ADDITIONS
TO
ELBERTA HIGH SCHOOL
FOR THE
BALDWIN COUNTY BOARD of EDUCATION
BAY MINETTE, ALABAMA

LOCATION MAP
NEW GYM ELBERTA HS BALDWIN COUNTY
13366 Illinous St, Elberta,AL 36530

VICINITY MAP
NEW GYM ELBERTA HS BALDWIN COUNTY
13366 Illinous St, Elberta,AL 36530

CONTACTS

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McKEE and ASSOCIATES
ARCHITECTS, INC.
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STATE OF ALABAMA
WALTER T. MCKEE, JR.
No. 1092
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : COVER SHEET AND INDEX TO DRAWINGS

MCKEE JOB # : 23.192

DRAWN BY : LAB

DATE: 10.4.23

REVISED DATE:

REVISED DATE:

REVISED DATE:

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- Z:\2023\23-192 Additions to Elberta High School\CAD Drawings\Architectural\---G0.1 Cover Sheet and Index.dwg
- Wednesday, October 4, 2023 4:11:05 PM

PLUMBING CALCS-STADIUM

PLUMBING REQUIREMENTS PER ALABAMA 'HB159' - "POTTY BILL"
OCCUPANT LOAD TOTAL = **4054** PERSONS (HOME & VISITORS)

TOILETS
MEN'S (1 PER 200 OCC.-1ST 1500 OCCS.) (**2027** OCC.): 11R
WOMEN'S (1 PER 75 OCC.-1ST 1520 OCCS.) (**2027** OCC.): **25**R

LAVATORIES
MEN'S (1 PER 300 OCC.) (**2027** OCC.): 7R
WOMEN'S (1 PER 300 OCC.) (**2027** OCC.): 7R

DRINKING FOUNTAINS (TABLE 2902.1)
(1 PER 1000 OCC.) (**4054** OCC.): 5R

SERVICE SINK (TABLE 2902.1): **1**R

PLUMBING PROVIDED TOTAL

TOILETS
MEN'S - 11 PROVIDED — EXISTING GYM - 7 — NEW ADDITION - 4
WOMEN'S - 25 PROVIDED — EXISTING GYM - 12 — NEW ADDITION - 13

LAVATORIES (TABLE 2902.1)
MEN'S - 7 PROVIDED — EXISTING GYM - 3 — NEW ADDITION - 4
WOMEN'S - 7 PROVIDED — EXISTING GYM- 3 — NEW ADDITION - 4

DRINKING FOUNTAINS (TABLE 2902.1)
6 PROVIDED — EXISTING GYM - 2 — NEW ADDITION - 4

SERVICE SINK (TABLE 2902.1):
1 PROVIDED (SHARED WITH MULTIPURPOSE BLDG)

PLUMBING CALCULATIONS

PLUMBING REQUIREMENTS

OCCUPANT LOAD TOTAL = **198** PERSONS

TOILETS (TABLE 2902.1)
MEN'S (1 PER 50 OCC.) (**99** OCC.): **2**R
WOMEN'S (1 PER 50 OCC.) (**99** OCC.): **2**R

LAVATORIES (TABLE 2902.1)
MEN'S (1 PER 50 OCC.) (**99** OCC.): **2**R
WOMEN'S (1 PER 50 OCC.) (**99** OCC.): **2**R

DRINKING FOUNTAINS (TABLE 2902.1)
(1 PER 100 OCC.) (**198** OCC.): **2**R

SERVICE SINK (TABLE 2902.1): **1**R

PLUMBING PROVIDED TOTAL

TOILETS (TABLE 2902.1)
MEN'S - 2 PROVIDED
WOMEN'S - 2 PROVIDED

LAVATORIES (TABLE 2902.1)
MEN'S - 2 PROVIDED
WOMEN'S - 2 PROVIDED

DRINKING FOUNTAINS (TABLE 2902.1)
2 PROVIDED

SERVICE SINK (TABLE 2902.1):
1 PROVIDED

EXIT CALCULATIONS

TOTAL BUILDING AREA

OCCUPANCY TYPE - GROUP **'E'**
BUILDING TYPE: **2B**
ALLOWABLE SF: **14,500** SQ FT (TABLE 506.2)
ACTUAL SF - **9,900** SQ FT

ALLOWABLE HEIGHT
ALLOWABLE HEIGHT: **55** FT (TABLE 504.3)
ALLOWABLE NO. OF STORIES: 2 **(TABLE 504.4)**
ACTUAL BUILDING HEIGHT: **± 20** FT
ACTUAL NO. OF STORIES: **1**

OCCUPANT LOAD

OCCUPANT LOAD TOTAL (1004 & TABLE 1004.1.2) =
198 PERSONS

EXIT REQUIREMENTS

EXIT ACCESS (1016 & TABLE 1006.3.1)
NO. OF EXITS REQUIRED: **2**
NO. OF EXITS FURNISHED: **3**

MEANS OF EGRESS WIDTH (TABLE 1005.3.2)
SEE PLAN FOR EXIT WIDTHS

CODE LEGEND

SYMBOL	DESCRIPTION
EXIT	PRIMARY BUILDING EXIT
TD 250	TRAVEL DISTANCE NEAREST TO EXIT
♿	HANDICAP ACCESSIBLE
FE	FIRE EXTINGUISHER LOCATION
168 / 340	ACTUAL OCCUPANT LOAD SERVED / TOTAL EGRESS CAPACITY

CODE REVIEW

CODE: 2015 INTERNATIONAL BUILDING CODE

OCCUPANCY TYPE: GROUP 'E'

SPRINKLERED: NO

NUMBER OF STORIES: 1

CONSTRUCTION TYPE: TYPE 3B

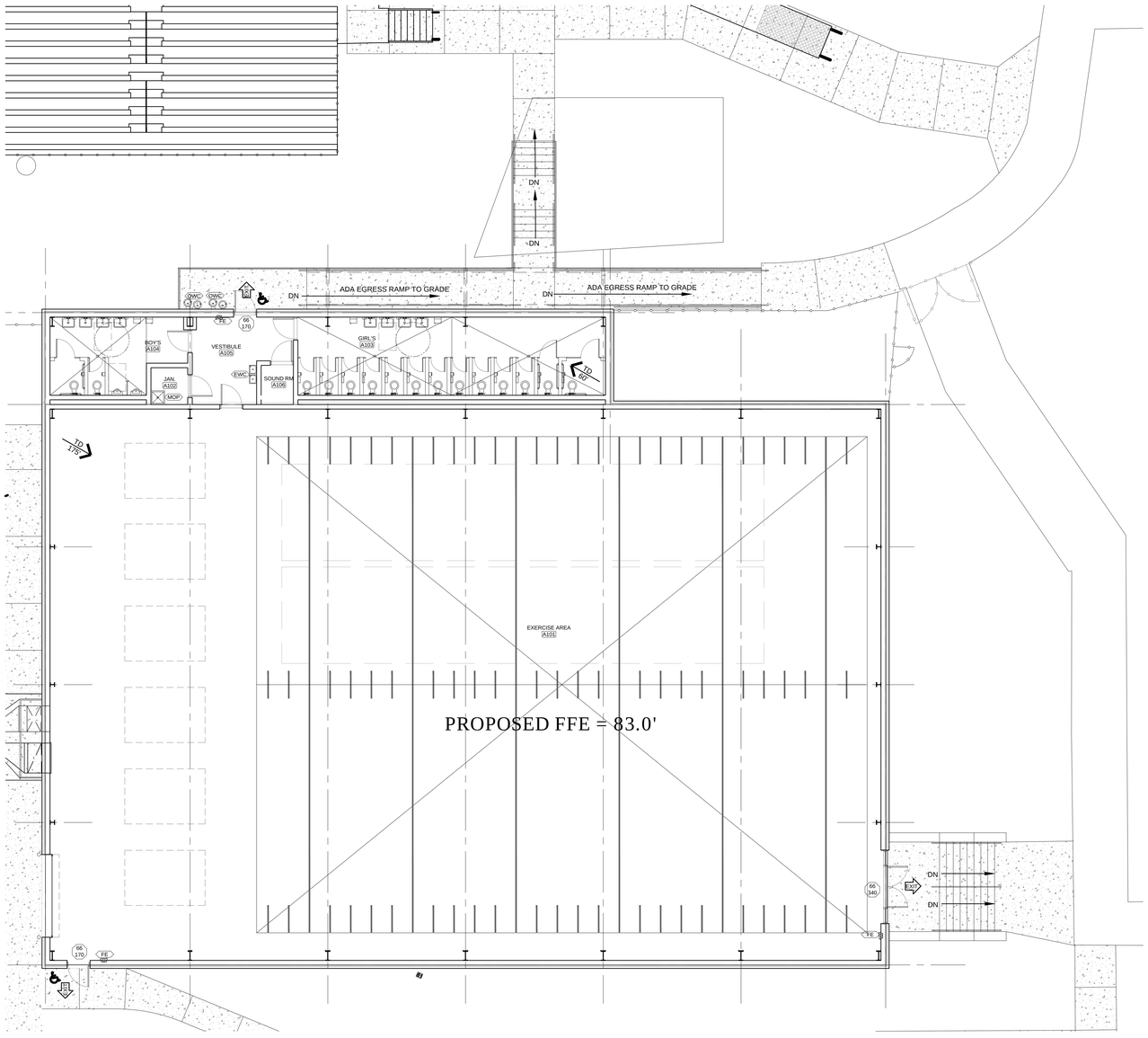
TYPE 3B, REQUIRES THE FOLLOWING
FIRE RESISTANCE (TABLE 601):

STRUCTURAL FRAME:	**0 HOUR**
EXTERIOR BEARING WALLS:	**2 HOUR**
INTERIOR BEARING WALLS:	**0 HOUR**
EXTERIOR NONBEARING WALLS:	**0 HOUR**
INTERIOR NONBEARING WALLS:	**0 HOUR**
FLOOR CONSTRUCTION:	**0 HOUR**
ROOF CONSTRUCTION:	**0 HOUR**

OTHER REQUIREMENTS:

EXIT ACCESS TRAVEL DISTANCE
IS **200** FEET FOR **GROUP E** (TABLE 1017.2)

NOTICE
FOR YOUR SAFETY
THIS IS AN
EDUCATIONAL
OCCUPANCY
WITH A
MAXIMUM OCCUPANCY OF:
198
PERSONS
BY ORDER OF
THE CODE OFFICIAL
Keep Posted Under Penalty Of Law



CODE PLAN - MULTIPURPOSE BLDG
SCALE: 1/8" = 1'-0"

ADDITIONS TO ELBERTA HIGH SCHOOL FOR THE BALDWIN COUNTY BOARD OF EDUCATION
BAY MINETTE, ALABAMA

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

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
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REGISTERED ARCHITECT

SHEET TITLE : CODE PLAN

MCKEE JOB # : 23.192

DRAWN BY : LAB

DATE: 10.4.23

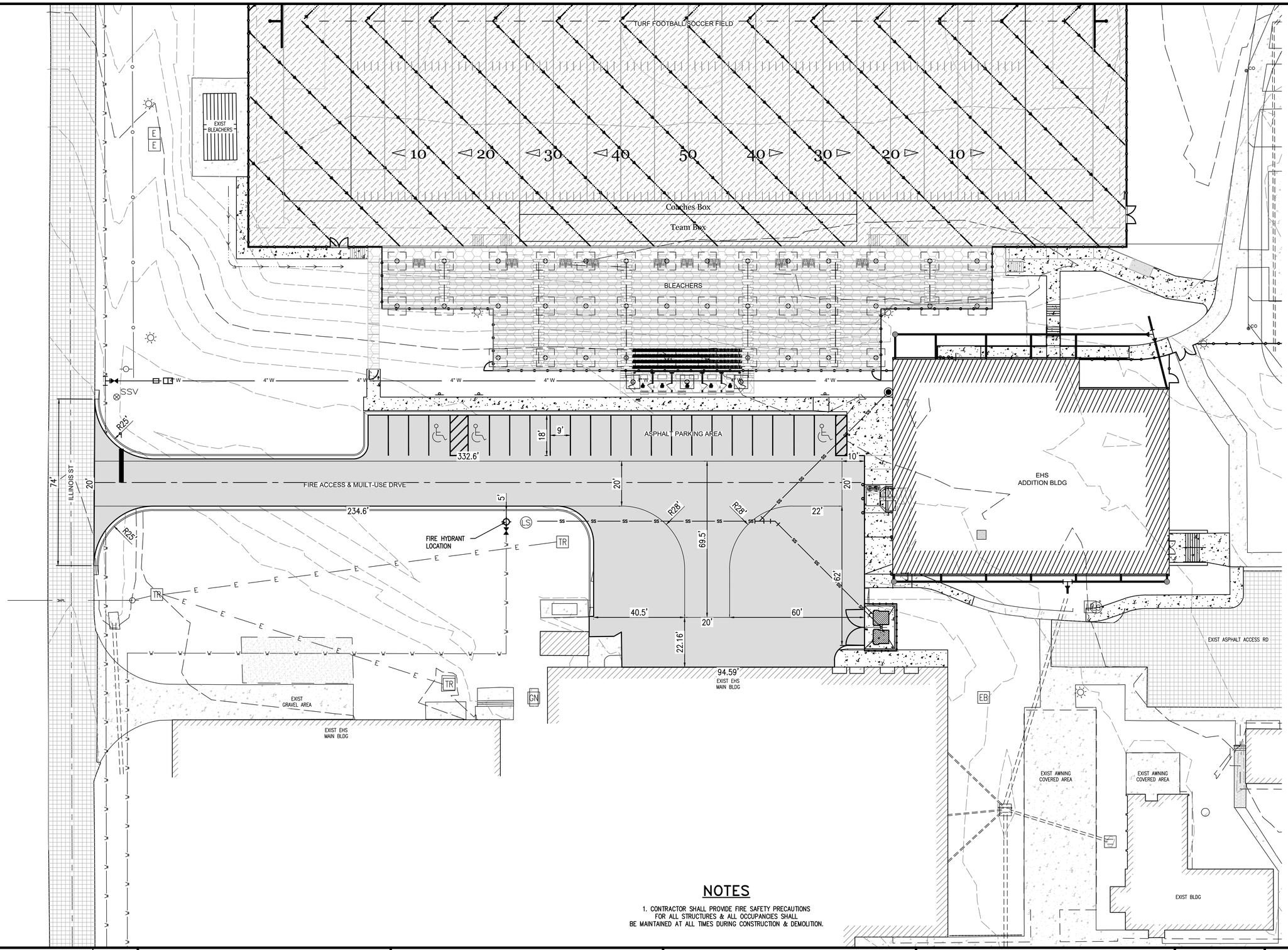
REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : G1.1

- Z:\2023\23-192 Additions to Elberta High School\CAD Drawings\Architectural\--G1.1 Code Plan.dwg
- Wednesday, October 4, 2023 10:40:06 AM



NOTES

1. CONTRACTOR SHALL PROVIDE FIRE SAFETY PRECAUTIONS FOR ALL STRUCTURES & ALL OCCUPANCIES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION & DEMOLITION.

NUMBER:	REVISION:	DATE:

Sawgrass
ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT
30673 Sgt. E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7900

GRAPHIC SCALE
0 10 20 40
1 inch = 20 feet

FIRE ACCESS OVERVIEW

ELBERTA HIGH SCHOOL

BCBOE

SCALE: 1"=20'
DATE: OCT, 2023
DRAWN BY: BAT
SHEET: 1 OF 1

UTILITY PLAN NOTES

1. THE CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER'S CONSTRUCTION SURVEILLANCE REPRESENTATIVE AND LOCAL JURISDICTIONAL INSPECTOR 48 HOURS BEFORE THE BEGINNING OF EACH PHASE OF CONSTRUCTION.

2. ALL WORK SHALL COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL CODES, AND ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER/DEVELOPER.

3. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER OF ANY DISCREPANCIES OR ERRORS HE DISCOVERS IN THE PLAN.

4. DEVIATION FROM THESE PLANS AND NOTES WITHOUT THE PRIOR CONSENT OF THE OWNER OR HIS REPRESENTATIVE OR THE ENGINEER MAY BE CAUSE FOR THE WORK TO BE UNACCEPTABLE.

5. THE CONTRACTOR IS REQUIRED TO USE THE ONE-CALL CENTER TELEPHONE NUMBER FOR THE PURPOSE OF COORDINATING THE MARKING OF UNDERGROUND UTILITIES.

6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND TO TAKE WHATEVER STEPS ARE NECESSARY TO PROVIDE FOR THEIR PROTECTION. THE ENGINEER HAS DILIGENTLY ATTEMPTED TO LOCATE AND INDICATE ALL EXISTING FACILITIES ON THESE PLANS, HOWEVER, THIS INFORMATION IS SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS OF UTILITIES SHOWN OR NOT SHOWN. CONTRACTOR TO CONTACT THE UTILITY COMPANIES FOR EXACT LOCATION OF THEIR UTILITIES PRIOR TO STARTING CONSTRUCTION. ANY AND ALL DAMAGE MADE TO UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND REPLACE.

7. THE CONTRACTOR SHALL COORDINATE LOCATION AND INSTALLATION OF ALL UNDERGROUND UTILITIES AND APPURTENANCES TO MINIMIZE DISTURBING CURBING, PAVING AND COMPACTED SUB-GRADE.

8. UTILITY COORDINATION SHALL BE INCLUDED IN THE PROJECT SCHEDULE AND IT IS THE EXPLICIT RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT THE PROJECT SCHEDULE INCLUDES THE NECESSARY RELOCATION. THE CONTRACTOR SHOULD SEEK ASSISTANCE FROM ALL UTILITY COMPANIES TO LOCATE AND PROTECT THEIR FACILITIES.

9. THE CONTRACTORS SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE BY HIS EQUIPMENT TO EXISTING UTILITIES, CROSS-DRAIN PIPES AND HEADWALLS.

10. THE CONTRACTOR SHALL EXPLORE AHEAD 200 FEET SO ADJUSTMENTS CAN BE MADE IN THE ALIGNMENT OF THE PIPE IN CASE OF CONFLICTS WITH EXISTING STRUCTURES, UTILITIES AND PIPING.

11. ALL EXCESS MATERIAL FROM EXCAVATION SHALL BE DISPOSED OF BY THE CONTRACTOR. COST FOR THIS WORK SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING PIPE FROM FLOATING. IF PIPE FLOATS DURING CONSTRUCTION, THE CONTRACTOR SHALL RELAY PIPE TO GRADE AT HIS EXPENSE.

13. ALL PROPERTY LINE MARKERS (IRON PINS, CONCRETE MONUMENTS, ETC.) DESTROYED DURING CONSTRUCTION SHALL BE REPLACED IN KIND BY THE CONTRACTOR. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF ALABAMA TO RESET PROPERTY MARKERS. THE COST FOR THIS WORK SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

14. THE CONTRACTOR SHALL MEET OR EXCEED ALL REQUIREMENTS OF EACH UTILITIES' CONSTRUCTION SPECIFICATIONS.

GRADING AND DRAINAGE NOTES

1. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES AROUND WORK AND SHALL PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION.

2. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER AND DETENTION FACILITIES ARE CONSTRUCTED.

3. ALL SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING.

4. ALL SLOPES SHALL BE STABILIZED AS SOON AS POSSIBLE.

5. COMPACTION OF THE BACKFILL OF ALL TRENCHES SHALL BE COMPACTED TO THE DENSITY OF 95% OF THEORETICAL MAXIMUM DRY DENSITY (ATM D698). BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS OR OTHER FOREIGN DEBRIS AND SHALL BE PLACED AT OR NEAR OPTIMUM MOISTURE. CORRECTION OF ANY TRENCH SETTLEMENT WITHIN A YEAR FROM THE DATE OF APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

6. ALL FILL MATERIAL AND COMPACTION REQUIREMENTS SHALL MEET THE GEOTECHNICAL REPORT PREPARED BY GEOCON ENGINEERING & MATERIALS TESTING.

7. MAXIMUM SLOPE OF EMBANKMENT SHALL BE 3.0 FEET HORIZONTAL TO 1.0 FOOT VERTICAL, OR MATCH EXISTING.

8. PROPOSED CONTOUR INTERVALS ARE AS LABELED. ALL PROPOSED CONTOURS ARE FINISHED GRADES.

9. THE CONTRACTOR WILL INSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED OR RE-GRADING AS REQUIRED BY THE ENGINEER, EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS IN AND HAVING SPECIFIC PAY ITEMS IN THE DETAILED ESTIMATE. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.

10. EXCESS EARTH CUT MATERIAL, IF ANY, SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE APPROVED TO BE PLACED ON SITE BY THE OWNER.

11. ALL STORM DRAINAGE PIPE SHALL BE LAID ON SMOOTH CONTINUOUS GRADES WITH NO VISIBLE BENDS AT JOINTS.

12. ALL STORM DRAINAGE INLET STRUCTURES SHALL HAVE METAL FRAME AND COVER FOR ACCESS.

13. THE CONTRACTOR SHALL PROVIDE ANY EXCAVATION AND MATERIAL SAMPLES NECESSARY TO CONDUCT REQUIRED SOIL TESTS. ALL ARRANGEMENTS AND SCHEDULING FOR THE TESTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

14. SOILS TESTING AND ON-SITE INSPECTION SHALL BE PERFORMED BY AN INDEPENDENT GEOTECHNICAL ENGINEER. THE SOILS ENGINEER SHALL PROVIDE COPIES OF TEST REPORTS TO THE CONTRACTOR, THE OWNER AND THE OWNER'S REPRESENTATIVE AND SHALL PROMPTLY NOTIFY THE OWNER, HIS REPRESENTATIVE AND THE CONTRACTOR SHOULD WORK PERFORMED BY THE CONTRACTOR FAIL TO MEET THESE SPECIFICATIONS.

15. CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM LIMITS OF ROADWAY CONSTRUCTION AS DIRECTED BY AN INDEPENDENT GEOTECHNICAL-TECHNICAL ENGINEER. UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE DIRECTED.

SOIL EROSION AND SEDIMENT CONTROL NOTES

1. ALL DRAINAGE SWALES MUST BE GRASSED AND RIP-RAP MUST BE PLACED AS SHOWN TO CONTROL EROSION.

2. SILT FENCE MUST MEET THE REQUIREMENTS OF LOCAL JURISDICTIONAL AGENCY, SAID REQUIREMENTS AS SHOWN BY THESE PLANS.

3. DISTURBED AREAS SHALL BE VEGETATED AFTER CONSTRUCTION. USE TEMPORARY SEASONAL SEEDING AND MULCHING ON GOING AS PER ALDOT STANDARD SPEC. SECTIONS 652 AND 656 RESPECTIVELY AND USE CENTIPEDE SOD FOR PERMANENT GRASSING AS PER ALDOT STANDARD SPEC. SECTION 654.

4. ADDITIONAL EROSION CONTROL MEASURES OR SILT BARRIERS TO BE PLACED AS SHOWN AND/OR DIRECTED BY THE PROJECT ENGINEER AND/OR LOCAL JURISDICTIONAL INSPECTOR.

5. WHEN ANY CONSTRUCTION BORDERS A DRAINAGE COURSE:

A. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY BUILDING OR OTHER EXCAVATION SPOIL DIRT, CONSTRUCTION TRASH OR DEBRIS, ETC., FROM THE DRAINAGE AREA SHOWN HEREON IN AN EXPEDITIOUS MANNER AS CONSTRUCTION PROGRESSES.

B. THE CONTRACTOR HEREBY AGREES TO STOP ALL WORK AND RESTORE THESE AREAS IMMEDIATELY UPON NOTIFICATION BY THE LOCAL JURISDICTIONAL INSPECTOR AND/OR PROFESSIONAL ENGINEER.

6. FOR ALL CONSTRUCTION ALONG AND/OR ACROSS WATERWAYS, BANK PROTECTION AND STABILIZATION SHALL BE REQUIRED AS PER LOCAL JURISDICTIONAL EROSION LAWS,

7. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION AND SHALL BE MAINTAINED IN PROPER WORKING ORDER UNTIL ALL DISTURBED AREAS ARE STABILIZED. CONSTRUCTION ENTRANCE PADS SHALL BE INSTALLED BY THE CONTRACTOR AT CONSTRUCTION ACCESS POINTS PRIOR TO LAND DISTURBANCE.

8. A COPY OF THE APPROVED LAND DISTURBANCE PLAN SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBING ACTIVITY IS IN PROGRESS.

9. CONSTRUCT SILT FENCE ALONG THE DOWNSTREAM SIDE OF ALL PROPOSED FILL CONSTRUCTION.

10. EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.

11. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL CLEAN OUT ALL SEDIMENT PONDS WHEN REQUIRED BY THE ENGINEER OR LOCAL JURISDICTIONAL INSPECTOR. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

12. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS 1/3 OF THE HEIGHT OF THE SILT FENCE UTILIZED FOR EROSION CONTROL. IN THE DETENTION POND, SILT SHALL BE REMOVED WHEN A DEPTH OF 18" HAS ACCUMULATED AT THE WEIR.

13. ALL EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION IN ACCORDANCE WITH EASEMENT PLATS PRIOR ACCEPTANCE.

14. SILT BARRIERS TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.

15. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES AROUND THE WORK AND SHALL PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION.

16. TREE PROTECTION AND EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

17. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER AND DETENTION FACILITIES ARE CONSTRUCTED.

18. ALL SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING.

19. ALL DISTURBED AREAS TO BE GRASSED AS SOON AS POSSIBLE WITH SEASONAL TEMPORARY SEEDING AND MULCHING AS PER ALDOT STANDARD SPEC. SECTIONS 652 AND 656.

20. ALL SLOPES SHALL BE STABILIZED AS SOON AS POSSIBLE.

21. GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH GRASS IN KIND. IN AREAS OF INDECIPHERABLE GRASSES USE CENTIPEDE SOD FOR PERMANENT GRASSING AS PER ALDOT STANDARD SPEC. SECTION 654.

22. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM REQUIRED MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL DEVICES TO ENSURE THEIR FUNCTION AT ALL TIMES.

23. IF HEAVY RAINFALL IS PREDICTED, CONTRACTOR SHALL INSPECT EROSION CONTROL ITEMS WITH ENGINEER PRIOR TO EVENT, IF AT ALL POSSIBLE. ANY IMPROVEMENTS, CLEANING, OR ADJUSTMENTS THAT ARE REQUIRED PRIOR TO EVENT SHALL BE GIVEN FULL URGENCY AS MUCH IS POSSIBLE.

SITE NOTES

1. ALL CONCRETE SHALL BE CLASS A, 4,000 PSI AT 28 DAYS COMPRESSIVE STRENGTH WITH A MAXIMUM SLUMP OF 4" UNLESS NOTED OTHERWISE. ALL EXPOSED CONCRETE TO HAVE A FINE BROOM FINISH.

2. ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER OR TENANT.

3. ALL DIMENSIONS ARE FACE OF CURB OR AS NOTED.

4. NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL METHODS AS MAY BE NECESSARY PER MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART VI, SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. THE PROJECT WILL REQUIRE ROAD CLOSURE/ TRAFFIC CONTROL SCHEME.

5. SPECIAL CARE SHALL BE GIVEN WHILE WORKING NEAR PRIVATE RESIDENCES. ANY DAMAGES TO OR ADJACENT TO PRIVATE PROPERTY SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.

6. IF ANY CONFLICTS EXIST BETWEEN APPLICABLE ACCESSIBILITY CODES, STANDARDS AND GUIDELINES THE CODES, STANDARDS, AND GUIDELINES PROVIDING THE GREATER DEGREE OF ACCESSIBILITY TAKE PRECEDENCE AS PER HUD MAP CHAPTER 5 GUIDELINES.

7. ALL ACCESSIBILITY CODES, STANDARDS AND GUIDELINES USED FOR THE PROJECT DESIGN MUST BE INCLUDED WITHIN THE CODE SUMMARY.

8. CONTRACTOR TO FIELD VERIFY ALL EXIST IRRIGATION LINES, HEADS, WIRES, & ETC. TO BE REMOVED DURING UNCLASSIFIED EXCAVATION.

9. CONTRACTOR TO MAINTAIN DUMPSTER & KITCHEN DELIVERY ACCESS DURING CONSTRUCTION.

10. THE CONTRACTOR SHALL PROVIDE FIRE SAFETY PRECAUTIONS FOR ALL STRUCTURES & ALL OCCUPANCIES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION & DEMOLITION.

UTILITY PROVIDERS

POWER: RIVIERA UTILITES
WATER: CITY OF FAIRHOPE
SEWER: CITY OF FAIRHOPE
GAS: CITY OF FAIRHOPE
TEL./FIBER: AT&T

ON-SITE CONTACT: SAWGRASS CONSULTING LLC.

(251) 544-7900 (OFFICE)
(251) 544-7918 (FAX)

ADDITIONS
TO
ELBERTA HIGH SCHOOL
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BALDWIN COUNTY BOARD OF EDUCATION
BAY MINETTE, ALABAMA

McKEE and ASSOCIATES
ARCHITECTS, INC.
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Sawgrass
ENGINEERING · SURVEYING · CONSTRUCTION MANAGEMENT
30073 Sgt. E. L. Travis Thomas Drive, Spanish Fort, AL 36527
Phone: (251) 544-7900

STATE OF ALABAMA
LICENSED
No. 31242
PROFESSIONAL
10-4-23
ENGINEER
William H. Robertson

SHEET TITLE : PROJECT NOTES

MCKEE JOB # : 23.192

DRAWN BY : BAT/MT

DATE: 10-04-23

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : C-1.0

- \\sgprimary\shares\1-clients\23-120 '23 additions to elberta hs mckee\CIVIL ENGINEERING\PRODUCTION DWGS\23-120 NOTES-DETAILS.dwg
- Wednesday, October 4, 2023 3:29:19 PM

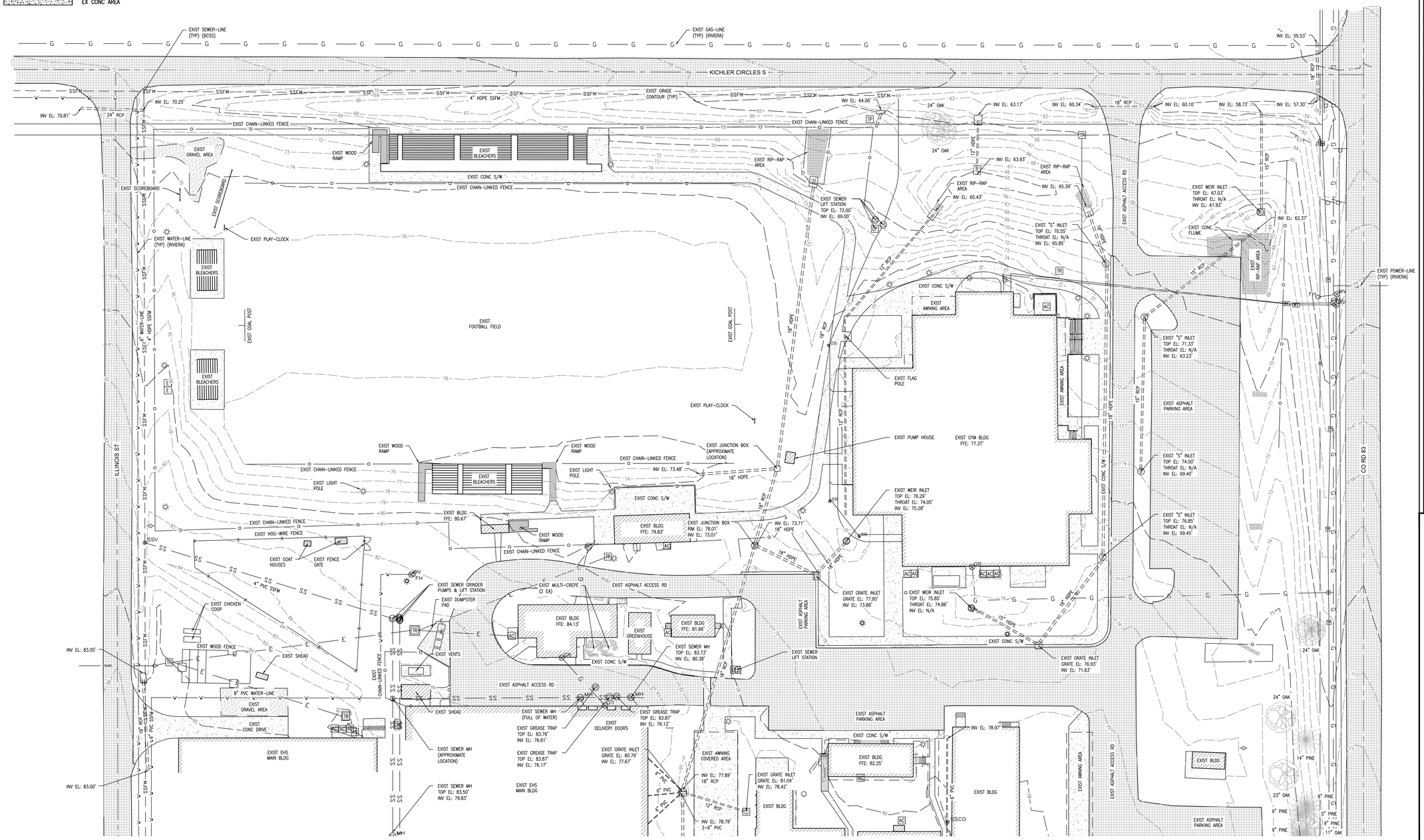
LEGEND

- ROW-PROP LINE
- EX WATER-LINE
- EX WATER VALVE
- EX FIRE HYDRANT
- EX WATER METER
- EX SSFM
- EX SEWER VALVE
- EX SEWER MH
- EX LIFT STATION
- EX GRINDER PUMP
- EX DRAINAGE PIPE
- EX DRAINAGE MH
- EX GRATE INLET
- EX FENCE
- EX UG POWER-LINE
- EX OH POWER-LINE
- EX ELEC BOX
- EX TRANSFORMER
- EX AC UNIT
- EX POWER POLE
- EX LIGHT POLE
- EX GAS-LINE
- EX GAS REGULATOR
- EX BLDG AREA
- EX ASPHALT AREA
- EX CONC AREA

GRAPHIC SCALE

0 15 30 60

1 inch = 30 feet



ADDITIONS TO ELBERTA HIGH SCHOOL FOR THE BALDWIN COUNTY BOARD OF EDUCATION

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

sawgrass
ENGINEERING · SURVEYING · CONSTRUCTION MANAGEMENT
30573 Syl. E. L Boone Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7060

ALABAMA LICENSED No. 31242 PROFESSIONAL ENGINEER Thomas H. Roberts, Jr.
10-4-23

SHEET TITLE : EXIST COND PLAN

MCKEE JOB # : 23.192

DRAWN BY : BAT/MT

DATE: 10-04-23

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : C-2.0

- \\sgprimary\shares\1-clients\23-120 '23 additions to elberta hs mckee\CIVIL ENGINEERING\PRODUCTION DWGS\23-120 EXIST-DEMO PLAN.dwg
- Wednesday, October 4, 2023 3:29:33 PM

LEGEND

- ROW-PROP LINE
- EX WATER-LINE
- EX WATER VALVE
- EX FIRE HYDRANT
- EX WATER METER
- EX SSFM
- EX SEWER VALVE
- EX SEWER MH
- EX LIFT STATION
- EX GRINDER PUMP
- EX DRAINAGE PIPE
- EX DRAINAGE MH
- EX GRATE INLET
- EX FENCE
- EX UG POWER-LINE
- EX OH POWER-LINE
- EX ELEC BOX
- EX TRANSFORMER
- EX AC UNIT
- EX POWER POLE
- EX LIGHT POLE
- EX GAS-LINE
- EX GAS REGULATOR
- DEMO ITEM
- DEMO AREA
- EX BLDG AREA
- EX ASPHALT AREA
- EX CONC AREA

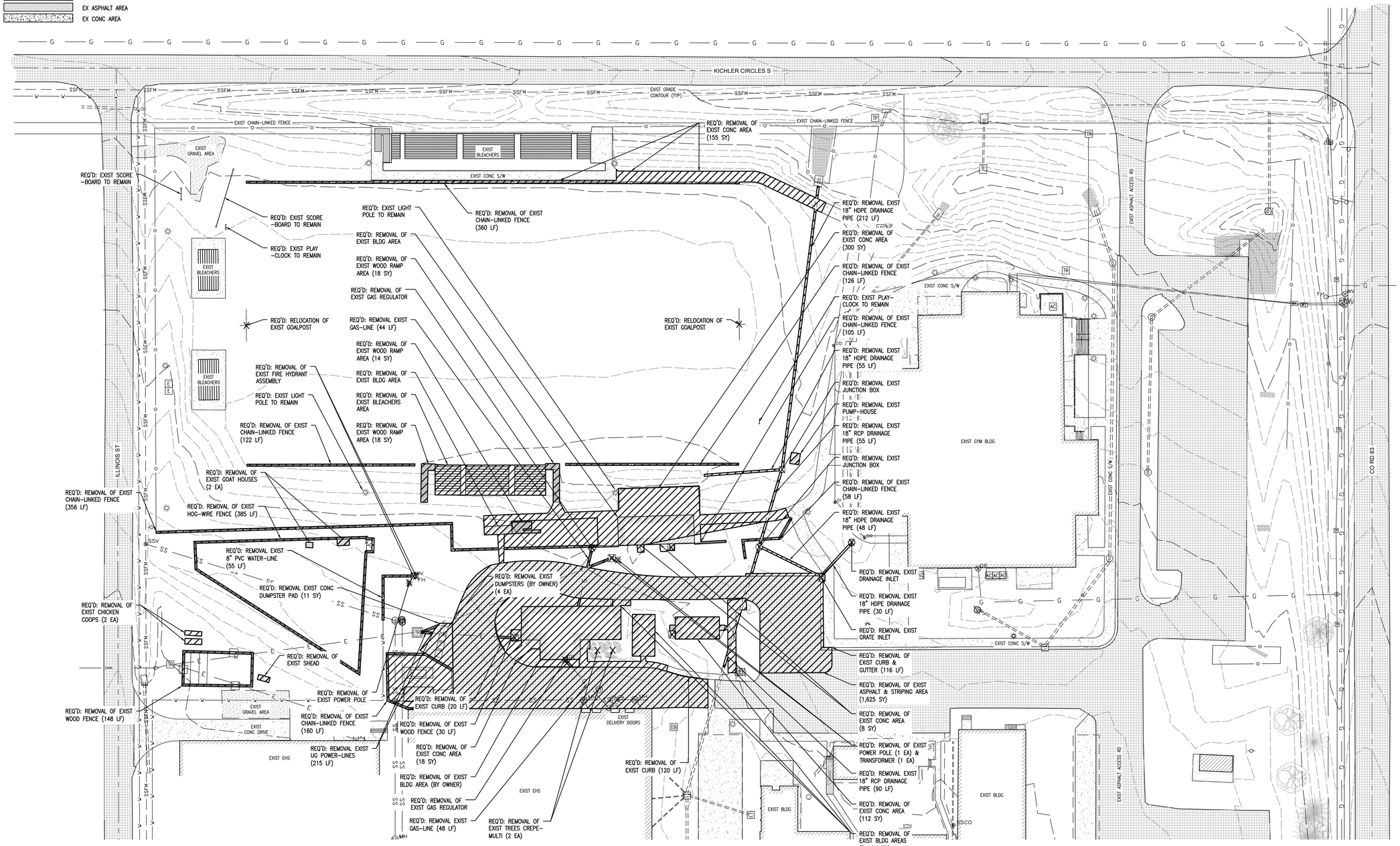
NOTES

1. CONTRACTOR TO FIELD VERIFY ALL EXIST IRRIGATION LINES, HEADS, WIRES, & ETC. TO BE REMOVED DURING UNCLASSIFIED EXCAVATION.
2. CONTRACTOR TO MAINTAIN DUMPSTER & KITCHEN DELIVERY ACCESS DURING CONSTRUCTION.

GRAPHIC SCALE

0 15 30 60

1 inch = 30 feet



ADDITIONS TO ELBERTA HIGH SCHOOL FOR THE BALDWIN COUNTY BOARD OF EDUCATION

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30573 Syl. E. L "Bobo" Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7060

ALBERT L. CENBOY JR. No. 31242 PROFESSIONAL ENGINEER 10-4-23 James H. Robertson

SHEET TITLE : EXIST DEMO PLAN

MCKEE JOB # : 23.192

DRAWN BY : BAT/MT

DATE: 10-04-23

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : C-2.1

- \\sgprimary\shares\1-clients\23-120 '23 additions to elberta hs mckee\CIVIL ENGINEERING\PRODUCTION DWGS\23-120 EXIST-DEMO PLAN.dwg
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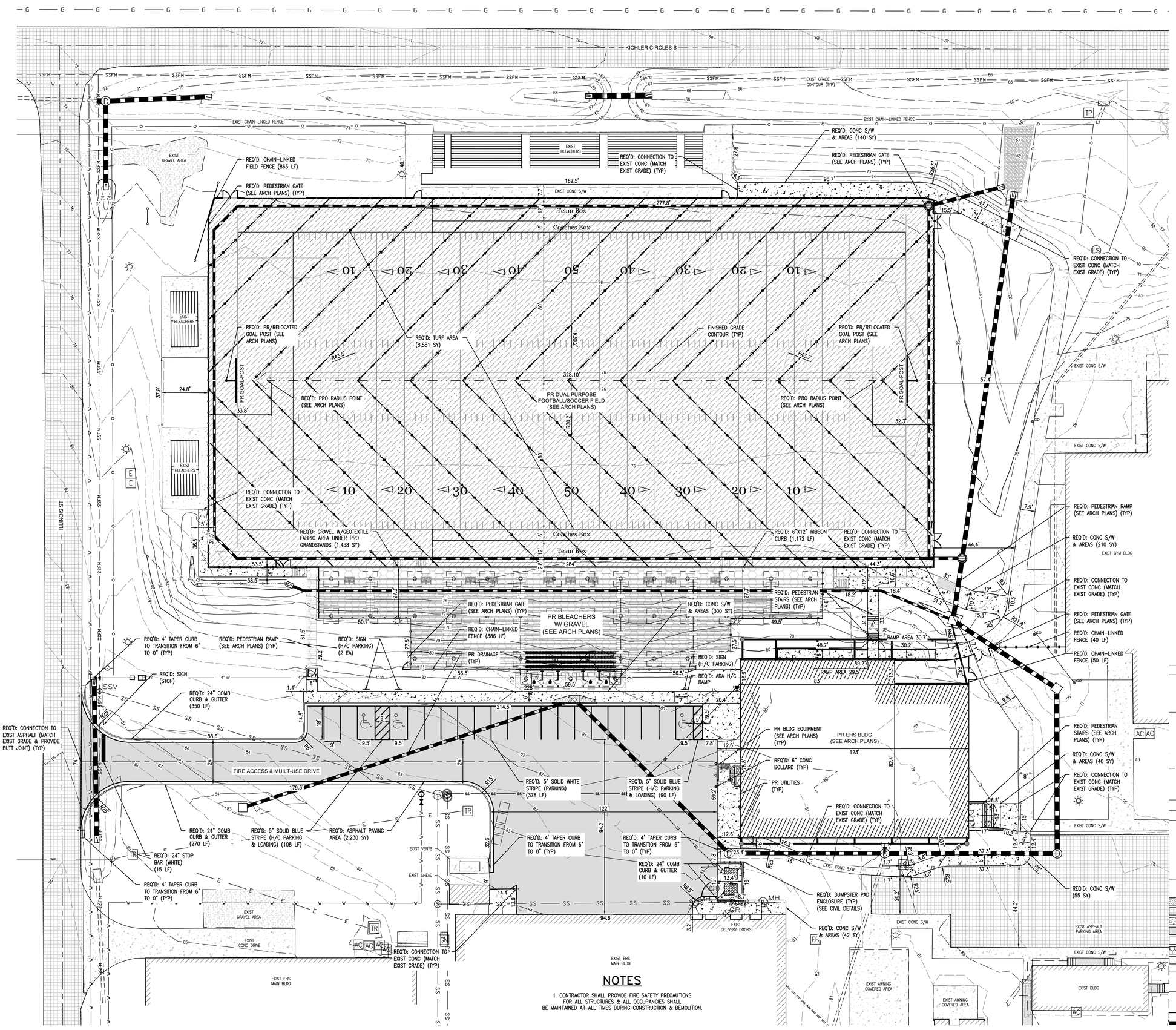

GRAPHIC SCALE

0 10 20 40

1 inch = 20 feet

NOTES

1. CONTRACTOR SHALL PROVIDE FIRE SAFETY PRECAUTIONS FOR ALL STRUCTURES & ALL OCCUPANCIES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION & DEMOLITION.

LEGEND

- ROW-PROP LINE
- EX WATER-LINE
- EX WATER VALVE
- EX FIRE HYDRANT
- EX WATER METER
- EX SSFM
- EX SEWER VALVE
- EX SEWER MH
- EX LIFT STATION
- EX GRINDER PUMP
- EX GREASE TRAP
- EX DRAINAGE PIPE
- EX DRAINAGE MH
- EX GRATE INLET
- EX FENCE
- EX UG POWER-LINE
- EX OH POWER-LINE
- EX ELEC BOX
- EX TRANSFORMER
- EX AC UNIT
- EX POWER POLE
- EX LIGHT POLE
- EX GAS-LINE
- EX GAS REGULATOR
- EX BLDG AREA
- EX ASPHALT AREA
- EX CONC AREA
- PR ASPHALT AREA
- PR CONC AREA
- PR GRAVEL AREA
- PR TURF AREA
- PR 4" WATER-LINE
- PR FIRE HYDRANT
- PR 4" SSFM
- PR SEWER CLEAN-OUT
- PR FENCE
- PR DRAINAGE PIPE

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30073 Spl. E. L "Boots" Thomas Drive, Superior Fort, AL 36027 Phone (251) 544-7060

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 31242 10-4-23 James H. Robertson

SHEET TITLE : GEOMERTIC PLAN

MCKEE JOB # : 23.192

DRAWN BY : BAT/MT

DATE: 10-04-23

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : C-3.0

- \\sgprimary\shares\1-clients\23-120 '23 additions to elberta hs mckee\CIVIL ENGINEERING\PRODUCTION DWGS\23-120 GEO-UTIL PLAN.dwg
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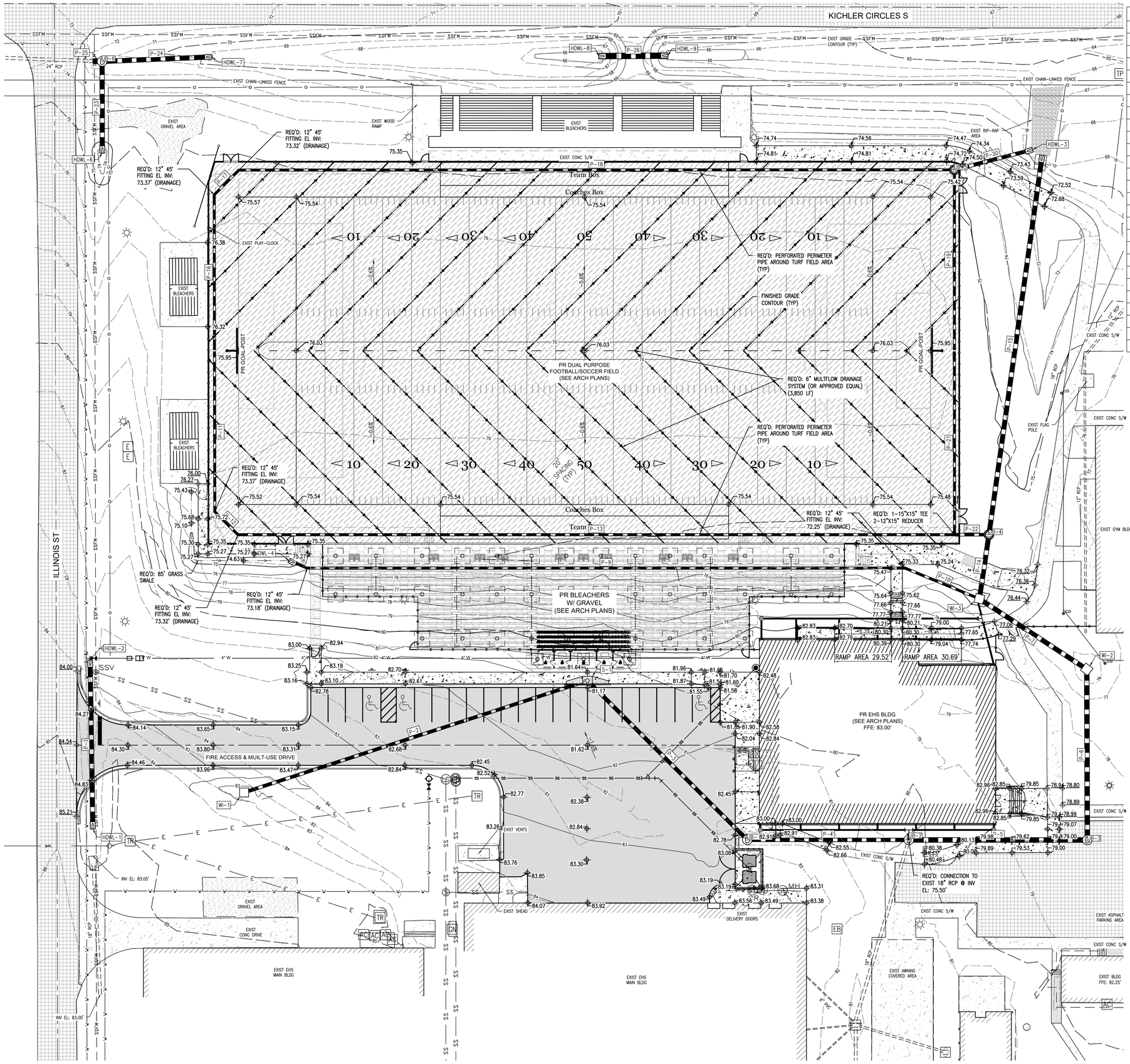

PIPE SCHEDULE					
PIPE NAME	SIZE	SLOPE	LENGTH	INV. IN	INV. OUT
P-1	22"x14" RCAP	0.75%	85 L.F.	83.00	82.34
P-2	15" RCP	1.00%	184 L.F.	79.07	77.19
P-3	18" RCP	1.00%	112 L.F.	76.94	75.77
P-4	18" RCP	1.00%	81 L.F.	75.77	74.93
P-5	24" RCP	1.00%	89 L.F.	74.43	73.50
P-6	24" RCP	1.00%	85 L.F.	73.50	72.61
P-7	24" HDPE	1.01%	63 L.F.	72.61	71.94
P-8	12" HDPE	10.51%	9 L.F.	74.25	73.18
P-9	12" HDPE	0.30%	312 L.F.	73.18	72.25
P-10	12" HDPE	0.30%	40 L.F.	72.25	72.12
P-11	12" PERFORATED HDPE	0.30%	84 L.F.	73.62	73.37
P-12	12" PERFORATED HDPE	0.30%	17 L.F.	73.37	73.32
P-13	12" PERFORATED HDPE	0.30%	373 L.F.	73.32	72.20
P-14	24" HDPE	1.00%	31 L.F.	70.31	69.97
P-15	24" HDPE	1.00%	198 L.F.	69.97	67.98
P-16	12" PERFORATED HDPE	0.31%	81 L.F.	73.62	73.37
P-17	12" PERFORATED HDPE	0.32%	19 L.F.	73.37	73.32
P-18	12" PERFORATED HDPE	0.30%	371 L.F.	73.32	72.20
P-19	12" PERFORATED HDPE	0.50%	92 L.F.	72.67	72.20
P-20	18" HDPE	2.02%	39 L.F.	68.83	67.98
P-21	12" PERFORATED HDPE	0.50%	96 L.F.	72.68	72.20
P-22	15" HDPE	0.30%	17 L.F.	72.20	72.15
P-23	22"X14" RCAP	6.81%	44 L.F.	73.50	70.25
P-24	24" RCP	0.98%	54 L.F.	69.56	69.00
P-25	24" RCP	1.07%	3 L.F.	70.25	70.20
P-26	28"X18" RCAP	1.00%	33 L.F.	66.51	66.15

HEADWALL STRUCTURE SCHEDULE	
NAME	INVERT
HDWL-1	83.00 (P-1)
HDWL-2	82.34 (P-1)
HDWL-3	67.98 (P-20)
HDWL-4	74.25 (P-8)
HDWL-5	67.98 (P-15)
HDWL-6	73.50 (P-23)
HDWL-7	69.00 (P-24)
HDWL-8	66.51 (P-26)
HDWL-9	66.15 (P-26)

STRUCTURE SCHEDULE			
NAME	TOP EL	INV IN	INV OUT
JB-1	83.07	75.77 (P-3)	75.77 (P-4)
JB-2	80.98	74.93 (P-4)	74.43 (P-5)
JB-3	78.48	73.50 (P-5)	73.50 (P-6)
JB-4	75.49	72.15 (P-22) 69.97 (P-14)	69.97 (P-15)
JB-5	75.24	72.20 (P-18) 72.20 (P-19)	68.83 (P-20)
JB-6	73.00	70.25 (P-23) 70.20 (P-25)	69.56 (P-24)
S-1	81.57	77.19 (P-2)	76.94 (P-3)
WI-1	82.75		79.07 (P-2)
WI-2	75.65	72.61 (P-6)	72.61 (P-7)
WI-3	74.75	71.94 (P-7) 72.12 (P-10)	70.31 (P-14)

GRAPHIC SCALE

0 10 20 40

1 inch = 20 feet

ADDITIONS TO ELBERTA HIGH SCHOOL FOR THE BALDWIN COUNTY BOARD OF EDUCATION

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Sawgrass
ENGINEERING · SURVEYING · CONSTRUCTION MANAGEMENT
30073 Sgt. E. L. "Brock" Thomas Drive, Spanish Fort, AL 36527
Phone: (251) 544-7060

ALABAMA LICENSED
No. 31242
PROFESSIONAL ENGINEER
10-4-23
Matthew H. Robertson, P.E.

SHEET TITLE : GRADING & DRAINAGE OVERVIEW

MCKEE JOB # : 23.192

DRAWN BY : BAT/MT

DATE: 10-04-23

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : C-4.0

- \\sgprimary\shares\1-clients\23-120 '23 additions to elberta hs mckee\CIVIL ENGINEERING\PRODUCTION DWGS\23-120 G&D-EC PLAN.dwg
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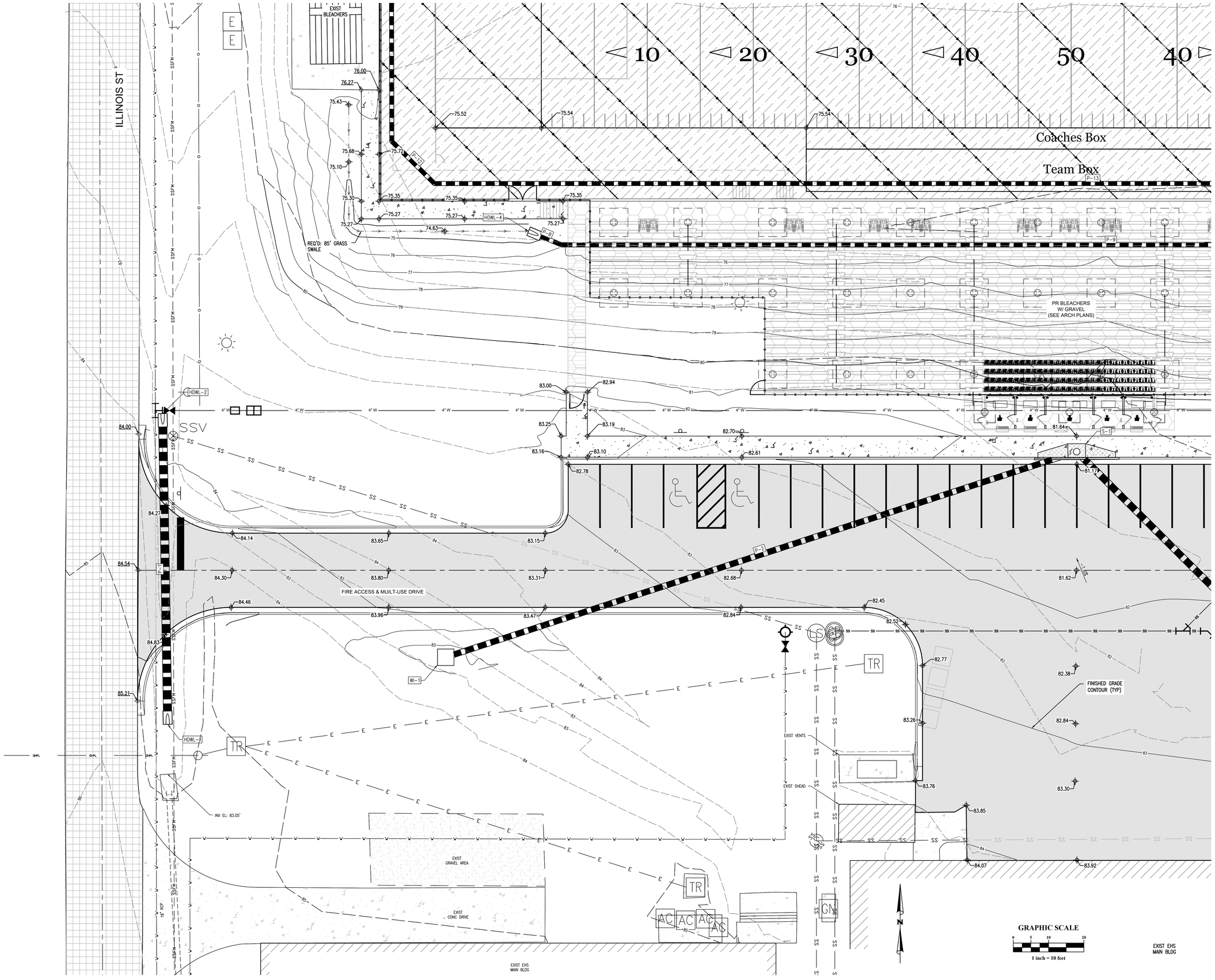

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30673 Syl. E. L. Bosco Thomas Drive, Spanish Fort, AL 36527
Phone: (251) 544-7060

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 31242 10-4-23 William H. Robertson

SHEET TITLE :	GRADING & DRAINAGE PLAN 1
MCKEE JOB # :	23.192
DRAWN BY :	BAT/MT
DATE:	10-04-23
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : C-4.1

- \\sgprimary\shares\1-clients\23-120 '23 additions to elberta hs mckee\CIVIL ENGINEERING\PRODUCTION DWGS\23-120 G&D-EC PLAN.dwg
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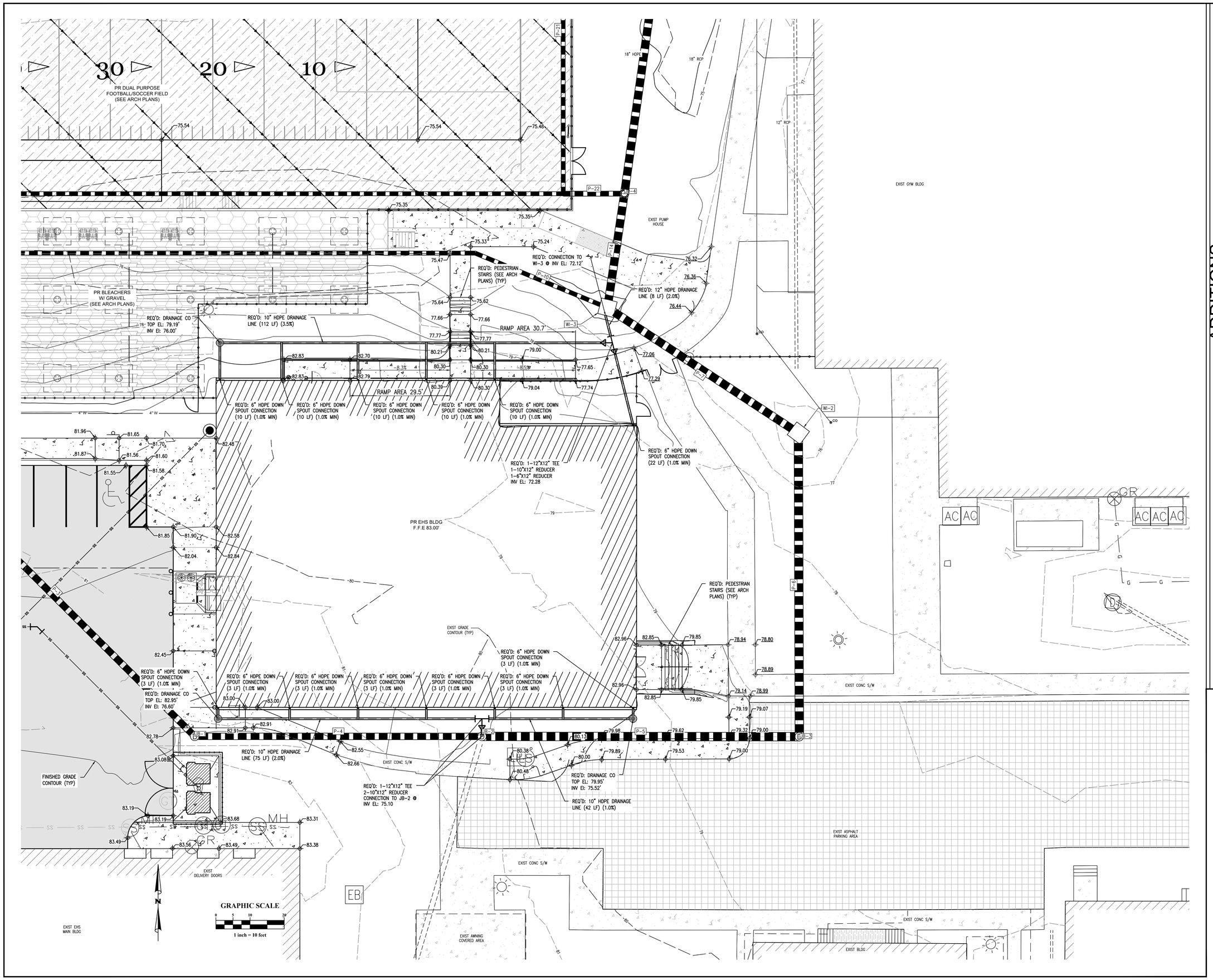

ADDITIONS TO ELBERTA HIGH SCHOOL FOR THE BALDWIN COUNTY BOARD OF EDUCATION

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ARCHITECTS, INC.
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30073 Sgt. E. L. Bryan Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7060

ALABAMA LICENSED No. 31242 PROFESSIONAL ENGINEER 10-4-23 Timothy H. Robertson

SHEET TITLE : GRADING & DRAINAGE PLAN 2

MCKEE JOB # : 23.192

DRAWN BY : BAT/MT

DATE: 10-04-23

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : C-4.2

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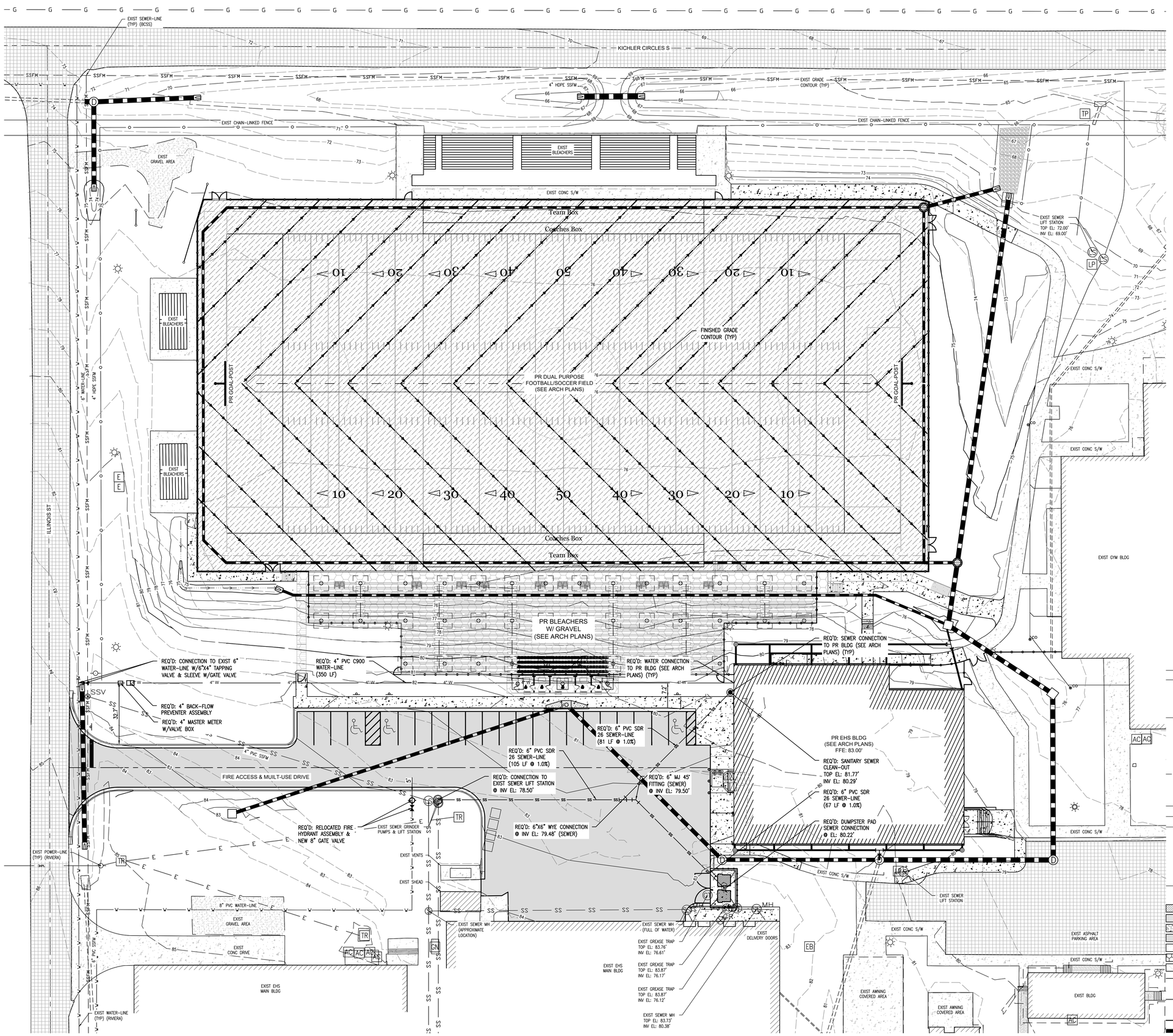

GRAPHIC SCALE

0 10 20 40

1 inch = 20 feet

LEGEND

	ROW-PROP LINE
W W	EX WATER-LINE
WV	EX WATER VALVE
FH	EX FIRE HYDRANT
WM	EX WATER METER
SSFM	EX SSFM
SSV	EX SEWER VALVE
MH	EX SEWER MH
LS	EX LIFT STATION
GP	EX GRINDER PUMP
GT	EX GREASE TRAP
	EX DRAINAGE PIPE
	EX DRAINAGE MH
	EX GRATE INLET
	EX FENCE
E E	EX UG POWER-LINE
OHPL	EX OH POWER-LINE
E	EX ELEC BOX
TR	EX TRANSFORMER
AC	EX AC UNIT
	EX POWER POLE
	EX LIGHT POLE
GAS GAS	EX GAS-LINE
GR	EX GAS REGULATOR
	EX BLDG AREA
	EX ASPHALT AREA
	EX CONC AREA
	PR ASPHALT AREA
	PR CONC AREA
	PR GRAVEL AREA
	PR TURF AREA
4"W	PR 4" WATER-LINE
	PR FIRE HYDRANT
SS SS	PR 4" SSFM
	PR SEWER CLEAN-OUT
	PR FENCE
	PR DRAINAGE PIPE

ADDITIONS TO ELBERTA HIGH SCHOOL FOR THE BALDWIN COUNTY BOARD OF EDUCATION

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McKEE and ASSOCIATES
ARCHITECTS, INC.
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ENGINEERING · SURVEYING · CONSTRUCTION MANAGEMENT
30073 Spt. E. L. Tillotte Thomas Drive, Superior Fort, AL 36027 Phone (251) 544-7060

ALABAMA LICENSED No. 31242 PROFESSIONAL ENGINEER Thomas H. Robertson, II 10-4-23

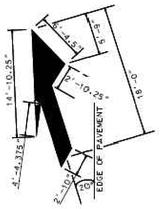
SHEET TITLE :	UTILITY PLAN
MCKEE JOB # :	23.192
DRAWN BY :	BAT/MT
DATE:	10-04-23
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : C-5.0

- \\sgprimary\shares\1-clients\23-120 '23 additions to elberta hs mckee\CIVIL ENGINEERING\PRODUCTION DWGS\23-120 GEO-UTIL PLAN.dwg
- Wednesday, October 4, 2023 3:31:03 PM

* GENERAL NOTES

1. ALL LEGENDS AND MARKINGS SHALL CONFORM TO THE MUTCD.
2. THE AREA SHOWN FOR MARKINGS AND LEGENDS ARE APPROXIMATE AND ARE PROVIDED FOR ESTIMATING AND PAYMENT PURPOSES.
3. THE FIRST TURN LANE LEGEND SHALL BE LOCATED ADJACENT TO THE BEGINNING OF THE SPEED CHANGE LANE LINE.
4. ALL LEGENDS AND MARKINGS SHALL BE WHITE IN COLOR UNLESS OTHERWISE NOTED ON DETAIL.
5. ALL LETTERS OF THE ALPHABET AND NUMERALS SHALL BE CLASSIFIED AS LEGENDS. ALL OTHERS SHALL BE CLASSIFIED AS MARKINGS. UNLESS OTHERWISE NOTED AS "SPECIALTY TRAFFIC CONTROL MARKINGS".



LANE REDUCTION
AREA 42.25 SQ FT

HANDICAP PVMT MARKING SYMBOL
"SPECIALTY TRAFFIC CONTROL MARKINGS"

—SPECIFICATIONS—
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

THIS DRAWING REPRESENTS DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND IS NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. ANYONE MAKING UNAUTHORIZED USE OF THIS DRAWING MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

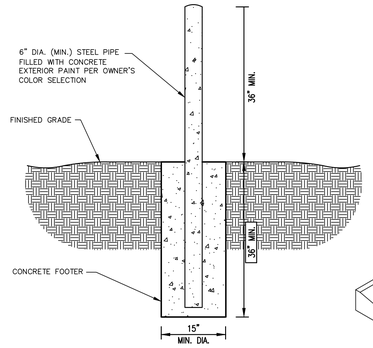
REVISIONS
1. Changed Channelizing Line to Speed Change Lane Line 10-10-97 by KAA.
2. Added Lane Reduction Optional Tar 10-10-97 by KAA. Added Speed and Exit Legend on 06-05-08 by R.E.A.
3. Second portion of original rd-dwing was magnified to show more clarity on 06-29-93 by JPT
4. Added Bifurcate Shields on 10-2095 by JPT.
5. Added "Specialty Traffic Control Markings" Page, added Note #5 & added Bicycle detail on 04-01-96 by LJS

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING
PAVEMENT LEGENDS AND MARKINGS DETAILS

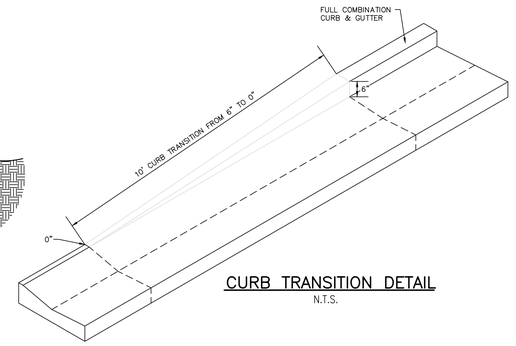
Bureau Trf Engrg LJ.S.
DRAWN BY: ____ DATE DRAWN: 11-06-91
SPECIAL DRAWING NO: TCM-703 (SHEET 2 OF 2)
DWG NO: 1049

HANDICAP DETAILS
N.T.S.



1. BOLLARDS SHALL BE SPACED NOT MORE THAN 4' O.C.
2. BOLLARDS SHALL BE LOCATED NOT LESS THAN 3' FROM THE PROTECTED OBJECT

TYPICAL BOLLARD DETAIL
N.T.S.



CURB TRANSITION DETAIL
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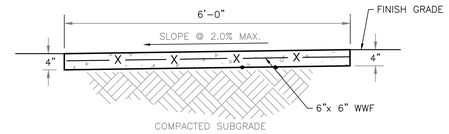
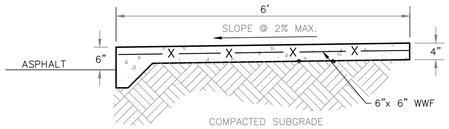
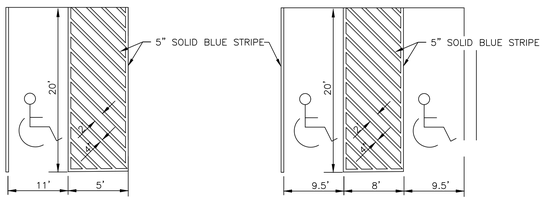


FLUSH
CONCRETE SIDEWALK
N.T.S.

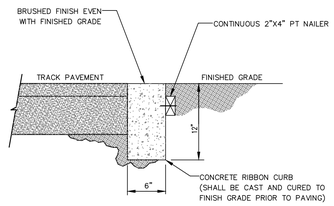


RAISED
CONCRETE SIDEWALK
N.T.S.

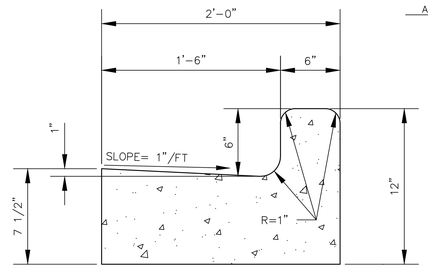


HANDICAPPED PARKING STRIPING DETAIL
N.T.S.

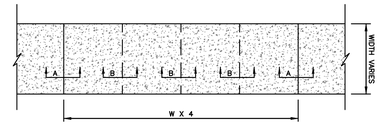
NOTE:
PARKING STRIPING SHALL BE DONE PER THE REQUIREMENTS OF ALDOT ITEM 701-A SOLID WHITE CLASS 1, TYPE A, 5" WIDE STRIPES. MATERIALS AND CONSTRUCTION REQUIREMENTS OF 701-A, SHALL BE ADHERED TO. HANDICAPPED PARKING SPACES SHALL BE STRIPED IN SOLID BLUE, WITH ACCESS AISLES STRIPED AT TWO FEET ON CENTER AND STANDARD HANDICAPPED

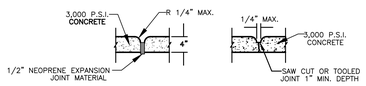


RIBBON/RAVEL CURB DETAIL
N.T.S.



*24" CURB & GUTTER DETAIL
(TYPE "C" MODIFIED)
N.T.S.



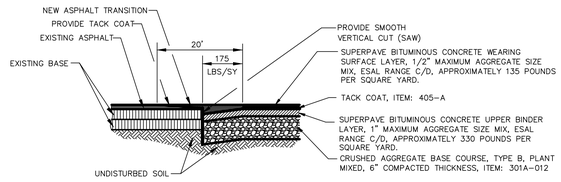


SECTION A
EXPANSION JOINT

SECTION B
CONSTRUCTION CONTROL JOINT

CONCRETE WALK DETAIL
N.T.S.

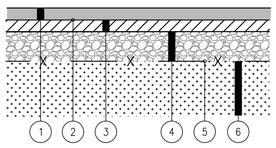
NOTES:
1. PROVIDE 5 FEET BETWEEN CONTROL JOINTS AND 20 FEET BETWEEN EXPANSION JOINTS.
2. ALL EXPANSION JOINTS SHALL BE 1/2" THICK, NEOPRENE MATERIAL.
3. EXPANSION MATERIAL TO BE USED AT ALL PC'S, PT'S AND STRUCTURES.



BUTT JOINT DETAIL
N.T.S.

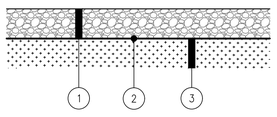
STOP LINE

STRIPING LEGEND DETAILS
N.T.S.



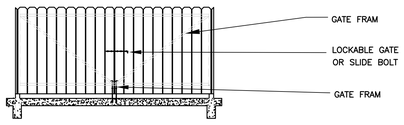
MEDIUM DUTY ASPHALT PAVEMENT SECTION
N.T.S.

1. 1" ALDOT SECTION 424A, BITUMINOUS WEARING SURFACE (110 LB/SY - 1/2" MAX AGGREGATE SIZE MIX)
2. ALDOT SECTION 405 TACK COAT
3. 2" ALDOT SECTION 424A, BITUMINOUS WEARING SURFACE (220 LB/SY - 3/4" MAX AGGREGATE SIZE MIX)
4. 6" ALDOT SECTION 825 CRUSHED AGGREGATE BASE MATERIAL (100% STANDARD DENSITY)
5. SEPARATION FABRIC (TERRA TEX GS OR APPROVED EQUAL)
6. BORROW EXCAVATION/18" COMPACTED STRUCTURAL FILL (TOP 6" COMPACTED TO 100% STANDARD DENSITY) (AS DIRECTED BY ENGINEER)

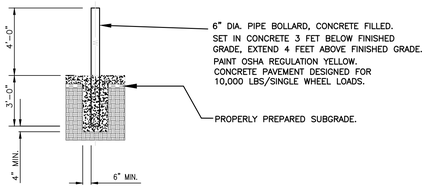


GRAVEL SECTION UNDER GRANDSTANDS
N.T.S.

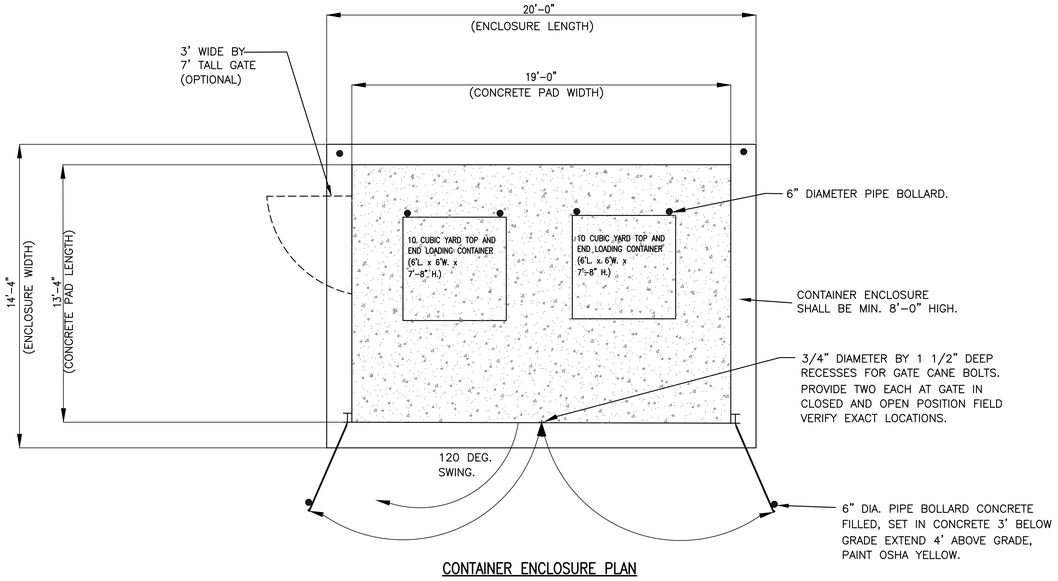
1. #57 CRUSHED LIMESTONE, 4" THICK
2. SEPARATION FABRIC (MARIFI 500X OR APPROVED EQUAL)
3. IN-SITU MATERIAL OR BORROW (A-2-4 MATERIAL OR BETTER) (AS DIRECTED BY GEOTECHNICAL ENGINEER)



FRONT ELEVATION CONTAINER ENCLOSURE
N.T.S.



6" DIAMETER PIPE BOLLARD DETAIL



CONTAINER ENCLOSURE PLAN
N.T.S.

ADDITIONS TO ELBERTA HIGH SCHOOL FOR THE BALDWIN COUNTY BOARD OF EDUCATION
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631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933

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30073 Spl. E. I. "Bobo" Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7060

ALABAMA LICENSED No. 31242 PROFESSIONAL ENGINEER Brian H. Robertson 10-4-23

SHEET TITLE : CIVIL CONSTRUCTION DETAILS

MCKEE JOB # : 23.192

DRAWN BY : BAT/MT

DATE: 10-04-23

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : C-6.0

- \\sgprimary\shares\1-clients\23-120 '23 additions to elberta hs mckee\CIVIL ENGINEERING\PRODUCTION DWGS\23-120 NOTES-DETAILS.dwg
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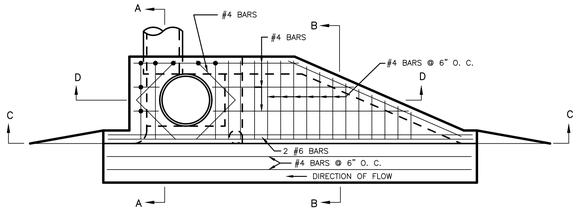
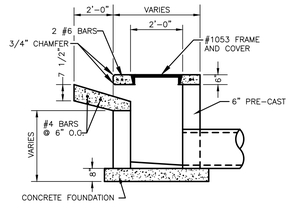
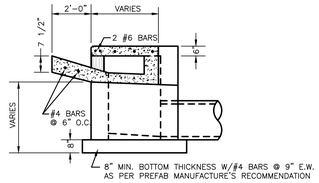


PLAN

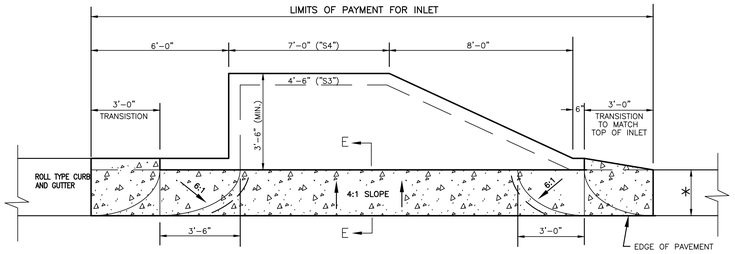
DETAIL OF SINGLE WING – TYPE "S" INLET
NTS



SECTION A–A
NTS



SECTION B–B
NTS



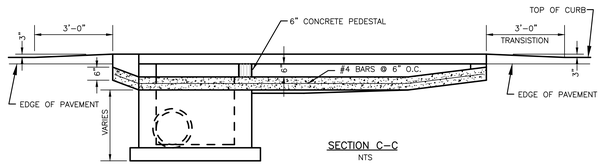
TRANSITION FROM ROLL TYPE CONCRETE CURB AND GUTTER TO TYPE "S" INLET
TYPE "S" INLET

* SEE CURB AND GUTTER DETAIL FOR THIS DIMENSION

THE 3' TRANSITION IS TO BE CONSTRUCTED OF CONCRETE AND TO BE POURED AT THE SAME TIME AS THE CONCRETE SPILLWAY. ANY COST FOR CONSTRUCTING THE 3' TRANSITION IS TO BE INCLUDED IN THE PRICE BID FOR INLETS.

THIS DETAIL AND SECTIONS ARE SUPPLEMENTAL TO REINFORCED CONCRETE SEWER INLET TYPE "S3" AND "S4" OF STATE OF ALABAMA DEPARTMENT OF TRANSPORTATION SPECIAL AND STANDARD DEPARTMENT OF TRANSPORTATION DRAWINGS 2006 EDITION.

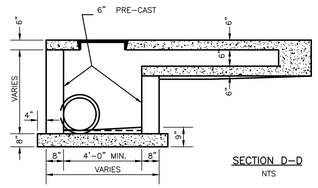
CURB TRANSITION DETAIL
NTS



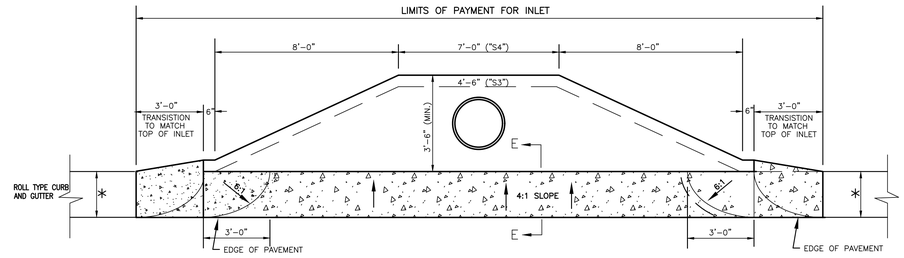
SECTION C–C
NTS

NOTES – TYPE "S" INLETS

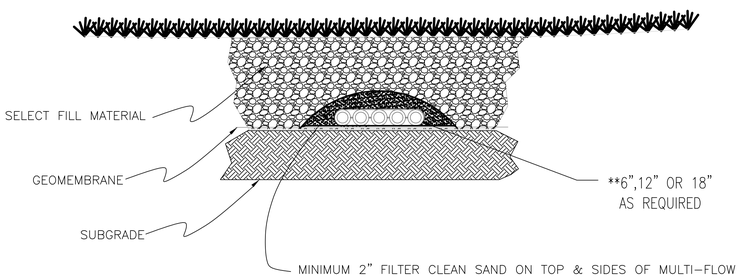
SPECIFICATIONS : CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION 2006 EDITION AND AASHTO
CONCRETE : CONCRETE SHALL BE CLASS – A
REINFORCEMENT : REINFORCEMENT SHALL BE DEFORMED BARS
INLET WINGS : WHERE DIRECTION OF FLOW IS FROM EACH END OF A INLET, SIDE WING OPENINGS (AS SHOWN ON ONE SIDE ONLY ON THIS DRAWING) SHALL BE CONSTRUCTED AT EACH END OF INLET. FOR EACH INLET SO CONSTRUCTED, PAYMENT WILL BE MADE UNDER ITEM "INLETS, TYPE S (TWO WINGS)." WHERE ONE WING ONLY IS CONSTRUCTED, PAYMENT WILL BE MADE UNDER ITEM "INLETS, TYPE S (ONE WING)."
WEEP HOLES : 2" MINIMUM WEEP HOLES SHALL BE CONSTRUCTED IN INLETS AS DIRECTED BY ENGINEER TO FACILITATE SUBGRADE DRAINAGE
LARGE PIPES : TO ACCOMMODATE LARGE PIPES OR FIT OTHER CONDITIONS, IT MAY BE NECESSARY TO INCREASE ONE OR BOTH PLAN DIMENSIONS OF INLET BOX AND COVER SLAB. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRESPONDING INCREASE IN MATERIALS AND OTHER COSTS WHERE CHANGES IN DIMENSIONS ARE REQUIRED



SECTION D–D
NTS



DETAIL OF DOUBLE WING – TYPE "S" INLET
NTS



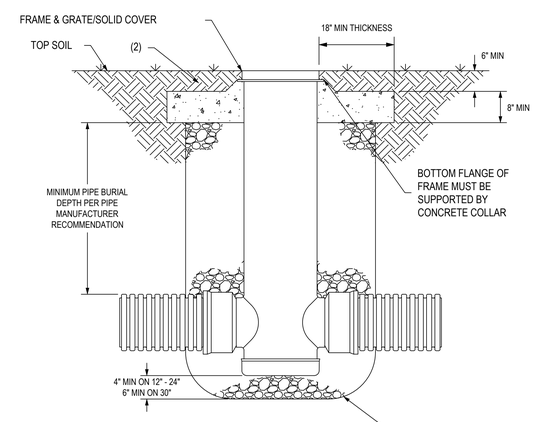
SYNTHETIC TURF INSTALLATION
EXAMPLE INSTALLATION

MULTI-FLOW

MULTI–FLOW UNDERDRAIN DETAIL
N.T.S.

NYLOPLAST TURF TRAFFIC INSTALLATION

12" - 30" DRAIN BASIN



1. GRATES/SOLID COVERS SHALL MEET H-20 LOAD RATING FOR 30" PEDESTRIAN & 12" - 30" STANDARD & SOLID
2. DESIGN SHOULD ACCOUNT FOR ROOT DEPTH TO ALLOW TURF TO GROW AND PREVENT EROSION AROUND GRATE SO THAT HAZARDS DO NOT FORM.

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DRAWN BY	EBC	MATERIAL	
DATE	01-05-09		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-14-16		
DWG SIZE	A	SCALE 1:25	SHEET 1 OF 1

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TITLE
12 IN - 30 IN DRAIN BASIN & INLINE DRAIN
TURF TRAFFIC INSTALLATION

DWG NO. 7001-110-340 REV F

ADDITIONS
TO
ELBERTA HIGH SCHOOL
FOR THE
BALDWIN COUNTY BOARD OF EDUCATION
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Phone: (251) 544-7060

ALABAMA LICENSED
No. 31740
PROFESSIONAL ENGINEER
10-4-23
William H. Robertson, III

SHEET TITLE : CIVIL CONSTRUCTION DETAILS

MCKEE JOB # : 23.192

DRAWN BY : BAT/MT

DATE: 10-04-23

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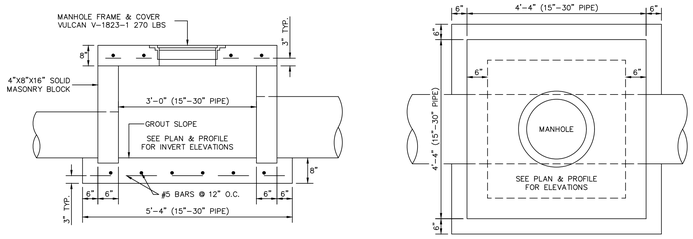


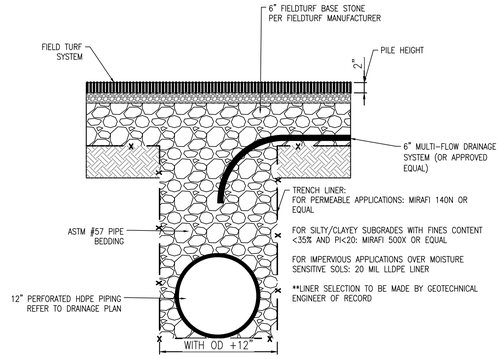
TYPICAL SECTION

PLAN VIEW

JUNCTION BOX DETAIL

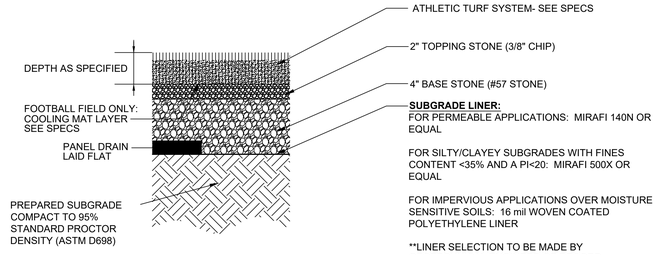
N.T.S.

NOTE: STEPS REQUIRED FOR BOX HEIGHTS 4'-0" AND GREATER.



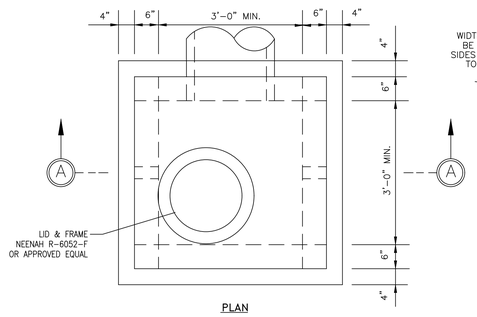
PERIMETER TRENCH SECTION

N.T.S.

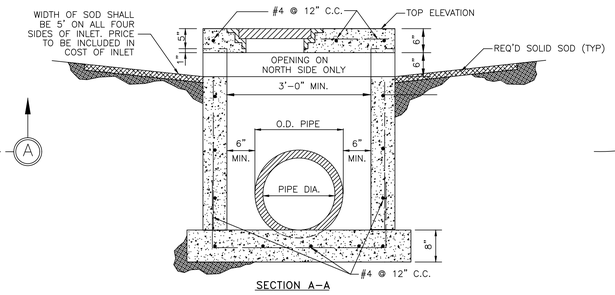


TYPICAL FIELD SECTION

N.T.S.



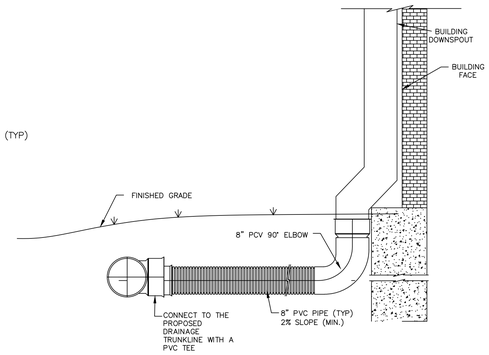
PLAN



SECTION A-A

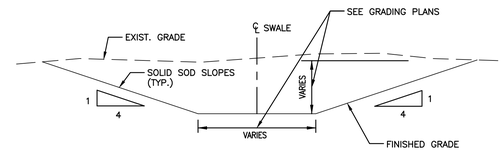
WEIR INLET DETAIL

N.T.S.



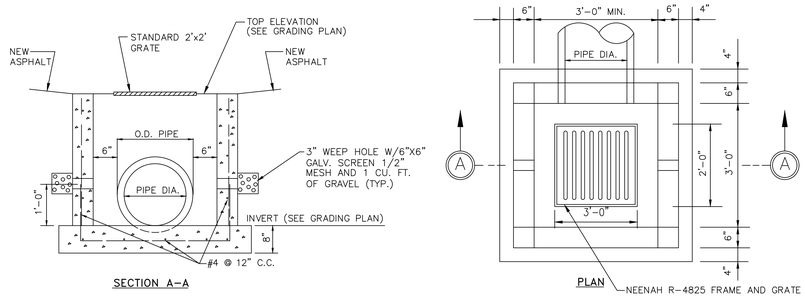
DOWNSPOUT CONNECTION DETAIL

N.T.S.



DRAINAGE SWALE DETAIL

N.T.S.

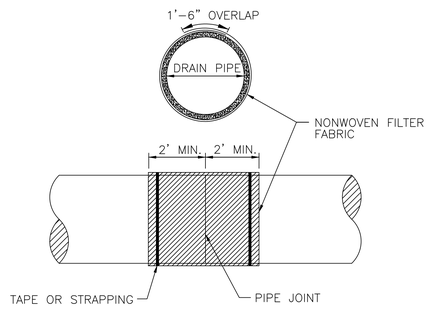


SECTION A-A

PLAN

CONCRETE GRATE INLET DETAIL

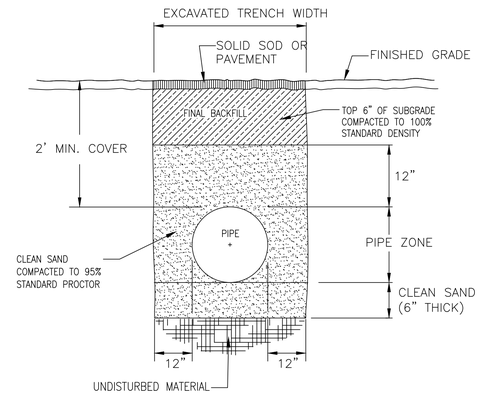
N.T.S.



NOTE:
JOINTS ON ALL STORM DRAIN PIPES SHALL BE PIPE WRAPPED WITH A NON-WOVEN FILTER FABRIC AS SHOWN IN THIS DETAIL.

PIPE JOINT WRAP

N.T.S.



PIPE TRENCH BACKFILL DETAIL

N.T.S.

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ALABAMA LICENSED PROFESSIONAL ENGINEER No. 31242 10-4-23 James H. Robertson

SHEET TITLE :	CIVIL CONSTRUCTION DETAILS
MCKEE JOB # :	23.192
DRAWN BY :	BAT/MT
DATE:	10-04-23
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : C-6.2

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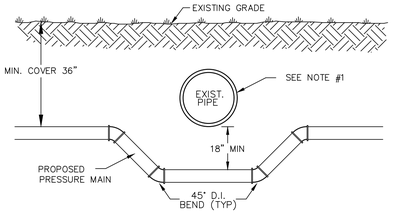
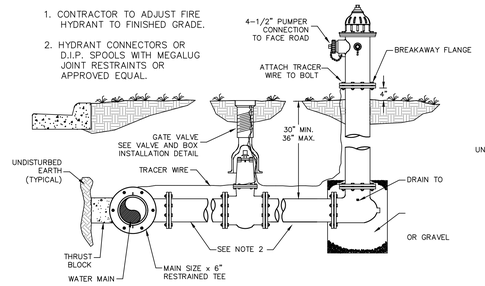
- Wednesday, October 4, 2023 3:31:20 PM

NOTES:
1. IF EXISTING PIPE IS WATER OR SEWER MAIN, REFER TO ENCASEMENT DETAIL FOR ADDITIONAL SPECIFICATIONS.
2. ALL FITTINGS ARE TO BE RESTRAINED JOINT FITTINGS.
3. CONTRACTOR SHALL BE REQUIRED TO ADJUST UTILITIES (WATER MAINS, GAS MAINS, ETC.) AS NECESSARY TO AVOID CONFLICTS.

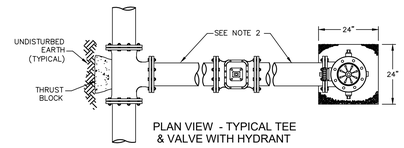


CONFLICT DETAIL
N.T.S.

NOTES:
1. CONTRACTOR TO ADJUST FIRE HYDRANT TO FINISHED GRADE.
2. HYDRANT CONNECTORS OR D.I.P. SPOOLS WITH MEGALUG JOINT RESTRAINTS OR APPROVED EQUAL.



VALVE AND TEE CONNECTION



PLAN VIEW - TYPICAL TEE & VALVE WITH HYDRANT

TYPICAL FIRE HYDRANT INSTALLATION
N.T.S.

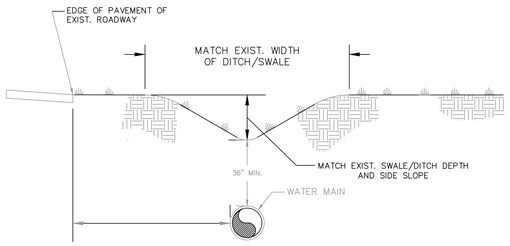
PIPE JOINT RESTRAINT TABULATION - WATER MAIN

EVERY JOINT WITHIN THE LENGTH SPECIFIED BELOW (IN FEET) SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING

PIPE SIZE AND TYPE	HORIZONTAL BENDS				DEAD ENDS	EQUAL TEES See note 3
	90 Deg.	45 Deg.	22.5 Deg.	11.25 Deg.		
3" DI	18	8	4	2	33	1
4" DI	22	9	4	2	39	1
6" DI	31	13	6	3	55	1
8" DI	40	17	8	4	72	1
10" DI	48	20	9	5	86	1
12" DI	56	23	11	5	101	1
16" DI	70	29	14	7	129	1
20" DI	84	35	17	8	156	18
24" DI	96	40	19	9	181	41
4" PVC	28	12	6	3	62	1
6" PVC	39	16	8	4	87	1
8" PVC	50	21	10	5	114	1
10" PVC	60	25	12	6	136	1
12" PVC	70	29	14	7	160	1
16" PVC	88	36	17	9	205	1
20" PVC	105	43	21	10	247	29
24" PVC	120	50	24	12	287	64

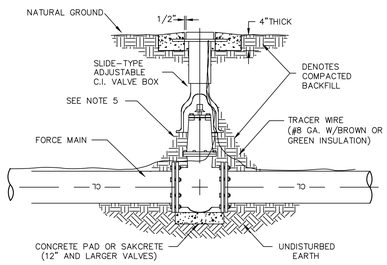
NOTES :
1. Test pressure = 150 psi, soil group = SM, trench type = 3, depth = 2.5', safety factor = 2
2. Restrained lengths for vertical offsets, reducers & unequal size tees must be individually calculated.
3. With equal tees, the distances shown are with a run length OF 70' as an example only. For other lengths and for unequal tees, individual calculations must be made.

PIPE JOINT RESTRAINT TABULATION
N.T.S.

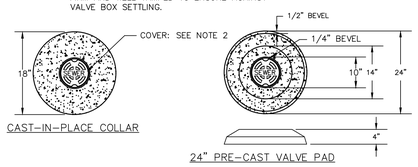


NOTES:
1. ALL DISTURBED DRAINAGE SWALES AND DITCHES SHALL BE RESTORED TO PRE-EXISTING CONDITIONS OR BETTER.
2. DISTURBED SWALES/DITCHES SHALL BE SEEDED AND MULCHED OR, AS NECESSARY TO PREVENT EROSION, SEEDED AND COVERED W/ EROSION CONTROL BLANKET IN ACCORDANCE WITH COUNTY REQUIREMENTS.

TYPICAL WATER MAIN INSTALLATION UNDER SWALE/DITCH IN COUNTY RIGHT-OF-WAY
N.T.S.



NOTES:
1. VALVE BOX AND BOOT SHALL BE CAST IRON.
2. VALVE COVER SHALL BE MARKED "SEWER" OR "WATER"
3. VALVE BOX TOP SHALL BE FLUSH WITH FINISHED GRADE OR 1/2" ABOVE NATURAL GROUND LEVEL.
4. GATE VALVE SHALL BE AWWA C509 WEDGE TYPE RESILIENT SEAT WITH MECHANICAL JOINT ENDS OR APPROVED EQUAL.
5. EARTH UNDER FLANGE OF VALVE BOX & COLLAR TO BE FIRM AND WELL TAMPED TO ENSURE AGAINST VALVE BOX SETTLING.



VALVE & BOX INSTALLATION
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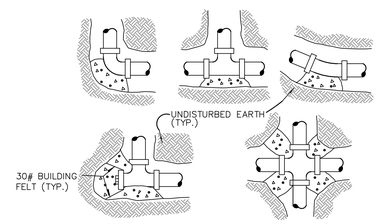
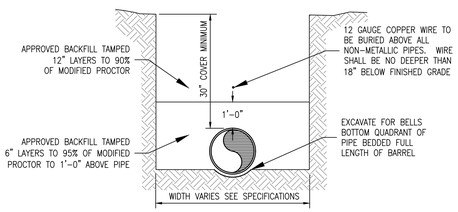


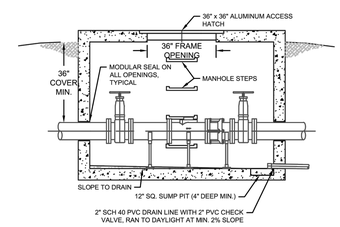
BEARING AREAS				
	TEE OR CAP	90° BEND	45° BEND	22.5° BEND
2"	1.0 S.F.	1.0 S.F.	1.0 S.F.	1.0 S.F.
3"	1.3 S.F.	1.8 S.F.	1.0 S.F.	1.0 S.F.
4"	2.7 S.F.	3.7 S.F.	1.9 S.F.	1.0 S.F.
6"	4.9 S.F.	6.9 S.F.	3.7 S.F.	1.9 S.F.
8"	8.1 S.F.	11.3 S.F.	6.2 S.F.	3.2 S.F.
10"	11.7 S.F.	16.4 S.F.	8.9 S.F.	4.6 S.F.
12"	17.6 S.F.	24.6 S.F.	13.4 S.F.	6.9 S.F.

NOTE: MINIMUM THICKNESS OF THRUST BLOCKS TO BE 12 INCHES WITH AREA AS ABOVE.

THRUST BLOCK DETAILS
N.T.S.



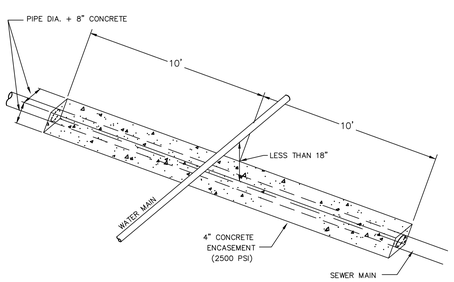
TYPICAL PRESSURE PIPE INSTALLATION DETAIL
N.T.S.



SECTION A-A

SANITARY SEWER LINES (GRAVITY OR PRESSURE) SHALL HAVE 18" OR GREATER VERTICAL CLEARANCE BELOW ANY POTABLE WATER LINE WHEN CROSSING. A MINIMUM OF 7" VERTICAL CLEARANCE IS REQUIRED FOR OTHER UTILITIES. HORIZONTAL CLEARANCE BETWEEN SANITARY SEWER LINE THAT IS PARALLEL TO AND LESS THAN 18" BELOW A POTABLE WATER LINE SHALL BE 10' OR GREATER. A MINIMUM OF 30" IS REQUIRED FOR OTHER UTILITIES.

IF THIS IS NOT POSSIBLE OR PRACTICAL, SEE NOTES BELOW:



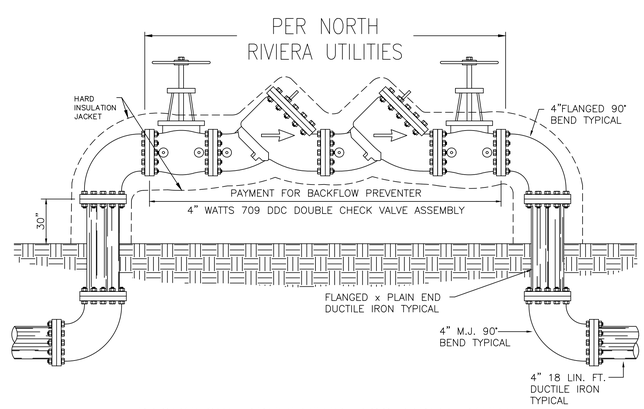
FOR CROSSING: ENCASE AS ABOVE SO THAT THE ENDS OF ENCASEMENT ARE AT LEAST 12' FROM ANY WATER LINE JOINT. WATER LINE JOINT MUST NOT BE CLOSER THAN 5' TO THE POINT OF CROSSING, OR IT MUST ALSO BE ENCASED.

ALTERNATE 1: USE EQUALLY (OR HIGHER) RATED PRESSURE PIPE FOR SEWER WITH NO JOINTS CLOSER THAN 12' APART AND 6" VERTICAL.

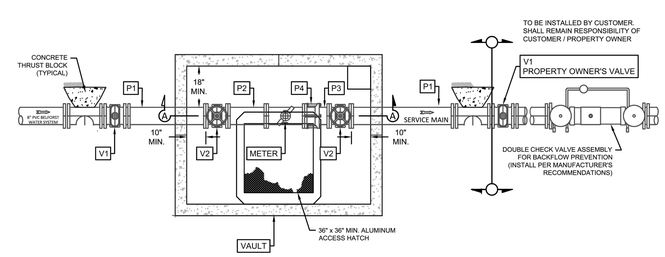
ALTERNATE 2: PLACE SEWER LINE INTO STEEL CASING AND CENTER 20' PIECE WITH 4' VERTICAL CLEARANCE AND SEAL ENDS.

FOR PARALLEL: AND 6' TO 10' APART USE ALTERNATE 2, BUT IF MORE THAN 40' IN LENGTH, ALTERNATE 1 MUST BE USED AND JOINTS ARE TO BE STAGGERED. IF LINES MUST BE 3' TO 6' APART, ALTERNATE 1 MUST BE USED WITH A HIGHER RATED PRESSURE PIPE FOR SEWER (i.e., WATER LINE IS DR25 THEN USE DR18 OR 21 FOR SEWER).

SEWER / WATER SEPARATION & CLEARANCES
N.T.S.



BACKFLOW PREVENTER ASSEMBLY DETAIL FOR DOMESTIC WATER LINE



PLAN VIEW

*ALL PIPE, FITTINGS, VALVES, VAULTS AND METERS TO BE PER RIVIERA UTILITIES SPECIFICATIONS FOR MAKE, MODEL, ETC..

MASTER METER VAULT AND ASSEMBLY DETAIL

ADDITIONS TO ELBERTA HIGH SCHOOL FOR THE BALDWIN COUNTY BOARD OF EDUCATION
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ARCHITECTS, INC.
631 SOUTH HULL STREET, MONTGOMERY, ALABAMA 36104 (334) 834-9933

Sawgrass ENGINEERING · SURVEYING · CONSTRUCTION MANAGEMENT
30573 Syl E. I. Tesco Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7060

ALABAMA LICENSED No. 31240 PROFESSIONAL ENGINEER 10-4-23 William H. Robertson

SHEET TITLE : WATER DETAILS

MCKEE JOB # : 23.192

DRAWN BY : BAT/MT

DATE: 10-04-23

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : C-6.3

- \\sgprimary\shares\1-clients\23-120 '23 additions to elberta hs mckee\CIVIL ENGINEERING\PRODUCTION DWGS\23-120 NOTES-DETAILS.dwg
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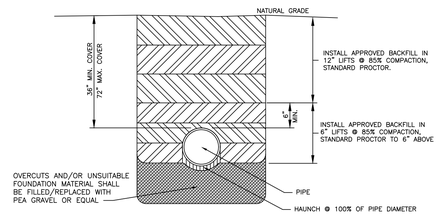
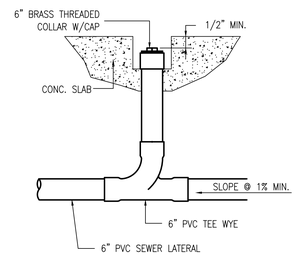
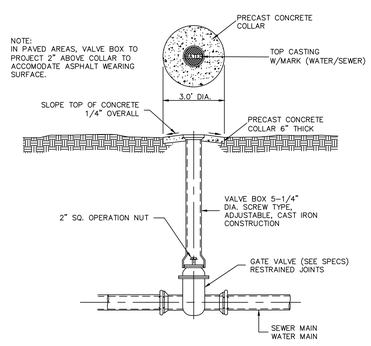


TYPICAL SEWER MAIN TRENCH DETAIL



SEWER CLEAN-OUT



SEWER GATE VALVE

ADDITIONS
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30673 Syl E. I. "Boots" Thomas Drive, Spanish Fort, AL 36527 Phone: (251) 544-7060

ALABAMA LICENSED No. 31240 PROFESSIONAL ENGINEER 10-4-23 James H. Robertson, III

SHEET TITLE : SEWER DETAILS

MCKEE JOB # : 23.192

DRAWN BY : BAT/MT

DATE: 10-04-23

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : C-6.4

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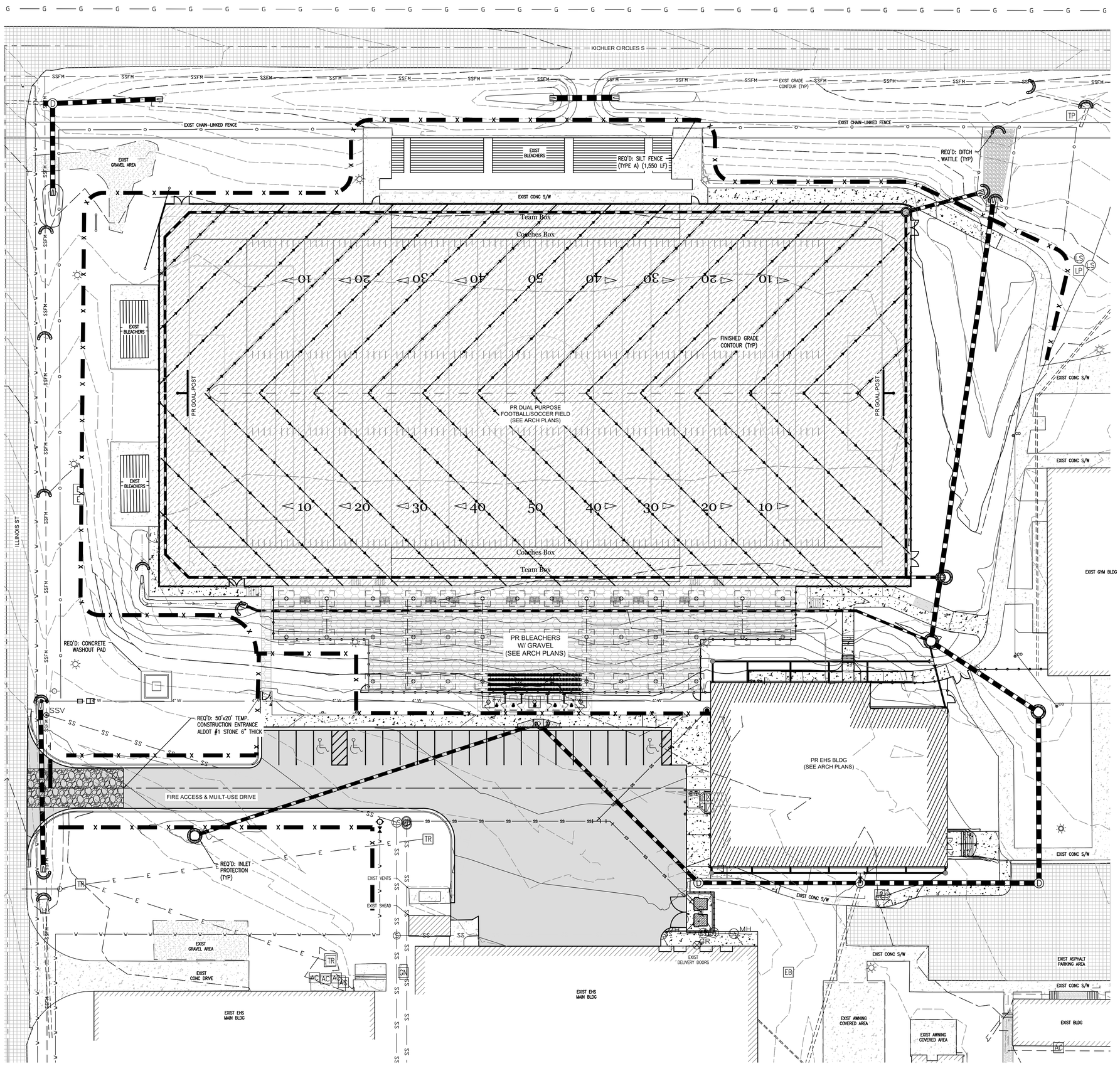

LEGEND

- PR INLET PROTECTION
- PR DITCH CHECK WATTLE
- PR CONC WASHOUT
- PR SLIT FENCE
- PR CONSTRUCTION ENTRANCE
- PR SOD & TOPSOIL AREA
- PR TURF AREA

SOIL EROSION & SEDIMENT CONTROL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST BE IN ACCORDANCE WITH THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORM WATER MANAGEMENT FOR CONSTRUCTION SITES AND URBAN AREAS, VOLUME 1 AND 2, LATEST EDITION.
2. THE MEASURES SET FORTH IN THE EROSION CONTROL PLAN ARE INTENDED AS THE MINIMUM STANDARDS, ANY EROSION CONTROL MEASURE BEYOND THAT SPECIFIED IN THE PLAN, THAT IS REQUIRED TO COMPLY WITH LOCAL, STATE, AND FEDERAL LAW, SHALL BE IMPLEMENTED.
3. IN THE EVENT THAT EROSION PREVENTION AND CONTROL DEVICES SHOWN IN THE EROSION CONTROL PLAN PROVE NOT TO BE EFFECTIVE, ALTERNATE METHODS FOR MAINTAINING STATE WATER QUALITY STANDARDS FOR DISCHARGE FROM THE CONSTRUCTION SITE WILL BE REQUIRED. ALL ALTERNATE EROSION PREVENTION AND CONTROL DEVICES MUST BE REVIEWED AND APPROVED BY LOCAL AND STATE COMPLIANCE PERSONNEL PRIOR TO PLACEMENT.
4. THE CONTRACTOR SHALL INSPECT INSTALLED BMPS AT LEAST ONCE EVERY SEVEN (7) DAYS AND REPAIR OR REPLACE MY DAMAGED OR INEFFECTIVE DEVICES.
5. THE CONTRACTOR SHALL INSPECT INSTALLED BMPS WITHIN 24 HOURS AFTER PRECIPITATION EVENTS OF 0.50 INCHES OR GREATER AND REPAIR OR REPLACE ANY DAMAGED OR INEFFECTIVE DEVICES.
6. DISTURBED AREAS SHALL BE GRADED, SODDED, OR VEGETATED (SEEDED AND MULCHED)WITHIN 13 DAYS OF ANY CONSTRUCTION ACTIVITY FOR AN EFFECTIVE BMP.
7. ALL AREAS IDENTIFIED TO HAVE SOLID SODDING, SHALL BE VEGETATED WITH PERMANENT SEEDING (SEASONAL MIX) IN ACCORDANCE WITH SECTION 860, TABLE FOR ZONE 3 IN THE ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS HIGHWAY CONSTRUCTION (CURRENT EDITION).
8. SILT FENCE MUST MEET THE REQUIREMENTS OF LOCAL JURISDICTIONAL AGENCY, SAID REQUIREMENTS AS SHOWN BY THESE PLANS.
9. WHEN ANY CONSTRUCTION BORDERS A DRAINAGE COURSE:

A. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY BUILDING OR OTHER EXCAVATION SPOIL DIRT, CONSTRUCTION TRASH OR DEBRIS, ETC., FROM THE DRAINAGE AREA SHOWN HEREON IN AN EXPEDITIOUS MANNER AS CONSTRUCTION PROGRESSES.

B. THE CONTRACTOR HEREBY AGREES TO STOP ALL WORK AND RESTORE THESE AREAS IMMEDIATELY UPON NOTIFICATION BY THE LOCAL JURISDICTIONAL INSPECTOR AND/OR PROFESSIONAL ENGINEER.

10. A COPY OF THE APPROVED LAND DISTURBANCE PLAN SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBING ACTIVITY IS IN PROGRESS.
11. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL CLEAN OUT ALL SEDIMENT PONDS WHEN REQUIRED BY THE ENGINEER OR LOCAL JURISDICTIONAL INSPECTOR. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
12. ALL SLOPES SHALL BE STABILIZED AND VEGETATED AS SOON AS POSSIBLE. USE EROSION CONTROL BLANKET (ECB) WHERE GRASSING SLOPES ARE INTERMITTENT.
13. ALL CONSTRUCTION WASTE AND DEBRIS, SILT FENCES, HAY BALES, AND INLET PROTECTION AND OTHER TEMPORARY BMP'S HALL BE REMOVED FROM THE SITE UPON CONSTRUCTION COMPLETION.
14. INACTIVE PROJECTS (MORE THAN 7 DAYS) SHALL BE MULCHED IF INACTIVE FOR LESS THAN 60 DAYS. IF INACTIVE FOR MORE THAN 60 DAYS, DISTURBED AREAS SHALL BE SEEDED & MULCHED

GRAPHIC SCALE

0 10 20 40

1 inch = 20 feet

ADDITIONS TO ELBERTA HIGH SCHOOL

FOR THE

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ENGINEERING · SURVEYING · CONSTRUCTION MANAGEMENT
30073 Spt. E. L. Bryan Thomas Drive, Spanish Fort, AL 36527
Phone: (251) 544-7060

ALABAMA LICENSED No. 31242 PROFESSIONAL ENGINEER 10-4-23 Thomas H. Robertson, II

SHEET TITLE : EROSION CONTROL PLAN

MCKEE JOB # : 23.192

DRAWN BY : BAT/MT

DATE: 10-04-23

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : C-7.0

- \\sgprimary\shares\1-clients\23-120 '23 additions to elberta hs mckee\CIVIL ENGINEERING\PRODUCTION DWGS\23-120 G&D-EC PLAN.dwg
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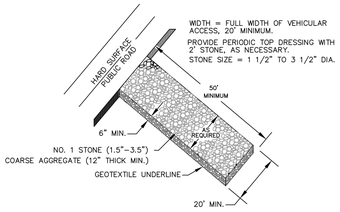
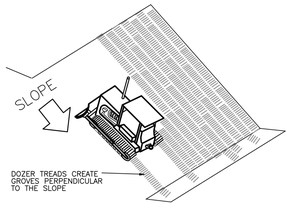


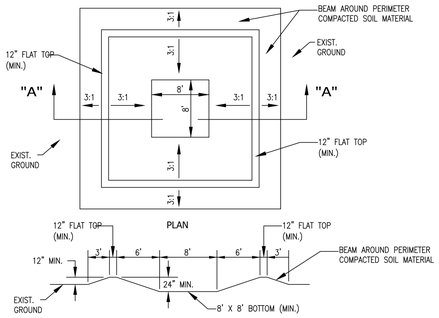
STONE PAD CONSTRUCTION EXIT

NTS



SURFACE ROUGHENING

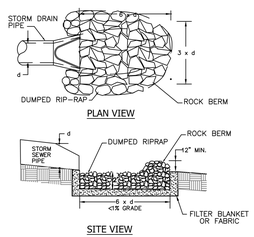
NTS



SECTION "A-A"

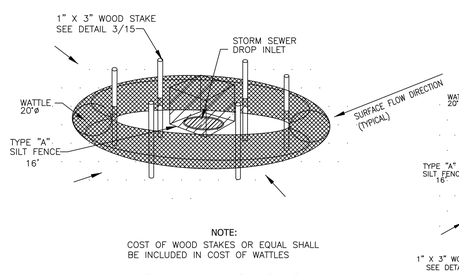
CONCRETE WASHOUT AREA DETAILS

NTS



RIPRAP OUTLET PROTECTION

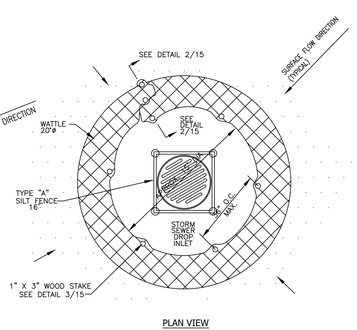
NTS



NOTE:
COST OF WOOD STAKES OR EQUAL SHALL BE INCLUDED IN COST OF WATTLES

DROP INLET PROTECTION

NTS



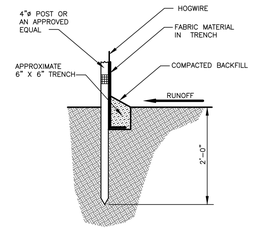
PLAN VIEW

GENERAL NOTES

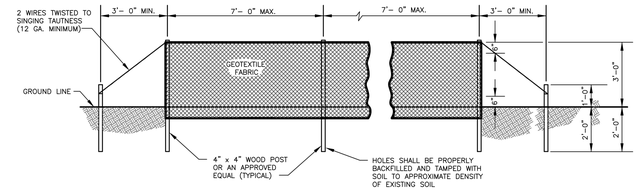
1. TYPE "A" SILT FENCE SHALL BE USED IN AREAS OF CONCENTRATED FLOW.
2. SILT FENCES ARE TEMPORARY EROSION CONTROL ITEMS THAT SHALL BE ERECTED OPPOSITE EROIDBLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
3. SILT FENCE SHOULD BE PLACED WELL INSIDE PROPERTY BOUNDARY AND ALONG EDGE OF CLEARING LIMITS. THIS WILL ALLOW ROOM FOR A BACK-UP FENCE IF FIRST BECOMES FULL. SILT FENCES SHALL BE IN PLACE PRIOR TO ANY CONSTRUCTION OPERATION.
4. WHEREVER POSSIBLE, SILT FENCES SHALL BE CONSTRUCTED ACROSS A FLAT AREA IN THE SHAPE OF A HORSESHOE. THIS AIDS IN POND-ING OF RUNOFF AND FACILITATES SEDIMENTATION.
5. AFTER THE CONSTRUCTION AREA IS STABILIZED AND EROSION ACTIVITY CURTAILED, SILT FENCES SHALL BE REMOVED.
6. RING FASTENERS USED TO SECURE GEOTEXTILES TO WOVEN WIRE SHALL BE 13 GA. (AMERICAN).
7. IF WOOD POSTS ARE USED, STAPLES FOR SECURING WOVEN WIRE TO POSTS SHALL BE NINE (9) GAUGE, GALVANIZED, 1 1/2" LONG, FIVE (5) PER POST @ APPROXIMATELY 1'-0" ON CENTER.
8. WOVEN WIRE TO BE 12 1/2 GAUGE (MINIMUM).

SPECIFICATIONS

CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

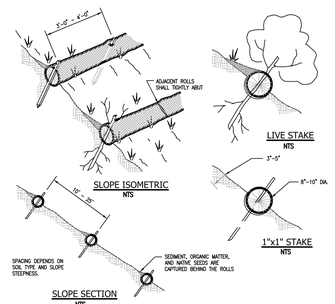


SECTION



TYPE "A" TYPICAL SILT FENCE INSTALLATION

NTS

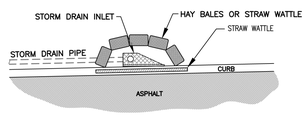


NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.
3. STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3" – 5" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

STRAW WATTLES

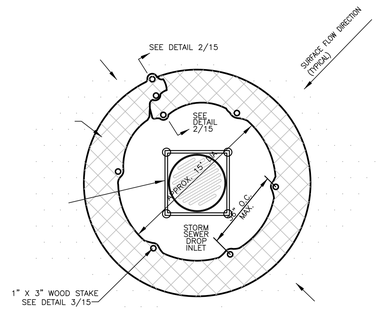
SLOPE STABILIZATION INSTALLATION DETAIL

NTS

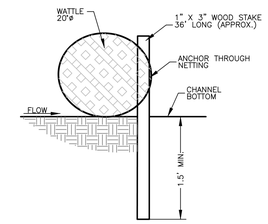


TYPICAL INLET EROSION CONTROL

NTS

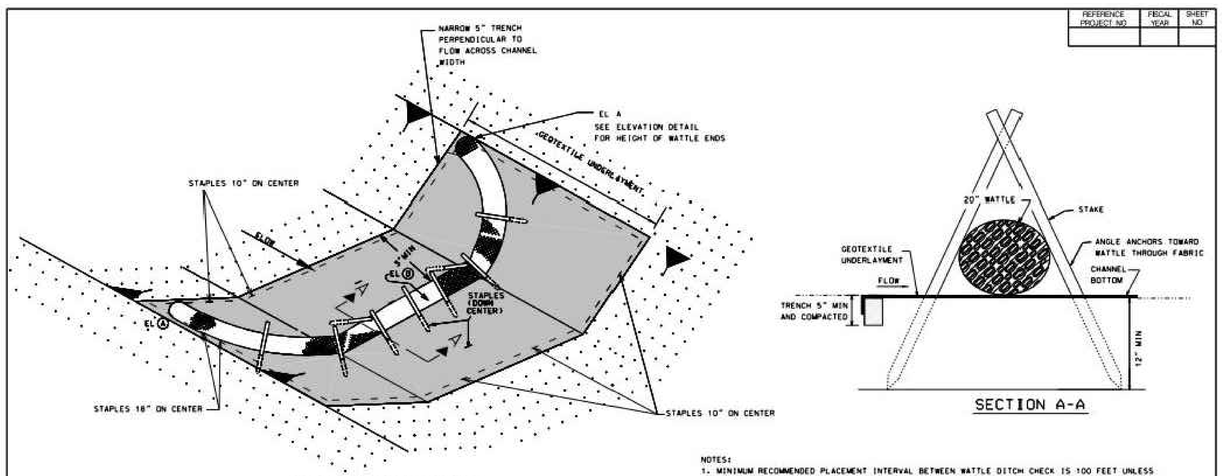


PLAN VIEW



STAKE DETAILS

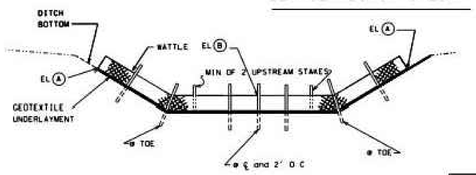
N.T.S.



DETAIL (DITCH CHECK)

SECTION A-A

NOTES:
1. MINIMUM RECOMMENDED PLACEMENT INTERVAL BETWEEN WATTLE DITCH CHECK IS 100 FEET UNLESS SHOWN OTHERWISE ON THE PLANS OR APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON ESC-300-1.
2. ANCHORING STAKES SHALL BE SIZED, SPACED, DRIVEN, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE CHECK. STAKE SPACING SHALL BE A MAXIMUM OF TWO FEET.
3. WATTLES SHOULD NOT BE USED IN HARD BOTTOM CHANNELS.
4. STAPLES SPACED 18 INCHES APART, ALONG THE CHANNEL EDGES AND DOWN THE CENTER OF THE CHANNEL.STAPLES SPACED 10 INCHES APART, ACROSS THE UPSTREAM AND DOWNSTREAM EDGES.



ELEVATION DETAIL

NOTE: END POINTS (A) MUST BE HIGHER THAN FLOWLINE POINT (B)

WATTLE DITCH CHECK SELECTION GUIDELINES

WATTLE DITCH CHECKS ARE APPROPRIATE FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS NOT EXCEEDING 1.0 CU FT/SEC.

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

THIS DRAWING REPRESENTS DESIGNS PROPOSED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND IS NOT TO BE COPIED, REPRODUCED, ALTERED OR USED BY ANYONE OR ANY ORGANIZATION WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION. REPRODUCTION, ALTERATION OR USE WITHOUT SUCH CONSENT IS UNLAWFUL. UNAUTHORIZED USE OF THIS DRAWING MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

REVISIONS
1. REMOVED "BOTTOM 1/3 OF WATTLE" REQUIREMENT FROM SPACING GUIDANCE IN NOTES ON ESC-300-1 AND ESC-300-2 (2/1/2010)
2. REVISED ESC-300-4 DETAIL (DITCH CHECK) TO INCLUDE ADDITIONAL DETAILS FOR WATTLE DITCH CHECK SELECTION, PLACEMENT AND ANCHORING AND CLARIFY WATTLE DITCH CHECK SELECTION GUIDELINES (2/1/2010)
3. REVISED NOTES ON ESC-300-1 AND ESC-300-2 (2/1/2010)
4. REVISED NOTES ON ESC-300-1 AND ESC-300-2 (2/1/2010)
5. REVISED ESC-300-4 DETAIL TO TYPE ESC-300-4 TO BE ON ESC-300-4 (2/1/2010)
6. REVISED ESC-300-4 (2/1/2010)

Surface End Stop: N.A.
Shown On: _____ DATE Shown: _____ 2009

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36110-3050

EROSION BUREAU SPECIAL DRAWING

DETAILS OF EROSION CONTROL WATTLE DITCH CHECKS

SPECIAL DRAWING NO. ESC-300-4 | SHEET NO. 66515

NOT TO SCALE

REFERENCE PROJECT NO.	FISCAL YEAR	SHEET NO.

Sawgrass
ENGINEERING · SURVEYING · CONSTRUCTION MANAGEMENT
30073 Sgt. E. L. "Bozo" Thomas Drive, Superior Fort, AL 36027 Phone: (251) 544-7000

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

ADDITIONS TO ELBERTA HIGH SCHOOL FOR THE BALDWIN COUNTY BOARD OF EDUCATION

BAY MINETTE, ALABAMA

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 31242 10-4-23 James H. Robertson II

SHEET TITLE : EROSION CONTROL DETAILS

MCKEE JOB # : 23.192

DRAWN BY : BAT/MT

DATE: 10-04-23

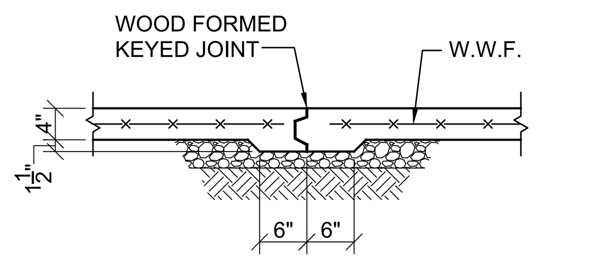
REVISED DATE:

REVISED DATE:

REVISED DATE:

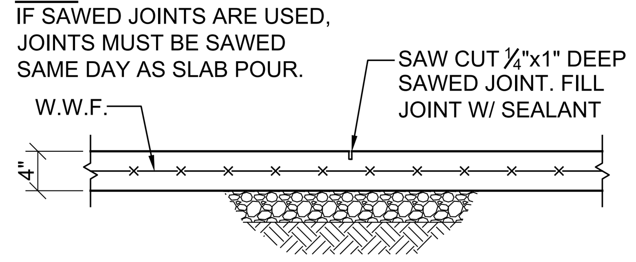
SHEET NO. : C-7.1

- \\sgprimary\shares\1-clients\23-120 '23 additions to elberta hs mckee\CIVIL ENGINEERING\PRODUCTION DWGS\23-120 NOTES-DETAILS.dwg
- Wednesday, October 4, 2023 3:31:54 PM

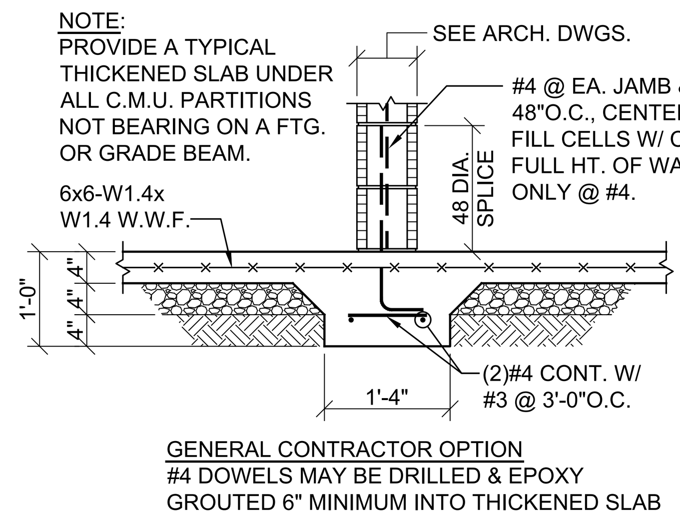


TYPICAL SLAB CONSTRUCTION JOINT DETAIL-(C.J.)

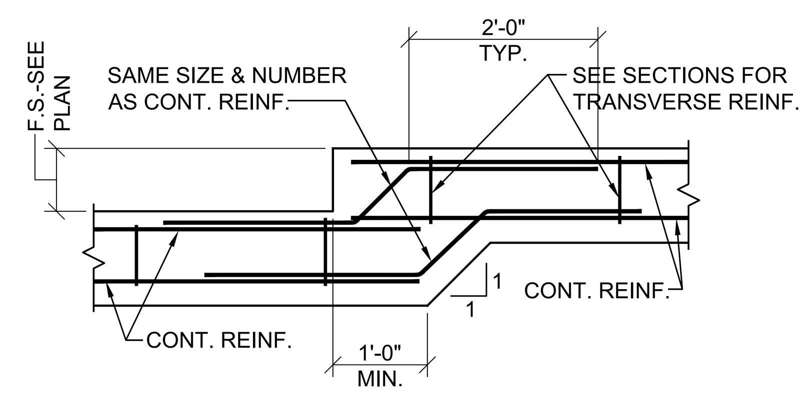
NOTE:
IF SAWED JOINTS ARE USED, JOINTS MUST BE SAWED SAME DAY AS SLAB POUR.



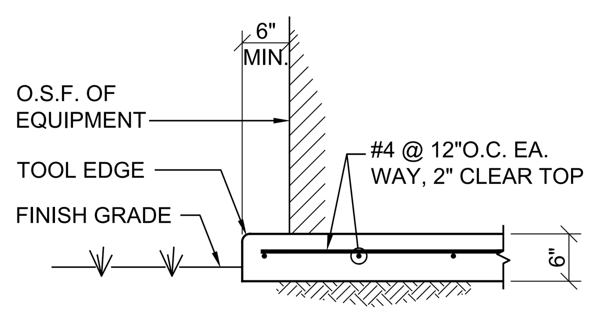
ALTERNATE SLAB CONSTRUCTION JOINT DETAIL (SAWED JOINT)



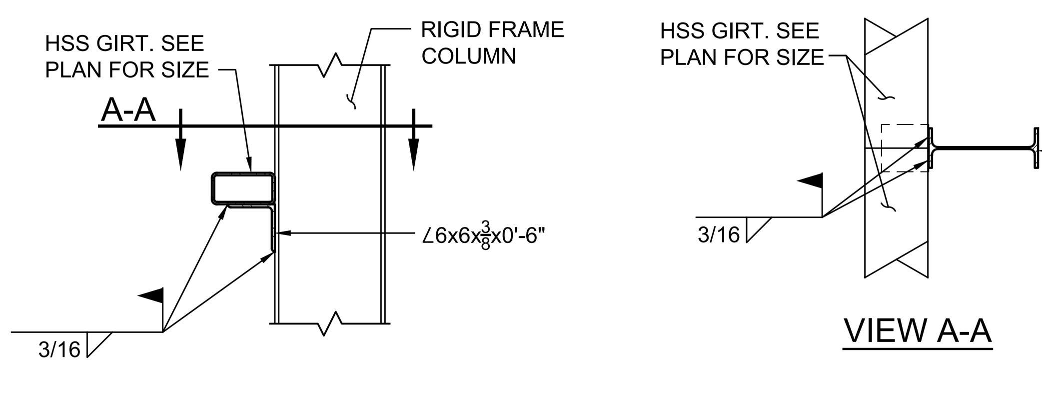
TYPICAL THICKENED SLAB DETAIL



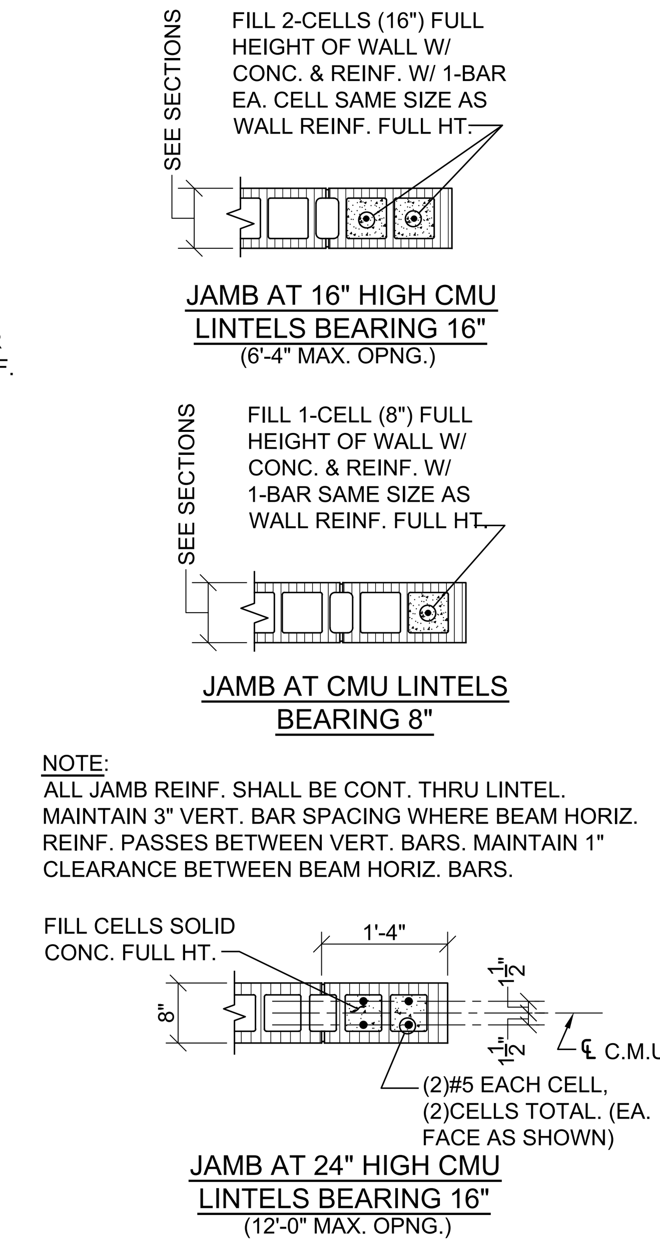
TYPICAL FOOTING STEP DETAIL - (F.S.)



TYPICAL EQUIPMENT PAD DETAIL



TYPICAL HSS GIRT TO BUILDING COLUMN DETAIL



TYPICAL JAMB REINFORCING DETAILS
(UNLESS NOTED OTHERWISE ON DRAWINGS)

GENERAL NOTES

FOUNDATION:
1. THE BEARING STRATA OF ALL FOOTINGS AND GRADE BEAMS SHALL BE INSPECTED AND APPROVED BY THE SOILS TESTING LABORATORY PRIOR TO PLACING THE REINFORCING STEEL AND CONCRETE.
2. ALL FOOTINGS SHALL BEAR ON AN UNDISTURBED SOIL STRATA OR COMPACTED FILL CAPABLE OF SUSTAINING THE LOADS.
3. FOOTINGS WERE DESIGNED FOR AN ALLOWABLE SOIL BEARING OF P = 2000 PSF. ALLOWABLE SOIL BEARING SHALL BE VERIFIED BY TESTING AGENCY PRIOR TO FOOTINGS BEING POURED.
4. ELEVATIONS SHOWN ON PLAN ARE TOP OF FOOTINGS AND ARE MINIMUM DEPTH. DIFFERENT OR UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT AND/OR ENGINEER.
5. ALL FOOTING REINFORCEMENT SHALL BE HELD SECURELY FROM THE GROUND. CONCRETE BLOCK AND BROKEN TILE SHALL NOT BE USED. CONCRETE OR CLAY BRICK MAY BE USED.
6. DOWEL ALL FOOTINGS AND WALLS WHERE THEY ABUT WITH SAME STEEL AS VERTICAL.
7. PROVIDE PREFORMED EXPANSION JOINT WHERE SHOWN.
8. IN FOOTINGS PROVIDE CORNER BARS AT ALL EXTERIOR BUILDING CORNERS.
9. DO NOT BACK FILL BEHIND FOUNDATION WALLS UNTIL TOP AND BOTTOM SLABS HAVE BEEN POURED AND ATTAINED THEIR DESIGN STRENGTHS.
10. BACK FILL BOTH SIDES OF FOUNDATION WALLS AT SAME TIME TO PREVENT OVERTURNING.
11. BACK FILL BEHIND ALL RETAINING WALLS SHALL BE AN APPROVED GRANULAR MATERIAL.

CONCRETE:
1. ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH AT 28 DAYS OF F'c = 3000 PSI AND A MAXIMUM WATER-CEMENT RATIO OF 0.53. ALL CONCRETE FOR EXTERIOR APPLICATIONS SHALL CONTAIN ENTRAINED AIR. SEE SPECS FOR ADDITIONAL INFORMATION.
2. REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.
3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 OR ASTM A1064.
4. UNLESS NOTED OTHERWISE PROTECTIVE COVERING OF REINFORCEMENT SHALL BE AS FOLLOWS (SEE DETAILS) : FOOTINGS AND GRADE BEAMS 3" CLEAR BOTTOM AND SIDES, 1 1/2" CLEAR TOP. CONCRETE SLABS 3/4" CLEAR. WALLS 1 1/2" CLEAR SIDES. BEAMS 1 1/2" CLEAR TO STIRRUPS. FORMED CONCRETE COLUMNS 1 1/2" CLEAR TO TIES.
5. LAP ALL CONCRETE WALL VERTICAL REINFORCING AND CONCRETE BEAM HORIZONTAL REINFORCING WITH CLASS B LAP SPLICES. SPLICE TIE RODS WITH MECHANICAL SPLICES CAPABLE OF DEVELOPING 125% OF THE BAR YIELD STRENGTH. LAP ALL OTHER CONTINUOUS BARS WITH CLASS A SPLICES UNLESS NOTED OTHERWISE.
6. PLACING PLANS AND DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST "A.C.I. DETAILING MANUAL".
7. STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR THE ARCHITECT AND/OR ENGINEER'S REVIEW.
8. DO NOT RUN CONDUITS, RACEWAYS, OR PIPES IN CONCRETE SLABS, BEAMS, OR COLUMNS WITHOUT SPECIFIC APPROVAL FROM BLACKBURN DANIELS O'BARR.

MASONRY:
1. PROVIDE MASONRY HORIZONTAL JOINT REINFORCEMENT 16" O.C. VERTICAL IN ALL CONCRETE BLOCK WALLS. REINFORCEMENT SHALL BE FOR TOTAL WIDTH OF CAVITY WALLS.
2. WHERE CONCRETE OR STEEL BEAMS BEAR ON CONCRETE BLOCK WALLS, BLOCK CELLS SHALL BE FILLED WITH CONCRETE 1'-4" WIDE TO FOUNDATION AND REINFORCED WITH A #5 EACH CELL UNLESS NOTED OR DETAILED OTHERWISE.
3. CONCRETE OR GROUT FOR BLOCK FILL SHALL HAVE 3/8 INCH MAXIMUM SIZE COARSE AGGREGATE AND SUFFICIENT WATER SO THE CONCRETE WILL FLOW INTO THE BLOCK CELLS WITHOUT LEAVING VOIDS. HEIGHT OF LIFT WHEN FILLING CELLS SHALL NOT EXCEED 4'-0".
4. CONCRETE OR GROUT FILL FOR C.M.U. SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF F'c = 3000 PSI. ON 16" AND DEEPER U-BLOCKS, FILL CELLS FULL HEIGHT OF LINTEL AT SAME TIME.
5. ANCHOR ALL MASONRY WALLS TO STEEL COLUMNS WITH STRAP ANCHORS AT 16" O.C. VERTICALLY UNLESS SHOWN OTHERWISE.
6. UNLESS INDICATED OTHERWISE PROVIDE KEYED RUBBER MASONRY CONTROL JOINTS AT A MAXIMUM SPACING OF 25'-4". JOINT SHALL BE DISCONTINUOUS AT BOND BEAM. COORDINATE EXACT LOCATIONS WITH ARCHITECT.
7. PROVIDE REINFORCING BAR SUPPORTS TO CENTER VERTICAL REINFORCING IN MASONRY WALLS.
8. PROVIDE 48 DIAMETER LAP SPLICE IN VERTICAL MASONRY REINFORCING.
9. PROVIDE CORNER BARS IN U-BLOCK BOND BEAMS AT CORNERS, TYPICAL.
10. ALL CMU SHALL BE PLACED IN A RUNNING BOND PATTERN UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.
11. VERTICAL REINFORCING SHALL BE CONTINUOUS THROUGH BOND BEAMS AND LINTELS (CUT OUT OR NOTCH BOTTOM OF U-BLOCKS AS REQUIRED -- DO NOT SUBSTITUTE BLOCK WITH KNOCK-OUT WEBS WHERE STANDARD U-BLOCK IS INDICATED). FOR BOND BEAMS AT TOP OF WALL, EXTEND VERTICAL REINFORCING TO 1" CLEAR TOP OF BOND BEAM.

STRUCTURAL STEEL:
1. ALL STRUCTURAL STEEL W AND WT SHAPES SHALL CONFORM TO ASTM A992 (GRADE 50). OTHER SHAPES (EXCEPT TUBE SECTIONS) SHALL CONFORM TO ASTM, A36, LATEST EDITION.
2. STRUCTURAL STEEL TUBE SECTIONS SHALL CONFORM TO ASTM A500, GRADE B, Fy = 46.0 KSI.
3. HEADED STUDS SHALL BE TYPE B SHEAR CONNECTORS (Fu = 65 KSI).
4. STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR THE ARCHITECT AND/OR ENGINEER'S REVIEW.
5. THE CONTRACTOR SHALL VERIFY ALL SHOP DRAWINGS DIMENSIONS WITH STRUCTURAL AND ARCHITECTURAL PLANS AND DETAILS.
6. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS CONFORMING TO ASTM A325. USE 3/4 INCH DIAMETER MINIMUM.
7. CONNECTIONS NOT SHOWN ON DRAWINGS SHALL BE DESIGNED BY THE FABRICATOR. WHERE POSSIBLE USE DOUBLE ANGLE CONNECTIONS. USE MAXIMUM NUMBER OF BOLTS FOR DEPTH OF BEAM WITH SINGLE ROW OF BOLTS.

PRE-ENGINEERED METAL BUILDING:
1. THE COMPLETE DESIGN OF METAL BUILDING INCLUDING ALL COMPONENTS SHOWN OR NOT SHOWN ON THE DRAWINGS SHALL BE ACCOMPLISHED BY THE BUILDING MANUFACTURER.
2. THE DESIGN SHALL BE MADE BY A REGISTERED ENGINEER, REGISTERED IN THE STATE OF ALABAMA AND HE SHALL AFFIX HIS REGISTRATION NUMBER TO ALL SHOP DRAWINGS AND CALCULATIONS.
3. THE BUILDING AND ALL OF ITS COMPONENTS SHALL BE DESIGNED FOR THE FOLLOWING DEAD AND LIVE LOADS;
   a.) ACTUAL WEIGHT OF STEEL STRUCTURE.
   b.) 8 PSF DEAD (COLLATERAL) LOAD IN ADDITION TO ACTUAL WEIGHT OF STRUCTURE AND ROOFING MATERIALS.
   c.) 20 PSF ROOF LIVE LOAD.
   d.) ANY ADDITIONAL LOADS AND REACTIONS THAT ARE SHOWN ON THE DRAWINGS.
   e.) WIND LOADING AS REQUIRED BY INTERNATIONAL BUILDING CODE.
4. NO LIVE LOAD REDUCTION SHALL BE TAKEN FOR THE DESIGN OF THE RIGID FRAMES.
5. WHERE MEMBER SIZES AND GAGES ARE SHOWN THEY SHALL BE CONSIDERED A MINIMUM SIZE. THE MANUFACTURER SHALL NOT USE SMALLER SIZE OR LIGHTER GAGES, OR OMIT FRAMING WHERE INDICATED. HE SHALL USE ONLY LARGER SIZE AND HEAVIER GAGES IF HIS DESIGN INDICATES THESE ARE REQUIRED TO MEET THE LOADING CRITERIA
6. THE DEFLECTION OF GIRTS SHALL BE LIMITED TO 1/240 OF THE SPAN AND DEFLECTION OF PURLINS SHALL BE LIMITED TO 1/240 OF THE SPAN. DEFLECTION OF RIGID FRAMES SHALL BE LIMITED TO 1/240 OF THE SPAN. DEFLECTIONS SHALL BE BASED ON TOTAL LOAD (DEAD PLUS LIVE LOADS). TOTAL RIGID FRAME DRIFT SHALL BE LIMITED TO H/360, WHERE H IS EQUAL TO THE EAVE HEIGHT.
7. COLUMN BASES SHALL BE DESIGNED AS PINNED CONNECTIONS. MOMENTS AT COLUMN BASE PLATES ARE NOT ACCEPTABLE.
8. LOCATE PORTAL FRAMES ONLY WHERE INDICATED ON PLAN. PORTAL FRAME COLUMNS SHALL BE NESTED TIGHT TO WEB OF RIGID FRAME COLUMN (WITH COMMON BASE PLATE).

CODES:
ALL PARTS SHALL BE FURNISHED AND ERECTED ACCORDING TO THE APPLICABLE CODES AND SPECIFICATIONS OF THE FOLLOWING:
AMERICAN CONCRETE INSTITUTE (ACI)
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
AMERICAN WELDING SOCIETY (AWS)
OSHA STEEL ERECTION STANDARD (OSHA)
INTERNATIONAL BUILDING CODE (IBC 2021) (ICC)

DESIGN LIVE LOADS:
ROOF.......20 PSF.
WIND.......INTERNATIONAL BUILDING CODE (PER ASCE 7-16)
WIND EXPOSURE............................C
RISK CATEGORY (PER IBC 2021/ASCE 7-16)..........II
ULTIMATE DESIGN WIND SPEED (Vult).........156 MPH
NOMINAL DESIGN WIND SPEED (Vasd)..........121 MPH
INTERNAL PRESSURE COEFFICIENTS............+/-0.18
SEISMIC....INTERNATIONAL BUILDING CODE (PER ASCE 7-16)
SEISMIC IMPORTANCE FACTOR.................Ie=1.0
MAPPED SPECTRAL ACCELERATION (SHORT-TERM).Ss=0.084g
MAPPED SPECTRAL ACCELERATION (1-SECOND)...S1=0.056g
SITE CLASS...............................D
SHORT-PERIOD SPECTRAL RESPONSE ACCEL......Sds=0.090g
1-SECOND SPECTRAL RESPONSE ACCEL..........Sd1=0.090g
SEISMIC DESIGN CATEGORY...................B
SEISMIC FORCE-RESISTING SYSTEM............STEEL MOMENT FRAMES
DESIGN BASE SHEAR (ULTIMATE)..............13.6k
SEISMIC RESPONSE COEFFICIENT..............Cs=0.039
RESPONSE MODIFICATION FACTOR..............R=3
ANALYSIS PROCEDURE........................ASCE 7 (SECT 12.8)

SNOW.......INTERNATIONAL BUILDING CODE
GROUND SNOW LOAD..........................Pg=0 PSF

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

ROOF:TRIBUTARY AREA A = 10 SF
ZONE 1: -87.2 PSF/23.4 PSF
ZONE 2: -115.0 PSF/23.4 PSF
ZONE 3: -156.7 PSF/23.4 PSF
ZONE 1': -50.0 PSF/23.4 PSF
ROOF:TRIBUTARY AREA A = 100 SF
ZONE 1: -68.1 PSF/18.5 PSF
ZONE 2: -90.4 PSF/18.5 PSF
ZONE 3: -107.6 PSF/18.5 PSF
ZONE 1': -50.0 PSF/18.5 PSF
WALL:TRIBUTARY AREA A = 10 SF
ZONE 4: -55.9 PSF/51.6 PSF
ZONE 5: -68.8 PSF/51.6 PSF
WALL:TRIBUTARY AREA A = 50 SF
ZONE 4: -50.7 PSF/46.4 PSF
ZONE 5: -58.3 PSF/46.4 PSF
WALL:TRIBUTARY AREA A = 100 SF
ZONE 4: -48.3 PSF/44.0 PSF
ZONE 5: -53.5 PSF/44.0 PSF
CORNER ZONE = 8.2 FT

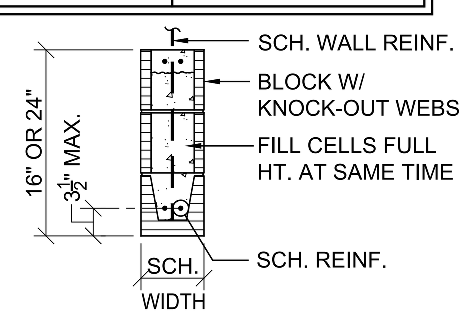
SPECIAL INSPECTIONS:
ALL SPECIAL INSPECTIONS REQUIRED BY CHAPTER 17 OF IBC SHALL BE PERFORMED BY A DESIGNATED TESTING AGENCY OR AGENCIES RESPONSIBLE FOR SPECIAL INSPECTIONS.

WIND REQUIREMENTS FOR SPECIAL INSPECTIONS:
1. THE FOLLOWING STRUCTURAL COMPONENTS ARE DESIGNATED AS WIND SYSTEMS AND/OR PART OF THE MAIN WINDFORCE-RESISTING SYSTEM OF THE BUILDING AND ARE SUBJECT TO THE REQUIREMENTS OF SECTION 1705.12 OF IBC 2021 AND PROJECT SPECIFICATIONS:
   ROOF DIAPHRAGM SYSTEM AND ATTACHMENT
   STEEL MOMENT FRAMES INCLUDING CONNECTIONS
   THESE SPECIFIC COMPONENTS ARE IN ADDTION TO ALL GENERAL COMPONENTS LISTED IN SECTION 1705.12 OF IBC 2021 AND ARE SUBJECT TO ALL SPECIAL INSPECTIONS AND TESTING AS REQUIRED BY CHAPTER 17 OF IBC 2021, PROJECT SPECIFICATIONS, AND SCHEDULE OF SPECIAL INSPECTIONS. SPECIAL INSPECTION REPORTS SHALL BE SUBMITTED AS PER THE STATEMENT OF SPECIAL INSPECTIONS.
2. OTHER ARCHITECTURAL COMPONENTS AND THEIR ANCHORAGES MAY ALSO BE DESIGNATED AS WIND-RESISTING COMPONENTS. SEE OTHER DISCIPLINE'S DRAWINGS AND SPECIFICATIONS.

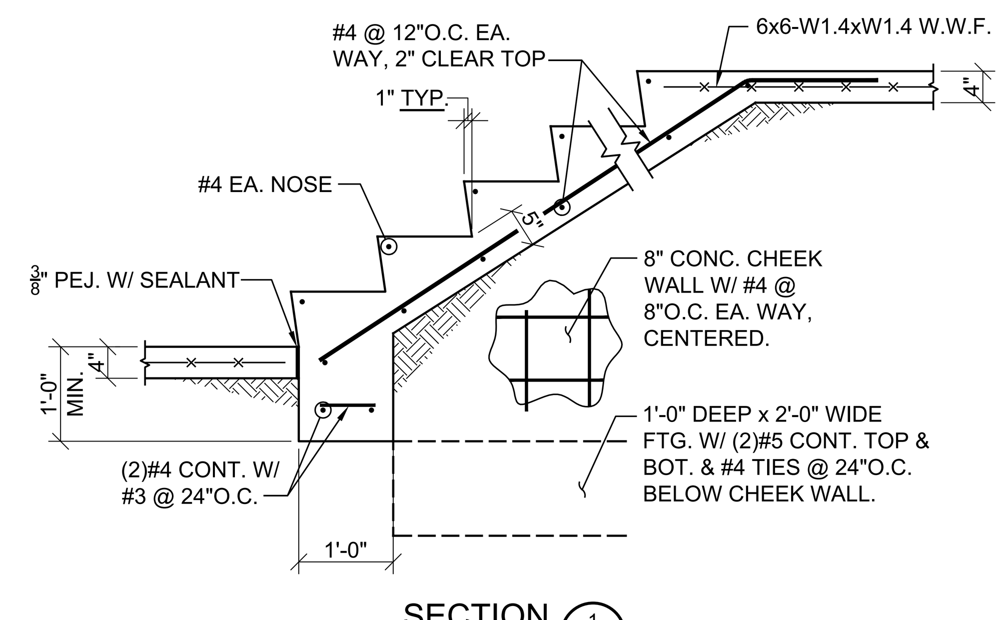
LINTEL SCHEDULE

MARK OR LOCATION	MAX. SPAN	TYPE	SIZE	REINFORCEMENT	REMARKS
8"C.M.U.	3'-4"	U-BLOCK	8"x8"	#5 TOP & BOT.	8" HI U-BLOCK
8"C.M.U.	10'-8"	U-BLOCK	8"x24"	(2)#5 TOP & BOT.	24" HI U-BLOCK
8"C.M.U.	6'-4"	U-BLOCK	8"x16"	(2)#5 TOP & BOT.	16" HI U-BLOCK
BRICK	3'-4"	STEEL ANGLE	∠4x4x¼		BEAR 8" EA. END
BRICK	10'-8"	STEEL ANGLE	∠7x4x⅜		BEAR 12" EA. END, L.L.V.
BRICK	6'-4"	STEEL ANGLE	∠6x4x⅜		BEAR 8" EA. END, L.L.V.

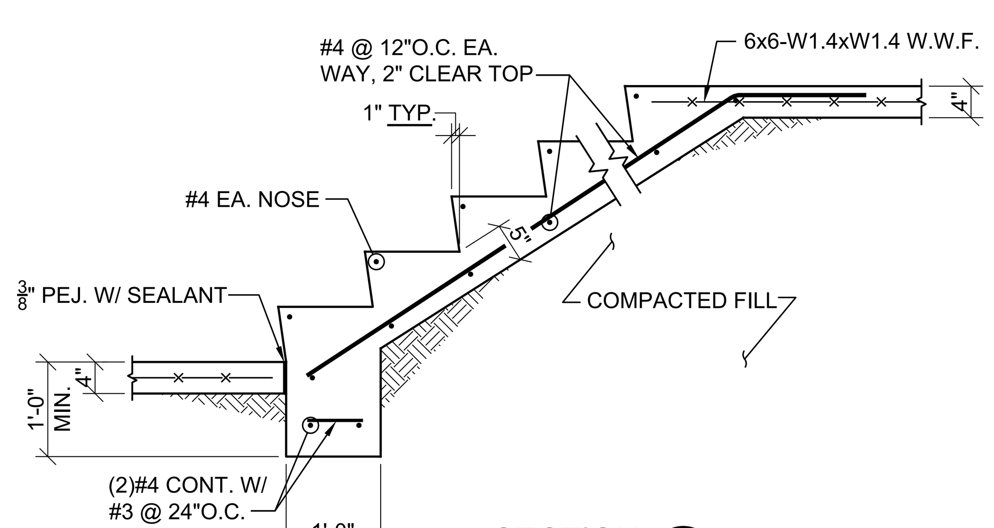
NOTES:
1 - BEAR 8" HIGH U-BLOCKS 8" EACH END - 16"& 24" HIGH U-BLOCKS 16" EACH END.
2 - FILL CELLS W/ CONCRETE FULL HEIGHT @ U-BLOCK BEARING, FOR ENTIRE LENGTH OF BEARING. REINF. EA. CELL W/ BAR SAME SIZE AS WALL REINFORCING FULL HT. OF WALL. VERTICAL REINFORCING SHALL BE CONT. THRU LINTEL @ BEARING.
3 - FILL CELLS OF U-BLOCK LINTEL TO FULL HT. IN ONE POUR.



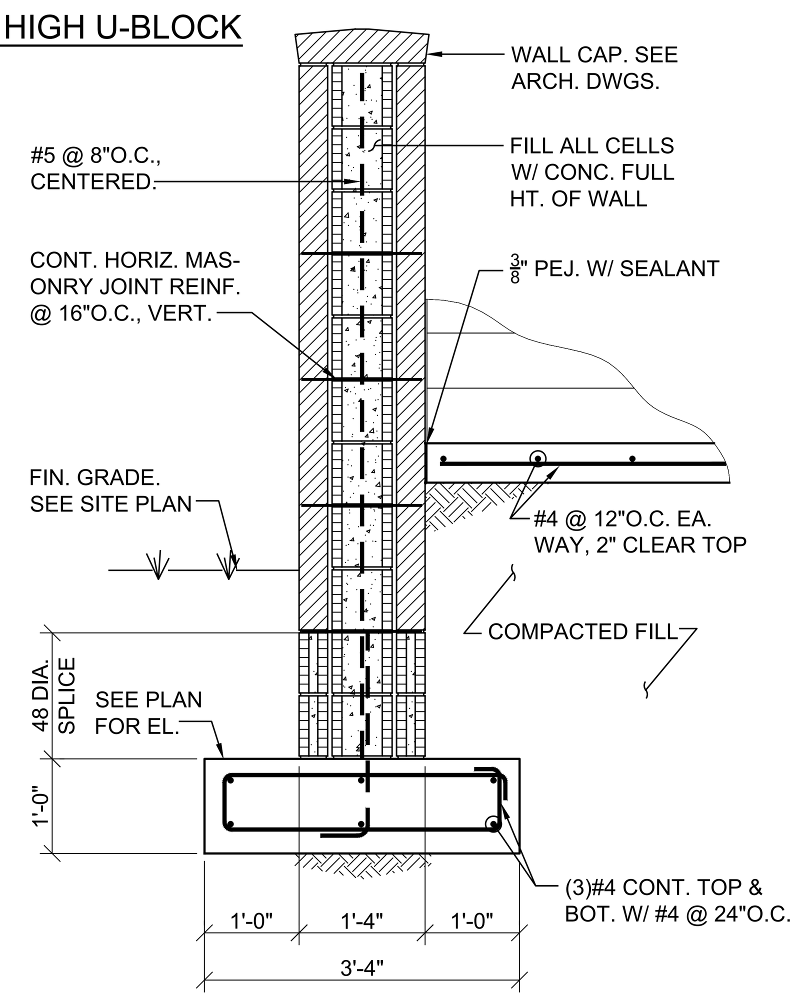
16" & 24" HIGH U-BLOCK



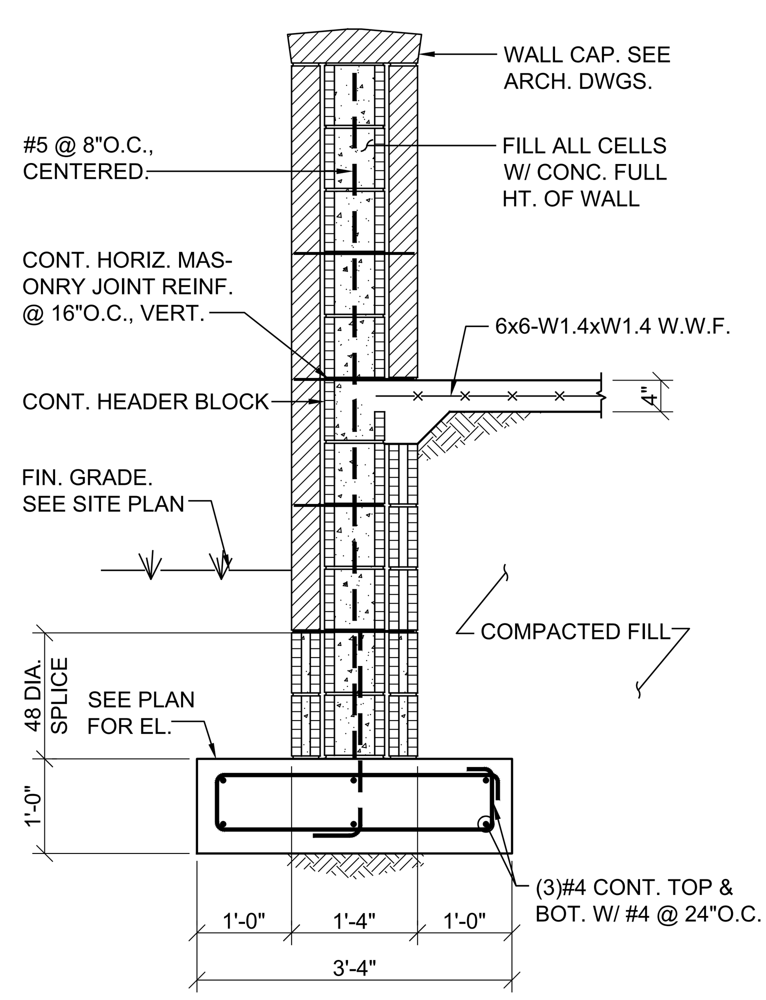
SECTION 1/S0.1
3/4"=1'-0"



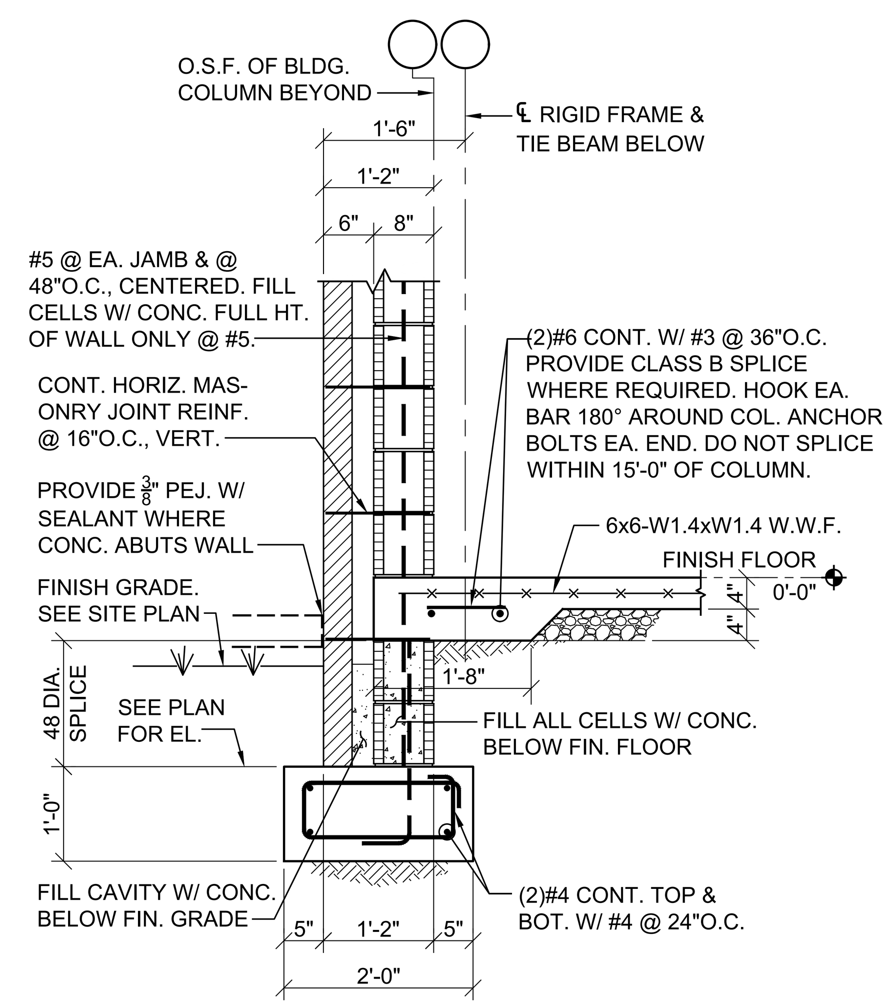
SECTION 2/S0.1
3/4"=1'-0"



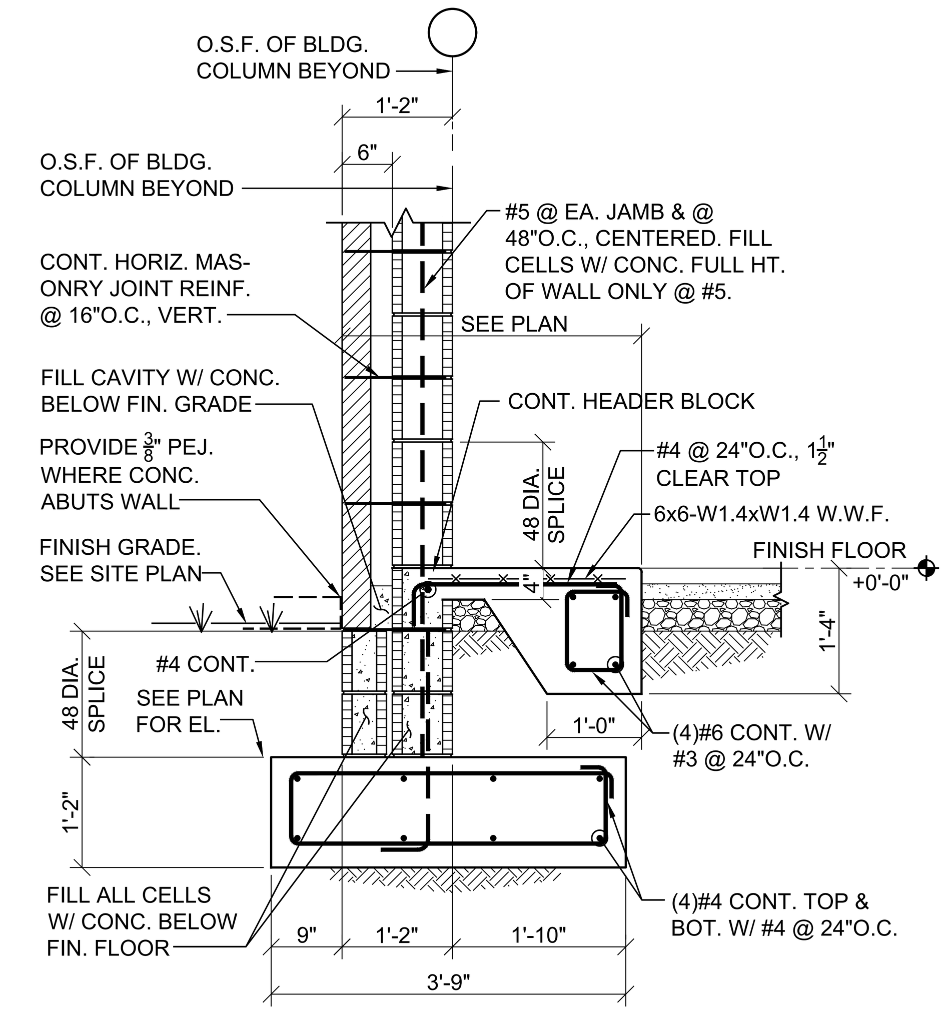
SECTION 3/S0.1
3/4"=1'-0"



SECTION 4/S0.1
3/4"=1'-0"



SECTION 5/S0.1
3/4"=1'-0"



SECTION 6/S0.1
3/4"=1'-0"

FOOTING SCHEDULE

MARK	SIZE	DEPTH	REINFORCEMENT
A	3'-0" x 3'-0"	12"	3-#4 EA. WAY TOP 4-#4 EA. WAY BOT. *
B	3'-6" x 3'-6"	12"	3-#4 EA. WAY TOP 5-#4 EA. WAY BOT. *
C	4'-6" x 4'-6"	12"	4-#4 EA. WAY TOP 6-#4 EA. WAY BOT.
D	5'-6" x 5'-6"	14"	5-#4 EA. WAY TOP 9-#4 EA. WAY BOT.
E	6'-0" x 6'-0"	14"	6-#4 EA. WAY TOP 10-#4 EA. WAY BOT.

* - PROVIDE 180° HOOK EACH END OF BARS

ADDITIONS
TO
ELBERTA HIGH SCHOOL
FOR THE
BALDWIN COUNTY BOARD OF EDUCATION
BAY MINETTE, ALABAMA

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

ALABAMA LICENSED NO. 22214 PROFESSIONAL ENGINEER RICHARD MARK
10-04-23

SHEET TITLE : GENERAL NOTES SCHEDULES TYPICAL DETAILS

MCKEE JOB # : 23.192

DRAWN BY : R. Casey

DATE: 10.04.23

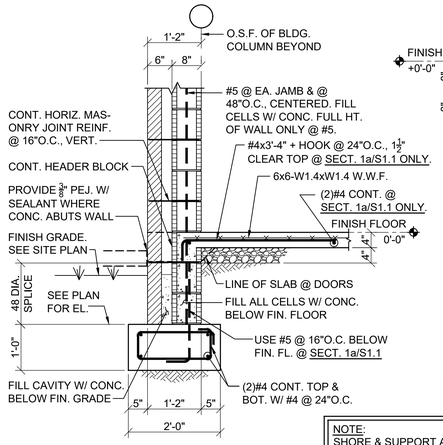
REVISED DATE:

REVISED DATE:

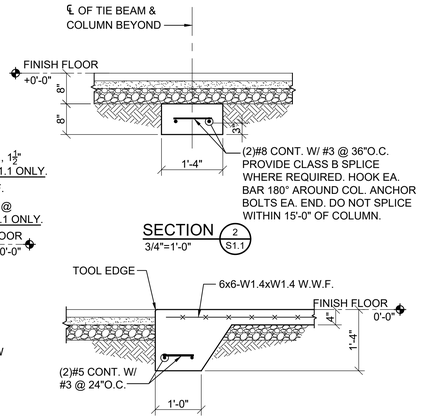
REVISED DATE:

SHEET NO. : S0.1

- S:\MCKEE\Elberta High School Additions - Baldwin County BOE\S-Elberta HS Add'ns - Sections.dwg
- Tuesday, October 3, 2023 10:26:08 AM

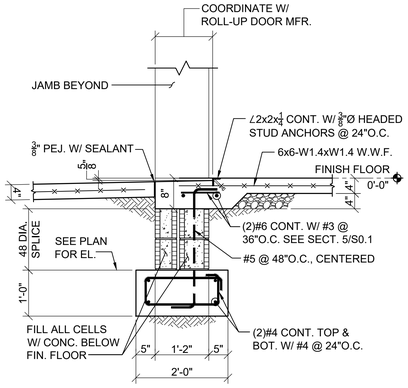


SECTION 1 1a
3/4"=1'-0" S1.1 S1.1

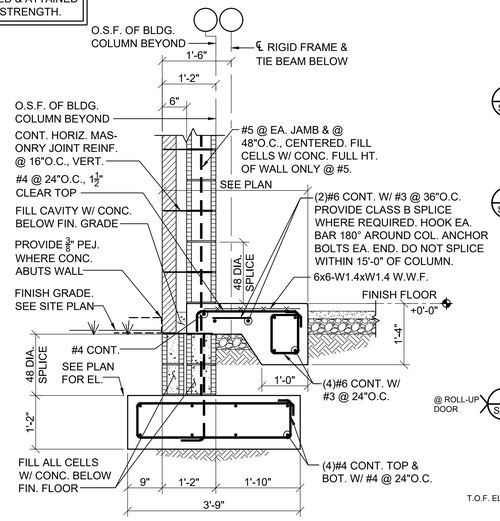


SECTION 2
3/4"=1'-0" S1.1

NOTE:
SHORE & SUPPORT ALL FOUNDATION WALLS AS REQUIRED UNTIL SLAB HAS BEEN POURED & ATTAINED IT'S DESIGN STRENGTH.

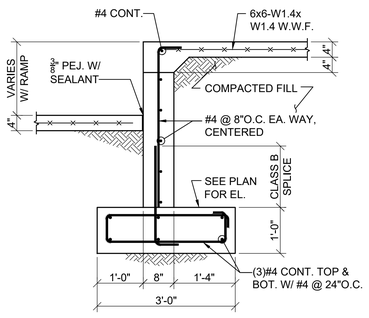


SECTION 4
3/4"=1'-0" S1.1



SECTION 3
3/4"=1'-0" S1.1

SECTION 5
3/4"=1'-0" S1.1



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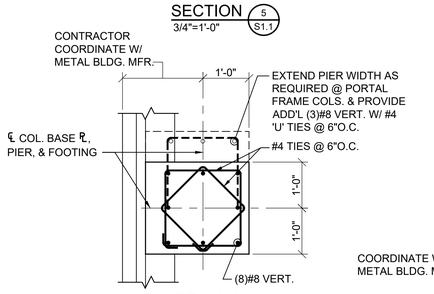
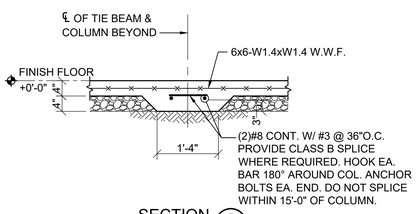


VIEW A-A



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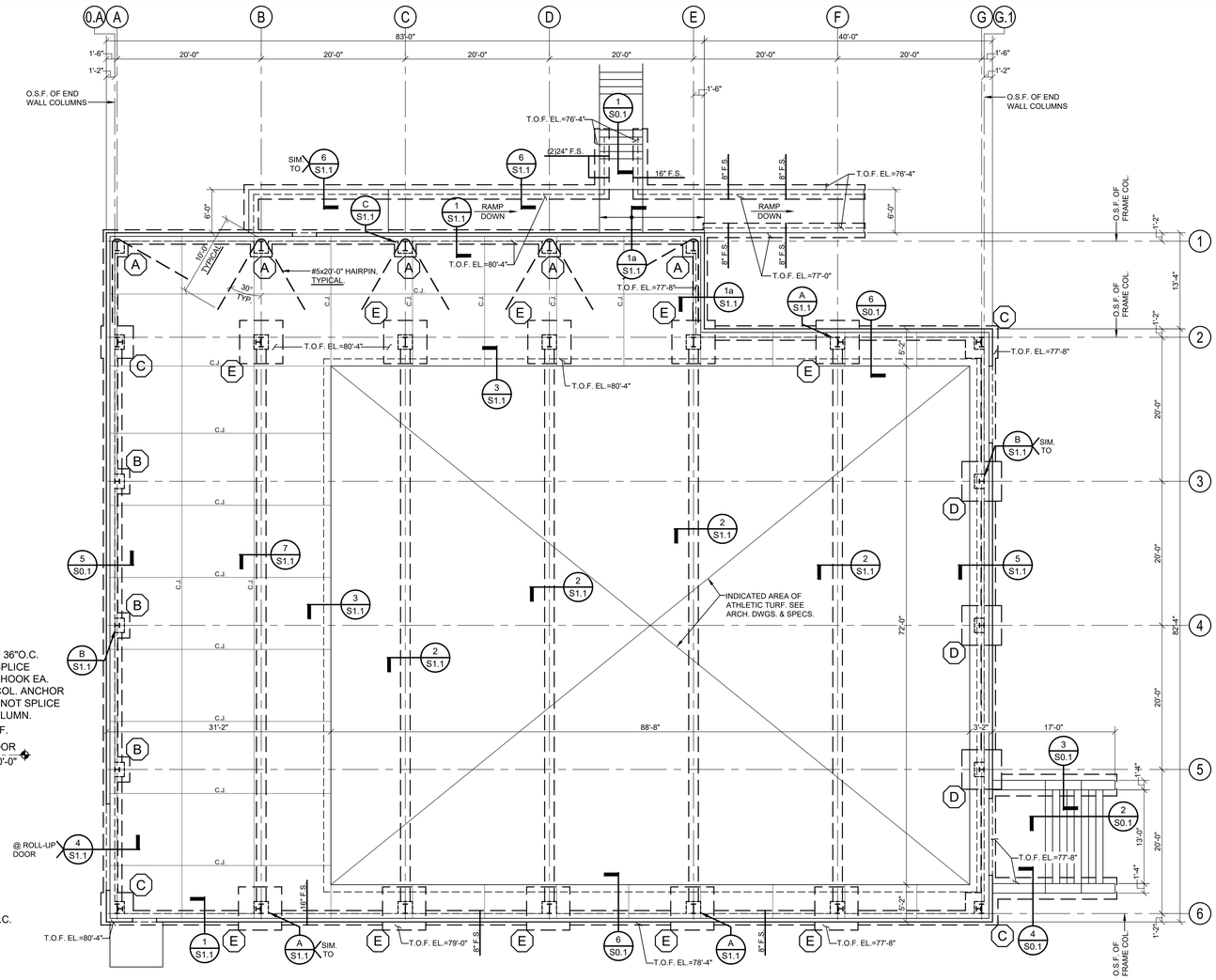


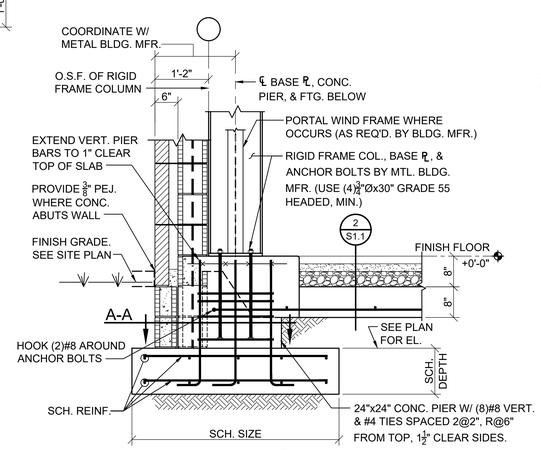
NOTE:
UNLESS NOTED OTHERWISE, TOP OF FOOTING EL.= 80'-4" (-2'-8")

NOTE:
PROVIDE A TYPICAL THICKENED SLAB UNDER ALL C.M.U. PARTITIONS NOT BEARING ON A FOOTING. SEE SHEET S0.1 FOR TYPICAL DETAIL.

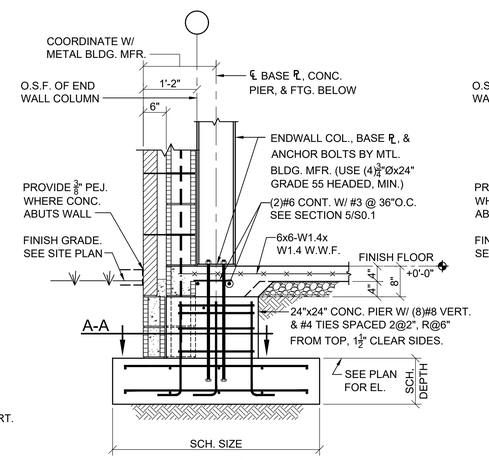
NOTE:
PROVIDE M.C.J.'S @ 25'-4" MAX. SPACING. SEE MASONRY GENERAL NOTES & TYPICAL M.C.J. DETAIL ON SHEET S0.1.

FLOOR CONSTRUCTION
4" THICK CONCRETE SLAB W/ 6x6-W1.4xW1.4 W.W.F. OVER VAPOR BARRIER OVER 4" POROUS FILL.
FINISH FLOOR EL.= 83'-0" (+0'-0")

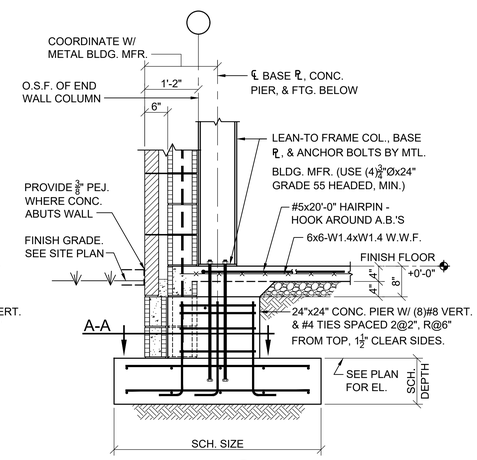
FOUNDATION PLAN
SCALE: 1/8"=1'-0"



DETAIL A
3/4"=1'-0" S1.1



DETAIL B
3/4"=1'-0" S1.1



DETAIL C
3/4"=1'-0" S1.1

ADDITIONS TO ELBERTA HIGH SCHOOL FOR THE BALDWIN COUNTY BOARD OF EDUCATION

BAY MINETTE, ALABAMA

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

STATE OF ALABAMA LICENSED PROFESSIONAL ENGINEER NO. 22214 JEFFREY HAROLD MCKEE
10-04-23

SHEET TITLE :	FOUNDATION PLAN
MCKEE JOB # :	23.192
DRAWN BY :	R. Casey
DATE:	10.04.23
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : S1.1

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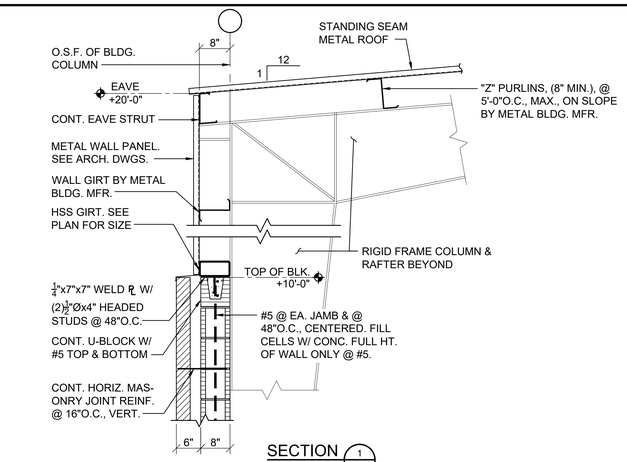
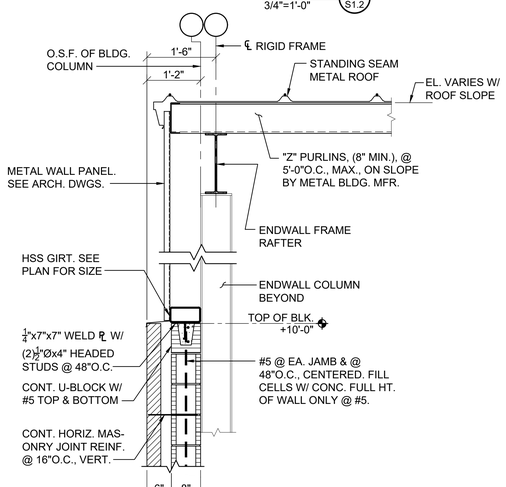


SECTION 1 S1.2
3/4"=1'-0"



SECTION 2 S1.2
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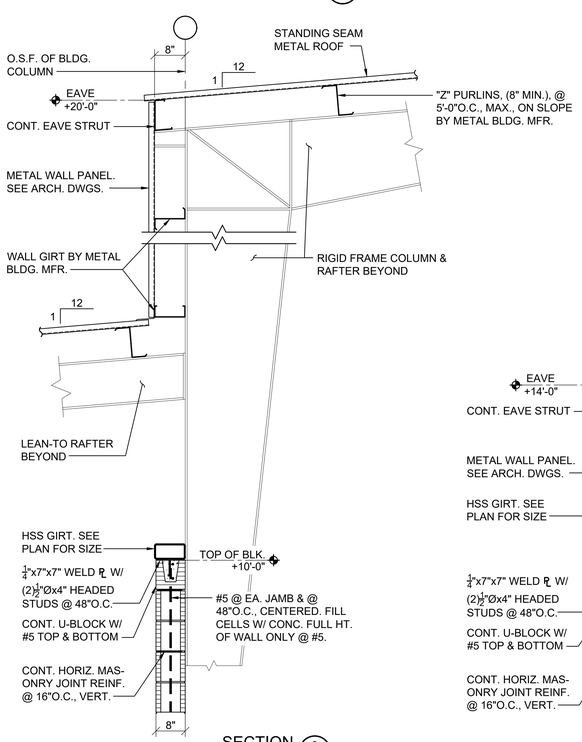

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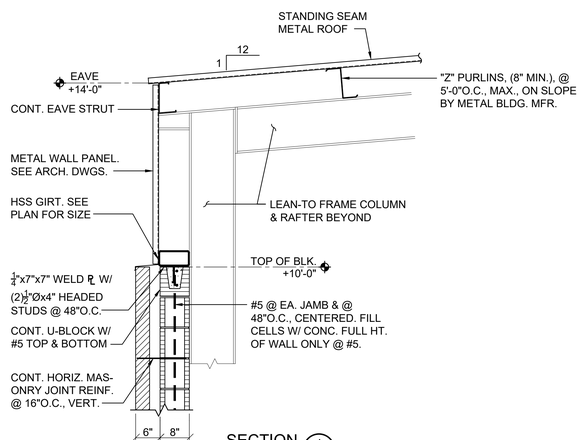

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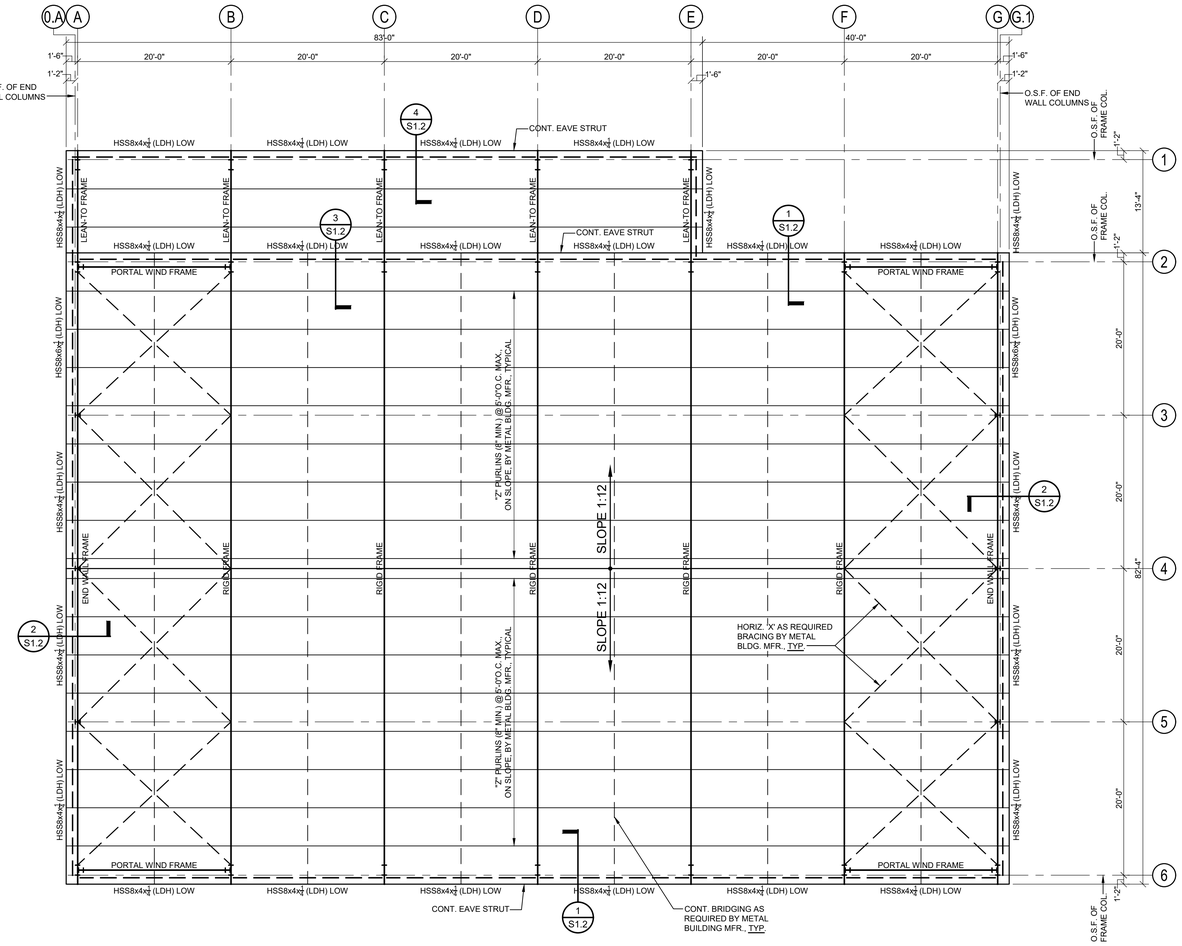

ROOF FRAMING PLAN
SCALE: 1/8"=1'-0"

ADDITIONS TO ELBERTA HIGH SCHOOL FOR THE BALDWIN COUNTY BOARD OF EDUCATION

BAY MINETTE, ALABAMA

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

ALABAMA LICENSED NO. 22214 PROFESSIONAL ARCHITECT RANDALL O. MASSEY
10-04-23

SHEET TITLE :	ROOF FRAMING PLAN
MCKEE JOB # :	23.192
DRAWN BY :	R. Casey
DATE:	10.04.23
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : S1.2

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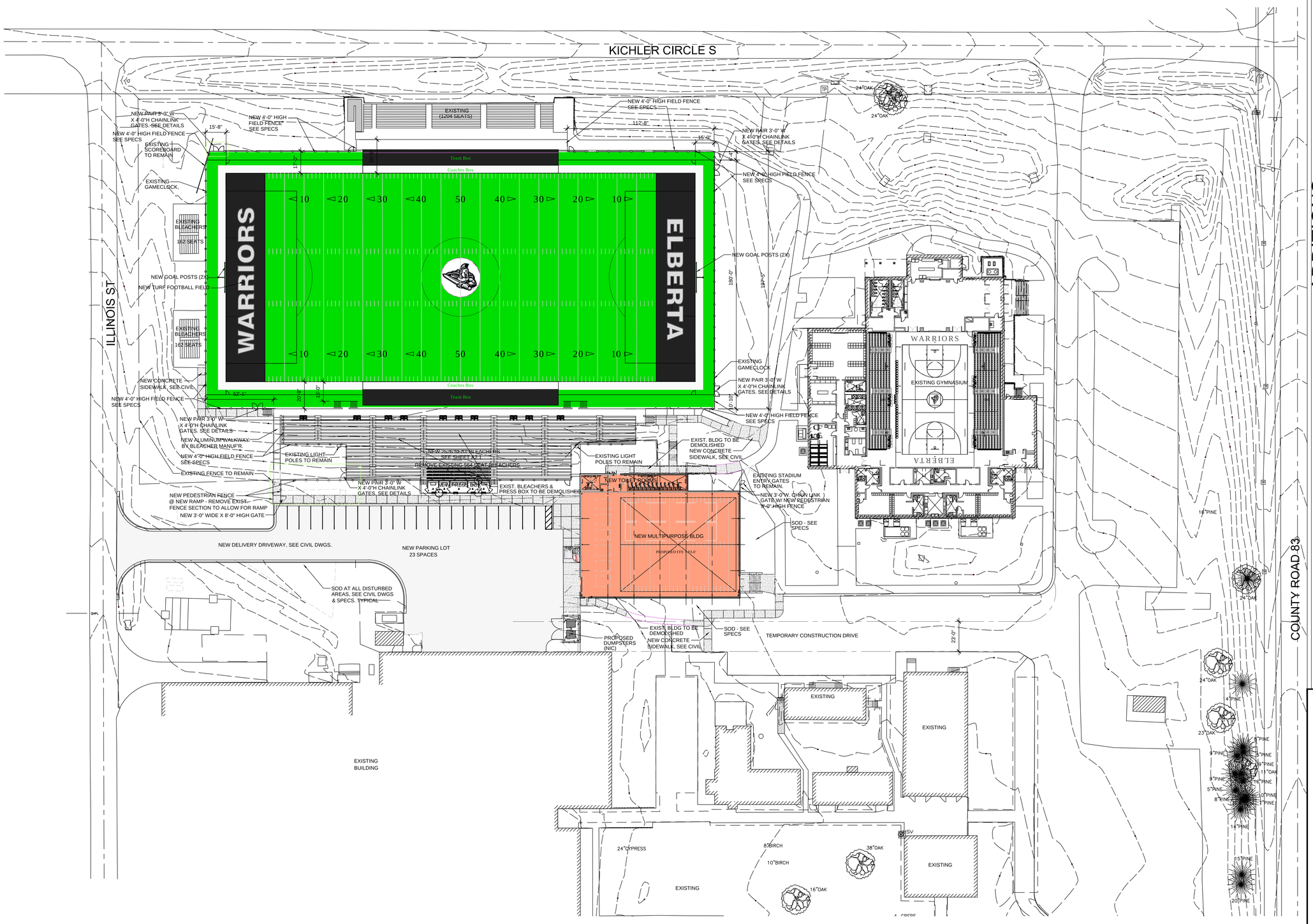


ARCHITECTURAL SITE PLAN

SCALE: 1" = 30'-0"

GENERAL SITE SAFETY PRECAUTION NOTE:
FIRE SAFETY PRECAUTIONS FOR ALL STRUCTURES AND ALL OCCUPANCIES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND DEMOLITION.

ADDITIONS TO ELBERTA HIGH SCHOOL FOR THE BALDWIN COUNTY BOARD OF EDUCATION

BAY MINETTE, ALABAMA

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

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE :	ARCHITECTURAL SITE PLAN
MCKEE JOB # :	23.192
DRAWN BY :	LAB
DATE:	10.4.23
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	
SHEET NO. :	A0.1

- Z:\2023\23-192 Additions to Elberta High School\CAD Drawings\Architectural\A0.1 Arch site plan.dwg
- Wednesday, October 4, 2023 3:08:07 PM

CHAIN LINK FENCE NOTES:

ALL POSTS, GATE FRAMES, BRACES, TOP AND BOTTOM RAILS SHALL HAVE A GALVANIZED CORE: SCH. 40 STEEL PIPE, ALLIED SS PIPE OR OTHER EQUAL. POSTS AND RAILS SHALL NOT BE CUT, SPLICED OR OTHERWISE PIECED TOGETHER. TAPE, CLAMPS OR WIRE SHALL NOT BE USED TO FASTEN OR SECURE POST CAPS, RAIL CAPS OR OTHER FENCE PARTS.
WIRE FABRIC SHALL BE 9ga. GALV. CORE WIRE.

FABRIC SHALL BE 1-3/4" x 1-3/4" DETERMINED BY MEASURING THE MINIMUM CLEAR DISTANCE BETWEEN THE WIRES CREATING PARALLEL SIDES OF THE MESH, MEASURED EITHER DIRECTION.

SUBMIT MILL CERTIFICATES FOR APPROVAL BEFORE SHIPPING MATERIALS.

WIRE MESH FABRIC SHALL BE KNUCKLED AT BOTH TOP AND BOTTOM AND SECURED WITH SPECIFIED WIRE TIES. WIRE TIES SHALL BE TWISTED AT LEAST TWICE ON EACH SIDE, TIGHTLY ROLLED AND CUT OFF SO THAT ENDS STICK OUT NO MORE THAN 1/8" AND FACE AWAY FROM PLAYING AREAS.

WIRE FABRIC SHALL BE PLACE ON THE FIELD SIDE OF POSTS FABRIC SHALL BE TIGHTLY STRETCHED BETWEEN POSTS WITHOUT BOWING SAGGING OR STRETCHING AND IN TRUE STRAIGHT LINES.

POST CAPS: EXPOSED ENDS OF PIPE POSTS SHALL BE FITTED WITH CAPS. THE CAP SHALL FIT SNUGLY AND EXCLUDE MOISTURE FROM THE INNER SURFACE OF THE POST. WHEN TOP RAIL IS PROVIDED, ALL POSTS SHALL BE PROVIDED WITH CAPS HAVING A RING OR HOLE SUITABLE FOR PASSAGE TO THE TOP RAIL. CAPS SHALL BE DOME OR LOOP STYLE MADE OD MALLEABLE STEEL.

RAIL SLEEVES: SHALL ALLOW FOR EXPANSION AND CONTRACTION OF THE RAIL. SLEEVES SHALL BE 6" LONG OR GREATER. UNLESS OTHERWISE SPECIFIED. CONSTRUCTION SHALL BE AT CONTRACTORS OPTION. SWEDGED-END CONNECTIONS ARE NOT ALLOWED.

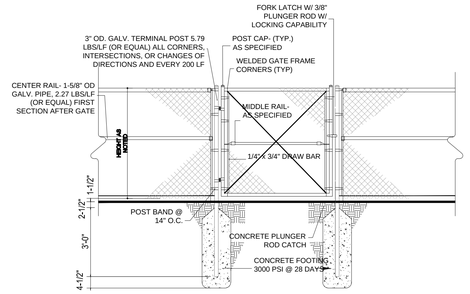
THREADED EYE-BOLTS INSTALLED AT POST BASES TO SUPPORT TENSION WIRE, SHALL BE INSTALLED ONLY ON GATE POSTS, TERMINAL POSTS AND END POSTS.

END POSTS, TERMINAL POSTS, GATE POSTS AND CORNER POSTS SHALL BE 3: O.D. UNLESS OTHER WISE SPECIFIED.

WIRE TIES AND CLIP/HOG RINGS: WIRE TIES AND CLIPS SHALL BE PROVIDED FOR ATTACHING FABRIC TO LINE POSTS, TOP RAILS OR TENSION WIRES. WIRE TIES AND CLIPS SHALL BE AT INTERVALS NOT GREATER THAN 14 " WHEN ATTACHING FABRIC T LINE POSTS AND TOP & BOTTOM RAIL AND TENSION WIRE. WIRE TIES AND CLIPS SHALL BE 9 ga. WIRE. WHEN TENSION WIRE IS USED, WIRE TIES AND CLIPS FOR FASTENING FABRIC TO TENSION WIRE SHALL BE 11 ga. OR GREATER IN DIAMETER.

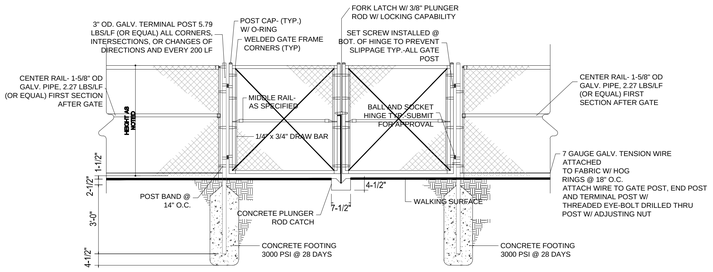
DRAW AND TENSION BARS: DRAW BARS CONNECTING FABRIC TO END GATE, AND CORNER POSTS SHALL BE OF LENGTHS NO LESS THAN 2" LESS THAN THE FULL HEIGHT OF THE REQUIRED CHAIN LINK FABRIC. DRAW BARS SHALL BE THREADED THROUGH THE FABRIC AND ATTACHED TO THE POST BY POST BANDS.

TENSION/DRAW BARS THAT ARE BENT, DEFORMED OR OTHERWISE DAMAGED OT ANY TIME DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE.



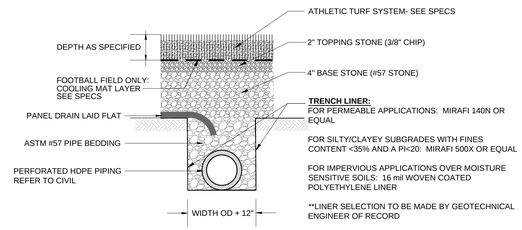
WALK GATE DETAIL

not to scale



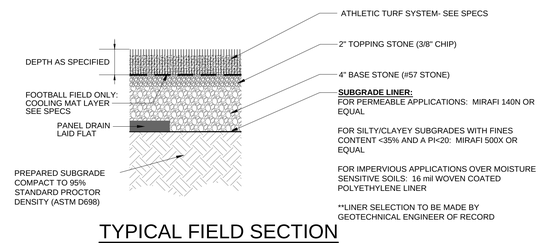
DOUBLE HUNG GATE DETAIL

not to scale



TYPICAL PERIMETER TRENCH SECTION

SCALE: NTS



TYPICAL FIELD SECTION

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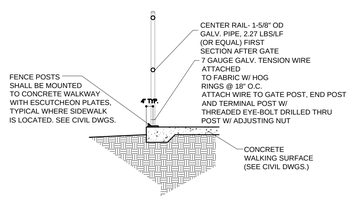
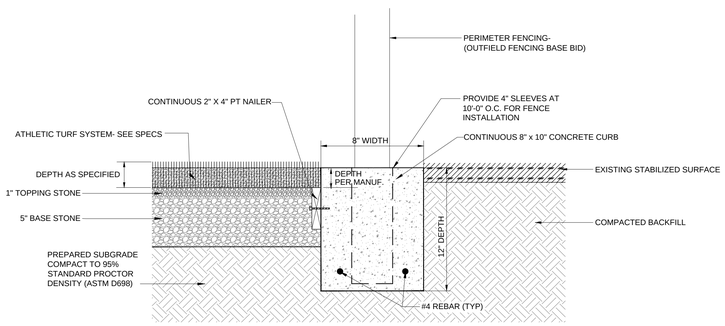


TYPICAL FENCE POST MOUNT DETAIL

not to scale



SYNTHETIC TURF EDGE DETAIL

SCALE: NTS

ADDITIONS TO ELBERTA HIGH SCHOOL FOR THE BALDWIN COUNTY BOARD OF EDUCATION

BAY MINETTE, ALABAMA

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

STATE OF ALABAMA
WALTER T. MCKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : TURF & FENCE DETAILS

MCKEE JOB # : 23.192

DRAWN BY : LAB

DATE: 10.4.23

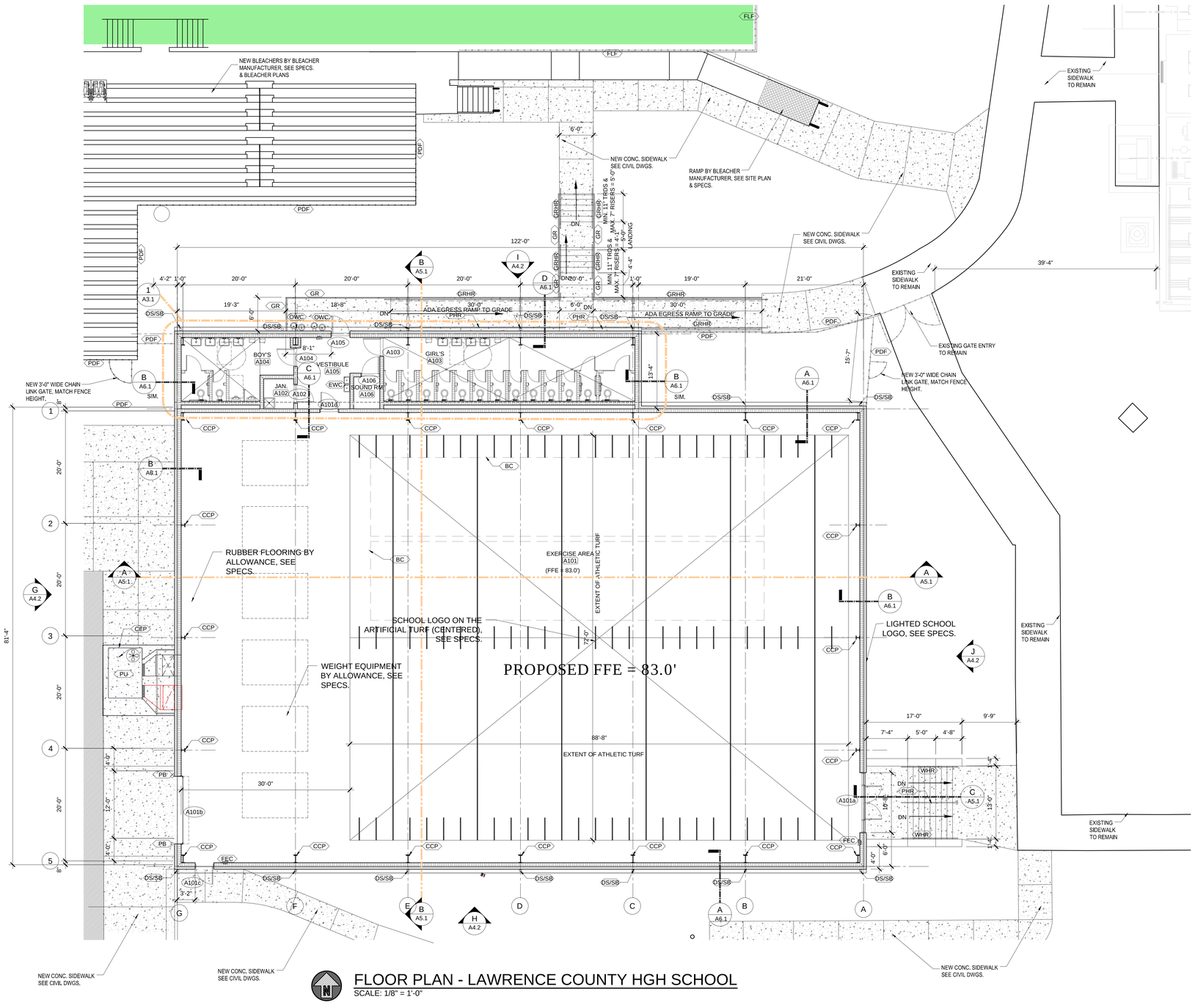
REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : A0.2

- Z:\2023\23-192 Additions to Elberta High School\CAD Drawings\Architectural\A0.2 Turf Details.dwg
- Wednesday, October 4, 2023 9:50:43 AM



FLOOR PLAN - LAWRENCE COUNTY HGH SCHOOL

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

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
A###	SCHEDULED DOOR AND FRAME
CORRIDOR ###	SCHEDULED ROOM NAME AND NUMBER
- AX.X	SECTION / DETAIL SYMBOL
- AX.X	BUILDING SECTION SYMBOL
EWC	ELECTRIC WATER COOLER (SEE DETAIL 2/A6.1)
FEC	FIRE EXTINGUISHER CABINET (SEE DETAIL 3/A6.1)
OS/SB	PREFINISHED METAL DOWNSPOUT TO SPLASHBLOCK
PU	PACKAGE UNIT (SEE MECHANICAL)
CEP	CONCRETE EQUIPMENT PAD (SEE DETAIL 5/A6.1)
PB	PIPE BOLLARD. (SEE DETAIL 1/A6.1)
BC	BATTING CAGE, SEE SPECS
CS	CONCRETE STOOP
CCP	COLUMN CRASH PAD SEE SPECS.
GR	METAL GUARDRAIL, SEE SHT. A9.2
PHR	POST MOUNTED HANDRAILS, SEE SHT. A9.2
WHR	WALL MOUNTED HANDRAILS, SEE SHT. A9.2
GRHR	HANDRAIL & GUARDRAIL, SEE SHT. A9.2
PDF	PEDESTRIAN CHAIN LINK FENCE, SEE SPECS
FLF	FIELD CHAIN LINK FENCE, SEE SPECS

WALL PARTITION NOTE:
ALL MASONRY WALL PARTITIONS ARE TO BE 8" CMU 10'-0" HIGH UNLESS NOTED OTHERWISE.

ADDITIONS TO ELBERTA HIGH SCHOOL FOR THE BALDWIN COUNTY BOARD OF EDUCATION

BAY MINETTE, ALABAMA

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

STATE OF ALABAMA
WALTER T. MCKEE, JR.
No. 1092
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE :	FLOOR PLAN
MCKEE JOB # :	23.192
DRAWN BY :	LAB
DATE:	10.4.23
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : A1.1

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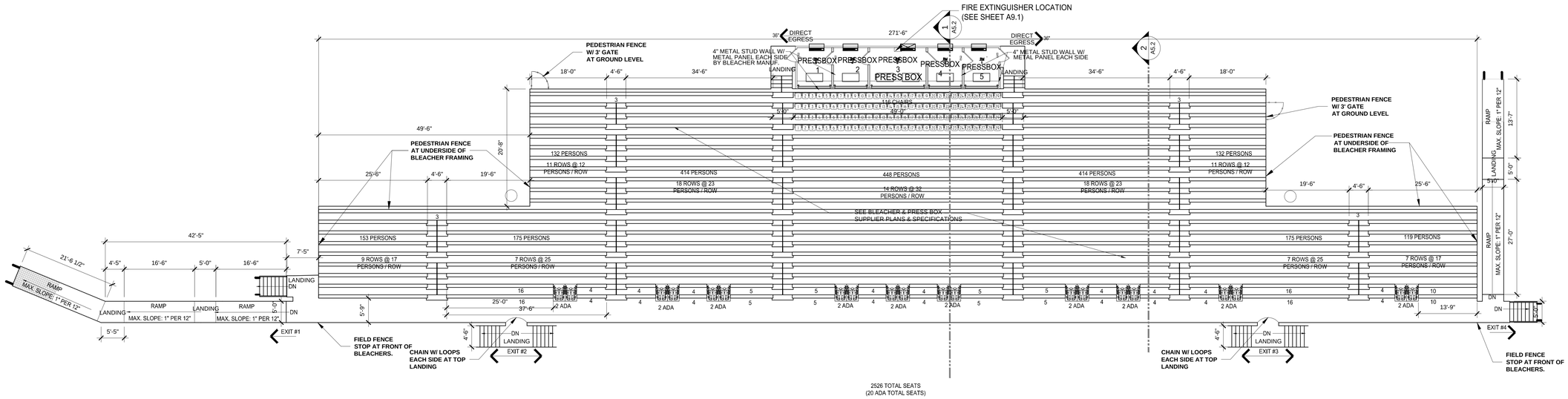

NOTE: SEE SHEET A0.2 FOR GATE DETAILS

PLAN NORTH

HOME GRANDSTANDS FLOOR PLAN

SCALE: 3/32"=1'-0"

GRAPHIC SCALE

1' 3' 5' 10' 15'

EGRESS CALCULATIONS

EGRESS REQUIREMENTS PER ICC-300 (2012)

HOME SEATING CAPACITY=2526 + 32 (PRESS BOX) = 2522 TOTAL

CROSS AISLE WIDTH (TABLE 404.5(3))
- .06" PER PERSON PER SEAT SERVED REQUIRED
- 2526 PERSONS / 4 CROSS AISLE EXITS= 631 PERSONS PER EXIT
- .06" x 631= 37.86" CALCULATED MINIMUM CROSS AISLE WIDTH REQUIRED
- 68" CLEAR CROSS AISLE WIDTH PROVIDED

AISLE WIDTH WITH SEATING BOTH SIDES (TABLE 404.5(3))
- .08" PER PERSON PER SEAT SERVED REQUIRED
- 1742 PERSONS x .08"= 23.2" CALCULATED MINIMUM AISLE WIDTH REQUIRED
- 48" MINIMUM AISLE WIDTH REQUIRED PER 405.2.1
- 48" CLEAR AISLE WIDTH PROVIDED

AISLE WIDTH WITH SEATING ONE SIDES (TABLE 404.5(3))
- .06" PER PERSON PER SEAT SERVED REQUIRED
- 536 PERSONS x .06"= 32.16" CALCULATED MINIMUM AISLE WIDTH REQUIRED
- 36" MINIMUM AISLE WIDTH REQUIRED PER 405.2.2
- 36" CLEAR AISLE WIDTH PROVIDED

AISLE ACCESS WIDTH (TABLE 407.3)
- AISLE ACCESS WIDTH SHALL BE A MINIMUM OF 12" CLEAR + .3" FOR EVERY SEAT OVER 14
- SEATS PER AISLE= 32
- REQUIRED MINIMUM AISLE ACCESS WIDTH= 12+20x.3= 9.6"
- PROVIDED AISLE ACCESS WIDTH= 30"

ADDITIONS TO ELBERTA HIGH SCHOOL FOR THE BALDWIN COUNTY BOARD OF EDUCATION
BAY MINETTE, ALABAMA

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

STATE OF ALABAMA
WALTER T. MCKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : BLEACHER PLAN

MCKEE JOB # : 23.192

DRAWN BY : LAB

DATE: 10.4.23

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : A2.1

- Z:\2023\23-192 Additions to Elberta High School\CAD Drawings\Architectural\A2.1 BLEACHER PLAN.dwg
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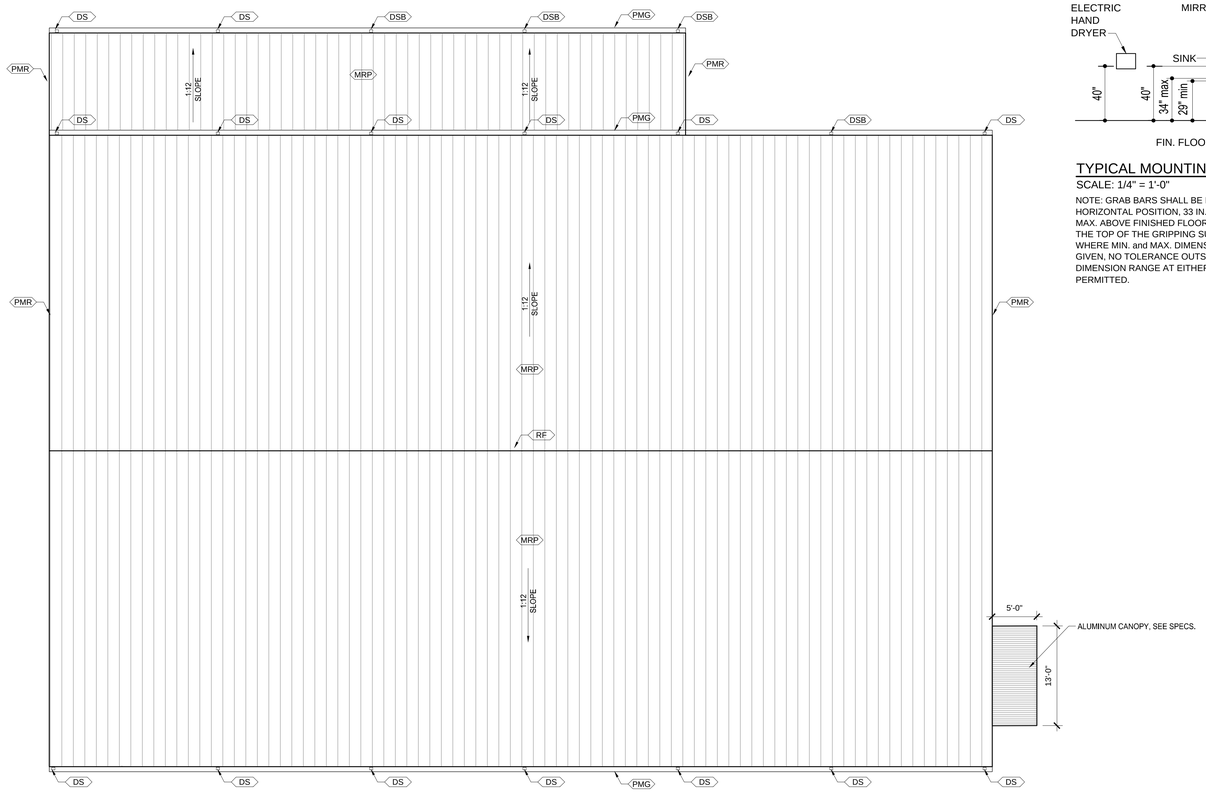
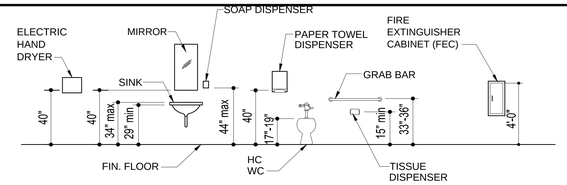
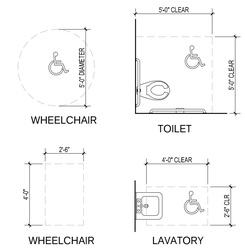


TYPICAL ROOF PLAN
SCALE: 1/8" = 1'-0"



TYPICAL MOUNTING HEIGHTS
SCALE: 1/4" = 1'-0"

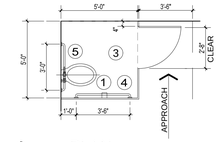
NOTE: GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION, 33 IN. MIN. and 36 IN. MAX. ABOVE FINISHED FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE. WHERE MIN. and MAX. DIMENSIONS ARE GIVEN, NO TOLERANCE OUTSIDE OF THE DIMENSION RANGE AT EITHER END POINT IS PERMITTED.



TYPICAL HANDICAP CLEAR FLOOR SPACES
SCALE: 1/4"=1'-0"

KEY NOTES

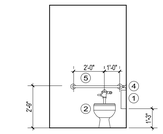
1. TOILET PAPER DISPENSER SHALL BE 7 IN. MIN. and 9 IN. MAX. IN FRONT OF WATER CLOSET MEASURED TO CENTERLINE OF DISPENSER. THE DISPENSER OUTLET SHALL BE 15 IN. MIN. and 48 IN. MAX. ABOVE FLOOR and NOT BE LOCATED BEHIND GRAB BARS.
2. WATER CLOSET HEIGHT TO BE 17 IN. TO 19 IN. MEASURED TO TOP OF SEAT.
3. WHEELCHAIR ACCESSIBLE STALLS SHALL BE 60" MINIMUM DEPTH AND WIDTH WITH 32" MINIMUM WIDTH DOOR THAT SWINGS OUT. CENTER LINE OF WATER CLOSET TO BE 16" TO 18" FROM NEAR WALL.
4. A HORIZONTAL SIDE WALL GRAB BAR 42" LONG MINIMUM, LOCATED 12" MAX. FROM REAR WALL AND EXTENDING 54" MINIMUM FROM REAR WALL.
5. THE REAR WALL GRAB BAR SHALL BE 24 IN. LONG MIN., CENTERED ON THE WATER CLOSET. WHERE SPACE PERMITS, THE BAR SHALL BE 36 IN. LONG MIN. WITH THE ADDITIONAL LENGTH PROVIDED ON THE TRANSFER SIDE OF THE WATER CLOSET.
6. GRAB BARS SHALL BE INSTALLED IN ANY MANNER THAT PROVIDES A GRIPPING SURFACE (TOP) AT THE LOCATION SHOWN AND DOES NOT OBSTRUCT THE CLEAR FLOOR SPACE.
7. COAT HOOKS PROVIDED WITHIN TOILET ROOMS SHALL BE 48 " MAX. ABOVE THE FLOOR. WHERE PROVIDED A FOLD DOWN SHELF SHALL BE 40" MIN. and 48" MAX. ABOVE FLOOR.
8. WHERE MIN. and MAX. DIMENSIONS ARE GIVEN, NO TOLERANCE OUTSIDE OF THE DIMENSION RANGE AT EITHER END POINT IS PERMITTED.



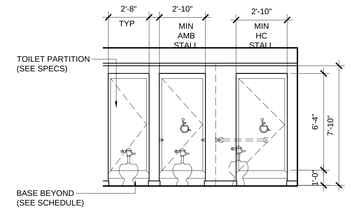
PLAN
WHEELCHAIR ACCESSIBLE TOILET
SCALE: 1/4" = 1'-0"

NOTE: THE CENTERLINE OF THE WATER CLOSET SHALL BE 16" MIN. AND 18" MAX. FROM THE SIDE WALL OR PARTITION.

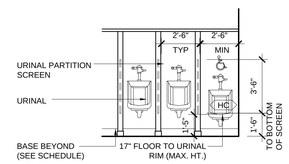
DOORWAYS SHALL HAVE A CLEAR OPENING OF 32" MINIMUM. CLEAR OPENING OF DOOR-WAYS WITH SWING DOORS SHALL BE MEASURED BETWEEN FACE OF DOOR AND STOP, WITH THE DOOR OPEN 90 DEGREES.



ELEVATION
WHEELCHAIR ACCESSIBLE TOILET
SCALE: 1/4" = 1'-0"



TYPICAL TOILET SCREEN PARTITION ELEVATION
SCALE: 1/4" - 1'-0"



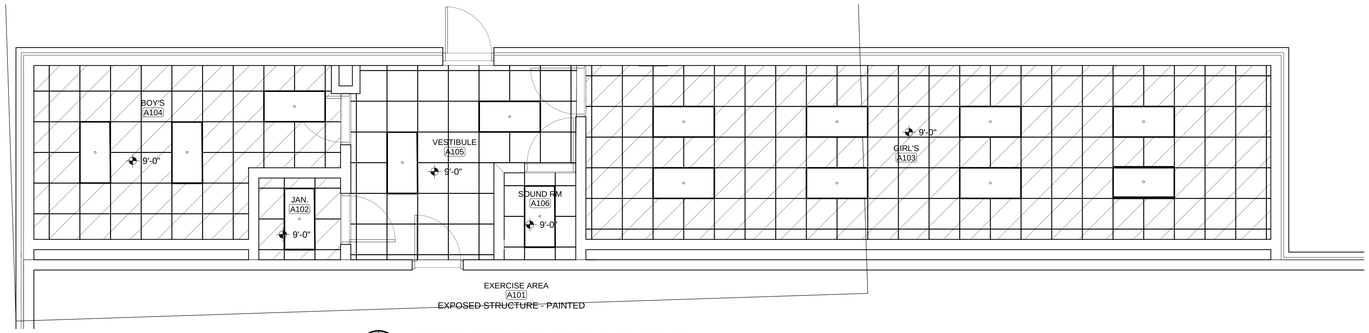
TYPICAL URINAL SCREEN PARTITION ELEVATION
SCALE: 1/4" - 1'-0"

ROOF PLAN LEGEND

SYMBOL	DESCRIPTION
MRP	METAL ROOF PANELS
RF	RIDGE FLASHING - NON VENTED
PMG	PREFINISHED METAL GUTTER
PMR	PREFINISHED METAL RAKE TRIM
PV	PLUMBING VENT (SEE MECHANICAL)
EF	EXHAUST FAN (SEE DETAIL MECHANICAL)
DS	PREFINISHED METAL DOWNSPOUT
DSB	PREFINISHED METAL DOWNSPOUT TO BOOT, SEE CIVIL DWGS. & SPECS.

REFLECTED CEILING PLAN LEGEND

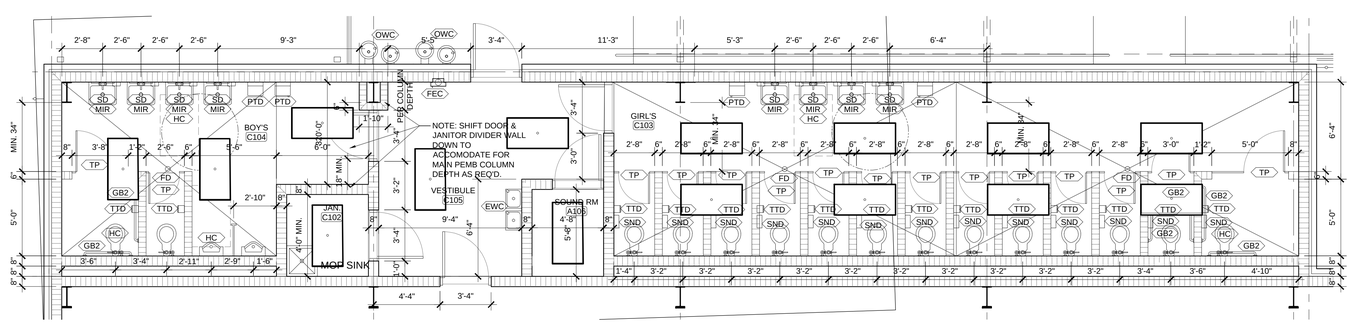
SYMBOL	DESCRIPTION
0'-0"	HEIGHT ABOVE FINISHED FLOOR ELEVATION
	ALUMINUM CANOPY, SEE SPECS.
	2'x2' LAY-IN ACOUSTICAL CEILING, SEE SPECS
	2'x2' VINYL CLAD LAY-IN ACOUSTICAL CEILING, SEE SPECS
	SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
	2'x4' RECESSED OR SURFACE MOUNTED LIGHT FIXTURE (SEE ELECTRICAL)
	CASSETTE HEAT PUMP (SEE MECHANICAL)
	EXHAUST FAN GRILLE (SEE MECHANICAL)



REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES LEGEND

KEYNOTE	DESCRIPTION
EHD	ELECTRIC HAND DRYER TO BE MOUNTED 48" OC AFF (SEE SPECS)
PTD	PAPER TOWEL DISPENSER TO BE MOUNTED 48" OC AFF (SEE SPECS)
SD	SOAP DISPENSER TO BE MOUNTED WHERE HAND CONTROLS ARE 48" OC AFF (BY OWNER)
GB1	36" GRAB BAR MOUNTED WHERE CENTERLINE OF WALL MOUNT IS 6" OUT FROM CORNER OF WALL / TOILET PARTITION AND IS TO BE 33"-36" AFF (SEE SPECS)
GB2	42" GRAB BAR MOUNTED WHERE CENTERLINE OF WALL MOUNT IS 12" OUT FROM CORNER OF WALL / TOILET PARTITION AND IS TO BE 33"-36" AFF (SEE SPECS)
MIR	18" X 36" MIRROR WITH SHELF TO BE MOUNTED WITH THE BOTTOM EDGE 35" AFF AND THE TOP EDGE 71" AFF (SEE SPECS)
HC	HANDICAPPED ACCESSIBLE TOILET / URINAL TO BE MOUNTED 17" AFF
TTD	TOILET TISSUE DISPENSER TO BE MOUNTED 8" OC IN FRONT OF TOILET AND OUTLET OF DISPENSER MUST BE BETWEEN 15" & 48" AFF (BY OWNER)
EWC	ELECTRIC WATER COOLER (SEE DETAIL 2/A6.1)
OWC	ELECTRIC WATER COOLER (SEE DETAIL 2/A6.1)
FD	FLOOR DRAIN (SEE PLUMBING)
TP	TOILET PARTITION DOOR AND PARTITION (SEE SPECS)
SND	SANITARY NAPKIN DISPENSER (SEE SPECS)



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

WALL PARTITION NOTE:
ALL MASONRY WALL PARTITIONS ARE TO BE 8" CMU -10'-0" HIGH UNLESS NOTED OTHERWISE.

ADDITIONS TO ELBERTA HIGH SCHOOL FOR THE BALDWIN COUNTY BOARD OF EDUCATION
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STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : ROOF PLAN, TYP. ENLARGED TOILET PLAN and DETAILS

MCKEE JOB # : 23.192

DRAWN BY : LAB

DATE: 10.4.23

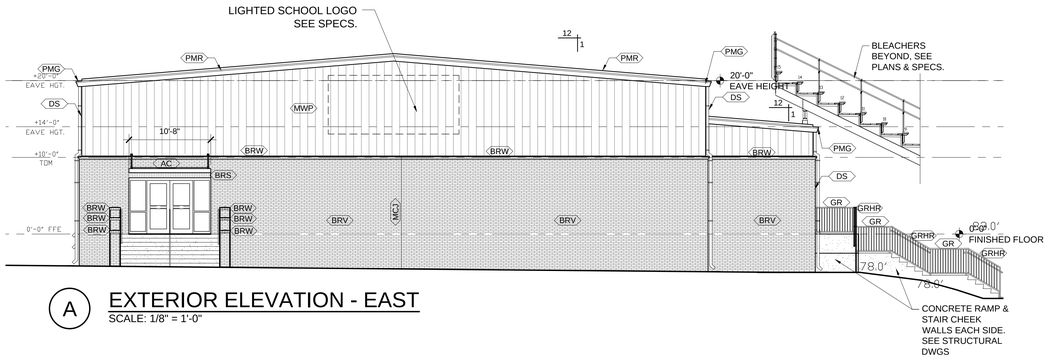
REVISED DATE:

REVISED DATE:

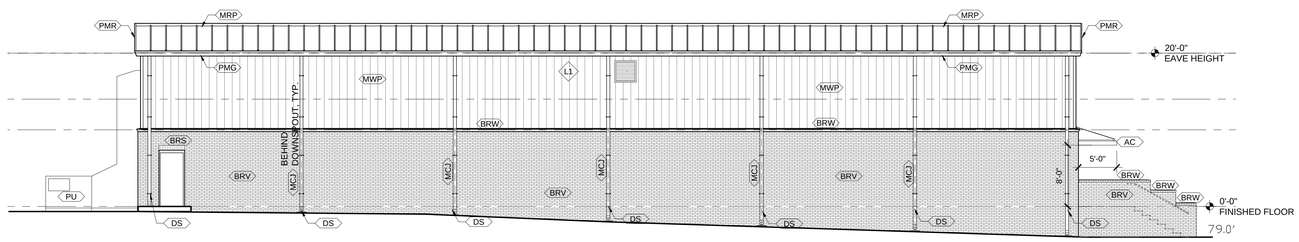
REVISED DATE:

SHEET NO. : A3.1

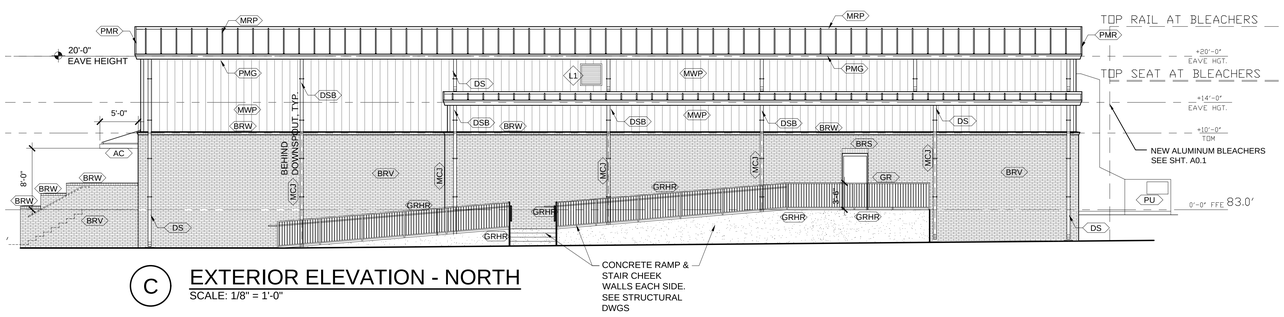
- Z:\2023\23-192 Additions to Elberta High School\CAD Drawings\Architectural\A3.1 Roof Plan-MP.dwg
- Wednesday, October 4, 2023 10:16:11 AM



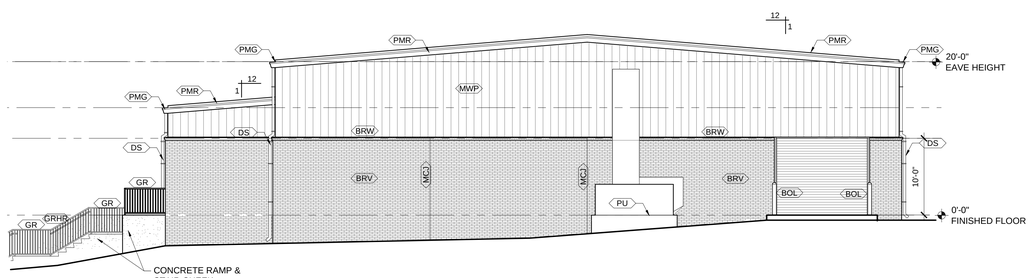
A EXTERIOR ELEVATION - EAST
SCALE: 1/8" = 1'-0"



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



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



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

EXTERIOR ELEVATION LEGEND

SYMBOL	DESCRIPTION
A.X	BUILDING SECTION SYMBOL
L1	METAL LOUVER - SEE MECHANICAL
DS	PREFINISHED METAL DOWNSPOUT TO SPLASHBLOCK
MWP	METAL WALL PANELS - SEE SPECS
MRP	METAL ROOF PANELS - SEE SPECS
BOL	PIPE BOLLARD
PMG	PREFINISHED METAL GUTTER
PMR	PREFINISHED METAL RAKE TRIM
AC	SUSPENDED ALUMINUM AWNING
PU	PACKAGE UNIT (SEE MECHANICAL)
BRV	BRICK VENEER - SEE SPECS
BRW	BRICK VENEER ROWLOCK SILL - SEE SPECS
MCJ	MASONRY CONTROL JOINT, SEE DETAILS
BRS	BRICK VENEER SOLDIER - SEE SPECS

ADDITIONS
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STATE OF ALABAMA
WALTER T. MCKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : EXTERIOR ELEVATIONS

MCKEE JOB # : 23.192

DRAWN BY : LAB

DATE: 10.4.23

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : A4.0

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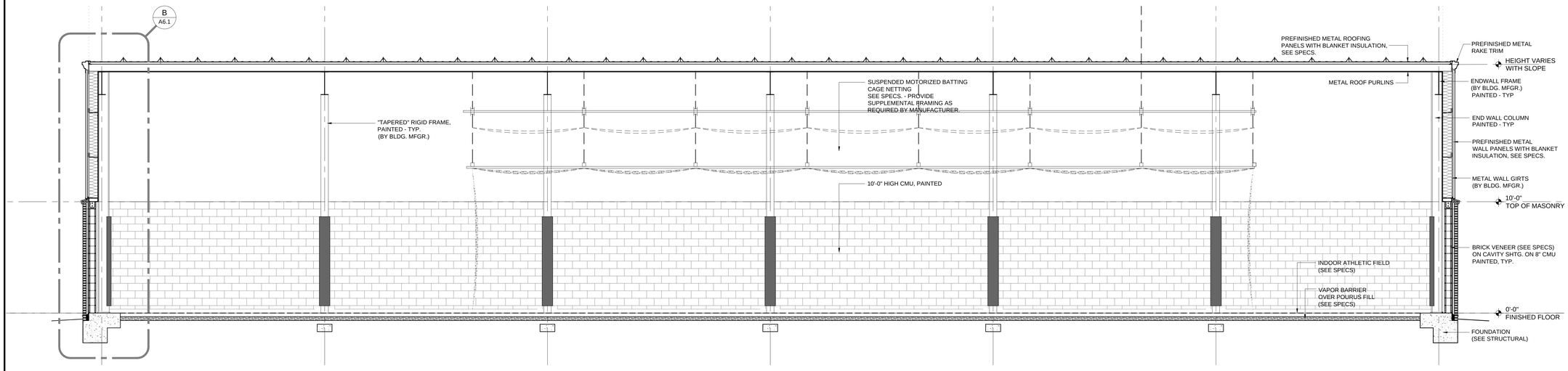
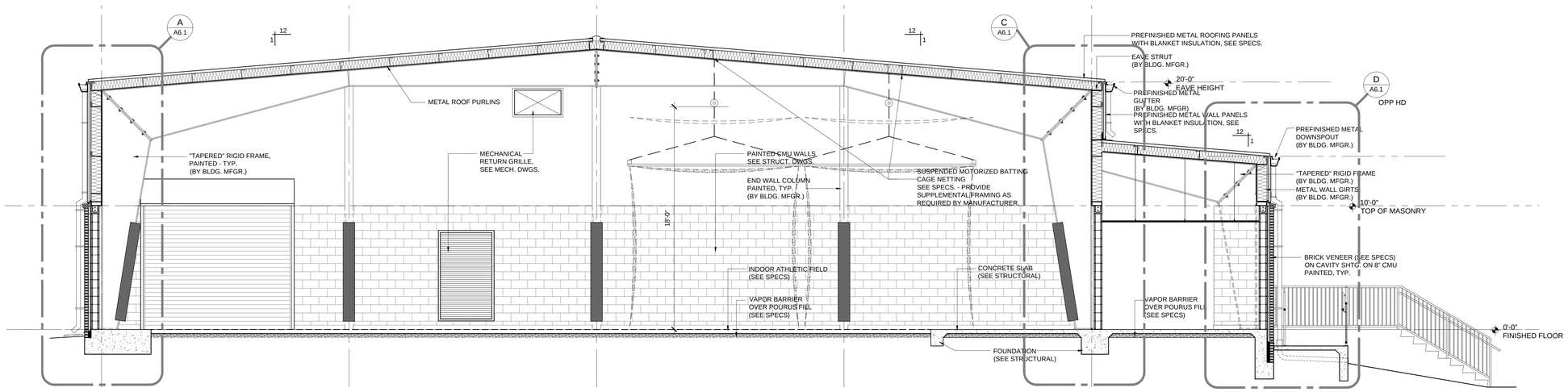
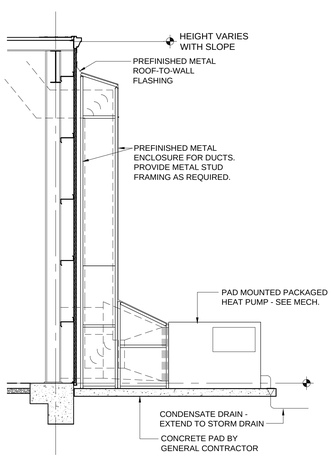


A BUILDING SECTION
SCALE: 1/4" = 1'-0"



B BUILDING SECTION
SCALE: 1/4" = 1'-0"



C SECTION DETAIL
SCALE: 1/4" = 1'-0"

ADDITIONS TO ELBERTA HIGH SCHOOL FOR THE BALDWIN COUNTY BOARD OF EDUCATION
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STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : BUILDING SECTIONS

MCKEE JOB # : 23.192

DRAWN BY : LAB

DATE: 10.4.23

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : A5.1

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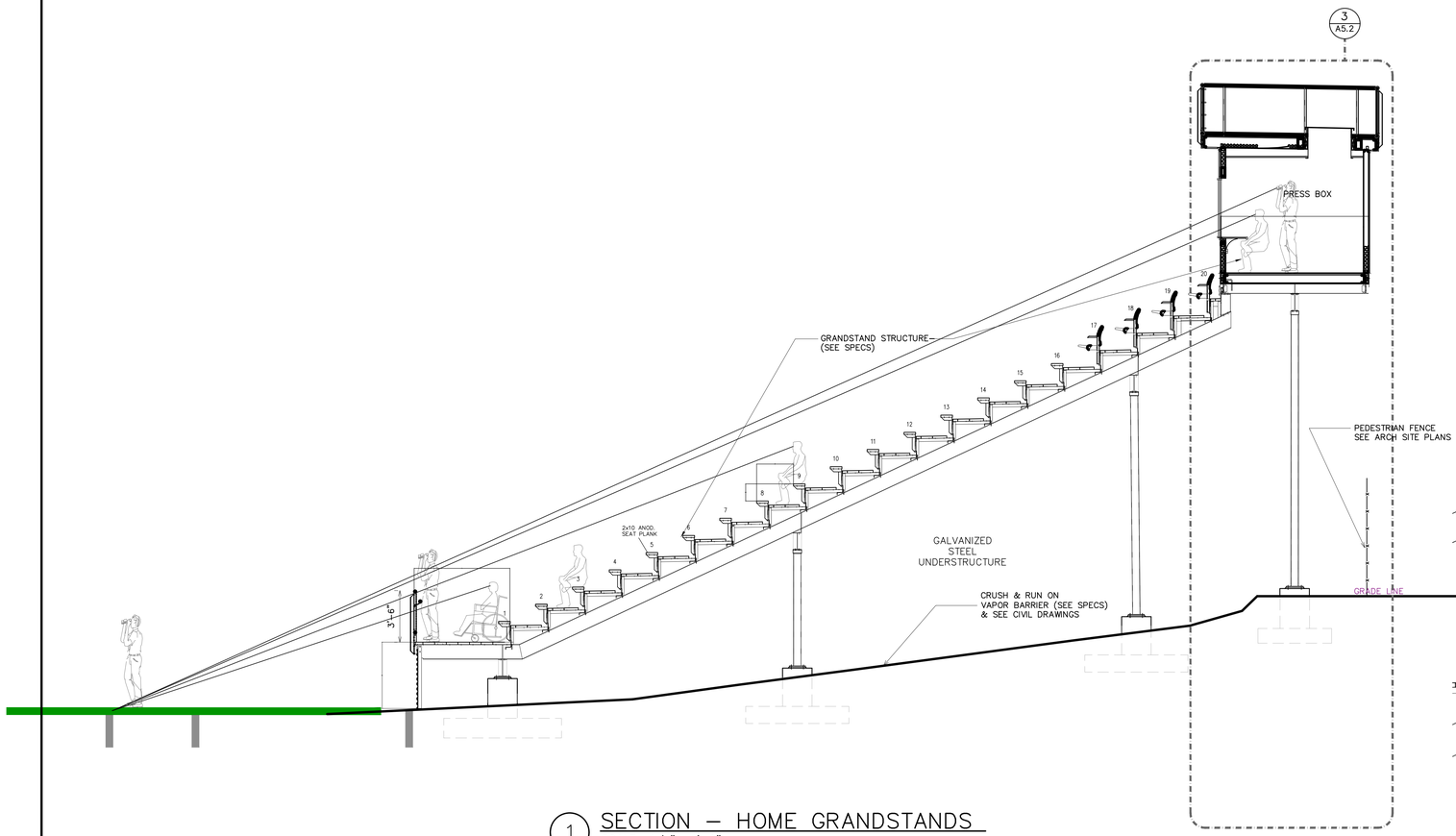
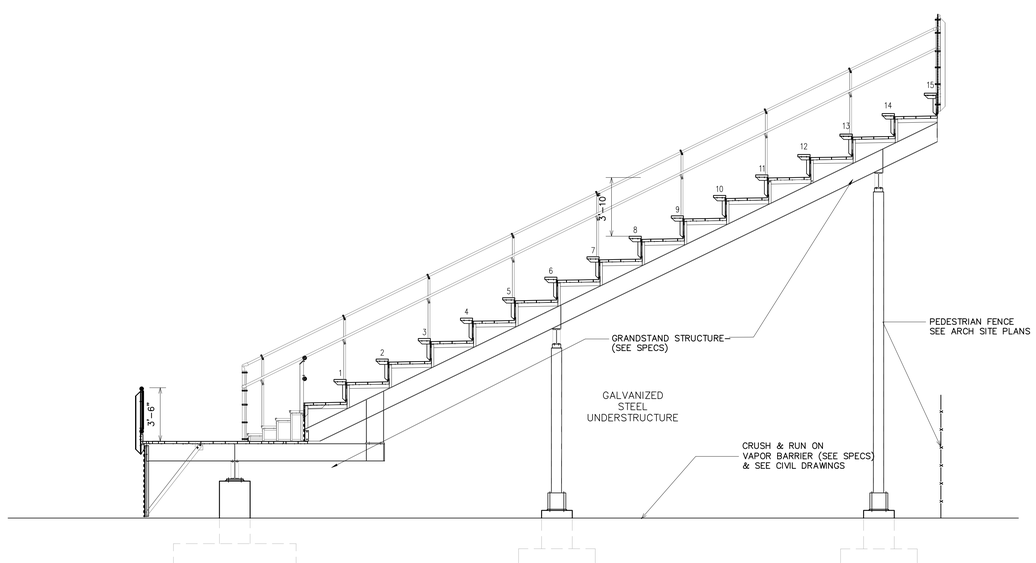
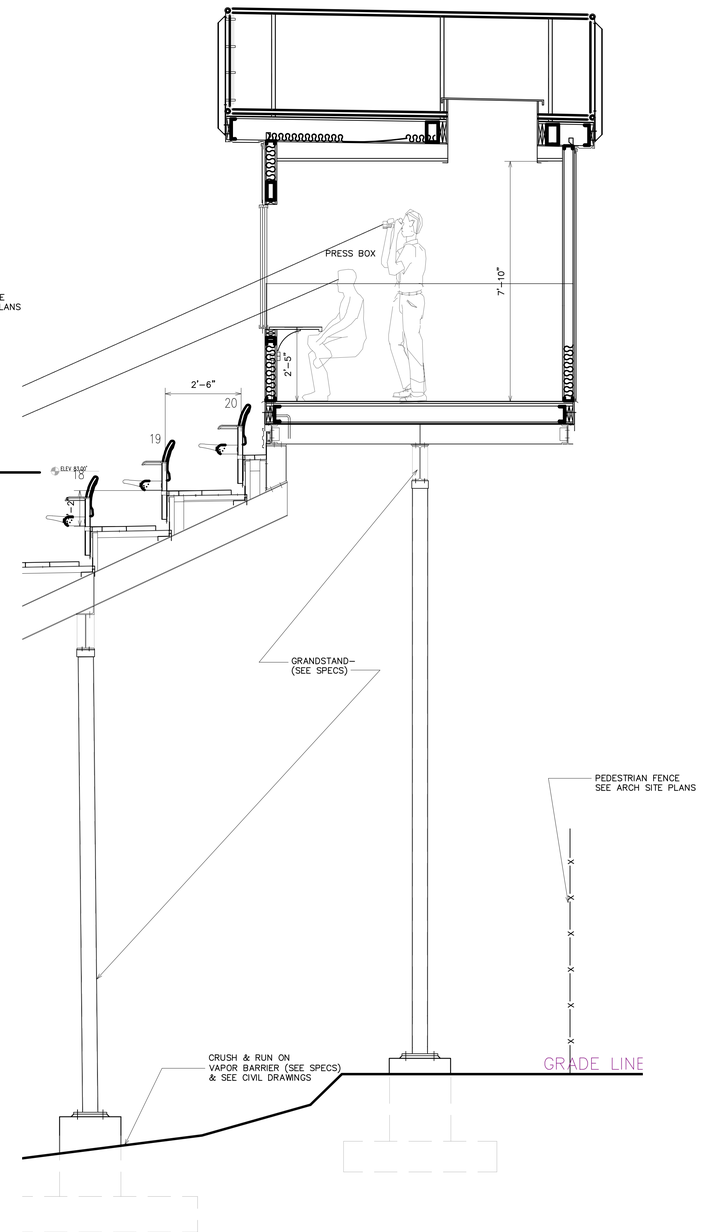


1 SECTION – HOME GRANDSTANDS
SCALE: 1/4"= 1'-0"



2 SECTION – HOME GRANDSTAND
SCALE: 1/4"= 1'-0"



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

ADDITIONS
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STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE :	BLEACHER HOME SIDE GRANDSTAND SECTIONS
MCKEE JOB # :	23.192
DRAWN BY :	LAB
DATE:	10.4.23
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : A5.2

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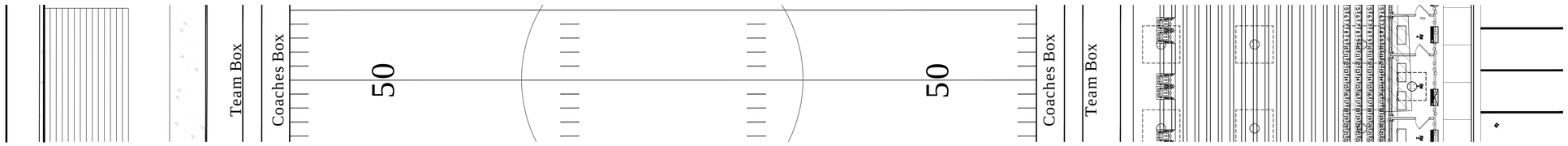
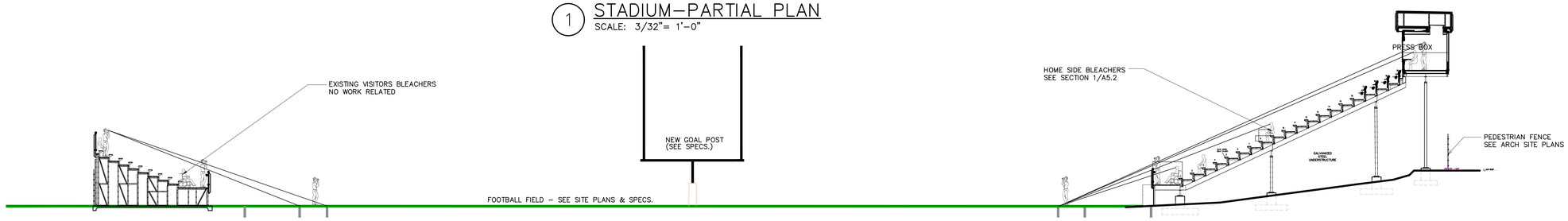


1 STADIUM–PARTIAL PLAN
SCALE: 3/32"= 1'–0"



2 STADIUM CROSS SECTION
SCALE: 3/32"= 1'–0"

ADDITIONS
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BAY MINETTE, ALABAMA

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STATE OF ALABAMA
WALTER T. MCKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : STADIUM SECTION AND VISITOR SIDE SECTION

MCKEE JOB # : 23.192

DRAWN BY : LAB

DATE: 10.4.23

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : A5.3

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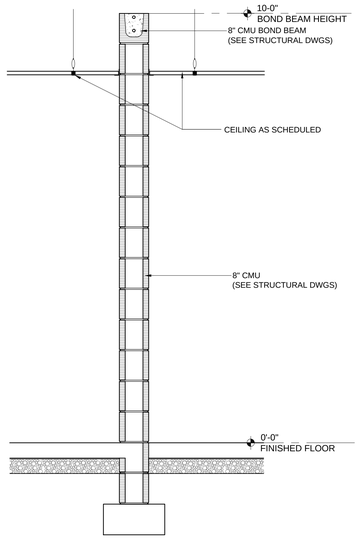
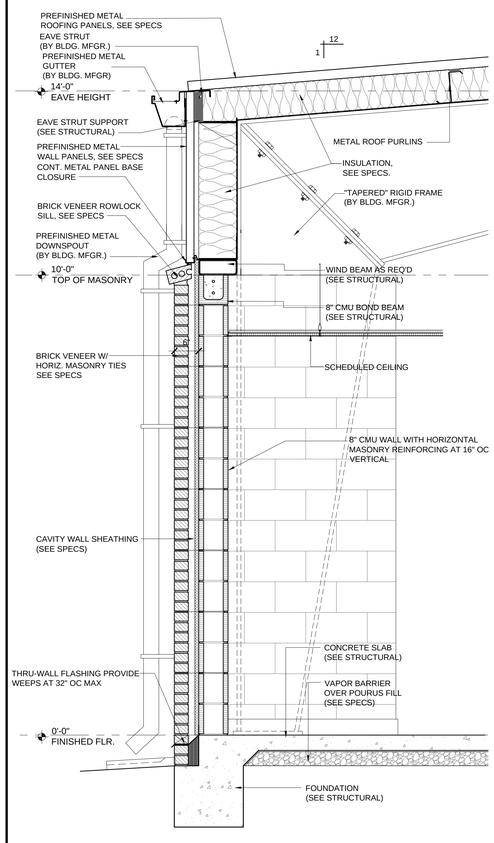
- Wednesday, October 4, 2023 10:32:22 AM



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



D WALL SECTION
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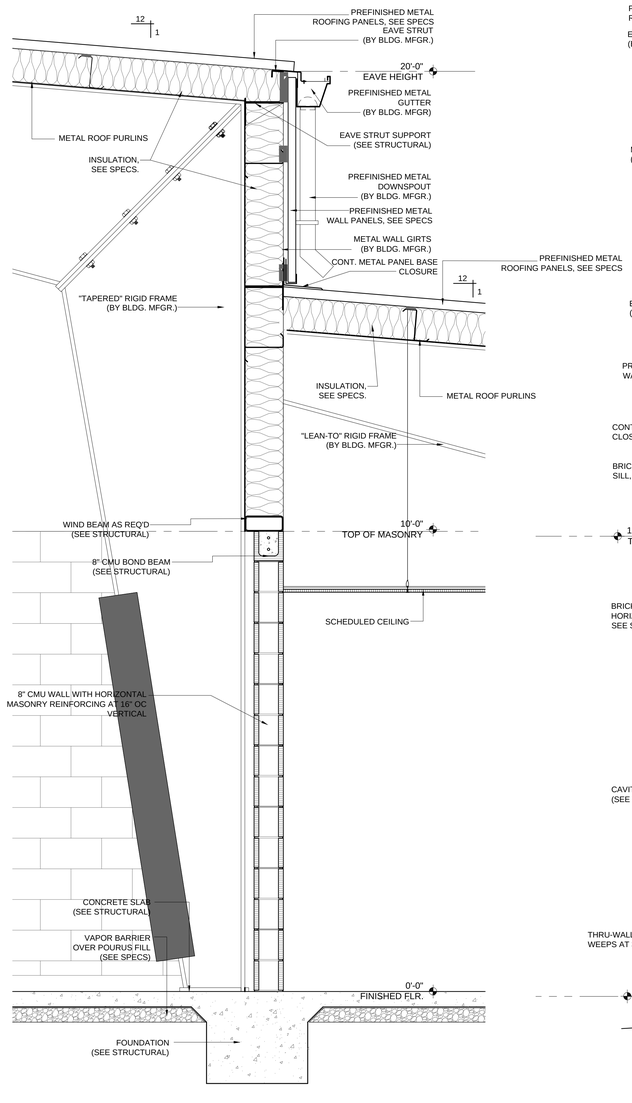
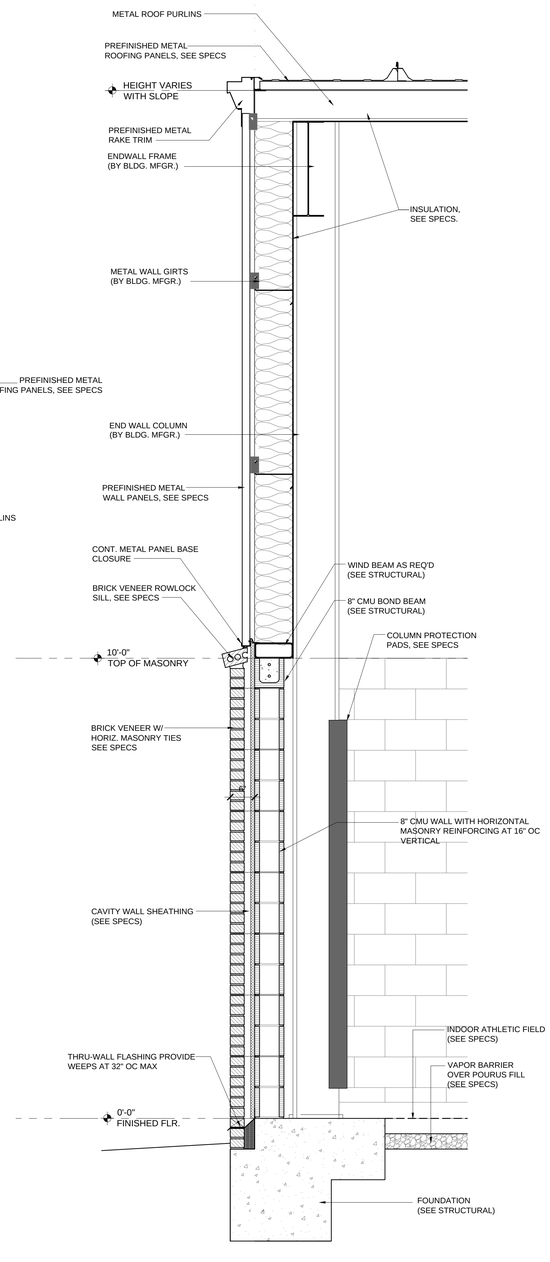
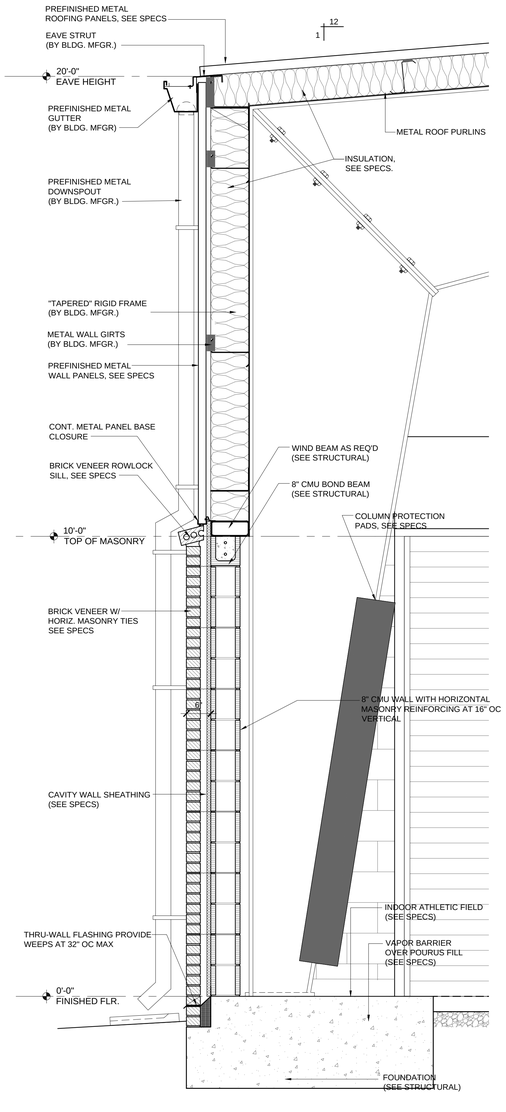


C WALL SECTION
SCALE: 3/4"=1'-0"



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



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

ADDITIONS
TO
ELBERTA HIGH SCHOOL
FOR THE
BALDWIN COUNTY BOARD OF EDUCATION
BAY MINETTE, ALABAMA

McKEE and ASSOCIATES

STATE OF ALABAMA
WALTER T. MCKEE, JR.
No. 10067
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE :	WALL SECTIONS
MCKEE JOB # :	23.192
DRAWN BY :	LAB
DATE:	10.4.23
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : A6.1

- Z:\2023\23-192 Additions to Elberta High School\CAD Drawings\Architectural\A6.1 Wall Sections-MP-A8.1 MISC DTLS.DWG
- Wednesday, October 4, 2023 10:34:01 AM

ROOM FINISH SCHEDULE

--- - NO WORK REQUIRED
MGBP - MOISTURE RESISTANT GYPSUM BOARD - PAINT
IGBP - IMPACT RESISTANT GYPSUM BOARD - PAINT
CMUP - CONCRETE MASONRY UNITS - PAINT
ES - EXPOSED STRUCTURE - PAINTED

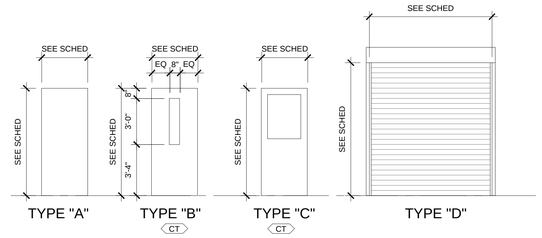
LAV - LAY-IN VINYL CLAD
SC - SEALED CONCRETE
RSF - ROLL RUBBER SPORTS FLOORING
ART - ARTIFICIAL TURF

RB - RUBBER BASE

ROOM #	ROOM NAME	FLOOR	BASE	WALLS				CEILING		WAINS.	HEIGHT	REMARKS
				NORTH	SOUTH	EAST	WEST	TYPE	HEIGHT			
A101	EXERCISE AREA	SC / ART	RB	CMUP/ES	CMUP/ES	CMUP/ES	CMUP/ES	ES	VARIES	---	---	.
A102	JANITOR	SC	RB	CMUP	CMUP	CMUP	CMUP	LAV	9'-0"	---	---	.
A103	GIRLS	SC	RB	CMUP	CMUP	CMUP	CMUP	LAV	9'-0"	---	---	.
A104	BOYS	SC	RB	CMUP	CMUP	CMUP	CMUP	LAV	9'-0"	---	---	.
A105	VESTIBULE	SC	RB	CMUP	CMUP	CMUP	CMUP	LAV	9'-0"	---	---	.
A106	SOUND ROOM	SC	RB	CMUP	CMUP	CMUP	CMUP	LAV	9'-0"	---	---	

DOOR SCHEDULE

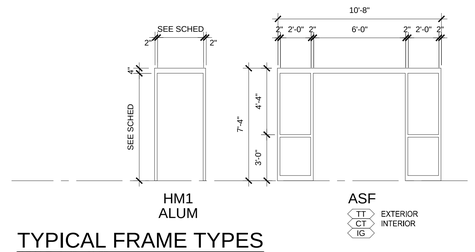
DOOR #	WIDTH	HEIGHT	THICKNESS	MATERIALS	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME FINISH	LABEL	DETAILS HEAD	DETAILS JAMB	SIGNAGE	REMARKS
A101a	PAIR 3'-0"	7'-0"	1 3/4"	FIBERGLASS (FRP)	C	FACTORY	ASF	FACTORY	----	1/A5.1	2/A5.1		
A101b	12'-0"	10'-0"	---	INSULATED COILING DOOR	D	---	---	----	----	3/A5.1	4/A5.1		
A101c	3'-0"	7'-0"	1 3/4"	FIBERGLASS (FRP)	A	FACTORY	ALUM	FACTORY	----	1/A5.1	2/A5.1		
A101d	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	B	STAIN	HM1	PAINT	----	1/A5.1	2/A5.1		
A102	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	A	STAIN	HM1	PAINT	----	5/A5.1	6/A5.1	JANITOR	
A103	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	A	STAIN	HM1	PAINT	----	5/A5.1	6/A5.1	GIRLS	
A104	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	A	STAIN	HM1	PAINT	----	5/A5.1	6/A5.1	BOYS	
A105	3'-0"	7'-0"	1 3/4"	FIBERGLASS (FRP)	A	FACTORY	ALUM	FACTORY	----	5/A5.1	6/A5.1	RESTROOMS	
A106	3'-0"	7'-0"	1 3/4"	FLUSH WOOD SOLID CORE	A	STAIN	HM1	PAINT	----	5/A5.1	6/A5.1	SOUND ROOM	



TYPICAL DOOR TYPES
SCALE: 1/4" - 1'-0"

GLAZING SCHEDULE

SYMBOL	DESCRIPTION
CT	CLEAR TEMPERED
IG	INSULATING GLASS
TT	TINTED TEMPERED



TYPICAL FRAME TYPES
SCALE: 1/4" - 1'-0"

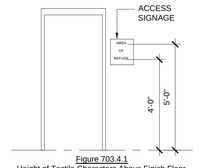


Figure 703.4.1
Height of Tactile Characters Above Finish Floor or Ground

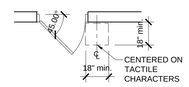


Figure 703.4.2
Location of Tactile Signs at Doors

SIGN MOUNTING HEIGHT

703.4.1 HEIGHT ABOVE FINISH FLOOR OF GROUND
TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES (1220 mm) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES (1525 mm) MAXIMUM ABOVE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.
EXCEPTION: BRAILLE PROVIDED ON ELEVATOR CAR CONTROLS SHALL BE SEPARATED 3/16 INCHES (4.8 mm) MINIMUM AND SHALL BE LOCATED EITHER DIRECTLY BELOW OR ADJACENT TO THE CORRESPONDING RAISED CHARACTERS OR SYMBOLS.

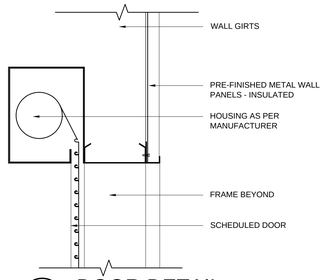
703.4.2 LOCATION
WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO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

SIGNAGE NOTES:

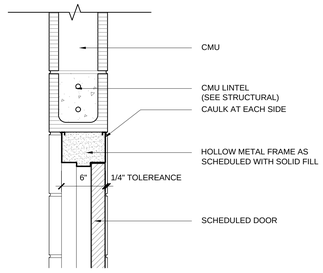
FURNISH INDIVIDUAL PLASTIC LAMINATE SIGNAGE SYSTEM WITH ROOM OR OCCUPANT'S NAME AND ROOM NUMBER. FINAL WORDING TO BE FURNISHED WHEN SHOP DRAWINGS FOR SIGNAGE SYSTEM ARE SUBMITTED. FURNISH INDIVIDUAL PLASTIC LAMINATE RESTROOM SIGNS FOR DOOR(S) AND HANDICAPED ACCESS SIGN TO BE PLACED ON WALL BESIDE RESTROOM DOOR(S) -SEE DIAGRAM.

LABELED DOOR AND FRAME NOTE:

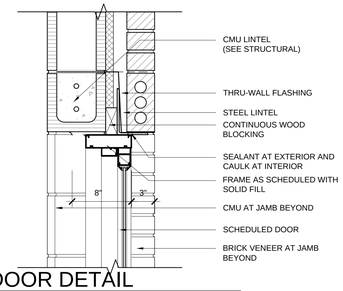
HOURLY RATING DESIGNATIONS AND / OR ALPHABETICAL LETTER DESIGNATIONS ARE GIVEN WHERE PROTECTED OPENINGS ARE REQUIRED IN RATED PARTITIONS. THESE OPENING PROTECTIVE ASSEMBLIES SHALL INCLUDE THE FRAME, DOOR, HARDWARE, CLOSING DEVICE, SILL AND ANCHORAGE. CONTRACTOR SHALL SEE THAT NO COMPONENT IS OMITTED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



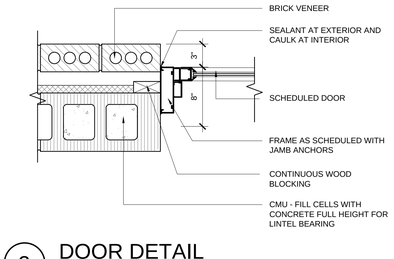
3 DOOR DETAIL
SCALE: 1 1/2"=1'-0" HEAD



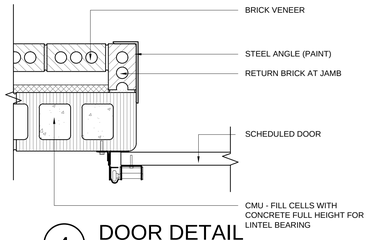
5 DOOR DETAIL
SCALE: 1 1/2"=1'-0" HEAD



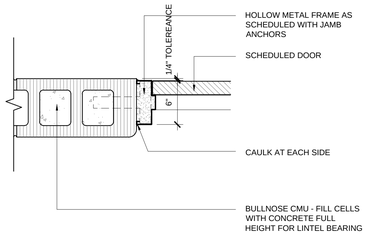
1 DOOR DETAIL
SCALE: 1 1/2"=1'-0" HEAD



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



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



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

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

STATE OF ALABAMA
WALTER T. MCKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE : FINISH / DOOR SCHEDULES, TYPES and DETAILS

MCKEE JOB # : 23.192

DRAWN BY : LAB

DATE: 10.4.23

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : A7.1

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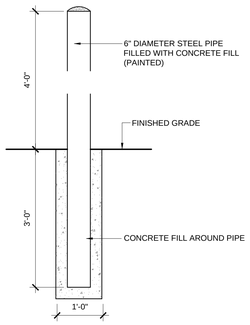
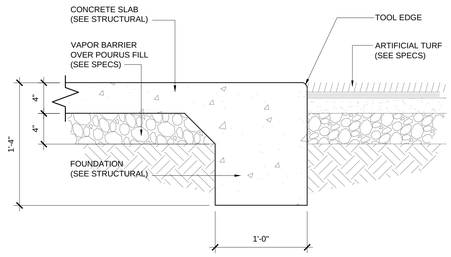
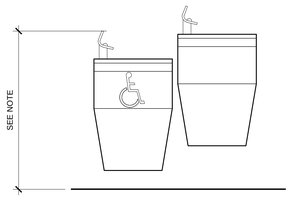


1 DETAIL
SCALE: 1 1/2"=1'-0"

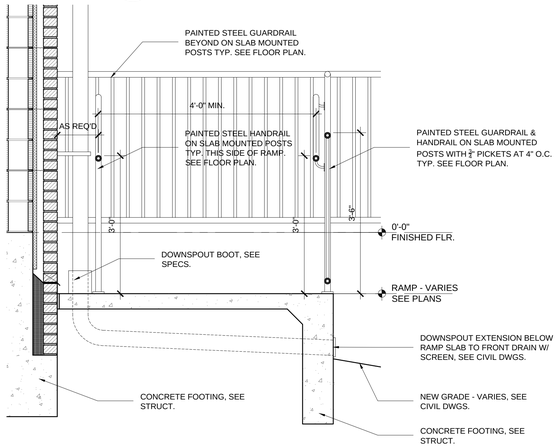


4 DETAIL
SCALE: 1 1/2"=1'-0"

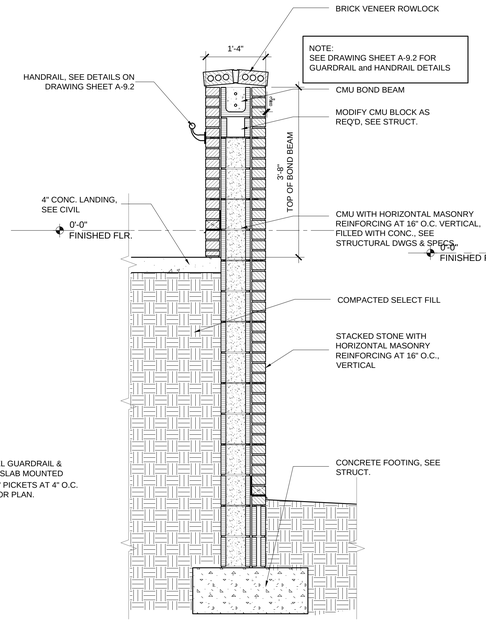


NOTE:
MOUNTING HEIGHT AT ACCESSIBLE FOUNTAIN THE SPOUT OUTLET TO BE NO MORE THAN 36" ABOVE THE FLOOR.

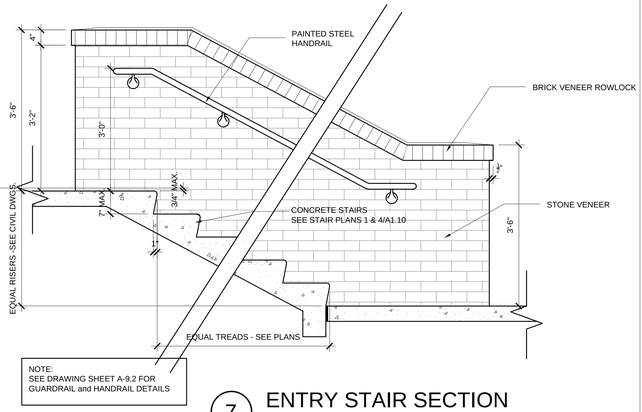
2 DETAIL
SCALE: 1 1/2"=1'-0"



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



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



7 ENTRY STAIR SECTION
SCALE: 3/4"=1'-0"

CODE NOTES:

1) HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION WITH AN OUTSIDE DIAMETER OF AT LEAST 1-1/4 IN. AND NOT MORE THAN 2 IN. (IBC SEC 1012.3)

2) INTERMEDIATE BALLISTERS, ORNAMENTAL PATTERNS OR PICKETS SHALL BE SPACED SUCH THAT A 4 IN. DIAMETER SPHERE SHALL NOT PASS THROUGH ANY OPENING. (IBC SEC 1013.3)

3) WALL HANDRAILS SHALL BE RETURNED TO THE WALL. THEY SHALL EXTEND HORIZONTALLY, AT THE REQUIRED HEIGHT, AT LEAST 12 IN. BEYOND THE TOP RISER AND CONTINUE TO SLOPE FOR A DEPTH OF ONE TREAD BEYOND THE FIRST RISER. (IBC SEC 1012.5)

GENERAL NOTES:

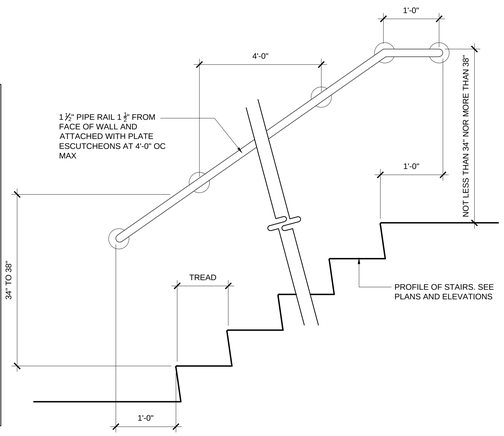
1) ALL HANDRAILS AND GUARDRAILS ARE TO BE CONSTRUCTED TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND THE INTERNATIONAL BUILDING CODE.

2) ALL WELDS ON METAL STAIRS AND RAILINGS ARE TO BE GROUND SMOOTH.

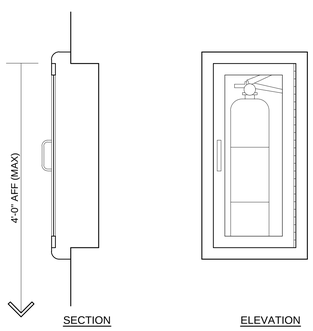
3) PRIME AND PAINT ALL EXPOSED STEEL OF METAL STAIRS AND RAILS.

4) FIELD VERIFY ALL CONDITIONS PRIOR TO FABRICATION. AT ALL TRANSITIONS WITH THE FLOOR, PROVIDE ESCUTCHEONS OF THE SAME MATERIAL FOR CRAFTED APPEARANCE.

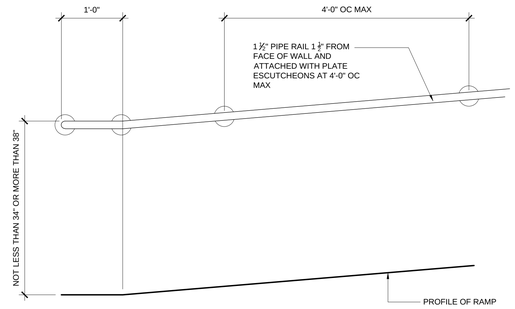
5) ALL RAILING COMPOSITIONS ARE TO BE EQUALLY SPACED ALONG A CONTINUOUS RUN. THE COMPOSITIONS ARE TO BE CENTERED WITHIN EACH PANEL-TYP. SEE PLANS FOR ADDITIONAL INFO.



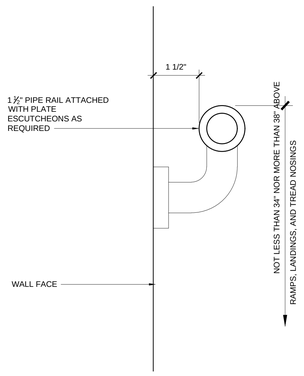
WALL MOUNTED HANDRAIL AT STAIR (WMH)
SCALE: 1" - 1'-0"



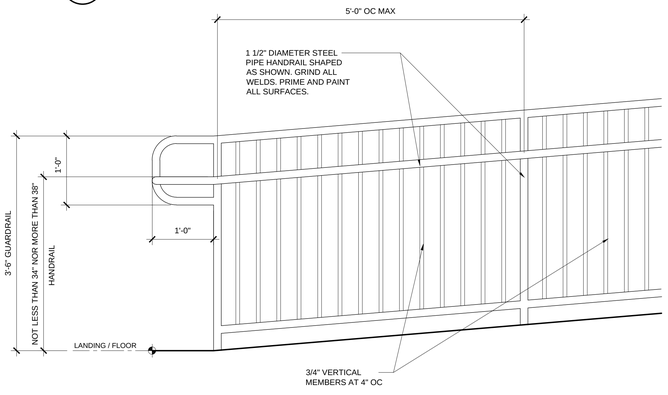
3 DETAIL
SCALE: 1 1/2"=1'-0"



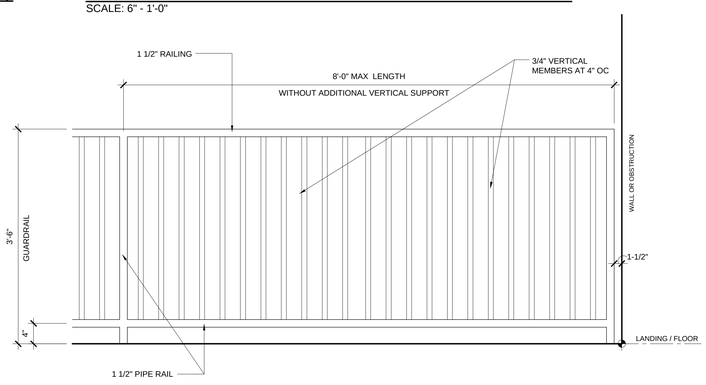
WALL MOUNTED HANDRAIL AT RAMP (WHR)
SCALE: 1" - 1'-0"



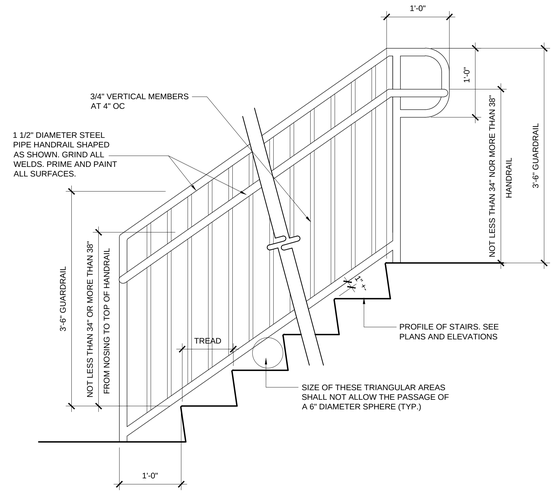
WALL MOUNTED HANDRAIL SECTION AT WALL
SCALE: 6" - 1'-0"



METAL GUARDRAIL / HANDRAIL AT RAMP (GR/HR)
SCALE: 1" - 1'-0"



METAL GUARDRAIL (GR)
SCALE: 1" - 1'-0"



METAL GUARDRAIL / HANDRAIL AT STAIR (GR/HR)
SCALE: 1" - 1'-0"

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

STATE OF ALABAMA
WALTER T. McKEE, JR.
No. 1082
MONTGOMERY, ALA.
REGISTERED ARCHITECT

SHEET TITLE :	MISC DETAILS
MCKEE JOB # :	23.192
DRAWN BY :	LAB
DATE:	10.4.23
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : A8.1

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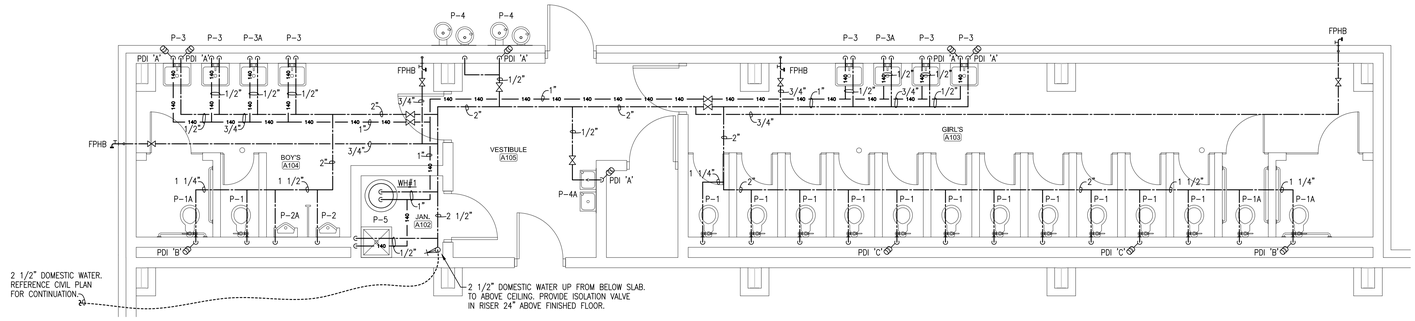
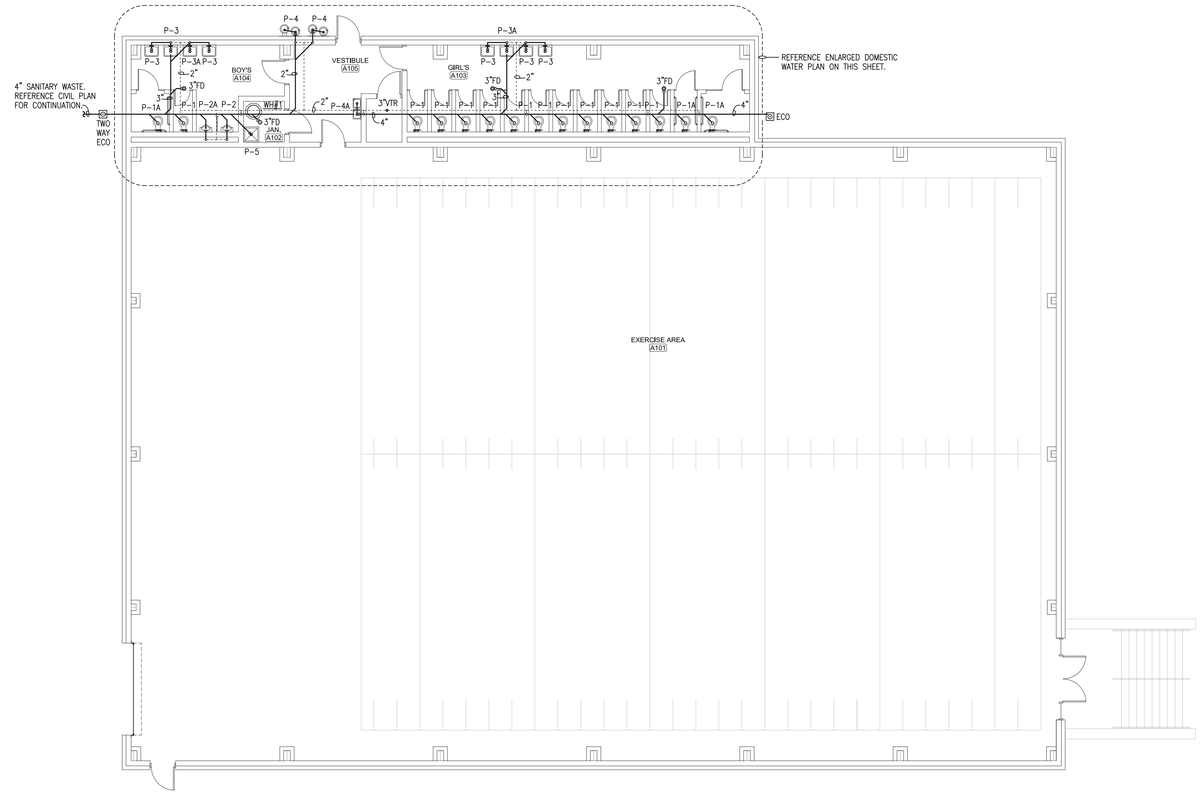


ENLARGED DOMESTIC WATER PLAN
SCALE: 1/4" = 1'-0"

NOTE:
IN LIEU OF TRAP PRIMERS USE BARRIER TRAP SEALS.



SANITARY WASTE PLAN
SCALE: 1/8" = 1'-0"

H.M. YONGE & ASSOCIATES, INC.
CONSULTING ENGINEERS // EST. 1988
51 EAST GREGORY STREET
PENSACOLA, FLORIDA 32502
PHONE: (850)434-2661
253 ST. ANTHONY STREET
MOBILE, ALABAMA 36603
PHONE: (251)690-7446

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

STATE OF ALABAMA
No. 14948
PROFESSIONAL
ENGINEER
10/04/23

SHEET TITLE :	PLUMBING PLANS
MCKEE JOB # :	23.192
DRAWN BY :	LMS
DATE:	10.04.23
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : P1.1

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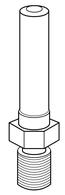


AIR PRELOAD PSI	FIXTURE UNITS	P.D.I. SYMBOL
60	1–11	A
60	12–32	B
60	33–60	C

NOTE: WATER HAMMER ARRESTORS TO BE LOCATED ABOVE ELEVATION OF CEILING AND BE ACCESSIBLE THROUGH CEILING TILE. IN AREAS WITHOUT CEILING ACCESS, PROVIDE 12"x12" ACCESS PANELS. ACCESS PANEL LOCATIONS TO BE COORDINATED WITH ARCHITECT AND APPROVED BY OWNER PRIOR TO INSTALLATION.

WATER HAMMER DETAIL

NOT TO SCALE

PLUMBING LEGEND

AFF	ABOVE FINISHED FLOOR
CW	COLD WATER
ECO	EXTERIOR CLEANOUT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FPHB	FREEZE PROOF HOSE BIBB
HW	HOT WATER
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
WH	WATER HEATER
	COLD WATER PIPING
140 140	140° HOT WATER PIPING
	WASTE PIPING
	VENT PIPING
	GATE VALVE
	P–TRAP
	VENT THRU ROOF

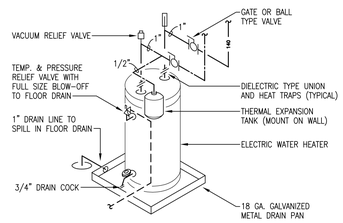
PLUMBING FIXTURE CONNECTION SCHEDULE

MARK	FIXTURE	CONNECTIONS			DESCRIPTION
		WASTE	CW	HW	
P–1	WATER CLOSET	4"	1"	--	15" HIGH ELONGATED BOWL, FLOOR MOUNTED, FLOOR OUTLET, FLUSH VALVE TYPE. PROVIDE WHITE OPEN FRONT SEAT LESS COVER, FLUSH VALVE, AND FLEXIBLE SUPPLY WITH STOP.
P–1A	WATER CLOSET (HANDICAPPED)	4"	1"	--	17" HIGH ELONGATED BOWL, FLOOR MOUNTED, FLOOR OUTLET, FLUSH VALVE TYPE. PROVIDE WHITE OPEN FRONT SEAT LESS COVER, FLUSH VALVE, AND FLEXIBLE SUPPLY WITH STOP. INSTALL PER ADA REQUIREMENTS.
P–2	URINAL	2"	3/4"	--	WALL HUNG TYPE WITH FLUSH VALVE AND FLOOR MOUNTED CARRIER.
P–2A	URINAL (HANDICAPPED)	2"	3/4"	--	WALL HUNG TYPE WITH FLUSH VALVE AND FLOOR MOUNTED CARRIER. INSTALL PER ADA REQUIREMENTS.
P–3	LAVATORY	1 1/2"	1/2"	1/2"	WALL HUNG TYPE. PROVIDE WITH SINGLE FAUCET, GRID WASTE, 17 GA P–TRAP, FLEXIBLE SUPPLIES WITH STOPS, FLOOR MOUNTED CONCEALED ARM CARRIER, AND UNDER COUNTER POINT OF USE THERMAL MIXING VALVE.
P–3A	LAVATORY (HANDICAPPED)	1 1/2"	1/2"	1/2"	WALL HUNG TYPE. PROVIDE WITH SINGLE FAUCET, GRID WASTE, 17 GA P–TRAP, FLEXIBLE SUPPLIES WITH STOPS, TRAP INSULATION KIT, FLOOR MOUNTED CONCEALED ARM CARRIER, AND UNDER COUNTER POINT OF USE THERMAL MIXING VALVE. INSTALL PER ADA REQUIREMENTS.
P–4	WATER COOLER (HANDICAPPED)	1 1/2"	1/2"	--	VANDAL RESISTANT, DUAL HEIGHT, FREEZE RESISTANT, BARRIER FREE, WALL MOUNTED TYPE WITH ROUGH BRASS STOPS, 17 GA. P–TRAP, AND WALL HANGER. INSTALL PER ADA REQUIREMENTS.
P–4A	WATER COOLER (HANDICAPPED)	1 1/2"	1/2"	--	DUAL HEIGHT WITH BOTTLE FILLING STATION, BARRIER FREE, WALL MOUNTED TYPE WITH ROUGH BRASS STOPS, 17 GA. P–TRAP, AND WALL HANGER. INSTALL PER ADA REQUIREMENTS.
P–5	MOP SINK	3"	1/2"	1/2"	24"x24" TERRAZZO CORNER TYPE SERVICE BASIN WITH WALL MOUNTED SERVICE SINK FAUCET, VACUUM BREAKER, WALL BRACE, 3" STAINLESS STEEL DRAIN, AND STAINLESS STEEL RIM GUARD.

NOTE: FIXTURES SHALL BE WHITE AND FAUCETS SHALL BE POLISHED CHROME UNLESS OTHERWISE INDICATED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL HANDICAPPED FIXTURES SHALL BE ADA COMPLIANT AND INSTALLED PER ADA REQUIREMENTS. REFERENCE ARCHITECTURAL PLANS FOR INSTALLATION HEIGHTS. ALL DOMESTIC WATER PIPING ABOVE THE SLAB SHALL BE INSULATED INCLUDING PIPING INSIDE WALLS. PIPING SHALL NOT BE INSTALLED IN A MANNER IN WHICH CONTACT WITH MASONRY PRODUCTS IS ALLOWED.

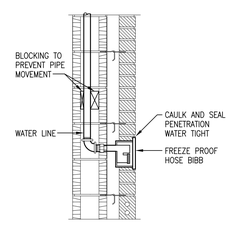
WATER HEATER SCHEDULE

MARK WH#	CAPACITY (GALLONS)	WATER TEMP.		RECOVERY GPH @ 100° RISE	ELECTRICAL DATA				REMARKS
		ENT °F	LVG °F		VOLTS	Hz	PHASE	KW	
1	40	40	140	55	208	60	3	4.5	GLASS–LINED, FOAM INSULATED, ENERGY MISER TYPE WITH EXPANSION TANK, T&P RELIEF VALVE, AUXILIARY DRAIN PAN AND HEAT TRAPS.



ELECTRIC WATER HEATER DETAIL

NOT TO SCALE



FREEZE PROOF HOSE BIBB DETAIL

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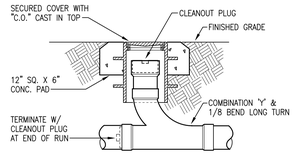

EXTERIOR CLEANOUT DETAIL

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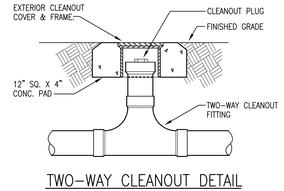

TWO–WAY CLEANOUT DETAIL

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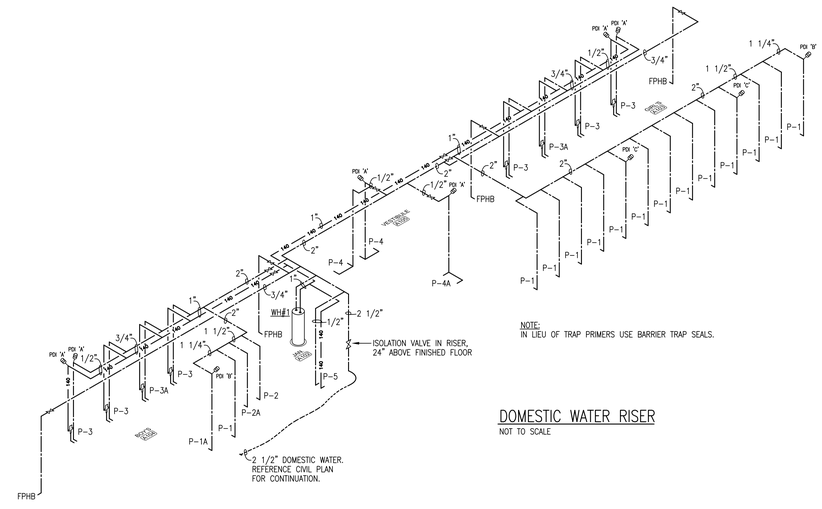
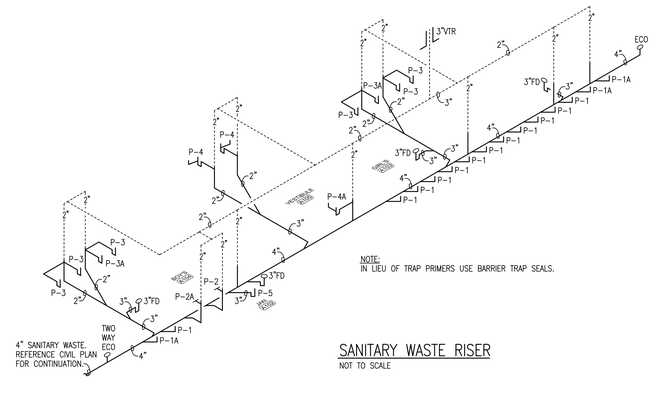


NOTE:
IN LIEU OF TRAP PRIMERS USE BARRIER TRAP SEALS.

DOMESTIC WATER RISER

NOT TO SCALE



NOTE:
IN LIEU OF TRAP PRIMERS USE BARRIER TRAP SEALS.

SANITARY WASTE RISER

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STATE OF ALABAMA
No. 14948
PROFESSIONAL
ARCHITECT
10/04/23

SHEET TITLE : PLUMBING SCHEDULES, LEGEND AND DETAILS

MCKEE JOB # : 23.192

DRAWN BY : LMS

DATE: 10.04.23

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : P2.1

- M:\Jobs_Active\23138 Elberta High School Additions\23138P21.dwg
- Wednesday, October 4, 2023 10:02:25 AM

LMS> M:\Jobs_Active\23138 Elberta High School Additions\23138P21.dwg 10/03/23 12:00

MECHANICAL LEGEND

DUCTWORK	
12"ø / 12"/8"	DOUBLE WALL, ROUND OR FLAT OVAL SPIRAL SEAM DUCTWORK. SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
12"x8"	RECTANGULAR DUCTWORK. SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
12"ø	ROUND METAL SNAPLOCK DUCTWORK. SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
	FACTORY FABRICATED AND INSULATED SOUND ATTENUATING FLEXIBLE ROUND DUCT. MAX LENGTH SHALL BE 8 FT.
	SQUARE THROAT ELBOW IN RECTANGULAR DUCTWORK WITH DOUBLE WALL TURNING VANES. PROVIDE FOR ALL DUCTWORK 12" AND LARGER IN THE TURNING DIRECTION.
	RECTANGULAR BRANCH DUCT TAKEOFF FROM RECTANGULAR MAIN DUCT. TAKEOFF SHALL BE MADE WITH A 45° COLLAR. SEE DETAIL.
	LONG RADIUS ELBOW IN RECTANGULAR OR ROUND DUCT. PROVIDE FOR ALL DUCTWORK SMALLER THAN 12" IN THE TURNING DIRECTION.
	MITERED ELBOW "HARD BEND" IN SINGLE WALL ROUND OR FLAT OVAL SPIRAL SEAM DUCT. PROVIDE WITH DOUBLE WALL TURNING VANES.
	BRANCH CONNECTION IN ROUND OR FLAT OVAL SPIRAL SEAM DUCT MADE WITH A CONICAL TEE FITTING.
	ROUND BRANCH DUCT TAKEOFF FROM RECTANGULAR MAIN DUCT. BRANCH DUCT SHALL BE FLEXIBLE ROUND OR ROUND SNAPLOCK DUCT AS INDICATED. ROUND DUCT TAP-IN SHALL BE MADE WITH SIDE TAKEOFF FITTING WITH MANUAL VOLUME DAMPER. SEE DETAIL.
	MANUAL VOLUME DAMPER IN RECTANGULAR OR ROUND CUT. PROVIDE WITH LOCKING QUADRANT REGULATOR.
M	AUTOMATIC CONTROL DAMPER. MOTORIZED FULLY MODULATING DAMPER.
	RECTANGULAR OR FLAT OVAL TO ROUND DUCT TRANSITION PER SMACNA DUCT CONSTRUCTION STANDARDS.
FD S	FIRE DAMPER(FD); SMOKE DAMPER(S); FIRE/SMOKE DAMPER(F/S). PROVIDE WITH DUCT ACCESS DOOR AND CLOSURE ANGLES. SEE DETAIL.
	UNDERCUT DOOR ⅜" TO ALLOW FOR AIRFLOW IN THE DIRECTION INDICATED.
T	THERMOSTAT WITH EQUIPMENT NUMBER SERVED – MOUNT AT 48" AFF.
TS	TEMPERATURE SENSOR
S	SMOKE DETECTOR

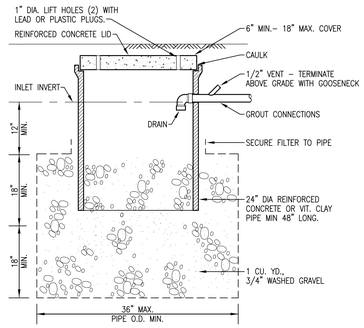
AIR DEVICE SCHEDULE

MARK	CFM	MAX. NC	AIR DEVICE SIZE	DUCT CONNECTION SIZE	REMARKS (TYPE)
0–75	0–75	25	6"x6"	6"ø	CD
76–150	76–150	25	9"x6"	7"ø	CD
151–200	151–200	25	9"x9"	8"ø	CD

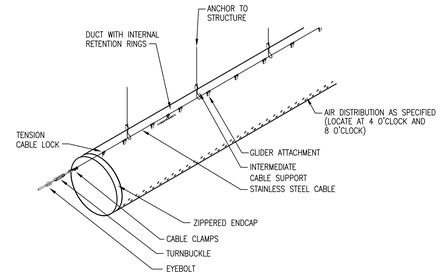
NOTES:
1. PROVIDE 24"X24" PANEL FOR ALL AIR DEVICES IN LAY-IN CEILING.
2. PROVIDE DUCT CONNECTION SIZE SHOWN UNLESS OTHERWISE NOTED ON PLANS.
3. AIR DEVICE SIZES SHOWN ON PLANS TAKE PRECEDENCE OVER THIS SCHEDULE.

ABBREVIATIONS

@	AT	FLA	FULL LOAD AMPS
AD	ACCESS DOOR	°F	FAHRENHEIT
AFMS	AIRFLOW MEASURING STATION	HPU	HEAT PUMP UNIT
AH	AIR HANDLING UNIT	HP	HORSEPOWER
AFF	ABOVE FINISHED FLOOR	IAQ	INDOOR AIR QUALITY
ARI	AIR CONDITIONING & REFRIGERATION INSTITUTE	MCA	MINIMUM CIRCUIT AMPACITY
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, & AIR CONDITIONING ENGINEERS	MOCP	MAXIMUM OVERCURRENT PROTECTION
BTUH	BRITISH THERMAL UNIT PER HOUR	OAL	OUTSIDE AIR LOUVER
CD	CEILING DIFFUSER	PACU	PACKAGED A/C UNIT
CFM	CUBIC FEET PER MINUTE	RAR	RETURN AIR REGISTER
DCDU	DUCTLESS CONDENSING UNIT	RLA	RATED LOAD AMPS
DDC	DIRECT DIGITAL CONTROL	TG	TRANSFER GRILLE
EAL	EXHAUST AIR LOUVER	W	WATTS
EAT	ENTERING AIR TEMPERATURE		
EDB	ENTERING DRY BULB		
EF	EXHAUST FAN		
ESP	EXTERNAL STATIC PRESSURE		
EUH	ELECTRIC UNIT HEATER		
EWB	ENTERING WET BULB		



TYPICAL DRYWELL DETAIL
NOT TO SCALE



HORIZONTAL FABRIC DUCT SUSPENSION DETAILS
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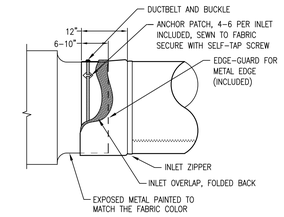

FABRIC DUCT INLET ATTACHMENT DETAIL
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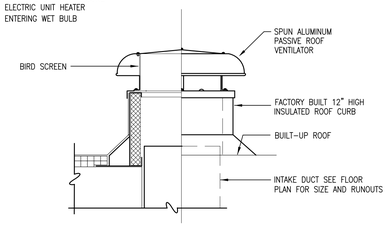
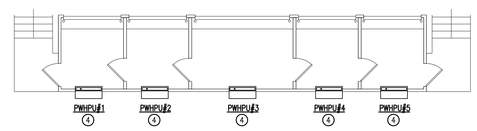


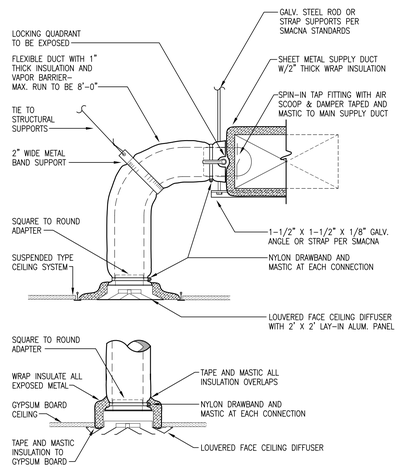
TYPICAL ROOF MOUNTED INTAKE HOOD DETAIL
NOT TO SCALE



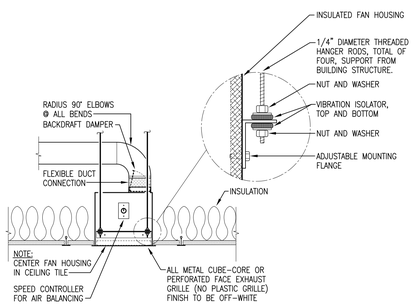
HVAC PLAN - PRESS BOX
SCALE: 1/8" = 1'-0"

HVAC KEY NOTES:

1. CEILING MOUNTED EXHAUST FAN WITH AIR DISCHARGE DUCT MANIFOLD. ROUTE DUCT GENERALLY AS INDICATED WITH OFFSETS TO AVOID OBSTRUCTIONS. EXHAUST AIR MANIFOLD SHALL EXTEND FOR TERMINATION ON EXTERIOR WALL WITH A WALL MOUNTED VENT CAP. VENT CAP SHALL BE FULL SIZE OF EXHAUST DUCT.
2. IN LINE EXHAUST FAN TO BE MOUNTED ABOVE CEILING ELEVATION. EXHAUST FAN SHALL SERVE VESTIBULE. WHEN PACU#1 IS OPERATING, THE EXHAUST FAN SHALL BE OPERATING.
3. ELECTRIC UNIT HEATER IS TO BE MOUNTED IN WALL AS A RECESSED TYPE. DO NOT MOUNT UNIT HEATER ON SURFACE OF WALL.
4. PACKAGED HEAT PUMP UNIT TO BE MOUNTED IN PRESS BOX WALL. PROVIDE UNIT WITH INTERNAL CONDENSATE REMOVAL SYSTEM TO PERMIT UNIT TO AUTOMATICALLY DISPOSE OF ITS GENERATED CONDENSATE WATER WITH NO OVERFLOW DRIPPING.
5. PACKAGED AIR CONDITIONING UNIT MOUNTED 36 INCHES ABOVE 6 INCH THICK CONCRETE SLAB ON GALVANIZED ANGLE IRON FRAME. SECURE UNIT TO FRAME AND FRAME TO CONCRETE PAD WITH MECHANICAL FASTENERS. PAD SHALL BE 6 INCHES LARGER THAN UNIT IN ALL DIRECTIONS. EXTEND FROM UNIT, FULL SIZE OF OPENING, A CONDENSATE DRAIN WITH P-TRAP. ROUTE CONDENSATE DRAIN ALONG FRAME TO TURN DOWN TO 6 INCHES ABOVE GRADE. TERMINATE DRAIN LINE WITH ELBOW IN UP POSITION TO SPILL ON GRADE.

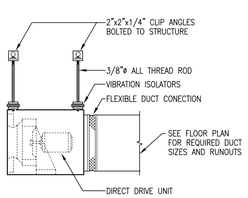


TYPICAL CEILING DIFFUSER DETAIL
NOT TO SCALE

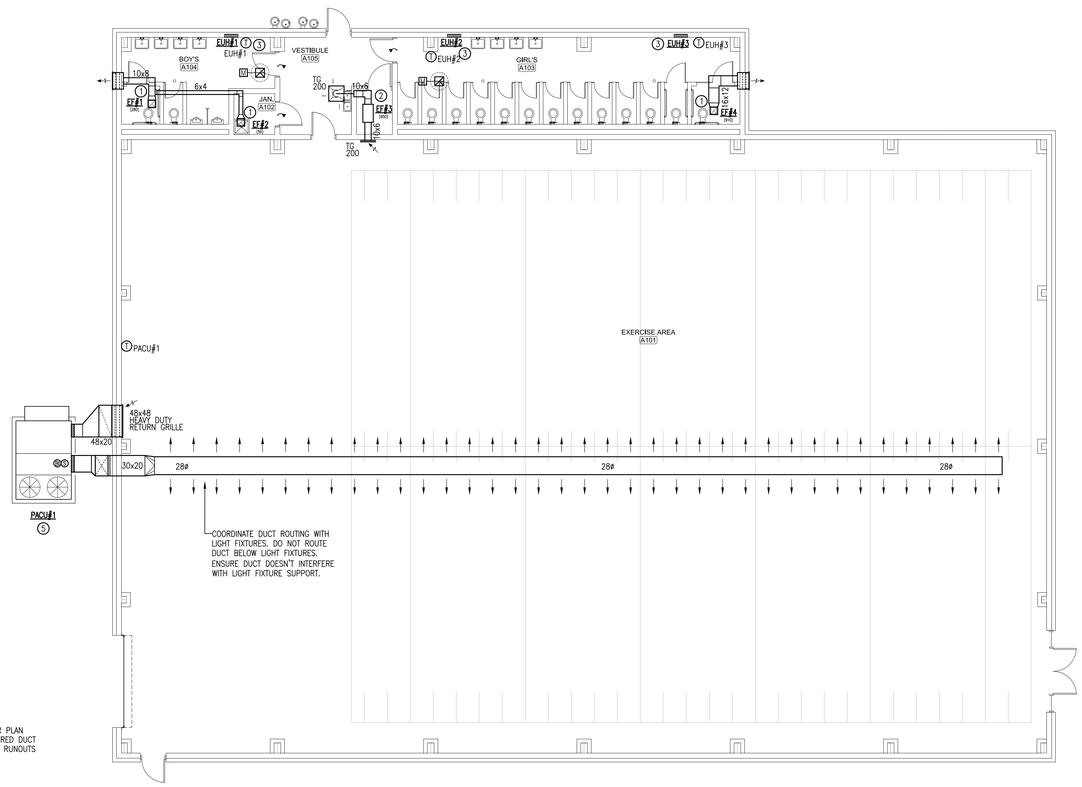


NOTE: SUPPORT RODS TO ROOF STRUCTURE – DO NOT SUPPORT FAN WITH CEILING SYSTEM

TYPICAL EXHAUST FAN DETAIL
NOT TO SCALE



INLINE EXHAUST FAN
NOT TO SCALE



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

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STATE OF ALABAMA No. 14948 PROFESSIONAL ENGINEER
10/04/23

SHEET TITLE : HVAC PLANS

MCKEE JOB # : 23.192

DRAWN BY : AWB

DATE: 10.04.23

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : M1.1

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- Wednesday, October 4, 2023 10:03:52 AM

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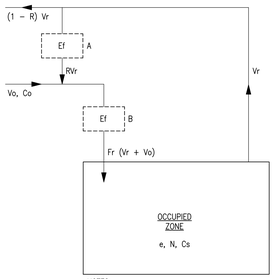
OUTSIDE AIR VENTILATION RATES
IAQ PROCEDURE – 2021 IMC

ZONE TAG	FACILITY TYPE	ZONE USE	ZONE FLOOR AREA (SF) Az	ZONE MAX OCCUPANCY Rp	TABLE 6.1 OA/person (Rp)	TABLE 6.1 cfm/ft2 (Ra)	Pz*Rp	Az*Ra	TABLE 6.2 VENTILATION EFF. (Ez)	ZONE OA (CFM)
PACU#1	EDUCATIONAL	GYM/STADIUM	9300	50	20.0	0.18	1000	1674	0.8	3343 (3)
ZONE HEIGHT (FT)	25			AIR CHANGES/HOUR		1.4				
DESIRED OA – IAQ	875			OA PER VRP		3343 CFM	VRP OA CFM/PERSON			66.9
SUPPLY AIR (Vs)	5250			OA PER IAQ		875 CFM	IAQ OA CFM/PERSON			17.5
RETURN AIR (Vr)	4375			OA SAVINGS		2468 CFM				
RECIRC. FLOW FACTOR(R)	0.83			OA DRY BULB		95 °F				
VENT. EFF. (Ez)	0.8			OA WET BULB		80 °F				
PHYSICAL ACTIVITY	STRENUOUS EXERCISE			COIL LVG. DRY BULB		55 °F				
FILTER LOCATION	B			COIL LVG. WET BULB		54 °F				
HVAC FLOW TYPE	CONSTANT									
OA FLOW TYPE	CONSTANT									

CONTAMINANT OF CONCERN	CONTAMINANT SOURCE	MAXIMUM THRESHOLD VALUE (PPM)	STEADY STATE USING VRP	STEADY STATE USING IAQ	STEADY STATE LEVEL OK @ REDUCED OA?
ACETALDEHYDE	PEOPLE	20	0.01113	0.00162	YES
ACETONE	PEOPLE	19	0.00176	0.00073	YES
AMMONIA	PEOPLE	2.5	0.01813	0.01815	YES
BENZENE	PEOPLE	0.1	0.00252	0.00038	YES
2-BUTANONE (MEK)	PEOPLE	10	0.00020	0.00013	YES
CARBON DIOXIDE	PEOPLE	5000	639	1314	YES
CHLOROFORM	PEOPLE	0.2	0.00011	0.00002	YES
DIOXANE	PEOPLE	100	0	0	YES
HYDROGEN SULFIDE	PEOPLE	20	0	0	YES
METHANE	PEOPLE	N/A	1.68094	1.68094	YES
METHANOL	PEOPLE	200	0	0	YES
METHYLENE CHLORIDE	PEOPLE	50	0.00079	0.00010	YES
PROPANE	PEOPLE	100	0.00998	0.00998	YES
TETRACHLOROETHANE	PEOPLE	35 mg/m3	0	0	YES
TETRACHLOROETHYLENE	PEOPLE	2.5	0.00037	0.00005	YES
TOLUENE	PEOPLE	2	0.0053	0.00078	YES
TRICHLOROETHANE	PEOPLE	0.2	0.00078	0.00015	YES
XYLENE	PEOPLE	0.4	0.00230	0.00033	YES
			IS IAQ ACCEPTABLE AT REDUCED OA LEVELS?		YES

NOTES:
1. IAQ PROCEDURE IN ACCORDANCE WITH THE ENGINEERED EXCEPTION FOUND IN 2021 IMC, SECTION 403.2 AND IN ACCORDANCE WITH ASHRAE 62.1–2007, SECTION 6.1.2 & 6.3 BY UTILIZING BIPOLAR IONIZATION TECHNOLOGY.
2. ALL VALUES LISTED IN PARTS PER MILLION (PPM), UNLESS OTHERWISE NOTED.
3. OUTSIDE AIR REQUIRED PER VENTILATION RATE PROCEDURE (VRP).
4. CARBON DIOXIDE LEVELS MEET OSHA AND ACGIH LIMITS FOR CONTINUOUS EXPOSURE OF 5,000 PPM.
5. BIPOLAR IONIZATION DEVICE SHALL DE–ENERGIZE WHEN RESPECTIVE AIR HANDLER FAN DE–ENERGIZES.



NOTES:
ASHRAE 62.1–2007 (APPENDIX D) VENTILATION SYSTEM SCHEMATIC FOR MASS BALANCE EQUATIONS FOR USE WITH THE IAQ PROCEDURE.

QUANTITIES

A, B	FILTER LOCATION
V	VOLUMETRIC FLOW
C	CONTAMINANT CONCENTRATION
e	AIR CHANGE EFFECTIVENESS
Ef	FILTER EFFICIENCY
Fr	FLOW REDUCTION FACTOR
N	CONTAMINANT GENERATION RATE
R	RECIRCULATION FLOW FACTOR

SUBSCRIPTS

o	OUTDOOR
r	RETURN
s	SPACE

SEQUENCE OF OPERATION

PACKAGED AIR CONDITIONING UNIT W/ GAS HEAT:

BUILDING AUTOMATION SYSTEM INTERFACE:

THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER OCCUPIED BYPASS, PRE–COOL, OCCUPIED/UNOCCUPIED AND HEAT/COOL MODES. IF A BAS IS NOT PRESENT, OR COMMUNICATION IS LOST WITH THE BAS THE CONTROLLER SHALL OPERATE USING DEFAULT MODES AND SETPOINTS. BOTH UNITS SHALL WORK IN TANDEM TO SATISFY TEMPERATURE AND HUMIDITY REQUIREMENTS.

OCCUPIED:

THE DX COOLING SHALL CONTROL TO MAINTAIN THE ACTIVE DISCHARGE AIR TEMPERATURE SETPOINT. IF ECONOMIZING IS ENABLED, THE OUTDOOR AIR OR MIXED AIR DAMPERS SHALL MODULATE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT AND THE RELIEF AIR DAMPER SHALL TRACK THE MIXED AIR DAMPERS. THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE DYNAMICALLY RESET BASED ON THE DEVIATION OF ACTUAL SPACE TEMPERATURE FROM THE ACTIVE SPACE TEMPERATURE SETPOINT. IF THE DISCHARGE AIR TEMPERATURE SENSOR FAILS, THE DX COOLING SHALL CONTROL TO MAINTAIN THE ACTIVE SPACE TEMPERATURE SETPOINT AND AN ALARM SHALL ANNUNCIATE AT THE BAS. IF THE DISCHARGE AIR TEMPERATURE SENSOR AND THE SPACE TEMPERATURE SENSOR FAIL, THE DX COOLING SHALL BE DISABLED, AND AN ALARM SHALL ANNUNCIATE AT THE BAS.

OPTIMAL START:

THE BAS SHALL MONITOR THE SCHEDULED OCCUPIED TIME, OCCUPIED SPACE SETPOINTS AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL START OCCURS.

PRE–COOL MODE:

DURING OPTIMAL START, IF THE SPACE TEMPERATURE IS ABOVE THE OCCUPIED COOLING SETPOINT, PRE–COOL MODE SHALL BE ACTIVATED. WHEN PRE–COOL IS INITIATED, THE UNIT SHALL ENABLE THE FAN AND COOLING. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED. WHEN THE SPACE TEMPERATURE REACHES OCCUPIED COOLING SETPOINT (ADJ.), THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE.

OPTIMAL STOP:

THE BAS SHALL MONITOR THE SCHEDULED UNOCCUPIED TIME, OCCUPIED SETPOINTS AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL STOP OCCURS. WHEN THE OPTIMAL STOP MODE IS ACTIVE THE UNIT CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE TO THE SPACE TEMPERATURE OFFSET SETPOINT. OUTSIDE AIR DAMPER SHALL REMAIN ENABLED TO PROVIDE MINIMUM VENTILATION.

OCCUPIED BYPASS:

THE BAS SHALL MONITOR THE STATUS OF THE ON AND CANCEL BUTTONS OF THE SPACE TEMPERATURE SENSOR. WHEN AN OCCUPIED BYPASS REQUEST IS RECEIVED FROM A SPACE SENSOR, THE UNIT SHALL TRANSITION FROM ITS CURRENT OCCUPANCY MODE TO OCCUPIED BYPASS MODE AND THE UNIT SHALL MAINTAIN THE SPACE TEMPERATURE TO THE OCCUPIED SETPOINTS (ADJ.).

HEAT/COOL MODE:

WHEN THE SPACE TEMPERATURE RISES ABOVE THE OCCUPIED COOLING SETPOINT THE MODE SHALL TRANSITION TO COOLING. WHEN THE SPACE TEMPERATURE FALLS BELOW THE OCCUPIED HEATING SETPOINT THE MODE SHALL TRANSITION TO HEATING. WHEN THE SPACE TEMPERATURE IS ABOVE THE OCCUPIED COOLING SETPOINT OR BELOW THE OCCUPIED HEATING SETPOINT THE MODE SHALL REMAIN IN ITS LAST STATE. IF THE SPACE TEMPERATURE SENSOR FAILS, THE MODE SHALL REMAIN IN ITS LAST STATE AND AN ALARM SHALL ANNUNCIATE AT THE BAS. IF THE LOCAL AND COMMUNICATED SETPOINTS FAIL THE CONTROLLER SHALL DISABLE THE SUPPLY FAN AND AN ALARM SHALL ANNUNCIATE AT THE BAS.

DEHUMIDIFICATION:

THE UNIT SHALL BE IN DEHUMIDIFICATION MODE IF THE SPACE HUMIDITY IS ABOVE THE DEHUMIDIFICATION SETPOINT (58 % ADJ). IN THE DEHUMIDIFICATION MODE, THE SUPPLY AIR FAN SHALL BE ENABLED, THE OUTSIDE AIR DAMPER SHALL BE COMMANDED TO MINIMUM POSITION, AND THE UNIT CONTROLLER SHALL ENERGIZE MECHANICAL COOLING AND THE REHEAT SOLENOID. WHILE IN DEHUMIDIFICATION MODE, ECONOMIZER MODE IS DISABLED.

MULTI–CIRCUIT UNITS: DURING DEHUMIDIFICATION MODE THE OUTSIDE AIR TEMPERATURE SHALL BE MONITORED. IF THIS TEMPERATURE RISES ABOVE THE REHEAT CAPACITY LIMIT SETPOINT OR FALLS BELOW THE REHEAT CAPACITY LIMIT SETPOINT – 3.0 DEG. F, THE UNIT SHALL STAGE DOWN OR STAGE UP THE COMPRESSORS RESPECTIVELY TO MEET FULL OR PART LOAD CAPACITY REQUIREMENTS BASED ON AMBIENT TEMPERATURE. FACTORY INSTALLED HOT GAS REHEAT SHALL ALLOW APPLICATION OF DEHUMIDIFICATION. DEHUMIDIFICATION SHALL BE ALLOWED ONLY WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE 40.0 DEG. F AND BELOW 100.0 DEG. F. THE OUTSIDE AIR DAMPER SHALL DRIVE TO MINIMUM POSITION DURING DEHUMIDIFICATION.

VENTILATION CONTROL:

WHEN THE SPACE CO2 LEVEL IS GREATER THAN OR EQUAL TO THE DESIGN MINIMUM CO2 SETPOINT, THE OUTDOOR AIR DAMPER SHALL OPEN TO THE DESIGN MAXIMUM OUTDOOR AIR DAMPER SETPOINT. WHEN THE SPACE CO2 LEVEL IS LESS THAN OR EQUAL TO THE DCV MINIMUM CO2 SETPOINT, THE OUTDOOR AIR DAMPER SHALL CLOSE TO THE DCV MINIMUM OUTDOOR AIR DAMPER SETPOINT. IF THERE IS A CALL FOR ECONOMIZER COOLING, THE DAMPER SHALL BE OPENED FURTHER TO SATISFY THE COOLING REQUEST.

SUPPLY FAN:

THE UNIT VFD SHALL VARY THE SUPPLY FAN SPEED TO OPTIMIZE MINIMUM FAN SPEED IN ALL COOLING AND HEATING MODES. IN DEHUMIDIFICATION MODE, THE SUPPLY FAN SHALL GO TO DEHUMIDIFICATION SETPOINT.

RELIEF AIR AND BUILDING PRESSURE CONTROL:

A DIFFERENTIAL PRESSURE TRANSDUCER SHALL ACTIVELY MONITOR THE DIFFERENCE IN PRESSURE BETWEEN THE BUILDING (INDOORS) AND OUTDOORS. IF THE BUILDING PRESSURE INCREASES ABOVE THE DESIRED SETPOINT, THE ASSOCIATED CONTROLLER SHALL MODULATE THE RELIEF AIR DAMPER TO CONTROL BUILDING PRESSURE AT SETPOINT. IF THE BUILDING PRESSURE DECREASES BELOW THE DESIRED SETPOINT, THE ASSOCIATED CONTROLLER SHALL CLOSE THE RELIEF AIR DAMPER.

FILTER STATUS:

A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER(S) WHEN THE FAN IS RUNNING. IF THE SWITCH CLOSES DURING NORMAL OPERATION A DIRTY FILTER ALARM SHALL ANNUNCIATE AT THE BAS.

SMOKE DETECTOR SHUTDOWN:

THE UNIT SHALL SHUT DOWN IN RESPONSE TO A SIGNAL FROM THE SMOKE DETECTOR INDICATING THE PRESENCE OF SMOKE. THE SMOKE DETECTOR SHALL BE INTERLOCKED TO THE UNIT THROUGH THE DRY CONTACTS OF THE SMOKE DETECTOR. A MANUAL RESET OF THE SMOKE DETECTOR SHALL BE REQUIRED TO RESTART THE UNIT.

PACKAGED AIR CONDITIONING UNIT W/ GAS HEAT SCHEDULE

MARK #	AHU DATA: NOMINAL TONS	TOTAL CFM	OA CFM	ESP	MOTOR HP	COOLING CAPACITY @ DESIGN CONDITIONS: EAT db/wb °F	LAT db/wb °F	AMBIENT °F	TOTAL MBH	SENSIBLE MBH	MIN. EER @ ARI	MIN. IEER @ ARI	# OF COMPR.	COMPR. RLA (EACH)	# OF FANS	OUTDOOR FAN FLA (EACH)	GAS HEATER DATA: OUTPUT MBH	INPUT (MBH)	# OF STAGES	FILTER TYPE	ELECTRICAL DATA: VOLTS	Hz	PHASE	MCA	MOCP	AREA SERVED	REMARKS
PACU#1	15	5,250	875	1.0"	3	80/67	55/55	94/77	185	137	10.8	12.2	2	1 @ 30.9 1 @ 16.4	2	2.3 A	324	400	MOD.	2" PLEATED	208	60	3	78 A	100 A	GYMNASIUM	SZVAV (2)(3)(4)(5)(6)(7)(8)(9)(10)(11)(12)(13)(14)(15)(16)(17)(18)(19)(20)(21)(22)(23)(24)(25)(26)(27)(28)(29)(30)(31)(32)

NOTES:
1. PROVIDE WITH SINGLE POINT POWER CONNECTION.
2. SMOKE DETECTORS WITH WEATHERPROOF COVER SHALL BE MOUNTED IN THE SUPPLY AND RETURN AIR DUCT SYSTEM. DETECTORS SHALL BE PROVIDED BY DIV. 16, INSTALLED BY DIV. 15, AND WIRED BY DIV. 16.
3. EXTERNAL STATIC PRESSURE DROP DOES NOT INCLUDE FILTERS OR AUXILIARY HEATER.
4. PROVIDE WITH STANDARD MOTOR.
5. PROVIDE WITH LOW AMBIENT KIT FOR COOLING OPERATION DOWN TO 0°F.
6. PROVIDE WITH ANTI–SHORT CYCLE TIMER.
7. UNIT SHALL HAVE SINGLE ZONE VARIABLE AIR VOLUME CONTROL.
8. REFRIGERANT TYPE SHALL BE R–410A.
9. ENERGY EFFICIENCY RATIO (EER) AND IEER RATED @ ARI CONDITIONS.
10. PROVIDE WITH FACTORY INSTALLED CONDENSER COIL GUARDS.
11. PROVIDE WITH FACTORY INSTALLED CONDENSER COIL GUARDS.
12. PROVIDE WITH STAINLESS STEEL IAQ DRAIN PAN SLOPED IN TWO DIRECTIONS.
13. FILTERS SHALL HAVE A MINIMUM MERV 8 RATING.
14. TRAP CONDENSATE AT UNIT AND ROUTE FULLY INSULATED CONDENSATE DRAIN LINE TO TERMINATE AS SHOWN ON PLANS. CONDENSATE DRAIN LINE SHALL BE COPPER OR PVC. SEE CONDENSATE DRAIN DETAIL. PROVIDE PADS, BASE RAILS, AND/OR CURBS OF SUFFICIENT HEIGHT TO ENABLE CORRECT TRAP DEPTH.
15. PROVIDE FACTORY INSTALLED CONDENSATE OVERFLOW SWITCH IN PRIMARY DRAIN PAN IN ACCORDANCE WITH UL508 TO SHUT DOWN UNIT PRIOR TO PAN OVERFLOW.
16. MODULATING DAMPER IN OUTSIDE AIR INTAKE SHALL REMAIN OPEN DURING ALL OCCUPIED TIMES AND SHALL BE CLOSED OTHERWISE. DAMPER SHALL MODULATE BETWEEN MINIMUM AND MAXIMUM POSITIONS BASED ON SPACE CO2 LEVELS (1,000 PPM) DURING OCCUPIED HOURS. PROVIDE NECESSARY AIRFLOW CONTROLS FOR VARYING OUTSIDE AIR REQUIREMENTS.
17. PROVIDE UNIT WITH FACTORY PROVIDED HUMIDITY SENSOR FOR SPACE HUMIDITY CONTROL VIA MODULATING HOT GAS REHEAT.
18. UNIT SHALL HAVE A MINIMUM OF 5 STAGES OF COOLING OR VARIABLE SPEED COMPRESSOR CONTROL.
19. BASIS OF DESIGN: TRANE YSJ.
20. PROVIDE WITH MANUFACTURER'S ON BOARD CONTROLLER FOR CONTROL OF ALL UNIT OPERATIONS. CONTROLLER SHALL INTERFACE WITH SCHOOL BOARD'S EXISTING CONTROLS PROVIDER (SIEMENS) VIA BACNET CARD. PROVIDE WITH SUPPLY FAN FAILURE SWITCH. IF AIRFLOW IS NOT PROVEN BY THE DP SWITCH WITHIN 40 SECONDS, THE CONTROLLER SHALL SHUT DOWN UNIT AND SEND AN ERROR MESSAGE TO THE BUILDING AUTOMATION SYSTEM (BAS).
21. PROVIDE WITH PHASE MONITOR.
22. EQUIPMENT SHALL BE PAD MOUNTED ON GRADE. GENERAL CONTRACTOR SHALL PROVIDE CONCRETE HOUSEKEEPING PAD AND ENSURE PAD IS LEVEL PRIOR TO EQUIPMENT INSTALLATION.
23. PROVIDE WITH THE FOLLOWING EXTENDED MANUFACTURER WARRANTIES: PARTS (2–5YR.), LABOR (2–5YR.), & COMPRESSOR (6–10YR.).
24. PROVIDE WITH FACTORY INSTALLED CO2 SENSOR WIRING.
25. PROVIDE WITH TOOL–LESS HAIL GUARDS.
26. PROVIDE WITH ENHANCED DEHUMIDIFICATION OPERATION TO ALLOW MODULATION OF AIRFLOW AND COMPRESSOR OPERATION FOR ADDITIONAL MOISTURE REMOVAL.
27. PROVIDE WITH FREEZE STAT.
28. PROVIDE WITH MANUFACTURER'S ZONE SENSOR FOR SINGLE ZONE VAV OPERATION. (2–SPEED FAN OPERATION IS NOT ACCEPTABLE).
29. PROVIDE WITH HIGH SHORT CIRCUIT CURRENT RATING. SEE SPECIFICATIONS.
30. PROVIDE WITH ZONE SENSOR BY UNIT MANUFACTURER.
31. PROVIDE CONDENSER COIL WITH CORROSION PROTECTION COATING PASSING 5,000–HOUR SALT SPRAY TEST IN ACCORDANCE WITH ASTM B117.
32. CONTRACTOR SHALL FIELD INSTALL AIR PURIFICATION DEVICE (BI–POLAR IONIZATION). REFER TO SPECIFICATIONS. BI–POLAR DEVICE SHALL DE–ENERGIZE WHEN SUPPLY FAN IS OFF.

INTERNATIONAL MECHANICAL CODE 2021 VENTILATION RATE CALCULATIONS

UNIT	ROOM NAME	OCCUPANCY CATEGORY	AREA Az	PEOPLE OUTDOOR RATE (CFM/PERSON) Rp	AREA OUTDOOR RATE (CFM/SF) Ra	OCCUPANT DENSITY (# OF PEOPLE) Pz	PEOPLE OA RATE Rp*Pz (CFM)	AREA OA RATE Ra*Az (CFM)	BREATHING ZONE OA FLOW, Vbz (CFM)	ZONE AIR EFFECTIVENESS	ZONE OA FLOW, Voz (CFM)	ZONE COOLING PRIMARY AIR FLOW (CFM)	VENTILATION REQUIRED (CFM)	VENTILATION SCHEDULED (CFM)
PWHPU#1–#5	PRESSBOX ROOMS	OFFICE SPACE	85	5	.06	1	5	5.1	10	1.0	10	275	10	10

PACKAGED WALL HEAT PUMP UNIT SCHEDULE

MARK	AIR DATA: TOTAL CFM	OA CFM	COOLING CAPACITY: AMBIENT °F	EDB °F	EWB °F	TOTAL BTU/HR	HEATING CAPACITY @ ARI STANDARD CONDITIONS: EDB °F	AMBIENT °F	TOTAL BTU/HR	COOLING FLA	HEATING FLA	STRIP HEAT KW	MIN. EER	MIN. COP	T'STATS	ELECTRICAL DATA: VOLTS	Hz	PHASE	REMARKS
PWHPU #1–5	275	10	95	80	67	7,200	70	47	6,600	3.5	3.2	3.4	13.0	4.0	INTEGRAL	208	60	1	(1)(2)(3)(4)(5)

NOTES:
1. PROVIDE AND CONTROL WITH REMOTE WIRELESS DIGITAL WALL MOUNTED THERMOSTAT.
2. PROVIDE WITH MANUFACTURER'S INSULATED WALL SLEEVE.
3. PROVIDE UNIT WITH INTERNAL CONDENSATE REMOVAL SYSTEM TO PERMIT UNIT TO AUTOMATICALLY DISPOSE OF ITS GENERATED CONDENSATE WATER WITH NO OVERFLOW TO OUTDOORS.
4. PROVIDE 10 CFM OUTDOOR AIR AS INTEGRAL PART OF UNIT.
5. BASIS OF DESIGN IS GE ZONELINE SERIES.

FAN SCHEDULE

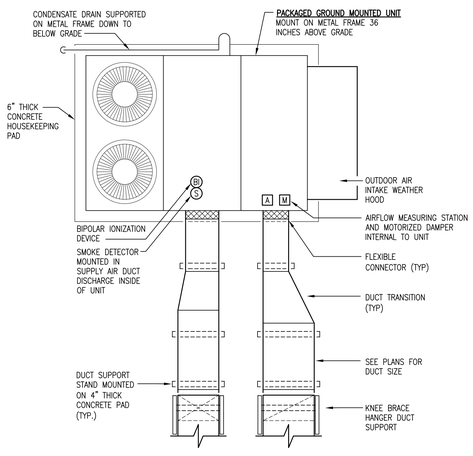
MARK #	TOTAL CFM	TSP IN WC	MAX RPM	TYPE DRIVE (2)	TYPE FAN (1)	CONTROL (8)	INTERLOCK WITH	MOTOR HP/WATTS	MAX SONES	ELECTRICAL DATA: VOLTS	Hz	PHASE	FAN SERVICE	REMARKS
EF#1	250	0.5"	1080	DD	CEF	INTM.	LIGHT SWITCH	135 W	5.5	120	60	1	BOYS A104	(3)(4)(5)(6)(7)(14)
EF#2	50	0.5"	1080	DD	CEF	INTM.	LIGHT SWITCH	80 W	2.5	120	60	1	JANITOR A102	(3)(4)(5)(6)(7)(14)
EF#3	200	0.5"	1080	DD	ILF	INTM.	PACU#1	135 W	5.5	120	60	1	VESTIBULE A105	(3)(4)(5)(6)(7)(14)
EF#4	910	0.5"	1080	DD	CEF	INTM.	LIGHT SWITCH	80 W	2.5	120	60	1	GIRLS A103	(3)(4)(5)(6)(7)(14)

NOTES:
1. CEF – CEILING MOUNTED
   ILF – INLINE FAN
   UVS– UTILITY VENT SET
2. DD – DIRECT DRIVE
   BD – BELT DRIVE
3. PROVIDE WITH FAN SPEED CONTROLLER. CONTROLLER SHALL BE MOUNTED TO FAN.
4. PROVIDE WITH INTEGRAL DISCONNECT.
5. PROVIDE MOTOR WITH THERMAL OVERLOAD.
6. PROVIDE WITH INTEGRAL GRAVITY BACKDRAFT DAMPER.
7. PROVIDE WITH ALUMINUM GRILLE. PLASTIC GRILLES WILL NOT BE ACCEPTABLE.
8. CONT. – FAN FUNS CONTINUOUSLY DURING OCCUPIED HOURS SUBJECT TO INTERLOCK CONTROL
   INTM. – INTERMITTENTLY
9. FAN MOTORS 1/12 HORSEPOWER OR GREATER AND LESS THAN 1 HORSEPOWER SHALL BE ELECTRONICALLY COMMUTATED OR HAVE A MINIMUM EFFICIENCY OF 70% WHEN RATED IN ACCORDANCE WITH DOE 10 CFR 431. THESE MOTORS SHALL ALSO HAVE THE MEANS TO ADJUST MOTOR SPEED FOR EITHER BALANCING OR REMOTE CONTROL. BELT DRIVEN FANS MAY USE SHEAVE ADJUSTMENTS FOR AIR FLOW BALANCING IN LIEU OF VARYING MOTOR SPEED.

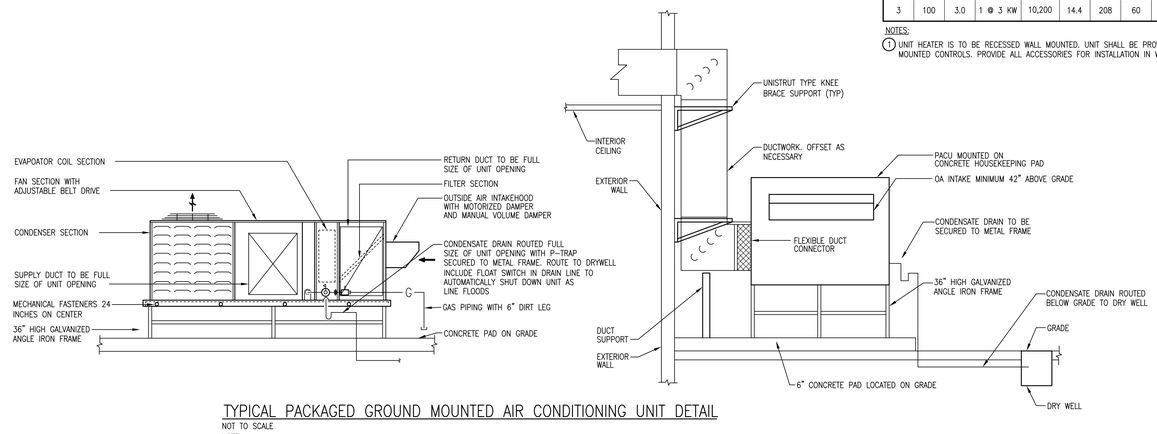
ELECTRIC UNIT HEATER SCHEDULE

MARK EUH#	CFM	HEATING CAPACITY: INPUT KW	STAGES	OUTPUT BTU/HR	ELECTRICAL DATA: AMPS	VOLTS	Hz	PHASE	REMARKS
1	100	3.0	1 @ 3 KW	10,200	14.4	208	60	1	(1)
2	100	3.0	1 @ 3 KW	10,200	14.4	208	60	1	(1)
3	100	3.0	1 @ 3 KW	10,200	14.4	208	60	1	(1)

NOTES:
1. UNIT HEATER IS TO BE RECESSED WALL MOUNTED. UNIT SHALL BE PROVIDED WITH WALL MOUNTED CONTROLS. PROVIDE ALL ACCESSORIES FOR INSTALLATION IN WALL.



TYPICAL PACKAGED GROUND MOUNTED AIR CONDITIONING UNIT DETAIL (PLAN VIEW)
NOT TO SCALE (SCHEMATIC)



TYPICAL PACKAGED GROUND MOUNTED AIR CONDITIONING UNIT DETAIL
NOT TO SCALE
NOTE:
PACKAGED UNIT MOUNTED 36 INCHES ABOVE 6 INCH THICK CONCRETE SLAB ON GALVANIZED ANGLE IRON FRAME. SECURE UNIT TO FRAME AND FRAME TO CONCRETE PAD WITH MECHANICAL FASTENERS. PAD SHALL BE 6 INCHES LARGER THAN UNIT IN ALL DIRECTIONS. EXTEND FROM UNIT, FULL SIZE OF OPENING, A CONDENSATE DRAIN WITH P–TRAP. ROUTE CONDENSATE DRAIN ALONG FRAME TO TURN DOWN TO 6 INCHES BELOW GRADE. TERMINATE DRAIN LINE WITH DRY WELL. INCLUDE A FLOAT SWITCH IN DRAIN PAN INSIDE OF UNIT TO AUTOMATICALLY SHUT DOWN UNIT AS DRAINAGE SYSTEM FLOODS

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ADDITIONS TO ELBERTA HIGH SCHOOL FOR THE BALDWIN COUNTY BOARD OF EDUCATION
BAY MINETTE, ALABAMA

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

STATE OF ALABAMA
No. 14948
PROFESSIONAL
ARCHITECT
10-04-23

SHEET TITLE : HVAC SCHEDULES

MCKEE JOB # : 23.192

DRAWN BY : AWB

DATE: 10.04.23

REVISED DATE:

REVISED DATE:

REVISED DATE:

SHEET NO. : M2.1

- M:\Jobs_Active\23138 Elberta High School Additions\23138M21.dwg
- Wednesday, October 4, 2023 10:04:34 AM
AWB> M:\Jobs_Active\23138 Elberta High School Additions\23138M21.dwg 09/27/23 09:54

LIGHTING SYMBOL LEGEND

SYMBOL	DESCRIPTION
(fixture symbols)	"LED" LIGHTING FIXTURE. LETTER(S) DENOTE TYPE – SEE LIGHTING FIXTURE SCHEDULE.
(shaded fixture symbol)	"LED" LIGHTING FIXTURE WITH INTEGRAL BATTERY BACKUP.
(circle symbols)	LED LIGHTING FIXTURE. LETTER(S) DENOTE TYPE – SEE LIGHTING FIXTURE SCHEDULE.
(exit symbols)	"LED" EXIT LIGHT WITH BATTERY. DARKENED QUADRANTS INDICATE ILLUMINATED FACES, ARROWS AS INDICATED. LETTER(S) DENOTE TYPE – SEE LIGHTING FIXTURE SCHEDULE.
$	20 AMP, 120/277 VAC SINGLE POLE TOGGLE SWITCH – FLUSH WALL MOUNTED 48" A.F.F. UNLESS NOTED OTHERWISE. SUBSCRIPT INDICATES AS FOLLOWS: 3 – 20 AMP, 120/277 VAC THREE WAY TOGGLE SWITCH 4 – 20 AMP, 120/277 VAC FOUR WAY TOGGLE SWITCH DT – DUAL TECHNOLOGY MOTION SENSOR WALL SWITCH. WATTSTOPPER DW-100. TIME DELAY DURATION SHALL BE 20 MINUTES MAXIMUM. PROGRAM FOR "MANUAL ON". MO,D – LOW VOLTAGE MANUAL ON AND DIMMING WALL SWITCH EQUAL TO WATTSTOPPER DCLV2. SEE LIGHTING PLANS AND DETAILS FOR ADDITIONAL REQUIREMENTS. PROGRAM FOR "MANUAL ON". PROVIDE ALL 0–10V WIRING AS REQUIRED. D – 0–10V DIMMING ONLY SWITCH EQUAL TO WATTSTOPPER DCLV2. SEE LIGHTING PLANS AND DETAILS FOR ADDITIONAL REQUIREMENTS. PROVIDE ALL 0–10V WIRING AS REQUIRED. M – 30 AMP SWITCH EQUAL TO HUBBELL HBL7832D OR HBL7810D, AS REQUIRED. PROVIDE PHENOLIC LABEL.
(sensor symbol)	DUAL TECHNOLOGY CEILING-MOUNTED 360° OCCUPANCY SENSOR, WATTSTOPPER DT-305. SEE LIGHTING CONTROL WIRING DIAGRAM FOR ADDITIONAL INFORMATION. MOUNT AT LOCATION AS INDICATED ON PLANS. DEVICE SHALL BE PROGRAMMED FOR "AUTOMATIC ON" (UNLESS INDICATED WITH $MO). PROGRAM SUCH THAT BOTH TECHNOLOGIES ARE REQUIRED TO TRIGGER LIGHTS "ON" AND EITHER TECHNOLOGY SHALL "HOLD" LIGHTS "ON". SEE PLANS FOR SENSOR LOCATIONS THAT ARE "MANUAL ON" ONLY $MO. TIME DELAY DURATION SHALL BE 30 MINUTES. SEE MANUFACTURERS INSTRUCTIONS FOR APPROPRIATE DIP SWITCH SETTINGS.
PP	POWER PACK RELAY FOR CONTROL OF LIGHTING CONTROLS, EQUAL TO WATTSTOPPER CAT# BZ-50. MOUNT DEVICE IN AN ACCESSIBLE LOCATION.

SYMBOLS NOTES:

1. ALL DEVICES ARE TO BE FLUSH MOUNTED.
2. MOUNTING HEIGHTS ARE FROM THE CENTER LINE OF THE DEVICE.
3. ALL SINGLE GANG AND TWO GANG DEVICES SHALL USE A 4" SQ. BOX WITH EXTENSION RING.
4. ALL MULTI – GANG DEVICES SHALL USE A COMMON COVER PLATE
5. COLORS FOR ALL DEVICES (i.e. SWITCHES, RECEPTACLES, TELEPHONE OUTLETS, ETC.) AND THEIR COVER PLATES SHALL BE DETERMINED BY THE ARCHITECT.

LIGHTING FIXTURE SCHEDULE

- LIGHTING MANUFACTURERS OTHER THAN THOSE LISTED IN THIS SCHEDULE SHALL SUBMIT PRIOR APPROVAL NO LESS THAN 10 DAYS PRIOR TO BID. NO FIXTURES WILL BE REVIEWED AFTER THE 10 DAY DEADLINE, NO EXCEPTIONS. SUBSTITUTE PACKAGES MAY BE RESUBMITTED ONE TIME FOLLOWING THE INITIAL ENGINEER'S REVIEW. FAILURE TO PROVIDE AN APPROVED EQUIVALENT PACKAGE WILL RESULT IN DISAPPROVAL OF THE ENTIRE SUBSTITUTE PACKAGE. MANUFACTURERS NOT APPROVED PRIOR TO BID SHALL NOT BE SUBMITTED FOR CONSTRUCTION.
- THE LIGHTING PACKAGE SUBMITTED FOR CONSTRUCTION SHALL MEET OR EXCEED THE LIGHTING SPECIFICATIONS AND FIXTURE SCHEDULE, AND COMPLY WITH THE DESIGN AND FUNCTIONALITY REQUIREMENTS SHOWN ON THE LIGHTING PLANS, NO EXCEPTIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THEIR LIGHTING PACKAGE IS EQUAL TO THE SPECIFICATIONS AND PLANS PRIOR TO BIDDING. ANY FIXTURE PACKAGE SUBMITTED FOR REVIEW DURING THE CONSTRUCTION PHASE THAT IS NOT EQUAL TO THE SPECIFICATIONS AND PLANS WILL BE REJECTED. THE ACCEPTANCE OF AN EQUAL PACKAGE SHALL BE AT THE SOLE DISCRETION OF THE ARCHITECT AND ENGINEER. ANY ADDITIONAL COSTS INCURRED BY BRINGING AN INFERIOR LIGHTING PACKAGE UP TO THE STANDARDS OF THE SPECIFICATIONS AND PLANS DUE TO LACK OF QUALITY AND/OR FUNCTION OF DESIGN SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND HIS/HER LIGHTING SUPPLER. THESE REQUIREMENTS SHALL ALSO BE INCLUSIVE OF ALL LIGHTING CONTROL SYSTEMS.

MARK	LUMENS	WATTS	TYPE	MOUNTING	MANUFACTURER AND CATALOG NUMBER	NOTES
L5A L5AE	4800	28.0W	LED 35K	RECESSED GRID	LITHONIA 2BLT4-48L-ADSM-MVOLT-GZ1-LP835 LITHONIA 2BLT4-48L-ADSM-MVOLT-GZ1-LP835-EL7L OR PRIOR APPROVED EQUALS BY LITHONIA OR EATON	
EX	N/A	1W	LED RED	UNIVERSAL	CHLORIDE ER55LD3R EMERGILITE BAPXN1R ASTRALITE DCA-R-BA-EM-SD	PROVIDE ARROWS AS INDICATED ON PLANS.
HQ1	18,000	142W	LED	SUSPENDED 20'0" AFF	DAYBRITE FBY-18L-840-UNV-LCA-FBYWG-HCH10-VHOOK LITHONIA IBG-18000LM-SEF-ACL-GND-MVOLT-GZ10-40K-80CRI-DWH-IBAC120M100-WGIBG24W METALUX OHB-18SE-MCL-UNV-L840-CD-OHB-WG162-Y-TOGGLE	SO CORD IS NOT APPROVED FOR FIXTURE POWER CONNECTION
HQ1E	18,000	142W	LED	SUSPENDED 20'0" AFF	DAYBRITE LITHONIA IBG-18000LM-SEF-ACL-GND-MVOLT-GZ10-40K-80CRI-DWH-IBAC120M100-E20WCPHE-WGIBG24 METALUX OHB-18SE-MCL-UNV-L840-EL20W-CD-OHB-WG162-Y-TOGGLE	SO CORD IS NOT APPROVED FOR FIXTURE POWER CONNECTION.
WP1 WP1E	3200	90W	LED	WALL MOUNT 10'0" AFF	HUBBELL NO. TRP2-32L-90-4K8-3-UNV-DBT HUBBELL NO. TRP2-32L-90-4K8-3-UNV-DBT-E OR PRIOR APPROVED EQUALS BY LITHONIA OR EATON	
EM	536	15W	LED	WALL MOUNT 10'0" AFF	LITHONIA NO. ELMLT – MVOLT – EHO – SD – WIREGUARDS OR PRIOR APPROVED EQUAL EATON OR DUAL LITE	1000 LUMEN LED EMERGENCY WALL PACK
PL2	22000	210W	LED	POLE MOUNT 30'0" AFF	H.E. WILLIAMS VA1-L220-730-T4-F-D180-(BLK) OR PRIOR APPROVED EQUAL EATON OR DUAL LITE	POLE: HE WILLIAMS AV30-A-160-40-188-T-TM238-(BLK) -AB

EQUIPMENT SCHEDULE NOTES:

1. COORDINATE WITH THE MECHANICAL CONTRACTOR TO ENSURE ALL DISCONNECTS AND/OR VFD'S ARE PROVIDED AS REQUIRED.
2. INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT. COORDINATE REQUIREMENTS WITH THE MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
3. DISCONNECT SWITCH SHALL BE FULLY RECESSED IN WALL

EQUIPMENT COORDINATION GENERAL NOTES:

1. COORDINATE WITH THE MECHANICAL CONTRACTOR TO ENSURE ALL DISCONNECTS AND/OR VFD'S ARE PROVIDED AS REQUIRED.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE INTERLOCKING CONNECTIONS FOR ALL HVAC EQUIPMENT AS REQUIRED. REFER TO THE MECHANICAL SCHEDULES FOR EXACT INTERLOCKING INFORMATION.
3. ALL EXHAUST FAN INTERLOCKS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. REFER TO THE EXHAUST FAN SCHEDULE FOR INTERLOCKING REQUIREMENTS.
4. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION, WIRING AND CONNECTION OF ALL EQUIPMENT WITH THE EQUIPMENT INSTALLER PRIOR TO INSTALLATION.
5. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A 4" SQUARE OUTLET BOX WITH SINGLE GANG PLASTER RING FOR EACH THERMOSTAT. PLASTER RING SHALL BE MOUNTED IN A VERTICAL ORIENTATION. 56" A.F.F. TO CENTER UNLESS NOTED OTHERWISE. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A 3/4" CONDUIT FROM THERMOSTAT OUTLET BOX UP IN WALL TO 6" ABOVE CEILING HEIGHT AND OUT OF WALL. EXTEND CONDUIT TO AREA WITH ACCESSIBLE CEILING. LABEL CONDUIT ABOVE ACCESSIBLE CEILING WITH SERVED THERMOSTAT LOCATION. CONDUIT SHALL HAVE NYLON INSULATING BUSHING ON EACH END. PROVIDE PULL STRING IN CONDUIT. REFER TO MECHANICAL DRAWINGS FOR THERMOSTAT LOCATIONS. MOUNT UNIT HEATER THERMOSTATS AS REQUIRED.
6. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A DEDICATED, 20 AMP, 120 VOLT CIRCUIT FOR EACH HVAC CONTROL PANEL. REFER TO MECHANICAL DRAWINGS FOR HVAC CONTROL PANEL LOCATIONS.
7. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL EQUIPMENT SITE SWITCHES PRIOR TO INSTALLATION.
8. ALL DISCONNECTS FOR EQUIPMENT SHALL BE MOUNTED SECURELY TO THE FLOOR OR STRUCTURE. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL UNISTRUT AND MOUNTING HARDWARE AS REQUIRED TO MOUNT THE DISCONNECTS. ALL EXTERIOR DISCONNECTS SHALL BE NEMA-3R.
9. CIRCUIT BREAKERS SERVING EQUIPMENT ARE BASIS OF DESIGN ONLY. EXACT CIRCUIT BREAKER AND CONDUCTOR SIZES SHALL BE COORDINATED WITH ACTUAL EQUIPMENT BEING INSTALLED PRIOR TO ORDERING OF PANELBOARD. ANY COST INCREASE ASSOCIATED WITH INCREASED CIRCUIT REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE EQUIPMENT INSTALLER. ELECTRICIAN SHALL SIZE CIRCUIT BREAKERS, CONDUCTORS, CONDUITS, AND DISCONNECTS IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND INDICATE THE APPROPRIATE CHANGES ON AS-BUILT DOCUMENTS.
10. IN ALL MECHANICAL ROOMS, COORDINATE WITH THE MECHANICAL CONTRACTOR TO ENSURE CODE REQUIRED CLEARANCES AND WORKING SPACES ARE MAINTAINED AT ALL ELECTRICAL EQUIPMENT.

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
(panelboard symbol)	PANELBOARD – SEE RESPECTIVE PANELBOARD SCHEDULE.
A/1	BRANCH CIRCUIT CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING. ARROWS INDICATE CIRCUIT HOMERUN, HASHMARKS INDICATE NUMBER OF CONDUCTORS, ABSENCE OF HASHMARKS INDICATES TWO CONDUCTORS PLUS GROUND. "A" DENOTES PANELBOARD SERVING CIRCUIT, "1" INDICATES CIRCUIT BREAKER SPACE IN PANELBOARD. SEE RESPECTIVE PANEL CIRCUIT SCHEDULE. MINIMUM CONDUCTOR SIZE = #12 AWG.
(dashed arc)	INDICATES CONDUIT RUN UNDERGROUND.
(disconnect symbol)	NON-FUSED DISCONNECT, HEAVY DUTY (SAFETY) SWITCH – SIZE AND TYPE AS NOTED. TOP OF SWITCH 6'-6" A.F.F. PROVIDE MECHANICALLY FASTENED PHENOLIC LABEL.
(motor symbol)	ELECTRIC MOTOR – SEE RESPECTIVE EQUIPMENT SCHEDULE.
(receptacle symbol)	20A, 125 VAC 2P., 3W., GROUNDING TYPE, DUPLEX RECEPTACLE. FLUSH WALL MOUNTED 18" A.F.F. WITH GROUND PIN FACING UP UNLESS NOTED OTHERWISE. RESISTANT TYPE.
(GFCI symbol)	INDICATES GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE. FLUSH WALL MOUNTED 18" A.F.F. WITH GROUND PIN FACING UP UNLESS NOTED OTHERWISE. RECEPTACLE SHALL BE READILY ACCESSIBLE. DEVICE SHALL BE LISTED TAMPER RESISTANT TYPE.
J	JUNCTION BOX LOCATION. SIZE AND TYPE AS REQUIRED.
C	INDICATES DEVICE FLUSH MOUNTED IN BACKSPLASH: BOTTOM AT 37" INSTALL HORIZONTALLY.
WP	INDICATES WEATHER RESISTANT WIRING DEVICE WITH CAST ALUMINUM WEATHER PROOF IN-USE COVER PLATE.
(data symbol)	DATA OUTLET IN A 4" SQUARE BOX WITH 1 GANG EXTENSION RING. DEVICE MOUNTED 18" AFF UNLESS NOTED OTHERWISE. STUB 3/4"C FROM BACKBOX TO 6" ABOVE ACCESSIBLE CEILING, PROVIDE CONDUIT BUSHINGS. PROVIDE 1-CAT5E DATA CABLE BACK TO COMMUNICATIONS BACKBOARD. PROVIDE 1-PORT COVER PLATE. COVER PLATE SHALL BE LABELED WITH DATA CLOSET ROOM NUMBER, DATA DROP NUMBER, AND LOCATION OF SERVING DATA CLOSET. ALL CABLES SHALL BE TESTED AND TERMINATED AT OUTLET AND COMMUNICATION BACKBOARD. INSTALLER SHALL HAVE RCDD ON STAFF. SEE SHEET E700.5.
P	A/V BOX FOR CEILING MOUNTED PROJECTOR. BOX SHALL BE RECESSED IN CEILING. PROVIDE FACE PLATE AS REQUIRED. COORDINATE WITH PROJECTOR INSTALLER FOR ALL REQUIREMENTS. PROVIDE ALL CONNECTIONS AS REQUIRED. SEE PLANS FOR ADDITIONAL REQUIREMENTS.
WAP	CEILING MOUNTED WIRELESS ACCESS POINT COMMUNICATIONS OUTLET.
(transmitter symbol)	TRANSMITTER/SWITCHER @ 96" WITH 2X HDMI AND 1X USB-C INPUT WITH RS-232 CONTROL, SHALL BE TPUH701T OR EQUAL.
TV	COORDINATE DEVICE LOCATION WITH CATV OUTLET. DEVICE SHALL BE INSTALLED ADJACENT TO CATV OUTLET.
P	COORDINATE DEVICE LOCATION WITH PROJECTOR LOCATION
F	FIRE ALARM SYSTEM ADDRESSABLE PULL STATION – SEMI FLUSH MOUNTED 48" A.F.F. TO TOP UNLESS NOTED OTHERWISE.
FS	SPRINKLER SYSTEM FLOW SWITCH. FURNISHED BY FIRE ALARM SYSTEM SUPPLIER, INSTALLED BY FIRE PROTECTION (SPRINKLER) SYSTEM CONTRACTOR, AND CONNECTED TO FIRE ALARM SYSTEM CONTROL PANEL BY FIRE ALARM SYSTEM CONTRACTOR.
TS	SPRINKLER SYSTEM TAMPER SWITCH. FURNISHED BY FIRE ALARM SYSTEM SUPPLIER, INSTALLED BY FIRE PROTECTION (SPRINKLER) SYSTEM CONTRACTOR, AND CONNECTED TO FIRE ALARM SYSTEM CONTROL PANEL BY FIRE ALARM SYSTEM CONTRACTOR.
SD	ADDRESSABLE INTELLIGENT CEILING MOUNTED FIRE ALARM SYSTEM PHOTOELECTRIC TYPE SMOKE DETECTOR WITH BASE.
F (speaker/strobe)	FIRE ALARM SYSTEM SPEAKER / STROBE DEVICE FLUSH WALL MOUNTED UNLESS NOTED OTHERWISE. CANDELA RATING OF 75 UNLESS NOTED. ALL STROBES IN COMMON SPACES OR CORRIDORS SHALL BE SYNCHRONIZED. "WP" INDICATES WEATHERPROOF DEVICE MOUNTED TO WEATHERPROOF ENCLOSURE.
F (visual)	FIRE ALARM SYSTEM VISUAL DEVICE FLUSH WALL MOUNTED UNLESS NOTED OTHERWISE. CANDELA RATING OF 75 UNLESS NOTED. ALL STROBES IN COMMON SPACES OR CORRIDORS SHALL BE SYNCHRONIZED.
DDC	DIGITAL ROOM CONTROLLER WITH ONE ZONE ON/OFF/DIMMING EQUAL TO WATTSTOPPER LMRC-211. SEE LIGHTING PLANS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION. MOUNT DEVICE IN AN ACCESSIBLE LOCATION. PROVIDE ALL 0-10V WIRING FROM CONTROLLER TO FIXTURES, AS REQUIRED. ALL ROOM CONTROLLERS SHALL BE INTERCONNECTED WITH CAT5E CABLING. ALL CAT5E SHALL BE PRE-ATERMINATED.
(camera symbol)	NEW CCTV CAMERA.
OS	WALL MOUNTED OCCUPANCY SENSOR WITH WIRE GUARD – HUBBELL NO. LO-IR-WV
HD	ADDRESSABLE INTELLIGENT FIRE ALARM SYSTEM HEAT DETECTOR RATE OF RISE TYPE. SHALL HAVE 50 FOOT SPACING.
SP	GYMNASIUM LOUD SPEAKER. SEE FLOOR PLAN FOR REQUIREMENTS.

SYMBOLS NOTES: UNLESS OTHERWISE NOTED THE FOLLOWING SHALL APPLY:

1. ALL OUTLETS SHALL BE FLUSH MOUNTED.
2. MOUNTING HEIGHTS ARE FROM THE CENTER LINE OF THE DEVICE.
3. ALL SINGLE GANG AND TWO GANG DEVICES SHALL USE A 4" SQ. BOX WITH EXTENSION RING.
4. ALL MULTI – GANG DEVICES SHALL USE A COMMON COVER PLATE
5. COLORS FOR ALL DEVICES (i.e. SWITCHES, RECEPTACLES, TELEPHONE OUTLETS, ETC.) AND THEIR COVER PLATES SHALL BE DETERMINED BY THE ARCHITECT.
6. A.F.F. INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR.
7. ALL WIRING SHALL BE COPPER.
8. DO NO INSTALL OUTLETS BACK TO BACK.
9. PROVIDE INDICATES THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL.
10. WHERE MORE THAN 3 CURRENT CARRYING CONDUCTORS MAY BE RUN IN A SINGLE CONDUIT, NEC SECTION 310.15 SHALL APPLY.

PANEL P1 SCHEDULE

NEMA 1, FLUSH MOUNT
400A M.C.B. 208Y/120V 3Ø 4W — 35,000 AIC RATING

CKT NO.	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA	KVA	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT NO.
1	HVAC RECEPTACLES	1	20	0.2	1.0	20	1	C101 RECEPTACLES	2
3	WATER FOUNTAINS	1	20	1.4	1.2	20	1	C101 RECEPTACLES	4
5	EXTERIOR SIGN	1	20	1.8	1.2	20	1	C101 RECEPTACLES	6
7	EXTERIOR SIGN	1	20	1.8	0.6	20	1	RR'S, VEST., JAN. RECEPTACLES	8
9	EUH#1	2	40	6.0	0.1	20	1	DDC PANEL	10
11					0.1	20	1	DDC PANEL	12
13	FACP (L)	1	20	0.5	0.1	20	1	DDC PANEL	14
15	PACU#1	3	100	22.5	0.1	20	1	DDC PANEL	16
17					1.0	20	1	LTS RR'S, VEST., JAN.	18
19					0.5	20	1	LTS C101	20
21	C101 COMMUNICATIONS REC.	1	20	0.4	0.5	20	1	LTS C101	22
23	BATTING HOIST	1	30	2.3	0.5	20	1	LTS C101	24
25	BATTING HOIST	1	30	2.3	0.5	20	1	LTS C101	26
27	EUH#2	2	40	6.0	0.9	20	1	LTS OUTSIDE	28
29					45.5	150	3	PANEL PB	30
31	EUH#3	2	40	6.0					32
33									34
35	PARKING LOT LIGHTS	1	20	0.3	0.8	20	1	SOUND A106	36
37	ERCES	1	20	0.8	·	20	1	SPARE	38
39	SPARE	1	20	·	·	20	1	SPARE	40
41	SPARE	1	20	·	·	20	1	SPARE	42

CONNECTED LOAD 106.9 KVA

(G) PROVIDE GROUND-FAULT CIRCUIT-INTERRUPTER TYPE BREAKER.
(L) PROVIDE LOCKABLE MECHANISM FOR BREAKER.

PANEL PB SCHEDULE

NEMA 1, RECESSED MOUNT
150A M.C.B 208Y120V 3Ø 4W — 35,000 AIC

CKT NO.	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA	KVA	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT NO.
1	REC RM 5	1	20	1.8	1.8	20	1	REC RM 4	2
3	REC RM 3	1	20	1.8	1.8	20	1	REC RM 2	4
5	REC RM 1	1	20	1.8	1.2	20	1	REC PRESSBOX	6
7	PWHPU#1	2	30	4.8	4.8	30	2	PWHPU#2	8
9									10
11	PWHPU#3	2	30	4.8	4.8	30	2	PWHPU#4	12
13									14
15	PWHPU#5	2	30	4.8	1.2	20	1	REC TBB	16
17					0.7	20	1	LTG PRESSBOX INTERIOR	18
19	PA SYSTEM	1	20	1.8	0.5	20	1	LTS PRESSBOX EXTERIOR	20
21	PA SYSTEM	1	20	1.8	1.8	20	1	PA SYSTEM	22
23	PA SYSTEM	1	20	1.8	0.8	20	1	REC PRESS BOX FRONT	24
25	SCORE BOARD POWER	1	20	0.7	·	20	1	SPARE	26
27	SCORE BOARD RECEPTACLE	1	20	0.2	·	20	1	SPARE	28
29	SPARE	1	20	·	·	20	1	SPARE	30
31	SPACE	1	·	·	·	·	1	SPACE	32
33	SPACE	1	·	·	·	·	1	SPACE	34
35	SPACE	1	·	·	·	·	1	SPACE	36
37	SPACE	1	·	·	·	·	1	SPACE	38
39	SPACE	1	·	·	·	·	1	SPACE	40
41	SPACE	1	·	·	·	·	1	SPACE	42

CONNECTED LOAD 45.5 KVA

ELECTRICAL SPECIFICATIONS:

1. ALL ELECTRICAL WORK SHALL BE IN CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES AND ORDINANCES.
2. ALL WIRING SHALL BE COPPER CONDUCTORS WITH TYPE THHN OR TYPE THW INSULATION RUN IN CONDUIT. PROVIDE INDIVIDUAL NEUTRAL CONDUCTORS FOR ALL SINGLE-POLE BRANCH CIRCUITS. TIED BREAKER HANDLES ARE NOT ACCEPTABLE.
3. ALL MATERIALS SHALL BE NEW AND UL LISTED FOR THE APPLICATION.
4. PROVIDE TYPED PANELBOARD SCHEDULES IN ALL PANELBOARDS.
5. CONDUITS RUN CONCEALED IN THE HOLLOW SPACE OF NON-MASONRY WALLS OR ABOVE SUSPENDED CEILINGS SHALL BE EMT. FLEX SHALL NOT BE PERMITTED. EXPOSED CONDUITS SHALL BE RUN AT RIGHT ANGLES TO OR PARALLEL WITH BUILDING LINES AND EXPOSED STRUCTURE. IN ALL CASES, CONDUIT RUNS SHALL BE GROUPED TOGETHER WHERE POSSIBLE AND SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, NOT FOR ANY SUSPENDED CEILING SUPPORT SYSTEM.
6. CONDUITS USED FOR CONNECTION TO RECESSED LIGHTING FIXTURES SHALL BE FLEX NOT OVER 6 FEET IN TOTAL LENGTH. CONDUITS FOR CONNECTION TO MOTORS OR VIBRATING EQUIPMENT SHALL BE LQFLEX NOT LESS THAN 18" LONG AND NOT OVER 60" LONG.
7. LIGHTING FIXTURES SHALL BE INSTALLED PLUMB, SQUARE, AND LEVEL WITH THE CEILING, WALL, AND IN ALIGNMENT WITH ADJACENT LIGHTING FIXTURES. MOUNTING HEIGHTS INDICATED SHALL BE TO THE BOTTOM OF THE FIXTURE FOR CEILING-MOUNTED FIXTURES AND TO CENTER OF FIXTURE FOR WALL-MOUNTED FIXTURES. LAY-IN TROFFER FIXTURES SHALL BE SUPPORTED WITH A MINIMUM OF 4 CEILING SUPPORT WIRES PER FIXTURE AND NOT MORE THAN 6 INCHES FROM EACH CORNER OF THE FIXTURE. FOR FIXTURES SMALLER IN SIZE THAN THE CEILING GRID, PROVIDE A MINIMUM OF FOUR WIRES PER FIXTURE. DO NOT SUPPORT FIXTURES BY CEILING ACOUSTICAL PANELS. ALL CONCEALED FIXTURE MOUNTING ACCESSORIES SHALL BE SECURELY TIED TO STRUCTURE. FLEXIBLE CONNECTIONS TO FIXTURES SHALL NOT EXCEED 6 FEET IN LENGTH. FIXTURES SHALL BE SOLIDLY GROUNDED TO RACEWAY SYSTEM.

REFERENCE TYPICAL EXTERIOR AC/HP ELECTRICAL CONNECTION DETAIL FOR EXTERIOR DISCONNECT MOUNTING AND CONNECTION REQUIREMENTS FOR ALL EXTERIOR HVAC EQUIPMENT.

OVERALL ELECTRICAL GENERAL NOTES:

a. THE CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME FAMILIAR WITH THE EXTENT OF WORK REQUIRED TO COMPLETE THE JOB PRIOR TO BIDDING.
b. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO ROUGH IN AND INSTALLATION.
c. ALL PRIMARY CONDUIT SHALL BE RUN AT 48" BELOW FINISHED GRADE. ALL SECONDARY AND EXTERIOR UNDERGROUND BRANCH CIRCUIT CONDUIT(S) SHALL BE RUN 36" BELOW FINISHED GRADE.
d. IN ALL MECHANICAL ROOMS, ALL CONDUIT AND BOXES ARE TO BE SURFACE MOUNTED.
e. THE CONTRACTOR SHALL PROVIDE WEATHER PROOF / FIRE SEAL AS REQUIRED ON ALL EXTERIOR WALL PENETRATIONS.
f. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO PROVIDE ANY NECESSARY COMPONENTS (i.e. BOOSTER PANELS) AND MAKE ALL THE NECESSARY CONNECTIONS FROM THE NEW FIRE ALARM DEVICES AND JUNCTION BOX TO THE EXISTING FIRE ALARM CONTROL PANEL IN THE EXISTING ELECTRICAL ROOM AND THE TO ENSURE A FULLY FUNCTIONAL CAMPUS WIDE SYSTEM.
g. ALL PHASING OF WORK SHALL BE SCHEDULED WITH THE OWNER AND ARCHITECT PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL SCHEDULE ALL OUTAGES WITH THE OWNER AT LEAST (14) DAYS IN ADVANCE AND ANY GIVEN OUTAGE SHALL NOT BE A DURATION IN EXCESS OF (8) HOURS.
h. CONTRACTOR SHALL COORDINATE ALL UNDERGROUND WORK WITH OTHER EXISTING/NEW UTILITIES TO AVOID CONFLICT.

MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE

MARK	TYPE OF EQUIPMENT	VOLTAGE	MOCP	FEEDER	DISCONNECT	NOTES
EUH'S #1-3	ELECTRIC UNIT HEATER	208/1	40	3#8, #10, 0.75"C	$M	1
PWHPU'S #1-5	PACKAGE HEAT PUMP UNIT	208/1	30	3#10, #10G, 0.5"C	30/2 NEMA 1	1
PACU #1	PACKAGED A/C UNIT	208/3	100	3#3, #8G, 1.25"C	100/3 NEMA 3R	1

NOTES:
1. PROVIDE ALL VFD'S AND DISCONNECTS AS REQUIRED. COORDINATE WITH MECHANICAL EQUIPMENT SUPPLIER.

SOUND SYSTEM SPECIFICATIONS:

THE MAIN LOUDSPEAKERS ON THIS INSTALLATION SHALL BE MOUNTED ON LIGHT POLES BEHIND HOME SEATING – TWO LOUDSPEAKERS PER POLE WILL AIM AT HOME SEATING AND ONE SPEAKER WILL AIM TOWARD THE VISITORS SIDE BLEACHERS. TWO LOUDSPEAKERS WILL BE MOUNTED TO THE PRESS BOX TO PROVIDE COVERAGE FOR SEATING DIRECTLY IN FRONT OF PRESS BOX. THERE WILL ALSO BE A SUBWOOFER CABINET MOUNTED ON EACH LIGHT POLE TO PROVIDE LOW FREQUENCY EXTENSION FOR THE STADIUM.

ALL OF THE POWER AMPLIFIERS SHALL BE MOUNTED IN AN EQUIPMENT CABINET. THE POWER AMPLIFIERS AND ALL LINE LEVEL DEVICES SHALL BE POWERED OFF/ON, VIA A POWER SEQUENCER.

WORK INCLUDED

a. PROVIDE LABOR TO INSTALL COMPLETE AND WORKING SYSTEM. PROVIDE PROPER TOOLS, LADDERS, SCAFFOLDS, LIFTS, AND OTHER EQUIPMENT NECESSARY TO PERFORM INSTALLATION (INCLUDING SOUND SYSTEM COMPONENTS INSTALLED IN EQUIPMENT RACKS).
b. CABLE INSTALLATION AND TERMINATION
c. TRANSPORTATION SERVICES
d. TESTING AND ADJUSTMENT – PROVIDE PROPER TEST EQUIPMENT.
e. SUBMITTALS – INCLUDES PROJECT SCHEDULE, SHOP DRAWINGS, PRODUCT DATA, OPERATION AND MAINTENANCE MANUALS, PROJECT RECORD DRAWINGS, WARRANTIES, ETC.

SYSTEM COMMISSIONING

a. FINAL SYSTEM COMMISSIONING MUST BE COMPLETED BY A CERTIFIED DANLEY DESIGN CONTRACTOR.
b. TESTING EQUIPMENT MUST BE APPROVED BY LOUDSPEAKER MANUFACTURER.

SOUND PRODUCTS

a. LOUDSPEAKERS
   1. PROVIDE AND INSTALL (3) THREE DANLEY OS80 LOUDSPEAKERS (OR EQUAL) ON BOTH LIGHT POLES BEHIND HOME SEATING
   2. PROVIDE AND INSTALL (1) ONE DANLEY THMINI15 (OR EQUAL) ON BOTH LIGHT POLES BEHIND HOME SEATING

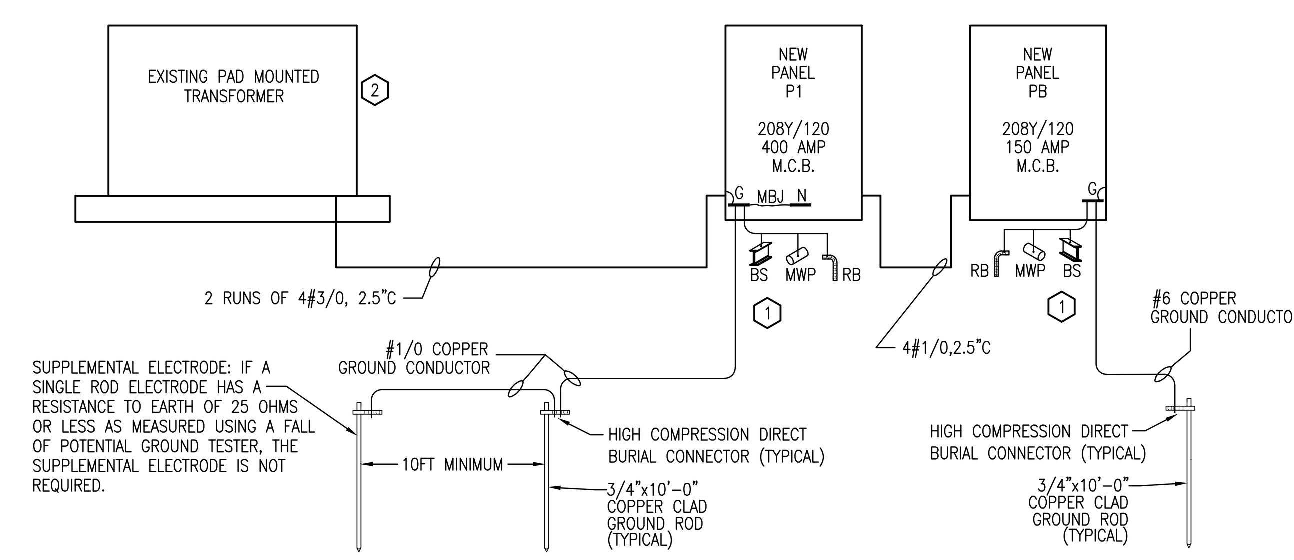
a. LOUDSPEAKER MOUNTING HARDWARE
   1. PROVIDE AND INSTALL (1) ONE DANLEY SOUND LABS PMK-2-HD (OR EQUAL) ON BOTH LIGHT POLES FOR MOUNTING TWO OS80 LOUDSPEAKERS TO COVER THE HOME SEATING AND ONE THMINI15 SUB.
   2. PROVIDE AND INSTALL (1) ONE DANLEY SOUND LABS PMK-1 (OR EQUAL) ON BOTH LIGHT POLES FOR MOUNTING ONE OS80 LOUDSPEAKER TO COVER THE VISITOR SEATING.

b. EQUIPMENT CABINET, POWER SEQUENCING, MISC RACK ITEMS.
   1. PROVIDE AND INSTALL, ONE, (1) MIDDLE ATLANTIC ERK-2125 (OR EQUAL) – 21 SPACE (36 3/4"), 25" DEEP STAND ALONE RACK WITH REAR DOOR, BLACK FINISH.
   2. PROVIDE AND INSTALL ONE MIDDLE ATLANTIC PDS-615R- (OR EQUAL) 6 OUTLET, SEQUENCED 15 AMP CIRCUIT, RACKMOUNT POWER DISTRIBUTION W/9' CORD, BLACK POWDER COAT FINISH.

d. AMPLIFIERS
   1. PROVIDE AND INSTALL (4) FOUR, DYNACORD L3600FD (OR EQUAL) – DSP POWER AMPLIFIER 2X1800W. WITH FIR DRIVE, XLR/NL4 CONNECTORS.
   2. PROVIDE AND INSTALL (1) ONE DYNACORD L1300FD (OR EQUAL) – DSP POWER AMPLIFIER 2X650W. WITH FIR DRIVE, XLR/NL4 CONNECTORS.

e. MIXER AND MICROPHONES
   1. PROVIDE ONE ALESIS ALE-MM10W (OR EQUAL) – MULTIMIX 10 WIRELESS 10-CHANNEL RACKMOUNT AUDIO MIXER WITH BLUETOOTH WIRELESS
   2. PROVIDE (1) ONE SHURE SM58S (OR EQUAL) MICROPHONE W/ OFF/ON SWITCH AND DESK STAND.
   3. PROVIDE (1) RAPCO LTIBLOX (OR EQUAL) LAPTOP INTERFACE

f. ADDITIONAL EQUIPMENT
   1. WIRELESS SYSTEM WITH MICROPHONE AND LAVALIER MIC TO BE INCLUDED IN SET. MUST HAVE A MINIMUM RANGE OF NO LESS THAN 300' LINE OF SIGHT. NADY MODEL NAD 22HT-LT-HM OR EQUAL



SINGLE LINE DIAGRAM

GENERAL NOTES:

1. ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH ARC FLAH HAZARD WARNING LABEL IN ACCORDANCE WITH NEC 110.16.
2. ELECTRICAL EQUIPMENT SHALL BE MARKED TO INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES PER NEC 408.4(B).

KEYNOTES:

(1) GROUNDING ELECTRODE SYSTEM SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250.

(2) PROVIDE AN AID TO CONSTRUCTION ALLOWANCE (#3) OF $30,000.00 FOR ALL SERVICE RELATED FEES. COORDINATE ALL REQUIREMENTS WITH THE POWER COMPANY.

ELECTRICAL LEGEND

SCALE: NTS

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SHEET TITLE :	ELECTRICAL LEGEND
MCKEE JOB # :	23.192
DRAWN BY :	TAD
DATE:	10.04.23
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	
SHEET NO. :	E0.0

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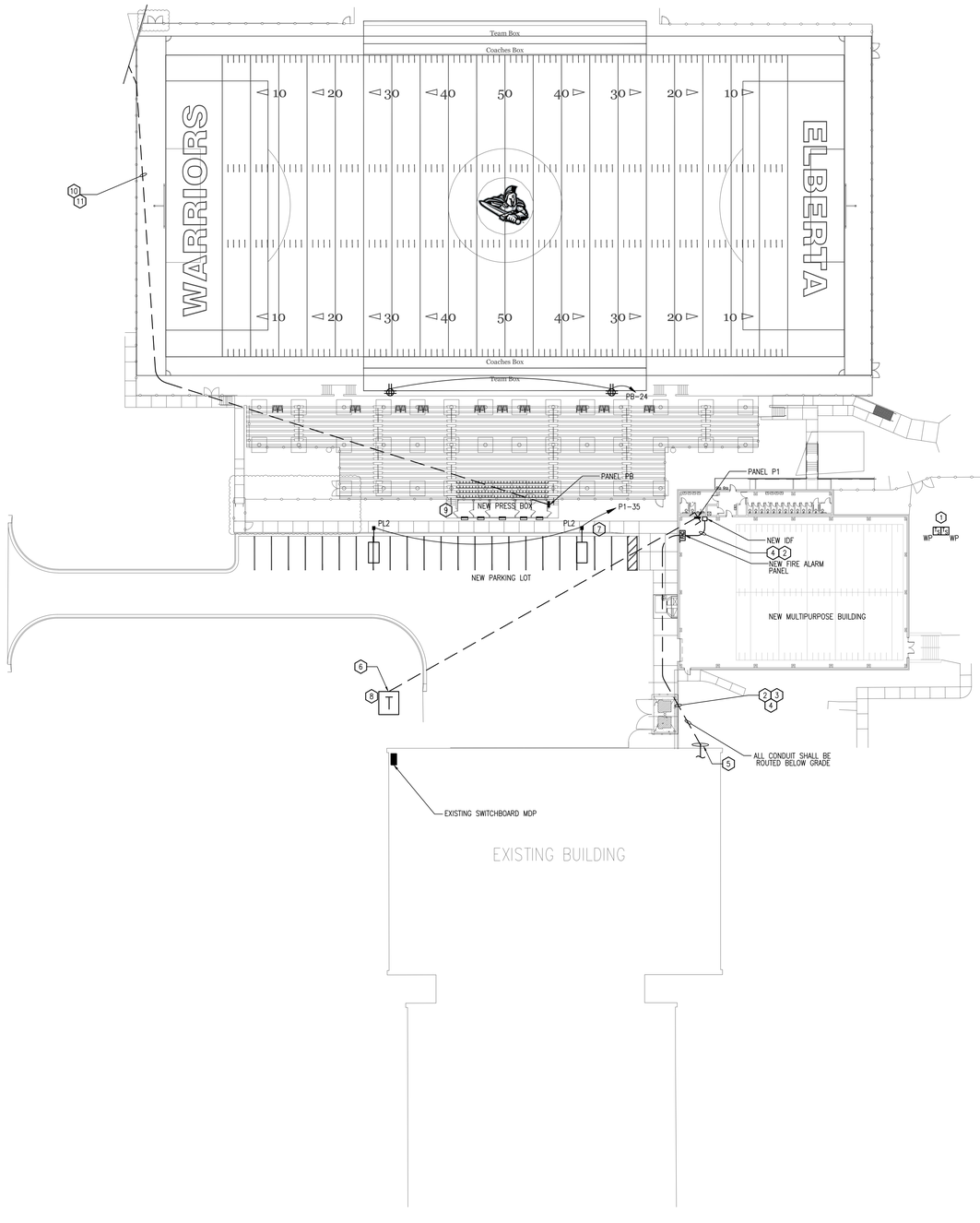
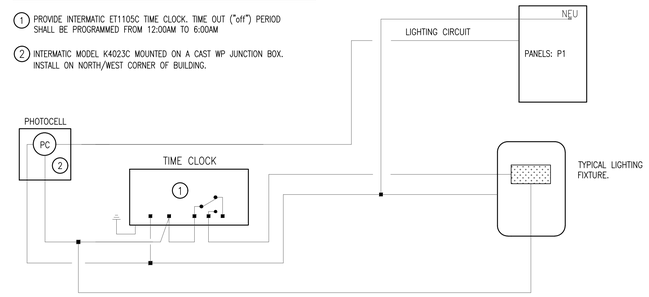
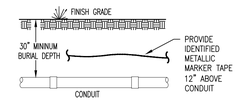


LIGHTING CONTROL DIAGRAM KEY NOTES

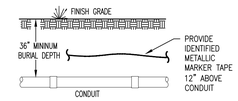
1. PROVIDE INTERMATIC ET1105C TIME CLOCK. TIME OUT ("off") PERIOD SHALL BE PROGRAMMED FROM 12:00AM TO 6:00AM
2. INTERMATIC MODEL K4023C MOUNTED ON A CAST WP JUNCTION BOX. INSTALL ON NORTH/WEST CORNER OF BUILDING.



LIGHTING CONTROL DIAGRAM
NOT TO SCALE



TYPICAL COMMUNICATIONS CONDUIT DETAIL
SCALE: NONE



TYPICAL ELECTRICAL CONDUIT DETAIL
SCALE: NONE

ELECTRICAL SITE PLAN KEYNOTES

1. COORDINATE LOCATION OF TAMPER AND BACKFLOW PREVENTER SWITCHES WITH CIVIL ENGINEER.
2. PROVIDE ONE 2.5" CONDUIT WITH PULL STRING FOR NEW INTERCOM SYSTEM CIRCUITS. ROUTE CONDUIT BELOW GRADE FROM NEW INTERCOM SYSTEM TO EXISTING INTERCOM SYSTEM MASTER CONSOLE. PROVIDE ALL PULL BOXES AS REQUIRED. PENETRATIONS THROUGH FIRE WALLS SHALL BE PROVIDED WITH UL LISTED FIRE STOPPING COMPOUND. EXISTING CONCRETE/ASPHALT SHALL BE SAW CUT AS REQUIRED TO ACCOMMODATE NEW CONDUIT. ALL AREAS WHERE UNDERGROUND CONDUIT IS ROUTED SHALL BE RETURNED TO ORIGINAL CONDITION.
3. PROVIDE ONE 1.5" CONDUIT WITH PULL STRING FOR NEW FIRE ALARM SYSTEM NETWORK CONNECTION. ROUTE CONDUIT BELOW GRADE FROM NEW FIRE ALARM CONTROL PANEL TO EXISTING FIRE ALARM CONTROL PANEL. SEE FIRE ALARM SYSTEM RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS. PROVIDE ALL PULL BOXES AS REQUIRED. PENETRATIONS THROUGH FIRE WALLS SHALL BE PROVIDED WITH UL LISTED FIRE STOPPING COMPOUND. EXISTING CONCRETE/ASPHALT SHALL BE SAW CUT AS REQUIRED TO ACCOMMODATE NEW CONDUIT. ALL AREAS WHERE UNDERGROUND CONDUIT IS ROUTED SHALL BE RETURNED TO ORIGINAL CONDITION.
4. PROVIDE 2" CONDUIT WITH PULL STRING FOR NEW COMMUNICATIONS/DATA CONNECTION. ROUTE CONDUIT BELOW GRADE FROM NEW COMM EQUIPMENT, TO EXISTING MAIN COMMUNICATIONS ROOM. PROVIDE ALL PULL BOXES AS REQUIRED. PENETRATIONS THROUGH FIRE WALLS SHALL BE PROVIDED WITH UL LISTED FIRE STOPPING COMPOUND. STUB CONDUIT DOWN 6" BELOW CEILING AT EXISTING COMMUNICATIONS/DATA EQUIPMENT. PROVIDE FIBER OPTIC CABLE, INDOOR/OUTDOOR, 6 STRAND COUNT, MULTIMODE, PLENUM RATED, (OPTICAL CABLE CORPORATION DX06-0500-WLX/900-OFNP) OR APPROVED EQUAL), (3.0dB/km AND 2000 MHz-km @ 850nm, 1.0 dB/km AND 1500 MHz-km @ 1310 nm). TERMINATE ALL FIBERS WITH "ST" CONNECTORS. LEAVE A MINIMUM OF 10FT SLACK BUFFERED FIBER AT EACH TERMINATION POINT. RUN CONTINUOUS FROM SOURCE TO DESTINATION WITH NO SPLICES OR TERMINATIONS. TERMINATE CABLE AT BOTH ENDS. PROVIDE NEW HARDWARE AS REQUIRED TO INTERFACE WITH EXISTING SYSTEM. INSTALLER SHALL HAVE RCDD ON STAFF. EXISTING CONCRETE/ASPHALT SHALL BE SAW CUT AS REQUIRED TO ACCOMMODATE NEW CONDUIT. ALL AREAS WHERE UNDERGROUND CONDUIT IS ROUTED SHALL BE RETURNED TO ORIGINAL CONDITION.
5. CONDUITS SHALL TURN UP AT EXTERIOR WALL AND BE ROUTED OVER TO EXISTING SYSTEMS HEAD END EQUIPMENT/MAIN PANEL. FIELD VERIFY EXACT LOCATION AND REQUIREMENTS PRIOR TO BID. COORDINATE ENTRY LOCATION AT EXISTING BUILDING WITH ARCHITECT AND OWNER. CONDUITS SHALL BE CONCEALED FROM VIEW.
6. NEW UNDERGROUND ELECTRICAL SERVICE. COORDINATE ALL REQUIREMENTS WITH LOCAL UTILITY PRIOR TO ANY ROUGH-IN. SEE SINGLE LINE DIAGRAM FOR MORE INFORMATION.
7. ROUTE PARKING LIGHT CIRCUIT THROUGH CONTACTOR TO TRIGGER ON/OFF.
8. CONTRACTOR SHALL INCLUDE ALL COSTS RELATED TO THE ELECTRICAL SERVICE IN THE BID PRICE.
9. PROVIDE CONDUITS FROM NEW PRESS BOX TO EXISTING SCOREBOARD. FIELD VERIFY EXACT LOCATION. INCLUDE ALL FEES IN BID PRICE.
10. PROVIDE NEW 2#4,#4G,1.25"C FOR SCOREBOARD POWER ROUTED AROUND THE FIELD AS INDICATED TO NEW PANEL PB. PROVIDE PULL BOXES AS REQUIRED. FINAL CONDUIT ROUTING SHALL BE FIELD COORDINATED WITH SITE CONDITIONS. COORDINATE TERMINATION LOCATION AND REQUIREMENTS WITH OWNER PRIOR TO ANY ROUGH-IN. SCOREBOARD TO BE FED FROM NEW PRESS BOX PANEL LOCATED IN PRESS BOX AT THE TOP OF THE STANDS. DIRECTIONAL BORE UNDER EXISTING CONDITIONS AS REQUIRED.
11. PROVIDE 1" CONDUIT WITH PULL WIRE ROUTED AROUND THE FIELD TO THE PRESSBOX FOR CONTROL CABLE.

ELECTRICAL SITE PLAN
SCALE: 1" = 30'-0"

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

ALABAMA LICENSED ARCHITECT THOMAS VANDERGRIFF 10/04/23 PROFESSIONAL ENGINEER

SHEET TITLE :	ELECTRICAL SITE PLAN
MCKEE JOB # :	23.192
DRAWN BY :	TAD
DATE:	10.04.23
REVISED DATE:	
REVISED DATE:	
REVISED DATE:	

SHEET NO. : E0.1

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- Wednesday, October 4, 2023 10:31:56 AM
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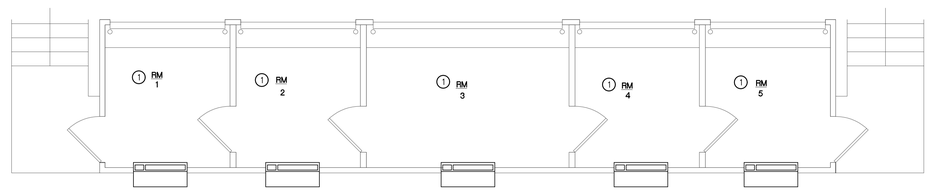
LIGHTING PLAN PRESS BOX KEYNOTES:

1. ALL LIGHTING AND CONTROL SYSTEMS ALONG WITH ALL CONDUIT AND WIRING ARE PROVIDED AND INSTALLED BY THE PRESS-BOX MANUFACTURER. MANUFACTURER TO PROVIDE EXTERIOR AND INTERIOR EGRESS LIGHTING PER IBC IFC AND NFPA 101. PANELBOARD PROVIDED AND INSTALLED BY CONTRACTOR.



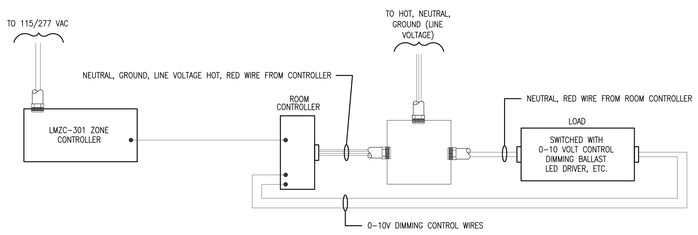
LIGHTING PLAN - PRESS BOX
SCALE: 1/8" = 1'-0"

LIGHTING KEYNOTES:

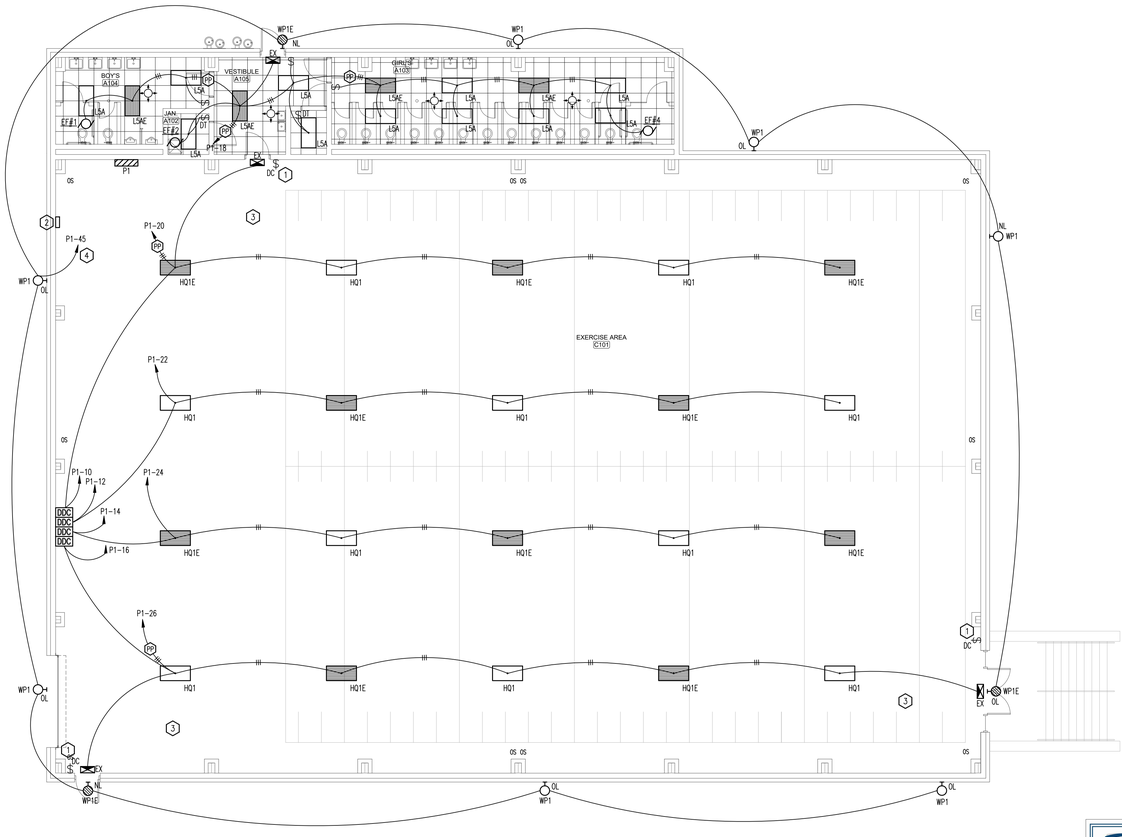
1. COORDINATE DEVICE LOCATION WITH THE OWNER PRIOR TO ROUGH-IN. PROVIDE CAT5E CONNECTION TO DDC. ALL CAT5E CABLING SHALL BE PRE-TERMINATED.
2. WATTSTOPPER LMZC-301 ZONE CONTROLLER FOR CONTROL OF GYM LIGHTING ROOM CONTROLLERS. COORDINATE TIME OF DAY PROGRAMMING WITH OWNER. PROVIDE CAT5E CONNECTION TO DDC. ALL CAT5E CABLING SHALL BE PRE-TERMINATED.
3. PROVIDE WIREGUARD FOR ALL LIGHTS, EXIT SIGNS, EMERGENCY WALL PACKS, AND SWITCHES IN THIS AREA.
4. ROUTE THROUGH CONTACTOR ARRANGEMENT. "NL" DESIGNATES LIGHTS THAT SHALL BE TURNED ON FROM DUSK TO DAWN. "OL" DESIGNATES LIGHTS ON TURNED ON AT DUSK AND TURNED OFF BY TIMECLOCK AT 12 MIDNIGHT.

DAYLIGHTING CONTROL GENERAL NOTES:

1. **THE INPUT POWER OF ALL ARTIFICIAL LIGHTING WITHIN THE DAYLIGHTING ZONE IN ALL THE ROOMS IN THIS PROJECT, IS LESS THAN 150W; THEREFORE, DAYLIGHTING CONTROLS WERE NOT PROVIDED IN ACCORDANCE WITH ASHRAE 90.1 2013 9.4.1.1(a).**



LMRC-211 AND LMZC-301 ZONE CONTROL WIRING DIAGRAM
NOT SO SCALE



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

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ALABAMA LICENSED No. 5807 PROFESSIONAL ENGINEER 10-04-23 JOHN THOMAS VARGO

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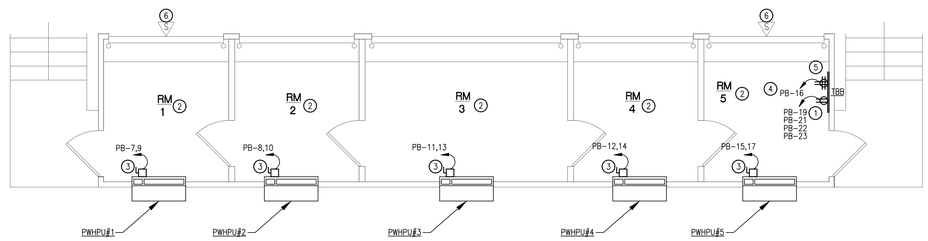
ELECTRICAL PLAN PRESSBOX KEYNOTES:

1. PROVIDE FOUR(4) DEDICATED 120VAC 20A RECEPTACLES WITH DEDICATED CIRCUITS AS INDICATED, FOR AUDIO EQUIPMENT RACK.
2. ALL POWER AND TELECOM ALONG WITH ALL CONDUIT AND WIRING ARE PROVIDED AND INSTALLED BY THE PRESS-BOX MANUFACTURER (UNLESS NOTES OTHERWISE). PANELBOARD AND TELECOM HEADEND EQUIPMENT PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
3. HVAC UNIT PROVIDED AND INSTALLED BY CONTRACTOR. PROVIDE ALL ELECTRICAL CONNECTIONS AND EQUIPMENT AS INDICATED.
4. TELECOM HEADEND EQUIPMENT AND CONNECTIONS PROVIDED AND INSTALLED BY CONTRACTOR. PROVIDE ALL ELECTRICAL CONNECTIONS AND EQUIPMENT AS INDICATED.
5. 3/4"D PLYWOOD BACKBOARD PROVIDE 6" CLEARANCE ABOVE FLOOR. BACKBOARD SHALL BE AC EXTERIOR GRADE PLYWOOD. FINISH WITH TWO COATS FIRE RETARDANT SEMI-GLOSS ENAMEL PAINT, COLOR BATTLESHIP GREY. ALL POWER AND DATA RECEPTACLES SHALL BE FLUSH WITH BACKBOARD. PROVIDE #6 GROUND IN 1" EMT CONDUIT FROM MAIN ELECTRICAL PANEL TO BACKBOARD, COIL 10' SLACK AT BACKBOARD, PROVIDE INSULATED GROUNDING BUSHING. COORDINATE GROUND TERMINATION WITH COMMUNICATIONS CONTRACTOR, PROVIDE TERMINATIONS AS REQUIRED. PROVIDE GROUND BUS BAR (HARGER GBI SERIES 1/4"X4"X12") MOUNTED 12" AFF. COORDINATE EXACT LOCATION OF THE GROUND BUS BAR WITH COMMUNICATIONS CONTRACTOR PRIOR TO ANY ROUGH-IN. ALL COMMUNICATION EQUIPMENT, CONDUITS, ETC. SHALL BE GROUNDED WITH #6 AWG INSULATED GREEN COPPER GROUNDING CONDUCTOR TO GROUNDING BUS BAR. LOOPING GROUNDS SHALL NOT BE PERMITTED.
6. LOUD SPEAKER TO BE INSTALL AT TOP OF PRESSBOX. CONTRACTOR TO PROVIDE 1/2"C WITH PULL STRING FROM HEADEND LOCATION TO SPEAKER. PROVIDE SPEAKER BACKBOX AS REQUIRED. COORDINATE WITH SPEAKER INSTALLER FOR ALL ROUGH-IN LOCATIONS AND REQUIREMENTS.
7. IN LINE EXHAUST FAN TO BE MOUNTED ABOVE CEILING ELEVATION. EXHAUST FAN SHALL SERVE VESTIBULE. WHEN PACU#1 IS OPERATING, THE EXHAUST FAN SHALL BE OPERATING.



ELECTRICAL PLAN - PRESS BOX
SCALE: 1/8= 1'-0"

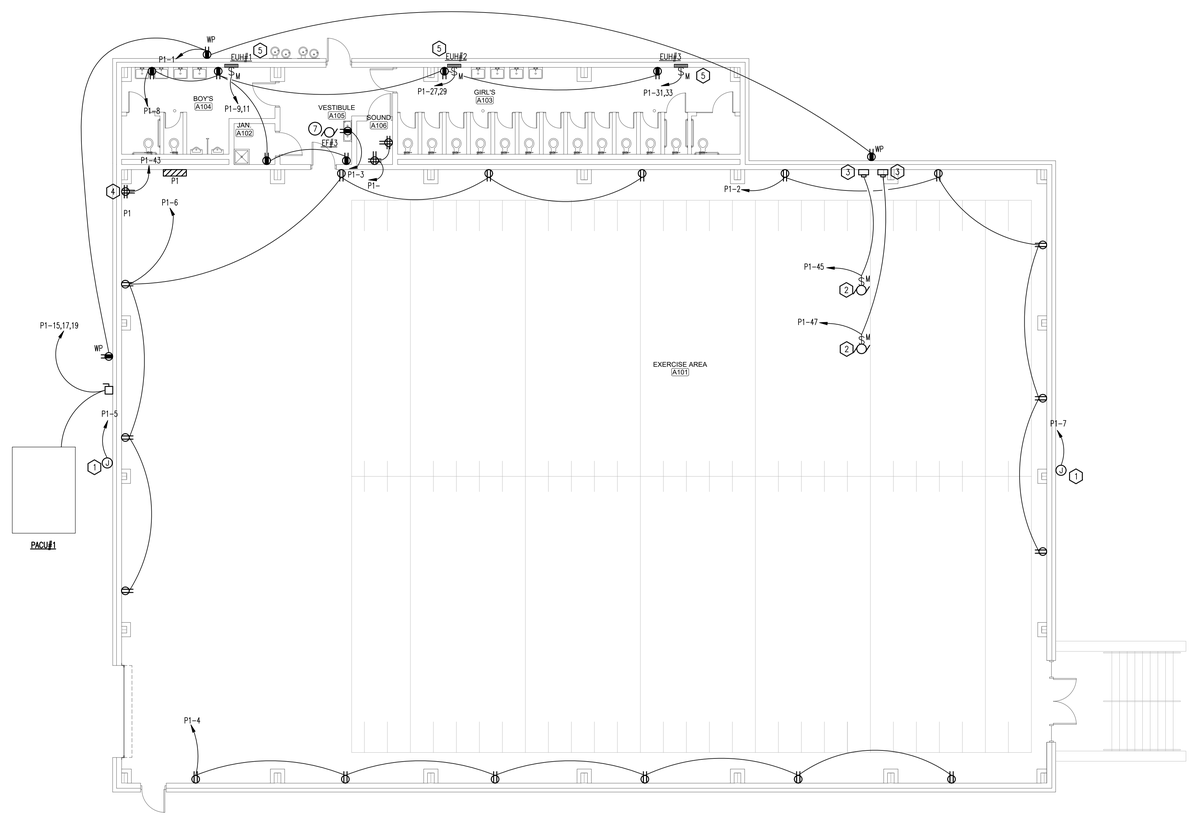
GENERAL NOTES:

1. COORDINATE MECHANICAL/PLUMBING DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT.
2. MOUNT EXTERIOR DISCONNECTS ON EXTERIOR WALLS AT LEAST 18" FROM WINDOWS. LOCATIONS OF DISCONNECTS AND EQUIPMENT ARE SHOWN FOR DRAWING CLARITY PURPOSES ONLY.
3. COORDINATE WITH MECHANICAL/PLUMBING CONTRACTORS TO ENSURE OVERCURRENT PROTECTION DEVICES FOR THEIR EQUIPMENT IS SIZED PER MANUFACTURERS RECOMMENDATIONS. ENGINEER SIZED OVERCURRENT PROTECTION ACCORDING TO MECHANICAL/PLUMBING DRAWINGS AND SPECIFICATIONS, ACTUAL EQUIPMENT SUPPLIED MAY DIFFER. ELECTRICAL CONTRACTOR SHALL WORK WITH OTHER TRADE DISCIPLINES TO ENSURE ANY CHANGES WILL BE INSTALLED CORRECTLY AT THE COST OF THE PERSON MAKING THE CHANGES.
4. ALL FLEXIBLE CONNECT TO HVAC UNITS SHALL BE RUN PARALLEL TO HARD SURFACE AND STRAPPED AT LEAST EVERY 2'.
5. CONTRACTOR SHALL PROVIDE CONDUIT FOR MECHANICAL CONTROLS. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
6. PROVIDE DEDICATED NEUTRAL FOR EACH MULTIWARE HOMERUN PER NEC.

SEE MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT DISCONNECT, AND FEEDER REQUIREMENTS. SEE PANEL SCHEDULES FOR MECHANICAL EQUIPMENT HOMERUN LOCATIONS AND OVER CURRENT REQUIREMENTS.

POWER KEYNOTES:

1. COORDINATE ELECTRICAL REQUIREMENTS FOR OUTSIDE ELECTRICAL SIGN. PROVIDE CONDUIT, WIRING, CONTROLS, ETC. AS NECESSARY.
2. BASEBALL BATTING CAGE HOIST, CONTROL SWITCH, AND LIMIT SWITCHES FURNISHED WITH HOIST. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL ELECTRICAL DEVICES, CONDUIT, CONTROL CIRCUITING, AND POWER CIRCUITING. VERIFY THE LOCATIONS OF ALL DEVICES, VOLTAGE AND PHASE, EQUIPMENT, AND CIRCUITING REQUIREMENTS PRIOR TO ROUGH-IN.
3. PROVIDE WIREGUARD FOR ALL PUSHBUTTON SWITCHES IN THE INDOOR PRACTICE FACILITY.
4. PROVIDE RECEPTACLE MOUNTED UP HIGH FOR COMMUNICATIONS RACK.
5. MOUNT CONTROLS FOR EUH ON WALL. COORDINATE FINAL LOCATION WITH OWNER/ARCHITECT.



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

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ALABAMA LICENSED PROFESSIONAL ENGINEER No. 35807 10/04/23 JOHN THOMAS VARGO

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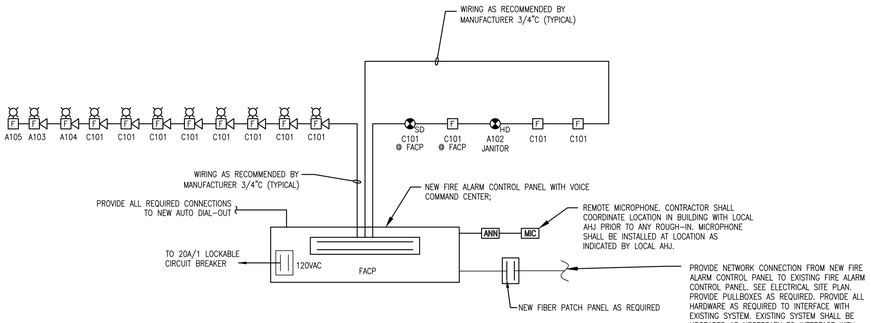


FIRE ALARM SYSTEM RISER DIAGRAM

NOT TO SCALE

FIRE ALARM SYSTEM GENERAL NOTES:

a. VERIFY EXACT NUMBER OF DEVICES FROM FLOOR PLAN, NOT RISER DIAGRAM.

b. THE NAC CIRCUITS ARE SHOWN DIAGRAMATIC. MAXIMUM NUMBER OF DEVICES ON ANY CIRCUIT IS LIMITED. PROVIDE ADDITIONAL HARDWARE AS REQUIRED.

c. SLC LOOP TO CONNECT ALL FIRE ALARM SYSTEM DEVICES FROM FLOOR PLANS. PROVIDE ADDITIONAL LOOP(S) AS REQUIRED.

d. BATTERY CABINETS AND NAC EXPANDERS SHALL BE LOCATED BELOW OR ADJACENT TO FIRE ALARM CONTROL PANEL.

e. ALL FIRE ALARM WORK SHALL BE PERFORMED BY QUALIFIED PERSONNEL AS DEFINED IN NFPA 72 (LATEST EDITION) SECTION(S) 4.3.3 AND 4.4.4.2. SHOP DRAWINGS SHALL COMPLY WITH NFPA 72 SECTION 4.5.1.1.

f. SPLICING OF FIRE ALARM WIRING IS STRICTLY PROHIBITED.

g. UPON PROJECT COMPLETION THE CAMPUS WIDE FIRE ALARM SYSTEM SHALL BE RECERTIFIED AND TESTED. PROVIDE WITH A RECORD OF COMPLETION AS REQUIRED IN NFPA 72 SECTION 4.5.2.

h. THE FIRE ALARM INSTALLER SHALL BE LICENSED AS A CERTIFIED FIRE ALARM CONTRACTOR. THE CONTRACTOR MUST HAVE A NICET LEVEL III TECHNICIAN IN A POSITION OF RESPONSIBILITY, AND THE LICENSE SHALL BE ISSUED IN THE NAME OF THE CERTIFICATE HOLDER AND THE CONTRACTOR. TECHNICIANS WORKING FOR THE CERTIFIED CONTRACTOR MUST HOLD A CURRENT NICET LEVEL II, OR EQUIVALENT, CERTIFICATION. CONTRACTORS WISHING TO BID ON FIRE ALARM WORK SHALL SHOW EVIDENCE AT THE PRE-BID CONFERENCE THAT HE/SHE MEETS THE CERTIFICATION REQUIREMENTS AND HOLD A PERMIT ISSUED BY THE STATE OF ALABAMA FIRE MARSHAL.

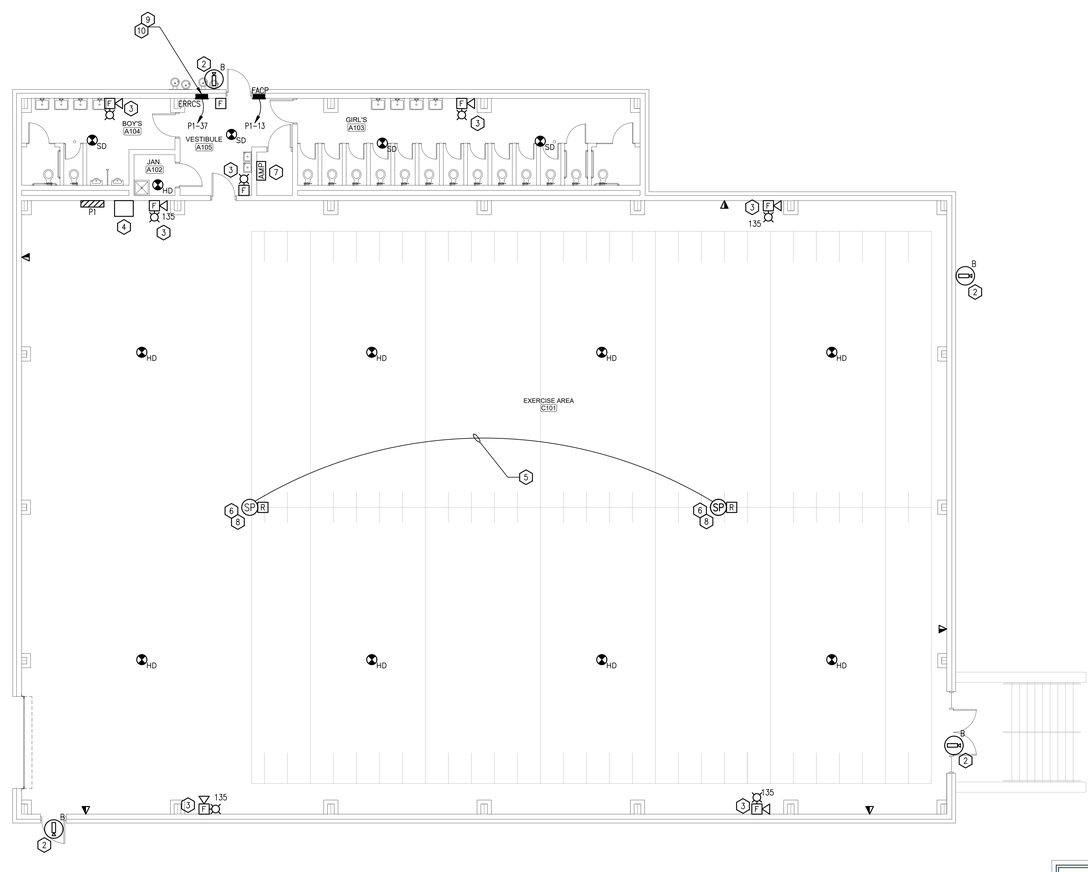
i. THE FIRE ALARM SYSTEM SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. AUTOMATIC TELEPHONE DIALING DEVICES USED TO TRANSMIT AN EMERGENCY ALARM SHALL NOT BE CONNECTED TO ANY FIRE DEPARTMENT TELEPHONE NUMBER UNLESS APPROVED BY THE FIRE CHIEF.

SYSTEMS KEYNOTES:

1. PROVIDE OUTLET FOR WIRELESS ACCESS POINT, PROVIDE CAT 6 RJ-45 JACK MOUNTED AT 12' A.F.F. AND 3/4" CONDUIT BACK TO IDF WITH CAT 6 CABLE CONNECTED TO IDF.
2. PROVIDE OUTLET FOR SECURITY CAMERA. PROVIDE CAT 6 RJ-45 JACK MOUNTED AT 12' A.F.F. AND 3/4" CONDUIT BACK TO IDF WITH CAT 6 CABLE CONNECTED TO IDF.
3. PROVIDE WALL MOUNTED WIREGUARD FOR THE FIRE ALARM HORN/STROBES.
4. PROVIDE 2" CONDUIT FROM NEW INDOOR PRACTICE BUILDING IDF TO THE EXISTING BUILDING SHOWN ON SITE PLAN AND THEN LB INTO EXISTING BUILDING AND EXTEND TO EXISTING COMMUNICATIONS RACK IN THE EXISTING BUILDING. CONDUIT IN NEW BUILDING SHALL EXTEND UP CONCEALED IN WALL AND STUB OUT ABOVE RACK. MATCH EXISTING FIBER CONNECTOR TYPES IN EXISTING BUILDING. PROVIDE ADDITIONAL FIBER PATCH AS REQUIRED IN EXISTING RACK TO TERMINATE NEW FIBER TO THE NEW IDF. PART NUMBER FOR IDF IS #GXT2-1500-RT120.
5. PROVIDE 3/4" CONDUIT BETWEEN SPEAKERS
6. ORIENT SPEAKERS PER MANUFACTURER'S RECOMMENDATIONS TO PROVIDE OPTIMAL SOUND – PROVIDE SAFETY MOUNTING HARDWARE AND WIRE GUARDS AS REQUIRED. COORDINATE THE LOCATION WITH THE BEAMS / JOISTS / CEILING AND CENTER THE SPEAKERS WITH ROOM. THE LOUDSPEAKERS SHALL BE SOUNDSPHERE 110A OR EQUAL, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. PROVIDE SOUND SYSTEM HEAD END EQUIPMENT AS RECOMMENDED BY SPEAKER MANUFACTURER. PROVIDE 1" CONDUIT WITH PULL STRING TO CEILING MOUNTED SPEAKERS IN GYM. ALSO PROVIDE A 1" CONDUIT WITH PULL STRING TO SCORER'S TABLE FLOOR BOX. PROVIDE SPEAKER CONTROLS AS RECOMMENDED BY SPEAKER MANUFACTURER.
8. SOUND SYSTEM SHALL BE INTEGRATED INTO THE FIRE ALARM SYSTEM. FIRE ALARM SIGNALS SHALL BE BROADCAST THROUGH THE SOUND SYSTEM IN THE EVENT OF AN EMERGENCY. SOUND SYSTEM INSTALLER SHALL COORDINATE WITH FIRE ALARM CONTRACTOR FOR ALL INTERCONNECTION REQUIREMENTS. PROVIDE ALL BATTERY BACKUP SYSTEMS AS REQUIRED.
9. ALLOWANCE #1:TESTING SHALL BE PERFORMED TO DETERMINE THE NEED FOR AN EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEM (ERCES). PROVIDE AN ALLOWANCE OF $4,500.00 FOR ERCC SYSTEM TESTING.
10. ALLOWANCE #2: PROVIDE A COMPLETE EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEM (ERCES). PROVIDE ALL DEDICATED 120V POWER CONNECTIONS AS REQUIRED BY EQUIPMENT VENDOR. PROVIDE AN ALLOWANCE OF $150,000.00 FOR ERCC SYSTEM DESIGN AND INSTALLATION.

GENERAL NOTES:

1. COORDINATE AND MOUNT COMMUNICATIONS OUTLETS WITHIN 6" OF CORRESPONDING POWER RECEPTACLE.
2. COORDINATE WITH RISER DIAGRAMS FOR ADDITIONAL REQUIREMENTS FOR COMMUNICATIONS AND FIRE ALARM SYSTEMS.



ELECTRICAL SYSTEMS PLAN

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

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ALABAMA LICENSED H. THOMAS YONGE III 10/04/23 PROFESSIONAL ENGINEER

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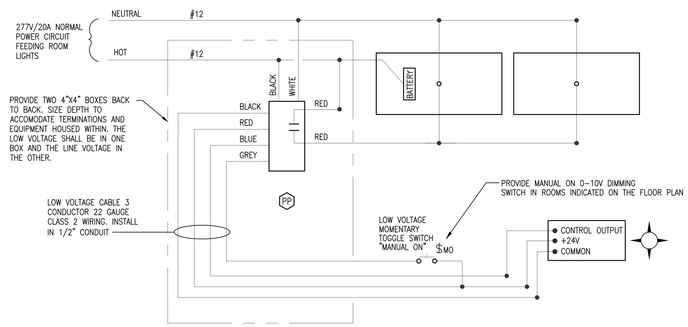
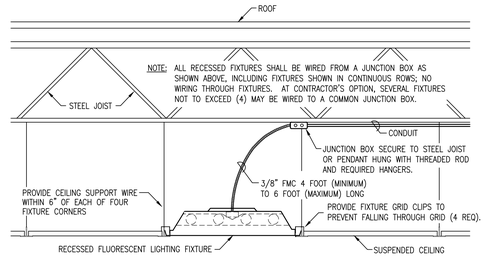


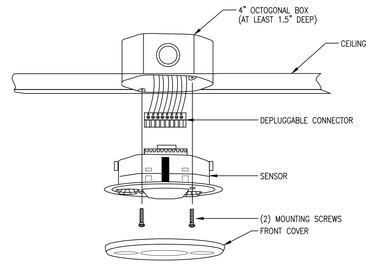
TYPICAL OCCUPANCY SENSOR WIRING DIAGRAM

NOT TO SCALE



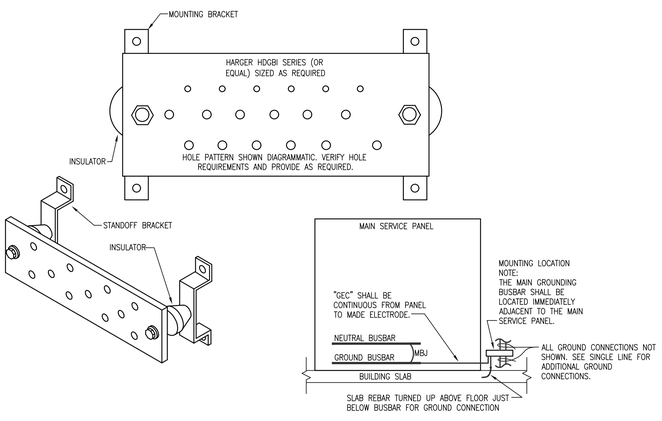
TYPICAL RECESSED FIXTURE INSTALLATION DETAIL

SCALE: NONE



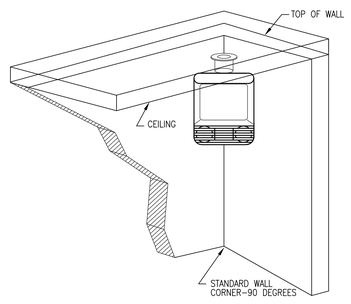
DUAL TECHNOLOGY MOUNTING DETAIL - CEILING MOUNT

NOT TO SCALE



MAIN GROUNDING BUSBAR DETAIL

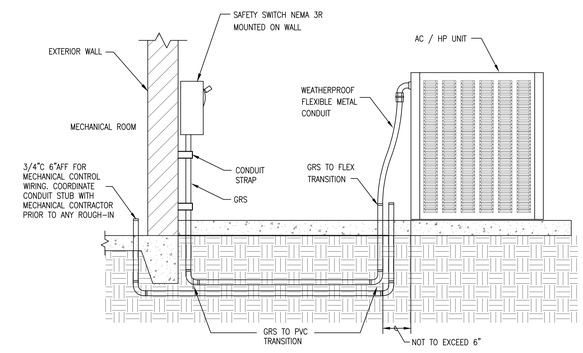
NOT TO SCALE



DUAL TECHNOLOGY MOUNTING DETAIL - WALL MOUNT

NOT TO SCALE

NOTES:
1. MOTION DETECTION SHALL INCLUDE DOOR THRESHOLD, AIM DEVICE AS NECESSARY.



TYPICAL EXTERIOR AC/HP ELECTRICAL CONNECTION DETAIL

NOT TO SCALE

ELECTRICAL DETAILS

SCALE: NTS

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