CONSTRUCTION PLANS FOR:

GULF COAST STATE COLLEGE SOFTBALL COMPLEX

PREPARED FOR:

GULF COAST STATE COLLEGE
BAY COUNTY, FLORIDA

PREPARED BY:

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FLA FLORIDA ARCHITECTS LICENSE #AA0002730

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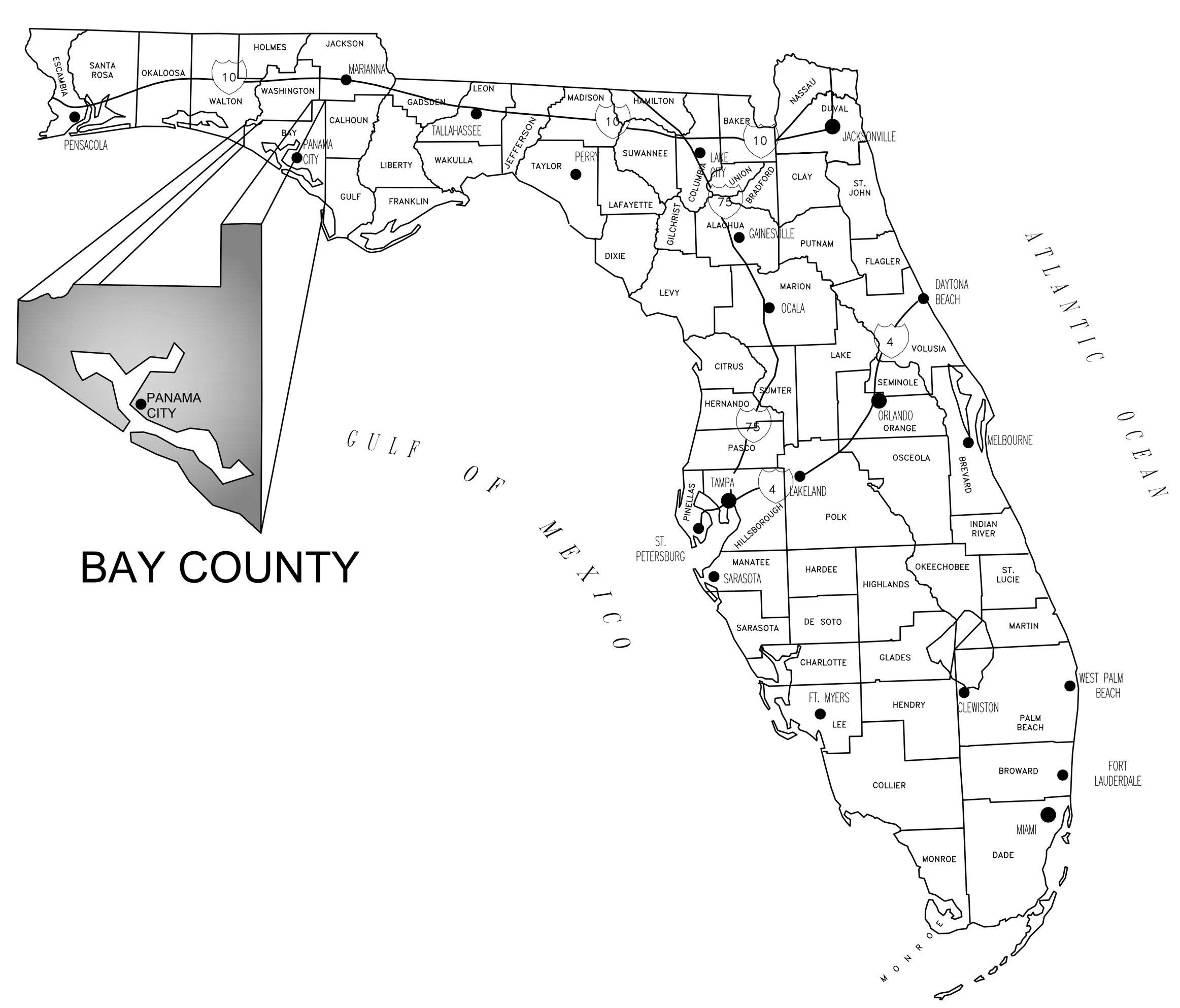
CONSTRUCTION DOCUMENTS

GULF COAST STATE COLLEGE SINCE 1957

BID NUMBER - ITB#6-2016/2017
PROJECT NUMBER - 50087410

MAY 2017

VICINITY MAP



LOCATION MAP

CIVIL

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GENERAL NOTES:

1. THE BENCHMARK DATUM USED FOR THE PLANS IS NAVD88.
2. ANY PUBLIC LAND CORNER OR MONUMENT THAT PERPETUATES BAY COUNTY RIGHT OF WAY WITHIN THE PROJECT LIMITS IS TO BE PROTECTED BY THE CONTRACTOR. IF A MONUMENT IS IN DANGER OF BEING DESTROYED THE CONTRACTOR IS TO ENSURE THAT IT IS PROPERLY REFERENCED AND RESET PRIOR TO PROJECT COMPLETION. THE MONUMENTS SET SHALL MEET MINIMUM TECHNICAL STANDARDS AS DEFINED IN 61G17, F.A.C. AND CURRENT BAY COUNTY SURVEYING STANDARDS.
3. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH MATERIALS FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE PROJECT ADMINISTRATOR. THE CONTRACTOR SHALL PROVIDE THE PROJECT ADMINISTRATOR WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE. THE CONSTRUCTION PROJECT ADMINSTRATOR SHALL COORDINATE WITH THE ENGINEER OF RECORD PRIOR TO ISSUING WRITTEN APPROVAL TO THE CONTRACTOR. SINCE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AND INTENDED FOR EQUIPMENT USE AS A HAZARDOUS MATERIAL, SUCH PRODUCTS DO NOT NEED A MSDS SUBMITTAL.
4. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT SHALL IMMEDIATELY BE REPORTED TO THE CONSTRUCTION PROJECT ADMINISTRATOR WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE CONSTRUCTION PROJECT ADMINISTRATOR IS TO NOTIFY THE PROJECT MANAGER OF DISCOVERY. THE PROJECT MANAGER WILL ARRANGE AN INVESTIGATION, IDENTIFICATION AND REMEDIATION OF THE HAZARDOUS MATERIAL. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE CONSTRUCTION PROJECT ADMINISTRATOR.
5. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE ONE CALL OF FLORIDA, INC. TWO BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE. CALL 1-800-432-4770 AND 811 (NATIONWIDE TOLL FREE UTILITY LOCATE). THE LOCATION OF THE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION.
6. INFORMATION SHOWN ON THE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES IS BASED ON DATA PROVIDED BY UTILITY OWNERS, AVAILABLE RECORDS, AND FIELD SURVEYS. THE PLANS MAY NOT SHOW ALL UTILITIES WITHIN PROJECT LIMITS, EITHER ACTIVE OR PLACED OUT-OF-SERVICE, OR THAT SAID UTILITIES ARE ACTUALLY IN THE HORIZONTAL OR VERTICAL POSITIONS SHOWN IN THE PLANS. DETERMINE THE TYPE AND LOCATION OF ALL UTILITIES TO ESTABLISH THEIR LOCATIONS AND TO AVOID DAMAGE TO UNDERGROUND UTILITIES.
7. UTILITY ADJUSTMENTS ARE TO BE PERFORMED BY THE UTILITY OWNERS UNLESS OTHERWISE NOTED.
8. SWEEPING SHALL OCCUR DAILY OR AFTER SUCH EVENTS AS CAUSE TRACKING ONTO STREET. WATER TRUCKS SHALL BE USED FOR DUST CONTROL, IF NECESSARY.
9. ALL PROPOSED GROUND ELEVATIONS ARE FINISHED SOD ELEVATIONS. FINISH EARTHWORK GRADING SHALL BE 0.2 FEET BELOW ELEVATIONS SHOWN TO ALLOW FOR SOD THICKNESS.
10. SODDING INCLUDES MAINTAINING SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT OR GROWTH IS ESTABLISHED, WHICHEVER COMES LAST. UNTIL THEN, ALL EROSION, SILTATION AND MAINTENANCE OF GRADES IS THE RESPONSIBILITY OF THE CONTRACTOR.
11. WHERE EXCAVATIONS ARE IN CLOSE PROXIMITY OF TREES NOT SHOWN AS BEING REMOVED, THE CONTRACTOR SHALL USE EXTREME CARE IN NOT DAMAGING THE ROOT SYSTEM. NO EQUIPMENT, SUPPLIES, OR VEHICLES SHALL BE STORED OR PARKED WITHIN THE DRIP LINE OF TREES TO REMAIN AND BE PRESERVED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ALL EMPLOYEES AND SUBCONTRACTORS OF THIS REQUIREMENT AND TO ENFORCE SAME.
12. ALL INLETS SHALL BE PROTECTED AS PER FDEP BEST MANAGEMENT PRACTICES, AND THE FDEP/FDOT EROSION AND SEDIMENT CONTROL HANDBOOK.
13. THE CONTRACTOR SHALL DISPOSE OF ALL DEBRIS UPON COMPLETION OF THE PROJECT.
14. THE EROSION CONTROL PLAN SHALL BE IN ACCORDANCE WITH THE FDOT/FDEP EROSION & SEDIMENT CONTROL HANDBOOK.
15. ALL FILL MATERIAL SHALL BE SELECT FILL AS DEFINED BY FDOT DESIGN STANDARD INDEX 505.
16. DEWATERING: SHOULD LOWERING OF GROUNDWATER BE NECESSARY FOR THE INSTALLATION OF CONCRETE STRUCTURES, OR TO PREVENT LATERAL MOVEMENT OF CONCRETE ALREADY PLACED, SUCH LOWERING SHALL BE ACCOMPLISHED BY MEANS OF A WELL POINT SYSTEM OR OTHER APPROVED MEANS, AT CONTRACTOR'S EXPENSE. COMPREHENSIVE PLANS FOR DEWATERING OPERATIONS, IF USED, SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITTING ASSOCIATED WITH DEWATERING.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING NPDES PERMIT.
18. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY METERS, VALVES, SERVICE LATERALS, FIRE HYDRANTS, MAINS, WATER, WASTEWATER, OR GAS FACILITIES DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST.
19. ALL DEMOLISHED MATERIALS SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A LEGAL MANNER.
20. CONTRACTOR SHALL PROVIDE (5) SIGNED AND SEALED AS-BUILT SURVEYS PREPARED BY A REGISTERED FLORIDA SURVEYOR. A DIGITAL (AUTOCAD) FILE SHALL ALSO BE PROVIDED.
21. ALL UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF PANAMA CITY UTILITY DETAILS.
22. ALL STRIPING SHALL BE THERMOPLASTIC.

GRADING, DRAINAGE, AND EARTH WORK NOTES:

CONSTRUCTION:

1. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE SEEDED, MULCHED, SODDED, STABILIZED, OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL, WITHIN FIVE (5) DAYS AFTER SUBSTANTIAL COMPLETION.
2. ALL WASTE MATERIAL SHALL BE DISPOSED OF OFFSITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
3. PROPOSED SPOT ELEVATIONS REPRESENT GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
4. TESTING SHALL BE IN GENERAL CONFORMANCE WITH THE FDOT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. SELECTION AND CONTRACTING WITH THE 3RD PARTY TESTING FIRMS SHALL BE THE RESPONSIBILITY OF THE OWNER. IT SHALL BE THE RESPONSIBILITY OF THE OWNER TO COORDINATE AND SCHEDULE ALL 3RD PARTY TESTS, AND PROVIDE TO THE ENGINEER OF RECORD. CONTRACTOR SHALL NOTIFY THE OWNER UPON COMPLETION OF EACH LIFT AND PROVIDE 48 HOURS FOR 3RD PARTY TESTING TO OCCUR.
5. TOP SOIL SHALL BE PLACED IN AREAS WHERE SOD IS PROPOSED, PRIOR TO INSTALLATION OF SOD.
6. ALL CONSTRUCTION AREAS NEAR WETLANDS ARE TO BE MONITORED CLOSELY FOR EROSION. SILT FENCE AND HAY BALES SHALL BE USED IN THESE AREAS. CONTRACTOR SHALL FOLLOW ALL THE FDEP/COE DREDGE AND FILL PERMIT REQUIREMENTS IF APPLICABLE. SEE SPECIFICATIONS.
7. ALL SPOIL MATERIAL SHALL BE PLACED ON THE UPLAND SIDE OF ANY SLOPED CONSTRUCTION AREA.
8. THE CONTRACTOR SHALL TAKE WHATEVER STEPS NECESSARY TO PREVENT EROSION INTO NEARBY WETLANDS.
9. ALL PIPE SHALL BE INSTALLED IN DRY CONDITIONS. WELL POINTING MAY BE REQUIRED AT THE DIRECTION OF THE ENGINEER. WELL POINTS OR SOCK PIPE MAY BE USED.
10. CONTRACTOR SHALL FOLLOW ALL OSHA REQUIREMENTS FOR CONSTRUCTION.
11. THE CONTRACTOR SHALL FOLLOW ALL CONDITIONS OF THE PERMIT REQUIREMENTS. SEE SPECIFICATIONS FOR COPY OF PERMITS.
12. THE PROJECT AREA MUST HAVE MINIMUM PERCOLATION RATE OF 5 IN/HR AT 95% MAXIMUM DENSITY.
13. ORGANIC, UNSUITABLE SOILS ON THE PROJECT SITE SHALL BE REMOVED AND REPLACED WITH CLEAN SAND MATERIAL OF WHICH NOT MORE THAN 15% BY DRY WEIGHT IS FINER THAN THE NUMBER 200 MESH SIEVE.
14. SATISFACTORY IMPORT MATERIALS CONSIST OF SOILS COMPLYING WITH AASHTO SOIL CLASSIFICATION GROUPS A-1, A-2-4, A-2-5, OR A-3.
15. FILL MATERIALS THAT ARE SATISFACTORY MUST BE FREE OF CLAY, ROCK, OR GRAVEL LARGER THAN 2 INCHES IN ANY DIMENSION, DEBRIS, WASTE, VEGETABLE, AND OTHER DELETERIOUS MATER AND LESS THAN 15% PASSING NO. 200 SIEVE.
16. STOCKPILE SATISFACTORY EXCAVATED MATERIALS UNTIL REQUIRED FOR FILL. PLACE, GRADE, AND SHAPE STOCKPILES FOR PROPER DRAINAGE.

UTILITY GENERAL NOTES:

1. ALL MAINS SHALL BE INSTALLED ACCORDING TO ENGINEERING PLANS AND SPECIFICATIONS.
2. ALL VALVES AND MATERIALS SHALL COMPLY WITH AWWA (AMERICAN WATER WORKS ASSOCIATION) STANDARDS, LATEST EDITION.
3. ALL MAIN LINE VALVES SHALL BE RESILIENT SEATED GATE VALVES.
4. THE CONTRACTOR WILL BE REQUIRED TO REMOVE & REPLACE ITEMS ENCOUNTERED IN THE FIELD, ie SIGNS, FENCING, POST, etc..
5. MAINS SHALL HAVE A MINIMUM OF 36" COVER UNLESS APPROVED BY ENGINEER.
6. CONTRACTOR IS TO FURNISH "AS BUILT PLANS" INDICATING LOCATIONS OF ALL FITTINGS, VALVES, AND DEAD END RUNS WITH THREE (3) PHYSICAL FEATURES (LOT CORNERS, TREES, ETC.).
7. ALL WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651. PRESSURE TESTING SHALL BE IN ACCORDANCE WITH AWWA C600.
8. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ENGINEER 48 HOURS PRIOR TO PRESSURE TESTING, DISINFECTION, AND BACTERIOLOGICAL TESTING. PRESSURE TESTING SHALL BE VALVE TO VALVE. CONTRACTOR SHALL USE 2" AIR RELEASE VALVE PORTS OR SHALL TAP THE WATER MAIN WITH A 1" TAPPING SADDLE.
9. BASE AND BACKFILL MATERIALS SHALL BE EITHER OF THE SAME TYPE AND COMPOSITION AS THE MATERIALS REMOVED, OR OF EQUAL OR GREATER STRUCTURAL ADEQUACY. MATERIALS CONTAMINATED WITH DELETERIOUS SUBSTANCES DURING EXCAVATION SHALL NOT BE USED FOR FILL.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FITTINGS, TAPS, EQUIPMENT AS REQUIRED FOR FLUSHING SYSTEM, PRESSURE TESTING, DISINFECTION, AND BACTERIOLOGICAL TESTING.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF EXISTING UTILITIES, AND TO DETERMINE IF OTHER UTILITIES WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK, AND TAKE WHATEVER STEP NECESSARY TO PROVIDE FOR THEIR PROTECTION.
12. UTILITIES SHOW ON THE PLAN MAY NOT BE ACCURATE AND ALL UTILITIES MAY NOT BE SHOWN.
13. THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS 48 HOURS PRIOR TO COMMENCING CONSTRUCTION AND SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION.
14. ALL VALVE BOXES SHALL BE INSTALLED PER DETAIL SHOWN. PRE-CAST VALVE PADS SHALL NOT BE USED. ALL VALVE BOX RISERS SHALL BE DUCTILE IRON, NOT PVC.
15. ALL PAVEMENT SHALL BE CUT AND PATCHED IN ACCORDANCE WITH ENGINEERING PLANS AND SPECIFICATIONS.
16. ALL CONCRETE ENCASED DUCTILE IRON SHALL BE WRAPPED WITH A PLASTIC MATERIAL AND TAPED TOGETHER BEFORE CONCRETE IS PLACED AROUND THE PIPE.
17. WHERE THERE IS LESS THAN 12" CLEARANCE BETWEEN PVC/DI PIPE AND OTHER PIPE OR SPECIFIED AREAS, THE PIPE SHALL BE ENCASED WITH 6" THICKNESS AROUND THE PIPE AND 6' CLEARANCE EACH WAY IN THE AXIAL DIRECTION.
18. THE CONTRACTOR SHALL REMOVE AND REPLACE, TO THEIR ORIGINAL NATURE, ALL DISTURBED MATERIALS OR OBJECTS WITHIN THE PATH OF THE NEW UTILITIES AS NECESSARY. ALL REPLACED MATERIALS SHALL BE EQUAL OR BETTER AND SHALL BE APPROVED BY THE ENGINEER. THIS INCLUDES ALL LANDSCAPING WITHIN THE RIGHT OF WAY IN THE PATH OF THE NEW UTILITIES.
19. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING. THE SURVEY MAY NOT SHOW ALL OBJECTS WITHIN THE PATH OF THE NEW UTILITIES. IF OBJECTS ARE NOT SHOWN ON THE SURVEY, THE CONTRACTOR SHALL NOTIFY THE ENGINEER WITHIN 7 DAYS PRIOR TO THE BID DATE. CONTRACTOR WILL BE RESPONSIBLE FOR REPLACEMENT OF ALL OBJECTS NOT SHOWN ON THE SURVEY.
20. ALL CONSTRUCTION AREAS NEAR WETLANDS ARE TO BE MONITORED CLOSELY FOR EROSION. SILT FENCE AND HAY BALES SHALL BE USED IN THESE AREAS. CONTRACTOR SHALL FOLLOW ALL THE FDEP/COE DREDGE AND FILL PERMIT REQUIREMENTS IF APPLICABLE. SEE SPECIFICATIONS.
21. ALL SPOIL MATERIAL SHALL BE PLACED ON THE UPLAND SIDE OF ANY SLOPED CONSTRUCTION AREA.
22. THE CONTRACTOR SHALL TAKE WHATEVER STEPS NECESSARY TO PREVENT EROSION INTO NEARBY WETLANDS.
23. THE CONTRACTOR SHALL USE RESTRAINED JOINT PIPE FOR ALL BENDS, TEES, VALVES, AND TRANSITION FITTINGS.
24. INSULATED 10 GA. LOCATING WIRE SHALL BE INSTALLED ON TOP OF ALL NON-METALIC PIPE. WHICH INCLUDES SERVICE CONNECTIONS. ALL LOCATING WIRE SHALL BE CONNECTED AND SHALL TERMINATE IN VALVE BOXES AND METER BOXES AS SHOWN IN THE DETAILS.
25. ALL PIPE SHALL BE INSTALLED IN DRY CONDITIONS. WELL POINTING MAY BE REQUIRED AT THE DIRECTION OF THE ENGINEER. WELL POINTS OR SOCK PIPE MAY BE USED.
26. THE FLUSHING VELOCITY SHALL BE A MINIMUM OF 3 FEET PER SECOND FOR 3 TIMES THE PIPE VOLUME. THE OWNER WILL PAY FOR THE FIRST FLUSH AND PRESSURE TEST WATER. THE CONTRACTOR WILL PAY FOR ANY WATER FOR ADDITIONAL REPAIRS, FLUSHING, AND TESTING. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY ABOVE GROUND OUTLETS AND VALVES FOR FLUSHING THE PIPES ON THIS PROJECT.
27. CONTRACTOR SHALL FOLLOW ALL OSHA REQUIREMENTS FOR CONSTRUCTION.
28. THE CONTRACTOR SHALL FOLLOW ALL CONDITIONS OF THE PERMIT REQUIREMENTS. SEE SPECIFICATIONS FOR COPY OF PERMITS.
29. ALL DISTURBED AREAS SHALL BE SODDED.
30. A ONE FOOT STRIP OF SOD SHALL BE INSTALLED ON THE EDGE OF ALL ASPHALT OVERLAY AREAS AND AROUND ALL ABOVE GROUND CONCRETE STRUCTURES INCLUDING BUT NOT LIMITED TO VALVE PADS, BLOW OFF VAULTS, AND AIR RELEASE VAULTS.
31. CONTRACTOR SHALL PROVIDE ALL FITTINGS, SLEEVES AND TRANSITION ADAPTERS AS NECESSARY TO COMPLETE THIS PROJECT.
32. GRAVITY SEWER MANHOLES LOCATED WITHIN PAVEMENT SHALL BE FLUSH WITH PROPOSED GRADE. GRAVITY SEWER MANHOLES LOCATED WITHIN GRASSED AREAS SHALL BE 3 INCHES ABOVE PROPOSED GRADE.
33. ALL PVC GRAVITY SEWER MAINS SHALL BE GREEN IN COLOR. (4" TO 15" GRAVITY SEWER MAIN - ASTM D3034 SDR 35) (GRAVITY SEWER MAIN DEEPER THAN 10 FT - SDR 26)
34. ALL PVC FORCE MAINS SHALL BE GREEN IN COLOR. PVC FORCE MAIN - C900 DR 18.
35. ALL PVC WATER MAINS SHALL BE BLUE IN COLOR (UP TO 4" WATER MAIN - CLASS 200) (4" TO 12" WATER MAIN - C900 DR18).
36. ALL WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C654.
37. PRESSURE TESTING SHALL BE IN ACCORDANCE WITH AWWA C600.
38. ALL WATER MAINS SHALL HAVE 36" MINIMUM COVER AND ALL WATER MAINS SHALL HAVE 48" MINIMUM COVER BENEATH DRAINAGE DITCHES.

EROSION AND SEDIMENT CONTROL NOTES:

CONSTRUCTION:

1. CONTRACTOR SHALL STAGE AND TIME CONSTRUCTION TO MINIMIZE THE SIZE OF EXPOSED SOIL AREAS AND THE TIME BETWEEN EXPOSING THE SOIL AREA AND FINISHING THE SOIL AREA.
2. AS SOON AS GRADING IS COMPLETE IN AN AREA, THE CONTRACTOR WILL STABILIZE THE SOIL. FOR LONG, NARROW AREAS, THE CONTRACTOR SHALL STABILIZE CONTINUOUSLY DURING GRADING OPERATIONS. ROUGH GRADED AREAS SHOULD BE STABILIZED WITH TEMPORARY EROSION CONTROL IF FINAL GRADING AND STABILIZATION WILL NOT BE PERFORMED WITHIN FIVE (5) DAYS. FAILURE TO STABILIZE EXPOSED SOIL AREAS IN A TIMELY MANNER AFTER GRADING MAY BE CONSIDERED A VIOLATION OF CHAPTERS 17-3, 17-12, AND/OR 17/25, FLORIDA ADMINISTRATIVE CODE, BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND SUBJECT TO CORRECTIVE ACTION, PURSUANT TO SECTION 403.121-403.161 FLORIDA STATUTES.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING A TASK TO PROVIDE EROSION CONTROL UNLESS ANOTHER PARTY HAS BEEN PREVIOUSLY SPECIFIED AS RESPONSIBLE FOR THE EROSION CONTROL ASSOCIATED WITH THAT TASK. IN THE EVENT ANOTHER PARTY IS RESPONSIBLE FOR EROSION CONTROL, THE CONTRACTOR SHALL STILL BE RESPONSIBLE FOR COORDINATION WITH THE PARTY RESPONSIBLE. IN THE EVENT THAT DAMAGE TO THE CONSTRUCTED ITEM RESULTS ARE DUE TO LACK OF EROSION CONTROL, THE CONTRACTOR SHALL REPAIR OR REPLACE THE ITEM AT NO CHARGE TO THE OWNER.
4. TEMPORARY EROSION CONTROL SHALL CONSIST OF TEMPORARY GRASS, TEMPORARY MULCH, TEMPORARY SOD, ARTIFICIAL COVERINGS, BALED HAY OR STRAW, SILT FENCES, AND TURBIDITY BARRIERS. TEMPORARY EROSION CONTROL SHALL BE IN ACCORDANCE WITH SECTION 104 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS.
5. PERMANENT EROSION CONTROL SHALL CONSIST OF SEED, SEED AND MULCH, HYDRO-SEEDING, SOD, AND/OR ARTIFICIAL COVERINGS. PERMANENT EROSION CONTROL SHALL BE IN ACCORDANCE WITH SECTIONS 570 AND 575 OF THE FDOT STANDARD SPECIFICATIONS. SEED OR GRASS TYPE SHALL MATCH EXISTING OR BE AS SPECIFIED BY OWNER UNLESS NOTED OTHERWISE.
6. GRASS BY SEEDING SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS. THIS SHALL BE USED ONLY IN AREAS SUBJECT TO LIGHT EROSION SUCH AS FLAT AREAS.
7. GRASS BY HYDRO-SEEDING SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS. HYDRO-SEEDING MAY BE USED FOR FLAT AREAS AND SIDE SLOPES WHICH DO NOT EXCEED 4:1. DRAINAGE DITCHES OR LARGE SWALES MUST HAVE ADDITIONAL PROTECTION BESIDES HYDRO-SEEDING.
8. GRASS AND MULCH SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS. GRASS AND MULCH MAY BE USED IN ALL AREAS EXCEPT LARGE SWALES OR DITCHES. MULCH SHALL BE ANCHORED IN ACCORDANCE WITH SECTION 570. SOLID SOD SHALL BE IN ACCORDANCE WITH SECTIONS 104, 575, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS. SOD MAY BE USED IN ALL AREAS FOR SIDE SLOPES LESS THAN 2:1. SOD SHOULD NOT BE USED ON SLOPES GREATER THAN 1:2 (V:H). EROSION CONTROL BLANKETS WITH GRASSING OR OTHER SLOPE STABILIZATION TECHNIQUES SHOULD BE USED ON SLOPES GREATER THAN 1:2. SOD SHALL BE STAGGERED SO AS TO AVOID A CONTINUOUS SEAM. IN AREAS WITH SLOPES 3:1 OR STEEPER, EACH PIECE OF SOD SHALL BE PEGGED WITH SOD PEGS. IN DIFFICULT SOIL CONDITIONS WITH STEEP SLOPES, IT MAY NECESSARY TO COVER SOD WITH ARTIFICIAL COVERINGS SUCH AS JUTE MESH UNTIL SOD BECOMES ESTABLISHED.
9. TEMPORARY EROSION CONTROL BY ARTIFICIAL COVERINGS SHALL CONSIST OF STRAW BLANKETS, COCONUT FIBER BLANKETS, POLYESTER BLANKETS, JUTE MESH, AND DRAINAGE FABRICS. MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SEEDING SHALL BE INCLUDED IF MATERIAL REQUIRES VEGETATION TO FUNCTION PROPERLY.
10. THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/ SEDIMENTATION BARRIER (HAY BALES, SILT FENCE, TURBIDITY BARRIER, OR AS SPECIFIED IN THE CONSTRUCTION DRAWINGS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS, AND WETLAND OR JURISDICTIONAL AREAS. IF, IN THE OPINION OF THE ENGINEER, AND/OR REGULATORY AUTHORITIES, EXCESSIVE QUANTITIES OF MATERIAL ARE TRANSPORTED OFFSITE BY EROSION OR STORM WATER RUNOFF, THE CONTRACTOR SHALL IMPROVE CONDITIONS TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES IN NO CASE SHALL CONSTRUCTION COMMENCE PRIOR TO INSTALLATION OF EROSION CONTROL/SEDIMENTATION BARRIER.
11. CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION-RELATED TRAFFIC IS TO ENTER AND EXIT SITE.
12. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AREA USING SPRINKLING IRRIGATION OR OTHER ACCEPTABLE METHODS.

MAINTENANCE:

13. THE CONTRACTOR SHALL PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY EROSION CONTROL FEATURES. UNTIL THE PROJECT IS COMPLETED AND ACCEPTED. THEN MAINTENANCE SHALL BE IN ACCORDANCE WITH SECTION 104 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS OR BAY COUNTY SPECIFICATIONS.
14. SILT FENCES AND TURBIDITY BARRIERS SHALL BE CHECKED DAILY FOR EFFECTIVENESS, BREACHES, AND ROUTINE MAINTENANCE.

UTILITY CONTACTS:

OWNER

BAY COUNTY TRAFFIC
CITY OF PANAMA CITY
KNOLOGY HOLDINGS
COMCAST CABLE
SOUTHERN LIGHT
GULF POWER
AT&T
AT&T DISTRIBUTION
TECO GAS

Dewberry | PREBLE-REISH

FLA FLORIDA ARCHITECTS LICENSE #AA0002730

GULF COAST STATE COLLEGE SINCE 1957

NOT APPROVED UNLESS STAMPED WITH PROFESSIONAL ENGINEERS' SEAL

BID NUMBER - ITB#6-2016/2017

May 29, 2017 (15:50:34 EST)
K:\60087410 GCSC-NEW SOFTBALL FIELD_CIVIL3DFOLDER_PRODUCTION\60087410 COVER_NOTES_DETAILS.DWG

SYMBOLS & ABBREVIATIONS:

NO. = NUMBER
INV. = INVERT
L = ARC LENGTH
R = RADIUS
D = DELTA ANGLE
CB = CHORD BEARING
CH = CHORD LENGTH
RCP = REINFORCED CONCRETE PIPE
R/W = RIGHT OF WAY
⊗ = FOUND IRON ROD OR IRON PIPE
⊠ = FOUND CONCRETE MONUMENT
= TRAFFIC SIGN
Ⓢ = SANITARY SEWER MANHOLE
= TEMPORARY BENCHMARK
= UTILITY POLE
10.38 × = SPOT ELEVATION AT "X"
= CONTOUR ELEVATION AT 1' INTERVALS
= OVERHEAD UTILITY LINE
= EXISTING ASPHALT PAVEMENT
= EXISTING CONCRETE

SOURCE BENCHMARKS:

1. FOUND CONCRETE MONUMENT 46-00-A03HV – ELEVATION = 9.34'
2. FOUND CONCRETE MONUMENT 46-00-A06HV – ELEVATION = 13.44' (NOT GRAPHICALLY SHOWN)

SITE BENCHMARKS:

1. SET NAIL & DISK NO. LB 7137 IN UTILITY POLE – ELEVATION = 9.78'
2. SET NAIL & DISK NO. LB 7137 IN UTILITY POLE – ELEVATION = 8.43'

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

34"x53"RCP INV.=1.45'
CONC. HW TOP=6.09' 34"x53"RCP INV.=1.94'
HANDRAIL
BFG MARKER
R/W
EXISTING PROPERTY LINE (TYP)
21ST STREET (NOT OPEN)
(PLATTED AS MAXWELL AVENUE)
SEWER MANHOLE TOP=7.01' N&S 8"PVC INV.=2.31' (FULL OF WATER)
PLATTED AS MOTES STREET (NOT OPEN)
STATE ROAD NO. 368 (23RD STREET)
CONC. HW TOP=3.92' 34"x53"RCP INV.=-0.11' HANDRAIL
SITE BENCHMARK NO. 1 SET NAIL & DISK NO. LB 7137 IN UTY POLE TBM ELEV.=9.78'
GRATE INLET GRATE EL.=3.98 18"CPE INV.=1.81 SLOT EL.=3.95 SKIMMER TOP=4.45 SKIMMER BOTTOM=3.85 ORIFICE EL.=1.98 ORIFICE DIA.=1.75"
MES w/ RIP-RAP 18"CPE INV.=2.00'
SOURCE BENCHMARK CONC. MONUMENT 46-00-A03HV ELEV.=9.34'
42"RCP MES INV.=0.76'
CB TOP=7.42'
EXISTING PROPERTY LINE (TYP)
SEWER MANHOLE TOP=6.77' N&S 8"PVC INV.=1.30' (FULL OF WATER)
GAS LINE MARKER
20TH STREET
CONC. HEADWALL TOP=8.60' 18"RCP INV.=6.80'
CONC.HEADWALL TOP=8.91' 18" RCP INV.=6.82'
18" RCP INV.=3.55'
CONCRETE HEADWALL TOP=6.70' 15" RCP W INV.=3.66' 24" RCP E INV.=3.33'
SITE BENCHMARK NO. 2 SET NAIL & DISK NO. LB 7137 IN UTIL. POLE TBM ELEV.=8.43'
SEWER MANHOLE TOP=8.62' 18" PVC E INV.=0.50' 18" PVC W INV.=0.60'
(PLATTED) R/W
CL RAILROAD TRACK
PLATTED RIGHT OF WAY LINE
SEWER MANHOLE TOP = 7.50' 8" PVC N INV.=0.35' 18" PVC E INV.=-0.22' 18" PVC W INV.=-0.13' 8" PVC S INV.=0.36'
PLATTED AS MOTES STREET (NOT OPEN)

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GULF COAST STATE COLLEGE SINCE 1957

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BID NUMBER - ITB#6-2016/2017

May 4, 2017 (18:14:51 EST)
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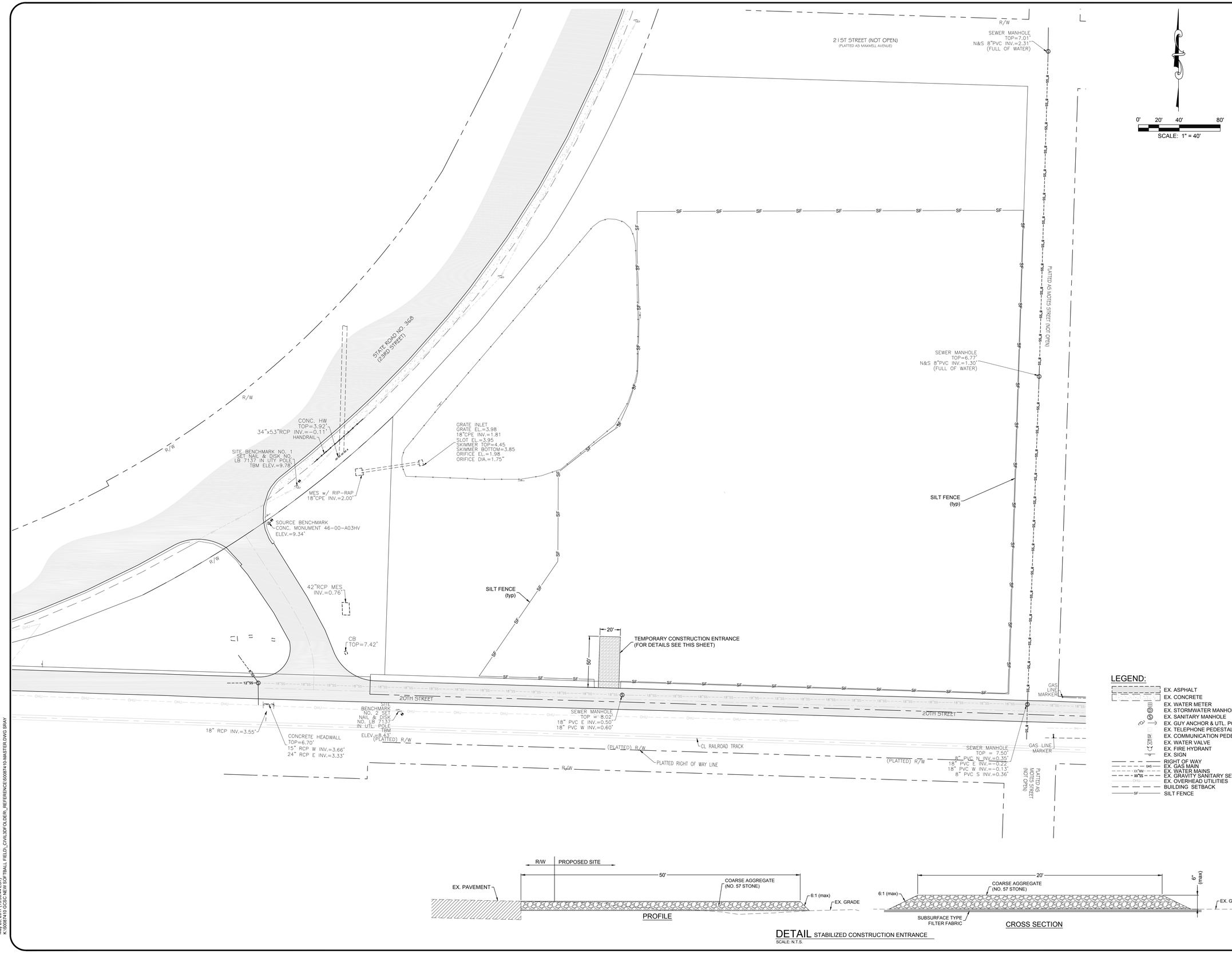

DETAIL STABILIZED CONSTRUCTION ENTRANCE

SCALE: N.T.S.

LEGEND:

- EX. ASPHALT
- EX. CONCRETE
- EX. WATER METER
- EX. STORMWATER MANHOLE
- EX. SANITARY MANHOLE
- EX. GUY ANCHOR & UTL. POLE
- EX. TELEPHONE PEDESTAL
- EX. COMMUNICATION PEDESTAL
- EX. WATER VALVE
- EX. FIRE HYDRANT
- EX. SIGN
- RIGHT OF WAY
- GAS — EX. GAS MAIN
- XX"W — EX. WATER MAINS
- XX"SS — EX. GRAVITY SANITARY SEWER
- OHU — EX. OVERHEAD UTILITIES
- BUILDING SETBACK
- SF — SILT FENCE

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CONSULTANTS:

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LICENSE #AA0002730

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SINCE 1957

CLIENT:

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PROJECT:

GCSC SOFTBALL COMPLEX

NOT APPROVED UNLESS STAMPED WITH PROFESSIONAL ENGINEERS SEAL

JONATHAN SKLARSKI, P.E. 67361
EB 0008794

100%
CONSTRUCTION DOCUMENTS

SCALE:	DATE:
1" = 30'	MAY 2017
DRAWN: S. RAY	CHECKED: J. SKLARSKI

NO.	REVISION:	DATE:

SHEET TITLE:

EROSION CONTROL PLAN

PROJECT NO.	SHEET
50087410	C3
BID NUMBER - ITB#6-2016/2017	

May 20, 2017 (15:50:44 EST)
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LEGEND:

- EX. ASPHALT
- EX. CONCRETE
- EX. WATER METER
- EX. STORMWATER MANHOLE
- EX. SANITARY MANHOLE
- EX. GUY ANCHOR & UTL. POLE
- EX. TELEPHONE PEDESTAL
- EX. COMMUNICATION PEDESTAL
- EX. FIRE HYDRANT
- EX. SIGN
- RIGHT OF WAY
- EX. OVERHEAD UTILITIES
- SILT FENCE
- NEW ASPHALT PAVEMENT
- NEW CONCRETE
- NEW WATER METER
- NEW FIRE HYDRANT ASSEMBLY
- NEW SANITARY SEWER MANHOLE

0' 15' 30' 60'

SCALE: 1" = 30'

NOTES:

1. ALL CHAINLINK FENCING AND GATES SHALL BE BLACK EPOXY COATED.

FUTURE FIELD
150'
330'
FLAG POLE
20'x20' STORAGE
4' CHAINLINK FENCE
4'x20' DOUBLE SLIDE GATES w/ TRACK SYSTEM
40'x20' TARP STORAGE
6' CHAINLINK FENCE
60'x40' BATTING CAGES
60'x20' BULL PEN
4'x4' GATE
PADDED FENCE w/ NETTING
6'x4' GATE
PUBLIC RESTROOMS (SEE ARCHITECT PLANS)
LOCKER ROOM (SEE ARCHITECT PLANS)
HOME DUGOUT (SEE ARCHITECT PLANS)
BLEACHER SLAB (SEE STRUCTURAL PLANS)
BLEACHERS (SEE ARCHITECT PLANS)
VISITOR DUGOUT (SEE ARCHITECT PLANS)
PRESS BOX (SEE ARCHITECT PLANS)
FOOD TRUCK AREA
6'x8' DOUBLE GATES (MAIN ENTRANCE)
6" THK. CONCRETE
IRRIGATION WELL(SEE LANDSCAPING PLANS)
6'x14' DOUBLE GATES (FOOD TRUCK ACCESS)
HANDICAP RAMP
4" YELLOW GORE PAINT STRIPING
STANDARD PARKING SPACE STRIPING (typ) (SEE DETAIL SHEET D5)
6'x5' GATE
FIRST RESPONDER ACCESS (4'x12' DOUBLE GATES)
HANDICAP PARKING SPACE STRIPING (TYP) (SEE DETAIL SHEET D3)
24" WIDE STOP BAR (SEE DETAIL SHEET D5)
4" YELLOW GORE
CONC. WHEEL STOP (SEE DETAIL SHEET D5) (typ)
STOP R01-01
EMERGENCY VEHICLES ONLY R01-01
SCORE BOARD
SEWER MANHOLE TOP=6.77' N&S 8"PVC INV.=1.30' (FULL OF WATER)
PLATTED AS MOTTS STREET (NOT OPEN)
NOTE: SEE SHEET C6 & C7 FOR SOFTBALL FIELD DETAILS
EXISTING STORMWATER POND
GRATE INLET GRATE EL.=3.98 18"CPE INV.=1.81 SLOT EL.=3.95 SKIMMER TOP=4.45 SKIMMER BOTTOM=3.85 ORIFICE EL.=1.98 ORIFICE DIA.=1.75"
STATE ROAD NO. 368 (23RD STREET)
CONC. HW TOP=3.92' 34"x53"RCP INV.=-0.11'
HANDRAIL
SITE BENCHMARK NO. 1 SET NAIL & DISK NO. LB 7137 IN UTY POLE TBM ELEV.=9.78'
MES w/ RIP-RAP 18"CPE INV.=2.00'
SOURCE BENCHMARK CONC. MONUMENT 46-00-A03HV ELEV.=9.34'
CATCH BASIN TOP=7.07' BOTTOM=1.04'
CATCH BASIN TOP=6.96' BOTTOM=1.18'
CONC. MES 15"RCP INV.=1.46'
SEWER MANHOLE TOP = 7.58' 8" PVC NW INV.=1.72' 18" PVC E INV.=0.53' 8" PVC S INV.=0.79' 12" PVC W INV.=1.63'
42"RCP MES INV.=0.76'
CB TOP=7.42'
18" RCP INV.=3.55'
CONCRETE HEADWALL TOP=6.70' 15" RCP W INV.=3.66' 24" RCP E INV.=3.33'
SITE BENCHMARK NO. 2 SET NAIL & DISK NO. LB 7137 IN UTL. POLE TBM ELEV.=8.43'
SEWER MANHOLE TOP = 8.02' 18" PVC E INV.=0.50' 18" PVC W INV.=0.60'
SEWER MANHOLE TOP = 7.50' 8" PVC N INV.=0.35' 18" PVC E INV.=-0.22' 18" PVC W INV.=-0.13' 8" PVC S INV.=0.36'
GAS LINE MARKER
20TH STREET
(PLATTED) R/W
CL RAILROAD TRACK
PLATTED RIGHT OF WAY LINE
R/W
OHU
SF

May 20, 2017 (15:50:44 EST)
K:\50087410 GCSC\ NEW SOFTBALL FIELD_CIVIL3D\FOLDER_REFERENCE\50087410-MASTER.DWG SRAY

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(850) 522-0644

CONSULTANTS:

FLORIDA ARCHITECTS LICENSE #AA0002730

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CLIENT:

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PROJECT:

GCSC SOFTBALL COMPLEX

NOT APPROVED UNLESS STAMPED WITH PROFESSIONAL ENGINEER'S SEAL

JONATHAN SKLARSKI, P.E. 67361
EB 0008794

100%
CONSTRUCTION DOCUMENTS

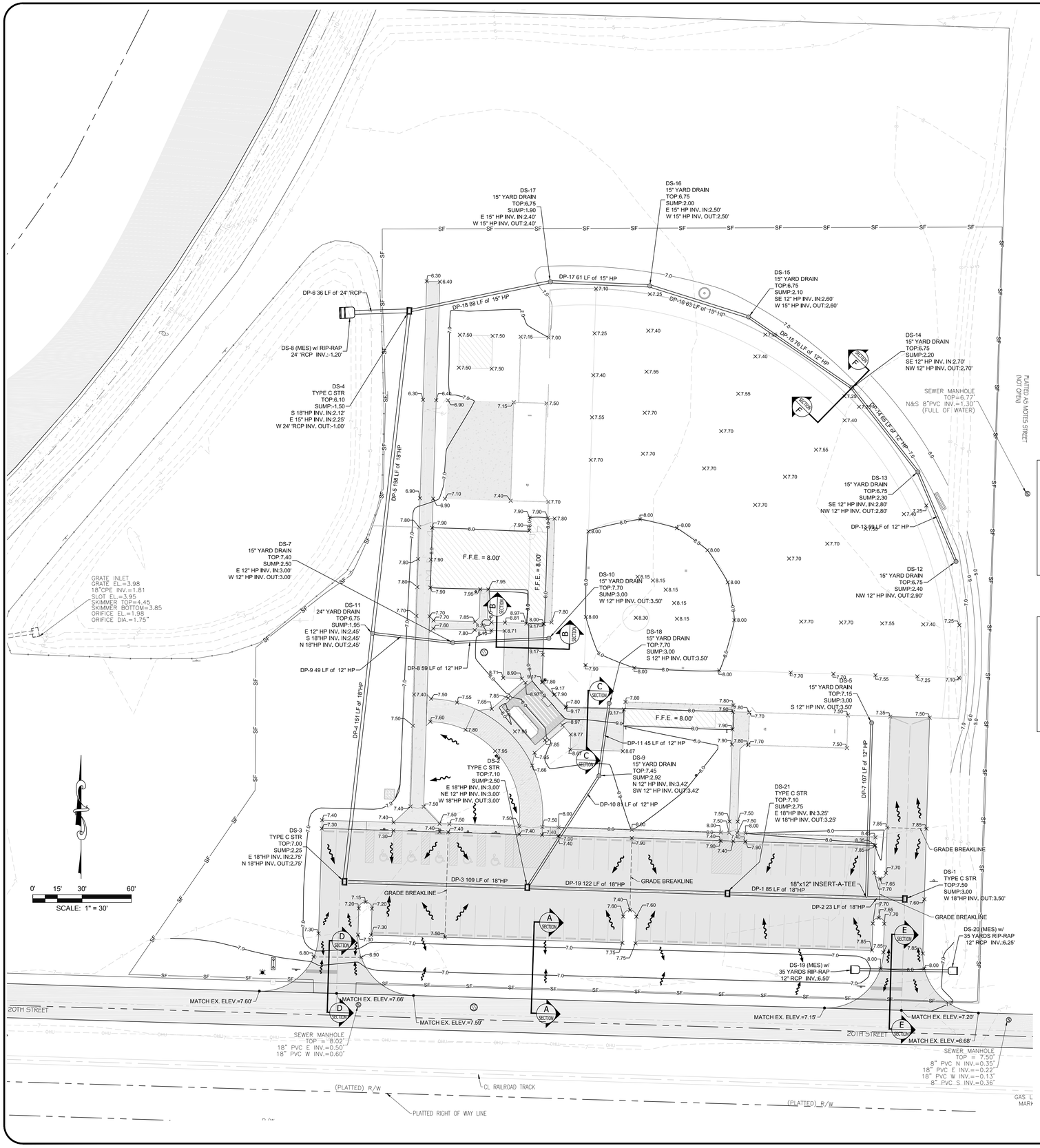
SCALE:	DATE:
1" = 30'	MAY 2017
DRAWN: S. RAY	CHECKED: J. SKLARSKI

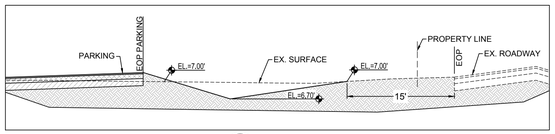
NO.	REVISION:	DATE:

SHEET TITLE:

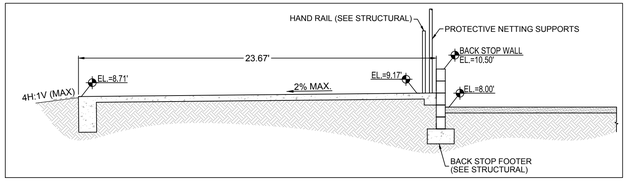
SITE GEOMETRY

PROJECT NO.	SHEET
50087410	C4
BID NUMBER - ITB#6-2016/2017	

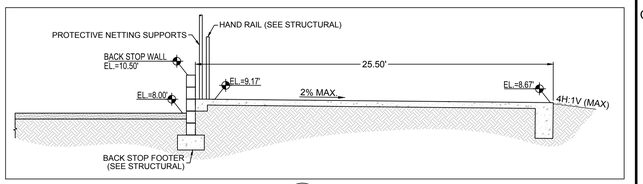




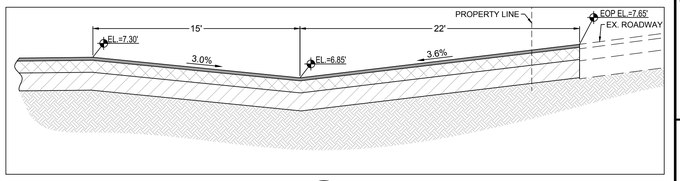
A-A SECTION
NTS



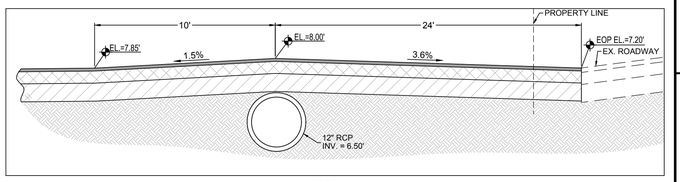
B-B SECTION
NTS



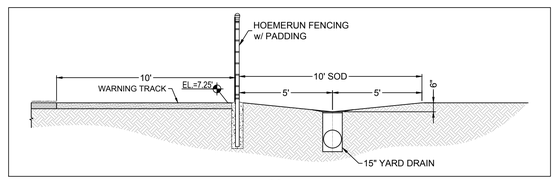
C-C SECTION
NTS



D-D SECTION
NTS



E-E SECTION
NTS



F-F SECTION
NTS

NOTES:
1. ALL YARD DRAINS SHALL HAVE PEDESTRIAN RATED GRATES.
2. ALL RIP-RAP SHALL BE FDOT DITCH LINING RIP-RAP, STANDARD SPECIFICATION 530.

LEGEND:
- EX. ASPHALT
- EX. CONCRETE
- EX. WATER METER
- EX. STORMWATER MANHOLE
- EX. SANITARY MANHOLE
- EX. GUY ANCHOR & UTL. POLE
- EX. TELEPHONE PEDESTAL
- EX. COMMUNICATION PEDESTAL
- EX. FIRE HYDRANT
- RIGHT OF WAY
- SILT FENCE
- NEW ASPHALT PAVEMENT
- NEW CONCRETE
- NEW SPOT ELEVATION
- FLOW ARROW

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CONSULTANTS:
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LICENSE #AA0002730

GULF COAST STATE COLLEGE
SINCE 1957

CLIENT:
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gulfcoast.edu

PROJECT:
GCSC SOFTBALL COMPLEX

NOT APPROVED UNLESS STAMPED WITH PROFESSIONAL ENGINEERS SEAL

JONATHAN SKLARSKI, P.E. 67361
EB 0008794

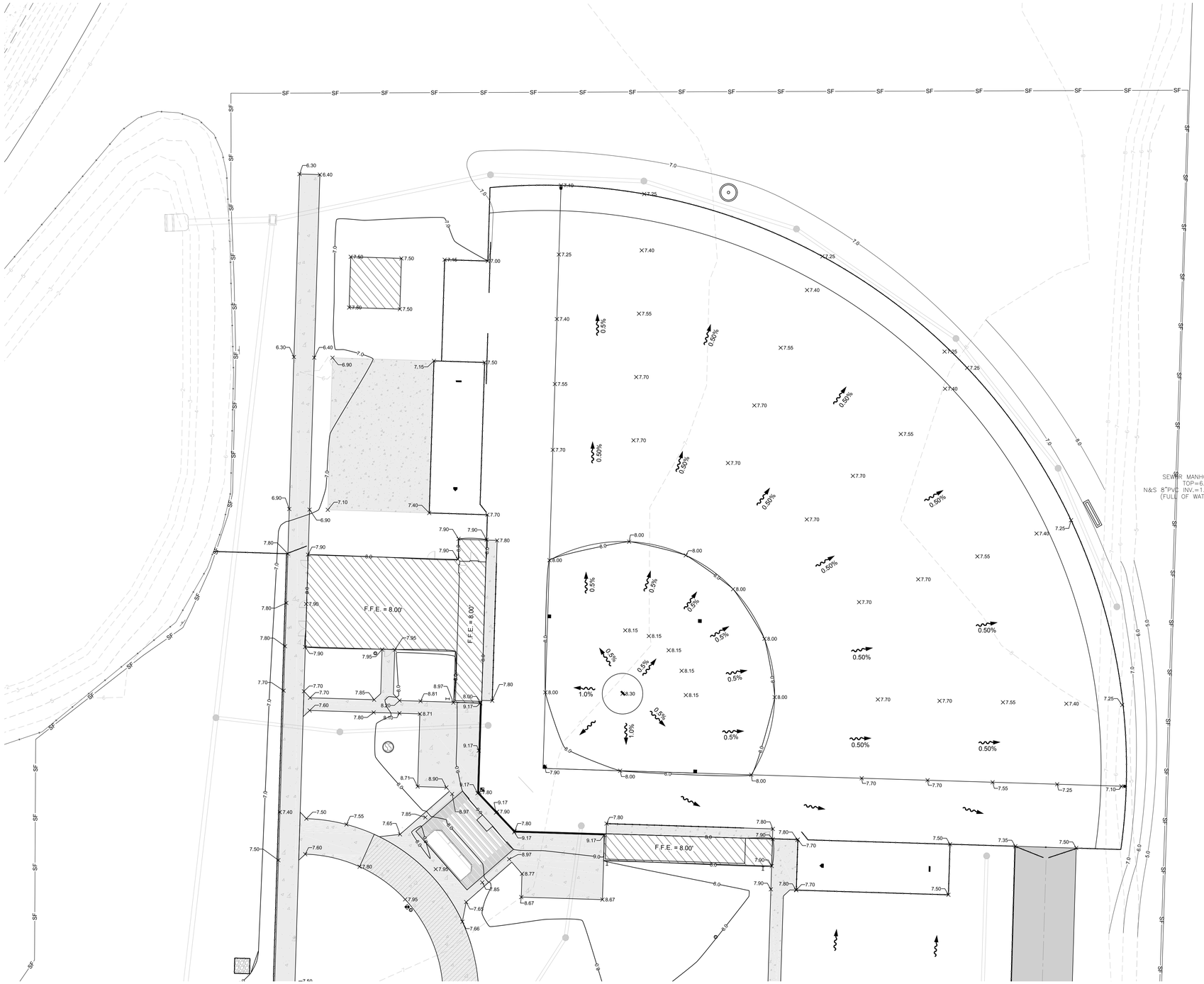
100%
CONSTRUCTION DOCUMENTS

SCALE: 1" = 30'	DATE: MAY 2017
DRAWN: S. RAY	CHECKED: J. SKLARSKI

NO.	REVISION:	DATE:

SHEET TITLE:
GRADING & DRAINAGE

PROJECT NO. 50087410 BID NUMBER - ITB#6-2016/2017	SHEET C5



0' 10' 20' 40'

SCALE: 1" = 20'

PLOTTED (4:5 MOTES STREET (NOT OPEN)

LEGEND:

- EX. ASPHALT
- EX. CONCRETE
- EX. WATER METER
- EX. STORMWATER MANHOLE
- EX. SANITARY MANHOLE
- EX. GUY ANCHOR & UTL. POLE
- EX. TELEPHONE PEDESTAL
- EX. COMMUNICATION PEDESTAL
- EX. FIRE HYDRANT
- RIGHT OF WAY
- SILT FENCE
- NEW ASPHALT PAVEMENT
- NEW CONCRETE
- NEW SPOT ELEVATION
- FLOW ARROW

May 20, 2017 (15:50:44 EST)
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PROJECT:
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JONATHAN SKLARSKI, P.E. 67361
EB 0008794

100%
CONSTRUCTION DOCUMENTS

SCALE:	DATE:
1" = 20'	MAY 2017
DRAWN: S. RAY	CHECKED: J. SKLARSKI

NO.	REVISION:	DATE:

SHEET TITLE:
FIELD GRADING PLAN

PROJECT NO.	SHEET
50087410	C6
BID NUMBER - ITB#6-2016/2017	

SOD - TIFTWAY 419 BERMUDA - CERTIFIED

WARNING TRACK - 4" THICK GROUND AGGREGATE, 3/16" MAX. MIXED WITH FINER PARTICLES - COLOR RED

SKIN SURFACE (INFIELD) - 4" THICK - 75% SAND, 25% CLAY - COLOR RED (NO GRAVEL)

CONCRETE - 4" THICK - 2,500 PSI

NOTES:

1. ALL SOFTBALL FIELD AND SOFTBALL FIELD COMPONENTS SHALL BE CONSTRUCTED AND INSTALLED PER NCAA AND NJCAA RULES AND REGULATIONS.
2. ALL SOFTBALL FIELD COMPONENTS SHALL BE INSTALLED PER MANUFACTURER/SUPPLIER REGULATIONS UNLESS OTHERWISE SPECIFIED.
3. ALL COLOR PALETTES WILL BE SELECTED DURING THE SHOP DRAWING/MATERIAL SUBMITTAL REVIEW PROCESS UNLESS OTHERWISE STATED.
4. REFER TO SPECIFICATIONS SECTION 008200, SPECIAL CONDITIONS, ARTICLE 15 FOR SUBSTITUTION OF MATERIALS AND EQUIPMENT.

SOFTBALL FIELD COMPONENTS

1. FLAG POLE - SEE ARCHITECTURAL / SPECIFICATIONS.
2. * SCORE BOARD - DAKTRONICS:
   - PANAVIEW-BA2026-AR-PV-PFR
   - ALL SPORT 5010 CONTROL CONSOLE KIT
   - DA-100136-ARCH TRUSS

   (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION)
3. HOME RUN FENCE (6 FT) - 6' BLACK VINYL COATED w/ NETTING PROFESSIONAL PADDING, MODEL:NP-WALLPADPRO
4. WARNING TRACK (10 FT WIDE) - 4" THICK GROUND AGGREGATE 3/16" MAXIMUM MIX WITH FINE PARTICLES - COLOR RED
5. * FOUL POLE (20 FT HEIGHT)
6. PITCHER PLATE - (DIMENSIONS) 24"x6" AND ANCHORED PER MANUFACTURERS RECOMMENDATIONS.
7. BASES - (DIMENSIONS) 15"x15"x1 ½"-3 ½" THK. AND ANCHORED PER MANUFACTURERS RECOMMENDATIONS.
8. HOME PLATE - (DIMENSIONS):
   FRONT EDGE = 17"
   SIDES PARALLEL TO BATTERS BOX = 8 ½"
   SIDES OF POINT FACING CATCHER = 12"
9. * DUGOUT FENCE (10 FT HEIGHT) w/ HORIZONTAL LEAN RAIL - NETTING PROFESSIONALS PADDING, MODEL: NP-RAILPAD-ST
10. * 24" CMU BACKSTOP w/ - NETTING PROFESSIONALS PADDING, MODEL: NP-WALLPADPRO
11. BALL CONTROL NETTING SYSTEM (20 HEIGHT).

* SEE STRUCTURAL PLANS FOR FOUNDATION DESIGN.

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PROJECT:
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EB 0008794

100%
CONSTRUCTION DOCUMENTS

SCALE:	DATE:
1" = 20'	MAY 2017
DRAWN: S. RAY	CHECKED: J. SKLARSKI

NO.	REVISION:	DATE:

SHEET TITLE:
FIELD DETAIL PLAN

PROJECT NO.	SHEET
50087410	C7
BID NUMBER - ITB#6-2016/2017	

May 20, 2017 (15:50:44 EST)
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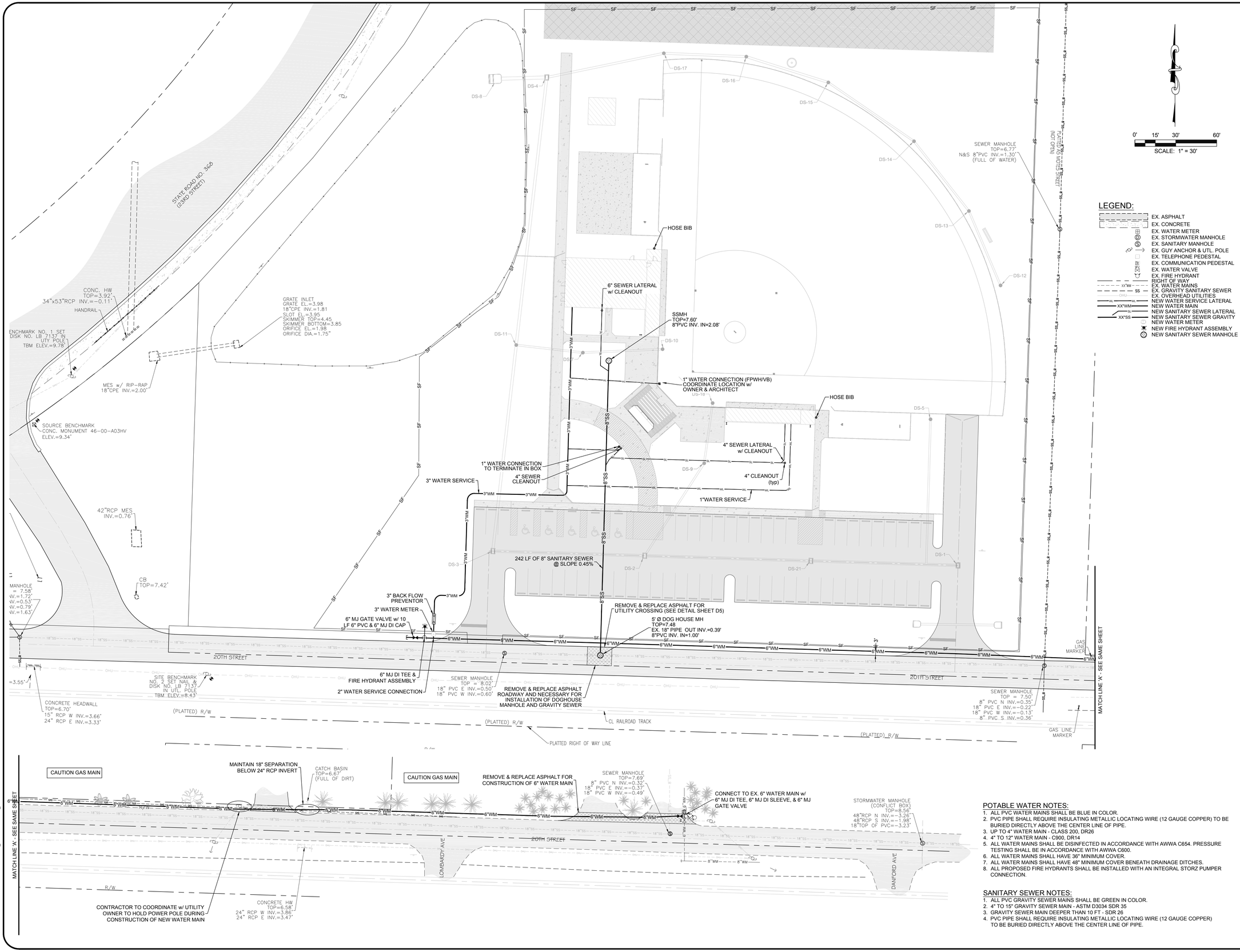

POTABLE WATER NOTES:

1. ALL PVC WATER MAINS SHALL BE BLUE IN COLOR.
2. PVC PIPE SHALL REQUIRE INSULATING METALLIC LOCATING WIRE (12 GAUGE COPPER) TO BE BURIED DIRECTLY ABOVE THE CENTER LINE OF PIPE.
3. UP TO 4" WATER MAIN - CLASS 200, DR26
4. 4" TO 12" WATER MAIN - C900, DR14
5. ALL WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C654. PRESSURE TESTING SHALL BE IN ACCORDANCE WITH AWWA C600.
6. ALL WATER MAINS SHALL HAVE 36" MINIMUM COVER.
7. ALL WATER MAINS SHALL HAVE 48" MINIMUM COVER BENEATH DRAINAGE DITCHES.
8. ALL PROPOSED FIRE HYDRANTS SHALL BE INSTALLED WITH AN INTEGRAL STORZ PUMPER CONNECTION.

SANITARY SEWER NOTES:

1. ALL PVC GRAVITY SEWER MAINS SHALL BE GREEN IN COLOR.
2. 4" TO 15" GRAVITY SEWER MAIN - ASTM D3034 SDR 35
3. GRAVITY SEWER MAIN DEEPER THAN 10 FT - SDR 26
4. PVC PIPE SHALL REQUIRE INSULATING METALLIC LOCATING WIRE (12 GAUGE COPPER) TO BE BURIED DIRECTLY ABOVE THE CENTER LINE OF PIPE.

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PROJECT:
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JONATHAN SKLARSKI, P.E. 67361
EB 0008794

100%
CONSTRUCTION DOCUMENTS

SCALE:	DATE:
1" = 30'	MAY 2017
DRAWN: S. RAY	CHECKED: J. SKLARSKI

NO.	REVISION:	DATE:

SHEET TITLE:
UTILITY PLAN

PROJECT NO. 50087410
BID NUMBER - ITB#6-2016/2017

SHEET C8

May 20, 2017 (15:50:44 EST)
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STORMWATER POLLUTION PREVENTION PLAN (SWPPP):

1. SITE DESCRIPTION:
   - A. CONSTRUCTION ACTIVITY: CONSTRUCTION OF A NEW SOFTBALL COMPLEX
     PROJECT LIMITS: SEE SHEET C4
   - B. MAJOR SOIL DISTURBING ACTIVITIES: INSTALLATION OF A NEW SOFTBALL COMPLEX AND PARKING AREA
   - C. TOTAL PROJECT AREA: 7.31 AC
     TOTAL SOIL AREA TO BE DISTURBED: 3.20 AC
   - D. (1) RUNOFF COEFFICIENTS BEFORE, DURING, AND AFTER CONSTRUCTION: BEFORE: 0.30, DURING: 0.45, AFTER: 0.67
     (2) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE: SEE GEOTECHNICAL REPORT
     (3)ESTIMATES OF SIZE OF DRAINAGE AREA FOR OUTFALL: OUTFALL POND = 7.31 AC
   - E. FOR LOCATIONS OF DRAINAGE AREAS AND OUTFALLS: N/A
   - F. (1) NAME OF RECEIVING WATERS: NORTH BAY
     (2) WETLAND AREA: N/A

2. CONTROLS:
   NARRATIVE - SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS
   THE SOIL DISTURBING ACTIVITIES FOR THIS PROJECT ARE AS FOLLOWS: ONLY UPON PROPER PLACEMENT OF ALL EROSION CONTROLS CAN SOIL DISTURBING ACTIVITIES TAKE PLACE. HAY BALES AND SILT FENCE WILL BE USED LATERALLY AT SPECIFIED INTERVALS, HAY BALES SHALL BE USED TO PREVENT SEDIMENTATION FROM ESCAPING PROJECT LIMITS. EROSION CONTROLS SHALL REMAIN IN PLACE UNTIL THE SITE IS STABILIZED.

   - A. EROSION AND SEDIMENT CONTROLS:
     - (1) STABILIZATION PRACTICES:
       - TEMPORARY SODDING
       - X TEMPORARY GRASSING
       - X PERMANENT PLANTING, SODDING, OR SEEDING
       - TEMPORARY MULCHING
       - ARTIFICIAL COVERING
       - X BUFFER ZONES
       - X PRESERVATION OF NATURAL RESOURCES
     - (2) STRUCTURAL PRACTICES:
       - SAND BAGGING
       - X SILT FENCES
       - X HAY BALES
       - X BERMS
       - DIVERSION, INTERCEPTOR, OR PERIMETER DITCHES
       - PIPE SLOPE DRAINS
       - FLUMES
       - X ROCK BEDDING AT CONSTRUCTION EXIT
       - TIMBER BEDDING AT CONSTRUCTION EXIT
       - DITCH LINER
       - SEDIMENT TRAPS
       - SEDIMENT BASINS
       - STORM INLET SEDIMENT TRAP (ROCK BAGS)
       - STONE OUTLET STRUCTURES
       - CURBS AND GUTTERS
       - STORM SEWERS
       - X VELOCITY CONTROL DEVICES
       - TURBIDITY BARRIER
       - X RIP RAP
   - B. DESCRIPTION OF STORMWATER MANAGEMENT: STORM WATER TO BE MANAGED ON-SITE BY TWO (2) WET DETENTION PONDS.
   - C. OTHER CONTROLS:
     - (1) WASTE DISPOSAL: NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE
     - (2) OFFSITE VEHICLE TRACKING:
       - HAUL ROADS DAMPENED FOR DUST CONTROL
       - X LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
       - X EXCESS DIRT ON ROAD REMOVED DAILY
       - X STABILIZED CONSTRUCTION ENTRANCE
     - (3) SANITARY WASTE: N/A
     - (4) FERTILIZERS AND PESTICIDES: FERTILIZERS AND/OR PESTICIDES SHALL BE APPLIED ACCORDING TO MANUFACTURERS RECOMMENDATIONS BY A LICENSED OR CERTIFIED APPLICATOR AS DIRECTED BY THE PROJECT ENGINEER.
     - (5) NON-STORMWATER DISCHARGE (INCLUDING SPILL REPORTING): TO BE USED DURING DEWATERING PROPER BMPS
   - D. APPROVED STATE, LOCAL PLANS, OR STORMWATER PERMITS: FDEP WASTE WATER PERMIT, FDEP POTABLE WATER PERMIT, BAY COUNTY CONSTRUCTION IN RIGHT OF WAY PERMIT, BAY COUNTY DEVELOPMENT ORDER, AND FDEP/NWFWMD ENVIRONMENTAL RESOURCE PERMIT

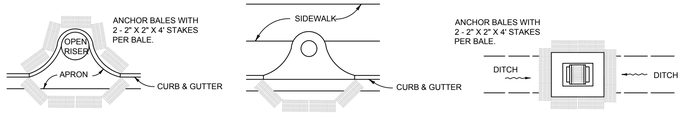
3. MAINTENANCE:
   ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN (7) CALENDAR DAYS AFTER THE SURROUNDING EXPOSED AREA HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT.

4. INSPECTION:
   ALL CONTROLS SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AS WELL AS AFTER 0.25' OR MORE OF RAIN. AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER EACH INSPECTION. BASED ON INSPECTION RESULTS THE CONTROLS SHALL BE REVISED PER THE INSPECTION REPORTS.
   - A. THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTION THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAGES AND DAILY RAINFALL RECORDS. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT AND CERTIFY THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.
   - B. IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS NEEDED.
   - C. RECORDS OF THE INSPECTION AND THE CONSTRUCTION PERMIT MUST BE MAINTAINED AT THE CONSTRUCTION SITE AND BE READILY AVAILABLE FOR INSPECTION.

5. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR OBTAINING COVERAGE UNDER THE GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PRIOR TO START OF CONSTRUCTION OR ANY DISTURBANCE OF LAND GREATER THAN ONE ACRE. THE DEVELOPER/CONTRACTOR WILL FORWARD A COPY OF THE PERMIT AND WILL PROVIDE 24 HOUR NOTIFICATION TO THE CITY AT COUNTY PRIOR TO COMMENCEMENT OF WORK. ALL REQUIRED ELEMENTS OF THE STORMWATER POLLUTION PREVENTION PLAN MUST BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION. FAILURE TO COMPLY COULD RESULT IN CODE ENFORCEMENT ACTION AND FINES.

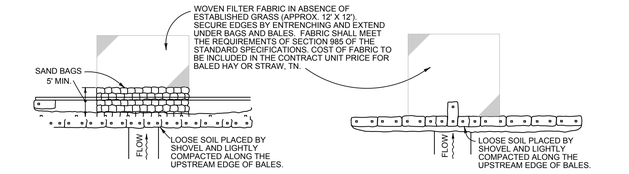
6. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR FOLLOWING REQUIRED WASTE MANAGEMENT PRACTICES AS DEFINED IN THE BAY COUNTY MUNICIPAL CODE SECTION 22-91 "UNLAWFUL DISPOSAL OF WASTE, FAILURE TO DELIVER WASTE," WHICH MAKES IT UNLAWFUL FOR ANY PERSON TO DUMP, LEAVE OR BURY ANY SOLID WASTE ON PUBLIC OR PRIVATE PROPERTY.

7. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE DEWATERING PERMIT AS REQUIRED



PARTIAL INLET — COMPLETED INLET — DITCH BOTTOM INLET

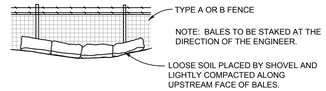
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



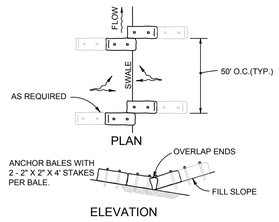
APPLICATION AND SPACING: THE USE OF TYPES I & II BALE BARRIERS SHOULD BE LIMITED TO THE CONDITIONS OUTLINED IN THE CHART BELOW.

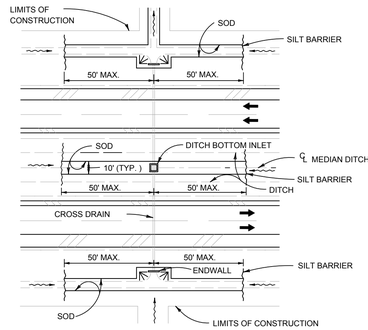
TYPE II — TYPE I

BARRIER FOR UNPAVED DITCHES

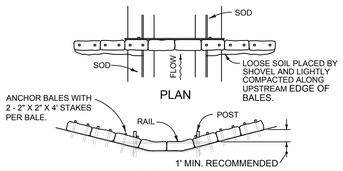


BALES BACKED BY FENCE



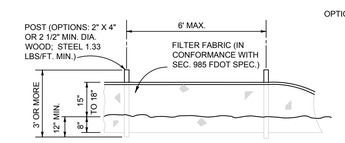


DITCH INSTALLATIONS AT DRAINAGE STRUCTURES

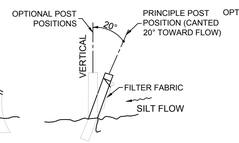


SPACING: BALE BARRIERS FOR PAVED DITCHES SHOULD BE SPACED IN ACCORDANCE WITH THE CHART BELOW

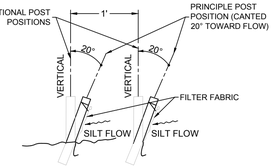
BARRIER FOR PAVED DITCH



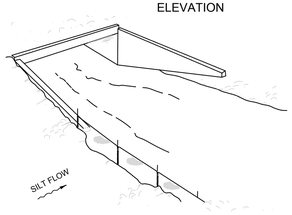
ELEVATION



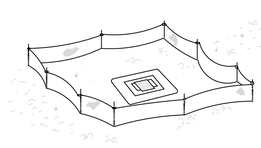
SECTION (SINGLE ROW)



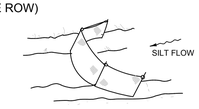
SECTION (DOUBLE ROW)



TYPE III SILT FENCE



TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS.



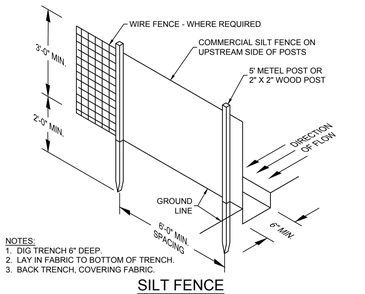
NOTE: SPACING FOR TYPE III FENCE TO BE IN ACCORDANCE WITH CHART 1, SHEET 1 OF 3 AND DITCH INSTALLATIONS AT DRAINAGE STRUCTURES SHEET 2 OF 3.

TYPE III SILT FENCE

DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

NOTE:
1) SILT FENCE SHALL BE USED/PLACED AT THE DIRECTION OF THE ENGINEER AND TO COMPLY WITH THE FDEP/NPDES PERMITTING.

TYPE III SILT FENCE



NOTES:
1. DIG TRENCH 6" DEEP.
2. LAY IN FABRIC TO BOTTOM OF TRENCH.
3. BACK TRENCH, COVERING FABRIC.

SILT FENCE

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203 ABERDEEN PKWY, PANAMA CITY, FL 32405
(850) 522-0644

CONSULTANTS:
FLA FLORIDA ARCHITECTS LICENSE #AA0002730

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CLIENT:
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PROJECT:
GCSC SOFTBALL COMPLEX

NOT APPROVED UNLESS STAMPED WITH PROFESSIONAL ENGINEERS SEAL

JONATHAN SKLARSKI, P.E. 67361
EB 0008794

100%
CONSTRUCTION DOCUMENTS

SCALE:	DATE:
NONE	MAY 2017
DRAWN: S. RAY	CHECKED: J. SKLARSKI

NO.	REVISION:	DATE:

SHEET TITLE:
SWPPP

PROJECT NO.	SHEET
50087410 BID NUMBER - ITB#6-2016/2017	D1

May 20, 2017 (15:50:34 EST)
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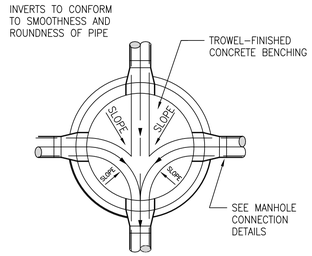
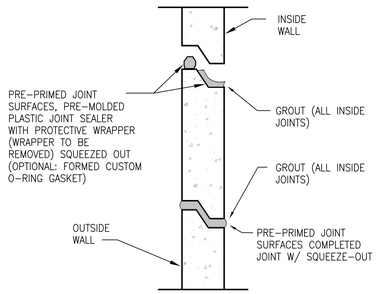
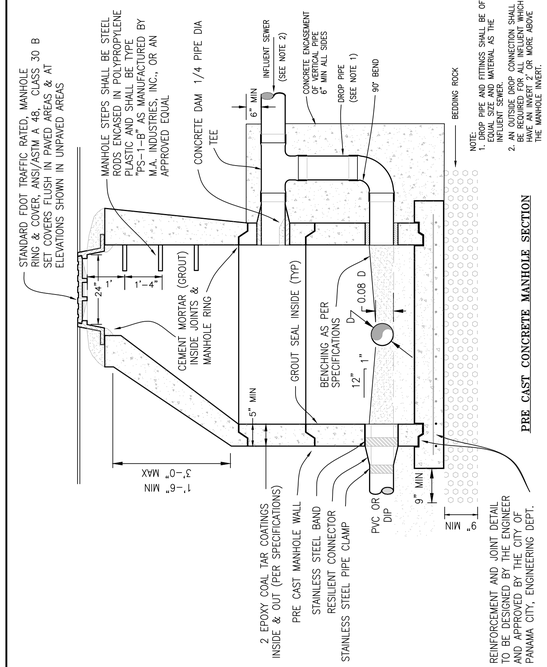


MANHOLE INVERT
TYPICAL PLAN



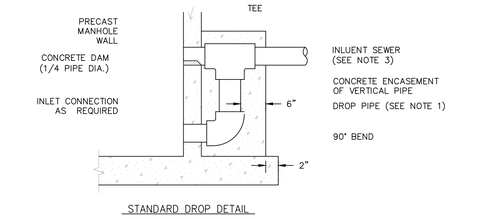
JOINT DETAIL
PRE CAST SECTIONS

CITY OF PANAMA CITY | ENGINEERING DEPARTMENT | PRE-CAST CONCRETE MANHOLE DETAIL | S-1

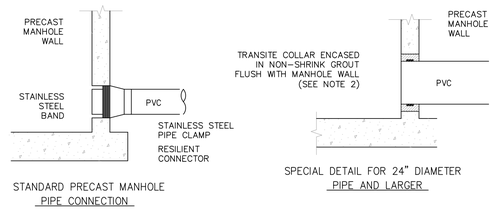


PRE CAST CONCRETE MANHOLE SECTION

CITY OF PANAMA CITY | ENGINEERING DEPARTMENT | PRE-CAST CONCRETE MANHOLE SECTION | S-2

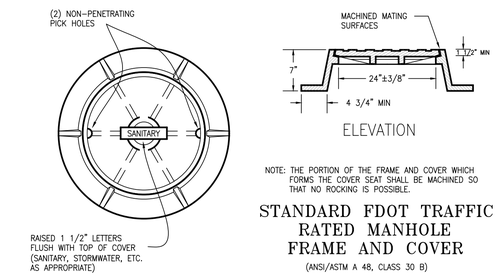


STANDARD DROP DETAIL



NOTES:
1. DROP PIPE AND FITTINGS SHALL BE OF EQUAL SIZE AND MATERIAL AS THE INFLUENT SEWER.
2. THE CITY MAY APPROVE ALTERNATE WATER TIGHT CONNECTION DETAILS FOR CONNECTION OF 24" DIAMETER PIPES AND LARGER.
3. AN OUTSIDE DROP CONNECTION SHALL BE REQUIRED FOR ALL INFLUENT WHICH HAVE AN INVERT 2' OR MORE ABOVE THE MANHOLE INVERT.

CITY OF PANAMA CITY | ENGINEERING DEPARTMENT | MANHOLE CONNECTION DETAILS | S-3

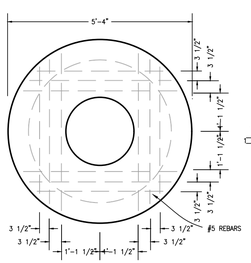


PLAN

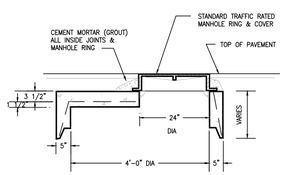
ELEVATION

NOTE: THE PORTION OF THE FRAME AND COVER WHICH FORMS THE COVER SEAT SHALL BE MACHINED SO THAT NO ROCKING IS POSSIBLE.

STANDARD FDOT TRAFFIC RATED MANHOLE FRAME AND COVER
(ANSI/ASTM A 48, CLASS 30 B)

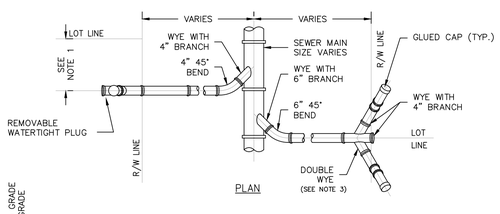


PRE CAST TOP
FOR MANHOLE

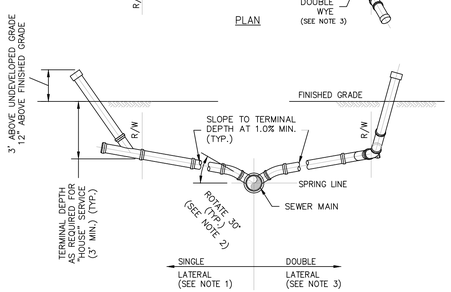


COVER DETAIL FOR
PRE CAST MANHOLE

CITY OF PANAMA CITY | ENGINEERING DEPARTMENT | STANDARD MANHOLE FRAME AND COVER | S-4



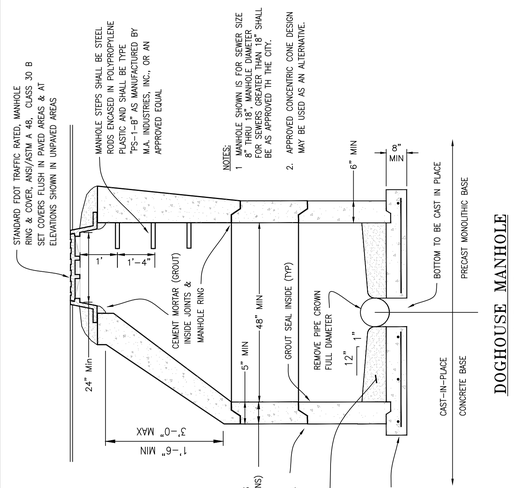
PLAN



PROFILE

NOTES:
1. LOCATE SINGLE LATERAL AS NEAR TO CENTER OF LOT AS POSSIBLE.
2. INVERT OF SERVICE LATERAL SHALL NOT ENTER SEWER MAIN BELOW SPRING LINE.
3. UPON CITY APPROVAL, DOUBLE SERVICE LATERALS SHALL ONLY BE PERMITTED ON TAPS TO OVERSIZED GRAVITY MAINS, LATERALS AND WHERE EXISTING ROAD PAVEMENT MUST BE CUT.

CITY OF PANAMA CITY | ENGINEERING DEPARTMENT | SERVICE LATERAL DETAIL | S-5



DOGHOUSE MANHOLE
SCALE: NONE

CITY OF PANAMA CITY | ENGINEERING DEPARTMENT | DOGHOUSE MANHOLE SECTION | S-18

Dewberry | PREBLE-RISH
203 ABERDEEN PKWY, PANAMA CITY, FL 32405
(850) 522-0644

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CLIENT:
GULF COAST STATE COLLEGE
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gulfcoast.edu

PROJECT:
GCSC SOFTBALL COMPLEX

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JONATHAN SKLARSKI, P.E. 67361
EB 0008794

100%
CONSTRUCTION DOCUMENTS

SCALE:	DATE:
1" = 30'	MAY 2017
DRAWN: S. RAY	CHECKED: J. SKLARSKI

NO.	REVISION:	DATE:

SHEET TITLE:
DETAILS

PROJECT NO.	SHEET
50087410	D2
BID NUMBER - ITB#6-2016/2017	

May 20, 2017 (15:50:34 EST)
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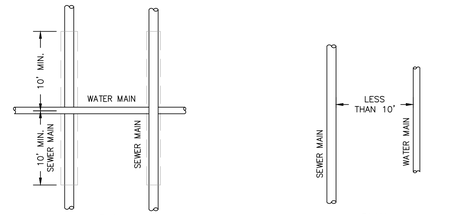
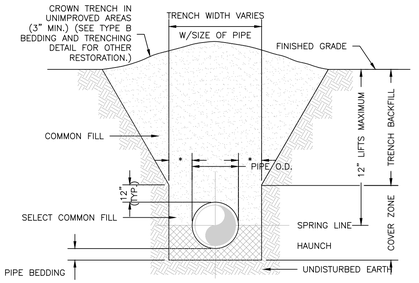
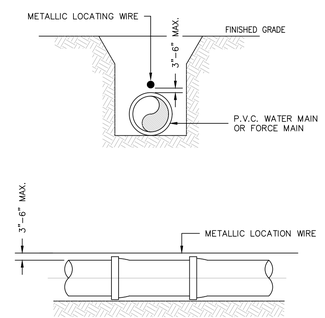


CITY OF PANAMA CITY ENGINEERING DEPARTMENT	WATER & SEWER MAIN CROSSING/SEPERATION DETAIL	S-6



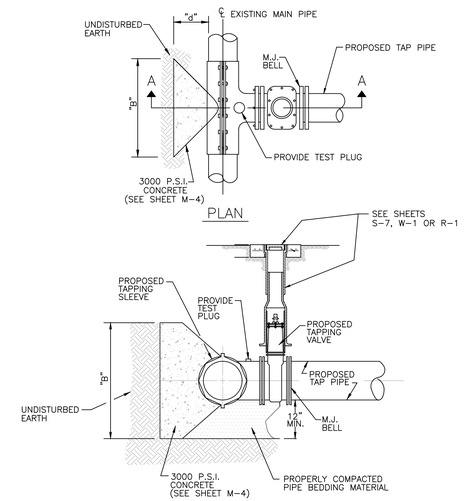
1. Sheeting and bracing in excavated trenches to comply with the manufacturer specifications, and must meet the state "TRENCH SAFETY ACT".
2. All pipe to be installed as per the lines, grades, and slopes called for in the plans, and at a minimum of 36 inches below the top of the finish grade.
3. (*)The width of the trench is to be kept to a maximum of 24 inches wider than the outside diameter of pipe less than 24 inches, or a maximum of 48 inches wider than the outside diameter of pipe greater than 24 inches.
4. If the trench is undercut or unsuitable material is encountered, bedding material (select common fill or bedding rock) is to be utilized and left in a loose condition below the middle third of the outside diameter of the pipe. The remainder of the trench bottom is to be compacted to a minimum of 95% of the maximum density as determined by AASHTO T-180.
5. When bedding material is to be utilized, it is to be installed at a minimum depth of 4 inches below the bottom of the pipe.
6. If the trench is not undercut, excavate for the pipe bells before laying the pipe.
7. The pipes are to be installed so that the bell of the pipe is facing upstream to the direction of flow.
8. Hand tamp the fill material in the haunch area that cannot be reached by mechanical tampers.
9. For concrete pipe, compact the backfill in 6 inch layers (up to a maximum of 12 inches above the top of the pipe) to a density of at least 95% of the maximum density as determined by AASHTO T-180, Method C. For metal and plastic pipe, compact the backfill in 6 inch layers (up to a maximum of 12 inches above the top of the pipe) to a density of at least 95% of the maximum density as determined by AASHTO T-99, Method C.
10. Compact and stabilize the remaining backfill, in 6 inch layers, to a density of at least 98% of the maximum density as determined by AASHTO T-180.
11. Contractor to place a woven or non-woven filter fabric (Type D-3) around the hubbed joint of all concrete pipe to prevent potential soil infiltration.
12. Water will not be permitted in the trench during construction. Dewater as necessary during placement.

CITY OF PANAMA CITY ENGINEERING DEPARTMENT	TRENCH TYPE "A" (BELOW EXISTING GRADE)	M-1



NOTES:
1. PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (10 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE BURIED DIRECTLY ABOVE THE CENTERLINE OF THE PIPE.
2. LOCATING WIRE SHALL TERMINATE AT THE TOP OF EACH VALVE BOX AND BE CAPABLE OF EXTENDING 24" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION.
3. ALL SPLICES SHALL BE MADE USING A WATER-TIGHT SEALING METHOD APPROVED BY THE CITY.

CITY OF PANAMA CITY ENGINEERING DEPARTMENT	PVC PIPE LOCATING WIRE DETAIL	M-7



FOR DIMENSIONS "B" AND "d"
SEE RU-13; THRUST BLOCK DETAILS

NOTES:
1.) NO CUTS SHALL BE MADE BEFORE:
(A) A TEST ON THE SLEEVE OF 180 P.S.I. FOR 60 MINUTES IS MADE.
(B) ALL FITTINGS TO BE WRAPPED WITH 24 MIL VISQUEEN AT THRUST BLOCK
(C) ALL TAPS TO BE MADE BY THE CITY OF PANAMA CITY UTILITIES DEPT., AND MATERIAL TO BE FURNISHED BY THE INFRASTRUCTURE CONTRACTOR.
2.) ALL TAPS MUST BE OF A SMALLER SIZE THAN THE MAIN BEING TAPPED & PLACED NO CLOSER THAN 30" OR A DISTANCE EQUAL TO (1) MAIN PIPE DIAMETER PLUS (2) TAP PIPE DIAMETERS (WHICHEVER IS LARGER) FROM A JOINT OR FITTING.
3.) CONTRACTOR TO SUPPLY A DRY HOLE FOR TAPPING CREW TO WORK AND A BACK-HOE TO LOWER MACHINE INTO HOLE.

CITY OF PANAMA CITY ENGINEERING DEPARTMENT	TAPPING SLEEVE & VALVE BLOCKING DETAIL	M-19

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203 ABERDEEN PKWY, PANAMA CITY, FL 32405
(850) 522-0644

CONSULTANTS:
FLA FLORIDA ARCHITECTS LICENSE #AA0002730

GULF COAST STATE COLLEGE SINCE 1957

CLIENT:
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5230 US-98
PANAMA CITY, FLORIDA 32401
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PROJECT:
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EB 0008794

100%
CONSTRUCTION DOCUMENTS

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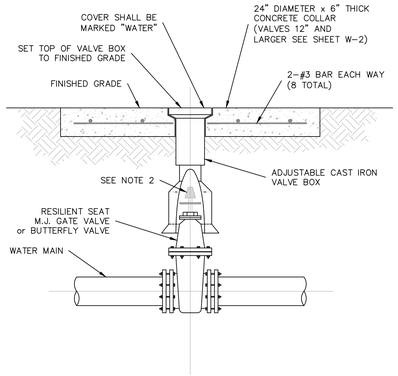
NO.	REVISION:	DATE:

SHEET TITLE:
DETAILS

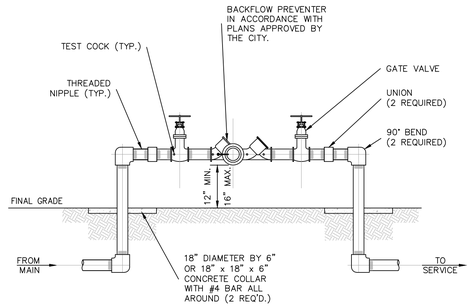
PROJECT NO.	SHEET
50087410	D3
BID NUMBER - ITB#6-2016/2017	

May 20, 2017 (15:50:34 EST)
K:\50087410 GCSC NEW SOFTBALL FIELD_CIVIL\3DFOLDER_PRODUCTION\50087410 COVER_NOTES_DETAILS.DWG



NOTES:
1. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
2. THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO COME UP TO 2 FOOT DEPTH BELOW FINISHED GRADE.
3. VALVES ARE TO BE MJ RESTRAINTS (MEGALUG OR EQUAL)

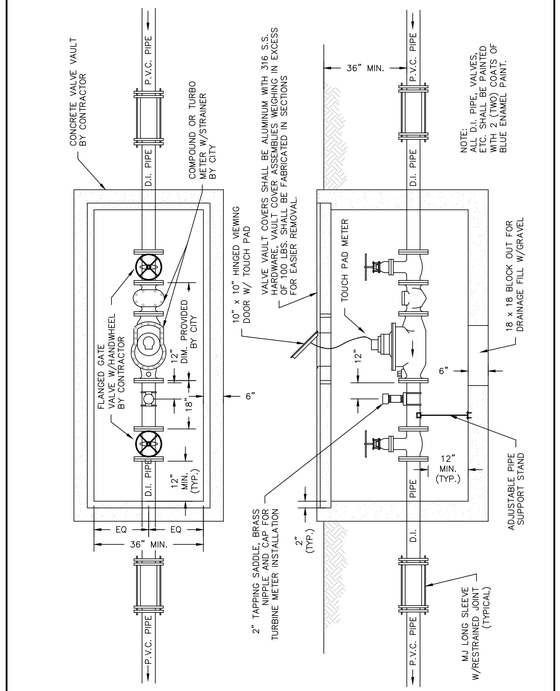
CITY OF PANAMA CITY ENGINEERING DEPARTMENT	POTABLE WATER GATE VALVE & VALVE BOX	W-1



NOTES:
1. ALL PIPE AND FITTINGS 2" AND SMALLER SHALL BE THREADED SCHEDULE 40 GALVANIZED STEEL OR BRASS.
2. PROVIDE PROTECTION AGAINST FREEZING.
3. TWO PIPE SUPPORTS REQUIRED.
4. ALL ITEMS ABOVE GRADE SHALL HAVE TWO COATS OF APPROVED RUST RESISTANT BLUE ENAMEL PAINT.

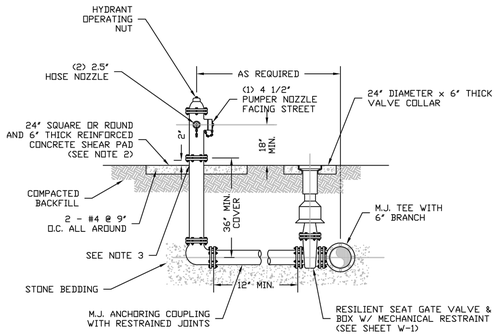
BACKFLOW PREVENTER

CITY OF PANAMA CITY ENGINEERING DEPARTMENT	BACKFLOW PREVENTER	W-9



CITY OF PANAMA CITY ENGINEERING DEPARTMENT	3" WATER METER INSTALLATION DETAIL	W-11

* WATER METER TO BE PROVIDED BY THE CONTRACTOR



NOTES:
1. THE SHEAR PAD MAY BE RECESSED UP TO 6 INCHES BELOW FINISHED GRADE.
2. CLEARANCE BETWEEN BOTTOM OF BOLTS AND TOP OF SHEAR PAD SHALL BE 2" MINIMUM.

HYDRANTS SHALL:
1. BE ABLE TO DELIVER 600 GPM WITH A FRICTION LOSS OF NOT MORE THAN 5 PSI IN THE HYDRANT AND A TOTAL LOSS OF NOT MORE THAN 5 PSI BETWEEN STREET MAIN AND OUTLET.
2. HAVE AT LEAST TWO 2 1/2" OUTLETS AND ONE 4 1/2" OUTLET, WITH NATIONAL STANDARD TYPE THREADS.
3. BE OF SUCH A DESIGN THAT WHEN THE BARREL IS BROKEN OFF THE HYDRANT WILL REMAIN CLOSED.
4. HAVE CONNECTION TO THE STREET MAIN OF NOT LESS THAN 6 INCHES IN DIA.
5. HAVE ALL FITTINGS WITH MEG-A-LUG GLANDS.
6. HAVE ALL D.I.P. PIPING.
7. HAVE A GATE VALVE BETWEEN HYDRANT AND THE STREET MAIN.
8. HAVE A 5 1/4" MAIN VALVE SEAT.
9. APPROVED MODELS ARE AMERICAN DARLING B84B, MUELLER CENTURION, AVK 2780, M&H 129 OR CLOW MEDALLION. NO SUBSTITUTIONS ARE ALLOWED.

CITY OF PANAMA CITY ENGINEERING DEPARTMENT	FIRE HYDRANT ASSEMBLY DETAIL	W-16

Dewberry | PREBLE-RISH
203 ABERDEEN PKWY, PANAMA CITY, FL 32405
(850) 522-0644

CONSULTANTS:
FLA FLORIDA ARCHITECTS LICENSE #AA0002730

CLIENT:
GULF COAST STATE COLLEGE
5230 US-98
PANAMA CITY, FLORIDA 32401
850.769.1551
gulfcoast.edu

PROJECT:
GCSC SOFTBALL COMPLEX

NOT APPROVED UNLESS STAMPED WITH PROFESSIONAL ENGINEERS SEAL

JONATHAN SKLARSKI, P.E. 67361
EB 0008794

100%
CONSTRUCTION DOCUMENTS

SCALE: 1" = 30'	DATE: MAY 2017
DRAWN: S. RAY	CHECKED: J. SKLARSKI

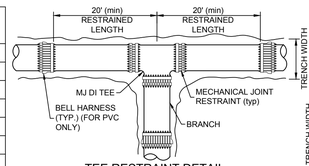
NO.	REVISION:	DATE:

SHEET TITLE:
DETAILS

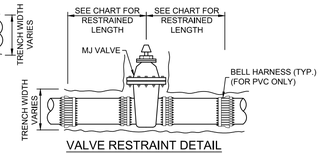
PROJECT NO. 50087410 BID NUMBER - ITB#6-2016/2017	SHEET D4

May 20, 2017 (15:50:34 EST)
K:\50087410 GCSC NEW SOFTBALL FIELD_CIVIL3D\FOLDER_PRODUCTION\50087410 COVER_NOTES_DETAILS.DWG

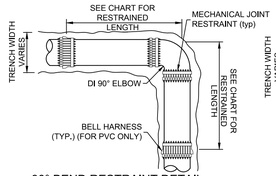
MAIN PIPE SIZE	HORIZ. BENDS			TEES						REDUCERS				PLUGS
				SIZE						SIZE				
	90°	45°	22.5°	LENGTH						LENGTH				
48	128	53	26	X48 219	X42 162	X36 106	X30 48	X24 1		X42 75	X36 138	X30 194		321
42	117	49	24	X42 191	X36 134	X30 74	X24 13	X20 1		X36 75	X30 140	X24 192		289
36	106	44	21	X36 163	X30 102	X24 39	X20 1	X16 1		X30 78	X24 141	X20 175		257
30	93	39	19	X30 132	X24 68	X20 22	X16 1	X12 1		X24 78	X20 121	X16 156		222
24	79	33	16	X24 99	X20 53	X16 3	X12 1	X10 1		X20 56	X16 101	X12 137		185
20	68	29	14	X20 75	X16 26	X12 1	X10 1	X8 1		X16 56	X12 100	X10 117		159
16	57	24	12	X16 51	X12 1	X10 1	X8 1			X12 56	X10 78	X8 96		131
12	45	19	9	X12 35	X10 1	X8 1	X6 1			X10 30	X8 54	X6 74		102
10	39	16	8	X10 11	X8 1	X6 1				X8 29	X6 53	X4 71		87
8	33	14	7	X8 1	X6 1	X4 1				X6 51	X4 52			72
6	25	11	5	X6 1	X4 1					X4 29				55
4	18	8	4	X4 1										39



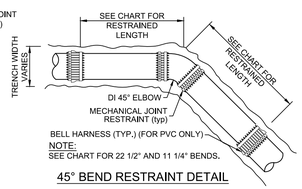
TEE RESTRAINT DETAIL



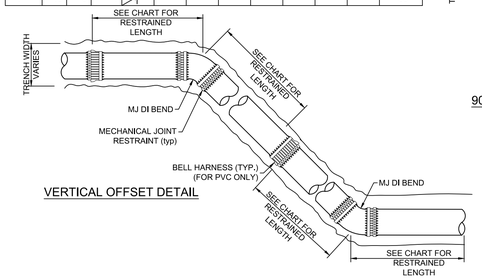
VALVE RESTRAINT DETAIL



90° BEND RESTRAINT DETAIL



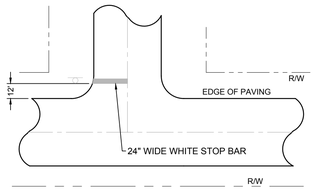
45° BEND RESTRAINT DETAIL



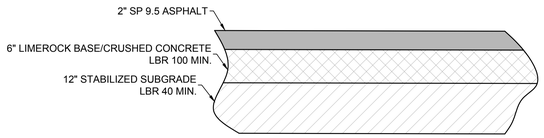
VERTICAL OFFSET DETAIL

NOTES:
1. RESTRAIN TO NEXT FULL JOINT BEYOND GIVEN LENGTH.
2. RESTRAIN 11.25° BENDS 50% OF LENGTH FOR 22.5° BENDS.
3. ALL VALVES AND FITTINGS SHALL BE RESTRAINED TO THE CONNECTING SECTIONS OF PIPE.
4. ALL VALVES MUST BE PROPERLY ANCHORED OR RESTRAINED TO RESIST A 150 PSI TEST PRESSURE IN EITHER DIRECTION.
5. PIPE SIZES ARE GIVEN IN INCHES.
6. PIPE LENGTHS ARE GIVEN IN FEET.
7. LENGTHS SHOWN ARE FOR A TEST PRESSURE OF 150 PSI.
8. RESTRAIN LENGTHS ARE TO BE USED FOR WATER.
9. THE RESTRAINED LENGTHS SHOWN IN THESE TABLES ARE BASED ON THE USE OF LIGHTLY COMPACTED CLEAN SAND WITH AT LEAST A 95% COARSE PARTICLE CONTENT. ACTUAL SOIL CONDITIONS MUST BE DETERMINED BY THE ENGINEER OF RECORD AND THE RESTRAINED LENGTHS MODIFIED ACCORDINGLY. SAFETY FACTOR OF 1.5:1 TO BE CALCULATED WITH A "SM" SOIL TYPE AND TRENCH TYPE "3".

DETAIL THRUST RESTRAINTS
SCALE: N.T.S.



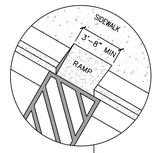
DETAIL STOP BAR
SCALE: N.T.S.

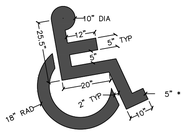


DETAIL ASPHALT SECTION
SCALE: N.T.S.

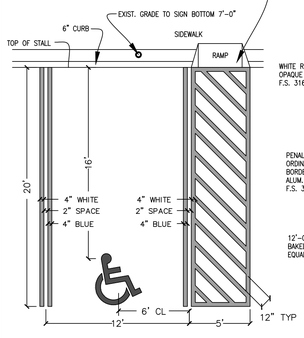
* COLOR CONTRAST CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND – EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

EACH PARKING SPACE SHALL BE CONSPICUOUSLY OUTLINED IN BLUE PAINT, AND SHALL BE POSTED AND MAINTAINED WITH A PERMANENT, ABOVE–GRADE SIGN BEARING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY OR THE CAPTION "PARKING BY DISABLED PERMIT ONLY," OR BEARING BOTH SUCH SYMBOL AND CAPTION. SUCH SIGNS SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE. ALL HANDICAPPED PARKING SPACES MUST BE SIGNED AND MARKED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY THE DEPARTMENT OF TRANSPORTATION.



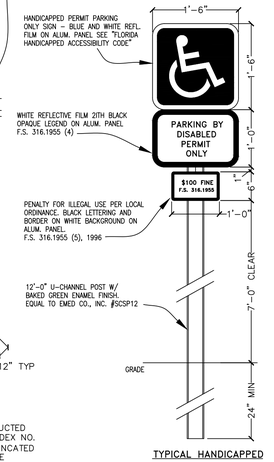


HANDICAP STRIPING DETAIL



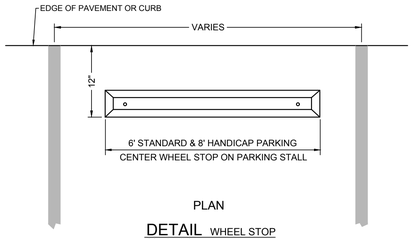
HANDICAP PARKING DETAIL

NOTE:
PUBLIC SIDEWALK CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FDOT DESIGN STANDARDS INDEX NO. 304 EXCEPT THAT THE DETECTABLE WARNING (TRUNCATED DOME) COLOR SHALL BE BLUE AND THEY SHALL BE EMBEDDED OR MECHANICALLY FASTENED.



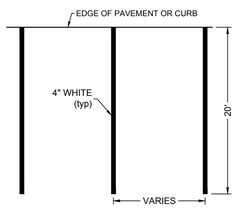
TYPICAL HANDICAPPED PARKING SIGN

CITY OF PANAMA CITY ENGINEERING DEPARTMENT	TYPICAL HANDICAP SPACE & DETAIL	M–21

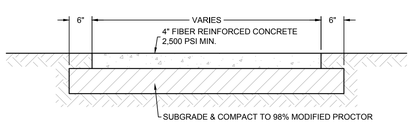


PLAN

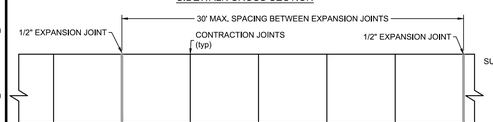
DETAIL WHEEL STOP
SCALE: N.T.S.



DETAIL PARKING SPACE STRIPING
SCALE: N.T.S.

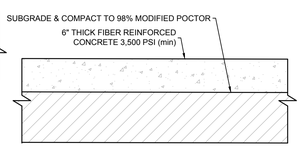


SIDEWALK CROSS SECTION

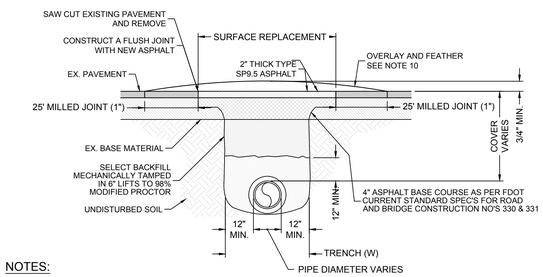


NOTE:
1.) FOR WALKS 8' AND NARROWER, SPACE TRANSVERSE CONTRACTION JOINTS AT INTERVAL EQUAL TO WIDTH OF WALK OR AS NOTED.
2.) CONTRACTION JOINTS TO BE 1" DEEP SCORED, SAW-CUT, OR FORMED WITH INSERT AT CONTRACTORS OPTION UNLESS NOTED OTHERWISE. SCORED JOINTS TO USE AN APPROVED TOOL. INSERTS TO BE GREENSTREAK ZIPCAP #855 OR EQUAL. SCORED JOINTS TO BE EDGED WITH 1/8" RADIUS.
3.) EXPANSION JOINT REQUIRED WHERE SHOWN. EXPANSION JOINT TO CONSIST OF 1/2" FIBER BOARD AND GREENSTREAK CAP SEAL #624 OR EQUAL.
4.) ALL SIDEWALKS SHALL HAVE A MINIMUM 2% CROSS SLOPE.

DETAIL CONCRETE SIDEWALK
SCALE: N.T.S.

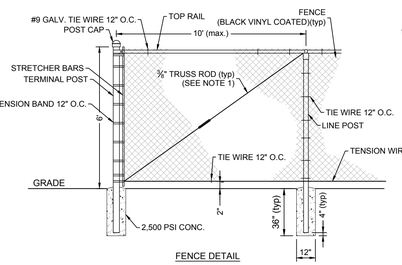


SECTION HEAVY DUTY CONCRETE SIDEWALK
SCALE: N.T.S.

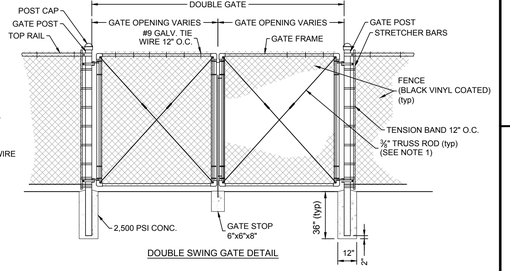


NOTES:
1. W (MAXIMUM TRENCH WIDTH) = PIPE O.D + 30" FOR LESS THAN 24" Ø
   W (MAXIMUM TRENCH WIDTH) = PIPE O.D + 48" FOR LESS THAN 24" Ø OR GREATER.
2. TRENCH BOXES REQUIRED FOR ALL PIPE AND STRUCTURE INSTALLATIONS FOR STABILITY (IN ACCORDANCE TO OSHA).
3. LOWEST ZONE - REMOVE SOIL UNSUITABLE FOR BACKFILL TO A DEPTH OF 4" MINIMUM (12" MINIMUM IN ROCK) BELOW BOTTOM OF PIPE. REMOVE MUSK OR OTHER MATERIAL TO A DEPTH NECESSARY TO ESTABLISH A FIRM FOUNDATION. BACKFILL UNDER BEDDING ZONE WITH COARSE SAND OR OTHER SUITABLE GRANULAR MATERIAL. COMPACT TO MATCH DENSITY OF SOIL IN WHICH THE TRENCH WAS CUT.
4. BEDDING ZONE - USE A-1, A-2, OR A-3 MATERIAL (A-4 MAY BE USED WITH R.C.P.). COMPACT TO 100% OF MAXIMUM DENSITIES DETERMINED BY AASHTO T-99, METHOD C, IN LIFTS NOT TO EXCEED 6 INCHES. WHEN PLACING PIPE, LOOSEN SOIL OR BEDDING MATERIAL IMMEDIATELY BELOW THE MIDDLE THIRD OF THE O.D. OF PIPE, THEN HAND TAMP MATERIAL BELOW HAUNCH THAT CANNOT BE REACHED BY MECHANICAL TAMPING.
5. COVER ZONE - USE A-1, A-2, OR A-3, MATERIAL (A-4 MAY BE USED WITH R.C.P). COMPACT TO 100% OF MAXIMUM DENSITY OF R.C.P. OR 95% OF MAXIMUM DENSITY FOR METAL OR PLASTIC PIPE AS DETERMINED BY AASHTO T-99 METHOD C, IN LIFTS NOT TO EXCEED 6 INCHES.
6. TOP ZONE - USE A-1, A-2, AND A-4 MATERIAL PER F.D.O.T. INDEX 505. COMPACT TO 100% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99, METHOD C, IN IN LIFTS NOT TO EXCEED 12 INCHES OR GREATER.
7. ONLY UNPRESSURIZED AND SOIL TIGHT PIPE OR WATERTIGHT SANITARY SEWER PIPE ALLOWED UNDER PAVEMENT.
8. COMPACTION REQUIRED FROM F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTIONS 125.
9. PATCH OVERLAY TO BE FEATHERED TO ORIGINAL PAVEMENT AT A SLOPE OF 1" VERTICAL: 25 FEET HORIZONTAL UNLESS OTHERWISE APPROVED BY COUNTY ENGINEERS.
10. OVERLAY 1 INCH OVER 25 FEET EACH DIRECTION OF CUT TO COVER ALL TRAVEL LANES UNLESS SEPARATED BY MEDIAN OR CURB. CONTRACTOR SHALL PLACE OVERLAY NO SOONER THAN 30 DAYS AFTER INSTALLATION OF CROSS DRAIN.
11. FLOWABLE FILL MIX DESIGN TO BE IN ACCORDANCE WITH F.D.O.T. SPECIFICATIONS SECTION 121 FOR EXCAVATABLE FILL. MAX DESIGN MUST BE APPROVED BY THE COUNTY ENGINEERS
12. CONTRACTOR SHALL MILL A 1" BUTT JOINT FOR 25 FEET AT THE END OF ASPHALT OVERLAY LIMITS AS SHOWN IN THE PLANS.

DETAIL REMOVAL AND REPLACEMENT OF ASPHALT PAVING AT ROADWAY CROSSINGS
SCALE: N.T.S.



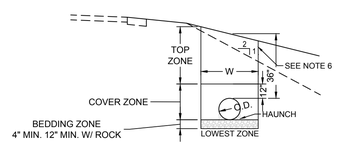
FENCE DETAIL



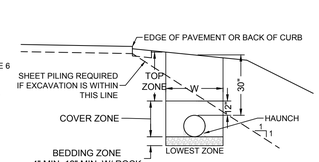
DOUBLE SWING GATE DETAIL

NOTES:
1. TRUSS BARS ARE REQUIRED FOR EACH GATE SECTION AND THE FIRST SPAN ON EACH SIDE OF A CORNER POST ONLY.
2. ALL FENCING SHALL BE BLACK VINYL COATED..
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION

DETAIL 6' CHAINLINK FENCE
SCALE: N.T.S.



OUTSIDE ROADWAY SHOULDER AREA, UNIMPROVED AREAS, OR AREAS OF NO VEHICULAR TRAFFIC



INSIDE ROADWAY SHOULDER AREA

NOTES:
1. W (MAXIMUM TRENCH WIDTH) = PIPE O.D. + 30" FOR LESS THAN 24"Ø.
   W (MAXIMUM TRENCH WIDTH) = PIPE O.D. + 48" FOR 24"Ø OR GREATER.
   DEEP TRENCHES MAY REQUIRE SLOPING SIDES OR TRENCH BOXES FOR STABILITY.
2. LOWEST ZONE - REMOVE SOIL UNSUITABLE FOR BACKFILL TO A DEPTH OF 4" MINIMUM (12" MINIMUM IN ROCK) BELOW BOTTOM OF PIPE. REMOVE MUCK OR OTHER MATERIAL TO A DEPTH NECESSARY TO ESTABLISH A FIRM FOUNDATION. BACKFILL UNDER BEDDING ZONE WITH COARSE SAND OR OTHER SUITABLE GRANULAR MATERIAL. COMPACT TO MATCH DENSITY OF SOIL IN WHICH THE TRENCH WAS CUT.
3. BEDDING ZONE - USE A-1, A-2 OR A-3 MATERIAL (A-4 MAY BE USED WITH R.C.P.). COMPACT TO 100% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99, METHOD C, IN LIFTS NOT TO EXCEED 6 INCHES. WHEN PLACING PIPE, LOOSEN SOIL OR BEDDING MATERIAL IMMEDIATELY BELOW THE MIDDLE THIRD OF THE O.D. OF PIPE, THEN HAND TAMP MATERIAL BELOW HAUNCH THAT CANNOT BE REACHED BY MECHANICAL TAMPING.
4. COVER ZONE - USE A-1, A-2 OR A-3 MATERIAL (A-4 MAY BE USED WITH R.C.P.). COMPACT TO 100% OF MAXIMUM DENSITY FOR R.C.P. OR 95% OF MAXIMUM DENSITY FOR METAL OR PLASTIC PIPE AS DETERMINED BY AASHTO T-99, METHOD C, IN LIFTS NOT TO EXCEED 6 INCHES.
5. TOP ZONE - USE MATERIALS PER F.D.O.T. INDEX 505. COMPACT TO 100% DETERMINED BY AASHTO T-99, METHOD C, IN LIFTS NOT TO EXCEED 12 INCHES OR GREATER.
6. IN AREAS OUTSIDE THE PLANE DESCRIBED BY A 1 IN 2 SLOPE DOWNWARD FROM THE EDGE OF SHOULDER OR BACK OF CURB, COMPACT TO FIRMNESS APPROXIMATELY EQUAL TO THAT OF SOIL NEXT TO PIPE TRENCH.
7. COMPACTION REQUIREMENTS FROM F.DO.T. SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 125.

DETAIL TRENCHING ALONG ROADWAY
SCALE: N.T.S.

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(850) 522-0644

CONSULTANTS:
FLA FLORIDA ARCHITECTS LICENSE #AA0002730

GULF COAST STATE COLLEGE SINCE 1957

CLIENT:
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PANAMA CITY, FLORIDA 32401
850.769.1551
gulfcoast.edu

PROJECT:
GCSC SOFTBALL COMPLEX

NOT APPROVED UNLESS STAMPED WITH PROFESSIONAL ENGINEERS SEAL

JONATHAN SKLARSKI, P.E. 67361
EB 0008794

100%
CONSTRUCTION DOCUMENTS

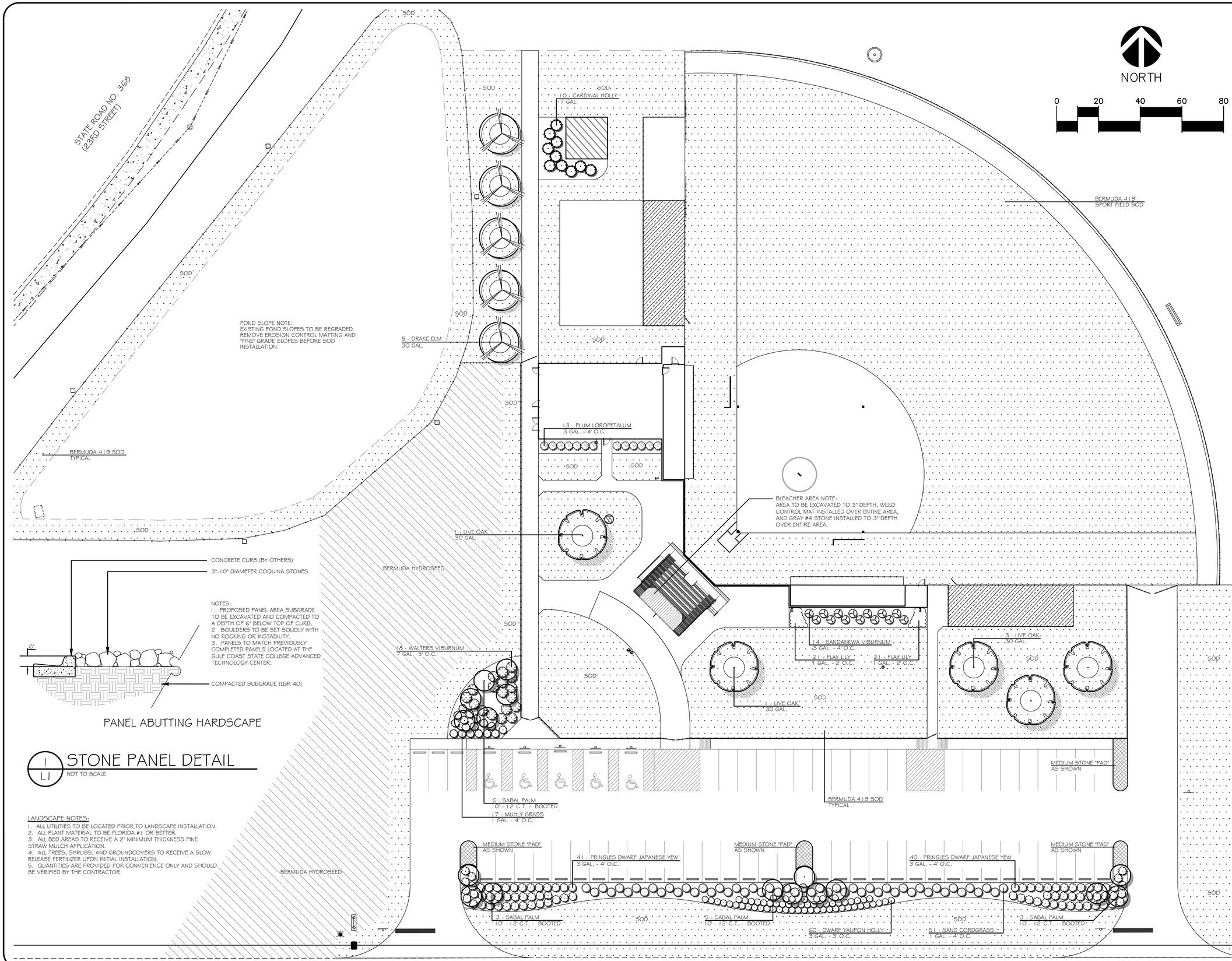
SCALE: 1" = 30'	DATE: MAY 2017
DRAWN: S. RAY	CHECKED: J. SKLARSKI

NO.	REVISION:	DATE:

SHEET TITLE:
DETAILS

PROJECT NO. 50087410 BID NUMBER - ITB#6-2016/2017	SHEET D5

May 20, 2017 (15:50:34 EST)
K:\50087410 GCSC NEW SOFTBALL FIELD_CIVIL\3DFOLDER_PRODUCTION\50087410 COVER_NOTES_DETAILS.DWG



LANDSCAPE NOTES:

1. ALL UTILITIES TO BE LOCATED PRIOR TO LANDSCAPE INSTALLATION.
2. ALL PLANT MATERIAL TO BE FLORIDA #1 OR BETTER.
3. ALL BED AREAS TO RECEIVE A 2" MINIMUM THICKNESS PINE STRAW MULCH APPLICATION.
4. ALL TREES, SHRUBS, AND GROUNDCOVERS TO RECEIVE A SLOW RELEASE FERTILIZER UPON INITIAL INSTALLATION.
5. QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY AND SHOULD BE VERIFIED BY THE CONTRACTOR.

Dewberry | PREBLE-RISH
203 ABERDEEN PKWY, PANAMA CITY, FL 32405
(850) 522-0644

CONSULTANTS:

FLA FLORIDA ARCHITECTS LICENSE #AA0002730

LAWNSCAPES, INC.
LANDSCAPE DESIGN • CONSTRUCTION • MANAGEMENT • NURSERY
P.O. Box 1726 • Panama City, FL 32404
850-763-2975
www.Lawnscapesflc.com

CLIENT:

GULF COAST STATE COLLEGE

5230 US-98
PANAMA CITY, FLORIDA 32401
850.769.1551
gulfcoast.edu

PROJECT:

GCSC SOFTBALL COMPLEX

NOT APPROVED UNLESS STAMPED WITH PROFESSIONAL ENGINEER'S SEAL

Registered LANDSCAPE ARCHITECT SEAN P. DALY STATE OF FLORIDA
05/04/17

FLORIDA LANDSCAPE ARCHITECT #6666928
SEAN P. DALY

100% CONSTRUCTION SET

SCALE:	DATE:
1" = 20'	MAY 4, 2017
DRAWN:	CHECKED:

NO.	REVISION:	DATE:

SHEET TITLE:

LANDSCAPE PLAN

PROJECT NO.	SHEET
50087410	L1

STATE ROAD NO. 368
(23RD STREET)

MAINLINE NOTE:
EXTEND MAINLINE TO INDICATED ISOLATION VALVE LOCATION. INCLUDE EIGHT (8) UNUSED HOT WIRES AND A COMMON WIRE FROM CONTROLLER TO THIS LOCATION. ISOLATION VALVE AND WIRE RUN END TO BE INSTALLED IN JUMBO RECTANGULAR VALVE BOX.

CONTROLLER NOTES:
MOUNT CONTROLLER IN MECHANICAL ROOM OF LOCKER ROOM.
CONTROLLER TO BE PROVIDED BY OWNER.

QUICK COUPLER NOTE:
EXACT LOCATION OF QUICK COUPLER VALVES AT OWNER'S DISCRETION.

PRESSURE TANK LOCATION
INSTALL ON 4" CONCRETE SLAB

2" SLEEVES FOR PRESSURE TANK PIPING

MAINLINE NOTE:
EXTEND MAINLINE TO INDICATED ISOLATION VALVE LOCATION. INCLUDE EIGHT (8) UNUSED HOT WIRES AND A COMMON WIRE FROM CONTROLLER TO THIS LOCATION. ISOLATION VALVE AND WIRE RUN END TO BE INSTALLED IN JUMBO RECTANGULAR VALVE BOX.

POINT OF CONNECTION
INSTALL NEW 4" SUBMERSIBLE PUMP AND DEEP WELL.
PUMP TO OPERATE ON PRESSURE TANK SYSTEM.
INSTALL PRESSURE TANK UNDER BLEACHERS.

NOTE:
PIPE ROUTING IS SHOWN THROUGH HARDSCAPE AREAS AND BEYOND PROPERTY BOUNDARIES FOR CLARITY ONLY. ROUTE ALL PIPING THROUGH INDICATED SLEEVING AND WITHIN THE PROPERTY LIMITS.

NORTH

0 20 40 60 80

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PROJECT:

GCSC SOFTBALL COMPLEX

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STATE OF FLORIDA — SEAN P. DALY — 6666928 — REGISTERED LANDSCAPE ARCHITECT
05/04/17

FLORIDA LANDSCAPE ARCHITECT #6666928
SEAN P. DALY

100% CONSTRUCTION SET

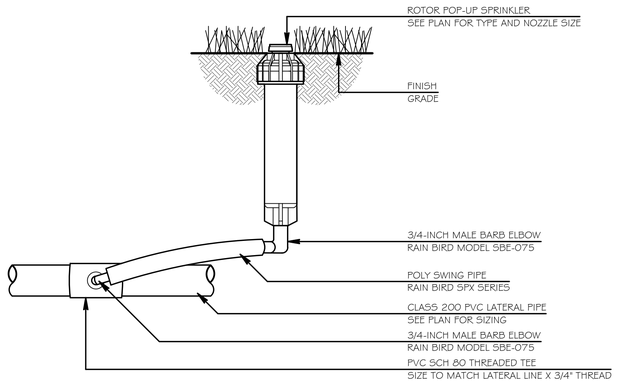
SCALE:	DATE:
1" = 20'	MAY 4, 2017
DRAWN:	CHECKED:

NO.	REVISION:	DATE:

SHEET TITLE:

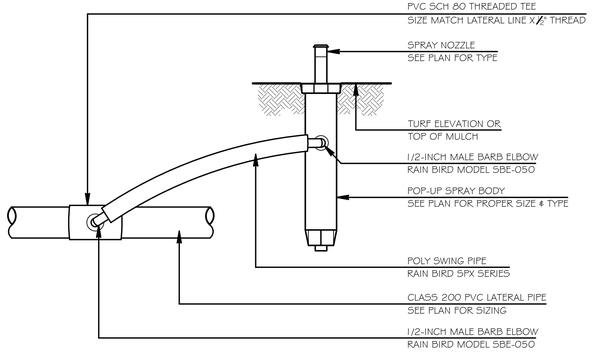
IRRIGATION PLAN

PROJECT NO.	SHEET
50087410	L2



1 / L3 POP-UP ROTOR INSTALLATION

NOT TO SCALE



2 / L3 SPRAYHEAD INSTALLATION

NOT TO SCALE

GENERAL IRRIGATION NOTES:

1. ALL UTILITIES TO BE LOCATED BEFORE COMMENCEMENT OF CONSTRUCTION. APPLY NECESSARY PROTECTIVE MEASURES TO REDUCE POSSIBILITY OF DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION.
2. ALL CONTROL WIRE TO BE 14 GAUGE INSTALL ONE (1) RED WIRE TO EACH CONTROL VALVE, ONE (1) COMMON WHITE TO LOOP CONTINUOUSLY THROUGHOUT THE WIRE PATH, AND ONE (1) EXTRA BLUE WIRE TO RUN PARALLEL WITH COMMON.
3. ALL LATERAL LINES TO MAINTAIN A 8" MINIMUM DEPTH. ALL MAINLINE TO MAINTAIN A MINIMUM 12" DEPTH.
4. ALL SPRAYS AND ROTORS TO BE MOUNTED FLUSH WITH FINAL GRADE.
5. ALL WATERING ARCS TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO ADJACENT BUILDINGS OR HARDSCAPE.

SYSTEM DESIGN NOTES:

WATER SOURCE: NEW IRRIGATION WELL
DESIGN VOLUME: 90 GPM
DESIGN PRESSURE: 65 PSI

PIPING LEGEND

- 3" - CLASS 200 MAINLINE
- CLASS 200 LATERAL (SIZE AS NOTED)
- 6" SCH. 40 SLEEVE
- ZONE # / SIZE — CONTROL VALVE IDENTIFICATION TAG

IRRIGATION SCHEDULE

QUANTITY	SYMBOL	SIZE / DESC.	DESCRIPTION	MANUFACTURER
6		10	1804-10Q	RAINBIRD
4		10-12	1812-10Q	RAINBIRD
25		10	1804-10H	RAINBIRD
3		10-12	1812-10H	RAINBIRD
3		10	1804-10F	RAINBIRD
1		10V	1804-10VAN	RAINBIRD
59		12	1804-12H	RAINBIRD
3		15	1804-15Q	RAINBIRD
13		15	1804-15H	RAINBIRD
1		15	1804-15TQ	RAINBIRD
3		MPRC	MPRC5515 ON 1812 BODY	HUNTER/RAINBIRD
3		MPLC	MPLC5515 ON 1812 BODY	HUNTER/RAINBIRD
24		1.5	5004-PC W/ 1.5 NOZZLE	RAINBIRD
4		1.5-12	5012-PC W/ 1.5 NOZZLE	RAINBIRD
77		3.0	5004-PC W/ 3.0 NOZZLE	RAINBIRD
13		3.0-12	5012-PC W/ 3.0 NOZZLE	RAINBIRD
24		6.0	5004-PC W/ 6.0 NOZZLE	RAINBIRD
12		3.0LA	5004-PC W/ 3.0LA NOZZLE	RAINBIRD
4		#4	F4-PC FALCON 6504 ONE 1" PVC SWING JOINT	RAINBIRD
14		#8	F4-PC FALCON 6504 ONE 1" PVC SWING JOINT	RAINBIRD
5		#16	F4-FC FALCON 6504 ONE 1" PVC SWING JOINT	RAINBIRD
1		1-1/2"	1-1/2" CONTROL VALVE 150-PGA	RAINBIRD
12		2"	2" CONTROL VALVE 200-PGA	RAINBIRD
1	A	-	CONTROLLER PROVIDED BY OWNER	-
1		-	RAIN SENSOR MINI-CLIK	HUNTER
2	IV	-	3" BRASS ISOLATION VALVE	MATCO NORCO
2	QC	-	5-RC QUICK COUPLER (PROVIDE TWO (2) 44-K VALVE KEYS)	RAINBIRD

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PROJECT:

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FLORIDA LANDSCAPE ARCHITECT #6666928
SEAN P. DALY

100% CONSTRUCTION SET

SCALE:	DATE:
1" = 20'	MAY 4, 2017
DRAWN:	CHECKED:

NO.	REVISION:	DATE:

SHEET TITLE:

IRRIGATION PLAN

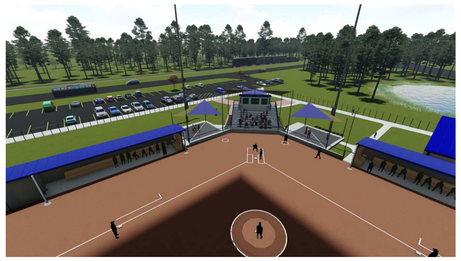
PROJECT NO.	SHEET
50087410	L3

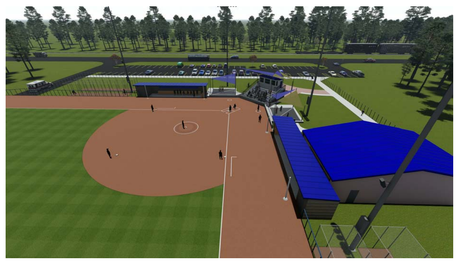
GCSC SOFTBALL COMPLEX

5230 US-98 PANAMA CITY, FLORIDA 32401

CONSTRUCTION DOCUMENTS

3D VIEWS





VINICITY MAP

DESIGN CODES

FLORIDA BUILDING CODE (FBC)	2014 ED
FBC - PLUMBING CODE	2014 ED
FBC - ENERGY CONSERVATION CODE	2014 ED
FBC - ACCESSIBILITY CODE	2014 ED
NEC - NATIONAL ELECTRIC CODE	2014 ED
FLORIDA FIRE PREVENTION CODE	2014 ED
LIFE SAFETY CODE (NFPA 101)	2015 ED
AMERICANS WITH DISABILITIES ACT	2014 ED

TO THE BEST OF OUR KNOWLEDGE, THESE CONSTRUCTION DOCUMENTS ARE IN COMPLIANCE WITH CRITERIA SET FORTH IN THE 2014 FLORIDA BUILDING CODE.

CODE REVIEW ANALYSIS

PROJECT SUMMARY

DEVELOPMENT AND CONSTRUCTION OF A NEW SOFTBALL COMPLEX, LOCKER ROOM, DUGOUTS, PRESS BOX, BLEACHERS, MAINTENANCE BUILDINGS, AND OTHER IMPROVEMENTS.

CLASSIFICATION OF WORK

NEW CONSTRUCTION

OCCUPANCY CLASSIFICATION

ASSEMBLY GROUP A-5

INDEX OF DRAWINGS:

CIVIL

SHEET	DRAWING SCHEDULE NAME
C1	GENERAL NOTES
C2	EXISTING CONDITIONS
C3	EROISON CONTROL PLAN
C4	SITE GEOMETRY
C5	GRADING & DRAINAGE PLAN
C6	FIELD GRADING & DETAIL PLAN
C7	FIELD DETAIL PLAN
C8	UTILITY PLAN
D1	SWPPP
D2-D5	DETAILS

LANDSCAPE

SHEET	DRAWING SCHEDULE NAME
L-1	LANDSCAPE PLAN
L-2	IRRIGATION PLAN
L-3	IRRIGATION PLAN

ARCHITECTURAL

SHEET	DRAWING SCHEDULE NAME
A0.00	COVER SHEET / DRAWINGS INDEX / VICINITY MAP/ LEGENDS

DRAWING SCHEDULE SHEET	NAME
A1.00	SITE PLAN
A1.01	SUNSCREEN LAYOUT
A1.02	HOME SIDE LOCKER ROOM FACILITY LIFE SAFETY PLAN
A1.03	HOME AND VISITOR DUGOUT FLOOR PLAN
A1.04	HOME SIDE LOCKER RM. AND DUGOUT PLAN
A1.05	PRESS BOX FLOOR PLAN
A1.06	ROOF PLAN
A1.11	REFLECTED CEILING PLAN
A2.00	HOME SIDE LOCKER ROOM FACILITY ELEVATIONS
A2.01	HOME DUGOUT ELEVATIONS
A2.02	VISITOR DUGOUT ELEVATIONS
A2.03	PRESS BOX ELEVATIONS
A3.00	SECTIONS AND DETAILS
A3.01	SECTIONS AND DETAILS
A4.00	FINISH SCHEDULE
A7.31	RESTROOMS INTERIOR ELEV.
A8.10	WALL TYPES/DETAILS

STRUCTURAL

SHEET	DRAWING SCHEDULE NAME
S-001	STRUCTURAL NOTES
S-101	HOME SIDE FOUNDATION PLAN
S-102	BLEACHER FOUNDATION PLAN
S-103	VISITOR FOUNDATION AND SLAB PLAN
S-104	HOME SIDE SLAB PLAN
S-105	BLEACHER SLAB PLAN
S-106	SCOREBOARD FOUNDATION
S-301	BUILDING SECTIONS
S-302	BUILDING SECTIONS
S-501	DETAILS

MECHANICAL

SHEET	DRAWING SCHEDULE NAME
M.1	HVAC LEGEND AND NOTES
M.2	HVAC SCHEDULES AND NOTES
M.3	IRRIGATION PLAN
M.4	HVAC FLOOR PLAN - NEW WORK
M.5	HVAC DETAILS

PLUMBING

SHEET	DRAWING SCHEDULE NAME
P.1	PLUMBING LEGEND AND NOTES
P.2	PLUMBING DETAILS
P.3	PLUMBING - SITE PLAN
P.4	PLUMBING - LOCKER ROOM FACILITY
P.5	PLUMBING - VISITOR DUGOUT & RISERS

ELECTRICAL

SHEET	DRAWING SCHEDULE NAME
E.1	ELECTRICAL SITE PLAN
E.2	ELECTRICAL LEGEND
E.3	LIGHTING FIXTURE SCHEDULE
E.4	ELECTRICAL PRESS BOX
E.5	ELECTRICAL HOME LOCKER FACILIT
E.6	ELECTRICAL HOME LOCKER FACILITY
E.7	ELECTRICAL VISITOR DUGOUT & STORAGE BULDING
E.8	ELECTRICAL PANEL SCHEDULES
E.9	ELECTRICAL DETAILS
E.10	ELECTRICAL DETAILS
E.11	ELECTRICAL DETAILS
E.12	ELECTRICAL DETAILS

ROOM SCHEDULE

NUMBER	NAME	AREA
1-100	VISITOR DUGOUT	550 SF
1-101	VISITOR STORAGE	88 SF
2-100	HOME DUGOUT	569 SF
2-102	HOME STORAGE	71 SF
2-103	VEST.	48 SF
2-104	LOCKER ROOM	507 SF
2-105	VESTIBULE	59 SF
2-106	OFFICE	105 SF
2-107	TLT.	54 SF
2-108	RESTROOM	346 SF
2-109	LAUNDRY	204 SF
2-110	WOMEN RESTROOM	134 SF
2-111	MEN RESTROOM	149 SF
2-112	MEP	193 SF
GRAND TOTAL		3076 SF

PROJECT DIRECTORY:

ARCHITECTURAL

FLORIDA ARCHITECTS, INC.
648 FLORIDA AVE.
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PHONE: 850/257-5400 P

STRUCTURAL

ANDERSON ENGINEERS, P.A.
78 RICKER AVENUE
SANTA ROSA BEACH, FL 32459
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FAX: 850.231.7980

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PENSACOLA, FL 32534
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FAX : 850.432.0905

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CONSULTANTS:

FLORIDA ARCHITECTS
LICENSE #AA0002730

GULF COAST STATE COLLEGE
SINCE 1957

CLIENT:
GULF COAST STATE COLLEGE

5230 US-98
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FLORIDA 32401
850-169-1551
gulfcoast.edu

PROJECT:
GCSC SOFTBALL COMPLEX

ITB # 6 - 2016/2017

ANDERSON ENGINEERS, P.A.
78 Ricker Avenue Santa Rosa Beach, Florida
Certificate of Authorization: # 25932
PHONE: (850) 231-4540 FAX: (850) 231-7980

Premier Engineering Group, LLC
Brains, Cash & Coffee
410 W. Nine Mile Road, Suite A Pensacola, Florida 32534
Phone: (850) 469-0405 Fax: (850) 432-0905
Premier Project #15080

STATE OF FLORIDA
JOSEPH J. SCOTT
AR0012728
05/18/17
REGISTERED ARCHITECT

RELEASE:

CONSTRUCTION DOCUMENTS

SCALE:	DATE: 05/04/2017
DRAWN: N. PETROV	CHECKED: R. DAVIS

NO.	REVISION:	DATE:

SHEET TITLE:
COVER SHEET

PROJECT NO.	SHEET
4228	A0.00

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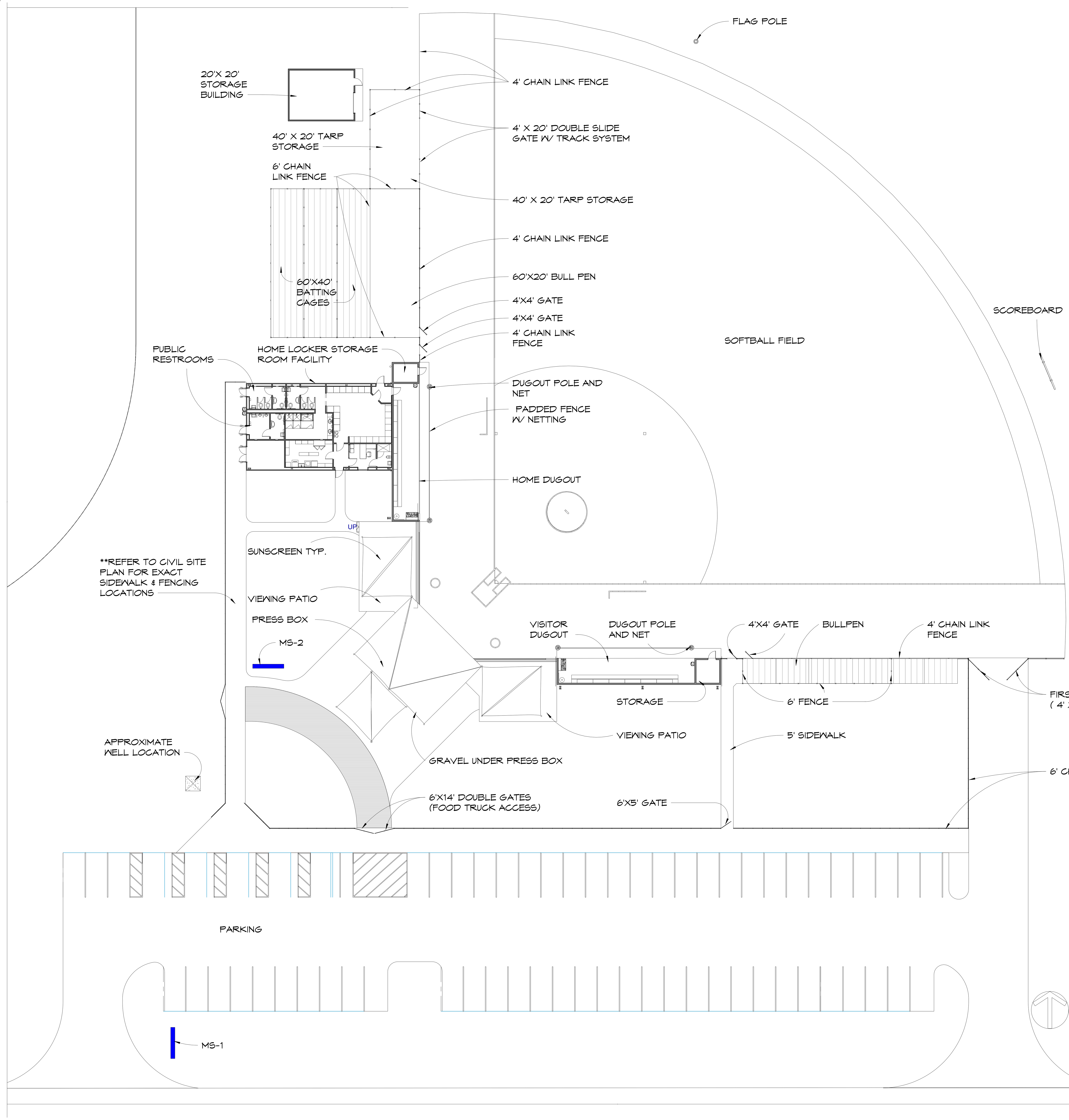
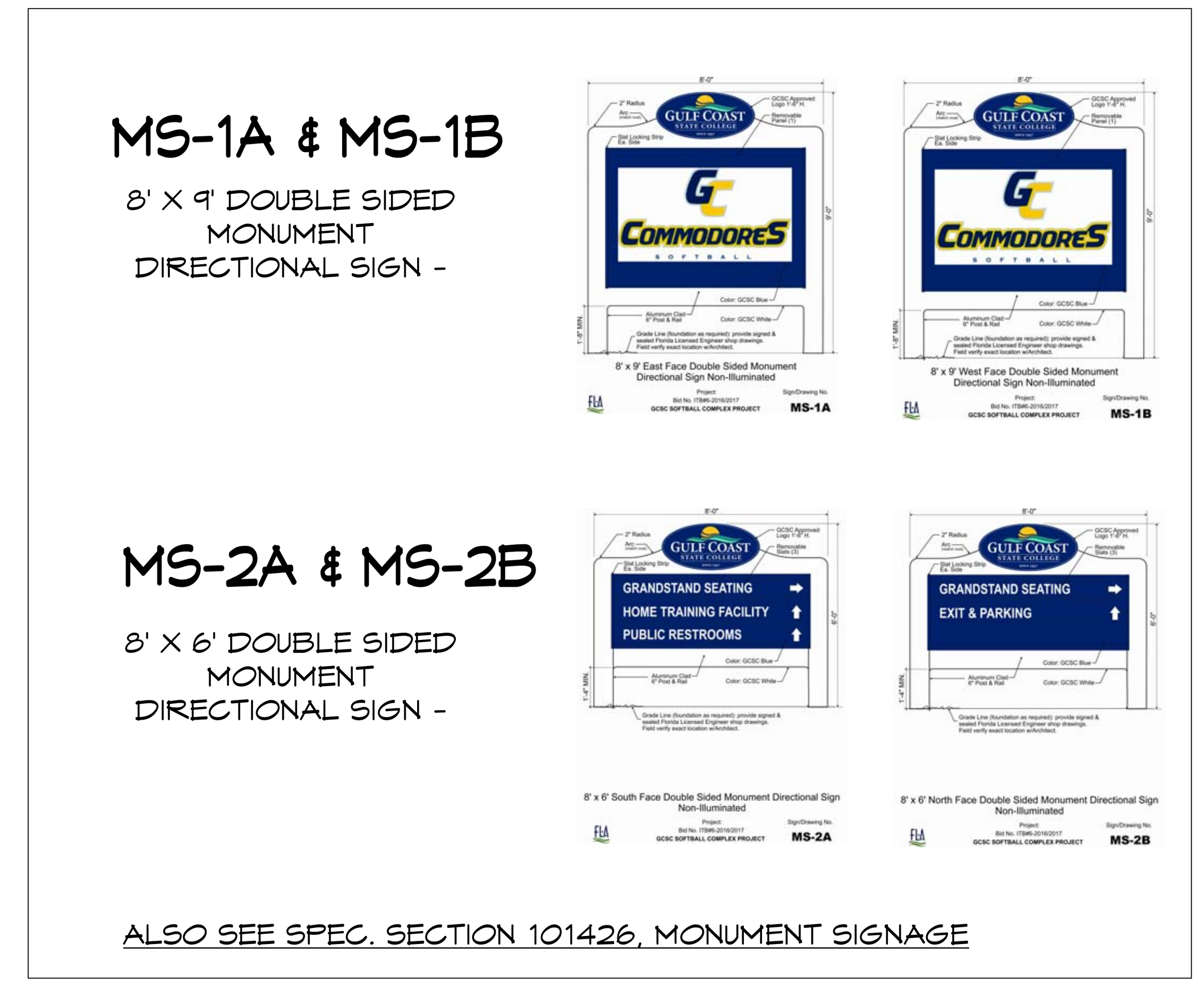
(850) 522-0644



SIGNAGE LEGEND



1 A1.00 SITE PLAN 1" = 20'-0"

0' 10' 20' 40' 80'
SCALE: 1/20" = 1' - 0"

CONSULTANTS:
FLA FLORIDA ARCHITECTS LICENSE #AA0002730

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CLIENT:
GULF COAST STATE COLLEGE

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PROJECT:
GCSC SOFTBALL COMPLEX

ITB # 6- 2016/2017

STATE OF FLORIDA JOSEPH J. SORA AR0012728 REGISTERED ARCHITECT 05/18/17

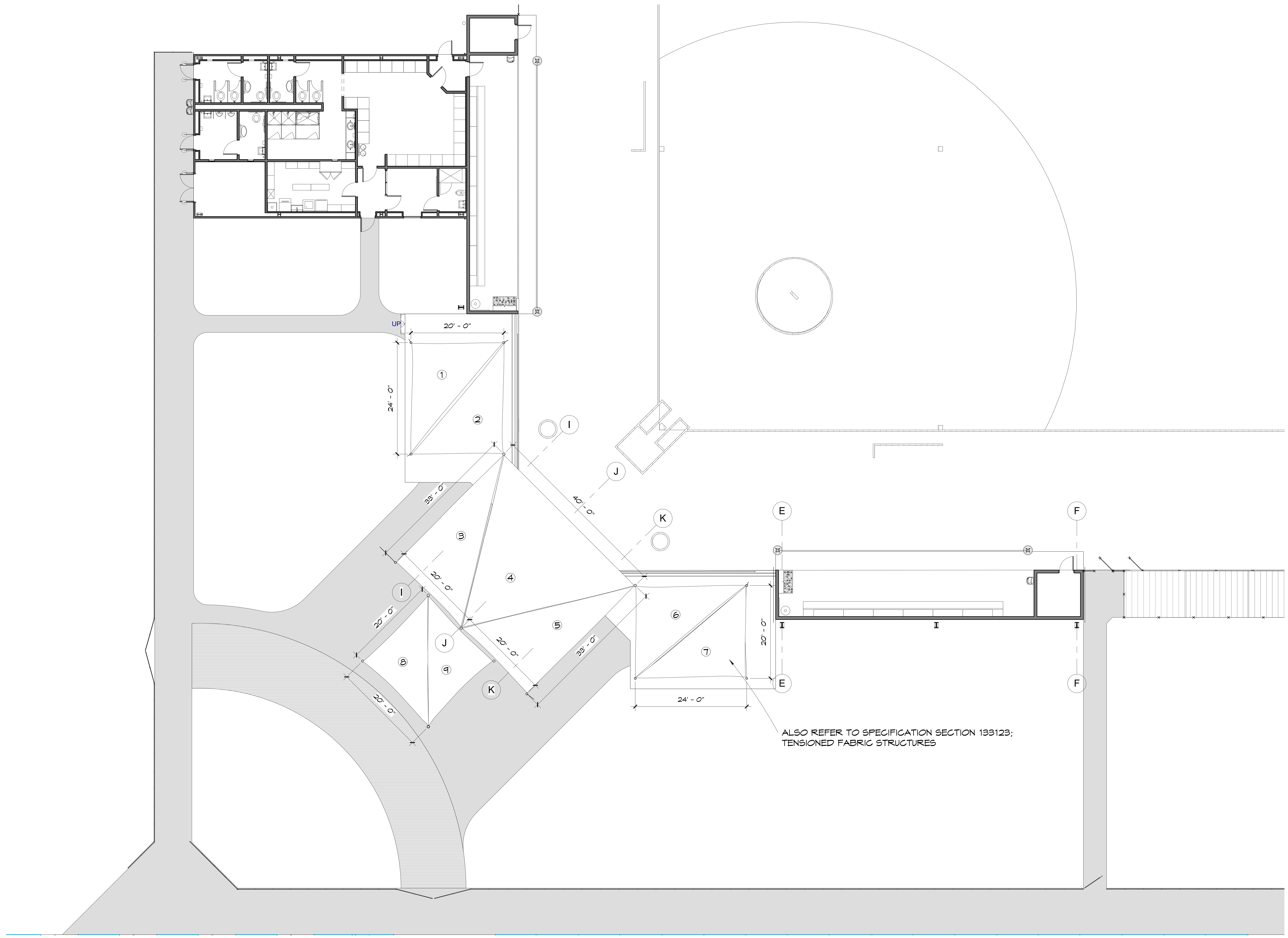
RELEASE:
100% CONSTRUCTION DOCUMENTS
GCSC SOFTBALL COMPLEX

SCALE: As indicated	DATE: 05/04/2017
DRAWN: N. PETROV	CHECKED: R. DAVIS

NO.	REVISION:	DATE:

SHEET TITLE:
SITE PLAN

PROJECT NO.	SHEET
4228	A1.00



1
A1.01

SUNSCREEN LAYOUT

ALSO REFER TO DRAWING SHEET Nº 1.05

3/32" = 1'-0"

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CONSULTANTS:

FLA
FLORIDA ARCHITECTS
LICENSE #AA0002730

GULF COAST STATE COLLEGE
SINCE 1957

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gulfcoast.edu

PROJECT:

GCSC SOFTBALL COMPLEX

ITB # 6- 2016/2017

STATE OF FLORIDA
JOSEPH J. SORCI
AR0012728
05/18/17
REGISTERED ARCHITECT

RELEASE:

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SUNSCREEN LAYOUT

PROJECT NO.	SHEET
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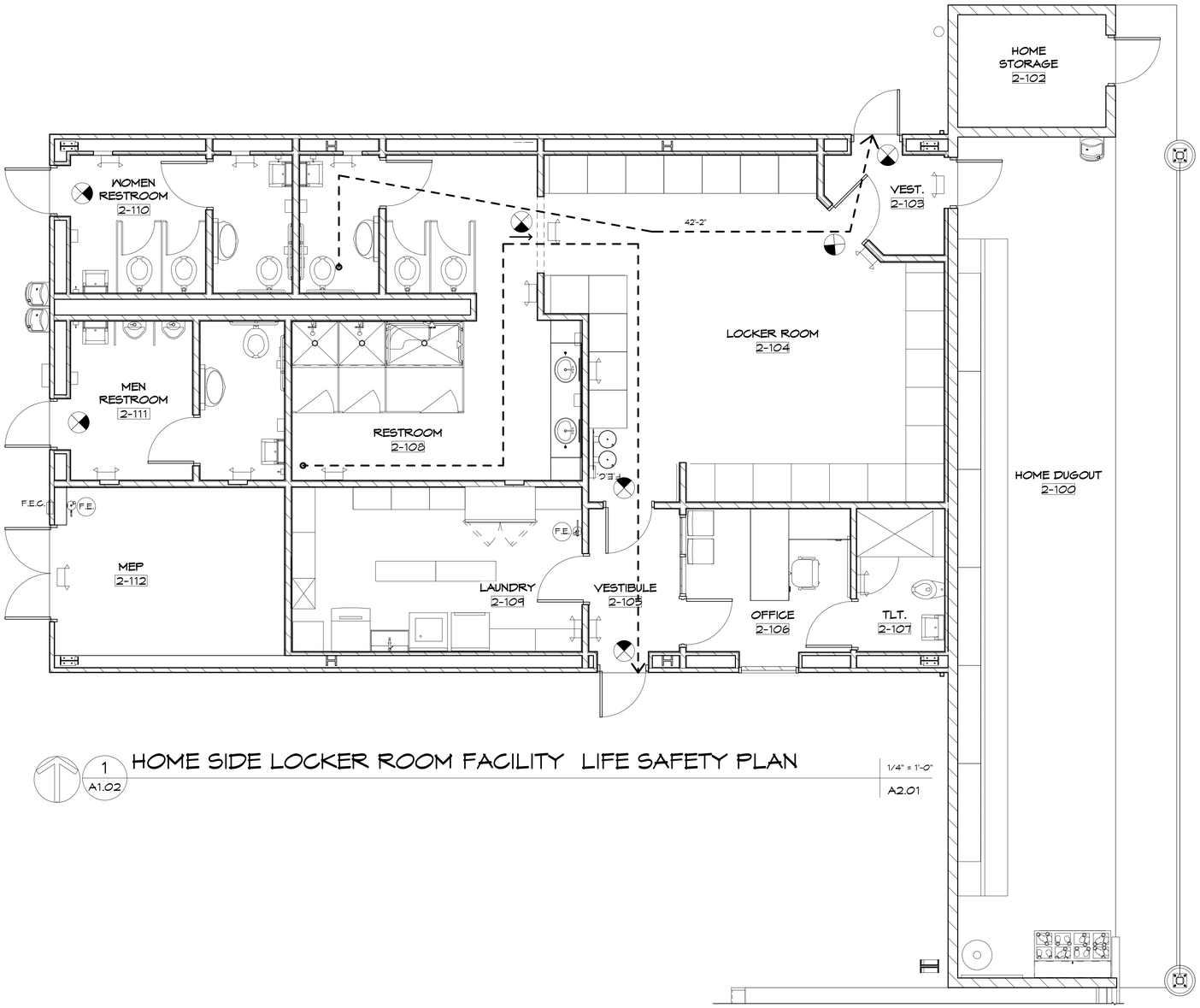

1 A1.02 HOME SIDE LOCKER ROOM FACILITY LIFE SAFETY PLAN

1/4" = 1'-0"

A2.01

BUILDING CLASSIFICATIONS:

1. TYPE OF CONSTRUCTION : HOME SIDE LOCKER, HOME AND VISITOR DUGOUT, PRESS BOX	TYPE II-B - UNPROTECTED- NON-SPRINKLED
2. TYPE OF OCCUPANCY :	ASSEMBLY GROUP A-5 (SECTION 303.6)
4. NUMBER OF STORIES:	ONE STORY BUILDING LOCKER ROOM, HOME AND VISITOR DUGOUT, AND PRESS BOX
5. BUILDING HEIGHT:	• LOCKER ROOM BUILDING HEIGHT- 19'-14" • HOME AND VISITOR DUGOUT BUILDINGS HEIGHT- 12'-4 3/4" • PRESS BOX BUILDING HEIGHT- 17'-1"

DESIGN CODES

FLORIDA BUILDING CODE (FBC)	2014 ED
FBC - PLUMBING CODE	2014 ED
FBC - ENERGY CONSERVATION CODE	2014 ED
FBC - ACCESSIBILITY CODE	2014 ED
NEC - NATIONAL ELECTRIC CODE	2014 ED
FLORIDA FIRE PREVENTION CODE	2014 ED
LIFE SAFETY CODE (NFPA 101)	2015 ED
AMERICANS WITH DISABILITIES ACT	2014 ED

LIFE SAFETY LEGEND

ROOM NAME 1-101	ROOM NUMBER DESIGNATION
(1-101)	DOOR NUMBER DESIGNATION
(F.E.)	FIRE EXTINGUISHER TYPE ON A WALL BRACKET
	EXIT LIGHT (SHADED REGION INDICATES LIGHTED SIDE)
	EMERGENCY LIGHT FIXTURE WITH BATTERY BACKUP
	1 HOUR FIRE RATED WALL (WHERE INDICATED)
	EXIT TRAVEL PATH; PRIMARY MEANS OF EGRESS FROM ROOMS
FEC	FIRE EXTINGUISHER CABINET

FIRE EXTINGUISHERS SHALL BE INDICATED AS ON LIFE SAFETY PLAN AND SHALL BE TYPE 2A-10B:C RATED EXTINGUISHER

TOTAL FLOOR AREA

NUMBER	NAME	AREA
1-100	VISITOR DUGOUT	550 SF
1-101	VISITOR STORAGE	88 SF
2-100	HOME DUGOUT	569 SF
2-102	HOME STORAGE	71 SF
2-103	VEST.	48 SF
2-104	LOCKER ROOM	507 SF
2-105	VESTIBULE	59 SF
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2-109	LAUNDRY	204 SF
2-110	WOMEN RESTROOM	134 SF
2-111	MEN RESTROOM	149 SF
2-112	MEP	193 SF
GRAND TOTAL: 14		3076 SF

TRAVEL DISTANCE REQUIREMENTS

A. COMMON PATH OF TRAVEL = 100 FT
B. DEAD END CORRIDOR LIMIT = 50FT
C. TRAVEL LIMIT DISTANCE = 200 FT

PERSON CAPACITY

HOME SIDE LOCKER	- 18 PERSONS
HOME DUGOUT	- 6 PERSONS
VISITOR DUGOUT	- 6 PERSONS
PRESS BOX	- 2 PERSONS
BLEACHERS	- 103 PERSONS

Dewberry | PREBLE-RISH
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CONSULTANTS:

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CLIENT:

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PROJECT:

GCSC SOFTBALL COMPLEX

ITB # 6- 2016/2017

STATE OF FLORIDA JOSEPH J. BOSCO AR0012728 REGISTERED ARCHITECT 05/18/17

RELEASE:

100% CONSTRUCTION DOCUMENTS

GCSC SOFTBALL COMPLEX

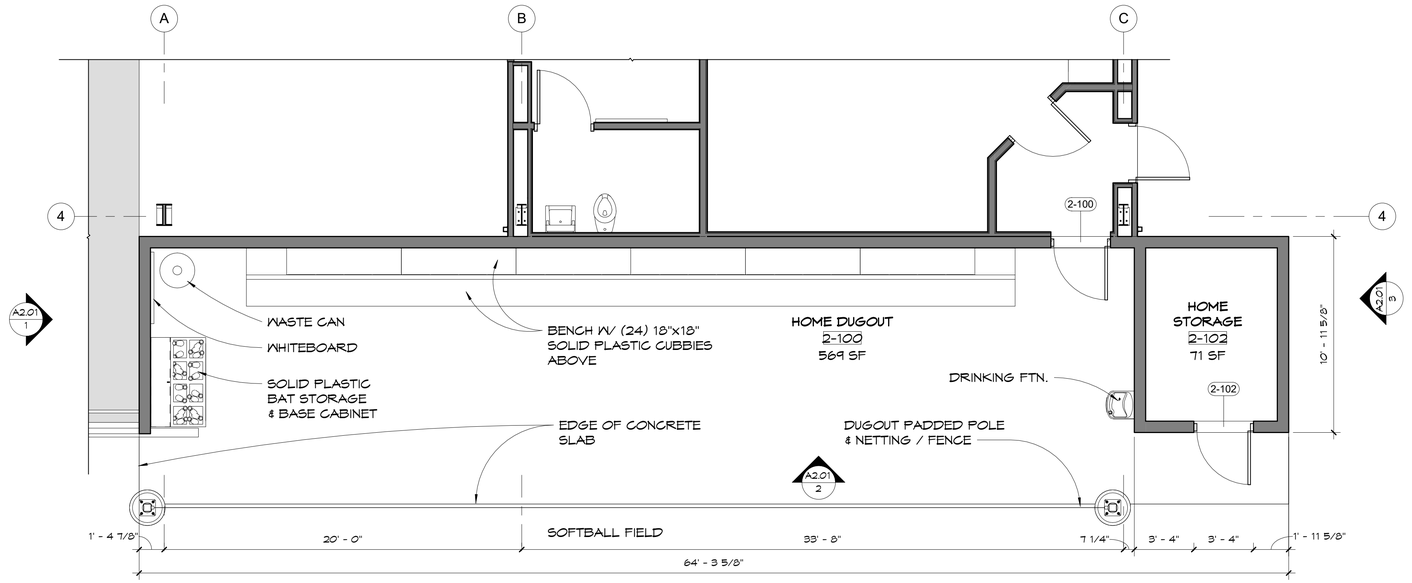
SCALE:	DATE:
1/4" = 1'-0"	05/04/2017
DRAWN: N. PETROV	CHECKED: R. DAVIS

NO.	REVISION:	DATE:

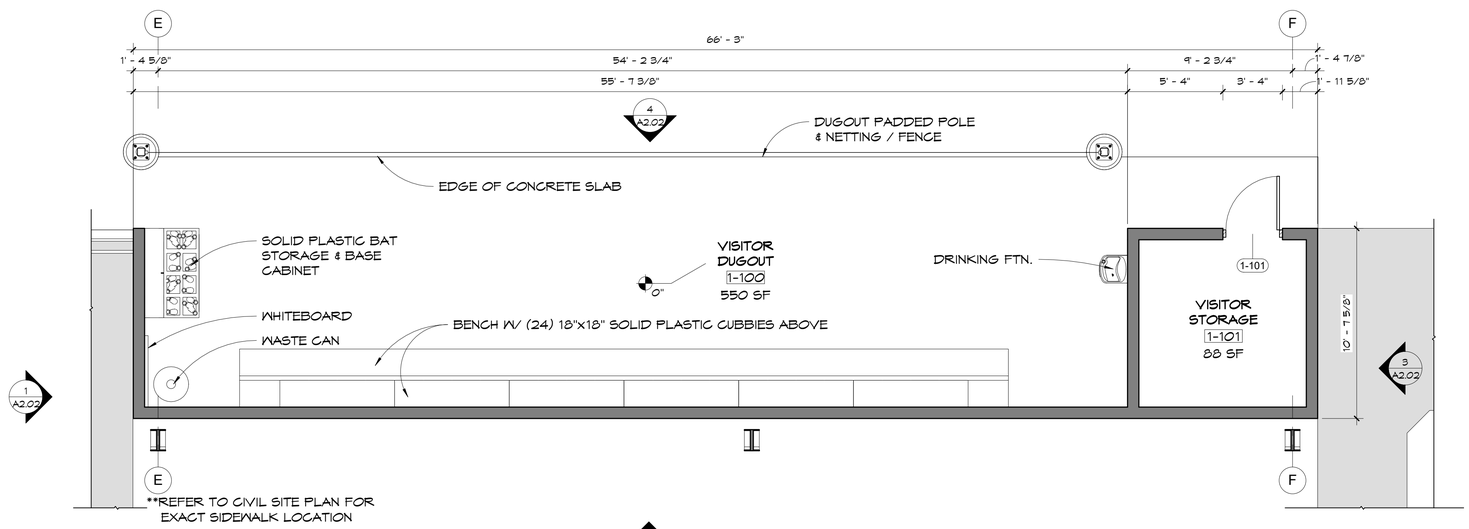
SHEET TITLE:

HOME SIDE LOCKER ROOM FACILITY LIFE SAFETY PLAN

PROJECT NO.	SHEET
4228	A1.02



10 A1.03 HOME DUGOUT FLOOR PLAN 1/4" = 1'-0"



1 A1.03 VISITOR DUGOUT FLOOR PLAN 1/4" = 1'-0"

LEGEND

1-100	ROOM NUMBER DESIGNATION
2-100	DOOR NUMBER DESIGNATION
2-100	WINDOW NUMBER DESIGNATION

MATERIALS SYMBOLS (SECTION & DETAILS)

- EARTH
- GRANULAR FILL
- INSULATING CONCRETE
- CONCRETE
- BRICK/PAVER
- MASONRY UNITS
- STONE
- BATT INSULATION
- RIGID INSULATION
- CERAMIC TILE
- GLASS
- PLYWOOD
- FINISH WOOD
- ROUGH WOOD
- BLOCKING/SHIM
- METAL
- STUCCO, PLASTER, MORTAR, OR GROUT
- GYPSUM BOARD
- VENEER
- METAL
- METAL LATH

GENERAL SYMBOLS

- 3 / A5.02 — DETAIL NO. 3, SHEET NO. A5.02
- BUILDING OR WALL SECTION
- 25 / A5.15 — DETAIL NO. 25, SHEET NO. A5.15
- DETAIL REFERENCE
- 6 / A4.11 — DETAIL NO. 6, SHEET NO. A4.11
- BUILDING ELEVATION
- A — VIEW A
- 6 / A6.01 — DETAIL NO. 6, SHEET NO. A6.01
- INTERIOR ELEVATION
- PROPERTY LINE
- CENTER LINE
- HIDDEN LINE OR LINE ABOVE
- BREAK LINE
- PLAN NORTH NORTH ARROW
- TRUE NORTH NORTH ARROW
- 100 — DOOR NUMBER
- D.F. - DRINKING FOUNTAIN
- EWC - ELECTRIC WATER COOLER FOUNTAIN
- H.D. - HAND DRYER
- 78.0 — EXISTING POINT ELEVATION
- 78.0 — NEW OR FINISH POINT ELEVATION
- 99.0 — EXISTING CONTOUR LINE
- 101.0 — NEW OR FINISH CONTOUR LINE
- TB-1 — TEST BORING
- LEVEL ELEVATION DATUM POINT
- 3 — REVISION NUMBER
- A / 1 — COLUMN LINE REFERENCE
- A — INDICATES WINDOW TYPE
- 4 — KEYNOTE
- ROOM 0-000 — ROOM NAME, ROOM NUMBER
- XA — PARTITION TYPE
- FCT - FOLDING CHANGING TABLE
- T.B. - RECESSED TRASH BIN

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CONSULTANTS:
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LICENSE #AA0002730

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SINCE 1957

CLIENT:

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5230 US-98
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FLORIDA 32401
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PROJECT:

GCSC SOFTBALL COMPLEX

ITB # 6- 2016/2017

STATE OF FLORIDA
JOSEPH J. BOSCO
AR0012728
REGISTERED ARCHITECT
05/18/17

RELEASE:

100% CONSTRUCTION DOCUMENTS

GCSC SOFTBALL COMPLEX

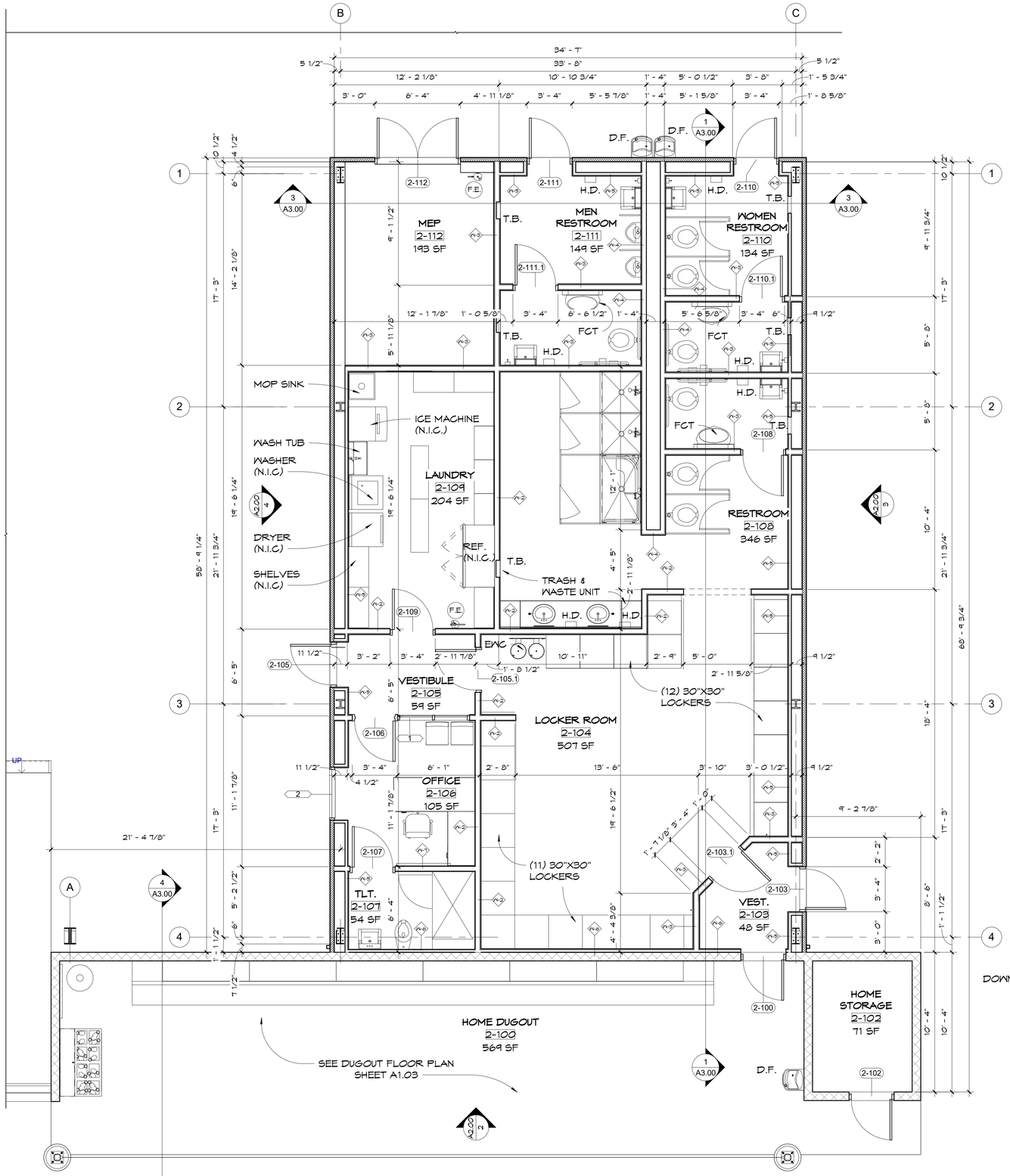
SCALE:	DATE:
As indicated	05/04/2017
DRAWN: N. PETROV	CHECKED: R. DAVIS

NO.	REVISION:	DATE:

SHEET TITLE:

HOME AND VISITOR DUGOUT FLOOR PLAN

PROJECT NO.	SHEET
4228	A1.03



GENERAL DIMENSION NOTES:

1. VERIFY ALL DIMENSIONS IN FIELD PRIOR TO START OF CONSTRUCTION.

2. VERIFY ALL FIELD CONDITIONS AND DIMENSIONS FOR COORDINATION OF ALL TRADES AND EQUIPMENT FROM VENDORS BEFORE CONSTRUCTION AND INSTALLATION.

3. DIMENSIONS TAKE PRECEDENCE OVER DRAWINGS. DO NOT SCALE DRAWINGS.

4. DIMENSIONS ARE FROM FACE OF METAL STUDS, CENTERLINE OF COLUMNS OR NOMINAL FACE OF CONCRETE MASONRY.

5. INTERIOR STUD WALL DIMENSIONS ARE TAKEN FROM FACE OF METAL STUDS.

6. GENERALLY, DOOR OPENINGS ARE LOCATED BY DIMENSION FROM OUTSIDE OF JAMB TO OUTSIDEOF JAMB (ROUGH OPENING).

7. WINDOW HORIZONTAL DIMENSIONS ARE TAKEN FROM JAMB TO JAMB UNO. REFER TO WINDOW ELEVATION/ SCHEDULE FOR WINDOW ROUGH OPENING DIMENSIONS

8. ALL THRESHOLDS TO BE 1/2" (MAX.) IN HEIGHT.

MATERIALS SYMBOLS (SECTION & DETAILS)

- EARTH
- GRANULAR FILL
- INSULATING CONCRETE
- CONCRETE
- BRICK/PAVER
- MASONRY UNITS
- STONE
- BATT INSULATION
- RIGID INSULATION
- CERAMIC TILE
- GLASS
- PLYWOOD
- FINISH WOOD
- ROUGH WOOD
- BLOCKING/SHIM
- METAL
- STUCCO, PLASTER, MORTAR,OR GROUT
- GYPSUM BOARD
- VENEER
- METAL
- METAL LATH

GENERAL SYMBOLS

- 3 / A5.02 — DETAIL NO. 3, SHEET NO. A5.02 — BUILDING OR WALL SECTION
- 25 / A5.15 — DETAIL NO. 25, SHEET NO. A5.15 — DETAIL REFERENCE
- 6 / A4.11 — DETAIL NO. 6, SHEET NO. A4.11 — BUILDING ELEVATION
- A / 6 / A6.01 — VIEW A, DETAIL NO. 6, SHEET NO. A6.01 — INTERIOR ELEVATION
- PROPERTY LINE
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- HIDDEN LINE OR LINE ABOVE
- BREAK LINE
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- DOOR NUMBER
- 78.0 — EXISTING POINT ELEVATION
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- 99.0 — EXISTING CONTOUR LINE
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- TB-1 — TEST BORING
- LEVEL ELEVATION DATUM POINT
- 3 — REVISION NUMBER
- 1 / A — COLUMN LINE REFERENCE
- A — INDICATES WINDOW TYPE
- 4 — KEYNOTE
- ROOM 0-000 — ROOM NAME, ROOM NUMBER
- 1A — PARTITION TYPE

D.F. - DRINKING FOUNTAIN

EWC - ELECTRIC WATER COOLER FOUNTAIN

H.D. - HAND DRYER

FCT - FOLDING CHANGING TABLE

T.B. - RECESSED TRASH BIN

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GCSC SOFTBALL COMPLEX

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STATE OF FLORIDA — JOSEPH J. PORTA — AR0012728 — 05/16/17 — REGISTERED ARCHITECT

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GCSC SOFTBALL COMPLEX

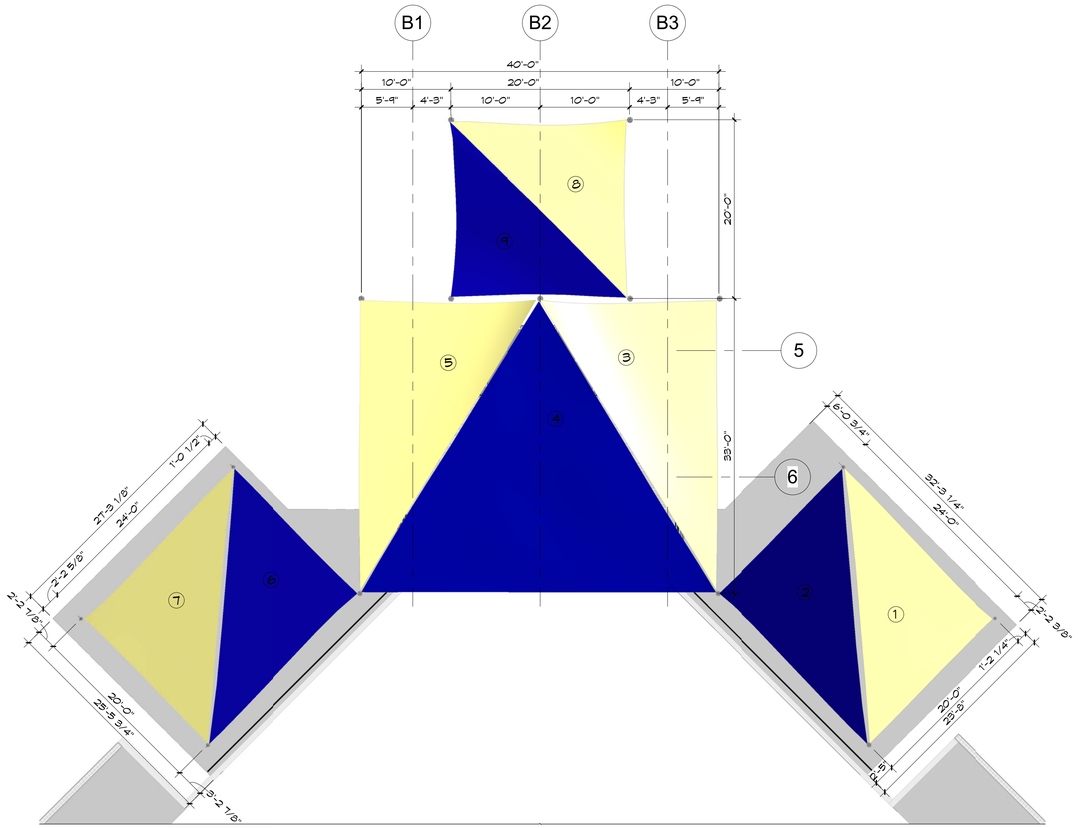
SCALE:	DATE:
As indicated	05/04/2017
DRAWN: N. PETROV	CHECKED: R. DAVIS

NO.	REVISION:	DATE:

SHEET TITLE:

HOME SIDE LOCKER RM. AND DUGOUT PLAN

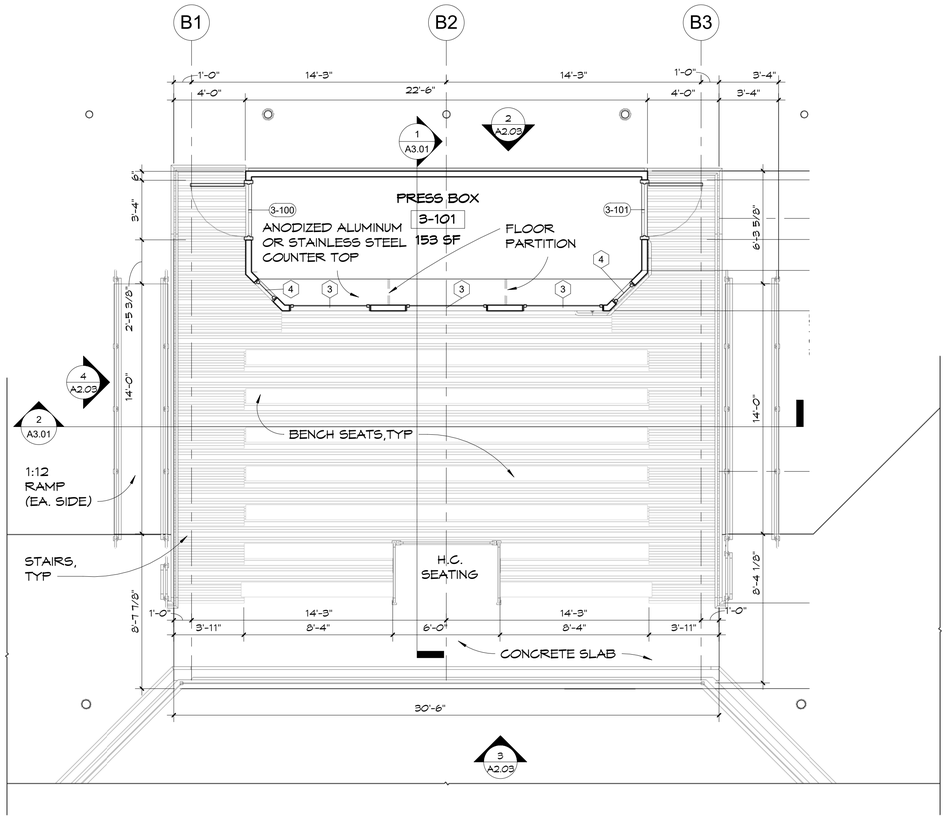
PROJECT NO.	SHEET
4228	A1.04



2 A1.05 PRESS BOX SUNSCREEN PLAN

1/8" = 1'-0"

ALSO REFER TO DRAWING SHEET
Nº A1.01; SUNSCREEN LAYOUT



1 A1.05 PRESS BOX FLOOR PLAN

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PROJECT:
GCSC SOFTBALL COMPLEX
ITB # 6- 2016/2017

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JOSEPH J. PORTER
AR0012728
05/18/17
REGISTERED ARCHITECT

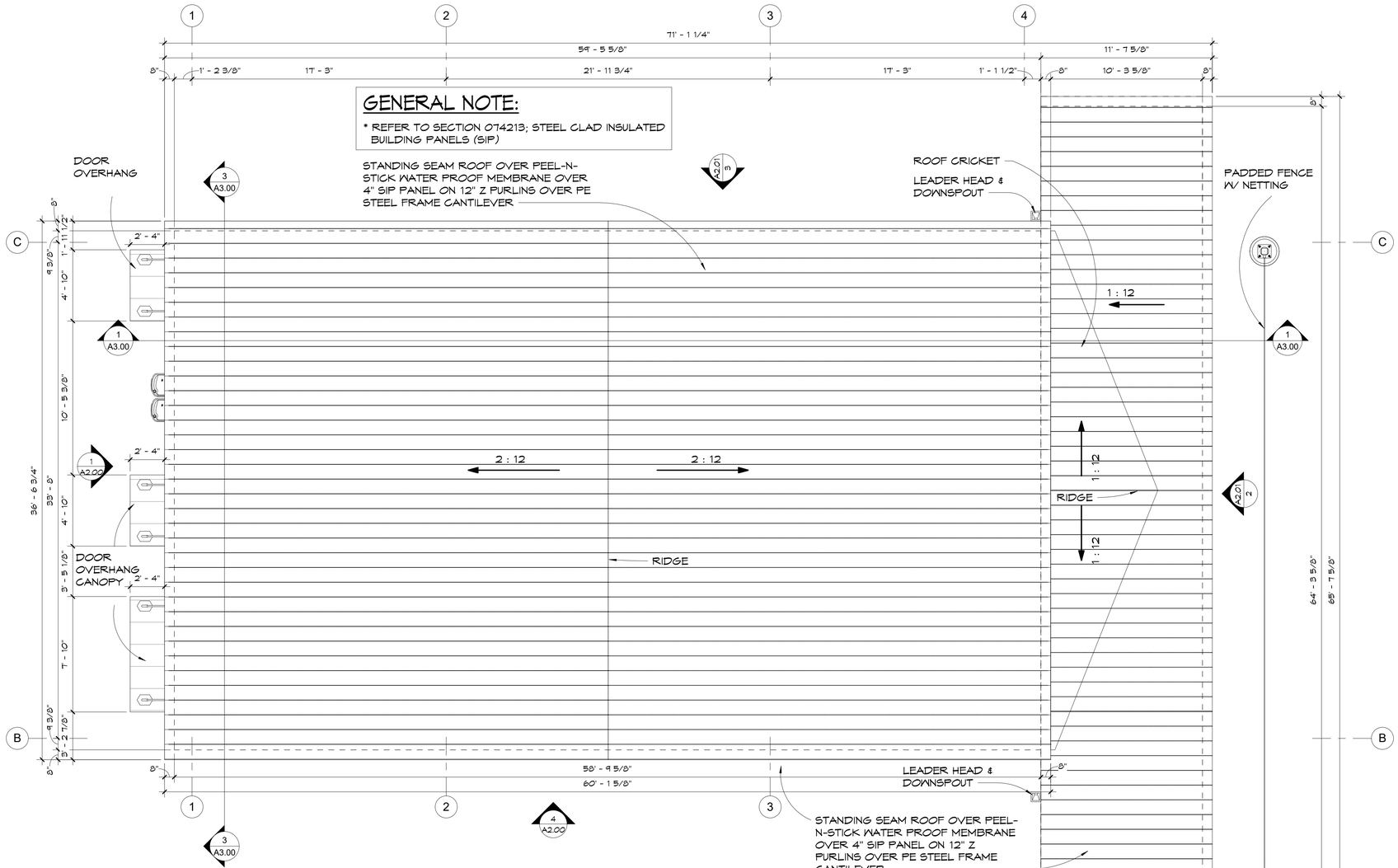
RELEASE:
CONSTRUCTION DOCUMENTS

SCALE:	DATE:
As indicated	05/04/17
DRAWN: N. PETROV	CHECKED: R. DAVIS

NO.	REVISION:	DATE:

SHEET TITLE:
PRESS BOX FLOOR PLAN

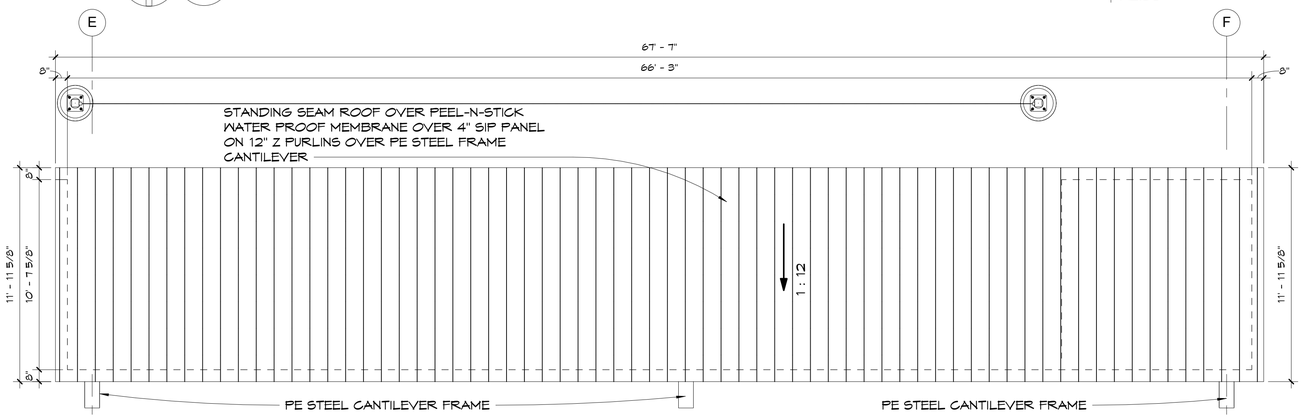
PROJECT NO.	SHEET
4228	A1.05



1 A1.06 LOCKER ROOM FACILITY & DUGOUT ROOF PLAN

1/4" = 1'-0"

A2.00



2 A1.06 VISITOR DUGOUT ROOF PLAN

1/4" = 1'-0"

A2.00

GENERAL NOTE

* ALL EXPOSED STEEL TO RECEIVE HIGH PERFORMANCE COATING (SPEC. SECTION 099600)
* PRIME OR PAINT ALL FIELD CUT EDGES OF INSULATED METAL PANELS

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AR0012728
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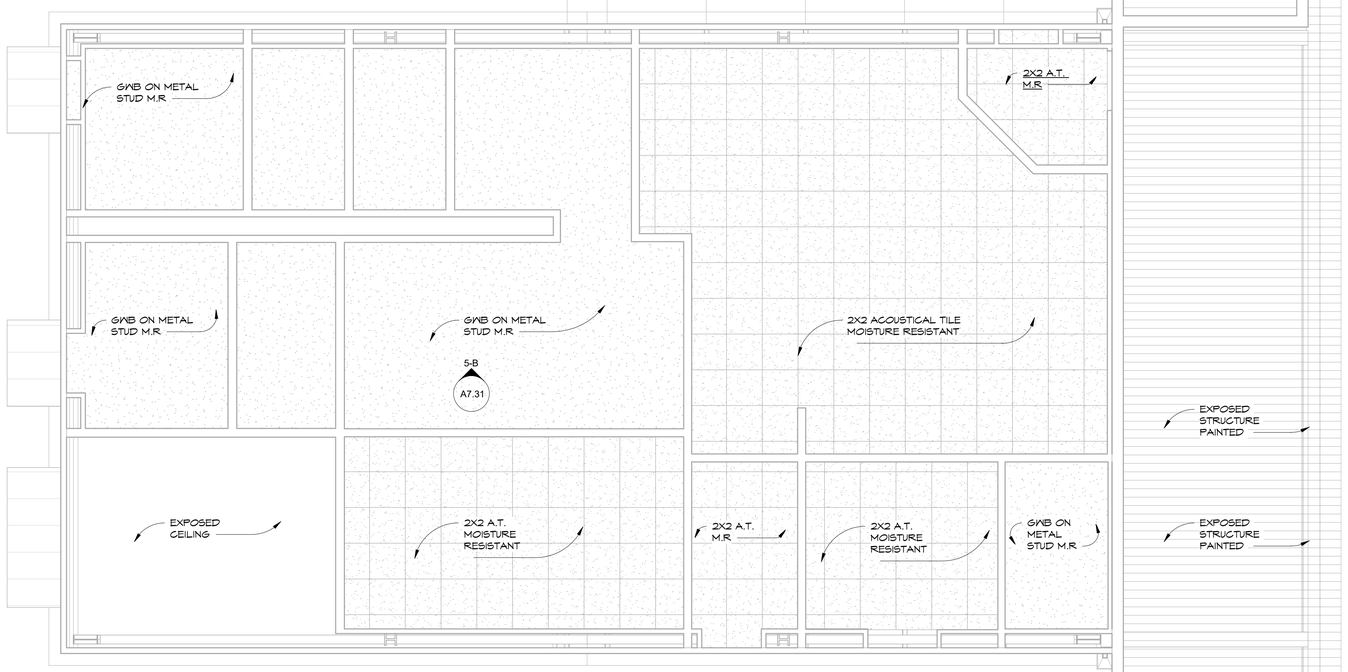
1/4" = 1'-0"	05/04/17
DRAWN: N. PETROV	CHECKED: R. DAVIS

NO.	REVISION:	DATE:

SHEET TITLE:

ROOF PLAN

PROJECT NO.	SHEET
4228	A1.06



RCP LEGEND:

- 2X2 ACOUSTICAL TILE MOISTURE RESISTANT
- GYP. BOARD ON METAL STUD WATER RESISTANT
- GYP. BOARD ON METAL STUD
- STRUCTURAL METAL PANEL DECKING

NOTE:

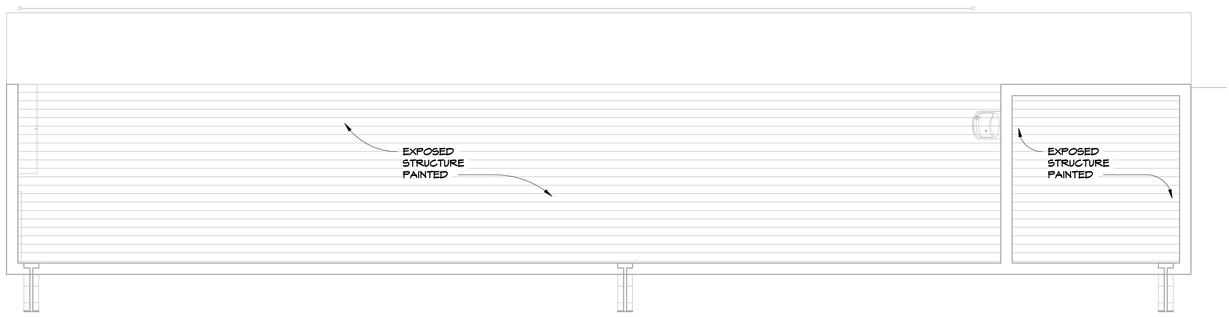
1. ALL CEILING ELEVATIONS ARE FROM ABOVE FINISH FLOOR (REFER TO SCHEDULE)
2. REFER TO LIFE SAFETY PLANS AND ELECTRICAL LIGHTING PLANS FOR LOCATIONS OF EMERGENCY LIGHTS
3. ALL EXPOSED STRUCTURAL STEEL TO RECEIVE HIGH PERFORMANCE COATING-REFER TO SPEC. SECTION 099600

1 A1.11 LOCKER RM. AND DUGOUT REFLECTED CEILING PLAN

1/4" = 1'-0"

A2.01

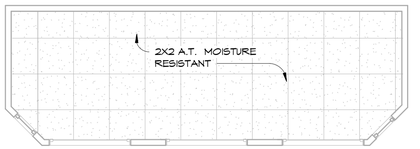
SOFTBALL FIELD



2 A1.11 VISITOR DUGOUT REFLECTED FLOOR PLAN

1/4" = 1'-0"

A2.01



3 A1.111 PRESS BOX CEILING PLAN

1/4" = 1'-0"

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gulfcoast.edu

PROJECT:

GCSC SOFTBALL COMPLEX

ITB # 6- 2016/2017

STATE OF FLORIDA
JOSEPH J. BOSCO
AR0012728
05/18/17
REGISTERED ARCHITECT

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GCSC SOFTBALL COMPLEX

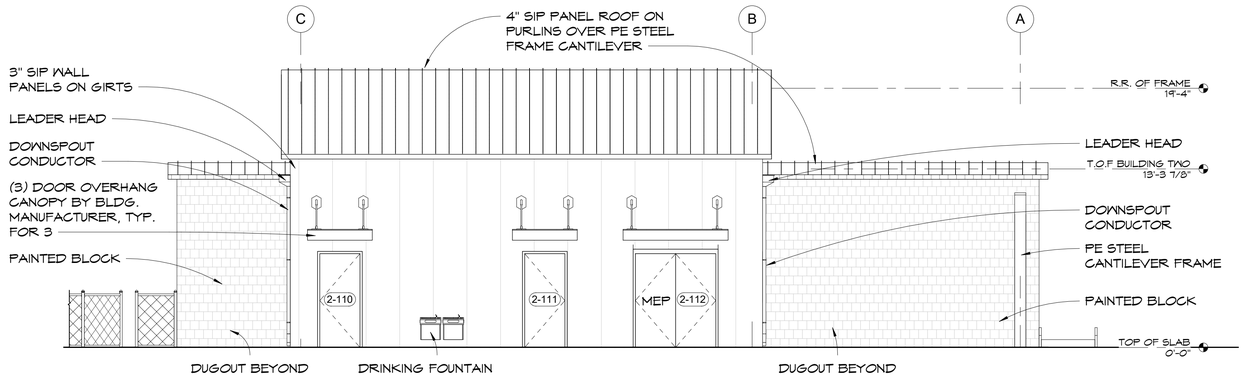
SCALE:	DATE:
As indicated	05/04/2017
DRAWN: N. PETROV	CHECKED: R. DAVIS

NO.	REVISION:	DATE:

SHEET TITLE:

REFLECTED CEILING PLAN

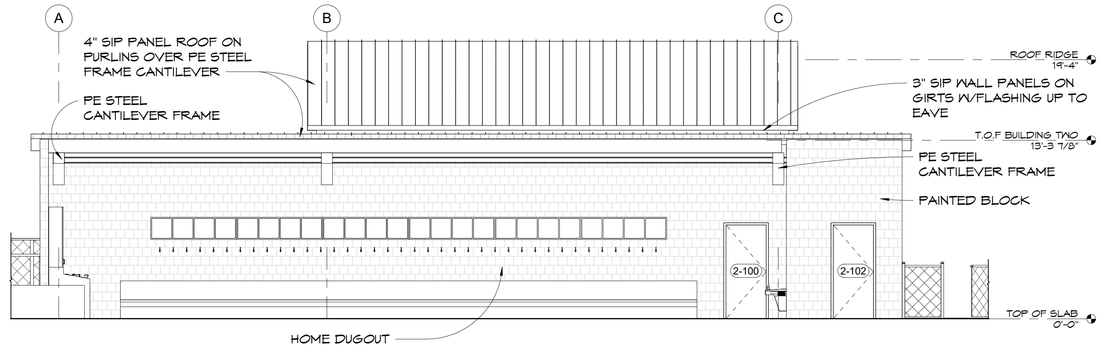
PROJECT NO.	SHEET
4228	A1.11



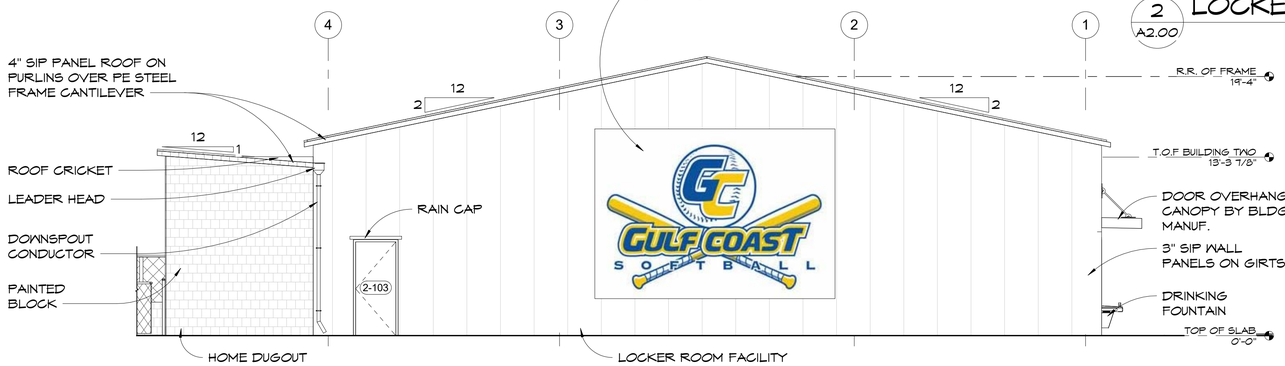
1 A2.00 **LOCKER ROOM FACILITY WEST ELEVATION** 3/16" = 1'-0"

GENERAL NOTES:

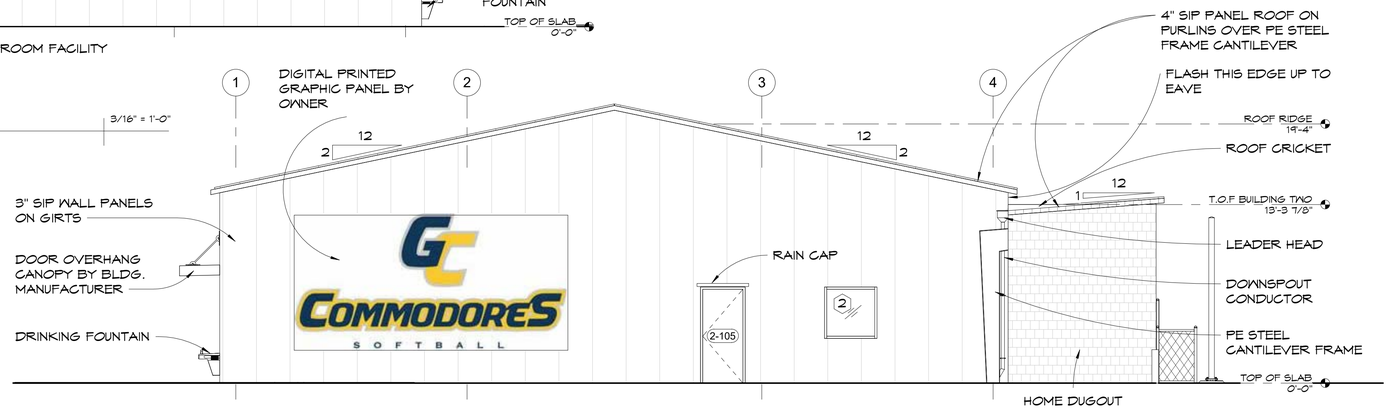
* PRIME OR PAINT ALL FIELD CUT EDGES INSULATED METAL PANELS
* ALL EXPOSED STRUCTURAL STEEL TO RECEIVE HIGH PERFORMANCE COATING - REFER TO SPEC. SECTION 099600
* REFER TO SPEC. SECTION 074213; STEEL CLAD INSULATED BUILDING PANELS (SIP)



2 A2.00 **LOCKER ROOM FACILITY EAST ELEVATION** 3/16" = 1'-0"



3 A2.00 **LOCKER ROOM FACILITY NORTH ELEVATION** 3/16" = 1'-0"



4 A2.00 **LOCKER ROOM FACILITY SOUTH ELEVATION** 3/16" = 1'-0"

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LICENSE #AA0002730

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gulfcoast.edu

PROJECT:

GCSC SOFTBALL COMPLEX

ITB # 6- 2016/2017

STATE OF FLORIDA
JOSEPH J. PORTER
AR0012728
05/18/17
REGISTERED ARCHITECT

RELEASE:

100% CONSTRUCTION DOCUMENTS

GCSC SOFTBALL COMPLEX

SCALE:	DATE:
3/16" = 1'-0"	05/04/2017
DRAWN: N. PETROV	CHECKED: R. DAVIS

NO.	REVISION:	DATE:

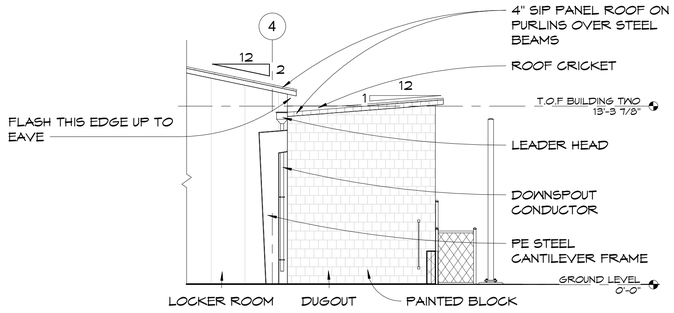
SHEET TITLE:

HOME SIDE LOCKER ROOM FACILITY ELEVATIONS

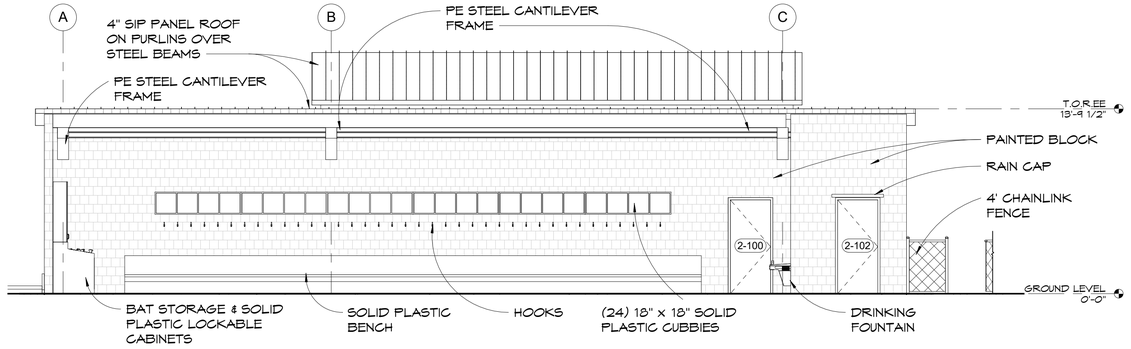
PROJECT NO.	SHEET
4228	A2.00

GENERAL NOTES:

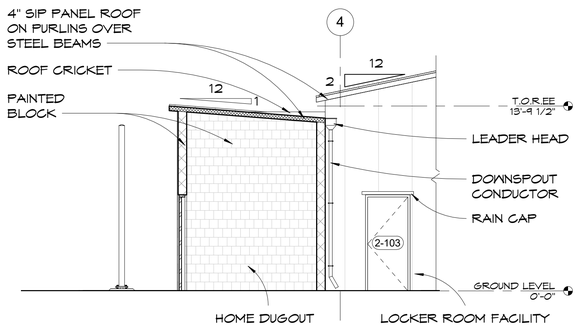
* PRIME OR PAINT ALL FIELD CUT EDGES INSULATED METAL PANELS
* ALL EXPOSED STRUCTURAL STEEL TO RECEIVE HIGH PERFORMANCE COATING - REFER TO SPEC. SECTION 099600
* REFER TO SPEC. SECTION 074213; STEEL CLAD INSULATED BUILDING PANELS (SIP)



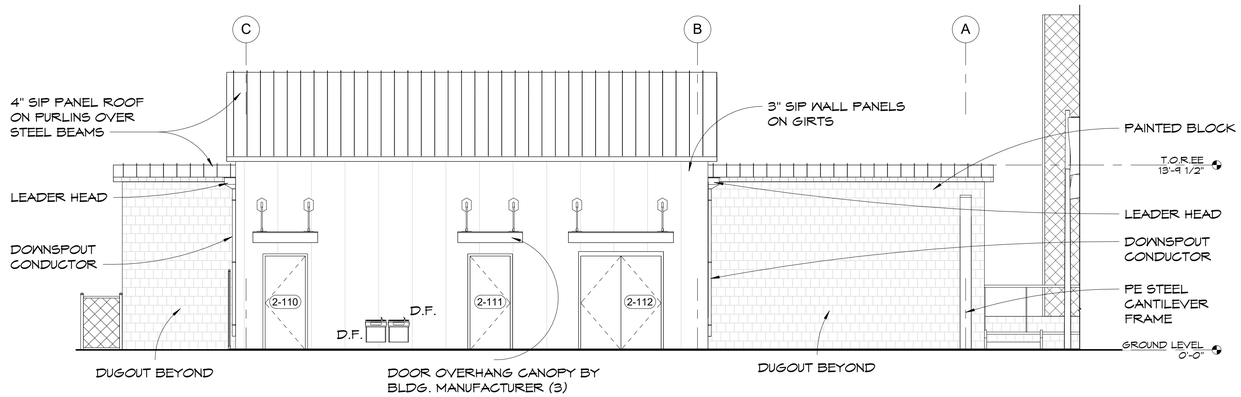
1 A2.01 SOUTH ELEV. - HOME 3/16" = 1'-0"



2 A2.01 EAST ELEV. - HOME 3/16" = 1'-0"



3 A2.01 NORTH ELEV. - HOME 3/16" = 1'-0"



4 A2.01 WEST ELEV. - HOME 3/16" = 1'-0"

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PROJECT:

GCSC SOFTBALL COMPLEX

ITB # 6- 2016/2017

STATE OF FLORIDA
JOSEPH J. SORRELL
AR0012728
05/16/17
REGISTERED ARCHITECT

RELEASE:

100% CONSTRUCTION DOCUMENTS

GCSC SOFTBALL COMPLEX

SCALE:	DATE:
3/16" = 1'-0"	05/04/2017
DRAWN: N. PETROV	CHECKED: R. DAVIS

NO.	REVISION:	DATE:

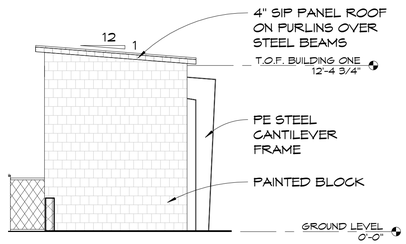
SHEET TITLE:

HOME DUGOUT ELEVATIONS

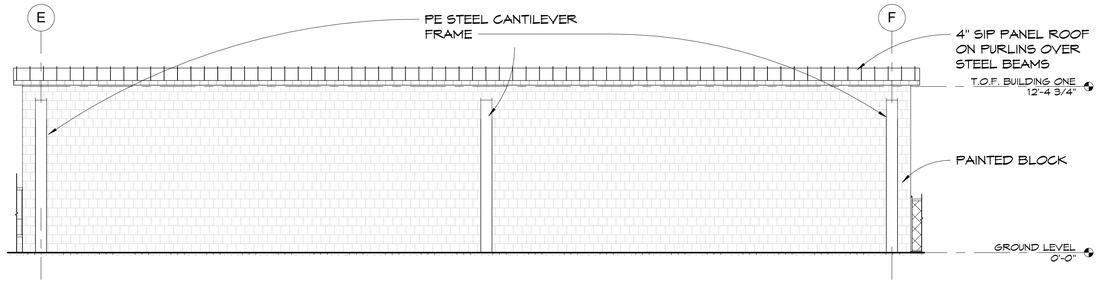
PROJECT NO.	SHEET
4228	A2.01

GENERAL NOTES:

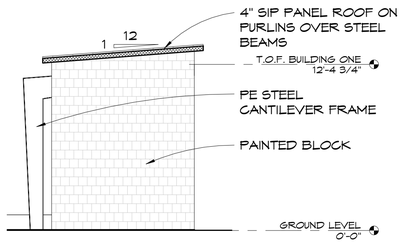
* PRIME OR PAINT ALL FIELD CUT EDGES INSULATED METAL PANELS
* ALL EXPOSED STRUCTURAL STEEL TO RECEIVE HIGH PERFORMANCE COATING - REFER TO SPEC. SECTION 099600
* REFER TO SPEC. SECTION 074213; STEEL CLAD INSULATED BUILDING PANELS (SIP)



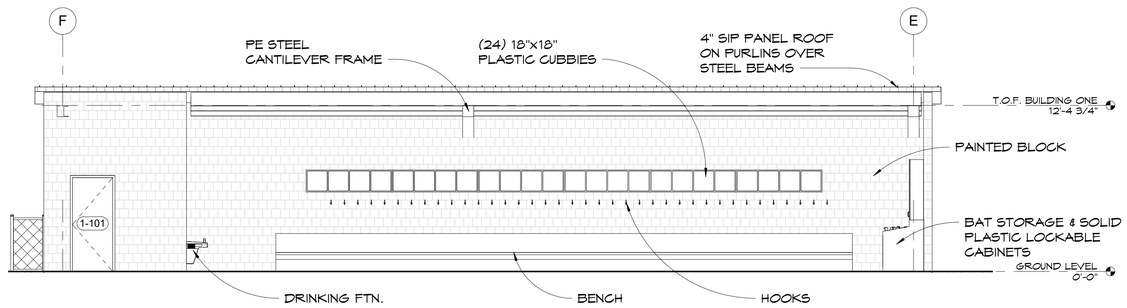
1 A2.02 WEST ELEV. - VISITOR 3/16" = 1'-0"



2 A2.02 SOUTH ELEV. - VISITOR 3/16" = 1'-0"



3 A2.02 EAST ELEV. - VISITOR 3/16" = 1'-0"



4 A2.02 NORTH ELEV. - VISITOR 3/16" = 1'-0"

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PROJECT:

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STATE OF FLORIDA JOSEPH J. SORCE AR0012728 05/16/17 REGISTERED ARCHITECT

RELEASE:

100% CONSTRUCTION DOCUMENTS

GCSC SOFTBALL COMPLEX

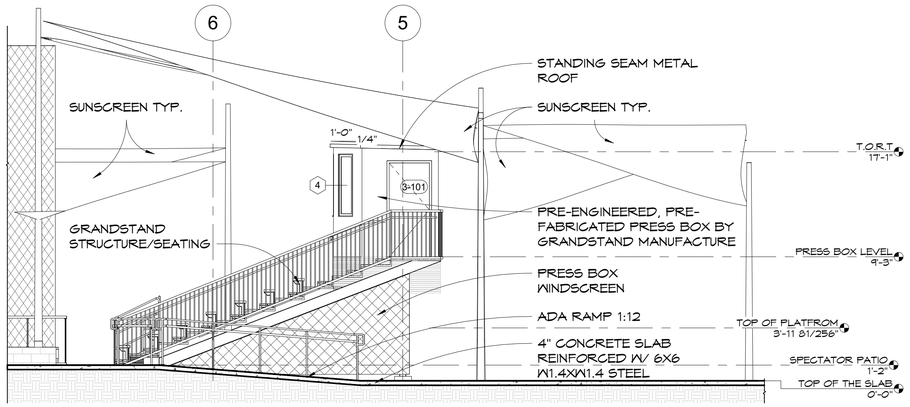
SCALE:	DATE:
3/16" = 1'-0"	05/04/17
DRAWN: N. PETROV	CHECKED: R. DAVIS

NO.	REVISION:	DATE:

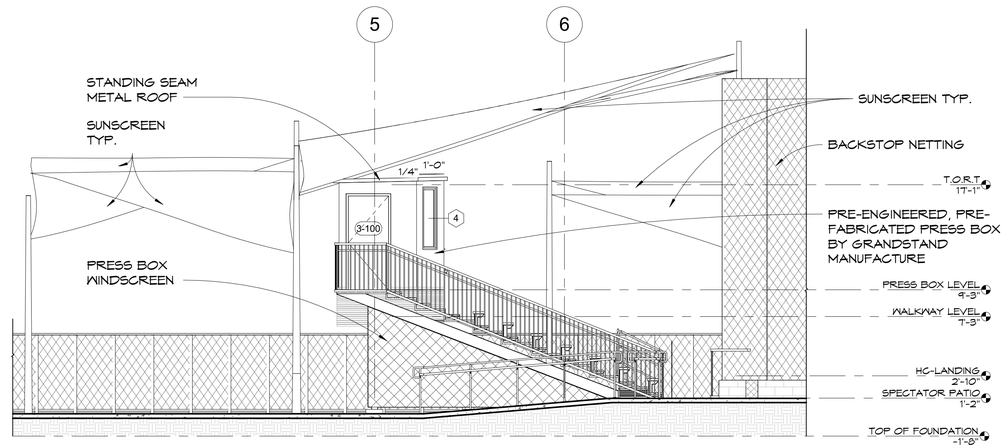
SHEET TITLE:

VISITOR DUGOUT ELEVATIONS

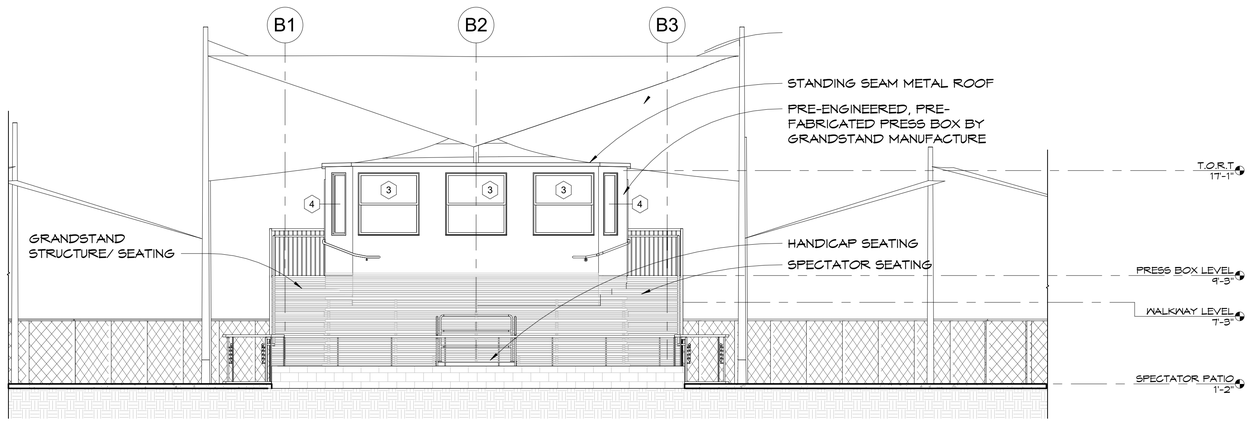
PROJECT NO.	SHEET
4228	A2.02



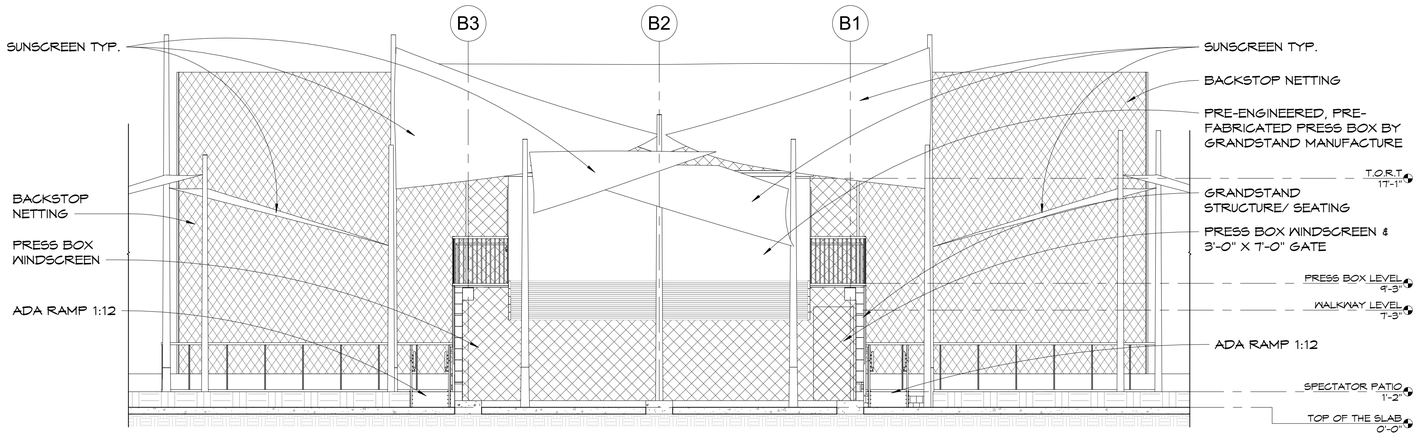
1 A2.03 **EAST ELEVATION** 3/16" = 1'-0"



4 A2.03 **WEST ELEVATION** 3/16" = 1'-0"



3 A2.03 **SOUTH ELEVATION** 3/16" = 1'-0"



2 A2.03 **NORTH ELEVATION** 3/16" = 1'-0"

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(850) 522-0644

CONSULTANTS:

FLA FLORIDA ARCHITECTS LICENSE #AA0002730

GULF COAST STATE COLLEGE SINCE 1957

CLIENT:

GULF COAST STATE COLLEGE

5230 US-98
PANAMA CITY,
FLORIDA 32401
850.169.1551
gulfcoast.edu

PROJECT:

GCSC SOFTBALL COMPLEX

ITB # 6- 2016/2017

STATE OF FLORIDA · JOSEPH J. BORG · AR0012728 · 05/18/17 · REGISTERED ARCHITECT

RELEASE:

CONSTRUCTION DOCUMENTS

SCALE:	DATE:
3/16" = 1'-0"	05/04/17
DRAWN: N. PETROV	CHECKED: R. DAVIS

NO.	REVISION:	DATE:

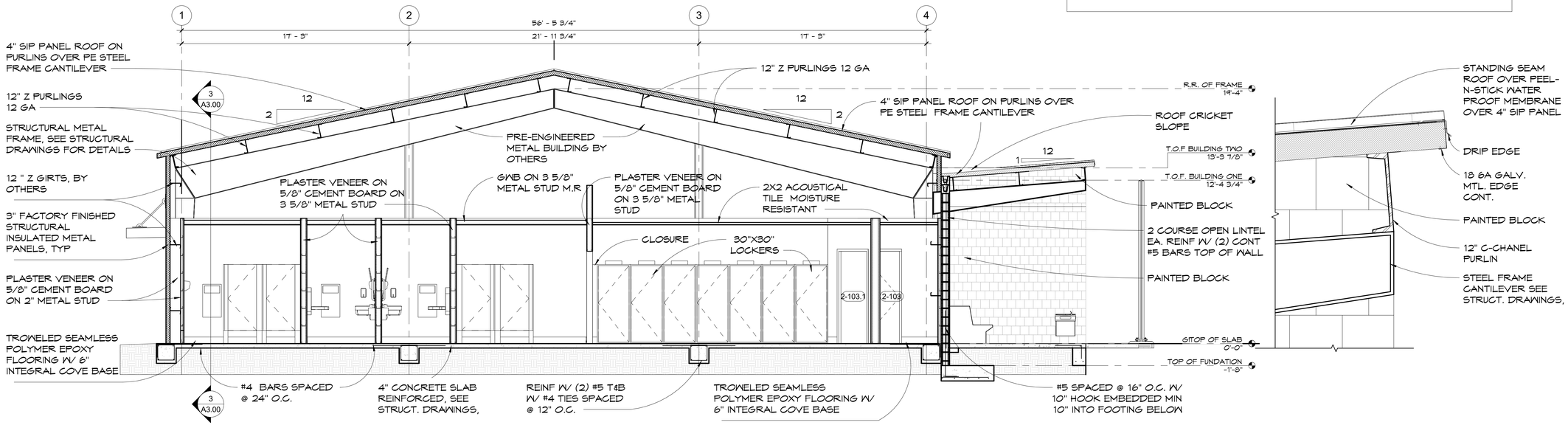
SHEET TITLE:

PRESS BOX ELEVATIONS

PROJECT NO.	SHEET
4228	A2.03

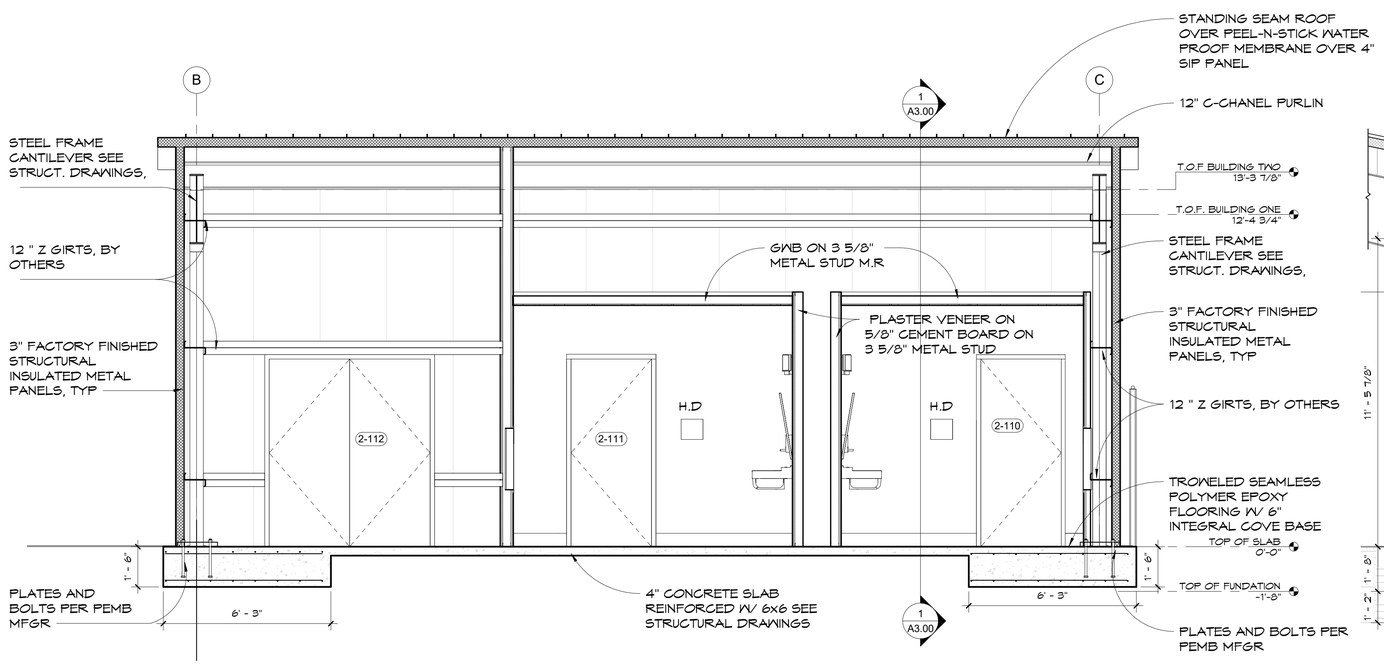
GENERAL NOTES:

* PRIME OR PAINT ALL FIELD CUT EDGES INSULATED METAL PANELS
* ALL EXPOSED STRUCTURAL STEEL TO RECEIVE HIGH PERFORMANCE COATING - REFER TO SPEC. SECTION 099600
* REFER TO SPEC. SECTION 074213; STEEL CLAD INSULATED BUILDING PANELS (SIP)

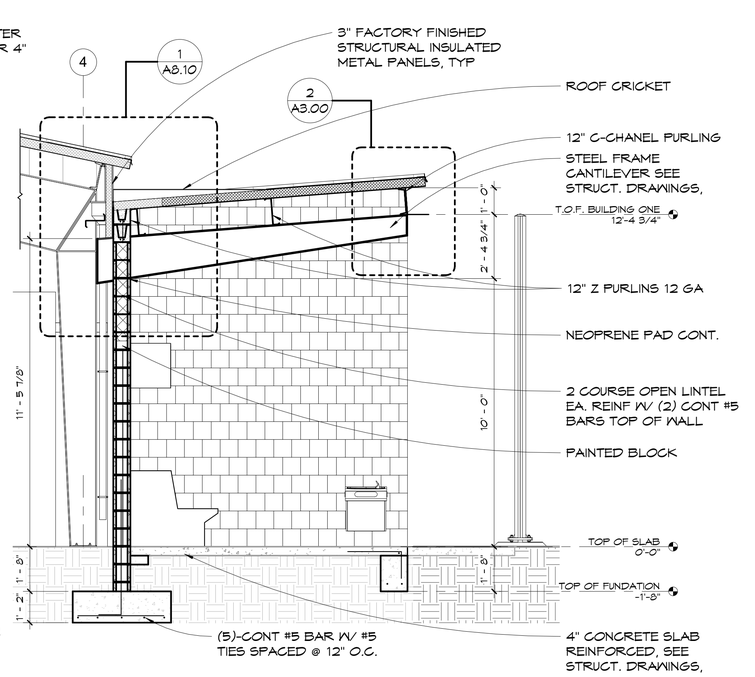


1 A3.00 **PEMB SECTION** 1/4" = 1'-0"

2 A3.00 **HOME DUGOUT ROOF DETAIL** 1 1/2" = 1'-0"



3 A3.00 **PEMB SECTION 2** 3/8" = 1'-0"



4 A3.00 **HOME DUGOUT SECTION** 3/8" = 1'-0"

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JOSEPH J. SOSA
AR0012728
05/18/17
REGISTERED ARCHITECT

RELEASE:

100% CONSTRUCTION DOCUMENTS

GCSC SOFTBALL COMPLEX

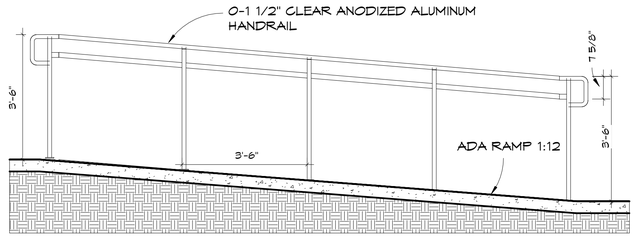
SCALE:	DATE:
As indicated	05/04/17
DRAWN: N. PETROV	CHECKED: R. DAVIS

NO.	REVISION:	DATE:

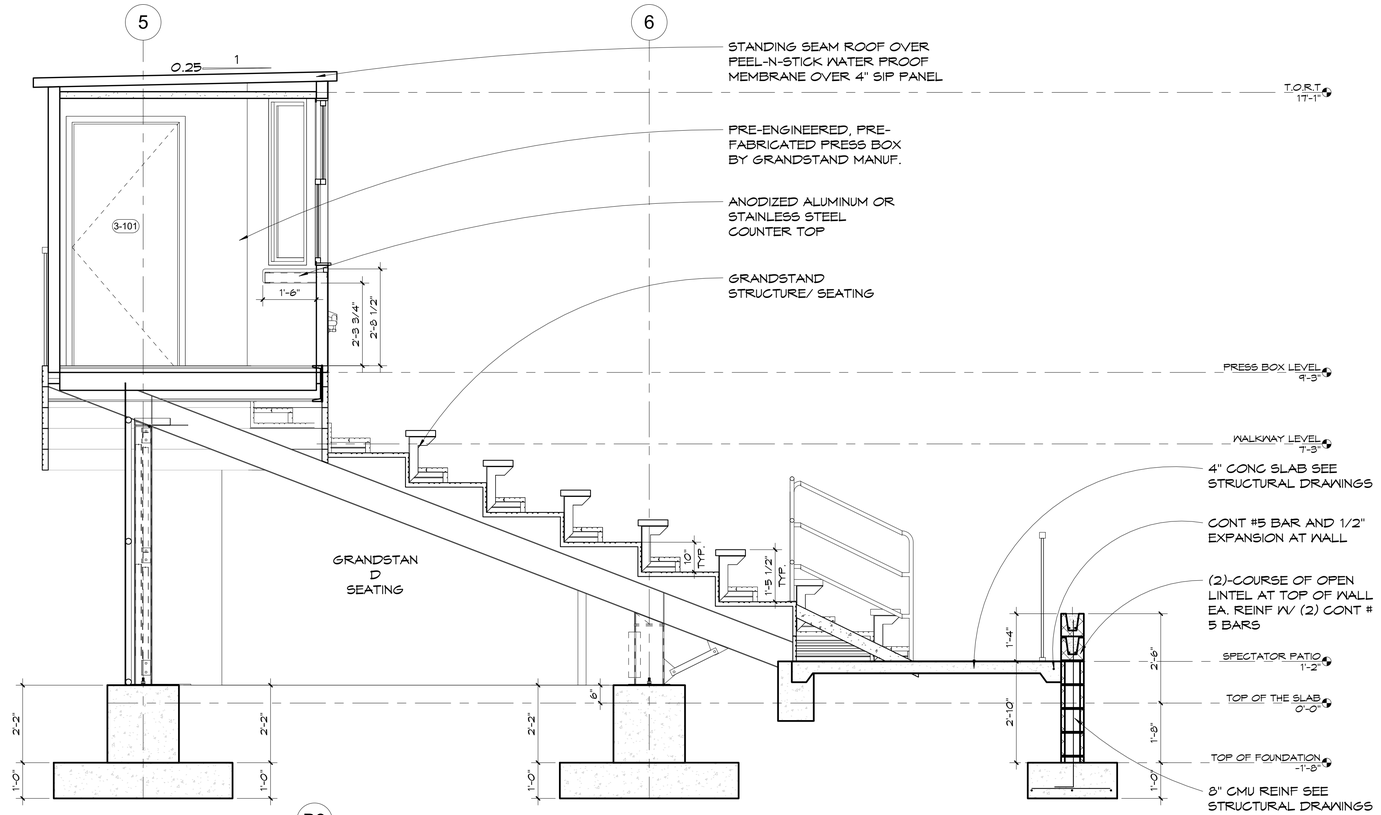
SHEET TITLE:

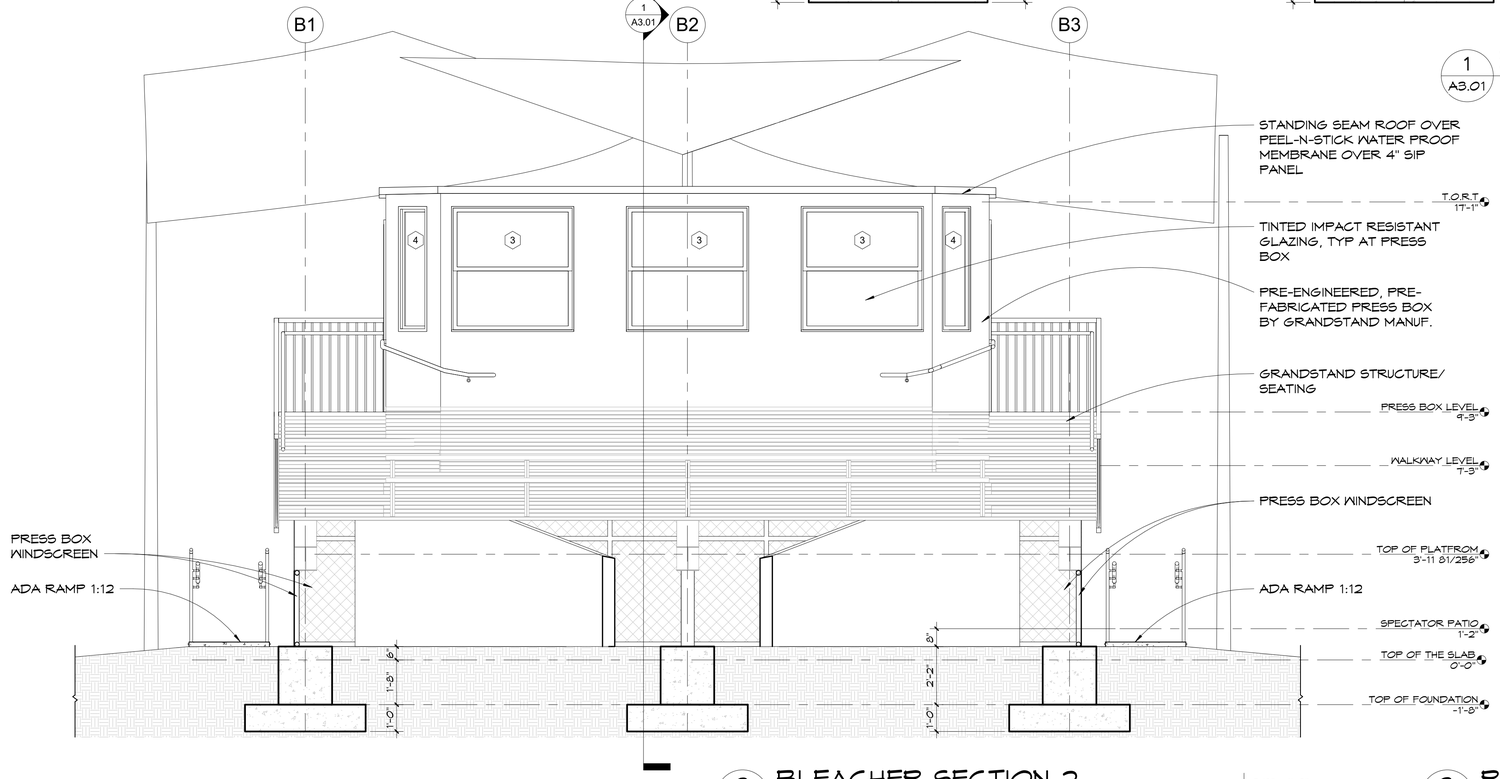
SECTIONS AND DETAILS

PROJECT NO.	SHEET
4228	A3.00



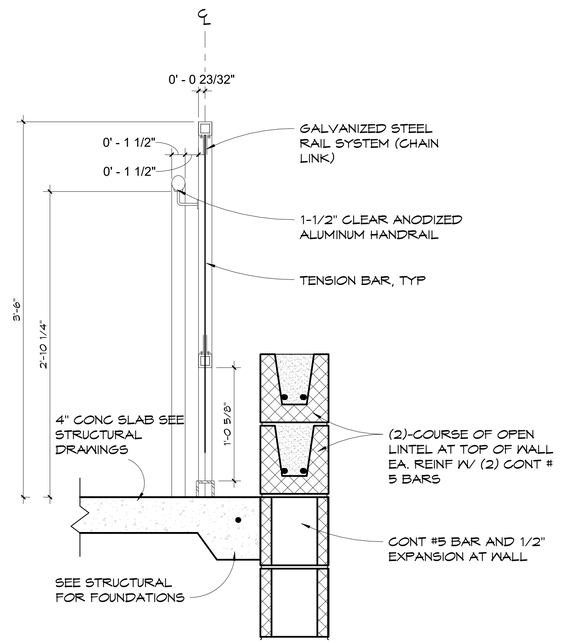
4 A3.0 **RAMP RAILING DETAIL** 1/2" = 1'-0"





2 A3.01 **BLEACHER SECTION 2** 3/8" = 1'-0"

1 A3.01 **BLEACHER SECTION** 1/2" = 1'-0"



3 A3.01 **RAILING DETAIL** 1 1/2" = 1'-0"

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PROJECT:

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RELEASE:

CONSTRUCTION DOCUMENTS

SCALE:	DATE:
As indicated	05/04/17
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NO.	REVISION:	DATE:

SHEET TITLE:

PRESS BOX SECTIONS

PROJECT NO.	SHEET
4228	A3.01

ROOM FIINISH SCHEDULE

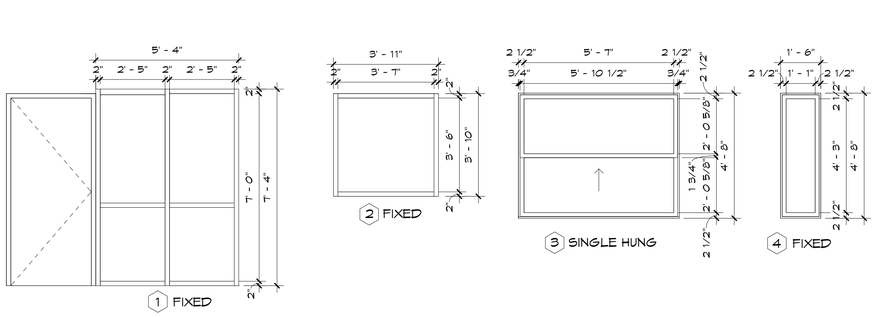
NUMBER	NAME	FLOOR FINISH	BASE FINISH	NORTH WALL MATERIAL	NORTH WALL FINISH	SOUTH WALL MATERIAL	SOUTH WALL FINISH	WEST WALL MATERIAL	WEST WALL FINISH	EAST WALL MATERIAL	EAST WALL FINISH	CEILING MATERIAL	CEILING FINISH	CEILING HEIGHT
1-100	VISITOR DUGOUT	SC	-	-	-	CMU	PT	CMU	PT	CMU	PT	EXP	PT	-
1-101	VISITOR STORAGE	SC	-	CMU	PT	CMU	PT	CMU	PT	-	-	EXP	PT	-
2-100	HOME DUGOUT	SC	-	CMU	PT	CMU	PT	CMU	PT	CMU	PT	EXP	PT	-
2-102	HOME STORAGE	SC	-	CMU	PT	CMU	PT	CMU	PT	CMU	PT	EXP	PT	-
2-103	VEST.	E	EE	CM	PT	CM	PT	CM	PT	CM	PT	VP	FF	9'
2-104	LOCKER ROOM	E	EE	CM	PT	CM	PT	CM	PT	CM	PT	VP	FF	9'
2-105	VESTIBULE	E	EE	CM	PT	CM	PT	CM	PT	CM	PT	VP	PT	9'
2-106	OFFICE	E	EE	GYP	PT	GYP	PT	GYP	PT	GYP	PT	VP	PT	9'
2-107	TLT.	E	EE	GYP	EP	GYP	PT	GYP	PT	GYP	PT	GYP	PT	9'
2-108	RESTROOM	E	EE	CM	EP	CM	PT	CM	PT	CM	PT	GYP	PT	9'
2-109	LAUNDRY	E	EE	GYP	EP	GYP	PT	GYP	PT	GYP	PT	VP	FF	9'
2-110	WOMEN RESTROOM	E	EE	CM	EP	CM	PT	CM	PT	CM	PT	GYP	PT	9'
2-111	MEN RESTROOM	E	EE	CM	EP	CM	PT	CM	PT	CM	PT	GYP	PT	9'
2-112	MEP	SC	VB	EXP	PT	EXP	PT	EXP	PT	EXP	PT	EXP	PT	-
4-100	PRESS BOX	RT	VB	PR	PR	PR	PR	PR	PR	PR	PR	VP	PT	8'

DOOR SCHEDULE

Mark	WIDTH	HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	GLAZING TYPE
2-100	3' - 0"	7' - 0"	A	HM	PT	1	HM	PT	-
2-105	3' - 0"	7' - 0"	A	HM	PT	1	HM	PT	-
2-103.1	3' - 0"	7' - 0"	A	HM	PT	1	HM	PT	-
2-110	3' - 0"	7' - 0"	A	HM	PT	1	HM	PT	-
2-111	3' - 0"	7' - 0"	A	HM	PT	1	HM	PT	TG
2-112	3' - 0"	7' - 0"	C	HM	PT	2	HM	PT	-
2-109	3' - 0"	7' - 0"	B	HM	PT	1	HM	PT	-
2-106	3' - 0"	7' - 0"	A	AL	FF	1	AL	PT	-
2-107	3' - 0"	7' - 0"	A	HM	PT	1	HM	PT	-
2-111.1	3' - 0"	7' - 0"	A	HM	PT	1	HM	PT	-
2-103	3' - 0"	7' - 0"	A	HM	PT	1	HM	PT	-
1-101	3' - 0"	7' - 0"	A	HM	PT	1	HM	PT	-
2-102	3' - 0"	7' - 0"	A	HM	PT	1	HM	PT	-
2-108	3' - 0"	7' - 0"	A	HM	PT	1	HM	PT	-
2-105.1	3' - 0"	7' - 0"	A	HM	PT	1	HM	PT	-
2-110.1	3' - 0"	7' - 0"	A	HM	PT	1	HM	PT	-
3-100	3' - 0"	7' - 0"	A	HM	PT	1	HM	PT	-
3-101	3' - 0"	7' - 0"	A	HM	PT	1	HM	PT	-

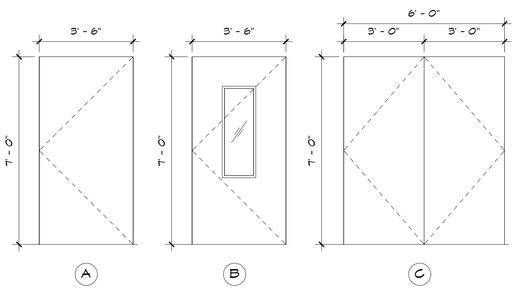
WINDOW SCHEDULE

MARK	QTY	SILL HEIGHT	WINDOW TYPE	FRAME MATERIAL	GLAZING TYPE
1	1	FINISH FLOOR	FIXED	HM	TG
2	1	3' - 4"	STOREFRONT	AN	IT
3	2	3' - 0"	SINGLE HUNG	AL	TH
4	2	3' - 0"	FIXED	AL	TH

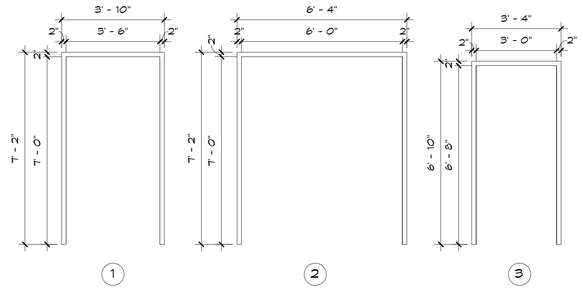


WINDOWS TYPES

WINDOWS TYPES PRESS BOX



DOOR TYPES



FRAME TYPES

ROOM FINISH SCHEDULE (CODE LEGEND)

FLOOR FINISH MATERIAL CODES

E = TROWELED SEAMLESS POLYMER EPOXY FLOORING
VT = VINYL TILE FLOORING
SC = SEALED CONCRETE
RT= RESILIENT TILE

BASE MATERIAL CODES

EE = SEAMLESS POLYMER INTEGRAL 6" COVE BASE
VB - 6" VINYL BASE

WALL MATERIAL CODES
GYP = 5/8" GYPSUM BOARD
CM= CEMENT BOARD PAINTED PLASTER VENEER
CMU = CONCRETE MASONRY UNIT
EXP = EXPOSED STRUCTURE
PR= PRE-ENGINEERED, PRE- FABRICATED PRESS BOX BY GRANDSTAND MANUF.

WALL FINISH CODES

PT = SEMI GLOSS PAINT
EP = IMPERVIOUS EPOXY PAINT

CEILING MATERIAL CODES

EXP = EXPOSED STRUCTURE
VP = 2X2 ACOUSTICAL TILE MOISTURE RESISTANT
GYP = GYP. BOARD WATER RESISTANT

CEILING FINISH CODES

FF = FACTORY FINISH
PT = SEMI GLOSS PAINT

DOOR SCHEDULE NOTES LEGEND:

DOOR MATERIAL

H.M. = HOLLOW METAL DOOR
AL = ALUMINUM DOOR
WD = WOOD DOOR

DOOR FINISHES

PT = SEMI GLOSS PAINTED
FF = FACTORY FINISH

FRAME MATERIAL

ALU = ALUMINUM
H.M. = HOLLOW METAL
WD = WOOD

FRAME FINISHES

P = PAINTED
FF = FACTORY FINISH

GLAZING TYPE

TG- 1/4 " TEMPERED GLASS

WINDOW SCHEDULE NOTES LEGEND:

FRAME MATERIAL

AN = FIXED BRONZE ANODIZED ALUMINUM FINISH STOREFRONT
HM = HOLLOW METAL

GLAZING TYPE

TC = 1/4" TEMPERED CLEAR GLASS
IT = 9/16" INSULATED TINTED HURRICANE RESISTANT GLAZING
TH = 9/16" TINTED HURRICANE RESISTANT GLAZING

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PROJECT:

GCSC SOFTBALL COMPLEX

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GCSC SOFTBALL COMPLEX

SCALE:	DATE:
As indicated	05/04/17
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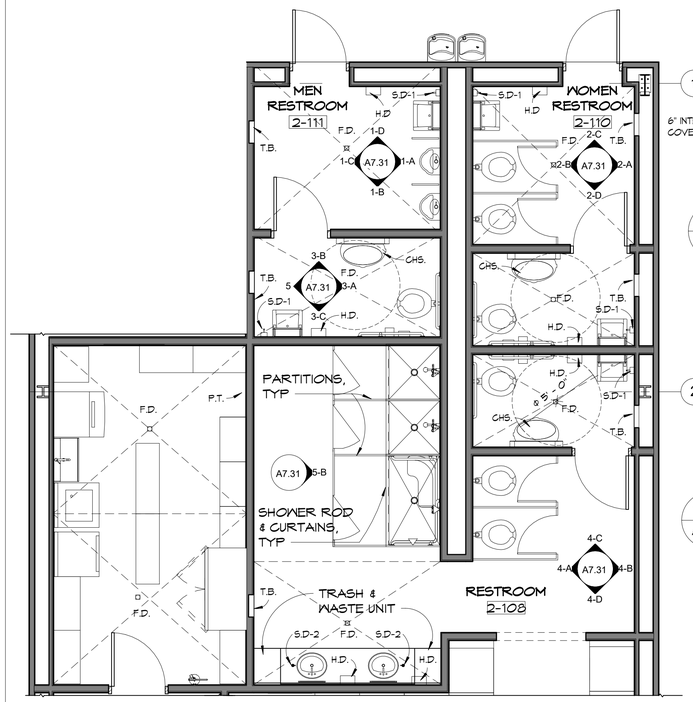
NO.	REVISION:	DATE:

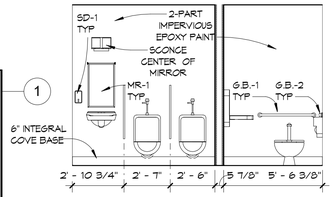
SHEET TITLE:

FINISH SCHEDULE

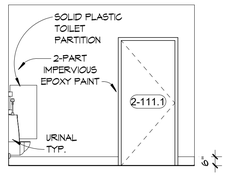
PROJECT NO.	SHEET
4228	A4.00



2 RESTROOM FLOOR PLAN
A7.31 | 1/4" = 1'-0"

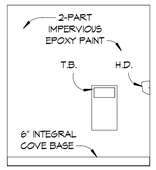


1 INTERIOR ELEVATION
A7.31 | 1/4" = 1'-0"

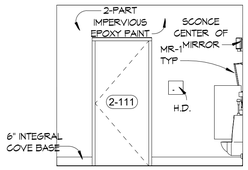


1-A INTERIOR ELEVATION
A7.31 | 1/4" = 1'-0"

1-B INTERIOR ELEVATION
A7.31 | 1/4" = 1'-0"

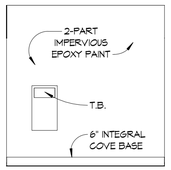


2 INTERIOR ELEVATION
A7.31 | 1/4" = 1'-0"

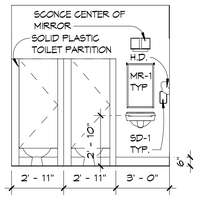


1-C INTERIOR ELEVATION
A7.31 | 1/4" = 1'-0"

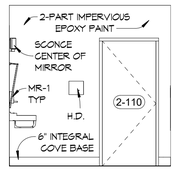
1-D INTERIOR ELEVATION
A7.31 | 1/4" = 1'-0"



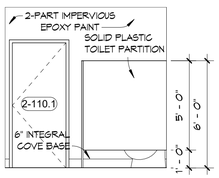
2-A INTERIOR ELEVATION
A7.31 | 1/4" = 1'-0"



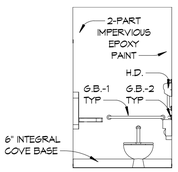
2-B INTERIOR ELEVATION
A7.31 | 1/4" = 1'-0"



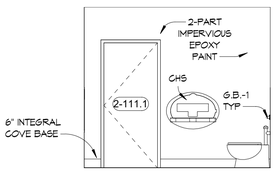
2-C INTERIOR ELEVATION
A7.31 | 1/4" = 1'-0"



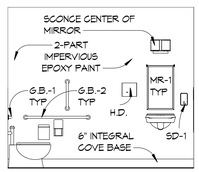
2-D INTERIOR ELEVATION
A7.31 | 1/4" = 1'-0"



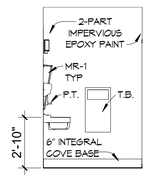
3-A INTERIOR ELEVATION
A7.31 | 1/4" = 1'-0"



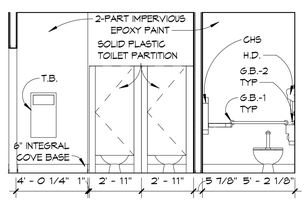
3-B INTERIOR ELEVATION
A7.31 | 1/4" = 1'-0"



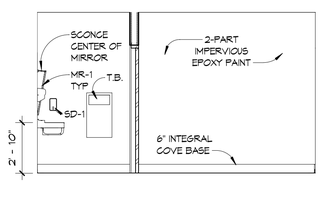
3-C INTERIOR ELEVATION
A7.31 | 1/4" = 1'-0"



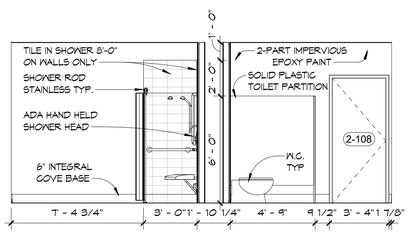
3-D INTERIOR ELEVATION
A7.31 | 1/4" = 1'-0"



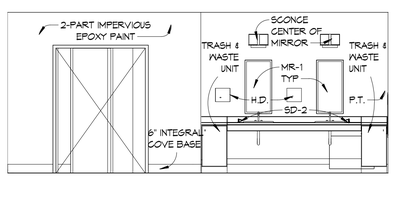
4-A INTERIOR ELEVATION
A7.31 | 1/4" = 1'-0"



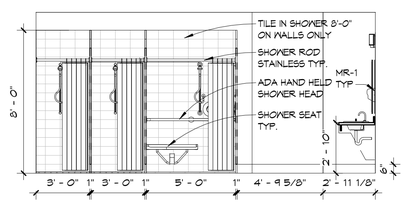
4-B INTERIOR ELEVATION
A7.31 | 1/4" = 1'-0"



4-C INTERIOR ELEVATION
A7.31 | 1/4" = 1'-0"

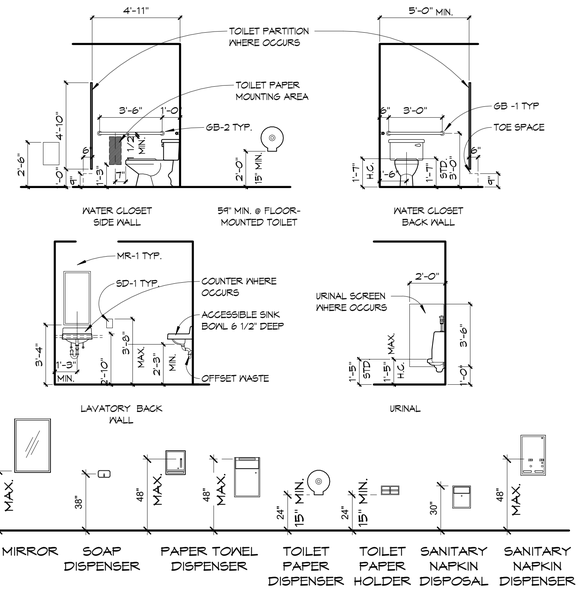


4-D INTERIOR ELEVATION
A7.31 | 1/4" = 1'-0"



5-B INTERIOR ELEVATION
A7.31 | 1/4" = 1'-0"

TYPICAL PLUMBING FIXTURES AND ACCESSORIES MOUNTING HEIGHTS



TYPICAL TOILET ACCESSORIES MOUNTING HEIGHTS

LEGEND:

GRAB BARS
GB-1 GRAB BAR: 36" ADA COMPLIANT
GB-2 GRAB BAR: 42" ADA COMPLIANT

MIRRORS
MR-1 STAINLESS STEEL MIRROR ADA COMPLIANT (REFER TO SPECS)

SANITARY NAPKIN DISPOSALS
SN-1 SANITARY NAPKIN DISPOSAL (REFER TO SPECS)

SOAP DISPENSERS
SD-1 WALL MOUNT SOAP DISPENSER - (REFER TO SPECS)
SD-2 PUMP SOAP DISPENSER

HAND DRYER
H.D - HAND DRYER STEEL STAIN CHROME
T.B.- RECEESED TRUSH BIN

CHANGING STATION
CHS - WALL MOUNT CHANGING STATION (TABLE)

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203 ABERDEEN PKWY, PANAMA CITY, FL 32405
(850) 522-0644

CONSULTANTS:
FLA FLORIDA ARCHITECTS
LICENSE #AA0002730

GULF COAST STATE COLLEGE
SINCE 1957

CLIENT:
GULF COAST STATE COLLEGE
5230 US-98
PANAMA CITY, FLORIDA 32401
850.169.1551
gulfcoast.edu

PROJECT:
GCSC SOFTBALL COMPLEX
ITB # 6- 2016/2017

STATE OF FLORIDA
JOSEPH J. PORTER
AR0012228
05/18/17
REGISTERED ARCHITECT

RELEASE:
100% CONSTRUCTION DOCUMENTS
GCSC SOFTBALL COMPLEX

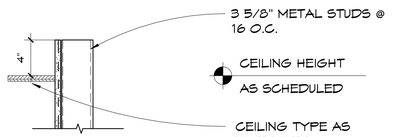
SCALE: 1/4" = 1'-0"
DATE: 05/04/2017
DRAWN: N. PETROV
CHECKED: R. DAVIS

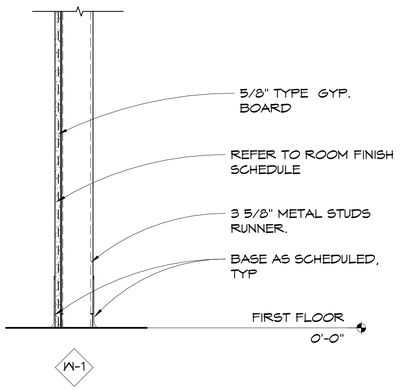
NO.	REVISION:	DATE:

SHEET TITLE:
RESTROOMS INTERIOR ELEV.

PROJECT NO. 4228
SHEET A7.31

WALL TYPES





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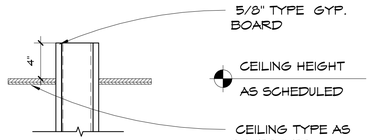

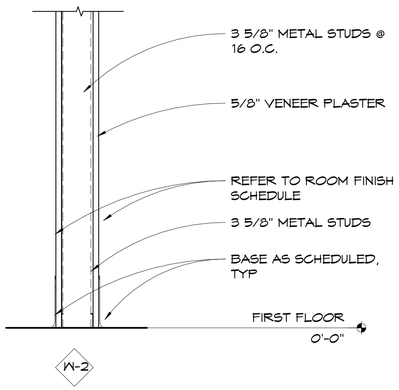

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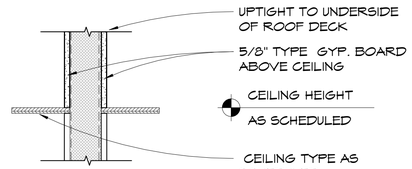

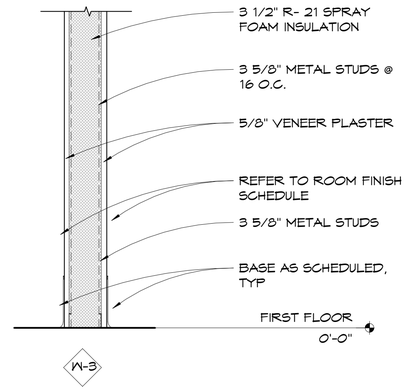

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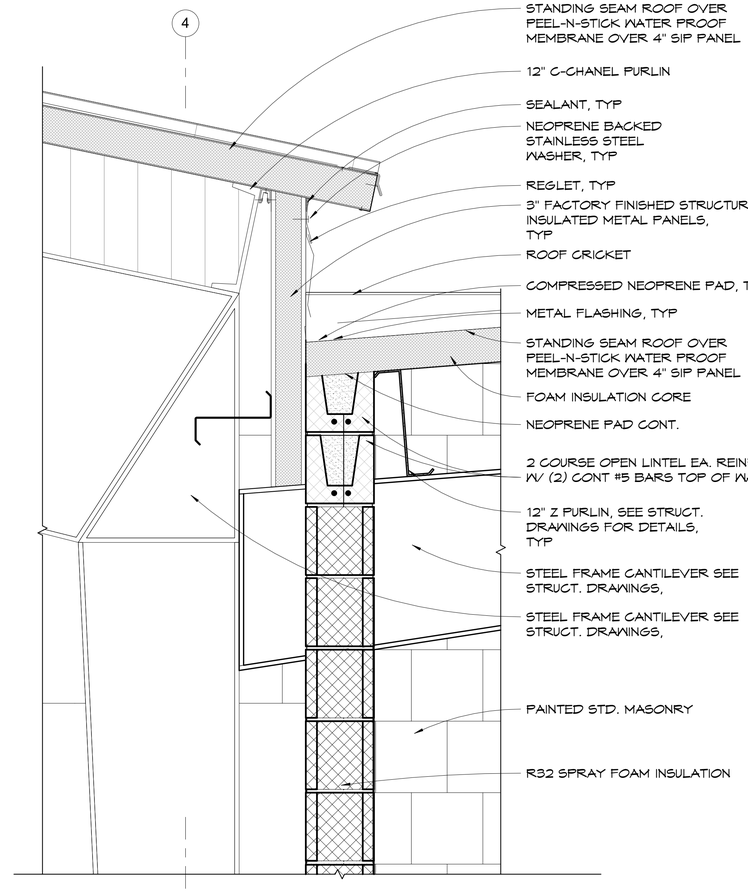
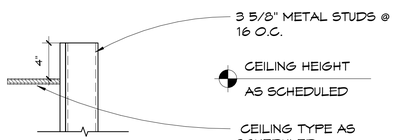
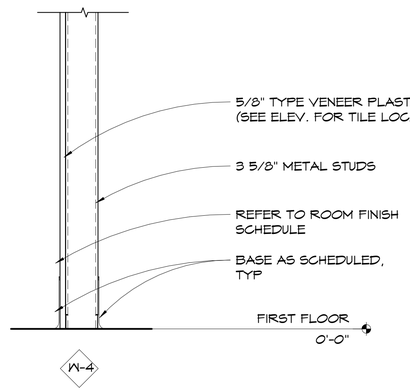


1 / A8.10 HOME DUGOUT ROOF DETAIL 1 1/2" = 1'-0"





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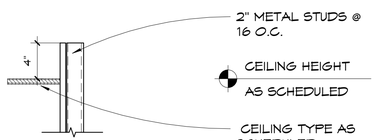

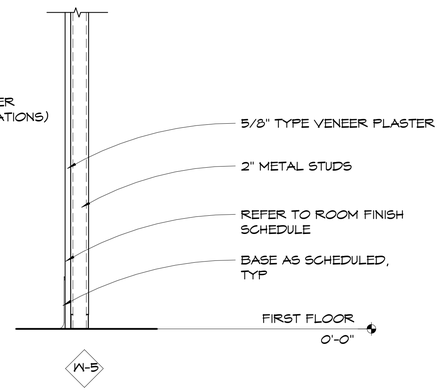

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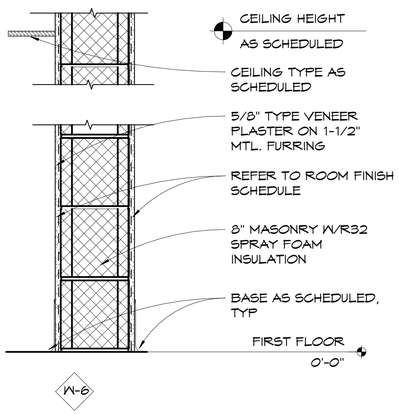

W-6

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CLIENT:

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PROJECT:

GCSC SOFTBALL COMPLEX

ITB # 6- 2016/2017

STATE OF FLORIDA JOSEPH J. PORTER AR0012728 05/18/17 REGISTERED ARCHITECT

RELEASE:

100% CONSTRUCTION DOCUMENTS

GCSC SOFTBALL COMPLEX

SCALE:	DATE:
1 1/2" = 1'-0"	05/04/2017
DRAWN: N. PETROV	CHECKED: R. DAVIS

NO.	REVISION:	DATE:

SHEET TITLE:

WALL TYPES/DETAILS

PROJECT NO.	SHEET
4228	A8.10

00.00 GENERAL

00.01 ALL CONSTRUCTION SHALL CONFORM TO THE FLORIDA BUILDING CODE, 2014 EDITION. REFERENCE TO OTHER CODES OR STANDARD SPECIFICATIONS REFER TO THE LATEST EDITION OF SUCH CODES OR SPECIFICATIONS, UNLESS STATED OTHERWISE.

00.02 THE CONTRACTOR SHALL COORDINATE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL WORKS DOCUMENTS WITH THE STRUCTURAL CONTRACT DOCUMENTS. NOTIFICATION SHALL BE MADE TO THE STRUCTURAL ENGINEER AND ARCHITECT OF ANY CONFLICT AND/OR OMISSIONS.

00.03 THE DRAWINGS SHOWN ARE FOR TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. PROVIDE DETAILS SIMILAR TO THOSE SHOWN FOR DETAILS THAT ARE NOT SPECIFICALLY SHOWN.

00.04 INFORMATION LISTED IN CALL-OUTS AND PLAN SCHEDULES ON S-100 SHEETS, AND SHOWN ON SPECIFIC SECTIONS AND DETAILS ON S-300 AND S-500 SHEETS RESPECTIVELY, GOVERN OVER INFORMATION LISTED ON THE THIS SHEET, S-001. CONFLICTS AND CONTRADICTIONS SHOULD BE BROUGHT TO THE E.O.R.'S ATTENTION FOR CLARIFICATION PRIOR TO CONSTRUCTION PER NOTE 00.06.

00.05 FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS, SEE THE ARCHITECTURAL DRAWINGS.

00.06 THE CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS, DIMENSIONS, AND ELEVATIONS PRIOR TO STARTING WORK. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES IN EXISTING SITE CONDITIONS, DIMENSIONS, OR ELEVATIONS TO THOSE SHOWN IN THE STRUCTURAL CONTRACT DOCUMENTS.

00.07 THE REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE STRUCTURAL ENGINEER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR ALSO SHALL BE RESPONSIBLE FOR MEANS, METHOD, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.

00.08 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, AND ERECTION OF SAFE AND ADEQUATE BRACING, SHORING, TEMPORARY SUPPORTS, ETC. REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION.

00.09 IN NO CASE SHALL STRUCTURAL ALTERATIONS OR WORK AFFECTING A STRUCTURAL MEMBER BE MADE, UNLESS APPROVED BY ANDERSON ENGINEERS, P.A. IN WRITING.

10.00 STRUCTURAL LOADS

10.01 SUPERIMPOSED DEAD LOADS:
DEAD LOADS SHALL BE TAKEN AS THE ACTUAL WEIGHTS OF MATERIALS AND CONSTRUCTIONS OR OTHERWISE SATISFACTORY VALUES DESCRIBED IN THE F.B.C.

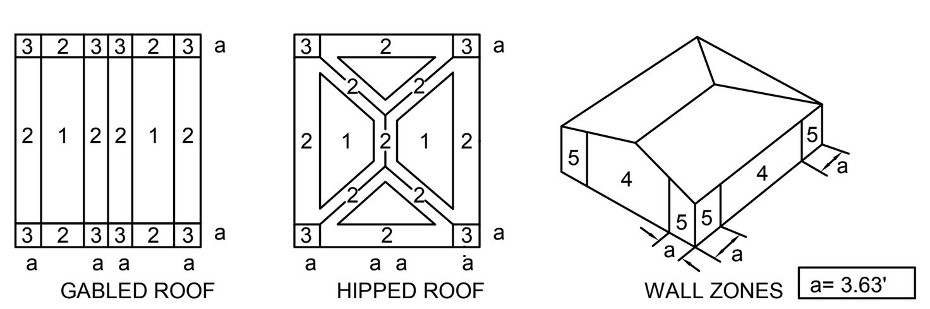
- PARTITIONS	20 PSF

10.02 SUPERIMPOSED LIVE LOADS:

- ROOF	20 PSF
- ATTICS WITHOUT STORAGE	10 PSF
- ATTICS WITH LIMITED STORAGE	20 PSF
- ATTICS W/ FIXED STAIRS	30 PSF
- BALCONIES AND DECKS	40 PSF
- BLEACHERS	100 PSF
- GUARDRAILS & HANDRAILS	50 PLF (200#)
- PRIVATE ROOMS/CORRIDOR	40 PSF
- PUBLIC ROOMS/CORRIDOR	100 PSF
- STAIRS	100 PSF (300#)
- WALKWAYS AND ELEVATED PLATFORM	60 PSF

10.03 WIND LOADS (PER ASCE 7-10):
FORTIFIED DESIGN WIND SPEED = 134 MPH (INTERPOLATED ASCE 7-10 VALUE)
STRUCTURAL CATEGORY = II
WIND EXPOSURE CATEGORY = B
INTERNAL PRESSURE COEFFICIENT = 0.18 +/-

COMPONENTS & CLADDING (PER ASD)			
COMPONENT	ZONE	DESIGN PRESSURE (PSF)	
		+GCpi	-GCpi
ROOF	1	11.17	17.74
	2	11.17	30.88
	3	11.17	45.66
	2H	9.60	36.13
	3H	9.60	60.77
WALLS	4	19.38	21.02
	5	19.38	25.95



COMPONENTS & CLADDING PRESSURES (ALLOWABLE STRESS DESIGN):

ALL COMPONENTS TO BE ZONE 4 UNLESS OVER HALF OF THE COMPONENT WIDTH FALLS WITHIN "a" ZONE MEASURED FROM THE EXTERIOR CORNERS OF THE BUILDING.

WINDOWS (ZONE 4):	DP +20 / -25 PSF
WINDOWS (ZONE 5):	DP +20 / -30 PSF
DOORS (ZONE 4):	DP +20 / -20 PSF
DOORS (ZONE 5):	DP +20 / -25 PSF

ALL EXTERIOR GLAZED OPENINGS SHALL BE PROTECTED FROM WIND-BORNE DEBRIS AS PER SECTION 1609.1.2 OF THE 2014 FLORIDA BUILDING CODE.

10.04 FLOOD DESIGN DATA: FLOOD ZONE X

20.00 FOUNDATIONS AND SLAB-ON-GRADE

20.01 THE DESIGN OF FOUNDATIONS AND SLAB-ON-GRADE IS BASED ON AN ASSUMED MINIMUM BEARING CAPACITY OF 1,500 PSF. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IF QUESTIONABLE SOIL CONDITIONS ARE ENCOUNTERED.

20.02 THE AREA UNDER FOOTINGS, FOUNDATIONS, AND CONCRETE SLABS-ON-GRADE SHALL HAVE ALL VEGETATION, STUMPS, ROOTS, AND FOREIGN MATERIALS REMOVED PRIOR TO THEIR CONSTRUCTION.

20.03 FILL MATERIALS SHOULD BE RELATIVELY CLEAN SANDS, SIMILAR TO THE EXISTING ON-SITE SOILS, WITH LESS THAN 12 PERCENT FINES (MATERIAL PASSING THE NO. 200 SIEVE), AND FREE OF NON-SOIL MATERIALS, CONSTRUCTION DEBRIS, ROCK FRAGMENTS LARGER THAN 3 INCHES IN DIAMETER AND ANY OTHER FOREIGN MATERIAL. FILL MATERIALS THAT CONTAIN ORGANIC DEBRIS ARE NOT SUITABLE FOR REUSE AS STRUCTURAL FILL.

20.04 FILL SHOULD BE PLACED IN THIN, HORIZONTAL LOOSE LIFTS (MAXIMUM 12-INCH) AND COMPACTED TO AT LEAST 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557). FILL MATERIALS USED IN STRUCTURAL AREAS SHOULD HAVE A TARGET MAXIMUM DRY DENSITY OF 95 PCF OR GREATER.

20.05 FINISH GRADE SHALL BE SLOPED AWAY FROM THE FOUNDATION FOR DRAINAGE.

20.06 THE CONTRACTOR SHALL INVESTIGATE ACTUAL LOCATIONS OF UNDERGROUND LINES AND UTILITIES BEFORE EXCAVATING. ALL EXCAVATIONS NEAR THESE LINES SHALL BE CARRIED OUT WITH EXTREME CAUTION.

30.00 MAT SLABS AND GRADE BEAMS

30.01 CONCRETE SHALL BE MIN. 28 DAY STRENGTH OF 3000 PSI, UNLESS NOTED OTHERWISE, WITH A MAXIMUM WATER TO CEMENT RATIO OF 0.4. MAXIMUM AGGREGATE SIZE SHALL BE 3/4" INCH IN DIAMETER AND SHALL CONFORM TO ASTM C33.

30.02 CONCRETE SHALL BE PLACED, FINISHED AND CURED IN ACCORDANCE TO ACI 318 AND THE PORTLAND CEMENT ASSOCIATION'S DESIGN AND CONTROL OF CONCRETE MIXTURES.

30.03 A MINIMUM OF ONE 28 DAY COMPRESSIVE TEST PER ASTM C39 SHALL BE PERFORMED FOR EACH BATCH OF CONCRETE DELIVERED TO THE SITE.

30.04 REINFORCEMENT SHALL CONSIST OF GRADE 60 STEEL CONFORMING TO ASTM A615. PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE. USE TENSION SPLICE CLASS "B". STAGGER SPLICES WHERE POSSIBLE.

30.05 CLEAR CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES (3") UNLESS OTHERWISE NOTED. CLEAR COVER MAY BE REDUCED TO (2") IN GRADE BEAMS IF FORMWORK IS USED IN PLACE OF EXCAVATED METHOD. DO NOT WELD TRACK WELD REINFORCING STEEL UNLESS APPROVED BY ENGINEER.

30.06 TIE ALL REINFORCING STEEL AND EMBEDMENT SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF REINFORCEMENT WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES.

30.07 ALL STRUCTURAL STEEL PLACEMENT SHALL BE INSPECTED BY THE REGISTERED PROFESSIONAL ENGINEER.

30.08 SHOP DRAWINGS SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCING STEEL SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

30.09 DETAIL CONCRETE REINFORCEMENT AND ACCESSORIES IN ACCORDANCE WITH ACI 315-80 DETAILING MANUAL AND F.A.C. 61G15-30.002 (8). SUBMIT SHOP DRAWINGS FOR APPROVAL, SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCEMENT STEEL AND ACCESSORIES. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED.

40.00 CONCRETE AND REINFORCING STEEL

40.01 CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF ACI 318.

40.02 ALL CONCRETE SHALL BE NORMAL WEIGHT AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI FOR FIRST FLOOR SLABS AND FOOTINGS WITH 4,000 PSI IN BEAMS & COLUMNS.

40.03 NOMINAL MAXIMUM SIZE OF COARSE AGGREGATE SHALL NOT BE LARGER THAN: 1/5 THE NARROWEST DIMENSION BETWEEN SIDES OF FORMS, 1/3 THE DEPTH OF SLABS, NOR 3/4 THE MINIMUM CLEAR SPACING BETWEEN INDIVIDUAL REINFORCING BARS OR WIRES.

40.04 THE MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE OWNERS TESTING LABORATORY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR OBTAINING THE REQUIRED DESIGN STRENGTH.

40.05 CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS ARE NOT PERMITTED TO BE USED IN CONCRETE.

40.06 CONCRETE (OTHER THAN HIGH-EARLY-STRENGTH) SHALL BE MAINTAINED ABOVE 50°F (10°C) AND IN A MOIST CONDITION FOR AT LEAST THE FIRST 7 DAYS AFTER PLACEMENT, EXCEPT WHEN CURED IN ACCORDANCE WITH FLORIDA BUILDING CODE SECTION 1906.5.3 SPECIFICATION ON ACCELERATED CURING.

40.07 ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND ALL REINFORCEMENT, FORMS, FILLERS, AND GROUND IN WHICH CONCRETE IS TO COME INTO CONTACT DURING FREEZING OR NEAR-FREEZING WEATHER.

40.08 ALL REINFORCING STEEL PLACEMENT SHALL BE REVIEWED BY A REGISTERED STRUCTURAL ENGINEER OR BY THEIR REPRESENTATIVE.

40.09 ALL REINFORCEMENT SHALL BE BENT COLD, UNLESS OTHERWISE APPROVED BY THE E.O.R.

40.10 SHOP DRAWINGS SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCING STEEL IN MAT SLABS, CAST-IN-PLACE WALLS, AND STRUCTURAL SLABS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

40.11 ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS FOR REINFORCED CONCRETE, "ACI 318-02" AND THE "MANUALS OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315 (LATEST EDITION).

40.12 REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED.

40.13 WELDED WIRE FABRIC (MESH) SHALL CONFORM TO ASTM A185.

40.14 ALL WELDED WIRE FABRIC SHALL BE LAPPED MIN. ONE FULL MESH PANEL PLUS 2" AT SIDES AND ENDS AND SHALL BE WIRED TOGETHER

40.15 ALL REINFORCING STEEL AND EMBEDMENTS SHALL BE SECURELY TIED AND SUFFICIENTLY SUPPORTED TO MAINTAIN THE POSITION WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES.

40.16 CONTINUOUS REINFORCEMENT SHALL BE PROVIDED WHEREVER POSSIBLE. REINFORCEMENT SHALL BE
SPLICED ONLY AS SHOWN OR NOTED IN THE STRUCTURAL CONTRACT DOCUMENTS.

40.17 CLEAR CONCRETE COVER FOR REINFORCEMENT SHALL BE:

- BEAMS AND COLUMNS:	EXPOSED TO WEATHER	2"
	NO EXPOSURE TO WEATHER	1-1/2"
- SLABS:	IN CONTACT WITH EARTH	3"
	EXPOSED TO WEATHER	1-1/2"
	NO EXPOSURE TO WEATHER	3/4"

40.18 REINFORCING STEEL SHALL NOT BE WELDED OR TACK WELDED UNLESS APPROVED BY THE STRUCTURAL ENGINEER.

40.19 ALL STEEL REINFORCING AND WELD WIRE MESH USED IN SLAB-ON-GRADE CONSTRUCTION IS REQUIRED TO BE SUPPORTED IN THE CENTER TO UPPER ONE THIRD OF THE SLAB.

40.20 WEATHER CONDITIONS SHALL NOT BE ACCEPTED AS A VALID REASON FOR INCORRECT OR OTHERWISE POOR QUALITY OF CONCRETE OR CONCRETE SURFACES.

40.21 ALL SHORING SHOULD REMAIN IN PLACE UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS 28-DAY COMPRESSIVE STRENGTH. SHORING SHOULD BE LEFT 28 DAYS WITHOUT TESTING A CYLINDER TO CONFIRM STRENGTH. IT IS NOT ADVISABLE TO REMOVE SHORING WITHOUT A TEST FOR 21 DAYS UNDER ANY CIRCUMSTANCE.

50.00 MASONRY

50.01 DESIGN, MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE FLORIDA BUILDING CODE AND "BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES" OF ACI 530.1-02 / ASCE 6-02.

50.02 CONCRETE BLOCKS USED FOR FIRE-RESISTIVE WALLS RATED 2 HOURS OR MORE, OR USED FOR LOAD-BEARING OR EXTERIOR WALLS, SHALL HAVE A MINIMUM FACE SHELL THICKNESS OF 1-1/4", A MINIMUM WEB THICKNESS OF 1", AND SHALL HAVE A NET CROSS-SECTIONAL AREA NOT LESS THAN 50 PERCENT OF THE GROSS SECTION WITH F'M= 1500 PSI.

50.03 STANDARD UNITS OF HOLLOW CONCRETE BLOCK SHALL CONFORM TO THE "STANDARD SPECIFICATION FOR HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS," ASTM C 90, EXCEPT THAT THE MAXIMUM MOISTURE CONTENT SHALL NOT EXCEED 50 PERCENT OF THE TOTAL ABSORPTION.

50.04 ALL MORTARS AND THE MATERIALS THEREIN SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR MORTAR OF MASONRY UNITS," ASTM C 270.

50.05 GROUT TO BE 3000 PSI AND SHALL BE IN ACCORDANCE WITH ASTM C476, STANDARD SPECIFICATION. COURSE GROUT MAY ONLY BE USED WITH 8" AND 12" CMU.

50.06 WHEN MIXING GROUT FOR MASONRY, A SLUMP TEST IS REQUIRED FOR EACH BATCH TO ENSURE EACH MEETS THE 8" TO 11" SLUMP REQUIRED.

50.07 EXTERIOR WALLS OF UNIT MASONRY SHALL HAVE A MINIMUM THICKNESS OF 8"; HOWEVER, AS PER FLORIDA BUILDING CODE HOLLOW CONCRETE BLOCK UNITS MAY BE 7-5/8" X 7-5/8" X 15-5/8" MODULAR DIMENSION.

50.08 FILL ALL BLOCK CELLS WITH CONCRETE FROM THE TOP OF FOOTINGS TO THE FINISH FLOOR ELEVATION EXCEPT AS INDICATED OTHERWISE.

50.09 ALL CONCRETE MASONRY UNIT REINFORCING STEEL BARS SHALL BE CONTINUOUS WITH LAP SPLICES OF A LEAST 48 BAR DIAMETERS, BUT NOT LESS THAN 12".

50.10 ALL VERTICAL REINFORCING IN CMU WALLS SHALL BE ANCHORED TO THE FOUNDATION OR BEAM/LINTEL UPON WHICH THE WALL RESTS AND TO THE TIE BEAM OR TOP BOND BEAM COURSE AT THE TOP OF WALL WITH ACI STANDARD HOOKS. RUN CONTINUOUS THROUGH ALL INTERMEDIATE WALL BOND BEAMS.

50.11 ALL OPENINGS IN CONCRETE MASONRY UNIT WALLS SHALL BE REINFORCED ON EACH SIDE, TOP, AND BOTTOM. OPENINGS BETWEEN 4' AND 8' IN WIDTH SHALL BE REINFORCED WITH A MINIMUM OF ONE #5 BAR. OPENINGS EXCEEDING 8' IN WIDTH SHALL BE PROVIDED WITH TIE COLUMNS ON EACH SIDE.

50.12 TIE COLUMNS SHALL BE REINFORCED WITH NOT LESS THAN 4-#5 VERTICAL BARS FOR 8"X12" COLUMNS NOR LESS THAN 4-#6 VERTICAL BARS FOR 8"X16" AND 12"X12" COLUMNS WITH #3 HOOP TIES @ 12" O.C. UNLESS NOTED OTHERWISE ON PLANS.

50.13 AT A MINIMUM: PRE-CAST 8F8 LINTELS WITH (1)#5 BAR IN BOTTOM SHALL BE PLACED OVER OPENINGS UP TO 3' WIDE. PRE-CAST 8F16 LINTELS WITH (1)#5 BAR IN BOTTOM SHALL BE PLACED OVER OPENINGS 3' TO 6' WIDE. SEE PLANS FOR OPENINGS GREATER THAN 6'.

50.14 ALL LINTEL REINFORCING SHALL EXTEND 15" PAST THE EDGE OF THE OPENING AND SHALL BE BENT AND EXTENDED 8" WHERE STRAIGHT EXTENSIONS ARE NOT POSSIBLE.

50.15 CONTINUOUS CAST IN PLACE CONCRETE TIE BEAMS SHALL BE PLACED AT EACH FLOOR OR ROOF LEVEL AND AT INTERMEDIATE LEVELS NOT TO EXCEED 24 COURSES (16'-0").

50.16 TIE BEAMS SHALL BE 8" WIDE AND 16" DEEP AND SHALL BE REINFORCED WITH NOT LESS THAN (2)#5 BARS AT THE TOP AND (2)#5 BARS AT THE BOTTOM. REINF. BEAM W/ (4)#3 TIES AT 12" O.C. EACH SIDE OF BENDS & CORNERS, THEREAFTER REMAINDER OF TIES SHALL BE #3 BARS SPACED AT 24" O.C. UNLESS OTHERWISE NOTED.

50.17 CAST TIE BEAMS MAY BE SUBSTITUTED WITH (2) COURSES OF OPEN BOTTOM BOND BEAM BLOCK EACH REINFORCED WITH (2) CONTINUOUS #5 BARS.

50.18 BOND BEAM COURSES SHALL BE PLACED AT EACH FLOOR OR ROOF LEVEL AND AT INTERMEDIATE LEVELS NOT TO EXCEED 20 COURSES (13'-4") FOR BEARING WALLS, 36 COURSES (24'-0") FOR INTERIOR NON-BEARING WALLS, AND 18 COURSES (12'-0") FOR ALL OTHERS INCLUDING EXTERIOR WALLS, FREE STANDING, AND SITE WALLS UNLESS OTHERWISE NOTED.

50.19 ALL CMU ELEMENTS SHALL BE ADEQUATELY BRACED TO PROVIDE STABILITY UNTIL THE ENTIRE STRUCTURE IS COMPLETE TO PREVENT DAMAGE DURING CONSTRUCTION, ESPECIALLY DUE TO BACK FILLING AND SOIL COMPACTION OPERATIONS.

50.20 ALL CMU WALLS RETAINING MORE THAN 24" OF UNBALANCED FILL MUST BE ENGINEERED BY A LICENSED PROFESSIONAL ENGINEER.

60.00 STRUCTURAL SUBMITTALS

60.01 IN ADDITION TO SUBMITTALS REQUIRED BY THE PROJECT SPECIFICATIONS AND ELSEWHERE IN THE CONSTRUCTION DOCUMENTS, THE FOLLOWING "STRUCTURAL SUBMITTALS" ARE REQUIRED FOR REVIEW BY THE E.O.R.

01.01 PILE INSTALLATION QUALITY CONTROL: THE CONTRACTOR SHALL SUBMIT A QUALITY CONTROL PLAN TO INDICATE THE PROTOCOL FOR ENSURING THE PILE PLACEMENT AND SPACING MEETS THE REQUIREMENTS OF THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. THE PLAN SHOULD ALSO IDENTIFY OPTIONS TO CORRECT THE CONFIGURATION OF THE PILINGS IF THE WORK IS NOT ACCEPTED BY THE ENGINEER

01.02 PILE INSTALLATION MONITORING LOG: SEE PILE NOTES

01.03 CONCRETE ADMIXTURES: THE CONTRACTOR SHALL SUBMIT ANY/ALL CONCRETE ADMIXTURES FOR APPROVAL PRIOR TO USE.

01.04 CONCRETE STRENGTH TESTS: ONE CONCRETE 28-DAY TEST PER ASTM C39 FOR EVERY BATCH OF CONCRETE DELIVERED TO THE SITE.

01.05 CONCRETE DETAILING: CONCRETE DETAILING REINFORCEMENT AND ACCESSORIES PER ACI 315-80 DETAILING MANUAL. SUBMIT SHOP DRAWINGS PER F.A.C. 61G15-30.002 (8) FOR APPROVAL, SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCEMENT STEEL AND ACCESSORIES. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETE, REVIEWED, AND APPROVED.

01.06 ENGINEERED FILL COMPACTION TESTING: SUBMIT MATERIAL TESTING REPORT VERIFYING MINIMUM COMPACTION DENSITY WAS REACHED FOR FILL.

01.07 TIMBER CERTIFICATIONS: THE CONTRACTOR SHALL SUBMIT MANUFACTURER'S CERTIFICATE OF QUALITY VERIFYING THE TIMBER COMPONENTS MEET THESE SPECIFICATIONS. THESE CERTIFICATIONS SHOULD DESCRIBE THE LUMBER SPECIES, GRADE, AND PRESERVATIVE TREATMENT OF THE PILES, TIMBER PILE CAPS, AND JOISTS.

01.08 ENGINEERED ROOF AND FLOOR TRUSSES: SUBMIT DOCUMENTS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA PER F.A.C. 61G15-30.002(5) FOR ALL ROOF AND FLOOR TRUSSES **PRIOR TO FABRICATION AND/OR INSTALLATION**

01.09 STEEL JOISTS: SUBMIT DESIGN CALCULATIONS, LAYOUT, ERECTION AND CONSTRUCTION DETAILS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA PER F.A.C. 61G15-30.002 (5).

01.10 STRUCTURAL STEEL: SUBMIT SHOP DRAWINGS PER F.A.C. 61G15-30.002 (8) PREPARED IN ACCORDANCE WITH AISC MANUAL "DETAILING FOR STEEL CONSTRUCTION". DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETE, REVIEWED, AND APPROVED.

60.02 ALL "STRUCTURAL SUBMITTALS" SHALL BE PREPARED BY A "SPECIALTY ENGINEER" IN ACCORDANCE WITH THE FBC2014, F.A.C. 61G15, AND F.S. CHAPTER 471.

60.03 SHOP DRAWINGS PREPARED SOLELY AS A GUIDE FOR ERECTION AND INSTALLATION AND CATALOG INFORMATION WILL NOT REQUIRE AN ENGINEER'S SEAL; HOWEVER, THEY SHALL BEAR THE ENGINEER'S SIGNATURE INDICATING THAT HE/SHE HAS CHECKED THE WORK.

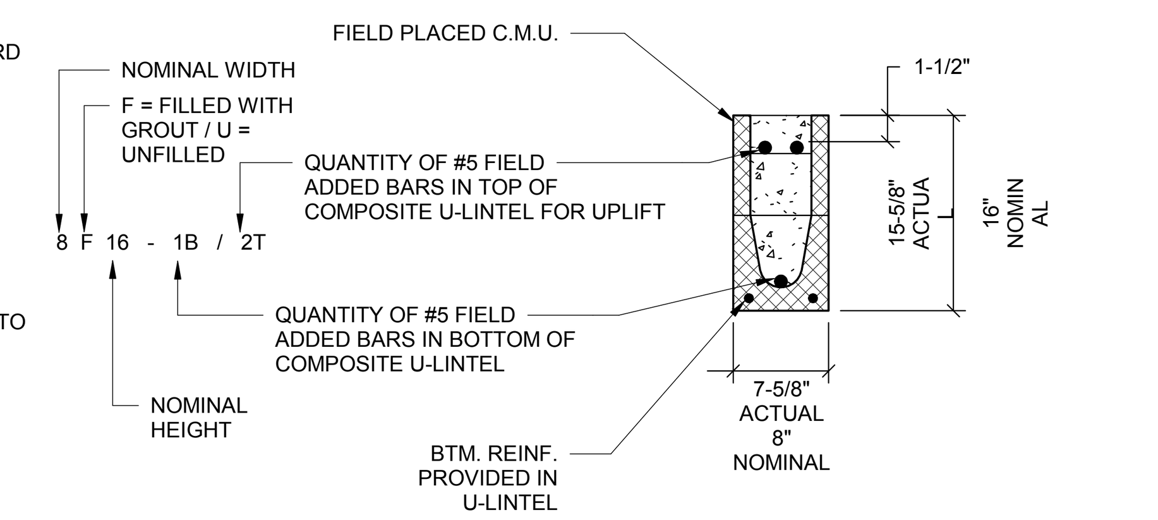
60.04 DRAWINGS INTRODUCING ENGINEERING INPUT AND CALCULATIONS SHALL BE SEALED BY THE ENGINEER PREPARING SUCH WORK F.A.C. 61G15-30.006 (3).

60.05 THE REVIEW OF STRUCTURAL SUBMITTALS BY THE E.O.R. SHALL ENSURE THAT THE SUBMITTALS HAVE BEEN FURNISHED AND PREPARED BY A QUALIFIED PERSON, THAT THE DELEGATED ENGINEER OF RECORD UNDERSTOOD THE INTENT OF THE DESIGN AND USED THE SPECIFIED CRITERIA, AND THAT THE CONFIGURATION OF THE DESIGN IS CONSISTENT WITH THE CONSTRUCTION DOCUMENTS. NO DETAILED CHECK OF DIMENSIONS WILL BE MADE.

60.06 ANY DESIGN CHANGES MADE BY A "VALUE, SPECIALTY OR DELEGATED ENGINEER" SHALL BE PERFORMED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA. PRIOR TO FABRICATION ALL DESIGN CHANGES MUST BE SUPPORTED BY CALCULATIONS, SIGNED AND SEALED THEN SUBMITTED TO THE E.O.R. FOR APPROVAL.

60.07 REFER TO F.A.C. SECTION 61G15-23.002, 30.002, 30.006 AND 31.002.

PRE-CAST LINTEL TYPE DESIGNATION EXAMPLE:



PRE-CAST LINTEL NOTES:

1. ALL PRE-CAST LINTELS TO BE CAST-CRETE OR APPROVED EQUIVALENT.
2. ALL LINTELS TO HAVE A MINIMUM 4 INCH NOMINAL BEARING @ E.E.
3. RUN ALL BOND BM. REINF. CONTINUOUS ACROSS AND/OR THROUGH LINTELS AS NEC.
4. CONTRACTOR MAY SUBSTITUTE (1) #7 BAR FOR PLAN SPECIFIED (2) #5 BOTTOM BARS IN BOND BEAMS WHERE CROSSING 8" U-LINTEL WITHIN SAME COURSE.
5. LAP BOTTOM #7 BARS TO THE (2) #5 BOND BEAM BOTTOM BARS MIN. 26" EACH SIDE OF LINTEL.
6. NO SEGMENTED LINTEL BLOCK (A.K.A. "HILLBILLY HEADERS") WILL BE ACCEPTED IN PLACE OF PLAN SPECIFIED PRE-CAST LINTELS.

BOND BEAM & PARAPET SPECIFICATIONS

1. THE FINAL TWO LIFTS ON EACH cCMU WALL SHALL BE TWO BOND BEAM BLOCKS W/ (2)-#5 BARS IN EACH. (A MIN. 8x16 C.I.P. CONC. BM. W/ (2)#5 BARS T&B & #3 TIES @ 16" O.C. MAY BE USED INSTEAD OF BOND BEAM BLOCKS IF APPROVED BY E.O.R. PRIOR TO PLACEMENT)
2. ALL BOND BEAM #5 REINFORCING STEEL SHALL RUN CONTINUOUS AND SHALL BE LAP SPLICED AMIN. 30" WHERE A SPLICE IS REQUIRED U.N.O.
3. PARAPET WALLS MUST HAVE (2)-#5 BARS AROUND C.I.P. TOP W/ MIN. 2" CLEAR (SEE ARCH. FOR SHAPE REQ.)

ELECTRONIC SIGNATURE AND TRANSMITTAL STATEMENT

THIS DOCUMENT HAS BEEN ELECTRONICALLY SIGNED AND SEALED USING A DIGITAL SIGNATURE CREATED BY ADOBE READER. THE METHOD AND SOFTWARE UTILIZED TO SIGN AND SEAL THE PLANS ARE IN COMPLIANCE WITH THE INTENT OF THE FL BOARD OF PROFESSIONAL ENG. RULES, F.S. CHAPTER 471, F.S. CHAPTER 668.001-006, AND F.A.C. 61G15-23.003. THIS DOCUMENT INTENDED FOR ELECTRONIC SUBMITTAL ONLY. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

PLAN ABBREVIATION LEGEND

AB	ANCHOR BOLT	EXT.	EXTERIOR	R.L.L.	ROOF LIVE LOAD
ARCH.	ARCHITECTURAL PLANS	FTG.	FOOTING	REINF.	REINFORCED OR REINFORCING
(B)	BOTTOM (FOR REINF.)	G.T.	GIRDER TRUSS	R.O.	ROUGH OPENING
BM.	BEAM	GDR.	GIRDER	S.D.N.	STRUCTURAL DESIGN NOTES (SDN SAME)
BTM.	BOTTOM	HDR.	HEADER	S.P.	STUD PACK
CB	CARRIAGE BOLT	H.S.S.	HEADED SHEAR STUD	S.S.	STAINLESS STEEL (SS SAME)
C.C.	CENTER TO CENTER	HSS	HOLLOW STEEL SECTION	(T)	TOP (FOR REINF.)
C.I.P.	CAST IN PLACE	I.F.	INSIDE FACE	T/	TOP (EX. T/PLATE= TOP PLATE)
C.J.	CONTROL JOINT	L.L.	LIVE LOAD	T&B	TOP AND BOTTOM (PLACEMENT)
C.J.S.	C.J. W/ SHEAR REINF.	LVL	LAMINATED VENEER LUMBER	T&S	TEMPERATURE & SHRINKAGE REINF.
CMU	CONCRETE MASONRY UNIT	(M)	MIDDLE (FOR REINF.)	TDR.	THREADED ROD or ALL-THREAD ROD
C.O.	CASED OPENING	MB	MACHINE BOLT (HEX HEAD)	U.N.O.	UNLESS NOTED OTHERWISE
CONC.	CONCRETE	MFGR.	MANUFACTURER	U.W.A.	UNDER WALL ABOVE
CONT.	CONTINUOUS	O.C.	ON CENTER (SPACING)	W/	WITH
D.L.	DEAD LOAD	O.C.E.W.	ON CENTER EACH WAY (SPACING)	W/O	WITHOUT
E.E.	EACH END	O.F.	OUTSIDE FACE	WF	WIDE FLANGE (BEAM)
E.F.	EACH FACE	P.L.	POINT LOAD		
E.W.	EACH WAY	PSL	PARALLEL STRAND LUMBER		

SUGGESTED SCHEDULE OF INSPECTIONS

1. FOUNDATION ELEMENTS:
   - REVIEW OF GENERAL LAYOUT, ELEMENT SIZES, AND REINFORCING
   - ALL VERT. DOWEL REINF. MUST BE IN PLACE & TIED
2. MASONRY:
   - FOUNDATION STEM WALLS AND PIERS VERT. REINF., HORZ. REINF. & TIES
   - REINF. FOR CMU WALLS, PARTITIONS, SITE WALLS & RETAINING WALLS
   - REINF. REVIEW FOR LINTELS, BOND BEAMS, WALL TOP-OUT'S
   - SPECIAL INSPECTION REQUIRED FOR ALL REINF. NOT CENTERED WITHIN CELLS.
3. CAST IN PLACE CONCRETE ELEMENTS:
   - REINF. FOR WALLS & COLUMNS PRIOR TO CLOSING FORMWORK
   - REINF. IN ALL C.I.P. BEAMS, & STRUCTURAL SLABS
4. ENGINEER FINAL INSPECTION & COUNTY WIND LOAD CERTIFICATION:
   - PRIOR TO FINAL CERT. THE EOR MUST PERFORM A FINAL WALK-THROUGH OF ALL PORTIONS OF THE STRUCTURE INCLUDED WITH EACH PERMIT NUMBER ASSOCIATED WITH THE PROJECT. THE BUILDING ENVELOPE MUST BE 100% STRUCTURALLY COMPLETE AT THE TIME OF THIS INSPECTION.

INSPECTION NOTES:
A. THE E.O.R. CHECKPOINT INSPECTIONS LISTED ABOVE ARE SEPARATE FROM, AND IN NO WAY SUPPLANT THE COUNTY BUILDING INSPECTOR'S REQUIRED CONSTRUCTION INSPECTIONS.
B. THE CONTRACTOR SHOULD TAKE ADEQUATE PICTURES OF ALL STRUCTURAL ELEMENTS DURING EACH AND ALL PHASES OF CONSTRUCTION TO PROVIDE VERIFICATION OF STRUCTURAL ELEMENTS AND CONSTRUCTION METHODS TO THE E.O.R. or BUILDING OFFICIAL UPON REQUEST.
C. INSPECTIONS MUST BE SCHEDULED A MINIMUM OF 24 HOURS IN ADVANCE. ON SITE CANCELLATIONS WILL NOT BE ACCEPTED. SCHEDULING AND COORDINATING OF THESE INSPECTIONS IS THE CONTRACTOR'S RESPONSIBILITY.
D. RE-INSPECTIONS RESULTING FROM REQUIRED REMEDIAL ACTIONS, CONTRACTOR ERROR, OR SCHEDULING MISS-QUEUE ARE IN ADDITION TO THE SCHEDULED INSPECTION FREQUENCY.

REINFORCEMENT LAP SPLICE LENGTHS

COMPRESSION BARS

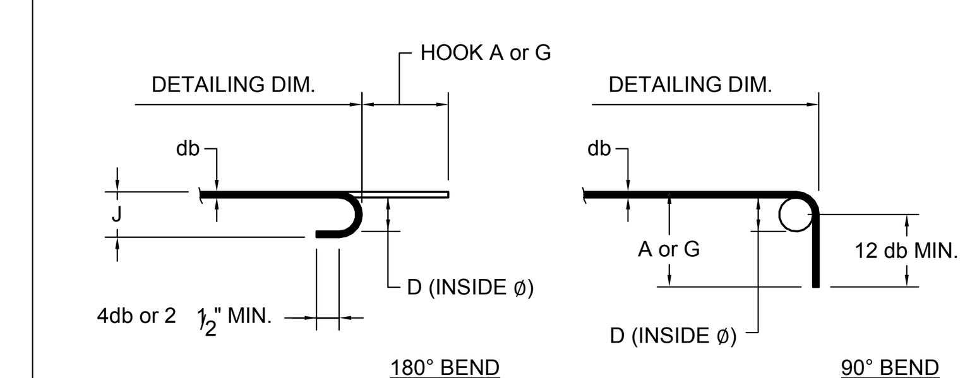
MINIMUM COMPRESSION DOWEL EMBEDMENT = 22 x BARDIA.
MINIMUM COMPRESSION LAP LENGTH = 30 x BAR DIA.

TENSION BARS

BAR SIZE	MINIMUM LAP SPLICE LENGTHS (INCHES)		MIN. STRAIGHT BAR DEVELOPMENT LENGTHS (INCHES)	
	TYPICAL	BEAM TOP BARS	TYPICAL	BEAM TOP BARS
# 5	26	36	15	21
# 6	31	43	19	27
# 7	39	54	26	37
# 8	51	71	35	48
# 9	65	90	44	61

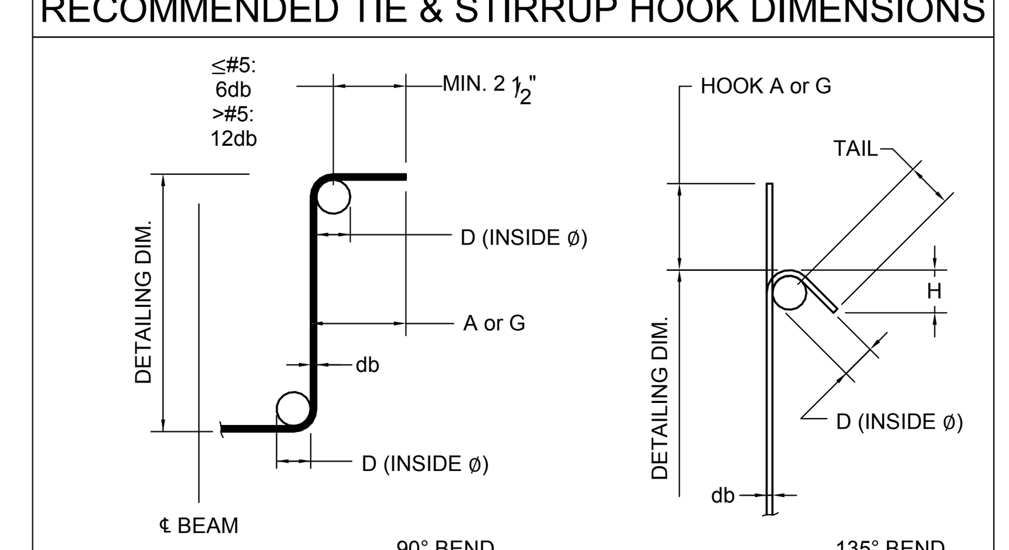
ACI STANDARD HOOKS

RECOMMENDED REINFORCING REBAR END HOOK DIMENSIONS



BAR SIZE	D (INSIDE DIA.)	180° HOOKS		90° HOOKS
		A or G	J	A or G
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	1'-0"
#7	5 1/4"	10"	7"	1'-2"
#8	6"	11"	8"	1'-4"
#9	9 1/2"	1'-3"	11 3/4"	1'-7"
#10	10 3/4"	1'-5"	1'-1 1/4"	1'-10"

RECOMMENDED TIE & STIRRUP HOOK DIMENSIONS



BAR SIZE	D (INSIDE DIA.)	90° HOOKS	135° HOOKS	
		A or G	A or G	H
#3	1 1/2"	4"	4"	2 1/2"
#4	2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"
#6	4 1/2"	1'-0"	7 3/4"	4 1/2"

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SINCE 1957

CLIENT:

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PROJECT:

GCSC SOFTBALL COMPLEX

TERRY L ANDERSON
LICENSE
No. 33553
STATE OF FLORIDA
PROFESSIONAL ENGINEER

NOT APPROVED UNLESS STAMPED WITH PROFESSIONAL ENGINEERS SEAL

ANDERSON ENGINEERS, P.A.
78 Ricker Avenue • Santa Rosa Beach, Florida
PHONE: (850) 231-4540 FAX: (850) 231-7980

RELEASE:

CONSTRUCTION DOCUMENTS
GCSC SOFTBALL COMPLEX

SCALE: 1/4" = 1'-0"	DATE: 05/19/2017
DRAWN: SSN	CHECKED: TLA

NO.	REVISION:	DATE:

SHEET TITLE:

STRUCTURAL NOTES

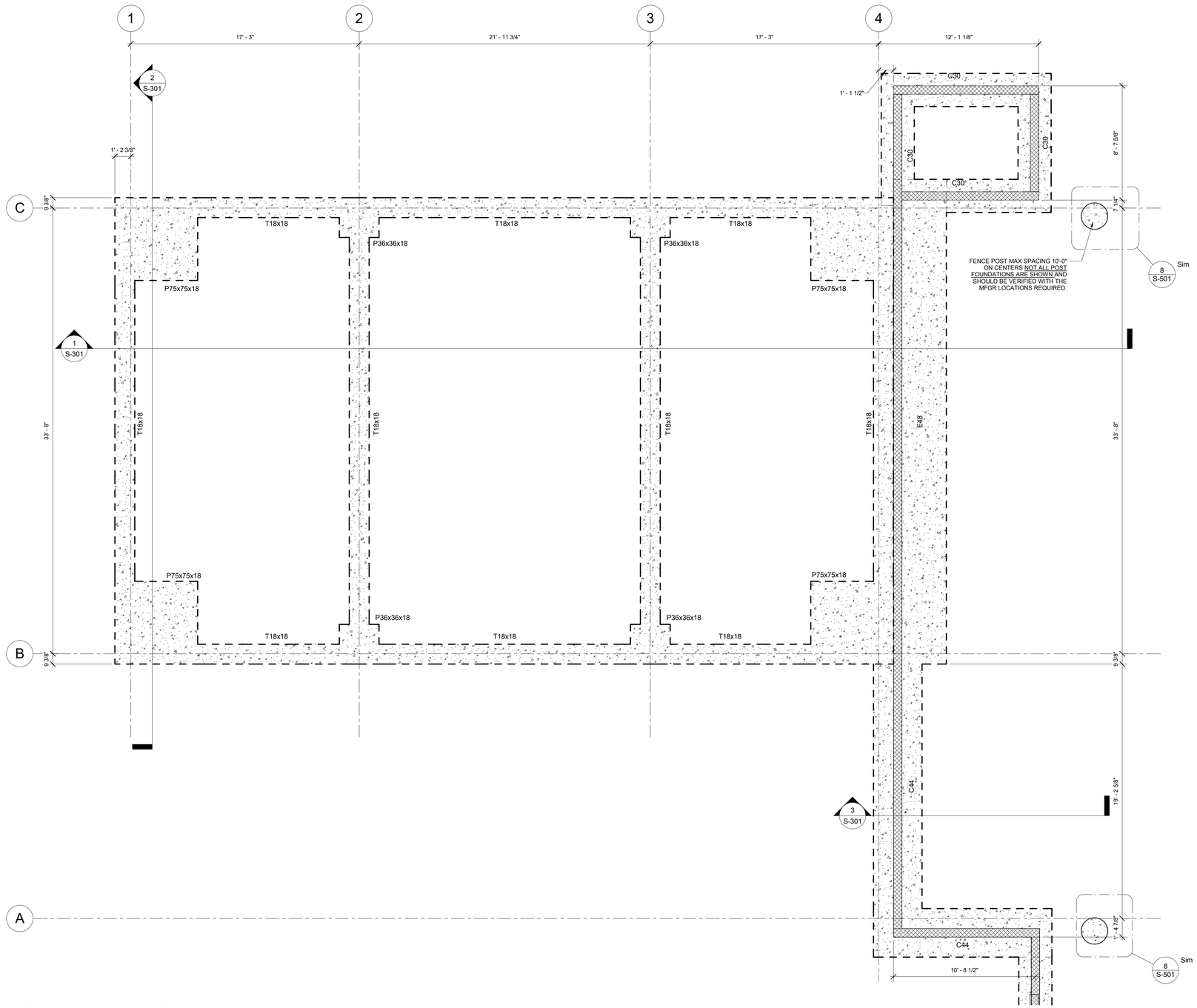
PROJECT NO.	SHEET
4226	S-001

FOOTING NOTES:

1. ALL CONTINUOUS FOOTINGS ARE A MINIMUM OF 36" WIDE U.N.O.
2. ALL CONTINUOUS STRIP & PEDESTAL FOOTINGS ARE 18" THICK U.N.O.
3. ALL TURNDOWN SLAB FOOTINGS MUST HAVE A MINIMUM PERIMETER HAUNCH DEPTH OF 18" U.N.O.
4. TOPS OF ALL FOOTINGS (EXCEPT TURNDOWNS) MUST BE COVERED WITH A MINIMUM OF 8" OF FINISH GRADE MATERIAL U.N.O.
5. BOTTOMS OF ALL FOOTINGS MUST BEAR ATOP UNDISTURBED SOIL A MINIMUM OF 18" BELOW EXISTING GRADE UNLESS PROPER PROVISIONS HAVE BEEN MADE FOR THE USE OF ENGINEERED FILL BASED ON A SITE SPECIFIC GEOTECHNICAL EVALUATION (BY OTHERS).
6. FTG. WIDTHS ≥ 36" TO BE REINFORCED W/ CONTINUOUS #5 BARS SPACED @ 14" O.C. (3 MIN.) AND #5 TIES @ 14" O.C. U.N.O.
7. MINIMUM FOOTING WIDTHS MUST ALLOW FOR A MINIMUM 8" OFFSET FROM BOTH FACES OF CMU WALLS (TYP).
8. ALL CONTINUOUS FOOTINGS MUST BE CENTERED ON THE STEMWALL UNLESS SPECIFICALLY NOTED AS ECCENTRIC FOOTING.
9. FOOTING SIZES, REINFORCING TYPE & SPACING LISTED WITHIN THE FOOTING SCHEDULE SHALL GOVERN OVER FOOTING NOTES.
10. OUTSIDE LONGITUDINAL/FLEXURAL REINFORCING BARS IN CONTINUOUS FOOTINGS MUST BE LOCATED 3" CLEAR FROM OUTSIDE OF FOOTING WIDTH ON EACH SIDE.
11. TRANSVERSE REINF. SHOULD BE SUPPORTED 3" FROM BTM. OF FTG. WITH LONGITUDINAL/FLEXURAL BARS RUNNING OVER TOP TIED SECURELY AT EACH CROSSING POINT.
12. VERTICAL DOWEL HOOKS SHOULD EXTEND 12" IN TO FTG'S, BELOW & RUNNING PERPENDICULAR TO FLEXURAL REINF.
13. NO "WET STICK" SETTING OF REINFORCING WILL BE APPROVED.
14. ALL VERTICAL REINFORCING MUST BE IN PLACE & TIED TO FOOTING REINF. PRIOR TO POUR.
15. ALL DIMENSIONS ARE TO O.F. OF CMU OR TO CENTERLINE OF PIERS.
16. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DOCUMENTS.
17. DO NOT SCALE DRAWING.

SLAB ON GRADE NOTES:

1. SLABS ARE DESIGNED USING 4" THICK 3,000 PSI CONC. REINFORCED W/ 6X6-W1.4xW1.4 WELDED WIRE MESH ON 6 MIL. VAPOR BARRIER.
2. SLABS UTILIZING 6X6-W1.4xW1.4 WELDED WIRE MESH SHOULD HAVE CONTROL JOINTS @ MAXIMUM 12 FT O.C.E.W. TO REDUCE EXCESSIVE TEMPERATURE & SHRINKAGE CRACKING.
3. IF SAWN CONTROL JOINTS ARE NOT USED AND CRACK REDUCTION IS DESIRED, SPECIFIED SLAB REINFORCING SHOULD BE INCREASED TO REDUCE TEMPERATURE AND SHRINKAGE CRACKING. ONE OF THE FOLLOW REINFORCING OPTIONS SHOULD BE USED.
   A. 4X4-W2.9xW2.9 WELD WIRE REINFORCING: NOTE THIS ITEM MAY BE SPECIAL ORDER AND NOT USUALLY LOCALLY AVAILABLE.
   B. 6X6-W4.7xW4.7 REINFORCING: NOTE THIS IS USUALLY A CUSTOM ORDER ITEM, CONTRACTOR TO ALLOW TIME FOR FABRICATION.
   C. #3 DEFORMED REINFORCING REBARS SPACED AT 12" O.C.E.W.
1. NORMAL TEMPERATURE AND SHRINKAGE CRACKING RESULTING FROM UTILIZING W1.4 STEEL MESH WITHOUT CONTROL JOINTS, WHILE UNSIGHTLY, DO NOT TYPICALLY INDICATE A STRUCTURAL DEFICIENCY AND SHOULD NOT CAUSE ALARM IF OMITTED.



1 S-101 HOME SIDE FOUNDATION PLAN

1/4" = 1'-0"

FOOTING SCHEDULE

IDENT.	WIDTH	DEPTH / THICKNESS		REINF.	NOTES
4" Foundation Slab		4"		6x6 W1.4xW1.4 STEEL MESH	
C30	2' - 6"	1' - 0"		(3) CONT. #5 BARS & #3 TIES @ 18" O.C.	
C44	3' - 8"	1' - 2"		(6) CONT. #5 BARS & #5 TIES @ 12" O.C.	
E48	4' - 0"	1' - 2"		(6) CONT. #5 BARS & #5 TIES @ 12" O.C.	
P36x36x18	3' - 0"			(4) #5 BARS E.W. T&B	
P54x54x12	4' - 6"			(6) #5 BARS E.W.B	
P60x60x12	5' - 0"			(6) #5 BARS E.W.B	
P75x75x18	6' - 3"			(8) #5 BARS E.W. T&B	
SLAB	30' - 0"	2' - 0"		#6 BARS @ 12" O.C. E.W. T&B	
T8	8"		8"	(1) CONT. #5 BAR	
T12	1' - 0"		1' - 8"	(2) CONT. #5 BAR	
T18x18	1' - 6"		1' - 6"	(2) CONT. #5 BARS T&B W/ #4 CLOSED TIES @ 12" O.C.	
T24	2' - 0"		1' - 8"	(3) CONT. #5 BAR W/ #3 TIES SPACED @ 18" O.C.	

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RELEASE:
CONSTRUCTION DOCUMENTS
GCSC SOFTBALL COMPLEX

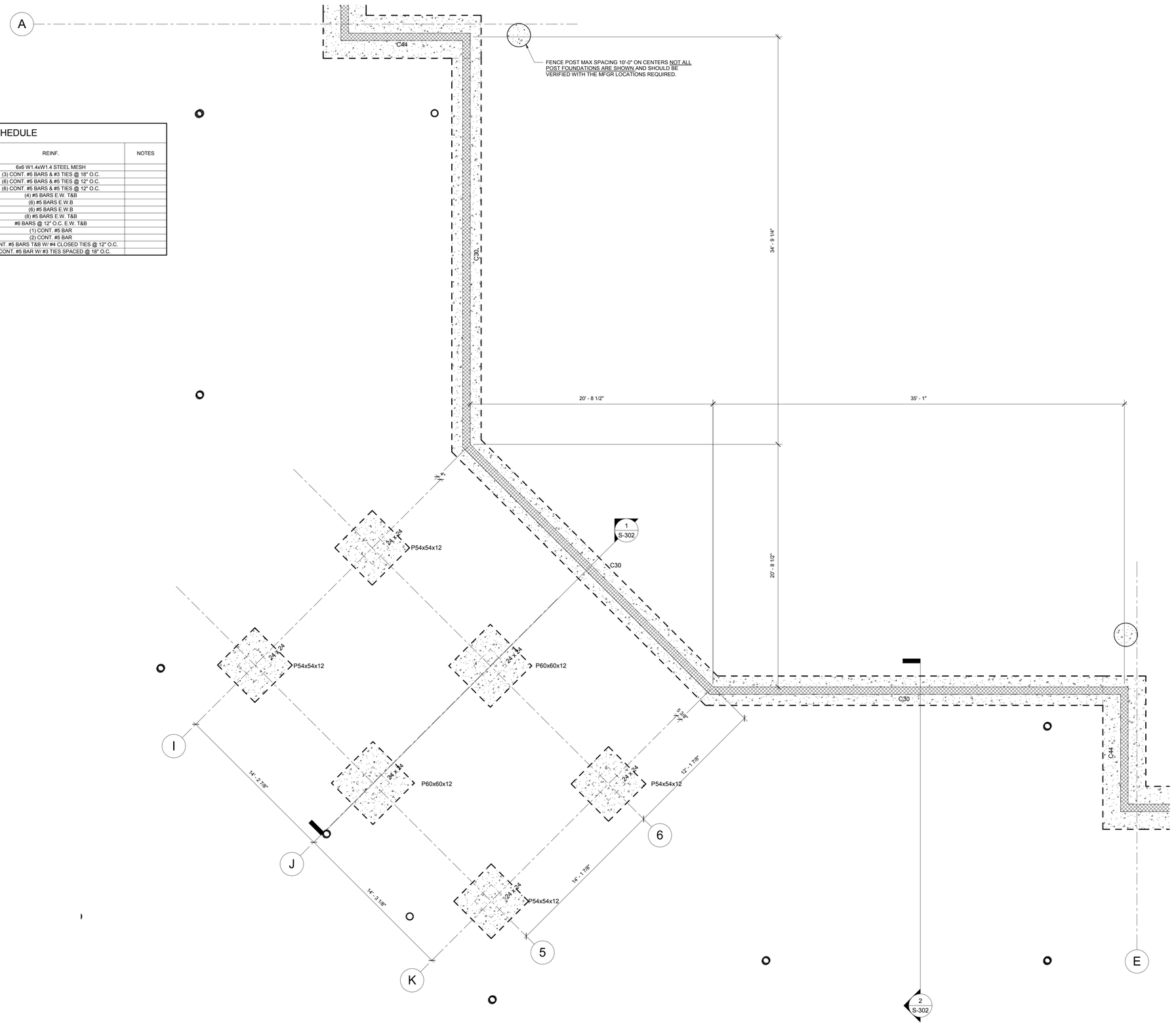
SCALE:	DATE:
1/4" = 1'-0"	05/19/2017
DRAWN: SSN	CHECKED: TLA

NO.	REVISION:	DATE:

SHEET TITLE:
HOME SIDE FOUNDATION PLAN

PROJECT NO. 4226
SHEET S-101

FOOTING SCHEDULE					
IDENT.	WIDTH	DEPTH / THICKNESS		REINF.	NOTES
4" Foundation Slab		4"		6x6 W1.4xW1.4 STEEL MESH	
C30	2' - 6"	1' - 0"		(3) CONT. #5 BARS & #3 TIES @ 18" O.C.	
C44	3' - 8"	1' - 2"		(6) CONT. #5 BARS & #5 TIES @ 12" O.C.	
E48	4' - 0"	1' - 2"		(6) CONT. #5 BARS & #5 TIES @ 12" O.C.	
P36x36x18	3' - 0"			(4) #5 BARS E.W. T&B	
P54x54x12	4' - 6"			(6) #5 BARS E.W.B	
P60x60x12	5' - 0"			(6) #5 BARS E.W.B	
P75x75x18	6' - 3"			(8) #5 BARS E.W. T&B	
SLAB	30' - 0"	2' - 0"		#6 BARS @ 12" O.C. E.W. T&B	
T8	8"		8"	(1) CONT. #5 BAR	
T12	1' - 0"		1' - 8"	(2) CONT. #5 BAR	
T18x18	1' - 6"		1' - 6"	(2) CONT. #5 BARS T&B W/ #4 CLOSED TIES @ 12" O.C.	
T24	2' - 0"		1' - 8"	(3) CONT. #5 BAR W/ #3 TIES SPACED @ 18" O.C.	



1 S-102 **BLEACHER FOUNDATION PLAN**

1/4" = 1'-0"

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PROJECT:

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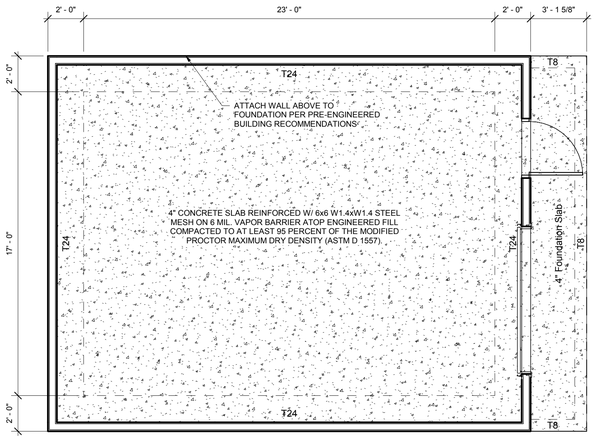
SCALE:	DATE:
1/4" = 1'-0"	05/19/2017
DRAWN: SSN	CHECKED: TLA

NO.	REVISION:	DATE:

SHEET TITLE:

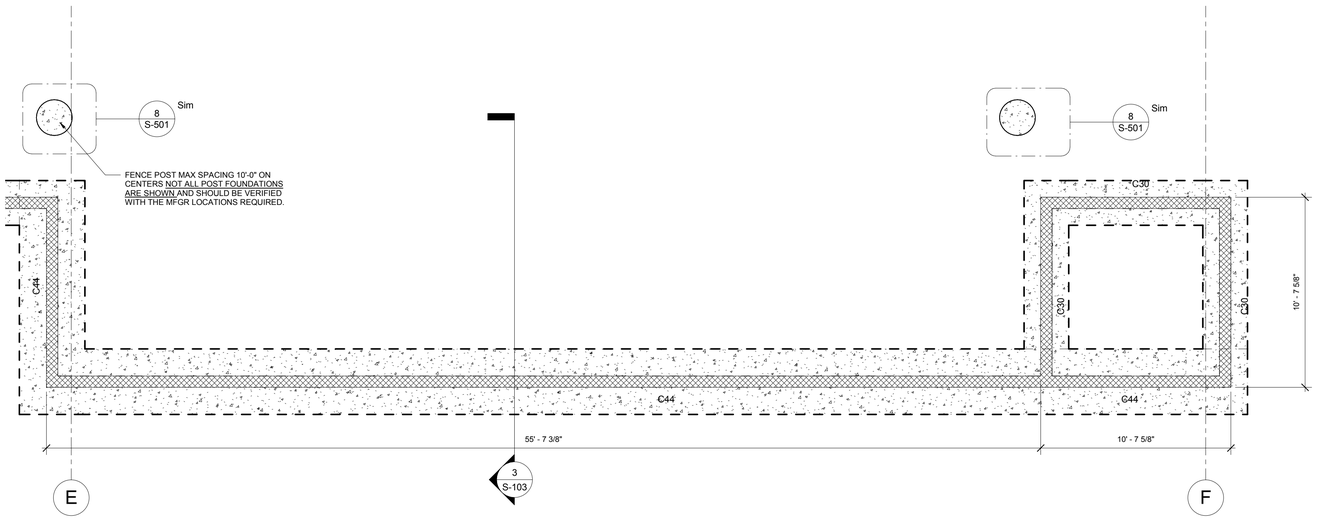
BLEACHER FOUNDATION PLAN

PROJECT NO.	SHEET
4226	S-102



4 S-103 SHED FOUNDATION

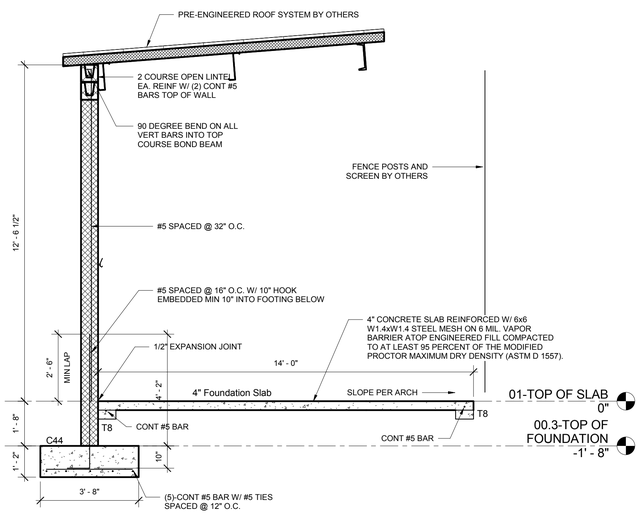
1/4" = 1'-0"



1 S-103 VISITOR DUGOUT FOUNDATION

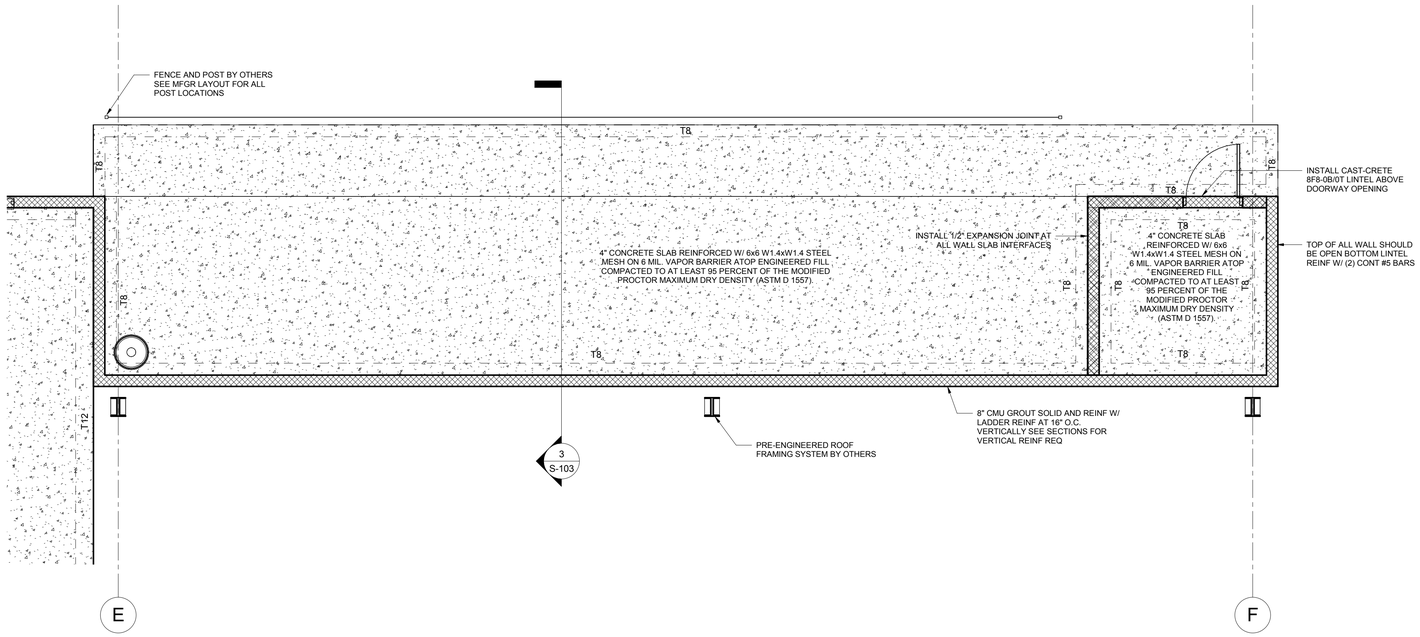
1/4" = 1'-0"

FOOTING SCHEDULE					
IDENT.	WIDTH	DEPTH / THICKNESS		REINF.	NOTES
4" Foundation Slab		4"		6x6 W1.4xW1.4 STEEL MESH	
C30	2' - 6"	1' - 0"		(3) CONT. #5 BARS & #3 TIES @ 18" O.C.	
C44	3' - 8"	1' - 2"		(6) CONT. #5 BARS & #5 TIES @ 12" O.C.	
E48	4' - 0"	1' - 2"		(6) CONT. #5 BARS & #5 TIES @ 12" O.C.	
P36x36x18	3' - 0"			(4) #5 BARS E.W. T&B	
P54x54x12	4' - 6"			(6) #5 BARS E.W.B	
P60x60x12	5' - 0"			(6) #5 BARS E.W.B	
P75x75x18	6' - 3"			(8) #5 BARS E.W. T&B	
SLAB	30' - 0"	2' - 0"		#6 BARS @ 12" O.C. E.W. T&B	
T8	8"		8"	(1) CONT. #5 BAR	
T12	1' - 0"		1' - 8"	(2) CONT. #5 BAR	
T18x18	1' - 6"		1' - 6"	(2) CONT. #5 BARS T&B W/ #4 CLOSED TIES @ 12" O.C.	
T24	2' - 0"		1' - 8"	(3) CONT. #5 BAR W/ #3 TIES SPACED @ 18" O.C.	



3 S-103 VISITOR DUGOUT SECTION

3/8" = 1'-0"



2 S-103 VISITOR DUGOUT SLAB PLAN

1/4" = 1'-0"

Dewberry | PREBLE-RISH
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(850) 522-0644

CONSULTANTS:

FLORIDA ARCHITECTS
LICENSE #AA0002730

GULF COAST STATE COLLEGE
SINCE 1957

CLIENT:

GULF COAST STATE COLLEGE

5230 US-98
PANAMA CITY,
FLORIDA 32401
850.169.1551
gulfcoast.edu

PROJECT:

GCSC SOFTBALL COMPLEX

TERRY L ANDERSON
LICENSE
No. 33553
STATE OF FLORIDA
PROFESSIONAL ENGINEER

NOT APPROVED UNLESS STAMPED WITH PROFESSIONAL ENGINEERS' SEAL

ANDERSON ENGINEERS, P.A.
78 Ricker Avenue · Santa Rosa Beach, Florida
PHONE: (850) 231-4540 FAX: (850) 231-7980

RELEASE:

CONSTRUCTION DOCUMENTS
GCSC SOFTBALL COMPLEX

SCALE:	DATE:
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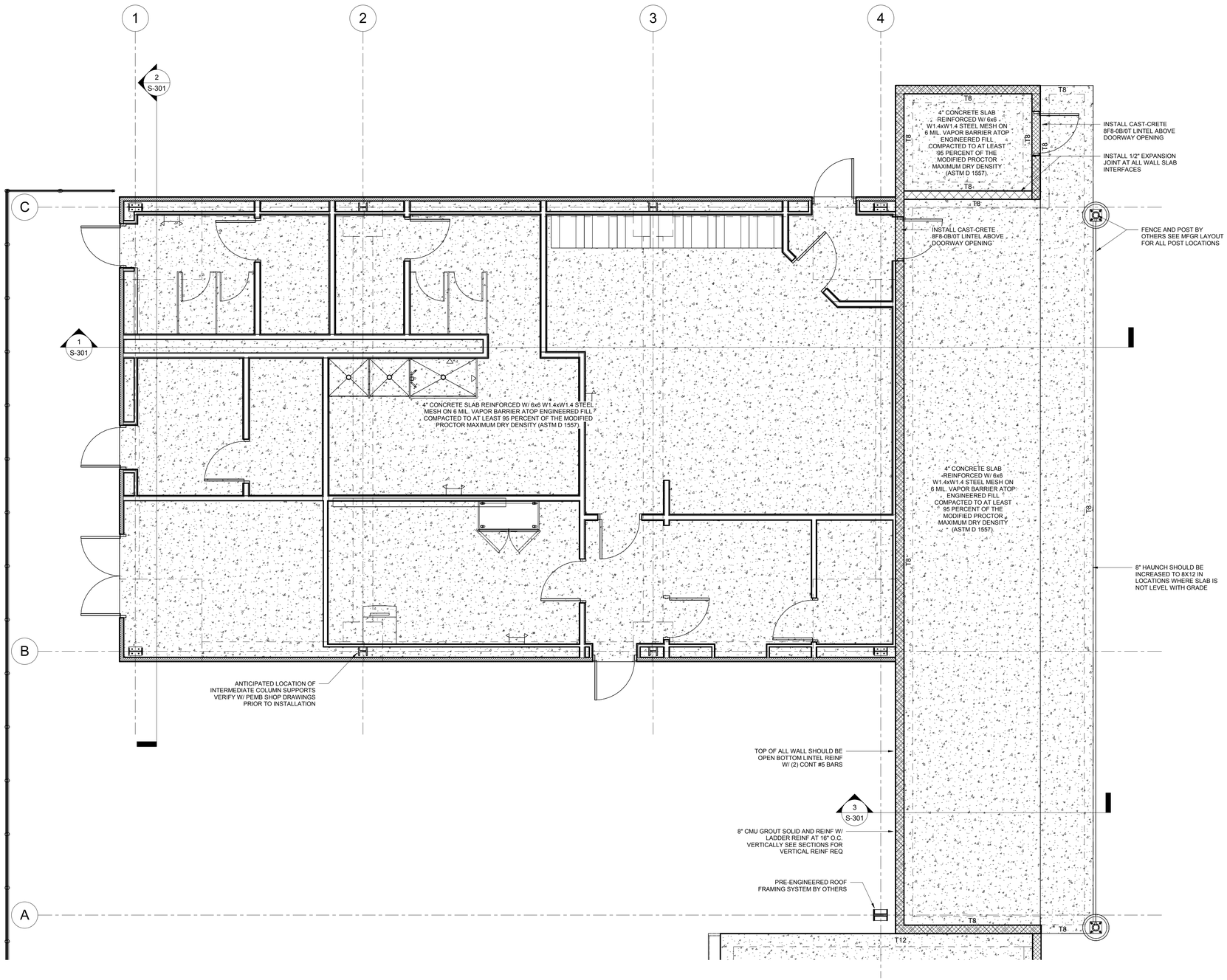
NO.	REVISION:	DATE:

SHEET TITLE:

VISITOR FOUNDATION AND SLAB PLAN

PROJECT NO.	SHEET
4226	S-103



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(850) 522-0644

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PROJECT:

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SCALE:	DATE:
1/4" = 1'-0"	05/19/2017
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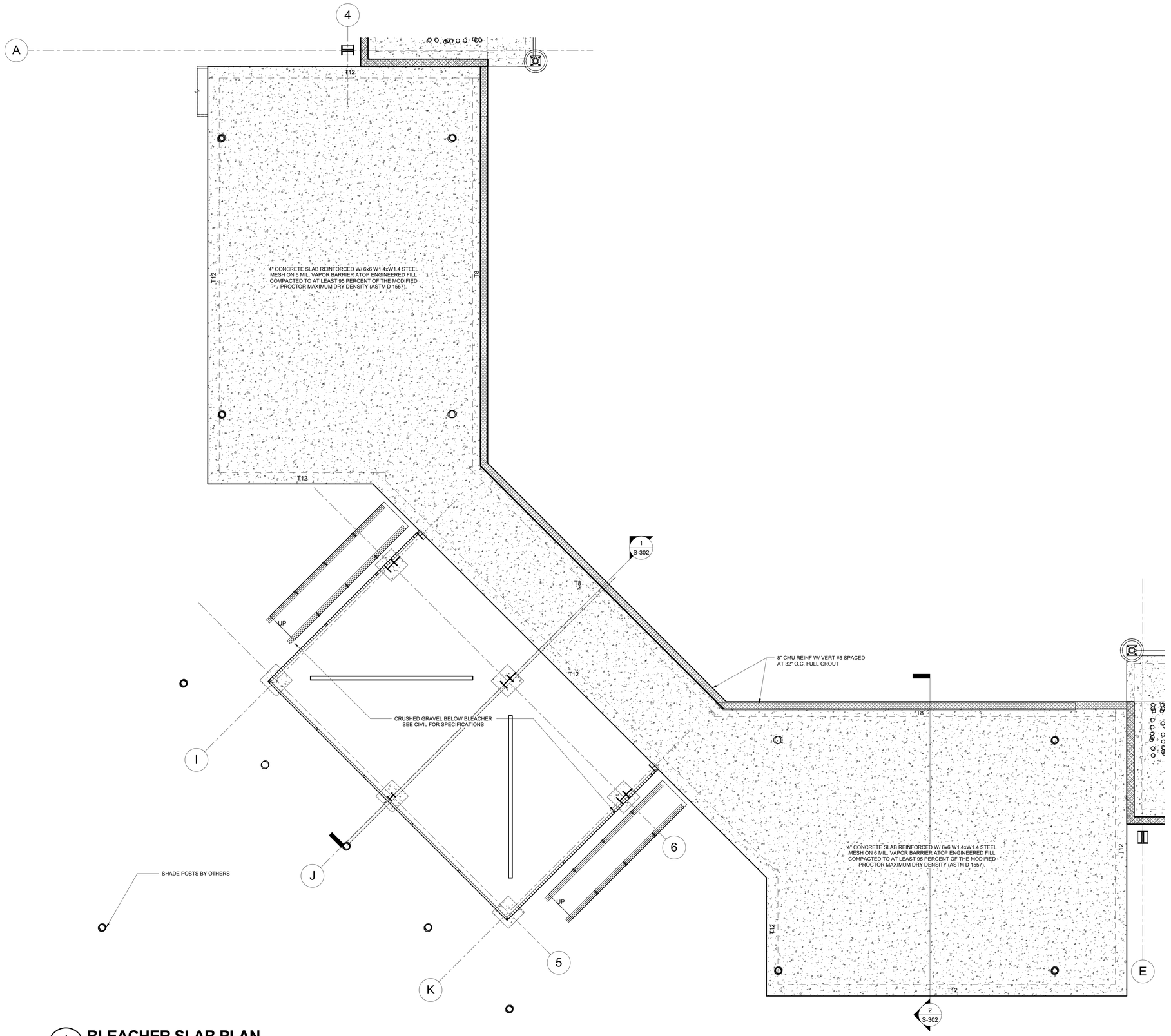
NO.	REVISION:	DATE:

SHEET TITLE:

HOME SIDE SLAB PLAN

PROJECT NO.	SHEET
4226	S-104



1 S-105 **BLEACHER SLAB PLAN**

1/4" = 1'-0"

Dewberry | PREBLE-RISH

203 ABERDEEN PKWY, PANAMA CITY, FL 32405
(850) 522-0644

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PROJECT:

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SCALE:	DATE:
1/4" = 1'-0"	05/19/2017
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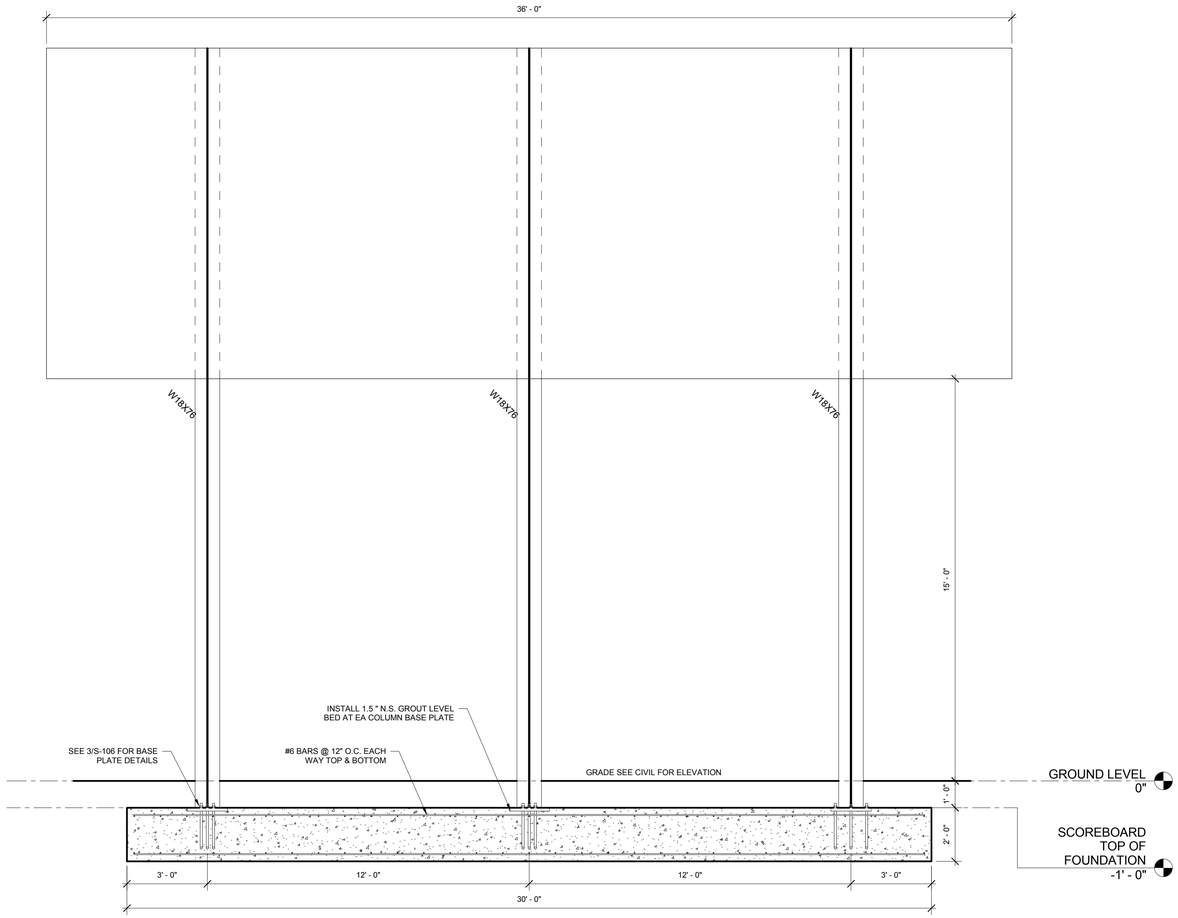
NO.	REVISION:	DATE:

SHEET TITLE:

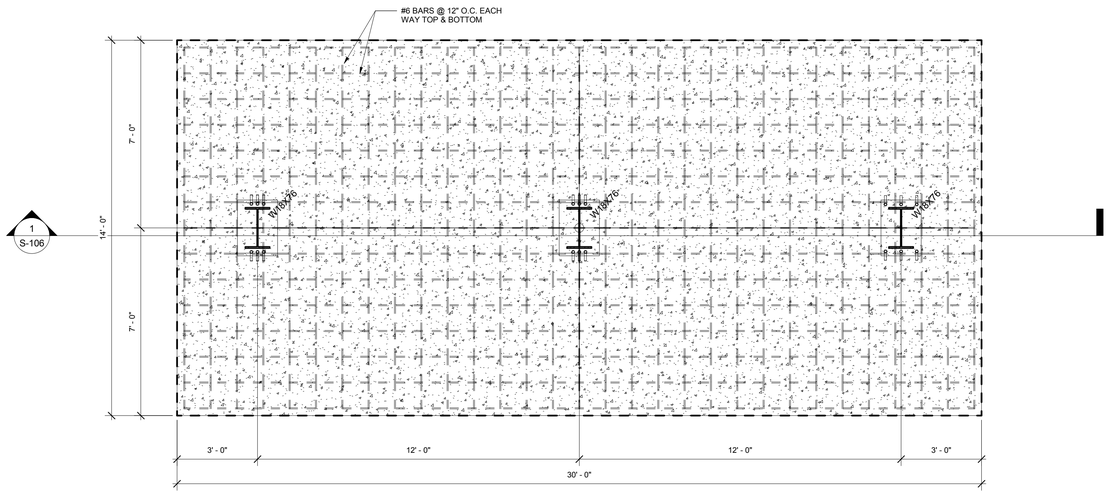
BLEACHER SLAB PLAN

PROJECT NO.	SHEET
4226	S-105



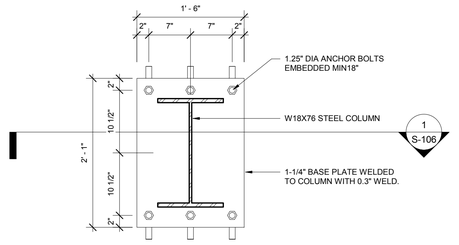
1 S-106 **SCOREBOARD FOUNDATION SECTION**

3/8" = 1'-0"



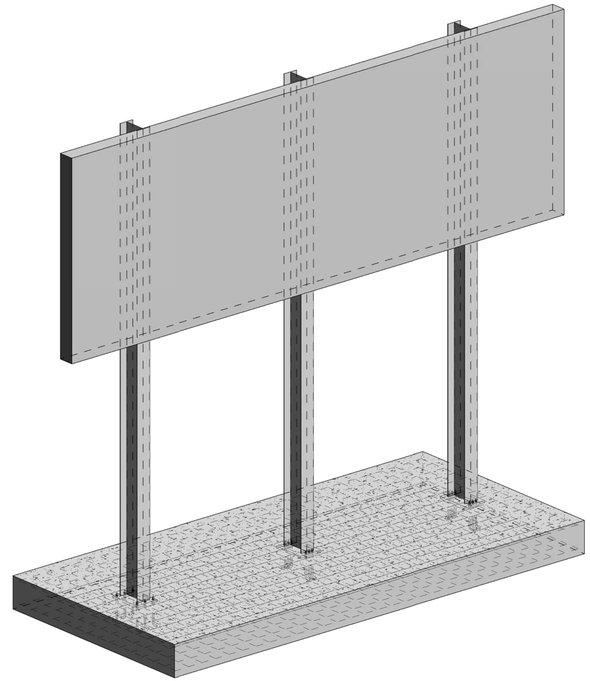
2 S-106 **SCOREBOARD FOUNDATION**

3/8" = 1'-0"



3 S-106 **BASE PLATE DETAIL**

1" = 1'-0"



4 S-106 **ORTHO SCOREBOARD**

FOUNDATION NOTES:

1. SLABS ARE DESIGNED USING 24" THICK 3,000 PSI CONC. REINFORCED W/ #6 REBAR SPACED AS SHOWN.
2. PRIOR TO INSTALLATION REMOVE ALL TOPSOIL, GRASS, VEGETATIVE MATTER. THOROUGHLY COMPACT SUBGRADE PRIOR TO REBAR PLACEMENT.
3. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
4. REBAR SHALL HAVE A CLEAR COVERAGE OF 3".
5. CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2014 EDITION.
6. DESIGN WIND VELOCITY = 135 MPH, EXP. B, CATEGORY II

Dewberry | PREBLE-RISH
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CLIENT:

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PROJECT:

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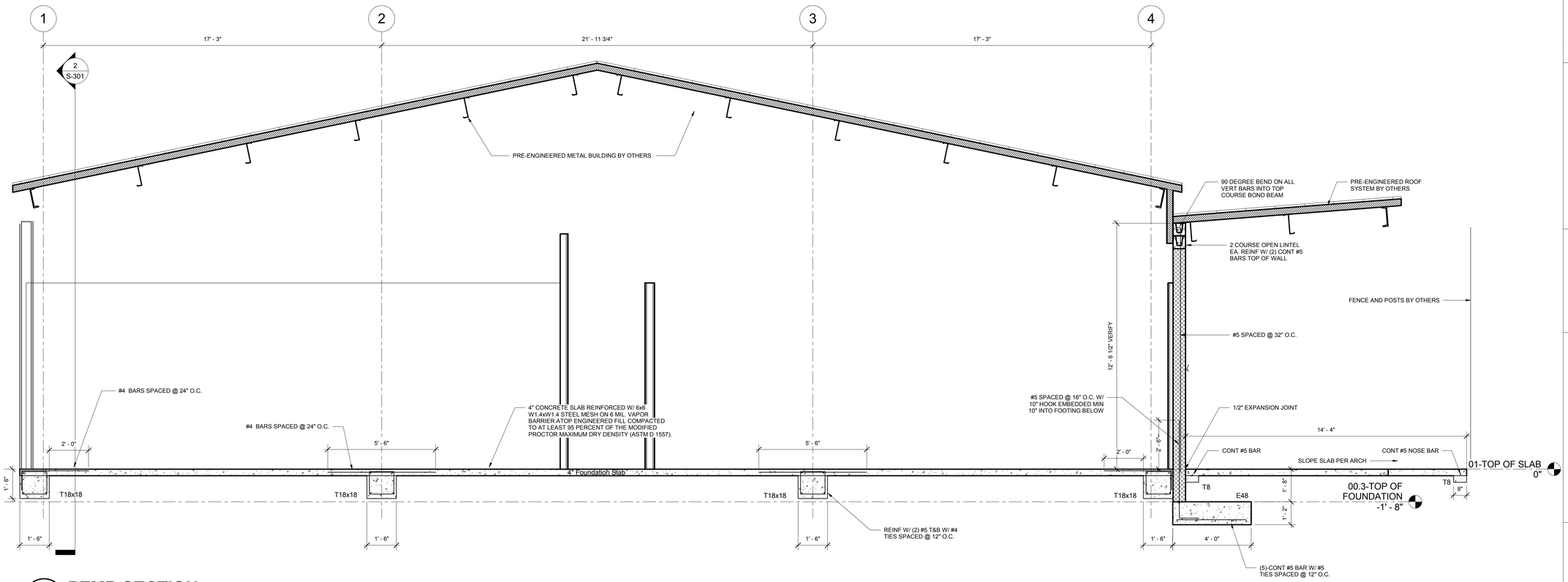
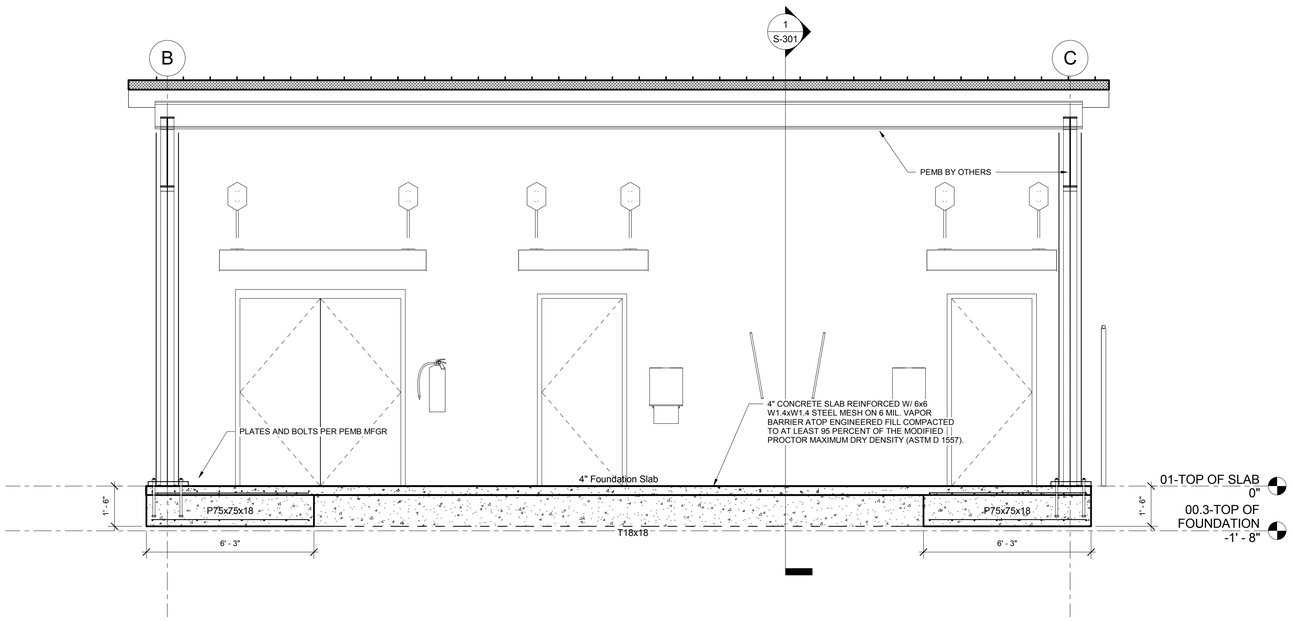
SCOREBOARD FOUNDATION

PROJECT NO.	SHEET
4226	S-106



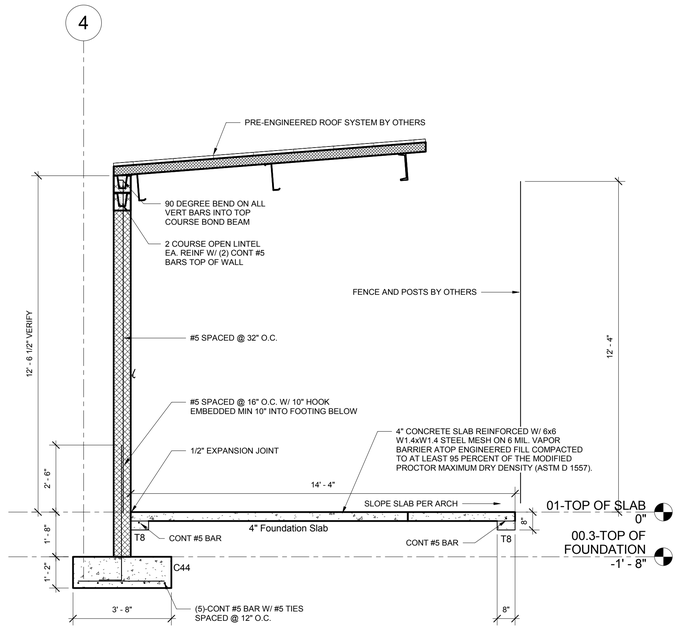
1 S-301 **PEMB SECTION**

3/8" = 1'-0"



2 S-301 **PEMB SECTION 2**

3/8" = 1'-0"



3 S-301 **HOME DUGOUT SECTION**

3/8" = 1'-0"

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RELEASE:

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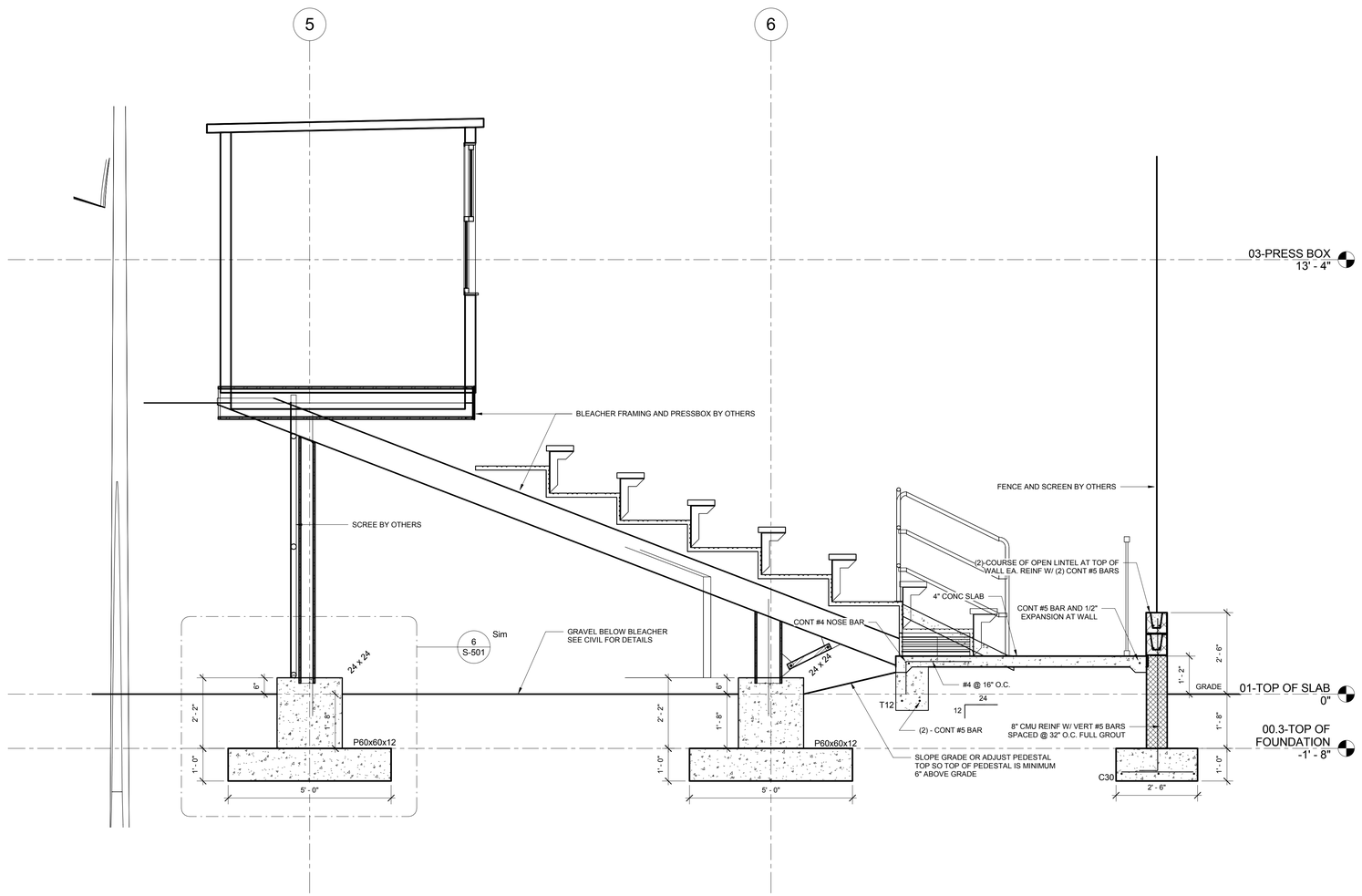
SCALE: 3/8" = 1'-0"	DATE: 05/19/2017
DRAWN: SSN	CHECKED: TLA

NO.	REVISION:	DATE:

SHEET TITLE:

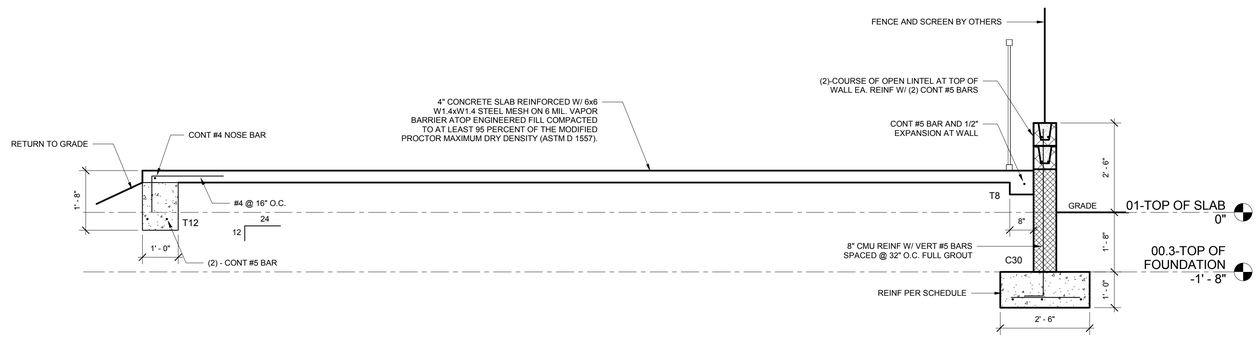
BUILDING SECTIONS

PROJECT NO.	SHEET
4226	S-301



1 S-302 BLEACHER SECTION

1/2" = 1'-0"



2 S-302 SHADE SLAB SECTION

1/2" = 1'-0"

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SCALE:	DATE:
1/2" = 1'-0"	05/19/2017
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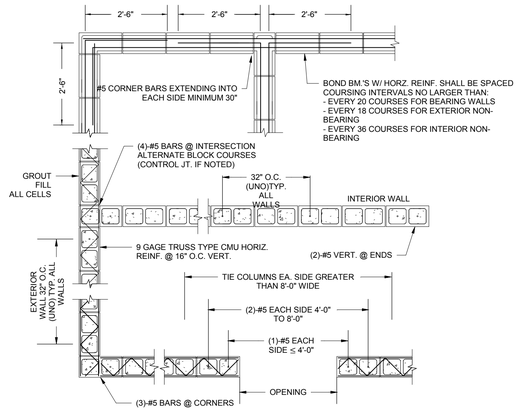
NO.	REVISION:	DATE:

SHEET TITLE:

BUILDING SECTIONS

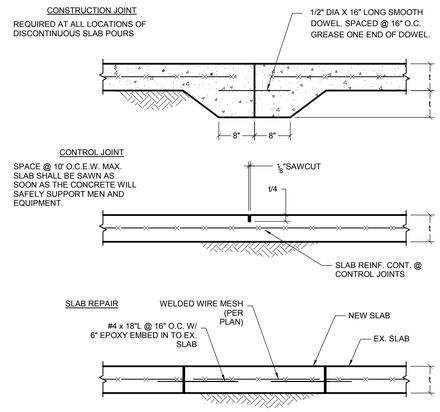
PROJECT NO.	SHEET
4226	S-302



DETAIL NOT TO SCALE

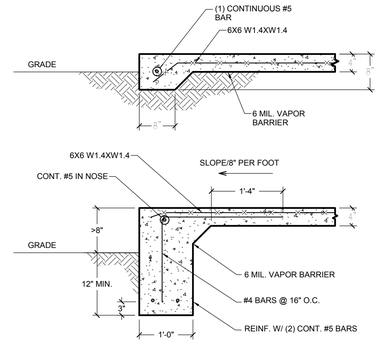
1 S-501 TYP CMU WALL REINF

1/4" = 1'-0"



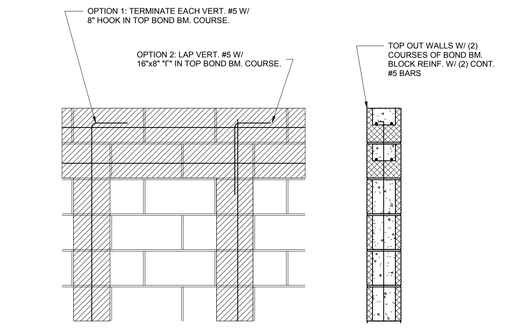
2 S-501 SLAB FINISHING

3/4" = 1'-0"



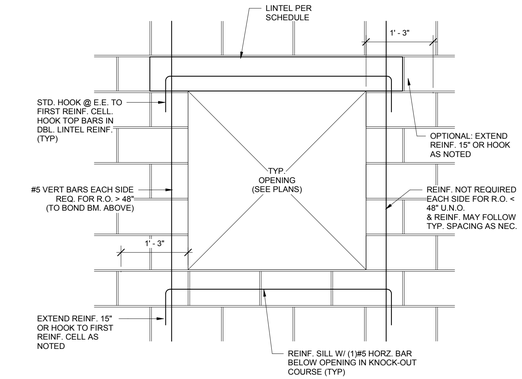
3 S-501 TYP SLAB PERIMETER HAUNCH REINF

3/4" = 1'-0"



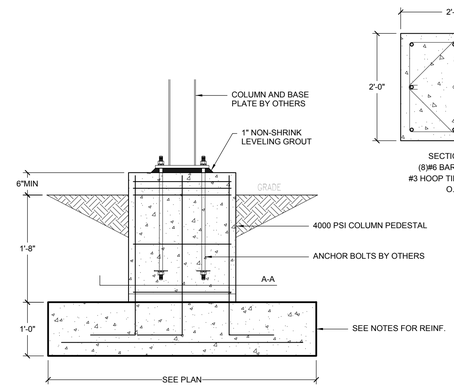
4 S-501 TYP. CMU WALL TOP OUT REINF.

3/4" = 1'-0"



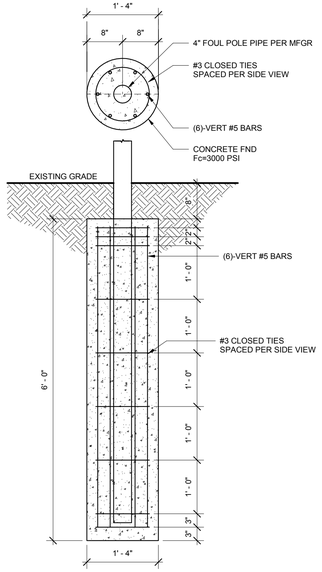
5 S-501 TYP.CMU WALL OPENING REINF.

3/4" = 1'-0"



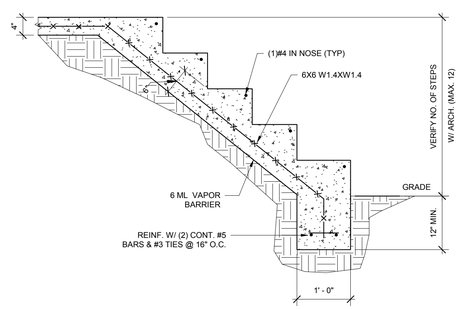
6 S-501 COLUMN PEDESTAL REINF

3/4" = 1'-0"



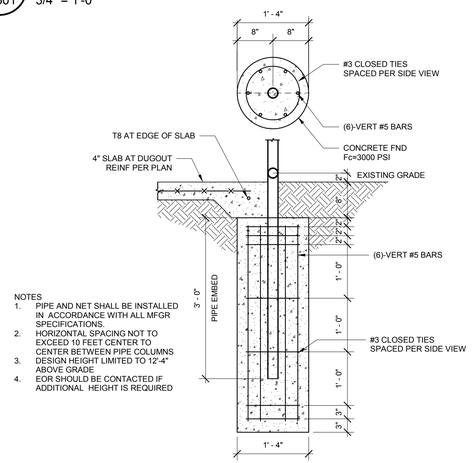
9 S-501 FOUL POLE FOUNDATION

3/4" = 1'-0"



7 S-501 TYP. S.O.G. STEPS

3/4" = 1'-0"



8 S-501 DUGOUT PIPE RAILING FOUNDATION

3/4" = 1'-0"

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SHEET TITLE:

DETAILS

PROJECT NO. 4226

SHEET S-501

HVAC Legend:

22"x16" — RECTANGULAR GALVANIZED STEEL DUCTWORK. SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. SEE DUCTWORK AND INSULATION NOTES ON THIS SHEET.

16"ϕ — ROUND SNAPLOCK GALVANIZED STEEL DUCTWORK, EXTERNALLY INSULATED. SIZE SHOWN IS SHEET METAL DIAMETER.

6"ϕ — FACTORY FABRICATED/INSULATED SOUND ATTENUATING FLEXIBLE ROUND DUCT, SIZE SHOWN IS INSIDE DIAMETER. FLEXMASTER 8M OR APPROVED EQUAL. SEE DUCTWORK AND INSULATION NOTES ON THIS SHEET.

22"x16" — SQUARE THROAT ELBOW IN RECTANGULAR DUCT WITH AERODYNAMIC TURNING VANES. SEE DUCTWORK AND INSULATION NOTES ON THIS SHEET.

22"x16" — LONG RADIUS ELBOW IN RECTANGULAR DUCT.

LONG RADIUS ELBOW IN ROUND SNAPLOCK DUCT, ADJUSTABLE TYPE.

MVD — MANUAL VOLUME DAMPER IN RECTANGULAR DUCT, OPPOSED BLADE TYPE. PROVIDE WITH LOCKING QUADRANT REGULATOR.

MVD — MANUAL VOLUME DAMPER IN ROUND SNAPLOCK DUCT.

MVD MVD MVD MVD — PARALLEL FLOW BRANCH IN RECTANGULAR DUCT MAIN WITH MANUAL VOLUME DAMPER IN EACH BRANCH DUCT

MVD — RECTANGULAR BRANCH DUCT TAKEOFF FROM RECTANGULAR DUCT MAIN WITH 45° COLLAR. PROVIDE MANUAL VOLUME DAMPER IN BRANCH DUCT.

MVD — ROUND BRANCH DUCT TAKEOFF FROM RECTANGULAR DUCT MAIN. BRANCH DUCT SHALL BE FLEXIBLE ROUND DUCT OR ROUND SNAPLOCK DUCT AS INDICATED. ROUND DUCT TAP IN SHALL BE MADE WITH SIDE TAKE-OFF FITTING WITH MANUAL VOLUME DAMPER. SEE "ROUND DUCT TAP-IN MOUNTING DETAIL".

RECTANGULAR SUPPLY OR OUTSIDE AIR DUCT IN SECTION

RECTANGULAR RETURN OR EXHAUST AIR DUCT IN SECTION

ROUND DUCT IN SECTION

RECTANGULAR-TO-ROUND DUCT TRANSITION

FLEXIBLE DUCT CONNECTOR

ACD — RUSKIN CD-60 AUTOMATIC CONTROL DAMPER IN RECTANGULAR DUCT, MOTORIZED, PROVIDE DUCT ACCESS DOOR AT EACH AUTOMATIC CONTROL DAMPER.

UP — DUCT TURNING UP TO AVOID OBSTRUCTION. USE 45° ELBOWS WHERE POSSIBLE.

6"x6"CD 105 CFM — CEILING DIFFUSER. LOUVERED FACE WITH EXTENDED PANEL DESIGNED FOR INSTALLATION IN A 2'x2' LAY-IN CEILING GRID. SIZE AND AIR FLOW AS INDICATED. DIRECTION OF THROW AS INDICATED BY ARROWS. PROVIDE WITH FACTORY FABRICATED SQUARE-TO-ROUND ADAPTER. SEE "TYPICAL LOUVERED FACE CEILING DIFFUSER MOUNTING DETAIL". TITUS MODEL TDC OR APPROVED EQUAL.

8"x4"CR 60 CFM — RECTANGULAR CEILING REGISTER. CURVED BLADE, ALUMINUM CONSTRUCTION WITH STEEL COMPONENTS. RECTANGULAR NECK SIZE AND AIR FLOW AS INDICATED. DIRECTION OF THROW AS INDICATED BY ARROWS. PROVIDE WITH OPPOSED BLADE VOLUME CONTROL DAMPER OPERABLE FROM FACE OF REGISTER. TITUS MODEL 250-AA OR ENGINEER APPROVED EQUAL BY E.H. PRICE OR NAILOR.

12"x8"SWR 240 CFM — SIDEWALL REGISTER. EXTRUDED ALUMINUM AIRFOIL DOUBLE DEFLECTION BLADES AND ALUMINUM FRAME. RECTANGULAR NECK SIZE AND AIR FLOW AS INDICATED. DIRECTION OF THROW AS INDICATED BY ARROW. PROVIDE WITH OPPOSED BLADE VOLUME DAMPER OPERABLE FROM FACE OF REGISTER. TITUS MODEL 272FS OR ENGINEER APPROVED EQUAL BY E.H. PRICE OR NAILOR. (SWG - SIDE WALL GRILLE SHALL BE SAME, LESS VOLUME DAMPER).

6"x6"TG 100 CFM — TRANSFER GRILLE WITH INTERNALLY INSULATED DUCTWORK. LOUVERED FACE TYPE GRILLE, RECTANGULAR NECK SIZE AND AIR FLOW AS INDICATED. DUCT SHALL BE SAME AS NECK SIZE OF GRILLE OR AS INDICATED. TITUS MODEL 350RL OR ENGINEER APPROVED EQUAL BY E.H. PRICE OR NAILOR.

14"x14" RAG / 14"x14" RAR — RETURN AIR GRILLE, LOUVERED FACE TYPE. PROVIDE EXTENDED PANEL FOR ALL GRILLES LOCATED IN 2'x2' LAY-IN CEILING GRID. TITUS MODEL 350RL OR ENGINEER APPROVED EQUAL BY E.H. PRICE OR NAILOR. RAR SAME AS RAG EXCEPT PROVIDE WITH OPPOSED BLADE VOLUME CONTROL DAMPER OPERABLE FROM FACE OF REGISTER.

14"x14" EG / 14"x14" TG — EXHAUST GRILLE OR TRANSFER GRILLE, LOUVERED FACE TYPE. PROVIDE EXTENDED PANEL FOR ALL GRILLES LOCATED IN 2'x2' LAY-IN CEILING GRID. TITUS MODEL 350RL OR ENGINEER APPROVED EQUAL BY E.H. PRICE OR NAILOR.

48"x48" RAL/EAL/OAL 6,000 CFM — IMPACT RESISTANT EXTERIOR WALL LOUVER FOR AIR INTAKE, EXHAUST OR RELIEF AIR. LOUVER SHALL BE A WIND-DRIVEN RAIN RESISTANT AND IMPACT RESISTANT STATIONARY LOUVER AS TESTED BY THE AMCA 500-L WIND-DRIVEN RAIN PENETRATION TEST AND MUST BE APPROVED FOR USE IN THE HIGH VELOCITY HURRICANE ZONE. LOUVER SHALL BE A UNIVERSAL FLANGE FRAME DESIGN WITH A FRAME DEPTH OF 3 INCHES. PROVIDE WITH BIRD SCREEN, VERTICAL BLADE SUPPORTS (AS REQUIRED), LOUVER SLEEVE. LOUVER SHALL BE CONSTRUCTED OF EXTRUDED ALUMINUM AND WITH A FACTORY "KYNAR" FINISH COLOR AS DIRECTED BY THE ARCHITECT. LOUVERS SHALL BE RUSKIN MODEL EME362DSFL OR ENGINEER APPROVED EQUAL. MANUFACTURER INSTALLATION INSTRUCTIONS MUST BE FOLLOWED STRICTLY TO ENSURE MISSILE TEST COMPLIANCE. SEE ARCHITECTURAL FOR INSTALLATION DETAILS AND MOUNTING LOCATIONS/HEIGHTS.

UNDERCUT DOOR 3/4" TO ALLOW AIR FLOW IN THE DIRECTION INDICATED.

SUPPLY OR OUTSIDE AIR FLOW

RETURN, EXHAUST, OR TRANSFER AIR FLOW

T — DIGITAL 7 DAY PROGRAMMABLE THERMOSTAT. MOUNT AT 60" ABOVE FINISHED FLOOR IN APPROXIMATE LOCATION INDICATED. COORDINATE EXACT LOCATION OF THERMOSTATS IN THE FIELD WITH THE ENGINEER. DO NOT MOUNT IN DIRECT AIRFLOW PATH FROM A SUPPLY AIR DEVICE. PROVIDE ONE THERMOSTAT FOR EACH UNIT. PROVIDE PROGRAMMABLE CONTROLLERS WITH AUXILIARY DEVICE CONTROL FOR EACH OUTSIDE AIR UNIT.

C — CONDENSATE PIPE. CONDENSATE PIPING SHALL BE SCH. 40 GALVANIZED STEEL TRAP AT UNIT AND ROUTE TO POINT INDICATED ON PLAN. CONSTRUCT ALL TRAPS FROM TEES WITH A CAP ON EACH TEE. INSULATE ALL CONDENSATE DRAINS WITH 3/4" THICK UNICELLULAR FOAM INSULATION.

HVAC Design Conditions

Panama City, Florida

	INDOOR		OUTDOOR*
SUMMER:	72°F db 50% RH	SUMMER:	92.7°F db 76.7°F wb
WINTER:	70°F db	WINTER:	20°F db
		DEHUMIDIFICATION ENTERING AIR	83.7°F db 80.5°F wb 79.5°F dp

*FROM 2009 ASHRAE 0.4% DESIGN DATA

ARCHITECTURAL NOTES:

VERIFY FINAL LOCATION OF A/C UNIT OUTDOOR SECTION WITH ARCHITECT PRIOR TO INSTALLATION.

General Project Mechanical Requirements:

1. REMOVE FROM THE SITE AND LEGALLY DISPOSE OF ALL WASTE GENERATED FROM PERFORMING WORK SHOWN ON CONSTRUCTION DOCUMENTS OF THIS PROJECT.
2. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND ALL OTHER TRADES ALL REQUIRED OPENINGS IN WALLS, FOUNDATIONS, FLOORS, ROOFS AND BUILDING STRUCTURAL MEMBERS RELATED TO WORK SHOWN ON THE MECHANICAL DRAWINGS.
3. THE MECHANICAL CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS AND BE RESPONSIBLE FOR ALL RELATED CLEARANCES IN THE FIELD. PROVIDE ADEQUATE MAINTENANCE CLEARANCE AROUND EACH EQUIPMENT ITEM PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS PER NATIONAL ELECTRIC CODE REQUIREMENTS. COORDINATE EXACT LOCATION OF ALL OUTDOOR UNITS IN THE FIELD WITH THE ENGINEER AND THE OWNER.
4. INSTALL EQUIPMENT AND RUN PIPES AND DUCTS PARALLEL WITH OR AT RIGHT ANGLES TO THE WALLS OF THE BUILDING UNLESS SHOWN OTHERWISE ON THE DRAWINGS. PARALLELED RUNS SHALL BE STRAIGHT AND TRUE WITH OFFSETS UNIFORM AND SYMMETRICAL.
5. ENGINEER HAS VERIFIED DIMENSIONAL SUITABILITY OF BASIS-OF-DESIGN MANUFACTURERS AS LISTED IN THE EQUIPMENT SCHEDULES. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY EQUIPMENT PROPOSED TO BE INSTALLED FITS ALL REQUIRED PROJECT DIMENSIONS. ANY ADDITIONAL WORK DUE TO EQUIPMENT LARGER THAN THAT SHOWN SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
6. CONTRACTOR SHALL PROVIDE FIRE DAMPERS, SMOKE DAMPERS, FIRE/SMOKE DAMPERS (DUCTS) AND FIRESTOPPING (PIPING) AT ALL MECHANICAL SYSTEM PENETRATIONS OF RATED WALLS AS SHOWN ON THE ARCHITECTURAL DRAWINGS. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS TO DETERMINE THE REQUIRED RATING OF THE WALL ASSEMBLY TO BE PENETRATED. ALL FIRE DAMPERS AND FIRESTOPPING SHALL BE FURNISHED AND INSTALLED ACCORDING TO U.L. APPROVED DETAILS FOR EACH PARTICULAR INSTALLATION REQUIRED. THE CONTRACTOR SHALL PROVIDE THRU PENETRATION FIRESTOPPING IN ACCORDANCE WITH CODES AROUND DUCT PENETRATIONS OF RATED WALLS THAT DO NOT REQUIRE FIRE DAMPERS AND AROUND DUCT PENETRATIONS OF SMOKE WALLS THAT DO NOT REQUIRE SMOKE DAMPERS.

Ductwork and Insulation Notes:

1. ALL LOW-PRESSURE SUPPLY AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED WITH 2" THICK DUCTWRAP WITH A MINIMUM INSTALLED R-VALUE OF 6.0. DUCT SIZES INDICATED ARE ACTUAL SHEET METAL DIMENSIONS. ALL DUCTWORK SHALL BE SEALED TO 100% CLOSURE USING MASTIC ON ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS AND SPIN-IN FITTINGS.
2. ALL RETURN AIR DUCTWORK SHALL BE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A. ALL RETURN AIR DUCT SHALL BE INTERNALLY INSULATED WITH 1" THICK ACOUSTICAL DUCT LINER; ACOUSTIC DUCT LINER SHALL HAVE THE AIR STREAM SURFACE COATED WITH AN EPA REGISTERED BIOCIDE TO PREVENT MICROBIAL GROWTH MEETING THE REQUIREMENTS OF ASTM C1338, ASTM G21, AND ASTM G22. ACOUSTIC INSULATION SHALL BE AS MANUFACTURED BY OWENS CORNING "QUIET-R" OR ENGINEER APPROVED EQUAL. CONTRACTOR SHALL INSTALL THE ACOUSTICAL LINING WITH 90% ADHESIVE COVERAGE AND IN STRICT COMPLIANCE WITH THE INSULATION MANUFACTURER'S RECOMMENDATIONS.
3. ALL OUTSIDE AIR INTAKE DUCTWORK SHALL BE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED WITH 2" THICK DUCTWRAP WITH A MINIMUM INSTALLED R-VALUE OF 6.0. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
4. ALL EXHAUST AIR DUCTWORK SHALL BE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1" W.G. (NEG.). ALL TRANSFER AND RELIEF AIR DUCTWORK SHALL BE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1" W.G. (NEG.). ALL EXHAUST, TRANSFER AND RELIEF AIR DUCTWORK SHALL BE SEAL CLASS A, UNINSULATED. DUCT SIZES INDICATED ARE ACTUAL SHEET METAL DIMENSIONS.
5. FLEXIBLE DUCT INSTALLATION SHALL MEET THE FOLLOWING MINIMUM STANDARDS: 1) DUCTS SHALL BE FULLY EXTENDED, 2) BENDS SHALL MAINTAIN A CENTERLINE RADIUS OF NOT LESS THAN ONE DUCT DIAMETER, 3) TERMINAL DEVICES SHALL BE SUPPORTED INDEPENDENTLY OF FLEXIBLE DUCT, 4) HORIZONTAL DUCT SHALL BE SUPPORTED AT INTERVALS NOT GREATER THAN 5 FEET. DUCT SAG BETWEEN SUPPORTS SHALL NOT EXCEED 1/2 INCH PER FOOT OF LENGTH. SUPPORTS SHALL BE PROVIDED WITHIN 1.5 FEET OF INTERMEDIATE FITTINGS AND BETWEEN INTERMEDIATE FITTINGS AND BENDS, 5) VERTICAL DUCT SHALL BE STABILIZED WITH SUPPORT STRAPS AT NOT GREATER THAN 6 FEET, 6) HANGARS, SADDLES, AND OTHER SUPPORTS SHALL MEET THE DUCT MANUFACTURER'S RECOMMENDATIONS AND IN NO CASE SHALL THE MATERIAL IN DIRECT CONTACT WITH AND SUPPORTING THE FLEXIBLE DUCT BE LESS THAN 1-1/2 INCHES WIDE.
6. ALL DUCT CONNECTIONS / MECHANICAL ATTACHMENTS SHALL COMPLY WITH SECTION 603.1.6 OF THE FLORIDA BUILDING CODE. DUCT CLOSURE SYSTEMS SHALL COMPLY WITH SECTION 603.1.7 OF THE FLORIDA BUILDING CODE.
7. MOUNT ALL DUCTWORK WITHIN 18" OF CEILING. AVOID ROUTING DUCTWORK OVER LIGHTS WHEREVER POSSIBLE. WHERE DUCTWORK MUST BE ROUTED OVER LIGHTS, MAINTAIN A 6" CLEARANCE BETWEEN OUTER SURFACE OF DUCT INSULATION AND TOP OF LIGHTS.
8. SUPPORT ALL DUCTWORK AND EQUIPMENT AS DETAILED IN THE DRAWINGS AND SPECIFICATIONS. ATTACHMENTS TO STRUCTURE SHALL BE AS APPROVED BY STRUCTURAL ENGINEER.
9. MARK CEILING TILES BELOW FANS AND ACCESS DOORS AS DIRECTED BY OWNER.
10. PROVIDE APPROPRIATELY SIZED DUCT ACCESS DOORS AT EACH AUTOMATIC CONTROL DAMPER, MANUAL VOLUME DAMPER FOR FLOW BALANCING AT AIR HANDLING UNITS, AIR FLOW MEASURING PROBE, AND ANY POSITION SENSITIVE CONTROL DEVICE MOUNTED IN DUCTWORK. DUCT ACCESS DOORS ARE ALSO REQUIRED FOR ALL FIRE DAMPERS.
11. ALL MANUAL VOLUME DAMPERS IN LOW PRESSURE RECTANGULAR DUCTS SHALL BE RUSKIN 'MD35' 16 GAUGE GALVANIZED STEEL WITH EXTENDED SHAFT AND LOCKING HAND QUADRANT, OBSB050B OUTBOARD SUPPORT BRACKET FOR EXTENDED SHAFT WITH BEARING, AND HDHQ SERIES HAND QUADRANT BRACKET AND ARM. PROVIDE MANUAL VOLUME DAMPER IN THE DUCT RUNOUT TO EACH RETURN AIR GRILLE (RAG) WHETHER OR NOT SHOWN ON THE PLANS.
12. ALL GRILLES, REGISTERS, AND DIFFUSERS SHALL BE TITUS, E.H. PRICE OR NAILOR - NO OTHER MANUFACTURER'S WILL BE ACCEPTED. EXTERIOR LOUVERS SHALL BE RUSKIN, POTTORF, OR GREENHECK - NO OTHER MANUFACTURER'S WILL BE ACCEPTED.
13. ALL OUTSIDE AIR INLETS SHALL BE LOCATED A MINIMUM OF 10 FEET FROM ANY EXHAUST AIR OUTLET OR PLUMBING VENT STACK. COORDINATE WITH THE PLUMBING DRAWINGS AND WITH THE PLUMBING AND GENERAL CONTRACTORS IN THE FIELD.
14. ALL ROOF PENETRATIONS SHALL COMPLY WITH ARCHITECTURAL STANDARD ROOF PENETRATION DETAIL.
15. PROVIDE MANUAL VOLUME DAMPERS IN ALL BRANCH DUCT CONNECTIONS, REGARDLESS OF DUCT SIZE, DUCT PRESSURE CLASS OR DUCT SERVICE (SUPPLY, RETURN, OUTSIDE AIR OR RELIEF AIR), AND REGARDLESS OF WHERE THE BRANCH CONNECTION OCCURS.

Grille and Register Notes:

1. ALL SUPPLY, RETURN, EXHAUST, TRANSFER AND RELIEF AIR DIFFUSERS, GRILLES OR REGISTERS LOCATED IN SUSPENDED CEILINGS SHALL HAVE 2'x2' EXTENDED PANELS FOR MOUNTING IN CEILING T-BARS. ALL SUPPLY, RETURN, EXHAUST, TRANSFER AND RELIEF AIR DIFFUSERS, GRILLES OR REGISTERS LOCATED IN GYPSUM CEILINGS SHALL NOT HAVE EXTENDED PANELS AND SHALL BE DESIGNED FOR SURFACE MOUNTING IN GYP. BOARD CEILING.
2. CONTRACTOR SHALL FIELD-COORDINATE EXACT LOCATION OF ALL SUPPLY, RETURN, EXHAUST, TRANSFER AND RELIEF AIR GRILLES WITH THE ARCHITECT AND ENGINEER DURING CONSTRUCTION.

Abbreviations

ACD	AUTOMATIC CONTROL DAMPER	OA	OUTSIDE AIR
AD	ACCESS DOOR	OAL	OUTSIDE AIR LOUVER
AFF	ABOVE FINISHED FLOOR	O.C.	ON CENTER
AHU-#	AIR HANDLING UNIT. SEE SCHEDULE	RA	RETURN AIR
CD	CEILING DIFFUSER	RAL	RELIEF AIR LOUVER
CR	CEILING REGISTER	RG	RETURN GRILLE
CSR	CURRENT SENSING RELAY	SA	SUPPLY AIR
DDC	DIRECT DIGITAL CONTROL SYSTEM	SAR	SUPPLY AIR REGISTER
EA	EXHAUST AIR	SD	SMOKE DAMPER
EAL	EXHAUST AIR LOUVER	SS	STAINLESS STEEL
EF-#	EXHAUST FAN. SEE SCHEDULE	SWR	SIDEWALL REGISTER (SUPPLY AIR)
EG	EXHAUST GRILLE	SWG	SIDEWALL GRILLE (SUPPLY AIR)
ER	EXHAUST REGISTER	TG	TRANSFER GRILLE
EX	EXISTING	TYP	TYPICAL
FD	FIRE DAMPER	VAV	VARIABLE AIR VOLUME
FSD	COMBINATION FIRE/SMOKE DAMPER	VD	VOLUME DAMPER
MVD	MANUAL VOLUME DAMPER	VFD	VARIABLE FREQUENCY DRIVE
		VRF/VRV	VARIABLE REFRIGERANT VOLUME
		W/	WITH

EQUIPMENT ANCHORING NOTES:

1. ALL OUTDOOR MECHANICAL EQUIPMENT SHALL BE ANCHORED TO THEIR CONCRETE PAD TO SUSTAIN THE FORCES OF 110 MPH WINDS. THE CONTRACTOR SHALL INSTALL "ANCHOR-IN-A-STORM" ANCHORING SYSTEM AS MANUFACTURED BY CARSON INDUSTRIES. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. ALL ROOFTOP EXHAUST FANS AND CAPS SHALL BE SECURELY FASTENED TO ROOF CURBS USING FOUR (4) #14 STAINLESS STEEL SCREWS ON EACH SIDE OF CURB CAP.

REFRIGERANT PIPING NOTES:

IMPORTANT: CONTRACTOR SHALL SUBMIT DETAILED REFRIGERANT PIPING DRAWINGS INDICATING PIPE SIZES AND ROUTING OF ALL REFRIGERANT PIPING. DRAWING SHALL ALSO INDICATE THE LOCATION OF ALL ACCESSORIES. SUBMIT DRAWINGS WITH EQUIPMENT SHOP DRAWINGS PRIOR TO ORDERING ANY MATERIAL.

1. REFRIGERANT PIPING FOR SPLIT SYSTEM HEAT PUMPS AND OUTSIDE AIR UNITS SHALL BE SIZED, ROUTED AND CONFIGURED AS RECOMMENDED BY THE MANUFACTURER FOR THE SPECIFIC APPLICATION FOR EACH UNIT/SPLIT SYSTEM.
2. INSULATE SUCTION LINES WITH 3/4" THICK UNICELLULAR INSULATION. ALL INSULATION LOCATED OUTDOORS SHALL BE AP ARMAFLEX BLACK LAPSEAL INSULATION.
3. COVER INSULATION LOCATE OUTDOORS CONTINUOUSLY WITH CORRUGATED ALUMINUM JACKETING WITH ALL JOINTS SEALED WATERTIGHT WITH CLEAR SILICONE INSULATION THEN SECURED WITH ALUMINUM BANDING.
4. PROVIDE REFRIGERANT GAUGE CONNECTION AND REFRIGERANT SERVICE VALVE IN BOTH SUCTION AND LIQUID LINES AND FILTER-DRIER AND SIGHT-GLASS WITH MOISTURE INDICATOR IN LIQUID LINE, EITHER FACTORY OR FIELD INSTALLED AS REQUIRED.
5. PROVIDE TRAP IN REFRIGERANT PIPING WHERE/AS RECOMMENDED BY UNIT MANUFACTURER.
6. AT OUTDOORS REFRIGERANT PIPING, SECURE PIPING WITH HOT-DIPPED GALVANIZED UNISTRUT WITH ALL HOT-DIPPED GALVANIZED HARDWARE AND FASTENERS - COLD GALVANIZE ALL CUT ENDS OF STRUT.

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CHARLES DENNIS BROWN LICENSE No. 42140 STATE OF FLORIDA PROFESSIONAL ENGINEER

CHARLES D. BROWN, PE #42140

RELEASE:

CONSTRUCTION DOCUMENTS

SCALE:	DATE:
As indicated	05/04/2017
DRAWN: R. J. PICKERING	CHECKED: C. D. BROWN

NO.	REVISION:	DATE:

SHEET TITLE:

HVAC LEGEND AND NOTES

PROJECT NO.	SHEET
4226	M1

DX SPLIT SYSTEM AIR TO AIR HEAT PUMP UNIT SCHEDULE

MARK	LOCATION	INDOOR SECTION										OUTDOOR SECTION							AHRI COOLING DATA (3)			AHRI HEATING DATA (3)		AUXILIARY HEATER DATA						REMARKS
		TOTAL AIR CFM	OUTSIDE AIR CFM	EXTERNAL STATIC PRESSURE INCHES W.G.	MAXIMUM FAN HORSEPOWER	ELECTRICAL DATA (12)			FILTER DATA			COMPRESSOR		CONDENSER FANS		ELECTRICAL DATA			TOTAL MINIMUM NET CAPACITY BTU/HR	SENSIBLE MINIMUM NET CAPACITY BTU/HR	MINIMUM S.E.E.R.	MINIMUM HIGH TEMP. ARI RATING @ 47 Fdb		TYPE	TOTAL KW	NO. OF STEPS	ELECTRICAL DATA			
						VOLTS	PHASE	Hz	MAXIMUM FACE VELOCITY - FPM	TYPE	THICK	QUANTITY	MAXIMUM RATED LOAD AMPS EA.	QUANTITY	MAXIMUM FULL LOAD AMPS EA.	VOLTS	PHASE	Hz				CAPACITY BTU/HR	H.S.P.F.				VOLTS	PHASE	Hz	
HP-1	SEE PLANS	2,700	640	0.75 (1)	1.5	480	3	60	440	(2)	1"	1	13.0	1	1.6	460	3	60	84,660	63,740	11.0	85,070	7.7	(4)	15.0	1	460	3	60	(5)(6)(7)(8)(9)(10)(11)(12)(13)

SPLIT SYSTEM HEAT PUMP UNIT NOTES:

(1) DOES NOT INCLUDE PRESSURE DROP THROUGH FILTERS OR ELECTRIC RESISTANCE HEATER.

(2) DISPOSABLE

(3) S.E.E.R. - SEASONAL ENERGY EFFICIENCY RATIO. RATED IN ACCORDANCE WITH AIR CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE (AHRI) STANDARD 210/240 AT AHRI STANDARD CONDITIONS.

(4) ELECTRIC RESISTANCE. KW INDICATED IS RATED AT VOLTAGE INDICATED.

(5) PROVIDE REMOTE CONDENSING UNIT WITH COIL GUARDS.

(6) REFRIGERANT PIPING SIZE, ROUTING, AND CONFIGURATION SHALL BE AS RECOMMENDED BY MANUFACTURER OF HEAT PUMP UNIT. INSULATE ENTIRE LENGTH OF EACH SUCTION LINE WITH MINIMUM 3/4" THICK UNICELLULAR FOAM INSULATION.

(7) PROVIDE REMOTE CONDENSING UNITS WITH FACTORY ANTI-SHORT CYCLE (TIME DELAY ON RESTART) CONTROLS.

(8) CONDENSATE PIPE SHALL BE 1" SCHD. 80 PVC. TRAP AT UNIT AND ROUTE TO FLOOR DRAIN. CONSTRUCT ALL TRAPS FROM TEES WITH A CAP ON EACH TEE.

(9) ROUTE REFRIGERANT AND CONDENSATE PIPING TO ALLOW CONVENIENT ACCESS TO HEAT PUMP INDOOR UNIT FOR SERVICING. ALLOW A MINIMUM OF 3'-0" IN FRONT OF ALL ACCESS PANELS.

(10) BASIS OF DESIGN - TRANE MODEL TWA090D4 REMOTE HEAT PUMP UNIT AND TRANE MODEL TWE090 INDOOR UNIT OR APPROVED EQUALS.

(11) PROVIDE UNITS WITH PHASE PROTECTION.

(12) UNITS AND CONTROLS SHALL BE SETUP SUCH THAT THE ELECTRICAL HEAT IS THE SECOND STAGE OF HEAT AND IS LOCKED OUT ANY TIME THE COMPRESSOR IS OPERATING EXCEPT WHEN THE UNIT IS IN DEFROST MODE.

(13) PROVIDE FACTORY COIL COATING ON CONDENSER COIL TO PREVENT CORROSION.

FAN SCHEDULE

MARK	TYPE (1)	DRIVE (2)	SERVICE (3)	LOCATION	CONTROL	INTERLOCKS	PERFORMANCE DATA				ELECTRICAL DATA				REMARKS
							AIR FLOW CFM	EXTERNAL STATIC PRESS. INCHES WC	MAXIMUM RPM	MAX SONES	MINIMUM HORSEPOWER	VOLTS	PHASE	HERTZ	
EF-107	CEF	DD	EA	SEE PLANS	DDC SYSTEM	(6)	70	0.25	778	1.1	30.2 WATTS	120	1	60	COOK MODEL GC-146 (4)(5)
EF-108	CEF	DD	EA	SEE PLANS	DDC SYSTEM	(6)	210	0.25	1,065	5.0	88.9 WATTS	120	1	60	COOK MODEL GC-186 (4)(5)
EF-110A	CEF	DD	EA	SEE PLANS	DDC SYSTEM	(6)	100	0.25	889	1.5	37.9 WATTS	120	1	60	COOK MODEL GC-148 (4)(5)
EF-110B	CEF	DD	EA	SEE PLANS	DDC SYSTEM	(6)	50	0.25	671	0.8	25.0 WATTS	120	1	60	COOK MODEL GC-128 (4)(5)
EF-111A	CEF	DD	EA	SEE PLANS	DDC SYSTEM	(6)	100	0.25	889	1.5	37.9 WATTS	120	1	60	COOK MODEL GC-148 (4)(5)
EF-111B	CEF	DD	EA	SEE PLANS	DDC SYSTEM	(6)	50	0.25	671	0.8	25.0 WATTS	120	1	60	COOK MODEL GC-128 (4)(5)

FAN SCHEDULE NOTES:

(1) CEF - CEILING EXHAUST FAN

(2) DD - DIRECT DRIVE

(3) EA - EXHAUST AIR

(4) PROVIDE FAN WITH A SPEED CONTROLLER FOR AIR FLOW BALANCING. MOUNT CONTROLLER WITHIN FAN HOUSING.

(5) PROVIDE MANUFACTURER AND MODEL LISTED OR BY GREENHECK OR PENN ARE ACCEPTABLE, PROVIDED THAT THEY MEET ALL REQUIREMENTS SPECIFIED FOR FANS MANUFACTURED BY LOREN COOK.

(6) INTERLOCK EXHAUST FANS AND OUTSIDE AIR DAMPER FOR HP-1 TO BE ENERGIZED DURING OCCUPIED PERIODS.

MINI-SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE

MARK	INDOOR SECTION										OUTDOOR SECTION								ARI COOLING DATA (3)		REMARKS
	(1)	TOTAL AIR CFM HI-LO	OUTSIDE AIR CFM	FAN ELECTRICAL DATA					FILTER DATA	SOUND PRESSURE LEVEL dB(A)	(2)	SOUND PRESSURE LEVEL dB(A)	ELECTRICAL DATA						TOTAL MINIMUM NET CAPACITY BTU/HR	MINIMUM S.E.E.R.	
				F.L.A.	MINIMUM AMPACITY	MAXIMUM FUSE SIZE	VOLTS/PHASE/HZ						MINIMUM AMPACITY	MAXIMUM FUSE SIZE	VOLTS/PHASE/HZ						
MS-1		713-403	0	-	-	-	230	1	60	FACTORY STANDARD	49		54	18.3	20	230	1	60	18,000	18.0	(4)(5)(6)(7)

MINI-SPLIT SYSTEM AIR CONDITIONER UNIT NOTES:

(1) DAIKIN FTX18NMVJU WALL MOUNTED INDOOR UNIT. PROVIDE WITH FACTORY OPTIONAL CONDENSATE PUMP. PROVIDE WITH FACTORY STANDARD WIRELESS REMOTE CONTROLLER. INSTALL UNIT IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTION MANUAL. RUN ALL PIPING AND CONDUIT CONCEALED. CONTRACTOR SURVEY SITE AND VERIFY ALL CONDITIONS RELATIVE TO MOUNTING EQUIPMENT.

(2) DAIKIN RX18NMVJU OUTDOOR CONDENSING UNIT.

(3) RATED IN ACCORDANCE WITH ARI STANDARD 210/240 AT ARI STANDARD CONDITIONS
S.E.E.R. = SEASONAL ENERGY EFFICIENCY RATIO
E.E.R. = ENERGY EFFICIENCY RATIO

(4) PROVIDE REMOTE CONDENSING UNIT WITH COIL GUARDS.

(5) PROVIDE REMOTE CONDENSING UNIT WITH FACTORY ANTI-SHORT CYCLE (TIME DELAY ON RESTART) CONTROLS.

(6) REFRIGERANT PIPING SIZE, ROUTING, AND CONFIGURATION SHALL BE AS RECOMMENDED BY MANUFACTURER OF AIR CONDITIONING UNIT. MAXIMUM TOTAL LENGTH OF REFRIGERANT PIPING SHALL BE 98 FEET PER MANUFACTURER'S SPECIFICATIONS FOR RX18NMVJU UNIT.

(7) REFRIGERANT PIPING SIZE, ROUTING, AND CONFIGURATION SHALL BE AS RECOMMENDED BY MANUFACTURER OF HEAT PUMP UNIT. INSULATE ENTIRE LENGTH OF EACH SUCTION LINE WITH MINIMUM 3/4" THICK UNICELLULAR FOAM INSULATION.

GENERAL DDC NOTES

ALL DDC WORK TO BE DONE IN SEPERATE CONTRACT.

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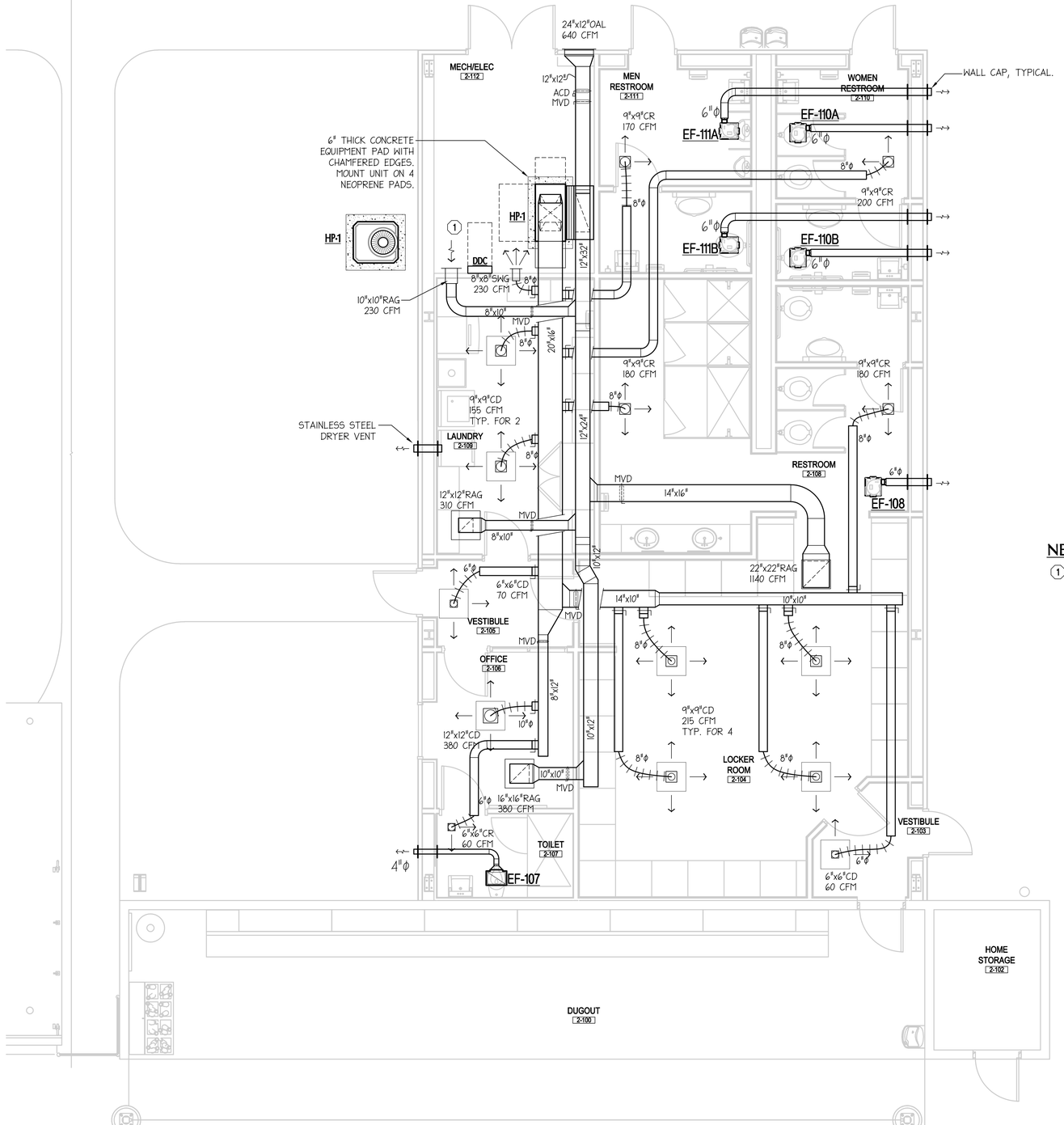
NO.	REVISION:	DATE:

SHEET TITLE:
HVAC SCHEDULES AND NOTES

PROJECT NO.	SHEET
4226	M2



NEW WORK KEY NOTE

1. DDC PANEL TO BE PROVIDED BY OWNER AND INSTALLED UNDER SEPERATE CONTRACT.

NORTH

HVAC FLOOR PLAN - NEW WORK - LOCKER BUILDING

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

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gulfcoast.edu

PROJECT:

GCSC SOFTBALL COMPLEX

Premier Engineering Group, LLC
410 W. Nine Mile Road, Suite A Pensacola, Florida 32534
Phone: (850) 469-0483 Fax: (850) 432-0905
Premier Project #17015

NOT APPROVED UNLESS STAMPED WITH PROFESSIONAL ENGINEER'S SEAL.

CHARLES DENNIS BROWN LICENSE No. 42140 STATE OF FLORIDA PROFESSIONAL ENGINEER

CHARLES D. BROWN, PE #42140

RELEASE:

CONSTRUCTION DOCUMENTS

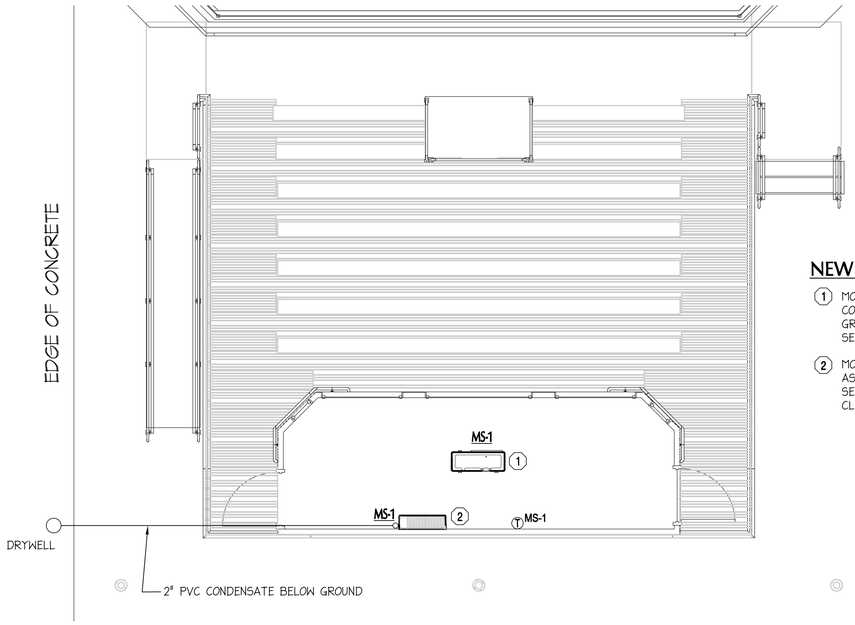
SCALE:	DATE:
As indicated	05/04/2017
DRAWN: R. J. PICKERING	CHECKED: C. D. BROWN

NO.	REVISION:	DATE:

SHEET TITLE:

HVAC FLOOR PLAN - NEW WORK

PROJECT NO.	SHEET
4226	M3

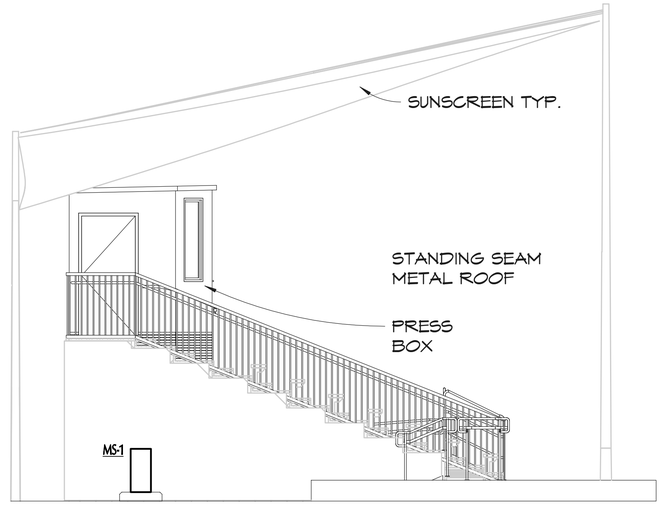


NEW WORK KEY NOTES

1. MOUNT OUTDOOR SECTION ON CONCRETE EQUIPMENT PAD AT GROUND LEVEL BELOW PRESS BOX, SEE SECTION THIS SHEET.
2. MOUNT INDOOR SECTION AS HIGH AS POSSIBLE WHILE MAINTAINING SERVICE AND PERFORMANCE CLEARANCES.

HVAC FLOOR PLAN - NEW WORK - PRESS BOX

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



HVAC SECTION - NEW WORK - PRESS BOX

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

Dewberry | PREBLE-RISH
203 ABERDEEN PKWY, PANAMA CITY, FL 32405
(850) 522-0644

CONSULTANTS:

FLORIDA ARCHITECTS
LICENSE #AA0002730

CLIENT:

GULF COAST STATE COLLEGE

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PANAMA CITY,
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PROJECT:

GCSC SOFTBALL COMPLEX

Premier Engineering Group, LLC
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Premier Project #17013

NOT APPROVED UNLESS STAMPED WITH PROFESSIONAL ENGINEER'S SEAL

CHARLES DENNIS BROWN LICENSE No. 42140 STATE OF FLORIDA PROFESSIONAL ENGINEER

CHARLES D. BROWN, PE #42140

RELEASE:

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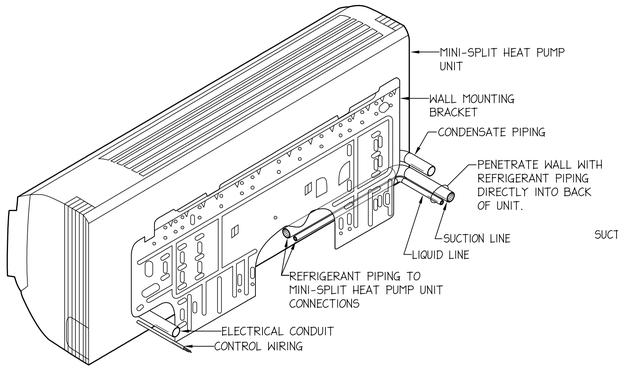
SHEET TITLE:

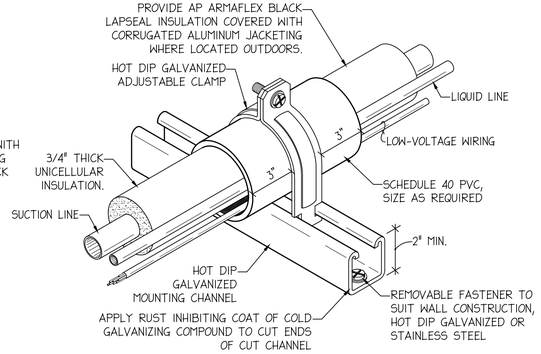
HVAC FLOOR PLAN - NEW WORK

PROJECT NO.	SHEET
4226	M4



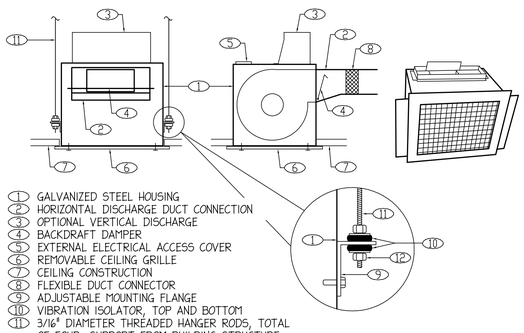
TYPICAL MINI-SPLIT HEAT PUMP UNIT MOUNTING DETAIL

NOT TO SCALE



REFRIGERANT PIPE MOUNTING DETAIL

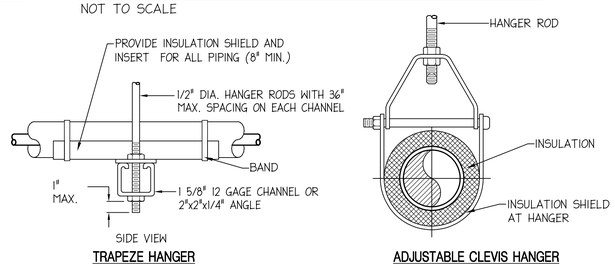
NOT TO SCALE



1. GALVANIZED STEEL HOUSING
2. HORIZONTAL DISCHARGE DUCT CONNECTION
3. OPTIONAL VERTICAL DISCHARGE
4. BACKDRAFT DAMPER
5. EXTERNAL ELECTRICAL ACCESS COVER
6. REMOVABLE CEILING GRILLE
7. CEILING CONSTRUCTION
8. FLEXIBLE DUCT CONNECTOR
9. ADJUSTABLE MOUNTING FLANGE
10. VIBRATION ISOLATOR, TOP AND BOTTOM
11. 3/16" DIAMETER THREADED HANGER RODS, TOTAL OF FOUR, SUPPORT FROM BUILDING STRUCTURE
12. NUT AND WASHER

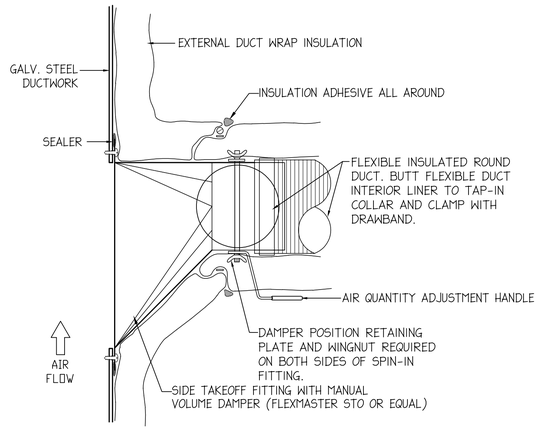
CEILING EXHAUST FAN INSTALLATION DETAIL

NOT TO SCALE



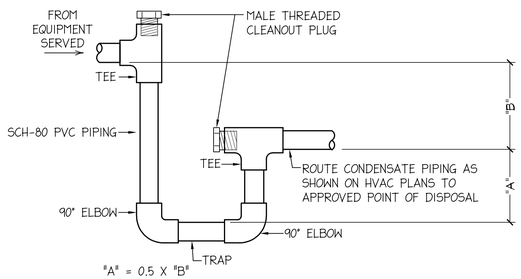
TYPICAL PIPE HANGER INSTALLATION DETAIL

NOT TO SCALE — REFRIGERANT & CONDENSATE PIPING



ROUND DUCT TAP-IN MOUNTING DETAIL

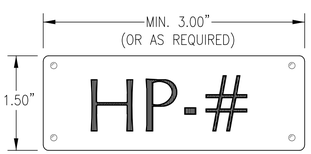
NOT TO SCALE



"A" = 0.5 X "B"
"B" = INTERNAL STATIC PRESSURE + 1" MINIMUM.

CONDENSATE DRAIN DETAIL

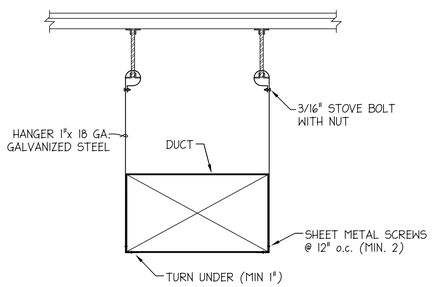
NOT TO SCALE



ENGRAVED STAINLESS STEEL TAG WITH 1" HIGH WHITE LETTERS ON BLACK BACKGROUND. TAG SHALL HAVE ALL EDGES BEVELED AND SMOOTH. SECURE TAG WITH POP RIVETS AT VISIBLE LOCATION ON MECHANICAL EQUIPMENT. LABEL ALL INDOOR AND OUTDOOR EQUIPMENT WITH NOTATION SHOWN ON PLANS.

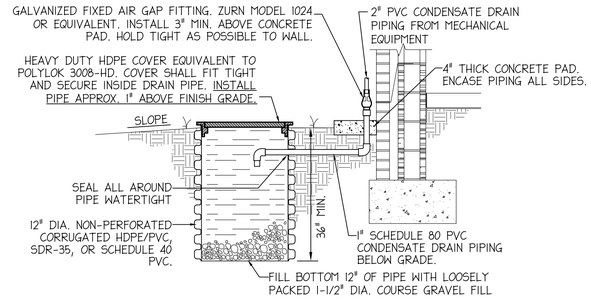
TYPICAL EQUIPMENT ENGRAVED TAG DETAIL

NOT TO SCALE



TYPICAL DUCTWORK HANGER DETAIL

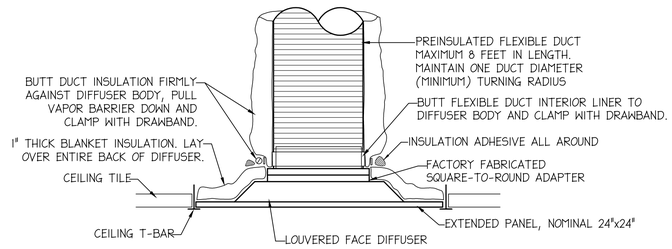
NOT TO SCALE
TYPE-1 (DUCT WIDTH 30" AND LESS)



NOTE: CONTRACTOR MAY PROVIDE BELL AND SPIGOT CONCRETE PIPE AND CAST IRON COVER EQUIVALENT TO NEENAH SERIES R-4044. DRYWELL DIMENSIONS SHALL BE AS SHOWN ABOVE.

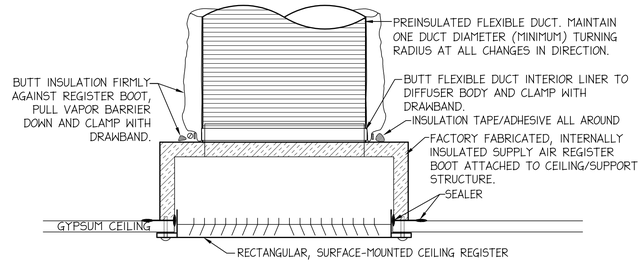
CONDENSATE DRYWELL DETAIL

NOT TO SCALE — LIGHT-DUTY NON-TRAFFIC RATED



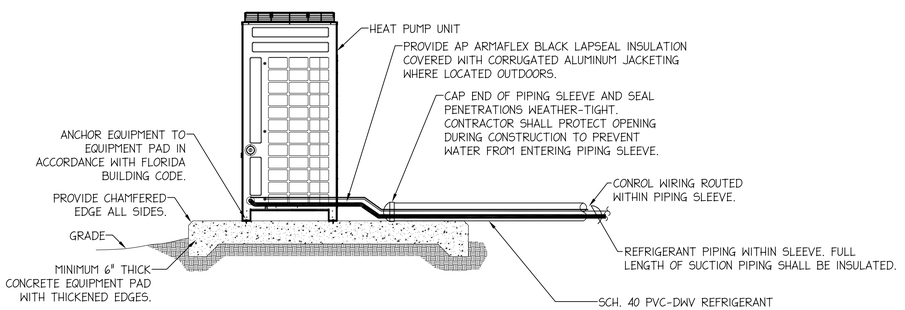
TYPICAL LOUVERED FACE CEILING DIFFUSER MOUNTING DETAIL

NOT TO SCALE



GYPSUM CEILING AIR REGISTER INSTALLATION DETAIL

NOT TO SCALE



HEAT PUMP CONDENSING UNIT INSTALLATION DETAIL

NOT TO SCALE

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FLA FLORIDA ARCHITECTS LICENSE #AA0002730

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HVAC DETAILS

PROJECT NO.	SHEET
4226	M5

General Plumbing Notes:

1. THE CONTRACTOR SHALL EXECUTE WORK SO THAT IT PROCEEDS WITH A MINIMUM INTERFERENCE WITH OTHER TRADES.
2. VERIFY EXACT PLUMBING FIXTURE ROUGH-IN AND FINAL HVAC EQUIPMENT REQUIREMENTS IN THE FIELD.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL CONNECTIONS TO PLUMBING FIXTURES. THIS RESPONSIBILITY INCLUDES, BUT IS NOT LIMITED TO, FURNISHING AND INSTALLING TRAPS, DRAINS, AND SUPPLIES WITH STOPS. FURNISH AND INSTALL PLUMBING FIXTURES INDICATED OR SPECIFIED, COMPLETE WITH EQUIPMENT, FITTINGS, TRIM AND ACCESSORIES INDICATED OR SPECIFIED. EXPOSED WATER PIPING TO FIXTURES SHALL BE CHROME-PLATED BRASS, IPS. ADJUST WATER FLOW THROUGH FIXTURES TO PROVIDE PROPER FLUSHING ACTION WITH THE LEAST AMOUNT OF WATER. FAUCETS SHALL HAVE UNDERDECK AND/OR ESCUTCHEON PLATES, IF REQUIRED, TO STABILIZE FAUCET WITHIN FIXTURE.
4. COORDINATE ROUTING OF WATER SUPPLY, WASTE, & VENT PIPING WITH OTHER TRADES.
5. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES REQUIRED OPENINGS AND EXCAVATIONS.
6. ITEMS PROJECTING THROUGH THE ROOF/WALL SHALL BE FLASHED A MINIMUM OF 12" ABOVE THE ROOF. VENTS SHALL BE A MINIMUM OF 10 FEET FROM ANY OUTSIDE AIR INTAKE. COAT EXPOSED VENT PIPING W/ UV RESISTANT PAINT, COLOR BY ARCHITECT.
7. ACCESS PANEL: WHERE FITTINGS REQUIRING MAINTENANCE OR ISOLATION VALVES ARE LOCATED ABOVE NON-ACCESSIBLE CEILINGS OR SOFFITS (EXAMPLE PLASTER, METAL, OR GYPSUM BOARD), INSTALL AN ACCESS DOOR IN CEILING DIRECTLY BELOW EACH SUCH FITTING/VALVE. ACCESS DOORS SHALL BE AS DESCRIBED IN SPECIFICATIONS.
8. FLOOR DRAIN/SINK SPECIAL NOTE: IN SPACES WHERE FLOOR DRAINS/SINKS ARE SHOWN, DRAINS SHALL BE SET AT LOW POINTS OF FLOOR WITH GRADUAL AND EVEN FLOOR SLOPE TO DRAIN. POCKETS IN THE FLOOR SHALL NOT BE ALLOWED AROUND FLOOR DRAINS/SINKS. PRIOR TO SETTING FLOOR DRAIN/SINK ELEVATIONS, THE PLUMBING CONTRACTOR SHALL REVIEW THE FLOOR SLOPES SHOWN ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS, AND SHALL CLOSELY COORDINATE TOP OF DRAIN ELEVATIONS WITH THE GENERAL CONTRACTOR AND THE FLOOR SLAB INSTALLER. LIQUIDS SHALL POSITIVELY FLOW TO FLOOR DRAINS/SINKS IN EACH LOCATION - STANDING WATER AT ANY POINT SHALL NOT BE ACCEPTABLE. COORDINATE FINAL LOCATION & ELEVATION WITH ARCHITECT PRIOR TO ROUGH-IN. PATCH EXISTING FLOOR TO MATCH SURROUNDING AFTER INSTALLATION OF FLOOR DRAINS.
9. ALL FLOOR DRAINS & FLOOR SINKS NOT RECEIVING SINK FIXTURE DRAINAGE SHALL HAVE A 4" DEEP SEAL AND TRAPS WITH TRAP PRIMERS AS REQUIRED BY CODE. CONTRACTOR TO ENSURE THAT EACH FLOOR DRAIN/SINK DOES NOT EXTEND ABOVE THE ADJACENT FLOOR SURFACE. INSTALL AN ACCESS PANEL FOR TRAP PRIMER FITTINGS LOCATED INSIDE A WALL. NO TRAP PRIMERS ABOVE CEILING SYSTEM. EACH TRAP PRIMER TO HAVE A SHUTOFF BALL VALVE UPSTREAM. COORDINATE OPENINGS WITH ARCHITECT. CONTRACTOR MAY INSTALL WATER CLOSET FLUSH VALVE OR LAVATORY TYPE PRIMER FITTINGS TO SERVE RESTROOM FLOOR DRAINS. INSTALL IN AN INCONSPICUOUS UNOCCUPIED LOCATION (BELOW COUNTERTOP MOUNTED LAVATORY, CUSTODIAL OR MECHANICAL ROOM). CONTRACTOR TO ENSURE THAT EACH TRAP PRIMER VALVE IS CLEANED AND FREE OF DEBRIS JUST PRIOR TO PROJECT COMPLETION.
10. PROVIDE STOPS AND SHOCK ABSORBERS IN ACCORDANCE WITH PDI AND ASSE 1010. AN ACCESS PANEL MUST BE INSTALLED IF WATER HAMMER ARRESTOR IS LOCATED INSIDE A WALL OR ABOVE A HARD CEILING. COORDINATE OPENINGS WITH ARCHITECT.
11. PROVIDE AN ACCESS PANEL IF ISOLATION/SHUTOFF VALVE OR FITTING REQUIRING MAINTENANCE IS LOCATED INSIDE A WALL OR ABOVE A HARD CEILING. VALVES/SERVICABLE FITTINGS SHALL BE LOCATED WITHIN REACH OF ACCESS DOOR OR LAY-IN CEILING SYSTEM (18" MAX.). COORDINATE OPENINGS WITH ARCHITECT. MARK CEILING TILES AS REQUIRED PER SPECIFICATIONS.
12. PROVIDE DIELECTRIC UNIONS AT DISSIMILAR METAL CONNECTIONS.
13. INSULATE DOMESTIC WATER AND WASTE PIPING UNDER LAVATORIES AND SINKS USING "LAVGUARD2 E-Z SERIES" MOLDED VINYL PIPING COVERS. COVER PIPING, FITTING, VALVES, AND TRAPS EXPOSED TO VIEW.
14. ROUTE PIPING AS HIGH AS POSSIBLE AND SO AS TO CAUSE MINIMAL INTERFERENCE FOR MAINTENANCE OF ALL EQUIPMENT. UNLESS OTHERWISE NOTED, NEW WATER SUPPLY PIPING IS ROUTED ABOVE THE CEILING AND BELOW ATTIC/ROOF INSULATION. BRANCH PIPING SHALL BE ROUTED WITHIN WALL CAVITY. PATCH WALLS TO MATCH SURROUNDING.
15. PROVIDE SHUTOFF VALVE TO EACH SILLCOCK WITH VALVE IDENTIFICATION AS REQUIRED BY CODE.
16. P-TRAPS SHALL BE 17-GAGE CAST BRASS.
17. FIRE-STOP PIPE PENETRATIONS OF FIRE AND SMOKE RATED ENCLOSURES. SEE ARCHITECTURAL DWGS. AND COORDINATE WITH ARCHITECT AND GENERAL CONTRACTOR IN THE FIELD.
18. ABOVE CEILING SPACES FOR THIS PROJECT (EXCEPT RESTROOMS) CAN BE ASSUMED TO BE RETURN AIR PLENUM SPACES. PVC WILL NOT BE ALLOWED IN RETURN AIR PLENUMS.
19. COORDINATE FINAL LOCATION OF HUB DRAINS, FLOOR DRAINS, AND FLOOR SINKS IN THE FIELD WITH THE EQUIPMENT SUPPLIERS.
20. DRAIN PIPING FROM INDIVIDUAL EQUIPMENT ROUTED TO THE HUB/FLOOR DRAIN/SINK SHALL BE HARD PIPED COPPER UNLESS OTHERWISE NOTED.
21. COORDINATE HOT WATER, COLD WATER, & WASTE CONNECTIONS TO FIXTURES PROVIDED BY EQUIPMENT SUPPLIERS, INCLUDING ANY NECESSARY FITTINGS SUCH AS PRESSURE REDUCING VALVES, VACUUM BREAKERS, WATER HAMMER ARRESTERS, SHUTOFF VALVES, ETC. COORDINATE REQUIREMENTS WITH THE EQUIPMENT SUPPLIER IN THE FIELD. PROVIDE FITTINGS FOR A COMPLETE INSTALLATION WHETHER SPECIFICALLY SHOWN OR NOT.

Plumbing Legend:

- WASTE PIPING. SIZED AS SHOWN.
- WASTE VENT PIPING. SIZED AS SHOWN.
- COLD WATER PIPING. SIZED AS SHOWN.
- HOT WATER PIPING. SIZED AS SHOWN.
- HOT WATER RETURN PIPING. SIZED AS SHOWN.
- P-TRAP
- BALL VALVE FOR SHUT-OFF SERVICE.
- BALANCING VALVE. TOUR & ANDERSSON MODEL STAD OR APPROVED EQUAL.
- CHECK VALVE.

FPWH/VB 3/4" EXPOSED FREEZEPROOF WALL HYDRANT WITH VACUUM BREAKER
HB/VB 3/4" CHROME PLATED HOSE BIBB WITH VACUUM BREAKER & LOOSE KEY OPERATOR.
HB HOSE BIBB WITH VACUUM BREAKER

WCO WALL CLEANOUT
FCO FLOOR CLEANOUT
GCO GROUND CLEANOUT
HD HUB DRAIN. SIZED AS SHOWN.
FD FLOOR DRAIN W/ FLUSH STRAINER. OUTLET SIZE AS SHOWN. ZURN 415 'TYPE B' OR APPROVED EQUAL.
FD-R FLOOR DRAIN W/ 7" DIA. RECESSED STRAINER. INSTALL FLUSH W/ FINISHED FLOOR. OUTLET SIZE AS SHOWN. ZURN 415 'TYPE I' OR APPROVED EQUAL.
FD-S FLOOR DRAIN W/ SQUARE STRAINER. OUTLET SIZE AS SHOWN. ZURN 415 'TYPE S' (6"x6") OR APPROVED EQUAL.
FS FLOOR SINK W/ HALF GRATE & BEEHIVE STRAINER. OUTLET SIZE AS SHOWN. ZURN 1900 OR APPROVED EQUAL.
FS-SS STAINLESS STEEL FLOOR SINK W/ HALF GRATE & BEEHIVE STRAINER. OUTLET SIZE AS SHOWN. ZURN 1751 OR APPROVED EQUAL.
VTR VENT THROUGH ROOF. SIZED AS SHOWN.

CP-# CIRCULATION PUMP. SEE SCHEDULE THIS SHEET.
EWH-# ELECTRIC WATER HEATER. SEE SCHEDULE AND INSTALLATION DETAIL.
P-# PLUMBING FIXTURE NUMBER. SEE SCHEDULE ON THIS SHEET.
AAV AIR ADMITTANCE VALVE
A.F.F. ABOVE FINISHED FLOOR
N.O. NORMALLY OPEN
N.C. NORMALLY CLOSED
EX. EXISTING
SS STAINLESS STEEL
W/ WITH

PLUMBING FIXTURE CONNECTION SCHEDULE

MARK #	FIXTURE TYPE	MANUFAC. & MODEL	CONNECTIONS			REMARKS
			WASTE	CW	HW	
P-1	WATER CLOSET (ADULT)	ZURN Z5655	3"	1"	-	FLOOR MOUNTED, ELONGATED WATER CLOSET, SLOAN REGAL MANUAL FLUSH VALVE W/ SPLIT RING PIPE SUPPORT, & ZURN Z5955SS-EL OPEN FRONT SEAT WITHOUT COVER. (1.6 GPF)
P-1A	WATER CLOSET (ADULT - HC)	ZURN Z5665	3"	1"	-	FLOOR MOUNTED, ELONGATED WATER CLOSET, SLOAN REGAL MANUAL FLUSH VALVE W/ SPLIT RING PIPE SUPPORT, & ZURN Z5955SS-EL OPEN FRONT SEAT WITHOUT COVER. (HC) (1.6 GPF)
P-2	WALL MOUNTED URINAL	ZURN Z5798	2"	3/4"	-	VIT. CHINA, CARRIER WALL MOUNTED, SLOAN REGAL MANUAL FLUSH VALVE W/ SPLIT RING PIPE SUPPORT. (0.125 GPF) SEE ARCH. DWGS. FOR ADA LOCATIONS.
P-3	WALL MOUNTED LAVATORY	ZURN Z5344	1-1/4" X 1-1/2"	1/2"	1/2"	VIT. CHINA, PROVIDE WITH CONCEALED ARMS SUPPORT AND T&S BRASS B-0831-WA VANDAL RESISTANT WRIST BLADE HANDLE METERING FAUCET, 1.0 GPM AERATOR, OFFSET TRAP AND STRAINER. PROVIDE POINT OF USE MIXING VALVE FOR LAVATORY. MOUNT BELOW FIXTURE AND ADJUST VALVE TO NOT EXCEED 110°F. (HC)
P-4	COUNTERTOP MOUNTED LAVATORY	- -	1-1/4" X 1-1/2"	1/2"	1/2"	VIT. CHINA, COUNTERTOP MOUNTED AND T&S BRASS B-0831-WA VANDAL RESISTANT WRIST BLADE HANDLE METERING FAUCET, 1.0 GPM AERATOR, GRID STRNR., & OFFSET P-TRAP. PROVIDE POINT OF USE MIXING VALVE FOR LAVATORY. MOUNT BELOW FIXTURE AND ADJUST VALVE TO NOT EXCEED 110°F.
P-5	SHOWER	FITTINGS ONLY	2"	1/2"	1/2"	LEONARD 76-1A SHOWER SYSTEM W/ PRESSURE BALANCING MIXING VALVE & 1.5 GPM ADJ. METAL SHOWER HEAD. STAINLESS STEEL HORIZONTAL GRAB BAR, SHOWER CURTAIN & ROD, & VINYL FLEXIBLE DAM. DRAIN ASSEMBLY SHALL BE COMPATIBLE W/ SHOWER BASE, WHICH INCLUDES STAINLESS STEEL STRAINER, CLAMPING COLLAR, & SEEPAGE SLOTS.
P-5A	SHOWER (HC)	FITTINGS ONLY	2"	1/2"	1/2"	LEONARD 76-5A SHOWER SYSTEM W/ PRESSURE BALANCING MIXING VALVE, 1.5 GPM METAL HANDSET, MOUNTING BAR, & FLEXIBLE METAL HOSE. PROVIDE FOLD-UP SEAT, STAINLESS STEEL HORIZONTAL GRAB BAR, SHOWER CURTAIN & ROD, & VINYL FLEXIBLE DAM. DRAIN ASSEMBLY SHALL BE COMPATIBLE W/ SHOWER BASE, WHICH INCLUDES STAINLESS STEEL STRAINER, CLAMPING COLLAR, & SEEPAGE SLOTS.
P-6	WASHING MACHINE	GUY GRAY B200	2"	3/4'	3/4'	GALVANIZED STEEL WASHING MACHINE SUPPLY WITH TWO 3/4" HOSE BIBBS AND WATER HAMMER ARRESTORS. PROVIDE CONNECTIONS TO EQUIPMENT.
P-7	JANITOR'S SERVICE SINK	STERN WILLIAMS HL-1800	3"	1/2"	1/2"	24"x24"x10" DEEP TERRAZZO SERVICE SINK WITH STAINLESS STEEL INTEGRAL CAST CAP, GRID STRAINER, SPLASH GUARDS, AND T&S B-0665-BSTR FAUCET WITH VACUUM BREAKER.
P-8	REFRIGERATOR / ICE MACHINE	GUY GRAY	-	1/2"	-	GALVANIZED STEEL SUPPLY BOX WITH ANGLE SHUTOFF VALVE W/ WATER HAMMER ARRESTOR. PROVIDE CONNECTION TO EQUIPMENT. COORDINATE LOCATION OF FLOOR DRAIN & WATER ROUGH-IN WITH EQUIPMENT.
P-9	DRINKING FOUNTAIN (HC)	HALSEY TAYLOR HRFSEBP FR	1-1/2"	1/2"	-	S.S. SELF CONTAINED, CARRIER SUPPORT, BI-LEVEL EXTERIOR DRINKING FOUNTAIN, WALL MOUNT ADULT ADA "SWIRLFLO" MODELS. LOCATE FPWH/VB DOWNSTREAM OF SUPPLY STOP FOR DRAINING.
P-10	DRINKING FOUNTAIN (HC)	HALSEY TAYLOR HRFEBP FR	1-1/2"	1/2"	-	S.S. SELF CONTAINED, CARRIER SUPPORT, EXTERIOR DRINKING FOUNTAIN, WALL MOUNT ADULT ADA "SWIRLFLO" MODELS. LOCATE FPWH/VB DOWNSTREAM OF SUPPLY STOP FOR DRAINING.

(HC) DENOTES FIXTURE TO BE DESIGNED, MANUFACTURED AND MOUNTED FOR HANDICAPPED ACCESSIBILITY.
- PROVIDE MANUFACTURERS AND MODEL NUMBERS LISTED ABOVE OR APPROVED EQUALS IN STRICT ACCORDANCE WITH ARCHITECTURAL INTERIOR & RESTROOM ELEVATIONS FOR
- PROPER MOUNTING/FIXTURE HEIGHTS AS REQUIRED FOR DIFFERENT STUDENT AGE GROUPS. FIXTURES AND ADDITIONAL COMPONENTS/FITTINGS REQUIRED FOR SPECIFIC HEIGHT INSTALLATION SHALL BE COORDINATED/VERIFIED WITH THE MOST CURRENT ARCHITECTURAL DRAWINGS/CORRESPONDENCE PRIOR TO ORDERING OR ROUGH-IN. DISCREPANCIES BETWEEN THE PLUMBING DRAWINGS AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY AND PRIOR TO ORDERING FIXTURES OR INSTALLING ROUGH-IN PIPING.

CIRCULATION PUMP SCHEDULE

MARK	SERVICE	TYPE	PERFORMANCE DATA				ELECTRICAL DATA				REMARKS
			CAPACITY - GPM	HEAD - FT H_2O	MINIMUM EFFICIENCY-%	MAXIMUM SPEED - RPM	APPROXIMATE MOTOR H.P.	VOLTS	PHASE	HERTZ	
CP-1	HOT WATER	①	3.0	-	-	3250	1/8	115	1	60	② ③ ④

PUMP SCHEDULE NOTES:

① CARTRIDGE CIRCULATOR, BRONZE FITTED
② INSTALL PUMP AND ACCESSORIES IN THE MECHANICAL ROOM FOR EASY MAINTENANCE ACCESS (MAX. 6'-0").
③ PUMP SHALL BE CONNECTED TO DDC SYSTEM FOR START/STOP OPERATION/OVERRIDE. AQUASTAT TO CONTROL PUMP DURING OCCUPIED SCHEDULE. SEE ELECTRICAL DWGS.
④ TACO MODEL 008 OR APPROVED EQUAL.

ELECTRIC WATER HEATER SCHEDULE

MARK	GAL.	ELECTRICAL DATA				REMARKS ①②③
		VOLTS	PHASE	HERTZ	KW	
EWH-1	50	480	3	60	24	A.O. SMITH DRE-52-24

WATER HEATER SCHEDULE NOTES:

① EWH DESIGN BASED ON COMMERCIAL ELECTRIC WATER HEATER OR APPROVED EQUAL.
② FIELD VERIFY AVAILABLE VOLTAGE PRIOR TO ORDERING.
③ HEATER SHALL BE CONNECTED TO DDC SYSTEM FOR START/STOP OPERATION/OVERRIDE. SEE ELECTRICAL DWGS.

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CHARLES D. BROWN, PE #42140

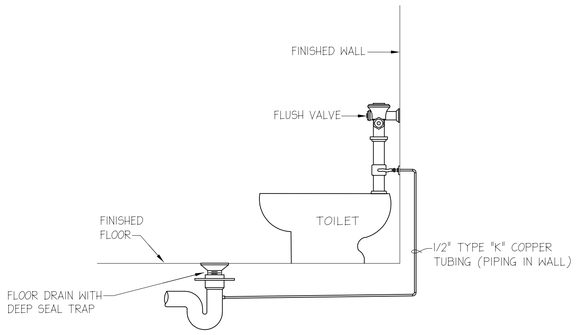
RELEASE:
CONSTRUCTION DOCUMENTS

SCALE: As indicated	DATE: 05/04/2017
DRAWN:	CHECKED: C. D. BROWN

NO.	REVISION:	DATE:

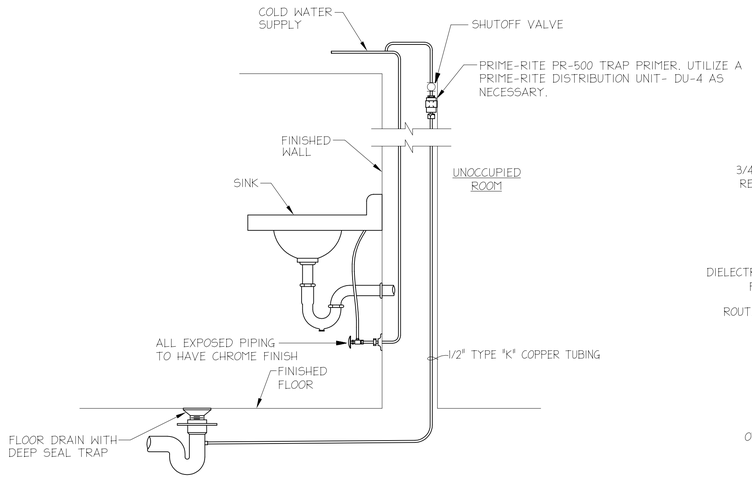
SHEET TITLE:
PLUMBING LEGEND AND NOTES

PROJECT NO.	SHEET
4226	P1



RESTROOM TRAP PRIMER DETAIL

NOT TO SCALE



RESTROOM TRAP PRIMER DETAIL

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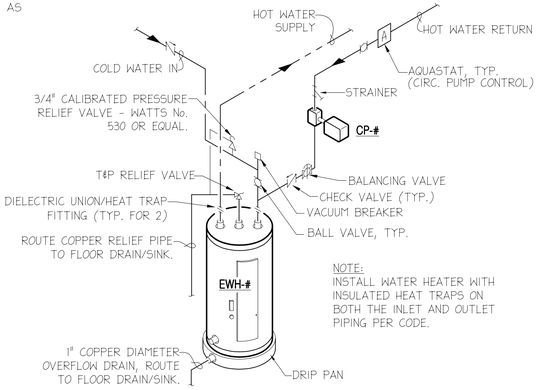
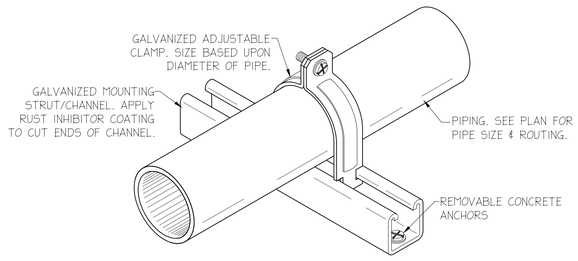


ELECTRIC WATER HEATER INSTALLATION DETAIL

NOT TO SCALE



PIPING SUPPORT DETAIL

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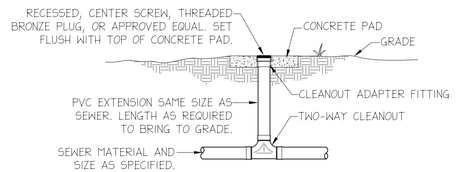
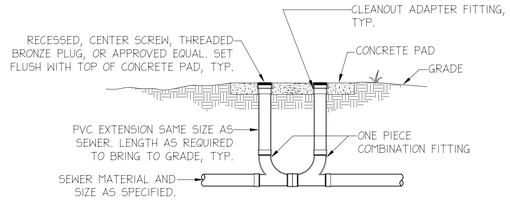


2-WAY GROUND LEVEL CLEANOUT DETAIL

NOT TO SCALE (FOR INSTALLATIONS LESS THAN 2'-6" BELOW FINISHED GRADE.)



2-WAY GROUND LEVEL CLEANOUT DETAIL

NOT TO SCALE (FOR INSTALLATIONS GREATER THAN 2'-6" BELOW FINISHED GRADE.)

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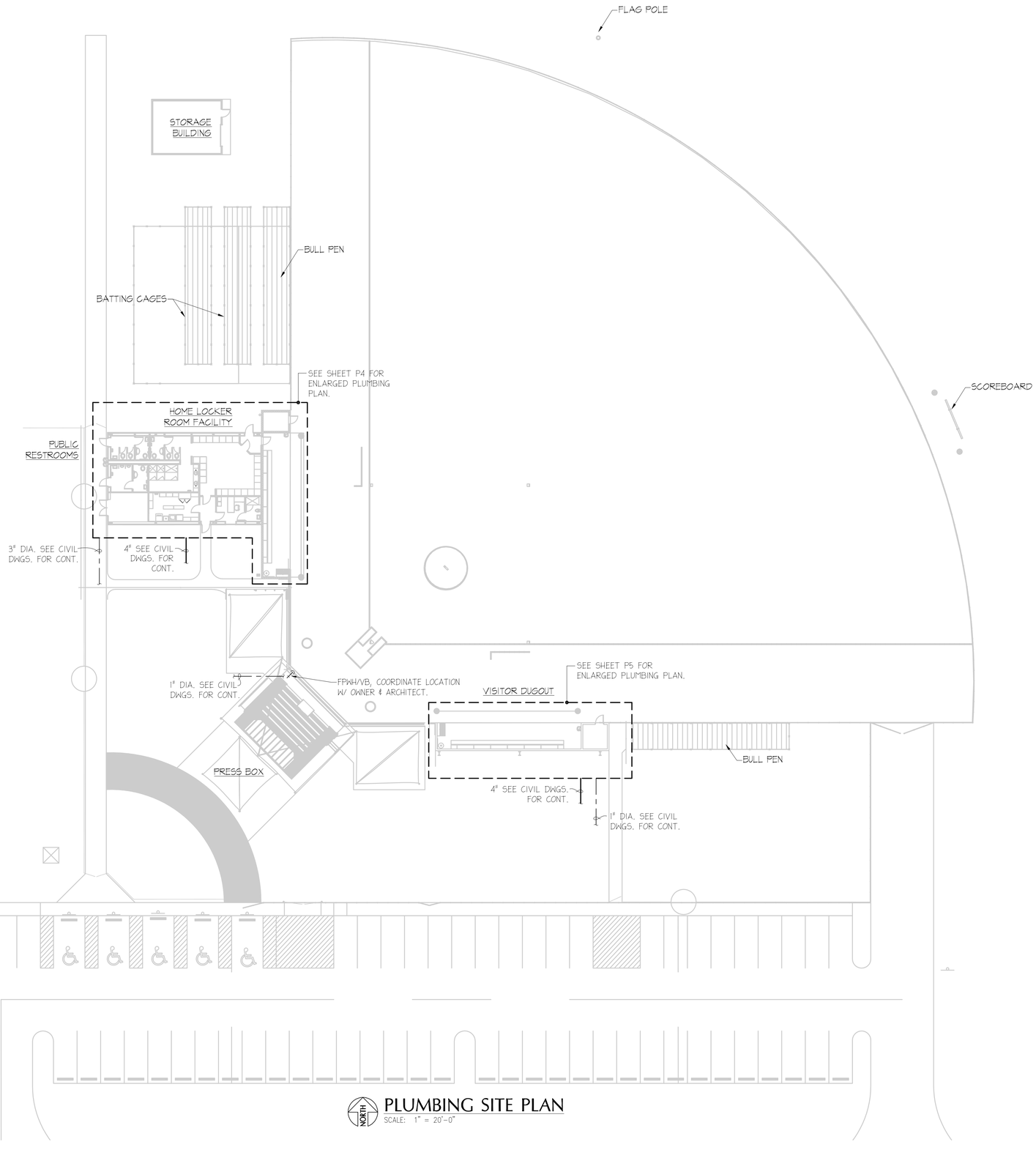
	C. D. BROWN

NO.	REVISION:	DATE:

SHEET TITLE:
PLUMBING DETAILS

PROJECT NO.	SHEET
4226	P2



PLUMBING SITE PLAN

SCALE: 1" = 20'-0"

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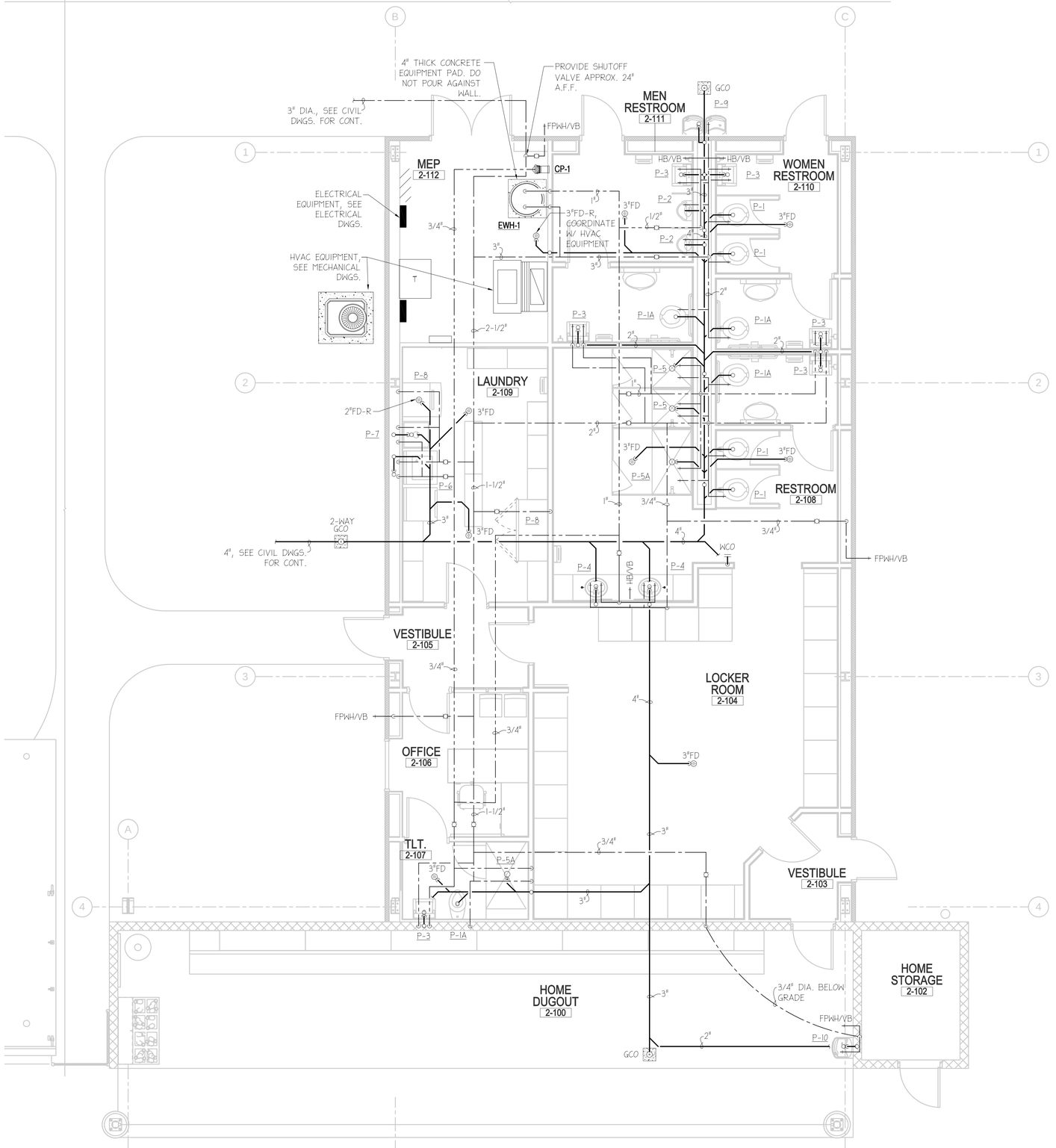
NO.	REVISION:	DATE:

SHEET TITLE:

PLUMBING - SITE PLAN

PROJECT NO.	SHEET
4226	P3



NORTH

PLUMBING FLOOR PLAN - LOCKER ROOM FACILITY

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

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RELEASE:

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NO.	REVISION:	DATE:

SHEET TITLE:

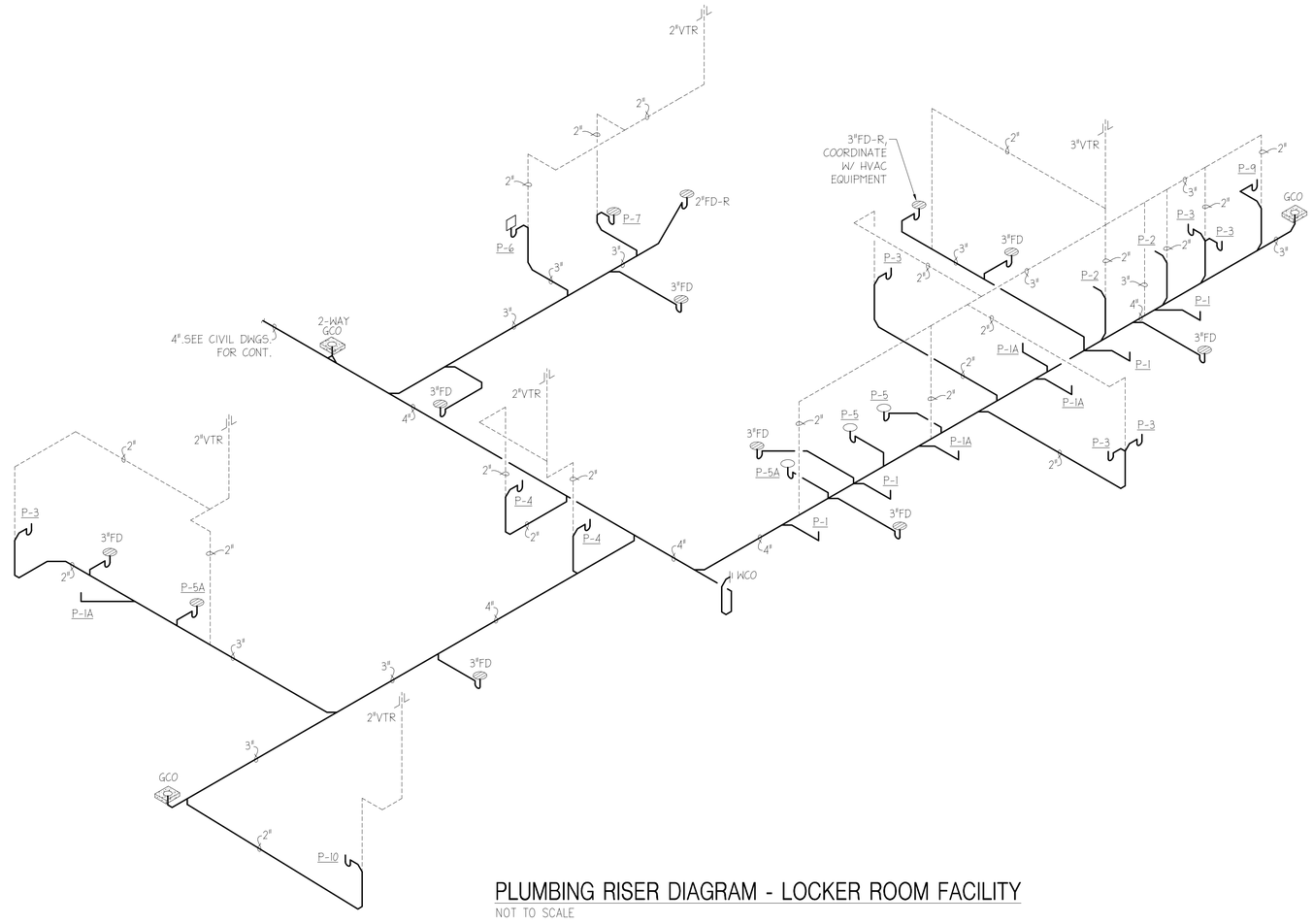
PLUMBING - LOCKER ROOM FACILITY

PROJECT NO.	SHEET
4226	P4

NORTH

PLUMBING FLOOR PLAN - VISITOR DUGOUT

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



PLUMBING RISER DIAGRAM - LOCKER ROOM FACILITY

NOT TO SCALE

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RELEASE:

CONSTRUCTION DOCUMENTS

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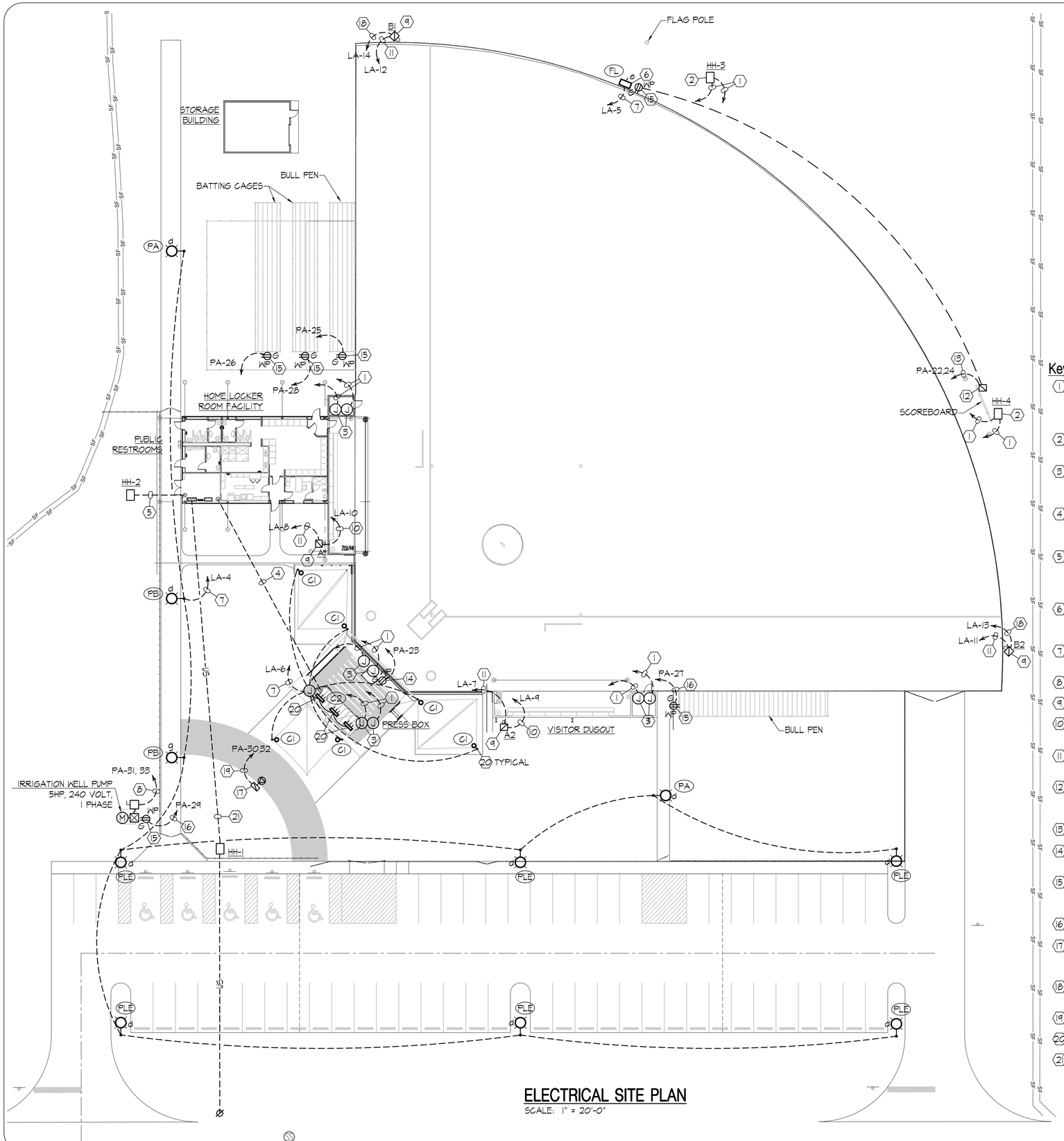
	C. D. BROWN

NO.	REVISION:	DATE:

SHEET TITLE:

PLUMBING - VISITOR DUGOUT & RISERS

PROJECT NO.	SHEET
4226	P5



ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

ELECTRICAL LEGEND

- POLE MOUNTED PARKING AREA LIGHT FIXTURE. SEE DETAIL, SHEET E9.
- FLOODLIGHT FIXTURE
- CANOPY LIGHT FIXTURE, POLE MOUNT
- CANOPY LIGHT FIXTURE, ROOF MOUNT
- –US– UNDERGROUND SECONDARY SERVICE CONDUCTORS IN CONDUIT
- UNDERGROUND BRANCH CIRCUIT CONDUCTORS IN CONDUIT
- HH-2 HANDHOLE - SEE DETAIL, SHEET E10
- GULF POWER COMPANY POLE MOUNTED TRANSFORMER
- FIELD LIGHT POLE
- NON-FUSED DISCONNECT
- (M) MOTOR - SIZE AND CHARACTERISTICS AS NOTED
- MOTOR CONTROLLER
- (J) WEATHERPROOF JUNCTION BOX
- RECEPTACLES MOUNTED IN PEDESTAL - SEE DETAIL, SHEET E10
- DUPLEX GFCI RECEPTACLE MOUNTED IN WEATHERPROOF ENCLOSURE ON FREE STANDING STRUCTURE. 20 AMP, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R.

Key Notes

1. FUTURE SECURITY CAMERA LOCATION: PROVIDE TWO (2) EMPTY 1" CONDUITS WITH NYLON PULL STRING FROM SECURITY CAMERA LOCATION AND STUB UP IN MECHANICAL ROOM 2-112. COORDINATE FINAL LOCATION OF CAMERA AND STUB UP LOCATION WITH OWNER PRIOR TO ROUGH-IN.
2. PROVIDE HANDHOLE FOR FUTURE SECURITY CAMERA LOCATION. COORDINATE FINAL LOCATION AND SIZE OF HANDHOLE WITH OWNER PRIOR TO ROUGH-IN.
3. PROVIDE TWO (2) WEATHERPROOF JUNCTION BOXES FOR FUTURE SECURITY CAMERA LOCATION. COORDINATE FINAL LOCATION AND MOUNTING WITH OWNER PRIOR TO ROUGH-IN.
4. PROVIDE TWO (2) 2" EMPTY CONDUITS WITH NYLON PULL STRING FOR FUTURE AV SYSTEM. STUB UP INSIDE OF PRESS BOX AND HOMERUN TO MECHANICAL ROOM 2-112. COORDINATE FINAL STUB-UP LOCATIONS WITH OWNER PRIOR TO ROUGH-IN.
5. PROVIDE TWO (2) 3" EMPTY CONDUITS WITH NYLON PULL STRING FOR FUTURE DATA. STUB UP INSIDE OF MECHANICAL ROOM 2-112. EXTEND EMPTY CONDUIT TO OUTSIDE OF FENCE LINE AND NEW HANDHOLE. COORDINATE FINAL STUB-UP LOCATIONS AND SIZE OF HANDHOLE WITH OWNER PRIOR TO ROUGH-IN.
6. MOUNT FIXTURE MARK "FL" ON FREE STANDING STRUCTURE NEXT TO FENCE. SECURE FIXTURE TO STRUCTURE. AIM FIXTURE AT FLAG TO PROVIDE BEST DISTRIBUTION. SEE DETAIL SHEET E9.
7. HOMERUN TO PANEL THRU ZONE IN LIGHTING CONTROL MODULE WITH 2 #10, 1 #10 GND IN 1 CONDUIT, TYPICAL FOR ENTIRE BRANCH CIRCUIT.
8. HOMERUN 2 #4, 1 #10 GND IN 1" CONDUIT THRU 60A/2P NEMA 4X DISCONNECT.
9. FIELD LIGHTING POLE AND FIXTURES. SEE DETAIL SHEETS E11 AND E12.
10. FIELD LIGHTING CIRCUIT - HOMERUN THRU LIGHTING CONTROL CONTACTOR CABINET WITH 3 #10, 1 #10 GND IN 1" CONDUIT.
11. BATTING CAGE AND BULL PEN LIGHTING CIRCUIT - HOMERUN THRU LIGHTING CONTROL CONTACTOR CABINET WITH 3 #10, 1 #10 GND IN 1" CONDUIT.
12. PROVIDE 30A/2P NEMA 4X DISCONNECT FOR SCOREBOARD. MOUNT ON FREE STANDING STRUCTURE BEHIND SCOREBOARD. PROVIDE MAINTENANCE GFCI RECEPTACLE IN WEATHERPROOF ENCLOSURE AND SECURE TO FREE STANDING STRUCTURE.
13. HOMERUN TO TWO (2) 20A/1P BREAKER WITH 4 #10, 1 #10 GND IN 1" CONDUIT.
14. PROVIDE GENERAL GFCI RECEPTACLE IN WEATHERPROOF ENCLOSURE IN BACKSTOP WALL. HOMERUN WITH 2 #10, 1 #10 GND IN 1" CONDUIT.
15. PROVIDE GENERAL GFCI RECEPTACLE IN WEATHERPROOF ENCLOSURE ON FREE STANDING STRUCTURE. VERIFY FINAL LOCATION WITH OWNER OR OTHER EQUIPMENT INSTALLED IN THE AREA.
16. HOMERUN WITH 2 #10, 1 #10 GND IN 3/4" CONDUIT.
17. PROVIDE RECEPTACLES IN PEDESTAL. SEE DETAIL SHEET E10. COORDINATE ACTUAL RECEPTACLE/PLUG INSTALLED WITH OWNER FOOD TRUCK. VERIFY FINAL PEDESTAL LOCATION, HEIGHT, AND FINISH WITH OWNER.
18. FIELD LIGHTING CIRCUIT - HOMERUN THRU LIGHTING CONTROL CONTACTOR CABINET WITH 3 #8, 1 #10 GND IN 1" CONDUIT.
19. HOMERUN TO PANEL WITH 3 #6, 1 #10 GND IN 1" CONDUIT.
20. SEE FIXTURE MOUNTING DETAIL SHEET E10. VERIFY LOCATION PRIOR TO ROUGH-IN.
21. UNDERGROUND SECONDARY SERVICE CONDUCTORS IN CONDUIT, FURNISHED AND INSTALLED BY GULF POWER COMPANY.

Graphic Scale

20 10 0 20FT 40FT

SCALE: 1" = 20'-0"

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RELEASE:

CONSTRUCTION DOCUMENTS

SCALE:	DATE:
As indicated	05/04/2017
DRAWN: T. A. BOLTON	CHECKED: M. J. REID

NO.	REVISION:	DATE:

SHEET TITLE:

ELECTRICAL SITE PLAN

PROJECT NO.	SHEET
4226	E1

ELECTRICAL LEGEND

Ceiling Outlets

(A) (2) RECESSED 2' X 4' LED FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL

SURFACE MOUNTED OR SUSPENDED FLUORESCENT FIXTURE

RECESSED DOWNLIGHT, SUSPENDED OR SURFACE MOUNTED LED FIXTURE

JUNCTION BOX

Wall Outlets

JUNCTION BOX WITH BLANK SCREW COVER AND FLEXIBLE CONDUIT CONNECTION

WALL MOUNTED EXIT LIGHT

WALL MOUNTED LED LIGHT FIXTURE

WALL MOUNTED LINEAR LED LIGHT FIXTURE

EMERGENCY LIGHT FIXTURE WITH BATTERY BACKUP

SINGLE RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS INDICATED OTHERWISE.

DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS INDICATED OTHERWISE.

DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT ABOVE COUNTER OR 36" A.F.F. UNLESS INDICATED OTHERWISE.

DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT UP IN TRUSS SYSTEM FOR A/V.

DOUBLE DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS INDICATED OTHERWISE.

SINGLE RECEPTACLE - 30 AMP, 125/250 VOLT, 3 POLE, 4 WIRE GROUNDED TYPE, NEMA 14-30R WITH MATCHING PLUG. MOUNT 18" A.F.F.

Wall Switches (Mount 48" A.F.F. unless otherwise noted)

S A.C. TYPE, SINGLE POLE, 20 AMP, 120/277 VOLT

S_3 A.C. TYPE, 3-WAY, 20 AMP, 120/277 VOLT

S_a WALL SWITCH - CONTROLS OUTLET "a", ETC.

S_T LINE VOLTAGE DIGITAL SWITCH WITH INTEGRAL TIMER FOR AUTOMATIC SHUTOFF. WATTSTOPPER No. TS-400

S_{DI} LINE VOLTAGE SWITCH WITH INTEGRAL OCCUPANCY SENSOR. WATTSTOPPER No. DW-100

S_D DIGITAL NETWORK SWITCH WITH NUMBER OF PRESET BUTTONS AS INDICATED FOR LIGHTING CONTROL. VERIFY BUTTON QUANTITY AND FUNCTION WITH OWNER.

Branch Circuiting

RUN EXPOSED PERPENDICULAR AND PARALLEL TO BUILDING LINES

RUN CONCEALED UNDER FLOOR

RUN CONCEALED IN CEILING OR WALLS

MP-1 HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #12, 1 #12 GROUND - 1/2" C; 3 #12, 1 #12 GROUND - 1/2" C; 4 #10, 1 #12 GROUND - 1/2" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.

FLEXIBLE CONDUIT CONNECTION

EMPTY CONDUIT WITH PULL CORD

LOW VOLTAGE WIRING IN 1/2" CONDUIT CONCEALED ABOVE CEILING

Panels and Power

POWER PANELBOARD

LIGHTING PANELBOARD

S_M TOGGLE TYPE MANUAL MOTOR CONTROLLER

(F) EXHAUST FAN

NON-FUSIBLE DISCONNECT SWITCH

(M) MOTOR - SIZE AND CHARACTERISTICS AS NOTED

MOTOR CONTROLLER

VFD VARIABLE FREQUENCY DRIVE - PROVIDED BY OTHERS INSTALLED BY ELECTRICAL CONTRACTOR

M WATTHOUR DEMAND METER

T DRY TYPE PAD MOUNTED TRANSFORMER

SPD SURGE PROTECTIVE DEVICE

Miscellaneous

A.F.F. ABOVE FINISH FLOOR

WP WEATHERPROOF

EWC ELECTRIC WATER COOLER

G GROUND FAULT CIRCUIT INTERRUPTER

TV TV RECEPTACLE - SEE TELCOM DRAWING FOR EXACT MOUNTING HEIGHT AND LOCATION

(A) INDICATES FIXTURE MARK IN AREA SHOWN

AG PROVIDE WITH ACRYLIC POLYCARBONATE GUARD

WG PROVIDE WITH WIRE GUARD

DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR CRESTRON No. GLS-ODT-C-NS

LINE VOLTAGE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR WATTSTOPPER No. DT-355

DAYLIGHT SENSOR CEILING MOUNTED, LOW VOLTAGE CRESTRON No. GLS-LCL

GB LIGHTING CONTROL MODULE - SEE LIGHING CONTROL DIAGRAM, SHEET E3

GENERAL NOTES

1. THE ELECTRICAL WORK TO BE PROVIDED SHALL COVER THE FURNISHING OF EQUIPMENT AND MATERIALS, THE PERFORMANCE OF ALL LABOR WITH SUPERVISION, THE BEARING OF ALL EXPENSE, ALL AS NECESSARY FOR THE SATISFACTORY COMPLETION OF ALL WORK READY FOR OPERATION AS SHOWN ON THE DRAWINGS.
2. THE INSTALLATION SHALL COMPLY WITH ALL STATE, LOCAL CODES, LAWS AND ORDINANCES APPLICABLE TO ELECTRICAL WORK, N.F.P.A. LIFE SAFETY CODE, STANDARD BUILDING CODE AND THE NATIONAL ELECTRICAL CODE.
3. PANELBOARDS SHALL BE CIRCUIT BREAKER TYPE WITH KEYED LOCK ON DOOR. PROVIDE EACH NEW AND EXISTING PANEL WITH TYPE WRITTEN DIRECTORY TO INDICATE LOAD SERVED BY EACH BREAKER. CIRCUIT BREAKERS SHALL BE UL 489 THERMAL MAGNETIC-TYPE WITH SHORT CIRCUIT INTERRUPTING CAPACITIES INDICATED IN PANEL SCHEDULE.
4. ALL INSIDE WORK SHALL BE INSTALLED IN CONDUIT CONCEALED TYPE CONSTRUCTION. CONDUITS SHALL NOT BE RUN EXPOSED ON CONCRETE BLOCK WALLS ON FINISHED SPACES.
5. GALVANIZED RIGID STEEL OR IMC SHALL BE INSTALLED IN WET OR DAMP LOCATIONS AND EXPOSED OUTSIDE. MINIMUM 1/2" DIAMETER.
6. THINWALL (EMT) CONDUIT MAY BE USED INSIDE. MINIMUM 3/4" DIAMETER.
   a. COUPLINGS AND CONNECTORS FOR USE WITH EMT SHALL BE ALL STEEL COMPRESSION TYPE.
   b. CONDUIT FITTINGS SHALL BE ZINC COATED.
   c. CONDUIT SHALL BE SECURELY FASTENED TO ALL OUTLET BOXES OR CABINETS WITH LOCKNUTS AND BUSHINGS OF APPROVED MAKE.
   d. ALL JUNCTION BOXES SHALL HAVE CIRCUIT NUMBER IDENTIFIED ON COVER AND COLOR-CODED AS FOLLOWS:

      ORANGE - 480Y/277 VOLT
      BLUE - 208Y/120 VOLT
      RED - FIRE ALARM
7. CONDUCTORS SHALL BE MINIMUM #12 AWG SOLID COPPER WITH TYPE THW, THHN OR THWN 600 VOLT INSULATION.
8. OUTLET BOXES SHALL BE 4" SQUARE, GALVANIZED, NOT LESS THAN 1-5/8" DEEP.
9. RECEPTACLES: RECEPTACLES SHALL BE FURNISHED AND INSTALLED WHERE SHOWN ON THE DRAWINGS AND SHALL BE HEAVY DUTY SPECIFICATION GRADE AND SHALL BE RATED 20 AMP, 125 VOLT, 2 POLE, 3 WIRE, HUBBELL "CR" SERIES OR APPROVED EQUAL.
10. WALL PLATES: ALL SWITCH, RECEPTACLE, AND EMPTY CONDUIT SYSTEM OUTLET PLATES, UNLESS OTHERWISE NOTED, SHALL BE STAINLESS STEEL.
11. ALL LIGHTING FIXTURES SHALL BE COMPLETE WITH AUXILIARIES, ACCESSORIES, HANGERS, SUPPORTS,
12. SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE 600 VOLT WITH NUMBER OF POLES AND AMPERE RATING AS INDICATED.
13. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, OF QUALITY SPECIFIED, AND AS LISTED IN PRINTED CATALOGS OF THE MANUFACTURER. UNLESS OTHERWISE SPECIFIED, ALL ITEMS SHALL HAVE THE MANUFACTURER'S STANDARD FINISH.
14. THE CONTRACTOR SHALL AFFIRM WITH GULF POWER COMPANY THAT THE LOCATION, ARRANGEMENT AND CONNECTION TO THE ELECTRICAL UTILITY SERVICE, AS WELL AS REQUIRED METERING EQUIPMENT, IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE GULF POWER COMPANY.
15. THE CONTRACTOR SHALL COORDINATE SIZES INDICATED FOR ELECTRICAL COMPONENTS SUCH AS CIRCUIT BREAKERS, DISCONNECTS, AND FEEDERS WITH THE REQUIREMENTS FOR EQUIPMENT ACTUALLY PROVIDED.
16. IN ACCORDANCE WITH NFPA 70, GROUND EXPOSED NON-CURRENT-CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT, METALLIC RACEWAYS, GROUNDING CONDUCTOR IN METALLIC RACEWAYS, AND NEUTRAL CONDUCTOR OF WIRING SYSTEMS. MAXIMUM RESISTANCE-TO-GROUND OF GROUNDING SYSTEM SHALL NOT EXCEED 25-ohms UNDER DRY CONDITIONS.

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PROJECT:
GCSC SOFTBALL COMPLEX

Premier Engineering Group, LLC

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MELISSA JUNE REID LICENSE No. 66488 STATE OF FLORIDA PROFESSIONAL ENGINEER
MELISSA J. REID, PE #66488

RELEASE:
CONSTRUCTION DOCUMENTS

SCALE: As indicated	DATE: 05/04/2017
DRAWN: T. A. BOLTON	CHECKED: M. J. REID

NO.	REVISION:	DATE:

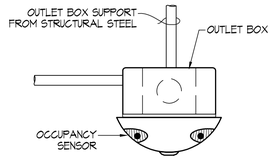
SHEET TITLE:
ELECTRICAL LEGEND

PROJECT NO.	SHEET
4226	E2

LIGHTING FIXTURE SCHEDULE

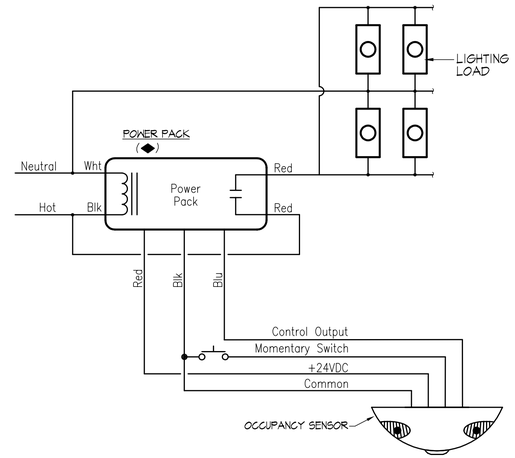
MARK	MANUFACTURER & CATALOG No.	LAMPS No.	LAMPS TYPE	MOUNTING	DESCRIPTION
DI	LITHONIA No. LDN6 35/10 L06 WR L5S MVOLT WL	-	10.2W LED 3500K	RECESSED	NOMINAL 6" RECESSED LED DOWNLIGHT WITH 1000 LUMEN OUTPUT AT 3500K, COMFORT CLEAR REFLECTOR WITH WHITE FLANGE, UNIVERSAL VOLTAGE DRIVER, WET LOCATION LISTED.
E	PHILIPS No. CXXL3RW	-	LED	UNIVERSAL	NOMINAL LED EXIT LIGHT FIXTURE WITH UNIVERSAL MOUNTING, UNIVERSAL FACES, WHITE THERMOPLASTIC HOUSING WITH EMERGENCY BATTERY BACKUP WITH SELF TEST FEATURE.
EM	LITHONIA No. ELM2LED5D	-	LED	WALL MOUNT 8'-0" A.F.F.	NOMINAL LED EMERGENCY FIXTURE, DAMP LOCATION LISTED WITH EMERGENCY BATTERY BACKUP AND SELF TEST FEATURE. MEETS EGRESS 6' PATH REQUIREMENTS WITH 20' SPACING.
G1	LITHONIA No. TL4 20L FW A19 LP835 (DGA14)	-	15.3W LED 3500K	RECESSED	NOMINAL 1X4 RECESSED LENSED LED TROFFER WITH 0.156" THICK ACRYLIC LENS, STANDARD DRIVER, 2000 LUMEN OUTPUT. PROVIDE WITH HARD CEILING ADAPTER KIT WHERE NECESSARY.
G2	LITHONIA No. TL4 30L FW A19 LP835 (DGA14)	-	15.3W LED 3500K	RECESSED	SIMILAR TO FIXTURE MARK G1 EXCEPT 3000 LUMEN OUTPUT.
G3	LITHONIA No. 2TL4 30L FW A19 LP835 (DGA24)	-	15.3W LED 3500K	RECESSED	NOMINAL 2X4 RECESSED LENSED LED TROFFER WITH 0.156" THICK ACRYLIC LENS, STANDARD DRIVER, 2000 LUMEN OUTPUT. PROVIDE WITH HARD CEILING ADAPTER KIT WHERE NECESSARY.
M1	LITHONIA No. ZL2N L48 3000LM MDD MVOLT 35K 80CRI	-	28W LED 3500K	SURFACE MOUNT	NOMINAL 4' LED SURFACE OR PENDANT MOUNT FIXTURE WITH 3000 LUMEN OUTPUT AT 3500K, UNIVERSAL VOLTAGE DRIVER, AND WIRE GUARD.
M2	LITHONIA No. ZL2N L48 3000LM MDD MVOLT 35K 80CRI	-	48W LED 3500K	SURFACE MOUNT	SIMILAR TO FIXTURE MARK "M1" EXCEPT 4800 LUMEN OUTPUT.
R1	LITHONIA No. 2ALL4 48L EZ1 LP835 (DGA24)	-	30W LED 3500K	RECESSED	ARCHITECTURAL 2' X 4' LED VOLUMETRIC TROFFER WITH HINGED DOOR FRAME, FROSTED ACRYLIC LENS, 4800 LUMEN OUTPUT AT 3500K, UNIVERSAL VOLTAGE DRIVER.
S1	LITHONIA No. TLX4 30L FW A19 LP835	-	30W LED 3500K	RECESSED	NOMINAL 1X4 SURFACE MOUNT LENSED LED TROFFER WITH 0.156" THICK ACRYLIC LENS, STANDARD DRIVER, 2000 LUMEN OUTPUT.
SM1	KENALL No. MLHA8 24F XX PP 25L35 DDC DV DL	-	40W LED 3500K	SURFACE MOUNT	VANDAL RESISTANT 1X2 LED SURFACE MOUNTED FIXTURE WITH OPAL ACRYLIC LENS, 2500 LUMEN OUTPUT AT 3500K, UNIVERSAL VOLTAGE DRIVER. VERIFY FINISH WITH OWNER.
WB1	KENALL No. MLHA8 24F XX PP 25L35 DDC DV DL	-	54W LED 3500K	WALL MOUNT 8'-0" A.F.F. OR ABOVE MIRROR	SIMILAR TO FIXTURE MARK SM1 EXCEPT WALL MOUNT
WP1	LITHONIA No. DSWX1 LED 10C 530 40K T3M MVOLT	-	36W LED 4000K	WALL MOUNT 10'-0" A.F.F.	LED WALL MOUNT LED LOT FIXTURE TYPE 3 DISTRIBUTION, 3000LUMEN OUTPUT AT 4000K, UNIVERSAL VOLTAGE DRIVER, VERIFY FINISH WITH OWNER/ARCHITECT.
WP2	LITHONIA No. DSWX1 LED 10C 530 40K T3M MVOLT-PE	-	36W LED 4000K	WALL MOUNT 10'-0" A.F.F.	SIMILAR TO FIXTURE MARK WP1 EXCEPT WITH INTEGRAL PHOTOCELL.
*PLE	LITHONIA No. DSX2 LED 100C 700 40K MVOLT RPA SF (FINISH) POLE: RTA 30 10G (FINISH)	-	35W LED 4000K	POLE MOUNT 30'-0" A.F.F.	OWNER FURNISHED CONTRACTOR INSTALLED. LED POLE MOUNT LIGHT FIXTURE TYPE 3 DISTRIBUTION AND WATTSTOPPER No. NXTL-111-IP WIRELESS CONTROLS.
PA	LITHONIA No. DSX0 LED 20C 530 40K T1S MVOLT RPA PER SF (FINISH) POLE: RSA-12-4C (FINISH)	-	35W LED 4000K	POLE MOUNT 12'-0" A.F.F.	LED POLE MOUNT PEDESTRIAN LIGHT FIXTURE, TYPE T1 DISTRIBUTION, 4380 LUMEN AT 4000K. VERIFY FINISH WITH OWNER. PROVIDE WITH WATTSTOPPER No. NXTL-111-IP CONTROLLER.
PB	LITHONIA No. DSX0 LED 20C 530 40K T5M MVOLT RPA PER SF (FINISH) POLE: RSA-12-4C (FINISH)	-	35W LED 4000K	POLE MOUNT 12'-0" A.F.F.	SIMILAR TO FIXTURE MARK PA EXCEPT TYPE 5 DISTRIBUTION AND 4734 LUMEN OUTPUT.
FL	LITHONIA No. DSXF3 LED 6 P2 40K MFL MVOLT YKC62 FTSCG6 UBV VG XX	-	183W LED 4000K	POLE MOUNT 3'-0" A.F.F.	NOMINAL LED FLOOD LIGHT FIXTURE WITH DIE CAST ALUMINUM HOUSING, VANDAL GUARD, VISOR, IP66 RATED, WITH 17000 LUMEN OUTPUT AT 4000K TEMP. VERIFY SO CORD LENGTH.
C1	LUMENPULSE No. LBL 2TT 40K NF L5L XX NO SY XX PM4-1	-	50W LED 4000K	POLE MOUNT 1'-0" BELOW SHADE ATTACH.	NOMINAL LED FLOOD LIGHT FIXTURE WITH DIE CAST ALUMINUM HOUSING, CLEAR TEMPERED GLASS, IP66 RATED WITH 2600 LUMEN OUTPUT AT 4000K TEMP. VERIFY SO CORD LENGTH.
C2	ECOSENSE No. L50-1-48-12-40-80-MULT-25X45	-	48W LED 4000K	ROOF MOUNT ON PRESS BOX SEE DETAIL	NOMINAL LINEAR LED FLOOD LIGHT FIXTURE WITH EXTRUDED ALUMINUM HOUSING, INTEGRAL CONNECTORS, IP66 RATED WITH 5700 LUMEN OUTPUT AT 4000K TEMP. VERIFY CABLES LENGTHS.

* EXISTING LIGHT FIXTURE FURNISHED BY OWNER, CONTRACTOR INSTALLED.



CEILING MOUNT OCCUPANCY SENSOR MOUNTING DETAIL

NOT TO SCALE



TYPICAL LINE VOLTAGE LIGHTING CONTROL DIAGRAM OCCUPANCY SENSOR NO LOCAL SWITCHING

NOT TO SCALE

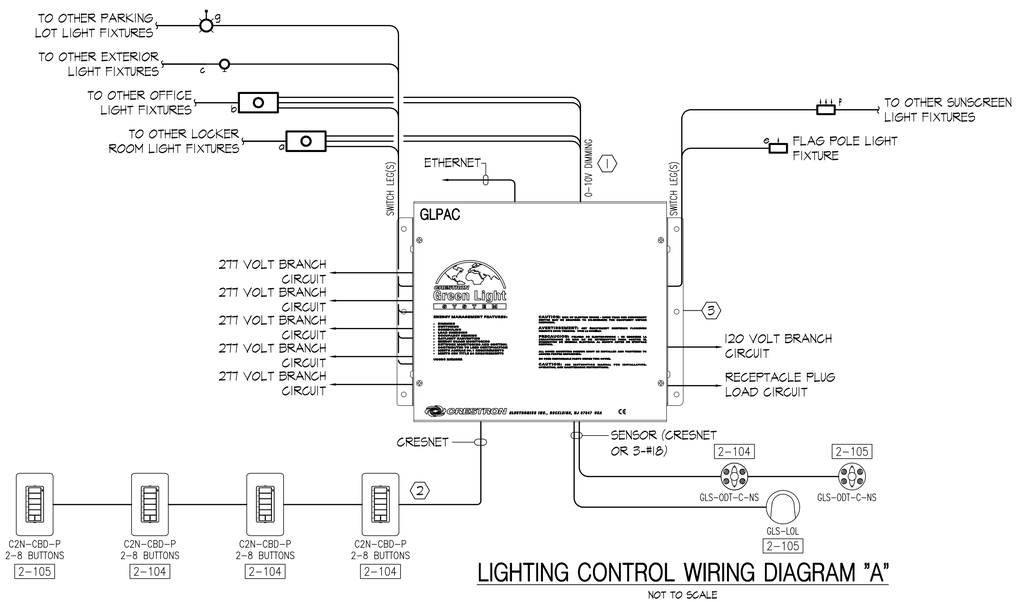
Key Notes

1. PROVIDE 0-10 VOLT DIMMING CONTROL WIRING IN CONDUIT BETWEEN FIXTURES. HOMERUN EACH DIMMING CONTROL WIRING ZONE TO THE LIGHTING CONTROL MODULE.
2. VERIFY LOCATION OF ALL DIGITAL LIGHTING CONTROL SWITCHES WITH OWNER PRIOR TO ROUGH-IN. VERIFY PROGRAMMING OF EACH SWITCH, NUMBER AND TYPE OF BUTTONS WITH OWNER.
3. CRESTRON No. GLPAC-DIMFLV-8

General Notes:

SPECIFIC REFERENCES TO ANY PRODUCT BY NAME, MAKE OR CATALOG NUMBER SHALL BE INTERPRETED AS ESTABLISHING A STANDARD OF QUALITY AND BASIS OF DESIGN AND SHALL NOT BE CONSTRUED AS LIMITED COMPETITION. THE CONTRACTOR SHALL USE A PRODUCT OF TYPE CONSTRUCTION WHICH IN THE OPINION OF THE ENGINEER EXPRESSED IN WRITING IS EQUAL TO THE SPECIFIED.

LIGHTING CONTROLS SHALL MEET FLORIDA BUILDING CODE 2014 REQUIREMENTS.



LIGHTING CONTROL WIRING DIAGRAM "A"

NOT TO SCALE

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PROJECT:

GCSC SOFTBALL COMPLEX

RELEASE:

CONSTRUCTION DOCUMENTS

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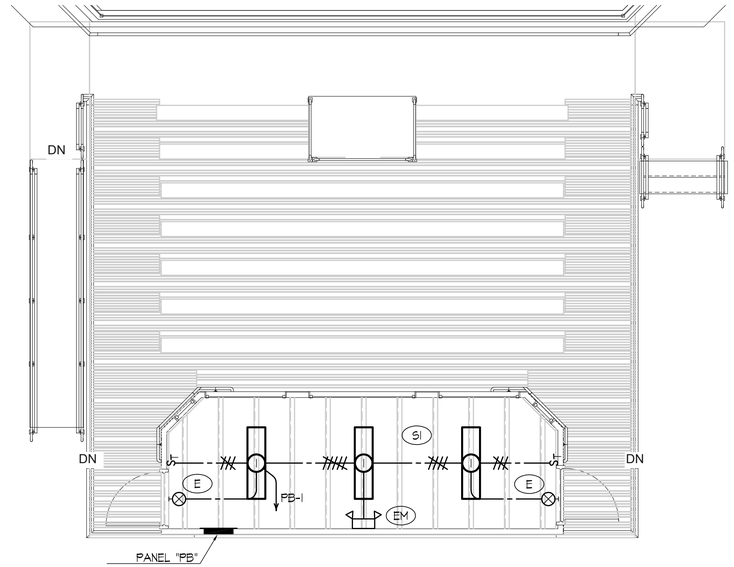
As indicated	05/04/2017
DRAWN: T. A. BOLTON	CHECKED: M. J. REID

NO.	REVISION:	DATE:

SHEET TITLE:

LIGHTING FIXTURE SCHEDULE

PROJECT NO.	SHEET
4226	E3



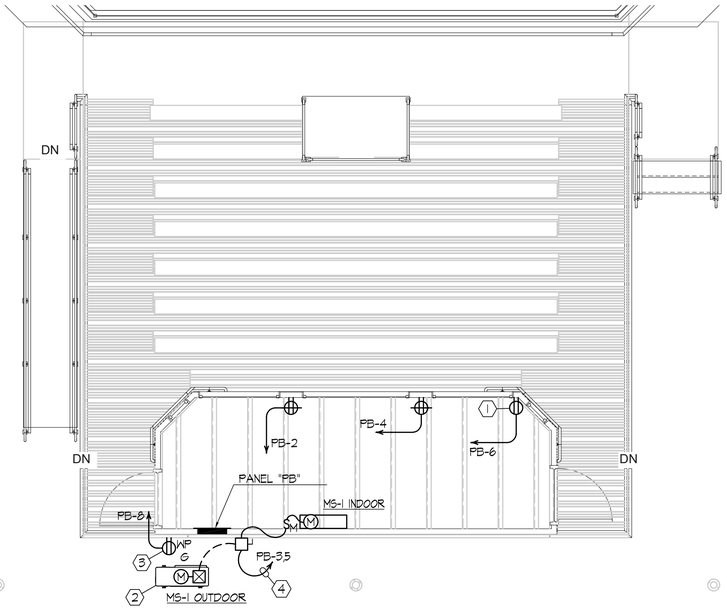
N

ELECTRICAL FLOOR PLAN - LIGHTING

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

NOTE

CONNECT ALL EXIT AND EMERGENCY LIGHTING TO THE NORMAL LIGHTING CIRCUIT IN THE AREA SERVED AHEAD OF ANY SWITCHING OR LIGHTING CONTROLS.



N

ELECTRICAL FLOOR PLAN - POWER

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

Key Notes

1. A/V SYSTEM RECEPTACLE. VERIFY FINAL LOCATION AND MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
2. MS-1 OUTDOOR UNIT AND DISCONNECT SWITCH TO BE INSTALLED UNDER BLEACHER. SEE SHEET M4 FOR EXACT LOCATION.
3. MAINTENANCE RECEPTACLE MOUNTED ON FREE STANDING STRUCTURE NEAR MS-1 OUTDOOR UNIT.
4. HOMERUN TO PANEL THRU 30A/2P NEMA 4X DISCONNECT WITH 2 #10, 1 #10 GND IN 1" CONDUIT

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STATE OF FLORIDA
PROFESSIONAL ENGINEER

MELISSA J. REID, PE #66488

RELEASE:

CONSTRUCTION DOCUMENTS

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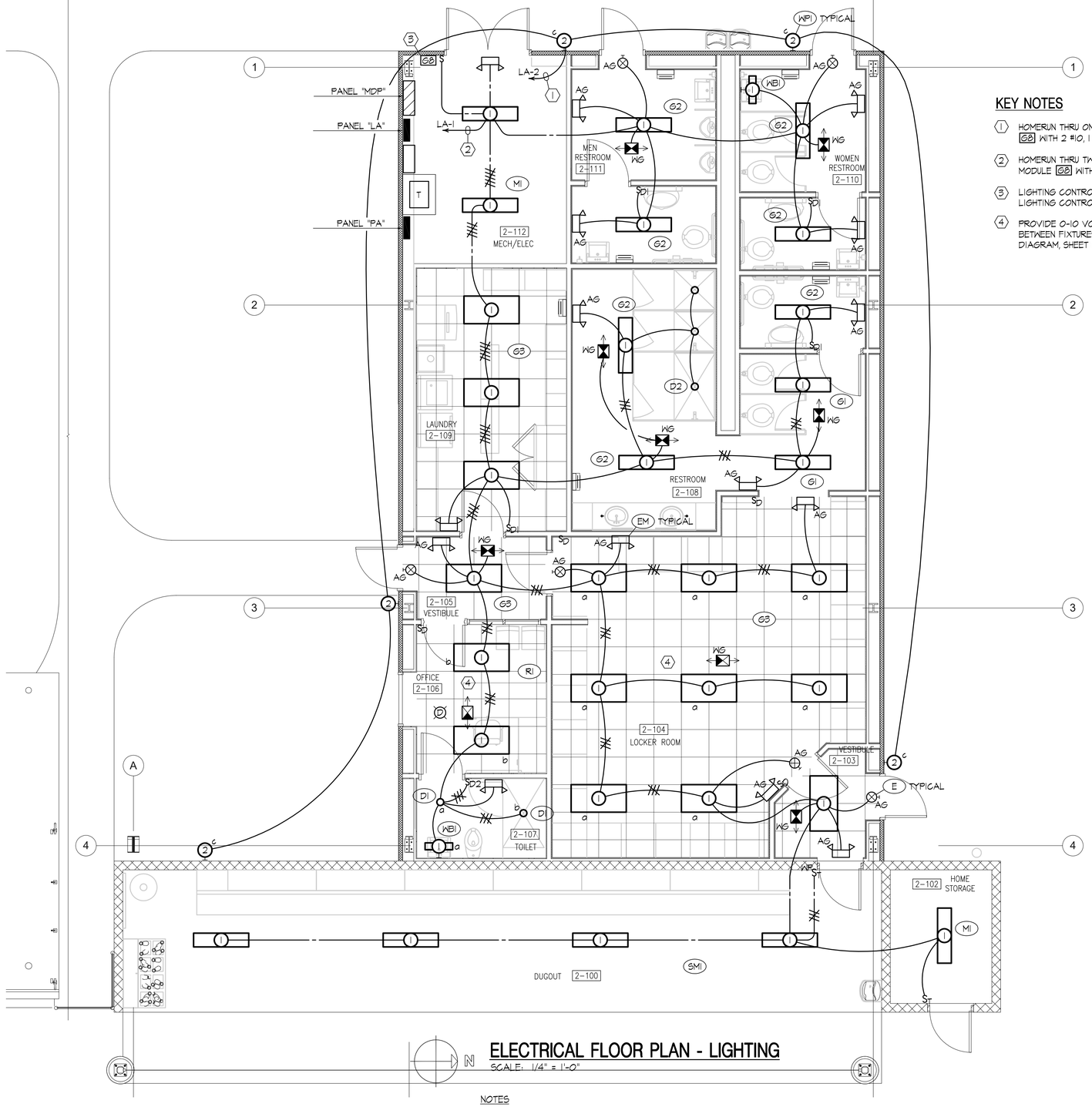
NO.	REVISION:	DATE:

SHEET TITLE:

ELECTRICAL PRESS BOX

PROJECT NO.	SHEET
4226	E4



ELECTRICAL FLOOR PLAN - LIGHTING

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

KEY NOTES

1. HOMERUN THRU ONE (1) ZONE ON LIGHTING CONTROL MODULE GB WITH 2 #10, 1 #10 GND IN 3/4" CONDUIT.
2. HOMERUN THRU TWO (2) ZONES ON LIGHTING CONTROL MODULE GB WITH 4 #10, 1 #10 GND IN 3/4" CONDUIT.
3. LIGHTING CONTROL MODULE GB. SEE DIAGRAM "A" - LIGHTING CONTROL WIRING, SHEET E4.
4. PROVIDE 0-10 VOLT DIMMING CONTROL WIRES IN CONDUIT BETWEEN FIXTURES. SEE LIGHTING CONTROL WIRING DIAGRAM, SHEET E3.

NOTES

1. CONNECT ALL EXIT AND EMERGENCY LIGHTING TO THE NORMAL LIGHTING CIRCUIT IN THE AREA SERVED AHEAD OF ANY SWITCHING OR LIGHTING CONTROLS.
2. PROVIDE EACH OCCUPANCY SENSOR IN STUDENT AREAS WITH A WIRE GUARD. PROVIDE EACH EXIT AND EMERGENCY LIGHT IN STUDENT AREAS WITH A POLYCARBONATE ACRYLIC GUARD.

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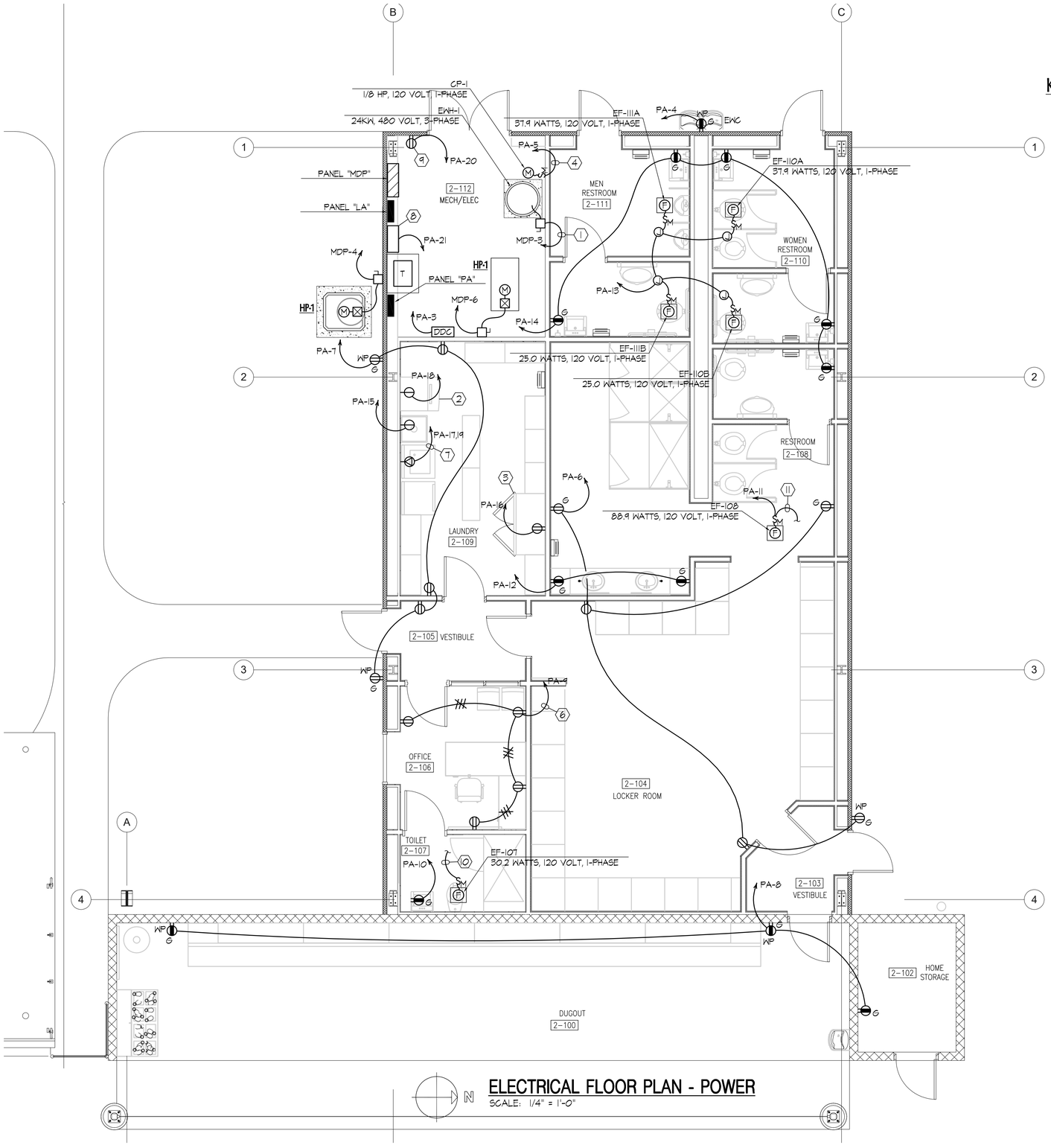
As indicated	05/04/2017
DRAWN: T. A. BOLTON	CHECKED: M. J. REID

NO.	REVISION:	DATE:

SHEET TITLE:

ELECTRICAL HOME LOCKER FACILITY

PROJECT NO.	SHEET
4226	E5



ELECTRICAL FLOOR PLAN - POWER

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

Key Notes

1. HOMERUN THRU 60A/3P NEMA 1 DISCONNECT SWITCH WITH 3 #4, 1 #10 GND IN 1-1/4" CONDUIT. PROVIDE 60A/3P NEMA 1 RATED CONTACTOR RELAY FOR DDC INTERLOCK. COORDINATE COIL VOLTAGE WITH DDC CONTRACTOR. COORDINATE LOCATION OF DISCONNECT AND CONTACTOR RELAY TO ENSURE INSTALLED IN AN ACCESSIBLE LOCATION.
2. ICE MACHINE - 120 VOLT, 1-PHASE
3. REFRIGERATOR - 120 VOLT, 1-PHASE
4. HOMERUN THRU MOTOR RATED TOGGLE SWITCH. COORDINATE LOCATION OF DISCONNECT TO ENSURE INSTALLED IN AN ACCESSIBLE LOCATION.
5. VERIFY LOCATION OF PANIC/EMERGENCY SWITCH WITH OWNER IN THE FIELD PRIOR TO ROUGH-IN.
6. HOMERUN THRU LIGHTING CONTROL MODULE RECEPTACLE CONTROL RELAY. SEE LIGHTING CONTROL WIRING DIAGRAM "B", THIS SHEET. EXTERIOR RECEPTACLE SHALL NOT BE CONTROLLED BY MODULE. RECEPTACLES SHALL BE BE WIRED TO MEET FLORIDA ENERGY CODE FOR PLUG LOAD CONTROLS. RECEPTACLES SHALL BE LABELED IN ACCORDANCE WITH NEC 406.
7. HOMERUN WITH 3 #10, 1 #10 GND IN 3/4" CONDUIT.
8. FIELD LIGHTING CONTACTOR CABINET - 120 VOLT, 1-PHASE
9. IRRIGATION CONTROLLER - 120 VOLT, 1-PHASE
10. TO CIRCUIT PA-11
11. TO EF-107

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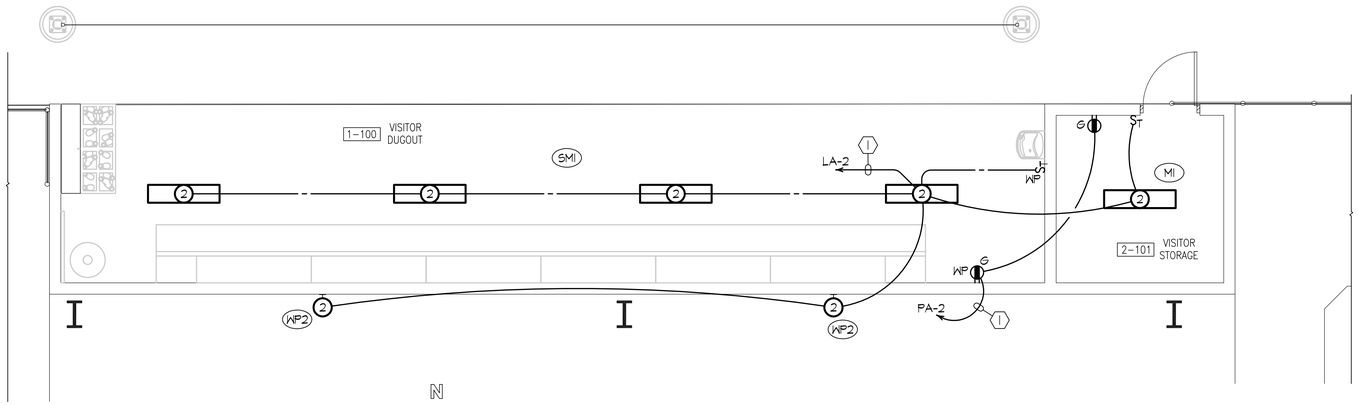
SHEET TITLE:
ELECTRICAL HOME LOCKER FACILITY

PROJECT NO.	SHEET
4226	E6



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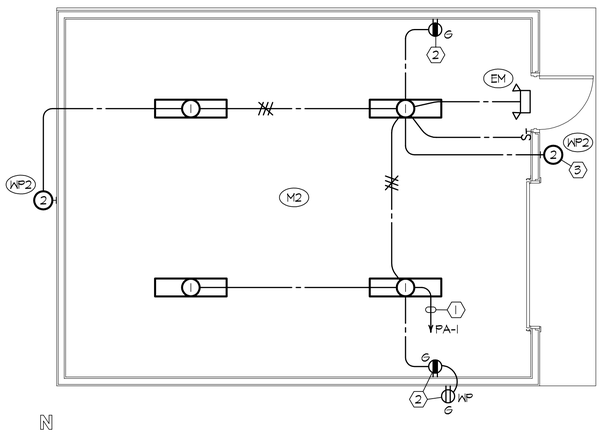
ELECTRICAL FLOOR PLAN - VISITOR DUGOUT

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

KEY NOTES

1. HOMERUN TO PANEL "PA" WITH 2 #10, 1 #10 GND IN 1" CONDUIT.
2. EXTERIOR LIGHT FIXTURES TO BE CONTROLLED BY INTEGRAL PHOTOCELL AND CONNECTED TO BRANCH CIRCUIT UNSWITCHED LEG.



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ELECTRICAL FLOOR PLAN - STORAGE BUILDING

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

KEY NOTES

1. HOMERUN TO PANEL "PA" WITH 2 #10, 1 #10 GND IN 1" CONDUIT.
2. RECEPTACLES TO BE CONNECTED TO BRANCH CIRCUIT UNSWITCHED LEG.
3. EXTERIOR LIGHT FIXTURES TO BE CONTROLLED BY INTEGRAL PHOTOCELL AND CONNECTED TO BRANCH CIRCUIT UNSWITCHED LEG.

NOTE

CONNECT ALL EXIT AND EMERGENCY LIGHTING TO THE NORMAL LIGHTING CIRCUIT IN THE AREA SERVED AHEAD OF ANY SWITCHING OR LIGHTING CONTROLS.

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SHEET TITLE:
ELECTRICAL VISITOR DUGOUT & STORAGE BUILDING

PROJECT NO. 4226
SHEET E7

PANEL "MDP" — MINIMUM INTERRUPTING RATING 20,000 AMPS — NEMA 1 ENCLOSURE

480/277 VOLT, 3 PHASE, 4 WIRE, 60Hz — 400 AMP MAIN BREAKER — SURFACE MOUNTED

CKT No.	TYPE	DESCRIPTION LOCATION	BREAKERS POLE	BREAKERS AMP	KVA	KVA	BREAKERS AMP	BREAKERS POLE	DESCRIPTION LOCATION	DESCRIPTION TYPE	CKT No.
1	PNL	PANEL "LA"	3	200	87.74	51.18	125	3	PANEL "PA" THRU TRANSFORMER	PNL	2
3	PWR	EWH-1	3	40	24.00	14.87	25	3	HP-1 OUTDOOR	HVAC	4
5		SURGE PROTECTIVE DEVICE	3	30		17.04	30	3	HP-1 INDOOR	HVAC	6
7		SPACE ONLY	3					3	SPACE ONLY		8
9		SPACE ONLY	3					3	SPACE ONLY		10
11		SPACE ONLY	3					3	SPACE ONLY		12

CONNECTED LOAD 194.84 KVA — **DEMAND LOAD** 189.65 KVA

PANEL "PA" — MINIMUM INTERRUPTING RATING 10,000 AMPS — NEMA 1 ENCLOSURE

120/240 VOLT, 1 PHASE, 3 WIRE, 60Hz — 400 AMP MAIN BREAKER — SURFACE MOUNTED

CKT No.	TYPE	DESCRIPTION LOCATION	BREAKERS POLE	BREAKERS AMP	KVA	KVA	BREAKERS AMP	BREAKERS POLE	DESCRIPTION LOCATION	DESCRIPTION TYPE	CKT No.
1	LTG	STORAGE BUILDING LTG AND RECP	1	20	0.80	0.36	20	1	VISITOR DUGOUT RECEPTACLES	RECP	2
3	PWR	DDC	1	20	0.50	0.50	20	1	EWC	RECP	4
5	PWR	CP-1 CIRC PUMP	1	20	0.50	0.90	20	1	RM 108, 104, EXT	RECP	6
7	RECP	RM 109, 105, EXT	1	20	0.90	0.54	20	1	HOME DUGOUT RECEPTACLES	RECP	8
9	RECP	RM 106 OFFICE	1	20	0.72	0.18	20	1	RM 107 GFCI	RECP	10
11	PWR	EF-107, EF-108	1	20	0.12	0.09	20	1	RM 108 GFCI RECEPTACLES	RECP	12
13	PWR	EF-110, EF-110A, EF-111, EF-111A	1	20	0.13	1.50	20	1	RMs 108, 110, 111 GFCI RECEP	RECP	14
15	APPL	WASHER	1	20	1.50	1.50	20	1	REFRIGERATOR	APPL	16
17	APPL	DRYER	2	30	5.00	1.50	20	1	ICE MAKER	APPL	18
19						0.50	20	1	IRRIGATION CONTROLLER	RECP	20
21	PWR	FIELD LIGHTING CONTROL PANEL	1	20	0.50	1.50	20	1	SCOREBOARD	PWR	22
23	RECP	BACKSTOP RECEPTACLE	1	20	0.18	0.18	20	1	SCOREBOARD MAINTENANCE REC	RECP	24
25	RECP	BULL PEN RECEP, HOME SIDE	1	20	1.50	1.50	20	1	BATTING CAGE RECP, HOME SIDE	RECP	26
27	RECP	BATTING CAGES RECP, VISITOR SIDE	1	20	1.50	1.50	20	1	BATTING CAGE RECP, HOME SIDE	RECP	28
29	RECP	MAINTENANCE RECP WELL PUMP	1	20	0.18	9.60	50	2	FOOD TRUCK RECEPTACLE	PWR	30
31	PWR	IRRIGATION WELL	2	60	6.30						32
33							20	1	SPARE BREAKER		34
35	PNL	PANEL "PB"	2	60	8.58		20	1	SPARE BREAKER		36
37							20	1	SPARE BREAKER		38
39		SURGE PROTECTIVE DEVICE	2	30			20	1	SPARE BREAKER		40
41							20	1	SPARE BREAKER		42
43		SPARE BREAKER	1	20			20	1	SPARE BREAKER		44
45		SPARE BREAKER	1	20			20	1	SPARE BREAKER		46
47		SPARE BREAKER	1	20			20	1	SPARE BREAKER		48
49		SPARE BREAKER	1	20			20	1	SPARE BREAKER		50
51		SPARE BREAKER	1	20			20	1	SPARE BREAKER		52
53		SPACE ONLY	1					1	SPACE ONLY		54
55		SPACE ONLY	1					1	SPACE ONLY		56
57		SPACE ONLY	1					1	SPACE ONLY		58
59		SPACE ONLY	1					1	SPACE ONLY		60

CONNECTED LOAD 51.18 KVA — **DEMAND LOAD** 45.99 KVA

PANEL "LA" — MINIMUM INTERRUPTING RATING 15,000 AMPS — NEMA 1 ENCLOSURE

480/277 VOLT, 3 PHASE, 4 WIRE, 60Hz — 200 AMP MAIN LUGS ONLY — SURFACE MOUNTED

CKT No.	TYPE	DESCRIPTION LOCATION	BREAKERS POLE	BREAKERS AMP	KVA	KVA	BREAKERS AMP	BREAKERS POLE	DESCRIPTION LOCATION	DESCRIPTION TYPE	CKT No.
1	LTG	HOME LOCKER ROOM	1	20	0.90	0.03	20	1	VISITOR SIDE DUGOUT	LTG	2
3	LTG	HOME LOCKER ROOM EXTERIOR	1	20	0.14	1.53	20	1	PARKING LOT LIGHTING	LTG	4
5	LTG	FLAG POLE LIGHT	1	20	0.18	0.44	20	1	CANOPY LIGHTING	LTG	6
7	LTG	FIELD LIGHTING VISITOR DUGOUT	3	30	9.72	9.72	30	3	FIELD LIGHTING HOME DUGOUT	LTG	8
											10
											12
9	LTG	FIELD LIGHTING RIGHT FIELD	3	40	21.11	22.44	40	3	FIELD LIGHTING LEFT FIELD	LTG	14
11	LTG	BULL PEN LIGHTING VISITOR DUGOUT	3	30	6.15	6.15	30	3	BALL PEN LIGHTING HOME DUG.	LTG	20
13	LTG	BALL PEN LIGHTING RIGHT FIELD	3	30	3.07	6.15	30	3	BALL PEN LIGHTING LEFT FIELD	LTG	26
15		SURGE PROTECTIVE DEVICE	3	30				3	SPACE ONLY		32
											34
								1			36
17		SPARE BREAKER	1	20			20	1	SPARE BREAKER		38
19		SPARE BREAKER	1	20			20	1	SPARE BREAKER		40
21		SPARE BREAKER	1	20			20	1	SPARE BREAKER		42

CONNECTED LOAD 87.74 KVA — **DEMAND LOAD** 87.74 KVA

PANEL "PB" — MINIMUM INTERRUPTING RATING 10,000 AMPS — NEMA 1 ENCLOSURE

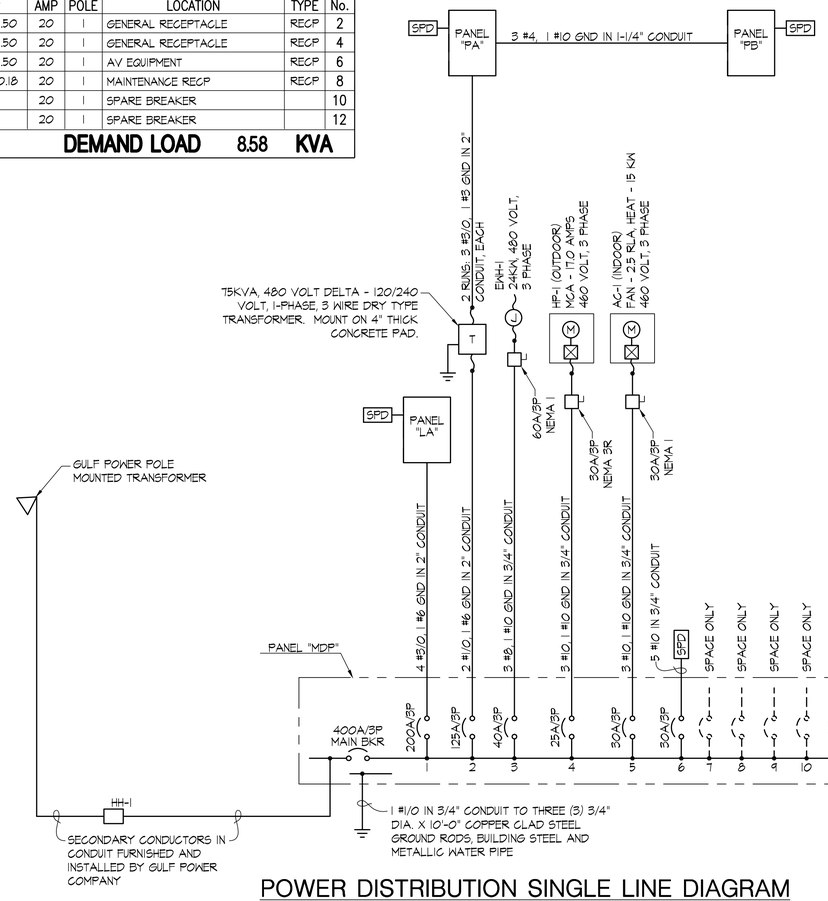
120/240 VOLT, 1 PHASE, 3 WIRE, 60Hz — 60 AMP MAIN BREAKER — SURFACE MOUNTED

CKT No.	TYPE	DESCRIPTION LOCATION	BREAKERS POLE	BREAKERS AMP	KVA	KVA	BREAKERS AMP	BREAKERS POLE	DESCRIPTION LOCATION	DESCRIPTION TYPE	CKT No.
1	LTG	PRESS BOX LIGHTING	1	20	0.10	1.50	20	1	GENERAL RECEPTACLE	RECP	2
3	HVAC	MS-1 MINI SPLIT	2	20	3.80	1.50	20	1	GENERAL RECEPTACLE	RECP	4
5						1.50	20	1	AV EQUIPMENT	RECP	6
7		SURGE PROTECTIVE DEVICE	3	30		0.18	20	1	MAINTENANCE RECP	RECP	8
9							20	1	SPARE BREAKER		10
11							20	1	SPARE BREAKER		12

CONNECTED LOAD 8.58 KVA — **DEMAND LOAD** 8.58 KVA

SURGE PROTECTIVE DEVICE SCHEDULE

PANEL	VOLTAGE	MANUFACTURER	MODEL No.	OPTIONS
PANEL "MDP"	480V, 3 PHASE	SURGE SUPPRESSION INC.	L5EA3Y2ACC	PROVIDE WITH INTERNAL AUDIBLE ALARM AND DRY RELAY CONTACTS
PANEL "LA"	480V, 3 PHASE	SURGE SUPPRESSION INC.	CKLA3Y2ACC	PROVIDE WITH INTERNAL AUDIBLE ALARM AND DRY RELAY CONTACTS
PANELS "PA" AND "PB"	208V, 3 PHASE	SURGE SUPPRESSION INC.	CKLA1S1ACC	PROVIDE WITH INTERNAL AUDIBLE ALARM AND DRY RELAY CONTACTS



POWER DISTRIBUTION SINGLE LINE DIAGRAM

NOT TO SCALE

Dewberry | PREBLE-RISH
203 ABERDEEN PKWY, PANAMA CITY, FL 32405
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CONSULTANTS:
FLORIDA ARCHITECTS
LICENSE #AA0002730

GULF COAST STATE COLLEGE
SINCE 1957

CLIENT:

GULF COAST STATE COLLEGE

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FLORIDA 32401
850.169.1551
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PROJECT:

GCSC SOFTBALL COMPLEX

Premier Engineering Group, LLC
410 W. Nine Mile Road, Suite A Pensacola, Florida 32534
Florida Certificate of Authorization #5508
Phone: (850) 469-0405 Fax: (850) 432-0905
Premier Project #17015

NOT APPROVED UNLESS STAMPED WITH PROFESSIONAL ENGINEER'S SEAL
MELISSA JUNE REID LICENSE No. 66488 STATE OF FLORIDA PROFESSIONAL ENGINEER
MELISSA J. REID, PE #66488

RELEASE:

CONSTRUCTION DOCUMENTS

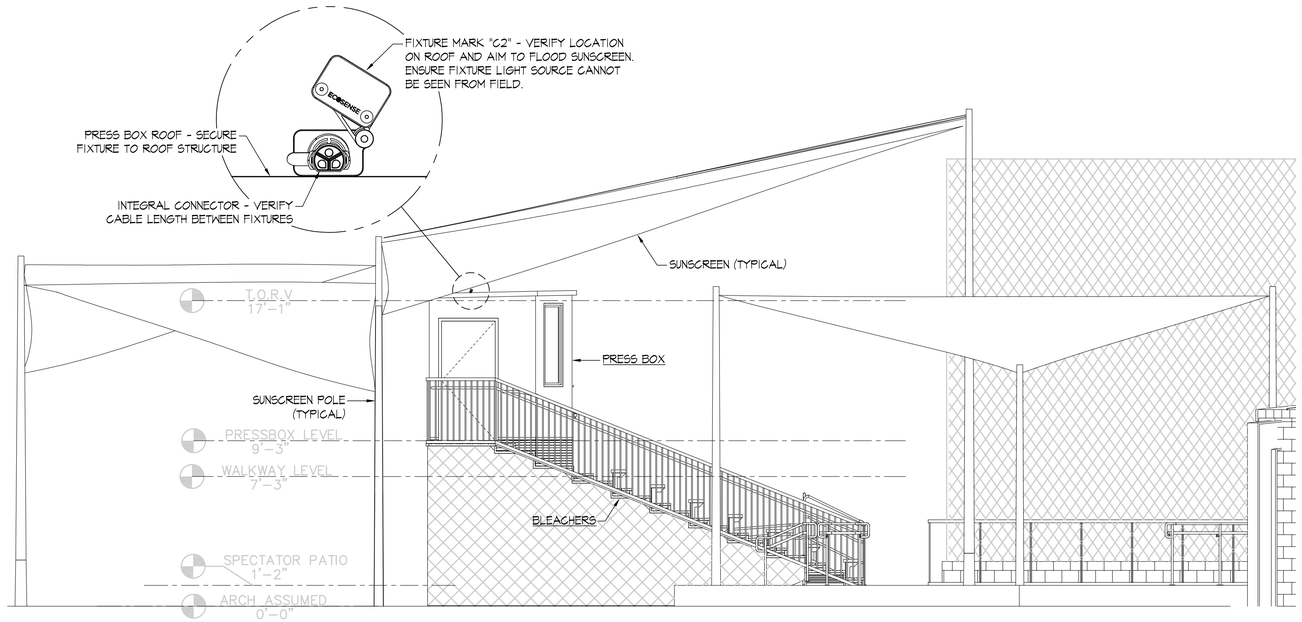
SCALE:	DATE:
As indicated	05/04/2017
DRAWN: T. A. BOLTON	CHECKED: M. J. REID

NO.	REVISION:	DATE:

SHEET TITLE:

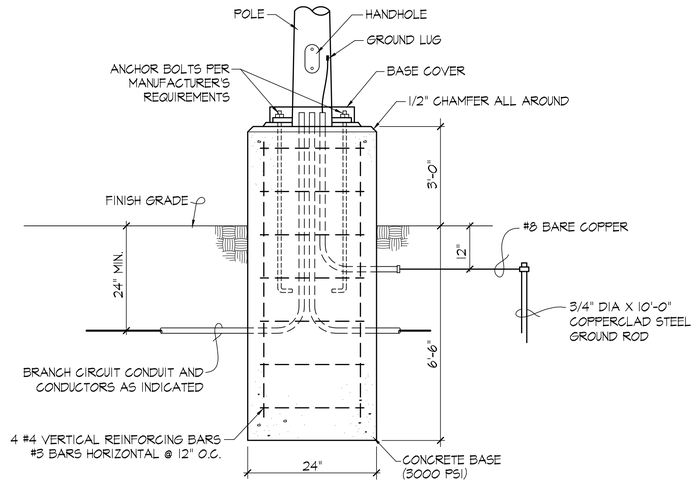
ELECTRICAL PANEL SCHEDULES

PROJECT NO.	SHEET
4226	E8



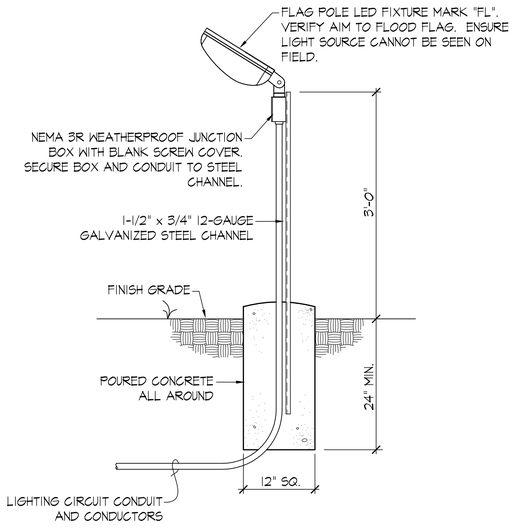
FIXTURE MARK "C2" MOUNTING DETAIL - PRESS BOX EAST ELEVATION

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



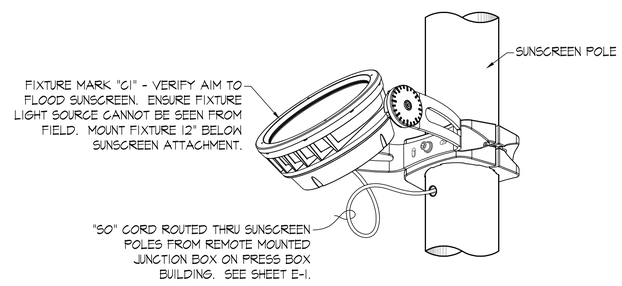
FIXTURE MARK "PLE" LIGHT POLE FOUNDATION DETAIL

NOT TO SCALE



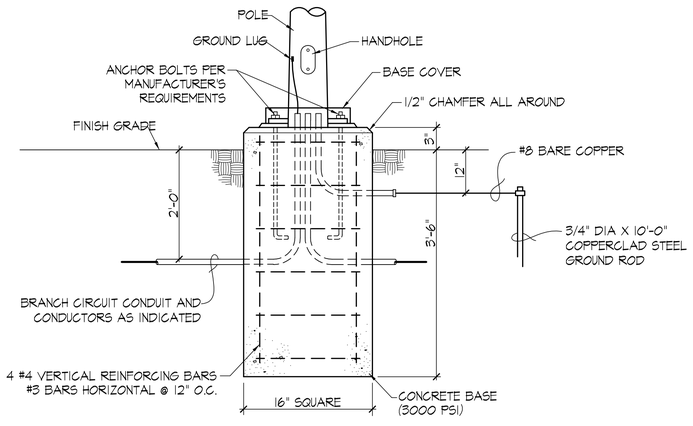
FIXTURE MARK "FL" MOUNTING DETAIL - FLAG POLE

NOT TO SCALE



FIXTURE MARK "C1" MOUNTING DETAIL

NOT TO SCALE



FIXTURES MARK "PA" & "PB" LIGHT POLE FOUNDATION DETAIL

NOT TO SCALE

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CONSULTANTS:
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LICENSE #AA0002730

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Premier Project #17015

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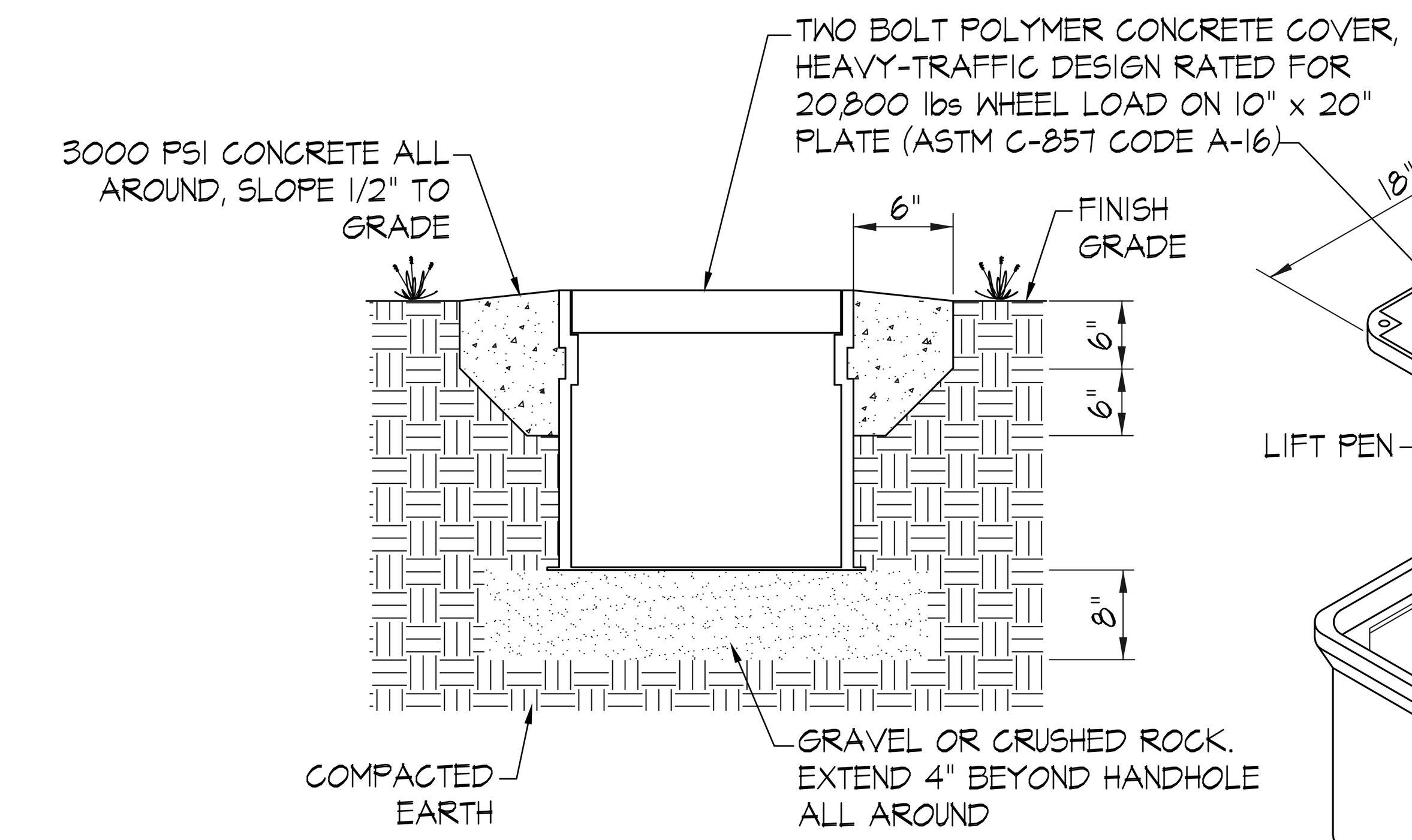
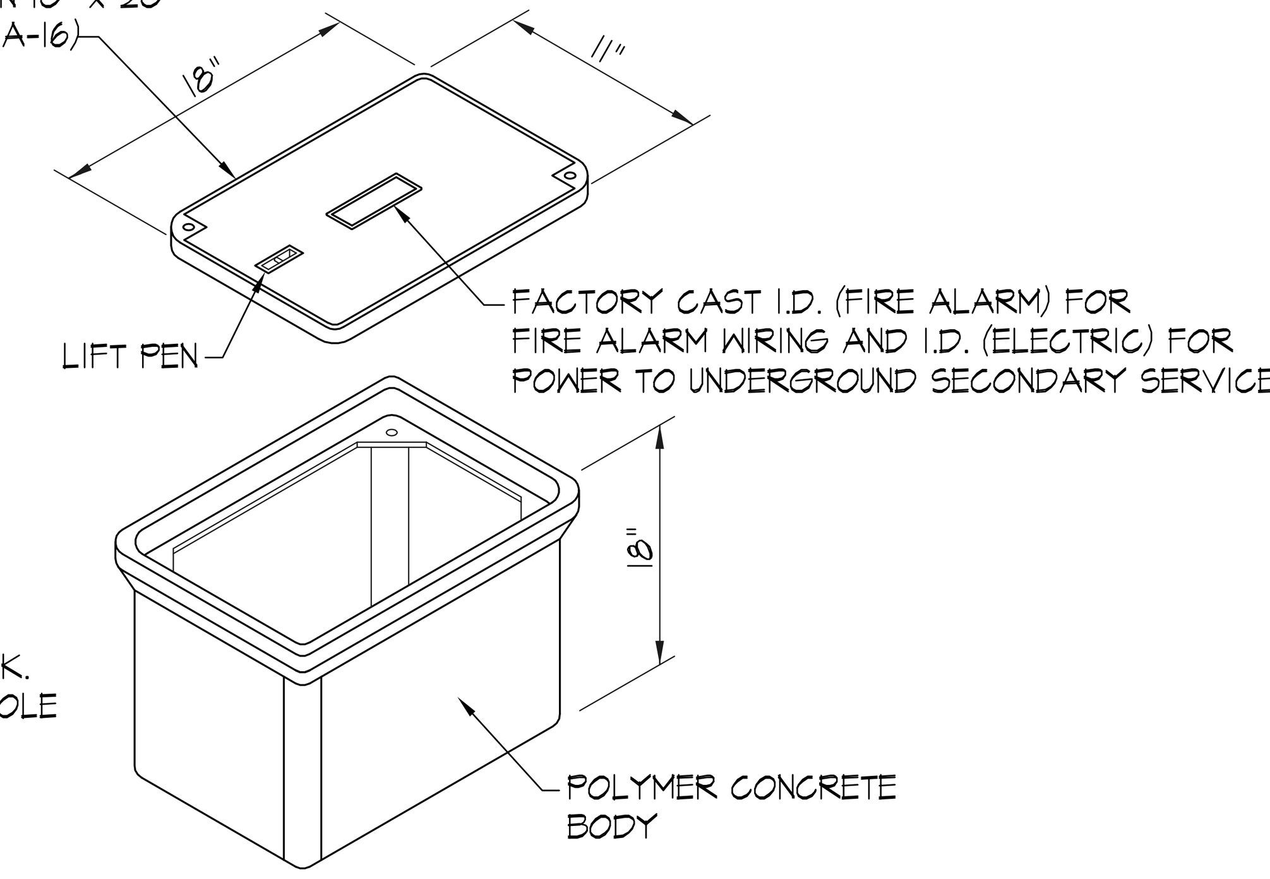
NO.	REVISION:	DATE:

SHEET TITLE:
ELECTRICAL DETAILS

PROJECT NO.	SHEET
4226	E9



Installation Detail



Construction Detail

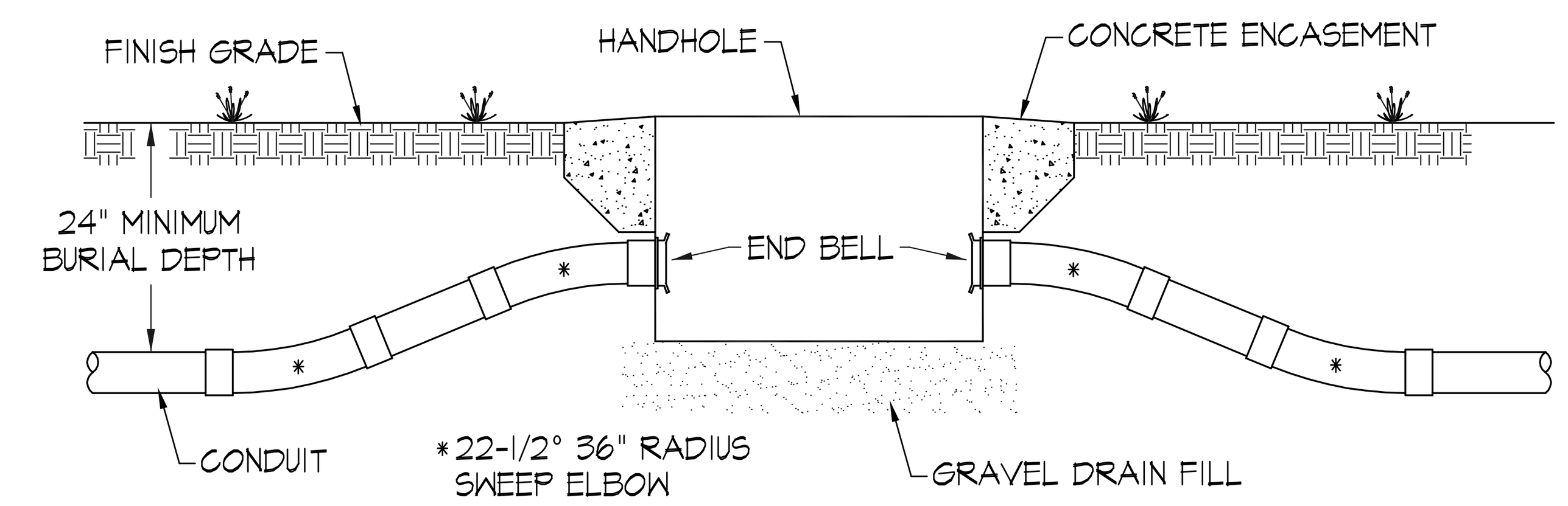
TYPICAL HANDHOLE NOTES:

1) HANDHOLE SHALL BE NEWBASIS PCA111818-00006 WITH PCC1118PI-00002 COVER (LOGO = COMMUNICATION OR ELECTRIC). INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS AND THESE REQUIREMENTS.

2) TERMINATE CONDUITS ENTERING HANDHOLE WITH END BELL (CARLON E997). CONSTRUCT CONDUIT RISE TO ENTER BOX FROM SIDE WITH 22-1/2° SWEEP ELBOWS. SEE "TYPICAL HANDHOLE CONDUIT ENTRY DETAIL - THIS SHEET.

TYPICAL SMALL HANDHOLE DETAILS - HH-A

NOT TO SCALE



TYPICAL HANDHOLE CONDUIT ENTRY DETAIL

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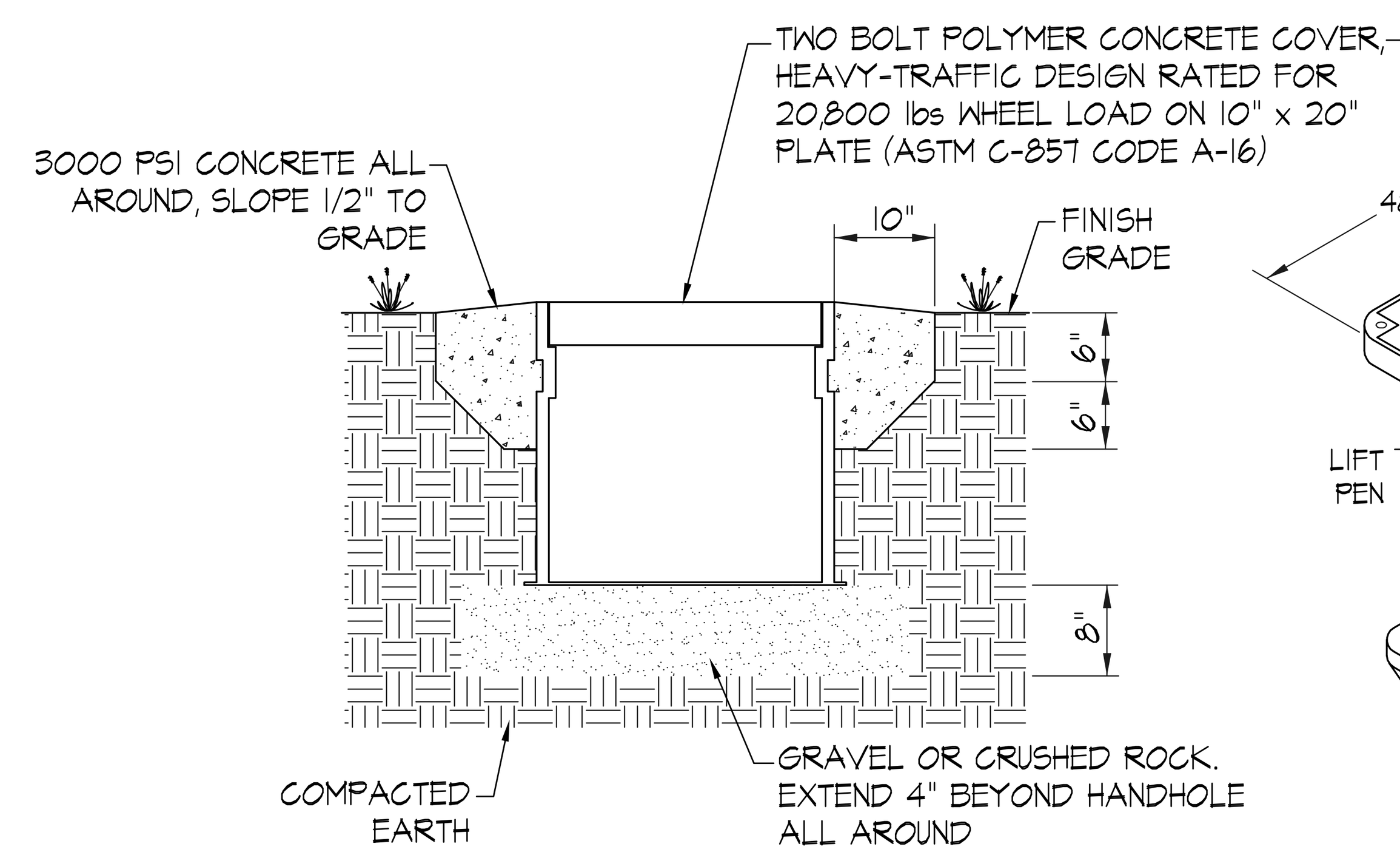
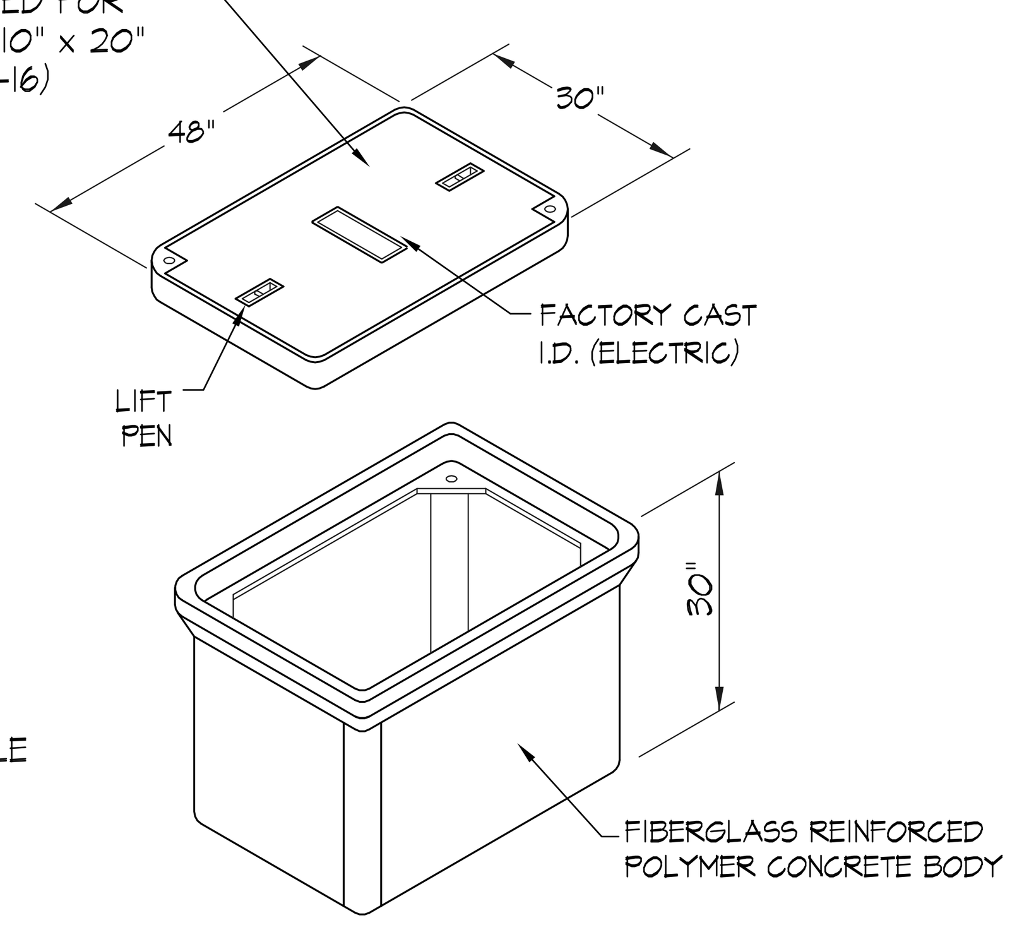


Installation Detail



Construction Detail

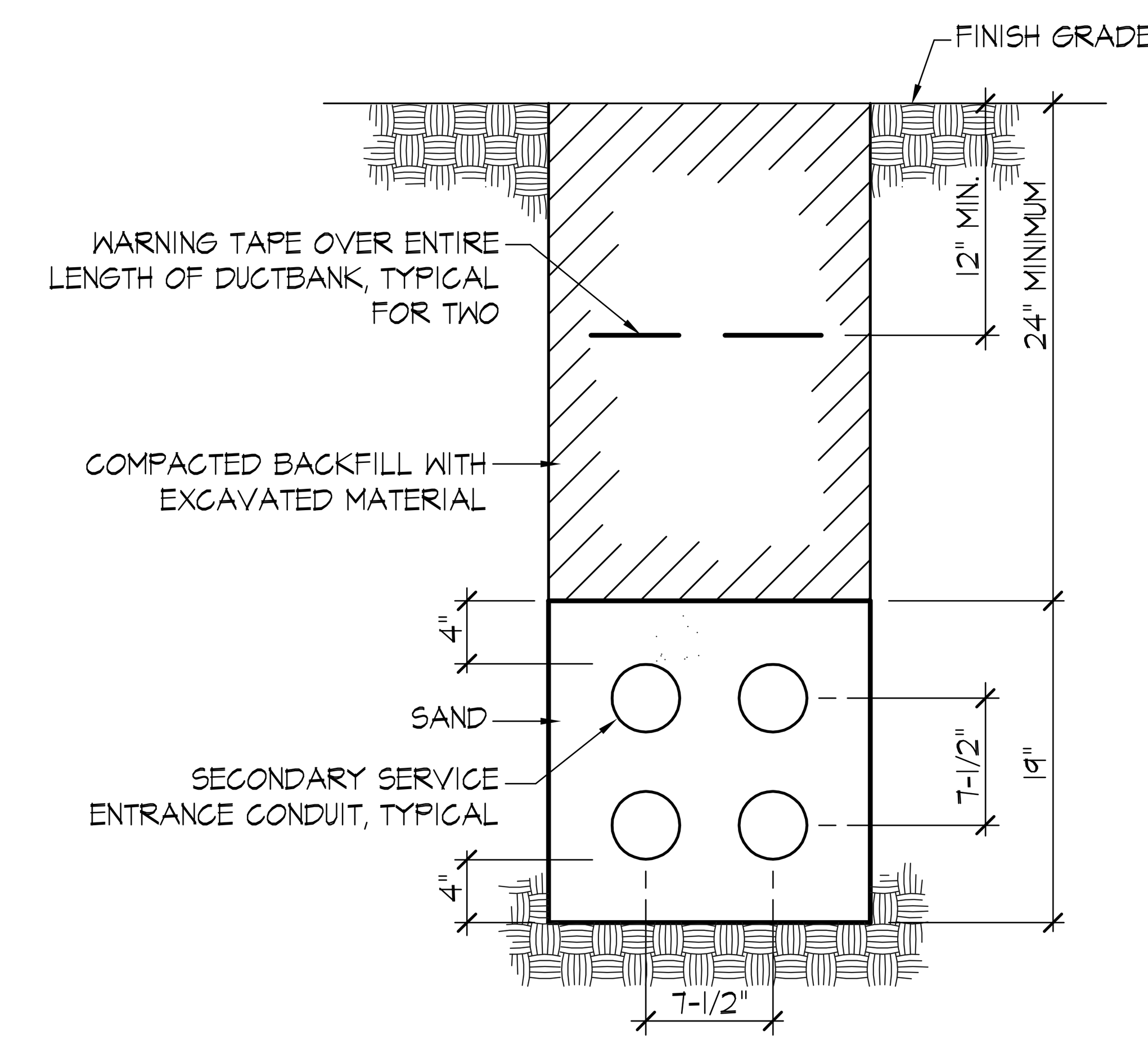
HANDHOLE NOTES:

1) HANDHOLE SHALL BE NEWBASIS PCA304830-00012 WITH PCC3048PI-00002 COVER (LOGO=ELECTRIC). INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS AND THESE REQUIREMENTS.

2) TERMINATE CONDUITS ENTERING HANDHOLE WITH END BELL (CARLON E997). CONSTRUCT CONDUIT RISE TO ENTER BOX FROM SIDE WITH 22-1/2° SWEEP ELBOWS. SEE "TYPICAL CONDUIT ENTRY DETAIL", THIS SHEET.

TYPICAL LARGE HANDHOLE DETAILS - HH-B

NOT TO SCALE



TRENCH DETAIL

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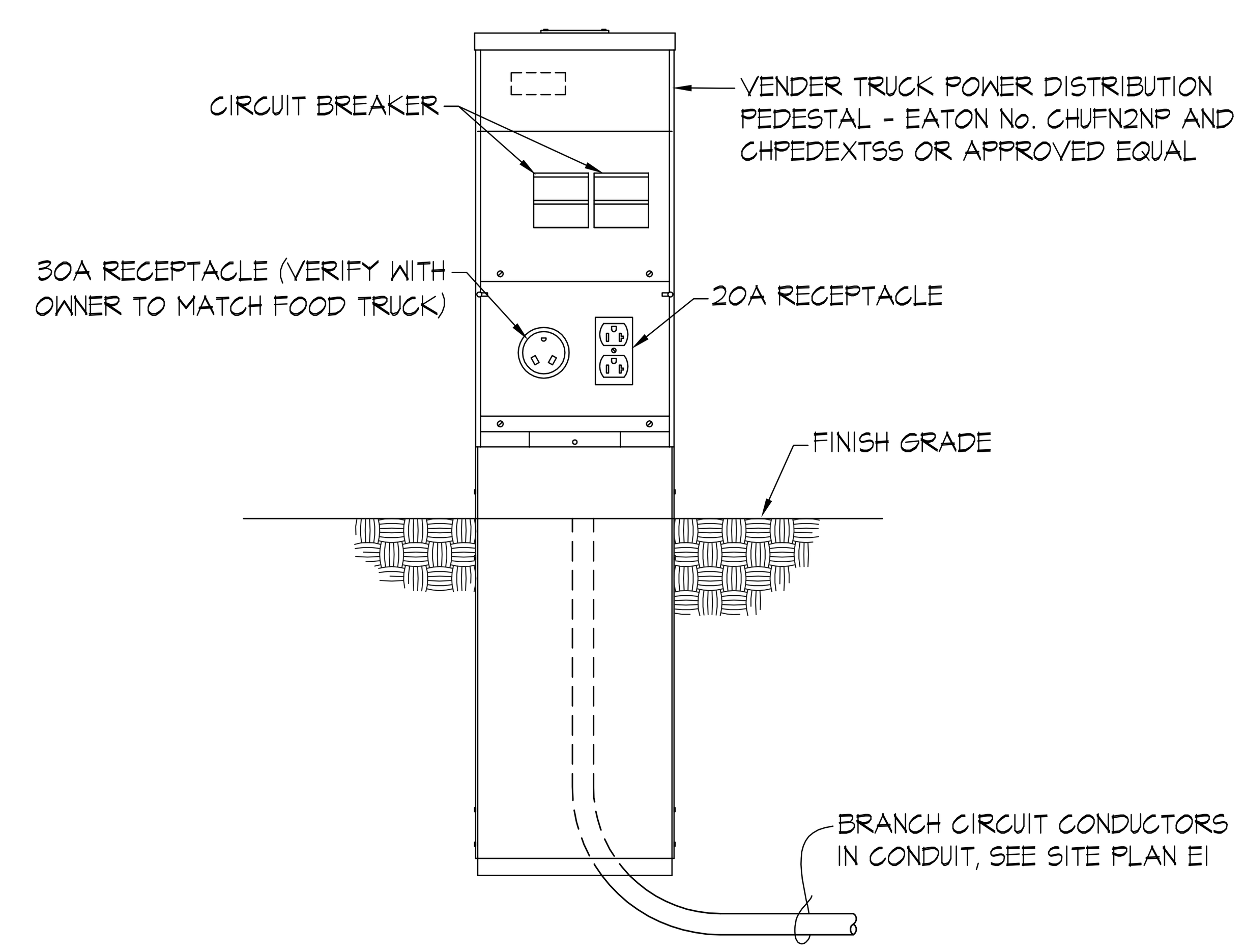

PEDESTAL INSTALLATION DETAIL

NOT TO SCALE

Dewberry | PREBLE-RISH
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(850) 522-0644

CONSULTANTS:
FLA FLORIDA ARCHITECTS
LICENSE #AA0002730

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STATE COLLEGE
SINCE 1957

CLIENT:

GULF COAST STATE COLLEGE

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gulfcoast.edu

PROJECT:

GCSC SOFTBALL COMPLEX

Premier Engineering Group, LLC

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MELISSA JUNE REID LICENSE No. 66488 STATE OF FLORIDA PROFESSIONAL ENGINEER
MELISSA J. REID, PE #66488

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CONSTRUCTION DOCUMENTS

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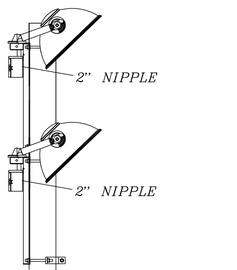
NO.	REVISION:	DATE:

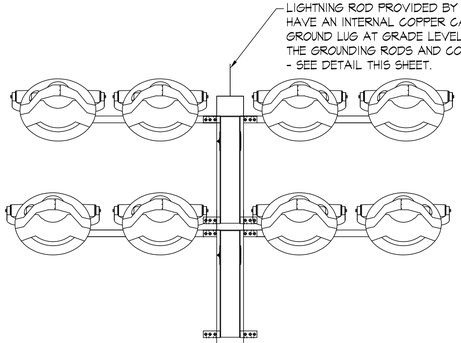
SHEET TITLE:

ELECTRICAL DETAILS

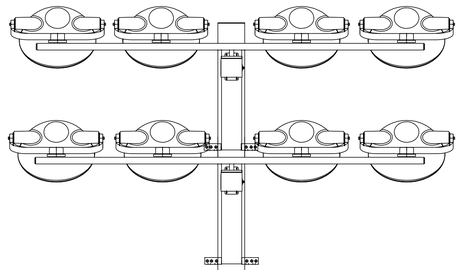
PROJECT NO.	SHEET
4226	E10



SIDE VIEW

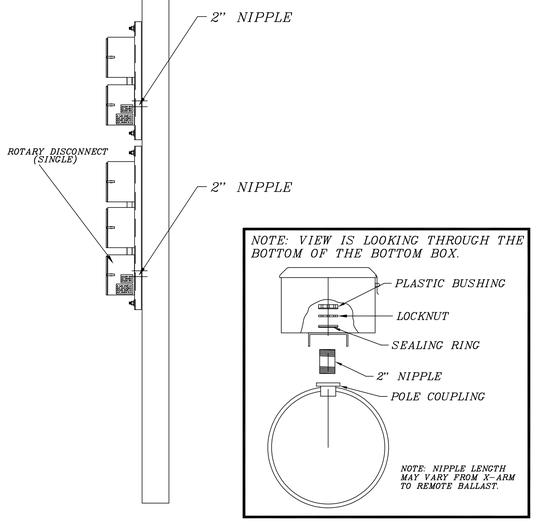


FRONT VIEW

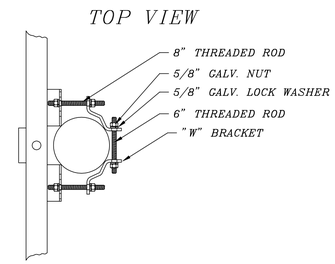


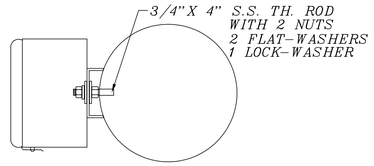
BACK VIEW

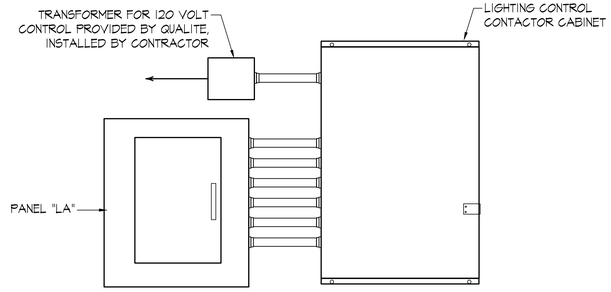
230'/225'/230' SOFTBALL FIELD LIGHTING
GULF COAST STATE COLLEGE, PANAMA CITY, FL



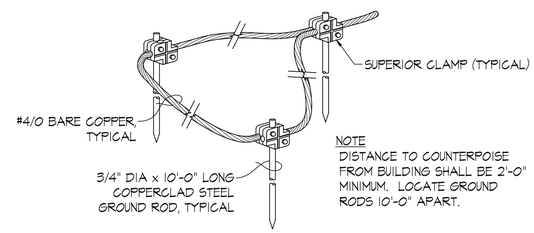
STADIUM LIGHTING POLE DETAILS - QUALITE
NOT TO SCALE



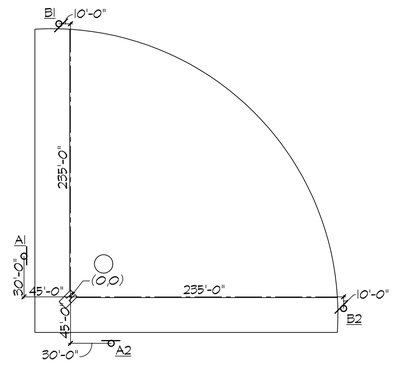




SOFTBALL FIELD CONTROL WIRING DIAGRAM
NOT TO SCALE



TRIANGULAR COUNTERPOISE
GROUNDING ARRANGEMENT DETAIL
NOT TO SCALE



Lighting Pole Key Plan - QUALITE
NOT TO SCALE

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CONSULTANTS:

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LICENSE #AA0002730

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SINCE 1957

CLIENT:

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LICENSE
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STATE OF FLORIDA
PROFESSIONAL ENGINEER

MELISSA J. REID, PE #66488

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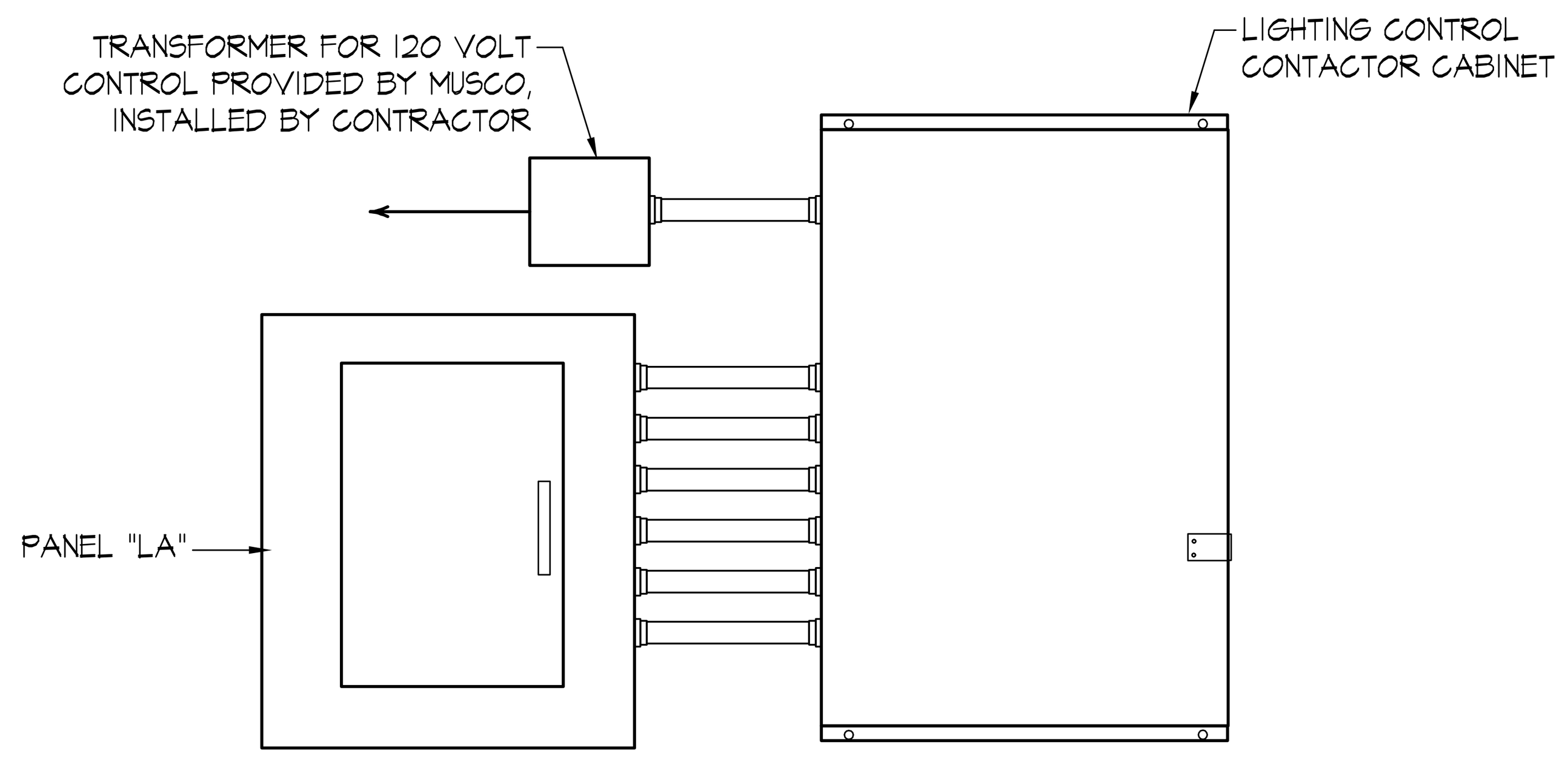
SHEET TITLE:

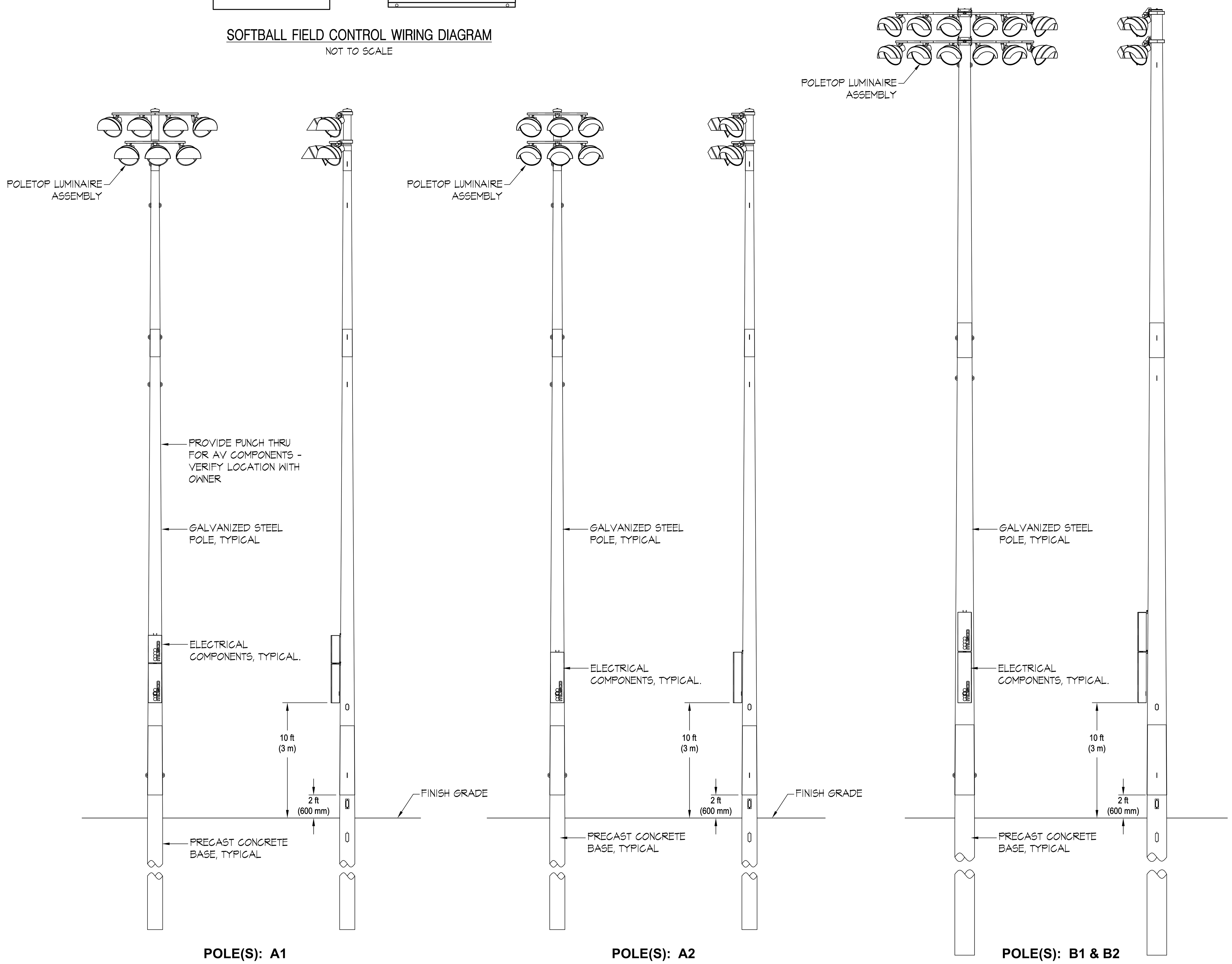
ELECTRICAL DETAILS

PROJECT NO.	SHEET
4226	E11



SOFTBALL FIELD CONTROL WIRING DIAGRAM

NOT TO SCALE



POLE(S): A1

Musco 60FT Light-Structure System™ pole Green Generation™ luminaires

POLE(S): A2

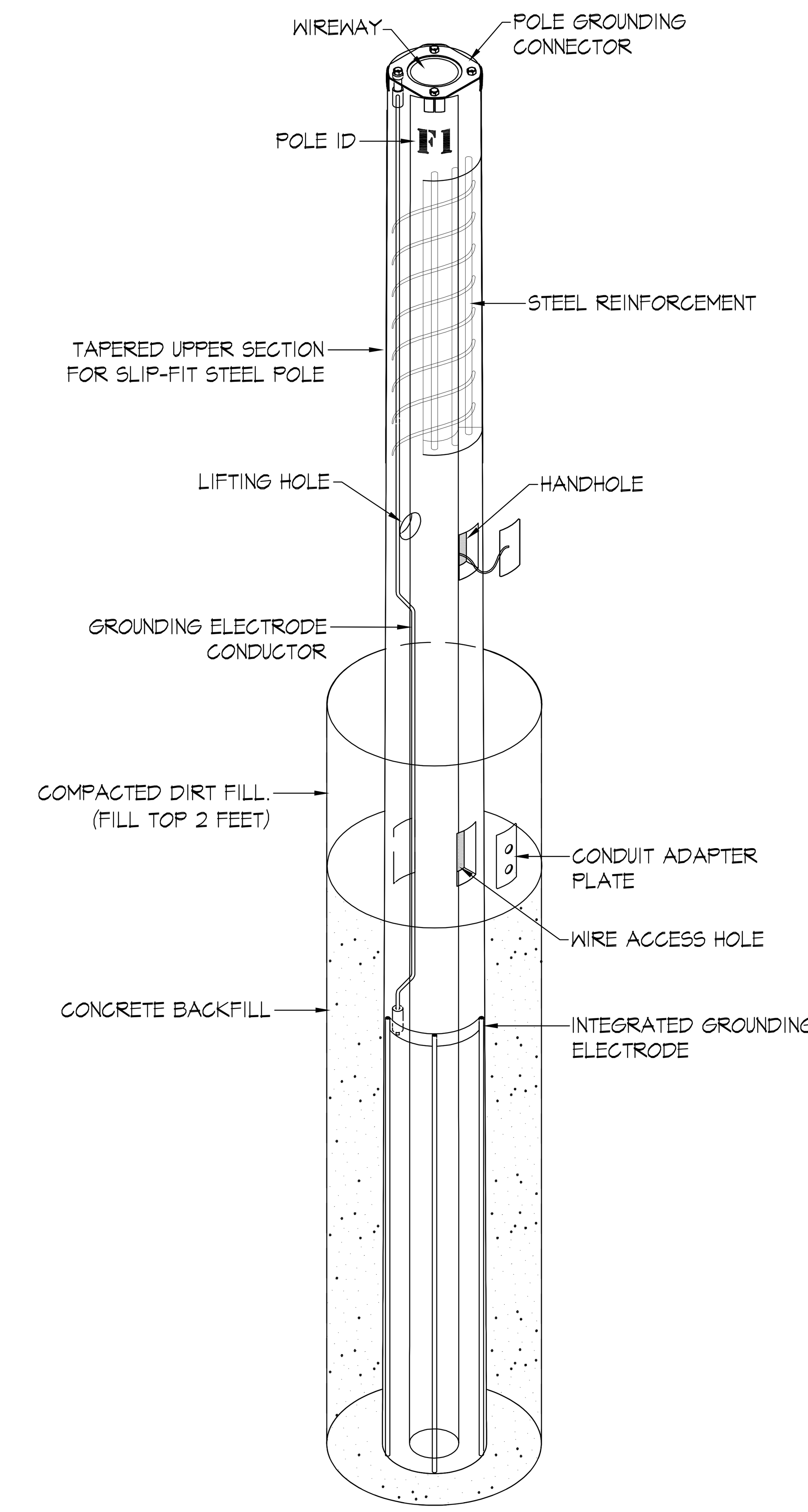
Musco 60FT Light-Structure System™ pole Green Generation™ luminaires

POLE(S): B1 & B2

Musco 70FT Light-Structure System™ pole Green Generation™ luminaires

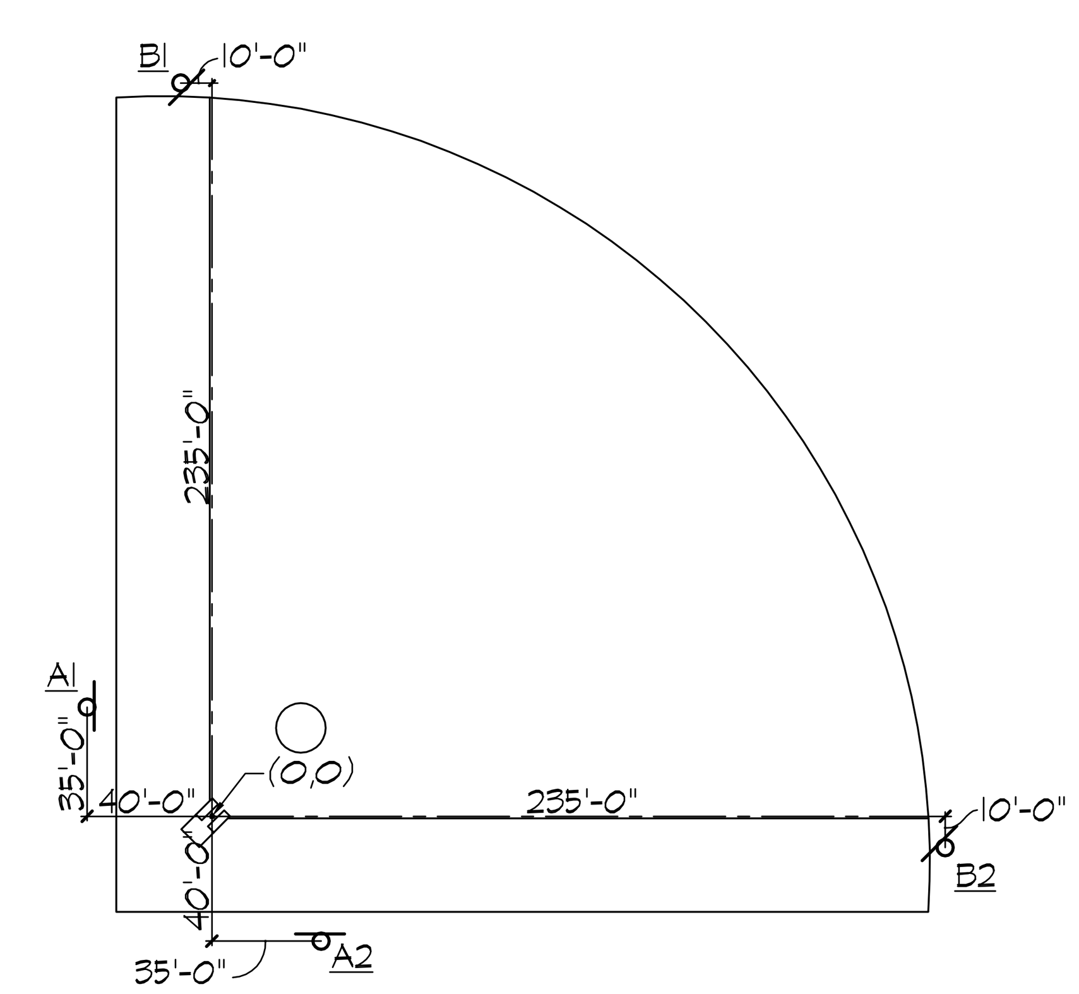
STADIUM LIGHTING POLE DETAILS - MUSCO

NOT TO SCALE



PRECAST CONCRETE BASE POLE DETAIL

NOT TO SCALE



Lighting Pole Key Plan - MUSCO

NOT TO SCALE

Dewberry | PREBLE-RISH

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CONSULTANTS:

FLA FLORIDA ARCHITECTS LICENSE #AA0002730

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ELECTRICAL DETAILS

PROJECT NO.	SHEET
4226	E12