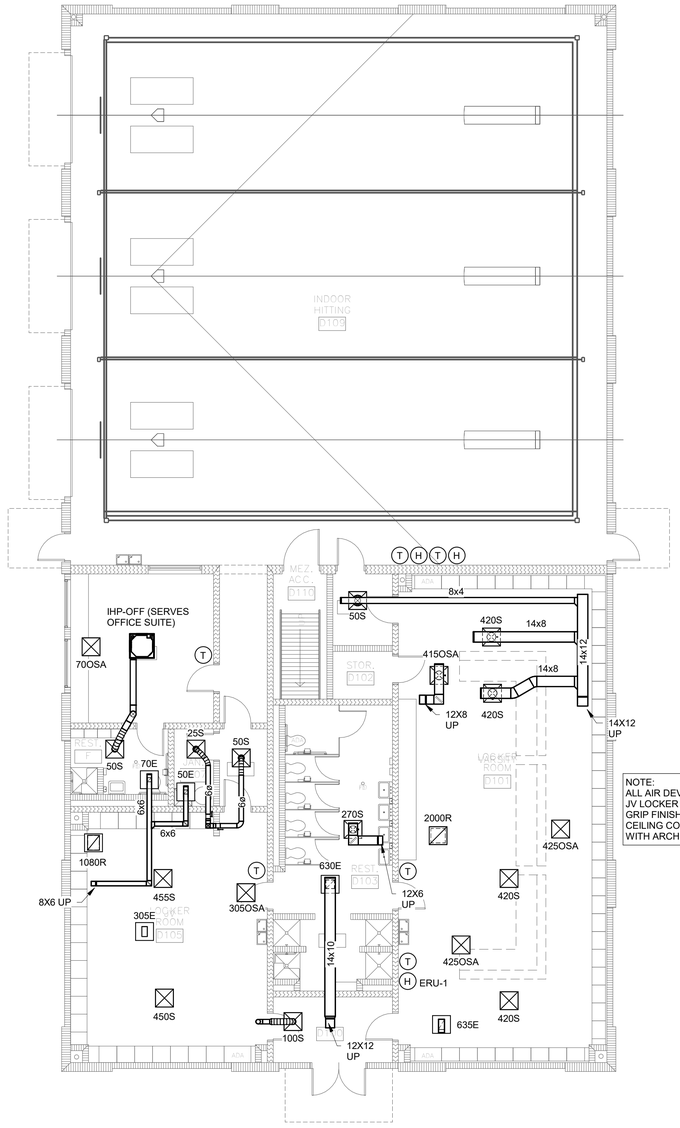


KEY NOTES:

1. GFF-MEZZ TO BE MOUNTED ON METAL STAND W/ FILTER RACK. RETURN OPEN. PROVIDE FULL SIZE DISCHARGE SUPPLY PLENUM WITH GRILLES ON THREE SIDES. SIZE GRILLES FOR TOTAL 1200 CFM.
2. APPROX 3" INTAKE AND FLUE UP TO CONCENTRIC CAP ON ROOF. SIZE PER MANUFACTURER'S RECOMMENDATIONS.
3. APPROX 3" FLUE UP THRU ROOF TO GAS FLUE CAP. SIZE PER MANUFACTURER'S RECOMMENDATIONS.
4. APPROX 5" COMBUSTION INTAKE FROM ERU UP THRU ROOF TO INTAKE CAP.

2 HVAC - HIT HOUSE UPPER LEVEL
1/8" = 1'-0"



NOTE:
ALL AIR DEVICES IN VARSISTY AND JV LOCKER ROOM SHALL BE PAINT GRIP FINISH. PAINT TO MATCH CEILING COLOR. CONFIRM COLOR WITH ARCHITECT.

1 HVAC - HIT HOUSE LOWER LEVEL
1/8" = 1'-0"

SHEET TITLE:
MECHANICAL DUCTWORK - HIT HOUSE PLANS

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0 1" 2"

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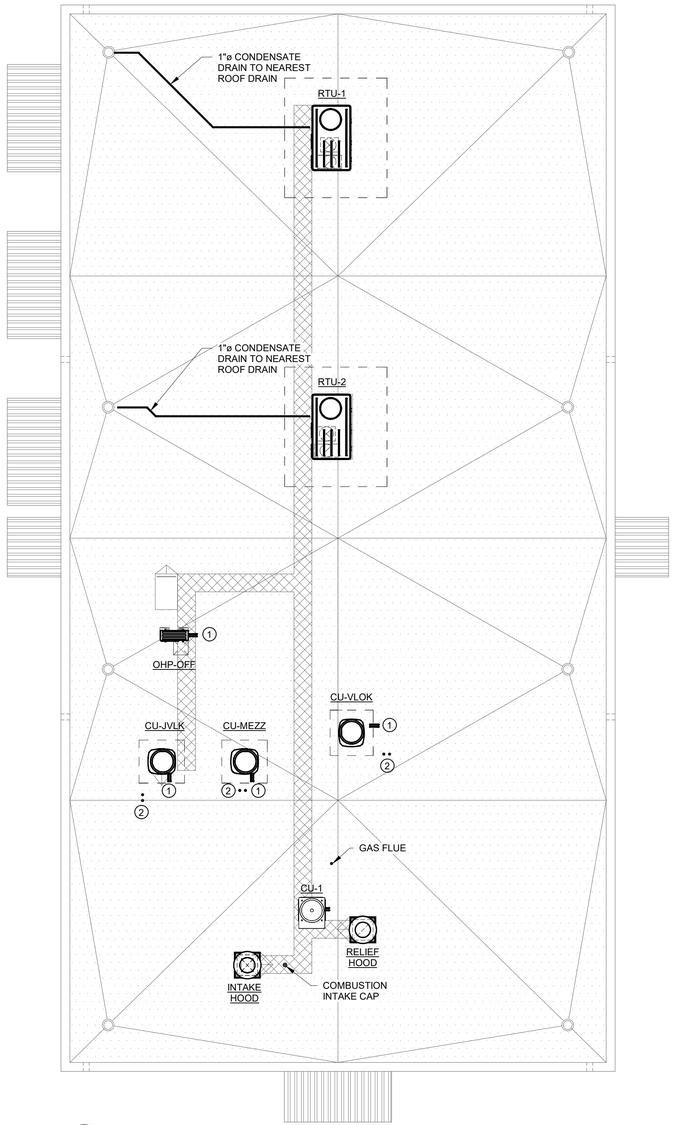

1 MECHANICAL - HIT HOUSE ROOF LEVEL
1/8" = 1'-0"

KEY NOTES:

1. REFRIGERANT LINES DOWN THRU ROOF TO RESPECTIVE INDOOR UNIT
2. CONCENTRIC FLUE / INTAKE CAP

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ALABAMA
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PROFESSIONAL
3/13/2024
ENGINEER
WADE STEWART

SHEET TITLE:
MECHANICAL - HIT HOUSE ROOF PLAN

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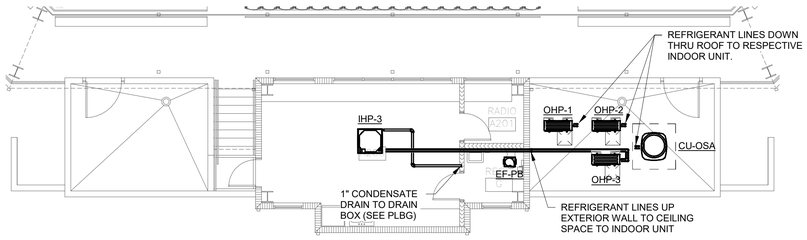
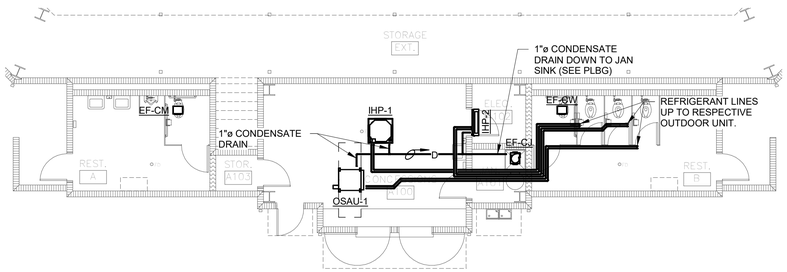
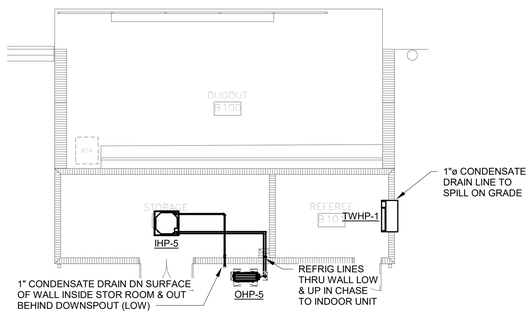


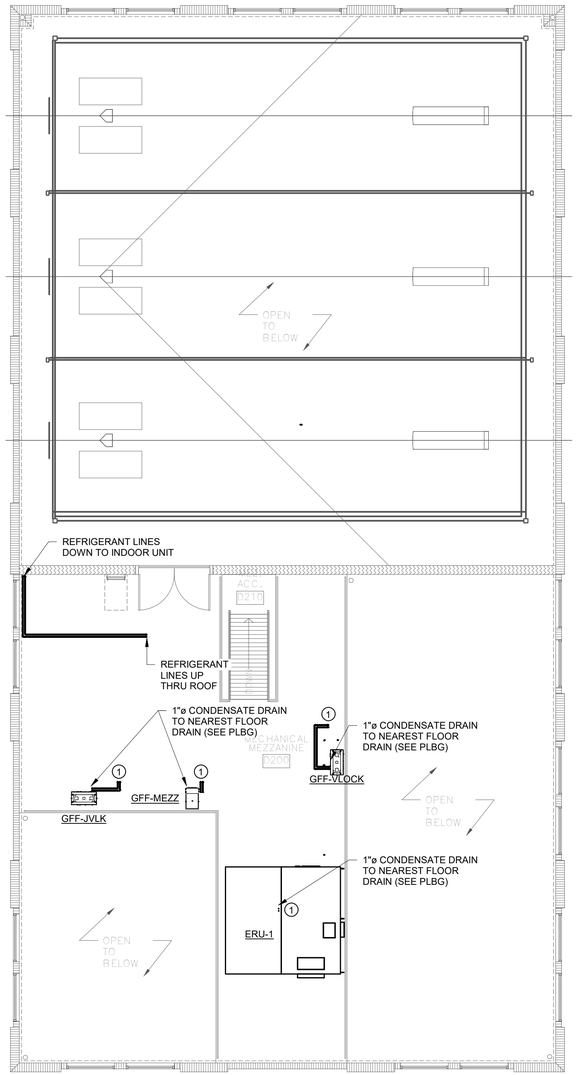
2 PIPING - CONCESSIONS/PRESSBOX UPPER LEVEL
1/8" = 1'-0"



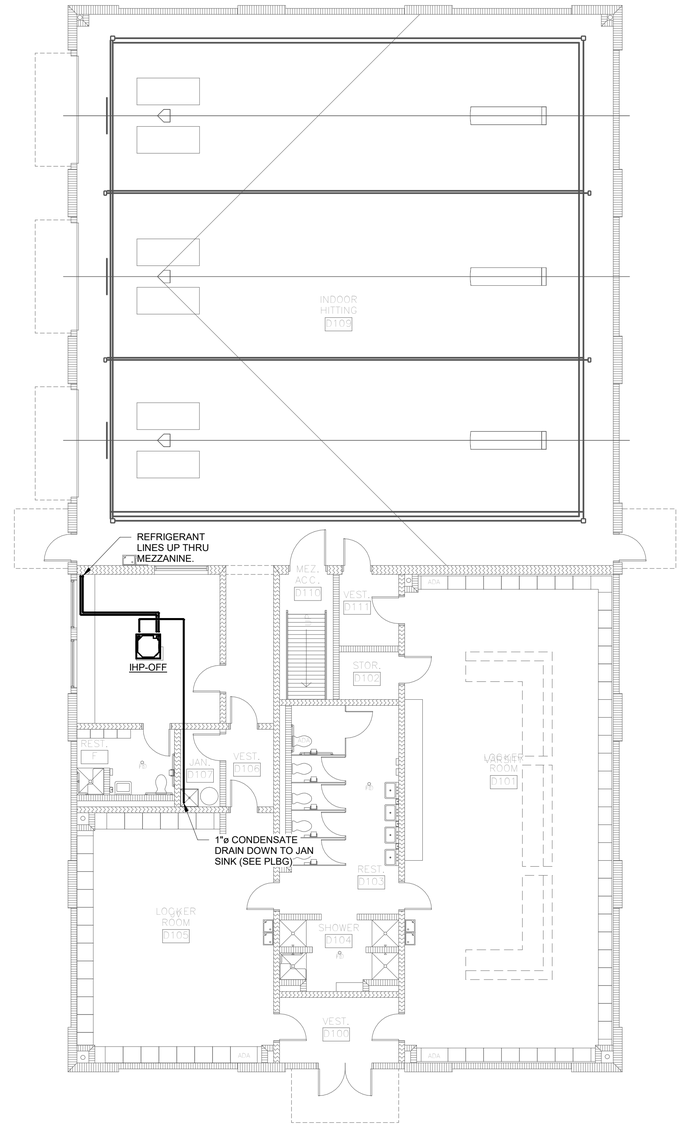
1 PIPING - CONCESSIONS/PRESSBOX LOWER LEVEL
1/8" = 1'-0"



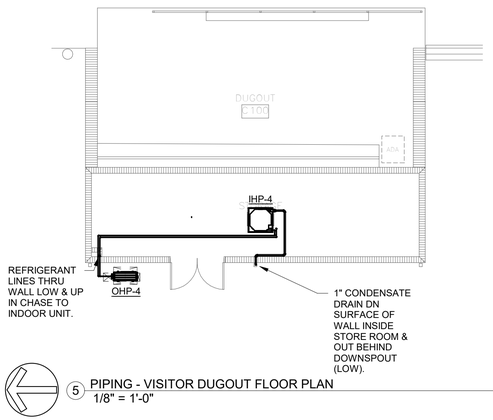
6 PIPING - HOME DUGOUT FLOOR PLAN
1/8" = 1'-0"



4 PIPING - HIT HOUSE UPPER LEVEL
1/8" = 1'-0"



3 PIPING - HIT HOUSE LOWER LEVEL
1/8" = 1'-0"



5 PIPING - VISITOR DUGOUT FLOOR PLAN
1/8" = 1'-0"

KEY NOTES:

1 REFRIGERANT LINES DOWN THRU ROOF TO RESPECTIVE INDOOR UNIT

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LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER	CATALOG NO.	LAMPS			MOUNTING HEIGHT	TYPE MOUNTING	RECESS DEPTH	REMARKS
			NO.	WATTS	TYPE				
A	METALUX	24FP6440C-UNV	FURNISHED WITH FIXTURE			CEILING	RECESSED	3-1/4"	
A (EM)	METALUX	24FP6440C-UNV EBPLED14W	FURNISHED WITH FIXTURE			CEILING	RECESSED	3-1/4"	SEE NOTE 1
B	METALUX	22FP4740C-UNV	FURNISHED WITH FIXTURE			CEILING	RECESSED	3-1/4"	
B (EM)	METALUX	22FP4740C-UNV EBPLED14W	FURNISHED WITH FIXTURE			CEILING	RECESSED	3-1/4"	SEE NOTE 1
C	ASD LIGHTING	ASD-LFL-01-22-40-40	FURNISHED WITH FIXTURE			CEILING	SEMI-RECESS		
C (EM)	ASD LIGHTING	ASD-LFL-01-22-40-40 EBPLED14W	FURNISHED WITH FIXTURE			CEILING	SEMI-RECESS		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
E	SURE-LITES	SEL-D-W-60-BK-SD-120	FURNISHED WITH FIXTURE			+8'	BRACKET		
F	MCGRAW-EDISON	ISW-E02-LED-E1-BL4-BZ-TR-OSB	FURNISHED WITH FIXTURE			+9'	BRACKET		
F (EM)	MCGRAW-EDISON	ISW-E02-LED-E1-BL4-BZ-TR-BBB	FURNISHED WITH FIXTURE			+9'	BRACKET		SEE NOTE 1
G	FAIL-SAFE	HVSL4-8-LD4-2-STD-35-UNV-0-EDC1-BK	FURNISHED WITH FIXTURE			VERIFY	SURFACE		
H	ELLIPTIPAR	S-175-H-8-H-06-M-00-0-935-RGB-ZX-HFA	FURNISHED WITH FIXTURE			CEILING	BRACKET		
K	LUMIERE	303-W1-LED81-3000-120-T2-XX	FURNISHED WITH FIXTURE			VERIFY WITH ARCHITECT	BRACKET		
L	FAIL-SAFE	HVSL8-8-LD4-2-STD-35-UNV-0-EDC1-BK	FURNISHED WITH FIXTURE			CEILING	SURFACE		
L (EM)	FAIL-SAFE	HVSL8-8-LD4-2-STD-35-UNV-0-EDC1-EL14W-BK	FURNISHED WITH FIXTURE			CEILING	SURFACE		SEE NOTE 1
M	PATHWAY LIGHTING	6VLFL2X-3000-35K-DA-6VLEDMD-SCLPF	FURNISHED WITH FIXTURE			CEILING	RECESSED	6"	
P1	NLS LIGHTING	NV-1-T4-64L-7-40K-UNV-BRZ	FURNISHED WITH FIXTURE			+30'	POLE		POLE #SSS-25B5-4-DM19AS COLOR BRONZE (VER.)
R	LIGMAN LIGHTING	UOD-50011-36W-N-W40-01-120V	FURNISHED WITH FIXTURE			MOUNT ON SCOREBOARD	FLOOD		FLAG POLE FLOOD COORDINATE FOR MOUNTING
S	HALO	SLD405-8-35-WH-UNV	FURNISHED WITH FIXTURE			CEILING	RECESSED	1.5"	
X	SURE-LITES	APX-7-R-WH	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, DAYBRITE, PARKER, AND COLUMBIA WILL BE CONSIDERED APPROVED EQUALS.

GENERAL NOTES

1. SERVICE TO PROJECT IS 120/208 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. 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.
8. 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.
9. ALL CONDUIT CONCEALED UNLESS SPECIFICALLY SHOWN EXPOSED.
10. 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.
11. 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.
12. 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.)

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. GROUND-GREEN

ELECTRICAL SYMBOLS

A_a^1	CEILING OUTLET - FIXTURE "A", CIRCUIT 1, SWITCH a.
	CEILING OUTLET - FLUORESCENT FIXTURE.
	CEILING OUTLET - FLUORESCENT INDUSTRIAL OR STRIP TYPE.
H	WALL OUTLET - INCANDESCENT BRACKET TYPE.
H	WALL OUTLET - FLUORESCENT BRACKET TYPE.
	WALL OUTLET - DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT5362A-GRY WITH PT6STR PLUG TAIL CONNECTOR.
D	WALL OUTLET - DOUBLE DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT5362A-GRY WITH PT6STR PLUG TAIL CONNECTOR.
	WALL OUTLET - DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT5362A-GRY WITH PT6STR PLUG TAIL CONNECTOR - MOUNT AT 6" ABOVE COUNTER.
	WALL OUTLET - SINGLE OUTLET, 30A, 250V, 3W, BY HUBBELL OR APPROVED EQUAL.
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".
USB	WALL OUTLET - DUPLEX OUTLET, 20A, 125V, GROUNDED, LEGRAND PTTR20ACUSB-GRY WITH PT6STR PLUG TAIL CONNECTOR.
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.
	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) 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
SSP-S	SOUND SYSTEM RACK - PRESS BOX - SEE SPEC.
SK	SOUND SYSTEM - POLE MOUNTED SPEAKER - SEE SPEC.
S	SOUND SYSTEM - WIRING IN 1" CONDUIT - SEE SPEC.
M	SOUND SYSTEM - MICROPHONE WIRING IN 1" CONDUIT - SEE SPEC.
M	SOUND SYSTEM - MICROPHONE OUTLET - SEE SPEC.
$WS	WALL STATION - COOPER #RC-4STB-0SJ WITH WALL PLATE
$MS	WALL SWITCH WITH BUILT IN MOTION SENSOR - COOPER #ONW-D-1001-MV-W WITH WALL PLATE
$OR	LIGHTING CONTROL PANEL OVERRIDE SWITCH - DIGITA 5-1B
M	MOTION SENSOR WIRING - LOW VOLTAGE WIRING (#14 THHN AS REQUIRED)
▽	COMPUTER OUTLET - RUN CAT 6 CABLING AS NOTED IN 3/4" CONDUIT (CONDUIT TO ABOVE LAY-IN CEILING UNLESS OTHERWISE NOTED).
CK	FUTURE CAMERA OUTLET - RUN 1 CAT 6 CABLE TO IDF IN 3/4" CONDUIT.
D	DATA CONDUIT - BELOW GRADE DATA CONDUIT WITH DATA CABLES (3/4" UNLESS OTHERWISE SPECIFIED)

CODE EXCEPTION NOTE

THIS PROJECT HAS BEEN DESIGNED UNDER ASHRAE 90.1 2013, EXCEPT AS FOLLOWS; WE TAKE EXCEPTION TO SECTION 8.4.2 FOR REQUIRING CONTROLLED RECEPTACLES, AND SECTION 8.4.3 FOR REQUIRING ENERGY MONITORING. WE OFFICIALLY REQUEST THAT THIS PROJECT BE APPROVED WITHOUT THOSE ITEMS.

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
MISC. AUXILIARIES (SOUND, ETC.)	BROWN

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ELECTRICAL CONSULTANTS

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Email: services@stewartengineering.org

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

Project Number:
23129

LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA LICENSED PROFESSIONAL ENGINEER J. LANCE JUNKIN No. 14817
3-13-24

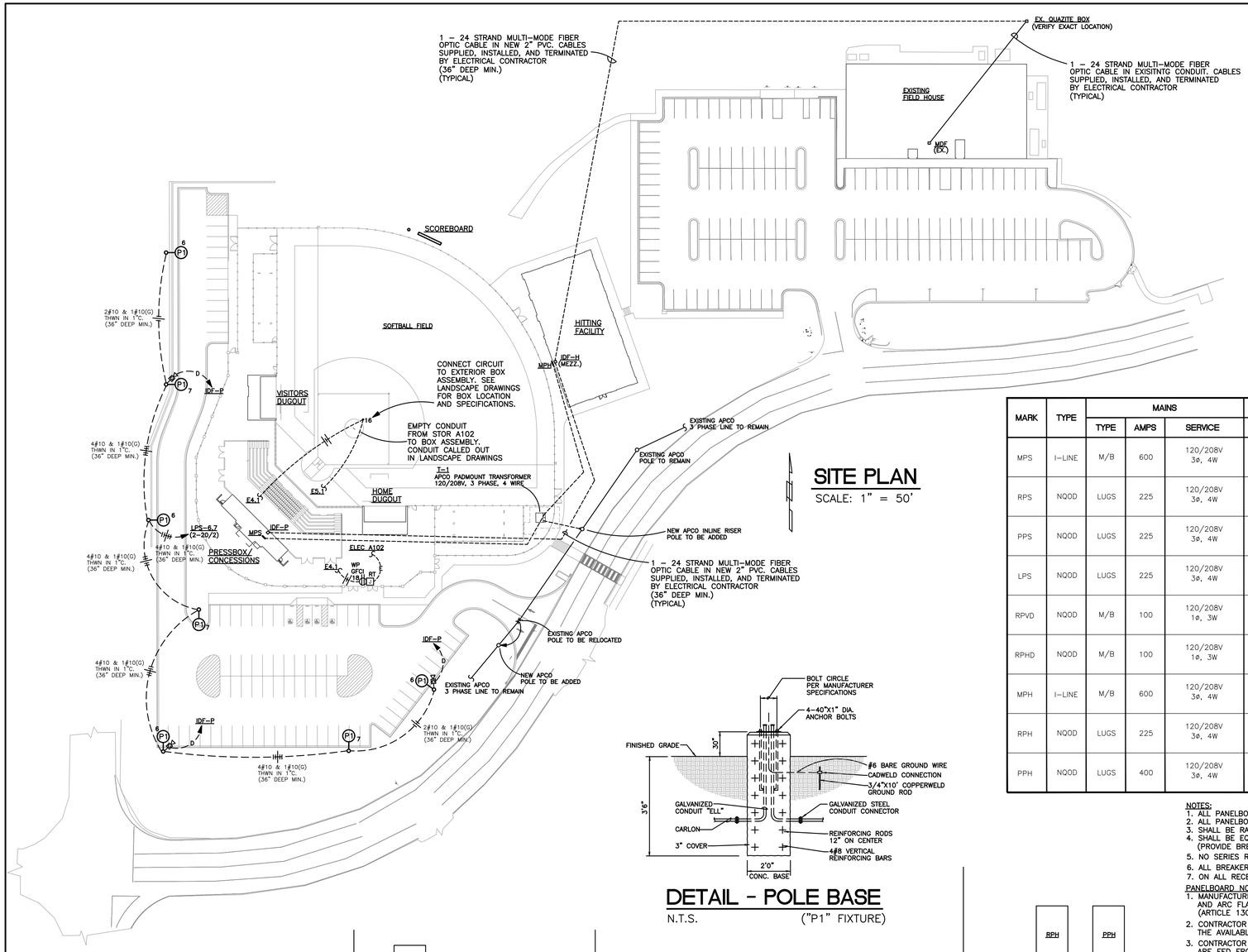
SHEET TITLE:
SCHEDULES, SYMBOLS, AND NOTES

PROJ. MGR.:	LANCE JUNKIN
DRAWN:	SEC
DATE:	MARCH 13, 2024
REVISIONS	

JOB NO. 23-72

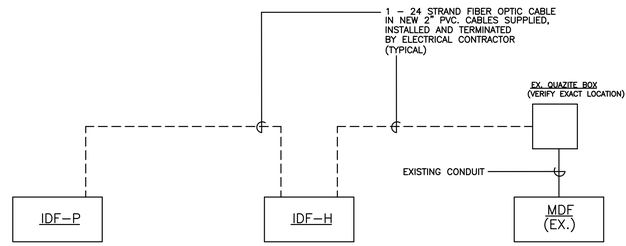
SHEET NO:
E1.1
1 OF 9

0 1" 2"



SITE PLAN

SCALE: 1" = 50'



MDF FIBER OPTIC CABLE RISER DIAGRAM

N.T.S.

DETAIL - POLE BASE

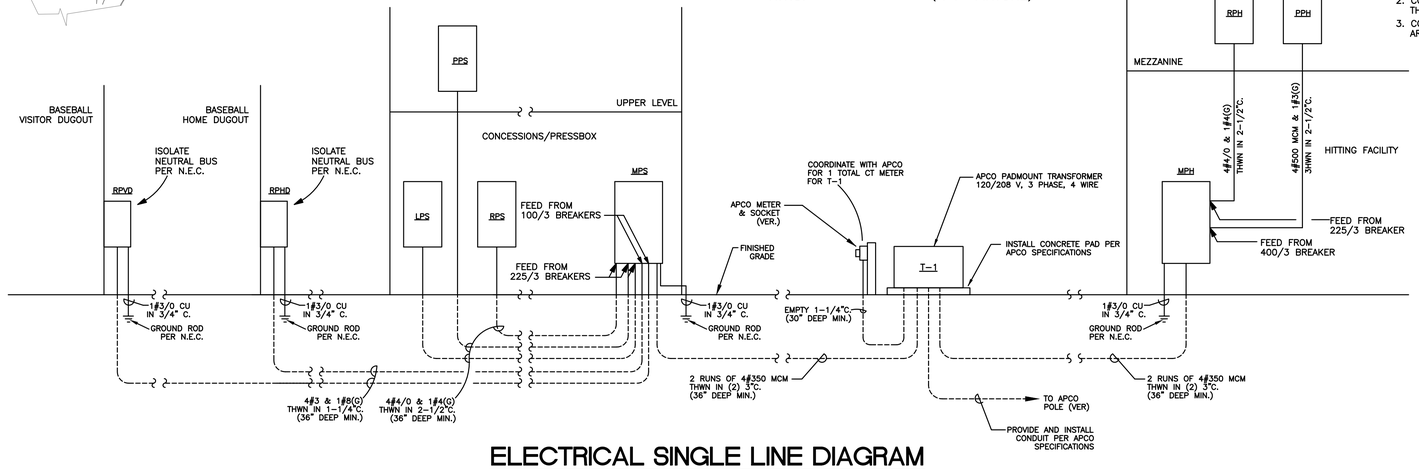
N.T.S. ("P1" FIXTURE)

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					
MPS	I-LINE	M/B	600	120/208V 3ø, 4W			1-60 2-100 3-225	2-20/3	5-3PS	BOTTOM	SURFACE	STOR A102	13,000	SEE NOTES 1, 2, 3, 4, 5, & 6
RPS	NQOD	LUGS	225	120/208V 3ø, 4W	35-20			6-20/1	13-1PS	BOTTOM	RECESSED	CONC A100	10,000	SEE NOTES 1, 2, 5, 6, & 7 54 SPACE PANEL
PPS	NQOD	LUGS	225	120/208V 3ø, 4W		2-20 1-25	1-20 1-25 1-40 1-45	6-20/1	18-1PS	BOTTOM	RECESSED	RADIO A201	12,000	SEE NOTES 1, 2, 5, 6, & 7
LPS	NQOD	LUGS	225	120/208V 3ø, 4W		3-20 2-30 2-50		6-20/1	22-1PS	BOTTOM	SURFACE	STOR A102	13,000	SEE NOTES 1, 2, 5, & 6
RPVD	NQOD	M/B	100	120/208V 1ø, 3W	4-20	1-20		6-20/1	18-1PS	BOTTOM	RECESSED	STOR C101	10,000	SEE NOTES 1, 2, 5, 6, & 7
RPHD	NQOD	M/B	100	120/208V 1ø, 3W	6-20	1-20 1-30		6-20/1	14-1PS	BOTTOM	RECESSED	REF B101	10,000	SEE NOTES 1, 2, 5, 6, & 7
MPH	I-LINE	M/B	600	120/208V 3ø, 4W			1-60 1-225 1-400	2-20/3	5-3PS	BOTTOM	SURFACE	EXTERIOR	19,000	SEE NOTES 1, 2, 3, 4, 5, & 6 NEMA 3R PANEL
RPH	NQOD	LUGS	225	120/208V 3ø, 4W	46-20			6-20/1	2-1PS	BOTTOM	SURFACE	MEZZ D200	15,000	SEE NOTES 1, 2, 5, & 6 54 SPACE PANEL
PPH	NQOD	LUGS	400	120/208V 3ø, 4W	5-20	1-20	2-20 1-35 4-45	6-20/1	20-1PS	BOTTOM	SURFACE	MEZZ D200	16,000	SEE NOTES 1, 2, 5, & 6 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.
3. SHALL BE RATED FOR SERVICE ENTRANCE EQUIPMENT.
4. SHALL BE EQUIPPED WITH BUILT-IN SURGE PROTECTION, CAPABLE OF WITHSTANDING A TRANSIENT SURGE OF 160,000 AMPS. (PROVIDE BREAKER AS REQUIRED FOR THIS PURPOSE IN MPS AND MPH).
5. NO SERIES RATING WILL BE ALLOWED ON ANY PANELBOARDS.
6. ALL BREAKERS AND PANELBOARDS 100 AMPS AND LARGER, SHALL HAVE TERMINALS RATED FOR 75'C.
7. ON ALL RECESSED PANELBOARDS, CONTRACTOR SHALL SUPPLY AND INSTALL (5) EMPTY 3/4" CONDUITS TO ABOVE LAY-IN CEILING.

PANELBOARD NOTES:
1. MANUFACTURER OF SWITCHBOARDS AND/OR PANELBOARDS SHALL PERFORM FAULT CURRENT CALCULATIONS, COORDINATION STUDY, AND ARC FLASH HAZARD ANALYSIS, AND LABEL ALL PANELBOARDS, IN ACCORDANCE WITH NFPA 70E-2009 (ARTICLE 130) AND NFPA 70-2008 (ARTICLE 110.16).
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).



ELECTRICAL SINGLE LINE DIAGRAM

N.T.S.

APCO NOTES

1. CONTRACTOR SHALL COORDINATE CLOSELY WITH ALABAMA POWER, AND SHALL PROVIDE AND INSTALL ANY AND ALL LABOR AND/OR MATERIAL, AS REQUIRED BY ALABAMA POWER, REGARDLESS OF ITS BEING OR NOT BEING SHOWN ON ELECTRICAL DRAWINGS.
2. ANY AND ALL COSTS ASSOCIATED WITH PROVIDING THIS LABOR AND/OR MATERIAL SHALL BE INCLUDED IN BID PRICE.
3. CONTRACTOR SHALL OBTAIN ALL DIRECT CHARGES FROM ALABAMA POWER, AND INCLUDE THESE CHARGES IN BID PRICE. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALABAMA POWER DURING THE BID PROCESS.

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

Project Number:
23129

LATHAN ARCHITECTS

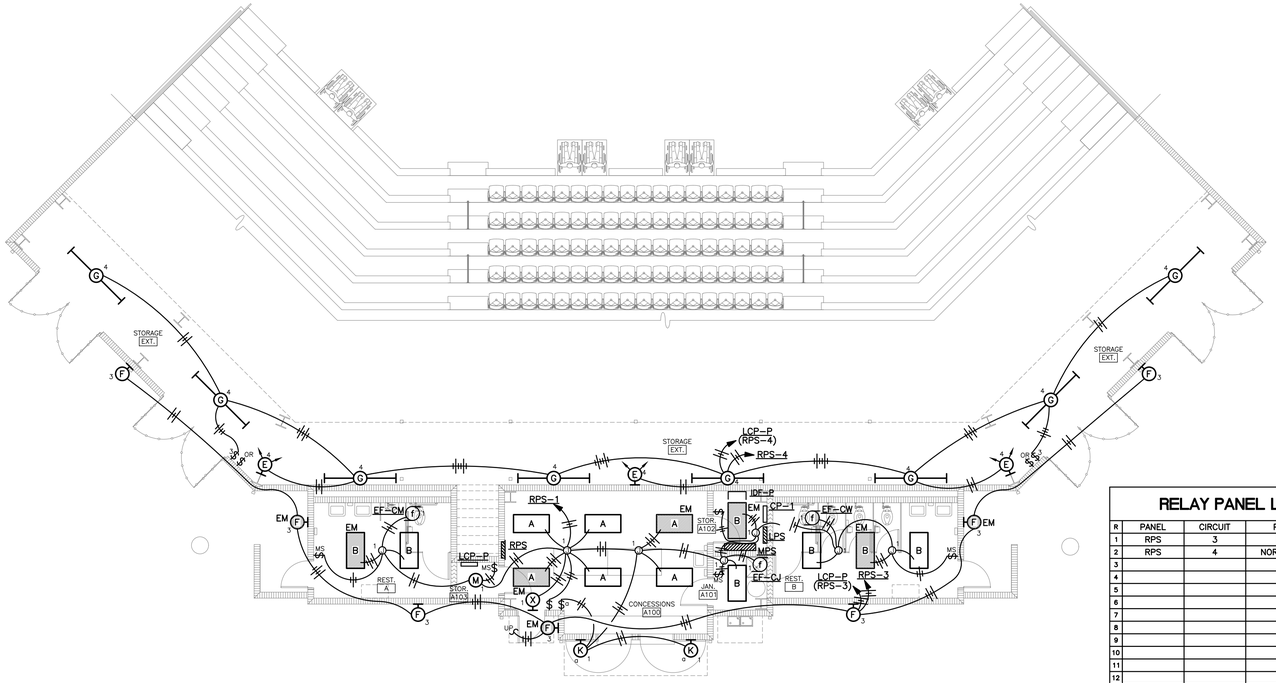
NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA LICENSED No. 14817 PROFESSIONAL ENGINEER JEFFREY LANCE JUNKIN 3-13-24

SHEET TITLE:
SITE PLAN AND
SINGLE LINE DIAGRAM

PROJ. MGR.: LANCE JUNKIN
DRAWN: SEC
DATE: MARCH 13, 2024
REVISIONS

JOB NO. 23-72
SHEET NO:
E2.1
2 OF 9



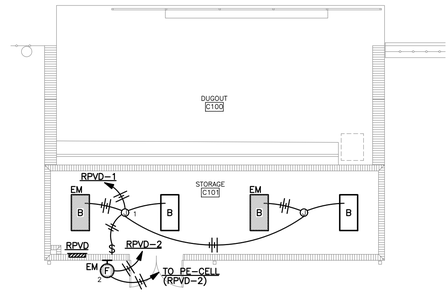
LOWER LEVEL PRESS BOX BUILDING
FLOOR PLAN - LIGHTING

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

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

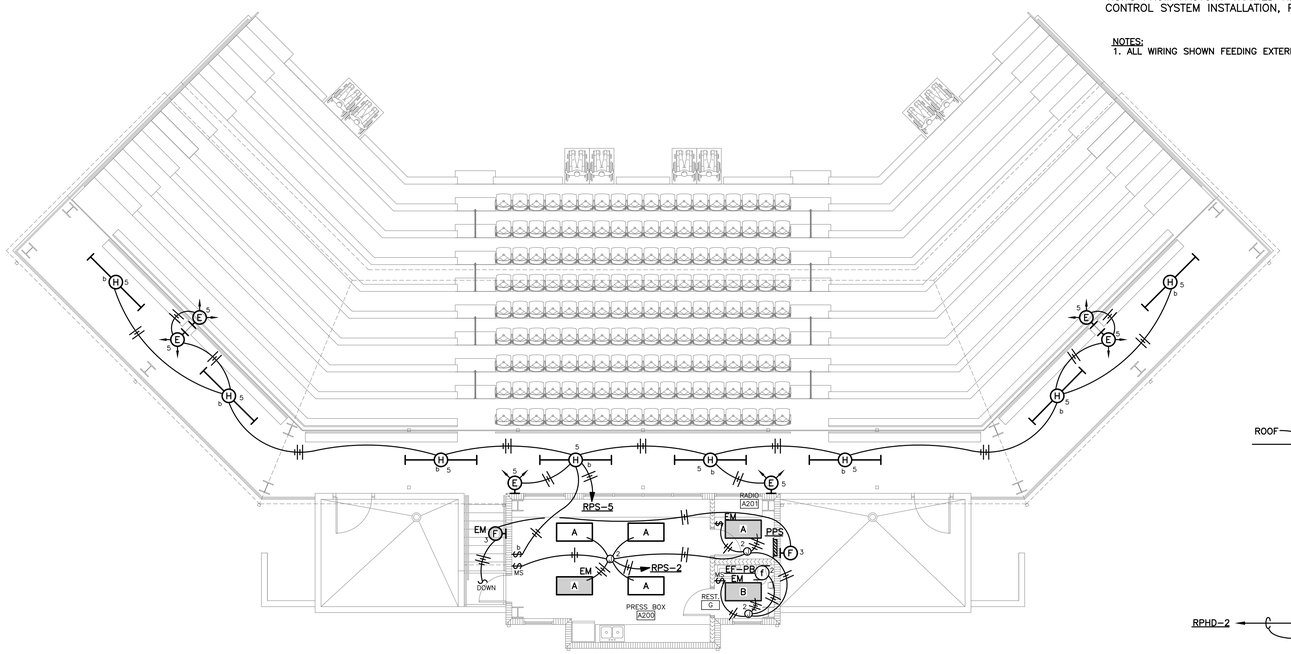
SITE VISIT NOTE:
CONTRACTOR SHALL INCLUDE IN BID PRICE A TOTAL OF (3) SITE VISITS FROM FACTORY TRAINED REPRESENTATIVE FOR LIGHTING CONTROL SYSTEM INSTALLATION, PROGRAMMING, AND TRAINING.

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



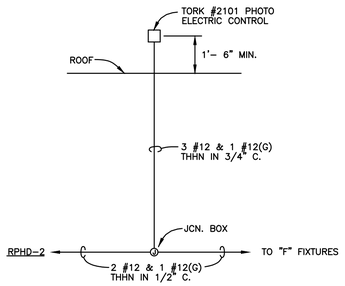
VISITORS DUGOUT
FLOOR PLAN - LIGHTING

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



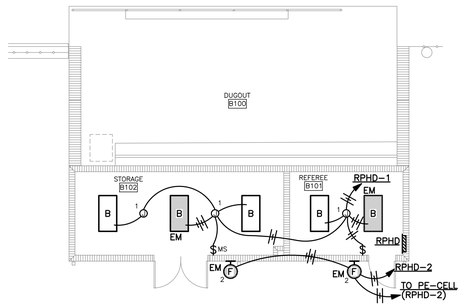
UPPER LEVEL PRESS BOX BUILDING
FLOOR PLAN - LIGHTING

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



DETAIL - P.E. CELL

N.T.S. (VISITORS DUGOUT SAME)



HOME DUGOUT
FLOOR PLAN - LIGHTING

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

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ELECTRICAL CONSULTANTS

P.O. Box 2233 (36202)
300 East 7th Street (36207)
Anniston, Alabama
Phone: 256/237-0891
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Engineer:
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Alabama Reg. 14817

Project Number:
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LATHAN ARCHITECTS

NEW SOFTBALL COMPLEX FOR
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6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA LICENSED No. 14817 PROFESSIONAL ENGINEER JEFFREY LANCE JUNKIN 3-13-24

SHEET TITLE:
FLOOR PLANS - LIGHTING

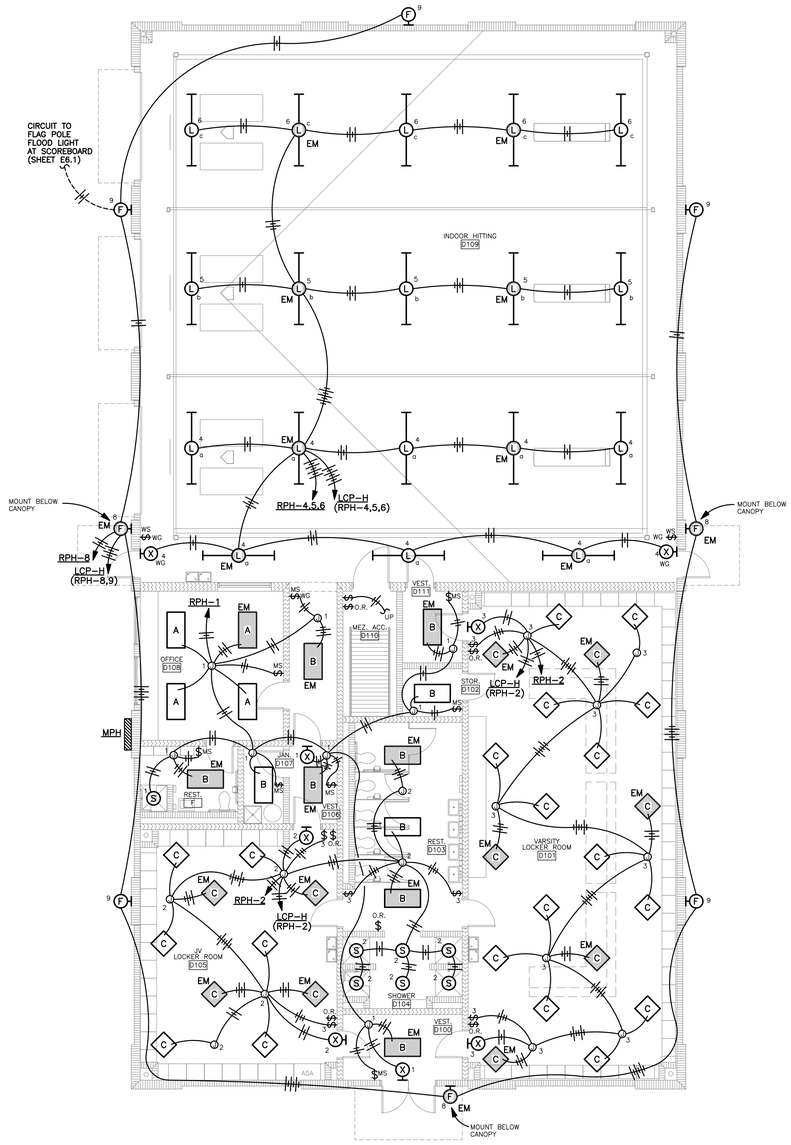
PROJ. MGR.:	LANCE JUNKIN
DRAWN:	SEC
DATE:	MARCH 13, 2024
REVISIONS	

JOB NO. 23-72

SHEET NO:
E3.1

3 OF 9

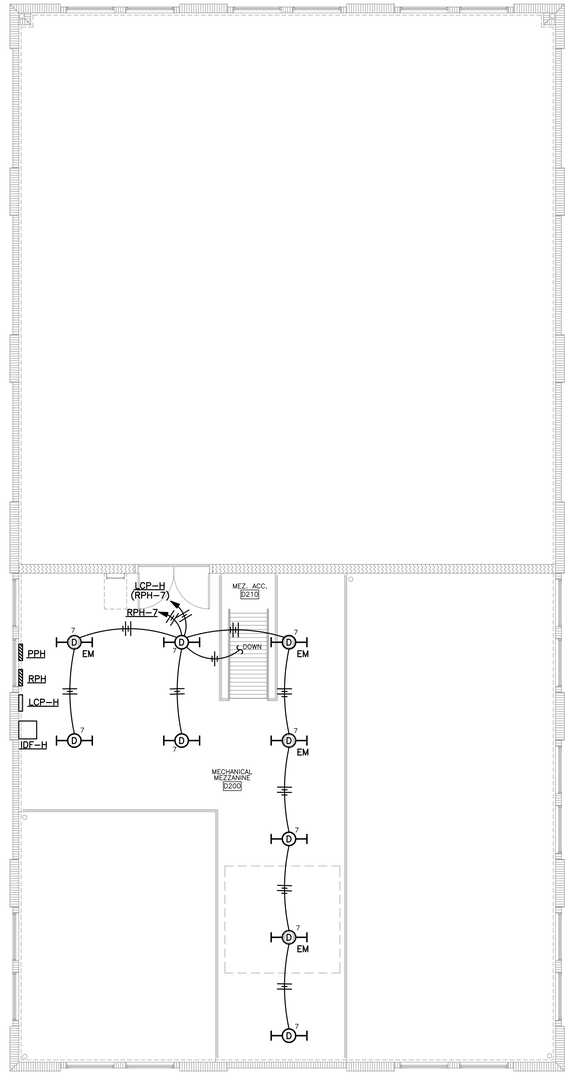
0 1" 2"



LOWER LEVEL LOCKER ROOM/HITTING FACILITY FLOOR PLAN - LIGHTING

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

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



MECHANICAL MEZZANINE LOCKER ROOM/HITTING FACILITY FLOOR PLAN - LIGHTING

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

RELAY PANEL LCP-H

R	PANEL	CIRCUIT	PROGRAM MODE	
1	RPH	2	NORMAL DAY-TO-DAY	
2	RPH	3	NORMAL DAY-TO-DAY	
3	RPH	4	NORMAL DTD (SWITCH "a")	HITTING PUSHBUTTON 1
4	RPH	5	NORMAL DTD (SWITCH "b")	HITTING PUSHBUTTON 2
5	RPH	6	NORMAL DTD (SWITCH "c")	HITTING PUSHBUTTON 3
6	RPH	7	NORMAL DAY-TO-DAY	
7	RPH	8	EXTERIOR DTD	
8	RPH	9	EXTERIOR DTM	
9				
10				
11				
12				
13				
14				
15				
16				

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

WS

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

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TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA LICENSED PROFESSIONAL ENGINEER LANCE JUNKIN 14817
3-13-24

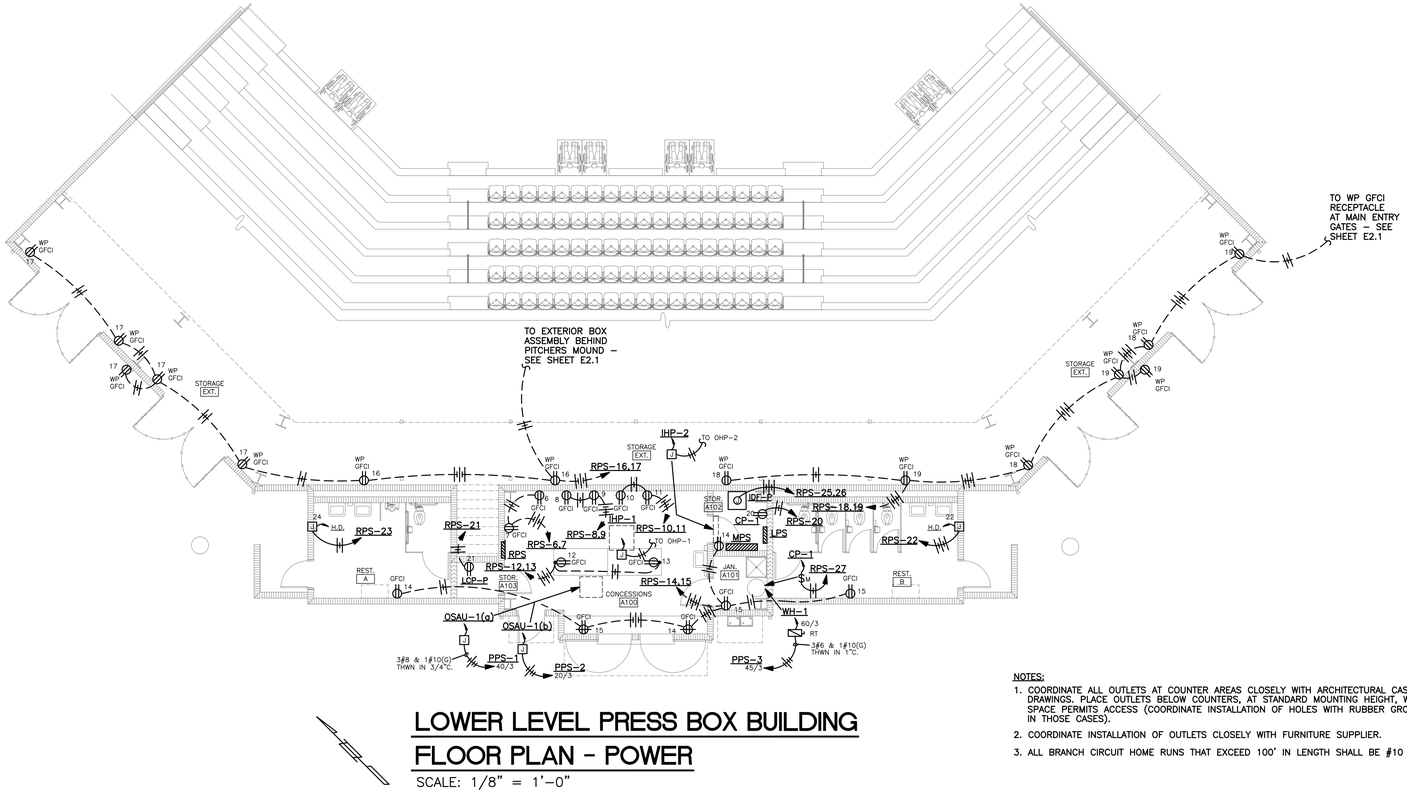
SHEET TITLE:
FLOOR PLANS - LIGHTING

PROJ. MGR.:	LANCE JUNKIN
DRAWN:	SEC
DATE:	MARCH 13, 2024
REVISIONS	

JOB NO. 23-72

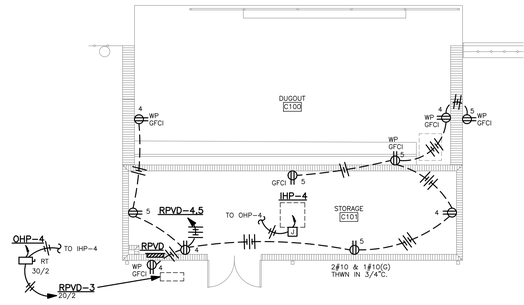
SHEET NO:
E3.2
4 OF 9

0 1" 2"



LOWER LEVEL PRESS BOX BUILDING FLOOR PLAN - POWER

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

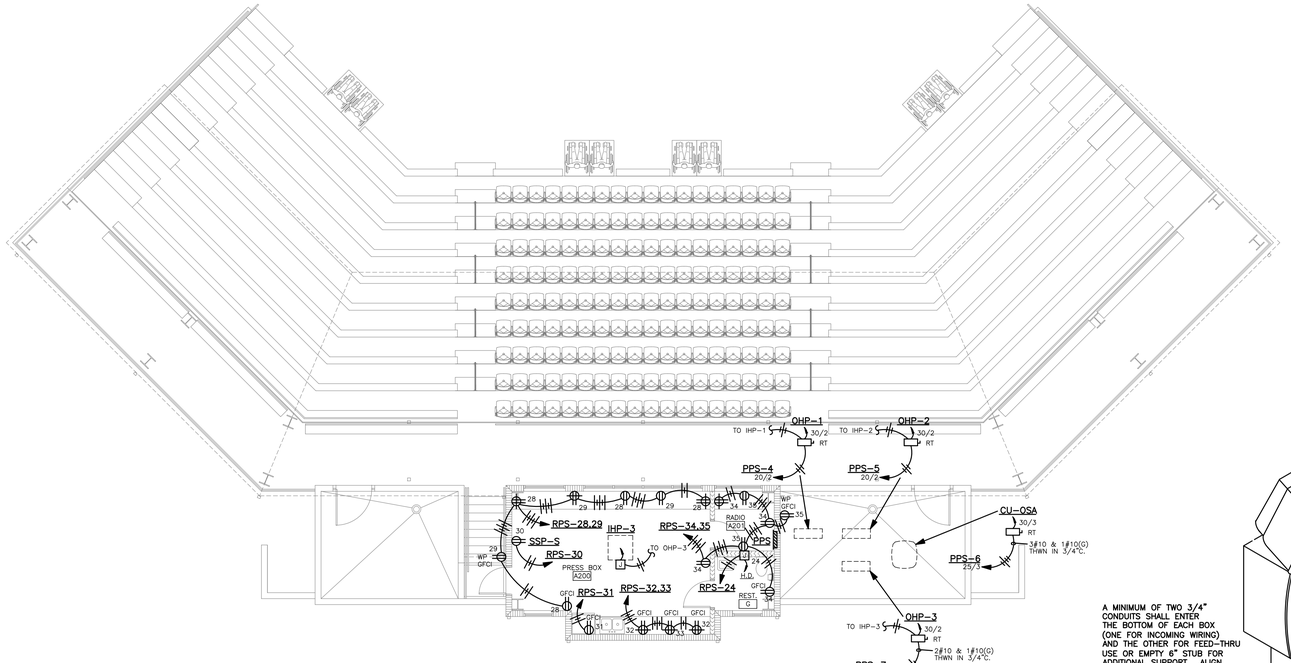


VISITORS DUGOUT FLOOR PLAN - POWER

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

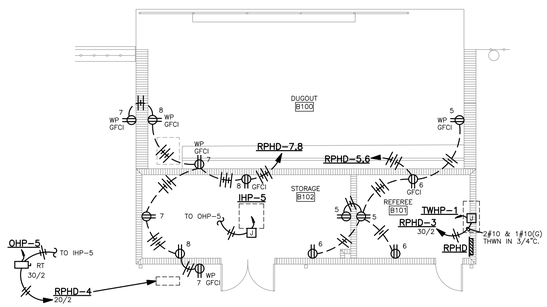
NOTES:

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.



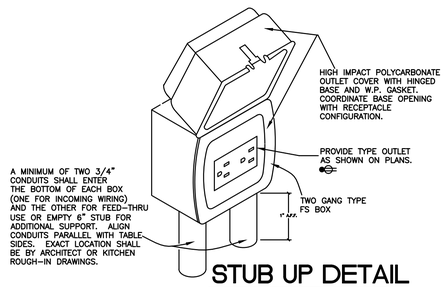
UPPER LEVEL PRESS BOX BUILDING FLOOR PLAN - POWER

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



HOME DUGOUT FLOOR PLAN - POWER

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



STUB UP DETAIL

N.T.S.

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NEW SOFTBALL COMPLEX FOR
TRUSSVILLE CITY SCHOOLS
6344 HUSKY PARKWAY, TRUSSVILLE, AL 35173
TRUSSVILLE CITY BOARD OF EDUCATION

ALABAMA LICENSED PROFESSIONAL ENGINEER JEFFREY LANCE JUNKIN No. 14817 3-13-24

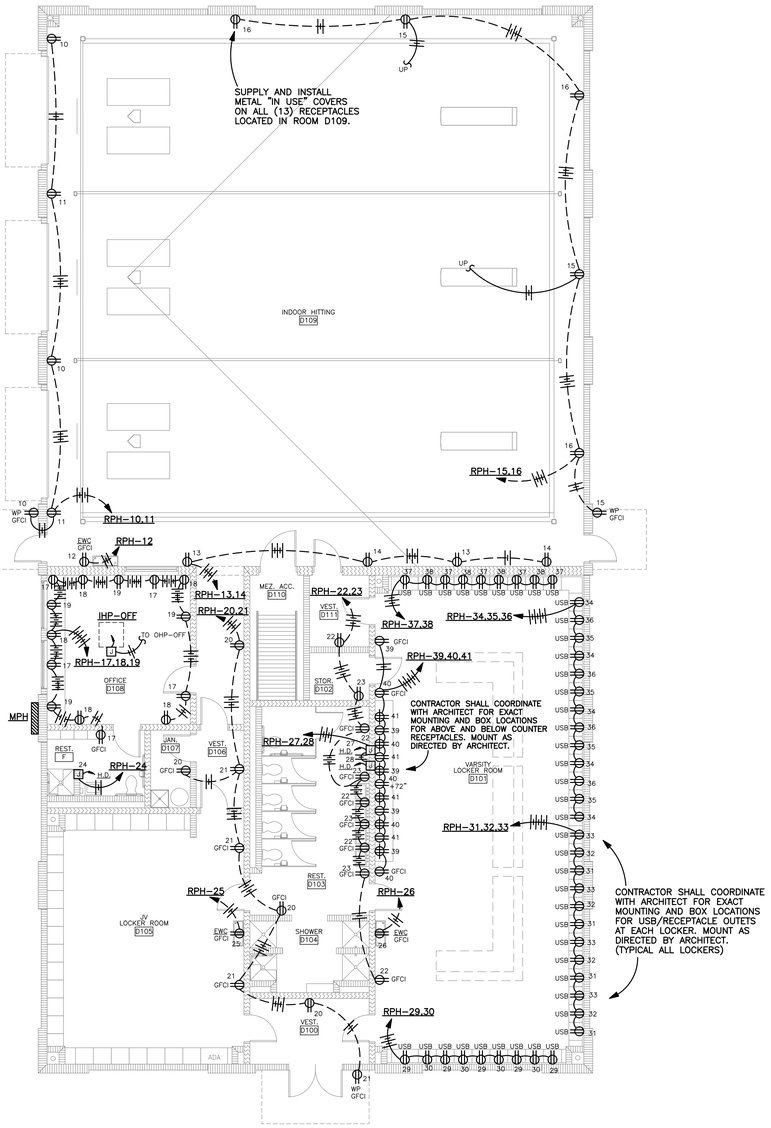
SHEET TITLE:
FLOOR PLANS – POWER

PROJ. MGR.:	LANCE JUNKIN
DRAWN:	SEC
DATE:	MARCH 13, 2024
REVISIONS	

JOB NO. 23-72

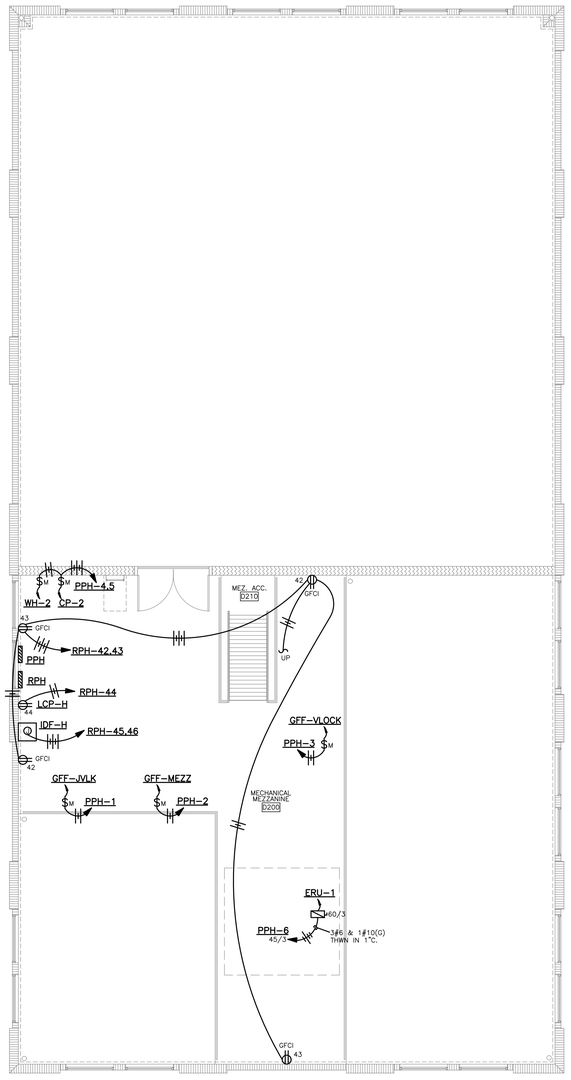
SHEET NO:
E4.1
5 OF 9

0 1" 2"



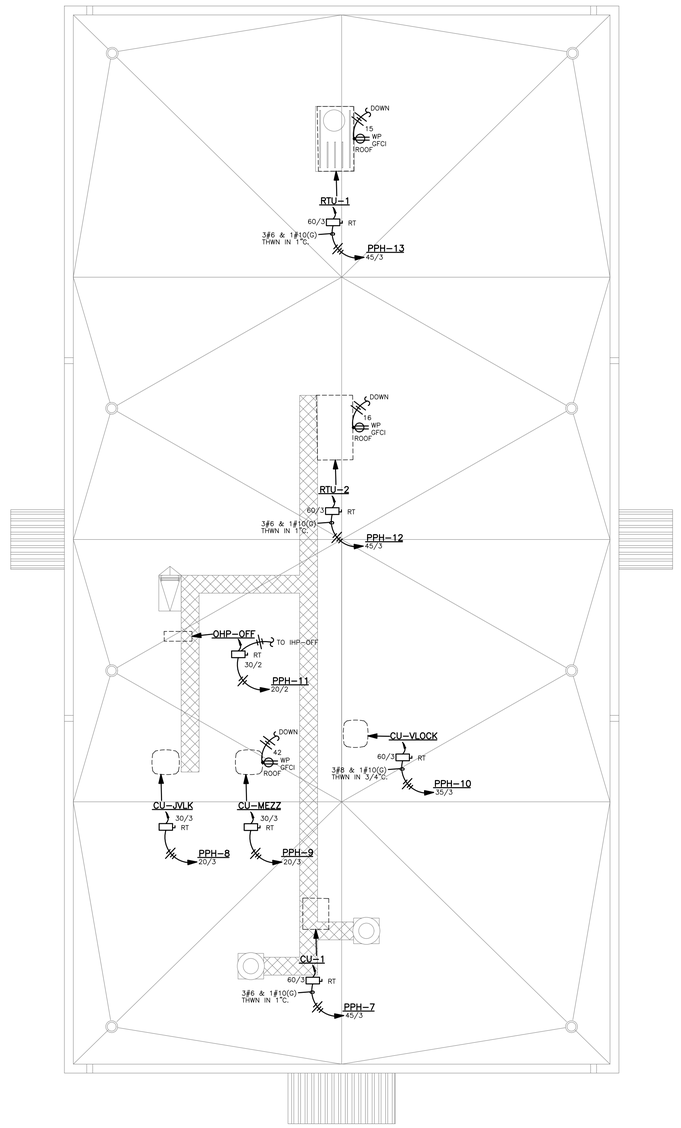
LOWER LEVEL LOCKER ROOM/ HITTING FACILITY FLOOR PLAN - POWER

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



MECHANICAL MEZZANINE LOCKER ROOM/ HITTING FACILITY FLOOR PLAN - POWER

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



MECHANICAL MEZZANINE LOCKER ROOM/ HITTING FACILITY ROOF 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.

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Email: services@stewartengineering.org

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

Project Number:
23129

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JOB NO. 23-72

SHEET NO:
E4.2
6 OF 9

0 1" 2"

AUXILIARY CIRCUIT LEGEND

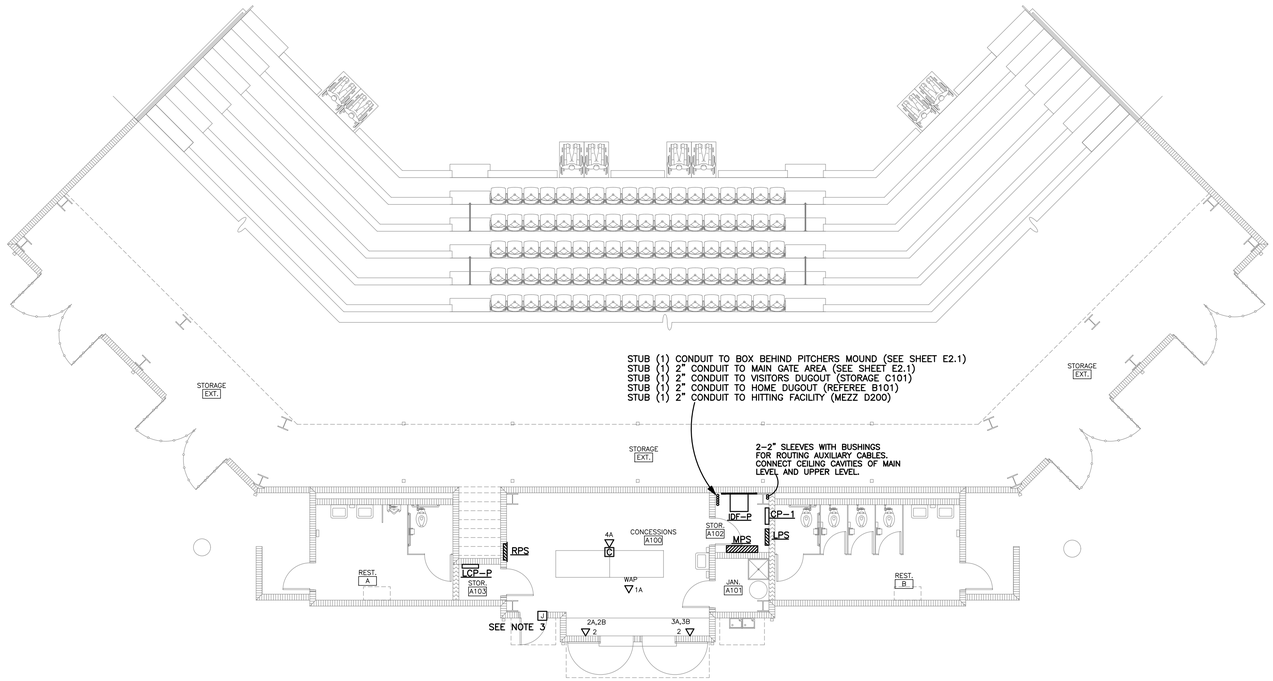
2A	DATA OUTLET 2A (1 CAT. 6 CABLE PULLED TO JUNCTION BOX AND TERMINATED, LEAVE 12" SLACK ON EACH CABLE)

OUTLET NUMBER:	ROOM NUMBER:
2A	A100
IDF NUMBER:	PATCH PANEL/PORT #:
IDF-P	1/1

DETAIL - DATA CABLE LABEL

N.T.S.

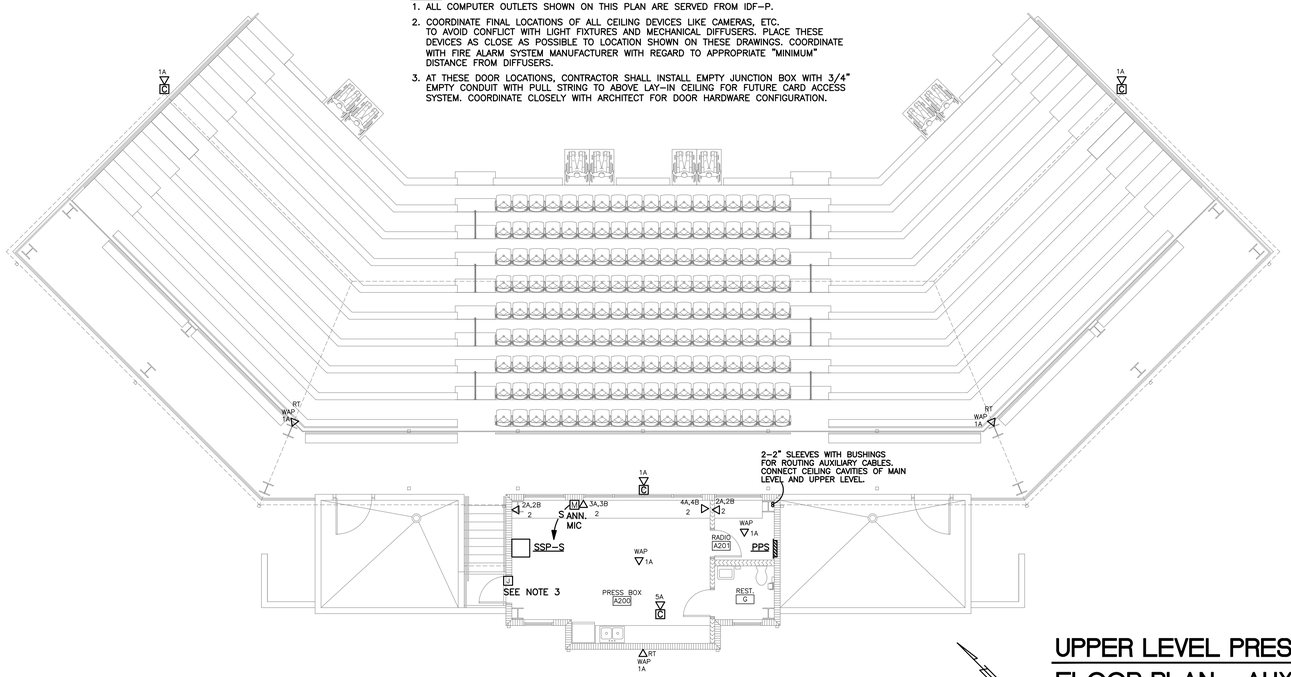
NOTES:
1. LABEL ALL CABLES EVERY 50' AND AT EACH END.
2. EXACT LABEL METHOD SHALL BE COORDINATED WITH, AND APPROVED BY, ENGINEER PRIOR TO PURCHASE AND INSTALLATION.
3. IF ONLY ONE (1) OUTLET IN A ROOM, LABEL OUTLET AS 1A.
4. ROOM NUMBERS ON LABELS SHALL CORRESPOND TO FINAL ROOM NUMBERS IN FIELD (NOT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



LOWER LEVEL PRESS BOX BUILDING FLOOR PLAN - AUXILIARIES

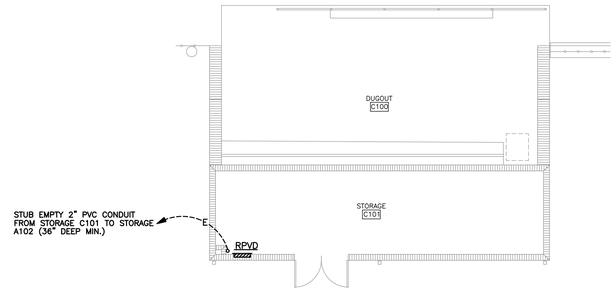
SCALE: 1/8" = 1'-0"

NOTES:
1. ALL COMPUTER OUTLETS SHOWN ON THIS PLAN ARE SERVED FROM IDF-P.
2. COORDINATE FINAL LOCATIONS OF ALL CEILING DEVICES LIKE CAMERAS, 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.
3. 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.



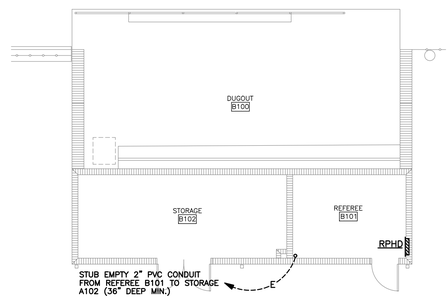
UPPER LEVEL PRESS BOX BUILDING FLOOR PLAN - AUXILIARIES

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



VISITORS DUGOUT FLOOR PLAN - AUXILIARIES

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



HOME DUGOUT FLOOR PLAN - AUXILIARIES

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

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SHEET TITLE:
FLOOR PLANS - AUXILIARIES

PROJ. MGR.:	LANCE JUNKIN
DRAWN:	SEC
DATE:	MARCH 13, 2024
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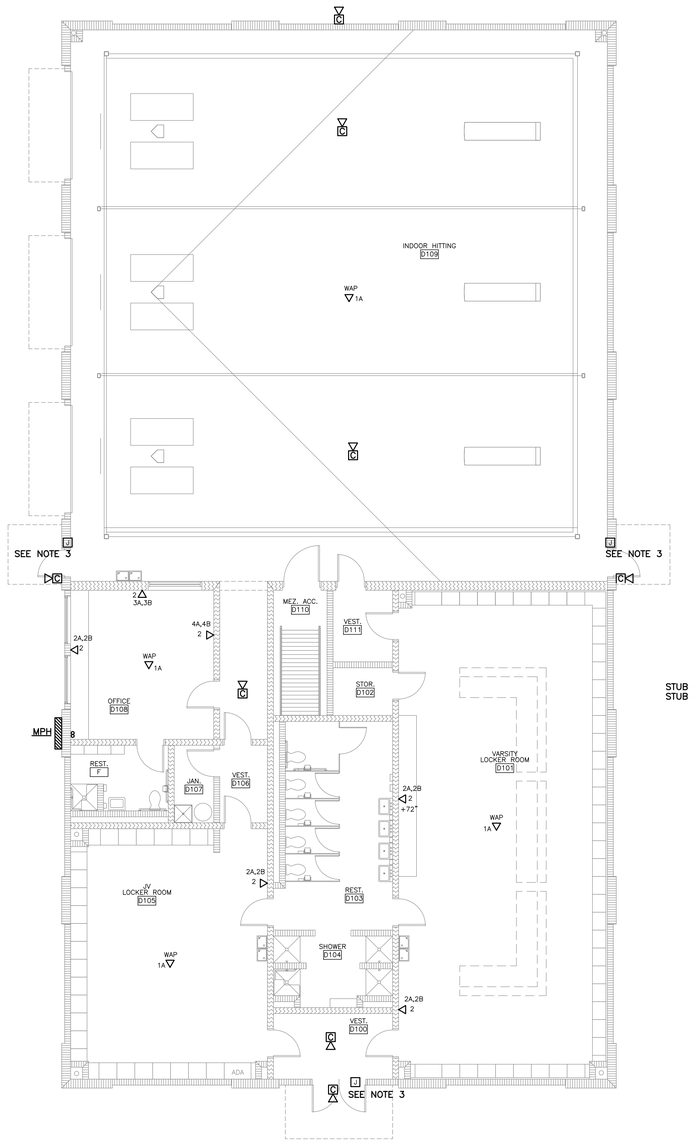
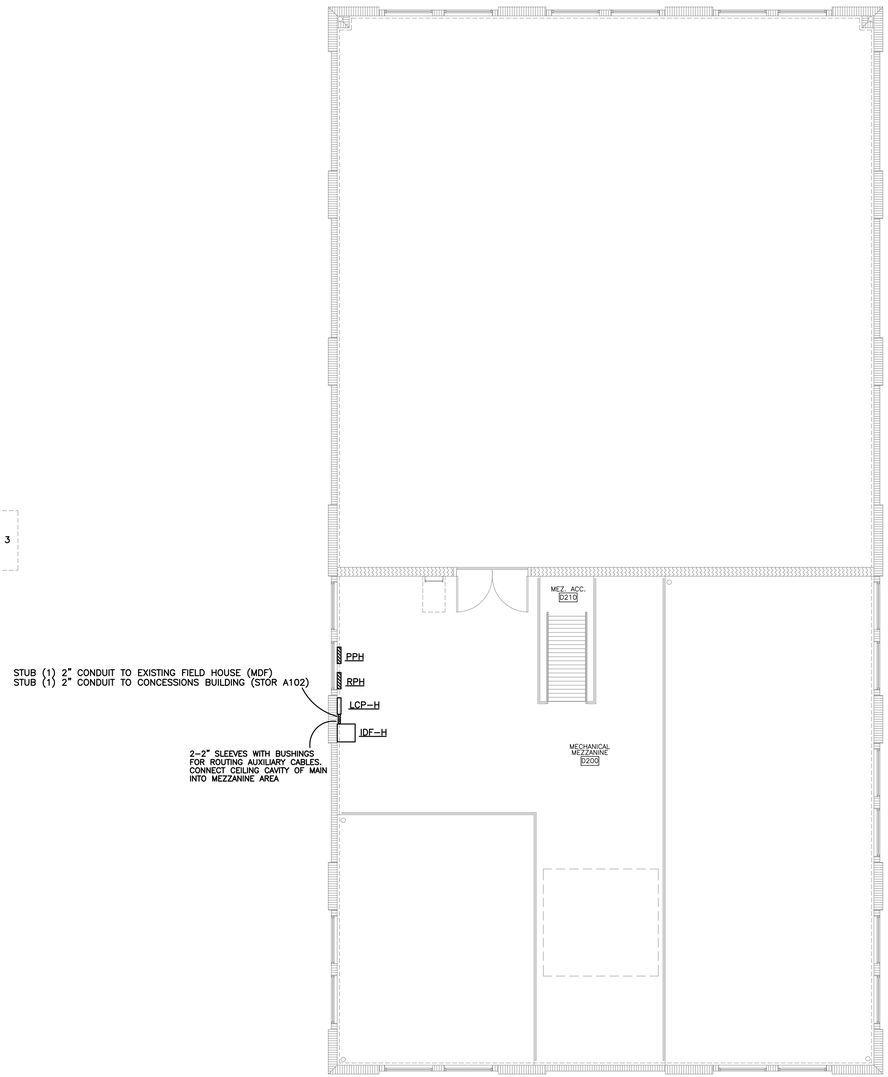
JOB NO. 23-72

SHEET NO:
E5.1

0 1" 2"





LOWER LEVEL LOCKER ROOM/HITTING FACILITY FLOOR PLAN - AUXILIARIES

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

NOTES:
1. ALL COMPUTER OUTLETS SHOWN ON THIS PLAN ARE SERVED FROM IDF-H.
2. COORDINATE FINAL LOCATIONS OF ALL CEILING DEVICES LIKE CAMERAS, 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.
3. 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.

MECHANICAL MEZZANINE LOCKER ROOM/HITTING FACILITY FLOOR PLAN - AUXILIARIES

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

AUXILIARY CIRCUIT LEGEND

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

OUTLET NUMBER:	ROOM NUMBER:
2A	D108
IDF NUMBER:	PATCH PANEL/PORT #:
IDF-H	1 / 1

DETAIL - DATA CABLE LABEL

N.T.S.

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

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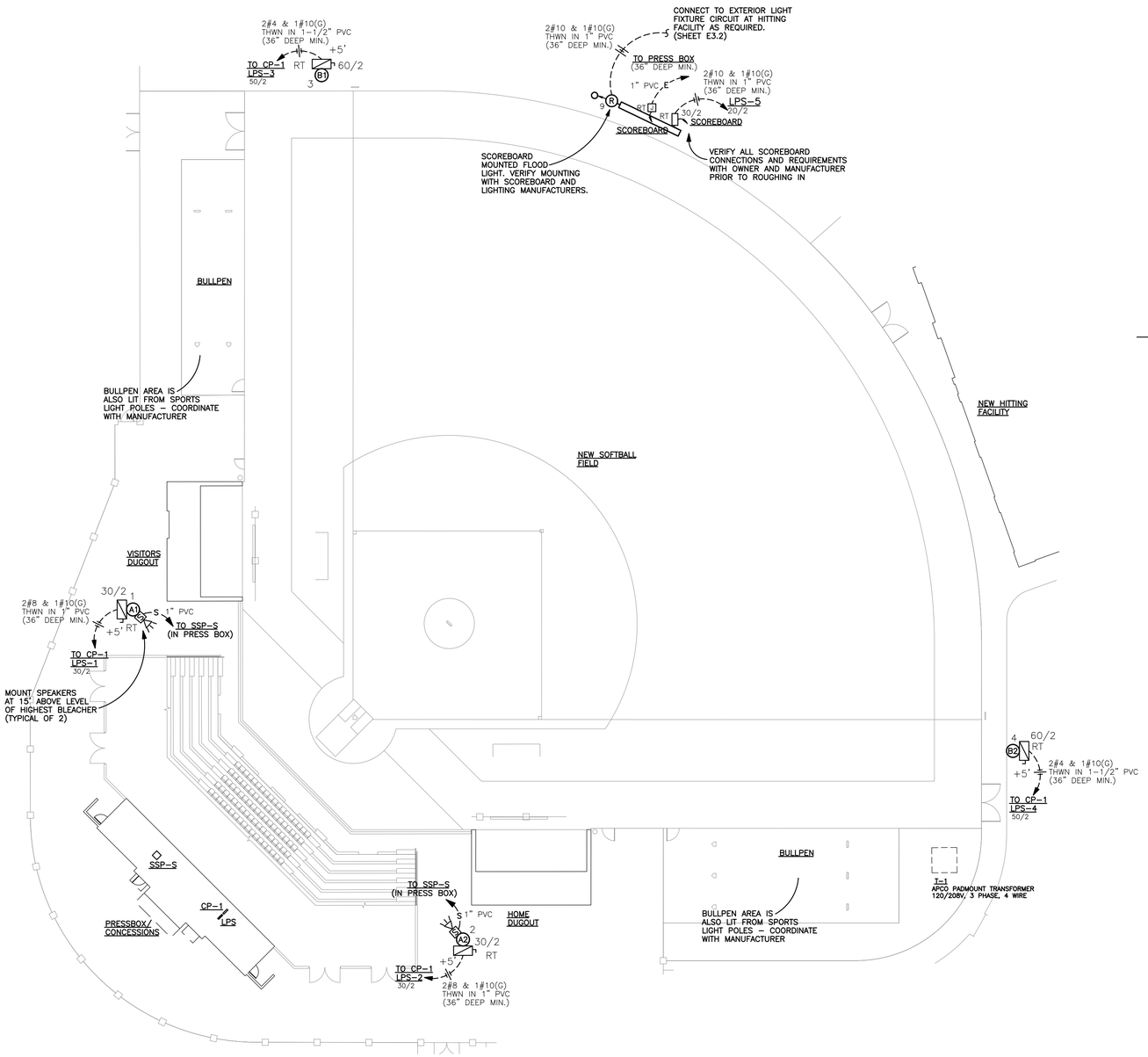
E5.2
8 OF 9

0 1" 2"



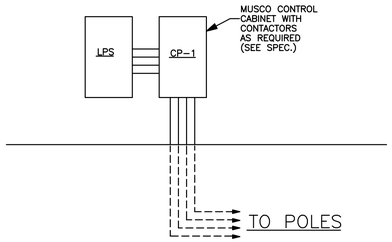
SOFTBALL FIELD LIGHTING PLAN

SCALE: 1" = 20'

NOTES:
1. ALL POLE EXCAVATION WORK SHALL BE UNCLASSIFIED.

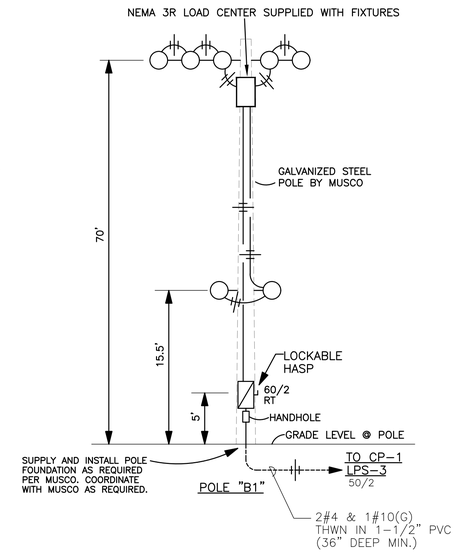
POLE FIXTURE SCHEDULE

MARK	MANUFACTURER	CATALOG NO.	LAMPS NO.	LAMPS WATTS	LAMPS TYPE	MOUNTING HEIGHT	TYPE MOUNTING	RECESS DEPTH	REMARKS
A1	MUSCO – TLC-LED-1200, TLC-LED-550, TLC-LED-900, TLC BT-575		2 | 1	1200 | 550	LED	+70' +70'	POLE		MUSCO GALVANIZED STEEL POLE
			1 | 1	900 | 575		+70' +22.5'		
A2	MUSCO – TLC-LED-1200, TLC-LED-550, TLC-LED-900, TLC BT-575		2 | 1	1200 | 550	LED	+70' +70'	POLE		MUSCO GALVANIZED STEEL POLE
			1 | 1	900 | 575		+70' +22.5'		
B1	MUSCO – TLC-LED-1500, TLC-LED-900, TLC-BT-575		4	1500	LED	+70'	POLE		MUSCO GALVANIZED STEEL POLE
			1 | 2	900 | 575		+70' +15.5'		
B2	MUSCO – TLC-LED-1500, TLC-LED-900, TLC-BT-575		4	1500	LED	+70'	POLE		MUSCO GALVANIZED STEEL POLE
			1 | 2	900 | 575		+70' +15.5'		



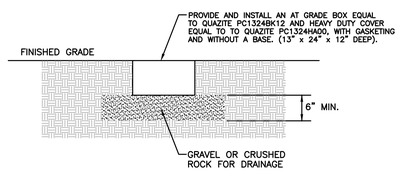
DETAIL - PANEL CP-1

N.T.S.



DETAIL - POLE WIRING

N.T.S. POLES A1,A2,B2 "SIMILAR"



DETAIL - AT GRADE JUNCTION BOX

N.T.S. (PROVIDE AND INSTALL AS REQUIRED)

WARRANTY NOTE:

1. THE ENTIRE SPORTS LIGHTING SYSTEM WORK AS INDICATED TO BE PROVIDED UNDER THIS CONTRACT SHALL INCLUDE A 25 YEAR WRITTEN WARRANTY TO FULLY COVER REPAIR AND/OR REPLACEMENT OF, INCLUDING BUT NOT LIMITED TO: EQUIPMENT, FIXTURES, REMOTE DRIVERS, LAMPS, MOUNTING EQUIPMENT, HARDWARE, CIRCUITRY, LABOR, MILEAGE, ETC. WITHOUT A DOLLAR AMOUNT LIMITATION. A SAMPLE WARRANTY OF SUCH SHALL BE INCLUDED IN THE GENERAL CONTRACTOR'S SEALED BID PROPOSAL PACKAGE AND MAY BE A CONSIDERATION IN DETERMINING THE LOWEST RESPONSIBLE BIDDER.

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0 1" 2"