A Fun City In The Heart Of Broward

NORTH LAUDERDALE IDERDALF C-14 STORIWATER PUMP STATION



PROJECT TEAM

CLIENT CITY OF NORTH LAUDERDALE

NORTH LAUDERDALE, FLORIDA 33068

LAND SURVEYOR STONER & ASSOCIATES, INC. 4341 SW 62ND AVE **DAVIE, FL 33314**

PROJECT LOCATION

UTILITY PROVIDERS

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WATER AND WASTEWATER **SERVICES**

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CITY OFFICIALS

VICE MAYOR: COMMISSIONERS:

SAMSON BORGELIN DARRELL LEWIS-RICKETTS MARIO BUSTAMANTE DR. REGINA MARTIN **LUKE LEWIS**

LOCATION SOUTHGATE BLVD NORTH LAUDERDALE, FL 33068



VICINITY MAP 1"=200'

PREPARED BY:

Kimley» Horn

C200.0 EROSION CONTROL AND DEMOLITION PLAN C201.0 **EROSION CONTROL DETAILS** C202.0 **EARTHWORK PLAN** C300.0 SITE PLAN C301.0 **ENGINEERING DETAILS** C400.0 PAVING, GRADING, AND DRAINAGE PLAN C401.0 **CROSS SECTIONS** C402.0 PAVING, GRADING, AND DRAINAGE DETAILS C500.0 PHASING PLAN - PHASE I C500.1 PHASING PLAN - PHASE II C500.2 PHASING PLAN - PHASE III **GENERAL NOTES GENERAL NOTES** S002 **ABBREVIATIONS** S010 WIND PRESSURE ELEVATIONS S011 WIND PRESSURE ELEVATIONS S020 WIND PRESSURE PLAN S100 FOUNDATION PLAN OPERATING FLOOR FRAMING PLAN S101 S102 **ROOF FRAMING PLAN** S103 ROOF DRAINAGE PLAN **BUILDING SECTIONS BUILDING SECTIONS** FOUNDATIONS DETAILS **CONCRETE DETAILS** S400 **CONCRETE DETAILS** MASONRY DETAILS WATERPROOFING DETAILS SECTIONS AND DETAILS STEEL SHEET PILE WALL SECTIONS & DETAILS STEEL SHEET PILE WALL SECTIONS & DETAILS S704 LADDER DETAILS S705 RAILINGS SECTIONS AND DETAILS S800 FINISH PLANS & SCHEDULES M100.0 MECHANICAL PLAN M100.1 MECHANICAL PLAN M100.2 MECHANICAL PLAN M100.3 MECHANICAL PLAN M100.4 MECHANICAL PLAN M100.5 MECHANICAL PLAN M100.6 MECHANICAL PLAN M100.7 MECHANICAL PLAN TREE DISPOSITION PLAN L100.0 L200.0 LANDSCAPE PLAN L250.0 LANDSCAPE DETAILS LANDSCAPE NOTES L251.0 E-001 ELECTRICAL LEGEND AND GENERAL NOTES E-100 **ELECTRICAL SITE PLAN** E-200 ELECTRICAL PLAN E-201 LIGHTING PLAN E-300 ONE LINE DIAGRAM E-301 **ELECTRICAL DETAILS** E-302 **ELECTRICAL DETAILS** M-200 MECHANICAL PLAN

Sheet List Table

C000.0

C000.1

C100.0

Sheet Title

COVER SHEET

SURVEY

GENERAL NOTES

HE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS SSUE AND OBTAINING ALL NECESSARY PERMITS.

ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON THE NAVD 88. TO CONVERT ELEVATIONS TO NGVD 29, ADD 1.55'.

M-300



MECHANICAL DETAILS AND SCHEDULES

 $\mathbf{\Omega}$

SHEET NUMBER C000.0

SHEE

COVER

1

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

SKETCH OF TOPOGRAPHIC, BATHYMETRIC AND SPECIFIC PURPOSE (TREE) SURVEY VERTICAL DATUM INFORMATION ALL ELEVATIONS SHOWN HEREON ARE IN NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88) CONVERSION FACTOR: N.A.V.D. 88 + 1.55' = N.G.V.D. 29, IN THIS AREA. **SURVEY NOTES:** PROJECT CONTROL POINT TABLE Southwest 3rd Street 98 689950.20 905271.13 12.53 SET N/D STAMPED "TRAV.PT. LB 6633" 99 689799.96 905195.57 11.67 SET 5/8" IRC STAMPED "TRAV.PT. S/A" 100 689959.61 905339.14 11.63 SET N/D STAMPED "TRAV.PT. LB 6633" 101 689938.67 905187.76 11.14 SET N/D STAMPED "TRAV.PT. LB 6633" 102 689581.49 905207.91 9.13 SET N/D STAMPED "TRAV.PT. LB 6633" PURSUANT TO SECTION 472.027, FLORIDA STATUTES. Southwest 3rd Court Southwest 3rd Place

- 1. THIS SKETCH OF TOPOGRAPHIC, BATHYMETRIC AND SPECIFIC PURPOSE (TREE) SURVEY WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OF PRACTICE, ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS, CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODES,
- 2. THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL EMBOSSED SEAL OF A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER. IF THIS SURVEY HAS BEEN DELIVERED IN PORTABLE DOCUMENT FORMAT (PDF) AND DIGITALLY SIGNED AND SEALED, A VALID SERIAL NUMBER MUST BE PRESENT FOR THE SURVEY TO BE CONSIDERED VALID.
- 3. BOUNDARY LINES AND RIGHT-OF-WAY LINES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE BASED ON PLATS AND/OR RIGHT-OF-WAY MAPS OF RECORD. DO NOT USE THESE LINES FOR DESIGN AND/OR CONSTRUCTION. THIS SKETCH OF SURVEY DOES NOT REPRESENT A SURVEY OF THE BOUNDARY OR RIGHT OF WAY LINES.
- 4. A SEARCH OF THE PUBLIC RECORDS FOR OWNERSHIP, EASEMENTS, RIGHTS-OF-WAY OR OTHER MATTERS OF RECORD WAS NOT PERFORMED BY STONER & ASSOCIATES, INC. THERE MAY BE ADDITIONAL INFORMATION RECORDED IN THE PUBLIC RECORDS THAT ARE NOT SHOWN HEREON. FOR MORE INFORMATION CONTACT A QUALIFIED TITLE COMPANY OR CONSULT THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.
- 5. THE PURPOSE OF THIS SURVEY IS TO PROVIDE TOPOGRAPHIC DATA FOR A PROPOSED PUMP STATION. DATA INCLUDES (1) LOCATION OF SURFACE IMPROVEMENTS, (2) SPOT ELEVATIONS, (3) TREE SURVEY AND (4) BOTTOM OF CANAL ELEVATIONS.
- 6. THE BATHYMETRIC SURVEY UTILIZED HYDROGRAPHIC DATA MEASURED BY CONVENTIONAL SURVEY METHODS TO DETERMINE THE ELEVATION OF THE BOTTOM OF THE BODY OF WATER BEING SURVEYED. HYDROGRAPHIC MEASUREMENTS AND THE ASSOCIATED ELEVATIONS DERIVED THEREFROM WERE MEASURED TO THE TOP OF THE CONSOLIDATED BOTTOM MATERIAL PRESENT AT THE TIME OF THE SURVEY. THERE COULD BE SILT OR OTHER MATERIALS PRESENT ON THE BOTTOM THAT WERE NOT MEASURED AND ARE NOT ACCOUNTED FOR BY THIS SURVEY. NO EFFORT WAS MADE TO PROBE THE BOTTOM MATERIAL OR TO DETERMINE THE COMPOSITION OR CONSISTENCY OF
- 7. THE COORDINATES SHOWN HEREON ARE RELATIVE TO THE FLORIDA STATE PLANE COORDINATES, EAST ZONE, NORTH AMERICAN DATUM (NAD) OF 1983(2011). CONTROL POINTS COORDINATES WERE ESTABLISHED BY GLOBAL POSITIONING SYSTEM - REAL TIME KINEMATICS METHOD OBSERVATIONS.
- THE ELEVATIONS SHOWN HEREON ARE BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88) ESTABLISHED FROM BROWARD COUNTY ENGINEERING DEPARTMENT BENCHMARK: BM AND S.W. 83rd AVENUE. 123' NORTH OF THE NORTH EDGE OF PAVEMENT OF SOUTHGATE BOULEVARD AND 155' WEST OF THE NORTHWEST CORNER OF CHAIN LINK FENCE SURROUNDING A WATER CONTROL PUMP HOUSE. ELEVATION 10.91' (N.A.V.D. 88)
- 9. VERTICAL DATUM CONVERSION FACTOR FOR THIS PROJECT AREA: NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88) + 1.55' = NATIONAL GEODETIC VERTICAL DATUM OF 1929 (N.G.V.D.
- 10. CERTAIN FEATURES ARE REPRESENTED BY THE SYMBOLS REFLECTED IN THIS MAP. THE LEGEND OF FEATURES MAY HAVE BEEN ENLARGED FOR CLARITY AND MAY NOT REPRESENT THE ACTUAL SHAPE OR SIZE OF THE FEATURE. THE SYMBOLS HAVE BEEN PLOTTED AT THE APPROXIMATE CENTER OF THE FEATURE BASED UPON THE FIELD LOCATION.
- 11. THIS SKETCH IS INTENDED TO BE DISPLAYED AT A HORIZONTAL SCALE OF 1 INCH = 20 FEET.
- 12. THE HORIZONTAL ACCURACY FOR WELL DEFINED IMPROVEMENTS DEPICTED ON THIS SKETCH IS
- 13. HEDGES, GROUND COVER, AND OTHER LANDSCAPE FEATURES ARE NOT SHOWN HEREON, UNLESS OTHERWISE NOTED.
- 14. IRRIGATION FEATURES, SUCH AS SPRINKLERS, ARE NOT SHOWN HEREON.
- 15. SUBSURFACE FEATURES ARE NOT SHOWN HEREON. THIS SITE COULD HAVE UNDERGROUND INSTALLATIONS THAT ARE NOT SHOWN HEREON. BEFORE DESIGN, CONSTRUCTION, OR EXCAVATION CONTACT 811 AND/OR THE APPROPRIATE UTILITY COMPANIES FOR FIELD VERIFICATION OF UTILITIES.
- 16. THE DIMENSIONS SHOWN HEREON ARE BASED UPON U.S. SURVEY FEET AND FRACTIONAL PARTS
- 17. THE STORM DRAINAGE AS-BUILT DATA SHOWN HEREON WAS COLLECTED FOR ENGINEERING DESIGN PURPOSES ONLY. THE AS-BUILT DATA IS LIMITED TO STRUCTURE RIM AND PIPE INVERT ELEVATIONS ONLY. PIPE SIZES AND PIPE MATERIAL TYPES SHOULD BE CONFIRMED BEFORE DESIGN OF IMPROVEMENTS. THE SURVEYORS DID NOT PHYSICALLY ENTER THE STRUCTURES, ALL THE MEASUREMENTS AND ELEVATIONS WERE COLLECTED (WITH THE LID OF THE STRUCTURE REMOVED) BY VISUAL OBSERVATIONS IN ACTIVE FACILITIES WITH WATER AND EFFLUVIUM PRESENT. THE CONNECTIONS BETWEEN STRUCTURES WERE NOT VISUALLY INSPECTED OR VERIFIED AND THE CONDITION OF PIPING WAS NOT DETERMINED. CRITICAL ELEVATIONS AND DIMENSIONS SHOULD BE VERIFIED BEFORE DESIGN OF IMPROVEMENTS, WITH THE FACILITIES PUMPED DOWN AND PIPES CLEANED OUT. BEFORE ORDERING REPLACEMENT OR CONNECTING PIPES THE SIZE AND TYPE OF PIPES SHOULD BE CONFIRMED.
- 18. THE SURVEYOR DID NOT INSPECT THIS PROPERTY FOR ENVIRONMENTAL HAZARDS.
- 19. THE INFORMATION DEPICTED ON THIS SKETCH OF SURVEY REPRESENTS THE RESULTS OF A FIELD SURVEY ON THE DATE INDICATED ON THE BORDER OF THE DRAWING AND CAN ONLY BE CONSIDERED VALID FOR THIS DATE AND INDICATES THE GENERAL CONDITIONS EXISTING AT THE TIME OF THE FIELD SURVEY.
- 20. THIS SKETCH OF SURVEY CANNOT BE RELIED UPON BY PERSONS OR ENTITIES OTHER THAN THOSE PERSONS OR ENTITIES CERTIFIED TO HEREON. ADDITIONS OR DELETIONS TO THIS SURVEY AND/OR REPORTS BY PEOPLE OR PERSONS OTHER THAN THE SIGNING PARTIES ARE PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
- 21. THE INFORMATION CONTAINED IN THIS DOCUMENT WAS PREPARED BY STONER & ASSOCIATES, INC. (S&A). S&A HAS TAKEN PRECAUTIONS TO ENSURE THE ACCURACY OF THIS DOCUMENT AND THE DATA REFLECTED HEREIN. S&A CANNOT NOT GUARANTEE THAT ALTERATIONS AND/OR MODIFICATIONS WILL NOT BE MADE TO THE DATA CONTAINED IN THIS DOCUMENT BY OTHERS AFTER IT LEAVES OUR POSSESSION. THIS DOCUMENT MUST BE COMPARED TO THE ORIGINAL HARD COPY (WHICH BEARS THE RAISED SURVEYOR'S CERTIFICATION SEAL) TO ENSURE THE ACCURACY OF THE INFORMATION CONTAINED HEREON AND TO FURTHER ENSURE THAT ALTERATIONS AND/OR MODIFICATIONS HAVE NOT BEEN MADE. S&A MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THE ACCURACY OF THE INFORMATION CONTAINED IN THIS OR ANY DOCUMENT TRANSMITTED OR REVIEWED BY COMPUTER OR OTHER ELECTRONIC MEANS. CONTACT S&A FOR VERIFICATION OF ACCURACY.
- 22. REFERENCE S&A PROJECT NUMBER 21-9189, DATED 04.23.2021

THIS SURVEY IS CERTIFIED TO:

KIMLEY-HORN AND ASSOCIATES, INC.

THIS IS TO CERTIFY THAT THIS SKETCH OF TOPOGRAPHIC, BATHYMETRIC AND SPECIFIC PURPOSE (TREE) SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND IS ACCURATE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY MEETS THE STANDARDS OF PRACTICE, ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS, CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODES, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

DATE OF SIGNATURE: 7.30.2024

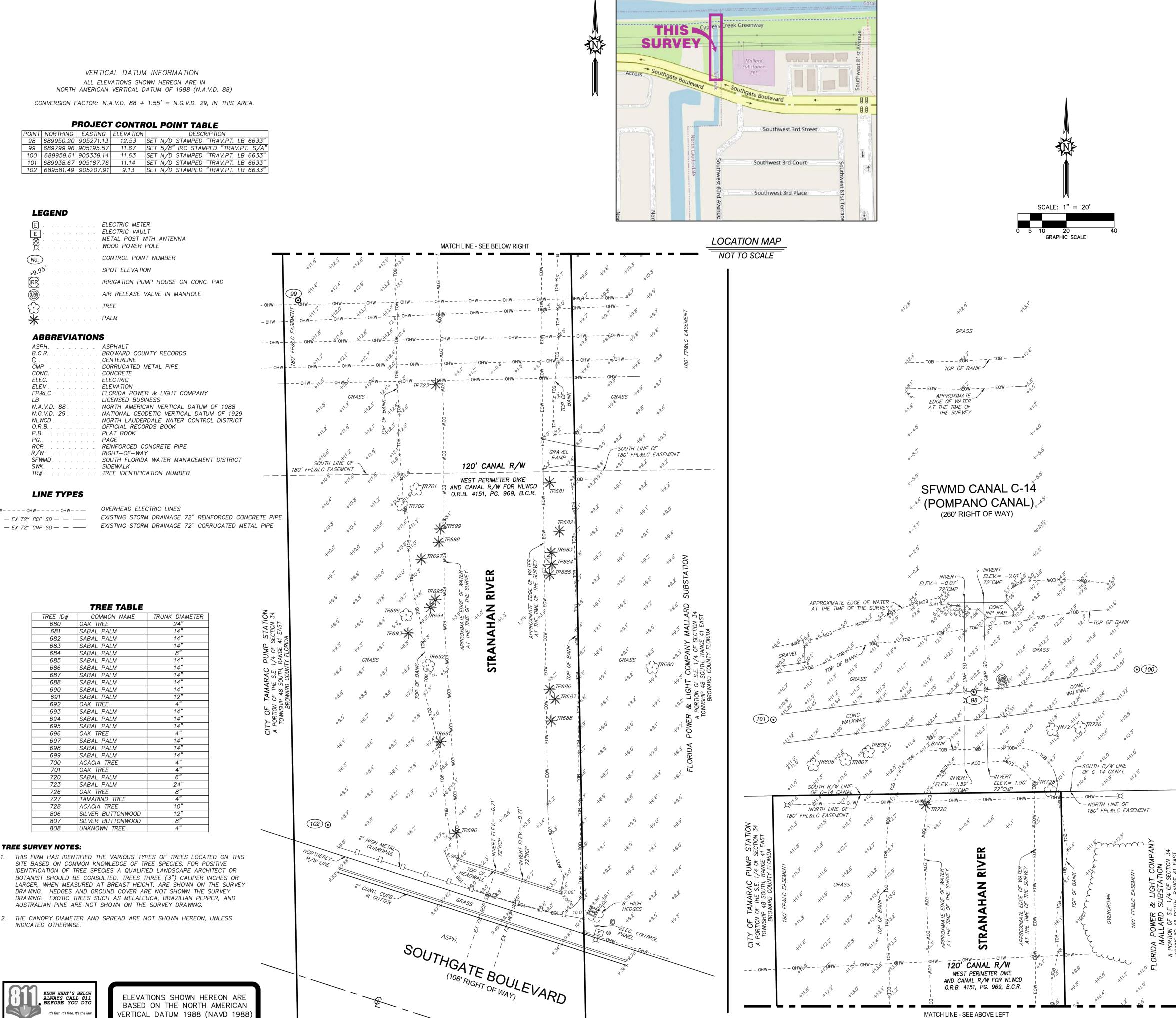
Digitally signed by Walter De La Rocha WATER DE LA VOCUM Date: 2024.07.30 08:38:32 -04'00'

PROFESSIONAL SURVEYOR AND MAPPER NO. 6081 STATE OF FLORIDA STONER AND ASSOCIATES, INC. L.B. 6633 wdelarocha@stonersurveyors.com

No. 6081 STATE OF CORIDA

PROJEC' 24-9734

SHEET NO



1. GENERAL CONSTRUCTION NOTES

- 1. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION) AS WELL AS THE FLORIDA BUILDING CODE AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK, AND, UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL
- 3. THE INFORMATION PROVIDED IN THESE PLANS IS TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT ANY INVESTIGATION THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITION THAT WILL BE ENCOUNTERED AND UPON WHICH THEIR BIDS WILL BE BASED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE BOTH THE SURFACE AND SUBSURFACE CONDITIONS AND BASE HIS PRICING ACCORDINGLY GEOTECHNICAL AND ENVIRONMENTAL REPORTS ARE AVAILABLE FOR REVIEW.
- 4. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES. NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH
- 5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL LITH ITY COMPANIES, PRIOR TO BEGINNING CONSTRUCTION. AN APPROXIMATE LIST OF THE UTILITY COMPANIES WHICH THE CONTRACTOR MUST CALL BEFORE COMMENCING WORK IS PROVIDED ON THE COVER SHEET OF THESE CONSTRUCTION PLANS. THIS LIST SERVES AS A GUIDE ONLY AND IS NOT INTENDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR MAY WISH TO NOTIFY.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.
- 7. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS. SPECIFICATIONS, GEOTECHNICAL REPORT AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
- 8. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER.
- 9. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND DESIGN ENGINEER OF RECORD DIRECTLY FROM THE TESTING
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTORS RESPONSIBILITY.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE
- 12. ANY WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS
- 13. ANY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS AFTER DISCOVERY IS MADE.
- 14. ANY WELL TO REMAIN SHALL BE ADJUSTED TO GRADE BY THE CONTRACTOR.
- 15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE MAINTENANCE OF TRAFFIC FOR THE ADJACENT PROPERTY DURING CONSTRUCTION.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED. THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOLLD BE AFFECTED. FAILLIRE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
- 17. PRIOR TO CLIENT HANDOFF, THE CONTRACTOR SHALL:
- SWEEP THE ENTIRE SITE ELIMINATE ALL DEBRIS IN THE LANDSCAPING AREAS
- PRESSURE CLEAN THE SITE ASPHALT
- PRESSURE CLEAN THE CURBS AND SIDEWALKS.

RECORD DRAWINGS

1. CONTRACTOR SHALL PROVIDE TO THE ENGINEER AND OWNER A MINIMUM OF 3 HARD COPIES A PAVING, GRADING AND DRAINAGE RECORD DRAWING, ELECTRICAL/MECHANICAL/STRUCTURAL DRAWINGS, AND A SEPARATE UTILITY RECORD DRAWING. AS WELL AS ALL IN AUTOCAD 2015 OR LATER, ALL PREPARED BY A FLORIDA REGISTERED SURVEYOR. THE RECORD DRAWINGS SHALL VERIFY ALL DESIGN INFORMATION INCLUDED ON THE DESIGN PLANS OF THE SAME NAME.

PAVING, GRADING AND DRAINAGE NOTES

- 1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN JURISDICTION'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR FDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.
- 2. ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED.
- 3. TRAFFIC CONTROL ON ALL FDOT, LOCAL AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- 4. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
- 5. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
- 6. ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE SODDED UNLESS INDICATED OTHERWISE ON THE LANDSCAPE PLAN.
- 7. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS
- 8. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS

OTHERWISE INDICATED.

- 9. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
- 10. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION
- 11. STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. IN SOME CASES TOPSOIL MAY BE STOCKPILED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS BUT ONLY AS DIRECTED BY THE OWNER.
- 12. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO FDOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- 13. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SODDED OR SEEDED AS SPECIFIED IN THE PLANS FERTILIZED. MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE SODDED OR SEEDED AND MULCHED AS SHOWN ON THE LANDSCAPING PLAN.
- 14. ALL CUT OR FILL SLOPES SHALL BE 3 (HORIZONTAL) :1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION
- 16. THE CONTRACTOR SHALL TAKE ALL REQUIRED MEASURES TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTER 17-302. FLORIDA ADMINISTRATIVE CODE.
- 17. SOD, WHERE CALLED FOR, MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES.
- 18. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE ENVIRONMENTAL RESOURCE PERMIT COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY WATER MANAGEMENT DISTRICT REPRESENTATIVES
- 19. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
- 20. THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORM WATER PIPING PER MANUFACTURER'S RECOMMENDATIONS

WATER UTILITY NOTES

- 1. THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES GRAVITY SEWER LINES AND DOMESTIC WATER AND FIRE PROTECTION SYSTEM AS SHOWN ON THESE PLANS THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS FOLIPMENT MACHINERY TOOLS MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- 2. ALL EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR UTILITY LOCATION AND COORDINATION IN ACCORDANCE WITH THE NOTES CONTAINED IN THE GENERAL CONSTRUCTION SECTION OF THIS SHEET
- 3. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE
- 4. DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE
- 5. ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACK FILLING. SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING IN ANY D.I. PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS. WHICH IN THE OPINION OF THE ENGINEER OR OWNER, RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 6. WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLES BEING
- 7. ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT
- 8. UNDERGROUND LINES SHALL BE SURVEYED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR PRIOR TO BACK FILLING.
- 9. CONTRACTOR SHALL PERFORM, AT HIS OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION, THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO. INFILTRATION AND EXFILTRATION. TELEVISION INSPECTION AND A MANDREL TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDER, OWNER AND JURISDICTIONAL AGENCY AS REQUIRED.
- 10. ALL WATER MAIN INSTALLATIONS SHALL COMPLY WITH THE EQUIPMENTS OF CHAPTER 62-555.320, FAC.
- 11. ALL PVC PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE UNI-VELL PLASTIC PIPE ASSOCIATIONS "GUIDE FOR INSTALLATION OF PVC PRESSURE PIPE FOR MUNICIPAL WATER
- 12. ALL DIP SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C600-05 OR LATEST REVISION.
- 13. ALL WATER MAIN PIPES SHALL BE COLOR CODED USING BLUE AS A PREDOMINANT COLOR IN ACCORDANCE WITH RULE 62-555.320(21)(B)(3), FAC.
- 14. ALL WATER MAINS SHALL BE LAID WITH A MINIMUM 36" COVER FOR PVC AND 30" FOR DIP.
- 15. NO CONNECTIONS TO EXISTING LINES SHALL BE MADE UNTIL PRESSURE TESTS & BACTERIOLOGICAL TESTS HAVE BEEN PERFORMED AND THE SYSTEM IS ACCEPTABLE TO THE CITY OF NORTH LAUDERDALE.
- 16. LOCATOR TAPE AND WIRE SHALL BE INSTALLED ON ALL NEW WATER MAINS. TAPE WILL BE 3" WIDE AND COLOR CODED AND INSTALLED 12" ABOVE WATER MAIN. WIRE WILL BE 14 STRAND
- 17. R.P.M.'S TO BE INSTALLED PRIOR TO C/O AT CENTER OF NEAREST DRIVE AISLE ADJACENT TO ALL HYDRANTS (BLUE). FOR HYDRANTS AT CORNERS, TWO (2) R.P.M.'S SHALL BE INSTALLED,

ONE AT EACH ROADWAY.

18. WATER DISTRIBUTION SYSTEM MATERIAL:

- 18.1. POLYVINYL CHLORIDE (PVC) WATER MAIN SHALL HAVE PUSH-ON RUBBER GASKET JOINTS.
- 18.2. PVC PIPE SHALL BE 1120 PRESSURE PIPE WITH IRON O.D., CLASS 150 (SDR 18), CONFORMING TO ANSI/AWWA C900-LATEST REVISION.
- 18.3. WHERE DUCTILE IRON PIPE (DIP) IS REQUIRED IT SHALL BE 60-42-10, CLASS 50 WALL THICKNESS WITH INTERIOR CEMENT LINING AND EXTERIOR COAL TAR COATING CONFORMING TO ANSI/AWWA
- 18.4. PIPE JOINTS SHALL BE MECHANICAL, CONFORMING TO AWWA C-111-00.
- 18.5. ALL GASKETS SHALL BE NEOPRENE. WHERE REQUIRED POLYETHYLENE WRAP SHALL BE INSTALLED.

PAVEMENT MARKINGS NOTES:

- 1. ALL PAVEMENT MARKINGS SHALL BE MADE IN ACCORDANCE WITH FDOT STANDARD INDEX # 711-001, WHERE SHOWN ON THE PLANS.
- 2. WHERE THE PLANS CALL FOR PAINTED PAVEMENT MARKINGS, INSTALLATION AND MATERIALS SHALL MEET ALL REQUIREMENTS OF SECTION 710 OF FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE FOLLOWING: CONTRACTOR TO APPLY TWO COATS OF VOC COMPLIANT, LOCAL DOT APPROVED, UNDILUTED, SOLVENT BASED OR LATEX TRAFFIC PAINT. CONTRACTOR TO FOLLOW MANUFACTURER'S RECOMMENDED APPLICATION RATE WITHOUT THE ADDITION OF A THINNER, WITH A MAXIMUM OF 100 SQUARE FEET PER GALLON OR AS REQUIRED PROVIDING MINIMUM 15 MILS WET FILM THICKNESS AND 7.5 MILS DRY FILM THICKNESS PER COAT WITH MINIMUM OF 30 DAYS BETWEEN APPLICATIONS. SECOND COAT OF PAINT SHALL NOT BE APPLIED EARLIER THAN 7 DAYS PRIOR TO GRAND OPENING. PAINT SHALL BE CRISP, STRAIGHT AND APPLIED UNIFORMLY ACROSS THE WIDTH OF A LINE FOR A TOTAL DRY FILM THICKNESS OF 15 MILS
- 3. ALL PAVEMENT SYMBOLS AND MARKINGS ARE TO BE THERMOPLASTIC WITH THE EXCEPTION OF PARKING STRIPING. THERMOPLASTIC INSTALLATION AND MATERIALS SHALL MEET ALL REQUIREMENTS OF SECTION 711 OF FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE

EROSION CONTROL NOTES

MAINTAINED ON SITE AT ALL TIMES

- 1. THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THIS EROSION CONTROL PLAN, THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN SPECIFICATIONS OF THE SWPPP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
- 2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
- 3. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF
- 4. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR
- 5. EROSION CONTROL PLAN MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE
- 6. THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
- 7. CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA. EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND
- 8. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- 9. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS
- 11. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR
- 12. STABILIZATION PRACTICES SHOULD BE INITIATED AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS WHERE CONSTRUCTION HAS TEMPORARILY CEASED.
- 13. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRED IN THESE AREAS. REFER TO SECTION 981 OF THE STANDARD SPECIFICATIONS FOR SEEDING AND MAINTENANCE
- 14. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
- 15. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS

OR INTO STORM DRAINS MUST BE REMOVED AS SOON AS POSSIBLE.

- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
- 17. ON-SITE & OFF SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE EROSION CONTROL PLAN AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
- 18. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- 19. DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION.
- 20. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACK FILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

MAINTENANCE

ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN. SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE

- 1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
- ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEEDED AS NEEDED. FOR MAINTENANCE REQUIREMENTS REFER TO SECTION 981 OF THE STANDARD SPECIFICATIONS. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE
- 5. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND
- 6. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
- 7. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 55 CUBIC YARDS / ACRE.
- 8. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2 CALENDAR DAYS FOLLOWING THE INSPECTION.

TYPICAL ENGINEER OBSERVATIONS

- CONTRACTOR SHALL NOTIFY ENGINEER 48 HOURS IN ADVANCE OF THE FOLLOWING ACTIVITIES:
- PRF-CONSTRUCTION MEETING
- PUMP START UP COMMISSIONING
- PAY APPLICATION QUANTITY VERIFICATION
- ANY OTHER INSPECTION FOR WHICH A PERMITTING AGENCY REQUIRES THE ENGINEER TO BE PRESENT

FINAL PUNCH LIST WALKTHROUGH

TEST REPORTS REQUIRED FOR CLOSE OUT INCLUDE, BUT ARE NOT LIMITED TO:

3RD PARTY TEST REPORTS REQ'D

- DENSITY TEST REPORTS PUMP START UP REPORT
- STRING LINE TEST GENERATOR LOAD BANK RESULTS
- ELECTRICAL MEGGER TESTING
- ANY OTHER INSPECTION FOR WHICH A PERMITTING AGENCY REQUIRES THE ENGINEER TO BE PRESENT

RD,

KNOW WHAT'S BELOW

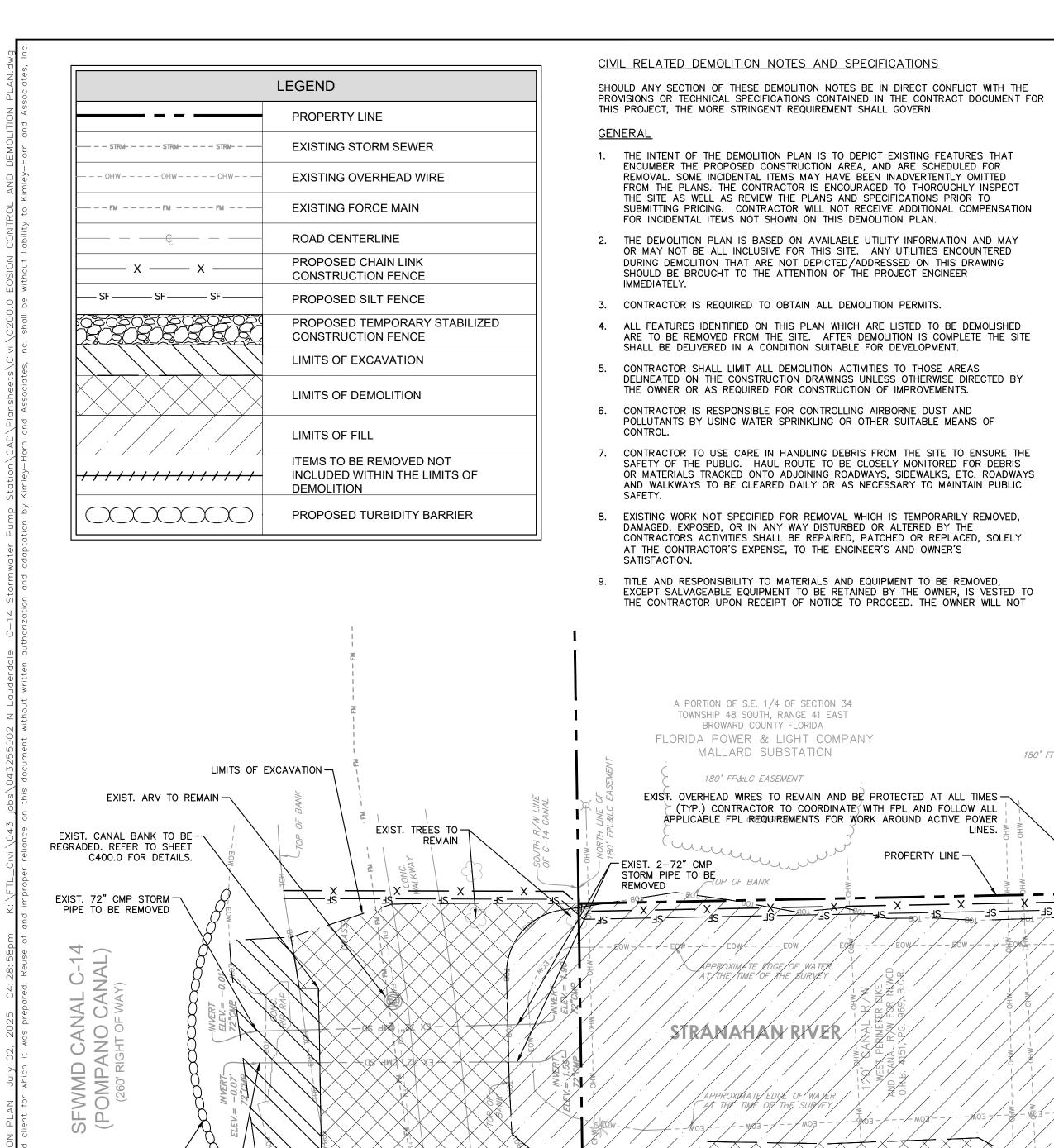
ALWAYS CALL 811

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www.callsunshine.com

SHEET NUMBER C100.0

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS. ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON THE NAVD 88. TO CONVERT ELEVATIONS TO NGVD 29, ADD 1.55'.



PROP. TURBIDITY — BARRIER (TYP.)

EXIST. 72" CMP STORM-

PIPE TO BE REMOVED

LIMITS OF DEMOLITION -

EXIST. 30" FORCEMAIN TO REMAIN -

CIVIL RELATED DEMOLITION NOTES AND SPECIFICATIONS BE RESPONSIBLE FOR THE CONDITION, LOSS OR DAMAGE TO SUCH MATERIALS AND EQUIPMENT AFTER THE ISSUANCE OF THE NOTICE TO PROCEED. SHOULD ANY SECTION OF THESE DEMOLITION NOTES BE IN DIRECT CONFLICT WITH THE

THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT EXISTING FEATURES THAT

ENCUMBER THE PROPOSED CONSTRUCTION AREA, AND ARE SCHEDULED FOR

REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN INADVERTENTLY OMITTED

THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO

FOR INCIDENTAL ITEMS NOT SHOWN ON THIS DEMOLITION PLAN.

IMMEDIATELY.

SATISFACTION.

EXIST. 2-72" CMP

REMOVED

PROP. TEMPORARY SILT

FENCE (TYP.)

LÎNK FENCE (JYP.)

PROPERTY LINE -

PROP. TEMPORARY CHAIN -

STORM PIPE TO BE

FROM THE PLANS. THE CONTRACTOR IS ENCOURAGED TO THOROUGHLY INSPECT

THE DEMOLITION PLAN IS BASED ON AVAILABLE UTILITY INFORMATION AND MAY

ALL FEATURES IDENTIFIED ON THIS PLAN WHICH ARE LISTED TO BE DEMOLISHED

DELINEATED ON THE CONSTRUCTION DRAWINGS UNLESS OTHERWISE DIRECTED BY

CONTRACTOR TO USE CARE IN HANDLING DEBRIS FROM THE SITE TO ENSURE THE

SAFETY OF THE PUBLIC. HAUL ROUTE TO BE CLOSELY MONITORED FOR DEBRIS OR MATERIALS TRACKED ONTO ADJOINING ROADWAYS, SIDEWALKS, ETC. ROADWAYS

AND WALKWAYS TO BE CLEARED DAILY OR AS NECESSARY TO MAINTAIN PUBLIC

EXISTING WORK NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY REMOVED,

CONTRACTORS ACTIVITIES SHALL BE REPAIRED, PATCHED OR REPLACED, SOLELY

EXCEPT SALVAGEABLE EQUIPMENT TO BE RETAINED BY THE OWNER, IS VESTED TO

THE CONTRACTOR UPON RECEIPT OF NOTICE TO PROCEED. THE OWNER WILL NOT

EXIST. OVERHEAD WIRES TO REMAIN AND BE PROTECTED AT ALL TIMES —

TYP.) CONTRACTOR TO COORDINATE WITH FPL AND FOLLOW ALL APPLICABLE FPL REQUIREMENTS FOR WORK AROUND ACTIVE POWER

EXIST. RIVÊR TO BE FILLED.

REFER TO SHEET C300.0 /

FOR SITE PLAN.

LIMITS OF DEMOLITION -

PROPERTY LINE —

TITLE AND RESPONSIBILITY TO MATERIALS AND EQUIPMENT TO BE REMOVED,

DAMAGED, EXPOSED, OR IN ANY WAY DISTURBED OR ALTERED BY THE

AT THE CONTRACTOR'S EXPENSE, TO THE ENGINEER'S AND OWNER'S

A PORTION OF S.E. 1/4 OF SECTION 34

TOWNSHIP 48 SOUTH, RANGE 41 EAST

BROWARD COUNTY FLORIDA

FLORIDA POWER & LIGHT COMPANY MALLARD SUBSTATION

180' FP&LC EASEMENT

STRANAHAN RIVER

A PORTION OF THE S.E. 1/4 OF SECTION 34

TOWNSHIP 48 SOUTH, RANGE 41 EAST BROWARD COUNTY FLORIDA

ARE TO BE REMOVED FROM THE SITE. AFTER DEMOLITION IS COMPLETE THE SITE

OR MAY NOT BE ALL INCLUSIVE FOR THIS SITE. ANY UTILITIES ENCOUNTERED

DURING DEMOLITION THAT ARE NOT DEPICTED/ADDRESSED ON THIS DRAWING

SHOULD BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER

SHALL BE DELIVERED IN A CONDITION SUITABLE FOR DEVELOPMENT.

CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITIES TO THOSE AREAS

THE OWNER OR AS REQUIRED FOR CONSTRUCTION OF IMPROVEMENTS.

CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AIRBORNE DUST AND POLLUTANTS BY USING WATER SPRINKLING OR OTHER SUITABLE MEANS OF

SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION

- 10. ALL ASPHALT TO BE REMOVED SHALL BE SAW CUT ADJACENT TO REMAINING IMPROVEMENTS. 11. WHERE REMAINING, INLETS, MANHOLE COVERS, AND VALVE COVERS TO BE
- PROTECTED IN PAVEMENT REMOVAL AREAS. 12. SEE SITE PLAN AND PAVING, GRADING AND DRAINAGE PLAN FOR LIMITS AND
- GRADING OF RESURFACED DRIVEWAYS AND ENTRANCES. 13. CONTRACTOR TO MAINTAIN DRAINAGE FLOW DURING AND AFTER CONSTRUCTION.
- 12. PROTECT ALL WATER AND FORCE MAINS. CONTRACTOR TO REPAIR IMMEDIATELY IF
- 14. CONTRACTOR TO MAINTAIN PEDESTRIAN TRAFFIC FLOW DURING REMOVAL/REINSTALLATION OF SIDEWALKS.
- 15. CONTRACTOR TO REMOVE ALL ABOVE GROUND AND UNDERGROUND FEATURES, UNLESS OTHERWISE NOTED, WITHIN THE LIMITS OF DEMOLITION.

180' FP&LC EASEMENT

- PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, ETC., NECESSARY AND INCIDENTAL TO THE COMPLETION OF ALL SITE DEMOLITION AND CLEARING WORK AS SHOWN ON THE DRAWINGS AND SPECIFICED HEREIN, INCLUDING THE LEGAL
- TRANSPORT AND OFF-SITE DISPOSAL OF DEMOLITION DEBRIS. 2. ALL SITE WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:
- 2.2. FULL-DEPTH REMOVAL OF EXISTING BUILDING FOUNDATIONS, UNDERGROUND UTILITIES AND RELATED STRUCTURES.

2.1. FULL-DEPTH REMOVAL OF EXISTING SIDEWALKS, DRIVES, CURBS AND PAVEMENT.

- 2.3. CLEARING SITE OF VEGETATION AND TREES.
- 2.4. CLEARING SITE OF DEMOLITION DEBRIS.
- 2.5. REMOVAL FROM SITE AND DISPOSAL OF ALL EXCESS AND UNUSABLE MATERIAL. **UTILITY NOTES**
- 1. IT SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.

REMOVED

PROPERTY LINE

CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH FPL ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.

- 3. CONTRACTOR SHALL VERIFY PROPER CLEARANCE BELOW EXISTING OVERHEAD POWER LINES PRIOR TO WORKING WITHIN THE VICINITY OF THE POWER LINES.
- 4. CONTRACTOR SHALL COORDINATE THE REMOVAL OF ALL UTILITIES WITH THE UTILITY COMPANIES.
- ALL EXISTING UTILITIES OUTSIDE THE PROPERTY BOUNDARIES ARE TO REMAIN, UNLESS OTHERWISE NOTED.
- PRIOR TO DEMOLITION ACTIVITIES, IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL AFFECTED UTILITY COMPANIES IN ORDER TO COORDINATE THE DEACTIVATION OF ALL EXISTING UTILITY LINES WITHIN THE PROPERTY. ONCE ALL ONSITE UTILITIES HAVE BEEN DEACTIVATED, ALL LINES SHALL BE CUT AND CAPPED INSIDE THE PROPERTY LINE, AND REMOVED (UNLESS OTHERWISE
- CONTRACTOR SHALL COORDINATE WITH FPL AS IT RELATES TO THE ANTICIPATED CONSTRUCTION ACTIVITIES ADJACENT TO THE FPL MALLARD SUBSTATION LOCATED AT 8181 SOUTHGATE BLVD, NORTH LAUDERDALE, FL 33068.

TRAFFIC MAINTENANCE

A PORTION OF S.E. 1/4 OF SECTION 34

TOWNSHIP 48 SOUTH, RANGE 41 EAST

BROWARD COUNTY FLORIDA

FLORIDA POWER & LIGHT COMPANY MALLARD SUBSTATION

LIMITS OF FILL -

TRUCK WASHDOWN -

DETENTION AREA

A PORTION OF THE S.E. 1/4 OF SECTION 34 TOWNSHIP 48 SOUTH, RANGE 41 EAST

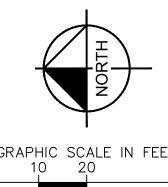
BROWARD COUNTY FLORIDA

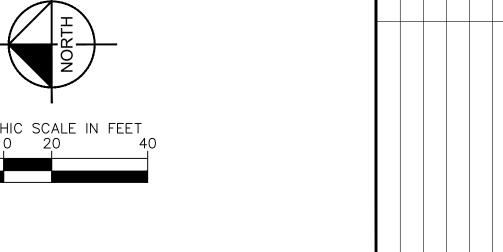
- CONTRACTOR SHALL FOLLOW FDOT MAINTENANCE OF TRAFFIC PROCEDURES DURING CONSTRUCTION IN PUBLIC RIGHT-OF-WAYS AND PRIVATE DRIVEWAYS, PEDESTRIAN PATHS, AND ROADWAYS (INDEX 600 SERIES), AND PREPARE AND OBTAIN APPROVAL OF SUCH MAINTENANCE OF TRAFFIC PLAN FROM THE APPROPRIATE REGULATORY AGENCY.
- CONTRACTOR SHALL PROVIDE ADEQUATE BRACING, SHORING, TEMPORARY CROSSOVER FOR PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING GUARDRAILS, LAMPS, WARNING SIGNS AND FLAGS AS REQUIRED BY AGENCIES HAVING JURISDICTION, AND SHALL NOT REMOVE THESE UNTIL THE NEED FOR PROTECTION
- CONTRACTOR MAY NOT CLOSE ANY SIDEWALKS WITHOUT PROVIDING ALTERNATE ROUTES IN ACCORDANCE WITH FDOT INDEX 660 AND OBTAINING APPROVAL AND PERMIT FROM THE GOVERNING JURISDICTIONAL AGENCY.

CONSTRUCTION

ENTRANCE

4. CONTRACTOR SHALL CONDUCT CONSTRUCTION OPERATIONS SO THAT TRAFFIC IS MAINTAINED ALONG EXISTING STREETS AND WALKS. ALL PUBLIC PAVED STREETS AND WALKWAYS MUST BE KEPT FREE OF DEBRIS. THE CONTRACTOR MUST REMOVE MATERIAL AND OTHER MATTER TRACKED OR FALLEN ONTO TRAFFIC SURFACES.





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SHEET NUMBER C200.0

ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON THE NAVD 88. TO CONVERT ELEVATIONS TO NGVD 29, ADD 1.55'.

PROPERTY LINE

EXIST. ±64-LF OF

DEMOLISHED

- CONTRACTOR TO REMOVE

±41-LF OF GUARDRAIL

TYPE 'F' CURB TO BE

KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG It's fast. It's free. It's the law.

PROP. TURBIDITY BARRIER -

TO BE PLACED UPSTREAM

OF THE CANAL'S OUTFALL

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS

BEST MANAGEMENT PRACTICES (BMPS):

THIS PLAN HAS BEEN PREPARED TO ENSURE COMPLIANCE WITH APPROPRIATE CONDITIONS OF THE BROWARD COUNTY LAND DEVELOPMENT REGULATIONS. THE RULES OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP), CHAPTER 17-25, F.A.C., THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD), CHAPTER 40D-4, F.A.C. AND THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) DOCUMENT NO. EPA 832/R-92-005 (SEPTEMBER 1992). THE PLAN ADDRESSES THE FOLLOWING:

- A. PREVENT LOSS OF SOIL DURING CONSTRUCTION BY STORMWATER RUNOFF AND/OR WIND EROSION, INCLUDING PROTECTING TOPSOIL BY STOCKPILING FOR REUSE.
- B. SEDIMENTION PROTECTION OF STORM SEWER OR RECEIVING STREAM.
- PREVENT POLLUTING THE AIR WITH DUST AND PARTICULATE MATTER. THE VARIOUS TECHNIQUES OR ACTIONS IDENTIFIED LINDER EACH SECTION INDICATE THE APPROPRIATE SITUATION WHEN THE TECHNIQUES SHOULD BE EMPLOYED. ALSO IDENTIFIED IS A CROSS-REFERENCE TO A DIAGRAM OR FIGURE REPRESENTING THE TECHNIQUE. IT SHOULD BI NOTED THAT THE MEASURES IDENTIFIED ON THIS PLAN ARE ONLY SUGGESTED BMP(S). THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND FROSION CONTROL MEASURES AS SPECIFIED IN ACCORDANCE WITH THE CURRENT FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS. CONTRACTOR SHALL PREPARE REQUIRED NPDES DOCUMENTATION AND OBTAIN PERMIT PRIOR TO COMMENCEMENT OF CONSTRUCTION IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE THE REQUIRED NPDES DOCUMENT AND OBTAIN THE NPDES PERMIT. ALL COST ASSOCIATED WITH SUCH WORK SHALL BE DEEMED INCIDENTAL TO THE PROJECT LUMP SUM COST.

GENERAL EROSION CONTROL NOTES:

- A. THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPRISED OF THESE EROSION CONTROL DRAWINGS, THE STANDARD DETAILS, THE NPDES PERMIT (TO BE OBTAINED BY CONTRACTOR) AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
- B. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THIS DRAWING AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
- C. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMP) IN ALL CONSTRUCTION ACTIVITIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
- FUEL SPILLS AND LEAKS PREVENTION PREVENT/REDUCE VEHICLE AND EQUIPTMENT WASHING AND STEAM CLEANING
- VEHICLE AND EQUIPTMENT MAINTENANCE AND REPAIR PROPER OUTDOOR LOADING/UNLOADING OF MATERIALS
- PREVENT/REDUCE OUTDOOR STORAGE OF RAW MATERIALS, PRODUCTS, AND BY-PRODUCTS SOLID WASTE MANAGEMENT
- HAZARDOUS WASTE MANAGEMENT CONCRETE WASTE MANAGEMENT
- SANDRI ASTING WASTE MANAGEMENT
- STRUCTURE CONSTRUCTION AND PAINTING SPILL PREVENTION AND CONTROL
- CONTAMINATED SOIL MANAGEMENT SANITARY/SEPTIC WASTE MANAGEMENT
- SOIL EROSION CONTROL STORM WATER TURBIDITY MANAGEMENT

ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.

- D. BEST MANAGEMENT PRACTICES (BMPS) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL
- IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER. E. SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS. CONTRACTOR MUST MAINTAIN ALL
- PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS ON SITE AT ALL TIMES.
- F. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT
- G. CONTRACTOR SHALL BEGIN CLEARING AND GRUBBING THOSE PORTIONS OF THE SITE NECESSARY TO IMPLEMENT PERIMETER CONTROL MEASURES. CLEARING AND GRUBBING FOR THE REMAINING PORTIONS OF THE PROPOSED SITE SHALL COMMENCE ONCE PERIMETER CONTROLS ARE IN PLACE. PERIMETER CONTROLS SHALL BE ACTIVELY MAINTAINED UNTIL SAID AREAS HAVE BEEN STABILIZED AND SHALL BE REMOVED ONCE FINAL STABILIZATION IS
- H. GENERAL EROSION CONTROL BMPS SHALL BE EMPLOYED TO MINIMIZE SOIL FROSION AND POTENTIAL LAKE SLOPE CAVE-INS. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED AS SOON AS POSSIBLE DURING
- ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS
- SURFACE WATER QUALITY SHALL BE MAINTAINED BY EMPLOYING THE FOLLOWING BMP'S IN THE CONSTRUCTION PLANNING AND CONSTRUCTION OF ALL IMPROVEMENTS.

STORM WATER EROSION CONTROL PRACTICES:

A. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT FROM DETENTION PONDS AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.

B. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.

C. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (COMPOST SOCK DEVICES, ETC.) TO PREVENT EROSION.

D. WHERE PRACTICAL, STORMWATER SHALL BE CONVEYED BY SWALES.

- E. EROSION CONTROL MEASURES SHALL BE EMPLOYED TO MINIMIZE TURBIDITY OF SURFACE WATERS LOCATED DOWNSTREAM OF ANY CONSTRUCTION ACTIVITY. WHILE THE VARIOUS MEASURES REQUIRED WILL BE SITE SPECIFIC, THEY SHALL BE EMPLOYED AS NEEDED IN ACCORDANCE WITH THE FOLLOWING:
- IN GENERAL, EROSION SHALL BE CONTROLLED AT THE FURTHEST PRACTICAL UPSTREAM
- STORMWATER INLETS SHALL BE PROTECTED DURING CONSTRUCTION. PROTECTION MEASURES SHALL BE EMPLOYED AS SOON AS PRACTICAL DURING THE VARIOUS STAGES OF INLET CONSTRUCTION. SILT BARRIERS SHALL REMAIN IN PLACE UNTIL SODDING AROUND
- WHEN NEEDED A TEMPORARY SEDIMENT TRAP SHOLD BE CONSTRUCTED TO DETAIN SEDIMENT-LADEN RUNOFF FROM DISTURBED AREAS.
- F. SILT BARRIERS, ANY SILT WHICH ACCUMULATES BEHIND THE BARRIERS, AND ANY FILL USED TO ANCHOR THE BARRIERS SHALL BE REMOVED PROMPTLY AFTER THE END OF THE MAINTENANCE PERIOD SPECIFIED FOR THE BARRIERS.

- CONTRACTOR TO CONSIDER POTENTIAL DEWATERING ACTIVITIES WHEN PREPARING BID DOCUMENTS FOR THIS PROJECT.
- CONTRACTOR SHALL OBTAIN ANY NECESSARY DEWATERING PERMITS AS SITE CONDITIONS AND CONSTRUCTION ACTIVITIES REQUIRE.
- CONTRACTOR TO USE BEST MANAGEMENT PRACTICES TO ENSURE COMPLIANCE WITH NPDES AND WATER MANAGEMENT DISTRICT REGULATIONS FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES AND DEWATERING OPERATIONS.
- IT SHOULD BE NOTED THAT THE MEASURE IDENTIFIED ON THIS PLAN ARE ONLY SUGGESTED BMP(S). THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES AS NECESSARY TO CONFORM TO CURRENT CITY, FDEP AND SFWMD CODES AND SPECIFICATIONS.
- G. SLOPES OF BANKS OF RETENTION/DETENTION PONDS SHALL BE CONSTRUCTED NOT STEEPER THAN 3H:1V FROM TOP OF BANK TO TWO FEET BELOW NORMAL WATER LEVEL, AS APPLICABLE.
- H. SOD SHALL BE PLACED FOR A 2-FOOT WIDE STRIP ADJOINING ALL CURBING AND AROUND ALL INLETS. SOD SHALL BE PLACED BEFORE SILT BARRIERS ARE REMOVED.
- WHERE REQUIRED TO PREVENT EROSION FROM SHEET FLOW ACROSS BARE GROUND FROM ENTERING A LAKE OR SWALE, A TEMPORARY SEDIMENT SUMP SHALL BE CONSTRUCTED.
- . FILTER FABRIC SHOULD BE USED FOR STORM DRAIN INLET PROTECTION BEFORE FINAL STABILIZATION

WIND EROSION CONTROL PRACTICES:

- A. WIND EROSION SHALL BE CONTROLLED BY EMPLOYING THE FOLLOWING METHODS AS NECESSARY AND APPROPRIATE:
- BARE EARTH AREAS SHALL BE WATERED DURING CONSTRUCTION AS NECESSARY TO MINIMIZE THE TRANSPORT OF FUGITIVE DUST. IT MAY BE NECESSARY TO LIMIT. CONSTRUCTION VEHICLE SPEED IF BARE EARTH HAS NOT BEEN EFFECTIVELY WATERED. IN NO CASE SHALL FUGITIVE DUST BE ALLOWED TO LEAVE THE SITE UNDER CONSTRUCTION.
- DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED (SEE PERMANENT STABALIZATION PRACTICES FOR DETAILS). THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN. CLEARED SITE DEVELOPMENT AREAS NOT CONTINUALLY SCHEDULED FOR CONSTRUCTION ACTIVITIES SHALL BE COVERED WITH HAY OR OVERSEEDED AND PERIODICALLY WATERED SUFFICIENTLY TO STABILIZE THE TEMPORARY GROUNDCOVER (SEE TEMPORARY STABALIZATION PRACTICES FOR DETAILS).
- AT ANY TIME BOTH DURING AND AFTER SITE CONSTRUCTION THAT WATERING AND/OR VEGETATION ARE NOT EFFECTIVE IN CONTROLLING WIND EROSION AND/OR TRANSPORT OF FUGITIVE DUST. OTHER METHODS AS ARE NECESSARY FOR SUCH CONTROL SHALL BE EMPLOYED. THESE METHODS SHOULD INCLUDE ERECTION OF DUST CONTROL FENCES. A 6-FT GEOTEXTILE FILTER FIBER SHOULD BE HANGING AGAINST THE EXISTING CHAIN LINK
- B. ALL DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED

STABILIZATION PRACTICES:

SHALL BE IN ACCORDANCE WITH DEP DOCUMENT NO 62-621.300(4)(a)

STRUCTURAL PRACTICES

SHALL BE IN ACCORDANCE WITH DEP DOCUMENT NO 62-621.300(4)(a)

WASTE DISPOSAL

- A. WASTE MATERIALS ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A METAL DUMPSTER WITH A SECURE LID IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER. THE SUPERINTENDENT SHALL COORDINATE WITH THE LOCAL UTILITIES TO HAVE THE DUMPSTER EMPTIED AT LEAST TWICE A WEEK AND THE WASTE TAKEN TO AN APPROPRIATE LANDEILL NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE. THE SUPERINTENDENT SHALL ORGANIZE TRAINING FOR THE EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH WASTE MATERIALS. THE SUPERINTENDENT SHALL BE RESPONSIBLE FOR POSTING AND ENFORCING WASTE MATERIAL PROCEDURES
- B. HAZARDOUS WASTE HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS OR AS DIRECTED BY THE MANUFACTURER. THE SUPERINTENDENT SHALL ORGANIZE THE PROPER TRAINING FOR EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH HAZARDOUS WASTE MATERIALS. THESE PROCEDURES SHALL BE POSTED ON THE SITE. THE PERSON WHO MANAGES THE SITE SHALL BE RESPONSIBLE FOR ENFORCING THE PROCEDURES.
- C. SANITARY WASTE SANITARY WASTE SHALL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. THE SUPERINTENDENT SHALL COORDINATE WITH THE LOCAL UTILITY FOR COLLECTION OF THE SANITARY WASTE AT LEAST THREE TIMES A WEEK TO PREVENT SPILLAGE ONTO THE SITE.
- D. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

OFFSITE TRACKING:

- A. STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED TO REDUCE SEDIMENT TRACKING OFFSITE THE MAJOR ROAD CONNECTED TO THE PROJECT SHALL BE CLEANED ONCE A DAY TO REMOVE ANY EXCESS MUD. DIRT OR ROCK RESULTING FROM CONSTRUCTION TRAFFIC. ALL TRUCKS HAULING MATERIALS OFFSITE SHALL BE COVERED WITH A TARPAULIN.
- B. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE FOUIPMENT MAINTENANCE AND CLEANING AREA EMPLOYEE PARKING AREA. AND AREA FOR LOCATION PORTABLE FACILITIES. OFFICE TRAILERS AND TOILET FACILITIES. HEAVY CONSTRUCTION EQUIPMENT PARKING AND MAINTENANCE AREAS SHALL BE DESIGNED TO PREVENT OIL. GREASE. AND LUBRICANTS FROM ENTERING SITE DRAINAGE FEATURES INCLUDING STORMWATER COLLECTION AND TREATMENT SYSTEMS CONTRACTORS SHALL PROVIDE BROAD DIKES, HAY BALES OR SILT SCREENS AROUND, AND SEDIMENT SUMPS WITHIN, SUCH AREAS AS REQUIRED TO CONTAIN SPILLS OF OIL, GREASE OR LUBRICANTS. CONTRACTORS SHALL HAVE AVAILABLE. AND SHALL USE. ABSORBENT FILTER PADS TO CLEAN UP SPILLS AS SOON AS POSSIBLE AFTER OCCURRENCE
- C. ALL WASH WATER FROM CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC SHALL BE DETAINED ON SITE AND SHALL BE PROPERLY TREATED OR DISPOSED.
- D. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED REFORE THE VEHICLES ENTER A PUBLIC ROAD IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF
- E. ALL MATERIALS SPILLED. DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

MAINTENANCE

ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN. AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

- A. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
- B. B.ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RE-SEEDED AS NEEDED.
- C. THE COMPOST ROCK FILTRATION DEVICE SHALL BE INSPECTED PERIODICALLY FOR HEIGHT OF SEDIMENT AND CONDITION OF DEVICE, COMPOST SOCK SHALL BE REPAIRED TO ITS ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE COMPOST SOCK WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE COMPOST SOCK.
- D. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
- THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
- F. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. THE SEDIMENT BASINS/DITCHES SHALL BE CHECKED MONTHLY FOR DEPTH OF SEDIMENT. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 10% AND AFTER CONSTRUCTION IS COMPLETE.

G. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER

- THAN SEVEN CALENDAR DAYS FOLLOWING THE INSPECTION.DIVERSION DIKES SHALL BE INSPECTED MONTHLY. ANY BREACHES SHALL BE PROMPTLY REPAIRED. H. A MAINTENANCE REPORT SHALL BE COMPLETED DAILY AFTER EACH INSPECTION OF THE
- SEDIMENT AND EROSION CONTROL METHODS. THE REPORTS SHALL BE FILED IN AN ORGANIZED MANNER AND RETAINED ON-SITE DURING CONSTRUCTION. AFTER CONSTRUCTION IS COMPLETED. THE REPORTS SHALL BE SAVED FOR AT LEAST THREE YEARS. THE REPORTS SHALL BE AVAILABLE FOR ANY AGENCY THAT HAS JURISDICTION OVER EROSION CONTROL.
- ALL REPAIRS MUST BE MADE WITHIN 24 HOURS OF REPORT.
- J. THE SUPERINTENDENT SHALL ORGANIZE THE TRAINING FOR INSPECTION PROCEDURES AND PROPER EROSION CONTROL METHODS FOR EMPLOYEES THAT COMPLETE INSPECTIONS AND
- K. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE

SPILL PREVENTION AND CONTROL

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO

STORM WATER RUNOFF.

- A. GOOD HOUSEKEEPING
- SUPERINTENDENT SHALL INSPECT PROJECT AREA DAILY FOR PROPER STORAGE, USE, AND DISPOSAL OF CONSTRUCTION MATERIALS.
- 2. STORE ONLY ENOUGH MATERIAL ON SITE FOR PROJECT COMPLETION.
- ALL SUBSTANCES SHOULD BE USED BEFORE DISPOSAL OF CONTAINER.
- ALL CONSTRUCTION MATERIALS STORED SHALL BE ORGANIZED AND IN THE PROPER CONTAINER AND IF POSSIBLE, STORED UNDER A ROOF OR PROTECTIVE COVER.
- PRODUCTS SHALL NOT BE MIXED UNLESS DIRECTED BY THE MANUFACTURER
- ALL PRODUCTS SHALL BE USED AND DISPOSED OF ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

B. HAZARDOUS PRODUCTS

- MATERIALS SHOULD BE KEPT IN ORIGINAL CONTAINER WITH LABELS UNLESS THE ORIGINAL CONTAINERS CANNOT BE RESEALED. IF ORIGINAL CONTAINERS CANNOT BE USED, LABELS AND PRODUCT INFORMATION SHALL BE SAVED.
- PROPER DISPOSAL PRACTICES SHALL ALWAYS BE FOLLOWED IN ACCORDANCE WITH MANUFACTURER AND LOCAL/STATE REGULATIONS.

C. PRODUCT SPECIFIC PRACTICES

- PETROLEUM PRODUCTS MUST BE STORED IN PROPER CONTAINERS AND CLEARLY LABELED VEHICLES CONTAINING PETROLEUM PRODUCTS SHALL BE PERIODICALLY INSPECTED FOR LEAKS. PRECAUTIONS SHALL BE TAKEN TO AVOID LEAKAGE OF PETROLEUM PRODUCTS ON
- THE MINIMUM AMOUNT OF FERTILIZER SHALL BE USED AND MIXED INTO THE SOIL IN ORDER TO LIMIT EXPOSURE TO STORM WATER. FERTILIZERS SHALL BE STORED IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
- PAINT CONTAINERS SHALL BE SEALED AND STORED WHEN NOT IN USE. EXCESS PAINT MUST BE DISPOSED OF IN AN APPROVED MANNER.
- CONCRETE TRUCKS SHALL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

SPILL CLEAN UP:

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED ABOVE, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

- C. SPILL CLEANUP INFORMATION SHALL BE POSTED ON SITE TO INFORM EMPLOYEES ABOUT CLEANUP PROCEDURES AND RESOURCES
- D. THE FOLLOWING CLEAN-UP EQUIPMENT MUST BE KEPT ON-SITE NEAR THE MATERIAL STORAGE AREA: GLOVES, MOPS, RAGS, BROOMS, DUST PANS, SAND, SAWDUST, LIQUID ABSORBER, GOGGLES AND TRASH CONTAINERS
- E. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ONSITE AND READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS
- F. ALL SPILLS SHALL BE CLEANED UP AS SOON AS POSSIBLE.
- G. WHEN CLEANING A SPILL, THE AREA SHOULD BE WELL VENTILATED AND THE EMPLOYEE SHALL WEAR PROPER PROTECTIVE COVERING TO PREVENT INJURY
- H. TOXIC SPILLS MUST BE REPORTED TO THE PROPER AUTHORITY REGARDLESS OF THE SIZE OF THE SPILL
- I. AFTER A SPILL, THE PREVENTION PLAN SHALL BE REVIEWED AND CHANGED TO PREVENT FURTHER SIMILAR SPILLS FROM OCCURRING. THE CAUSE OF THE SPILL, MEASURES TO PREVENT IT, AND HOW TO CLEAN THE SPILL UP SHALL BE RECORDED.
- THE SUPERINTENDENT SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR AND IS RESPONSIBLE FOR THE DAY TO DAY SITE OPERATIONS. THE SUPERINTENDENT ALSO OVERSEES THE SPILL PREVENTION PLAN AND SHALL BE RESPONSIBLE FOR EDUCATING THE EMPLOYEES ABOUT SPILL PREVENTION AND CLEANUP PROCEDURES.

SEQUENCE OF CONSTRUCTION

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAY DOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION

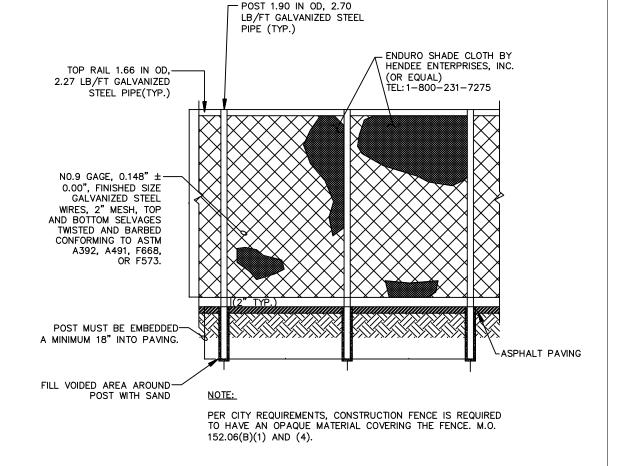
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AND INSTALL SILT FENCE
- DEMOLISH EXISTING STRUCTURES, (IF APPLICABLE)
- CONSTRUCT AND STABILIZE SEDIMENT BASIN AND DRAINAGE SWALES WITH APPROPRIATE OUTFALL STRUCTURES (CLEAR ONLY THOSE AREAS NECESSARY TO NSTALL CONTROL DEVICES LISTED ABOVE)
- INSTALL AND STABILIZE ANY NECESSARY HYDRAULIC CONTROL STRUCTURES (DIKES,
- CHECK DAMS, OUTLET TRAPS, ETC.) PREPARE CLEARING AND GRUBBING OF THE SITE, (IF APPLICABLE)
- 6. START CONSTRUCTION OF THE STRUCTURES
- PERFORM MASS GRADING. ROUGH GRADE TO ESTABLISH PROPOSED DRAINAGE PATTERNS.
- TEMPORARILY SEED, THROUGHOUT CONSTRUCTION, DISTURBED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE AS REQUIRED BY GENERIC PERMIT HALT ALL ACTIVITIES AND CONTACT THE CIVIL ENGINEER CONSULTANT TO PERFORM INSPECTION

AND CERTIFICATION OF BMPS. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM

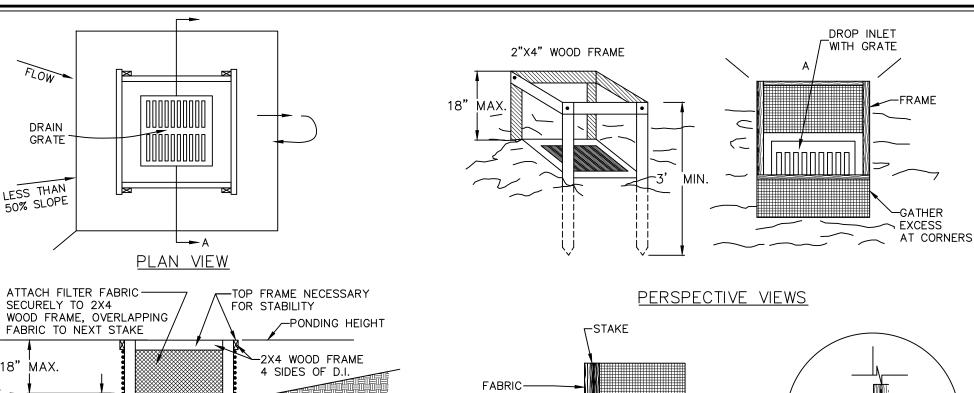
CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION. CONTRACTOR TO BE RESPONSIBLE FOR OBTAINING ALL DEWATERING PERMITS NECESSARY FOR

WATER PRE-CONSTRUCTION MEETING WITH ENGINEER AND ALL GROUND DISTURBING

NOTE: THE SEQUENCE OF CONSTRUCTION SHOWN ABOVE IS A GENERAL OVERVIEW AND IS INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE EROSION CONTROL DESIGN AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETAILED PHASING AND CONSTRUCTION SEQUENCING NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS INCLUDED IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IMMEDIATELY, PRIOR TO AND/OR DURING CONSTRUCTION IF ANY ADDITIONAL INFORMATION ON THE CONSTRUCTION SEQUENCE IS NECESSARY. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND ALL OTHER APPLICABLE LAWS.



6' CHAIN LINK CONSTRUCTION FENCE WITH VISUAL DUST SCREEN



SECTION A-A NOTES:

1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS

DROP

2. USE 2X4 OR EQUIVALENT METAL STAKES, (3' MIN. LENGTH)

3. INSTALL 2X4 TOP WOOD FRAME TO INSURE STABILITY.

THE DOWNSLOPE SIDE OF THE STRUCTURE

WOOD POST

WOOD POST

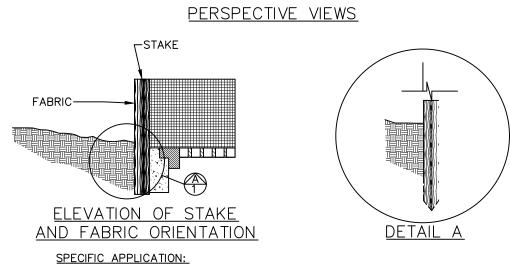
36" HIGH MAX.

THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BY PASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON

CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE

PONDING EFFICIENCY.

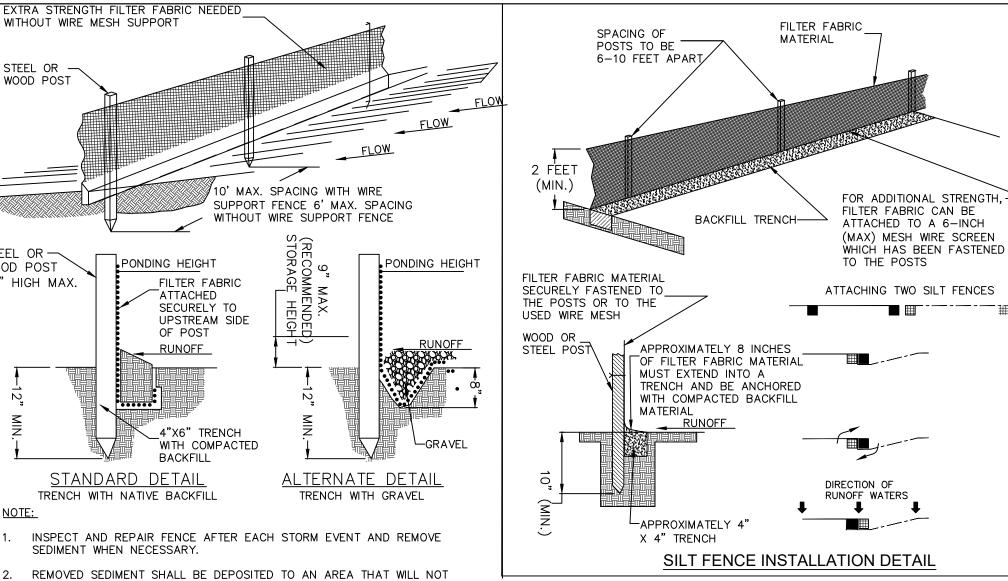


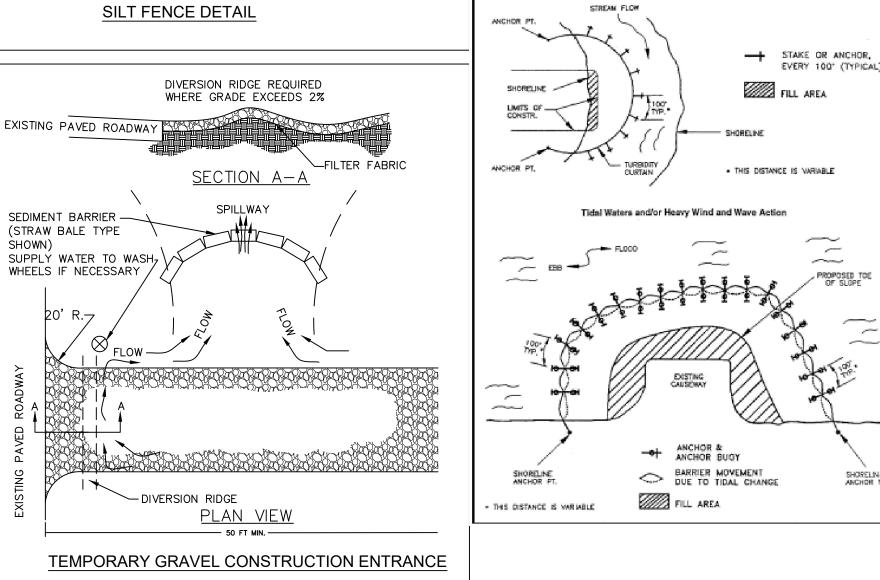
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS IS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVERLAND FLOWS (NOT EXCEEDING 1 C.F.S.) ARE TYPICAL THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

itreams, Ponds, and Lakes (Protected and Non-Tidal)

TURBIDITY BARRIER DETAIL

FILTER FABRIC DROP INLET SEDIMENT BARRIER





TEMPORARY GRAVEL CONSTRUCTION ENTRANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED

WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR

HE PRESENCE OF GROUNDWATER SHOULD BE

NCLUDE CONSIDERATION FOR ADDRESSING THIS

SSUE AND OBTAINING ALL NECESSARY PERMITS.

ANTICIPATED. CONTRACTOR'S BID SHALL

ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON THE NAVD 88. TO CONVERT ELEVATIONS TO NGVD 29, ADD 1.55'.



RD

 \Box

SHEET NUMBER C201.0





PROPOSED EARTHWORK CONDITIONS

PROPERTY LINE

LEGEND	
	PROPERTY LINE
OHW OHW	EXISTING OVERHEAD WIRE
	EXISTING FORCE MAIN
<u> </u>	ROAD CENTERLINE
— EX EOW—— EX EOW—	EXISTING EDGE OF WATER
EOW EOW	PROPOSED EDGE OF WATER
	EARTHWORK - CUT (2,500 CY)*
	EARTHWORK - FILL (3,100 CY)*

CITY OF TAMARAC PUMP STATION A PORTION OF THE S.E. 1/4 OF SECTION 34 TOWNSHIP 48 SOUTH, RANGE 41 EAST BROWARD COUNTY FLORIDA

*VOLUME FOR AGENCY REFRENCE ONLY

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

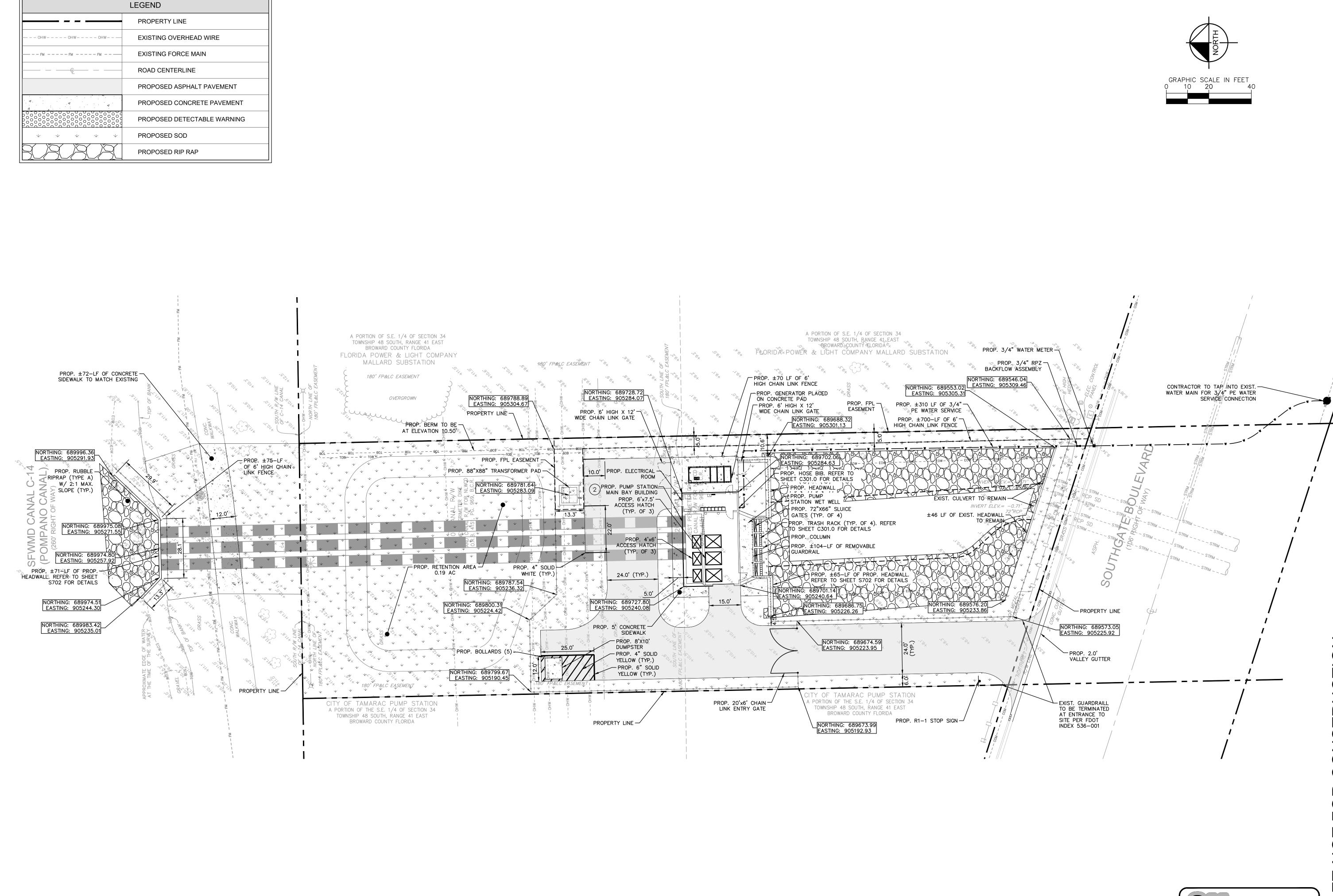
CITY OF TAMARAC PUMP STATION A PORTION OF THE S.E. 1/4 OF SECTION 34 TOWNSHIP 48 SOUTH, RANGE 41 EAST BROWARD COUNTY FLORIDA

ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON THE NAVD 88. TO CONVERT ELEVATIONS TO NGVD 29, ADD 1.55'.



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SHEET NUMBER C202.0



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ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON THE NAVD 88. TO CONVERT ELEVATIONS TO NGVD 29, ADD 1.55'.

THE PRESENCE OF GROUNDWATER SHOULD BE

INCLUDE CONSIDERATION FOR ADDRESSING THIS

ISSUE AND OBTAINING ALL NECESSARY PERMITS.

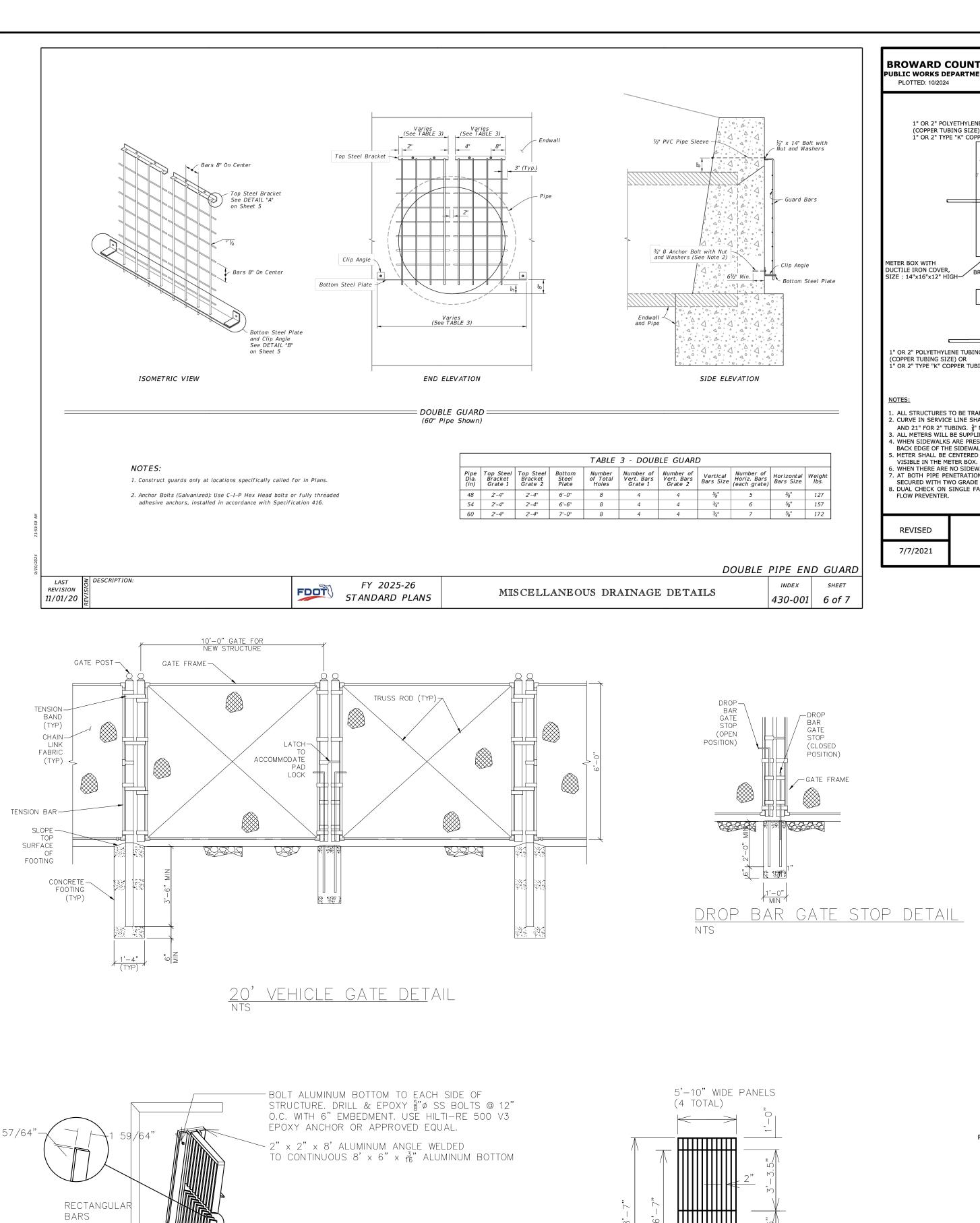
ANTICIPATED. CONTRACTOR'S BID SHALL

SHEET NUMBER C300.0

 \Box

NORTH LAUDERDALE C-14 STORMWATER PUMP STATION

SIT



-2" x 2" x 6' ALUMINUM ANGLE WELDED TO CONTINUOUS 6' x 6-5/8" X 3" ALUMINUM BOTTOM

STRUCTURE. DRILL AND EPOXY \(\frac{5}{8} \) \(\psi \) SS BOLTS \(\Phi \) 12"

ALUMINUM BAR GRATE DETAIL

ALUMINUM BAR GRATE SHALL BE CONSTRUCTED

TOP & BOTTOM HORIZONTAL SUPPORTS EVERY 4'-0".

IN 5'-10" WIDE PANELS. PROVIDE WELDED

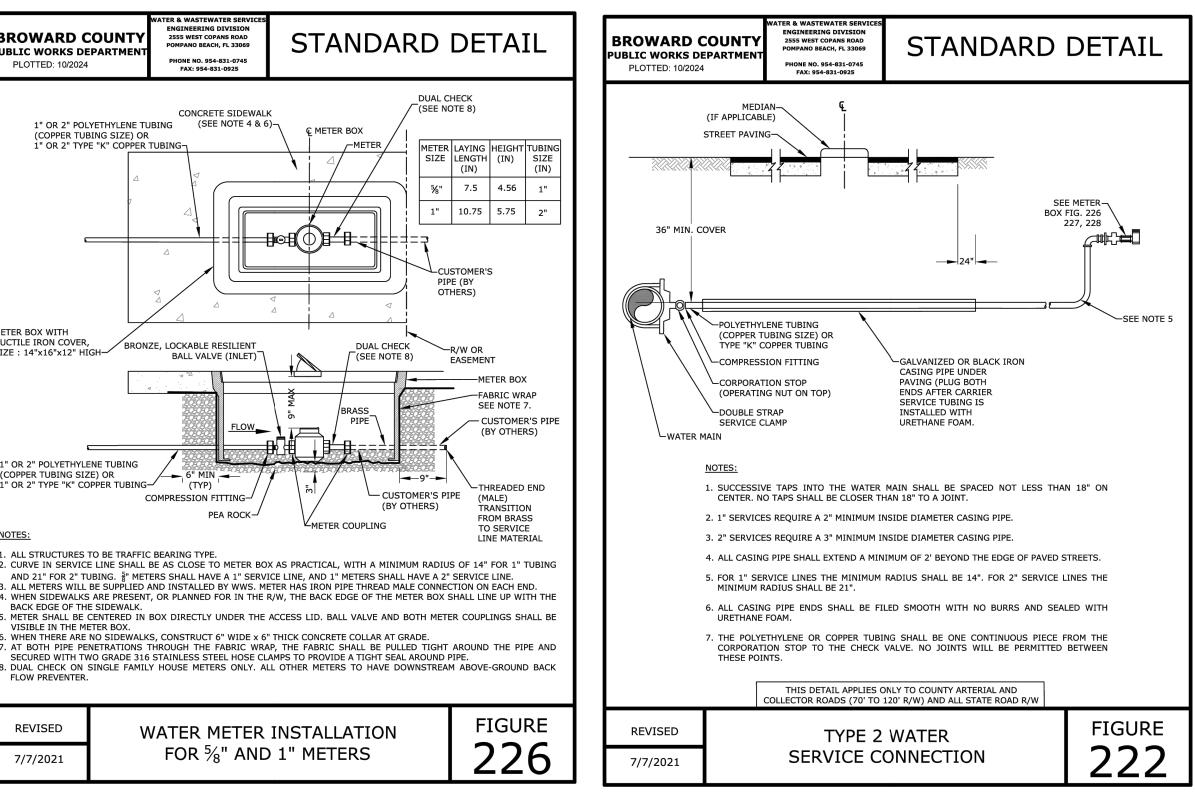
N.T.S.

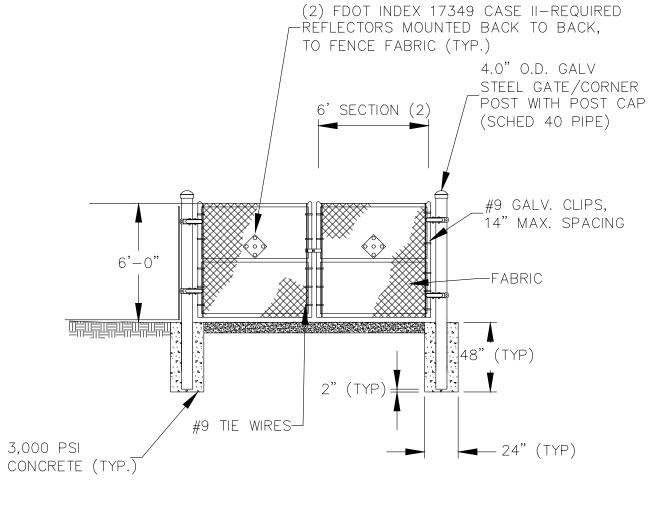
O.C. WITH 6" EMBEDMENT. USE HILTI-RE 500 V3

-BOLT ALUMINUM BOTTOM TO BOTTOM OF

EPOXY ANCHOR OR APPROVED EQUAL.

ALUMINUM BAR GRATE SUPPORT DETAIL N.T.S.

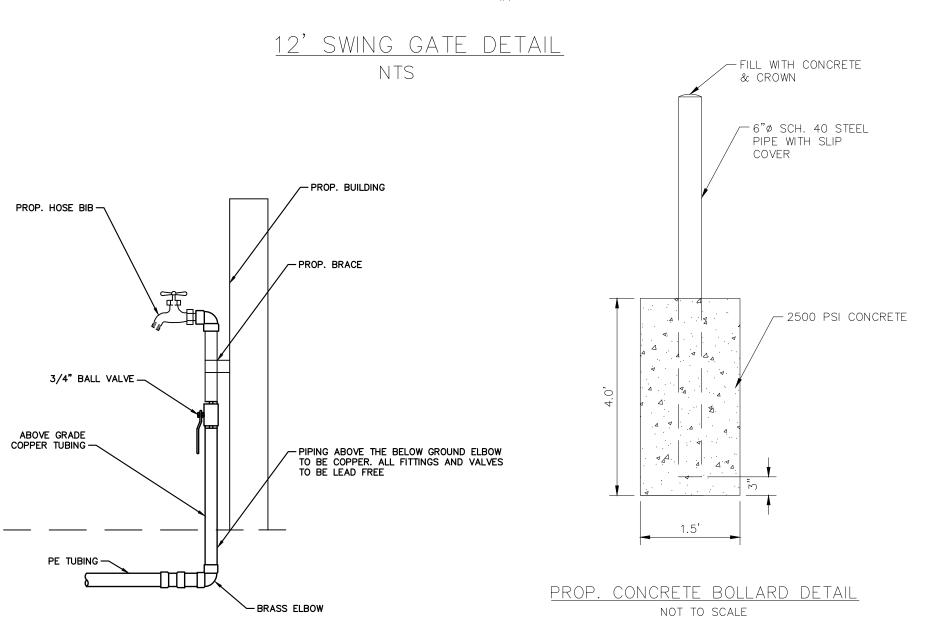




NOTES:

HOSE BIB DETAIL N.T.S

- 1. GATE SECTIONS SHALL BE HORIZONTALLY CROSS-BRACED AT THE MIDPOINT WITH 1.660" DIA. SCHEDULE 40 STEEL PIPE.
- 2. 3-BARB WIRE STRANDS W/GALV. BRACKETS, SET VERTICAL OVER GATE. 3. GATE POST: 4" OUTSIDE DIAMETER PIPE, 9.1 #/FT.



THE PRESENCE OF GROUNDWATER SHOULD BE

INCLUDE CONSIDERATION FOR ADDRESSING THIS

ISSUE AND OBTAINING ALL NECESSARY PERMITS.

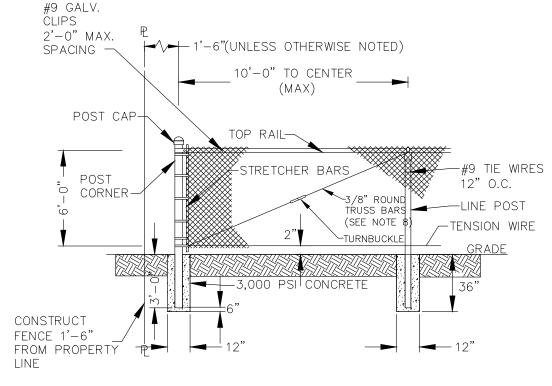
ANTICIPATED. CONTRACTOR'S BID SHALL

8. ALL FENCING MATERIALS: TO BE HOT DIPPED GALVANIZED. <u>DETAIL</u> NTS

ALL ELEVATIONS SHOWN ON THESE PLANS ARE

BASED ON THE NAVD 88. TO CONVERT

ELEVATIONS TO NGVD 29, ADD 1.55'.



NOTES:

- 1. FABRIC: No 9 GALV STEEL WIRE, 2" MESH, BLACK VINYL COATED. 1. FABRIC TIES: No 9 GALV STEEL WIRE SPACED 12" APART ON POST AND 24" APART ON RAILS.
- CORNER POST: 3" OUTSIDE DIAMETER PIPE, 5.79 #/FT. LINE POST: 2½" OUTSIDE DIAMETER PIPE, 5.79 #/FT - SCHED 40.
- TOP RAIL: 1%" OUTSIDE DIAMETER PIPE, 2.27 #/FT. NUTS, BOLTS & SCREWS: SHALL BE OF GALVANIZED STEEL, MIN SIZE 3/8" DIAMETER. BOTTOM WIRE: COIL SPRING WIRE 7 GA.
- TRUSS BARS ARE REQUIRED FOR THE FIRST SPAN ON EACH SIDE OF A CORNER POST

CHAIN-LINK FENCE



NORTH LAUDERDALE C-14 STORMWATER PUMP STATION

IGINEERIN(DETAILS

a

SHEET NUMBER C301.0

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KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG $\mathbf{\Omega}$

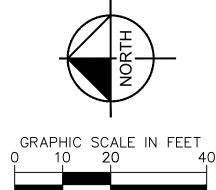
LEGEND		
	PROPERTY LINE	
	EXISTING FORCE MAIN	
	EXISTING STORM SEWER	
OHWOHWOHW	EXISTING OVERHEAD WIRE	
	ROAD CENTERLINE	
	PROPOSED STORM SEWER	
	PROPOSED ASPHALT PAVEMENT	
1 4 4 A A A A A A A A A A A A A A A A A	PROPOSED CONCRETE PAVEMENT	
808080	PROPOSED RIP RAP	
11.00	PROPOSED GRADE	
M.E.±11.00	MATCH EXISTING GRADE	
X	PROPOSED SIDEWALK GRADE	
×11.0'	EXISTING GRADE	
~~~	FLOW ARROW	
V V V V	PROPOSED SOD	

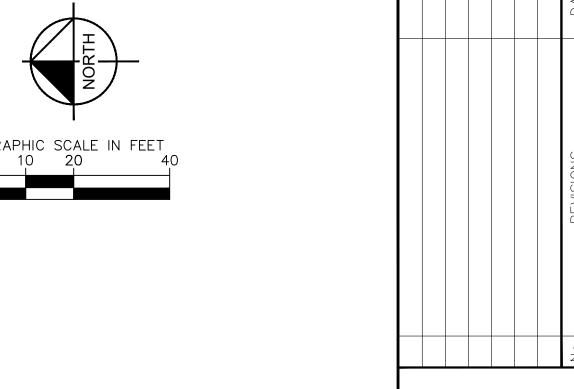
#### **GENERAL NOTES:**

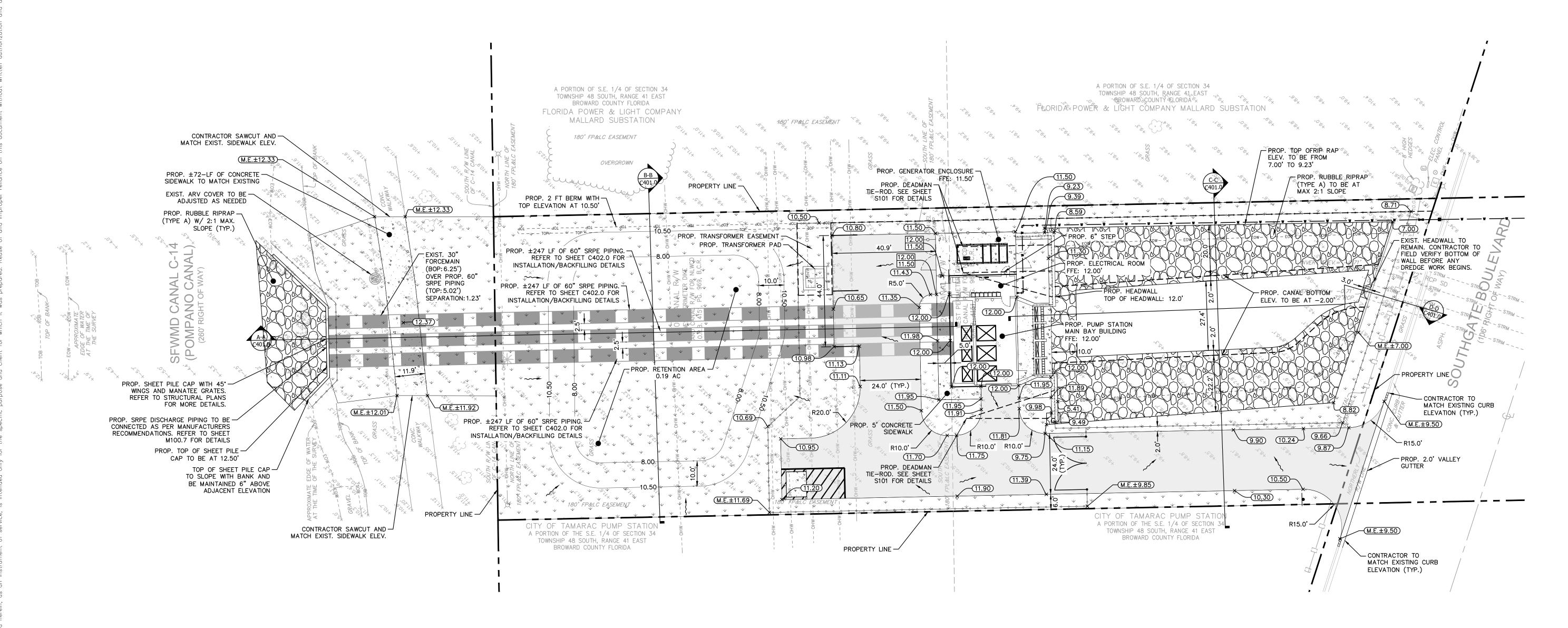
- 1. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- 2. THE CONTRACTOR SHALL CONTACT THE SITE ENGINEER REGARDING ANY GRADING REVISIONS PRIOR TO CONSTRUCTION OF THE PAVEMENT AREAS.
- 3. CONTRACTOR TO ADJUST ANY MANHOLE RIMS AND VALVE LIDS TO MATCH PROPOSED
- 4. IF ANY EXISTING STORM DRAINAGE STRUCTURES AND PIPES TO REMAIN IN SERVICE ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR THOSE STRUCTURES TO PRIOR CONDITION, OR BETTER, OR TO REPLACE THEM, AS
- 5. ALL STORM SEWER MANHOLES AND ARVS IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING FRAME AND COVER.
- 6. ALL MAXIMUM SLOPES ARE ABSOLUTE AND SUPERSEDE CONSTRUCTION TOLERANCES STATED IN THE PROJECT SPECIFICATIONS. THE CONTRACTOR HAS THE OPTION OF ADJUSTING GRADES TO ALLOW FOR CONSTRUCTION TOLERANCES BUT SHALL NOT EXCEED MAXIMUMS SPECIFIED ABOVE BY ANY AMOUNT. PAVEMENT SLOPES WILL BE REVIEWED AFTER CONSTRUCTION AND ANY SLOPES FOUND TO EXCEED THE MAXIMUM SPECIFIED ABOVE WILL BE REPLACED AT THE CONTRACTORS EXPENSE
- 7. LEVEL CHANGES BETWEEN GROUND SURFACE MATERIALS MUST NOT EXCEED 1/2 INCH HIGH. IF A LEVEL CHANGE DOES EXCEED \$\frac{1}{4}\$ INCH HIGH IT MUST BE BEVELED WITH A SLOPE THAT DOES NOT EXCEED \( \frac{1}{2} \) (V:H) FOR A LEVEL CHANGE UP TO \( \frac{1}{2} \) INCH HIGH. IF THE CHANGE IS MORE THAN 1 INCH THE CHANGE MUST BE RAMPED AND NOT TO EXCEED A SLOPE OF 17
- 8. ALL PROPOSED AND EXISTING DRAINAGE INFRASTRUCTURE SHALL BE CLEANED/INSPECTED FROM WORK AREA TO OUTFALL AS PART OF THIS PROJECT.

#### ADA NOTES:

- 1. ALL WALKWAYS SHALL HAVE A SLOPE LESS THAN 2% PERPENDICULAR TO THE DIRECTION OF TRAVEL AND LESS THAN 5% IN THE DIRECTION OF TRAVEL.
- 2. ALL WALKWAYS NEAR BUILDING ENTRANCES SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION FOR A MINIMUM OF 60 INCHES, MEASURED PERPENDICULAR TO THE FACE OF
- 3. CLEAR WIDTH OF ACCESSIBLE ROUTE MUST BE A MINIMUM OF 36 INCHES.
- 4. RUNNING SLOPE OF RAMPS AND CURB RAMPS CANNOT EXCEED 8.33%. IF VERTICAL RISE IS LESS THAN 6 INCHES, HANDRAILS ARE NOT REQUIRED.
- 5. SLOPES AT INTERSECTIONS OF ACCESSIBLE ROUTES MUST NOT EXCEED 2%, MEASURED IN ANY DIRECTION.
- 6. SLOPES OF CLEAR FLOOR SPACES AT FIXTURES AND CONTROLS MUST NOT EXCEED 2%, MEASURED IN ANY DIRECTION. THE 30X48 INCH CLEAR FLOOR SPACE PROVIDED AT THE CONTROL MUST BE FLUSH WITH THE CONTROL.
- 7. GAPS OR OPENINGS ALONG THE ACCESSIBLE ROUTE MUST NOT EXCEED 1/2 INCH WIDTH, PERPENDICULAR TO THE PREDOMINATE FLOW OF PEDESTRIAN TRAFFIC.







THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

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KNOW WHAT'S BELOW

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SHEET NUMBER C400.0

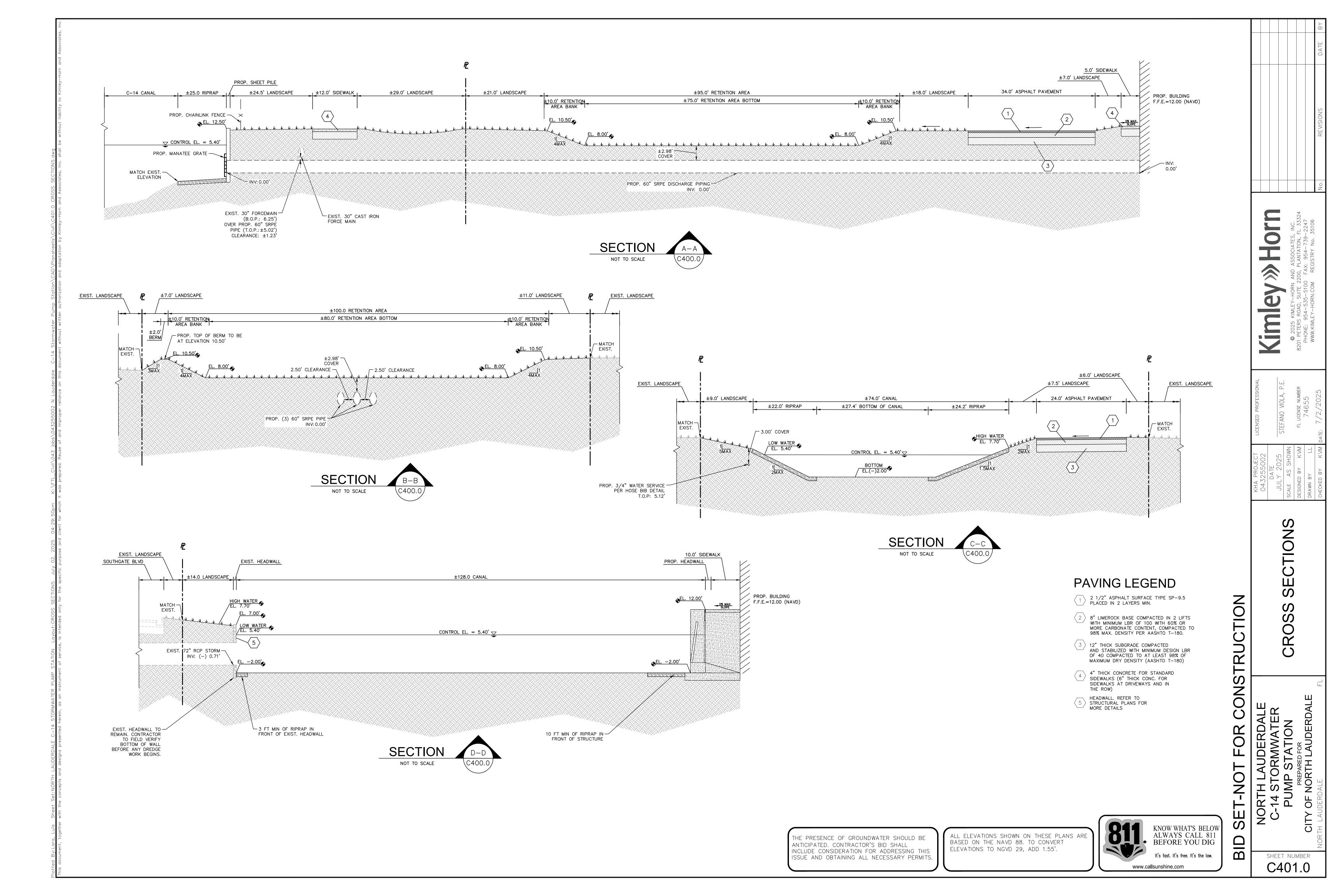
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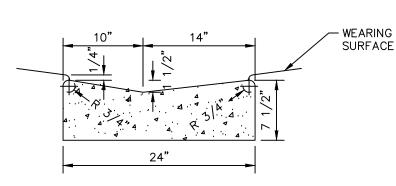


#### PAVING LEGEND

- 1 2 1/2" ASPHALT SURFACE TYPE SP-9.5 OR APPROVED EQUAL
- 8" LIMEROCK BASE COMPACTED IN 1 LIFT WITH MINIMUM LBR OF 100
- 12" THICK SUBGRADE COMPACTED AND STABILIZED WITH MINIMUM DESIGN LBR OF 40 COMPACTED TO AT LEAST 98% OF MAXIMUM DRY DENSITY (AASHTO T-180)

PAVEMENT CROSS—SECTION

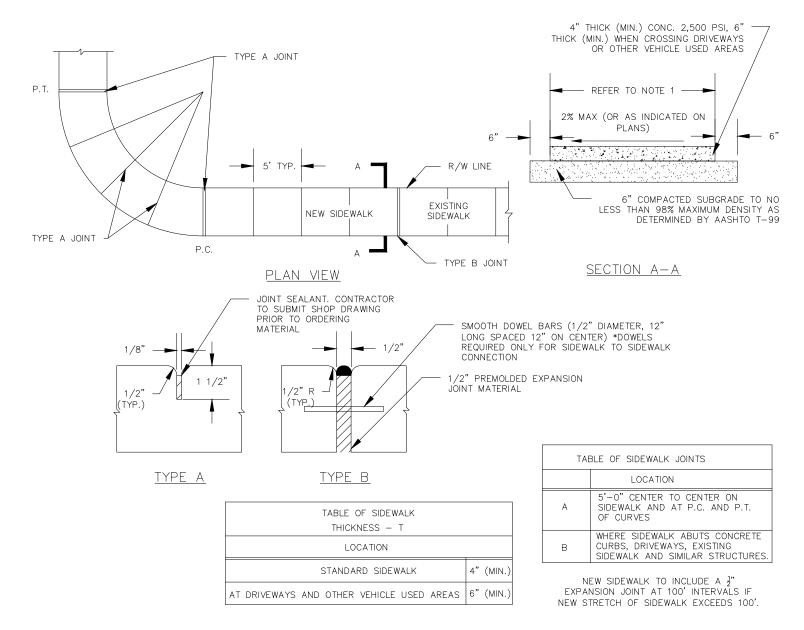
NOT TO SCALE



#### NOTES:

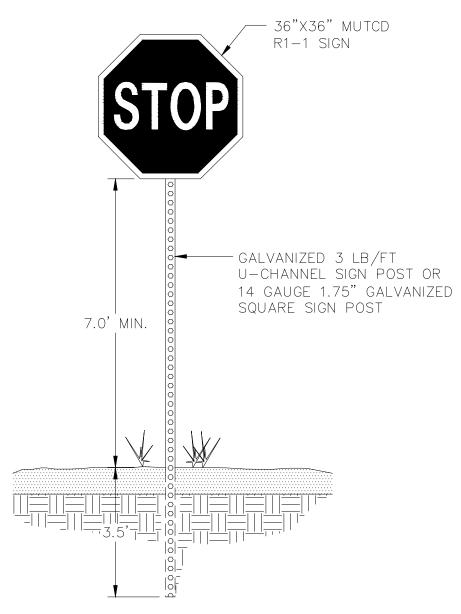
- 1. SUBGRADE SHALL BE COMPACTED TO 95% DENSITY AASHTO
- 2. ROADWAY SUBGRADE SHALL IN ALL CASES EXTEND BELOW
- 3. VALLEY GUTTER SHALL BE CONSTRUCTED IN 50' MAX.
  SECTIONS WITH 1/8" TO 1/4" OPEN EXPANSION JOINT
  BETWEEN EACH SECTION AND CONTRACTION JOINTS AT 10'
- INTERVALS.
  4. CONCRETE SHALL BE 3000 PSI AT 28 DAYS.

VALLEY GUTTER
NOT TO SCALE



SIDEWALK DESIGN STANDARDS NOT TO SCALE

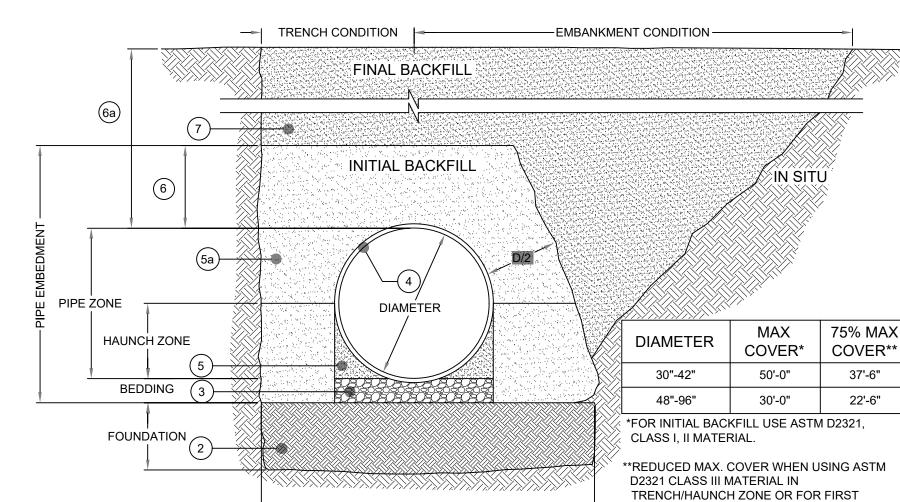
- 1. ALL SIDEWALKS SHALL BE CONSTRUCTED OF TWO THOUSAND FIVE HUNDRED (2,500) PSI CONCRETE NOT LESS THAN FIVE (5) FEET IN WIDTH FOR PUBLIC DEDICATED RIGHTS—OF—WAY AND FOUR (4) FEET FOR PRIVATE RIGHTS—OF—WAY, OR AS SPECIFIED IN EACH TOC DISTRICT, AND HAVING A THICKNESS OF NOT LESS THAN FOUR (4) INCHES, PROVIDED, HOWEVER, THAT ALL SIDEWALKS CROSSING AT VEHICULAR DRIVEWAY SHALL HAVE A THICKNESS OF NOT LESS THAN SIX (6) INCHES.
- CURE ALL CONCRETE WITH CLEAN SAND, PLASTIC MEMBRANE, OR OTHER APPROVED METHOD.
- 3. TOOLED JOINTS TO OCCUR AT INTERVALS EQUAL TO WIDTH OF SIDEWALK 4. SIDEWALK TO HAVE LIGHT BROOM FINISH PERPENDICULAR TO PATH OF TRAVEL.
- 5. CONTRACTOR SHALL REPAIR AND RESTORE ALL AREAS WITHIN THE ABUTTING R/W DISTURBED DURING CONSTRUCTION TO A CONDITION EQUAL TO OR BETTER THAN EXISTING AT NO ADDITIONAL COST TO THE OWNER.
- 6. ALL DEMOLISHED SIDEWALKS AND ADDITIONS ARE TO BE REPLACED WITH CONCRETE SIDEWALK TO MATCH EXISTING AT NO ADDITIONAL COST TO THE OWNER.
  7. ALL DEMOLISHED SIDEWALK RAMPS ARE TO BE REPLACED AS PER ADA STANDARDS AND INCLUDE ADA COMPLIANT DETECTABLE WARNINGS AT NO ADDITIONAL COST TO THE OWNER.
- 8. THE USE OF VISQUEEN (PLASTIC SHEETING) IS REQUIRED TO PROTECT ADJACENT EXISTING CONCRETE STRUCTURES OR AREAS WHEN PERFORMING NEW CONCRETE WORK. THE VISQUEEN SHALL OVERLAP ALL THE EXISTING CONCRETE AREAS BY A MINIMUM OF 2 FEET AND COVER THE AREAS TO BE POURED BY AT LEAST 6 INCHES. AFTER THE CONCRETE IS POURED, THE EXCESS VISQUEEN MATERIAL SHALL BE CAREFULLY REMOVED. ENSURE THAT NO VISQUEEN IS LEFT IN PLACE WHERE IT COULD CAUSE TRIPPING HAZARDS, INTERFERE WITH THE CURING PROCESS, OR OBSTRUCT ANY OTHER ONGOING WORK ACTIVITIES.



NOTES: 1. ONE REQUIRED WHERE SHOWN ON PLANS.

2. SIGNS SHALL BE MOUNTED TO POST WITH GALVANIZED OR CADMIUM PLATED 5/16" DIAMETER STEEL BOLTS, NUTS AND WASHERS.

STOP SIGN AND POST NOT TO SCALE



INITIAL FILL ENVELOPE (1) (1a)

1. MINIMUM TRENCH WIDTH MUST ALLOW ROOM FOR PROPER COMPACTION OF HAUNCH MATERIALS UNDER PIPE. MIN. WIDTH = (1.25 x DIAMETER) + 12" (FOLLOW ASTM D2321)

BACKFILL.

1a.MINIMUM EMBANKMENT WIDTH IS 3 PIPE DIAMETERS BUT NO LESS THAN 2' OUTSIDE OF SPRINGLINE.

- 2. FOUNDATION SHALL BE WELL CONSOLIDATED & STABLE.
- 3. BEDDING MATERIAL SHALL BE A RELATIVELY LOOSE MATERIAL THAT IS ROUGHLY SHAPED TO FIT THE BOTTOM OF THE PIPE, 4" TO 6" IN DEPTH.
- 4. DUROMAXX STEEL REINFORCED (SRPE) PIPE.
- 5. HAUNCH ZONE MATERIAL SHALL BE HAND SHOVELED OR SHOVEL SLICED INTO PLACE TO ALLOW FOR PROPER COMPACTION.
- 5a.INITIAL BACKFILL FOR PIPE EMBEDMENT MATERIAL TO MEET ASTM D2321 CLASS I, II, III OR APPROVED EQUAL, COMPACTED TO 90% STANDARD PROCTOR (NATIVE MATERIAL CAN BE UTILIZED THAT MEETS ASTM D2321 OR APPROVED EQUAL).

  ALL LIFTS PLACED IN CONTROLLED MANNER. TO PREVENT UNEVEN LOADING, IT IS RECOMMENDED THAT LIFTS NOT EXCEED 8" UNCOMPACTED LIFT HEIGHTS.
- 6. INITIAL BACKFILL ABOVE PIPE MAY INCLUDE ROAD BASE MATERIAL AND RIGID PAVEMENT (IF APPLICABLE), MINIMUM COVER STILL APPLIES, OTHERWISE:
  6" MINIMUM FOR PIPE DIAMETERS 30" 60"
- 6a.HEIGHT OF COMPACTED COVER PER DIAMETER FOR CONVENTIONAL HIGHWAY LOADS (DISTANCE MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TOP OF RIGID PAVEMENT):

  12" MINIMUM FOR PIPE DIAMETERS 30" 60"
- 18" MINIMUM FOR PIPE DIAMETER 66" 72" 24" MINIMUM FOR PIPE DIAMETERS 84" - 96"

12" MINIMUM FOR PIPE DIAMETERS 66" - 96"

7. FINAL BACKFILL MATERIAL SELECTION AND COMPACTION REQUIREMENTS PER THE PROJECT PLANS AND SPECIFICATIONS.

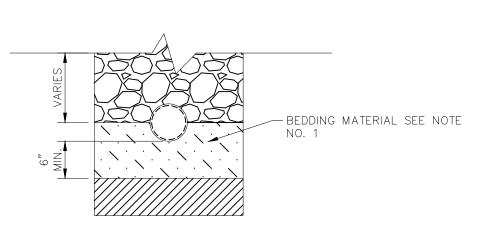
NOTES:

FOR MULTIPLE BARREL INSTALLATION THE RECOMMENDED STANDARD SPACING BETWEEN PARALLEL PIPE RUNS SHALL BE = PIPE DIA./2 OR 3' FOR PIPE DIAMETERS 72" AND LARGER. CONTACT YOUR CONTECH REPRESENTATIVE FOR NONSTANDARD SPACING. BACKFILL REQUIREMENTS SHALL FOLLOW ASTM D2321. IN THE EVENT OF DISCREPANCIES, ASTM D2321 SHALL SUPERCEDE THIS DETAIL.

INSTALLATION/BACKFILL DETAIL

NOT TO SCALE

200-DMX-STD BACKFILL ASTM



NOTES:

1. BEDDING MATERIAL SHALL CONSIST OF SELECT BACKFILL MATERIAL 2"
MAXIMUM PARTICLE SIZE, COMPACTED TO AT LEAST 100% OF MAX.

DENSITY 6" LIETS PER AASHTO SPEC NO. 1—200.

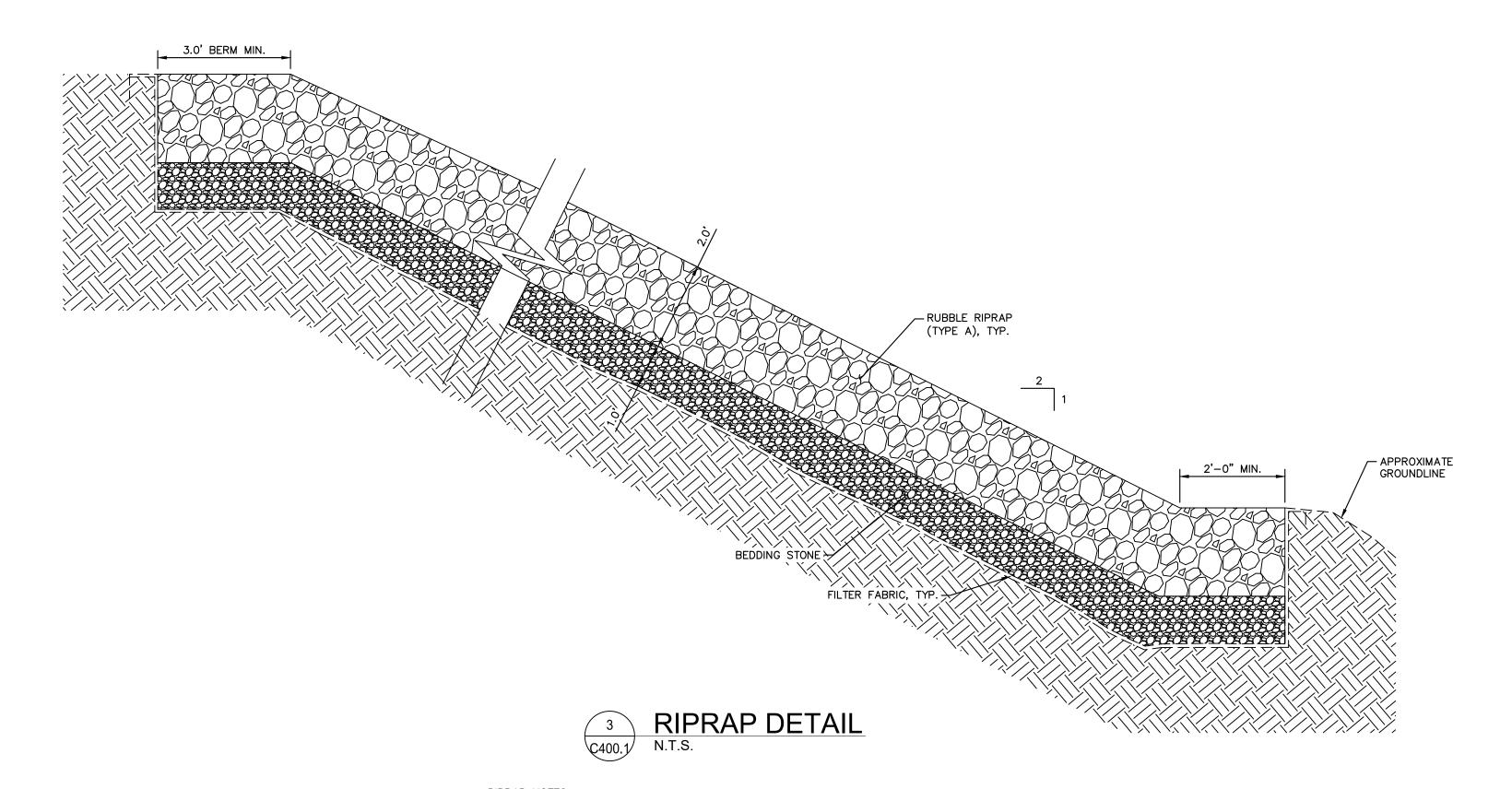
DENSITY, 6" LIFTS, PER AASHTO SPEC. NO. T-99C

2. WHERE REQUIRED, SHEETING AND SHORING SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS.

3. WHERE UNSTABLE SOILS ARE ENCOUNTERED, INCLUDING PEAT, MUCK OR OTHER ORGANIC SOILS, ELASTIC SILT AND CLAYS, A FOUNDATION IS REQUIRED AS DETERMINED BY THE ENGINEER.

TYPICAL PIPE BEDDING DETAIL

NOT TO SCALE



RIPRAP NOTES:

1. CONTRACTOR SHALL EXERCISE EXTREME CAUTION NOT TO DAMAGE THE EXISTING UTILITIES.

2. FILTER FABRIC: ALL FILTER FABRIC SHALL BE TYPE D-2, ACCORDANCE WITH FDOT SPECIFICATION SECTION 985.

SPLICE LENGTH SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 514.

3. SEE SHEETS C300.0 AND C401.0 FOR LIMITS OF RIPRAP

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SITUIDE CONCEPTION

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C-14 STORMV PUMP STA⁻

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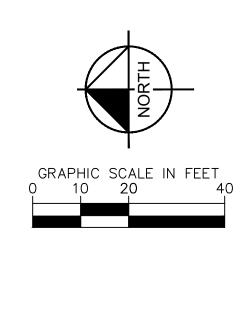
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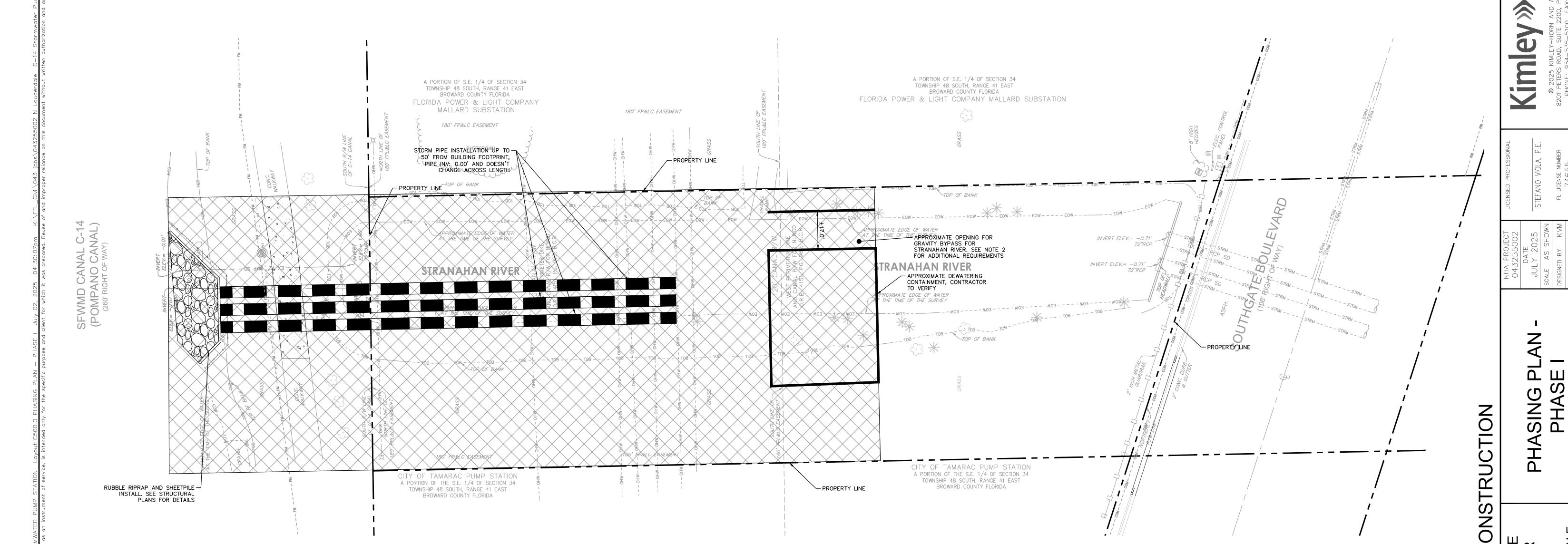
SHEET NUMBER C402.0

LEGEND		
	PROPERTY LINE	
OHW OHW OHW	EXISTING OVERHEAD WIRE	
FM FM FM	EXISTING FORCE MAIN	
	ROAD CENTERLINE	
	PROPOSED ASPHALT PAVEMENT	
4	PROPOSED CONCRETE PAVEMENT	
	PROPOSED DETECTABLE WARNING	
Ψ Ψ Ψ Ψ	PROPOSED SOD	
30303030	PROPOSED RIP RAP	
	PHASING AREA	

RECOMMENDED SEQUENCE OF CONSTRUCTION FOR PHASE I:

- 1. INSTALL SHORING SYSTEM TO THE LIMITS OF THE PROPOSED BUILDING AND ELECTRICAL ROOM TO STABILIZE EXCAVATION AND SURROUNDING AREAS FOR CONSTRUCTION ACTIVITIES..
- 2. INSTALL CONSTRUCTION PHASE GRAVITY BYPASS CHANNEL OR CULVERT ON THE EAST SIDE OF THE SHORED AREA CONNECTING RESULTING RESERVOIR AREAS. ENSURE GRAVITY BYPASS CROSS—SECTIONAL FLOW AREA IS A MINIMUM OF 80 SF AS MEASURED FROM THE CANAL MEAN HIGH WATER ELEVATION. GRAVITY BYPASS MINIMUM FLOW AREA AND GRAVITY FLOW SHALL BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES UNTIL CONSTRUCTION IS COMPLETE.
- 3. EXCAVATED AND BACKFILLED AREAS MUST REMAIN STABLE THROUGH CONSTRUCTION.
- 4. INSTALL DEWATERING SYSTEM FOR THE EXCAVATION AREA IN ACCORDANCE WITH APPROVED PERMIT.
- 5. EXCAVATE WITHIN SHORED LIMITS DOWN TO REQUIRED ELEVATION FOR PUMP STATION FOUNDATION
- 6. INSTALL A PROPOSED 60-INCH SRPE PIPES CONNECTING STRANAHAN RIVER TO C-14 CANAL.
- 7. REMOVE EXISTING 72—INCH CMP PIPES CONNECTING STANAHAN RIVER TO C—14 CANAL. A MINIMUM OF TWO CONNECTION BETWEEN THE STRANAHAN RIVER TO C—14 CANAL SHALL BE MAINTAINED.
- 8. CONSTRUCT HEADWALL AND ASSOCIATED RIPRAP BUBBLE REVETMENT AT C-14 CANAL.
- 9. CONSTRUCT PUMP STATION STRUCTURE PER PLANS.





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BID SET-NOT FOR CO

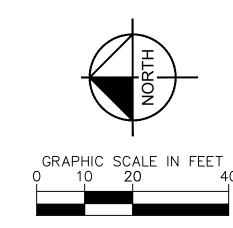
NORTH LAUDERDALE
C-14 STORMWATER
PUMP STATION

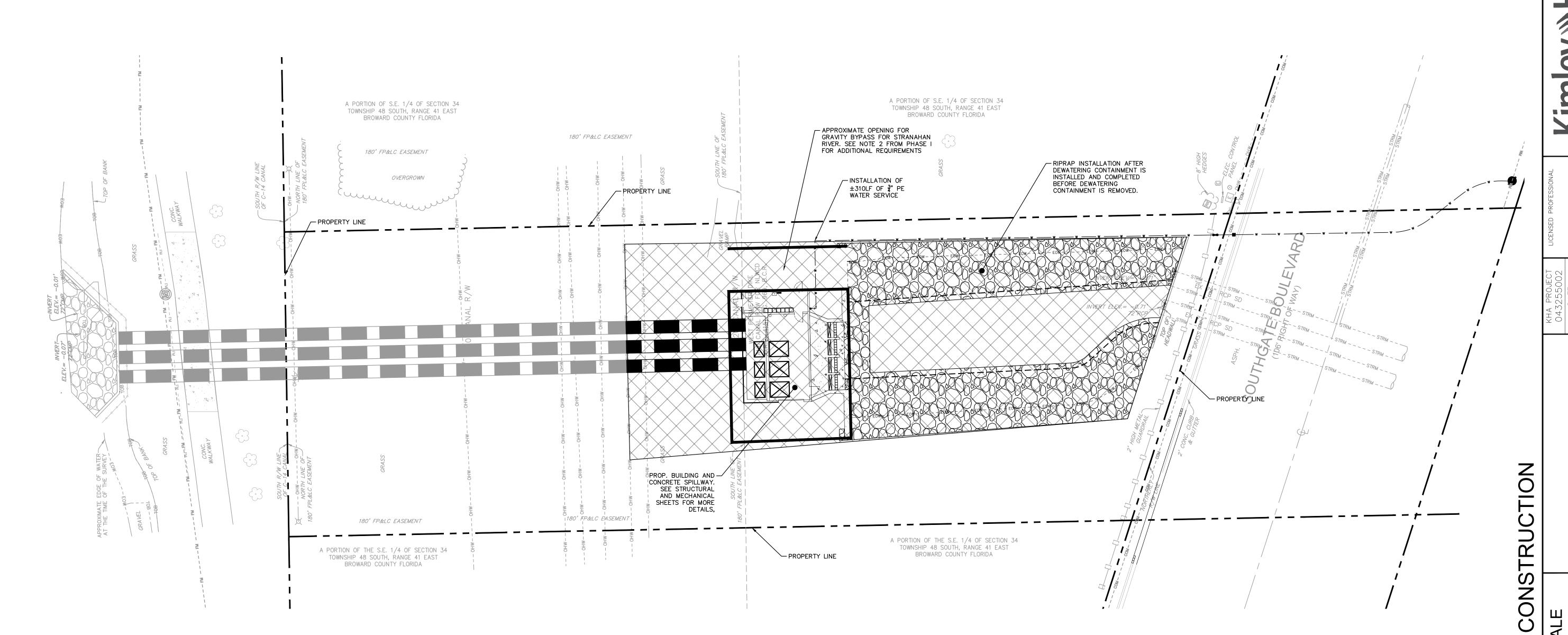
SHEET NUMBER C500.0

LEGEND		
	PROPERTY LINE	
	EXISTING OVERHEAD WIRE	
——————————————————————————————————————	EXISTING FORCE MAIN	
	ROAD CENTERLINE	
	PROPOSED ASPHALT PAVEMENT	
4	PROPOSED CONCRETE PAVEMENT	
	PROPOSED DETECTABLE WARNING	
Ψ Ψ Ψ Ψ	PROPOSED SOD	
	PROPOSED RIP RAP	
	PHASING AREA	

RECOMMENDED SEQUENCE OF CONSTRUCTION FOR PHASE II:

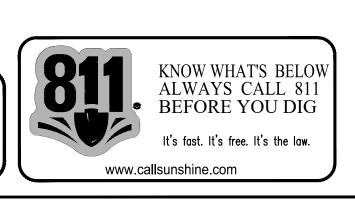
- CONTINUE INSTALLATION OF 60-INCH SRPE PIPES FROM PHASE I TO PUMPSTATION INTAKE/DISCHARGE STRUCTURE. PROPERLY SUPPORT AND BACKFILL PIPE AREA AS INSTALLED.
- 2. COMPLETE PIPE TIE-INS TO PUMP DISCHARGE CHAMBERS.
- 3. MAINTAIN GRAVITY BYPASS SYTEM WITHIN PUMP STATION OPEN TO ALLOW GRAVITY FLOW THROUGH PUMP STATION WET WELL.
- 4. REMOVE TEMPORARY GRAVITY BYPASS ONCE PERMANENT FLOW THROUGH PUMPSTATION AND PIPES IS POSSIBLE.
- 5. REGRADE UPSTREAM RESERVOIR. SHAPE AND GRADE THE UPSTREAM PORTION OF THE STRANAHAN RIVER TO DESIGN CONTOURS. STABILIZE SLOPES, INSTALL RIPRAP PER PLANS.
- 6. DEWATERING CONTAINMENT MUST REMAIN UNTIL THE BUILDING'S ROOF HAS BEEN CONSTRUCTED. REFER TO NOTE 3 ON SHEET S102.





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BID SET-NOT FOR CO

NORTH LAUDERDALE

C-14 STORMWATER

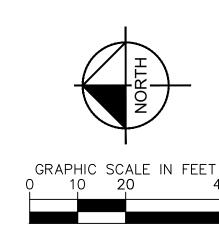
PUMP STATION

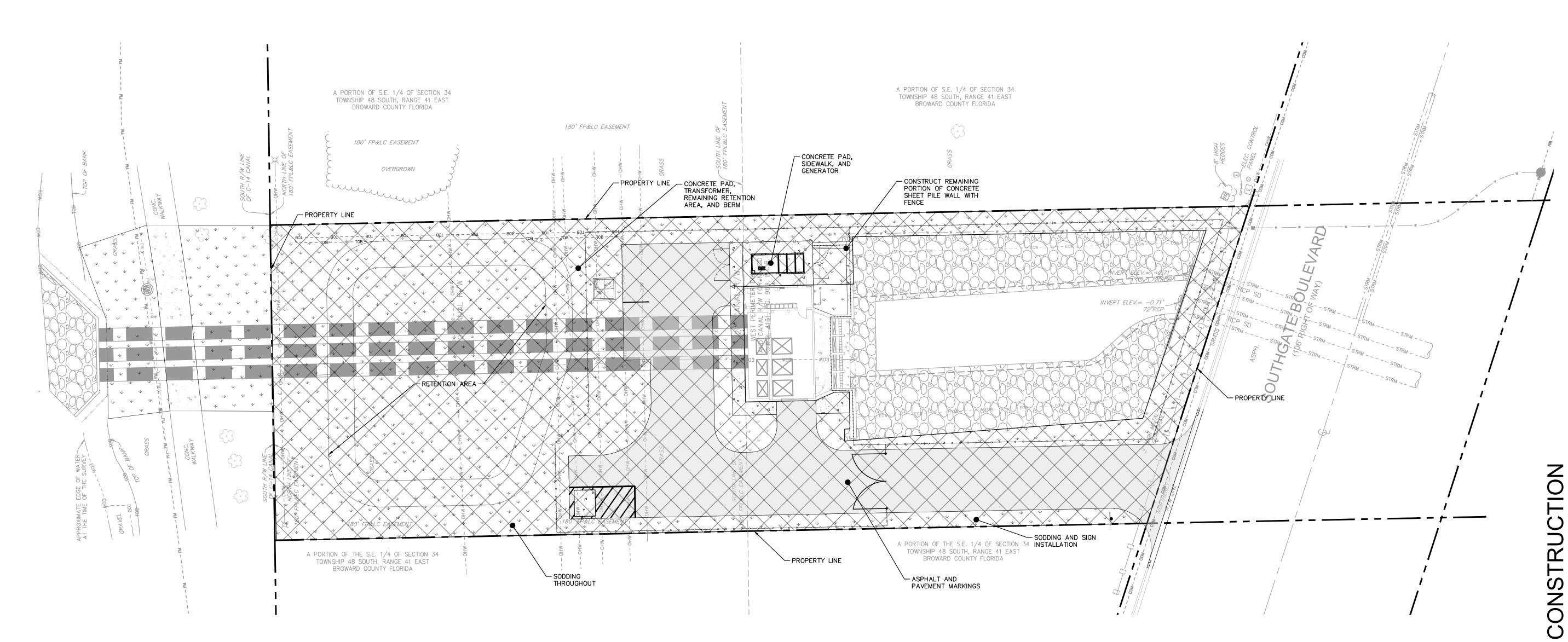
SHEET NUMBER C500.1

LEGEND		
LEGEND		
	PROPERTY LINE	
OHW OHW OHW	EXISTING OVERHEAD WIRE	
FM FM FM FM	EXISTING FORCE MAIN	
<del>_</del>	ROAD CENTERLINE	
	PROPOSED ASPHALT PAVEMENT	
4	PROPOSED CONCRETE PAVEMENT	
	PROPOSED DETECTABLE WARNING	
V V V V	PROPOSED SOD	
8080808	PROPOSED RIP RAP	
	PHASING AREA	

RECOMMENDED SEQUENCE OF CONSTRUCTION FOR PHASE III:

- 1. COMPLETE SITE HARDSCAPE IMPROVEMENTS.
- 2. COMPLETE SITE GRADING AND DRY RETENTION AREA.
- INSTALL A GENERATOR, PUMPS, AND ASSOCIATED ELECTRICAL AND MECHANICAL EQUIPMENT. INCLUDING COMPLETE INSTALLATION OF ELECTRICAL ROOM COMPONENTS, WIRING, AND CONTROLS FOR PUMPS AND GENERATOR.
- 4. TEST AND COMMISSION PUMPS, GENERATOR AND ALL CONTROL SYSTEMS. PERFORM FUNCTIONAL FLOW TESTS TO CONFIRM PROPER OPERATION AND INTEGRATION WITH THE PRIMARY CANAL SYSTEM.
- 5. FINAL INSPECTIONS AND PUNCH LIST INCLUDING COMPLETE FINAL INSPECTIONS WITH REGULATORY AGENCIES,





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BID SET-NOT FOR CO

SHEET NUMBER C500.2