PROJECT LOCATION:
BAY COUNTY, FLORIDA

GULF COAST STATE COLLEGE
PHASE 2
CAMPUS IMPROVEMENTS

5230 US-98 PANAMA CITY, FLORIDA 32401

CONSTRUCTION DOCUMENTS

PART "A" PART "B" PART "C"

CODE REVIEW ANALYSIS

PROJECT SUMMARY

DEVELOPMENT AND CONSTRUCTION OF NEW ROADS AND PARKING AREAS, THE INSTALLATION OF NEW LIGHTING AND SIGNAGE.

CLASSIFICATION OF WORK

NEW CONSTRUCTION

INDEX OF DRAWINGS:

ARCHITECTURAL

A0.0	COVER SHEET
A0.1	SIGNAGE

CIVIL

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PROJECT DIRECTORY:

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CIVIL

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203 ABERDEEN PARKWAY
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PHONE: 850.522.0644

ELECTRICAL

BAGWELL ENGINEERING, INC.
216 EAST GOVERNMENT STREET
PENSACOLA, FL 32502
PHONE: 850.462.8040

LANDSCAPE ARCHITECT

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CLIENT: CONSULTANTS:

FLORIDA ARCHITECTS
LICENSE #AA0002730

GULF COAST STATE COLLEGE
SINCE 1957

CLIENT:

GULF COAST STATE COLLEGE

5230 US-98
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PROJECT:
GCSC
PHASE 2
CAMPUS IMPROVEMENTS
ITB#7-2016/2017

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

NOT APPROVED UNLESS STAMPED WITH PROFESSIONAL ENGINEERS SEAL

RELEASE:

CONSTRUCTION DOCUMENTS

SCALE:	DATE: 05/03/17
DRAWN: R.DAVIS	CHECKED: J.SORCI

NO.	REVISION	DATE:

SHEET TITLE:

COVER SHEET

PROJECT NO.	SHEET
4166-14	A0.0

DS-1

8' X 9' SINGLE SIDED MONUMENT DIRECTIONAL SIGN - NON-ILLUMINATED

DS-2

8' X 9' SINGLE SIDED MONUMENT DIRECTIONAL SIGN - NON-ILLUMINATED

DS-3

8' X 9' SINGLE SIDED MONUMENT DIRECTIONAL SIGN - NON-ILLUMINATED

DS-4a & DS-4b

8' X 8' DOUBLE SIDED MONUMENT DIRECTIONAL SIGN - NON-ILLUMINATED

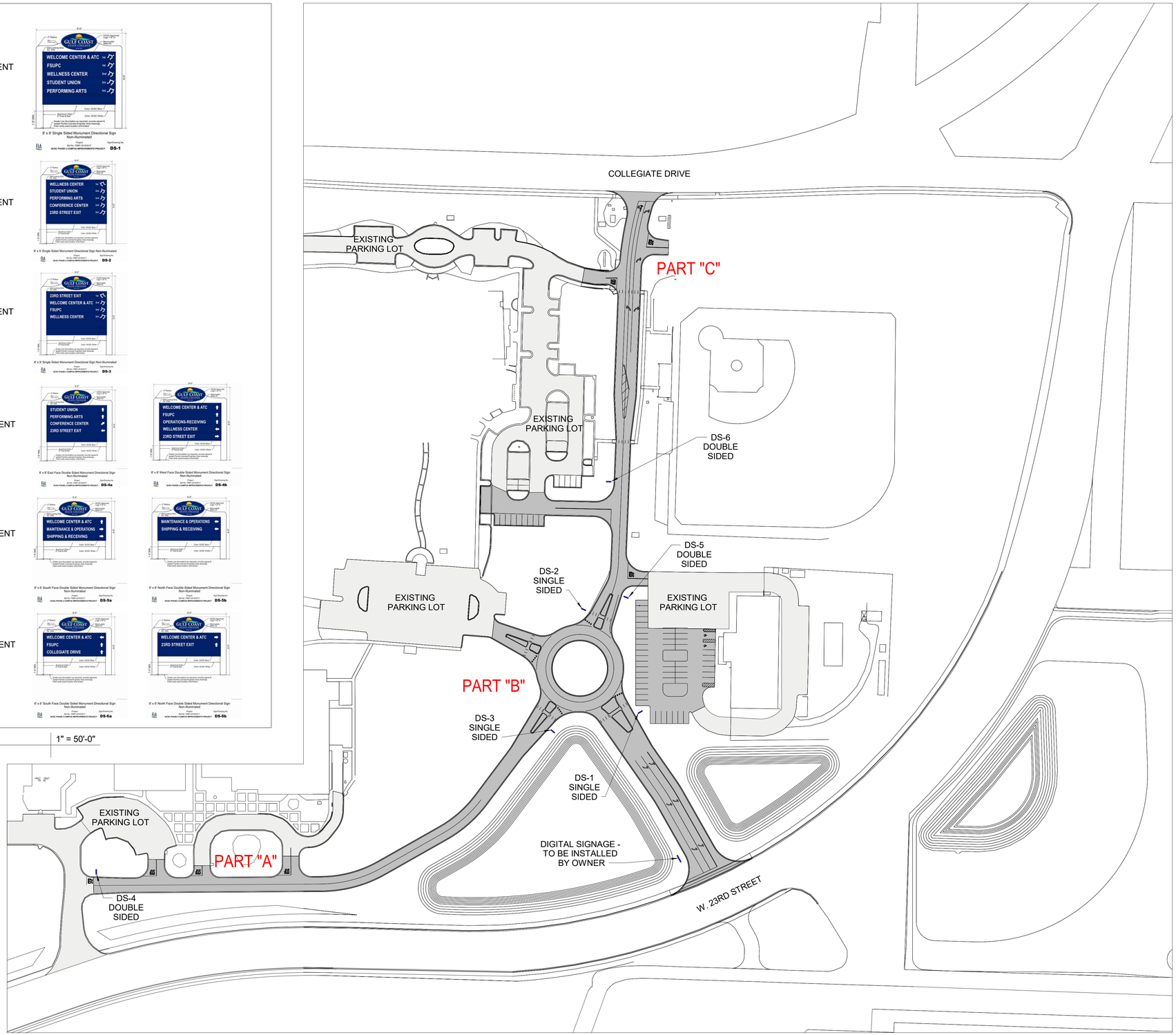
DS-5a & DS-5b

8' X 6' DOUBLE SIDED MONUMENT DIRECTIONAL SIGN - NON-ILLUMINATED

DS-6a & DS-6b

8' X 6' DOUBLE SIDED MONUMENT DIRECTIONAL SIGN - NON-ILLUMINATED

SIGNAGE LEGEND | 1" = 50'-0"



Phase 2 | 1" = 80'-0"

Dewberry | PREBLE-RISH
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

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PANAMA CITY,
FLORIDA 32401
850.169.1551
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PROJECT:
GCSC
PHASE 2
CAMPUS IMPROVEMENTS
ITB # 7- 2016/2017

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

RELEASE:

CONSTRUCTION DOCUMENTS

ENTER THE PROJECT NAME HERE

SCALE: As indicated	DATE: 05/03/17
DRAWN: R.DAVIS	CHECKED: J.SORCI

NO.	REVISION	DATE:

SHEET TITLE:

SIGNAGE

PROJECT	SHEET
4166-14	A0.1

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CONSTRUCTION PLANS FOR:

CAMPUS IMPROVEMENTS - PHASE II

PREPARED FOR:

GULF COAST STATE COLLEGE

BID No. ITB#7-2016/2017

100% CONSTRUCTION DOCUMENTS

REV. NO.	REV. DATE	REVISION DESCRIPTION	RELEASED TO	RELEASE DATE

PREPARED BY:

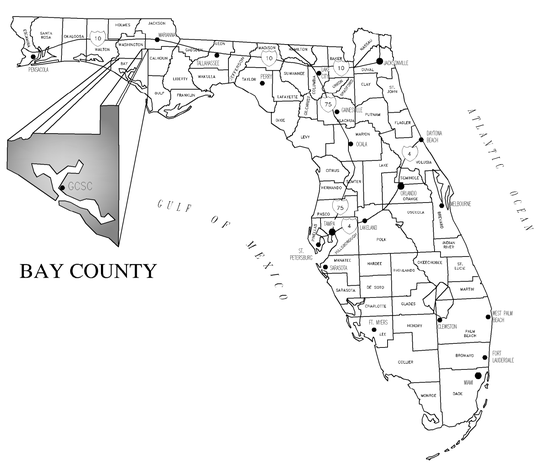
Dewberry | PREBLE-RISH

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

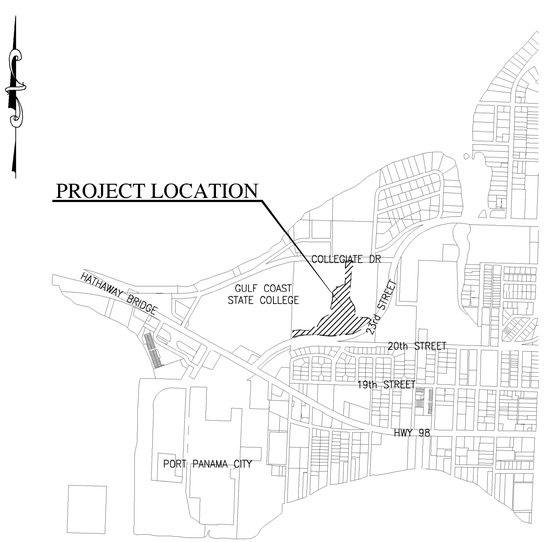
PROJECT NUMBER - 50089951

MAY 2017

VICINITY MAP



LOCATION MAP



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May 4, 2017 (17:54:27 EST)
K:\50089951 GCSC PARKING IMPROVEMENTS PH II_CIVIL\DFDLDER_PRODUCTION\50089951_COVER.DWG

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. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH FDOT 2013 DESIGN STANDARDS AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, UNLESS OTHERWISE STATED OR SHOWN IN THE PLANS.

4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF PANAMA CITY STANDARDS AND SPECIFICATIONS, UNLESS APPROVED BY THE CITY OF PANAMA CITY.

5. 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.

6. 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.

7. 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.

8. 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.

9. UTILITY ADJUSTMENTS ARE TO BE PERFORMED BY THE UTILITY OWNERS UNLESS OTHERWISE NOTED.

10. SWEEPING SHALL OCCUR DAILY OR AFTER SUCH EVENTS AS CAUSE TRACKING ONTO STREET.

11. ALL PROPOSED GROUND ELEVATIONS ARE FINISHED SOD ELEVATIONS. FINISH EARTHWORK GRADING SHALL BE 0.2 FEET BELOW ELEVATIONS SHOWN TO ALLOW FOR SOD THICKNESS.

12. 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.

13. 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.

14. PROPOSED CONSTRUCTION SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA), THE ADA COMPLIANCE HANDBOOK, LATEST EDITION, AND THE FLORIDA ACCESSIBILITY CODE. SIDEWALK CONSTRUCTION AND EXPANSION JOINT SPACING SHALL BE IN ACCORDANCE WITH FDOT DESIGN STANDARD INDEX 310.

15. ALL INLETS SHALL BE PROTECTED AS PER FDEP BEST MANAGEMENT PRACTICES, AND THE FDEP/FDOT EROSION AND SEDIMENT CONTROL HANDBOOK.

16. THE CONTRACTOR SHALL PROTECT ALL GRASSED AREAS FROM DISCARDED CONCRETE AND EXCESS MATERIALS. ALL DISCARDED CONCRETE AND EXCESS MATERIALS SHALL BE REMOVED FROM THE RIGHT-OF-WAY (OR JOB SITE) ON A DAILY BASIS.

17. THE CONTRACTOR SHALL DISPOSE OF ALL DEBRIS UPON COMPLETION OF THE PROJECT.

18. THE EROSION CONTROL PLAN SHALL BE IN ACCORDANCE WITH THE FDOT/FDEP EROSION & SEDIMENT CONTROL HANDBOOK.

19. ALL FILL MATERIAL SHALL BE SELECT FILL AS DEFINED BY FDOT DESIGN STANDARD INDEX 505.

20. 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.

21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING NPDES PERMIT.

22. 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.

23. ALL PROPOSED INLETS SHALL HAVE 6" SUMP BOTTOMS ,OPEN BOTTOMS SHALL NOT BE ALLOWED IN AREAS WHERE HIGH GROUNDWATER EXISTS.

24. ALL DEMOLISHED MATERIALS SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A LEGAL MANNER.

25. CONTRACTOR SHALL PROVIDE (5) SIGNED AND SEALED AS-BUILT SURVEYS PREPARED BY A REGISTERED FLORIDA SURVEYOR. A DIGITAL (AUTOCAD) FILE SHALL ALSO BE PROVIDED.

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 12 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 2-1/2' WIDE 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. CONTRACTOR SHALL COMPLETE RESTORATION WITHIN 2 WEEKS OF SUCCESSFUL PIPE PRESSURE TESTING AT ANY GIVEN LOCATION. TEST SHALL BE PERFORMED VALVE TO VALVE WITHIN ONE WEEK OF COMPLETING THAT SECTION. PRESSURE TESTING SHALL TAKE PLACE EVERY 2 WEEKS DURING CONSTRUCTION FOR ANY PIPE INSTALLED IN THAT PERIOD.

UTILITY CONTACTS:

OWNER	CONTACT	PHONE
BAY COUNTY TRAFFIC	BOB EDMUNDS	850-248-8760
CITY OF PANAMA CITY	CHRIS LIGHTFOOT	850-872-3191
KNOLOGY HOLDINGS	STEVE THOMAS	850-215-2138
COMCAST CABLE	JEFFERY SMITH	850-770-8056
SOUTHERN LIGHT	ANDRO BRAMBLETT	251-662-1170
GULF POWER	KENNY DOUGLAS	850-505-5567
AT&T	NANCY SPENCE	770-918-5424
AT&T DISTRIBUTION	DANNEY WATSON	334-850-7761
TECO GAS	ROLAND MOORE	850-914-6129

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 2:1. 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.

PAVING, GRADING, 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 CONSTRUCTION.

2. ALL WASTE MATERIAL SHALL BE DISPOSED OF OFFSITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.

3. PROPOSED SPOT ELEVATIONS REPRESENT PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.

4. CONTRACTOR TO PROVIDE 1/2" TO 1" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND OTHER MATERIALS (BUILDINGS, OTHER POURED CONCRETE, ETC.) EXCEPT ASPHALT.

5. CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT ABUTS.

6. TESTING SHALL BE IN GENERAL CONFORMANCE WITH THE FDOT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. SELECTION AND CONTRACTING WITH THE TESTING FIRMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND SCHEDULE ALL TESTS, AND PROVIDE TO THE ENGINEER OF RECORD.

7. ALL POTHOLES WITHIN THE LIMITS OF PROJECT SHALL BE FILLED WITH ASPHALT AND COMPACTED PRIOR TO RESURFACING.

8. TOP SOIL SHALL BE PLACED IN AREAS WHERE SOD IS PROPOSED, PRIOR TO INSTALLATION OF SOD.

SIGNING AND MARKING NOTES:

1. FOR SIGN DETAILS, USE THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PUBLISHED BY THE US DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, 2009.

2. ALL SIGNAGE AND WHEEL STOPS SHALL BE REMOVED AND STOCKPILED ON SITE. CONTRACTOR SHALL COORDINATE STOCKPILE LOCATION WITH PROJECT ADMINISTRATOR.

3. THE SIGN LOCATIONS ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE PROJECT ADMINISTRATOR.

4. SIGNING AND PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH CURRENT MUTCD, AMERICANS WITH DISABILITIES ACT, FDOT DESIGN STANDARDS (CURRENT EDITION), AND THE PLANS.

5. THE PAVEMENT MARKINGS AT ALL EXISTING/PROPOSED INTERFACE LOCATIONS SHALL MATCH IN TERMS OF ALIGNMENT AND COLOR.

6. ALL FINAL PROPOSED STRIPING AND MESSAGES SHALL BE THERMOPLASTIC. TEMPORARY STRIPING SHALL BE PAINT.

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M.W.
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Revisions:
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GULF COAST STATE COLLEGE
CAMPUS IMPROVEMENTS
PHASE II

GENERAL NOTES

100% CONSTRUCTION DOCUMENTS

Sheet Number
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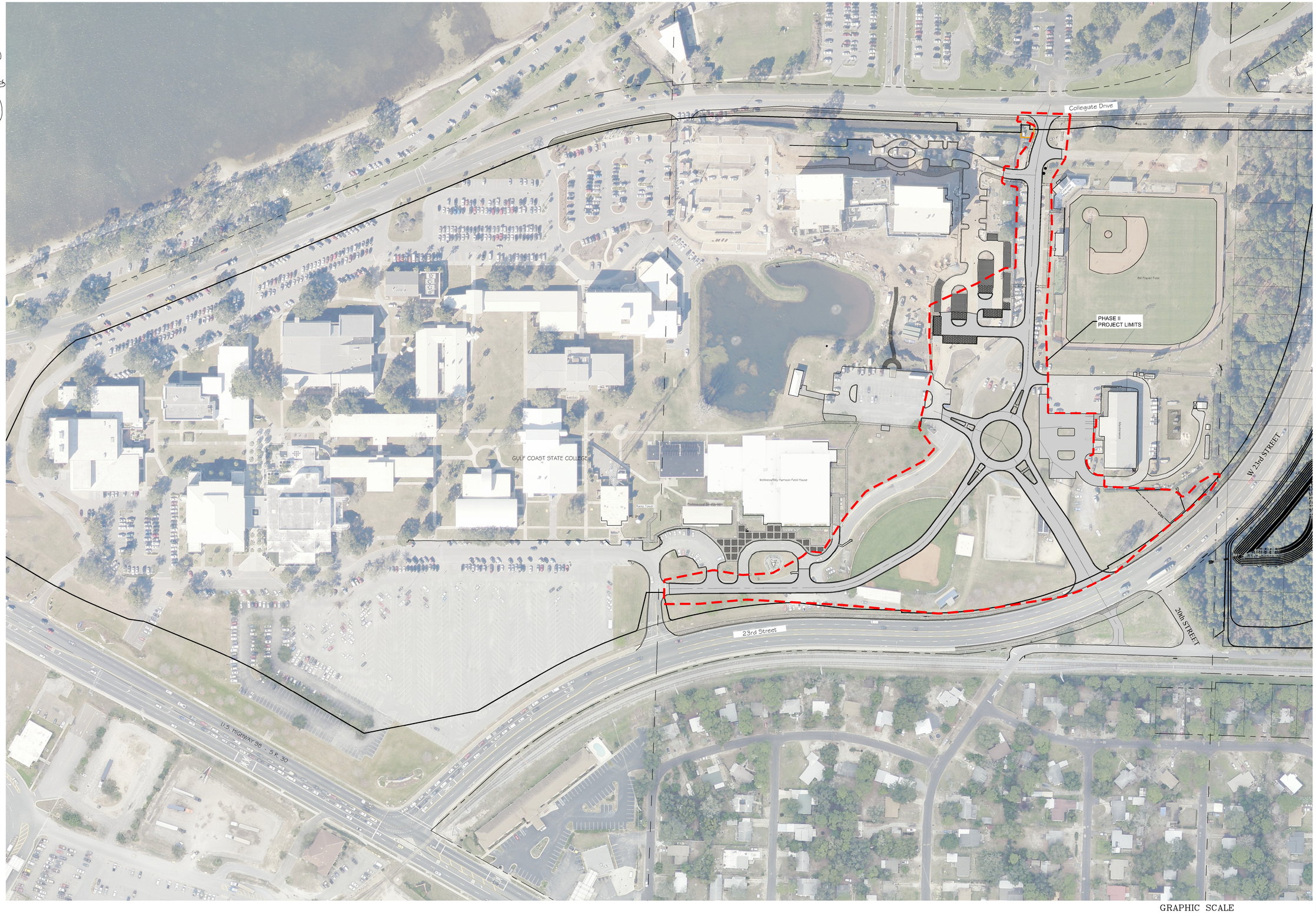

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GULF COAST STATE COLLEGE CAMPUS IMPROVEMENTS PHASE II

OVERALL SITE PLAN

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KEY MAP
N.T.S.

0' 30' 60' 120
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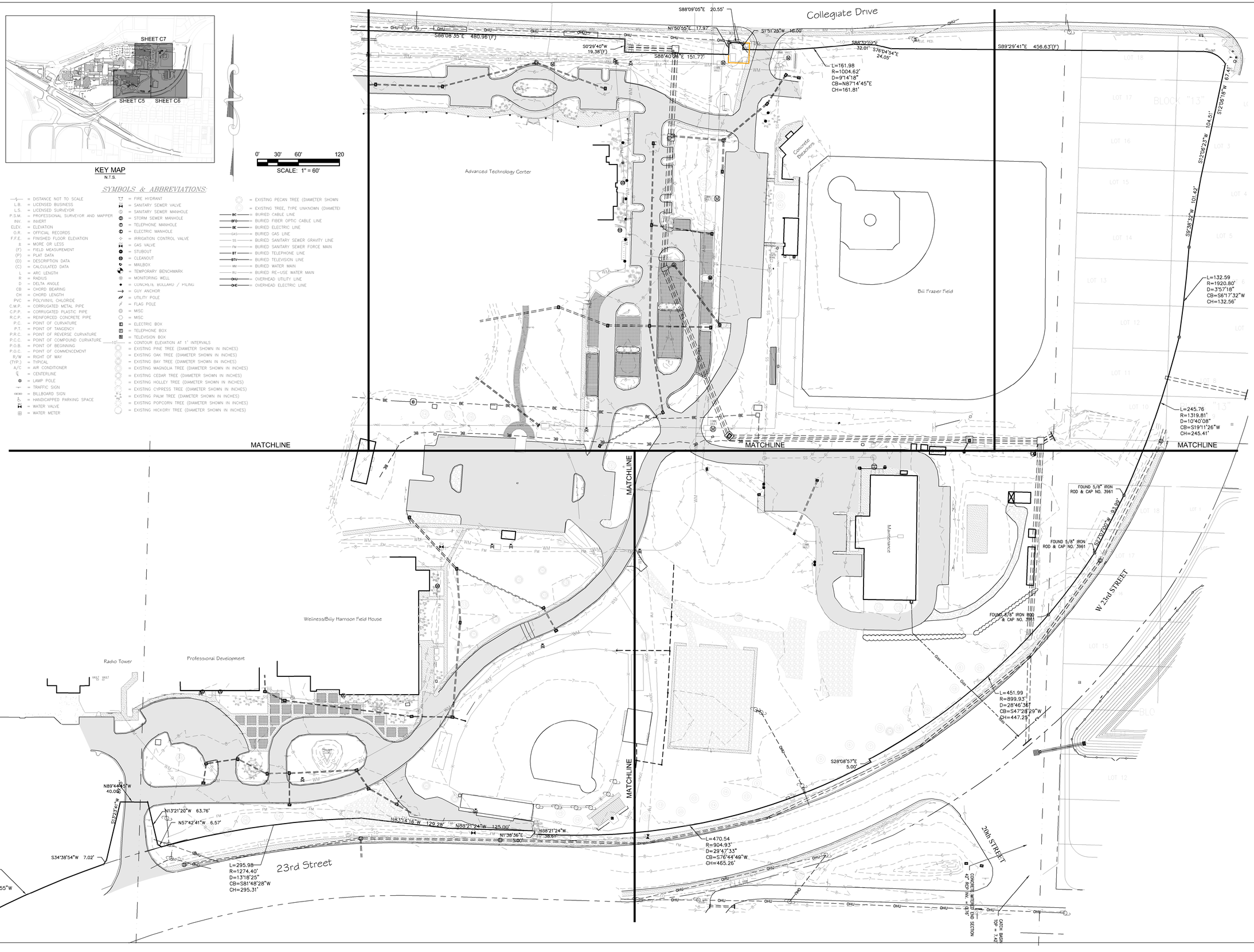

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GULF COAST STATE COLLEGE
CAMPUS IMPROVEMENTS
PHASE II

OVERALL EXISTING CONDITIONS MAP

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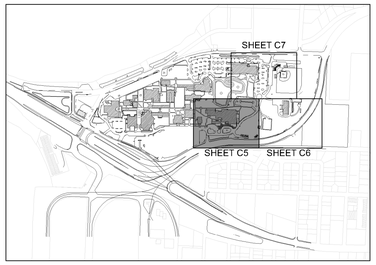

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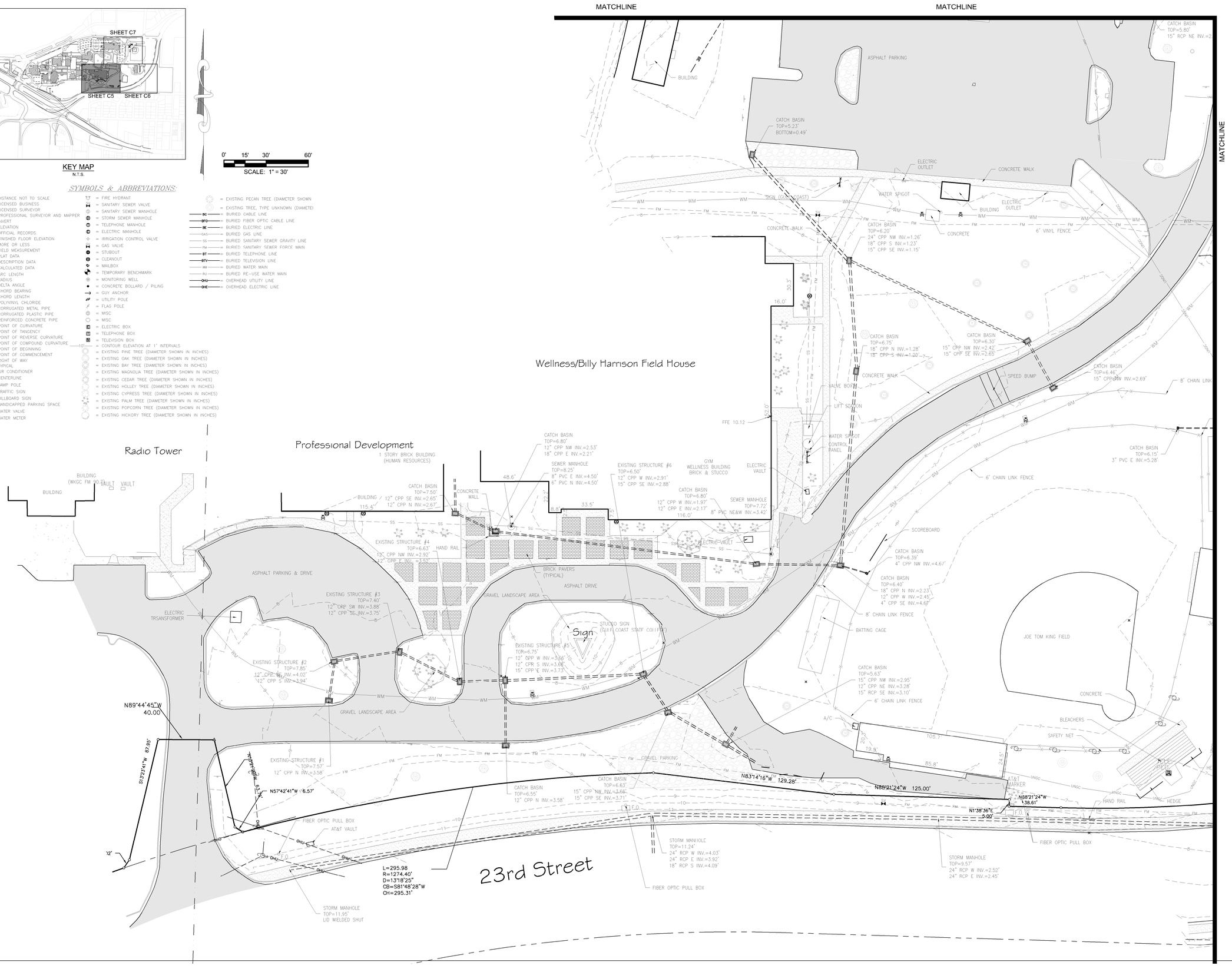

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GULF COAST STATE COLLEGE CAMPUS IMPROVEMENTS PHASE II

EXISTING CONDITIONS MAP A

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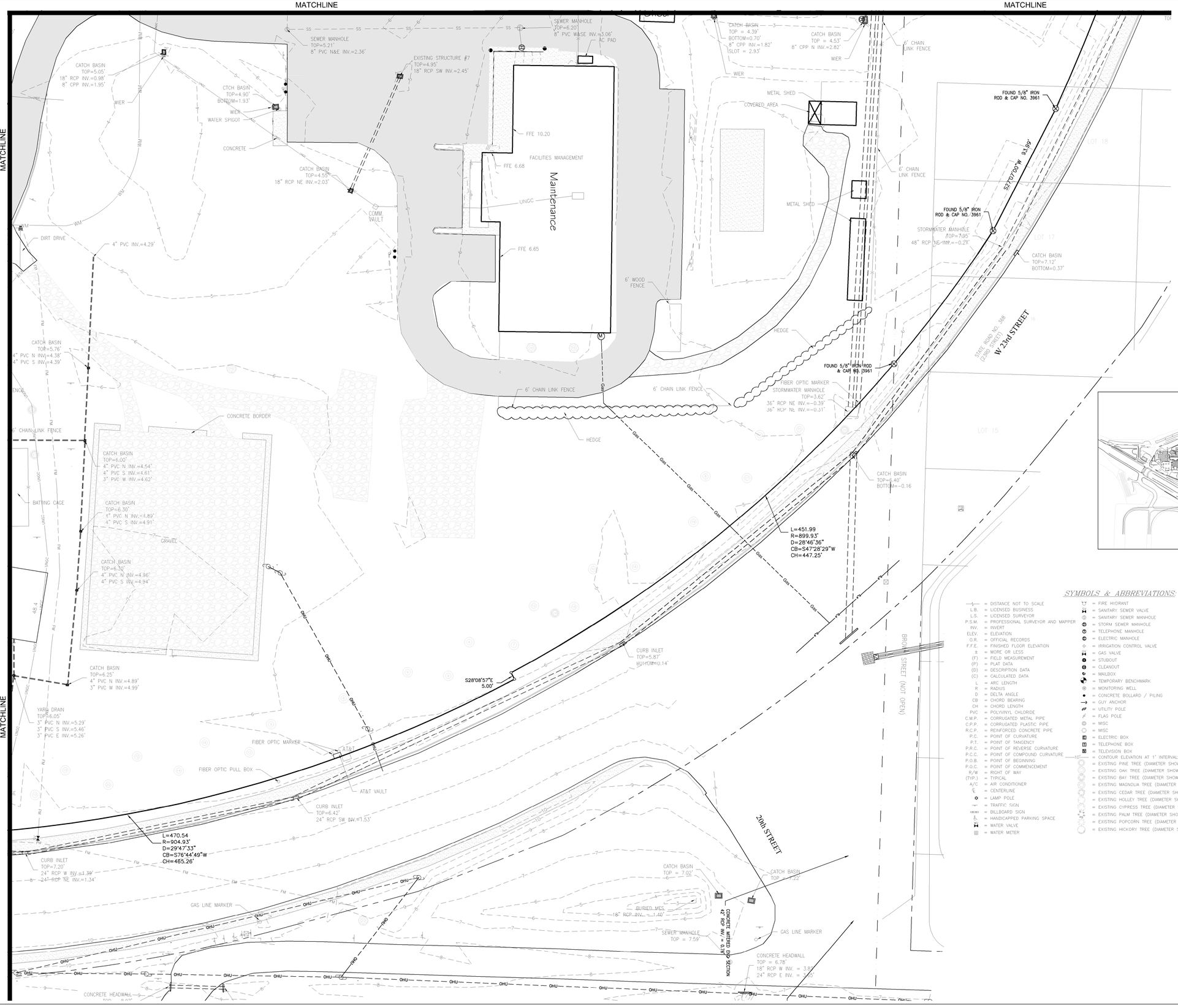

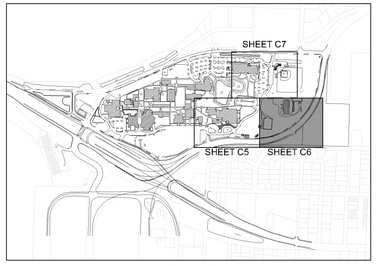

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GULF COAST STATE COLLEGE CAMPUS IMPROVEMENTS PHASE II

EXISTING CONDITIONS MAP B

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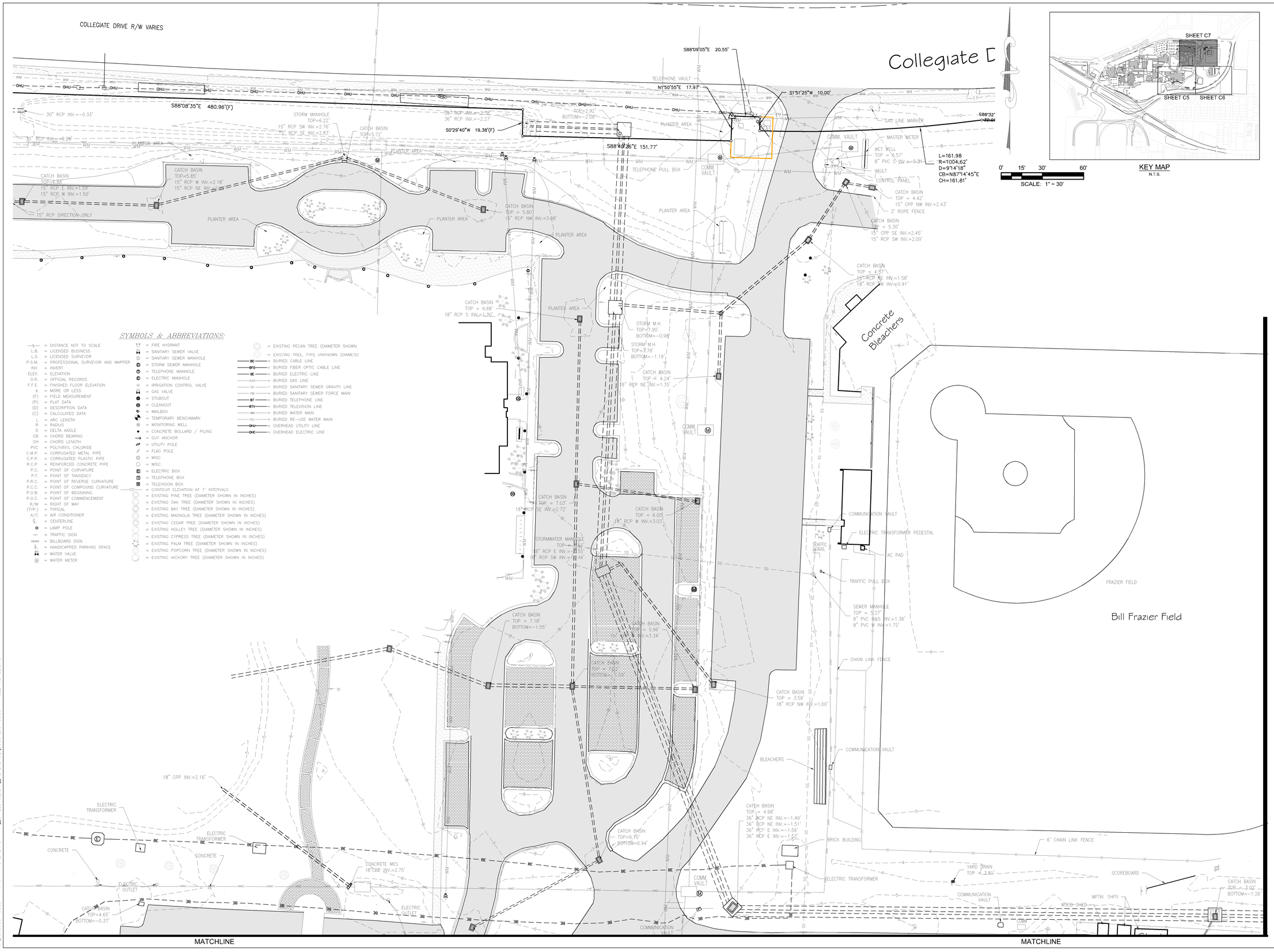

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- F.F.E. = FINISHED FLOOR ELEVATION
- ± = MORE OR LESS
- (F) = FIELD MEASUREMENT
- (P) = PLAT DATA
- (D) = DESCRIPTION DATA
- (C) = CALCULATED DATA
- L = ARC LENGTH
- R = RADIUS
- D = DELTA ANGLE
- CB = CHORD BEARING
- CH = CHORD LENGTH
- PVC = POLYVINYL CHLORIDE
- C.M.P. = CORRUGATED METAL PIPE
- C.P.P. = CORRUGATED PLASTIC PIPE
- R.C.P. = REINFORCED CONCRETE PIPE
- P.C. = POINT OF CURVATURE
- P.T. = POINT OF TANGENCY
- P.R.C. = POINT OF REVERSE CURVATURE
- P.C.C. = POINT OF COMPOUND CURVATURE
- P.O.B. = POINT OF BEGINNING
- P.O.C. = POINT OF COMMENCEMENT
- R/W = RIGHT OF WAY
- (TYP.) = TYPICAL
- A/C = AIR CONDITIONER
- ℄ = CENTERLINE
- = LAMP POLE
- = TRAFFIC SIGN
- = BILLBOARD SIGN
- = HANDICAPPED PARKING SPACE
- = WATER VALVE
- = WATER METER
- = FIRE HYDRANT
- = SANITARY SEWER VALVE
- = SANITARY SEWER MANHOLE
- = STORM SEWER MANHOLE
- = TELEPHONE MANHOLE
- = ELECTRIC MANHOLE
- = IRRIGATION CONTROL VALVE
- = GAS VALVE
- = STUBOUT
- = CLEANOUT
- = MAILBOX
- = TEMPORARY BENCHMARK
- = MONITORING WELL
- = CONCRETE BOLLARD / PILING
- = GUY ANCHOR
- = UTILITY POLE
- = FLAG POLE
- = MISC
- = MISC
- = ELECTRIC BOX
- = TELEPHONE BOX
- = TELEVISION BOX
- = CONTOUR ELEVATION AT 1' INTERVALS
- = EXISTING PINE TREE (DIAMETER SHOWN IN INCHES)
- = EXISTING OAK TREE (DIAMETER SHOWN IN INCHES)
- = EXISTING BAY TREE (DIAMETER SHOWN IN INCHES)
- = EXISTING MAGNOLIA TREE (DIAMETER SHOWN IN INCHES)
- = EXISTING CEDAR TREE (DIAMETER SHOWN IN INCHES)
- = EXISTING HOLLEY TREE (DIAMETER SHOWN IN INCHES)
- = EXISTING CYPRESS TREE (DIAMETER SHOWN IN INCHES)
- = EXISTING PALM TREE (DIAMETER SHOWN IN INCHES)
- = EXISTING POPCORN TREE (DIAMETER SHOWN IN INCHES)
- = EXISTING HICKORY TREE (DIAMETER SHOWN IN INCHES)
- = EXISTING PECAN TREE (DIAMETER SHOWN
- = EXISTING TREE, TYPE UNKNOWN (DIAMETE
- BC = BURIED CABLE LINE
- BFO = BURIED FIBER OPTIC CABLE LINE
- BE = BURIED ELECTRIC LINE
- GAS = BURIED GAS LINE
- SS = BURIED SANITARY SEWER GRAVITY LINE
- FM = BURIED SANITARY SEWER FORCE MAIN
- BT = BURIED TELEPHONE LINE
- BTV = BURIED TELEVISION LINE
- WM = BURIED WATER MAIN
- RU = BURIED RE-USE WATER MAIN
- OHU = OVERHEAD UTILITY LINE
- OHE = OVERHEAD ELECTRIC LINE

KEY MAP
N.T.S.

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

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Principal in Charge
Joseph J. Sorci
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M.W.
Checked By:
J.S.
Revisions:

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ITB#7-2016/2017

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GULF COAST STATE COLLEGE
CAMPUS IMPROVEMENTS
PHASE II

EXISTING CONDITIONS MAP C

100% CONSTRUCTION DOCUMENTS

Sheet Number
C7

May 5, 2017 (10:40:56 EST)
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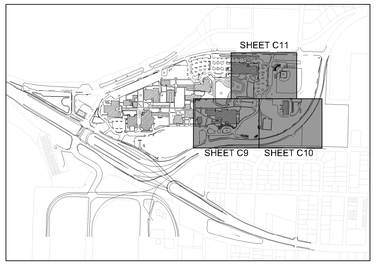


KEY MAP
N.T.S.

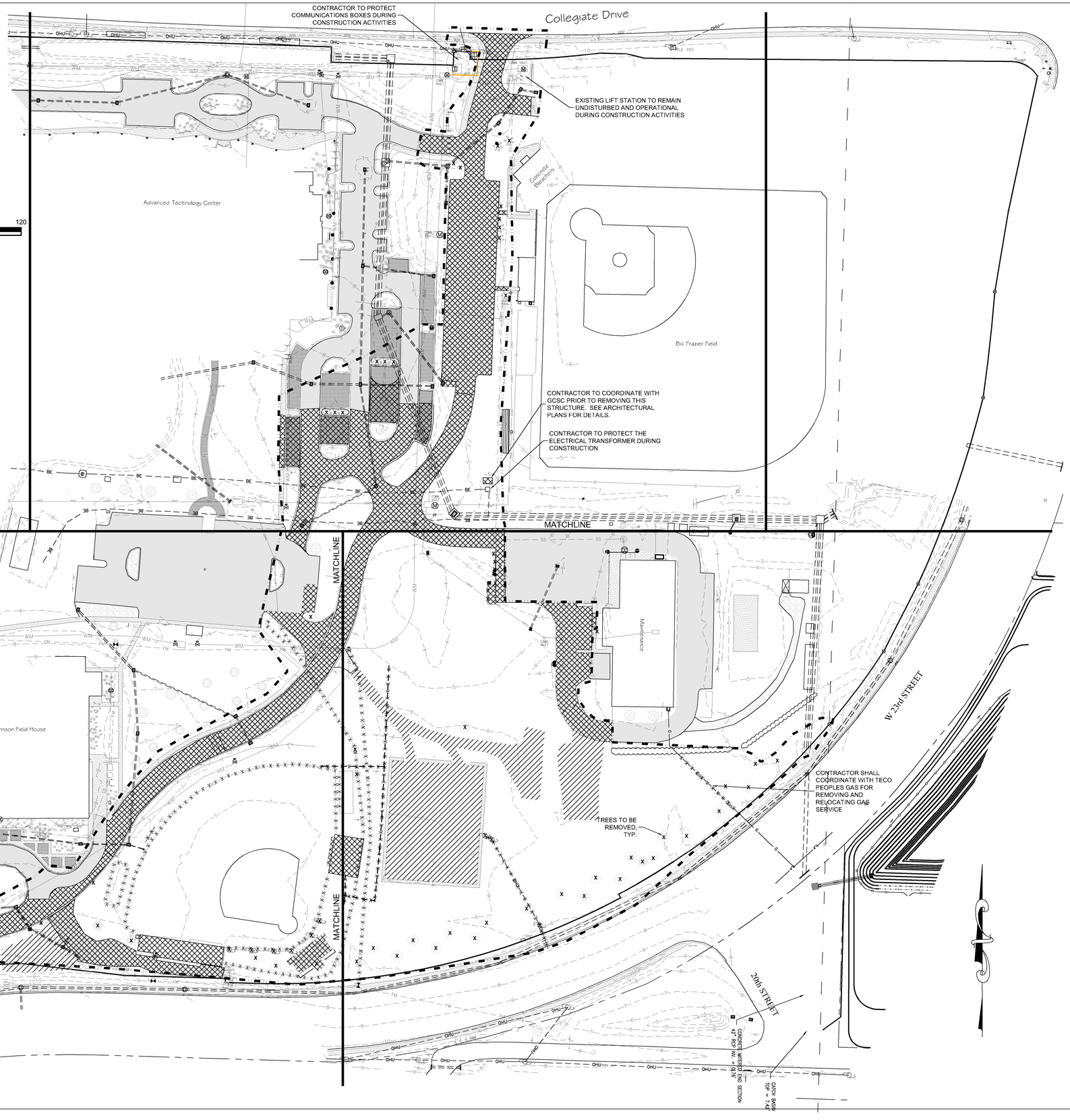
LEGEND

- BUILDING, PAVEMENT, CURB, SIDEWALK, ETC. TO BE REMOVED
- GRAVEL TO BE REMOVED
- X OBJECT TO BE REMOVED
- LIMITS OF CONSTRUCTION

GENERAL NOTES:

1. ALL DISTURBED AREAS SHALL BE SEED AND MULCHED IF LEFT UNATTENDED FOR SEVEN CONTINUOUS DAYS. SEED AND MULCH SHALL BE REQUIRED TO HAVE 80% COVERAGE OF A PERENNIAL TYPE GROUND COVER WITHIN 90 DAYS OF PLANTING. AT LEAST 75% COVERAGE MUST BE PROVIDED BY A SEASONAL COVERAGE WITHIN 30 DAYS OF PLANTING.
2. CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATION OF ALL EXISTING UTILITIES.

0' 30' 60' 120
SCALE: 1" = 60'



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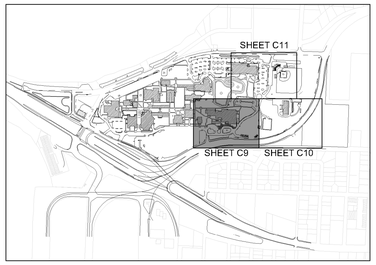
GULF COAST STATE COLLEGE
CAMPUS IMPROVEMENTS
PHASE II

OVERALL DEMOLITION PLAN

100% CONSTRUCTION DOCUMENTS

Sheet Number
C8



KEY MAP
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0' 15' 30' 60'
SCALE: 1" = 30'

LEGEND

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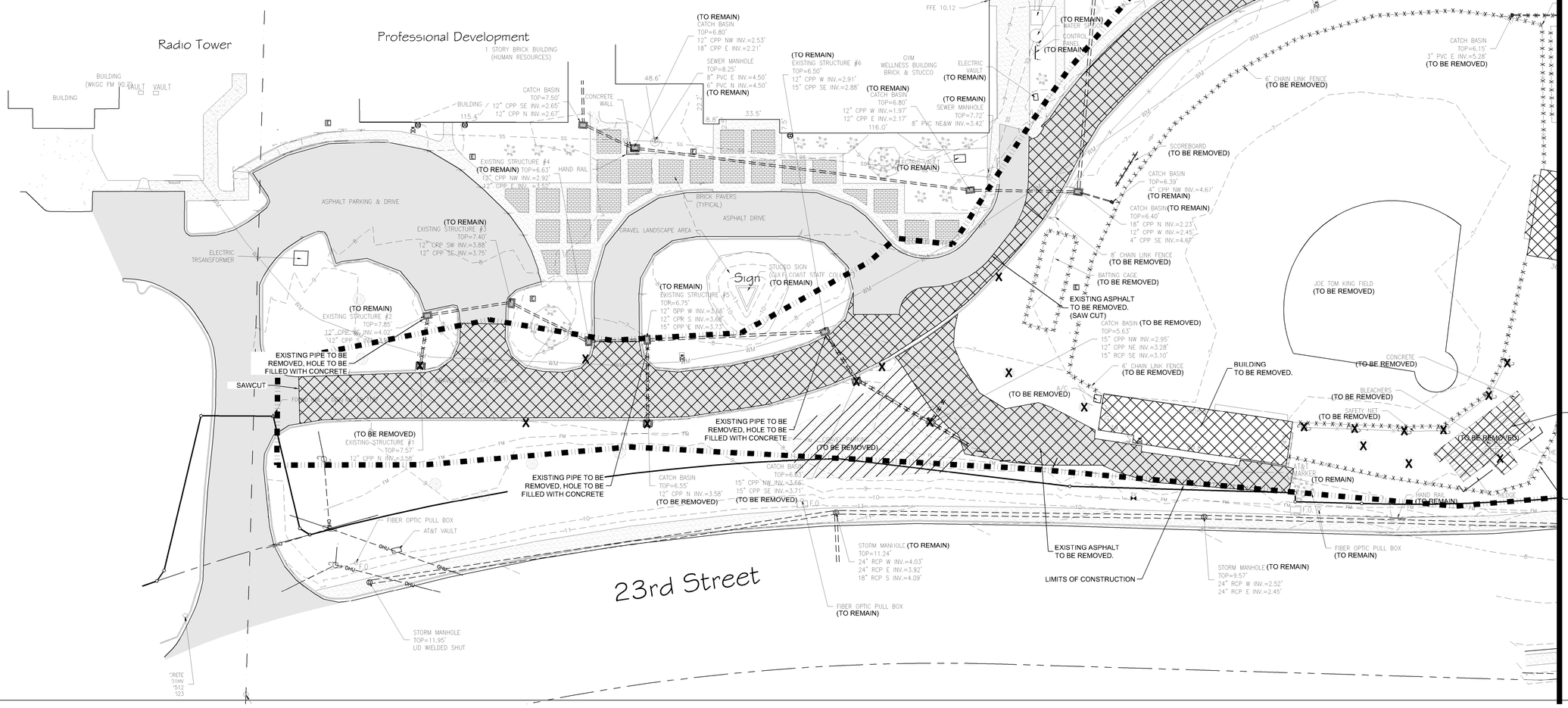

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GULF COAST STATE COLLEGE CAMPUS IMPROVEMENTS PHASE II

DEMOLITION PLAN A

100% CONSTRUCTION DOCUMENTS

Sheet Number
C9

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

(TO BE REMOVED)
CATCH BASIN
TOP=5.05'
18" RCP INV.=0.98'
8" CPP INV.=1.95'

(TO BE REMOVED)

WATER SPIGOT AND BOLLARDS TO BE REMOVED

(TO BE REMOVED)
CATCH BASIN
TOP=4.90'
BOTTOM=1.93'

WALK SPIGOT
(TO BE REMOVED)

CONCRETE
(TO BE REMOVED)

SAWCUT

(TO REMAIN)
SEWER MANHOLE
TOP=5.21'
8" PVC N&E INV.=2.36'

EXISTING STRUCTURE #7
TOP=4.95'
18" RCP SW INV.=2.45'
(TO REMAIN)

(TO REMAIN)
SEWER MANHOLE
TOP=6.20'
8" PVC W&SE INV.=3.06'

A/C PAD
(TO REMAIN)

SAWCUT

FFE 10.20

FACILITIES MANAGEMENT

FFE 6.68

REMOVE SIDEWALK TO INSTALL NEW HANDICAP RAMP

Maintenance

UNGC

CATCH BASIN
TOP=4.55'
18" RCP NE INV.=2.03'
(TO BE REMOVED)

COMM. VAULT
(TO REMAIN)

WATER SPIGOT AND BOLLARDS TO BE REMOVED

SAWCUT

FFE 6.65

DIRT DRIVE
(TO BE REMOVED)

4" PVC INV.=4.39'
(TO BE REMOVED)

FORCE MAIN TO BE REMOVED FOLLOWING NEW FORCE MAIN INSTALL, TYP. SEE UTILITY PLAN SHEET C28

GRAVEL TO BE REMOVED, TYP.

TREE TO BE REMOVED, TYP.

(TO BE REMOVED)
CATCH BASIN
TOP=5.76'
4" PVC N INV.=4.38'
4" PVC S INV.=4.39'

6' WOOD FENCE
(TO REMAIN)

SAWCUT

6' CHAIN LINK FENCE
(TO REMAIN)

6' CHAIN LINK FENCE
(TO REMAIN)

HEDGE

STORM PIPES TO BE REMOVED, TYP.

(TO BE REMOVED)

6' CHAIN LINK FENCE

(TO BE REMOVED)
CATCH BASIN
TOP=5.76'
4" PVC N INV.=4.38'
4" PVC S INV.=4.39'

(TO BE REMOVED)
CATCH BASIN
TOP=5.76'
4" PVC N INV.=4.38'
4" PVC S INV.=4.39'

BATTING CAGE
(TO BE REMOVED)

(TO BE REMOVED)

(TO BE REMOVED)

CONCRETE RIBBON TO BE REMOVED, TYP.

CONTRACTOR SHALL COORDINATE WITH TECO PEOPLES GAS FOR REMOVING AND RELOCATING GAS SERVICE

OVERHEAD ELECTRIC AND POLES TO BE REMOVED, TYP. CONTRACTOR SHALL COORDINATE WITH UTILITY PROVIDER.

(TO BE REMOVED)
CATCH BASIN
TOP=6.25'
4" PVC N INV.=4.89'
3" PVC W INV.=4.99'

YARD DRAIN (TO BE REMOVED)
TOP=6.05'
3" PVC N INV.=5.29'
3" PVC S INV.=5.46'
3" PVC E INV.=5.26'

FIBER OPTIC MARKER
(TO REMAIN)

AT&T

FIBER OPTIC PULL BOX
(TO REMAIN)

AT&T VAULT
(TO REMAIN)

(TO REMAIN)
CURB INLET
TOP=6.42'
24" RCP SW INV.=1.53'

CURB INLET(TO REMAIN)
TOP=7.20'
24" RCP W INV.=1.39'
24" RCP NE INV.=1.34'

GAS LINE MARKER

CONCRETE HEADWALL
TOP = 6.78'
18" RCP W INV. = 3.83'
24" RCP E INV. = 3.65'

GAS LINE MARKER

SEWER MANHOLE
TOP = 7.59'

BURIED MES.
18" RCP INV. = 1.40'

CATCH BASIN
TOP = 7.02'

CATCH BASIN
TOP = 7.22'

20th STREET

(TO REMAIN)
CATCH BASIN
TOP = 4.39'
BOTTOM=0.70'
8" CPP INV.=1.82'
SLOT = 2.93'

(TO REMAIN)
CATCH BASIN
TOP = 4.53'
8" CPP N INV.=2.82'

WIER

6' CHAIN LINK FENCE

(TO REMAIN)
METAL SHED
COVERED AREA

(TO REMAIN)
METAL SHED

6' CHAIN LINK FENCE
(TO REMAIN)

(TO REMAIN)
STORMWATER MANHOLE
TOP=7.95'
48" RCP NE INV.=-0.23'

CATCH BAS
TOP=7.12'
BOTTOM=0.

LOT 17

STATE ROAD NO. 388
(2060 FEET)
W 23rd STREET

(TO REMAIN)
FIBER OPTIC MARKER
STORMWATER MANHOLE
TOP=7.95'
36" RCP NE INV.=-0.39'
36" RCP NE INV.=-0.31'
(TO REMAIN)

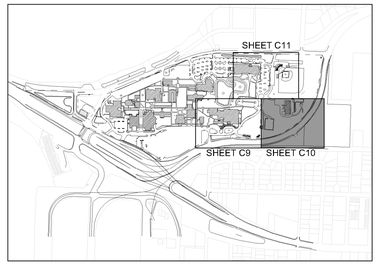
(TO REMAIN)
CATCH BASIN
TOP=6.40'
BOTTOM=-0.16

PROPERTY BOUNDARY

(TO REMAIN)
CONCRETE HEADWALL
TOP = 3.92'
34" X 53" RCP INV. = -0.11'

(TO REMAIN)
CURB INLET
TOP=5.87'
BOTTOM=0.14'

BROWN STREET (NOT OPEN)



KEY MAP
N.T.S.

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

LEGEND

BUILDING, PAVEMENT, CURB, SIDEWALK, ETC. TO BE REMOVED

GRAVEL TO BE REMOVED

X OBJECT TO BE REMOVED

LIMITS OF CONSTRUCTION

GENERAL NOTES:

1. ALL DISTURBED AREAS SHALL BE SEED AND MULCHED IF LEFT UNATTENDED FOR SEVEN CONTINUOUS DAYS. SEED AND MULCH SHALL BE REQUIRED TO HAVE 80% COVERAGE OF A PERENNIAL TYPE GROUND COVER WITHIN 90 DAYS OF PLANTING. AT LEAST 75% COVERAGE MUST BE PROVIDED BY A SEASONAL COVERAGE WITHIN 30 DAYS OF PLANTING.

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GULF COAST STATE COLLEGE
CAMPUS IMPROVEMENTS
PHASE II

DEMOLITION
PLAN B

100% CONSTRUCTION DOCUMENTS

Sheet Number
C10

May 4, 2017 (11:25:04 EST)
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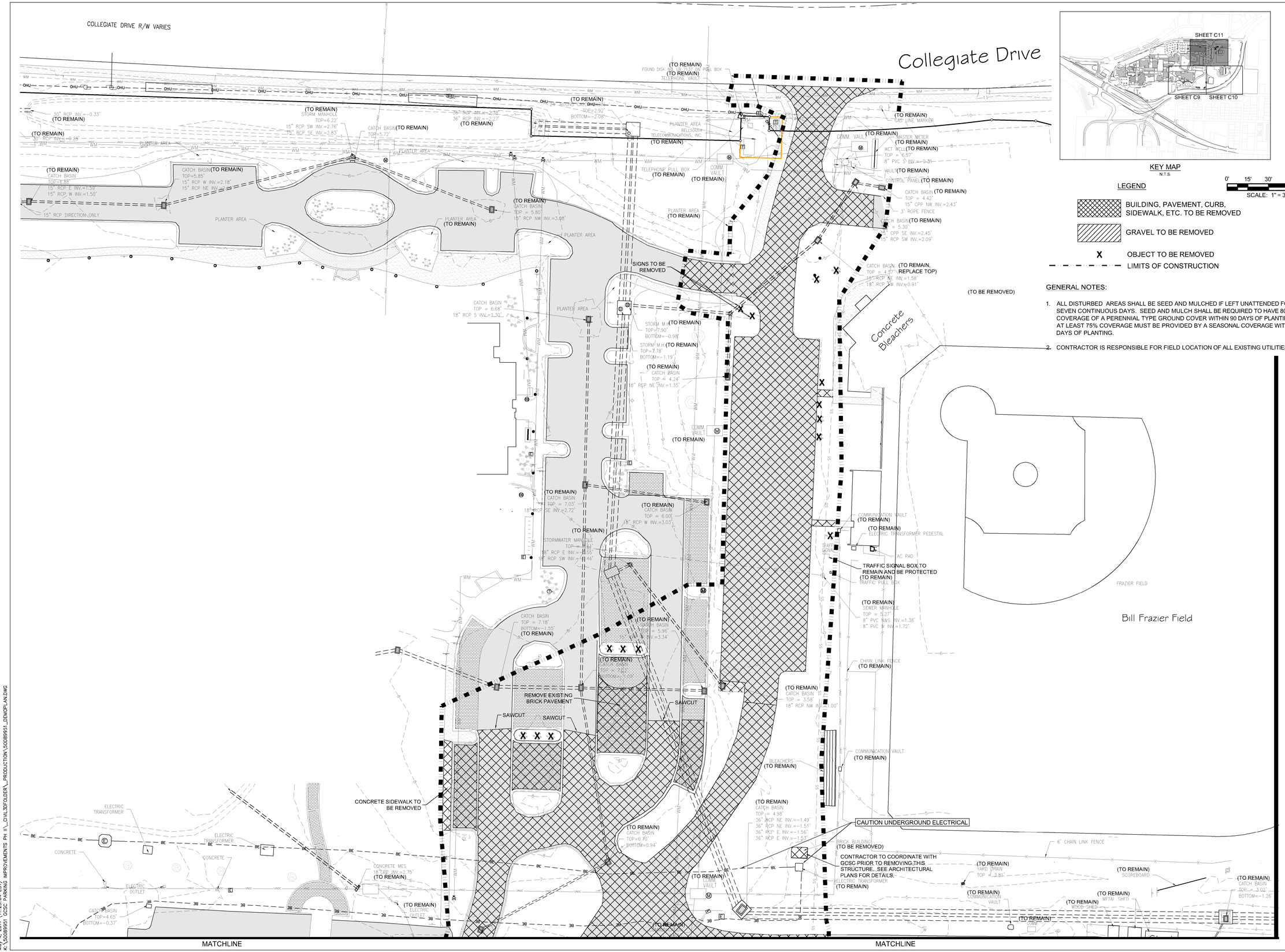

KEY MAP
N.T.S.

LEGEND

- BUILDING, PAVEMENT, CURB, SIDEWALK, ETC. TO BE REMOVED
- GRAVEL TO BE REMOVED
- X OBJECT TO BE REMOVED
- LIMITS OF CONSTRUCTION

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

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GULF COAST STATE COLLEGE CAMPUS IMPROVEMENTS PHASE II

DEMOLITION PLAN C

100% CONSTRUCTION DOCUMENTS

Sheet Number
C11

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LEGEND

INLET PROTECTION

SF — SILT FENCE

LIMITS OF CONSTRUCTION

GENERAL NOTES:

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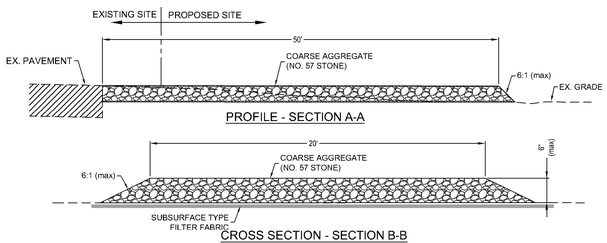
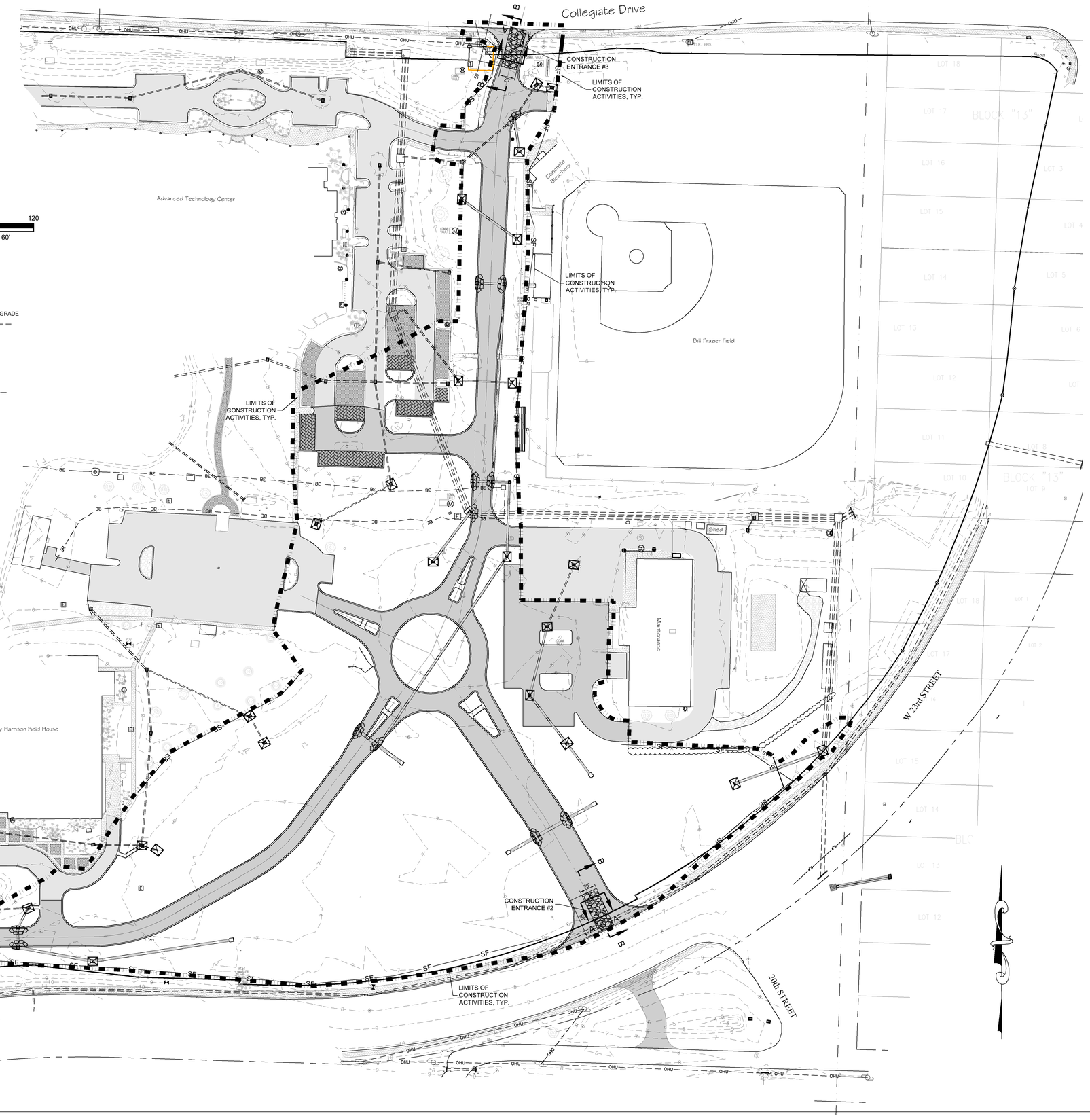
0' 30' 60' 120

SCALE: 1" = 60'



DETAIL TEMPORARY STABILIZED CONSTRUCTION ENTRANCE
SCALE: N.T.S.



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GULF COAST STATE COLLEGE
CAMPUS IMPROVEMENTS
PHASE II

EROSION CONTROL PLAN

100% CONSTRUCTION DOCUMENTS

Sheet Number
C12

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STORMWATER POLLUTION PREVENTION PLAN

1.0 SITE DESCRIPTION

A. NATURE OF CONSTRUCTION ACTIVITY:
THIS PROJECT CONSISTS OF THE DEMOLITION OF EXISTING PARKING AND RECONSTRUCTION OF PAVED PARKING, DRIVEWAYS, STORMWATER CONVEYANCE, SIDEWALKS AND LANDSCAPE ISLANDS.

B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:
THE FOLLOWING SEQUENCE OF MAJOR ACTIVITIES SHALL BE FOLLOWED UNLESS THE CONTRACTOR CAN PROPOSE AN ALTERNATIVE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND SEDIMENT AND IS APPROVED BY THE ENGINEER. THE DETAILED SEQUENCE FOR THE ENTIRE PROJECT CAN VARY SIGNIFICANTLY FROM CONTRACTOR TO CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVIES IN SECTION 104 EROSION CONTROL PLANS.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER DISTURBED AREAS ARE STABILIZED.

C. AREA ESTIMATES

TOTAL SITE AREA:	72 AC.
TOTAL AREA DISTURBED:	10.2 AC.

D. RUNOFF DATA:
RUNOFF COEFFICIENT:

BEFORE:	0.30 (UNPAVED); 0.98 (PAVED)
DURING:	FROM 0.30 TO 0.50 (UNPAVED); 0.30 TO 0.98 (PAVED)
AFTER:	0.30 (UNPAVED); 0.98 (PAVED)

SOIL DATA:

SEE ATTACHED GEOTECHNICAL REPORT

OUTFALL INFORMATION:
ALL DRAINAGE WILL CONNECT TO EXISTING OUTFALLS.

E. SITE MAP:
THE LOCATION MAP ON THE KEY SHEET DESCRIBES THE SITE.
SPECIFICALLY:
DRAINAGE PATTERNS:
EXISTING DRAINAGE FLOWS GENERALLY TO LOCAL DRAINAGE NETWORKS AND ULTIMATELY TO NORTH BAY.

APPROXIMATE SLOPES: 0 TO 5 PERCENT
AREA OF SOIL DISTURBANCE: PROPOSED SITE, DRIVEWAYS, PARKING, AND DEMOLISHED FACILITIES.
AREAS NOT TO BE DISTURBED: OUTSIDE OF EXISTING PROJECT LIMITS.

LOCATIONS OF TEMPORARY CONTROLS:
TEMPORARY STABILIZATION PRACTICES WILL BE DESCRIBED IN THE NARRATIVE.
LOCATIONS OF PERMANENT CONTROLS:
LOCATION OF PERMANENT STABILIZATION IS SHOWN ON THE PLANS.
AREAS TO BE STABILIZED:
TEMPORARY STABILIZATION PRACTICES ARE SHOWN IN THE SAME LOCATION AS THE TEMPORARY CONTROLS MENTIONED ABOVE. PERMANENT STABILIZATION IS SHOWN ON THE PLAN SHEETS.

SURFACE WATERS: NONE

DISCHARGE POINTS TO SURFACE WATERS: NO NEW DISCHARGE POINTS.

F. RECEIVING WATERS:
RUNOFF FROM THE EXISTING DRAINAGE SYSTEM DISCHARGES THROUGH TREATMENT FACILITIES TO NORTH BAY.

2.0 CONTROLS

A. EROSION AND SEDIMENT CONTROLS:

THE FOLLOWING DISCUSSION DEFINES GENERAL GUIDELINES FOR THE SEQUENCES OF CONSTRUCTION AND THE USE OF STABILIZATION AND STRUCTURAL PRACTICES. THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP IN THE SECTION 104 EROSION CONTROL PLAN. ALL ITEMS REPRESENTED IN THE FOLLOWING DISCUSSION ARE TREATED IN DETAIL IN THE "FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (2010). THE CONTRACTOR SHALL GENERATE AN IMPLEMENTATION SCHEDULE FOR EACH PHASE OF CONSTRUCTION OPERATIONS OR ACTIVITIES.

1. STABILIZATION PRACTICES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL BUT IN NO CASE IN MORE THAN 7 DAYS. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

PERMANENT:
SOD IN ACCORDANCE WITH SPECIFICATION SECTION 575. ALL STABILIZATION PRACTICES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES ARE TEMPORARILY OR PERMANENTLY CEASED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP ON THE SECTION 104 EROSION CONTROL PLAN.

TEMPORARY:
SEED AND MULCH AND SOD IN ACCORDANCE WITH SPECIFICATION SECTION 104.

2. STRUCTURAL PRACTICES:

ALL SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO ANY SOIL DISTURBING ACTIVITY UPSTREAM OF THE CONTROL. THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP ON THE SECTION 104 EROSION CONTROL PLAN.

TEMPORARY:
SEDIMENT BARRIERS, TURBIDITY BARRIERS AND INLET PROTECTION

B. STORMWATER MANAGEMENT

STORMWATER WILL BE CONVEYED THROUGH CLOSED CONVEYANCE SYSTEMS AND DITCHES TO LOCAL STORMWATER TREATMENT FACILITIES.

C. OTHER CONTROLS

1. WASTE DISPOSAL:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITES.

DISPOSE OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.

DISPOSE OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFFSITE BUT NOT IN SURFACE WATERS OR WETLANDS.

2. OFFSITE VEHICLE TRACKING:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. UNLESS APPROVED BY THE ENGINEER, THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING.

COVERING LOADED HAUL TRUCKS WITH TARPAULINS.

REMOVING EXCESS DIRT FROM ROADS DAILY.

STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO DESIGN STANDARD 106.

USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.

3. STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER OR SEPTIC TANK

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER AND SEPTIC SYSTEMS.

4. FERTILIZERS AND PESTICIDES:

FERTILIZERS SHALL BE APPLIED ACCORDING TO SPECIFICATION SECTION 570 OR 577 OF THE FDOT STANDARD SPECIFICATIONS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP ON THE SECTION 104 EROSION CONTROL PLAN.

5. TOXIC SUBSTANCES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE AND DISPOSAL OF THESE SUBSTANCES.

3.0 MAINTENANCE:

PROPOSED REPLACEMENT ITEM	MAINTENANCE	INTERVAL
SILT FENCE	IN ACCORDANCE WITH SECTION 104	1 YEAR
INLET PROTECTION	REMOVE MILLED MATERIAL AND DEBRIS FROM BAGS TO KEEP FROM ENTERING TRAFFIC LANE AND CURB INLETS	1 YEAR

THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP ON THE SECTION 104 EROSION CONTROL PLAN

4.0 INSPECTIONS

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER. THE ENGINEER SHALL BE RESPONSIBLE FOR COMPLETING THE WEEKLY INSPECTION REPORT FORM AND SUBMISSION OF THE FORM TO THE FDOT CENTRAL OFFICE ON A MONTHLY BASIS. WHERE SITES HAVE BEEN FINALLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH.

- POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES

- DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED

- STRUCTURAL CONTROLS

- AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION

- LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE

5.0 NON-STORMWATER DISCHARGES

THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP ON THE SECTION 104 EROSION CONTROL PLAN. IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT THE PROJECT ADMINISTRATOR AND ENGINEER OF RECORD IMMEDIATELY.

PHASING OF IMPLEMENTATION

PHASE I - INSTALLATION OF ENVIRONMENTAL CONTROL FEATURES

ENVIRONMENTAL CONTROL FEATURES AS PROVIDED IN PLANS QUANTITIES ARE TO BE INSTALLED THROUGHOUT THE CONSTRUCTION LIMITS, AT ENVIRONMENTALLY SENSITIVE AREAS AS SHOWN ON THE PLANS, OR AT AREAS AS DIRECTED BY THE PROJECT ADMINISTRATOR. THESE FEATURES INCLUDE, BUT ARE NOT LIMITED TO, SILT FENCE, SYNTHETIC BALES, ETC.

PHASE II - SITE WORK OPERATIONS

SITE WORK SHALL BE DONE AS INDICATED ON THE PLANS.

PHASE III - DRAINAGE SYSTEM OR STRUCTURE ENVIRONMENTAL CONTROL FEATURES

ENVIRONMENTAL CONTROL FEATURES AS PROVIDED IN PLANS ARE TO BE INSTALLED AT ALL AREAS OF EXCAVATION OR FILL FOR DRAINAGE SYSTEM OR STRUCTURE CONSTRUCTION PRIOR TO SUCH EXCAVATION OR FILL. ALL STREAMS OR DITCHES ARE TO BE PROTECTED FROM EROSION OR SILTATION BY METHODS DETAILED IN THE STANDARD INDICES. THESE INCLUDE SILT FENCE, SYNTHETIC BALES, ETC.

PHASE IV - MAINTENANCE OF ENVIRONMENTAL CONTROL FEATURES

ALL ENVIRONMENTAL CONTROL FEATURES ARE TO BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT AS NECESSARY FOR THE VARIOUS CONSTRUCTION PHASES. THE CONTRACTOR MUST INSURE THAT ALL OF THESE FEATURES FUNCTION PROPERLY AT ALL TIMES.

GENERAL NOTES

1. THE CONTRACTOR MAY CONSTRUCT THE PROJECT IN SEGMENTS BUT EACH OF THE ABOVE PHASES MUST BE FOLLOWED FOR EACH SEGMENT.

2. ALL EROSION AND MATERIAL DEPOSITS MUST BE CONTAINED WITHIN THE PROJECT LIMITS.

STORMWATER SYSTEM MAINTENANCE NOTES:

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. 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.
3. 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 OFF-SITE BY EROSION OR STORMWATER RUNOFF, THE CONTRACTOR SHALL IMPROVE CONDITIONS TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES AT NO ADDITIONAL COST TO THE OWNER. IN NO CASE SHALL CONSTRUCTION COMMENCE PRIOR TO INSTALLATION OF EROSION CONTROL/SEDIMENTATION BARRIER.
4. CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION-RELATED TRAFFIC IS TO ENTER AND EXIT SITE.
5. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AREA USING SPRINKLING IRRIGATION OR OTHER ACCEPTABLE METHODS.
6. ALL NEW DRAINAGE PIPE SHALL BE AS INDICATED ON PLANS OR APPROVED EQUAL.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MONITORING, NOTICE OF COMMENCEMENT, AND AS-BUILT CERTIFICATION.
8. CONTRACTOR SHALL PREPARE A DEWATERING AND STOCKPILE PLAN AS PART OF THE NPDES PERMIT PROCESS.
9. THE OWNER IS TO MAINTAIN THE STORMWATER SYSTEM PER THE OPERATION AND MAINTENANCE PLAN.

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Date Issued:
5-4-2017
Drawn By:
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Checked By:
J.S.
Revisions:

BID No.
ITB#7-2016/2017

Dowberry PREBLE-RISH

GULF COAST STATE COLLEGE
CAMPUS IMPROVEMENTS
PHASE II

SWPPP

100% CONSTRUCTION DOCUMENTS

Sheet Number
C13

May 4, 2017 (17:21:31 EST)
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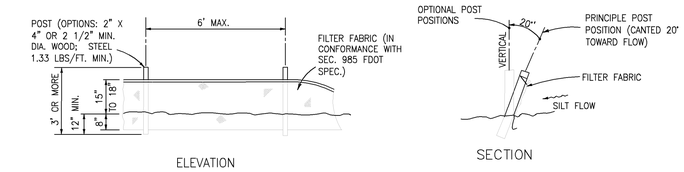
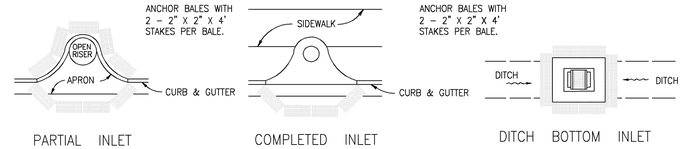
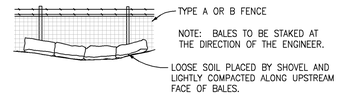


NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).

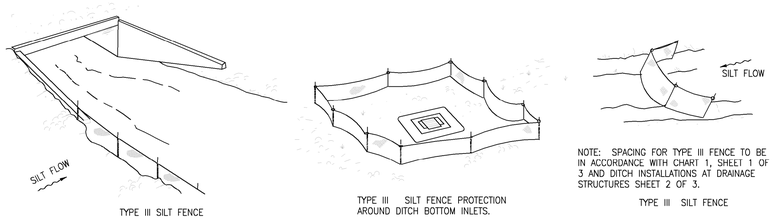
TYPE III SILT FENCE



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

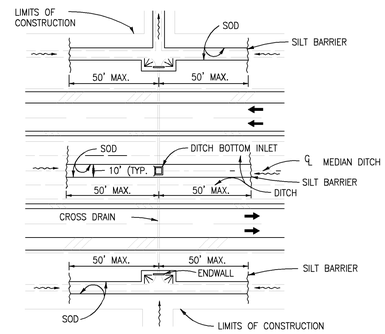


BALES BACKED BY FENCE

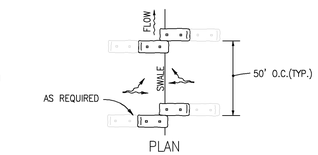


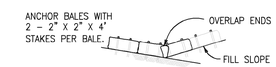
DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

SILT FENCE APPLICATIONS

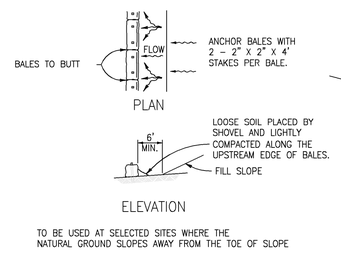


DITCH INSTALLATIONS AT DRAINAGE STRUCTURES



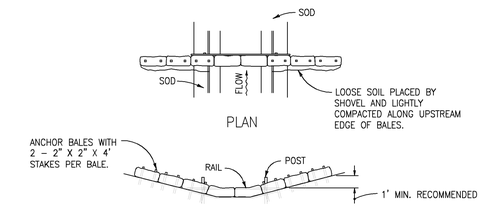


TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE



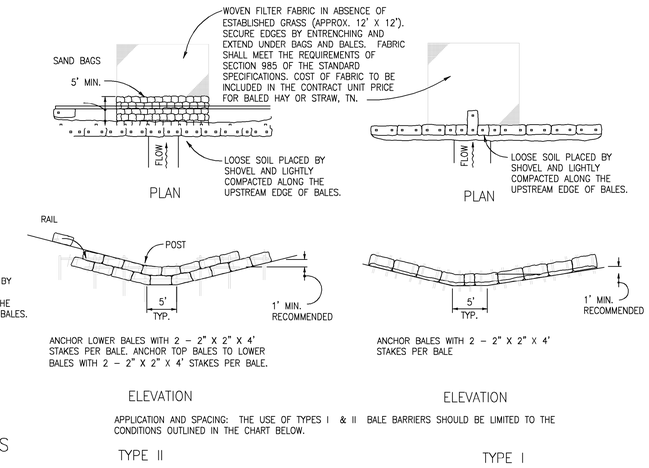
TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

BARRIERS FOR FILL SLOPES



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

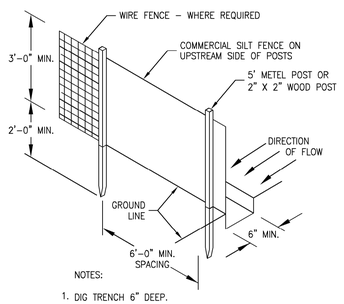
BARRIER FOR PAVED DITCH



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

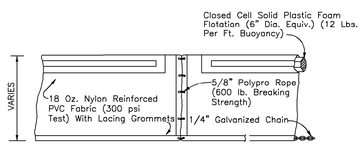


NOTES:

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

DETAIL SILT FENCE

SCALE: N.T.S.



TYPE 1

DETAIL TURBIDITY CURTAIN

SCALE: N.T.S.

DEWATERING NOTES

1. THE FACILITY IS AUTHORIZED TO DISCHARGE PRODUCED GROUND WATER FROM ANY NON-CONTAMINATED SITE ACTIVITY WHICH DISCHARGES BY A POINT SOURCE TO SURFACE WATERS OF THE STATE, AS DEFINED IN CHAPTER 62-620, F.A.C., ONLY IF THE REPORTED VALUES FOR THE PARAMETERS LISTED IN TABLE 1 DO NOT EXCEED ANY OF THE LISTED SCREENING VALUES. BEFORE DISCHARGE OF PRODUCED GROUND WATER CAN OCCUR FROM SUCH SITES, ANALYTICAL TESTS ON SAMPLES OF THE PROPOSED UNTREATED DISCHARGE WATER SHALL BE PERFORMED TO DETERMINE IF CONTAMINATION EXISTS.

2. MINIMUM REPORTING REQUIREMENTS FOR ALL PRODUCED GROUND WATER DISCHARGES. THE EFFLUENT SHALL BE SAMPLED BEFORE THE COMMENCEMENT OF DISCHARGE, AGAIN WITHIN THIRTY (30) DAYS AFTER COMMENCEMENT OF DISCHARGE, AND THEN ONCE EVERY SIX (6) MONTHS FOR THE LIFE OF THE PROJECT. SAMPLES SHALL BE TAKEN PRIOR TO ACTUAL DISCHARGE OR MIXING WITH THE RECEIVING WATERS. THE EFFLUENT SHALL BE SAMPLED FOR THE PARAMETERS LISTED IN TABLE 1.

Table 1

	Screening Values for Discharges into:	
Parameter	Fresh Waters	Coastal Waters
Total Organic Carbon (TOC)	10.0 mg/L	10.0 mg/L
pH, standard units	6.0 – 8.5	6.5 – 8.5
Total Recoverable Mercury	0.012 µg/L	0.025 µg/L
Total Recoverable Cadmium	9.3 µg/L	9.3 µg/L
Total Recoverable Copper	2.9 µg/L	2.9 µg/L
Total Recoverable Lead	0.03 mg/L	5.6 µg/L
Total Recoverable Zinc	86.0 µg/L	86.0 µ/L
Total Recoverable Chromium (Hex.)	11.0 µg/L	50.0 µg/L
Benzene	1.0 µg/L	1.0 µg/L
Naphthalene	100.0 µg/L	100.0 µg/L

3. FOR FRESH WATERS AND COASTAL WATERS, THE PH OF THE EFFLUENT SHALL NOT BE LOWERED TO LESS THAN 6.0 UNITS FOR FRESH WATERS, OF LESS THAN 6.5 UNITS FOR COASTAL WATERS, OR RAISED ABOVE 8.5 UNITS, UNLESS NATURAL BACKGROUND DATA CONFIRMING A NATURAL BACKGROUND PH OUTSIDE OF THIS RANGE IS SUBMITTED. IF NATURAL BACKGROUND OF THE RECEIVING WATER IS DETERMINED TO BE LESS THAN 6.0 UNITS FOR FRESH WATERS, OR LESS THAN 6.5 UNITS IN COASTAL WATERS, THE PH SHALL NOT VARY BELOW NATURAL BACKGROUND OR VARY MORE THAN ONE (1) UNIT ABOVE NATURAL BACKGROUND FOR FRESH AND COASTAL WATERS. IF NATURAL BACKGROUND OF THE RECEIVING WATER IS DETERMINED TO BE HIGHER THAN 8.5 UNITS, THE PH SHALL NOT VARY ABOVE NATURAL BACKGROUND OR VARY MORE THAN ONE (1) UNIT BELOW NATURAL BACKGROUND OF FRESH AND COASTAL WATERS. THE CONTRACTOR SHALL INCLUDE THE NATURAL BACKGROUND PH OF THE RECEIVING WATERS WITH THE RESULTS OF THE ANALYSES LISTED IN NOTE 2. FOR PURPOSES OF THIS SECTION ONLY, FRESH WATERS ARE THOSE HAVING A CHLORIDE CONCENTRATION OF LESS THAN 1500 MG/L, AND COASTAL WATERS ARE THOSE HAVING A CHLORIDE CONCENTRATION EQUAL TO OR GREATER THAN 1500 MG/L.

4. IN ACCORDANCE WITH RULE 62-302.500 (1) (A-C), F.A.C., THE DISCHARGE SHALL AT ALL TIMES BE FREE FROM FLOATING SOLIDS, VISIBLE FOAM, TURBIDITY, OR VISIBLE OIL IN SUCH AMOUNTS AS TO FORM NUISANCES ON SURFACE WATERS.

5. ALL OF THE GENERAL CONDITIONS LISTED IN RULE 62-621.250, F.A.C., ARE APPLICABLE.

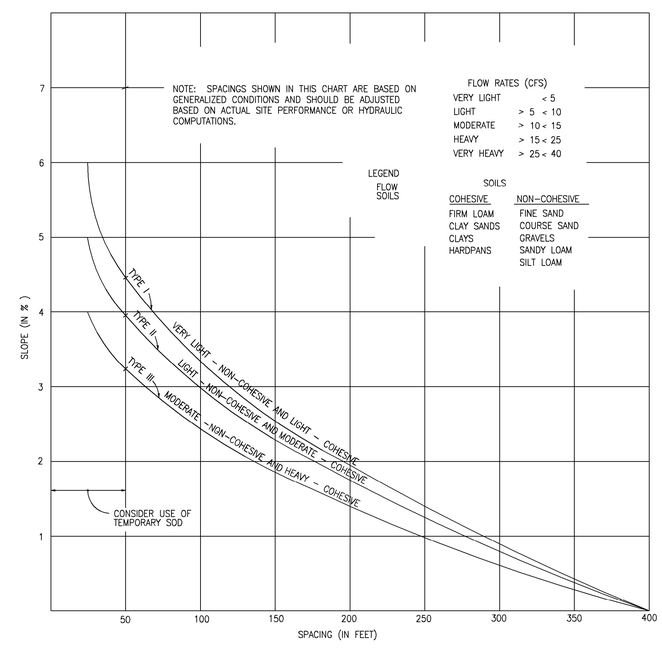


CHART I

RECOMMENDED SPACING FOR TYPE I AND TYPE II HAY BALE BARRIERS, AND TYPE III SILT FENCES

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Joseph J. Sorci
Project Number:
4166-14
Date Issued:
5-4-2017
Drawn By:
M.W.
Checked By:
J.S.
Revisions:

BID No.
ITB#7-2016/2017

Dowberry PREBLE-RISH

GULF COAST STATE COLLEGE
CAMPUS IMPROVEMENTS
PHASE II

SWPPP DETAILS

100% CONSTRUCTION DOCUMENTS

Sheet Number
C14

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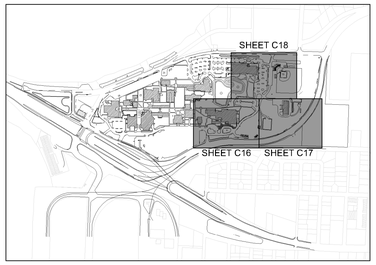
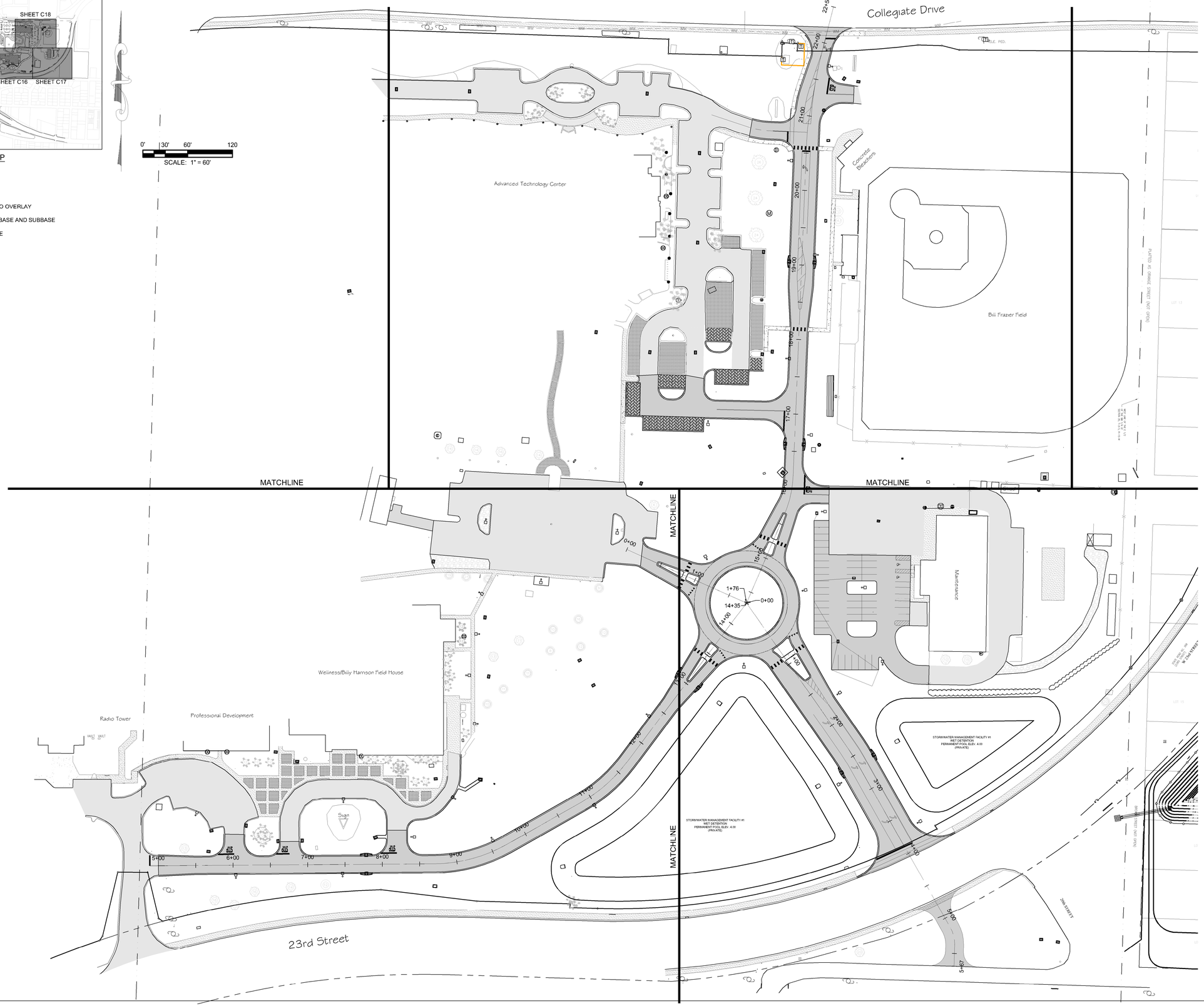


KEY MAP
N.T.S.

LEGEND:

- EXISTING ASPHALT - NO OVERLAY
- PROPOSED ASPHALT, BASE AND SUBBASE
- PROPOSED LIGHT POLE

0' 30' 60' 120
SCALE: 1" = 60'



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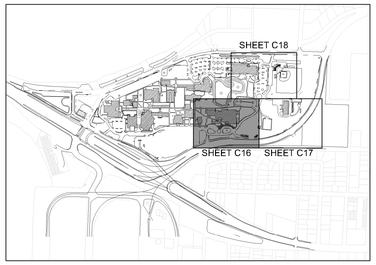
GULF COAST STATE COLLEGE CAMPUS IMPROVEMENTS PHASE II

OVERALL GEOMETRY PLAN

100% CONSTRUCTION DOCUMENTS

Sheet Number
C15



KEY MAP
N.T.S.

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

LEGEND:

- EXISTING ASPHALT - NO OVERLAY
- PROPOSED ASPHALT, BASE AND SUBBASE
- PROPOSED LIGHT POLE

MATCHLINE

MATCHLINE

Wellness/Billy Harrison Field House

Radio Tower

Professional Development

23rd Street

CONSTRUCT NEW ASPHALT DRIVEWAY PER TYPICAL SECTION

MATCH EXISTING

61.86'

BEGIN MODIFIED TYPE F CURB, SEE DETAIL, TYP. MATCH TO EXISTING CURB

MODIFIED TYPE F CURB

MATCH EXISTING 0+00

S65° 53' 14.08"E 154.06'

R1' 57' 54"

BEGIN MODIFIED TYPE F CURB, SEE DETAIL, TYP. MATCH TO EXISTING CURB

MODIFIED TYPE F CURB

N36° 54' 24"E 266.86'

12+00

11+00

10+00 N60° 28' 42"E 114.69'

9+00

8+00

7+00

6+00

5+00

N89° 37' 03"E 369.28'

S89° 44' 45"E 40.00'

N58° 21' 31"E 16.91'

N13° 29' 41"E 87.55'

S13° 27' 20"E 63.79'

S57° 42' 41"E 6.57'

50'

50' TRANSITION TO TYPICAL SECTION

BEGIN MODIFIED TYPE F CURB, SEE DETAIL, TYP.

PROPOSED LIGHT POLE, TYP.

MODIFIED TYPE F CURB

PROPERTY BOUNDARY

L=295.98
R=1274.40
T=148.659
CH=295.31
Δ=13.31

S83° 14' 16"E 129.28'

S88° 21' 24"E 125.00'

S1° 38' 36"W 5.00'

S88° 21' 24"E 38.61'

L=101.71
R=200.00
T=51.983
CH=100.62
Δ=29.14

L=82.26
R=203.22
T=41.702
CH=81.70
Δ=23.19

L=353.34
R=894.93
T=180.984
CH=351.05
D=22.62

BEGIN MODIFIED TYPE F CURB, SEE DETAIL, TYP. MATCH TO EXISTING CURB

EXISTING CURB TO REMAIN ON THIS SIDE

CONSTRUCT 3' WIDE CONCRETE FLUME PER DETAIL, TYP.

EXISTING ASPHALT TO REMAIN

MODIFIED TYPE F CURB

BEGIN MODIFIED TYPE F CURB, SEE DETAIL, TYP. MATCH TO EXISTING CURB

MATCH EXISTING

BEGIN MODIFIED TYPE F CURB, SEE DETAIL, TYP. MATCH TO EXISTING CURB

MATCH EXISTING

BEGIN MODIFIED TYPE F CURB, SEE DETAIL, TYP. MATCH TO EXISTING CURB

CONSTRUCT 3' WIDE CONCRETE FLUME PER DETAIL, TYP.

MODIFIED TYPE F CURB

MATCH EXISTING

PROPOSED LIGHT POLE, TYP.

MODIFIED TYPE F CURB

MODIFIED TYPE F CURB

S60° 26' 33"W 42.60'

S60° 26' 33"W 42.60'

L=98.29
R=36.00
T=48.83
CH=68.62
D=23.48

L=98.41
R=36.00
T=48.89
CH=68.84
D=23.48

TOP OF STORMWATER FACILITY

BOTTOM OF STORMWATER FACILITY

N 433155.3640
E 1582099.3821

N 433083.6661
E 1582017.7589

STORMWATER FACILITY #1

N 433062.6531
E 1581980.7052

BOTTOM OF STORMWATER FACILITY

S1° 35' 28"W 4.43'

N 433055.9163
E 1581976.6546

S1° 35' 28"W 4.43'

N 433051.4924
E 1581976.5317

N 433043.2837
E 1581984.0638

R40'

R40'

PROPERTY BOUNDARY

TOP OF STORMWATER FACILITY

VAULT VAULT

SS

OHU

F.O.

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FL. P.E. 67361

Principal in Charge
Joseph J. Sorci
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M.W.
Checked By:
J.S.
Revisions:

BID No.
ITB#7-2016/2017

Dewberry
PREBLE-RISH

GULF COAST STATE COLLEGE
CAMPUS IMPROVEMENTS
PHASE II

SITE GEOMETRY
PLAN - A

100% CONSTRUCTION DOCUMENTS

Sheet Number
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K:\30089951 GCSC PARKING IMPROVEMENTS PH II_CIVIL3D\FOLDER_PRODUCTION\30089951_GEO.DWG

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

MATCH EXISTING

BEGIN MODIFIED TYPE F CURB, SEE DETAIL, TYP. MATCH TO EXISTING CURB

MATCH EXISTING

MATCH EXISTING

PROPOSED LIGHT POLE, TYP.

REMOVE EXISTING SIDEWALK AND CONSTRUCT HANDICAP RAMP PER FDOT INDEX #304 (CR C)

Maintenance

COMM. VAULT

MATCH EXISTING

MATCH EXISTING

MODIFIED TYPE F CURB

MODIFIED TYPE F CURB

MODIFIED TYPE F CURB

1+76

0+00

14+35

N 433409.5405
E 1582206.0745

1+00

14+00

N 433280.7163
E 1582193.7225

N 433280.5191
E 1582206.6503

BOTTOM OF STORMWATER FACILITY

S36° 57' 55"W 156.69'

S36° 57' 55"W 156.69'

N35° 13' 03"W 121.99'

N35° 13' 03"W 121.99'

S34° 54' 37"E 238.23'

2+00

S89° 15' 21"W 177.31'

TOP OF STORMWATER FACILITY

S89° 15' 21"W 171.80'

BOTTOM OF STORMWATER FACILITY

N 433249.6829
E 1582419.1190

N 433237.7449
E 1582412.2597

N 433251.9139
E 1582590.9032

STORMWATER MANAGEMENT FACILITY #1
WET DETENTION
PERMANENT POOL ELEV. 4.00
(PRIVATE)

L=18.90
R=200.00
T=9.455
CH=18.89
Δ=5.41

S29° 29' 40"E 83.19'

S29° 29' 40"E 83.19'

BOTTOM OF STORMWATER FACILITY

L=85.16
R=857.93
T=42.609
CH=85.12
D=5.68

L=85.16
R=857.93
T=42.609
CH=85.12
D=5.68

PROPERTY BOUNDARY

N 433162.3484
E 1582464.1901

N 433165.3334
E 1582453.2190

L=49.65
R=904.93
T=24.836
CH=49.65
Δ=3.14

TOP OF STORMWATER FACILITY

S28° 08' 57"E 8.00'

CONSTRUCT HANDICAP RAMP PER FDOT INDEX #304 (CR G)

N 433180.8544
E 1582277.0019

N 433159.2685
E 1582290.7436

N29° 44' 42"W 86.19'

N29° 44' 42"W 86.19'

S29° 29' 50"E 130.46'

STORMWATER MANAGEMENT FACILITY #1
WET DETENTION
PERMANENT POOL ELEV. 4.00
(PRIVATE)

N 433101.7954
E 1582323.5854

N 433090.2755
E 1582319.2823

BOTTOM OF STORMWATER FACILITY

L=340.70
R=862.93
T=172.600
CH=338.50
D=22.62

L=353.34
R=894.93
T=178.904
CH=351.05
D=22.62

CONSTRUCT HANDICAP RAMP PER FDOT INDEX #304 (CR G)

PROPERTY BOUNDARY

TOP OF STORMWATER FACILITY

L=451.99
R=899.93
T=230.867
CH=447.25
Δ=28.78

STATE ROAD NO. 368
(2360 (2017))
W 23rd STREET

LOT 18

LOT 17

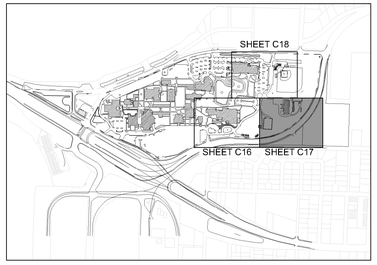
LOT 15

BROWN STREET (NOT OPEN)

20th STREET

NOT IN THIS CONTRACT
(FUTURE PHASE)

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



KEY MAP
N.T.S.

LEGEND:

EXISTING ASPHALT - NO OVERLAY

PROPOSED ASPHALT, BASE AND SUBBASE

PROPOSED LIGHT POLE

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JONATHAN SKLARSKI
FL. P.E. 67361

Principal in Charge
Joseph J. Sorci
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Drawn By:
M.W.
Checked By:
J.S.
Revisions:

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ITB#7-2016/2017

Dowberry PREBLE-RISH

GULF COAST STATE COLLEGE CAMPUS IMPROVEMENTS PHASE II

SITE GEOMETRY PLAN - B

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COLLEGIATE DRIVE R/W VARIES

Collegiate Drive

CONSTRUCT HANDICAP RAMP PER FDOT INDEX #304 (CR F)

S1° 51' 25"W 10.00'

S88° 09' 05"E 20.55'

MATCH EXISTING

N1° 50' 55"E 17.97'

S88° 40' 26"E 151.77'

PROPERTY BOUNDARY

L=33.31
R=1004.62
T=16.656
CH=33.31
Δ=1.90

N14° 26' 29"E 61.28' 22+50

22+00 N14° 26' 29"E 1.15'

R35'

12.58'

L=36.31
R=496.33
T=18.163
CH=36.30
Δ=4.19

L=128.68
R=1004.62
T=64.426
CH=128.59
Δ=7.34

12'

R20'

STOP

23.42'

21+00 N10° 14' 39"E 46.67'

BEGIN MODIFIED TYPE F CURB, SEE DETAIL, TYP. MATCH TO EXISTING CURB

CONSTRUCT HANDICAP RAMP PER FDOT INDEX #304 (CR 23)

10'

L=34.66
R=250.00
T=17.356
CH=34.63
Δ=7.94

CONSTRUCT HANDICAP RAMP PER FDOT INDEX #304 (CR E)

CONNECT TO EXISTING SIDEWALK

Concrete Bleachers

CONSTRUCT HANDICAP RAMP PER FDOT INDEX #304 (CR D)

11' 11' 11'

MODIFIED TYPE F CURB

20+00

19.83'

5'

CONSTRUCT 5' WIDE CONCRETE SIDEWALK

PROPOSED LIGHT POLE, TYP.

19+00

R50'

N2° 18' 26"E 449.26'

Bill Frazier Field

NEW BRICK PAVERS SEE ARCHITECTURAL PLANS FOR PAVER SECTION, TYP.

CONSTRUCT SIDEWALK TO MATCH PROPOSED GRADES AT BACK OF CURB

18+00

EXISTING BRICK PAVERS

REMOVE ISLAND, REPLACE WITH BRICK PAVERS SEE ARCHITECTURAL PLANS FOR PAVER SECTION, TYP.

R12'

R2'

R4.5'

R15'

R3'

24'

17+00

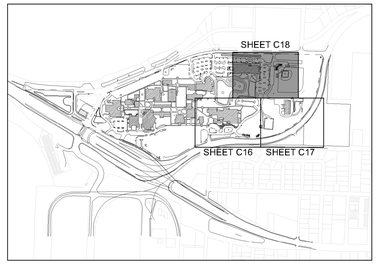
R30'

NEW BRICK PAVERS SEE ARCHITECTURAL PLANS FOR PAVER SECTION, TYP.

REMOVE EXISTING SIDEWALK AND CONSTRUCT SIDEWALK TO MATCH PROPOSED GRADES

L=54.67
R=150.00
T=27.642
CH=54.37
Δ=20.88

MATCHLINE



KEY MAP
N.T.S.

LEGEND:

EXISTING ASPHALT - NO OVERLAY

PROPOSED ASPHALT, BASE AND SUBBASE

PROPOSED LIGHT POLE

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

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JONATHAN SKLARSKI
FL. P.E. 67361

Principal in Charge
Joseph J. Sorci
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M.W.
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GULF COAST STATE COLLEGE CAMPUS IMPROVEMENTS PHASE II

SITE GEOMETRY PLAN - C

100% CONSTRUCTION DOCUMENTS

Sheet Number
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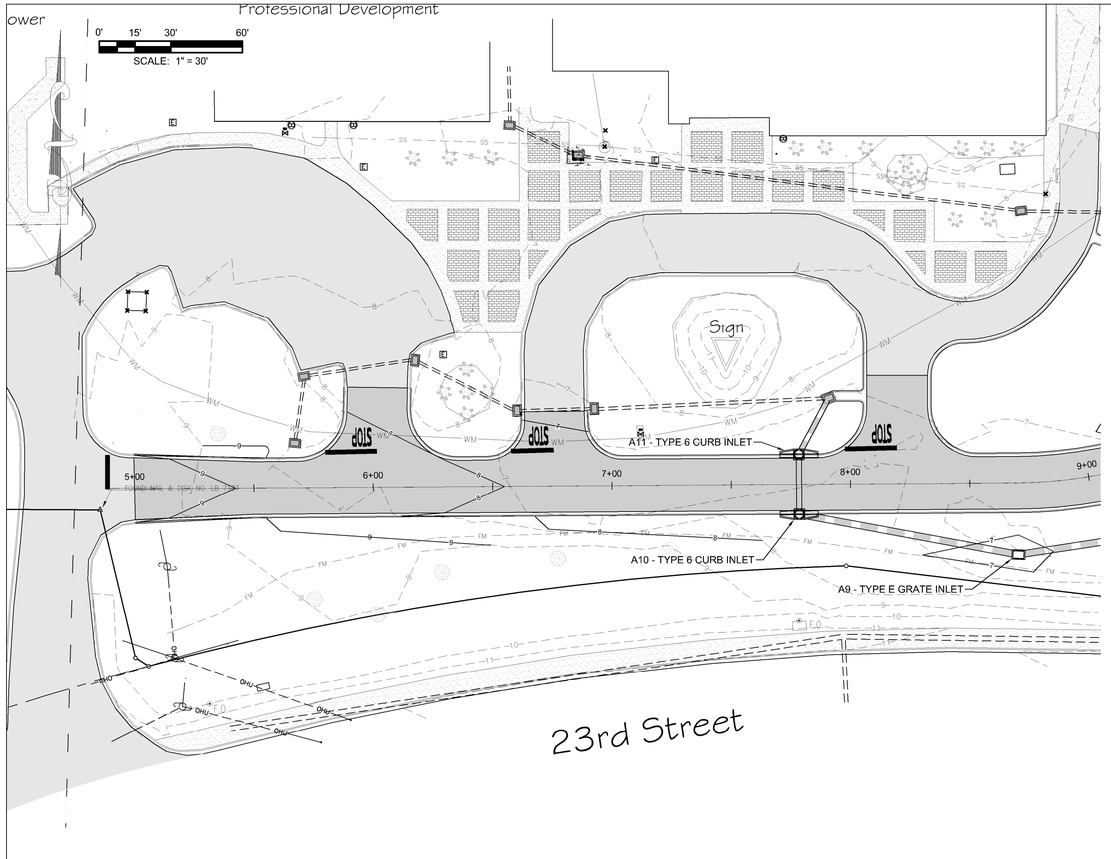

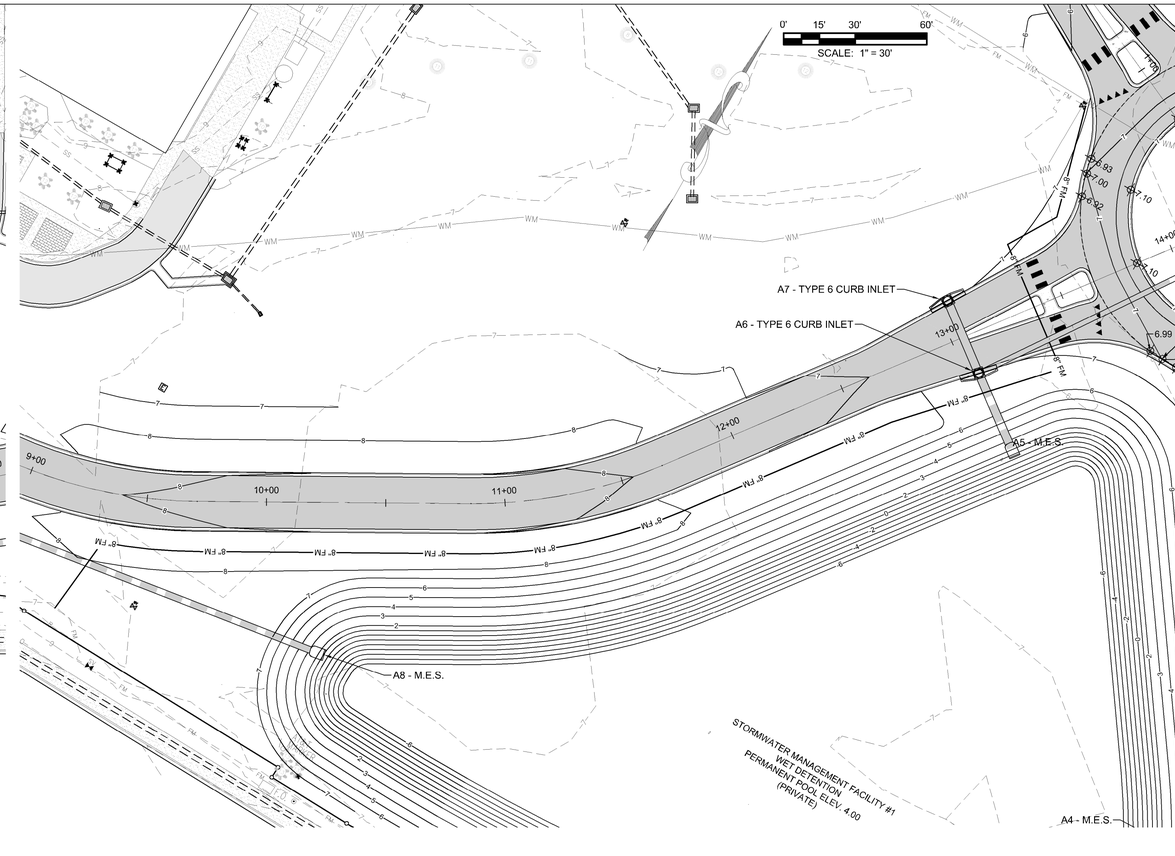

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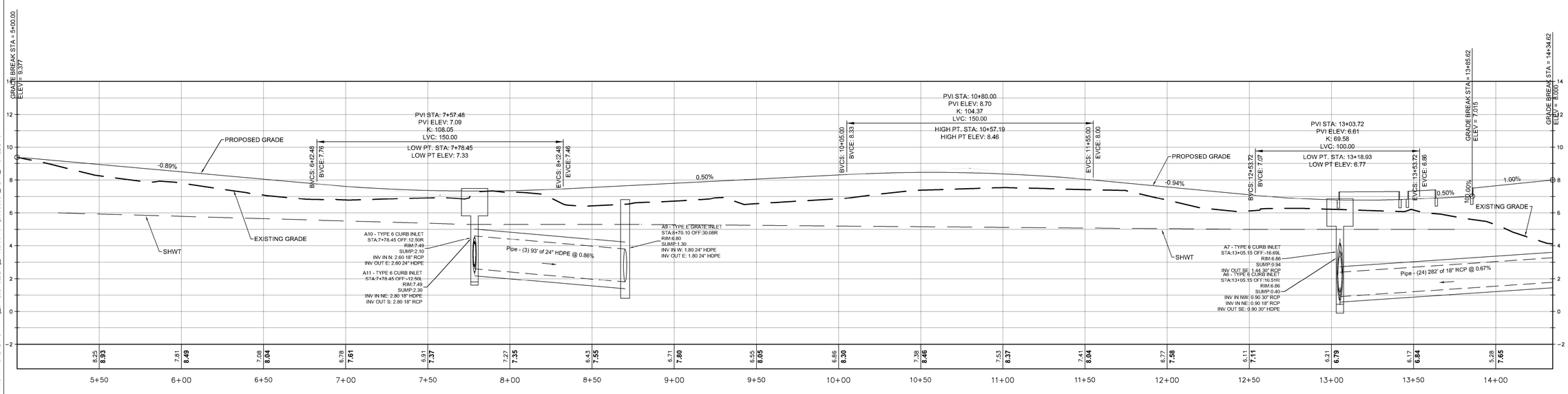

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GULF COAST STATE COLLEGE CAMPUS IMPROVEMENTS PHASE II

PLAN AND PROFILE

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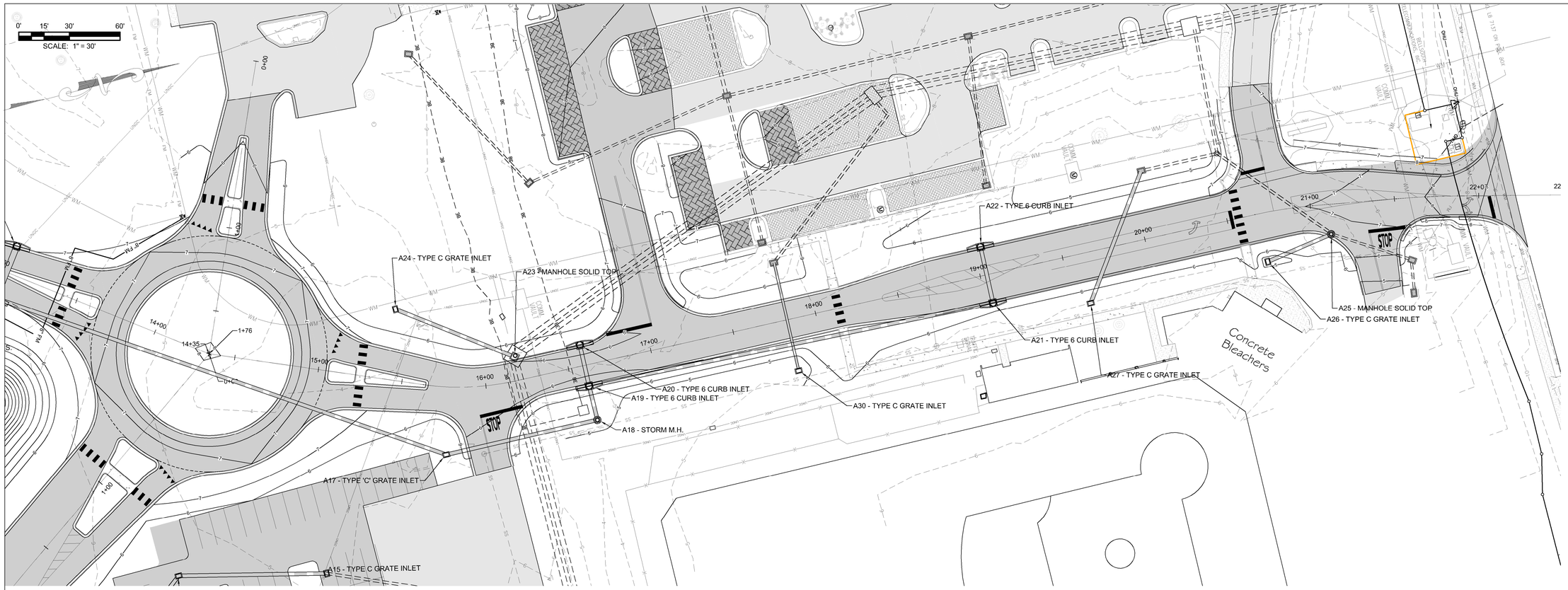
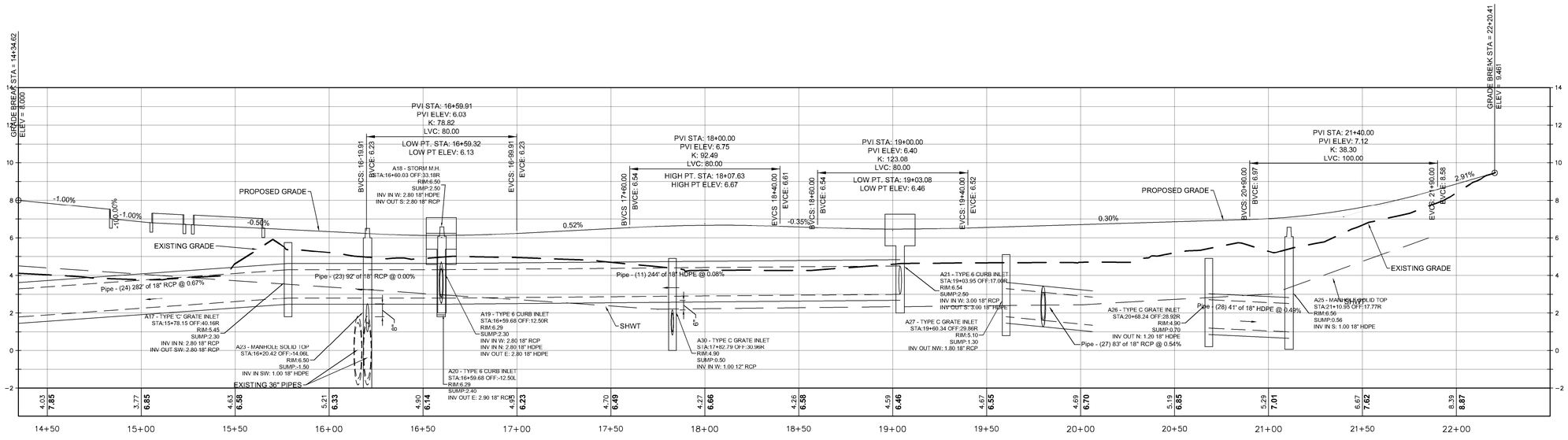


MAIN_ROADWAY_2 PROFILE



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GULF COAST STATE COLLEGE CAMPUS IMPROVEMENTS PHASE II

PLAN AND PROFILE

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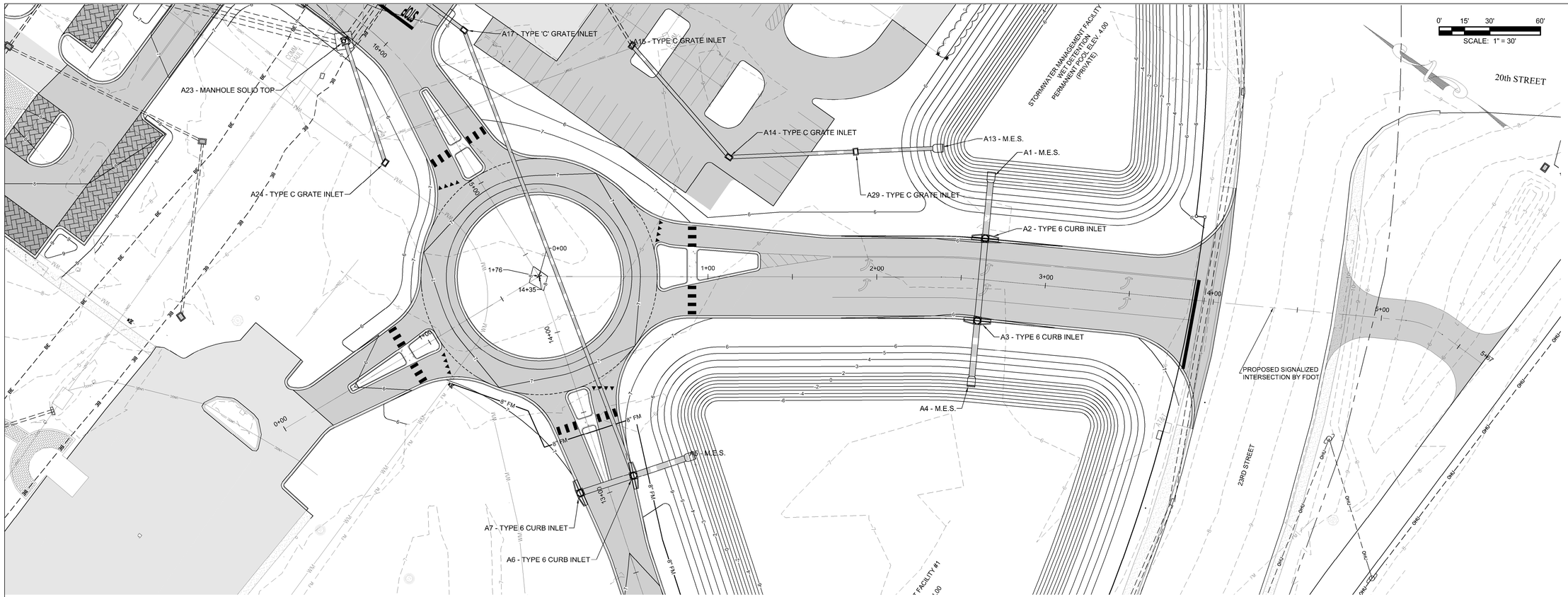

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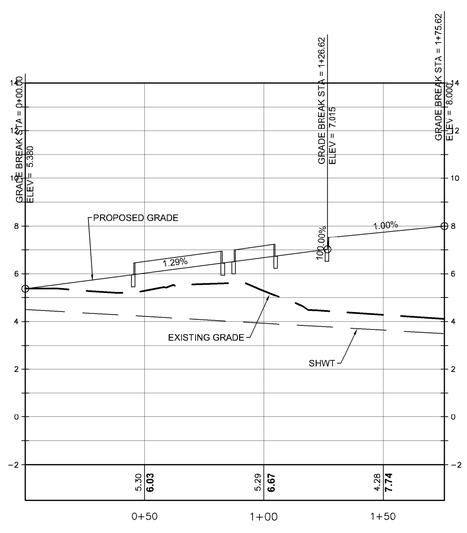
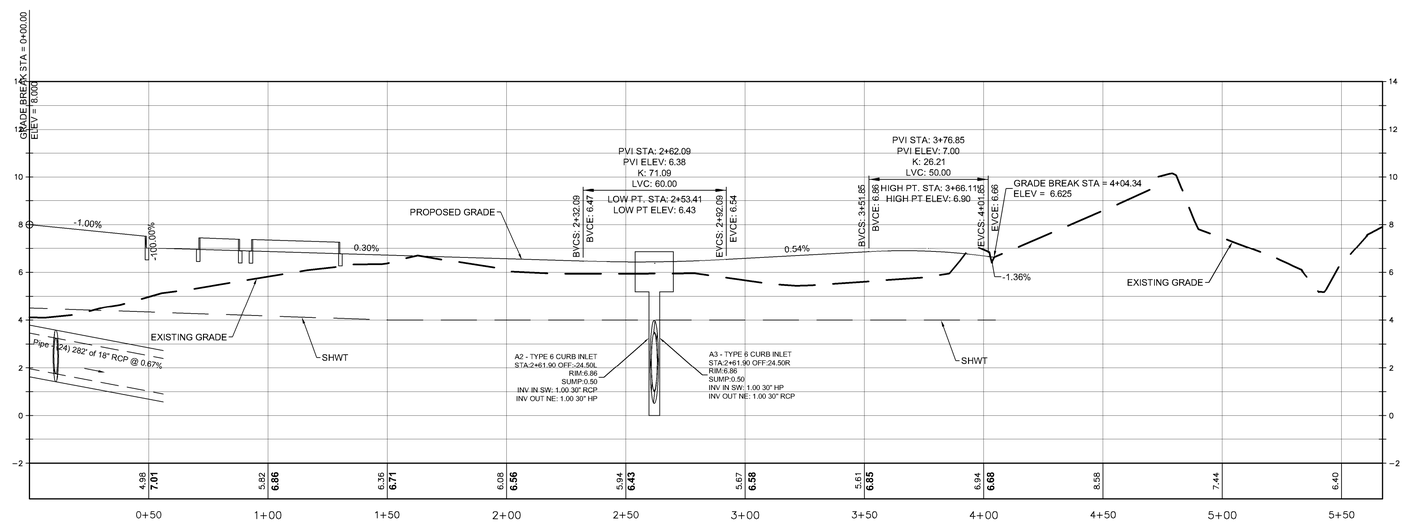


ENTRANCE-TO-23RD PROFILE



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GULF COAST STATE COLLEGE
CAMPUS IMPROVEMENTS
PHASE II

PLAN AND PROFILE

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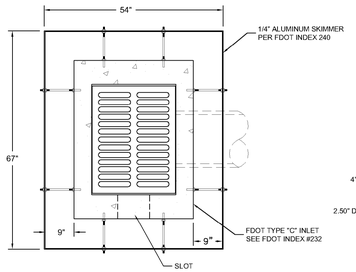
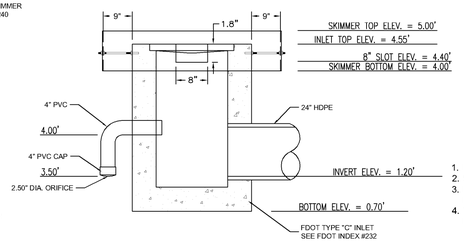


PLAN VIEW



SECTION VIEW

DETAIL CONCRETE DISCHARGE STRUCTURE (TYPE C)

SCALE: N.T.S.

STORMWATER OPERATION/MAINTENANCE PLAN
OPERATION AND MAINTENANCE ENTITY IS D.R HORTON INC.

AFTER EACH RAINFALL EVENT

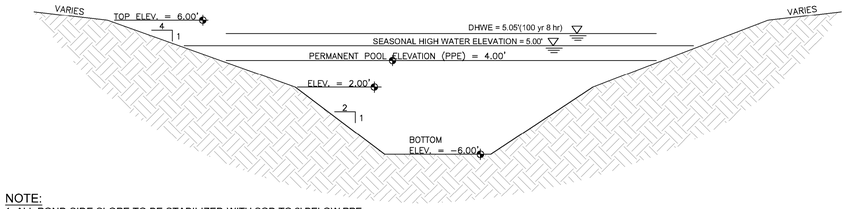
1. PAVEMENT AREAS – CLEAN/SWEEP DEBRIS AND DIRT FROM PAVEMENT AREAS.
2. SEDIMENTS IN RETENTION/DETENTION AREAS – REMOVED IMMEDIATELY.
3. DEBRIS IN RETENTION/DETENTION AREAS – ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED IMMEDIATELY.
4. YARD INLETS, CATCH BASINS, ETC. – ALL DEBRIS AND FOREIGN MATERIALS SHALL BE REMOVED IMMEDIATELY.

PERIODIC POND/SYSTEM MAINTENANCE

1. CLEANING/SWEEPING OF PAVEMENT AREAS SHALL BE ACCOMPLISHED WEEKLY OR AS REQUIRED.
2. INSPECT POND PERIODICALLY FOR ACCUMULATION OF TRASH AND DEBRIS AND REMOVE IT UPON DISCOVERY.
3. MOWING AND LANDSCAPING MAINTENANCE SHOULD BE DONE ON A MONTHLY BASIS DURING THE ACTIVE GROWING SEASON FOR THE AREA. INSPECT AND MAINTAIN AS REQUIRED DURING THE GROWING SEASON.
4. WEEDS OR UNDESIRABLE GROWTH SHALL BE REMOVED UPON DISCOVERY.
5. CATCH BASINS SHALL BE FLUSHED AS NECESSARY (IF ANY).
6. THE OWNER SHALL RE-GRADE AND RE-STABILIZE SWALE/RETENTION/DETENTION AREAS AS REQUIRED TO MAINTAIN THE APPROVED DESIGN, CROSS-SECTION, LINE, AND GRADE.
7. REMOVE SEDIMENT FROM POND WHEN ACCUMULATION REACHES FOUR (4) INCHES. MEASURE ACCUMULATION ONCE A YEAR.

INSPECTIONS

1. A MAINTENANCE INSPECTION MUST BE PERFORMED EVERY THIRD YEAR BY A REGISTERED PROFESSIONAL.
2. THE MAINTENANCE INSPECTION MUST BE DOCUMENTED ON THE FDEP AND/OR NWFWMD STANDARD INSPECTION FORM 62-330.311(1).
3. THE INSPECTION MUST BE SIGNED, SEALED, AND DATED BY THE REGISTERED PROFESSIONAL AND RECORDS MUST BE MADE AVAILABLE UPON REQUEST OF FDEP AND/OR NWFWMD.
4. THE INSPECTION MUST BE CONDUCTED USING THE PLANS, CALCULATIONS AND SPECIFICATIONS APPROVED BY THE FDEP AND/OR NWFWMD.

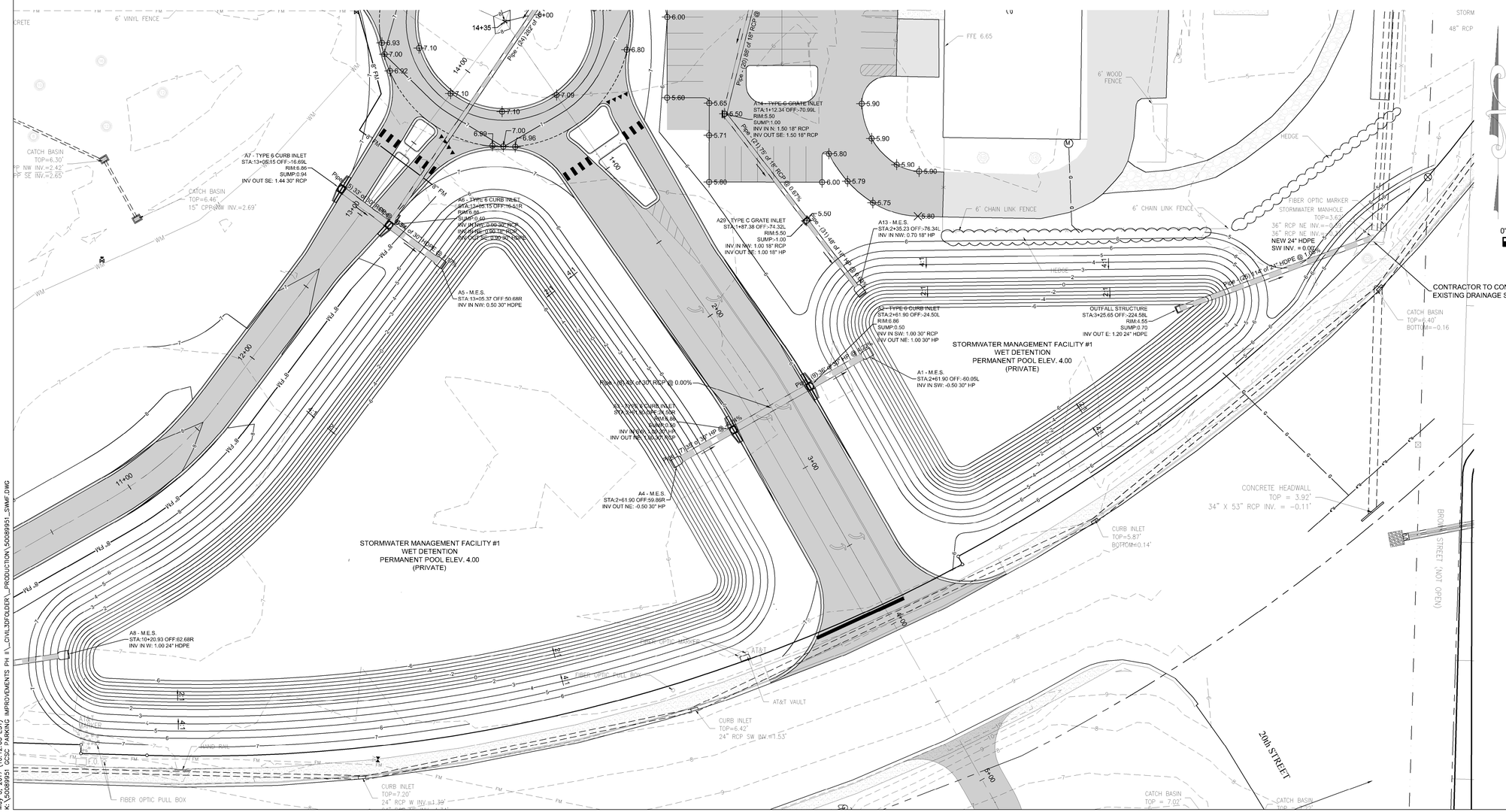


NOTE:
1. ALL POND SIDE SLOPE TO BE STABILIZED WITH SOD TO 2' BELOW PPE.
2. ALL OTHER DISTURBED AREAS TO BE STABILIZED WITH HYDROSEED OR SOD.

SECTION

SCALE: N.T.S.

TYPICAL POND SECTION



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FLA
FLORIDA ARCHITECTS
LICENSE #AA0002730
648 Florida Avenue
Panama City, Fl. 32401
P 850/257-5400

JONATHAN SKLARSKI
FL. P.E. 67361

Principal in Charge
Joseph J. Sorci
Project Number:
4166-14
Date Issued:
5-4-2017
Drawn By:
M.W.
Checked By:
J.S.
Revisions:

BID No.
ITB#7-2016/2017

Dowberry PREBLE-RISH

GULF COAST STATE COLLEGE
CAMPUS IMPROVEMENTS
PHASE II

STORMWATER
FACILITY PLAN
AND DETAILS

100% CONSTRUCTION DOCUMENTS

Sheet Number
C22

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DRAINAGE STRUCTURE TABLE		
NO.	TOP OF GRATE ELEV.	PIPE INV. ELEV.
A1 - M.E.S.	N/A	INV. IN (SW)(30")= -0.50'
A2 - TYPE 6 CURB INLET	TOP ELEV. = 6.86'	INV. IN (SW)(30")= 1.00' INV. OUT = 1.00
A3 - TYPE 6 CURB INLET	TOP ELEV. = 6.86'	INV. IN (SW)(30")= 1.00' INV. OUT = 1.00
A4 - M.E.S.	N/A	INV. OUT = -0.50
A5 - M.E.S.	N/A	INV. IN (NW)(30")= 0.50'
A6 - TYPE 6 CURB INLET	TOP ELEV. = 6.86'	INV. IN (NW)(30")= 0.90' INV. IN (NE)(18")= 0.90' INV. OUT = 0.90
A7 - TYPE 6 CURB INLET	TOP ELEV. = 6.86'	INV. OUT = 1.44
A8 - M.E.S.	N/A	INV. IN (W)(24")= 1.00'
A9 - TYPE E GRATE INLET	TOP ELEV. = 6.80'	INV. IN (W)(24")= 1.80' INV. OUT = 1.80
A10 - TYPE 6 CURB INLET	TOP ELEV. = 7.49'	INV. IN (N)(18")= 2.60' INV. OUT = 2.60
A11 - TYPE 6 CURB INLET	TOP ELEV. = 7.49'	INV. IN (NE)(18")= 2.80' INV. OUT = 2.80
A13 - M.E.S.	N/A	INV. IN (NW)(18")= 0.70'
A14 - TYPE C GRATE INLET	TOP ELEV. = 5.50'	INV. IN (N)(18")= 1.50' INV. OUT = 1.50
A15 - TYPE C GRATE INLET	TOP ELEV. = 5.00'	INV. OUT = 2.03
A17 - TYPE 'C' GRATE INLET	TOP ELEV. = 5.45' SLOT ELEV.= 4.95	INV. IN (N)(18")= 2.80' INV. OUT = 2.80
A18 - STORM M.H.	TOP ELEV. = 5.30'	INV. IN (W)(18")= 2.80' INV. OUT = 2.80
A19 - TYPE 6 CURB INLET	TOP ELEV. = 6.29'	INV. IN (W)(18")= 2.80' INV. IN (N)(18")= 2.80' INV. OUT = 2.80
A20 - TYPE 6 CURB INLET	TOP ELEV. = 6.29'	INV. OUT = 2.90
A21 - TYPE 6 CURB INLET	TOP ELEV. = 6.54'	INV. IN (W)(18")= 3.00' INV. OUT = 3.00
A22 - TYPE 6 CURB INLET	TOP ELEV. = 6.54'	INV. OUT = 3.00
A23 - MANHOLE SOLID TOP	TOP ELEV. = 6.50'	INV. IN (SW)(18")= 1.00'
A24 - TYPE C GRATE INLET	TOP ELEV. = 5.50'	INV. OUT = 1.50
A25 - MANHOLE SOLID TOP	TOP ELEV. = 6.56'	INV. IN (S)(18")= 1.00'
A26 - TYPE C GRATE INLET	TOP ELEV. = 4.90'	INV. OUT = 1.20
A27 - TYPE C GRATE INLET	TOP ELEV. = 5.10'	INV. OUT = 1.80
A29 - TYPE C GRATE INLET	TOP ELEV. = 5.50'	INV. IN (NW)(18")= 1.00' INV. OUT = 1.00
A30 - TYPE C GRATE INLET	TOP ELEV. = 4.90'	INV. IN (W)(12")= 1.00'
OUTFALL STRUCTURE	TOP ELEV. = 4.55'	INV. OUT = 1.20

NOTES:
1. MITERED END SECTIONS SHALL BE CONSTRUCTED PER FDOT STANDARD INDEX #272.
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3. TYPE 'C' AND 'E' INLETS SHALL BE CONSTRUCTED PER FDOT STANDARD INDEX #232.
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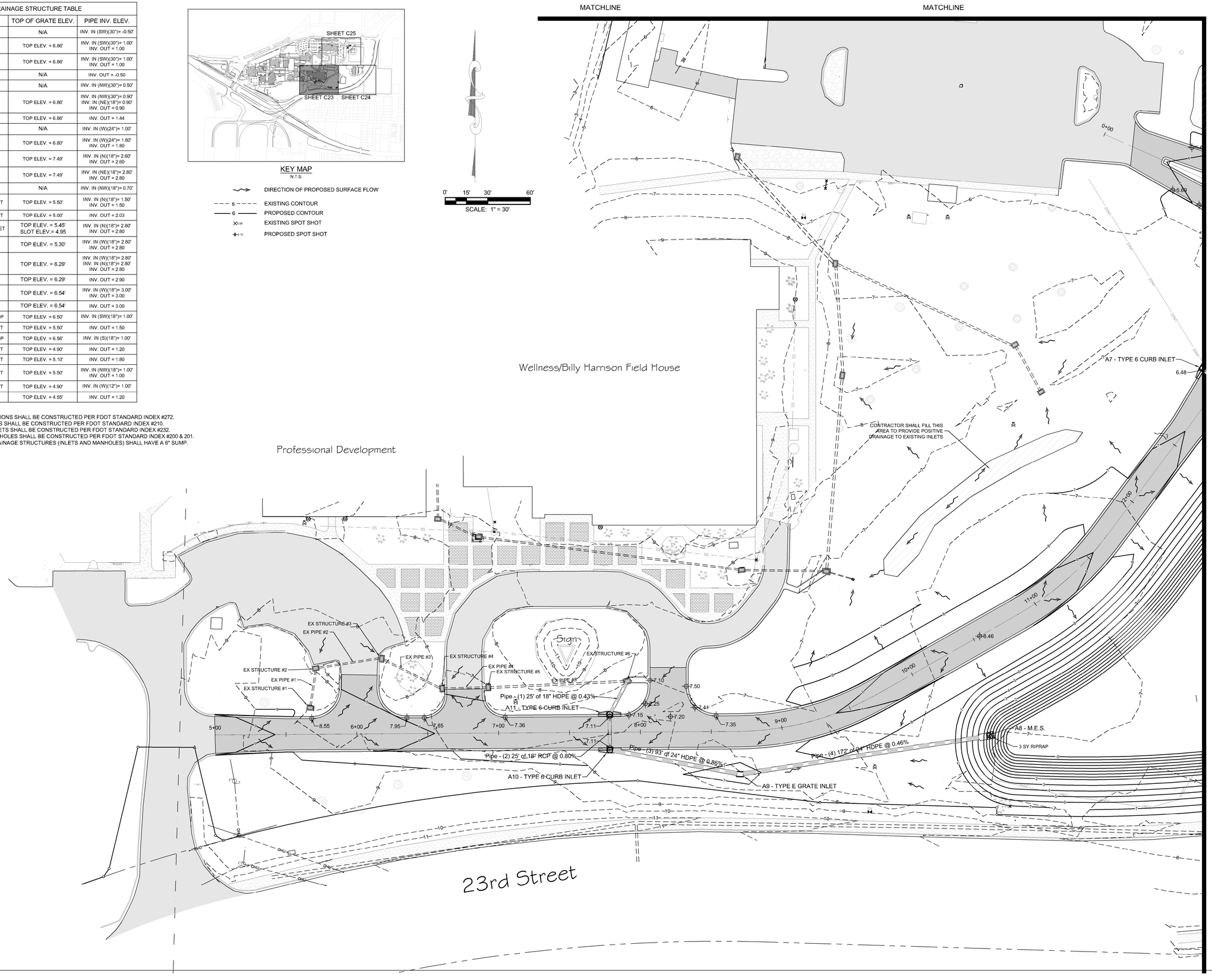
5. ALL PROPOSED DRAINAGE STRUCTURES (INLETS AND MANHOLES) SHALL HAVE A 6" SUMP.

KEY MAP
N.T.S.

DIRECTION OF PROPOSED SURFACE FLOW
EXISTING CONTOUR
PROPOSED CONTOUR
EXISTING SPOT SHOT
PROPOSED SPOT SHOT

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



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J.S.
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Dowberry PREBLE-RISH

GULF COAST STATE COLLEGE
CAMPUS IMPROVEMENTS
PHASE II

SITE GRADING
PLAN - A

100% CONSTRUCTION DOCUMENTS

Sheet Number
C23

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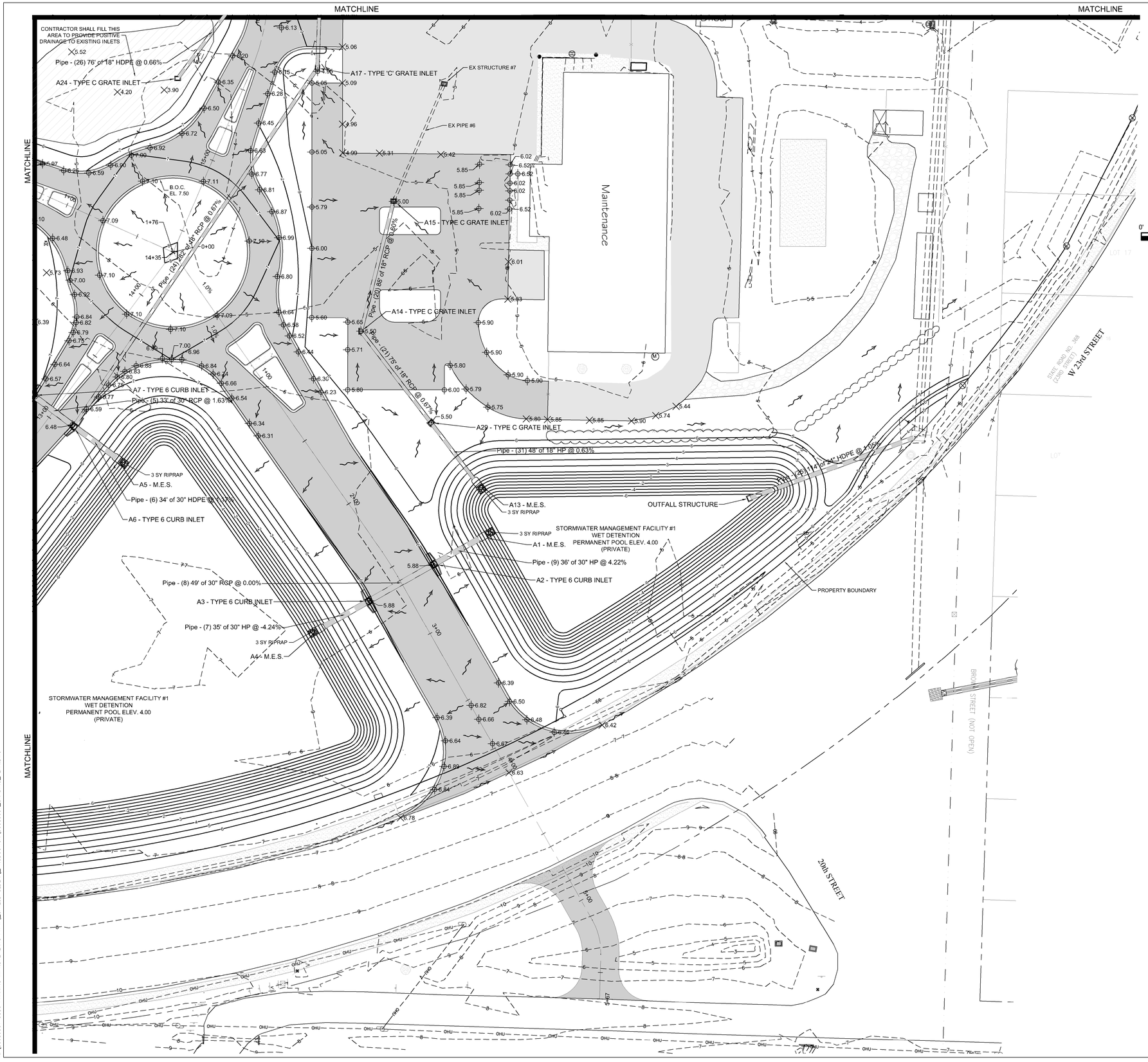

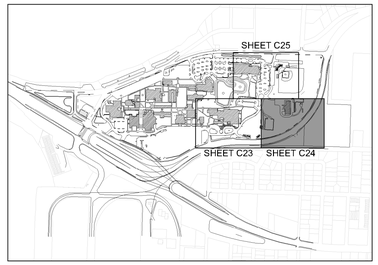

KEY MAP
N.T.S.

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

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EXISTING CONTOUR
PROPOSED CONTOUR
EXISTING SPOT SHOT
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A6 - TYPE 6 CURB INLET	TOP ELEV. = 6.86'	INV. IN (NW)(30")= 0.90' INV. IN (NE)(18")= 0.90' INV. OUT = 0.90
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A8 - M.E.S.	N/A	INV. IN (W)(24")= 1.00'
A9 - TYPE E GRATE INLET	TOP ELEV. = 6.80'	INV. IN (W)(24")= 1.80' INV. OUT = 1.80
A10 - TYPE 6 CURB INLET	TOP ELEV. = 7.49'	INV. IN (N)(18")= 2.60' INV. OUT = 2.60
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A15 - TYPE C GRATE INLET	TOP ELEV. = 5.00'	INV. OUT = 2.03
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Principal in Charge
Joseph J. Sorci
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4166-14
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M.W.
Checked By:
J.S.
Revisions:

BID No.
ITB#7-2016/2017

Dewberry
PREBLE-RISH

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GULF COAST STATE COLLEGE
CAMPUS IMPROVEMENTS
PHASE II

SITE GRADING
PLAN - B

100% CONSTRUCTION DOCUMENTS

Sheet Number
C24

May 8, 2017 (13:45:12 EST)
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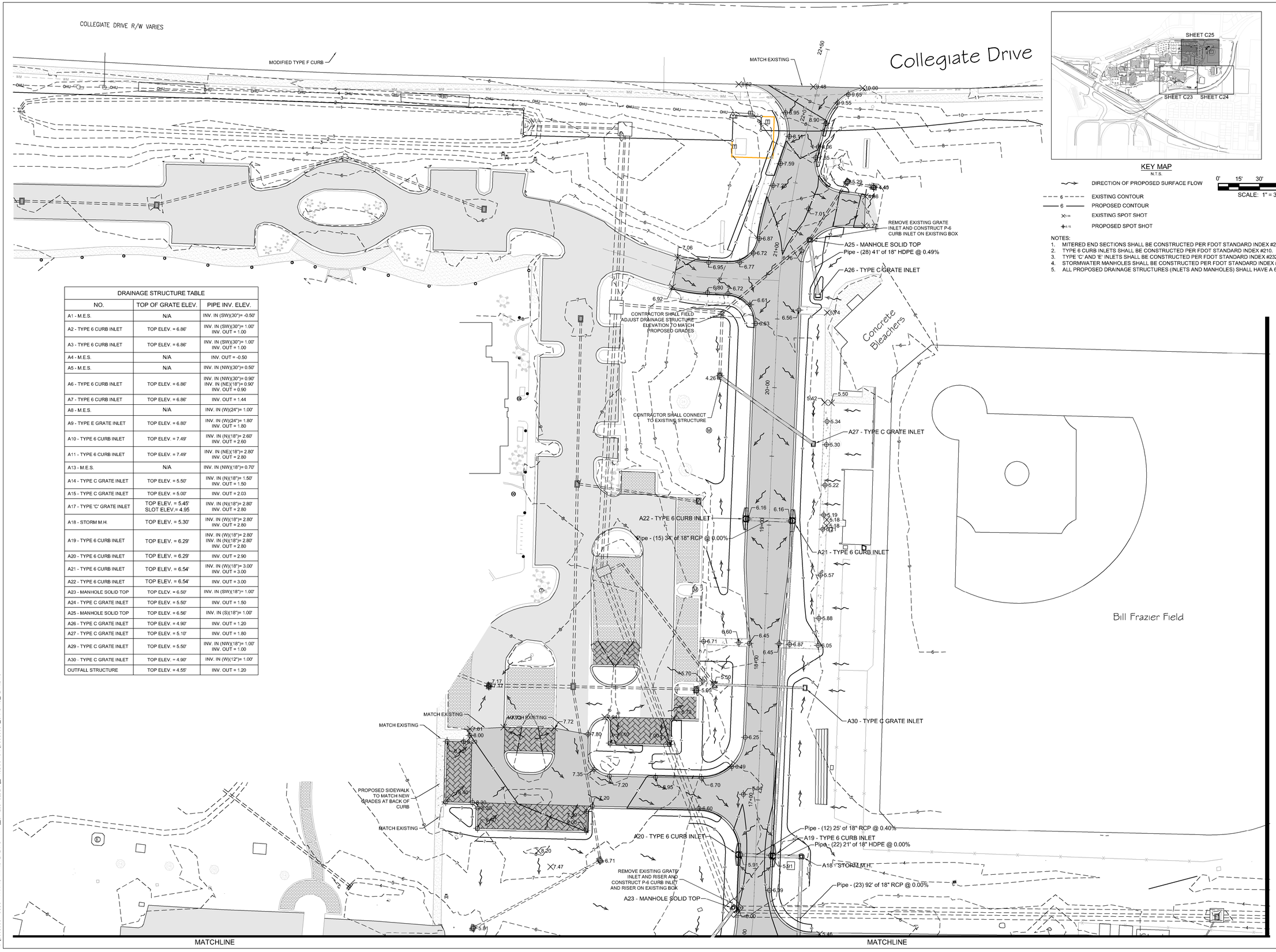

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A10 - TYPE 6 CURB INLET	TOP ELEV. = 7.49'	INV. IN (N)(18")= 2.60' INV. OUT = 2.60
A11 - TYPE 6 CURB INLET	TOP ELEV. = 7.49'	INV. IN (NE)(18")= 2.80' INV. OUT = 2.80
A13 - M.E.S.	N/A	INV. IN (NW)(18")= 0.70'
A14 - TYPE C GRATE INLET	TOP ELEV. = 5.50'	INV. IN (N)(18")= 1.50' INV. OUT = 1.50
A15 - TYPE C GRATE INLET	TOP ELEV. = 5.00'	INV. OUT = 2.03
A17 - TYPE 'C' GRATE INLET	TOP ELEV. = 5.45' SLOT ELEV.= 4.95	INV. IN (N)(18")= 2.80' INV. OUT = 2.80
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KEY MAP
N.T.S.

DIRECTION OF PROPOSED SURFACE FLOW
EXISTING CONTOUR
PROPOSED CONTOUR
EXISTING SPOT SHOT
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0' 15' 30' 60'
SCALE: 1" = 30'

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M.W.
Checked By:
J.S.
Revisions:

BID No.
ITB#7-2016/2017

Dowberry PREBLE-RISH

GULF COAST STATE COLLEGE CAMPUS IMPROVEMENTS PHASE II

SITE GRADING PLAN - C

100% CONSTRUCTION DOCUMENTS

Sheet Number
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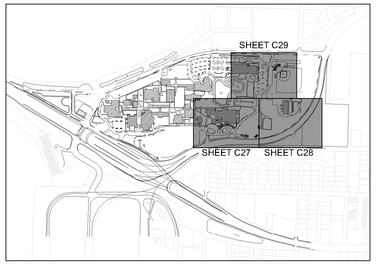
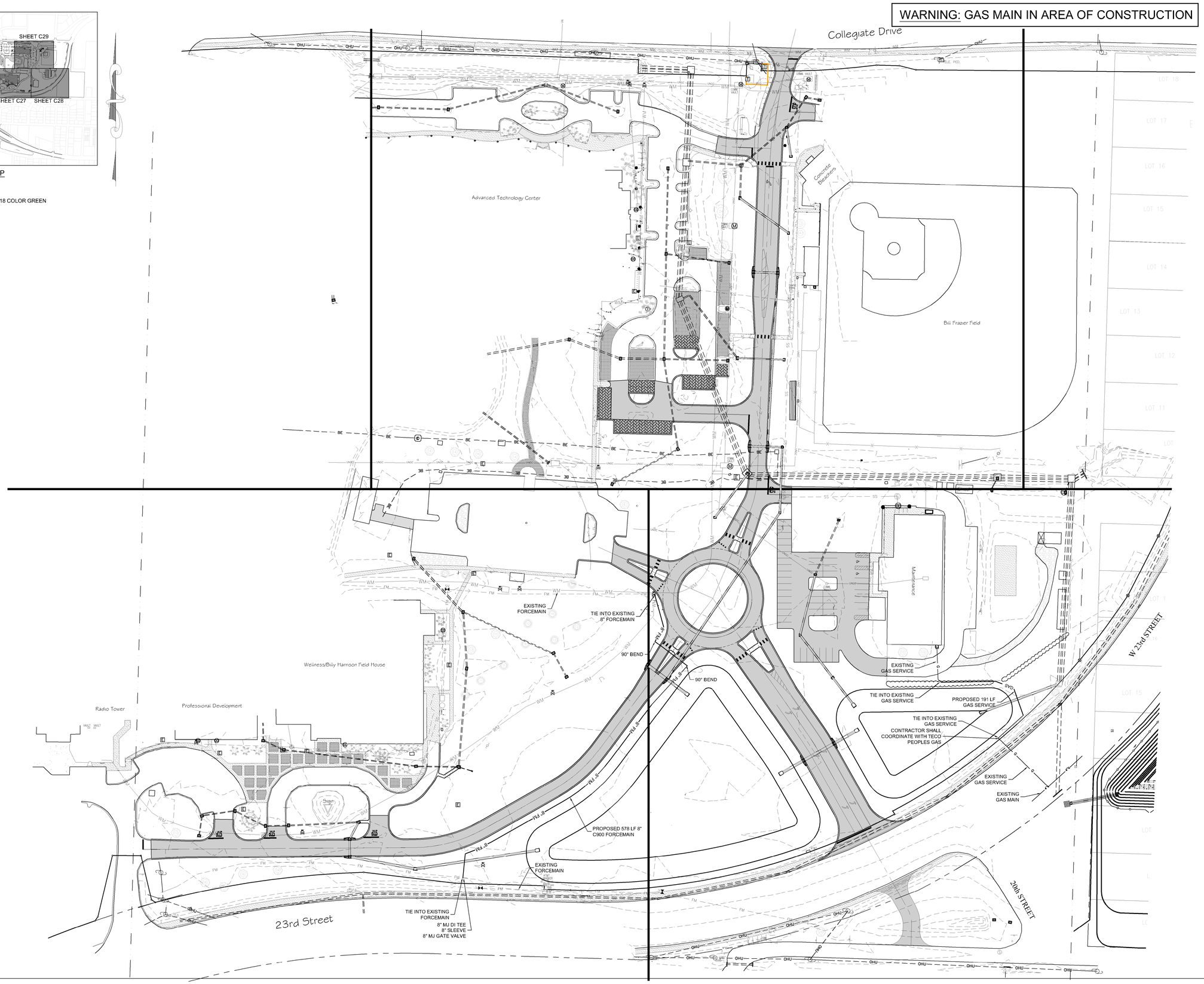
WARNING: GAS MAIN IN AREA OF CONSTRUCTION



KEY MAP
N.T.S.

NOTE:
FORCEMAIN SHALL BE C900 DR18 COLOR GREEN



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GULF COAST STATE COLLEGE CAMPUS IMPROVEMENTS PHASE II

OVERALL UTILITY PLAN

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Sheet Number
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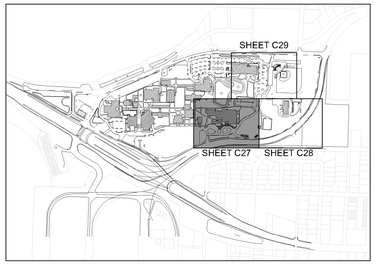

KEY MAP
N.T.S.

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

MATCHLINE

MATCHLINE

CAUTION ELECTRIC

Wellness/Billy Harrison Field House

Radio Tower

Professional Development

VAULT VAULT

Sign

CAUTION WATER

CAUTION WATER

5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00

PROPOSED 8" C900 FORCEMAIN

PROPOSED 8" 90° BEND

TIE IN PROPOSED 8" FORCEMAIN TO EXISTING FORCEMAIN

8" MJ DI TEE
8" SLEEVE
8" MJ GATE VALVE

AT&T MARKER

23rd Street

May 5, 2017 (10:41:08 EST)
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GULF COAST STATE COLLEGE CAMPUS IMPROVEMENTS PHASE II

UTILITY PLAN - A

100% CONSTRUCTION DOCUMENTS

Sheet Number
C27

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

CAUTION SEWER

CAUTION WATER

CAUTION COMMUNICATION

Maintenance

COMM. VAULT

UNGC

1+76

TIE IN 8" FORCEMAIN TO EXISTING 8" FORCEMAIN

0+00

14+35

PROPOSED 8" 45° BEND

14+00

15+00

1+00

8" FM

PROPOSED 8" 90° BEND

END RELOCATION OF GAS LINE TO MAINTENENCE BUILDING

CONTRACTOR TO COORDINATE WITH GAS COMPANY TO RELOCATE GAS SERVICE TO EXISTING BLDG

CAUTION GAS MAIN

GAS

STORMWATER MANAGEMENT FACILITY #1
WET DETENTION
PERMANENT POOL ELEV. 4.00
(PRIVATE)

START RELOCATION OF GAS LINE TO MAINTENENCE BUILDING

PROPERTY BOUNDARY

2+00

3+00

4+00

5+00

STORMWATER MANAGEMENT FACILITY #1
WET DETENTION
PERMANENT POOL ELEV. 4.00
(PRIVATE)

ATT&T

OHU

STATE ROAD NO. 368
(2080 (2017))
W 23rd STREET

LOT 18

LOT 17

LOT 15

BROAD STREET (NOT OPEN)

20th STREET

0' 15' 30' 60'

SCALE: 1" = 30'

SHEET C29

SHEET C27

SHEET C28

KEY MAP
N.T.S.

WARNING: GAS MAIN IN AREA OF CONSTRUCTION

May 5, 2017 (10:41:08 EST)
K:\20089951 GCSC PARKING IMPROVEMENTS PH II_CIVIL\DFOLDER_PRODUCTION\20089951_UTILITYPLAN.DWG

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FLORIDA ARCHITECTS
LICENSE #AA0002730
648 Florida Avenue
Panama City, Fl. 32401
P 850/257-5400

JONATHAN SKLARSKI
FL. P.E. 67361

Principal in Charge
Joseph J. Sorci

Project Number:
4166-14

Date Issued:
5-4-2017

Drawn By:
M.W.

Checked By:
J.S.

Revisions:

BID No.
ITB#7-2016/2017

Dowberry PREBLE-RISH

GULF COAST STATE COLLEGE
CAMPUS IMPROVEMENTS
PHASE II

UTILITY PLAN - B

100% CONSTRUCTION DOCUMENTS

Sheet Number
C28

COLLEGIATE DRIVE R/W VARIES

Collegiate Drive

CAUTION COMMUNICATION

CAUTION FORCEMAIN

CAUTION WATER

CAUTION SEWER

CAUTION COMMUNICATION

CAUTION WATER

CAUTION SEWER

CAUTION SEWER

CAUTION WATER

CAUTION COMMUNICATION

CAUTION COMMUNICATION

CAUTION ELECTRIC

COMM. VAULT

Concrete Bleachers

Bill Frazier Field

22+50

22+00

21+00

20+00

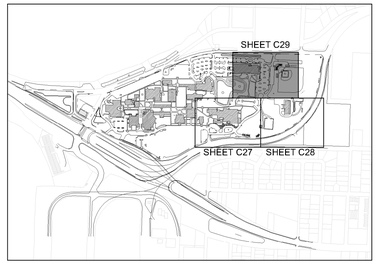
19+00

18+00

17+00

MATCHLINE

MATCHLINE



KEY MAP
N.T.S.

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

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GULF COAST STATE COLLEGE
CAMPUS IMPROVEMENTS
PHASE II

UTILITY PLAN - C

100% CONSTRUCTION DOCUMENTS

Sheet Number
C29

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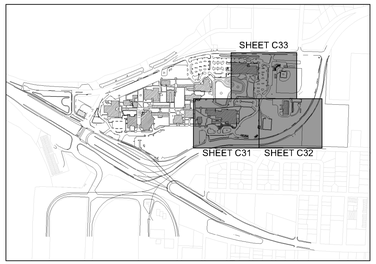

KEY MAP
N.T.S.

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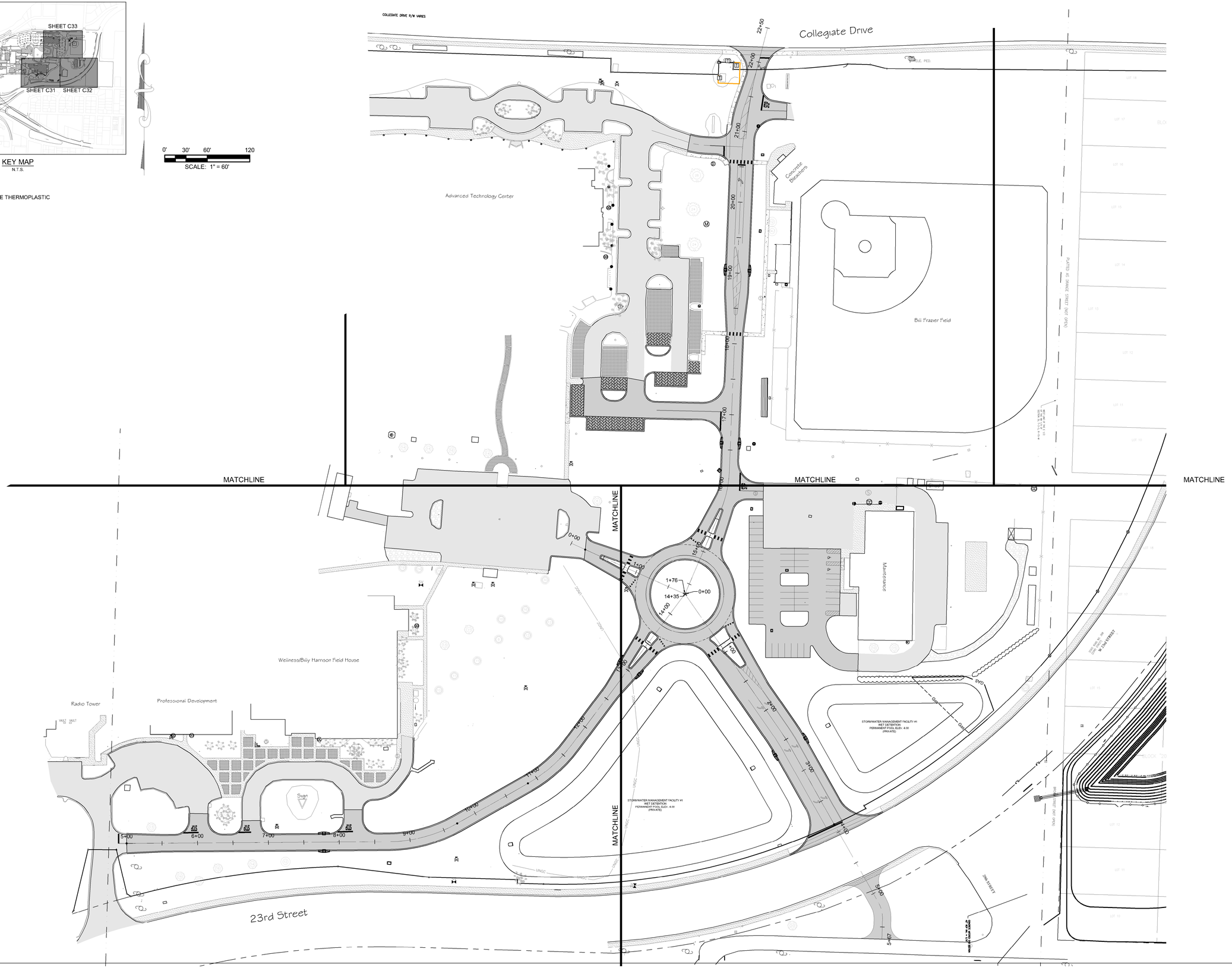
SCALE: 1" = 60'

NOTE:
ALL STRIPING SHALL BE THERMOPLASTIC



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Dowberry PREBLE-RISH

GULF COAST STATE COLLEGE CAMPUS IMPROVEMENTS PHASE II

OVERALL SIGNAGE AND STRIPING PLAN

100% CONSTRUCTION DOCUMENTS

Sheet Number
C30

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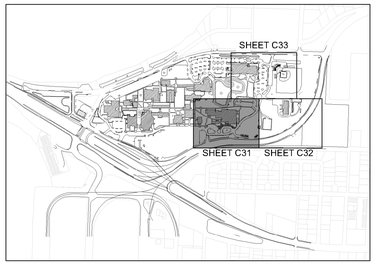

KEY MAP
N.T.S.

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

MATCHLINE

MATCHLINE

MATCHLINE

Wellness/Billy Harrison Field House

Radio Tower

Professional Development

VAULT VAULT

W13-01P 15 MPH

W02-06

W16-17P ROUNDABOUT

0+00

10+00

11+00

12+00

Sign

STOP

R1-1

24" WHITE STOP BAR (TYP)

WHITE STOP MESSAGE (TYP)

STOP

5+00

6+00

7+00

8+00

9+00

DOUBLE YELLOW STRIPING PER FDOT INDEX #17346

SPEED LIMIT 15

R2-1

PROPERTY BOUNDARY

NO IN WATER RECREATION SIGN

STORMWATER FACILITY #1

23rd Street

F.O.

OHU

May 4, 2017 (13:16:48 EST)
K:\34089951 GCSC PARKING IMPROVEMENTS PH II_CIVIL3DFOLDER_PRODUCTION\34089951_SIGNAGE.DWG

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GULF COAST STATE COLLEGE CAMPUS IMPROVEMENTS PHASE II

SIGNAGE AND STRIPING PLAN - A

100% CONSTRUCTION DOCUMENTS

Sheet Number
C31

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

24" WHITE STOP BAR (TYP)

WHITE STOP MESSAGE (TYP)

HANDICAP SPACE STRIPING PER DETAIL

4" WHITE STRIPE, TYP.

COMM. VAULT

4" WHITE STRIPE, TYP.

4" WHITE GORE

Maintenance

PARKING BY PERMIT ONLY

NOTE: SEE SHEET C34 FOR SIGNAGE AND STRIPING WITHIN ROUNDABOUT

1+76

0+00

14+35

W13-01P 15 MPH

W02-06

W16-17P ROUNDABOUT

6" YELLOW STRIPING WITH GORE PER FDOT INDEX #17346

LEFT TURN ARROW PER FDOT INDEX #17346

NO IN WATER RECREATION SIGN

NO IN WATER RECREATION SIGN

STORMWATER MANAGEMENT FACILITY #1
WET DETENTION
PERMANENT POOL ELEV. 4.00
(PRIVATE)

LEFT TURN ARROW PER FDOT INDEX #17346

SPEED LIMIT 15 R2-1

DOUBLE YELLOW STRIPING PER FDOT INDEX #17346

NO IN WATER RECREATION SIGN

NO IN WATER RECREATION SIGN

6" SOLID WHITE STRIPING PER FDOT INDEX #17346

LEFT TURN ARROW PER FDOT INDEX #17346

STORMWATER MANAGEMENT FACILITY #1
WET DETENTION
PERMANENT POOL ELEV. 4.00
(PRIVATE)

STOP R1-1

AT&T

24" WHITE STOP BAR (TYP)

STATE ROAD NO. 368 (2350 FEET)

W 23rd STREET

LOT 18

LOT 17

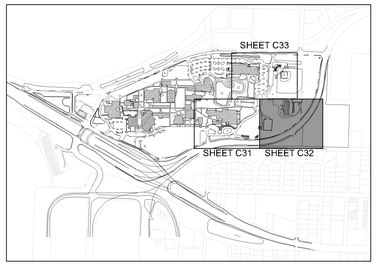
LOT 15

BROWN STREET (NOT OPEN)

20th STREET

0' 15' 30' 60'

SCALE: 1" = 30'



KEY MAP
N.T.S.

May 4, 2017 (13:16:48 EST)
K:\30089951 GCSC PARKING IMPROVEMENTS PH II_CIVIL3DFOLDER_PRODUCTION\30089951_SIGNAGE.DWG

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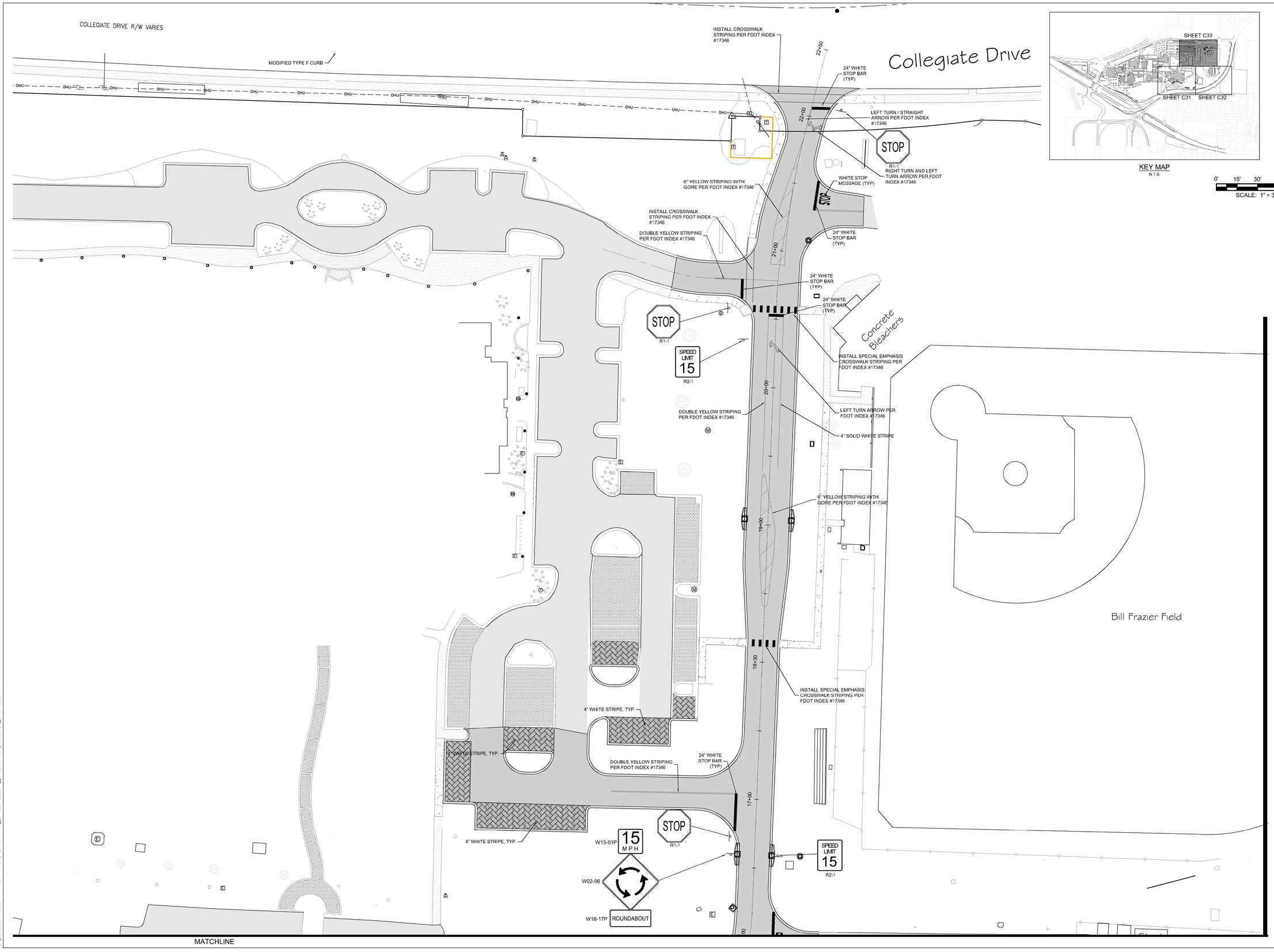
GULF COAST STATE COLLEGE CAMPUS IMPROVEMENTS PHASE II

SIGNAGE AND STRIPING PLAN - B

100% CONSTRUCTION DOCUMENTS

Sheet Number

C32



KEY MAP
N.T.S.

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

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Dowberry PREBLE-RISH

GULF COAST STATE COLLEGE CAMPUS IMPROVEMENTS PHASE II

SIGNAGE AND STRIPING PLAN - C

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Sheet Number
C33

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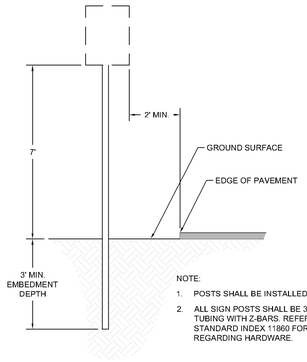
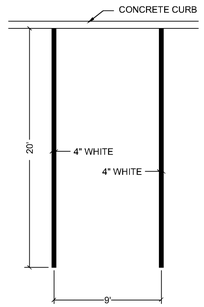


NOTE:

1. POSTS SHALL BE INSTALLED PLUMB.
2. ALL SIGN POSTS SHALL BE 3"Ø ALUMINUM TUBING WITH Z-BARS. REFER TO FDOT STANDARD INDEX 11860 FOR DETAILS REGARDING HARDWARE.

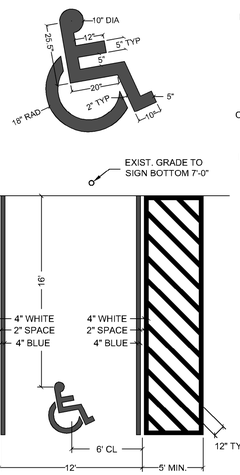
DETAIL SIGNS (TYPICAL)

SCALE: N.T.S.

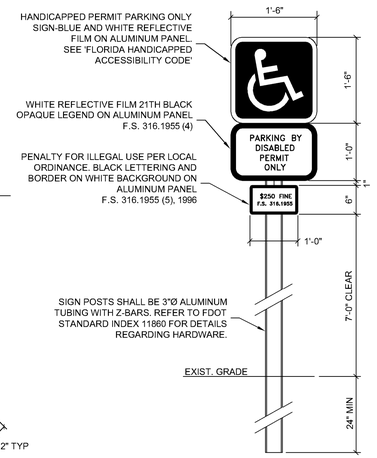


DETAIL TYPICAL PARKING SPACE STRIPING

SCALE: N.T.S.



HANDICAP PARKING STRIPING



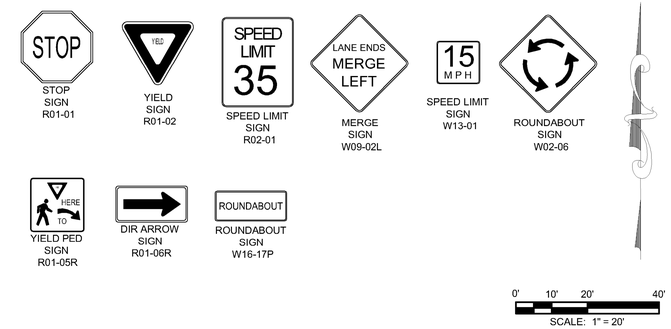
HANDICAP PARKING SIGN

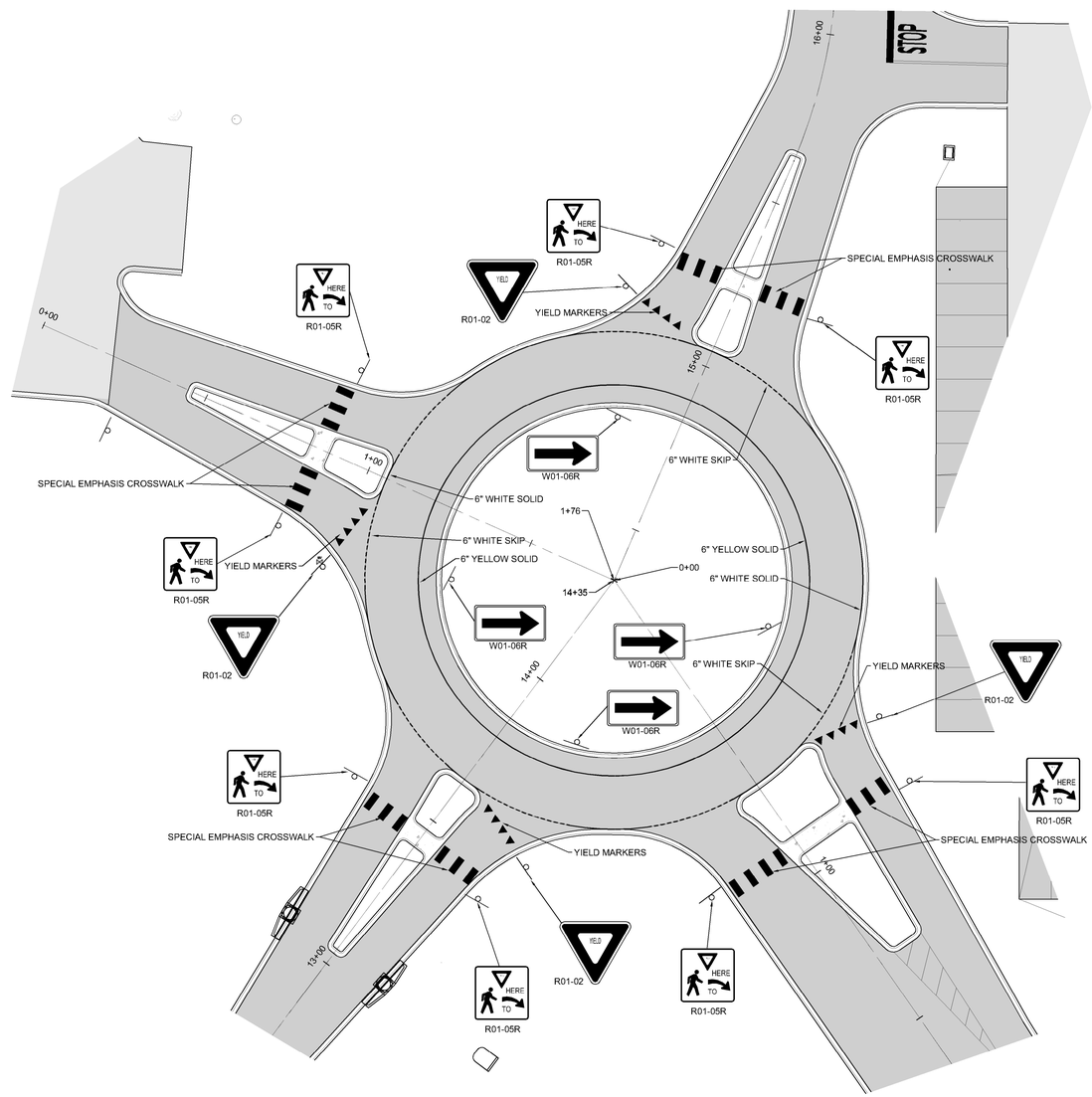
NOTES:

1. * COLOR CONTRAST
   CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND - EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
2. 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.

DETAIL HANDICAP PARKING DETAILS

SCALE: N.T.S.





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Dowberry PREBLE-RISH

GULF COAST STATE COLLEGE
CAMPUS IMPROVEMENTS
PHASE II

ROUND ABOUT
SIGNAGE AND
STRIPING PLAN

100% CONSTRUCTION DOCUMENTS

Sheet Number
C34

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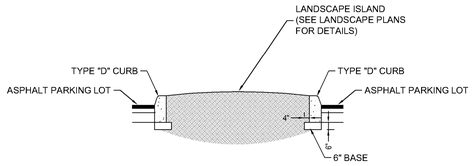
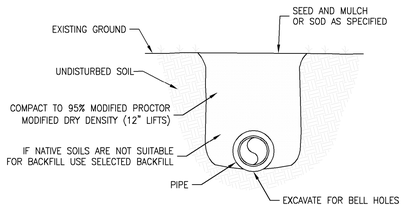


TYPICAL SECTION LANDSCAPE ISLAND

SCALE: N.T.S.



DETAIL STANDARD BEDDING

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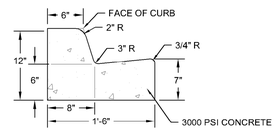

DETAIL MODIFIED TYPE "F" CURB

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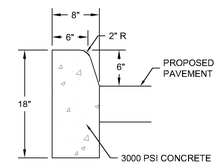

DETAIL TYPE "D" CURB

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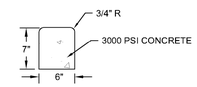
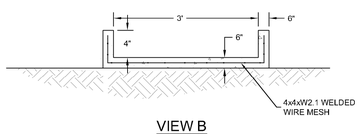
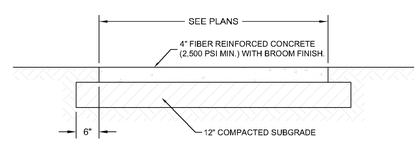


DETAIL CONCRETE RIBBON CURB

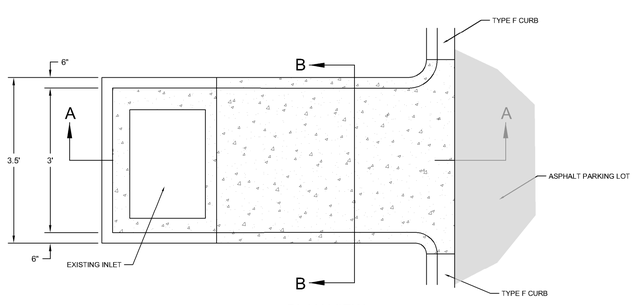
SCALE: N.T.S.



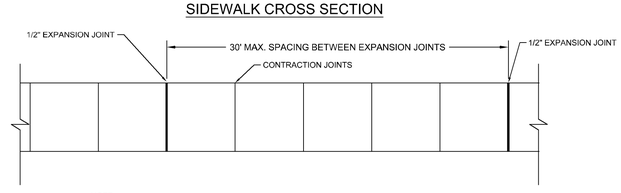
VIEW B



SIDEWALK CROSS SECTION



PLAN VIEW

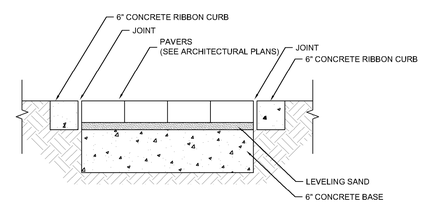


NOTE:

1. ALL SIDEWALKS SHALL BE 4" THICK WITH BROOM FINISH.
2. FOR WALKS 8' AND NARROWER, SPACE TRANSVERSE CONTRACTION JOINTS AT INTERVAL EQUAL TO WIDTH OF WALK OR AS NOTED.
3. 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.
4. EXPANSION JOINT REQUIRED WHERE SHOWN. EXPANSION JOINT TO CONSIST OF 1/2" FIBER BOARD AND GREENSTREAK CAP SEAL #624 OR EQUAL.
5. ALL SIDEWALKS SHALL HAVE A MINIMUM 2% CROSS SLOPE.

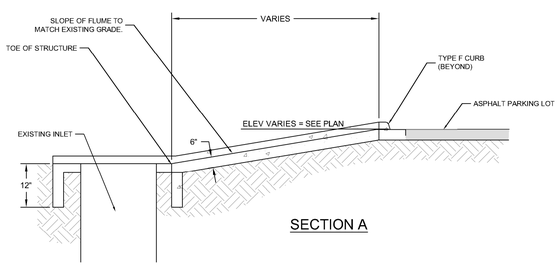
DETAIL SIDEWALK

SCALE: N.T.S.



DETAIL VEHICULAR TRAFFIC PAVER

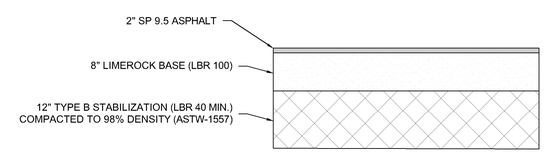
SCALE: N.T.S.



SECTION A

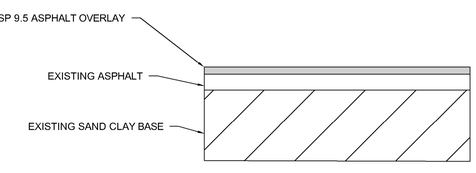
DETAIL CONCRETE FLUME

SCALE: N.T.S.



TYPICAL SECTION FULL DEPTH ASPHALT PAVING

SCALE: N.T.S.



TYPICAL SECTION ASPHALT OVERLAY PAVING

SCALE: N.T.S.

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FLORIDA ARCHITECTS
LICENSE #AA0002730
648 Florida Avenue
Panama City, Fl. 32401
P 850/257-5400

JONATHAN SKLARSKI
FL. P.E. 67361

Principal in Charge
Joseph J. Sorci
Project Number:
4166-14
Date Issued:
5-4-2017
Drawn By:
M.W.
Checked By:
J.S.
Revisions:

BID No.
ITB#7-2016/2017

Dewberry
PREBLE-RISH

GULF COAST STATE COLLEGE
CAMPUS IMPROVEMENTS
PHASE II

MISCELLANEOUS
DETAILS

100% CONSTRUCTION
DOCUMENTS

Sheet Number
D1

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May 4, 2017 (12:21:31 EST)
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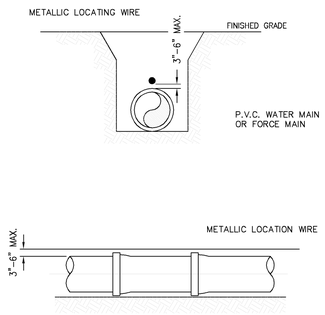
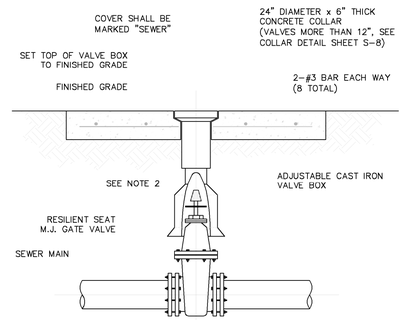


NOTES:
1. PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (10 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE BURIED DIRECTLY ABOVE THE CENTERLINE OF THE PIPE.
2. LOCATING WIRE SHALL TERMINATE AT THE TOP OF EACH VALVE BOX AND BE CAPABLE OF EXTENDING 24" ABOVE TOP OF BOX IN 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



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	SEWER GATE VALVE & BOX DETAIL	S-7

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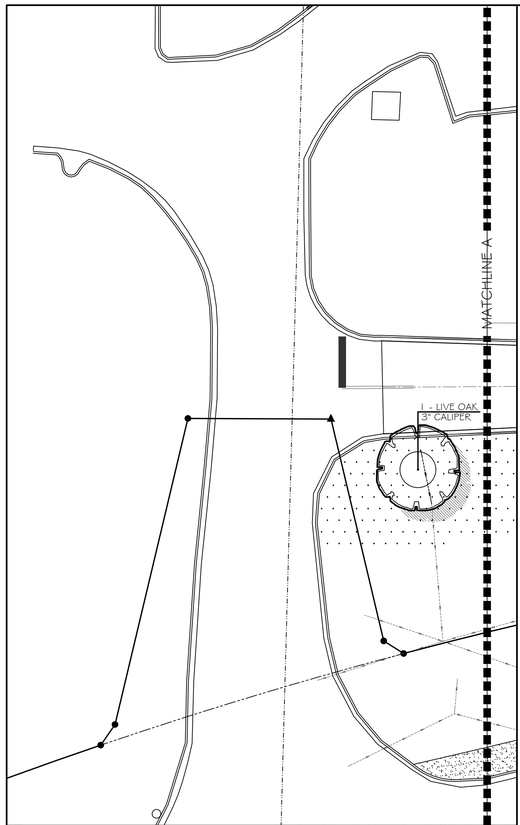
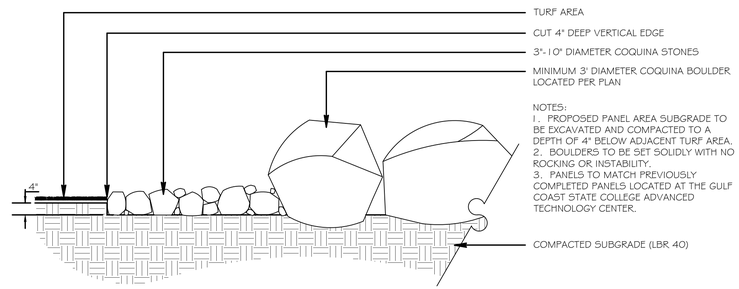
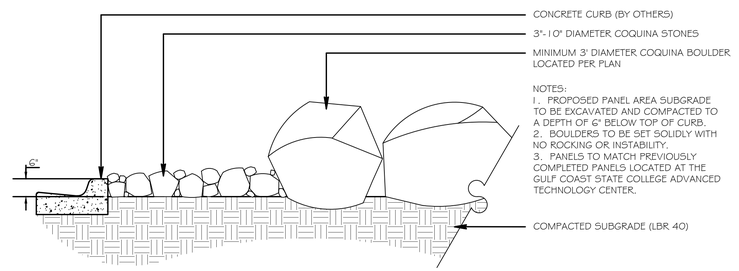




PANEL ABUTTING TURF AREA



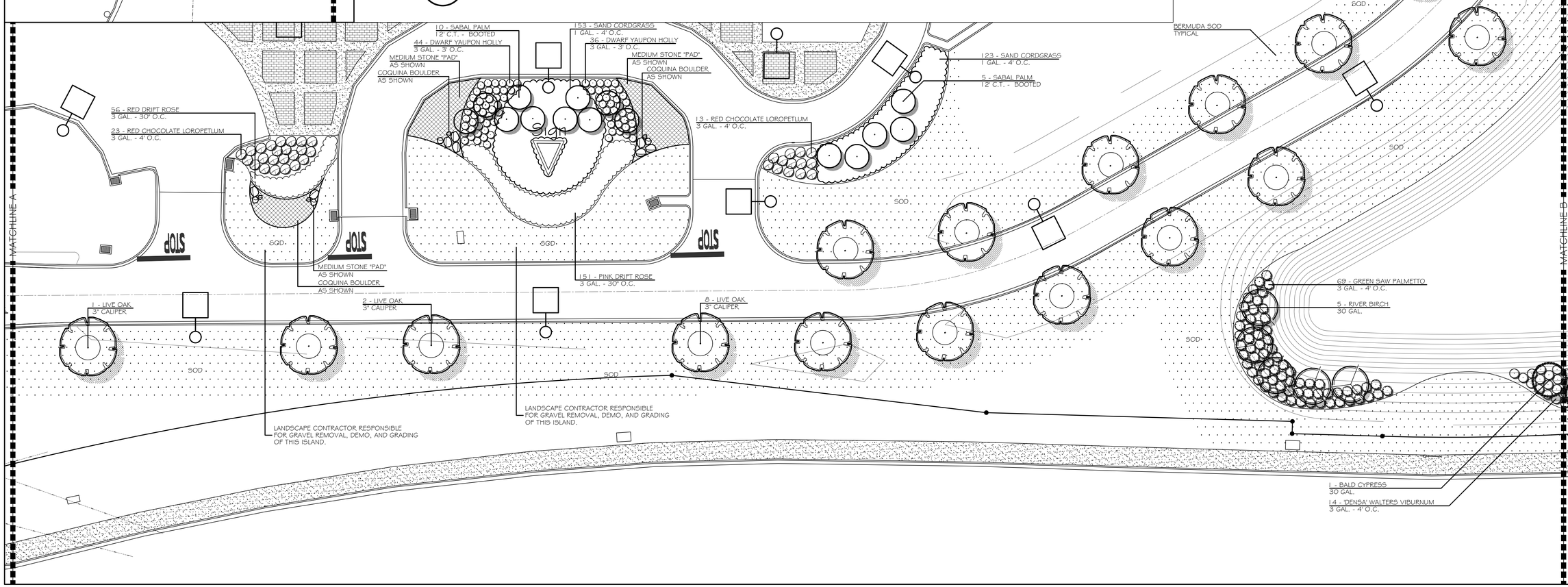
PANEL ABUTTING CURB

1 / L1 MEDIUM STONE PANEL DETAILS

NOT TO SCALE

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.



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PHASE 2
CAMPUS IMPROVEMENTS

Landscape Plan

05/17/17

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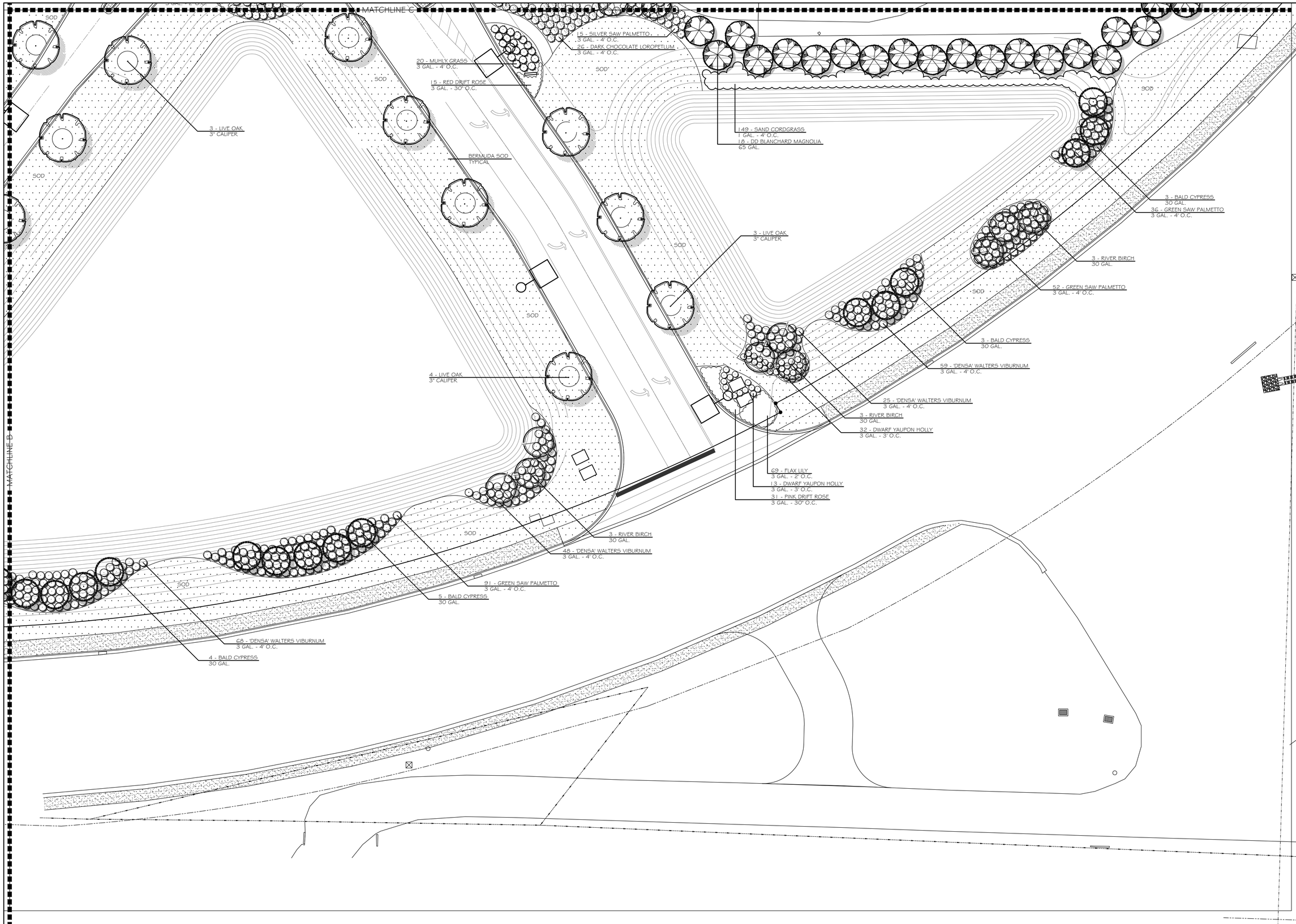

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Sheet Number

L2 of 8

MATCHLINE D

MATCHLINE E

MATCHLINE C

SOD

BERMUDA SOD
TYPICAL

STOP

Shed

Maintenance

MEDIUM STONE "PAD"
AS SHOWN

COQUINA BOULDERS
AS SHOWN

26 - BETTER JOHN BOTTLEBRUSH
3 GAL. - 30" O.C.

3 - 'NATCHEZ' CRAPE MYRTLE
45 GAL. - SINGLE TRUNK

COQUINA BOULDERS
AS SHOWN

MEDIUM STONE "PAD"
AS SHOWN

26 - BETTER JOHN BOTTLEBRUSH
3 GAL. - 30" O.C.

28 - PRINGLES DWARF JAPANESE YEW
3 GAL. - 4' O.C.

49 - FLAX LILY
3 GAL. - 2' O.C.

62 - BLUE PACIFIC JUNIPER
3 GAL. - 30" O.C.

11 - SABAL PALM
10' - 12' C.T. - BOOTED

35 - DWARF YAUPON HOLLY
3 GAL. - 3' O.C.

PROPOSED RETAINING WALL
MANUFACTURER: TREMRON
SERIES: STONEGATE
COLOR: SAND DUNE
HEIGHT (WITH CAP): 18"
LANDSCAPE CONTRACTOR
RESPONSIBLE FOR
BACKFILL

66 - DWARF YAUPON HOLLY
3 GAL. - 3' O.C.

3 - 'MUSKOGEE' CRAPE MYRTLE
45 GAL. - MULTI TRUNK

30 - CARDINAL HOLLY
15 GAL. - 6' O.C.

1 - DRAKE ELM
30 GAL.

83 - DWARF YAUPON HOLLY
3 GAL. - 3' O.C.

32 - PRINGLES DWARF JAPANESE YEW
3 GAL. - 4' O.C.

1 - LIVE OAK
3" CALIPER

13 - DARK CHOCOLATE LOROPETLUM
3 GAL. - 4' O.C.

11 - CARDINAL HOLLY
15 GAL. - 6' O.C.

3 - NATCHEZ CRAPE MYRTLE
45 GAL. - SINGLE TRUNK

10 - SILVER SAW PALMETTO
3 GAL. - 4' O.C.

7 - DD BLANCHARD MAGNOLIA
65 GAL.

91 - SAND CORDGRASS
3 GAL. - 4' O.C.

MEDIUM STONE "PAD"
AS SHOWN

COQUINA BOULDERS
AS SHOWN

21 - DWARF YAUPON HOLLY
3 GAL. - 3' O.C.

43 - PINK DRIFT ROSE
3 GAL. - 3' O.C.

COQUINA BOULDERS
AS SHOWN

93 - DUNE 'SUNFLOWER'
1 GAL. - 2' O.C.

21 - PRINGLES DWARF JAPANESE YEW
3 GAL. - 4' O.C.

65 - BETTER JOHN BOTTLEBRUSH
3 GAL. - 30" O.C.

26 - BETTER JOHN BOTTLEBRUSH
3 GAL. - 30" O.C.

COQUINA BOULDERS
AS SHOWN

MEDIUM STONE "PAD"
AS SHOWN

1 - LIVE OAK
3" CALIPER

26 - FLAX LILY
3 GAL. - 2' O.C.

26 - FLAX LILY
3 GAL. - 2' O.C.

CONCRETE SIDEWALK
TYPICAL WIDTH 4'-0"

47 - GIANT LIRIOPE
1 GAL. - 2' O.C.

172 - GIANT LIRIOPE
1 GAL. - 2' O.C.

1 - DRAKE ELM
30 GAL.

3 - DRAKE ELM
30 GAL.

27 - PRINGLES DWARF JAPANESE YEW
3 GAL. - 4' O.C.

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GULF COAST STATE COLLEGE
PHASE 2
CAMPUS IMPROVEMENTS

Landscape Plan

05/17/17

CONSTRUCTION DOCUMENTS

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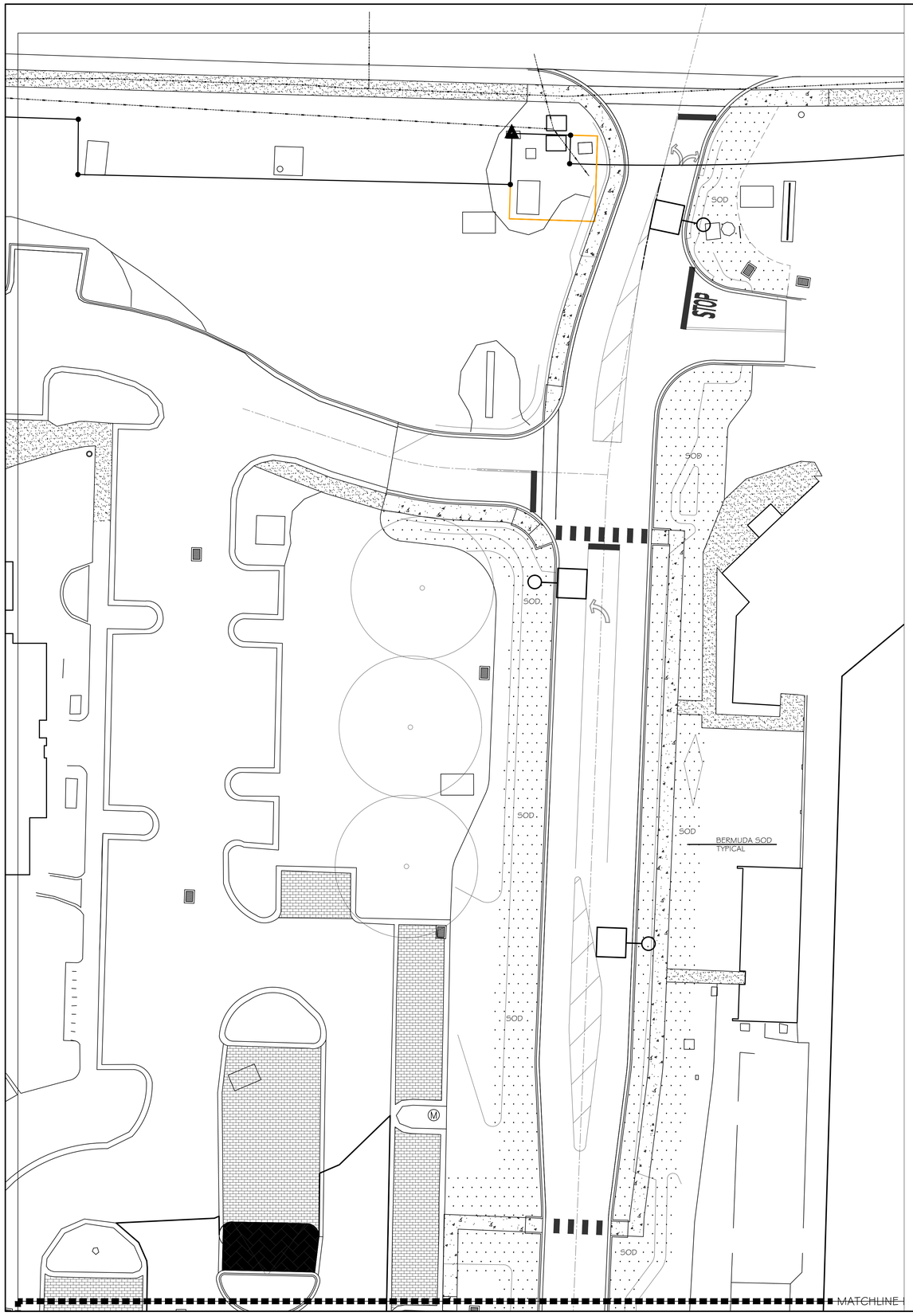
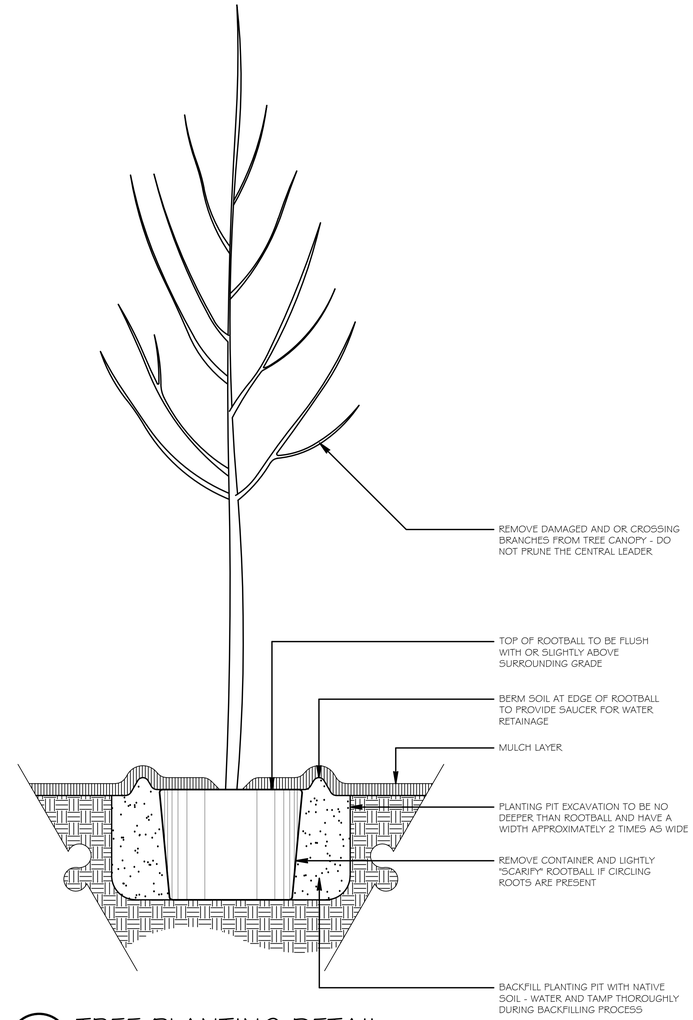
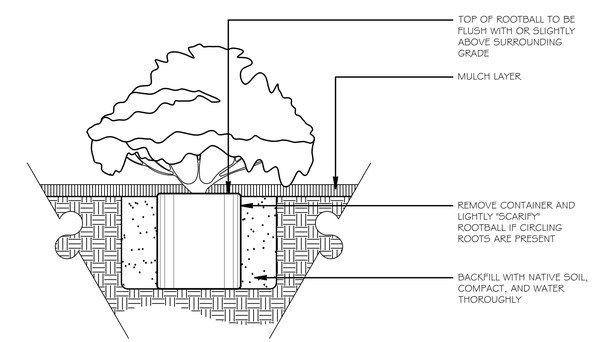




1 / L4 TREE PLANTING DETAIL

NOT TO SCALE



2 / L4 CONTAINER SHRUB PLANTING

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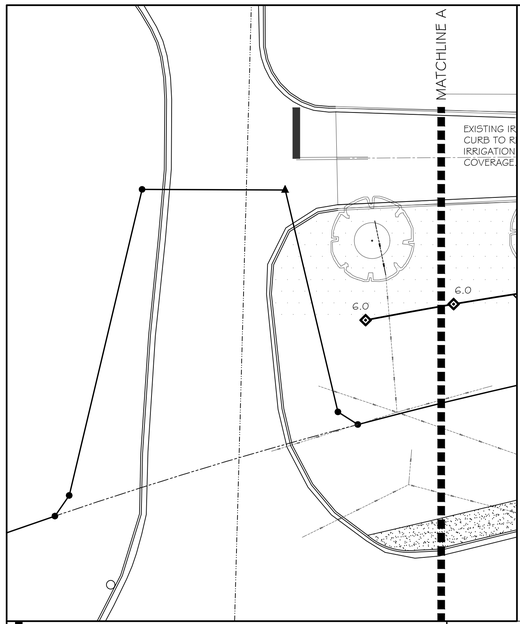


IRRIGATION SCHEDULE

QUANTITY	SYMBOL	SIZE / DESC.	DESCRIPTION	MANUFACTURER
3		8-12	1812-8H	RAINBIRD
12		10-12	1812-10H	RAINBIRD
5		12-12	1812-12H	RAINBIRD
2		15	1804-15Q	RAINBIRD
12		15-12	1812-15Q	RAINBIRD
5		15	1804-15H	RAINBIRD
26		15-12	1812-15H	RAINBIRD
1		15-12	1812-15TQ	RAINBIRD
7		15	1804-15F	RAINBIRD
16		15-12	1812-15F	RAINBIRD
4		15V-12	1812-15VAN	RAINBIRD
18		MP1	MP1000-90 ON 1804 BODY	HUNTER - RAINBIRD
8		MP2	MP2000-90 ON 1804 BODY	HUNTER - RAINBIRD
6		MP55	MP55530 ON 1804 BODY	HUNTER - RAINBIRD
13		1.5	5004-PC W/ 1.5 NOZZLE	RAINBIRD

IRRIGATION SCHEDULE

QUANTITY	SYMBOL	SIZE / DESC.	DESCRIPTION	MANUFACTURER
3		1.5-12	5012-PC W/ 1.5 NOZZLE	RAINBIRD
9		2.0	5004-PC W/ 2.0 NOZZLE	RAINBIRD
3		2.0-12	5012-PC W/ 2.0 NOZZLE	RAINBIRD
1		2.5	5004-PC W/ 2.5 NOZZLE	RAINBIRD
134		3.0	5004-PC W/ 3.0 NOZZLE	RAINBIRD
9		3.0-12	5012-PC W/ 3.0 NOZZLE	RAINBIRD
36		4.0	5004-PC W/ 4.0 NOZZLE	RAINBIRD
14		5.0	5004-PC W/ 5.0 NOZZLE	RAINBIRD
26		6.0	5004-PC W/ 6.0 NOZZLE	RAINBIRD
9		6.0-12	5012-PC W/ 6.0 NOZZLE	RAINBIRD
3		8.0	5004-PC W/ 8.0 NOZZLE	RAINBIRD
12		2"	2" CONTROL VALVE 200-PGA	RAINBIRD
1	IV	-	3" ISOLATION VALVE	SPEARS

GENERAL IRRIGATION NOTES:

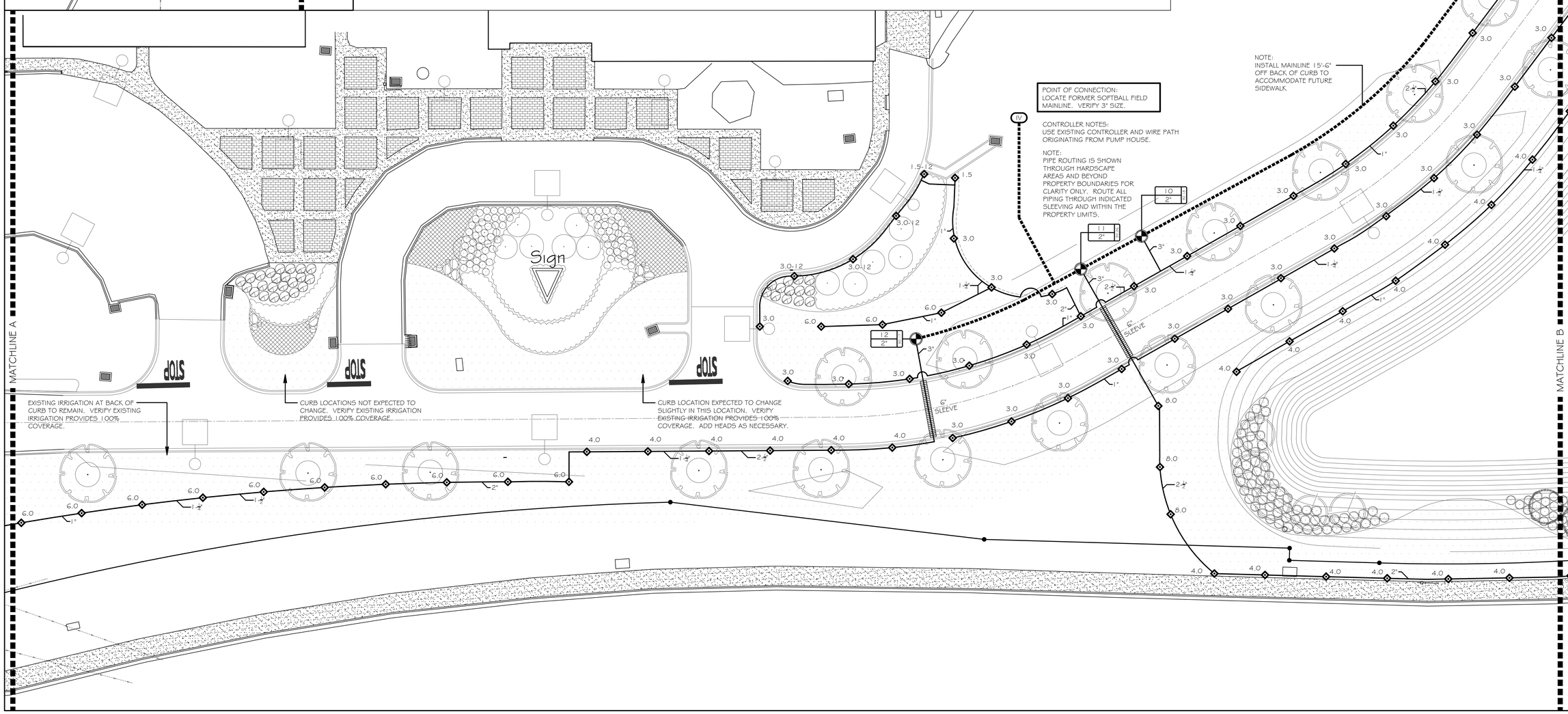
1. ALL UTILITIES TO BE LOCATED BEFORE COMMENCEMENT OF CONSTRUCTION. APPLY NECESSARY PROTECTIVE MEASURES TO REDUCE POSSIBILITY OF DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION.
2. ALL CONTROL WIRE TO BE 14 GAUGE INSTALL ONE (1) RED WIRE TO EACH CONTROL VALVE, ONE (1) COMMON WHITE TO LOOP CONTINUOUSLY 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: EXISTING PUMP
LOCATE AS SHOWN ON DRAWING
DESIGN VOLUME: 120 GPM
DESIGN PRESSURE: 65 PSI

PIPING LEGEND

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



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Irrigation Plan

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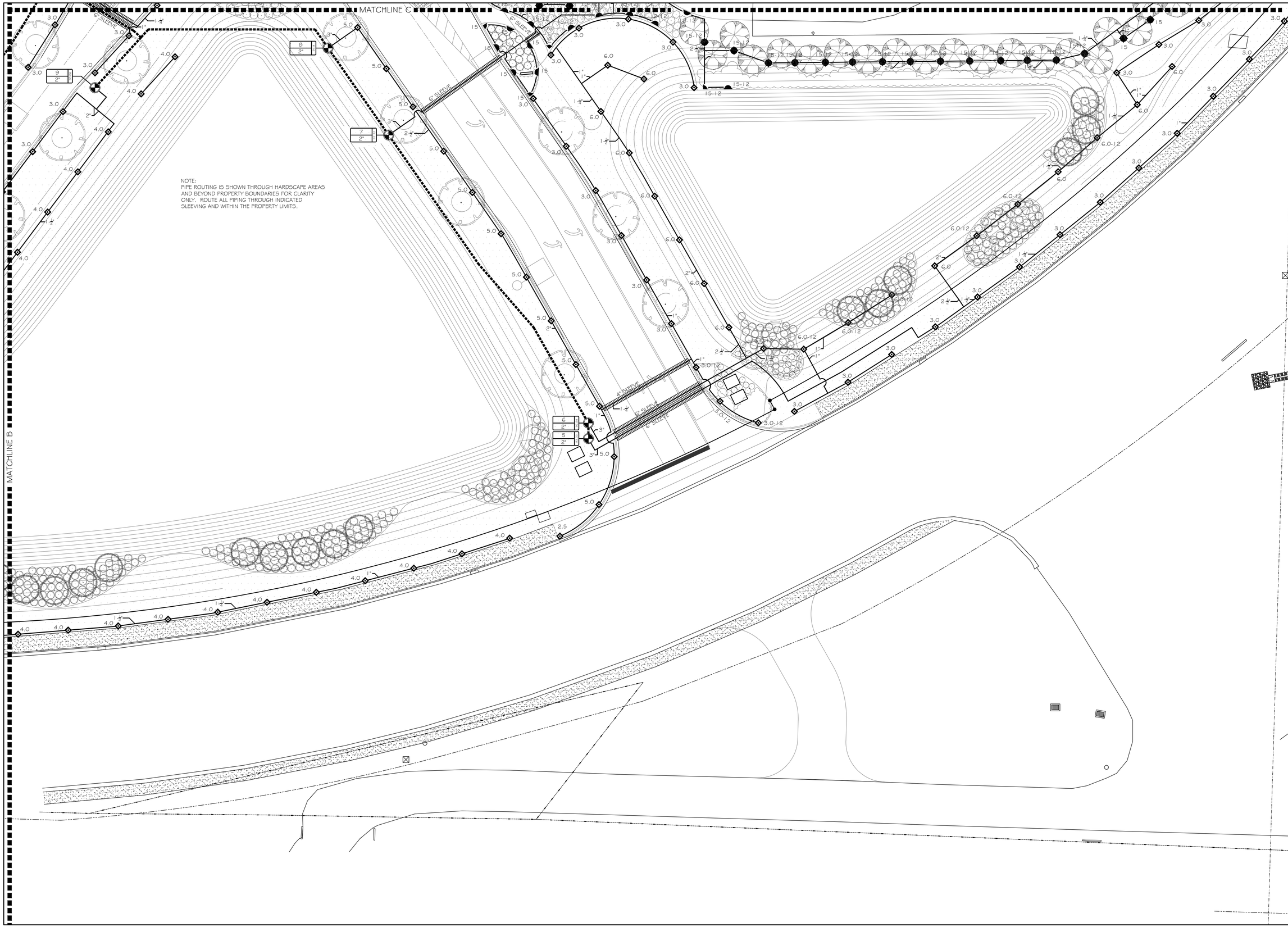

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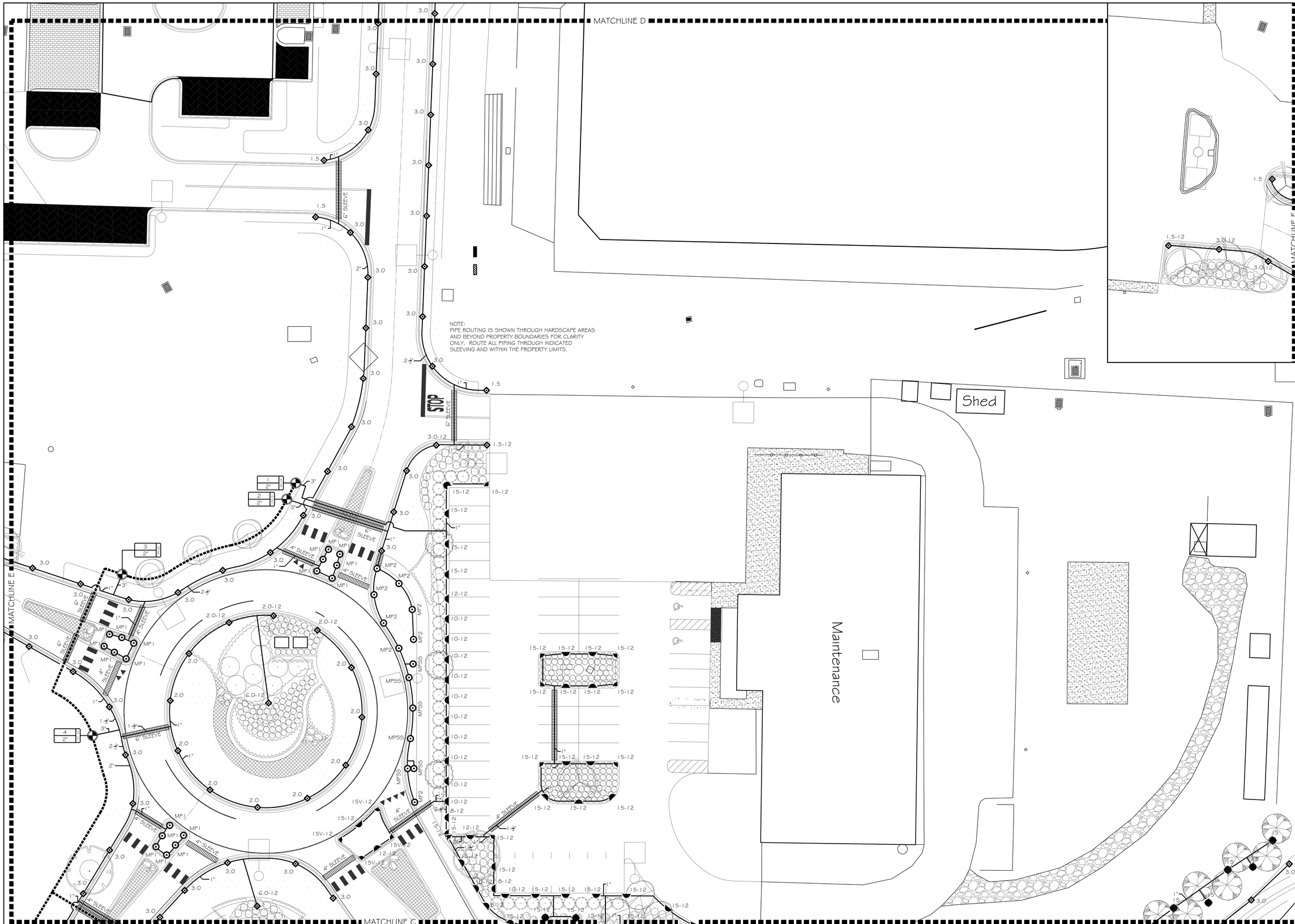

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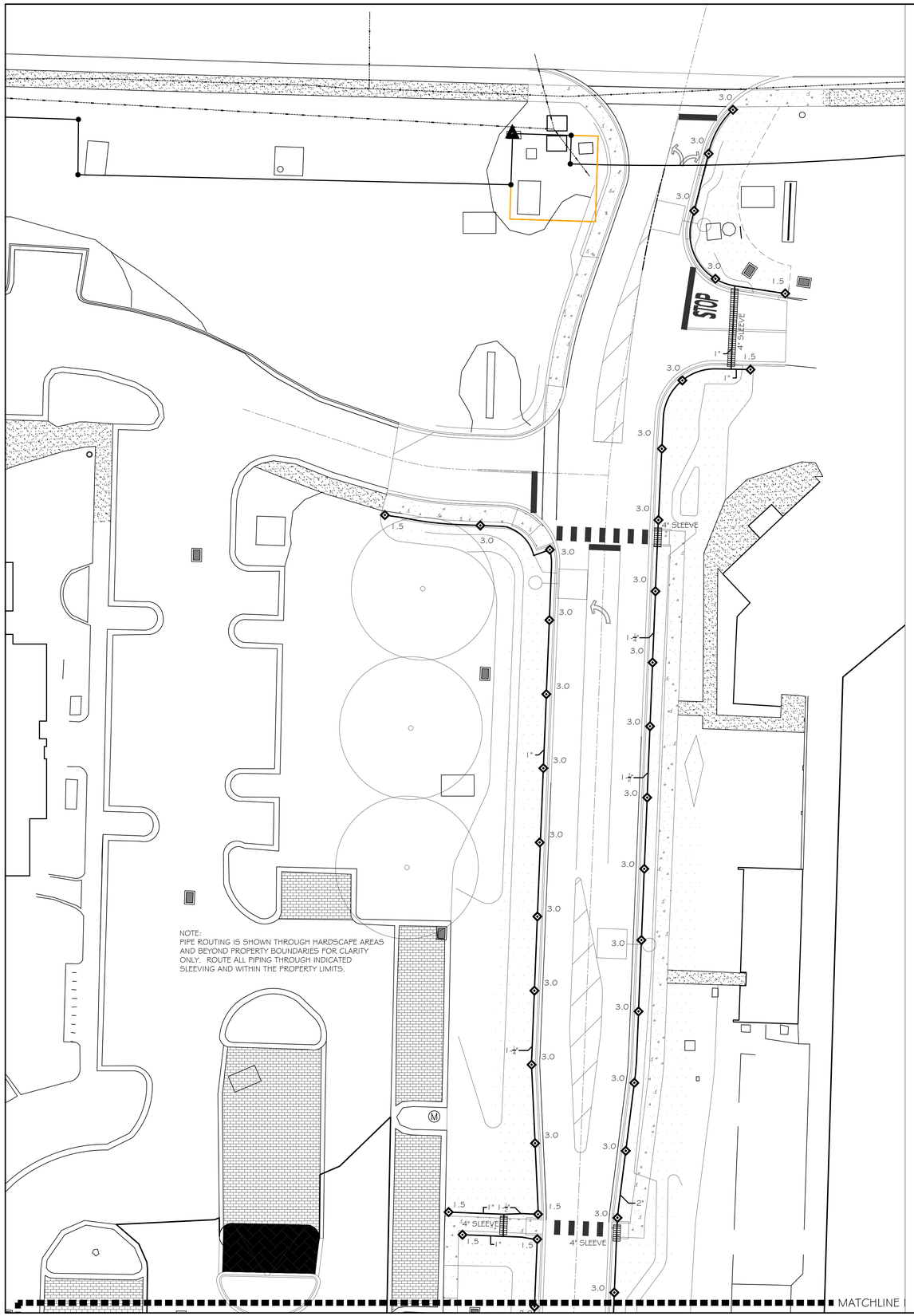
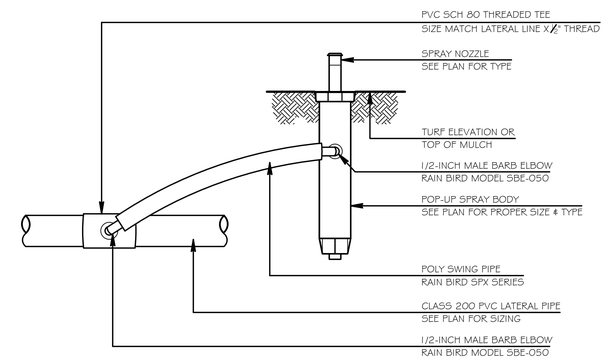
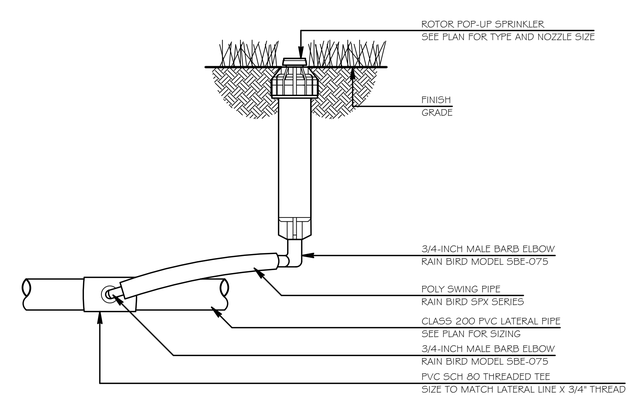




1 / L8 SPRAYHEAD INSTALLATION

NOT TO SCALE



2 / L8 POP-UP ROTOR INSTALLATION

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GULF COAST STATE COLLEGE
PHASE 2
CAMPUS IMPROVEMENTS

Irrigation Plan

05/17/17

CONSTRUCTION DOCUMENTS

Sheet Number

L8 of 8

ELECTRICAL LEGEND

LIGHTING

NEW SINGLE LED FIXTURE (1 LED FIXTURE) WITH 30' POLE AND ROUND BASE; INSTALL A TWIST LOCK LIGHTING CONTROLLER IN A PHOTOCELL RECEPTACLE AT THE TOP OF THE FIXTURE. REFER TO REQUIREMENTS IN THE LIGHTING FIXTURE SCHEDULE. INSTALL CONTROLLER PER THE MANUFACTURERS RECOMMENDATIONS.

NEW DOUBLE LED FIXTURE (TWO LED FIXTURES) WITH 30' POLE AND ROUND BASE; INSTALL A TWIST LOCK LIGHTING CONTROLLER IN A PHOTOCELL RECEPTACLE AT THE TOP OF EACH FIXTURE. REFER TO REQUIREMENTS IN THE LIGHTING FIXTURE SCHEDULE. INSTALL CONTROLLER PER THE MANUFACTURERS RECOMMENDATIONS.

BRANCH CIRCUITING

RUN CONCEALED UNDER FLOOR OR IN GRADE

RUN CONCEALED ABOVE CEILING

LA-1 HOMERUN TO PANEL. LETTERS AND NUMERALS INDICATED PANEL AND CIRCUIT NUMBER.

PANELS AND POWER

ELECTRICAL PANELBOARD

NON-FUSIBLE DISCONNECT SWITCH; XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING

MISCELLANEOUS

A.F.F.	ABOVE FINISHED FLOOR	C/L	CENTERLINE
ATS	AUTOMATIC TRANSFER SWITCH	C	CONDUIT
WP	WEATHERPROOF	GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	MT	MOUNT
GCSC	GULF COAST STATE COLLEGE		

ELECTRICAL GENERAL NOTES

1. ENTIRE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ACCEPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES.
2. ALL ELECTRICAL WORK AND MATERIALS USED IN THIS PROJECT SHALL BE NEW, UNDERWRITERS' LABORITORIES (UL) LISTED AND LABELED, AND SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
3. WHERE CONFLICTS OCCUR ON ELECTRICAL DRAWINGS BETWEEN DRAWINGS, SPECIFICATIONS AND CODES, THE MOST STRINGENT REQUIREMENT THAT APPLIES SHALL BE ADHERED TO.
4. NEW POLE SHALL BE FURNISHED WITH A SURGE PROTECTION DEVICE INSTALLED IN THE HANDHOLE NEAR THE BASE OF THE POLE.
5. ALL WIRING SHALL BE COPPER AND INSTALLED IN CONDUIT.
6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH THE CIVIL AND LANDSCAPE DRAWINGS. UTILIZE COMMON TRENCHES FOR INSTALLATION OF CONDUITS WHERE POSSIBLE. PRIOR TO INSTALLATION OF CONDUIT, THE ELECTRICAL CONTRACTOR WILL BE REQUIRED TO PLAN ALL CONDUIT ROUTING WITH THE OTHER CONTRACTORS PERFORMING SITE WORK. SUBMIT A RECORD OF THIS COORDINATION TO THE ARCHITECT PRIOR TO STARTING SITE WORK. IF ONE CONTRACTOR IS PERFORMING ALL CONDUIT SITE WORK, THEN A QUALIFIED ELECTRICIAN WILL BE REQUIRED TO BE ON SITE APPROVING THE CONDUIT INSTALLATION/ROUTING PRIOR TO COVERING THE CONDUITS.

ALL CONDUIT UNDERGROUND WORK SHALL COMPLY WITH THE GENERAL CONDITIONS BELOW:

COMPOSITION – THE CONDUITS SHALL BE CORROSION RESISTANT AND SHALL BE MADE OF EPC-80-PVC (SCHEDULE 80) IAW NEMA TC-2. THE CONDUITS SHALL BE APPROPRIATELY LABELED INDICATING THE COMPOSITION MATERIAL. CONDUITS SHALL HAVE A SLEEVE OR BELL END TYPE COUPLING AND SHALL BE WATERTIGHT WHEN ASSEMBLED.

INSTALLATION – INSTALLATION OF UNDERGROUND CONDUITS SHALL BE A MINIMUM OF 24" BELOW GRADE. INSTALL IN COMMONS TRENCH WHERE SHOWN ON THE CIVIL PLANS. IN MAINTENANCE HOLES WITH KNOCKOUTS, CONDUITS SHALL START AT THE BOTTOM KNOCKOUT, ALLOWING FOR UPWARD EXPANSION IN THE MAINTENANCE HOLES. THE CONTRACTOR SHALL PROVIDE OTHER PROTECTIVE MEASURES, CONCRETE CAP, ETC., IN THOSE AREAS WHERE THE MINIMUM GROUND COVER CANNOT BE ACHIEVED.

BENDS AND SEALING.
THE SUM OF BENDS IN ALL DIRECTIONS SHALL NOT EXCEED A TOTAL OF 180 DEGREES. CONDUITS SHALL HAVE BELL ENDS AND ENTER A MAINTENANCE HOLES PERPENDICULAR TO THE SURFACE OF THE WALL THROUGH WHICH IT IS ENTERING. ALL CONDUITS ENTERING MAINTENANCE HOLES MUST BE SEALED. UNIVERSAL CONDUIT PLUGS OR REMOVABLE PUTTY SEALANTS MAY BE USED. UPON COMPLETION OF CONDUIT SECTIONS, A TEST MANDREL ¼" (6.4MM) SMALLER THAN THE INSIDE DIAMETER OF THE CONDUIT SHALL BE PULLED THROUGH TWO DIAGONALLY OPPOSITE CONDUITS TO ENSURE PROPER ALIGNMENT. IN ADDITION, ALL CONDUITS SHALL BE CLEARED OF LOOSE MATERIALS SUCH AS CONCRETE, MUD, DIRT, STONES, ETC.

PULL ROPE
ALL VACANT CONDUITS SHALL BE PROVIDED WITH A WATERPROOF CORROSION RESISTANT MULE TAPE FOR FUTURE CABLE INSTALLATION. THE PULL ROPE /MULE TAPE SHALL EXTEND INTO THE MAINTENANCE HOLE AND BE SECURED TO THE CABLE RACK OR PULLING IRON, ETC.

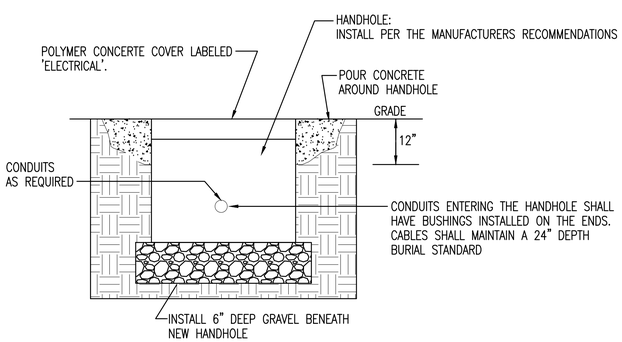
SPACERS AND TRACER WIRE
ALONG THE LENGTH OF THE CONDUIT RUN, IF THE CONDUITS ARE INSTALLED BY TRENCHING, SPACERS SHALL BE PLACED AT AN INTERVAL OF FOUR (4) SPACERS PER 20 FEET AND CABLE WARNING TAPE SHALL BE BURIED ONE (1) FOOT BELOW THE SURFACE AND SHALL FOLLOW THE DUCT ROUTE. THE TAPE SHALL BE A MINIMUM OF THREE INCHES WIDE AND ORANGE IN COLOR WITH THE APPROPRIATE WARNING MESSAGE. AT LEAST ONE CONDUIT SHALL HAVE TRACER WIRE OR BE OTHERWISE LOCATABLE FROM THE SURFACE.

UTILITY SEPARATION
COMMUNICATIONS CONDUITS AND CABLE SHALL MAINTAIN A MINIMUM SEPARATION OF 12 INCHES FROM ALL TRADES.

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER AND CATALOG No.	LAMPS No.	LAMPS TYPE	MOUNTING	REMARKS
PL	GARDCO #ECF-1-3-215LA-641A-NW-UNV (FINISH) POLE: VALMONT #R290860106-D1		LED	POLE ARM MOUNT 33' ABOVE GRADE	SINGLE-PIECE DIE-CAST ALUMINUM HOUSING, POWDER COAT FINISH, 4000K, UNIVERSAL VOLTAGE, PROVIDE WITH WATTSTOPPER NWTL-111, ROUND TAPERED ALUMINUM POLE
PL1	GARDCO #ECF-1-2-215LA-641A-NW-UNV (FINISH) POLE: VALMONT #R290860106-D1		LED	POLE ARM MOUNT 33' ABOVE GRADE	SINGLE-PIECE DIE-CAST ALUMINUM HOUSING, POWDER COAT FINISH, 4000K, UNIVERSAL VOLTAGE, PROVIDE WITH WATTSTOPPER NWTL-111, ROUND TAPERED ALUMINUM POLE
PL2	GARDCO #ECF-2-4-215LA-641A-NW-UNV (FINISH) POLE: VALMONT #R290860106-D2		LED	POLE ARM MOUNT 33' ABOVE GRADE	SINGLE-PIECE DIE-CAST ALUMINUM HOUSING, POWDER COAT FINISH, 4000K, UNIVERSAL VOLTAGE, PROVIDE TWO FIXTURES MOUNTED AT 180°, PROVIDE WITH WATTSTOPPER NWTL-111, ROUND TAPERED ALUMINUM POLE.
PL3S	GARDCO ECF-1-3-75LA-4853-NW-UNV (FINISH) POLE: VALMONT 1108-30-40-4-T-E-D1-DDB		LED	POLE ARM MOUNT 12' ABOVE GRADE	SINGLE-PIECE DIE-CAST ALUMINUM HOUSING, POWDER COAT FINISH, 4000K, UNIVERSAL VOLTAGE, PROVIDE WITH WATTSTOPPER NWTL-111, ROUND TAPERED EMBEDDED DIRECT BURIED ALUMINUM POLE
PL4S	GARDCO ECF-1-4-75LA-4853-NW-UNV (FINISH) POLE: VALMONT 1108-30-40-4-T-E-D1-DDB		LED	POLE ARM MOUNT 12' ABOVE GRADE	SINGLE-PIECE DIE-CAST ALUMINUM HOUSING, POWDER COAT FINISH, 4000K, UNIVERSAL VOLTAGE, PROVIDE WITH WATTSTOPPER NWTL-111, ROUND TAPERED EMBEDDED DIRECT BURIED ALUMINUM POLE

* ALL FINISHES AND FIXTURE COLOR TEMPERATURE SHALL BE DIRECTED BY ARCHITECT/OWNER PRIOR TO ORDERING FIXTURES
** EACH FIXTURE REQUIRES 0-10 VOLT DIMMING CAPABILITY
*** EACH FIXTURE SHALL HAVE A PHOTOCELL RECEPTACLE WITH TWO DIMMING AND TWO AUXILIARY CONNECTIONS.



ELECTRICAL MAINTENANCE/HANDHOLE DETAIL

NOT TO SCALE

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GULF COAST STATE COLLEGE
PHASE 2
CAMPUS IMPROVEMENTS

ELECTRICAL LEGEND
FIXTURE SCHEDULE
AND NOTES

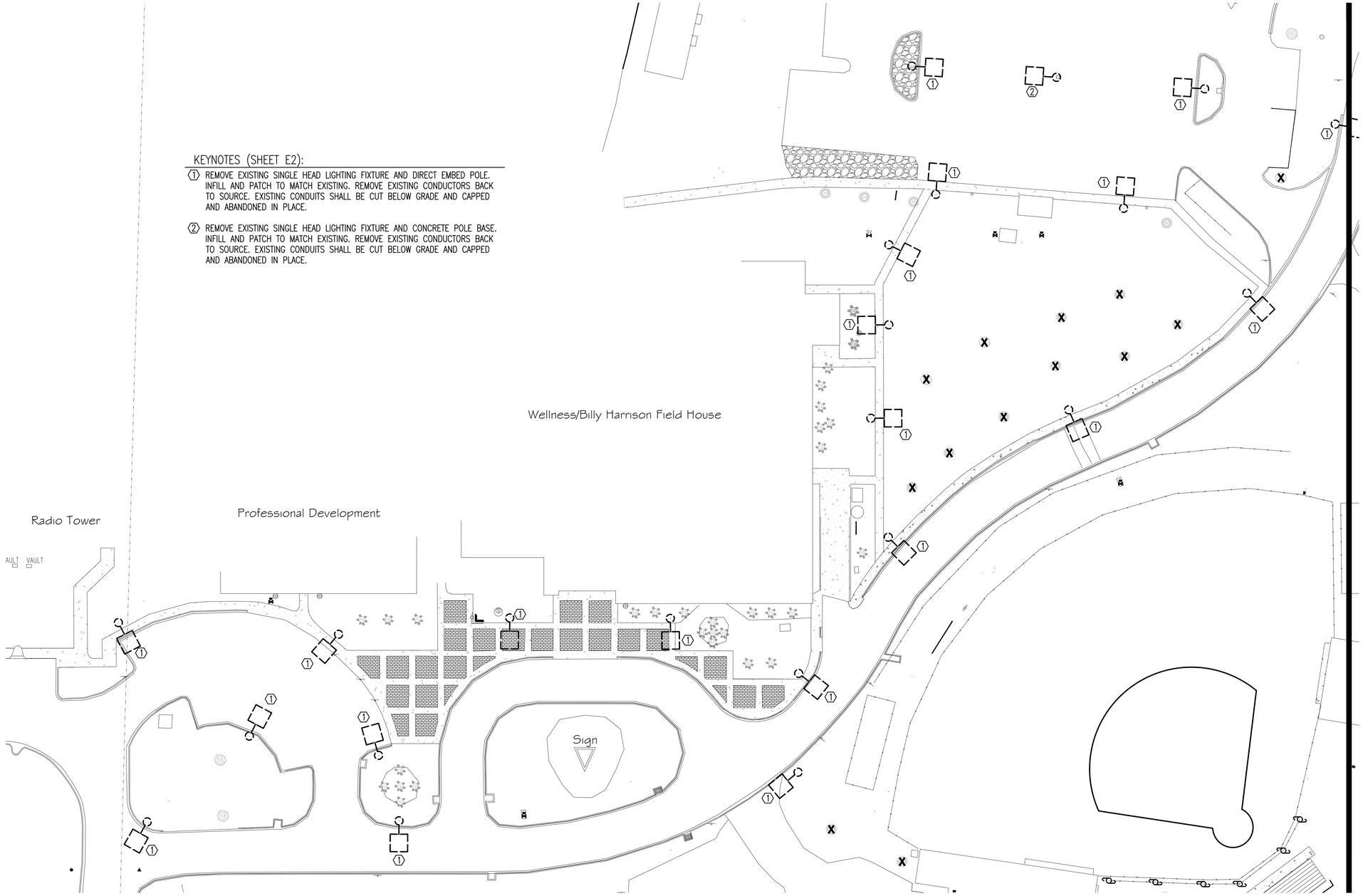
CONSTRUCTION DOCUMENTS

Sheet Number
E1

KEYNOTES (SHEET E2):

1. REMOVE EXISTING SINGLE HEAD LIGHTING FIXTURE AND DIRECT EMBED POLE. INFILL AND PATCH TO MATCH EXISTING. REMOVE EXISTING CONDUCTORS BACK TO SOURCE. EXISTING CONDUITS SHALL BE CUT BELOW GRADE AND CAPPED AND ABANDONED IN PLACE.

2. REMOVE EXISTING SINGLE HEAD LIGHTING FIXTURE AND CONCRETE POLE BASE. INFILL AND PATCH TO MATCH EXISTING. REMOVE EXISTING CONDUCTORS BACK TO SOURCE. EXISTING CONDUITS SHALL BE CUT BELOW GRADE AND CAPPED AND ABANDONED IN PLACE.

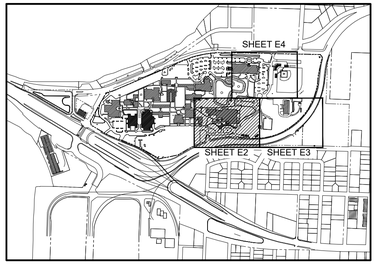


DEMOLITION PLAN AREA 'A'

SCALE: 1" = 30'

0' 15' 30' 60'

SCALE: 1" = 30'



KEY MAP
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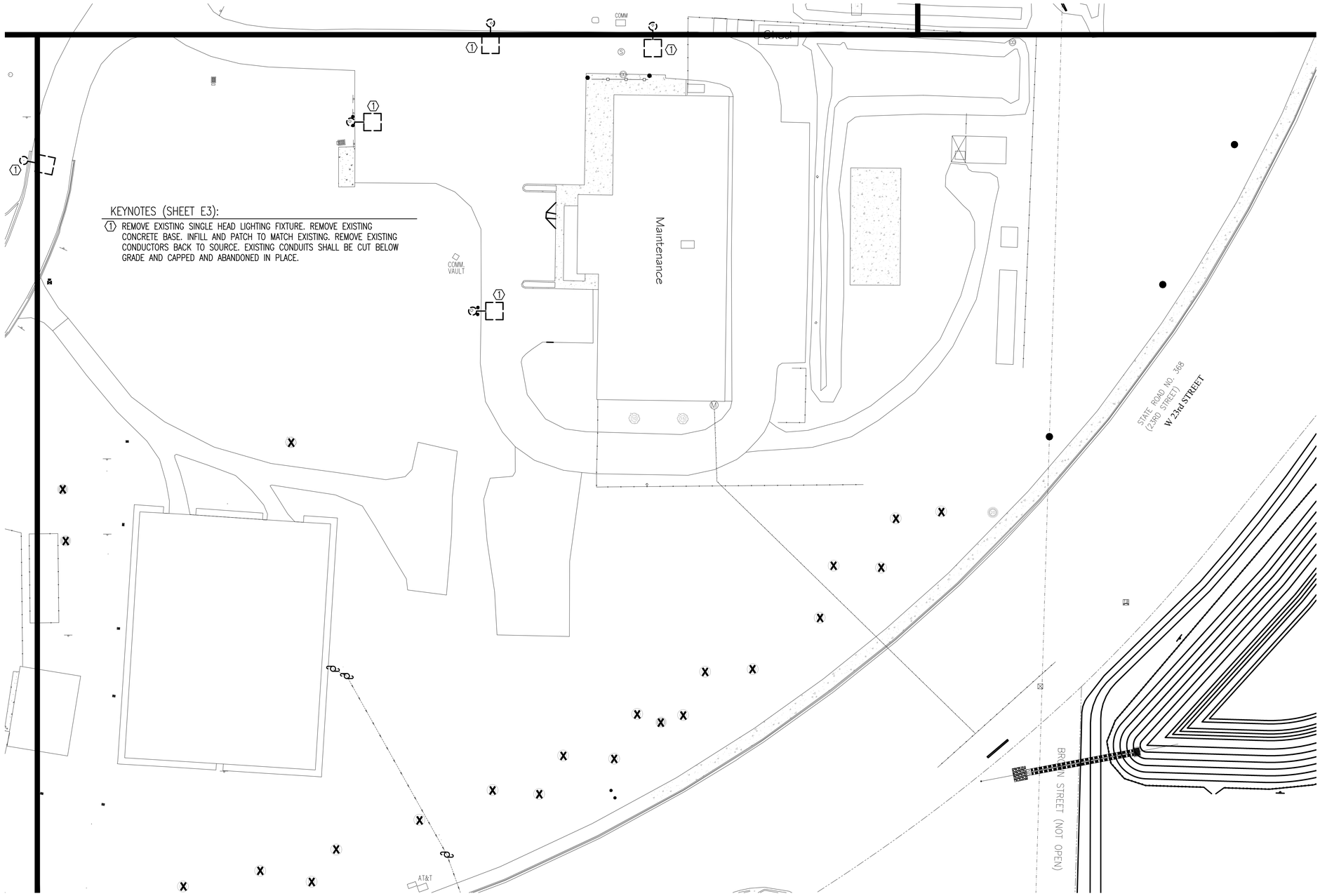
GULF COAST STATE COLLEGE
PHASE 2
CAMPUS IMPROVEMENTS

DEMOLITION PLAN
AREA 'A'

CONSTRUCTION DOCUMENTS

Sheet Number
E2



KEYNOTES (SHEET E3):

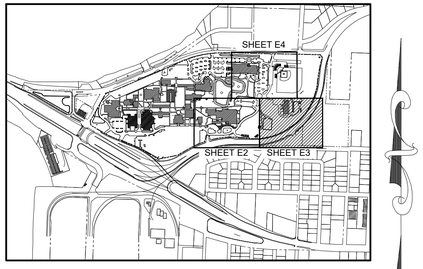
1. REMOVE EXISTING SINGLE HEAD LIGHTING FIXTURE. REMOVE EXISTING CONCRETE BASE. INFILL AND PATCH TO MATCH EXISTING. REMOVE EXISTING CONDUCTORS BACK TO SOURCE. EXISTING CONDUITS SHALL BE CUT BELOW GRADE AND CAPPED AND ABANDONED IN PLACE.

DEMOLITION PLAN AREA 'B'

SCALE: 1" = 30'

0' 15' 30' 60'

SCALE: 1" = 30'



KEY MAP

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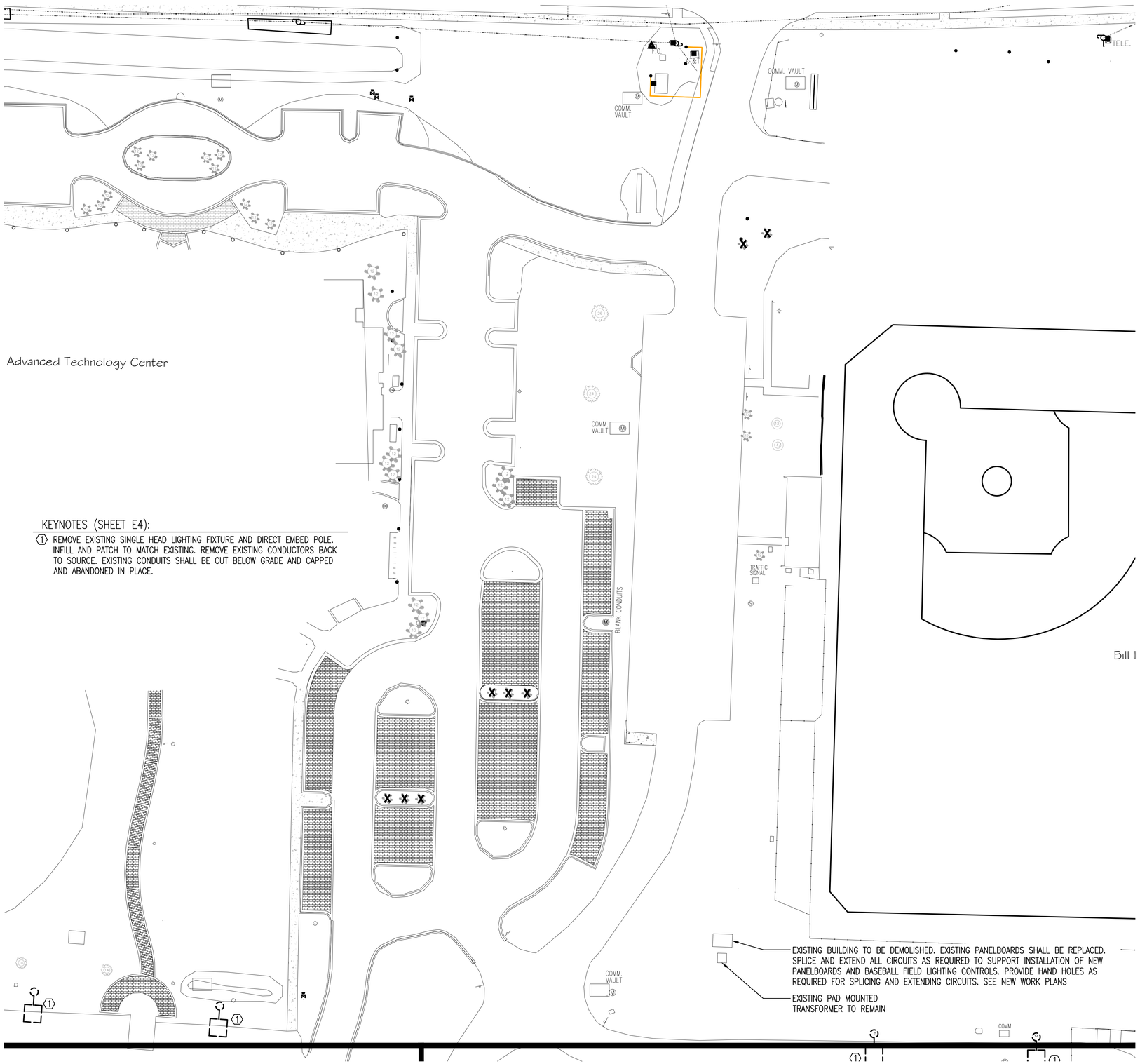
GULF COAST STATE COLLEGE
PHASE 2
CAMPUS IMPROVEMENTS

DEMOLITION PLAN
AREA 'B'

CONSTRUCTION DOCUMENTS

Sheet Number
E3

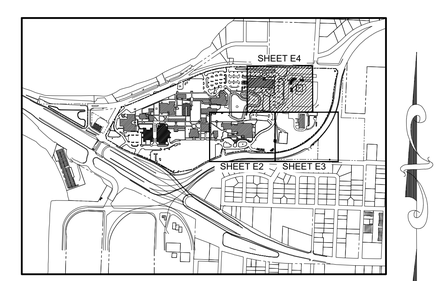


KEYNOTES (SHEET E4):

1. REMOVE EXISTING SINGLE HEAD LIGHTING FIXTURE AND DIRECT EMBED POLE. INFILL AND PATCH TO MATCH EXISTING. REMOVE EXISTING CONDUCTORS BACK TO SOURCE. EXISTING CONDUITS SHALL BE CUT BELOW GRADE AND CAPPED AND ABANDONED IN PLACE.

DEMOLITION PLAN AREA 'C'

SCALE: 1" = 30'



KEY MAP
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GULF COAST STATE COLLEGE
PHASE 2
CAMPUS IMPROVEMENTS

DEMOLITION PLAN
AREA 'C'

CONSTRUCTION DOCUMENTS

Sheet Number
E4

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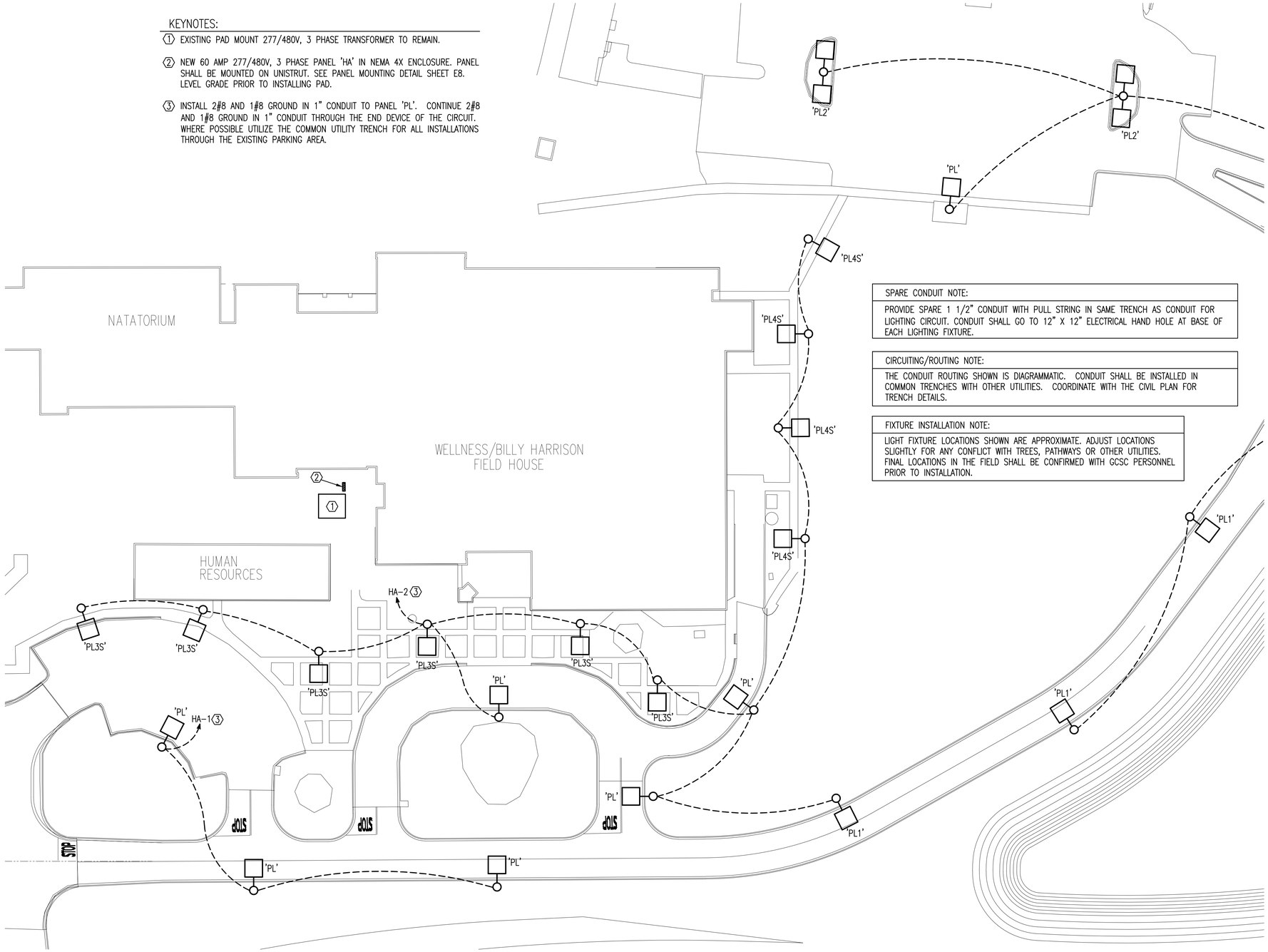
KEYNOTES:

1. EXISTING PAD MOUNT 277/480V, 3 PHASE TRANSFORMER TO REMAIN.
2. NEW 60 AMP 277/480V, 3 PHASE PANEL 'HA' IN NEMA 4X ENCLOSURE. PANEL SHALL BE MOUNTED ON UNISTRUT. SEE PANEL MOUNTING DETAIL SHEET E8. LEVEL GRADE PRIOR TO INSTALLING PAD.
3. INSTALL 2#8 AND 1#8 GROUND IN 1" CONDUIT TO PANEL 'PL'. CONTINUE 2#8 AND 1#8 GROUND IN 1" CONDUIT THROUGH THE END DEVICE OF THE CIRCUIT. WHERE POSSIBLE UTILIZE THE COMMON UTILITY TRENCH FOR ALL INSTALLATIONS THROUGH THE EXISTING PARKING AREA.



SPARE CONDUIT NOTE:

PROVIDE SPARE 1 1/2" CONDUIT WITH PULL STRING IN SAME TRENCH AS CONDUIT FOR LIGHTING CIRCUIT. CONDUIT SHALL GO TO 12" X 12" ELECTRICAL HAND HOLE AT BASE OF EACH LIGHTING FIXTURE.

CIRCUITING/ROUTING NOTE:

THE CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. CONDUIT SHALL BE INSTALLED IN COMMON TRENCHES WITH OTHER UTILITIES. COORDINATE WITH THE CIVIL PLAN FOR TRENCH DETAILS.

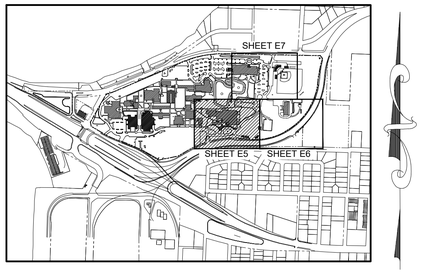
FIXTURE INSTALLATION NOTE:

LIGHT FIXTURE LOCATIONS SHOWN ARE APPROXIMATE. ADJUST LOCATIONS SLIGHTLY FOR ANY CONFLICT WITH TREES, PATHWAYS OR OTHER UTILITIES. FINAL LOCATIONS IN THE FIELD SHALL BE CONFIRMED WITH GCSC PERSONNEL PRIOR TO INSTALLATION.

NEW WORK PLAN AREA 'A'

SCALE: 1" = 30'

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



KEY MAP
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GULF COAST STATE COLLEGE
PHASE 2
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NEW WORK PLAN
AREA 'A'

CONSTRUCTION DOCUMENTS

Sheet Number
E5

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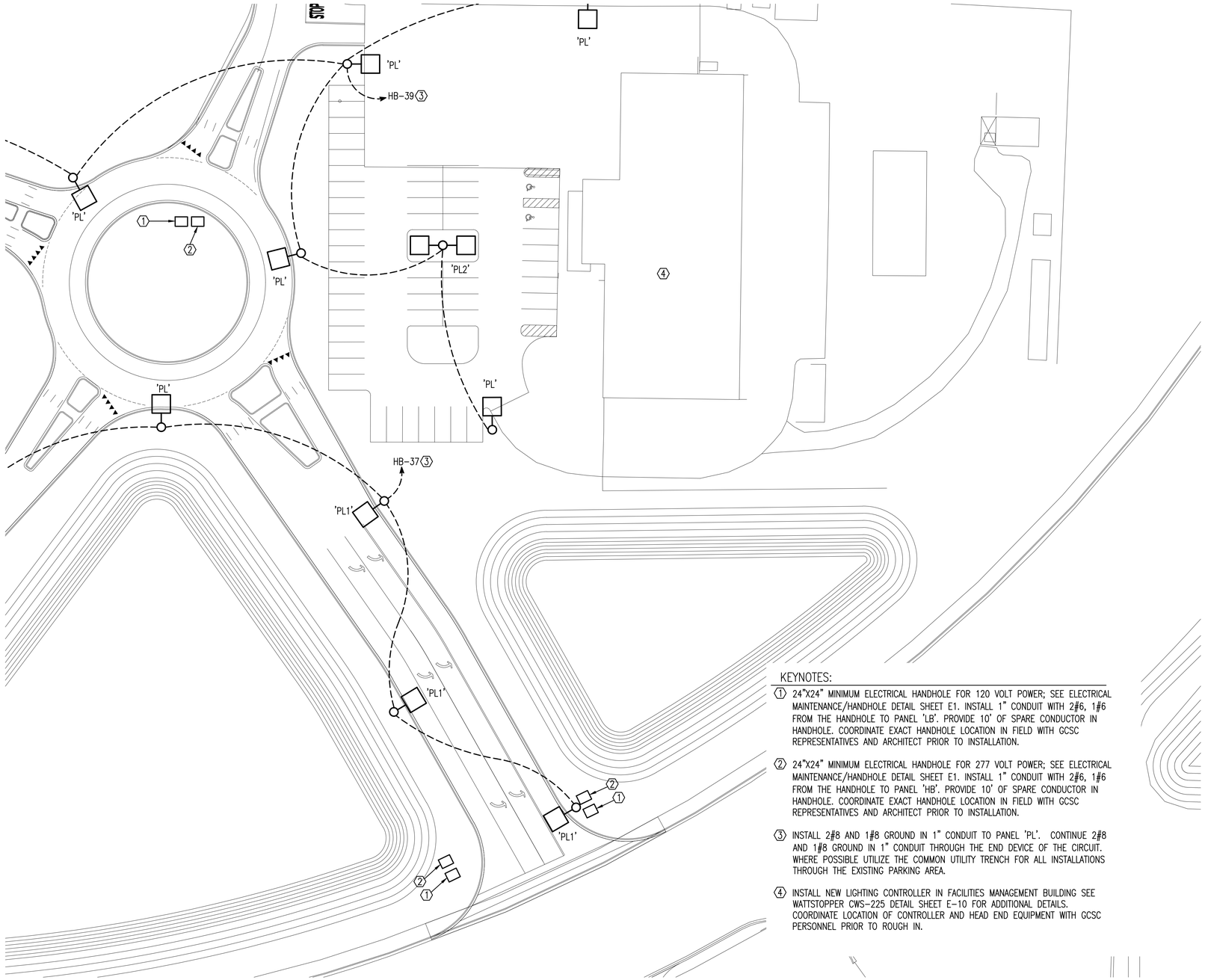


KEYNOTES:

1. 24"X24" MINIMUM ELECTRICAL HANDHOLE FOR 120 VOLT POWER; SEE ELECTRICAL MAINTENANCE/HANDHOLE DETAIL SHEET E1. INSTALL 1" CONDUIT WITH 2#6, 1#6 FROM THE HANDHOLE TO PANEL 'LB'. PROVIDE 10' OF SPARE CONDUCTOR IN HANDHOLE. COORDINATE EXACT HANDHOLE LOCATION IN FIELD WITH GCSC REPRESENTATIVES AND ARCHITECT PRIOR TO INSTALLATION.

2. 24"X24" MINIMUM ELECTRICAL HANDHOLE FOR 277 VOLT POWER; SEE ELECTRICAL MAINTENANCE/HANDHOLE DETAIL SHEET E1. INSTALL 1" CONDUIT WITH 2#6, 1#6 FROM THE HANDHOLE TO PANEL 'HB'. PROVIDE 10' OF SPARE CONDUCTOR IN HANDHOLE. COORDINATE EXACT HANDHOLE LOCATION IN FIELD WITH GCSC REPRESENTATIVES AND ARCHITECT PRIOR TO INSTALLATION.

3. INSTALL 2#8 AND 1#8 GROUND IN 1" CONDUIT TO PANEL 'PL'. CONTINUE 2#8 AND 1#8 GROUND IN 1" CONDUIT THROUGH THE END DEVICE OF THE CIRCUIT. WHERE POSSIBLE UTILIZE THE COMMON UTILITY TRENCH FOR ALL INSTALLATIONS THROUGH THE EXISTING PARKING AREA.

4. INSTALL NEW LIGHTING CONTROLLER IN FACILITIES MANAGEMENT BUILDING SEE WATTSTOPPER CWS-225 DETAIL SHEET E-10 FOR ADDITIONAL DETAILS. COORDINATE LOCATION OF CONTROLLER AND HEAD END EQUIPMENT WITH GCSC PERSONNEL PRIOR TO ROUGH IN.

FIXTURE INSTALLATION NOTE:

LIGHT FIXTURE LOCATIONS SHOWN ARE APPROXIMATE. ADJUST LOCATIONS SLIGHTLY FOR ANY CONFLICT WITH TREES, PATHWAYS OR OTHER UTILITIES. FINAL LOCATIONS IN THE FIELD SHALL BE CONFIRMED WITH GCSC PERSONNEL PRIOR TO INSTALLATION.

NEW WORK PLAN AREA 'B'

SCALE: 1" = 30'

0' 15' 30' 60'

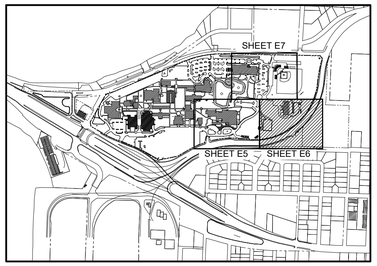
SCALE: 1" = 30'

SPARE CONDUIT NOTE:

PROVIDE SPARE 1 1/2" CONDUIT WITH PULL STRING IN SAME TRENCH AS CONDUIT FOR LIGHTING CIRCUIT. CONDUIT SHALL GO TO 12" X 12" ELECTRICAL HAND HOLE AT BASE OF EACH LIGHTING FIXTURE.

CIRCUITING/ROUTING NOTE:

THE CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. CONDUIT SHALL BE INSTALLED IN COMMON TRENCHES WITH OTHER UTILITIES. COORDINATE WITH THE CIVIL PLAN FOR TRENCH DETAILS.



KEY MAP
N.T.S.

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DAVID M. BAGWELL
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No. 59251
STATE OF FLORIDA
PROFESSIONAL ENGINEER
5/18/17

Principal In Charge
David M. Bagwell
Project Number:
4166-2
Date Issued:
5-18-2017
Drawn By:
D.C.
Checked By:
D.B.
Revisions:

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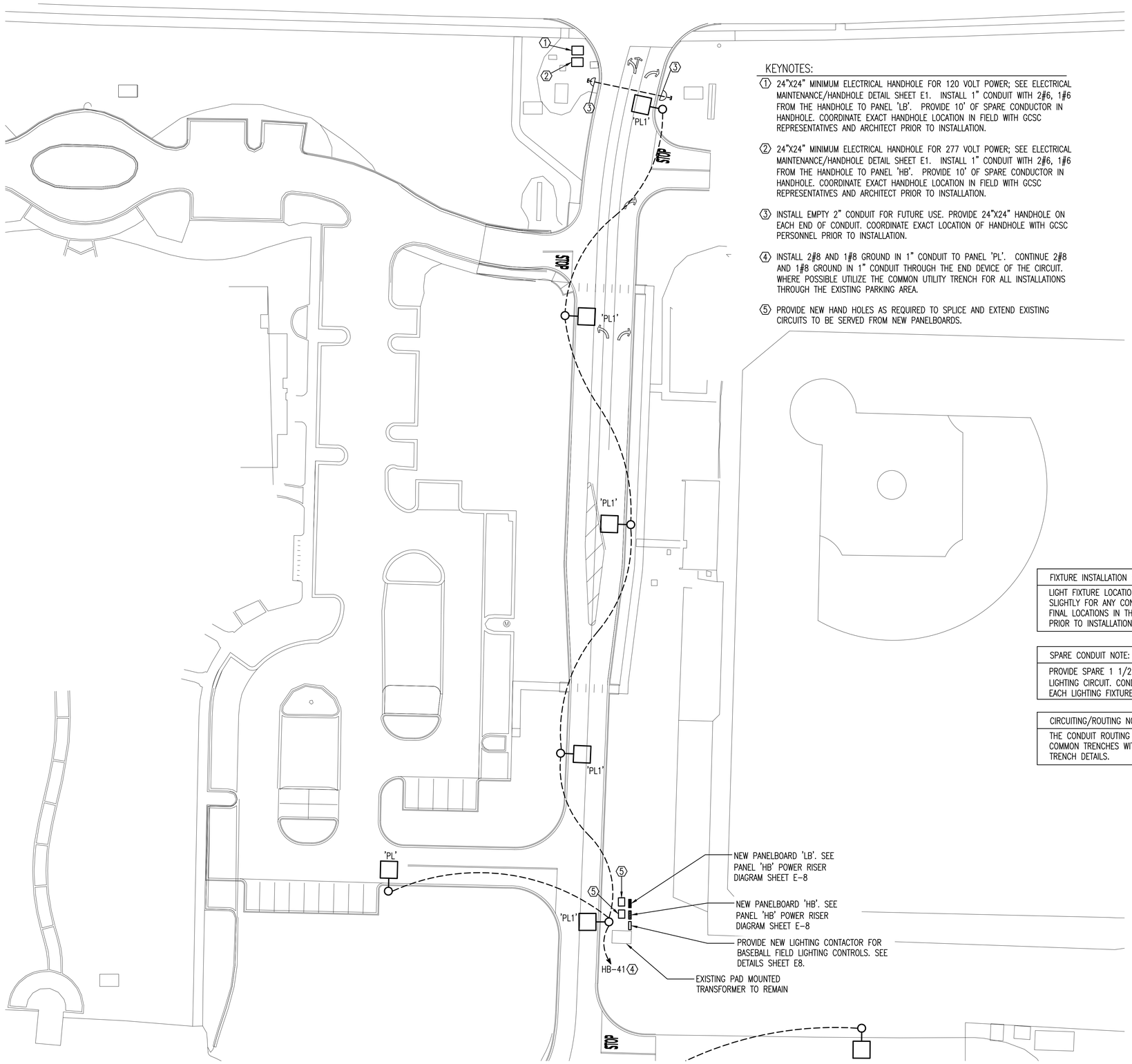
FL PE No. 59251
Job Number: 15-019

GULF COAST STATE COLLEGE
PHASE 2
CAMPUS IMPROVEMENTS

NEW WORK PLAN
AREA 'B'

CONSTRUCTION DOCUMENTS

Sheet Number
E6



NEW WORK PLAN AREA 'C'

SCALE: 1" = 30'

0' 15' 30' 60'

SCALE: 1" = 30'

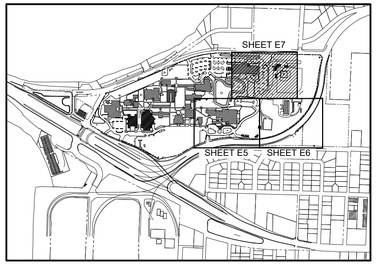
KEYNOTES:

1. 24"X24" MINIMUM ELECTRICAL HANDHOLE FOR 120 VOLT POWER; SEE ELECTRICAL MAINTENANCE/HANDHOLE DETAIL SHEET E1. INSTALL 1" CONDUIT WITH 2#6, 1#6 FROM THE HANDHOLE TO PANEL 'LB'. PROVIDE 10' OF SPARE CONDUCTOR IN HANDHOLE. COORDINATE EXACT HANDHOLE LOCATION IN FIELD WITH GCSC REPRESENTATIVES AND ARCHITECT PRIOR TO INSTALLATION.
2. 24"X24" MINIMUM ELECTRICAL HANDHOLE FOR 277 VOLT POWER; SEE ELECTRICAL MAINTENANCE/HANDHOLE DETAIL SHEET E1. INSTALL 1" CONDUIT WITH 2#6, 1#6 FROM THE HANDHOLE TO PANEL 'HB'. PROVIDE 10' OF SPARE CONDUCTOR IN HANDHOLE. COORDINATE EXACT HANDHOLE LOCATION IN FIELD WITH GCSC REPRESENTATIVES AND ARCHITECT PRIOR TO INSTALLATION.
3. INSTALL EMPTY 2" CONDUIT FOR FUTURE USE. PROVIDE 24"X24" HANDHOLE ON EACH END OF CONDUIT. COORDINATE EXACT LOCATION OF HANDHOLE WITH GCSC PERSONNEL PRIOR TO INSTALLATION.
4. INSTALL 2#8 AND 1#8 GROUND IN 1" CONDUIT TO PANEL 'PL'. CONTINUE 2#8 AND 1#8 GROUND IN 1" CONDUIT THROUGH THE END DEVICE OF THE CIRCUIT. WHERE POSSIBLE UTILIZE THE COMMON UTILITY TRENCH FOR ALL INSTALLATIONS THROUGH THE EXISTING PARKING AREA.
5. PROVIDE NEW HAND HOLES AS REQUIRED TO SPLICE AND EXTEND EXISTING CIRCUITS TO BE SERVED FROM NEW PANELBOARDS.

FIXTURE INSTALLATION NOTE:
LIGHT FIXTURE LOCATIONS SHOWN ARE APPROXIMATE. ADJUST LOCATIONS SLIGHTLY FOR ANY CONFLICT WITH TREES, PATHWAYS OR OTHER UTILITIES. FINAL LOCATIONS IN THE FIELD SHALL BE CONFIRMED WITH GCSC PERSONNEL PRIOR TO INSTALLATION.

SPARE CONDUIT NOTE:
PROVIDE SPARE 1 1/2" CONDUIT WITH PULL STRING IN SAME TRENCH AS CONDUIT FOR LIGHTING CIRCUIT. CONDUIT SHALL GO TO 12" X 12" ELECTRICAL HAND HOLE AT BASE OF EACH LIGHTING FIXTURE.

CIRCUITING/ROUTING NOTE:
THE CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. CONDUIT SHALL BE INSTALLED IN COMMON TRENCHES WITH OTHER UTILITIES. COORDINATE WITH THE CIVIL PLAN FOR TRENCH DETAILS.



KEY MAP
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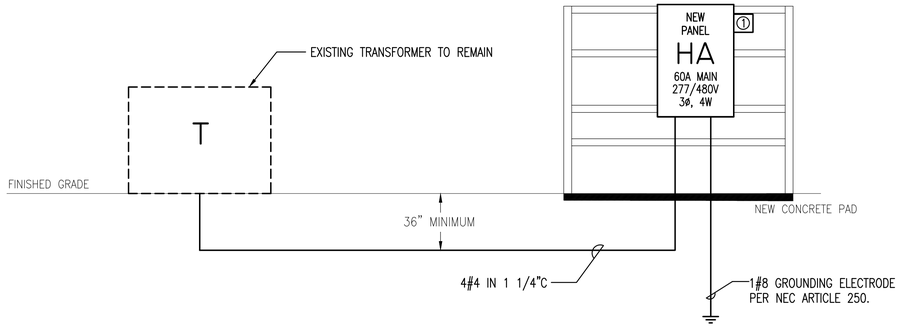
GULF COAST STATE COLLEGE
PHASE 2
CAMPUS IMPROVEMENTS

NEW WORK PLAN
AREA 'C'

CONSTRUCTION DOCUMENTS

Sheet Number
E7

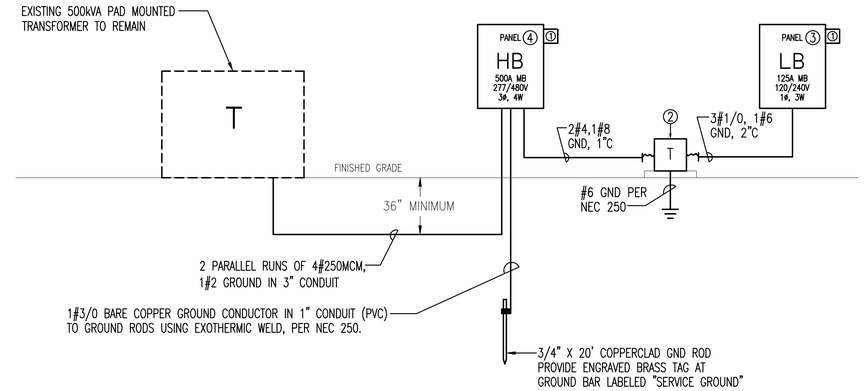


PANEL 'HA' POWER RISER DIAGRAM

NOT TO SCALE

PANEL 'HA' POWER RISER KEYNOTES:

① SURGE SUPPRESSOR; EQUAL TO SURGE SUPPRESSION INC. #SKB3Y2D3 INSTALL PER MANUFACTURER'S RECOMMENDATIONS; SURGE SUPPRESSOR SHALL BE NEMA 3R RATED.



PANEL 'HB' POWER RISER DIAGRAM

NOT TO SCALE

PANEL 'HB' POWER RISER KEYNOTES:

① SURGE SUPPRESSOR; EQUAL TO SURGE SUPPRESSION INC. #SKB3Y2D3 INSTALL PER MANUFACTURER'S RECOMMENDATIONS; SURGE SUPPRESSOR SHALL BE NEMA 3R RATED.

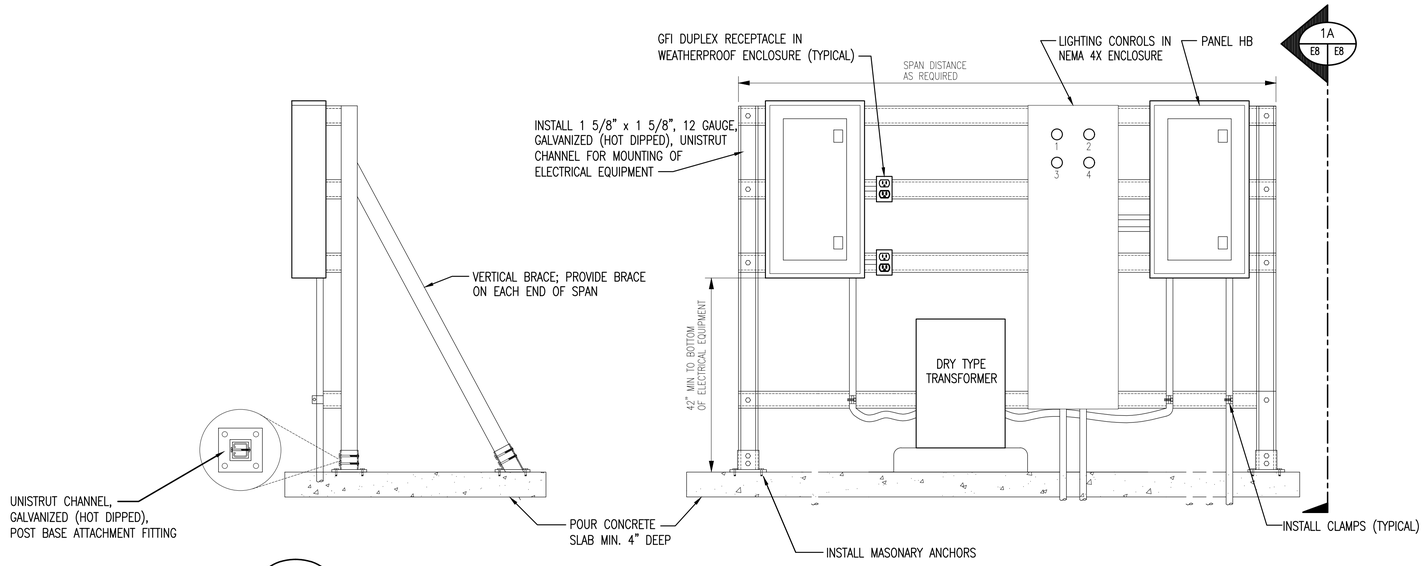
② GENERAL PURPOSE 25KVA 480 – 240/120V, 1ø, 3W, DRY TYPE TRANSFORMER. PROVIDE NEMA 3R STAINLESS STEEL ENCLOSURE, WEATHERSHIELDS AND CONCRETE PAD 4" THICK AND 4" LARGER THAN FOOTPRINT OF TRANSFORMER.

③ SEE PANEL 'HB' MOUNTING DETAIL THIS SHEET.

④ SEE PANEL 'HB' MOUNTING DETAIL THIS SHEET. RECONNECT ALL EXISTING BALL FIELD LIGHTING CIRCUITS TO NEW PANEL.

BASEBALL FIELD
LIGHTING CONTACTOR ZONE SCHEDULE

POLE	CONTACTOR SIZE	CONTACTOR ID	ZONE
1	60 AMPS	C1	1
2	60 AMPS	C2	1
3	60 AMPS	C3	2
4	60 AMPS	C4	2
5	60 AMPS	C5	3
6	60 AMPS	C6	3
7	60 AMPS	C7	4
8	60 AMPS	C8	4



1A E8 E8 ELEVATION
NO SCALE

PANEL 'HB' MOUNTING DETAIL

NOT TO SCALE

LIGHTING CONTROL CABINET(S) SHALL HAVE:
–'ON–OFF KEYED SWITCHES – EACH ZONE –DIGITAL CELLULAR ANTENNA –MOUNTING HARDWARE –CONTROL CIRCUIT LOCK–ON DEVICE TO PREVENT UNAUTHORIZED POWER INTERRUPTION TO CONTROL POWER –ANTI CORROSION COMPOUND TO APPLY TO ENDS OF WIRE AS REQUIRED –ENTRANCE HUBS RATED NEMA 4–MUST BE DIE–CAST ZINCE, PVC, OR COPPER–FREE DIE–CAST ALUMINUM

NOTE: THE MANUFACTURER SHALL PROVIDE ALL CONTROL CABLING AND DEVICES REQUIRED FOR A COMPLETE LIGHTING CONTROL SYSTEM. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONDUIT REQUIREMENTS AND INSTALL ACCORDINGLY.

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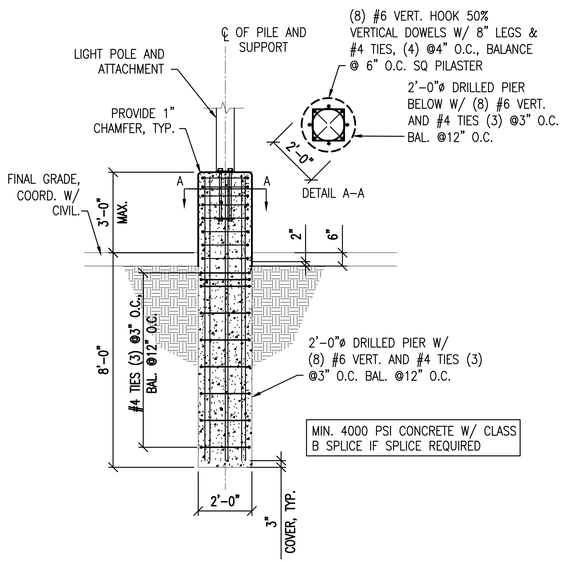
GULF COAST STATE COLLEGE
PHASE 2
CAMPUS IMPROVEMENTS

ELECTRICAL DETAILS

CONSTRUCTION DOCUMENTS

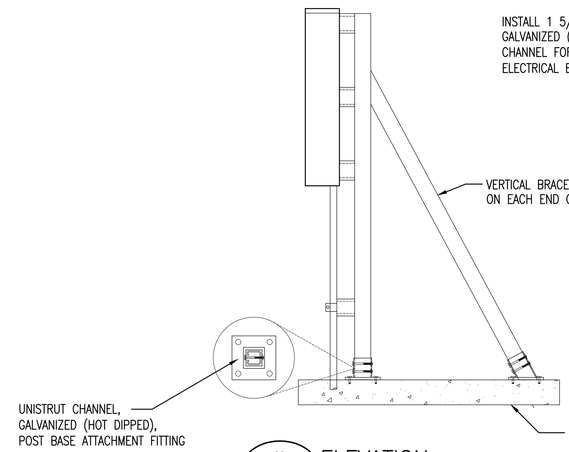
Sheet Number
E8



STRUCTURAL LIGHT POLE BASE DETAIL

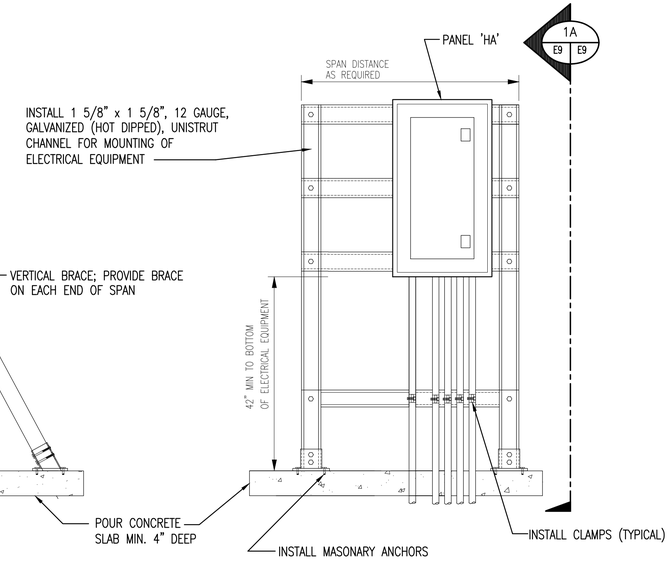
NOT TO SCALE

DETAIL PROVIDED IS FOR A CAST IN PLACE POLE BASE. IF THE CONTRACTOR ELECTS TO INSTALL A PRECAST POLE BASE, SIGNED AND SEALED SHOP DRAWINGS SHALL BE PROVIDED BY A SPECIALTY ENGINEER FOR REVIEW.



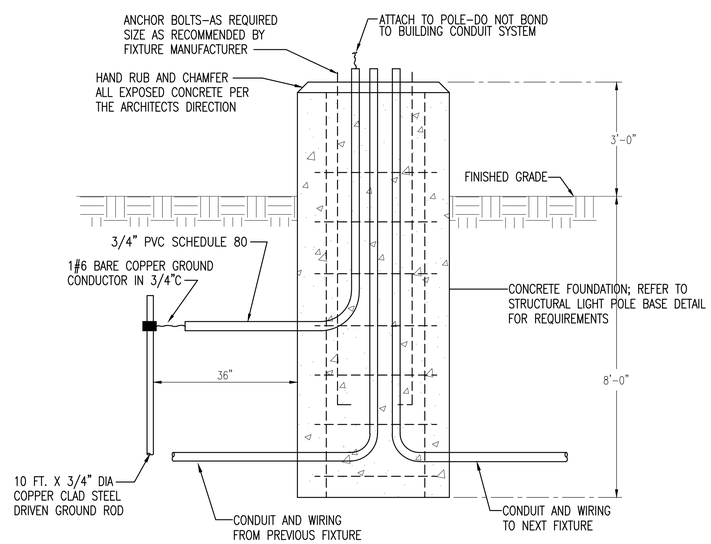
1A E9 E9 ELEVATION

NO SCALE



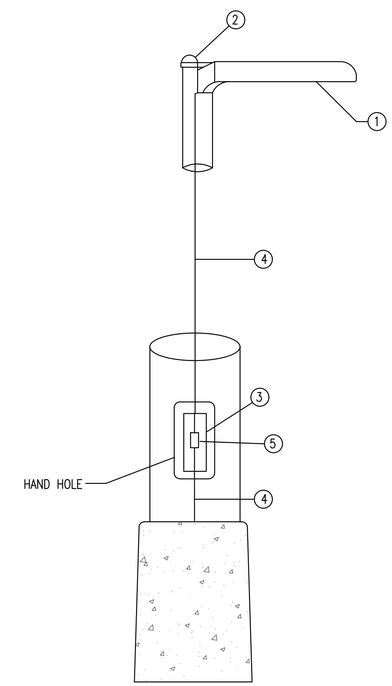
PANEL 'HA' MOUNTING DETAIL

NOT TO SCALE



ELECTRICAL POLE BASE FOR FIXTURES 'PL', 'PLI', 'PL2'

NOT TO SCALE



ITEM #	DESCRIPTION
1	LED FIXTURE; SEE LIGHTING FIXTURE SCHEDULE FOR EXACT FIXTURE
2	NWTL TWIST LOCK LIGHTING CONTROLLER
3	HANDHOLE
4	#8 WIRING TO LIGHT FIXTURE
5	SURGE SUPPRESSOR

NWTL-III-IP MOUNTING ON TOP OF POLE

NOT TO SCALE

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GULF COAST STATE COLLEGE
PHASE 2
CAMPUS IMPROVEMENTS

ELECTRICAL DETAILS

CONSTRUCTION DOCUMENTS

Sheet Number
E9

277/480 VOLT 3ø 4W
60 AMP MAIN BREAKER
PANEL SHALL BE SERVICE ENTRANCE RATED

CIRCUIT BREAKER PANEL SCHEDULE
PANEL HA

UNISTRUT MOUNTED
NEMA 4X ENCLOSURE
PANEL SHALL BE LOCKABLE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	PARKING LOT LIGHTS	1	20	.63						20	1	SPARE	2
3	PARKING LOT LIGHTS	1	20		1.59					20	1	SPARE	4
5	SPARE	1	20							20	1	SPARE	6
7	SPACE ONLY	1	--							--	1	SPACE ONLY	8
9	SPACE ONLY	1	--							--	1	SPACE ONLY	10
11	SPACE ONLY	1	--							--	1	SPACE ONLY	12
13	SPACE ONLY	1	--							↓	↓	↓	14
15	SPACE ONLY	1	--							30	3	SURGE SUPPRESSOR	16
17	SPACE ONLY	1	--							↓	↓	↓	18

TOTAL CONNECTED KVA: A 0.63, B 1.59, C –

MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL

277/480 VOLT 3ø 4W
500 AMP MAIN BREAKER
PANEL SHALL BE SERVICE ENTRANCE RATED

CIRCUIT BREAKER PANEL SCHEDULE
PANEL HB

UNISTRUT MOUNTED
NEMA 4X ENCLOSURE
PANEL SHALL BE LOCKABLE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	↓	↓	↓							↓	↓	↓	2
3	POLE #5 TOP ROW	3	40②							②50	3	POLE #8 BOTTOM ROW	4
5	↓	↓	↓							↓	↓	↓	6
7	↓	↓	↓							↓	↓	↓	8
9	POLE #5 BOTTOM ROW	3	50②							②50	3	POLE #1	10
11	↓	↓	↓							↓	↓	↓	12
13	↓	↓	↓							↓	↓	↓	14
15	POLE #6	3	50②							②50	3	POLE #2	16
17	↓	↓	↓							↓	↓	↓	18
19	↓	↓	↓							↓	↓	↓	20
21	POLE #7	3	40②							②50	3	POLE #3	22
23	↓	↓	↓							↓	↓	↓	24
25	↓	↓	↓							↓	↓	↓	26
27	POLE #8 TOP ROW	3	40②							②50	3	POLE #4	28
29	↓	↓	↓							↓	↓	↓	30
31	PANEL 'LB' VIA TRANSFORMER	2	70							↓	↓	↓	32
33	↓	↓	↓							①30	3	EXISTING CIRCUIT	34
35	SPACE ONLY	1	--							↓	↓	↓	36
37	ROADWAY LIGHTING	1	20	1.27						20	1	CIRCUIT FOR SIGN ROUNDABOUT	38
39	ROADWAY LIGHTING	1	20		2.54					20	1	CIRCUIT FOR N ENTRANCE	40
41	ROADWAY LIGHTING	1	20			1.27				20	1	SPARE	42
43	CIRCUIT FOR SIGN S ENTRANCE	1	20							--	1	SPACE ONLY	44
45	CIRCUIT FOR SIGN S ENTRANCE	1	20							--	1	SPACE ONLY	46
47	SPARE	1	20							--	1	SPACE ONLY	48
49	SPACE ONLY	1	--							↓	↓	↓	50
51	SPACE ONLY	1	--							30	3	SURGE SUPPRESSOR	52
53	SPACE ONLY	1	--							↓	↓	↓	54

① RECONNECT EXISTING CIRCUIT
② RECONNECT EXISTING BALL FIELD LIGHTING
ROUTE CIRCUIT THROUGH LIGHTING CONTROL PANEL

MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL

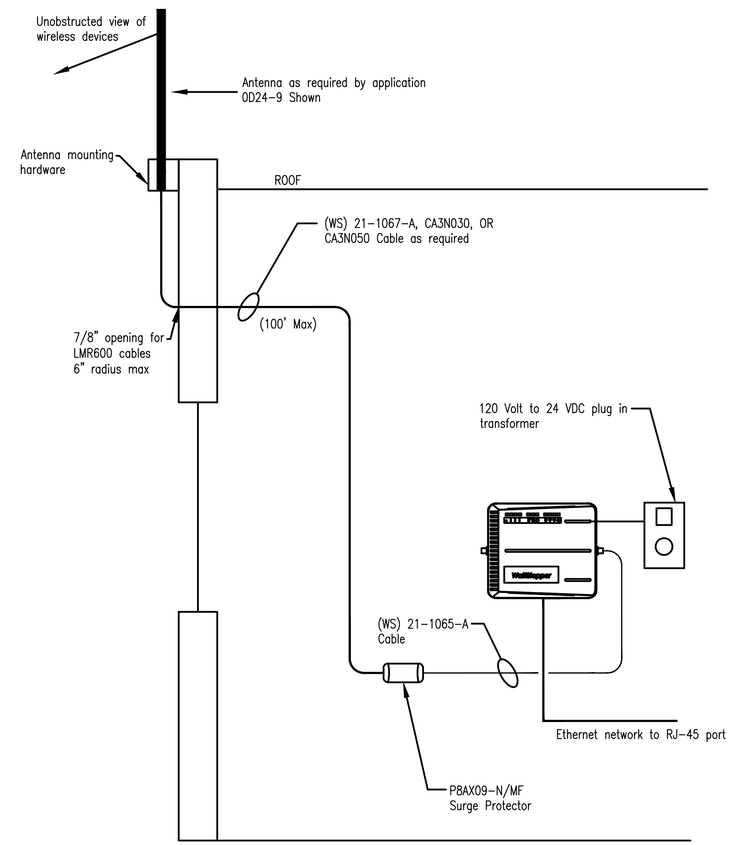
120/240 VOLT 1ø 3W
125 AMP MAIN BREAKER

CIRCUIT BREAKER PANEL SCHEDULE
NEW PANEL LB

SURFACE MOUNTED
NEMA 4X ENCLOSURE
PANEL SHALL BE LOCKABLE

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	KVA/PHASE A	KVA/PHASE B	KVA/PHASE A	KVA/PHASE B	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	RECEPTACLE ON BACKBOARD	1	20					20	1	RECEPTACLE ON BACKBOARD	2
3	EXISTING CIRCUIT	1	20					20	1	EXISTING CIRCUIT	4
5	EXISTING CIRCUIT	1	20					20	1	EXISTING CIRCUIT	6
7	SCOREBOARD	2	40					20	1	CIRCUIT FOR SIGN ROUNDABOUT	8
9	↓	↓	↓					20	1	CIRCUIT FOR N ENTRANCE	10
11	EXISTING CIRCUIT	1	20					20	1	BB FIELD LIGHTING CONTROLS	12
13	EXISTING CIRCUIT	1	20					20	1	SPARE	14
15	CIRCUIT FOR SIGN S ENTRANCE	1	20					20	1	SPARE	16
17	CIRCUIT FOR SIGN S ENTRANCE	1	20					--	1	SPACE ONLY	18
19	SPACE ONLY	1	--					--	1	SPACE ONLY	20
21	SPACE ONLY	1	--					--	1	SPACE ONLY	22
23	SPACE ONLY	1	--					--	1	SPACE ONLY	24
25	SPACE ONLY	1	--					--	1	SPACE ONLY	26
27	SPACE ONLY	1	--					30	2	SURGE SUPPRESSOR	28
29	SPACE ONLY	1	--					↓	↓	↓	30

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL



WATTSTOPPER CWS-225 DETAIL

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PHASE 2
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PANEL SCHEDULES AND DETIALS

CONSTRUCTION DOCUMENTS

Sheet Number
E10