CONSTRUCTION PLANS

LEE COUNTY SOLID WASTE TRANSFER STATION EMPLOYEE BUILDING

CIP200751

10450-10550 BUCKINGHAM ROAD
FORT MYERS, FLORIDA 33905

SECTION 24, TOWNSHIP 44S, RANGE 25E

CONSULTANTS

OWNER/DEVELOPER:
LEE COUNTY
PO BOX 398
FORT MYERS, FL 33902

CIVIL ENGINEER/PRIME:
STANTEC CONSULTING SERVICES, INC.
1412 JACKSON ST., SUITE 3
FORT MYERS, FL 33901

ARCHITECT:
CASTELLANOS & TRAMONTE ARCHITECTS
1228 LAFAYETTE ST., SUITE 1
CAPE CORAL, FL 39904
239-549-0997

MEP ENGINEER:
SPELMAN ENGINEERING, INC.
1923 SE 10TH PLACE
CAPE CORAL, FL 33990
239-770-2930

60% SUBMITTAL
PRELIMINARY NOT FOR CONSTRUCTION

INDEX OF DRAWINGS

SHEET #	SHEET TITLE
	SITE CONSTRUCTION PLANS
01	COVER SHEET
02	GENERAL NOTES
03	LEGEND AND PROJECT INFORMATION
04	2023 AERIAL W/ PROJECT OVERLAY
05	SITE PLAN
06	PAVING, GRADING AND DRAINAGE PLAN
07	TYPICAL DETAILS AND SECTIONS
08	UTILITY PLAN
09	UTILITY DETAILS
10	UTILITY DETAILS
11	LIFT STATION DETAILS
12	TEMPORARY EROSION CONTROL PLAN
13	TEMPORARY EROSION CONTROL DETAILS
14	BERM RESTORATION PLAN
	EMPLOYEE BUILDING PLANS
T-1	TITLE PAGE, CODE DATA & NOTES
LS-1	LIFE SAFETY PLAN
A-1	FLOOR PLAN, ROOM SCHEDULES & WALL TYPES
A-2	REFLECTED CEILING PLAN
A-3	ENLARGED PLANS & INTERIOR ELEVATIONS
A-4	BUILDING ELEVATIONS

SP-1	SPECIFICATIONS
E-1	ABBREVIATIONS, SPECIFICATIONS, AND SYMBOLS LEGEND
E-2	SITE PLAN AND RISER DIAGRAM
E-3	LIGHTING PLAN, FIXTURE SCHEDULE, AND PANEL SCHEDULE
E-4	POWER AND SYSTEMS PLAN
E-5	EGRESS PHOTOMETRICS PLAN
M-1	SPECIFICATIONS AND SCHEDULES
M-2	MECHANICAL FLOOR PLAN
M-3	MECHANICAL DETAILS
P-1	SPECIFICATIONS AND SCHEDULES
P-2	PLUMBING SANITARY PLAN
P-3	PLUMBING DOMESTIC WATER PLAN
P-4	PLUMBING ISOMETRICS

60% SUBMITTAL PRELIMINARY (NOT FOR CONSTRUCTION)

CONSTRUCTION PLANS

LEE COUNTY SOLID WASTE TRANSFER STATION EMPLOYEE BUILDING

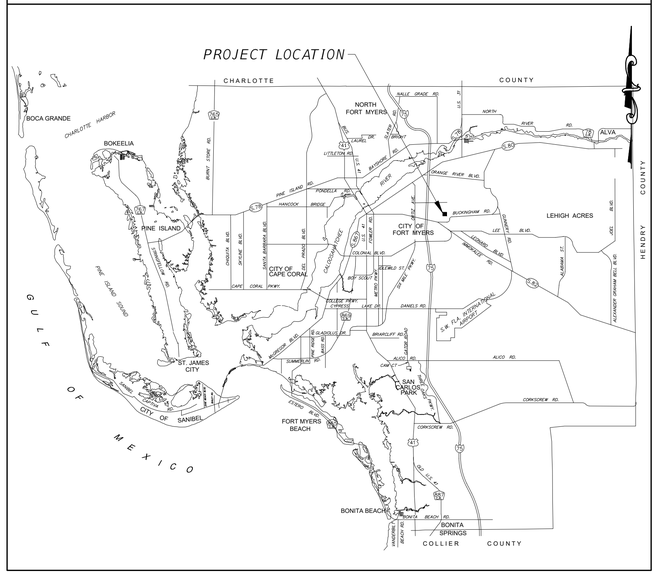
CIP200751

10450-10550 BUCKINGHAM ROAD

FORT MYERS, FLORIDA 33905

SECTION 24, TOWNSHIP 44S, RANGE 25E

LEE COUNTY MAP



STREET MAP



INDEX OF DRAWINGS

SHEET #	SHEET TITLE
01	COVER SHEET
02	SIGNATURE SHEET
03	GENERAL NOTES
04	LEGEND AND PROJECT INFORMATION
05	2023 AERIAL W/ PROJECT OVERLAY
06	SITE PLAN
07	PAVING GRADING & DRAINAGE PLAN
08	TYPICAL DETAILS AND SECTIONS
09	UTILITY PLAN
10	UTILITY DETAILS
11	UTILITY DETAILS
12	LIFT STATION DETAILS
13	TEMPORARY EROSION CONTROL PLAN
14	TEMPORARY EROSION CONTROL DETAILS
15	BERM RESTORATION PLAN

FILE : U:\215618410\CIVIL\02_DRAWINGS\PLANS\SHEET_FILES\01-215618410-CVR-SHT.DWG

Stantec

FORT MYERS

1412 JACKSON ST., SUITE 3
FORT MYERS, Fl. 33901

Project Name:

LEE COUNTY SOLID WASTE TRANSFER STATION EMPLOYEE BUILDING

Project Address:

10450-10550
BUCKINGHAM ROAD
FORT MYERS, FL 33905

Client/Owner:

LEE COUNTY
PO BOX 398
FORT MYERS, FL 33902

Engineer Contact:

Kristina Connelly, P.E.
Project Manager
Phone: 239-347-5508
Email: kristina.connelly@stantec.com

Project Engineer:

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY KRISTINA M. CONNELLY No.54805 ON THE DATE ADJACENT TO THE SEAL.

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FORT MYERS, FL 33901
KRISTINA M. CONNELLY, P.E. NO. 54805

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Revisions:

SITE DATA:

STRAP #	
SEC-TWP-RGE	SEC 24-TWP 44S-RGE 25E

PROJECT MGR:DANIEL M. CRAIG
PROJECT # :215618
FILE NAME :01-215618410-CVR-SHT.DWG
ORIGIN DATE:01-10-2024
DESIGNER :STS
CADD :STS
CHECKED BY :KC
PLOT DATE :FRI, 6-14-2024-11:44 AM
PLOTTED BY :STSTUART

SHEET TITLE:

COVER SHEET

SHEET NO. 01

PRELIMINARY
NOT FOR CONSTRUCTION

Kristina M Connelly

Digitally signed by Kristina M Connelly
Date: 2024.06.14 13:17:57 -04'00'

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ON THE DATE ADJACENT TO THE SEAL

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Company
Address
City
Phone
Eng/Arch

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INDEX OF DRAWINGS

SHEET #	SHEET TITLE
01	COVER SHEET
02	GENERAL NOTES
03	LEGEND AND PROJECT INFORMATION
04	2023 AERIAL W/ PROJECT OVERLAY
05	SITE PLAN
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07	TYPICAL DETAILS AND SECTIONS
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INDEX OF DRAWINGS

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~~A-3~~	~~ENLARGED PLANS & INTERIOR ELEVATIONS~~
~~A-4~~	~~BUILDING ELEVATIONS~~
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INDEX OF DRAWINGS

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~~E-4~~	~~POWER AND SYSTEMS PLAN~~
~~E-5~~	~~EGRESS PHOTOMETRICS PLAN~~
~~M-1~~	~~SPECIFICATIONS AND SCHEDULES~~
~~M-2~~	~~MECHANICAL FLOOR PLAN~~
~~M-3~~	~~MECHANICAL DETAILS~~
~~P-1~~	~~SPECIFICATIONS AND SCHEDULES~~
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Stantec

FORT MYERS
1412 JACKSON ST., SUITE 3
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Kristina Connelly, P.E.
Project Manager
Phone: 239-347-5508
Email: kristina.connelly@stantec.com

Project Engineer:

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KRISTINA M. CONNELLY, P.E. NO. 54805

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SITE DATA:

STRAP #	
SEC-TWP-RGE	SEC 24-TWP 44S-RGE 25E

PROJECT MGR: DANIEL M. CRAIG
PROJECT # : 200061-
FILE NAME : 02-200061-SIG.DWG
ORIGIN DATE : 01-10-2024
DESIGNER : STS
CADD : STS
CHECKED BY : KC
PLOT DATE : FRI, 6-14-2024-11:44 AM
PLOTTED BY : STSTUART

SHEET TITLE:

SIGNATURE SHEET

SHEET NO. 02

PRELIMINARY
NOT FOR CONSTRUCTION

FILE : U:\215618410\CIVIL\02_DRAWINGS\PLANS\SHEET_FILES\02-200061-SIG.DWG

GENERAL CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS OF ANY EXCAVATION OR DEMOLITION ACTIVITY THROUGH SUNSHINE ONE-CALL OF FLORIDA, INC. (1-800-432-4770) AND SHALL ALSO NOTIFY THOSE UTILITY OWNERS/AGENCIES LISTED WITHIN OR IMPACTED BY THESE PLANS, NOT LESS THAN (2) FULL BUSINESS DAYS IN ADVANCE OF THE BEGINNING OF CONSTRUCTION ON THE JOB SITE.
2. ANY PRIVATE OR PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS. AT NO ADDITIONAL COST THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES TO A CONDITION EQUAL OR BETTER THAN EXISTING, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR.
3. ALL DISTURBED AREAS ARE TO BE SODDED, UNLESS OTHERWISE NOTED, TO FDOT STANDARDS. ALL SOD IS TO BE MAINTAINED AND IRRIGATED BY CONTRACTOR UNTIL DEEMED ACCEPTED BY THE OWNER AND ENGINEER OF RECORD. ANY WASHOUTS, REGRADING, RESODDING, AND GRASSING WORK, AND OTHER EROSION WORK REQUIRED, WILL BE PERFORMED BY THE CONTRACTOR, UNTIL THE SYSTEM IS ACCEPTED, BY THE OWNER, REGULATORY AGENCY AND ENGINEER OF RECORD AT NO ADDITIONAL COST.
4. THE CONTRACTOR SHALL UTILIZE A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF FLORIDA TO LOCATE AND FLAG ALL PROPERTY CORNERS PRIOR TO CONSTRUCTION AND BE MAINTAINED UNTIL FINAL ENGINEERING INSPECTION AND CERTIFICATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE PROPERTY CORNERS, WHICH HAVE BEEN LOST DURING CONSTRUCTION, REESTABLISHED BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF FLORIDA. ALL (P.R.M'S) IRONS AND MONUMENTS SHOWN ON THE PLANS OR FOUND SHALL BE PRESERVED. ANY PUBLIC LAND CORNERS WITHIN LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF ANY CORNER MONUMENT IS IN DANGER OF BEING DESTROYED OR DISTURBED, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER WITHOUT DELAY.
5. ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH LEE COUNTY MINIMUM DESIGN STANDARDS. ALL CONSTRUCTION MATERIALS, METHODS AND EQUIPMENT MUST CONFORM TO THE REQUIREMENTS OF LCU, FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND FDOT DESIGN STANDARDS, CURRENT EDITION, AND SUCH OTHER EDITIONS, AMENDMENTS OR SUPPLEMENTS AS MAY BE ADOPTED BY FDOT. IN CASE OF SPECIFICATION DISCREPANCIES THE MORE STRINGENT CRITERIA GOVERNS.
6. THE CONTRACTOR SHALL FILE A NOTICE OF INTENT WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, CFM UTILITIES AND SFWMD A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
7. CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN AND MAKE HIS/HER BID BASED ON THOSE VERIFICATIONS. IF ANY DISCREPANCIES IN QUANTITIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SUCH.
8. THESE DRAWINGS DO NOT INCLUDE INSTRUCTIONS FOR THE CONTRACTOR REGARDING CONSTRUCTION SAFETY. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED BY THE CONTRACTOR. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE PUBLIC AND THE SAFETY OF HIS PERSONNEL.
9. WHEN WORKING ON OR ADJACENT TO EXISTING STRUCTURES OR APPURTENANCES, ALL PRECAUTIONS FOR CONTINUED SAFETY OF STRUCTURES AND ALL PERSONNEL SHALL BE EXERCISED IN ACCORDANCE WITH THE FLORIDA TRENCH SAFETY ACT AT A MINIMUM.
10. ALL SIGNAGE AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH FDOT STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION, FDOT ROADWAY AND FDOT DESIGN STANDARDS LATEST EDITION, AND THE MANUAL OF UNIFORM TRAFFIC CONTROL TRANSPORTATION ENGINEERING DESIGN STANDARDS. ALL ONSITE PAVEMENT MARKINGS SHALL BE PERMANENT REFLECTIVE TRAFFIC PAINT MEETING FDOT REQUIREMENTS. ALL HANDICAP REQUIREMENTS, BOTH SIGNAGE AND STRIPING WILL BE PER THE LATEST ADA CRITERIA USING THE APPROPRIATE COLORED TRAFFIC PAINT.
11. 24" STOP BARS SHALL BE CONSTRUCTED PER FDOT INDEX 17346 AND BE LOCATED AS SHOWN.
12. ALL STOP BARS SHALL BE THERMOPLASTIC .
13. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED PLANS AND PERMITS AT THE CONSTRUCTION SITE AT ALL TIMES. THE CONTRACTOR IS RESPONSIBLE TO READ AND UNDERSTAND ALL PERMITS INCLUDING ALL GENERAL AND SPECIAL CONDITIONS. AT OWNER'S OR ENGINEER'S REQUEST, THE CONTRACTOR SHALL PROVIDE APPROPRIATE DOCUMENTATION THAT ALL CONSTRUCTION RELATED CONDITIONS ARE ADHERED TO.
14. ASPHALT PAVEMENT DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
15. ZONING FOR THE SITE IS INDUSTRIAL PLANNED DEVELOPMENT (IPD).

CLEARING AND EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL CLEAR AND GRUB, ONLY THOSE PORTIONS OF THE SITE, NECESSARY FOR CONSTRUCTION. DISTURBED AREAS WILL BE SODDED, OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL IMMEDIATELY FOLLOWING CONSTRUCTION.
2. THE TOP 4" TO 6" OF GROUND REMOVED DURING CLEARING AND GRUBBING SHALL BE STOCKPILED AT A SITE DESIGNATED BY THE OWNER TO BE USED FOR LANDSCAPING PURPOSES, UNLESS OTHERWISE DIRECTED BY THE OWNER.
3. ANY CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS. ONLY "GRADING BY HAND" IS PERMITTED WITHIN THE CANOPY LINE OF TREES THAT ARE TO REMAIN.
4. THE CONTRACTOR IS TO OBTAIN ALL NECESSARY PERMITS FOR REMOVING ANY EXISTING STRUCTURES.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES TO DISCONNECT OR REMOVE THEIR FACILITIES PRIOR TO REMOVING OR DEMOLISHING ANY EXISTING STRUCTURES FROM THE SITE.
6. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAKING A VISUAL INSPECTION OF THE SITE AND WILL BE RESPONSIBLE FOR THE DEMOLITION AND REMOVAL OF ALL UNDERGROUND AND ABOVE GROUND.
7. IF THE CONTRACTOR SEES ANY EXISTING STRUCTURES AND/OR APPURTENANCES THAT ARE NOT CLEARLY MARKED FOR REMOVAL IN THE PLANS IT SHALL BE HIS RESPONSIBILITY TO CONTACT THE ENGINEER TO REQUEST A CLARIFICATION OF THE PLANS PRIOR TO DEMOLITION.
8. DURING CONSTRUCTION, ALL STORM SEWER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED SYNTHETIC BALES, SOD, STONE, ETC., AS IDENTIFIED IN THE EROSION CONTROL PLAN, WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.
9. ALL EROSION AND SILTATION CONTROL METHODS SHALL BE IMPLEMENTED PRIOR TO THE START OF CONSTRUCTION AND MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
10. WHEN CONSTRUCTION IS COMPLETED ANY DETENTION AREAS ERODED OR NOT CONSISTENT WITH THE APPROVED DESIGN WILL BE RESHAPED, CLEANED OF SILT, MUD AND DEBRIS, AND RE-SODDED IN ACCORDANCE TO THE PLANS.
11. CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (SYNTHETIC BALES OR SILTATION CURTAIN) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS, AND EXISTING WETLANDS. IN ADDITION, THE CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON THE GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT THE SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.
12. SEE TEMPORARY EROSION CONTROL PLAN IN THIS PLAN SET FOR MINIMUM POLLUTION, EROSION, AND SEDIMENT CONTROL STANDARDS. CONTRACTOR SHALL ADD ADDITIONAL PROTECTIONS AS CONDITIONS REQUIRE.
13. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION, OR OTHER ACCEPTABLE METHODS.
14. THERE IS TO BE NO DISCHARGE (I.E. PUMPING, SHEET FLOW, SWALE, DITCH, ETC.) INTO EXISTING SWALE SYSTEM, LAKE SYSTEM, WETLAND, OR RIVER, WITHOUT THE USE OF SEDIMENT BASIN. IF THE CONTRACTOR DESIRES TO DISCHARGE INTO THE EXISTING SWALE SYSTEM, LAKE SYSTEM OR RIVER, A SEDIMENT BASIN PLAN MUST BE SUBMITTED AND APPROVED BY THE ENGINEER OF RECORD AND LOCAL REGULATORY AGENCY PRIOR TO CONSTRUCTION.
15. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE DEMOLITION AREA TO FULLY UNDERSTAND HIS RESPONSIBILITY FOR REMOVAL OF ALL PAVEMENT, SURFACE STRUCTURES, VEGETATION, TREES AND ALL UTILITIES BOTH SURFACE AND SUBSURFACE. CONTRACTOR SHALL REFER TO LANDSCAPE ARCHITECTS PLANS FOR SPECIFIC CLEARING SPECIFICATIONS AROUND VEGETATION TO BE PRESERVED.

PAVING, GRADING AND DRAINAGE NOTES:

1. PROPERTY IS LOCATED IN FIRM ZONE X (NAVD88), COMMUNITY 071C, PANEL 0295, AND MAP NUMBER 12071C0295G.
2. ALL ELEVATIONS REFER TO VERTICAL DATUM AS INDICATED ON THE SURVEY PROVIDED HEREIN; N.A.V.D. 88 BY AIM SURVEYING, INC., DATED 10/10/2023.
3. THE ENGINEER HAS ANALYZED THAT NO NEGATIVE IMPACTS TO GROUNDWATER OR SURFACE WATER ARE ANTICIPATED.
4. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE OWNER'S ENGINEER, SHOP DRAWINGS ON ALL PROPOSED PRECAST AND MANUFACTURED STRUCTURES. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. ALL SHOP DRAWINGS ARE TO BE REVIEWED AND APPROVED BY CONTRACTOR SIGNATURE PRIOR TO SUBMITTAL TO THE OWNER'S ENGINEER.
5. ALL PROPOSED CONCRETE INLETS AND/OR CATCH BASINS SHALL HAVE GROUT IN THE BOTTOM OF THE SUMP PLACED TO MATCH PIPE INVERTS FOR UNIFORM HYDRAULIC TRANSITION WITH SIDE SLOPES AT 1/2" PER FOOT.
6. ALL INLETS SHALL HAVE PIPES CUT FLUSH WITH INSIDE FACE OF INLET BOXES IN ALL CASES.
7. ALL PROPOSED DRAINAGE STRUCTURE GRATES AND COVERS WITHIN TRAFFIC AREAS SHALL BE TRAFFIC RATED FOR AND CAPABLE OF WITHSTANDING H-20 LOADINGS.
8. PIPE LENGTHS SHOWN ARE THE MINIMUM REQUIRED TO THE INSIDE FACE OF THE DRAINAGE STRUCTURE OR BEGINNING OF MITERED END SECTION.
9. DRAINAGE STRUCTURE TYPE REFERS TO FDOT DESIGN STANDARD INDEX NO. 425-001 AND 425-024. ENDWALL STRUCTURES REFER TO FDOT DESIGN STANDARD INDEX NO. 430-030.
10. ALL DELETERIOUS SUBSTANCE MATERIAL, (I.E. MUCK, PEAT, BURIED DEBRIS), IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS, OR AS DIRECTED BY THE OWNER'S ENGINEER, OR OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS.
11. STANDARD INDICES REFER TO THE LATEST OF FDOT "STANDARD PLANS FOR ROAD CONSTRUCTION".
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING, OR SHORING, AS NECESSARY. TRENCHES SHALL BE KEPT DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED. CONTRACTOR SHALL COMPLY WITH THE STATE OF FLORIDA "TRENCH SAFETY ACT".
13. THE CONTRACTOR IS TO PROVIDE A ½" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER, AT ABUTMENT OF CONCRETE AND ANY STRUCTURE.
14. UNDERCUTTING AND/OR OVER EXCAVATING THE RETENTION/DETENTION AREAS WILL NOT BE ALLOWED.
15. GREEN OPEN SPACE ELEVATIONS SHOWN ARE TO TOP OF SOD. FINISH GRADE TO WITHIN 2" OF PAVEMENT ELEVATIONS BEFORE LAYING SOD & MULCH BEDS. (STRICTLY ENFORCED). ALL AREAS TO BE GRADED AND SODDED MUST DRAIN WITHOUT ANY NOTICEABLE PONDING. THE CONTRACTOR WILL BE REQUIRED TO REGRADE AND RESOD ANY AREAS WHICH DO NOT COMPLY WITH POSITIVE DRAINAGE WITHOUT PONDING.
16. STORM DRAINAGE CULVERTS SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. THE CONTRACTOR IS TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE AN INSPECTION.
17. THE CONTRACTOR SHALL MAINTAIN THE STORM DRAINAGE SYSTEMS UNTIL FINAL ACCEPTANCE OF THE PROJECT.
18. ALL CONSTRUCTION SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION (FACBC). CONTRACTOR SHALL NOTIFY ENGINEER OF ALL SIDEWALK CONSTRUCTION AND SCHEDULE INSPECTION OF CONCRETE FORMS.
19. ALL SIDEWALK CONSTRUCTION SHALL BE LAYED WITH A MAXIMUM CROSS SLOPE OF 2% (STRICTLY ENFORCED) AND UNLESS A CURB RAMP SHALL NOT HAVE A RUNNING SLOPE (LONGITUDINAL) GREATER THAN 5% OR ELSE IT WILL BE DEEMED A RAMP REQUIRING HAND RAILS.
20. ALL DETECTABLE WARNING SURFACES TO BE RECESSED IN THE PROPOSED SURFACE AND ANCHORED.
21. THE CONTRACTOR IS REQUIRED TO ADJUST ALL VALVE BOXES, MANHOLE RIMS, ETC. AS NECESSARY TO MATCH PROPOSED GRADES. ALL ADJUSTMENTS SHALL BE MADE IN ACCORDANCE WITH LEE COUNTY UTILITIES AND FDOT STANDARDS AND SPECIFICATIONS.
22. BACKFILL MATERIAL SHALL BE COMPACTED TO FDOT SPECIFICATIONS AROUND PIPES IN 6" LAYERS UP TO A LEVEL OF AT LEAST ONE FOOT ABOVE THE TOP AND BELOW BOTTOM OF THE PIPE. IN AREAS TO BE PAVED, BACKFILL SHALL BE FILLED IN 1 FT. MAXIMUM LIFTS AND COMPACTED TO 98% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99, MODIFIED PROCTOR. ALL OTHER AREAS TO BE FILLED SHALL ADHERE TO FDOT EMBANKMENT CONSTRUCTION AND QUALITY CONTROL ACCEPTANCE CRITERIA SPECIFICATIONS.
23. ALL UTILITY LINES (INCLUDING STORM) CLEAN OUT ACCESS PORTS IN HARDSCAPE AREAS (E.G. SIDEWALK) SHALL HAVE ADA COMPLIANT LIDS FLUSH WITH ADJACENT GRADES; ALL LIDS IN LANDSCAPED LOCATIONS SHALL BE PLACED IN A 2'X2' SQUARE 4" THK. CONCRETE PAD. (SEE DETAIL)
24. NO DEWATERING IS ANTICIPATED FOR THE PROPOSED CONSTRUCTION. IN THE EVENT DEWATERING IS REQUIRED THE CONTRACTOR SHALL APPLY FOR ALL APPLICABLE WATER USE PERMITS AT THAT TIME.
25. ALL HANDICAP SIDEWALK RAMPS SHALL BE CONSTRUCTED PER FDOT INDEX 522-022.
26. CONTRACTOR SHALL FLUSH ALL EXISTING AND PROPOSED ONSITE STORM DRAIN PIPES AND STRUCTURES WITHIN WORK AREAS. ALL DRAINAGE INFRASTRUCTURE IS TO BE CLEAR OF DEBRIS PRIOR TO CONTRACTOR'S REQUEST FOR ENGINEER'S FINAL INSPECTION, ALL DEBRIS IS TO BE REMOVED FROM SITE AND TRANSPORTED TO APPROVED LOCATION. CONTRACTOR SHALL PUMP DRAINAGE SYSTEM DRY FOR FINAL INSPECTION.
27. CONTRACTOR SHALL COMPACT PERIMETER BERMS AND EMBANKMENTS THAT WILL SUPPORT APPURTENANCES, MONUMENT STRUCTURES, AND ROADWAY ELEMENTS TO A MINIMUM OF 98 PERCENT OF THE MAXIMUM DRY DENSITY (MODIFIED PROCTOR) AS DETERMINED BY FM 1-T 180, METHOD D, UNLESS OTHERWISE SPECIFIED BY ARCHITECT OR GEOTECHNICAL ENGINEER. FOR ALL OTHER AREAS, THE CONTRACTOR SHALL COMPACT EMBANKMENT TO A MINIMUM 90 PERCENT OF THE MAXIMUM DRY DENSITY (MODIFIED PROCTOR) AS DETERMINED BY FM 1-T 180, METHOD D. THE CONTRACTOR SHALL PROVIDE SIGNED AND SEALED GEOTECHNICAL TEST REPORTS CERTIFYING THAT PLACED EMBANKMENT WAS COMPACTED TO ITS MAXIMUM LIFT THICKNESS PER FDOT SPECIFICATIONS. TESTING REPORTS ARE TO BE SUPPLIED TO THE CIVIL ENGINEER AS COMPLETED.
28. ALL BUILDING RELATED GEOTECHNICAL TESTING, SUBSURFACE INVESTIGATION, SPECIFIED SITE COMPACTION AND CLEARING SPECIFICATIONS ARE BY THE ARCHITECT.
29. TESTING OF ASPHALT PAVEMENT SECTIONS BY A CERTIFIED TESTING LAB, INCLUDING CORE SAMPLES, SHALL BE PROVIDED TO ENGINEER FOR EVERY 5,000 SQ. FT. AREA OF PAVEMENT IN GENERAL. CONTRACTOR TO CONFIRM TESTING LOCATIONS WITH ENGINEER PRIOR TO PAVEMENT STRUCTURE CONSTRUCTION. TESTING OF EACH AREA SHALL ADHERE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION. FAILURE TO PROVIDE ENGINEER WITH SATISFACTORY TEST RESULTS WILL PREVENT CONSTRUCTION CERTIFICATION AND DELAY FINAL ACCEPTANCE BY OWNER.
30. THE CONTRACTOR IS TO INSTALL EXTRA BASE MATERIAL WHERE THE DISTANCE BETWEEN THE PAVEMENT ELEVATION AND THE TOP OF THE PIPE OR BELL IS LESS THAN SIX AND ONE HALF INCHES (6.5"). SEE EXTRA BASE FOR CROSS CULVERTS UNDER FLEXIBLE PAVEMENT DETAIL.

AS-BUILT SURVEY NOTES:

1. AS-BUILT SURVEY WILL BE THE CONTRACTOR'S OBLIGATION AND SHALL BE SURVEYED IN THE FIELD BY A LICENSED SURVEYOR, REGISTERED IN THE STATE OF FLORIDA. THE FINAL DOCUMENT SHALL BE SUBMITTED TO THE ENGINEER AS A SIGNED AND SEALED PDF FOR THE ENGINEERS RECORDS.
2. IN ADDITION TO S&S PDF'S, FOR THE UTILITY PORTION OF THE AS-BUILT SURVEY THE CONTRACTOR SHALL SUBMIT THE SURVEYORS AUTOCAD DRAWING VERSION 2013 OR NEWER TO THE ENGINEER SHOWING SURVEYORS POINTS, FITTINGS, APPURTENANCES, PIPES AND MATERIALS, MEETING LEE COUNTY UTILITY STANDARDS, FOR INCORPORATION BY THE ENGINEER INTO THE ENGINEER'S ORIGINAL ENGINEERING AUTOCAD DATA BASE. THE ENGINEER WILL PRODUCE FINAL RECORD DRAWINGS AFTER UPDATING THE ENGINEERING AUTOCAD DATA BASE FROM THE UTILITY AS-BUILT INFORMATION. THE ENGINEERS UTILITY RECORD DRAWINGS WILL THEN BE SUBMITTED TO LEE COUNTY UTILITIES FOR THEIR APPROVAL. INFORMATION ABOUT LEE COUNTY UTILITIES AS-BUILT SPECIFICATIONS, REQUIREMENTS AND FINAL ACCEPTANCE PROCESS CAN BE FOUND AT https://www.leegov.com/utilities
3. FOR THE GRADING PORTION OF THE AS-BUILT SURVEY, DRAWINGS SHALL INCLUDE AS-BUILT CONSTRUCTION INFORMATION FOR ALL DRAINAGE SYSTEM STRUCTURES, DETENTION/RETENTION SYSTEM BOTTOM AREAS. SURVEY DATA WILL BE REQUIRED EVERY 100' FOR PERIMETER BERM ELEVATIONS, TOE ELEVATIONS AND SIDE SLOPES. SURVEYOR SHALL INCLUDE CONTROL STRUCTURE WEIR AND BLEEDER SIZE, INVERT ELEVATIONS AND WILL ALSO PLACE A PERMANENT BENCH MARK ON THE CONTROL STRUCTURE TOP.

UTILITY NOTES:

1. LEE COUNTY UTILITIES HAS BEEN ABBREVIATED AS LCU IN THESE PLANS, ANY REFERENCE TO LCU IS INTENDED TO IMPLY LEE COUNTY UTILITIES.
2. THE CONTRACTOR SHALL NOTIFY THE OWNER, ENGINEER AND ALL UTILITY COMPANIES IN THE AREA 48 HOURS (MIN.) PRIOR TO COMMENCING CONSTRUCTION.
3. UNLESS OTHERWISE NOTED, ALL UTILITY RELATED CONSTRUCTION, MATERIALS, TESTING AND RECORD KEEPING SHALL CONFORM TO ALL APPLICABLE DEP, DOH AND LCU STANDARDS AND SPECIFICATIONS. UTILITY COORDINATION AND NOTIFICATION OF ALL PARTIES IS THE CONTRACTORS RESPONSIBILITY FOR CONSTRUCTION, TESTING, INSPECTION AND CERTIFICATION.
4. ALL COMPONENTS OF THE POTABLE WATER SYSTEM SHALL BE IN CONFORMANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE/NSF INTERNATIONAL STANDARD NO. 61. ALL COMPONENTS, INSTALLATION AND TESTING OF THE POTABLE WATER SYSTEM SHALL BE IN ACCORDANCE WITH ALL APPLICABLE AWWA STANDARDS.
5. ALL PROPOSED CIVIL RESPONSIBILITY FOR UTILITY/DRAIN CONNECTIONS END 5' FROM BUILDING ENVELOPE.
6. ALL FITTINGS FOR PVC WATER MAIN PIPE 4" DIAMETER OR LARGER ARE TO BE DUCTILE IRON MECHANICAL JOINT (RESTRAINED JOINT) FITTINGS.
7. JOINT RESTRAINT DEVICES FOR C-900 PVC PIPE WITH DUCTILE IRON MECHANICAL JOINT FITTINGS SHALL BE EBAA IRON SALES, INC., SERIES PV, UNIFLANGE 1300, STAR PIPE PRODUCT, L.P., OR APPROVED EQUIVALENT.
8. ALL FITTINGS ARE NOT SHOWN FOR CLARITY, THE UTILITY LINE CONFIGURATIONS ARE SHOWN FOR LOCATION AND SIZE. PROPOSED WATER MAIN AND FORCE MAIN FITTINGS ARE SHOWN AT BENDS IN MAINS, ADDITIONAL FITTINGS MAY BE REQUIRED TO BEND MAINS AS SHOWN. ADDITIONAL FITTINGS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE MAINS AND NO ADDITIONAL PAYMENT WILL BE MADE FOR THE FITTINGS. CONTRACTOR MAY DEFLECT PROPOSED MAINS TO ROUTE PIPES AS SHOWN, HOWEVER NO DEFLECTIONS SHALL EXCEED ALLOWABLE DEFLECTION LIMITS SET FORTH BY PIPE MANUFACTURER.
9. CONTRACTOR SHALL BE REQUIRED TO CHECK FOR CONFLICTS WITH WATER, SEWER AND DRAINAGE WHEN INSTALLING WATERLINES AND IN ALL CASES WILL BE RESPONSIBLE FOR DEFLECTING WATERLINES UNDER POTENTIAL CONFLICT AREAS. NO DEFLECTIONS SHALL EXCEED ALLOWABLE DEFLECTION LIMITS SET FORTH BY THE MANUFACTURER. AN ALTERNATE TO DEFLECTING THE PIPE WOULD BE TO INSTALL 4-45° BENDS MECHANICAL JOINT WITH RESTRAINED JOINT DUCTILE IRON PIPE FITTINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST OF FITTINGS AS REQUIRED TO COMPLETE THE PROJECT AND SHALL BE INCLUDED IN THE BASE BID.
10. UTILITY PIPE LENGTHS ARE APPROXIMATE AND ARE MEASURED TO THE FACE OF STRUCTURES OR CENTER OF FITTING.
11. THE CONTRACTOR SHALL BE REQUIRED TO FIELD VERIFY ALL EXISTING UTILITIES AND LOCATE ALL EXISTING UTILITY CONFLICTS IN ADVANCE OF INSTALLATION OF PROPOSED SEWER, WATER AND DRAINAGE LINES SUCH THAT ADJUSTMENTS HORIZONTALLY AND VERTICALLY CAN BE MADE AS REQUIRED TO AVOID EXISTING UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION OF ALL UTILITIES (IE..POWER, TELEPHONE, CABLE ETC..) AND THE COST SHALL BE INCLUDED IN THIS BID. IF ANY DESIGN CHANGES REQUIRE ADDITIONAL MATERIALS TO BE INSTALLED AS A RESULT OF CONFLICTS, THEN THESE CHANGES MUST BE APPROVED BY THE OWNER AND ENGINEER IN ACCORDANCE WITH PROPER PROCEDURES AS OUTLINED IN THE CONTRACT DOCUMENTS PRIOR TO EXECUTION OF THE WORK.
12. IRRIGATION SOURCE: ONSITE NON-POTABLE MAIN.
13. CONTRACTOR IS TO CONTACT LEE COUNTY SOLID WASTE PROJECT MANAGER AND ENGINEER TO SET UP A PRECONSTRUCTION MEETING PRIOR TO STARTING CONSTRUCTION.
14. THE CONTRACTOR MAY ADJUST PROPOSED UTILITY LINES WITH ENGINEER'S PERMISSION TO PRESERVE OR AVOID EXISTING VEGETATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS OR VEGETATION PRESERVATION ADJUSTMENTS PRIOR TO ANY INSTALLATION SO THAT THE ENGINEER CAN MAKE ADJUSTMENTS IN HORIZONTAL OR VERTICAL ALIGNMENT OF THE PROPOSED UTILITIES. THIS WILL BE DONE AT NO ADDITIONAL INCREASE IN CONTRACT COST OR CONTRACT TIME.
15. ALL CLEAN-OUTS AND VALVES WILL HAVE A CONCRETE PAD AND COVER FLUSH WITH PROPOSED GRADE. (SEE DETAILS)
16. UNLESS SPECIFICALLY SHOWN, GRAVITY SEWERS OR FORCE MAINS CROSSING UNDER WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER AND JOINTS AND WATER JOINTS WILL BE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 10' BETWEEN ANY 2 JOINTS WHERE THE MINIMUM 18" SEPARATION CAN'T BE MAINTAINED, THE SEWER SHALL BE PLACED IN A SLEEVE OR INCASED IN CONCRETE FOR 20' CENTERED ON THE POINT OF CROSSING.
17. LCU DETAILS REFERENCED IN THESE PLANS ARE FROM LEE COUNTY UTILITIES AND WILL BE USED TO PROVIDE THE STANDARD FOR MATERIALS AND INSTALLATION UNLESS OTHERWISE NOTED.
18. EXERCISE CARE TO PROTECT THE ROOTS OF TREES TO REMAIN. WITHIN THE DRIP LINE OF SUCH TREES, PERFORM ALL TRENCHING BY HAND. OPEN THE TRENCH ONLY WHEN UTILITIES CAN BE INSTALLED IMMEDIATELY. PRUNE INJURED ROOTS CLEANLY AND BACKFILL AS SOON AS POSSIBLE.
19. SHOP DRAWINGS FOR ALL WATER AND SEWER SYSTEM MATERIALS AND STRUCTURES ARE REQUIRED. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING THE MATERIALS REQUIRED FOR CONSTRUCTION. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
20. IF THE CONTRACTOR CHOOSES TO IMPLEMENT APPURTENANCES OR TECHNIQUES SUCH AS TRENCH BOXES, SHEET PILING, DEWATERING, FLATTEN TRENCH SLOPES, ETC. TO FACILITATE CONSTRUCTION, THESE ITEMS SHALL BE IN INCORPORATED INTO THE COST OF THE RELATED AVAILABLE PAY ITEM AND NO ADDITIONAL COMPENSATION WILL BE MADE BY THE OWNER.
21. ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 30", 36" UNDER PAVEMENT AND A MAXIMUM OF 48" BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED.
22. ALL PROPOSED UTILITIES INCLUDING WATER MAINS AND GRAVITY MAINS ON THE PROPERTY WILL BE PRIVATELY OWNED, OPERATED AND MAINTAINED (UNLESS OTHERWISE NOTED).
23. CONTRACTOR IS TO UNCOVER ALL EXISTING UTILITY LINES BEING TIED INTO OR CROSSED AND VERIFY GRADES PRIOR TO CONSTRUCTION.
24. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE LOCATIONS, ELEVATIONS & DIMENSIONS OF THE EXISTING UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING ANY UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH INTERFACE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANIES, AND THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANIES DURING RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED. THE OWNER WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS OR THOSE OMITTED FROM THESE PLANS.
25. CONTRACTOR SHALL BE REQ

GENERAL ABBREVIATIONS

ABRV	DESCRIPTION
A/C	AIR CONDITION PAD
ACP	ASBESTOS CONCRETE PIPE
ALUM	ALUMINUM
APPROX	APPROXIMATELY
℄	BASELINE
BOTT	BOTTOM
(C)	CALCULATED
CIP	CAST IRON PIPE
℄	CENTERLINE
CONC	CONCRETE
D	DEED/DESCRIPTION
D.E.	DRAINAGE EASEMENT
DIA	DIAMETER
ELEV	ELEVATION
EOW	EDGE OF WATER
E/P	EDGE OF PAVEMENT
EXIST	EXISTING
FF	FINISHED FLOOR
FND	FOUND
FPL	FLORIDA POWER & LIGHT
GFF	GARAGE FINISHED FLOOR
HDPE	HIGH DENSITY POLYETHYLENE
I.E.	INVERT ELEVATION
IR	IRON ROD
IR&C	IRON ROD AND CAPE
IP	IRON PIPE
L	ARC LENGTH
LF	LINEAR FEET
LCEC	LEE COUNTY ELECTRIC CO-OP
(M)	MEASURED

ABRV	DESCRIPTION
NTS	NOT TO SCALE
ORB	OFFICIAL RECORDS BOOK
(P)	PLAT
P.B.	PLAT BOOK
PC	POINT OF CURVE
PCP	PERMANENT CONTROL POINT
PGS	PAGES
PI	POINT OF INTERSECTION
PK&D	PK NAIL AND DISK
PRC	POINT OF REVERSE CURVE
PROP	PROPOSED
PRM	PERMANENT REFERENCE MARKER
PSM	PROFESSIONAL SURVEY AND MAPPER
PT	POINT OF TANGENCY
PVC	POLY VINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
R.E.	RIM ELEVATION
RGE	RANGE
R/W	RIGHT OF WAY
SEC	SECTION
TOB	TOP OF BANK
TOE	TOE OF SLOPE
TOP	TOP OF PIPE
TWP	TOWNSHIP
TYP	TYPICAL
U.E.	UTILITY EASEMENT
VCP	VITRIFIED CLAY PIPE
△	DELTA
M.E.	MATCH EXISTING GRADE

GENERAL SYMBOL LEGEND

	SYMBOL	DESCRIPTION
CONTROL		BENCHMARK
		TRAVERSE POINT
PIPE FITTINGS		11.25° PIPE BEND
		22.5° PIPE BEND
		45° PIPE BEND
		90° PIPE BEND
		CROSS PIPE FITTINGS
		TEE PIPE FITTING
		WYE PIPE FITTING
		REDUCER PIPE FITTING
ELECTRICAL		GROUND LIGHT
	EJB	ELECTRICAL JUNCTION BOX
	EM	ELECTRIC METER
	EMH	ELECTRIC MANHOLE
UTILITY POLES		GUY WIRE
		GUY POLE
		LIGHT POLE
		CONCRETE UTILITY POLE
		WOOD UTILITY POLE
SAN SWR		CLEAN OUT
	SMH	SANITARY MANHOLE
		STUB OUT
		SEWER VALVE
STORM		CATCH BASIN
	SDMH	STORM DRAIN MANHOLE
	YD	YARD DRAIN
		CURB INLET
		MITERED END SECTION

	SYMBOL	DESCRIPTION
WATER/IRRIGATION		BACKFLOW PREVENTOR
		CAP/BLOW OFF
		AIR RELEASE VALVE
	FH	FIRE HYDRANT
	WM	WATER METER
	WV	WATER VALVE
		IRRIGATION CONTROL VALVE
	SPR	SPRINKLER
TREES	3"	CITRUS TREE
	3"	CYPRESS TREE
	2"	OAK TREE
	2"	PINE TREE
	2"	PALM TREE
		MANGROVE
MISCELLANEOUS		BOLLARD
		COLUMN
	MB	MAIL BOX
	FP	FLAG POLE
		HANDICAP MARKER
		MANHOLE (UNKNOWN)
		SATELLITE DISH
		SIGN
	PM	PARKING METER
	UB	UTILITY BOX
	UR	UTILITY RISER
		PARKING WHEEL STOP

STANDARD LINETYPES

LINETYPE	DESCRIPTION
	BASELINE
—X—X—	FENCE
	PROPERTY BOUNDARY
	LOT LINE
	DRAINAGE EASEMENT
	SWALE
	TOP OF BANK
	TOE OF SLOPE
	CURB
	EDGE OF PAVEMENT
	ROAD RIGHT OF WAY
	UTILITY EASEMENT
	CENTERLINE
BE	BURIED ELECTRIC
FM	FORCEMAIN
GAS	GAS
RWM	REUSE WATERMAIN
SS	SANITARY SEWER
	STORM DRAIN
WM	WATERMAIN

LINETYPE	DESCRIPTION
	EXISTING PROPERTY BOUNDARY
	EXISTING DRAINAGE EASEMENT
	EXISTING TOP OF BANK
	EXISTING TOE OF SLOPE
	EXISTING CENTERLINE
	EXISTING EDGE OF PAVEMENT
	EXISTING ROAD RIGHT OF WAY
	EXISTING UTILITY EASEMENT
	EXISTING GUARDRAIL
BE	EXISTING BURIED ELECTRIC
FM	EXISTING FORCEMAIN
FIRE	EXISTING FIREMAIN
BG	EXISTING BURIED GAS
OHW	EXISTING OVERHEAD WIRE
RWM	EXISTING REUSE WATERMAIN
SS	EXISTING SANITARY SEWER
SD	EXISTING STORM DRAIN
TEL	EXISTING BURIED TELEPHONE
WM	EXISTING WATERMAIN
IRR	EXISTING IRRIGATION MAIN

STANDARD HATCH PATTERNS

SYMBOL	DESCRIPTION
	CONCRETE
	BRICK PAVERS
	STONE/RIP RAP

SYMBOL	DESCRIPTION
	PROPOSED ASPHALT
	EXISTING PAVEMENT SEALCOAT
	DEMOLITION

NOTE: THE LEGEND SHOWN HEREON IS REPRESENTATIVE OF ALL COMPANY DRAFTING STANDARDS AND IS NOT PROJECT SPECIFIC.

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Stantec

FORT MYERS
1412 JACKSON ST., SUITE 3
FORT MYERS, Fl. 33901

Project Name:

LEE COUNTY SOLID WASTE TRANSFER STATION EMPLOYEE BUILDING

Project Address:
10450-10550
BUCKINGHAM ROAD
FORT MYERS, FL 33905

Client/Owner:
LEE COUNTY
PO BOX 398
FORT MYERS, FL 33902

Engineer Contact:

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Revisions:

SITE DATA:

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SEC-TWP-RGE	SEC 24-TWP 44S-RGE 25E

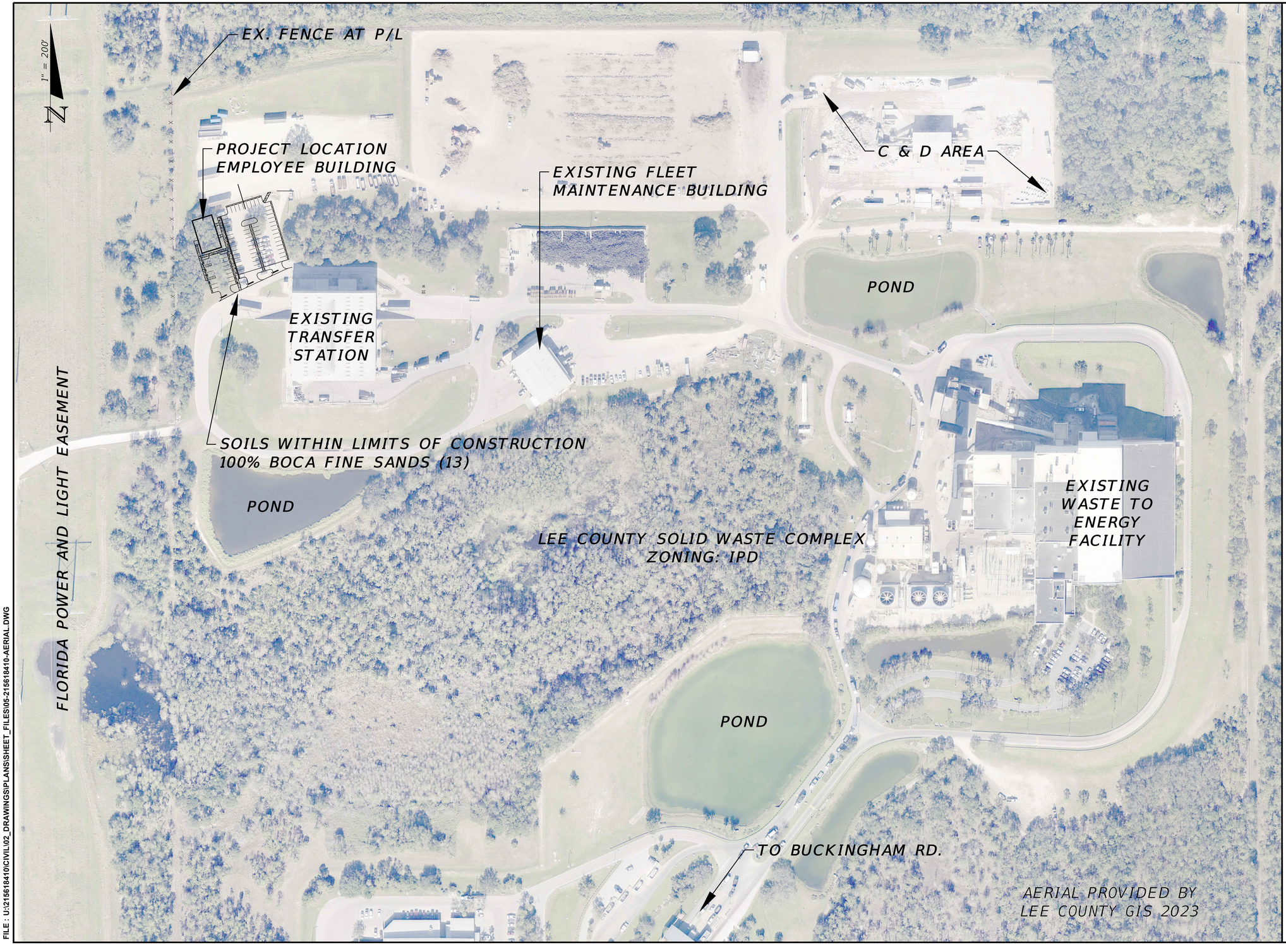
PROJECT MGR: DANIEL M. CRAIG
PROJECT # : 2156184
FILE NAME : 04-215618410-LGND.DWG
ORIGIN DATE : 01-10-2024
DESIGNER : STS
CADD : STS
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PLOT DATE : FRI, 6-14-2024-11:44 AM
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SHEET TITLE:

LEGEND AND PROJECT INFORMATION

SHEET NO. 04

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Stantec

FORT MYERS

1412 JACKSON ST., SUITE 3
FORT MYERS, Fl. 33901

Project Name:

LEE COUNTY SOLID WASTE TRANSFER STATION EMPLOYEE BUILDING

Project Address:

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BUCKINGHAM ROAD
FORT MYERS, FL 33905

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SITE DATA:

STRAP #	
SEC-TWP-RGE	SEC 24-TWP 44S-RGE 25E

PROJECT MGR:DANIEL M. CRAIG
PROJECT # :215618410
FILE NAME :05-215618410-AERIAL.DWG
ORIGIN DATE :01-10-2024
DESIGNER :STS
CADD :STS
CHECKED BY :KC
PLOT DATE :FRI, 6-14-2024-11:45 AM
PLOTTED BY :STSTUART

SHEET TITLE:

2023 AERIAL W/ PROJECT OVERLAY

SHEET NO. 05

PRELIMINARY
NOT FOR CONSTRUCTION

1" = 30'

N

1 STORY 3,372 SF
ELEVATED MODULAR BLDG.
ON PIER FOUNDATION
F.F. EL. 23.60'

16-9'X14' PARKING SPACES
(NO WHEEL STOP)

9-9'X18' PARKING SPACES
WITH WHEEL STOP

5' CONC. SIDEWALK

ADA RAMP BY ARCH.

STAIRS BY ARCH.

EXIST. LIGHT POLE
TO REMIAN

FDOT TYPE F C & G

15-9'X18' PARKING SPACES
WITH WHEEL STOP

2' BUMPER OVERHANG
BEYOND CURB

PROPOSED EOP BEARING
S 16°59'00" E

EX. CORNER OF
CONC. SLAB

12-9'X18' PARKING SPACES
WITH WHEEL STOP

2-9'X18' PARKING SPACES
WITH WHEEL STOP AND
4-12'X18' ADA PARKING
SPACES W/ 5' AISLE AND
WHEEL STOPS (SEE DTL.)

8-9'X18' PARKING SPACES
WITH WHEEL STOP

2' STOP BAR AND SIGN
(R1-1) TYP. EA. DRIVE

44.95'
10.00'
116.00'
74.95'
5.00'
7.00'
R5.00'
42.00'
R8.00'
12.00'
R4.00'
36.00'
56.00'
60.00'
135.00'
108.00'
9.00' TYP.
16.00'
18.00'
18.00' TYP.
24.00' TYP.
72.00'
76.00'
15.00'
97°52'46"
17.82'
R10.00'
1.00'

16" 8" 12" 5.00' 12" 5.00' 15.00' 14" 14" 14" 5" 12" 4" 76.00' 6" 12" 4" 10" 12" 20" 12" 12" 4" 4" 20" 12" 4" 6" 12" 14"

FILE : U:\215618410\CIVIL\02_DRAWINGS\PLANS\SHEET_FILES\06-215618410-SITE.DWG

Stantec

FORT MYERS

1412 JACKSON ST., SUITE 3
FORT MYERS, Fl. 33901

Project Name:

**LEE COUNTY
SOLID WASTE
TRANSFER STATION
EMPLOYEE BUILDING**

Project Address:

10450-10550
BUCKINGHAM ROAD
FORT MYERS, FL 33905

Client/Owner:

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FORT MYERS, FL 33902

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Project Engineer:

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SITE DATA:

STRAP #	
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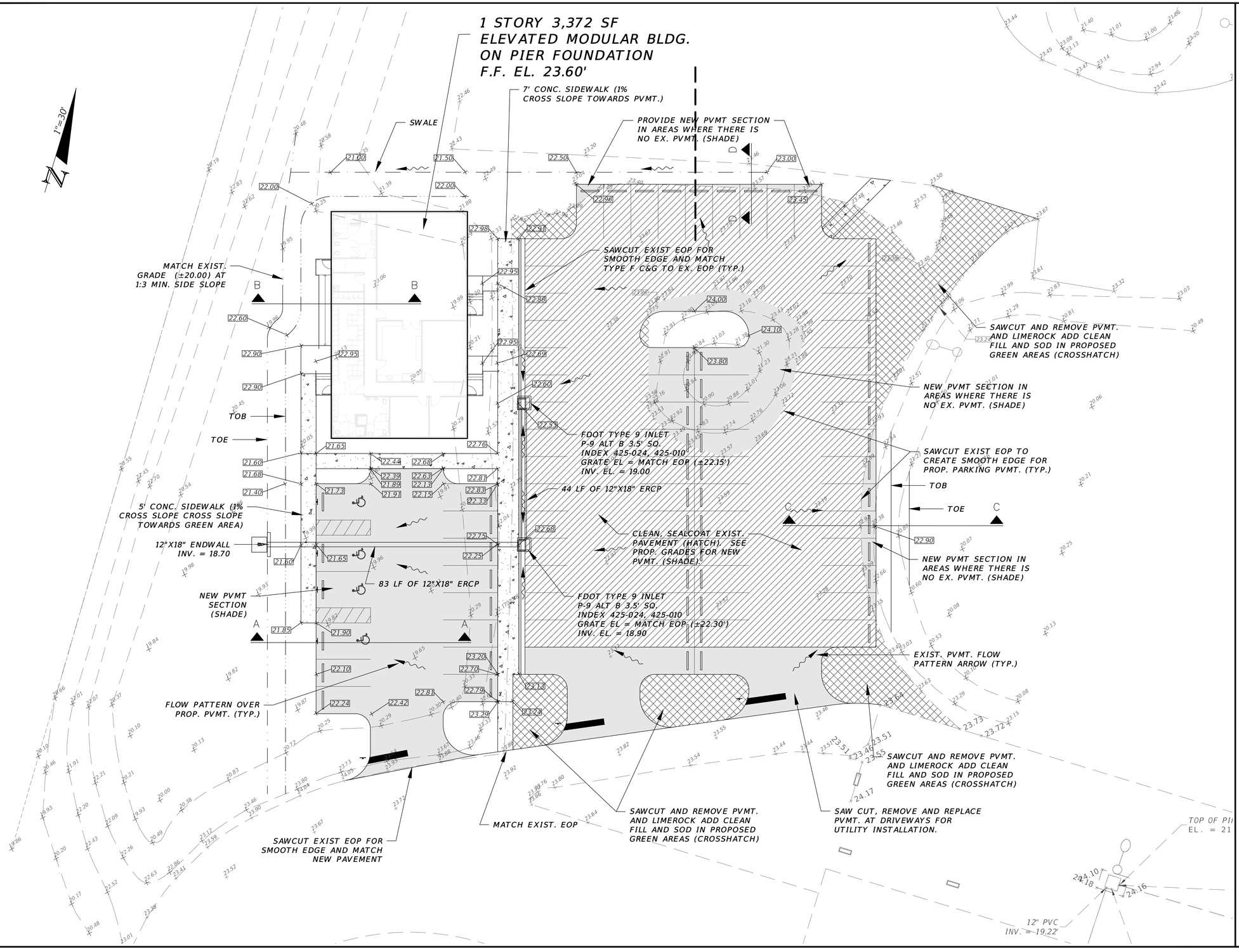
PROJECT MGR:DANIEL M. CRAIG
PROJECT # :2156184
FILE NAME :06-215618410-SITE.DWG
ORIGIN DATE :01-10-2024
DESIGNER :STS
CADD :STS
CHECKED BY :KC
PLOT DATE :FRI. 6-14-2024-11:45 AM
PLOTTED BY :STSTUART

SHEET TITLE:

SITE PLAN

SHEET NO. 06

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NOT FOR CONSTRUCTION



FILE : U:\215618410\CIVIL\02_DRAWINGS\PLANS\SHEET_FILES\07-215618410-PGD.DWG

Stantec

FORT MYERS

1412 JACKSON ST., SUITE 3
FORT MYERS, Fl. 33901

Project Name:

LEE COUNTY SOLID WASTE TRANSFER STATION EMPLOYEE BUILDING

Project Address:

10450-10550
BUCKINGHAM ROAD
FORT MYERS, FL 33905

Client/Owner:

LEE COUNTY
PO BOX 398
FORT MYERS, FL 33902

Engineer Contact:

Kristina Connelly, P.E.
Project Manager
Phone: 239-347-5508
Email: kristina.connelly@stantec.com

Project Engineer:

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY KRISTINA M. CONNELLY P.E. No.54805 ON THE DATE ADJACENT TO THE SEAL.

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STANTEC CONSULTING SERVICES INC.
1412 JACKSON ST. SUITE 3
FORT MYERS, FL 33901
KRISTINA M. CONNELLY, P.E. NO. 54805

Legal Disclaimer:

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Revisions:

SITE DATA:

STRAP #	
SEC-TWP-RGE	SEC 24-TWP 44S-RGE 25E

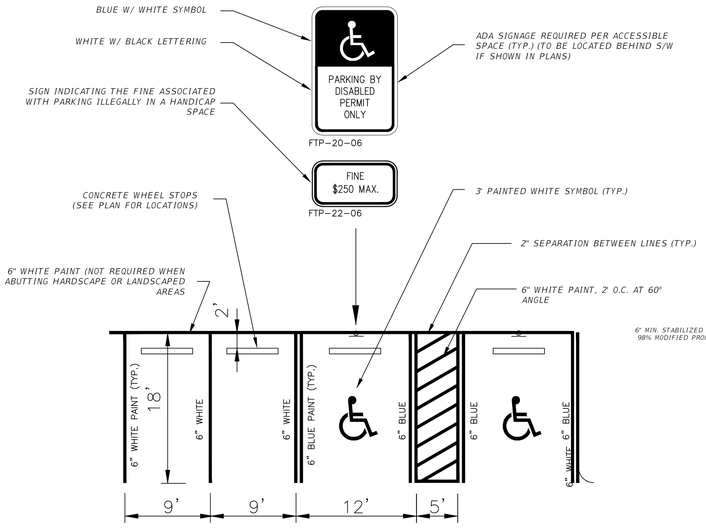
PROJECT MGR: DANIEL M. CRAIG
PROJECT # : 215618
FILE NAME : 07-215618410-PGD.DWG
ORIGIN DATE : 01-10-2024
DESIGNER : STS
CADD : STS
CHECKED BY : KC
PLOT DATE : FRI, 6-14-2024-11:45 AM
PLOTTED BY : STSTUART

SHEET TITLE:

PAVING, GRADING AND DRAINAGE PLAN

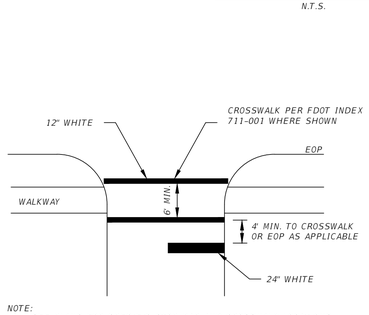
SHEET NO. 07

PRELIMINARY
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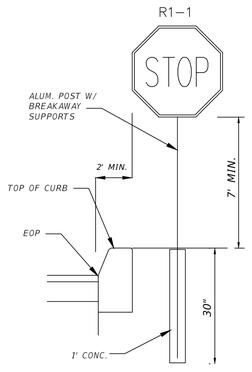
NOTE:
1. ALL DIMS. ARE TO CENTER LINE OF WHITE MARKINGS. BLUE MARKINGS ARE SUPPLEMENTAL.
2. ADDITIONAL DTL. IN FDOT INDEX 17346 (SHT. 12 OF 14) AND 17355 (SHT. 2 OF 12), FLORIDA STATUTE 553.5041 (2014) AND ADA STANDARDS FOR ACCESIBLE DESIGN.
3. SIGN TO BE MOUNTED A MINIMUM 7' ABOVE SURFACE TO BOTTOM OF SIGN.
4. ALL STRIPING PAINT TO BE ALL WEATHER PAINT MEETING FDOT SPECIFICATIONS.

TYPICAL STRIPING DETAIL
N.T.S.

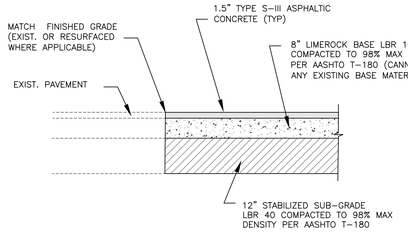


NOTE:
1. SEE PLANS FOR SPECIFIC STOP BAR AND CROSSWALK LOCATIONS.
2. ALL MARKING WITHIN THE PUBLIC RIGHT OF WAY TO BE THERMOPLASTIC.
3. IF CROSSWALK IS NOT PRESENT, STOP BAR SETBACK APPLIES TO THE EDGE OF PAVEMENT AT CROSS STREET.

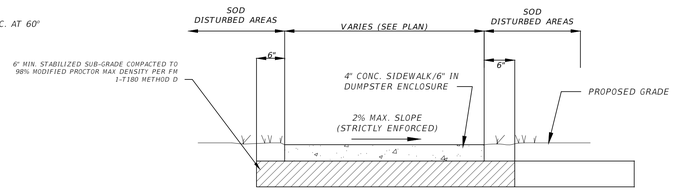
INTERSECTION MARKINGS DETAIL
N.T.S.



STOP SIGN DETAIL
N.T.S.

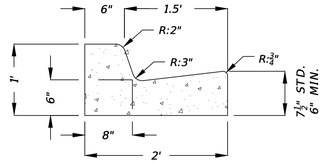


TYP. PAVEMENT SECTION
N.T.S.



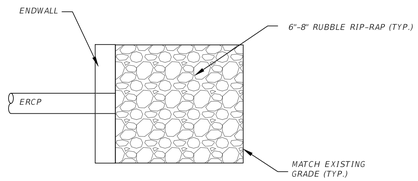
SIDEWALK/SLAB
N.T.S.

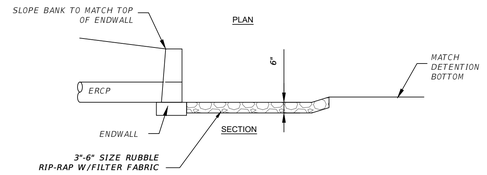
NOTES:
1. CONTRACTOR MUST SLOPE THE SIDEWALK TO DRAIN TOWARD CATCH BASINS AND CURB & GUTTER WHENEVER POSSIBLE UNLESS OTHERWISE NOTED. (SEE PGD PLAN FOR GRADES)
2. CONCRETE SPEC. ALSO APPLIES TO MISC. CONCRETE PADS (TRASH, BIKE, BENCH, ETC.) EXCLUSIVE OF CONCRETE SLABS UNDER STRUCTURES THAT ARE SPECIFIED BY OTHERS.
3. SIDEWALK SHALL HAVE CONTROL JOINTS EVERY 5' W/CONST. JOINTS EVERY 20'



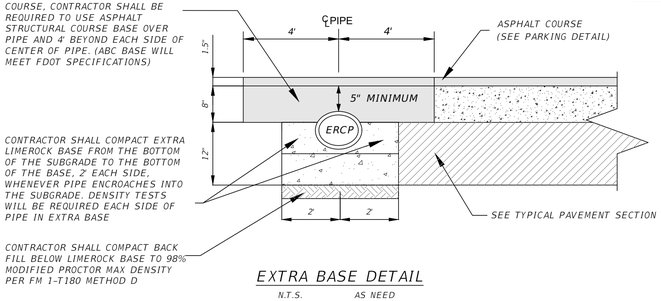
NOTES:
1. CURB MATERIAL AND CONSTRUCTION PER FDOT SPECIFICATIONS FOR CURB AND GUTTER.
2. FOR USE ADJACENT TO CONCRETE OR FLEXIBLE PAVEMENT, CONCRETE SHOWN. EXPANSION JOINT, PREFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN CURBS AND CONCRETE PAVEMENT ONLY.

TYPE "F" CURB & GUTTER
N.T.S.





ENDWALL DETAIL FOR DRY DETENTION AREA
N.T.S.



EXTRA BASE DETAIL
N.T.S. AS NEED

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PROJECT MGR:DANIEL M. CRAIG
PROJECT # :215618
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ORIGIN DATE :01-10-2024
DESIGNER :ST.S
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PLOT DATE :FRI. 6-14-2024-11:45 AM
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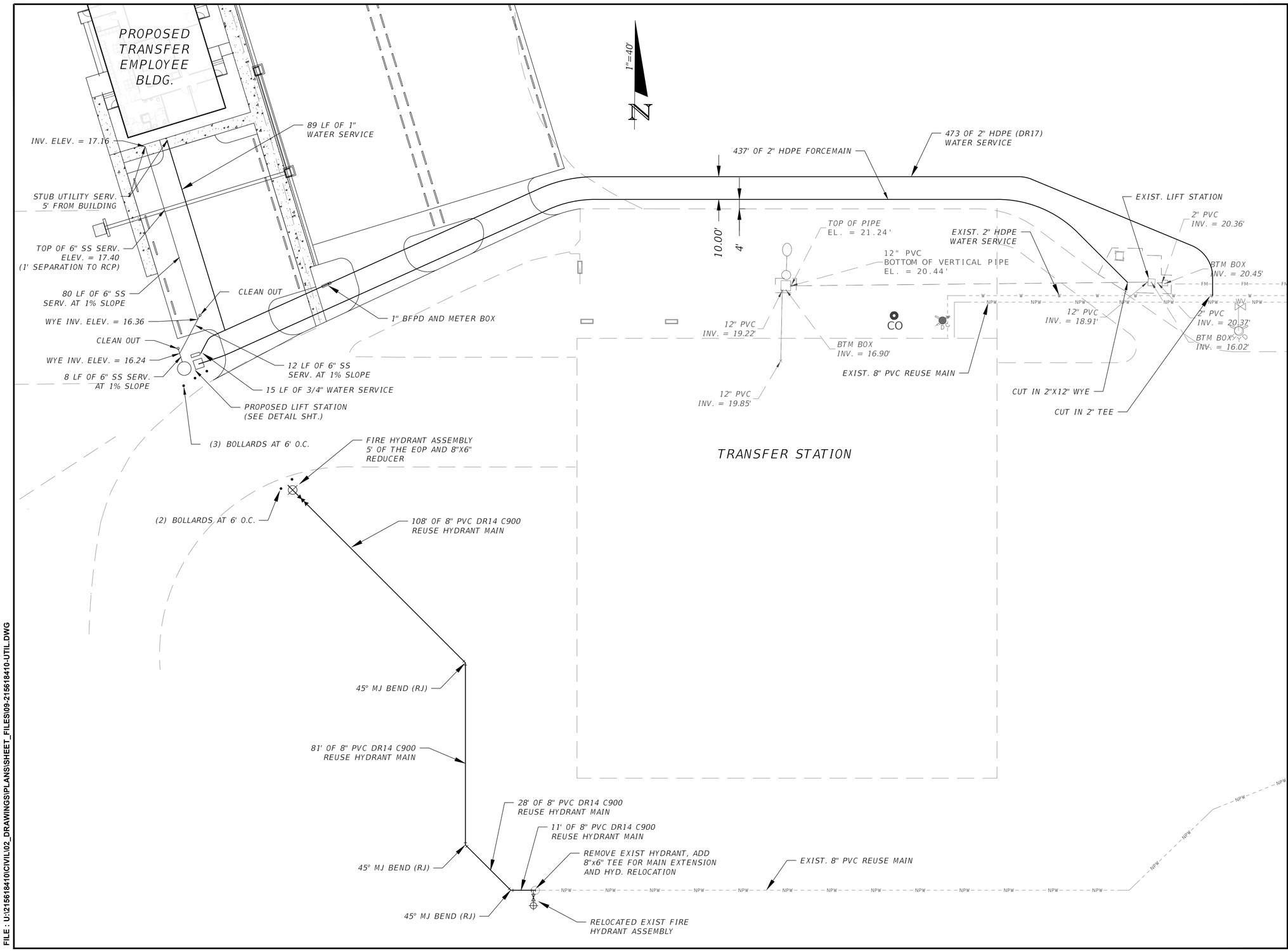
SHEET TITLE:

TYPICAL DETAILS AND SECTIONS

SHEET NO. 08

PRELIMINARY
NOT FOR CONSTRUCTION

FILE : U:\215618410\CIVIL\02_DRAWINGS\PLANS\SHEET_FILES\08-215618410-DTLS.DWG



FILE : U:\215618410\CIVIL\02_DRAWINGS\PLANS\SHEET_FILES\09-215618410-UTIL.DWG

Stantec

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Revisions:

SITE DATA:

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SEC-TWP-RGE	SEC 24-TWP 44S-RGE 25E

PROJECT MGR: DANIEL M. CRAIG
PROJECT # : 215618
FILE NAME : 09-215618410-UTIL.DWG
ORIGIN DATE : 01-10-2024
DESIGNER : STS
CADD : STS
CHECKED BY : KC
PLOT DATE : FRI, 6-14-2024-11:46 AM
PLOTTED BY : STSTUART

SHEET TITLE:

UTILITY PLAN

SHEET NO. 09

PRELIMINARY
NOT FOR CONSTRUCTION

LEE CO. UTILITIES STANDARD PLAN NOTES

THE STANDARD NOTES SHOWN BELOW SHALL BE INCLUDED ON ALL WATER AND SEWER PLANS SUBMITTED FOR APPROVAL TO LEE COUNTY UTILITIES (LCU).

1. ALL WORK SHALL CONFORM TO LATEST REVISION OF THE LCU DESIGN MANUAL WHICH IS AVAILABLE ON OUR WEB-PAGE VIA THE FOLLOWING LINK: HTTPS://WWW.LEEGOV.COM/UTILITIES/DESIGN-MANUAL

2. ALL REGULATORY AND PERMITTING AGENCIES' REQUIREMENTS SHALL BE COMPLIED WITH AS WELL.

3. ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY LCU.

4. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS THAT MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.

5. ALL CONSTRUCTION WORK PERFORMED MUST BE DONE BY A CONTRACTOR LICENSED IN THE STATE OF FLORIDA TO DO THE WORK INTENDED.

6. A PRE-CONSTRUCTION MEETING IS REQUIRED BEFORE WORK MAY BEGIN. REQUIRED ATTENDEES INCLUDE BUT ARE NOT LIMITED TO; THE ENGINEER OF RECORD OR HIS DESIGNEE, THE UNDERGROUND CONTRACTOR AND THE LCU INSPECTOR ASSIGNED TO THE PROJECT. LCU IS TO BE NOTIFIED TWO (2) WORKING DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.

7. ONE COPY OF THE LCU APPROVED/STAMPED CONSTRUCTION PLANS, ALL CONTRACT DOCUMENTS, REFERENCE DOCUMENTS AND TECHNICAL DOCUMENTS SUBMITTED MUST BE KEPT AT THE SITE AND MAINTAINED IN GOOD ORDER.

8. ALL WORK AND MATERIALS, WHICH DO NOT CONFORM TO LCU SPECIFICATIONS, ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

9. ANY WORK PERFORMED WITHOUT THE KNOWLEDGE OF LCU IS SUBJECT TO RE-EXCAVATION, REMOVAL AND REPLACEMENT OF SAME TO BE DONE AT THE CONTRACTOR'S EXPENSE.

10. LCU INSPECTION STAFF IS TO BE PRESENT FOR ALL HOT TAPS, PRESSURE TESTS, LIFT STATION START-UPS AND FOR ANY NECESSARY INSPECTION. THE CONTRACTOR IS TO PROVIDE A MINIMUM OF TWO (2) WORKING DAYS NOTICE PRIOR TO SCHEDULING ANY OF THE ABOVE WITH THE EXCEPTION OF THE LIFT STATION START-UP WHICH REQUIRES ONE-WEEK NOTICE.

11. TRAFFIC MUST BE MAINTAINED AT ALL TIMES AS PER LEE COUNTY DEPARTMENT OF TRANSPORTATION (LCDOT) AND PER FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

12. THE CONTRACTOR IS TO UNCOVER ALL EXISTING LINES BEING TIED INTO AND VERIFY GRADES BEFORE BEGINNING CONSTRUCTION.

13. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. LCU WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS OR THOSE OMITTED FROM THESE PLANS.

14. THE CONTRACTOR SHALL VERIFY ALL UTILITIES AND PROVIDE AT LEAST TWO (2) WORKING DAYS NOTICE TO THE INDIVIDUAL UTILITY COMPANIES, FDOT AND LCDOT PRIOR TO CONSTRUCTION.

15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND TAKE ALL POSSIBLE PRECAUTIONS TO AVOID ANY DAMAGE TO ALL UNDERGROUND PIPELINES, TELEPHONE, CABLE TV, ELECTRIC LINES/CONDUITS AND STRUCTURES IN ADVANCE OF ANY CONSTRUCTION. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT MAY OCCUR DUE TO HIS FAILURE TO EXACTLY LOCATE AND PROTECT EXISTING UTILITIES AND STRUCTURES.

16. ANYTHING NOT SHOWN ON THESE DRAWINGS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND SHALL NOT CONSTITUTE AN EXTRA, UNLESS APPROVED BY THE ENGINEER OF RECORD.

17. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND LCU IMMEDIATELY CONCERNING ANY CONFLICTS WITH LCU UTILITIES/STRUCTURES ARISING DURING CONSTRUCTION OF ANY FACILITIES SHOWN ON THESE DRAWINGS.

18. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THE PLANS. IF ANY DISCREPANCIES IN QUANTITIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AND LCU.

19. THE CONTRACTOR SHALL REPLACE ALL PAVEMENT, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, ETC., WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RESTORE ALL AREAS AFFECTED BY THE CONSTRUCTION TO ITS ORIGINAL CONDITION, OR BETTER.

20. WITHIN THE FDOT AND LCDOT RIGHT-OF-WAY, ALL DISTURBED AREAS SHALL RECEIVE GRASSING (SEEDING) OR SODDING MATERIALS IN ACCORDANCE WITH FDOT SPECIFICATIONS. THOSE AREAS THAT ARE CLASSIFIED AS DRAINAGE DITCHES SHALL RECEIVE FULL SOLID SOD.

21. ALL FRAMES, COVERS VALVE BOXES, METER BOXES AND MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE UPON COMPLETION OF PAVING OR RELATED CONSTRUCTION. ALL VALVE PADS SHALL BE POURED IN PLACE. NO PRE-FORMED VALVE PADS WILL BE ALLOWED.

22. APPROPRIATE TURBIDITY CONTROL DEVICES (E.G. SILT FENCES, HAY BALES) WILL BE UTILIZED DURING ALL PHASES OF INSTALLATION AND GRADING. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE NOTICE OF INTENT AND NOTICE OF TERMINATION TO THE EPA IN COMPLIANCE WITH LEE COUNTY'S NPDES PERMIT.

23. CONTRACTOR IS RESPONSIBLE FOR DEVELOPING AND MAINTAINING AN EFFECTIVE STORM WATER POLLUTION PREVENTION PLAN.

24. LCU REQUIRES 30" OF COVER FOR ALL UNDERGROUND PIPING EXCEPT UNDER PAVEMENT, WHERE 36" OF COVER IS REQUIRED. IF LCU REQUIRED COVER CANNOT BE MAINTAINED, THE CONTRACTOR SHALL PROVIDE OTHER METHODS OF CONSTRUCTION OR PIPE PROTECTION, WHICH SHALL FIRST BE APPROVED BY LCU AND THE ENGINEER, AT NO ADDITIONAL COST TO THE COUNTY. IF STATE AGENCIES REQUIRE ADDITIONAL COVER, MEETING THE REQUIREMENTS SHALL BE DONE AT NO ADDITIONAL COST TO THE COUNTY.

25. LCU REQUIRES THERE TO BE A MINIMUM OF TEN (10) FEET HORIZONTAL AND 18" VERTICAL SEPARATION BETWEEN POTABLE WATER & SANITARY SEWER MAINS. LCU ALSO REQUIRES MINIMUM OF TEN (10) FEET HORIZONTAL SEPARATION BETWEEN OTHER PUBLIC AND/OR PRIVATE UTILITIES, STRUCTURE(S), BUILDING(S), WALL(S), FOUNTAIN(S), FENCE(S) AND LCU INFRASTRUCTURE UNLESS SPECIFICALLY APPROVED BY LCU.

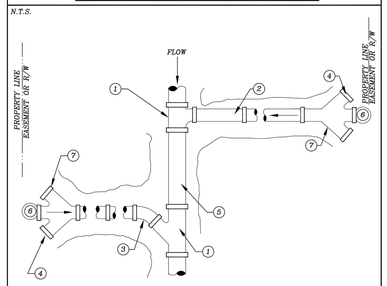
26. LCU REQUIRES THERE TO BE A MINIMUM OF FIVE (5) FEET HORIZONTAL SEPARATION BETWEEN LCU INFRASTRUCTURE AND DRAINAGE INFRASTRUCTURE, MITERED END SECTIONS, INLETS, ETC. LCU ALSO REQUIRES MINIMUM OF FIVE (5) FEET HORIZONTAL SEPARATION BETWEEN LCU INFRASTRUCTURE AND ALL NEW LIGHT POLE FOUNDATIONS.

27. THE ROOT BALL OF PALM TREES SHALL BE A MINIMUM OF FIVE (5) FEET AND THE ROOT BALL OF SHADE TREES SHALL BE A MINIMUM OF TEN (10) FEET FROM ANY EXISTING OR PROPOSED LCU OWNED AND MAINTAINED PIPE/INFRASTRUCTURE.

28. AS THE WORK PROGRESSES THE CONTRACTOR SHALL RECORD ALL CHANGES AND DEVIATIONS FROM THE LCU STAMPED/APPROVED CONSTRUCTION PLANS. IN ADDITION, HE SHALL RECORD THE EXACT LOCATION OF ALL CHANGES IN VERTICAL AND HORIZONTAL ALIGNMENT WITH COORDINATES WITH RESPECT TO THE NAVD 1988 STATE PLANE FLORIDA WEST COORDINATE SYSTEM AS WELL AS ALL REQUIREMENTS SET FORTH IN THE LCU DESIGN MANUAL. THIS INFORMATION IS TO BE FORWARDED TO THE ENGINEER OF RECORD WHO PREPARED, SIGNED AND SEALED THE APPROVED CONSTRUCTION PLANS SO THAT HE CAN PREPARE 'RECORD DRAWINGS' PER THE REQUIREMENTS SET FORTH IN THE LCU DESIGN MANUAL.

STANDARD DETAIL NO. 6.38
LEE COUNTY UTILITIES
STANDARD SEWER SERVICE LATERALS

N.T.S.



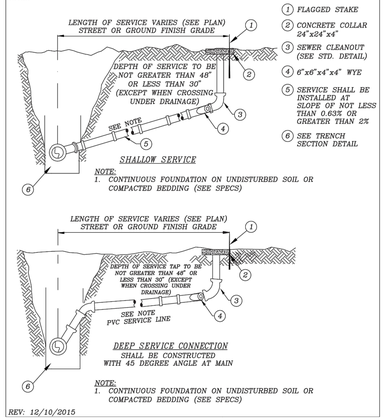
NOTE: 1. SEE SPECS FOR DETAILS OF PIPE AND FITTINGS.

1. STANDARD WYE OR SANITARY TEE
2. PVC SEWER SERVICE LINE
3. SHORT RADIUS 45° BEND WITH WYE FITTINGS
4. PLUG ENDS WITH HEAVY WALL PVC CAPS (TYP.)
5. 5' MIN. PIPE BETWEEN FITTINGS
6. 6" OR 8" CLEANOUT
7. DOUBLE 45° WYE (SIZE TBD)

REV: 08/28/2019

STANDARD DETAIL NO. 6.39
LEE COUNTY UTILITIES
STANDARD SEWER SERVICE LATERAL

N.T.S.

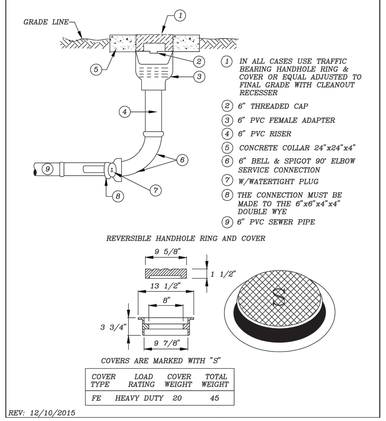


1. FLAGGED STAKE
2. CONCRETE COLLAR 24"x24"x4"
3. SEWER CLEANOUT (SEE STD. DETAIL)
4. 6"x6"x4"x4" WYE
5. SERVICE SHALL BE INSTALLED AT SLOPE OF NOT LESS THAN 0.63% OR GREATER THAN 2%
6. SEE TRENCH SECTION DETAIL

REV: 12/10/2015

STANDARD DETAIL NO. 6.40
LEE COUNTY UTILITIES
6" SEWER CLEAN-OUT DETAIL

N.T.S.



1. IN ALL CASES USE TRAFFIC BEARING HANDHOLE RING & COVER OR EQUAL ADJUSTED TO FINAL GRADE WITH CLEANOUT RECESSER
2. 6" THREADED CAP
3. 6" PVC FEMALE ADAPTER
4. 6" PVC RISER
5. CONCRETE COLLAR 24"x24"x4"
6. 6" BELL & SPIGOT 90° ELBOW SERVICE CONNECTION
7. W/WATERTIGHT PLUG
8. THE CONNECTION MUST BE MADE TO THE 6"x6"x4"x4" DOUBLE WYE
9. 6" PVC SEWER PIPE

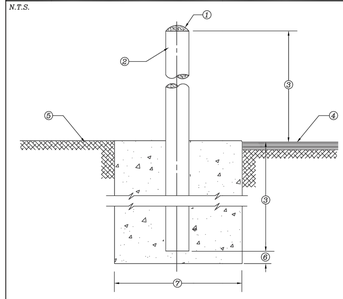
COVERS ARE MARKED WITH "S"

COVER TYPE	LOAD RATING	COVER WEIGHT	TOTAL WEIGHT
FE	HEAVY DUTY	20	45

REV: 12/10/2015

STANDARD DETAIL NO. 6.44
LEE COUNTY UTILITIES
BOLLARD POST DETAIL

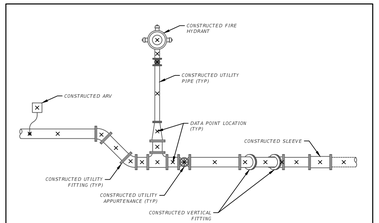
N.T.S.



1. FILL AND TOP PIPE WITH CONCRETE
2. 6" DIA. x 6'-0" LONG PRESSURE CLASS 350 DUCTILE IRON PIPE
3. 3'-0" MINIMUM
4. PAVEMENT
5. FINISHED GRADE
6. 9"
7. 18" DIA. CONCRETE ENCASEMENT 3000 P.S.I.

NOTE:
1. PAINT BOLLARD TO LCU STANDARDS

REV: 12/10/2015



PLAN VIEW

AS-BUILT COLLECTION NOTES:

1. CONTRACTOR SHALL COLLECT POINT DATA AT:
   - ALL CONSTRUCTED UTILITY PIPE FITTINGS, APPURTENANCES, CHANGE IN DIRECTION, ETC.
   - ALL CONSTRUCTED UTILITY PIPE BETWEEN FITTINGS, APPURTENANCES, ETC.
   - ALONG CONSTRUCTED UTILITY PIPE AT NO MORE THAN 100' INTERVALS ALONG CONTINUOUS CONSTRUCTED UTILITY PIPE TO REPRESENT HORIZONTAL AND VERTICAL LOCATION.
2. ALL COLLECTED POINT DATA SHALL INCLUDE UTILITY PIPE SIZE, TYPE, WALL THICKNESS (I.E. DR14, DR18, DR9, CL200, ETC.) & VERTICAL ELEVATION AS WELL AS MANUFACTURER AND DATE INSTALLED.

*** ABOVE SAMPLE EXHIBIT IS FOR REFERENCE ONLY, AS-BUILT POINT DATA COLLECTION SHALL COMPLY WITH TECHNICAL SPECS PROVIDED IN THE CONTRACT DOCUMENTS AND UTILITY COMPANY'S REQUIRED SPECIFICATIONS, WHICHEVER IS MORE INCLUSIVE.**

DATE: 1/2018	AS-BUILT POINT COLLECTION LOCATION EXHIBIT	SCALE: N.T.S.

FILE : U:\215618410\CIVIL\02_DRAWINGS\PLANS\SHEET_FILES\10-215618410-UTIL-DTLS.DWG

Stantec

FORT MYERS
1412 JACKSON ST., SUITE 3
FORT MYERS, Fl. 33901

Project Name:

LEE COUNTY SOLID WASTE TRANSFER STATION EMPLOYEE BUILDING

Project Address:

10450-10550
BUCKINGHAM ROAD
FORT MYERS, FL 33905

Client/Owner:

LEE COUNTY
PO BOX 398
FORT MYERS, FL 33902

Engineer Contact:

Kristina Connelly, P.E.
Project Manager
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Email: kristina.connelly@stantec.com

Project Engineer:

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STANTEC CONSULTING SERVICES, INC.
1412 JACKSON ST., SUITE 3
FORT MYERS, FL 33901
KRISTINA M. CONNELLY, P.E. NO. 54805

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Revisions:

SITE DATA:

STRAP #	
SEC-TWP-RGE	SEC 24-TWP 44S-RGE 25E

PROJECT MGR:DANIEL M. CRAIG
PROJECT # :2156184
FILE NAME :10-215618410-UTIL-DTLS.DWG
ORIGIN DATE :01-10-2024
DESIGNER :STS
CADD :STS
CHECKED BY :KC
PLOT DATE :FRI, 6-14-2024-11:46 AM
PLOTTED BY :STSTUART

SHEET TITLE:

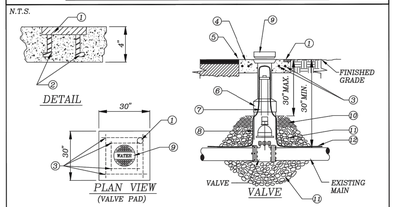
UTILITY DETAILS

SHEET NO. 10

PRELIMINARY
NOT FOR CONSTRUCTION

STANDARD DETAIL NO. 6.2
LEE COUNTY UTILITIES
VALVE INSTALLATION

N.T.S.

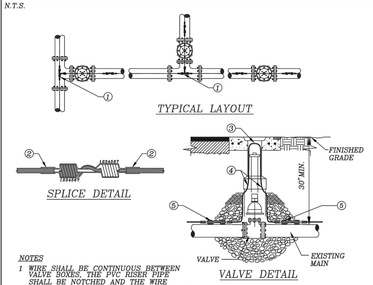


1. BRASS PLATE: SIZE OF VALVE, VALVE TYPE No. OF TURNS & DIRECTION TO OPEN VALVE M.F.G. & YEAR INSTALL SYSTEM "WATER" OR "SEWER" OR "REUSE" OR "FIRE"
2. ANCHOR
3. EIGHT (8) #4 BARS OVERLAP EACH CORNER BY 2"
4. 30"SQ X 4" THK.CONC.PAD SURROUNDING BOX, MIN. 3,000 P.S.I. POURED IN PLACE
5. SET TOP OF BOX FLUSH WITH FINISHED GRADE
6. HEAVY DUTY TRAFFIC BEARING CAST IRON VALVE BOX, ADJUSTABLE SCREW TYPE, 5 1/4" DIAMETER SHAFT THAT IS LCU APPROVED
7. EXTENSION STEM WITH 2" OPERATING NUT AS REQUIRED, IF NUT IS MORE THAN 30" BELOW FINISH GRADE
8. RISER NOT TO BEAR ON VALVE OR PIPE
9. CAST IRON DROP COVER MARKED "WATER" OR "SEWER" OR "REUSE OR "FIRE"
10. COMPACTED SUITABLE EARTH BACKFILL
11. 3/4" GRANULAR MATERIAL #57 STONE
12. 12 GAUGE DOUBLE INSULATED COPPER LOCATING WIRE (SEE LCU STANDARD DETAIL)

REV: 12/10/2015

STANDARD DETAIL NO. 6.3
LEE COUNTY UTILITIES
LOCATING WIRE FOR PRESSURE MAINS

N.T.S.



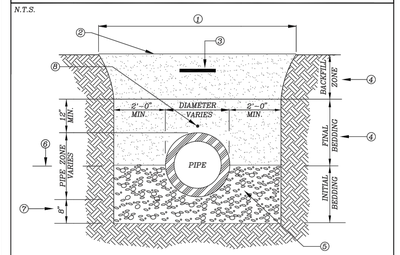
NOTES
1. WIRE SHALL BE CONTINUOUS BETWEEN VALVE BOXES. THE PVC RISER PIPE SHALL BE NOTCHED AND THE WIRE ATTACHED TO THE RISER PIPE TO ALLOW FOR THE WIRE TO FIT INSIDE THE CAST IRON VALVE BOX WITHOUT SHEARING THE WIRE.
2. LOCATING WIRE SHALL BE LAID ON TOP OF THE MAIN AND SHALL BE TAPED TO IT AT 10' INTERVALS AND TAPED AT ALL FITTINGS. TAPE SHALL BE 10 MIL POLYETHYLENE.
3. CONTRACTOR SHALL CONDUCT A CONTINUITY TEST ON ALL LOCATING WIRE SPLICES PRIOR TO SCHEDULING THE OFFICIAL FINAL INSPECTION WITH LCU.
4. ALL SPLICES SHALL UTILIZE A DIRECT BURY WATERPROOF SPLICE KIT. (SEE APPROVED MATERIAL LIST)

1. SPLICE RUN TOGETHER, KEEP CLEAR OF FITTING, TYPICAL
2. COVER SPLICE WITH 2 WRAPS OF 10 MIL. POLYETHYLENE TAPE
3. 6" LOOP OF BARE WIRE 6" MAX. DEPTH TO TOP OF BARE WIRE
4. 12 GAUGE DOUBLE INSULATED COPPER LOCATING WIRE
5. SPLICE (SEE DETAIL THIS SHEET)

REV: 12/10/2015

STANDARD DETAIL NO. 6.5
LEE COUNTY UTILITIES
TRENCH CROSS SECTION

N.T.S.

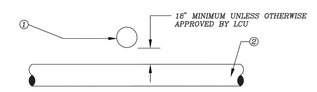


1. EXCAVATED TRENCH
2. FINISHED GRADE
3. MARKING TAPE 12" DEPTH MAX.
4. MATERIALS CLEAN DRY SAND, FINE LIME ROCK OR PIT SHELL MECHANICALLY COMPACTED IN 6" LIFTS TO AT LEAST 95% OF MAX. DENSITY, OR 98% IF UNDER PAVED AREA OF ROADWAY.
5. #57 STONE LOCATED UNDER PIPE OR EXISTING UNDISTURBED SUITABLE MATERIAL
6. SPRING LINE
7. STANDARD 6" MIN TRENCH UNDERCUT AND BACKFILL WITH #57 STONE COMPACTED IN 6" LIFTS ADDITIONAL UNDERCUT AND CRUSHED ROCK BEDDING FOUNDATION WHEN DIRECTED BY L.C.U. THE CONTRACTOR IS TO REMOVE UNSTABLE MATERIAL FROM THE TRENCH FOUNDATION. THEN INSTALL STABILIZED CRUSHED ROCK BACKFILL WITH #57 STONE COMPACTED IN 6" LIFTS
8. LOCATING WIRE IS REQUIRED FOR ALL PRESSURIZED PIPELINES.

REV: 12/10/2015

STANDARD DETAIL NO. 6.8
LEE COUNTY UTILITIES
WATER AND SEWER CROSSING DETAIL

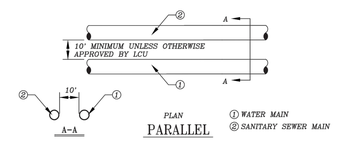
N.T.S.



1. WATER MAIN
2. SANITARY SEWER MAIN

NOTE: IF LESS THAN 18" CLEARANCE ENCASE WATER MAIN IN STEEL CASING

N.T.S.



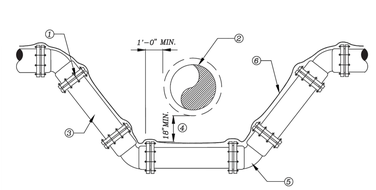
1. WATER MAIN
2. SANITARY SEWER MAIN

NOTE: IF LESS THAN 10" CLEARANCE ENCASE WATER MAIN IN STEEL CASING

REV: 12/10/2015

STANDARD DETAIL NO. 6.10
LEE COUNTY UTILITIES
WATER PRESSURE LINE VERTICAL OFFSET W/ DUCTILE IRON MJ FITTINGS & PIPE

N.T.S.



1. LCU APPROVED JOINT RESTRAINT FOR D.I., M.J. PIPE AND FITTINGS PLACED IN ACCORDANCE WITH JOINT RESTRAINT SCHEDULE. (SEE DETAIL 6.12)
2. CONFLICT PIPE
3. LCU APPROVED DUCTILE IRON PIPING PRESSURE CLASS 350
4. 18" MIN. UNLESS OTHERWISE APPROVED BY LCU
5. 45° MECHANICAL JOINT FITTING, TYPICAL
6. 12 GAUGE DOUBLE INSULATED COPPER WIRE (SEE LCU STANDARD DETAIL)

REV: 12/10/2015

STANDARD DETAIL NO. 6.12
LEE COUNTY UTILITIES
RESTRAINED LENGTH SCHEDULE

N.T.S.

DUCTILE IRON PIPE

PIPE SIZE (Inches)	MINIMUM RESTRAINED PIPE LENGTH (FEET)					
	HORIZONTAL BENDS				DEAD END	HORIZONTAL TEE
	90°	45°	22-1/2°	11-1/4°		
4	17	7	4	2	29	6
6	23	10	5	2	40	17
8	29	12	6	3	53	29
10	35	14	7	4	63	38
12	41	17	8	4	74	49
16	51	21	11	5	94	68
24	69	29	14	7	131	105
30	81	34	17	8	156	129

PVC PIPE

PIPE SIZE (Inches)	MINIMUM RESTRAINED PIPE LENGTH (FEET)					
	HORIZONTAL BENDS				DEAD END	HORIZONTAL TEE
	90°	45°	22-1/2°	11-1/4°		
4	20	8	4	2	45	8
6	29	12	6	3	63	25
8	36	15	8	4	83	43
10	44	18	9	5	99	58
12	51	21	11	5	116	74
16	63	26	13	7	149	103
24	87	36	18	9	206	156
30	102	42	21	10	248	194

A COMPLETE JOINT RESTRAINING SCHEDULE FOR ALL ENCOUNTERED VERTICAL & HORIZONTAL BENDS, VERTICAL OFFSETS, TEES, AND DEAD ENDS SHALL BE THE RESPONSIBILITY OF THE DESIGN ENGINEER.

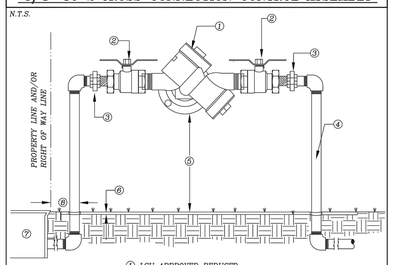
LENGTH FIGURES BASED ON FOLLOWING:

Pressure = 150 psi, FS = 1.5, trench type = 3, 30" cover on Bare pipe, Soil type = GP & SP

REV: 12/10/2015

STANDARD DETAIL NO. 6.19
LEE COUNTY UTILITIES
3/4" TO 2" CROSS CONNECTION CONTROL ASSEMBLY

N.T.S.



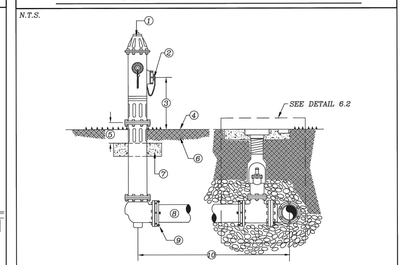
1. LCU APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE (SEE APPROVED MATERIAL LIST)
2. FULL FLOW BRONZE BALL VALVE
3. UNION
4. ALL PIPING AND FITTINGS SHALL BE BRASS OR COPPER
5. 12"MIN.-24"MAX. UNLESS OTHERWISE APPROVED BY LCU
6. FINISHED GRADE
7. METER BOX
8. 2' MAXIMUM

NOTES: 1. UNIONS REQUIRED
2. INITIAL AND ANNUAL DEVICE TESTING REQUIRED

REV: 12/10/2015

STANDARD DETAIL NO. 6.24
LEE COUNTY UTILITIES
FIRE HYDRANT ASSEMBLY

N.T.S.

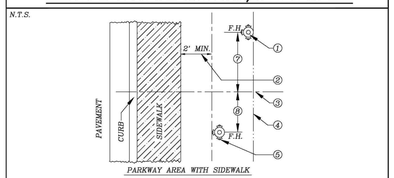


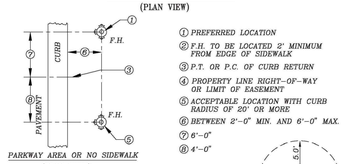
1. FIRE HYDRANT: STANDARD A.W.W.A. SAFETY YELLOW (SEE APPROVED MATERIAL LIST)
2. PUMPER CONNECTION FACING AS PER FIRE DISTRICT RECOMMENDATION
3. 18" MIN. – 24" MAX.
4. FINISHED GRADE
5. 6" MIN. CLEARANCE
6. COMPACTED FILL
7. 20" X 20" X 4" CONCRETE BREAK AWAY CONCRETE PAD, 3000 P.S.I.
8. PIPE TO BE D.I.P., PRESSURE CLASS 350
9. RESTRAINED JOINTS, FROM HYDRANT TO WATER MAIN
10. VARIABLE DISTANCE, IF GREATER THAN 100' A VALVE SHALL BE INSTALLED AT HYDRANT BASE

REV: 12/10/2015

STANDARD DETAIL NO. 6.25
LEE COUNTY UTILITIES
FIRE HYDRANT LOCATIONS/CLEARANCE

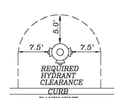
N.T.S.





1. PREFERRED LOCATION
2. F.H. TO BE LOCATED 2' MINIMUM FROM EDGE OF SIDEWALK
3. P.T. OR P.C. OF CURB RETURN
4. PROPERTY LINE RIGHT-OF-WAY OR LIMIT OF EASEMENT
5. ACCEPTABLE LOCATION WITH CURB RADIUS OF 20' OR MORE
6. BETWEEN 2'-0" MIN. AND 6'-0" MAX.
7. 6'-0"
8. 4'-0"

NOTES
1. OBSTRUCTIONS SUCH AS UTILITY POLES, STREET SIGNS, IRRIGATION BOXES, FENCES, ETC. SHALL NOT BE PLACED BETWEEN CURB AND HYDRANT.
2. SOME LOCATIONS APPLY AT EITHER END OF CURB RETURNS.
3. DIMENSION SHOWN ON CONSTRUCTION DRAWINGS SUPERCEDE LOCATIONS SHOWN HERE.



REV: 12/10/2015

Stantec

FORT MYERS
1412 JACKSON ST., SUITE 3
FORT MYERS, Fl. 33901

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KRISTINA M. CONNELLY
No.54805
STATE OF FLORIDA
ENGINEER

ON THE DATE ADJACENT TO THE SEAL.
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Revisions:

SITE DATA:

STRAP #	
SEC-TWP-RGE	SEC 24-TWP 44S-RGE 25E

PROJECT MGR:DANIEL H. CRAIG
PROJECT # :215618410
FILE NAME :I:\215618410\CIVIL\02_DRAWINGS\PLANS\SHEET_FILES\11-215618410-UTIL-DTLS.DWG
ORIGIN DATE:01-10-2024
DESIGNER :STS
CADD :STS
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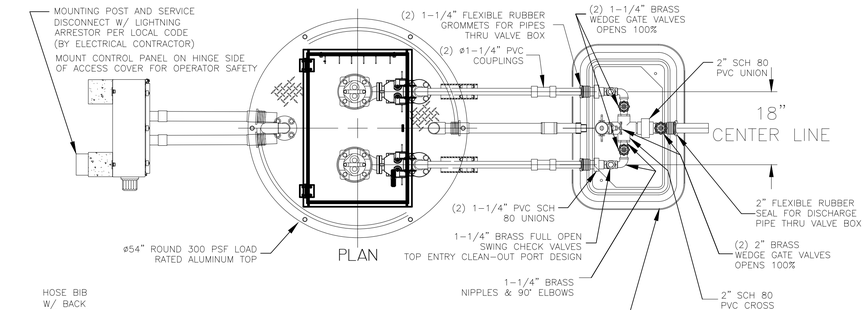
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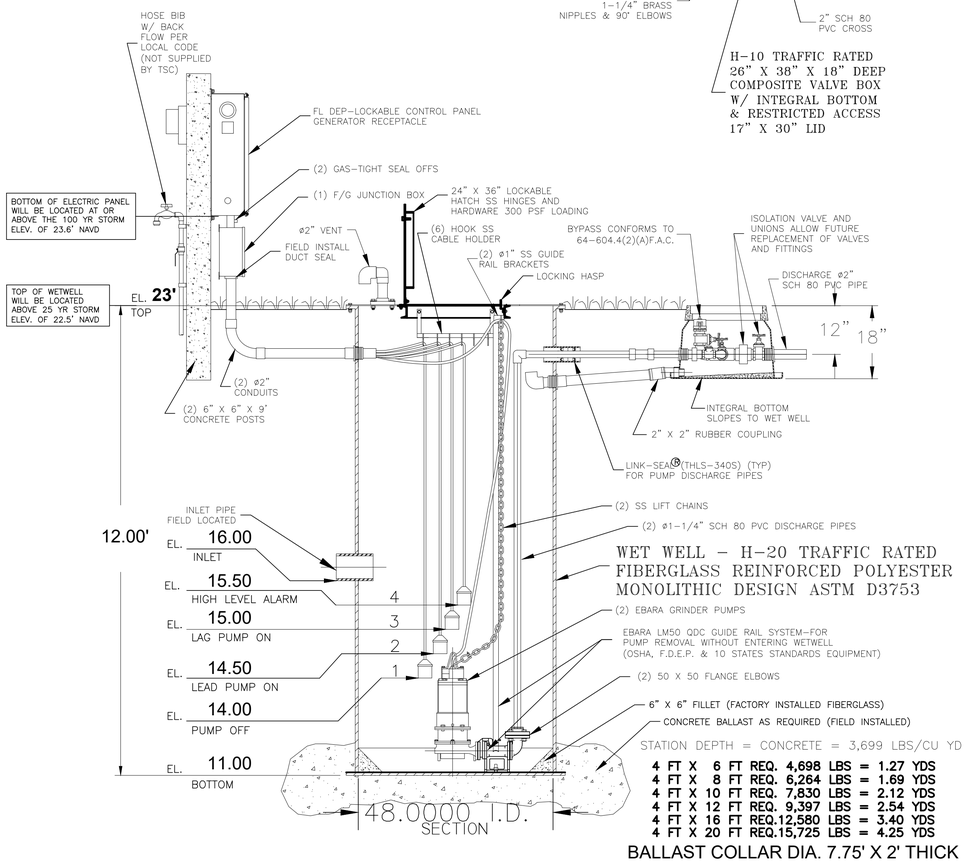
UTILITY DETAILS

SHEET NO. 11

PRELIMINARY
NOT FOR CONSTRUCTION

FILE : U:\215618410\CIVIL\02_DRAWINGS\PLANS\SHEET_FILES\11-215618410-UTIL-DTLS.DWG





STATION DEPTH = CONCRETE = 3,699 LBS/CU YD

4 FT X 6 FT REQ. 4,698 LBS = 1.27 YDS
4 FT X 8 FT REQ. 6,264 LBS = 1.69 YDS
4 FT X 10 FT REQ. 7,830 LBS = 2.12 YDS
4 FT X 12 FT REQ. 9,397 LBS = 2.54 YDS
4 FT X 16 FT REQ.12,580 LBS = 3.40 YDS
4 FT X 20 FT REQ.15,725 LBS = 4.25 YDS

BALLAST COLLAR DIA. 7.75' X 2' THICK

EBARA SEWAGE GRINDER PUMP
48" DUPLEX GRINDER STATION - 1.25" PIPING WITH SLIDE RAIL SYSTEM, V.B. AND F.D.E.P. PANEL TSC PRE-FAB PUMP SOLUTIONS©

MODEL
TSC2-48.3 R9.dwg ©

2. GROUT FILLET (1 TO 1 SLOPE TO "HOPPER" BOTTOM)
1. HOSE BIBB WITH REDUCED PRESSURE BACK FLOW PREVENTER FIELD INSTALL BY CONTRACTOR

JOB: _____

QS: _____

GENERAL NOTES

FURNISH AND INSTALL EBARA SUBMERSIBLE GRINDER PUMPS:

DESIGN CONDITION:

MODEL	32 DGFM	2	HP
GPM	21	19.5	FT/TDH
VOLTAGE	240	1	PHASE
DISCHARGE	1.25"	95 MM	IMPELLER

SEWAGE GRINDER PUMP: RATED FOR TWENTY (20) STARTS PER HOUR.

2. AIR FILLED MOTOR DESIGNED FOR SEWAGE APPLICATION WITH CLASS F INSULATION.
3. DUAL MECHANICAL SHAFT SEALS (SILICON CARBIDE / SILICON CARBIDE) LOCATED OUT OF THE PUMPAGE, IN A SEPARATE OIL FILLED CHAMBER.
4. HIGH TEMPERATURE BALL BEARINGS B-10 RATING OF 60,000 HOURS, UPPER BEARING - SINGLE ROW AND LOWER BEARINGS - DOUBLE ROW TYPE.
5. PUMP SHAFT HORSEPOWER (BHP) SHALL NOT EXCEED MOTOR RATED HORSEPOWER THROUGHOUT THE ENTIRE OPERATING RANGE OF THE PUMP PERFORMANCE CURVE.
6. SINGLE PHASE MOTORS SHALL BE DUAL WOUND, CAPACITOR START-RUN AND CAPABLE OF OPERATING ON 208/230 VOLT WITH A 10% TOLERANCE VOLTAGE (190 TO 260). THREE PHASE MOTORS SHALL BE DUAL WOUND AND CAPABLE OF OPERATING ON 208/230 VOLT WITH A 10% TOLERANCE VOLTAGE (190 TO 260) OR OPERATE ON 460 VOLT BY CHANGING THE MOTOR LEADS INSIDE THE PUMP.

FIBERGLASS WET WELL: SHALL BE A ONE PIECE UNIT WITH INTEGRAL BOTTOM, WALL AND UPPER FLANGE. THE ENTIRE FIBERGLASS WET WELL SHALL HAVE A DYNAMIC LOAD RATING OF 16,000 FT/LBS. EACH UNIT MUST BE SERIAL NUMBERED TO IDENTIFY THE TEST PROCEDURE. ASTM D 3753 & H-20 SPECIFICATIONS SHALL BE REQUIRED AS MINIMUM.

ALUMINUM HATCH: TSC MODEL-54R (54") ROUND WITH 24" X 36" LOCKABLE HATCH, REINFORCED FOR LOAD RATING OF 300 LBS/FT WITH HOLD OPEN SAFETY ARM, LOCKING DEVICE FOR HASP TYPE PADLOCK AND STAINLESS STEEL HARDWARE.

VALVE BOX: FIBERGLASS COMPOSITE (H-10 TRAFFIC RATED) WITH INTEGRAL BOTTOM. (FOR 1 1/4" AND 2" DISCHARGE PIPING SXS HEADER SYSTEM) SHALL BE 26" X 38" X 18" WITH 17" X 30" LIMITED ACCESS LID

ACCESSORIES: #304 S/S - GUIDE RAILS, UPPER GUIDE RAIL BRACKETS, CABLE HOLDER, ANCHOR BOLTS AND PUMP LIFTING CHAINS.

VALVES : SHALL BE SEWAGE SERVICE DESIGN BRASS SWING CHECK VALVES WITH TOP ENTRY CLEAN-OUT PORT AND BRASS WEDGE GATE VALVES OPEN 100%.

PIPING: 1-1/4" SCHEDULE 80 PVC.

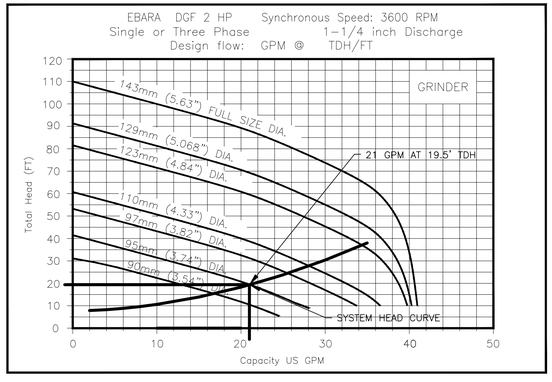
FLOAT SWITCHES: UL LISTED SJ ELECTRO MODEL (SJ 30 SWENO).

PUMP SUPPLIER SHALL PROVIDE SUBMERSIBLE PUMPS, SLIDE RAIL ASSEMBLIES, CONTROL PANEL, JUNCTION BOX, FLOAT SWITCHES, ALUMINUM HATCH AND ACCESSORIES TO INSURE PROPER OPERATION AND WARRANTY.

THE COMPLETE PACKAGE PUMPING STATION SHALL HAVE PUMP BASES, SLIDE RAIL ASSEMBLIES AND DISCHARGE PIPING ASSEMBLED BY TECHNICAL SALES CORPORATION READY TO SHIP FOR FIELD INSTALLATION.

THE MANUFACTURER OF PRE-FAB PUMP SOLUTIONS©:
TECHNICAL SALES CORPORATION, 4621 N. HALE AVE TAMPA, FL 33614 (813)876-9256

Ebara Submersible Pumps



PUMP PERFORMANCE CURVE

SEE PLANS PREPARED BY ------- FOR PANEL MOUNTING AND ELECTRICAL DESIGN SPECIFICATIONS

48" DUPLEX GRINDER STATION-1.25" PIPING W/ SLIDE RAIL SYSTEM, V/BOX AND F.D.E.P. PANEL TSCE2-48.3 R9

TSC DUPLEX GRINDER PUMP STATION
FIBERGLASS WET WELL

TECHNICAL SALES CORPORATION
TSC PRE-FAB PUMP SOLUTIONS©
WATERWORKS & WASTEWATER SPECIALTIES
Representing Innovative Manufacturers
MODEL TSCE2-48.3©
4621 N. HALE AVENUE PH (813)876-9256
TAMPA, FL 33614 FAX (813)874-1194
EMAIL: Sales@TSCTampa.com
REV-9 SCALE: N.T.S.

Stantec

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PLOT DATE :FRI, 6-14-2024-1:05 PM
PLOTTED BY :STSTUART

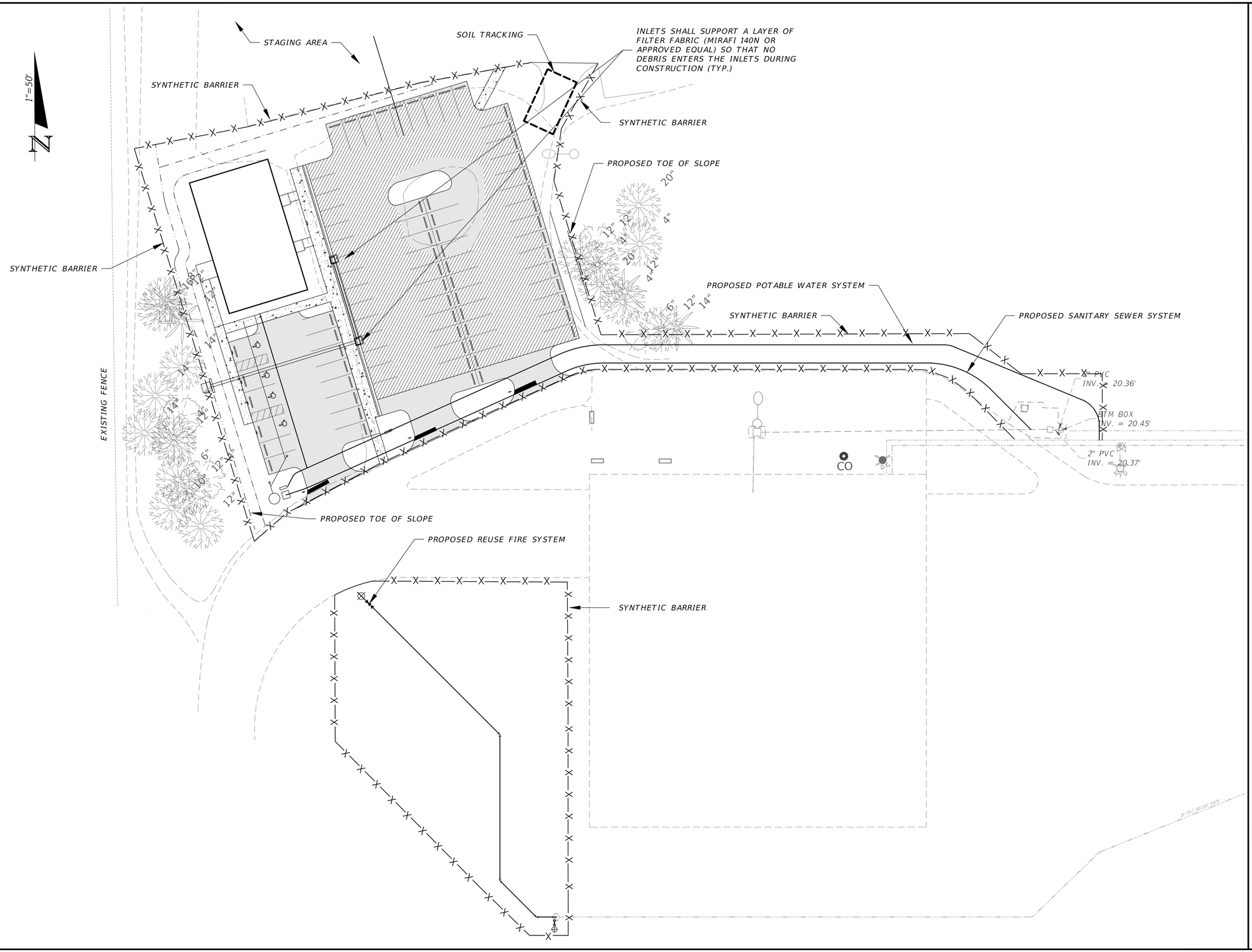
SHEET TITLE:

LIFT STATION DETAILS

SHEET NO. 12

PRELIMINARY NOT FOR CONSTRUCTION

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Stantec

FORT MYERS

1412 JACKSON ST., SUITE 3
FORT MYERS, Fl. 33901

Project Name:

LEE COUNTY SOLID WASTE TRANSFER STATION EMPLOYEE BUILDING

Project Address:

10450-10550
BUCKINGHAM ROAD
FORT MYERS, FL 33905

Client/Owner:

LEE COUNTY
PO BOX 398
FORT MYERS, FL 33902

Engineer Contact:

Kristina Connelly, P.E.
Project Manager
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Email: kristina.connelly@stantec.com

Project Engineer:

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Revisions:

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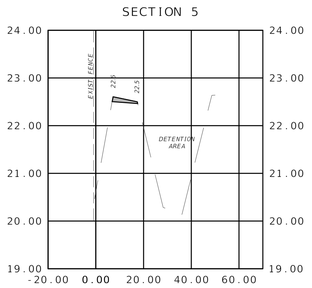
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PROJECT # : 2156184
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ORIGIN DATE : 01-10-2024
DESIGNER : STS
CADD : STS
CHECKED BY : KC
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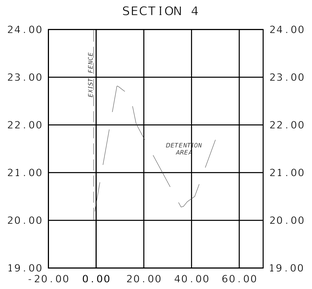
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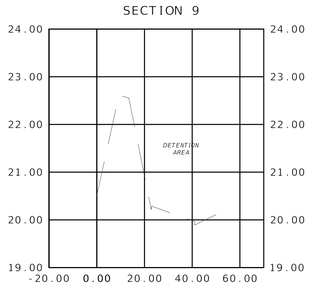
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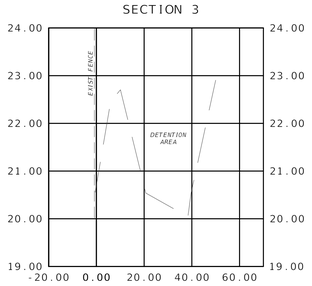
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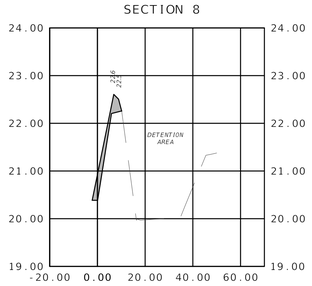
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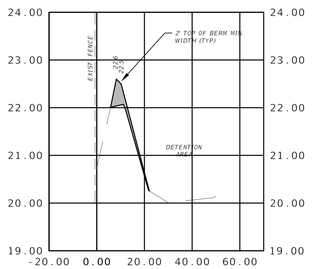


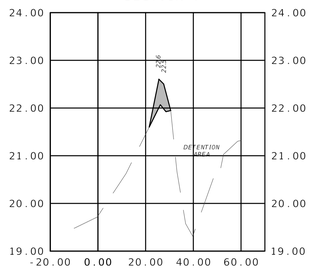


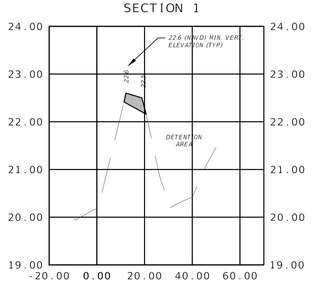


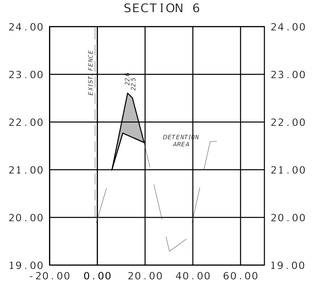














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FORT MYERS

1412 JACKSON ST., SUITE 3
FORT MYERS, Fl. 33901

Project Name:

LEE COUNTY SOLID WASTE TRANSFER STATION EMPLOYEE BUILDING

Project Address:

10450-10550
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Kristina Connelly, P.E.
Project Manager
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Project Engineer:

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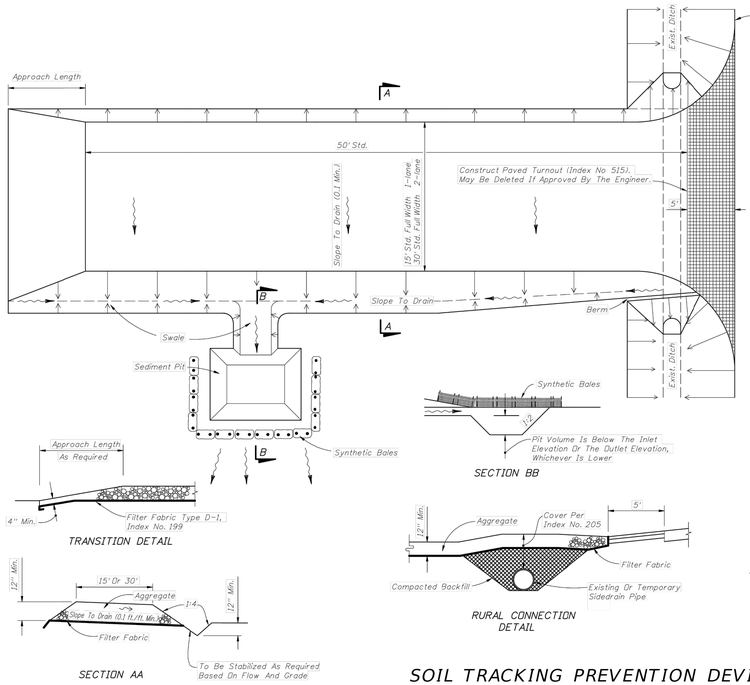
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PROJECT # :2156184
FILE NAME :14-215618410-BERM.DWG
ORIGIN DATE :01-10-2024
DESIGNER :STS
CADD :STS
CHECKED BY :KC
PLOT DATE :FRI, 6-14-2024-11:47 AM
PLOTTED BY :STSTUART

SHEET TITLE:

BERM RESTORATION PLAN

SHEET NO. 14

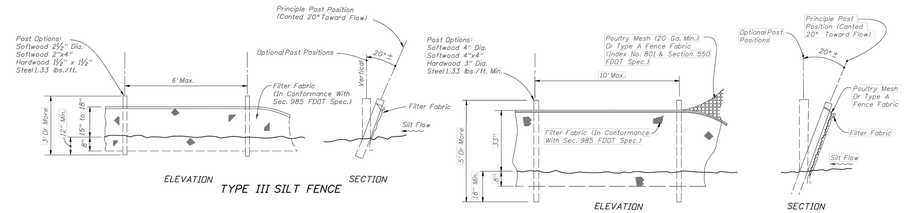
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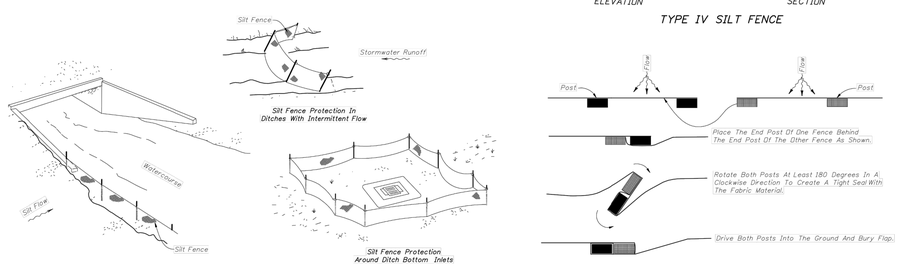


SOIL TRACKING PREVENTION DEVICE

GENERAL NOTES

1. A Soil Tracking Prevention Device (STPD) shall be constructed at locations designated by the engineer for points of egress from unstabilized areas of the project to public roads where off-site tracking of mud could occur. Traffic from unstabilized areas of the construction project shall be directed thru a STPD. Barriers, flagging, or other positive means shall be used as required to limit and direct vehicular egress across the STPD.
2. The Contractor may propose an alternative technique to minimize off-site tracking of sediment. The alternative must be reviewed and approved by the Engineer prior to its use.
3. All materials spilled, dropped, or tracked onto public roads (including the STPD aggregate and construction mud) shall be removed daily, or more frequently if so directed by the Engineer.
4. Aggregates shall be as described in Section 901 excluding 901-2.3. Aggregates shall be FDOT size #1. If this size is not available, the next available smaller size aggregate may be substituted with the approval of the Engineer. Sizes containing excessive small aggregate will track off the project and are unsuitable.
5. The sediment pit should provide a retention volume of 3600 cubic feet/acre of surface area draining to the pit. When the STPD is isolated from other drainage areas, the following pit volumes will satisfy this requirement:
   15' x 50'=100 ft.^{3} 30' x 50'=200 ft.^{3}
   As an option to the sediment pit, the width of the swale bottom can be increased to obtain the volume. When the sediment pit or swale volume has been reduced to one half, it shall be cleaned. When a swale is used, synthetic bales or silt fence shall be placed along the entire length.
6. The swale ditch draining the STPD shall have a 0.02% minimum and a 1.0% maximum grade along the STPD and to the sediment pit.
7. Mitered end sections are not required when the sidedrain pipe satisfies the clear zone requirements.
8. The STPD shall be maintained in a condition that will allow it to perform its function. To prevent off-site tracking, the STPD shall be rinsed (daily when in use) to move accumulated mud downward thru the stone. Additional stabilization of the vehicular route leading to the STPD may be required to limit the mud tracked.
9. A STPD shall be paid for under the contract unit price for Soil Tracking Prevention Device, EA. The unit price shall constitute full compensation for construction, maintenance, replacement of materials, removal, and restoration of the area utilized for the STPD; including but not limited to excavation, grading, temporary pipe (including MES when required), filter fabric, aggregate, paved turnout (including asphalt and base construction), ditch stabilization, approach route stabilization, sediment removal and disposal, water, rinsing and cleaning of the STPD and cleaning of public roads, grassing and sod. Synthetic Bale or Bale Type Barrier shall be paid for under the contract unit price for Synthetic Bales, LF. Silt fence shall be paid for under the contract unit price for Staked Silt Fence, LF.
10. The nominal size of a standard STPD is 15' x 50' unless otherwise shown in the plans. If the volume of entering and existing vehicles warrant, a 30' width STPD may be used if approved by the Engineer. When a double width (30') STPD is used, the pay quantity shall be 2 for each location.

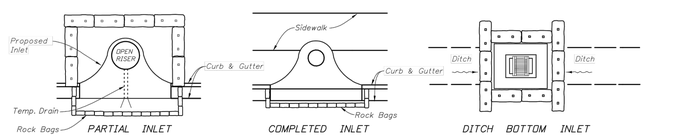




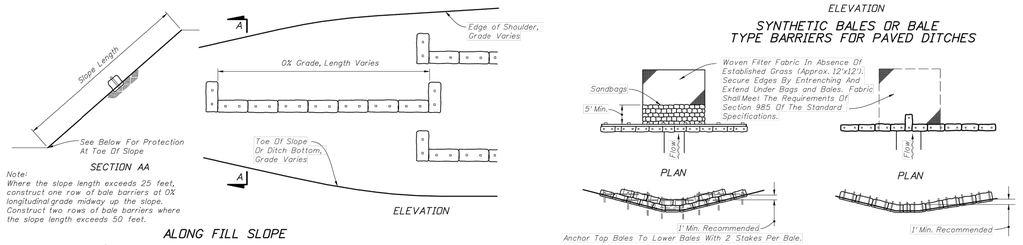
NOTES FOR SILT FENCES

1. Type III Silt Fence to be used at most locations. Where used in ditches, the spacing for Type III Silt fence shall be in accordance with Chart 1, Sheet 1.
2. Type IV Silt Fence to be used where large sediment loads are anticipated. Suggested use is where fill slope is 1:2 or steeper and length of slope exceeds 25 feet. Avoid use where the detained water may back into travellanes or off the right of way.
3. Do not construct silt fences across permanent flowing watercourses. Silt fences are to be at upland locations and turbidity barriers used at permanent bodies of water.
4. Where used as slope protection, Silt Fence is to be constructed on 0% longitudinal grade to avoid channelizing runoff along the length of the fence.
5. Silt Fence to be paid for under the contract unit price for Staked Silt Fence, (LF).

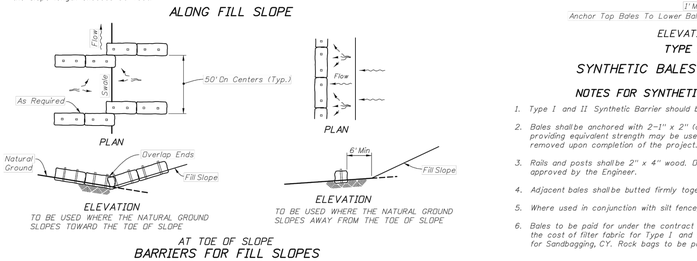
TEMPORARY EROSION AND SEDIMENT CONTROL



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



Note:
Where the slope length exceeds 25 feet, construct one row of bale barriers at 0% longitudinal grade midway up the slope. Construct two rows of bale barriers where the slope length exceeds 50 feet.



SYNTHETIC BALES OR BALE TYPE BARRIERS FOR UNPAVED DITCHES

NOTES FOR SYNTHETIC BALES OR BALE TYPE BARRIERS

1. Type I and II Synthetic Barrier should be spaced in accordance with Chart 1, Sheet 1.
2. Bales shall be anchored with 2-1" x 2" (or 1" dia.) x 4' wood stakes. Stakes of other material or shape providing equivalent strength may be used if approved by the Engineer. Stakes other than wood shall be removed upon completion of the project.
3. Rails and posts shall be 2" x 4" wood. Other materials providing equivalent strength may be used if approved by the Engineer.
4. Adjacent bales shall be butted firmly together.
5. Where used in conjunction with silt fence, bales shall be placed on the upstream side of the fence.
6. Bales to be paid for under the contract unit price for Synthetic Bales, LF. The unit price shall include the cost of filter fabric for Type I and II Barriers. Sandbags shall be paid for under the unit price for Sandbagging, CY. Rock bags to be paid for under the contract unit price for Rock Bags, EA.

TEMPORARY EROSION AND SEDIMENT CONTROL

Stantec

FORT MYERS
1412 JACKSON ST., SUITE 3
FORT MYERS, Fl. 33901

Project Name:

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Project Manager
Phone: 239-347-5508
Email: kristina.connelly@stantec.com

Project Engineer:

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PROJECT # : 2156184
FILE NAME : I:\5-215618410-TEC-DTLS.DWG
ORIGIN DATE : 01-10-2024
DESIGNER : STS
CADD : STS
CHECKED BY : KC
PLOT DATE : FRI. 6-14-2024-11:47 AM
PLOTTED BY : STSTUART

SHEET TITLE:

TEMPORARY EROSION CONTROL DETAILS

SHEET NO. 15

PRELIMINARY
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