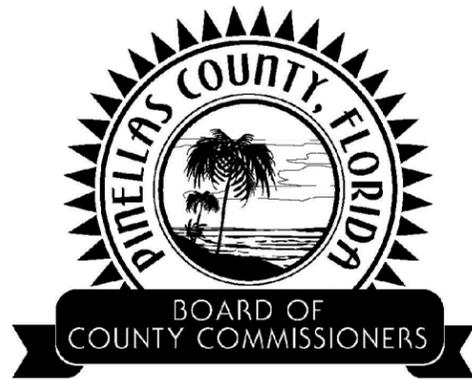


DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE



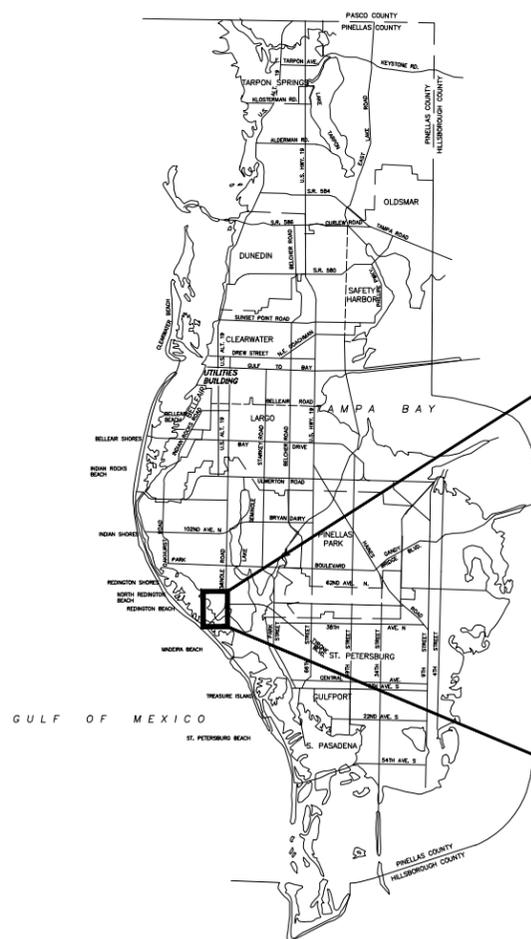
CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST



PID 005267A

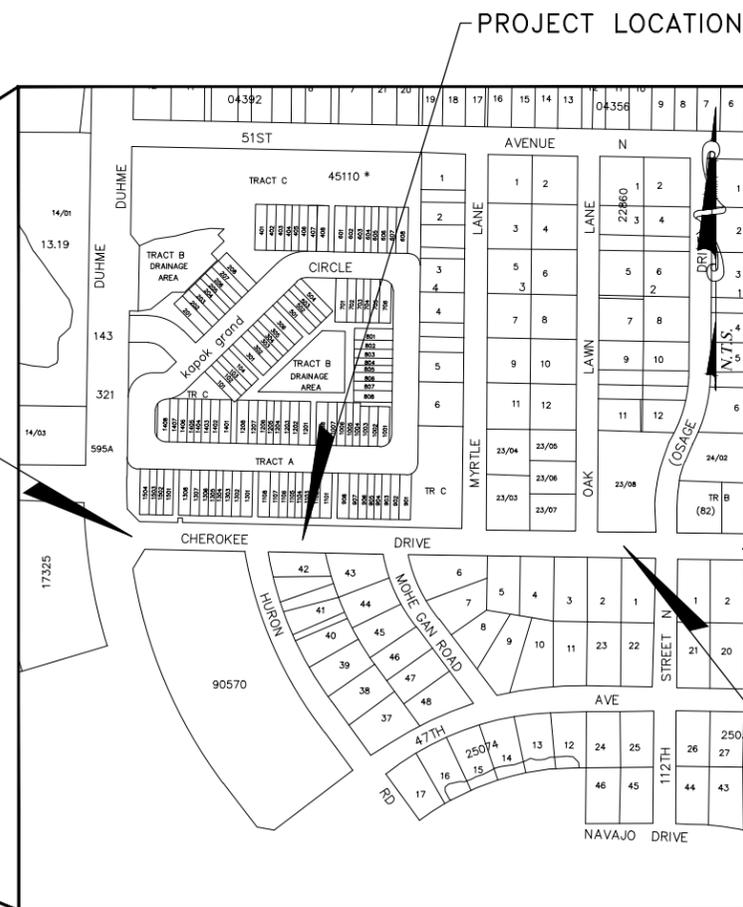
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SAMPLE PLANS



LOCATION MAP

BEGIN PROJECT
STA. 400+26.52



SECTION 03, TOWNSHIP 31 SOUTH, RANGE 15 EAST

KEY MAP
NOT TO SCALE

PROJECT LOCATION

SHEET NO.

SHEET NO.	SHEET TITLE
01	KEY SHEET
02	DRAINAGE MAP
03-05	GENERAL NOTES
06	TYPICAL SECTIONS
07	LAYOUT PLANS
08-13	PLAN & PROFILES
14-22	CROSS SECTIONS
23-25	DRAINAGE STRUCTURES
26	DRIVEWAY SECTIONS
27-28	STORMWATER POLLUTION PREVENTION PLAN
29	EROSION & SEDIMENT CONTROL PLAN
30	SIGNING & PAVEMENT MARKING PLAN
31-32	SIGNALIZATION PLANS
33	UTILITY ADJUSTMENT
01-15	TOPOGRAPHIC SURVEY

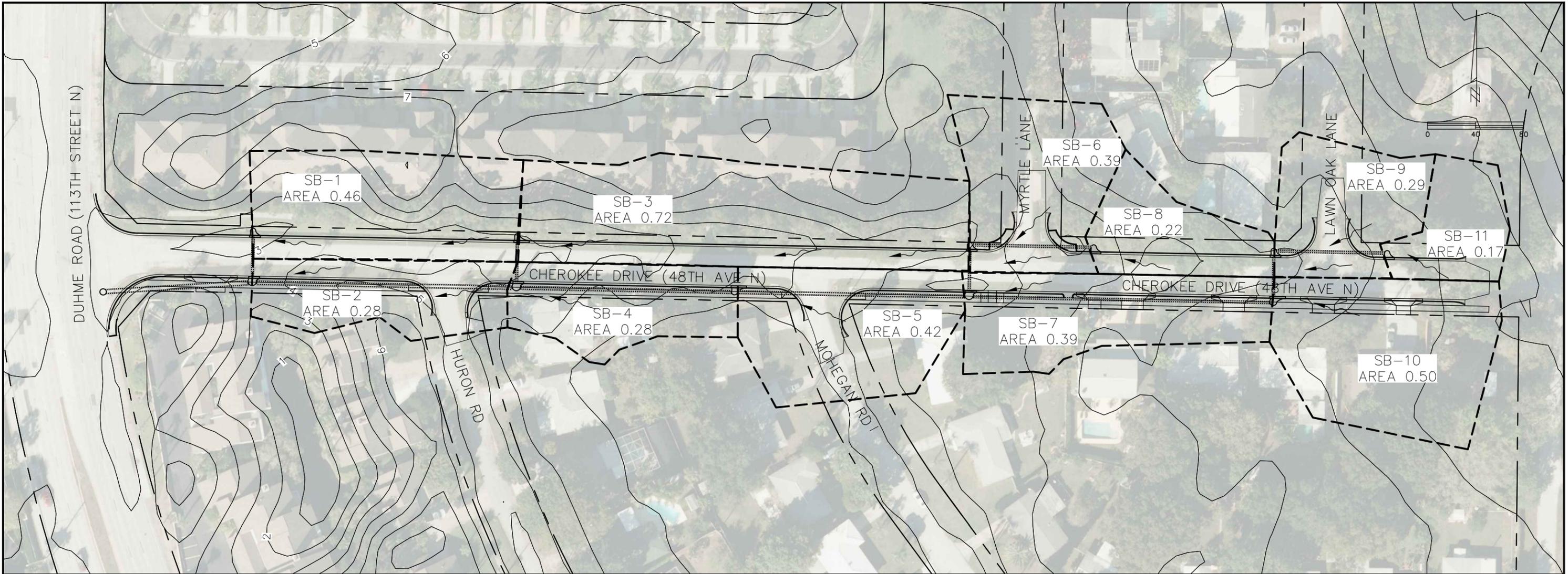
INDEX OF PLANS

END PROJECT
STA. 412+00

NOT FOR CONSTRUCTION

PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE DIVISION OF ENGINEERING AND TECHNICAL SUPPORT 14 SOUTH FORT HARRISON AVENUE CLEARWATER, FLORIDA 33756 PHONE: (727)464-3588	
PROJECT MANAGER: XXXX 727-XXX-XXXX	
SUBMITTED BY:	
XXXX XXXXXX UNIT MANAGER	DATE
RECOMMENDED FOR APPROVAL BY:	
IVAN J. FERNANDEZ, P.E. SECTION MANAGER	DATE
APPROVED BY:	
JORGE M. QUINTAS, P.E. DIRECTOR	DATE
PREPARED BY: PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE DIVISION OF ENGINEERING AND TECHNICAL SUPPORT	
XXXX XXXXXXXX, P.E. No. XXXX-XX ENGINEER OF RECORD	DATE

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BASIN/NODE DATA								
BASIN	AREA(AC)	CN	"C"	To (MIN.)	NODE	DHW ELEVATION (FT.)		
						10-YR	25-YR	100-YR
SB-1	0.46				SB-1			
SB-2	0.28				SB-2			
SB-3	0.72				SB-3			
SB-4	0.28				SB-4			
SB-5	0.42				SB-5			
SB-6	0.39				SB-6			
SB-7	0.39				SB-7			
SB-8	0.22				SB-8			
SB-9	0.29				SB-9			
SB-10	0.50				SB-10			
SB-11	0.17				SB-11			

DESIGNED	XXX		
DRAWN	XXX		
CHECKED	XXX		
REV. NO.	DATE	DESCRIPTION	REV. BY



DIVISION OF ENGINEERING AND TECHNICAL SUPPORT
 14 S. FT. HARRISON AVE., CLEARWATER, FL 33756

PROJECT: CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST

DESCRIPTION: DRAINAGE MAP

APPROVED BY: _____ DATE: _____
XXXX XXXXXXXX, P.E.
 FLA. REG. NO XXXX-XX

DATE: 2013/2014
 PROJECT NO. 005267A
 SHEET: 02 OF 37

RELATED STANDARDS AND SPECIFICATIONS:

DOCUMENT	DESCRIPTION
D-1	FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION AND ALL SUPPLEMENTAL STANDARDS THERETO.
D-2	STATE OF FLORIDA "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS", 2009 ("GREEN BOOK").
D-3	FLORIDA DEPARTMENT OF TRANSPORTATION "DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM" 2012.
D-4	PINELLAS COUNTY DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE (D.E.I.) "STANDARD TECHNICAL SPECIFICATIONS FOR ROADWAY AND RELATED CONSTRUCTION", LATEST EDITION AVAILABLE ON-LINE (http://www.pinellascounty.org/dei/tech-supt.htm).
D-5	PINELLAS COUNTY D.E.I. "STANDARD ENGINEERING DETAILS", LATEST EDITION AVAILABLE ON-LINE (http://www.pinellascounty.org/dei/tech-supt.htm).
D-6	PINELLAS COUNTY "SPECIFICATIONS FOR HOT BITUMINOUS MIXTURES, PLANT METHODS, EQUIPMENT AND CONSTRUCTION METHODS, 2013.
D-7	U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", 2009.
D-8	FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL, 2008.
D-9	STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, LATEST EDITION.

NOTE: PROVISIONS OF DOCUMENT D-6 SHALL SUPERSEDE CORRESPONDING PROVISIONS OF DOCUMENT D-1 WITH RESPECT TO OPERATION AND TESTING.

CLEARING AND GRUBBING

- ALL TREE TRIMMING SHALL BE DIRECTED BY THE CONTRACTOR'S CERTIFIED ARBORIST. THIS WORK SHALL BE INCLUDED AND PAID FOR UNDER THE PAY ITEM FOR THE RELATED ITEM.
- THE CONTRACTOR SHALL ONLY REMOVE TREES DESIGNATED FOR REMOVAL IN THE PLAN, OR AS DIRECTED BY THE ENGINEER. CONTRACTOR IS TO OBTAIN THE TREE REMOVAL PERMIT FROM PINELLAS COUNTY DEI TRANSPORTATION & STORMWATER - NATURAL RESOURCES. TREE REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CLEARING AND GRUBBING, UNLESS SEPARATE PAY ITEMS ARE PROVIDED.
- WHERE EXCAVATION IS REQUIRED FOR CONSTRUCTION OF SIDEWALK, STORM STRUCTURES, AND PIPES, THE STUMPS, AND ROOTS, ETC., SHALL BE REMOVED COMPLETELY FROM THE SIDEWALK AREA. ALL STUMPS WITHIN THE PROJECT LIMITS SHALL BE REMOVED COMPLETELY AND REPLACED WITH COMPACTED BACKFILL BEFORE THE AREA IS FILLED. TREE ROOTS IN AREA OF PROPOSED SIDEWALK, RAMP, OR DRIVEWAY REPLACEMENT SHALL BE GROUND OUT TO A DEPTH OF 6" BELOW BOTTOM OF NEW SIDEWALK OR DRIVEWAY. ALL PRUNED ROOT DEBRIS SHALL BE REMOVED FROM THE SUB-BASE MATERIAL PRIOR TO POURING CONCRETE, ASPHALT, OR APPLICATION OF OTHER SPECIFIED MATERIALS. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CLEARING AND GRUBBING.
- ALL STUMPS, ROOTS, AND OTHER DEBRIS PROJECTING THROUGH OR APPEARING ON THE SURFACE OF THE GROUND SHALL BE REMOVED TO A MINIMUM DEPTH OF 1-FOOT BELOW THE COMPLETED SURFACE. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CLEARING AND GRUBBING.
- THE CONTRACTOR SHALL REMOVE ALL DRIVEWAYS, SIDEWALKS, CURBS, AND ALL ABANDONED UTILITY LINES, PIPES, STRUCTURES, FLUMES AND OTHER SUBTERRANEAN OBJECTS TO A MINIMUM DEPTH OF FOUR (4) FEET BELOW GRADE, OR AS OTHERWISE DIRECTED BY THE ENGINEER. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CLEARING AND GRUBBING.
- ALL MATERIALS NOT CLAIMED BY THE COUNTY SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY THE CONTRACTOR. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CLEARING AND GRUBBING.
- THE CONTRACTOR SHALL VERIFY THE PROPER WORKING ORDER OF SPRINKLER SYSTEMS AFFECTED BY CONSTRUCTION, BOTH PRIOR TO AND AFTER CONSTRUCTION. THE CONTRACTOR WILL CAREFULLY REMOVE IN THEIR ENTIRETY AND CAP, WITHOUT DAMAGE, ANY EXISTING SPRINKLER SYSTEM LOCATED WITHIN THE RIGHT-OF-WAY, IN THE AREA TO BE CLEARED AND GRUBBED, EXCAVATED, OR TRENCHED IN PREPARATION FOR CONSTRUCTION ACTIVITIES. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CLEARING AND GRUBBING. THIS WORK SHALL BE COORDINATED AND APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL REPAIR ALL SPRINKLER SYSTEMS LOCATED ON PRIVATE PROPERTY, AND OUTSIDE THE LIMITS OF CONSTRUCTION, WHICH MAY BECOME DAMAGED AS A RESULT OF CONSTRUCTION OF THIS PROJECT. SUCH REPAIR MUST OCCUR IN A TIMELY MANNER, BUT IN ALL CASES PRIOR TO FINAL PUNCH LIST INSPECTION OF THE PROJECT. THE COST OF THIS REPAIR IS AT THE EXPENSE OF THE CONTRACTOR.
- MAILBOXES SHALL BE RELOCATED IN ACCORDANCE WITH FDOT INDEX 532. RELOCATION OF MAILBOXES, AS REQUIRED OR WHERE CALLED OUT ON THE PLANS, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CLEARING AND GRUBBING, UNLESS THERE IS A SEPARATE PAY ITEM FOR RELOCATION OF MAILBOXES.
- NO STOCK PILING OF MATERIAL IN ROADWAY OR ON SIDEWALK SHALL BE PERMITTED. ALL EXTRA DIRT AND/OR DEBRIS SHALL BE REMOVED DAILY AS A PART OF THE DAILY CLEAN UP. THE ROADWAY AND SIDEWALKS SHALL BE SWEEPED DAILY. ALL COSTS FOR DAILY CLEAN UP AND SWEEPING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CLEARING AND GRUBBING.
- ALL ABANDONED PIPES AND STRUCTURES WITHIN LIMITS OF CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR, UNLESS OTHERWISE NOTED ON THE PLANS. THE COST SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CLEARING AND GRUBBING.

- ALL EXISTING PIPES THAT ARE TO REMAIN IN SERVICE WITHIN THE RIGHT-OF-WAY CORRIDOR ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED IN THE PLANS.

DRAINAGE

- POLYVINYL CHLORIDE PIPE, (P.V.C.) 6" TO 36", MUST CONFORM TO A.S.T.M. F 949.
- STATION LOCATIONS FOR STORM DRAIN INLETS AND MANHOLES REFERENCE THE CENTER OF THE SPECIFIED STRUCTURE BOTTOM. FOR PIPES WITH MITERED END SECTIONS, THE PROPOSED LENGTHS SHOWN ON THE PLANS INCLUDE THE LENGTH OF THE MITERED END SECTION. PAYMENT FOR PIPE SHALL NOT INCLUDE THE LENGTH OF THE MITERED END SECTION, AS SPECIFIED BY DIMENSION "F" AS SHOWN IN FDOT INDEX 272 AND 273. PAYMENT SHALL BE FROM INSIDE STRUCTURE WALL TO INSIDE STRUCTURE WALL, INCLUDING STRAIGHT OR U TYPE WALLS. ANY EXTRA PIPE LENGTH LISTED SHALL BE CONSIDERED CONTINGENT.
- CONFLICTS OF WATER OR SANITARY SEWER FORCE MAIN LINES WITH SANITARY GRAVITY LINES OR STORM SEWER SYSTEMS ARE TO BE RESOLVED BY ADJUSTING WATER OR FORCE MAIN LINES AS NECESSARY.
- WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE JOINT DEFLECTION SHALL NOT EXCEED 80% OF THE MAXIMUM VALUES SPECIFIED IN AWWA C-600-82 OR 80% OF THE PIPE MANUFACTURER'S MAXIMUM RECOMMENDED DEFLECTION, WHICHEVER IS MORE STRINGENT.
- THE ITEM FOR RIP RAP RUBBLE SHALL USE NATURAL BROKEN STONE AS REQUIRED IN PINELLAS COUNTY DEI "STANDARD TECHNICAL SPECIFICATIONS FOR ROADWAY AND RELATED CONSTRUCTION" SECTION 530-2000. THE MINIMUM THICKNESS SHALL BE 18" UNLESS OTHERWISE SHOWN IN THE PLANS. BROKEN CONCRETE SHALL NOT BE ACCEPTED OR USED.
- UNDERDRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH PINELLAS COUNTY STANDARD ENGINEERING DETAILS, INDEXES 1281, 1282, AND 1290.
- UNDERDRAIN CLEAN-OUT PLUGS SHALL BE INSTALLED IN THE UPSTREAM ENDS OF UNDERDRAINS WHEREVER THE UPSTREAM END IS CONNECTED TO A STORM WATER INLET STRUCTURE OR JUNCTION BOX. UNDERDRAIN PLUGS SHALL BE "T-GRIPPER MECHANICAL PLUGS WITHOUT BYPASS" OR APPROVED EQUAL, AND SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE UNDERDRAIN PIPE.
- ALL STORM SEWER INLET, MANHOLE AND JUNCTION BOX COVER LIDS SHALL BE FABRICATED AND STAMPED AS DETAILED IN THE PINELLAS COUNTY STANDARD ENGINEERING DETAILS, INDEX 1250, UNLESS SPECIFIED OTHERWISE IN THE PLANS.
- ALL EXISTING AND PROPOSED UTILITY AND STORM SEWER STRUCTURES WHOSE TOPS WILL BE EXPOSED WITHIN ANY SIDEWALK OR PAVED AREA SHALL BE U.S.F. TYPE X OR EQUAL. COVERS OUTSIDE SIDEWALK OR PAVED AREA SHALL BE U.S.F. TYPE BJ OR EQUAL.
- IN ACCORDANCE WITH FDOT INDEX 205 AND FDOT STANDARD SPECIFICATION - SECTION 449, ALL PROPOSED STORM DRAIN PIPES WILL BE REINFORCED CONCRETE (RCP) CLASS III UNLESS OTHERWISE SPECIFIED.
- ALL GRATES FOR DITCH BOTTOM INLETS ARE TO BE HOT DIPPED GALVANIZED STEEL, AFTER FABRICATION, PER FDOT INDEX 232 AND 233, AND SHALL BE SECURED TO THE STRUCTURES PER PINELLAS COUNTY STANDARD CONSTRUCTION DETAILS, INDEX 1295. ALL INLET STRUCTURES WITHIN RIGHT-OF-WAY OR IN AREAS SUBJECT TO VEHICULAR TRAFFIC SHALL BE DESIGNED FOR H-20 LOADING.
- ALL DITCH BOTTOM INLETS SHALL BE MODIFIED WITH "THIN WALL PRECAST OPTION" AS SHOWN IN FDOT INDEX 201, UNLESS FIELD CONDITIONS REQUIRE CAST IN PLACE STRUCTURES.
- THE COST ASSOCIATED WITH THE USE OF CONCRETE/CLOTH PIPE JACKETS/COLLARS AS PER LATEST FDOT SPECIFICATION SHALL BE INCIDENTAL TO THE WORK BEING PERFORMED AND SHALL NOT BE PAID FOR SEPARATELY.

- DIMENSION FOR ALL DRAINAGE STRUCTURES (I.E., INLETS, MANHOLES, JUNCTION BOXES, ECT.) ARE PROVIDED IN THE PLANS. THE CONTRACTOR MAY, AT NO ADDITIONAL COST TO THE COUNTY, CONSTRUCT DRAINAGE STRUCTURES WITH LARGER DIMENSIONS THAN THOSE SHOWN IN THE PLANS, IF THE LARGER DIMENSIONS DO NOT RESULT IN A CONFLICT WITH UTILITIES, OTHER CONSTRUCTION ITEMS OF ACTIVITIES AND IF THE CONTRACTOR HAS THE DRAINAGE STRUCTURE DESIGN (WITH LARGER DIMENSIONS) CERTIFIED BY A PROFESSIONAL STRUCTURAL ENGINEER (REGISTERED IN THE STATE OF FLORIDA). IF THE LARGER DIMENSIONS CREATE A CONFLICT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMEDY, AT NO ADDITIONAL COST TO THE COUNTY. APPROVAL OF THE SHOP DRAWINGS (FOR THE LARGER DRAINAGE STRUCTURES) BY THE ENGINEER OF RECORD OR COUNTY SHALL NOT RELIEVE THE CONTRACTOR FROM THEIR OBLIGATION TO REMEDY CONFLICTS AT THE CONTRACTOR'S EXPENSE AND AT NO ADDITIONAL COST TO THE COUNTY.

EXCAVATION AND GRADING

- ALL SUB-BASES SHALL BE GOOD, CLEAN, ACCEPTABLE MATERIAL COMPACTED TO MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99, IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- THE CONTRACTOR SHALL STABILIZE ALL DISTURBED AREAS IMMEDIATELY AFTER FINAL GRADE HAS BEEN ATTAINED IN ACCORDANCE WITH THE CURRENT FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL, 2008.
- ALL SLOPES STEEPER THAN 3:1 SHALL INCLUDE SOD STAPLING OR STAKING. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR SODDING (SY).
- FINAL GROUND COVER FOR ALL AREAS OF EXPOSED EARTH RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE SODDED AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. SEEDING SHALL NOT BE USED AS FINAL GROUND COVER EXCEPT WHERE SPECIFICALLY SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL BACKFILL AREAS TO BE SODDED WITH CLEAN FILL TO MAINTAIN PROPER GRADE OF PLANTING AREAS, AND THE SOD SHALL BE PROPERLY CUT-IN AND TAMPED, THE COST OF WHICH IS INCLUDED IN THE UNIT PRICE BID FOR SODDING (SY).
- SOD STABILIZATION SHALL OCCUR IMMEDIATELY AFTER ACHIEVING FINAL GRADE. ALL SLOPES STEEPER THAN 3:1 SHALL INCLUDE SOD STAPLING OR STAKING, THE COST OF WHICH IS INCLUDED IN THE UNIT PRICE BID FOR SODDING (SY).
- THE CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING, AND BRACING REQUIRED TO PROTECT ADJACENT STRUCTURES OR TO MINIMIZE TRENCH WIDTH. THE COST OF ALL SHEETING, SHORING, AND BRACING REQUIRED SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE ITEM OF WORK FOR WHICH SHEETING, SHORING, AND BRACING IS REQUIRED.
- UNSUITABLE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF-SITE, AT A SUITABLE SITE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL PERMITS AND PERMITTING FEES REQUIRED FOR THE TRANSPORT AND DISPOSAL OF UNSUITABLE MATERIAL.
- ALL EXCESS EXCAVATED SUITABLE AND UNSUITABLE MATERIAL NOT CLAIMED BY THE COUNTY SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY THE CONTRACTOR. THE COST FOR DISPOSAL, HAULING, AND OTHER COSTS INCURRED SHALL BE INCLUDED IN THE UNIT PRICE BID FOR GRADING (LUMP SUM).
- BORROW MATERIAL REQUIRED FOR CONSTRUCTION SHALL BE PROVIDED BY THE CONTRACTOR FROM BORROW AREAS PROVIDED BY THE CONTRACTOR.
- EXCEPT FOR THE COST OF EXCAVATING UNSUITABLE MATERIAL AND THE COST OF FURNISHING, PLACING, AND COMPACTING FILL TO REPLACE UNSUITABLE MATERIAL, THE CONTRACT PRICE FOR GRADING SHALL INCLUDE THE COST OF ALL EMBANKMENT AND EXCAVATION, GRADED CONNECTIONS, FINAL DRESSING, AND SIMILAR EARTHWORK OPERATIONS REQUIRED FOR THE COMPLETION OF THE PROJECT, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

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DESIGNED	XXX	 PINELLAS COUNTY DIVISION OF ENGINEERING AND TECHNICAL SUPPORT 14 S. FT. HARRISON AVE., CLEARWATER, FL 33756	PROJECT:	CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST	DESCRIPTION:	GENERAL NOTES	APPROVED BY:	DATE:	2013/2014	
DRAWN	XXX								PROJECT NO.	005267A
CHECKED	XXX								SHEET:	03 OF 37
REV. NO.	DATE	DESCRIPTION	REV. BY					XXXX XXXXXXXX, P.E. FLA. REG. NO XXXX-XX	DATE	

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38. ANY GRADING OR CONSTRUCTION DEPICTED ON THE PLANS BEYOND THE RIGHT-OF-WAY AND WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PERFORMED ONLY AFTER RECEIPT OF PERMISSION FROM THE PROPERTY OWNER THROUGH A RIGHT OF ENTRY AGREEMENT AND/OR A SIDEWALK, UTILITY, OR DRAINAGE EASEMENT. ONLY AFTER NOTIFICATION BY THE ENGINEER THAT THE AGREEMENT/EASEMENT HAS BEEN OBTAINED SHALL THE CONTRACTOR CONSTRUCT WITHIN THIS AREA. SHOULD THE ENGINEER FAIL TO OBTAIN THE PROPER AUTHORIZATION THE CONTRACTOR SHALL MODIFY THE CONSTRUCTION LIMITS, AS DIRECTED BY THE ENGINEER, IN ORDER TO KEEP WITHIN THE EXISTING RIGHT-OF-WAY.

GENERAL CONSTRUCTION & SURVEY

- 39. ALL STATIONS AND OFFSETS REFER TO CONSTRUCTION REFERENCE LINE, UNLESS OTHERWISE NOTED.
- 40. ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.
- 41. THE CONTRACTOR SHALL FIELD VERIFY ANY AND ALL EXISTING CONDITIONS PRIOR TO COMMENCING CONSTRUCTION, AND SHALL NOTIFY THE ENGINEER PROMPTLY OF ANY DISCREPANCIES.
- 42. THE CONSTRUCTION LENGTHS INDICATED IN THESE PLANS ARE APPROXIMATE. ACTUAL LIMITS MAY BE SET IN THE FIELD AS DIRECTED BY THE ENGINEER.
- 43. ABBREVIATIONS USED IN PINELLAS COUNTY SURVEYS AND D.E.I. PLANS SHALL BE IN ACCORDANCE WITH FDOT INDEX 001, UNLESS OTHERWISE NOTED.
- 44. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME THESE DRAWINGS WERE PREPARED, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE INDICATED LOCATION OF UNDERGROUND UTILITIES, STRUCTURES, AND FACILITIES IS APPROXIMATE, AND REFLECTS THE BEST INFORMATION AVAILABLE FROM SURVEYS AND RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT SIZE, LOCATION, DEPTH, HEIGHT, ELEVATION, DIMENSION, AND EXTENT OF ALL UNDERGROUND AND OVERHEAD FACILITIES AND OTHER FEATURES AFFECTING HIS WORK PRIOR TO PROCEEDING WITH ANY CONSTRUCTION ACTIVITY THAT MAY AFFECT SUCH FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY FAILURE TO COMPLY WITH THESE INSTRUCTIONS.
- 45. THE CONTRACTOR MUST COORDINATE THE RELOCATION OF ALL WATER, SANITARY SEWER, OR OTHER UTILITIES WITH THE OWNER.
- 46. THE CONTRACTOR MUST USE EXTREME CARE IN THE INSTALLATION OF STRUCTURES AND PIPING, DUE TO THE CLOSE PROXIMITY OF OVERHEAD AND UNDERGROUND POWER LINES.
- 47. THE LOCATION AND ELEVATION OF THE PROPOSED AMENITIES, AS SHOWN ON THE PLANS, IS FOR GRAPHICAL ORIENTATION PURPOSES ONLY. ACTUAL LOCATION OF THE PROPOSED AMENITIES IS TO BE DETERMINED IN THE FIELD UTILIZING THE MINIMUM STANDARDS DEPICTED ON THE PLANS AND THE EXISTING TOPOGRAPHY AND PHYSICAL FEATURES FOUND IN THE FIELD. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE PINELLAS COUNTY INSPECTOR/ENGINEER OF THE ACTUAL LAYOUT PROPOSED PRIOR TO ORDERING OF MATERIALS AND/OR COMMENCEMENT OF WORK.
- 48. SEPARATE PAYMENT SHALL BE MADE ONLY FOR THE ITEMS OF WORK LISTED AND IDENTIFIED BY THE APPROPRIATE PAY ITEM ON THE BID FORM. THE COST OF ANY RELATED WORK NOT SPECIFICALLY IDENTIFIED, BUT WHICH IS REQUIRED FOR SATISFACTORY COMPLETION OF THE WORK, SHALL BE CONSIDERED TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPROPRIATE BID ITEM.
- 49. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT ALL CONSTRUCTION ACTIVITIES SHALL CONFORM TO PINELLAS COUNTY CODE, CHAPTER 58, ENVIRONMENT, ARTICLE XII - NOISE, SECTION 58-441 THROUGH 58-454.

- 50. THE CONTRACTOR SHALL HAVE A FOREMAN, OR RESPONSIBLE PARTY, ON SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. ALL WORKERS ON THE JOB SITE WILL BE COURTEOUS TO THE PUBLIC AT ALL TIMES, AND SHALL REFER ANY QUESTIONS OR CONCERNS TO THE CONTRACTOR'S FOREMAN OR THE COUNTY INSPECTOR. THE FOREMAN SHALL SPEAK AND UNDERSTAND ENGLISH AND SHALL BE AVAILABLE AT ALL TIMES FOR TIMELY RESOLUTION OF PROJECT RELATED ISSUES. THE CONTRACTOR MUST PROVIDE A 24 HOUR EMERGENCY PHONE NUMBER TO THE COUNTY INSPECTOR.
- 51. THE CONTRACTOR IS RESPONSIBLE TO PRACTICE AND ENFORCE ALL LOCAL AND STATE JOB AND CONSTRUCTION SAFETY LAWS AND REGULATIONS, ESPECIALLY OSHA, WITH REGARDS TO CONSTRUCTION PRACTICES AND PROCEDURES. ANY VIOLATION OF THESE LAWS WILL BE REPORTED TO THE AUTHORITIES.

PAVING, PAVEMENT MARKINGS, AND SIGNS

- 52. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED IN THE PLANS, OR AS DIRECTED BY THE ENGINEER. SIGN LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT, AS DIRECTED BY THE ENGINEER.
- 53. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED OR RELOCATED DURING CONSTRUCTION SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION. COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR RELOCATE EXISTING SIGN, SINGLE POST (ASSEMBLY). MULTIPLE SIGNS ON A SINGLE POST SHALL BE PAID FOR AS ONE ASSEMBLY.
- 54. CAUTION SHOULD BE EXERCISED WHILE RELOCATING EXISTING SIGNS SO AS TO PREVENT DAMAGE TO THE SIGNS. SIGNS DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER, SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- 55. ALL SIGNS SHALL BE INSTALLED ACCORDING TO THE APPROPRIATE PINELLAS COUNTY DEI STANDARD ENGINEERING DETAILS, PINELLAS COUNTY DEI STANDARD TECHNICAL SPECIFICATIONS FOR ROADWAY AND RELATED CONSTRUCTION, INCLUDING UPDATES, FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX AND THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 700.
- 56. THE CONTRACTOR SHALL DELIVER AND DEPOSIT NEATLY, ANY TRAFFIC SIGN OR SIGNAL EQUIPMENT REMOVED AS A RESULT OF CONSTRUCTION ACTIVITIES AT THE FOLLOWING DESIGNATED SPOIL AREA. DELIVERIES OF SURPLUS MATERIAL SHALL BE MONDAY THROUGH THURSDAY BETWEEN 7:30AM AND 4:30PM. ALL COSTS APPLICABLE SHALL BE INCLUDED IN THE UNIT PRICE BIDS OF THE APPROPRIATE PAY ITEMS.

DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
TRAFFIC-SIGN SHOP MAIN. BLDG. - (CENTRAL YARD)
22211 US HWY. 19 NORTH, BLDG. 5
CLEARWATER, FL 33765
- 57. THE CONTRACTOR SHALL INSTALL TEMPORARY PAINTED LANE STRIPING. PAVEMENT MARKINGS SHALL BE PLACED AS SHOWN ON THE PLANS, AND THE APPROPRIATE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX.
- 58. PAVEMENT MARKINGS ON NEW ASPHALT SHALL BE PAINT, AND NOT THERMOPLASTIC.
- 59. LETTERING ON GROUND-MOUNTED STREET NAME SIGNS SHALL BE 6" ON ALL SERIES.
- 60. REFER TO FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX 17352 FOR RETRO-REFLECTIVE PAVEMENT MARKER PLACEMENT DETAILS.
- 61. ASPHALT USED FOR PATCHING OF ROADWAY FOR INSTALLATION OF DRIVEWAYS, SIDEWALK RAMPS AND CURB SHALL BE INCIDENTAL TO THE COST OF THE ITEM BEING INSTALLED.
- 62. ALL PROPOSED ASPHALT PATCH AND SURFACING OVERLAID ON EXISTING PAVEMENT SHALL BE FEATHERED SMOOTHLY INTO THE EXISTING PAVEMENT, AND MAY REQUIRE THE NEED FOR A MILLED BUTT-JOINT AS DIRECTED BY THE ENGINEER.

- 63. EXISTING ROADWAY MATERIALS SUCH AS SHELL, MARL, OR LIMEROCK SUITABLE FOR SUCH MAY BE UTILIZED IN THE PREPARATION OF STABILIZED SUBGRADE AS DIRECTED BY THE ENGINEER.
- 64. EXISTING PAVEMENT SHALL BE SAW-CUT IN PROPOSED PATCH AREAS TO A DEPTH REQUIRED FOR THE PROPOSED PAVEMENT AS SHOWN ON THE PLANS. THE COST SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ASPHALTIC CONCRETE.
- 65. NO SURFACING SHALL BE APPLIED TO ANY MANHOLE COVERS, FRAMES, VALVE BOXES, GAS DROPS, ETC.
- 66. UNLESS OTHERWISE STATED IN THE SPECIFICATIONS OR COVERED UNDER A SEPARATE ITEM, ALL EXCESS MILLINGS SHALL REMAIN THE PROPERTY OF CONTRACTOR AND SHALL BE DISPOSED OF AT AN APPROVED SITE PROVIDED BY CONTRACTOR.

OR

ALL EXCESS MILLING RESULTING FROM CONSTRUCTION ACTIVITIES SHALL REMAIN THE PROPERTY OF PINELLAS COUNTY AND SHALL BE DELIVERED TO THE PINELLAS COUNTY STOCKPILE YARD BETWEEN 7:30AM AND 4:30PM MONDAY THRU THURSDAY, EXCEPT FOR COUNTY DESIGNATED HOLIDAYS. THE COST FOR TRANSPORTING AND STOCKPILING OF EXCESS MILLINGS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR MILLINGS, PAY ITEM NO. 380-3505

PINELLAS COUNTY STOCKPILE YARD
12625 140TH STREET NORTH
CLEARWATER, FLORIDA 33762

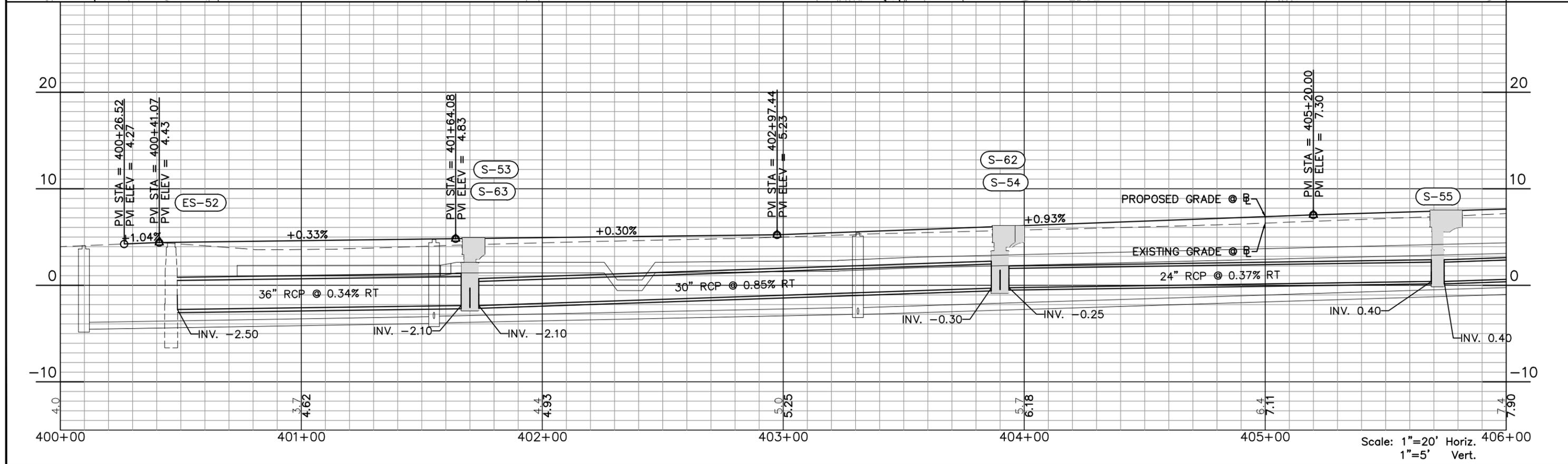
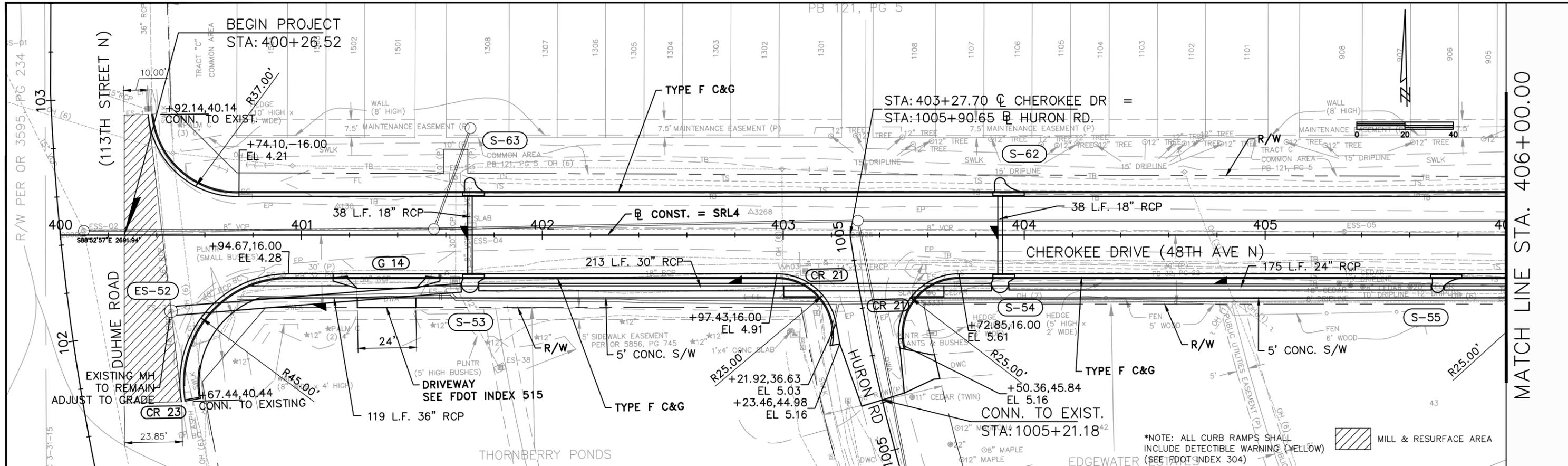
PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION

- 67. WHEN WORKING NEAR A WETLAND, THE CONTRACTOR SHALL COMPLY WITH THE SWFWMD ERP BASIS OF REVIEW, PART B, CHAPTER 3, SECTION 3.2.4.1
- 68. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE GUIDELINES IN ACCORDANCE WITH THE FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL, 2008, AND THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, LATEST EDITION.
- 69. THE CONTRACTOR SHALL HAVE A QUALIFIED STORMWATER MANAGEMENT INSPECTOR THAT HAS BEEN CERTIFIED THROUGH THE FDEP ON SITE DURING ALL CONSTRUCTION ACTIVITIES.
- 70. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL COORDINATE WITH PINELLAS COUNTY DEI NATURAL RESOURCES SECTION REGARDING ANALYTICAL TESTING, MONITORING, REPORTING, AND DISCHARGING.
- 71. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE NECESSARY DEWATERING PERMITS FROM THE LOCAL WATER MANAGEMENT DISTRICT OR OTHER REGULATORY AGENCY.
- 72. PRIOR TO THE START OF EXCAVATION, THE CONTRACTOR SHALL SUBMIT A SITE-SPECIFIC DEWATERING PLAN TO PINELLAS COUNTY FOR APPROVAL. THE PLAN SHALL INCLUDE DETAILS ON THE METHODS OF DEWATERING, 24-HR. OPERATIONS AND MONITORING, DISCHARGING AND DISCHARGE RATES, MAINTAINING THE SYSTEM, REMOVING THE SYSTEM, AND A LIST OF STANDARD EQUIPMENT (INCLUDING STAND-BY EQUIPMENT FOR EMERGENCY USE.)
- 73. THE CONTRACTOR SHALL TEST THE SYSTEM FOR OPTIMAL PERFORMANCE PRIOR TO THE START OF EXCAVATION AND MONITOR THE PERFORMANCE DURING DEWATERING ACTIVITIES. THE CONTRACTOR SHALL IMPLEMENT CORRECTIVE MEASURES AS NEEDED TO MAINTAIN OPTIMAL PERFORMANCE, INCLUDING BUT NOT LIMITED TO SEEPAGE, PRESSURE CONDITIONS, AND EQUIPMENT REPAIRS.
- 74. THE DEWATERING SITE/AREA SHALL BE REGRADED AND SEEDED/SODDED, AS DIRECTED BY THE ENGINEER, AFTER DEWATERING ACTIVITIES HAVE BEEN COMPLETED.

SIDEWALK AND DRIVEWAY RESTORATION

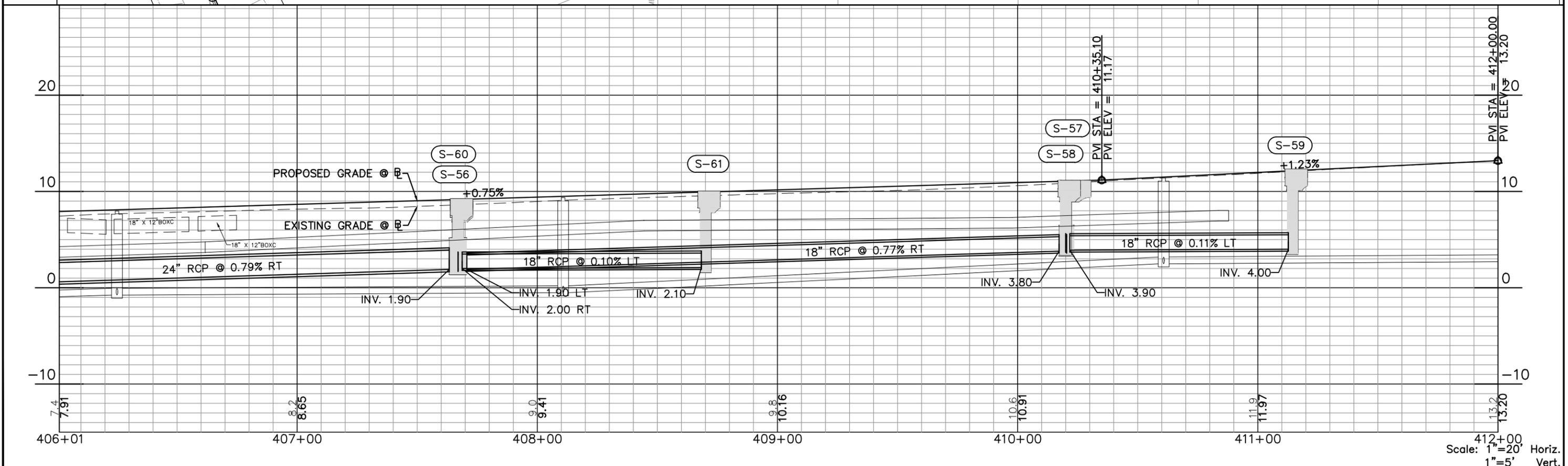
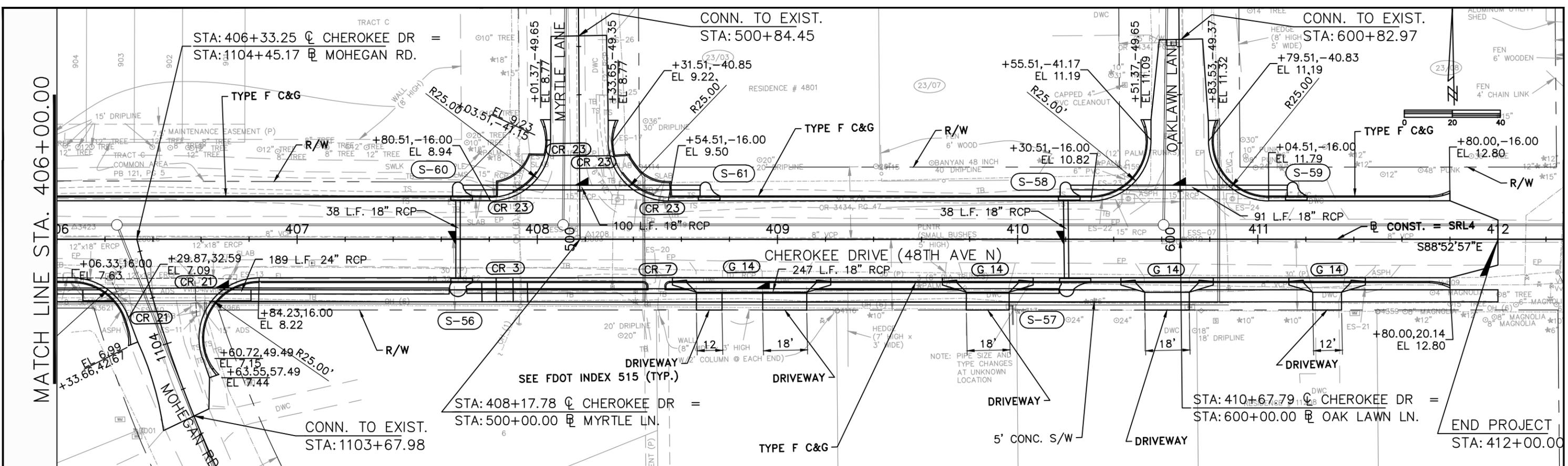
- 75. ALL EXISTING AND PROPOSED UTILITY AND STORM SEWER STRUCTURE TOPS THAT WILL BE EXPOSED WITHIN ANY SIDEWALK OR PAVED AREA SHALL BE ADJUSTED SO THAT THE TOP SURFACE OF COVERS OR FRAMES SHALL BE FLUSH WITH THE SIDEWALK OR PAVEMENT SURFACE. ALL EXISTING AND PROPOSED UTILITY AND STORM SEWER STRUCTURE TOPS THAT WILL BE EXPOSED WITHIN UNPAVED AREAS SUBJECT TO VEHICULAR BICYCLE, OR PEDESTRIAN TRAFFIC SHALL BE ADJUSTED SO THAT THE TOP SURFACE OR COVERS OR FRAMES SHALL BE NO MORE THAN ONE INCH ABOVE THE FINISHED GRADE. WHERE SODDING IS APPLIED, "FINISHED GRADE" SHALL BE THE NOMINAL HEIGHT OF GRASS AFTER THE SOD IS FIRMLY PLACED.
- 76. ANY PRIVATELY OWNED FEATURES LOCATED ON PRIVATE PROPERTY AND OUTSIDE THE DESIGNATED AREA OF CONSTRUCTION DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED IN A TIMELY MANNER, AT THE EXPENSE OF THE CONTRACTOR.
- 77. ASPHALT USED FOR PATCHING DRIVEWAYS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CORRESPONDING ASPHALTIC CONCRETE TYPE, UNLESS OTHERWISE SPECIFIED.
- 78. THE CONTRACTOR SHALL DISTURB NO MORE GROUND THAN WHAT IS NECESSARY FOR CONSTRUCTION. NO OPEN EXCAVATED TRENCH, OR OTHER UNSAFE CONDITION, WILL BE LEFT OVERNIGHT. ALL WORK SITES WILL BE COMPLETELY RESTORED WITHIN SEVEN (7) CALENDAR DAYS OF THE CONCRETE POUR FOR SIDEWALK. THE INTENT OF THIS PROVISION IS TO "SAFE UP" THE PROJECT SITE AS WORK PROGRESSES, AND SHALL INCLUDE REMOVING FORMS, FILLING HOLES, GRADING, AND REMOVAL OF DEBRIS.
- 79. SIDEWALK SHALL BE CONSTRUCTED ACCORDING TO FDOT INDEX 310, AND SIDEWALK RAMPS SHALL BE CONSTRUCTED ACCORDING TO FDOT INDEX 304, UNLESS A SEPARATE DETAIL IS PROVIDED. SIDEWALK RAMPS SHALL BE CONSTRUCTED TO A MINIMUM THICKNESS OF SIX (6) INCHES AND SHALL BE REINFORCED WITH EITHER WELDED WIRE FABRIC OR REINFORCING STEEL BARS, AS SHOWN ON THE PLANS OR AS APPROVED BY THE ENGINEER. THE CONTRACTOR WILL INSTALL AN EXPANSION JOINT AT EACH END OF A CURB CUT.
- 80. THE CONTRACTOR WILL REQUEST A PRE-POUR INSPECTION BY THE DESIGNATED COUNTY INSPECTOR. THE CONTRACTOR SHALL NOT POUR ANY SIDEWALK OR SIDEWALK RAMP CONCRETE UNTIL IT PASSES A "PRE-POUR" INSPECTION AND COUNTY INSPECTOR APPROVES THAT ALL DE-ROOTING AND CLEARING AND GRUBBING REQUIREMENTS, IF ANY, ARE PERFORMED IN ACCORDANCE WITH THIS SPECIFICATION, TO VERIFY THAT ALL FORM WORK IS SUFFICIENT, AND THAT THE SUBGRADE IS CUT TO THE PROPER DEPTH AND COMPACTED PROPERLY. WORK NOT IN ACCORDANCE WITH A COUNTY "POST-POUR" INSPECTION MAY REQUIRE THE COMPLETE REMOVAL OF REJECTED WORK OR RESULT IN A REDUCED PAYMENT OF THE DELIVERABLE. THE PRE-POUR INSPECTION APPROVAL SHALL NOT RELEASE THE CONTRACTOR FROM THE RESPONSIBILITY OF COMPLETING ALL WORK IN ACCORDANCE WITH PLANS AND SPECIFICATIONS OR DIRECTIONS OF THE ENGINEER.
- 81. THE CONTRACTOR SHALL REMOVE AND DISPOSE, IN AREAS PROVIDED BY THE CONTRACTOR, ALL EXCESS CONCRETE BYPRODUCTS (CURB, SIDEWALK, ETC.)
- 82. ALL SIDEWALK DAMAGED BY THE CONTRACTOR OR SUBCONTRACTORS SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR, AT THE DIRECTION OF THE ENGINEER.
- 83. SIDEWALK CURB RAMPS SHALL BE PAID FOR AS DEFINED BY FDOT "DESIGN STANDARDS" INDEX 304 (FROM BACK OF CURB TO THE LANDING, INCLUDING CURB AND TACTILE PAD.)

DESIGNED	XXX	 <p>DIVISION OF ENGINEERING AND TECHNICAL SUPPORT 14 S. FT. HARRISON AVE., CLEARWATER, FL 33756</p>	PROJECT:	CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST	DESCRIPTION:	GENERAL NOTES	APPROVED BY:	DATE:	2013/2014	
DRAWN	XXX								PROJECT NO.	005267A
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REV. NO.	DATE	DESCRIPTION	REV. BY					XXXX XXXXXXXX, P.E. FLA. REG. NO XXXX-XX	DATE	



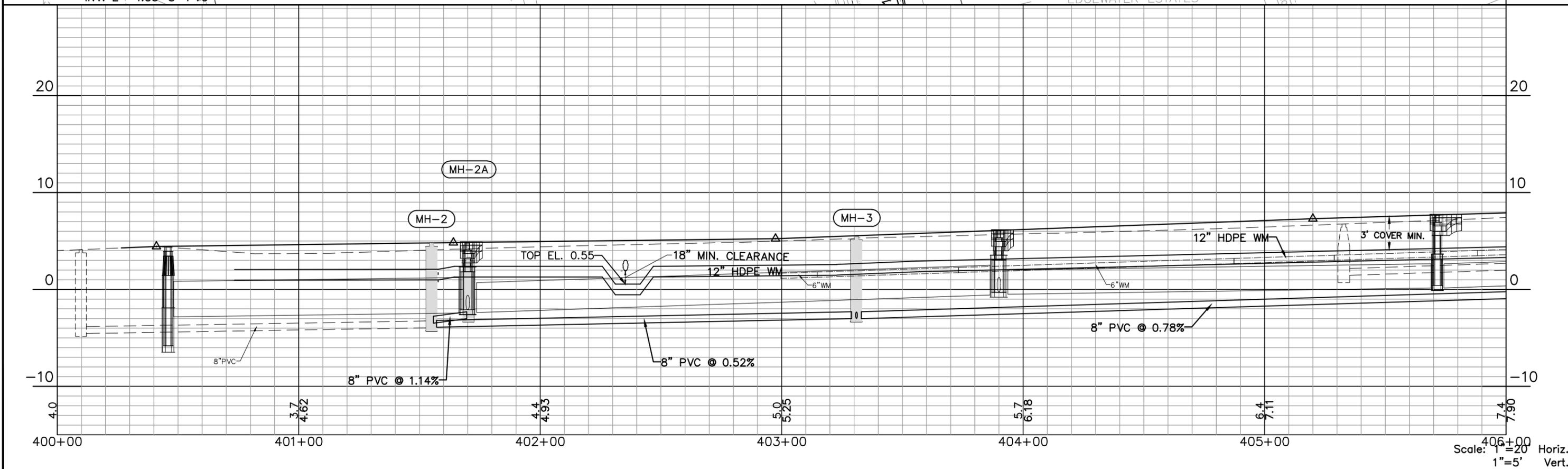
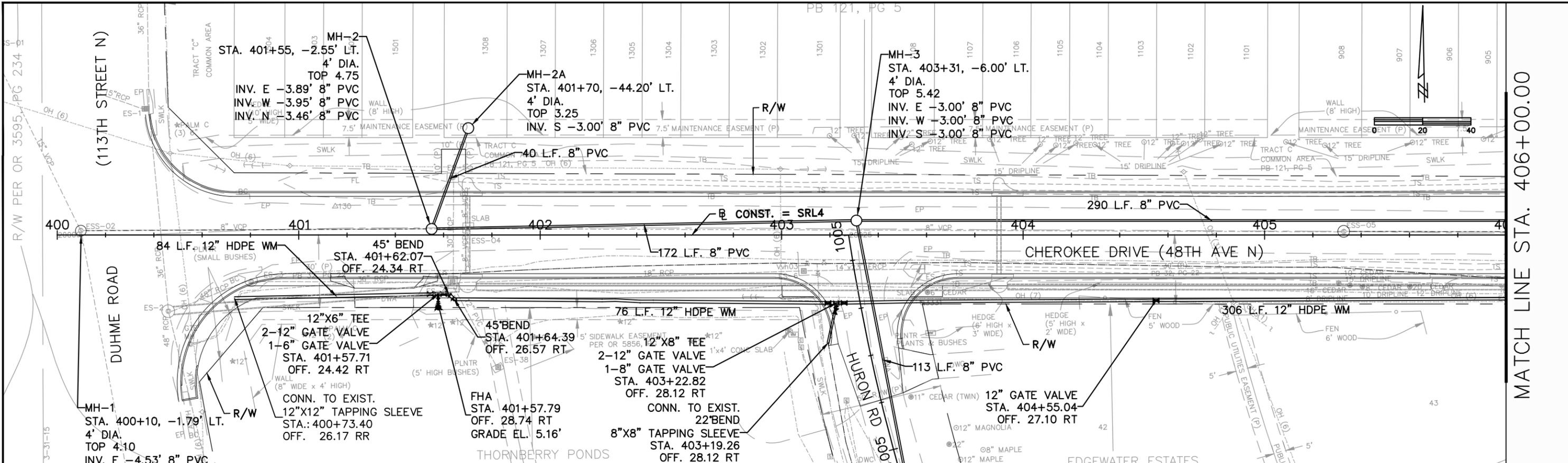
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	DESIGNED: LDS	 PINELLAS COUNTY ENVIRONMENT AND INFRASTRUCTURE	PROJECT: CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST	DESCRIPTION: PLAN & PROFILE STA.400+00 TO STA.406+00	APPROVED BY: _____	DATE: 2013/2014	
	DRAWN: LDS					XXXX XXXXXXXX, P.E. FLA. REG. NO XXXX-XX	PROJECT NO. 005267A
REV. NO. DATE DESCRIPTION	CHECKED: JW					DATE	SHEET: 08 OF 33



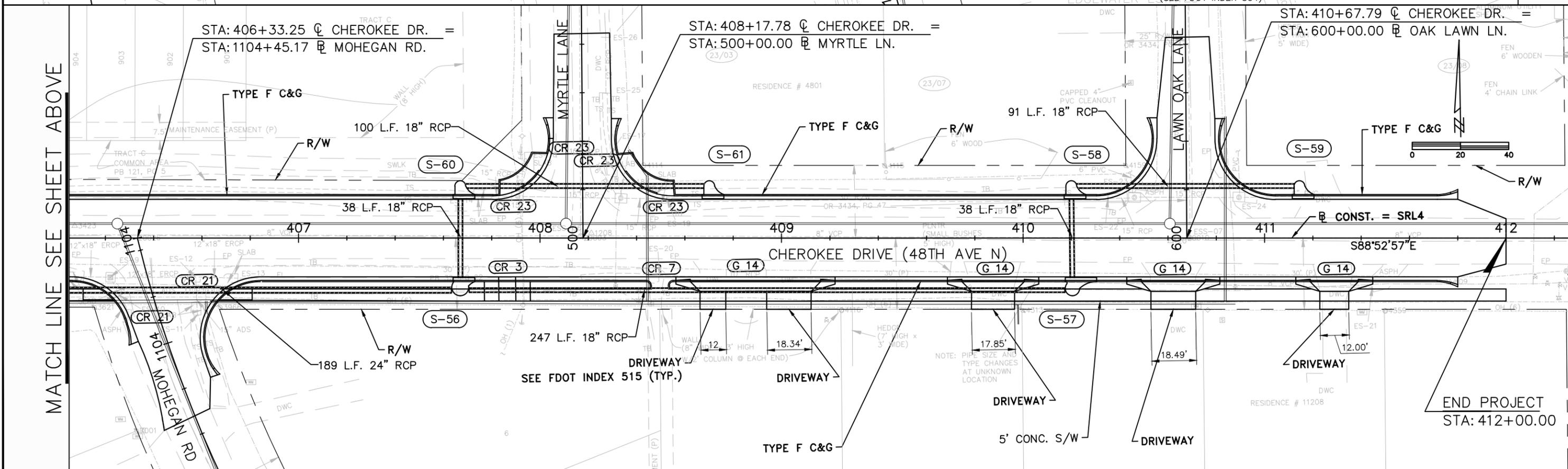
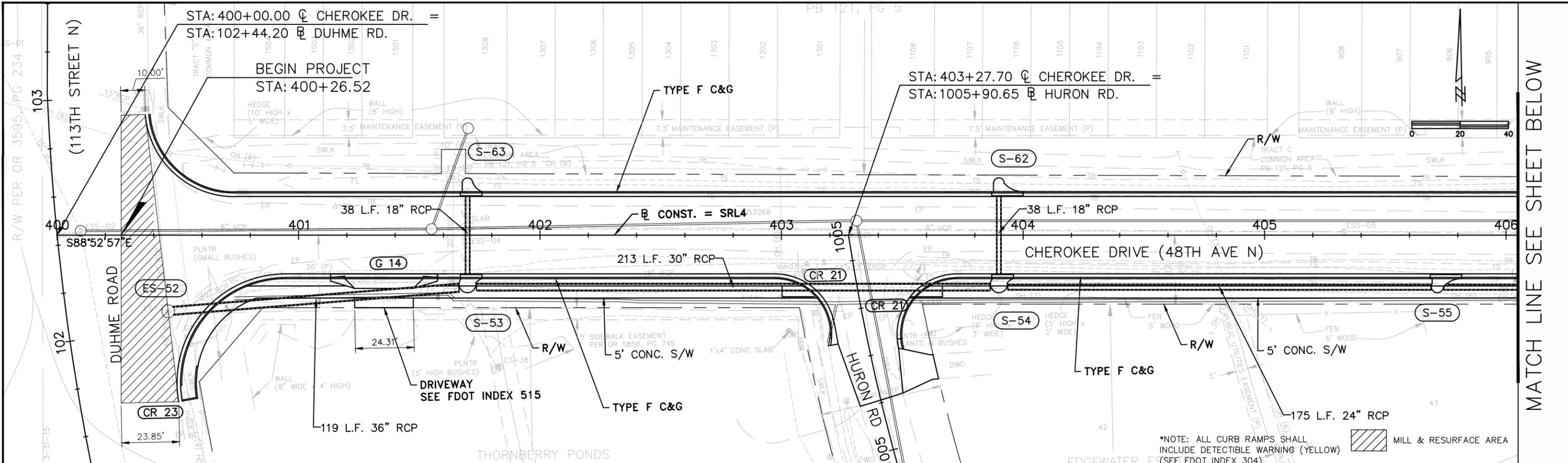
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REV. NO.	DATE	DESCRIPTION	REV. BY											



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DESIGNED	LDS	 PINELLAS COUNTY DIVISION OF ENGINEERING AND TECHNICAL SUPPORT 14 S. FT. HARRISON AVE., CLEARWATER, FL 33756	PROJECT:	CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST	DESCRIPTION:	PROPOSED SANITARY & WATER PLAN & PROFILE STA. 400+00 TO STA. 406+00	APPROVED BY:	XXXX XXXXXXXX, P.E. FLA. REG. NO XXXX-XX	DATE	2013/2014	
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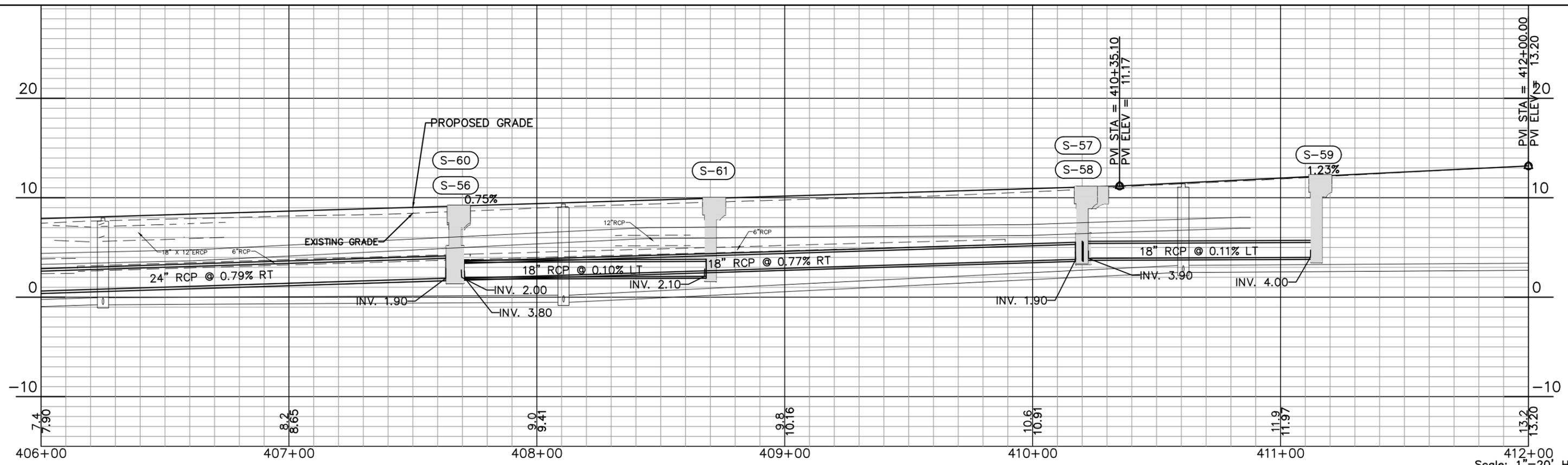
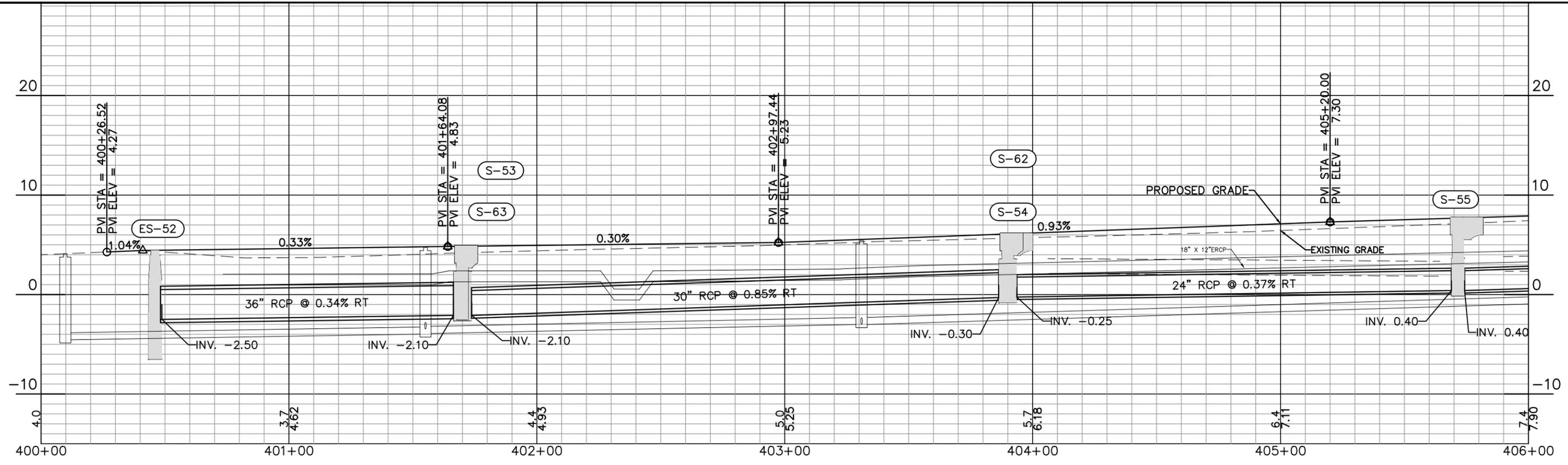
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DRAWN	LDS		PROJECT NO.	005267A					
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Scale: 1"=20' Horiz.
1"=5' Vert.

REV. NO.	DATE	DESCRIPTION	REV. BY

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DIVISION OF ENGINEERING AND TECHNICAL SUPPORT
14 S. FT. HARRISON AVE., CLEARWATER, FL 33756

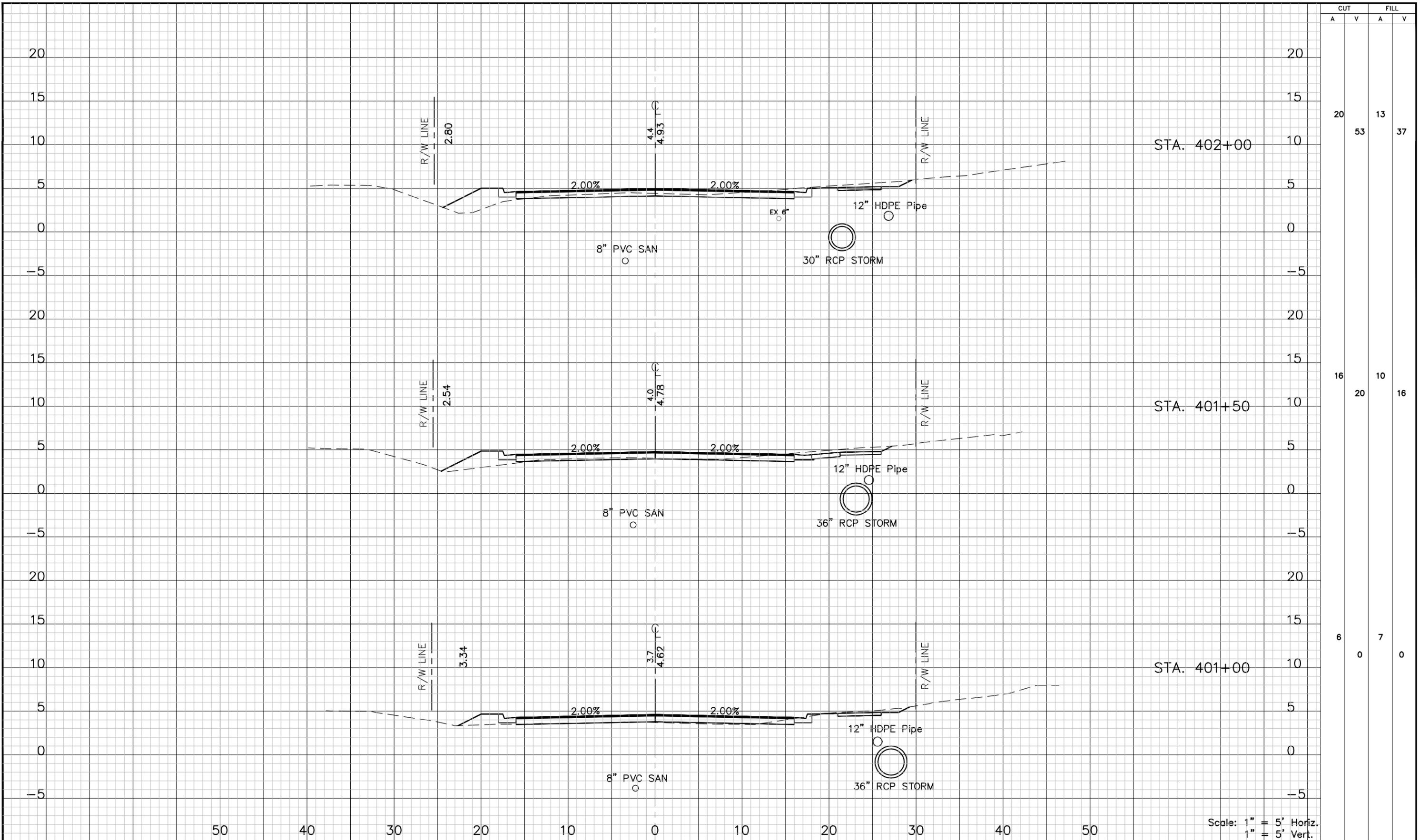
PROJECT: CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST

DESCRIPTION: PROPOSED STORM PROFILE VIEW ONLY

APPROVED BY: _____ DATE: _____
XXXX XXXXXXXX, P.E.
FLA. REG. NO XXXX-XX

DATE: 2013/2014
PROJECT NO. 005267A
SHEET: 13 OF 33

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CUT		FILL	
A	V	A	V
20	53	13	37
16	20	10	16
6	0	7	0

Scale: 1" = 5' Horiz.
1" = 5' Vert.

REV. NO.	DATE	DESCRIPTION	REV. BY

DESIGNED	XXX
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DIVISION OF ENGINEERING AND TECHNICAL SUPPORT
14 S. FT. HARRISON AVE., CLEARWATER, FL 33756

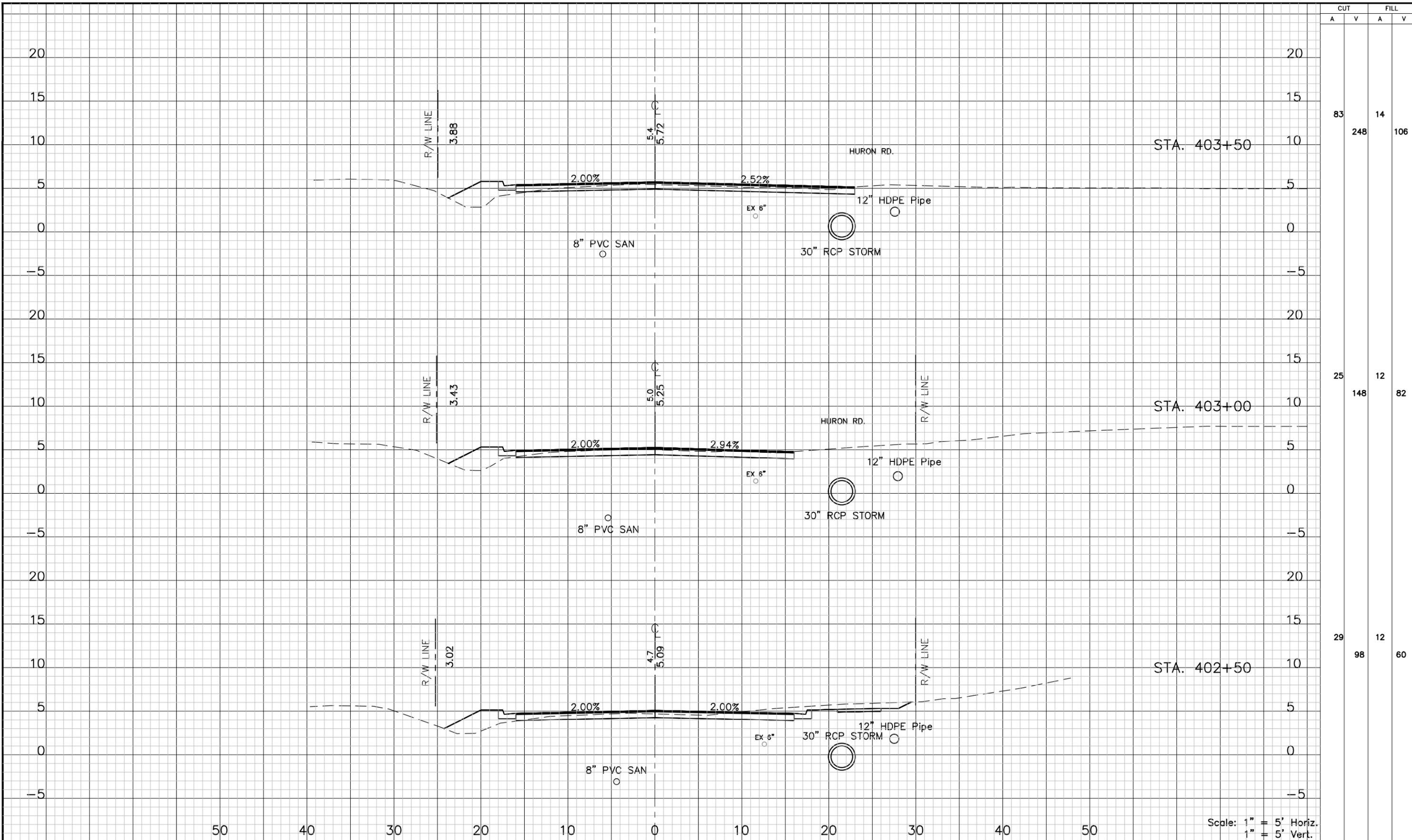
PROJECT: **CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST**

DESCRIPTION: **CROSS SECTIONS**

APPROVED BY: _____ DATE: _____
XXXX XXXXX P.E. FLA. REG. NO XXXX-XX

DATE: 2013/2014
PROJECT NO. 005267A
SHEET: 14 OF 33

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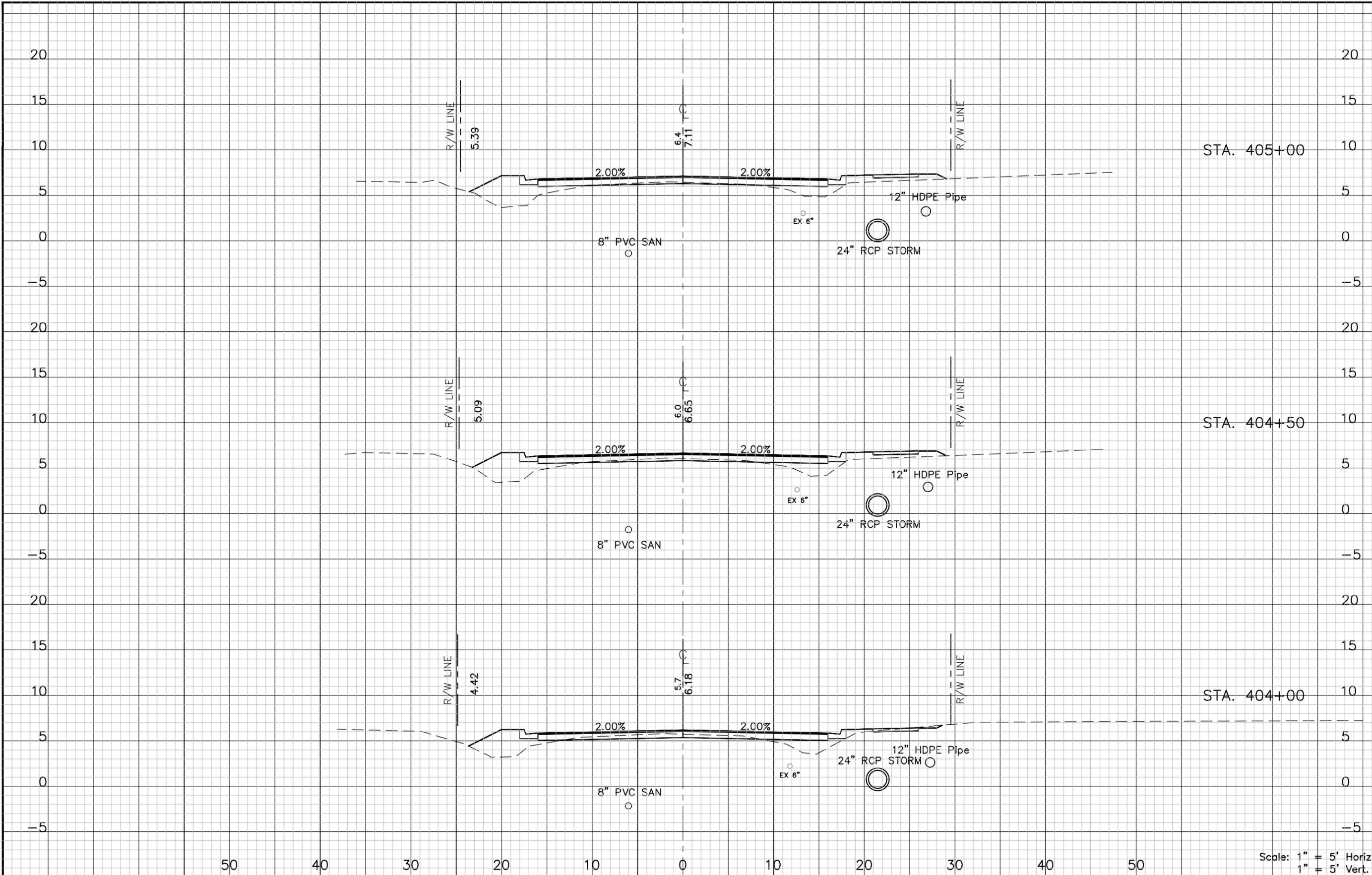
CUT		FILL	
A	V	A	V
83	248	14	106
25	148	12	82
29	98	12	60

Scale: 1" = 5' Horiz.
1" = 5' Vert.

DESIGNED: XXX		DIVISION OF ENGINEERING AND TECHNICAL SUPPORT 14 S. FT. HARRISON AVE., CLEARWATER, FL 33756	PROJECT: CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST	DESCRIPTION: CROSS SECTIONS	APPROVED BY: _____	DATE: 2013/2014
DRAWN: XXX			PROJECT NO. 005267A			
CHECKED: XX			FLA. REG. NO XXXX-XX			

REV. NO.	DATE	DESCRIPTION	REV. BY

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CUT		FILL	
A	V	A	V
2	349	33	254
4	344	31	194
9	333	25	142

Scale: 1" = 5' Horiz.
1" = 5' Vert.

REV. NO.	DATE	DESCRIPTION	REV. BY

DESIGNED XXX
DRAWN XXX
CHECKED XX



DIVISION OF ENGINEERING AND TECHNICAL SUPPORT
14 S. FT. HARRISON AVE., CLEARWATER, FL 33756

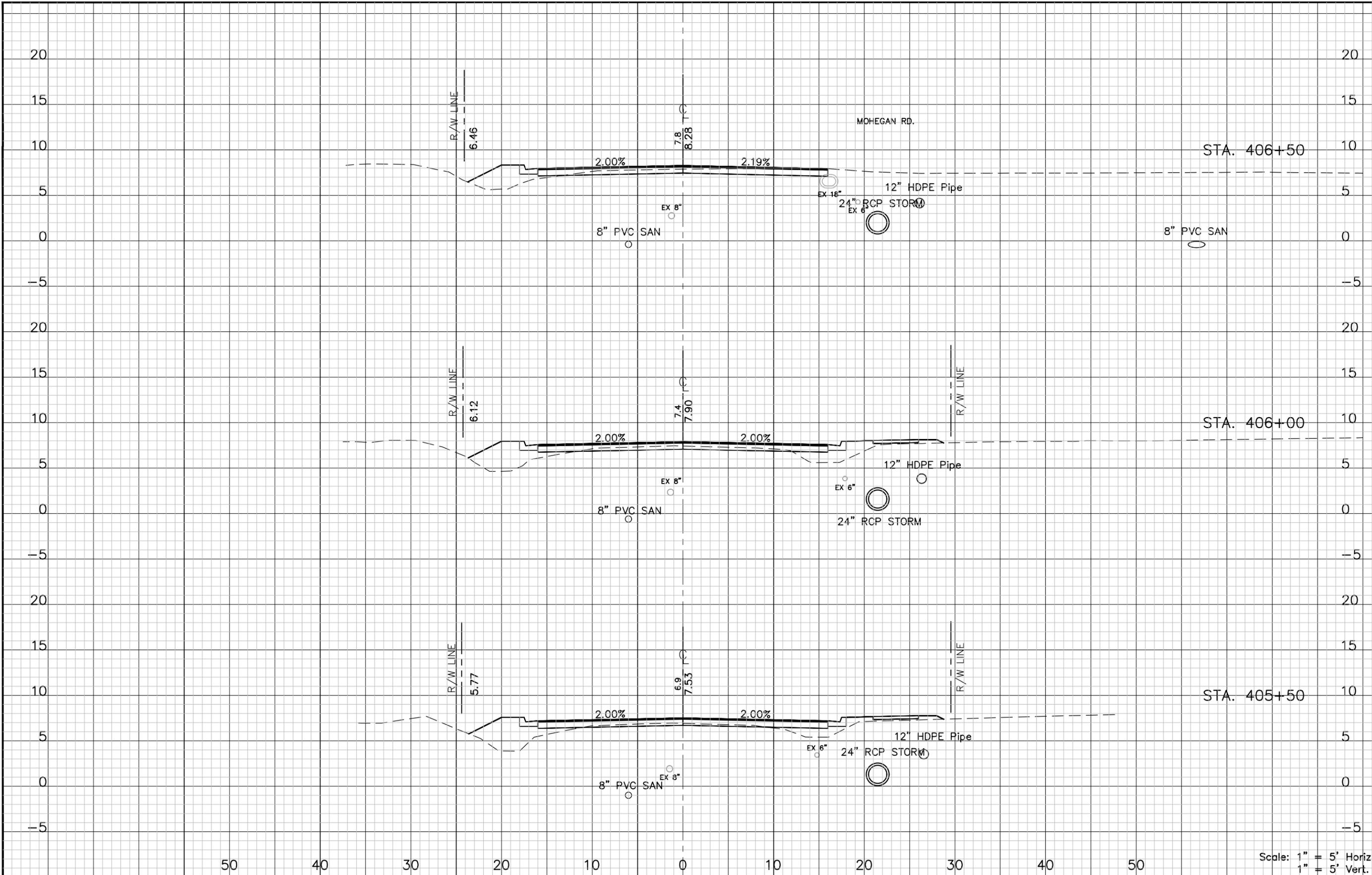
PROJECT: **CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST**

DESCRIPTION: **CROSS SECTIONS**

APPROVED BY: _____ DATE _____
XXXX XXXXX P.E.
FLA. REG. NO XXXX-XX

DATE: 2013/2014
PROJECT NO. 005267A
SHEET: 16 OF 33

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CUT		FILL	
A	V	A	V
92	457	15	413
7	365	31	370
4	355	30	313

Scale: 1" = 5' Horiz.
1" = 5' Vert.

REV. NO.	DATE	DESCRIPTION	REV. BY

DESIGNED: XXX
DRAWN: XXX
CHECKED: XX



DIVISION OF ENGINEERING AND TECHNICAL SUPPORT
14 S. FT. HARRISON AVE., CLEARWATER, FL 33756

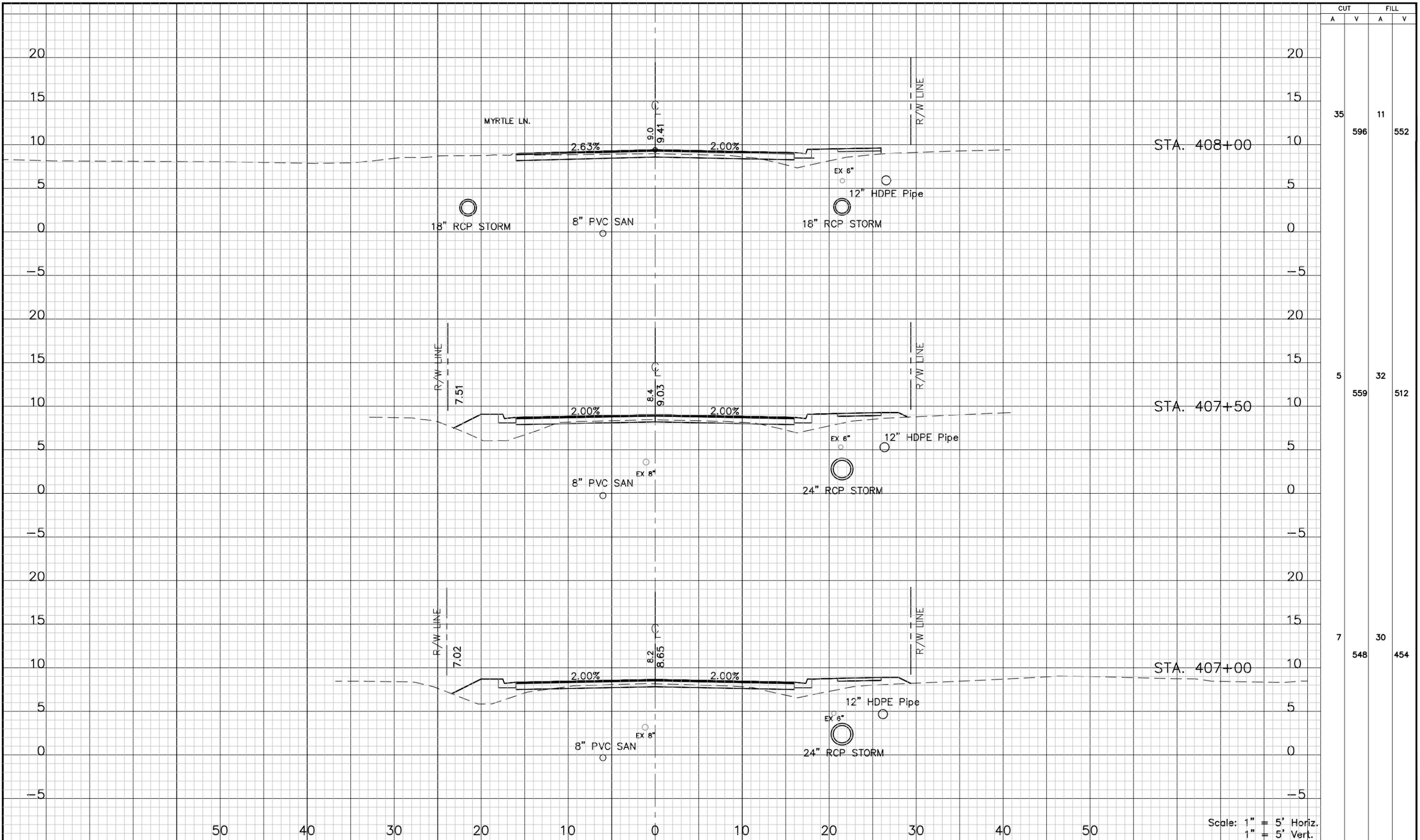
PROJECT: CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST

DESCRIPTION: CROSS SECTIONS

APPROVED BY: _____ DATE: _____
XXXX XXXXX P.E. FLA. REG. NO XXXX-XX

DATE: 2013/2014
PROJECT NO. 005267A
SHEET: 17 OF 33

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CUT		FILL	
A	V	A	V
35	596	11	552
5	559	32	512
7	548	30	454

Scale: 1" = 5' Horiz.
1" = 5' Vert.

REV. NO.	DATE	DESCRIPTION	REV. BY

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CHECKED: XX



DIVISION OF ENGINEERING AND TECHNICAL SUPPORT
14 S. FT. HARRISON AVE., CLEARWATER, FL 33756

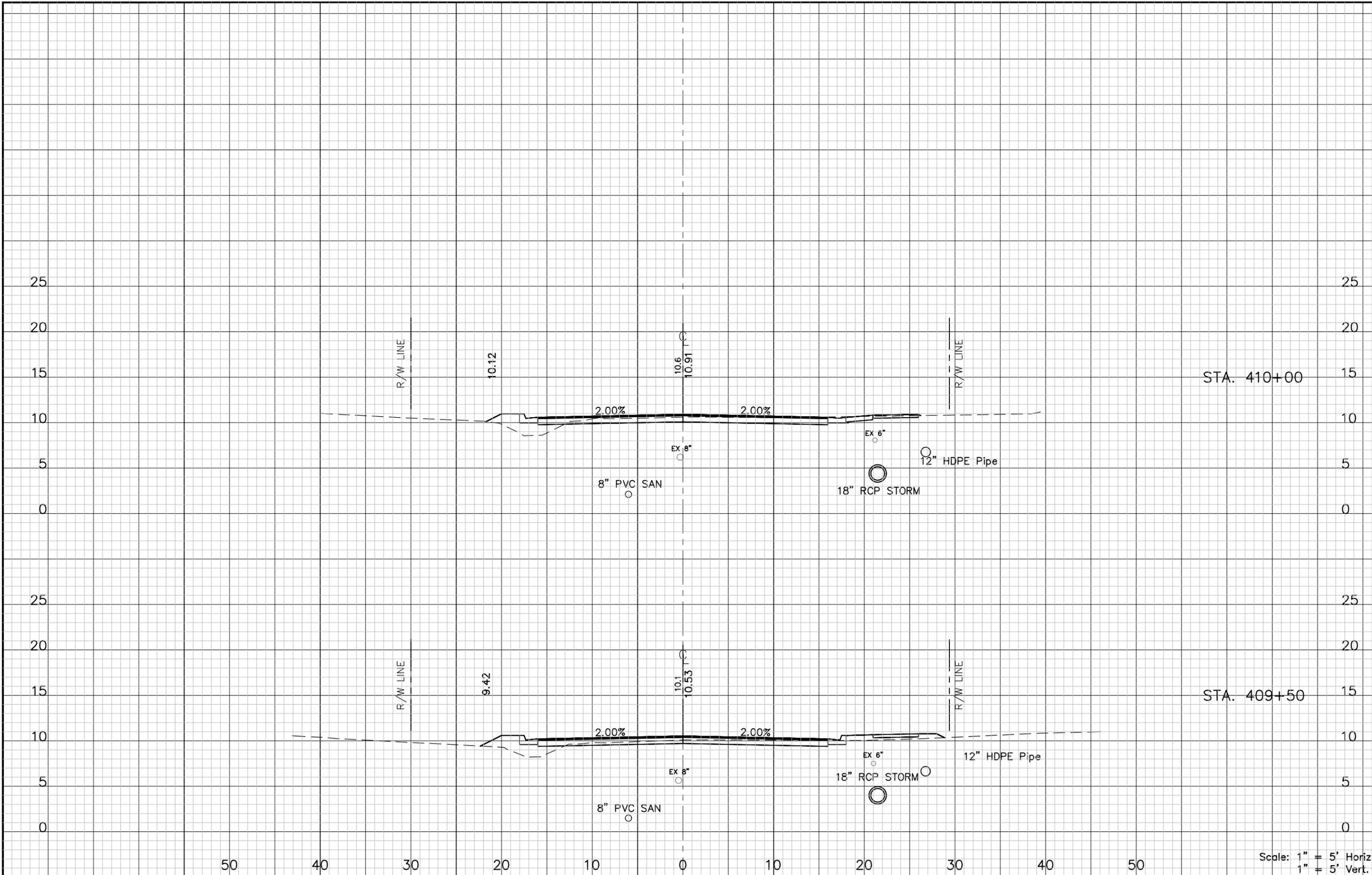
PROJECT: CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST

DESCRIPTION: CROSS SECTIONS

APPROVED BY: _____ DATE: _____
XXXX XXXXX P.E. FLA. REG. NO XXXX-XX

DATE: 2013/2014
PROJECT NO. 005267A
SHEET: 18 OF 33

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CUT		FILL	
A	V	A	V
21	741	10	630
13	710	15	607

Scale: 1" = 5' Horiz.
1" = 5' Vert.

REV. NO.	DATE	DESCRIPTION	REV. BY

DESIGNED XXX
DRAWN XXX
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DIVISION OF ENGINEERING AND TECHNICAL SUPPORT
14 S. FT. HARRISON AVE., CLEARWATER, FL 33756

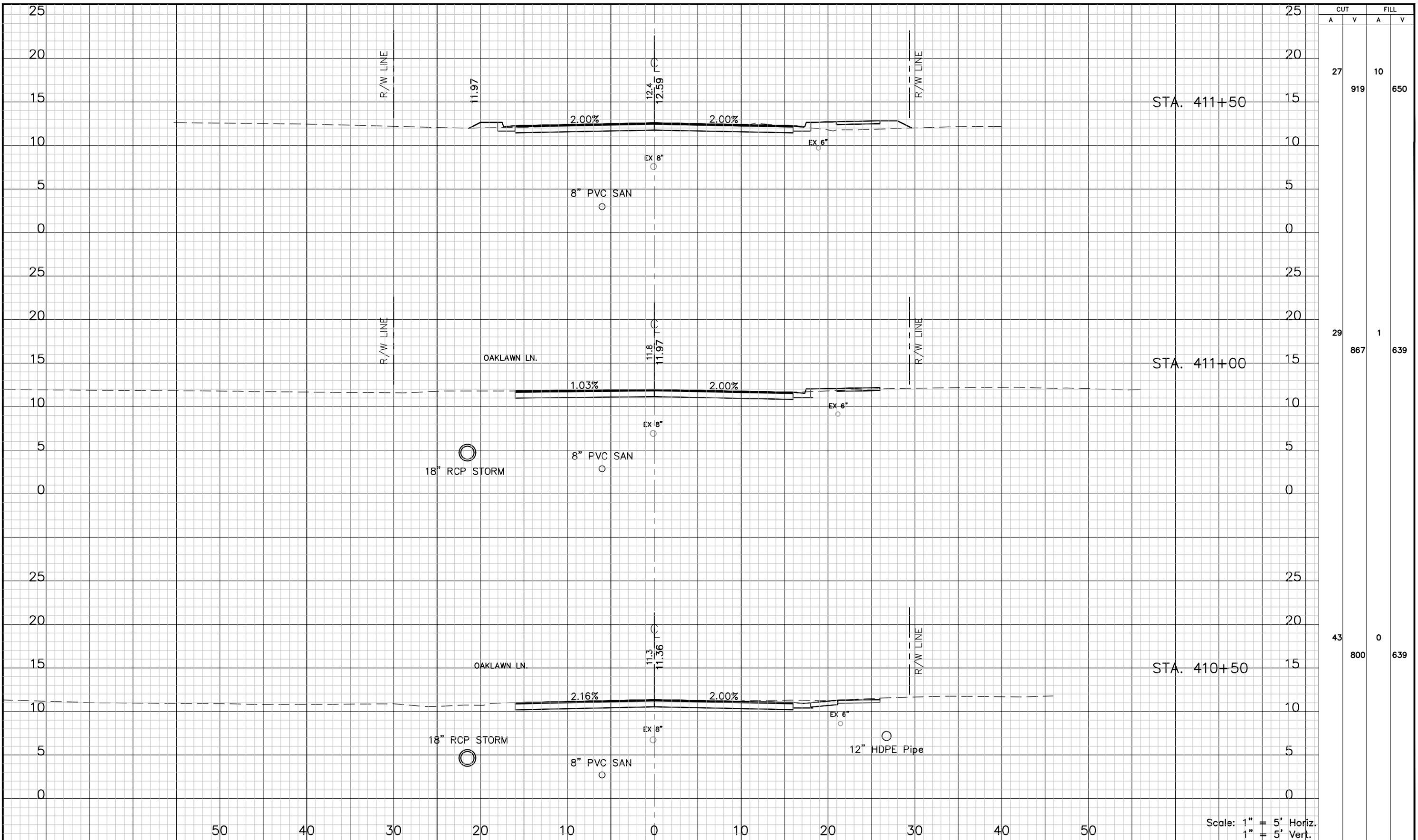
PROJECT: CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST

DESCRIPTION: CROSS SECTIONS

APPROVED BY: _____ DATE: _____
XXXX XXXXXXXX, P.E.
FLA. REG. NO XXXX-XX

DATE: 2013/2014
PROJECT NO. 005267A
SHEET: 20 OF 33

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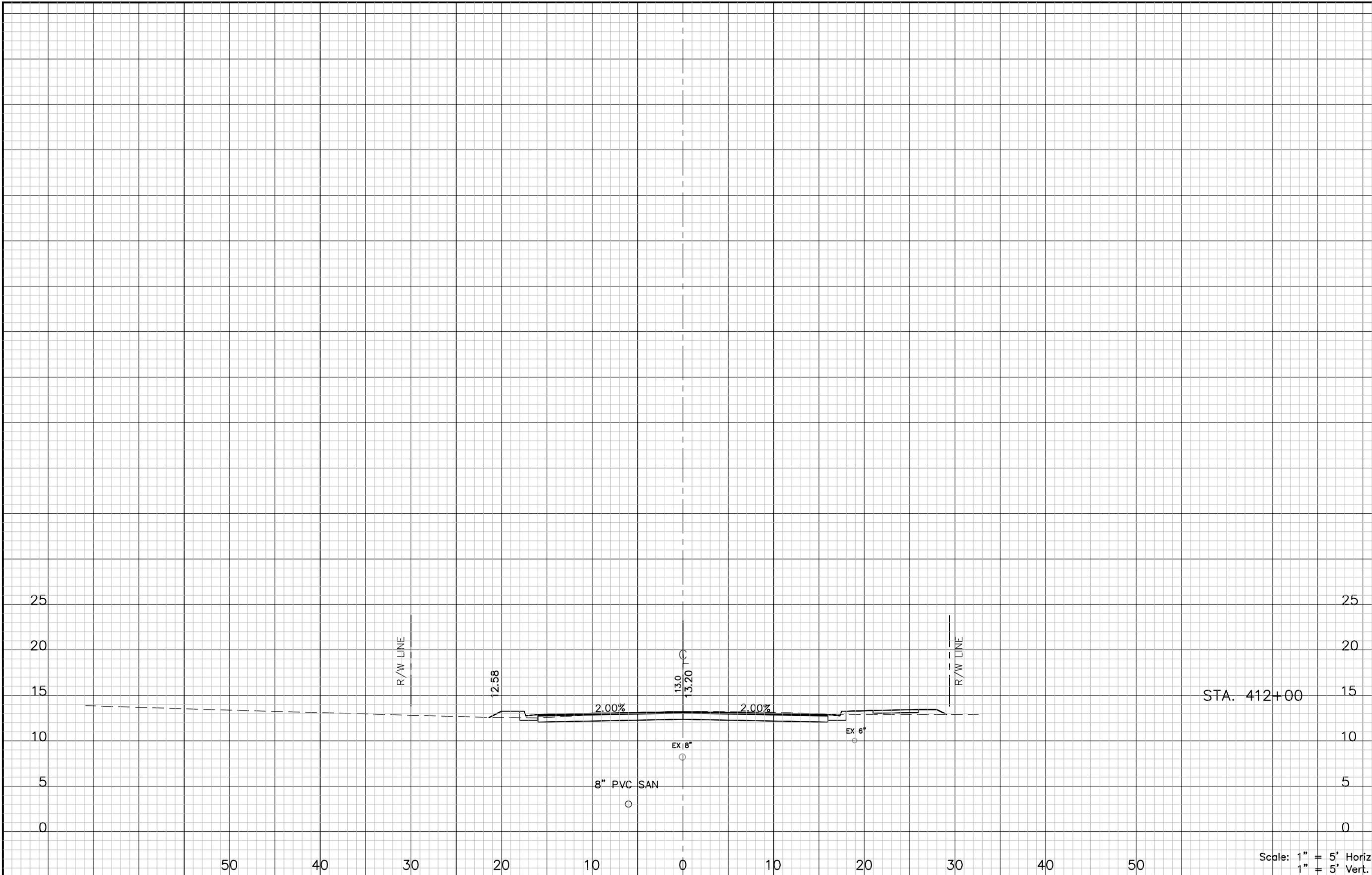


CUT		FILL	
A	V	A	V
27	919	10	650
29	867	1	639
43	800	0	639

Scale: 1" = 5' Horiz.
1" = 5' Vert.

DESIGNED: XXX		DIVISION OF ENGINEERING AND TECHNICAL SUPPORT 14 S. FT. HARRISON AVE., CLEARWATER, FL 33756	PROJECT: CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST	DESCRIPTION: CROSS SECTIONS	APPROVED BY: _____ DATE: _____	DATE: 2013/2014
DRAWN: XXX			PROJECT NO. 005267A			
CHECKED: XXX			SHEET: 21 OF 33			

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CUT		FILL	
A	V	A	V
27	968	6	665

Scale: 1" = 5' Horiz.
1" = 5' Vert.

REV. NO.	DATE	DESCRIPTION	REV. BY

DESIGNED	XXX
DRAWN	XXX
CHECKED	XXX



DIVISION OF ENGINEERING AND TECHNICAL SUPPORT
14 S. FT. HARRISON AVE., CLEARWATER, FL 33756

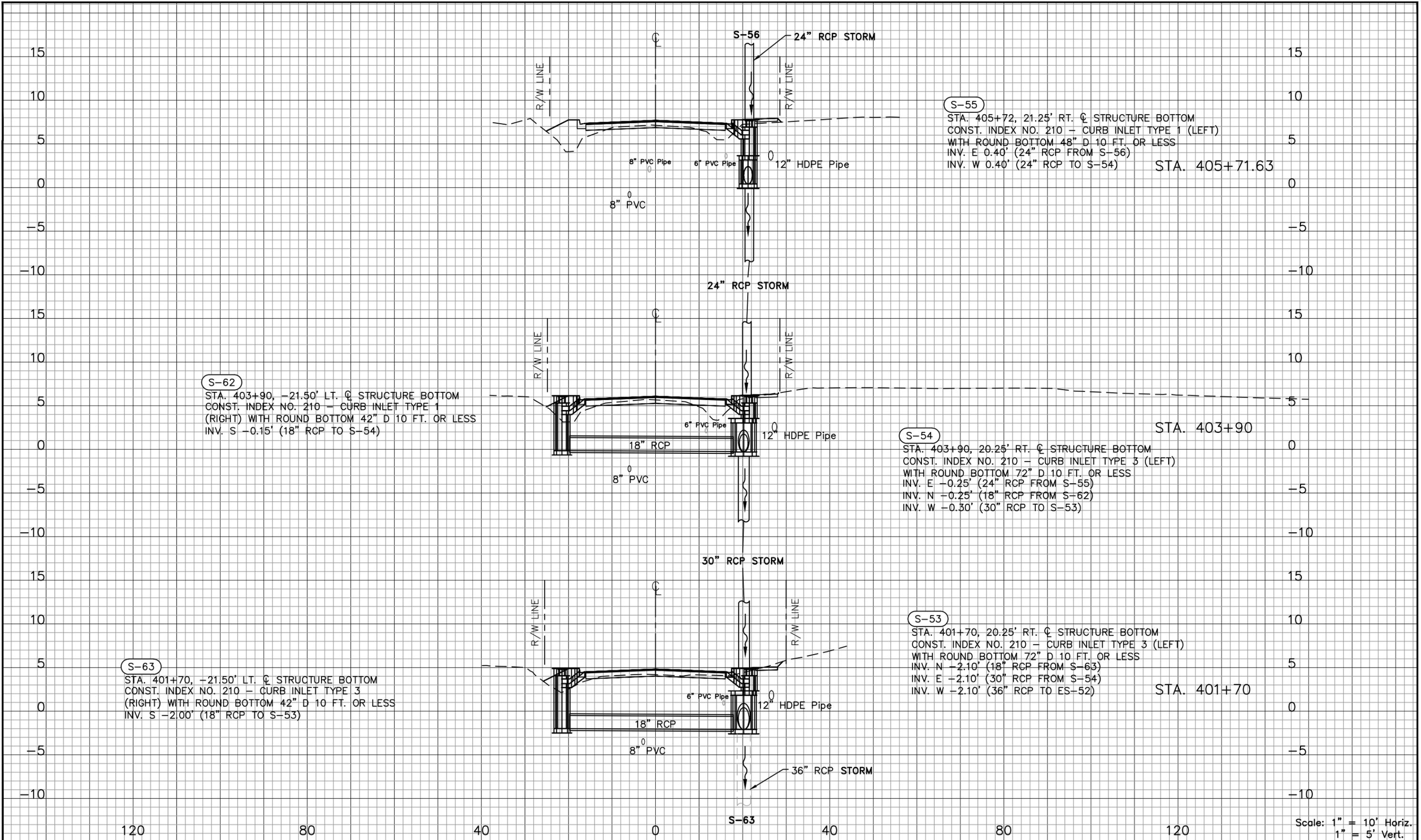
PROJECT: CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST

DESCRIPTION: CROSS SECTIONS

APPROVED BY: _____ DATE: _____
XXXX XXXXXXXX, P.E.
FLA. REG. NO XXXX-XX

DATE:	2013/2014
PROJECT NO.	005267A
SHEET:	22 OF 33

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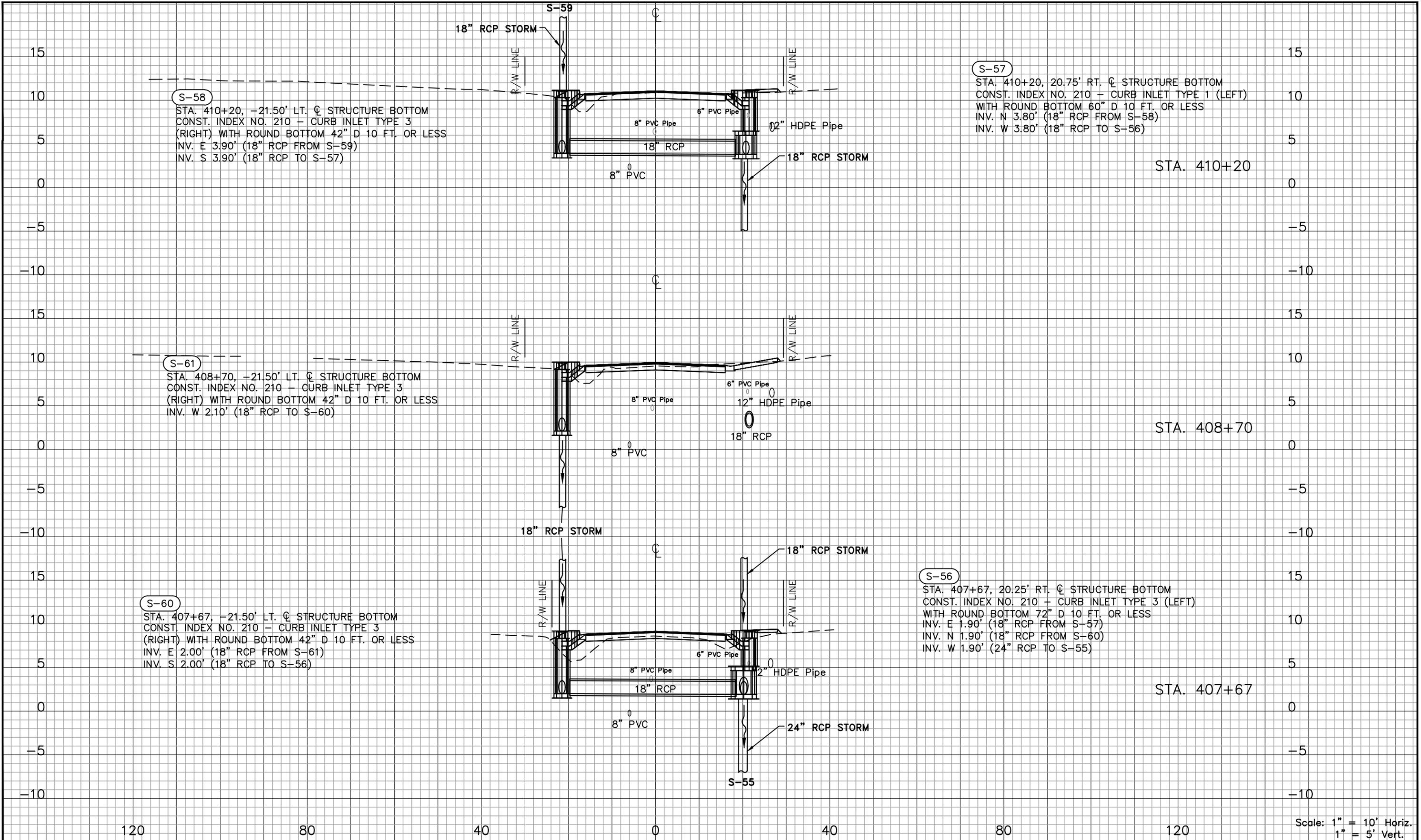


120 80 40 0 40 80 120

Scale: 1" = 10' Horiz.
1" = 5' Vert.

DESIGNED	XXX		DIVISION OF ENGINEERING AND TECHNICAL SUPPORT 14 S. FT. HARRISON AVE., CLEARWATER, FL 33756	PROJECT:	CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST	DESCRIPTION:	DRAINAGE STRUCTURE	APPROVED BY:	XXXX XXXXXXXX, P.E. FLA. REG. NO XXXX-XX	DATE	
DRAWN	XXX			DATE:	2013/2014	PROJECT NO.	005267A	SHEET:	23 OF 37		
CHECKED	XXX			REV. NO.		DESCRIPTION		REV. BY			

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S-58
 STA. 410+20, -21.50' LT. ϕ STRUCTURE BOTTOM
 CONST. INDEX NO. 210 - CURB INLET TYPE 3
 (RIGHT) WITH ROUND BOTTOM 42" D 10 FT. OR LESS
 INV. E 3.90' (18" RCP FROM S-59)
 INV. S 3.90' (18" RCP TO S-57)

S-57
 STA. 410+20, 20.75' RT. ϕ STRUCTURE BOTTOM
 CONST. INDEX NO. 210 - CURB INLET TYPE 1 (LEFT)
 WITH ROUND BOTTOM 60" D 10 FT. OR LESS
 INV. N 3.80' (18" RCP FROM S-58)
 INV. W 3.80' (18" RCP TO S-56)

S-61
 STA. 408+70, -21.50' LT. ϕ STRUCTURE BOTTOM
 CONST. INDEX NO. 210 - CURB INLET TYPE 3
 (RIGHT) WITH ROUND BOTTOM 42" D 10 FT. OR LESS
 INV. W 2.10' (18" RCP TO S-60)

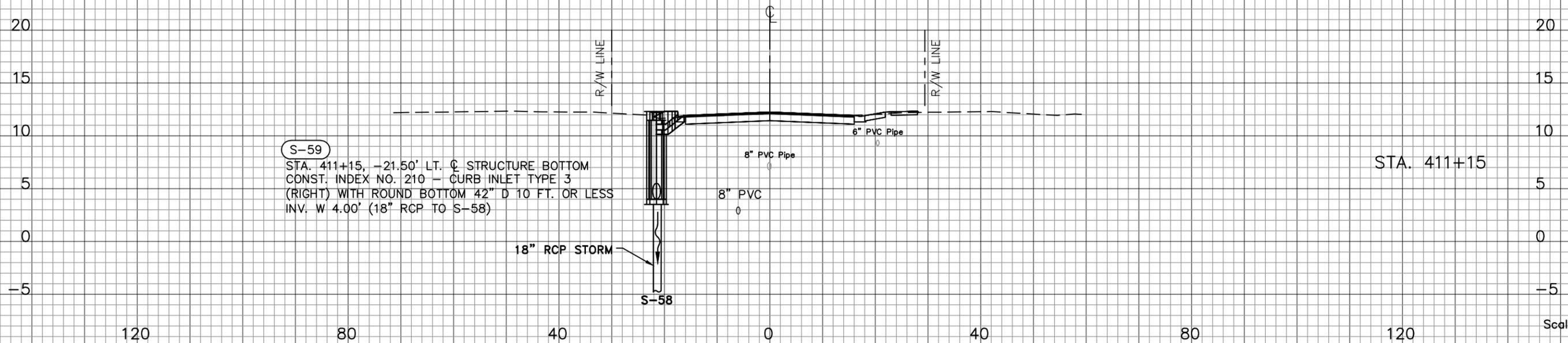
S-60
 STA. 407+67, -21.50' LT. ϕ STRUCTURE BOTTOM
 CONST. INDEX NO. 210 - CURB INLET TYPE 3
 (RIGHT) WITH ROUND BOTTOM 42" D 10 FT. OR LESS
 INV. E 2.00' (18" RCP FROM S-61)
 INV. S 2.00' (18" RCP TO S-56)

S-56
 STA. 407+67, 20.25' RT. ϕ STRUCTURE BOTTOM
 CONST. INDEX NO. 210 - CURB INLET TYPE 3 (LEFT)
 WITH ROUND BOTTOM 72" D 10 FT. OR LESS
 INV. E 1.90' (18" RCP FROM S-57)
 INV. N 1.90' (18" RCP FROM S-60)
 INV. W 1.90' (24" RCP TO S-55)

Scale: 1" = 10' Horiz.
 1" = 5' Vert.

DESIGNED	XXX	 DIVISION OF ENGINEERING AND TECHNICAL SUPPORT 14 S. FT. HARRISON AVE., CLEARWATER, FL 33756	PROJECT:	CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST	DESCRIPTION:	DRAINAGE STRUCTURE	APPROVED BY:	DATE:	2013/2014
DRAWN	XXX		PROJECT NO.	005267A					
CHECKED	XXX		FLA. REG. NO XXXX-XX						
REV. NO.	DATE	DESCRIPTION	REV. BY				DATE	SHEET: 24 OF 37	

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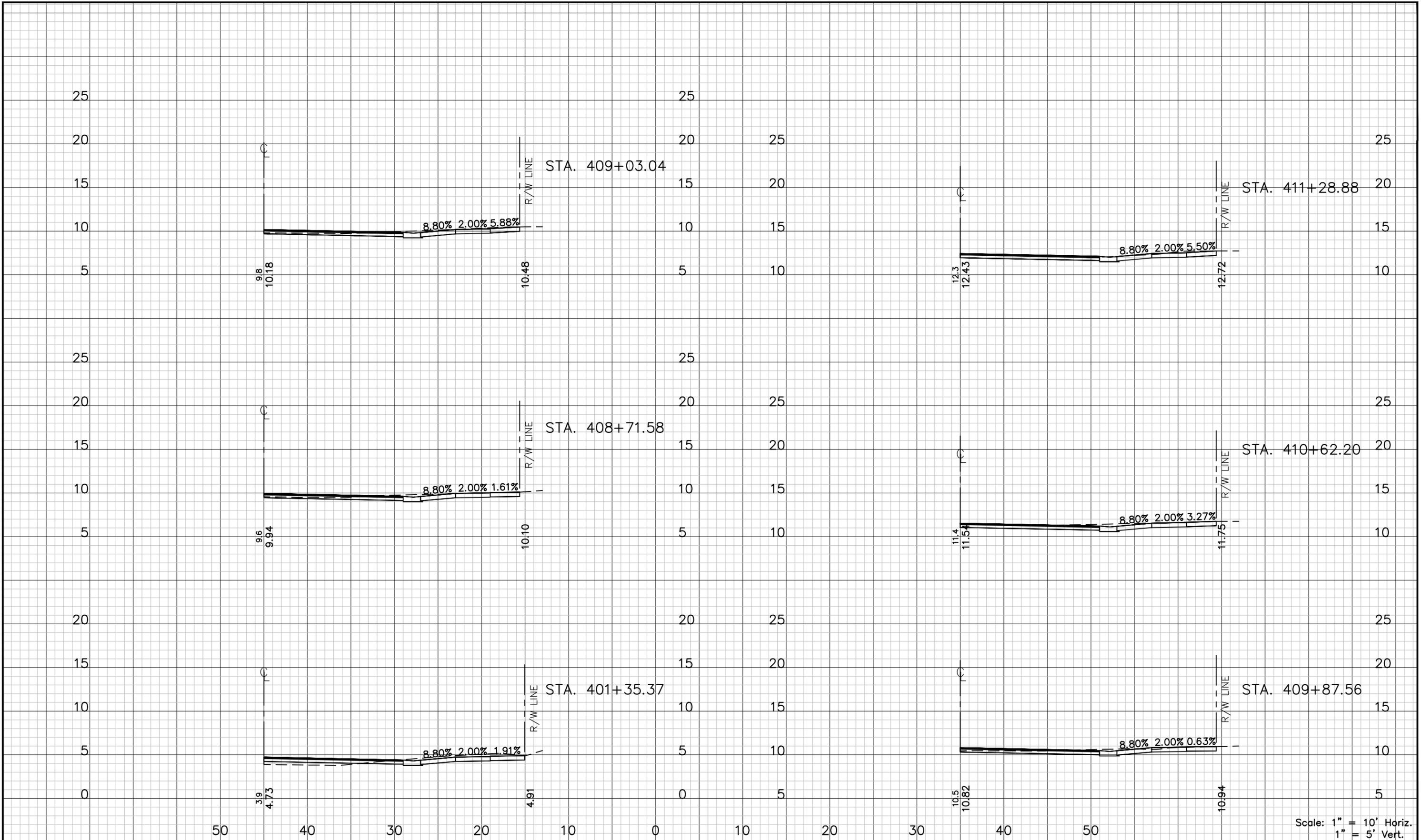
S-59
 STA. 411+15, -21.50' LT. C STRUCTURE BOTTOM
 CONST. INDEX NO. 210 - CURB INLET TYPE 3
 (RIGHT) WITH ROUND BOTTOM 42" D 10 FT. OR LESS
 INV. W 4.00' (18" RCP TO S-58)

STA. 411+15

Scale: 1" = 10' Horiz.
 1" = 5' Vert.

DESIGNED	XXX		DIVISION OF ENGINEERING AND TECHNICAL SUPPORT 14 S. FT. HARRISON AVE., CLEARWATER, FL 33756	PROJECT:	CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST	DESCRIPTION:	DRAINAGE STRUCTURE	APPROVED BY:	XXXX XXXXXXXX, P.E. FLA. REG. NO XXXX-XX	DATE:	2013/2014
DRAWN	XXX			PROJECT NO.		005267A					
CHECKED	XXX			SHEET:		25 OF 37					
REV. NO.	DATE	DESCRIPTION	REV. BY								

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Scale: 1" = 10' Horiz.
1" = 5' Vert.

DESIGNED	XXX	 PINELLAS COUNTY ENVIRONMENT AND INFRASTRUCTURE	DIVISION OF ENGINEERING AND TECHNICAL SUPPORT 14 S. FT. HARRISON AVE., CLEARWATER, FL 33756	PROJECT: CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST	DESCRIPTION: DRIVEWAY SECTIONS	APPROVED BY: _____ DATE	DATE:	2013/2014
DRAWN	XXX						PROJECT NO.	005267A
CHECKED	XXX						SHEET:	26 OF 37
REV. NO.	DATE	DESCRIPTION	REV. BY					

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I. SITE DESCRIPTION

A. CONSTRUCTION ACTIVITY

CONSTRUCTION ACTIVITIES ON THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A 5-FOOT WIDE 6" THICK CONCRETE SIDEWALK AND A 6-FOOT WIDE 6" THICK SIDEWALK. A BARRIER WALL WILL BE NECESSARY ALONG MOST OF THE WETLAND AREA.

B. PROJECT LIMITS

UNION STREET - BETTY LANE TO RIDGELANE ROAD.

C. PROJECT DESCRIPTION

INSTALLATION OF NEW SIDEWALK ON THE SOUTH SIDE OF UNION STREET. THIS IS PART OF THE SAFE ROUTES TO SCHOOL PROGRAM AND WILL IMPROVE SCHOOL PEDESTRIAN TRAFFIC TO BOTH DUNEDIN ELEMENTARY AND DUNEDIN HIGHLAND MIDDLE SCHOOLS IN THE CITY OF DUNEDIN.

D. MAJOR SOIL DISTURBING ACTIVITIES

CLEARING, GRUBBING, EXCAVATION, GRADING, AND COMPACTION ACTIVITIES FOR THE CONSTRUCTION OF THE SIDEWALK AS WELL AS FOR THE INSTALLATION OF THE BARRIER WALL.

E. TOTAL PROJECT AREA: 0.80 ACRES

TOTAL AREA TO BE DISTURBED: 0.80 ACRES

F. RUNOFF DATA

POST-CONSTRUCTION RUNOFF WILL EQUAL PRE-CONSTRUCTION RUNOFF.

G. SOIL DATA

BASED ON THE LATEST USDA SOIL CONSERVATION SERVICE (SCS) SOIL SURVEY FOR PINELLAS COUNTY, FLORIDA. MADE LAND AND URBAN LAND - ASTATULA COMPLEX AND MYAKKA COMPLEX.

H. DRAINAGE AREA (ATTACH DRAINAGE MAP OR PROVIDE DRAINAGE AREA IN ACRES)

THE OVERALL CONTRIBUTING WATERSHED IS 2.08 ACRES, WHICH IS URBAN FROM DOUGLAS AVENUE TO BETTY LANE AND PASTURE FROM BETTY LANE TO KING'S HWY

I. RECEIVING WATERS

THE RECEIVING BODY OF WATER IS STEPHENSON CREEK & SPRING BRANCH CREEK.

J. WETLANDS AREAS

NO WETLAND IMPACTS.

II. CONTROLS

ALL CONTROLS SHALL BE CONSISTENT WITH PERFORMANCE STANDARDS FOR EROSION AND SEDIMENT CONTROL AND STORM-WATER TREATMENT FET FORTH IN s.62-40.432, F.A.C., THE APPLICABLE STORM-WATER OR ENVIRONMENTAL RESOURCE PERMITTING REQUIREMENTS OF THE DEPARTMENT OR A WATER MANAGEMENT DISTRICT AND THE GUIDELINES CONTAINED IN THE FLORIDA DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (DEP, 1988) AND ANY SUBSEQUENT AMENDMENTS.

A. SEQUENCE OF MAJOR ACTIVITIES

PREPARE SITE AND STABILIZED CONSTRUCTION ENTRANCE. INSTALL PERIMETER SEDIMENT AND EROSION CONTROLS.

INSTALL DOUBLE ROW OF FILTER FABRIC AND TURBIDITY BARRIERS IN PREPARATION FOR CONSTRUCTION OF GRAVITY WALL AND SIDEWALK CONSTRUCTION. CLEARING AND GRUBBING.

WHEN CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE EROSION PROTECTION DEVICES AND CONSTRUCTION ENTRANCE AS REQUIRED.

B. EROSION AND SEDIMENT CONTROL CONSTRUCTION ACTIVITIES

THE CONTRACTOR IS REQUIRED TO REVIEW THE SITE SPECIFIC EROSION CONTROL PLAN. THE CONTRACTOR MAY ALSO BE REQUIRED TO MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS OR SITE CONDITIONS. CONTRACTOR WILL COMPLY WITH E & S PLAN. ANY MODIFICATIONS TO THIS PLAN MUST BE SIGNED BY A PROFESSIONAL ENGINEER REPRESENTING THE CONTRACTOR. THE EROSION CONTROL DEVICES, DETAILS, AND NOTES APPLICABLE TO THESE ACTIVITIES ARE SPECIFIED IN THE PLANS. THE PROJECT ENGINEER IS RESPONSIBLE FOR DETERMINING IF ADDITIONAL CONTROLS ARE THE PROJECT ENGINEER MAY REQUIRE ADDITIONAL CONTROLS TO MEET STANDARDS AND REGULATIONS.

PERFORM DAILY INSPECTION OF EROSION AND SEDIMENT CONTROLS AFTER EVERY 1/2" RAINFALL

REMOVE ALL SEDIMENTS THAT HAVE MIGRATED OFF SITE AS DIRECTED BY THE ENGINEER

C. STABILIZATION PRACTICES

DURING CONSTRUCTION THE CONTRACTOR WILL PROVIDE STABILIZATION FOR AREAS WHICH HAVE BEEN CLEARED AND NOT REWORKED WITHIN FOURTEEN (14) CALENDAR DAYS. THE CONTRACTOR MAY UTILIZE TEMPORARY SEEDING OR TEMPORARY SODDING IN ACCORDANCE WITH SECTION 570 OF THE "FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

- _____ TEMPORARY SODDING
- _____ TEMPORARY GRASSING
- _____ X PERMANENT SODDING OR SEEDING
- _____ PRESERVATION OF NATURAL RESOURCES
- _____ BUFFER ZONES

D. STRUCTURAL PRACTICES

- _____ X SEDIMENT BARRIERS (LF)
- _____ X SYNTHETIC BALES (LF)
- _____ ARTIFICIAL COVERINGS/ ROLLED EROSION CONTROL PRODUCTS (SY)
- _____ X INLET PROTECTION SYSTEM (EA)
- _____ LITTER REMOVAL AND DISPOSAL (AC)
- _____ MOWING (AC)
- _____ SLOPE DRAINS (TEMPORARY)/ RUNOFF CONTROL STRUCTURES (LF)
- _____ SOIL TRACKING PREVENTION DEVICE (EA)
- _____ SEDIMENT BASINS/CONTAINMENT SYSTEMS (EA)
- _____ SEDIMENT BASIN/ CONTAINMENT SYSTEM CLEANOUT (EA)
- _____ FLOATING TURBIDITY BARRIER (LF)
- _____ X STAKED TURBIDITY BARRIER (LF)
- _____ CHEMICAL TREATMENT - POWDERED (SY)
- _____ CHEMICAL TREATMENT (FLOC LOGS, DRUMS OF PRODUCT) (EA)
- _____ OTHER

E. DESCRIPTION OF STORM WATER MANAGEMENT

STORM WATER COLLECTION WILL BE PROVIDED WITHIN THE EXISTING ROADSIDE SWALES FOR BOTH CONVEYANCE AND BENEFICIAL TREATMENT. THE DESIGNATED OUTFALL FOR THIS SIDEWALK PROJECT IS STEPHENSON'S CREEK & SPRING BRANCH CREEK.

F. WASTE DISPOSAL

THE CONTRACTOR SHALL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES. ANY CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER. NO SOLID MATERIALS INCLUDING BUILDING & CONSTRUCTION MATERIALS SHALL BE DISCHARGED TO WETLANDS OR BURIED ON SITE. ALL WASTE MATERIAL WILL BE COLLECTED AND STORED IN DUMPSTERS PER LOCAL SOLID WASTE REGULATIONS. ALL TRASH AND

CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF TWICE A WEEK OR MORE OFTEN IF NECESSARY, AND THE TRASH WILL BE HAULED TO THE APPROPRIATE COUNTY LOCATION FOR DUMPING.

G. OFFSITE VEHICLE TRACKING

STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREETS WILL BE CLEANED AS DIRECTED BY THE CONSTRUCTION INSPECTOR AND ENGINEER TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM OR TO THE SITE WILL BE COVERED WITH A TARPULIN AT ALL TIMES.

H. SANITARY WASTE

FDOT STANDARD SPEC. FOR ROAD AND BRIDGE CONSTRUCTION" SECTION 7 - 6 "SANITARY PROVISIONS. "THE CONTRACTOR SHALL PROVIDE AND MAINTAIN, IN A NEAT AND SANITARY CONDITION, SUCH ACCOMMODATION FOR THE USE OF HIS EMPLOYEES AS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS AND REGULATIONS OF THE STATE AND LOCAL BOARDS OF HEALTH. COMMIT NO PUBLIC NUISANCE."

I. HAZARDOUS WASTE

THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE COUNTY IN WRITING IF ANY HAZARDOUS WASTE MATERIAL IS ENCOUNTERED DURING SITE INVESTIGATION OR CONSTRUCTION.

THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR NOTIFYING THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) WITHIN 24 HOURS OF THE DISCOVERY.

ALL HAZARDOUS WASTE MATERIALS, IF ENCOUNTERED, WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND FEDERAL REGULATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

IN CASE OF DISPOSING ANY HAZARDOUS WASTE MATERIAL FOLLOWING LOCAL, STATE, AND FEDERAL REGULATIONS, A COPY OF DISPOSAL MANIFEST HAS TO BE PROVIDED TO THE COUNTY IN TIMELY FASHION.

PERMITTEE CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

IVAN J. FERNANDEZ, P.E., MANAGER _____ DATE _____
 PLANNING AND DESIGN SECTION, ENGINEERING & TECHNICAL SUPPORT DIVISION PINELLAS COUNTY DEPT. OF ENVIRONMENT AND INFRASTRUCTURE (DEI) APPLICANT-AUTHORIZED AGENT FOR THE PINELLAS COUNTY BOARD OF COUNTY COMMISSIONERS

CONTRACTOR CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.

 GENERAL CONTRACTOR _____ DATE _____

 ADDRESS _____ DATE _____

DESIGNED	XXX		DIVISION OF ENGINEERING AND TECHNICAL SUPPORT 14 S. FT. HARRISON AVE., CLEARWATER, FL 33756	PROJECT:	CHEROKEE DRIVE	DESCRIPTION: STORM WATER POLLUTION PREVENTION PLAN	APPROVED BY:	_____	DATE:	2013/2014
DRAWN	XXX			FROM DUHME RD TO 112TH ST	_____		_____			
CHECKED	XXX			FLA. REG. NO XXXX-XX	_____		DATE	_____		
REV. NO.	DATE	DESCRIPTION	REV. BY					SHEET: 27 OF 37		

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J. WATER QUALITY MONITORING (MIXING ZONES)

THE WATER THAT WILL BE SAMPLED FOR STATE WATER QUALITY STANDARDS FOR CONSTRUCTION ACTIVITIES PROHIBIT A TURBIDITY INCREASE OF GREATER THAN 29 NTU'S ABOVE AMBIENT CONDITIONS AT THE COMPLIANCE LOCATION OF THE MIXING ZONES. TO MAINTAIN THIS STANDARD, TURBIDITY MONITORING SHALL OCCUR DURING ALL IN-WATER CONSTRUCTION ACTIVITIES AT EACH COMPLIANCE AND BACKGROUND STATION. THE FOLLOWING PROCEDURE SHALL BE USED:

FREQUENCY: TWICE A DAY, AT LEAST 4 HOURS APART DURING FREQUENCY OF ACTUAL CONSTRUCTION OPERATIONS.

LOCATIONS: ALL STATIONS SHALL BE SAMPLED AT 2 FEET ABOVE LOCATIONS THE BOTTOM, AT MID-DEPTH, AND AT THE SURFACE, OR AS DIRECTED BY PERMITTING AGENCIES. IF WATER IS LESS THAN THREE FEET DEEP, ONLY MID-DEPTH SAMPLES ARE REQUIRED.

BACKGROUND: 500 FEET UP-CURRENT FROM THE CONSTRUCTION BACKGROUND ACTIVITY AND/OUTSIDE OF ANY TURBIDITY PLUME FROM THE CONSTRUCTION ACTIVITY.

COMPLIANCE: 300 FEET DOWN CURRENT FROM THE CONSTRUCTION COMPLIANCE ACTIVITY WITHIN ANY VISIBLE TURBIDITY PLUME, OR AS DIRECTED BY PERMITTING AGENCIES.

METHOD: ALL SAMPLES SHALL BE COLLECTED WITH A KEMMERER, VAN DORN METHOD, OR SIMILAR SAMPLER WHICH IS DESIGNED TO COLLECT IN SITU WATER SAMPLES.

REPORTING: ALL MONITORING DATA SHALL BE SUBMITTED WITHIN ONE REPORTING WEEK OF ANALYSIS WITH DOCUMENTS CONTAINING THE FOLLOWING INFORMATION:

1. PERMIT NUMBER
2. DATES OF SAMPLING AND ANALYSIS
3. LOCATION OF SAMPLE (I.E., STATION AND WATER COLUMN LOCATION)
4. A STATEMENT DESCRIBING THE METHODS USED IN COLLECTION, HANDLING,
5. STORAGE, AND ANALYSIS OF THE SAMPLES
6. A MAP INDICATING THE SAMPLING LOCATIONS
7. STATEMENT, BY THE INDIVIDUAL RESPONSIBLE FOR IMPLEMENTATION OF THE SAMPLING PROGRAM, CONCERNING THE AUTHENTICITY, PRECISION, LIMITS OF DETECTION AND ACCURACY OF DATA.

MONITORING REPORTS SHALL INCLUDE INFORMATION ON THE GENERAL ANTECEDENT WEATHER CONDITIONS.

IF MONITORING REVEALS VIOLATIONS OF THE STATE WATER QUALITY STANDARD FOR TURBIDITY, CONSTRUCTION ACTIVITIES SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL CORRECTIVE MEASURES HAVE BEEN TAKEN AND TURBIDITY HAS RETURNED TO ACCEPTABLE LEVELS. ANY SUCH OCCURRENCE SHALL ALSO BE IMMEDIATELY REPORTED TO THE REGULATORY AGENCIES. IN THE EVENT THAT STATE WATER QUALITY STANDARDS ARE NOT ATTAINED, THE CONTRACTOR SHALL IMPLEMENT A CONTINGENCY PLAN WHICH COMPLIES WITH THE PROJECT SWFWMD/FDEP ERP AND PINELLAS COUNTY NPDES REQUIREMENTS AT NO ADDITIONAL COST TO THE COUNTY. ANY FINES SHALL BE RESPONSIBILITY OF THE CONTRACTORS.

K. APPROVED STATE, LOCAL PLANS, OR STORM WATER PERMITS
NONE AT THE TIME OF PERMITTING

III. MAINTENANCE

A. ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTION AND MAINTENANCE OF ALL PERMANENT AND TEMPORARY EROSION CONTROL DEVICES THROUGHOUT ALL CONSTRUCTION PHASES OF THE PROJECT. MAINTENANCE SHALL BE IN ACCORDANCE WITH PINELLAS COUNTY PUBLIC WORKS STANDARD TECHNICAL SPECIFICATIONS FOR ROADWAY AND RELATED CONSTRUCTION, AND THE PROJECT CONSTRUCTION CONTRACT.

B. INSPECTION

THE COUNTY INSPECTOR SHALL BE RESPONSIBLE FOR COMPLETING THE PINELLAS COUNTY PUBLIC WORKS NPDES / SWPPP CONSTRUCTION INSPECTION REPORT AFTER ANY 1/2" RAINFALL OR WEEKLY, IF NO RAIN EVENT OCCURRED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY RAIN FALL. THE COUNTY INSPECTOR SHALL ALSO COMPLETE THE PINELLAS COUNTY PUBLIC WORKS NPDES COMPLIANCE CHECKLIST FOR CONSTRUCTION SITES.

C. NON-STORM WATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

- WATER FROM WATER LINE FLUSHING
- PAVEMENT WASH WATERS (WHERE NO SPILL OR LEAKS OF VEHICLE AND HAZARDOUS MATERIALS HAVE OCCURRED)
- UNCONTAMINATED GROUNDWATER FROM DE-WATERING ACTIVITIES

ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE OR AS DIRECTED BY THE ENGINEER. IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, DEATERING SHOULD CEASE IMMEDIATELY AND THE ENGINEER WILL BE CONTACTED.

D. MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL HANDLING PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF:

1. THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHALL BE FOLLOWED ON-SITE DURING THE CONSTRUCTION PROJECT.

- STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB ON SITE.
- ALL MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR ORIGINAL MANUFACTURER'S LABELED CONTAINERS UNDER A ROOF OR OTHER CONTAINED ENCLOSURE.
- SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- WHENEVER POSSIBLE, ALL OF A PRODUCT SHALL BE USED BEFORE DISPOSING OF THE CONTAINER. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED.
- THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON-SITE.

2. THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

- PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RE-SEALABLE.
- SECONDARY CONTAINMENT SHALL BE PROVIDED FOR ALL OPENED CONTAINERS. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE KEPT ON-SITE ON THE CONSTRUCTION OFFICE TRAILER.
- IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS OR LOCAL STATE RECOMMENDED METHODS OF PROPER DISPOSAL SHALL BE FOLLOWED.
- THE CONTRACTOR MUST IDENTIFY A DESIGNATED FUEL TANK STORAGE AREA, AWAY FROM DRAINAGE STRUCTURES, PONDS, BASINS, AND WETLANDS, WITH SECONDARY CONTAINMENT (SPILL COLLECTION).

3. CONCRETE TRUCKS

- CONTRACTOR SHALL DESIGNATE AN AREA AWAY FROM DRAINAGE STRUCTURES, PONDS, BASINS, AND WETLANDS FOR DISCHARGE OF SURPLUS CONCRETE OR DRUM WASH WATER AND SHALL INSTALL A CONTAINMENT BERM AROUND THIS AREA TO PREVENT RUNOFF TO THE REMAINDER OF THE SITE.
- HARD DEBRIS SHALL BE DISPOSED OF BY CONTRACTOR UPON COMPLETION OF THE PROJECT.
- DISPOSAL OF CONCRETE SLURRY DIRECTLY INTO PUBLIC DRAINAGE SYSTEMS IS A VIOLATION OF THE "ILLICIT DISCHARGE" PROVISION OF THE PINELLAS COUNTY LAND DEVELOPMENT CODE. SECTION 58-239 OF THE PINELLAS COUNTY CODE AUTHORIZES PENALTIES OF UP TO \$10,000.00 FOR EACH OFFENCE.

4. SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIALS MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP.

- MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION CLEANUP SUPPLIES.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.
- THE SPILL PREVENTION PLAN WILL BE PREPARED BY THE CONTRACTOR AND KEPT IN THE CONSTRUCTION OFFICE TRAILER AND WILL INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE ARE OTHERS. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED. ALL SPILLS AND RESPONSES WILL BE REPORTED TO THE APPROPRIATE AGENCY.
- THE SITE SUPERINTENDENT WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ON SITE.
- USE AND CHARACTERISTICS OF FUEL OR CHEMICAL STORAGE TANK ON SITE SHALL COMPLY WITH ALL RELATED FEDERAL, STATE, AND LOCAL REGULATIONS. STORAGE TANKS MUST BE LOCATED AS FAR AS POSSIBLE FROM ANY DRAINAGE STRUCTURES, DITCHES, AND/OR SURFACE WATERS. IN ADDITION, THE CONTRACTOR MUST PROVIDE A SECONDARY CONTAINMENT WITH A LINER CHEMICALLY RESISTANT TO THE FUEL OR CHEMICAL STORED ON SITE. THE SECONDARY CONTAINMENT MUST BE SIZED TO CONTAIN MINIMUM OF ONE AND A HALF TIME THE TOTAL CAPACITY OF STORAGE TANK BEING USED. CONTRACTOR HAS TO PROVIDE A DAILY INSPECTION LOG FOR THE SECONDARY CONTAINMENT WITH INDICATION OF DATE, INSPECTORS NAME AND INSPECTION REPORT. FURTHERMORE, ANY CONTAMINATION HAS TO BE IMMEDIATELY CONTAINED AND THE COUNTY INSPECTOR MUST BE NOTIFIED OF THE NATURE AND EXTEND OF THE CONTAMINATION.

PERMITTEE CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

IVAN J. FERNANDEZ, P.E., MANAGER
PLANNING AND DESIGN SECTION, ENGINEERING & TECHNICAL SUPPORT DIVISION PINELLAS COUNTY DEPT. OF ENVIRONMENT AND INFRASTRUCTURE (DEI) APPLICANT-AUTHORIZED AGENT FOR THE PINELLAS COUNTY BOARD OF COUNTY COMMISSIONERS

DATE

CONTRACTOR CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.

GENERAL CONTRACTOR

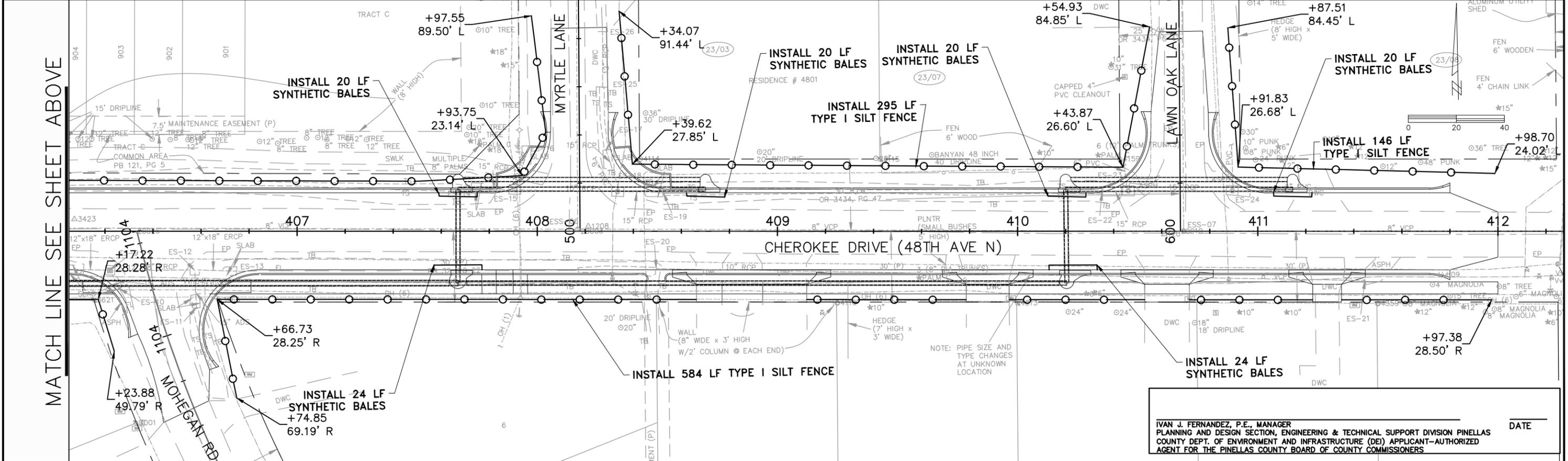
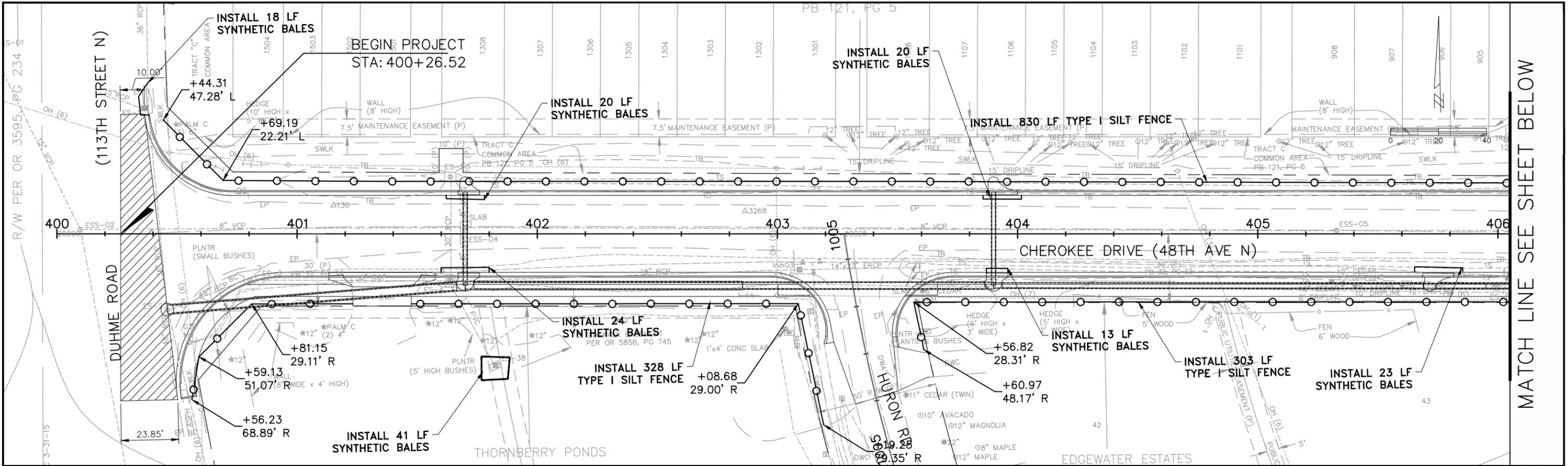
DATE

ADDRESS

DATE

DESIGNED	XXX		DIVISION OF ENGINEERING AND TECHNICAL SUPPORT 14 S. FT. HARRISON AVE., CLEARWATER, FL 33756	PROJECT: CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST	DESCRIPTION: STORM WATER POLLUTION PREVENTION PLAN	APPROVED BY:	DATE:
DRAWN	XXX					XXXX XXXXXXXX, P.E.	2013/2014
CHECKED	XXX					FLA. REG. NO XXXX-XX	005267A
REV. NO.	DATE	DESCRIPTION	REV. BY			SHEET:	28 OF 37

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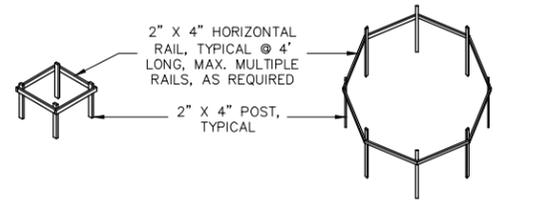
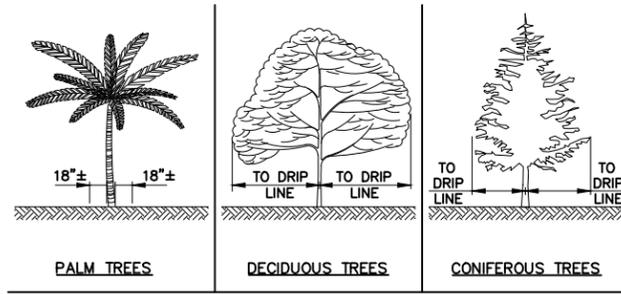
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IVAN J. FERNANDEZ, P.E., MANAGER
 PLANNING AND DESIGN SECTION, ENGINEERING & TECHNICAL SUPPORT DIVISION PINELLAS COUNTY DEPT. OF ENVIRONMENT AND INFRASTRUCTURE (DEI) APPLICANT-AUTHORIZED AGENT FOR THE PINELLAS COUNTY BOARD OF COUNTY COMMISSIONERS

DATE _____

DESIGNED: LDS	 DIVISION OF ENGINEERING AND TECHNICAL SUPPORT 14 S. FT. HARRISON AVE., CLEARWATER, FL 33756	PROJECT: CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST	DESCRIPTION: EROSION & SEDIMENT CONTROL PLANS	APPROVED BY: _____	DATE: 2013/2014
DRAWN: LDS		FLA. REG. NO XXXX-XX	DATE _____	PROJECT NO. 005267A	
CHECKED: JW		DATE _____	SHEET: 29 OF 37		

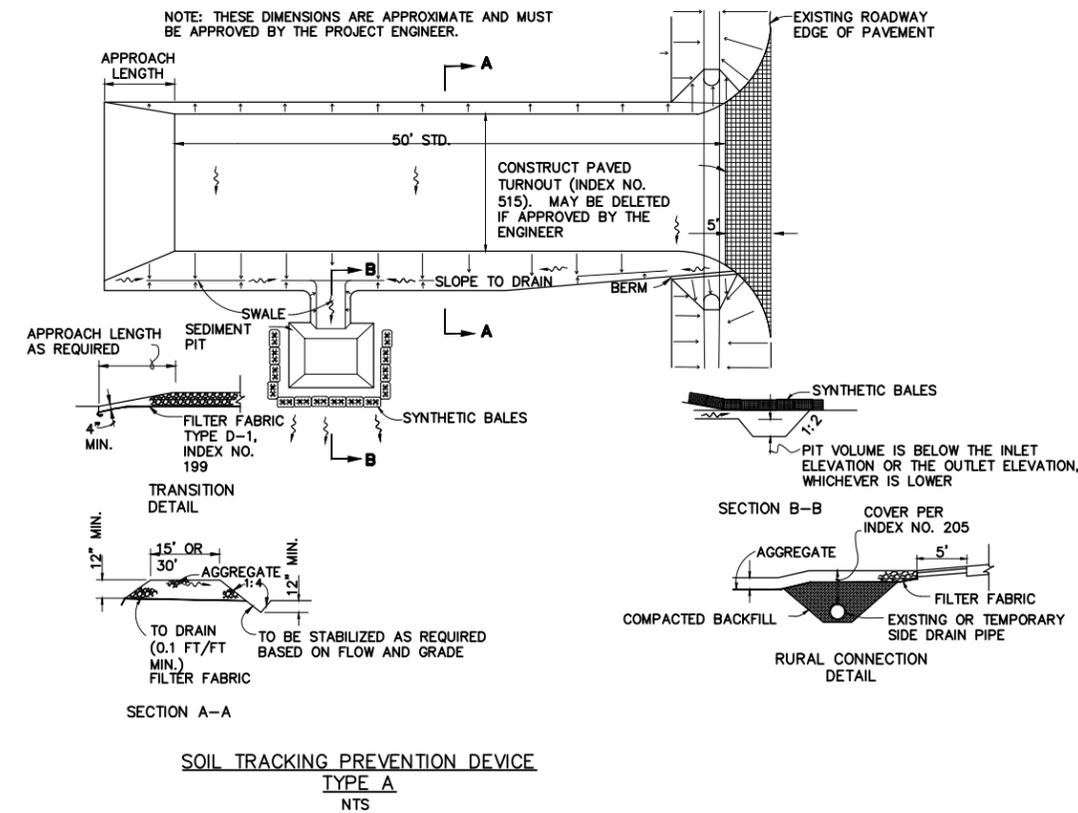
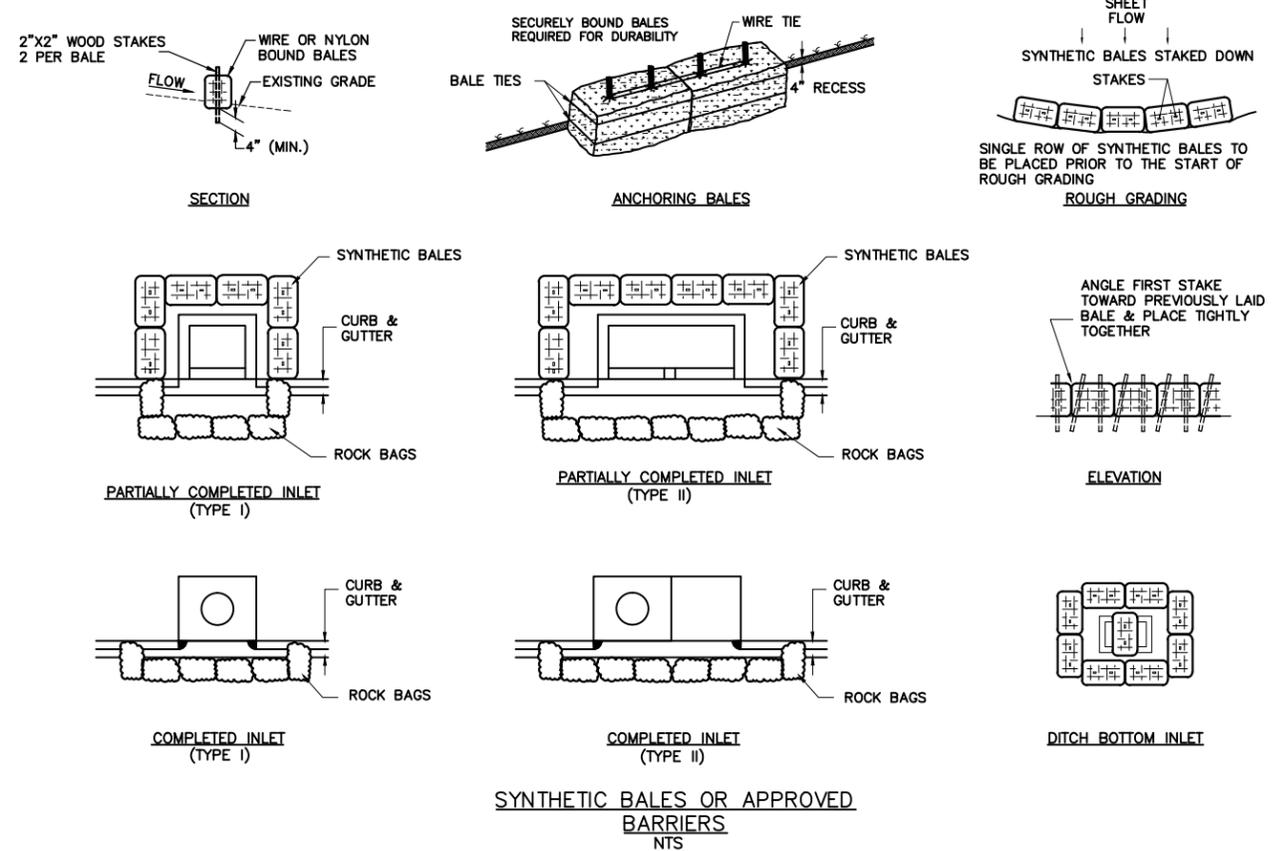
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PALMS AND SMALL TREES LARGE TREES AND BUSHES

- NOTES:**
1. NO TRUCKS OR HEAVY EQUIPMENT ALLOWED WITHIN BARRIERS, ONLY HAND LABOR ALLOWED.
 2. NO CONSTRUCTION MATERIALS, SOIL DEPOSITS, OR SOLVENTS SHALL BE ALLOWED WITHIN BARRIERS.
 3. BARRIERS ARE TO BE IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN TREE AREA.
 4. BARRIERS ARE TO STAY IN PLACE UNTIL ALL PAVING, CONSTRUCTION, AND HEAVY EQUIPMENT IS REMOVED FROM THE AREA.

TREE PROTECTION BARRIERS DETAIL NTS



- SOIL TRACKING PREVENTION DEVICE 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 THROUGH 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 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 NOT SUITABLE.
 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'X50'=100 FT.³
 30'X50'=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 0.2% MINIMUM AND A 1.0% MAXIMUM GRADE ALONG THE STPD AND TO THE SEDIMENT PIT.
 7. MITERED END SECTIONS ARE NOT REQUIRED WHEN THE SIDE DRAIN 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 OFFSET TRACKING, THE STPD SHALL BE RINSED (DAILY WHEN IN USE) TO MOVE ACCUMULATED MUD DOWNWARD THROUGH THE STONE. ADDITIONAL STABILIZATION OF THE VEHICULAR ROUTE LEADING TO THE STPD MAY BE REQUIRED TO LIMIT 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 M.E.S. 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 BALES SHALL BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR HAY OR STRAW BALED, EA. SILT FENCE SHALL BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE, L.F.
 10. THE NOMINAL SIZE OF A STANDARD STPD IS 15'X50' UNLESS OTHERWISE SHOWN IN THE PLANS. IF THE VOLUME OF ENTERING AND EXITING 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.

DESIGNED	XXX		
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REV. NO.	DATE	DESCRIPTION	REV. BY

Pinellas County
 ENVIRONMENT AND INFRASTRUCTURE

DIVISION OF ENGINEERING AND TECHNICAL SUPPORT
 14 S. FT. HARRISON AVE., CLEARWATER, FL 33756

PROJECT: CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST

DESCRIPTION: EROSION & SEDIMENT CONTROL DETAILS

APPROVED BY: _____ DATE: _____
 XXXX XXXXXXXX, P.E.
 FLA. REG. NO XXXX-XX

DATE: 2013/2014
 PROJECT NO. 005267A
 SHEET: 30 OF 37

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1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND THE TRANSPORTATION OF SEDIMENT TO SURFACE DRAINS AND OUTFALLS USING BEST MANAGEMENT PRACTICES. REFER TO CONSTRUCTION PLANS, DETAILS, SPECIFICATIONS AND APPROVED PERMITS FOR DETAILS. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH ONE HALF THE HEIGHT ON AN EROSION DEVICE OR AS DIRECTED BY THE ENGINEER.
2. DURING THE CONSTRUCTION OF DRAINAGE STRUCTURES, AND OTHER STRUCTURES REQUIRING EXCAVATION, THE CONTRACTOR SHALL PLACE APPROVED BARRIERS OR OTHER APPROVED DEVICES AROUND SUCH STRUCTURES TO PREVENT EROSION AND THE MIGRATION OF SEDIMENT TO POINTS OUTSIDE THE CONSTRUCTION AREA. THE APPROVED BARRIERS OR OTHER APPROVED DEVICES SHALL BE PLACED IN ACCORDANCE WITH REQUIREMENTS OF F.D.O.T. INDEX NO. 102 OR AS DIRECTED BY THE ENGINEER.
3. REQUIRED EROSION CONTROL MEASURES MUST REMAIN INTACT THROUGHOUT CONSTRUCTION. FAILURE TO INSTALL OR PROPERLY MAINTAIN REQUIRED EROSION CONTROL WILL RESULT IN ENFORCEMENT ACTION. ALL EROSION CONTROL MEASURES, SAND, SILT, AND DEBRIS SHALL BE REMOVED FROM ALL DRAINAGE PIPES AND STRUCTURES AFTER CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO COUNTY FINAL WALK-THROUGH.
4. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SILT/TURBIDITY BARRIERS TO CONTROL EROSION AND SEDIMENT FROM TAKING PLACE OUTSIDE THE PROJECT LIMITS. THE SILT/TURBIDITY BARRIERS SHALL BE PLACED IN ACCORDANCE WITH REQUIREMENTS OF F.D.O.T. INDEX NO. 102 & 103, AND "PINELLAS COUNTY DEI STANDARD TECHNICAL SPECIFICATIONS FOR ROADWAY RELATED CONSTRUCTION" SECTION 104, THROUGHOUT THE DURATION OF THE PROJECT AND ALL ASPECTS OF CONSTRUCTION. ALL DAMAGED OR INEFFECTIVE EROSION CONTROL DEVICES SHALL BE REPLACED AT NO ADDITIONAL COST TO THE COUNTY.
5. EROSION CONTROL PLAN - ANY MODIFICATIONS TO THIS PLAN MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REPRESENTING THE CONTRACTOR. THESE MODIFICATIONS MUST BE APPROVED BY THE COUNTY AND THE PERMITTING AGENCY. NO CONTRACT DELAYS WILL BE ALLOWED FOR SUCH MODIFICATIONS OR APPROVALS.
6. OUTFALL PROTECTION - PROJECT PIPE OR DITCH DISCHARGES INTO OFF-SITE OUTFALLS SHALL BE INSPECTED DAILY FOR POSSIBLE SEDIMENT BUILDUP OR TRANSPORT. OUTFALLS SHALL BE PROTECTED THROUGH USE OF EROSION CONTROL FEATURES AS NECESSARY TO CONTAIN ANY SEDIMENT LOSS TO THE IMMEDIATE AREA OF THE PROJECT. ANY SEDIMENT BUILDUP OR TRANSPORT OFF-SITE SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMEDY. THE CONTRACTOR SHALL USE APPROPRIATE MEASURES AS DIRECTED BY THE PROJECT ENGINEER FOR OUTFALL PROTECTION.
7. APPROVED BARRIERS (OR OTHER APPROVED SEDIMENT CONTROL DEVICES) - THESE SHALL BE PLACED AT THE BASE OF ANY SLOPE WHERE A RAINFALL EVENT COULD ERODE A SLOPE AND TRANSPORT SEDIMENTS OFF-SITE. APPROVED BARRIERS SHALL BE DOUBLE STAKED IN ACCORDANCE WITH F.D.O.T. INDEX NO. 102. ANY DAMAGED OR INEFFECTIVE APPROVED BARRIERS ARE TO BE REPLACED WITH NEW ONES. THE LOCATION AND INSTALLATION OF APPROVED BARRIERS SHALL BE AS DIRECTED BY THE PROJECT ENGINEER.
8. BACK OF SIDEWALK INLETS OR MEDIAN INLETS - THESE SHALL BE PROTECTED FROM SEDIMENT INTAKE UNTIL PROJECT IS COMPLETE. ELEVATION OF GROUND OUTSIDE INLET TOP SHALL NOT BE HIGHER THAN INLET TOP WITHOUT EROSION PROTECTION. APPROVED BARRIERS OR OTHER APPROVED SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AROUND INLET TOP. A SECOND ROW OF APPROVED BARRIERS OR OTHER APPROVED SEDIMENT CONTROL DEVICES SHALL BE PLACED AROUND INLET APPROXIMATELY 24" OUTSIDE FIRST ROW. BETWEEN ROWS THERE SHALL BE A DEPRESSION TO ACT AS A SEDIMENT BASIN. COMPLETED INLETS IN PAVED AREAS SHALL ALSO BE PROTECTED WITH A SINGLE LINE OF APPROVED BARRIERS OR OTHER APPROVED SEDIMENT CONTROL DEVICES TO PREVENT SEDIMENT INTAKE FROM OTHER AREAS.
9. STOCKPILED MATERIALS SHALL BE PROTECTED BY COVER, APPROVED BARRIERS OR OTHER APPROVED SEDIMENT CONTROL DEVICES.
10. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 3 DAYS AFTER ½" RAIN EVENT DISTURBANCE.
11. SEDIMENT TRAPPING MEASURES: SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, FILTER FENCES, BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT INTO WATERS OF THE STATE OR NEIGHBORING PROPERTIES SHALL BE INSTALLED, CONSTRUCTED OR, IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS.
12. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE NECESSARY DEWATERING PERMITS FROM THE LOCAL WATER MANAGEMENT DISTRICT OR OTHER REGULATORY AGENCY.
13. A DEWATERING PLAN MUST BE SUBMITTED AND APPROVED BY THE ENGINEER PRIOR TO DISCHARGE.
14. WHERE PUMPS ARE TO BE USED TO REMOVE TURBID WATER FROM THE CONSTRUCTION AREA, THE WATER SHALL BE TREATED TO REDUCE TURBIDITY TO STATE WATER QUALITY STANDARDS PRIOR TO DISCHARGE TO THE WETLANDS. TREATMENT METHODS INCLUDE, FOR EXAMPLE, TURBID WATER BEING PUMPED INTO GRASSED SWALES OR APPROPRIATE VEGETATED AREAS (OTHER THAN UPLAND PRESERVATION AREAS AND WETLAND BUFFERS), SEDIMENTS BASINS, OR AREAS CONFINED BY AN APPROPRIATE ENCLOSURE SUCH AS TURBIDITY BARRIERS, AND KEPT CONFINED UNTIL ITS TURBIDITY LEVEL MEETS STATE WATER QUALITY STANDARDS.
15. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION, OR OTHER ACCEPTABLE METHODS.
16. WHERE APPLICABLE, SOIL TRACKING PREVENTION DEVICES SHALL BE PROVIDED AND MAINTAINED PER F.D.O.T. INDEX NO. 106.
17. THE EROSION CONTROL DEVICE QUANTITIES SHOWN ON THE BID FORMS ARE ESTIMATES OF THE ACTUAL QUANTITIES THAT MAY BE ENCOUNTERED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SPECIFY ACTUAL QUANTITIES AND COSTS ASSOCIATED WITH THIS SPECIFIC EROSION CONTROL IMPLEMENTATION SCHEDULE. EROSION CONTROL ITEMS MAY BE ADDED OR DELETED FROM THE PAY ITEM LIST AS THE EROSION CONTROL IMPLEMENTATION SCHEDULE PROVIDED BY THE CONTRACTOR IS MODIFIED TO MEET SITE SPECIFIC CONDITIONS.
18. ALL EROSION CONTROL FENCES, BARRIERS, AND SILTATION DEVICES SHALL BE ERECTED PRIOR TO ANY LAND ALTERATIONS, SHALL BE MAINTAINED IN GOOD WORKING ORDER DURING CONSTRUCTION, AND REMOVED FOLLOWING SOIL STABILIZATION AND FINAL DRESSING. STOCKPILE AREAS SHALL INCLUDE SILT FENCING AROUND THE PERIMETER.
19. THE CONTRACTOR SHALL NOT RESTRICT OR BLOCK THE EXISTING DRAINAGE FLOW OVERLAND OR WITHIN RESHAPED SWALES. FLOW WITHIN EXISTING DRAINAGE PIPES SHALL BE MAINTAINED AT ALL TIMES. STORMWATER WILL BE CONVEYED VIA EXISTING SWALES, DITCHES, OR PROPOSED DITCHES, EXISTING AND PROPOSED STORM SEWERS.
20. THERE IS TO BE NO DISCHARGE (I.E. PUMPING, SHEET FLOW, SWALE, DITCH, ETC.) INTO EXISTING DITCHES OR CANALS WITHOUT THE USE OF SETTLING PONDS. IF THE CONTRACTOR DESIRES TO DISCHARGE INTO EXISTING DITCHES OR CANALS A SETTLING POND PLAN PREPARED BY THE CONTRACTOR MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD AND LOCAL REGULATORY AGENCY PRIOR TO CONSTRUCTION.
21. DURING DEWATERING OPERATIONS, THE CONTRACTOR SHALL NOT DISCHARGE DIRECTLY TO RECEIVING WATERS, EXISTING CONVEYANCES TO RECEIVING WATERS, OR WETLAND SYSTEMS. TEMPORARY SEDIMENT BASINS, TRAPS, OR SILTATION REDUCTION DEVICES SHALL BE UTILIZED TO COLLECT THE DISCHARGE FROM DEWATERING ACTIVITIES TO ELIMINATE THE POTENTIAL FOR OFF-SITE SEDIMENT TRANSPORT AND TO INSURE THAT DIRECT DISCHARGE DOES NOT OCCUR.
22. BANKS SHALL BE PROTECTED FROM EROSION OR COLLAPSE DURING CONSTRUCTION. BANK PROTECTION MATERIAL SHALL BE CAREFULLY PLACED FROM THE BANK AND NOT DUMPED FROM ABOVE IN AN UNCONTROLLED MANNER. EROSION CONTROL FABRIC SHALL BE USED FOR EROSION PROTECTION WHERE SOD WILL NOT HOLD OR BECOME ESTABLISHED IN TIME TO PROTECT THE BANKS. UNLESS OTHERWISE SPECIFIED IN THE PLANS, UPON COMPLETION OF CONSTRUCTION, ALL BANKS AND WATERWAYS SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION CONFIGURATION AND PROTECTED FROM EROSION.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING POND FILTRATION SYSTEMS FROM BEING CLOGGED UNTIL PINELLAS COUNTY DETERMINES THE CONSTRUCTION IS COMPLETE. IF FILTER MATERIAL IS CONTAMINATED, IT SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

DESIGNED	XXX		
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DIVISION OF ENGINEERING AND TECHNICAL SUPPORT

14 S. FT. HARRISON AVE., CLEARWATER, FL 33756

PROJECT: CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST

DESCRIPTION: EROSION & SEDIMENT CONTROL DETAILS

APPROVED BY: _____ DATE: _____
 XXXX XXXXXXXX, P.E.
 FLA. REG. NO XXXX-XX

DATE: 2013/2014
 PROJECT NO. 005267A
 SHEET: 31 OF 37

TRAFFIC CONTROL PHASING NOTES:

INITIAL PHASE

1. PLACE ADVANCE WARNING SIGNS FOR PROJECT LIMITS.
2. PLACE EROSION CONTROL DEVICES.

PHASE I (SINGLE-LANE CLOSURE)

THE INTENT OF THIS PHASE IS TO PERFORM WORK WHERE ANY VEHICLE, EQUIPMENT, WORKERS, OR THEIR ACTIVITIES ENCROACH ON OR WITHIN 2FT OF THE EXISTING OUTSIDE TRAVEL LANE.

1. PLACE ADVANCE WARNING SIGNS FOR THE ACTIVE WORK AREA.
2. PLACE TRAFFIC CONTROL DEVICES (BARRICADE, VERTICAL PANEL, AND/OR DRUMS) PER FDOT INDEXES 603 AND 625. PLACE PEDESTRIAN CONTROL SIGNS AND DEVICES PER INDEX 660.
3. PERFORM WORK ACTIVITIES SUCH AS, BUT NOT LIMITED TO, INSTALLATION OF THE FOUNDATION FOR THE DYNAMIC MESSAGE SIGNS AND SUPPORTS, CCTV CAMERAS, AND VIDEO DETECTION SYSTEMS. CONSTRUCT SIDEWALK.

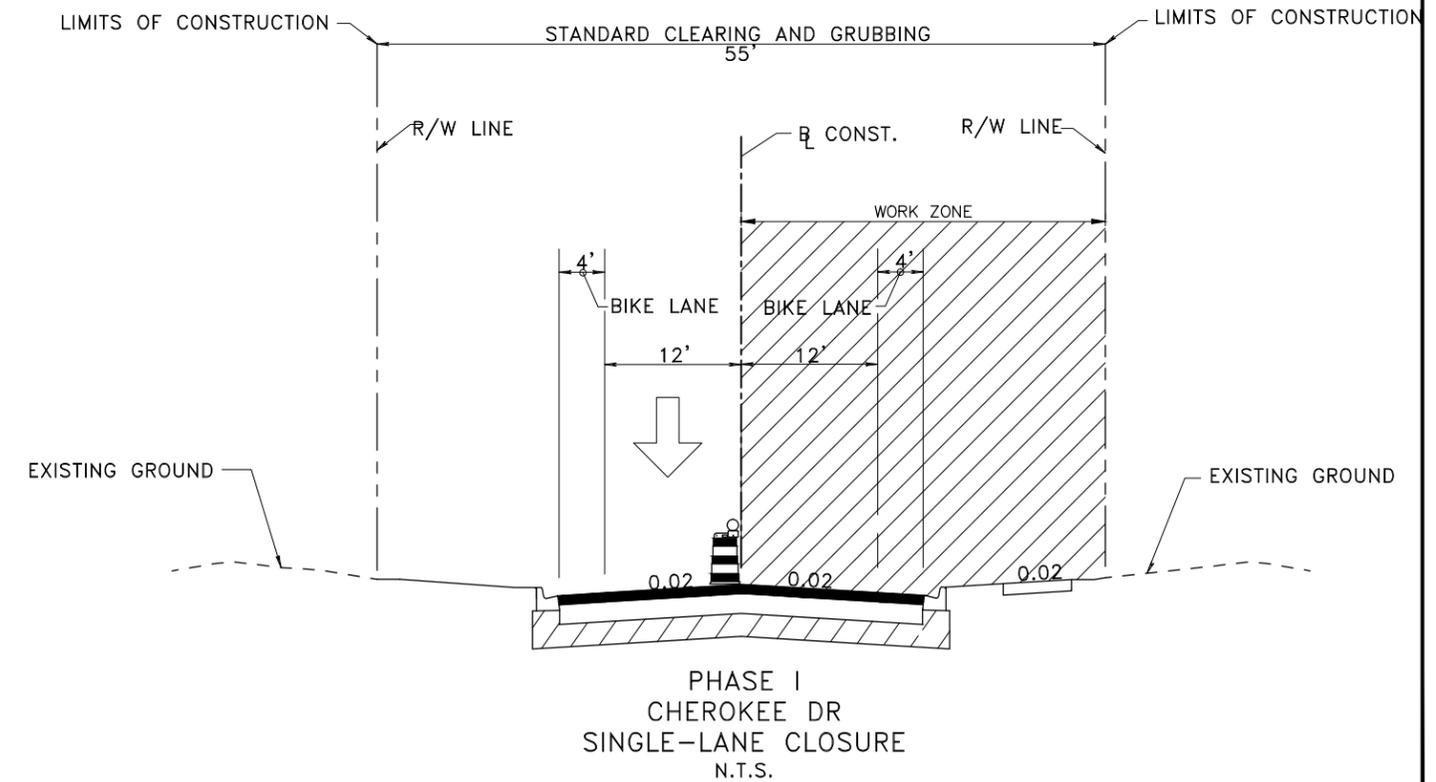
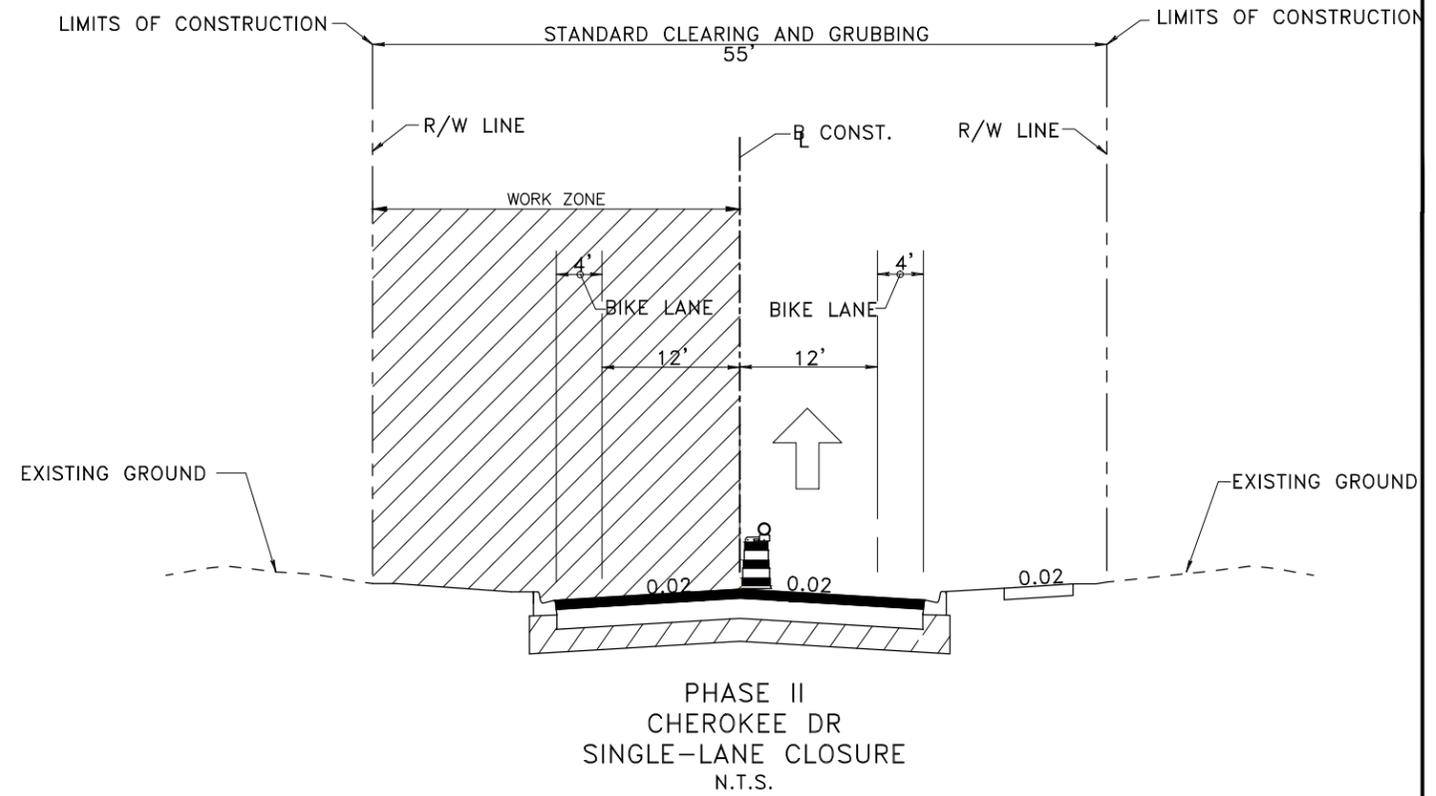
PHASE II (SINGLE-LANE CLOSURE)

THE INTENT OF THIS PHASE IS TO PERFORM WORK WHERE ANY VEHICLE, EQUIPMENT, WORKERS, OR THEIR ACTIVITIES ENCROACH ON OR WITHIN 2FT OF THE EXISTING OUTSIDE TRAVEL LANE.

1. PLACE ADVANCE WARNING SIGNS FOR THE ACTIVE WORK AREA.
2. PLACE TRAFFIC CONTROL DEVICES (BARRICADE, VERTICAL PANEL, AND/OR DRUMS) PER FDOT INDEXES 603 AND 625. PLACE PEDESTRIAN CONTROL SIGNS AND DEVICES PER INDEX 660.
3. PERFORM WORK ACTIVITIES SUCH AS, BUT NOT LIMITED TO, INSTALLATION OF THE FOUNDATION FOR THE DYNAMIC MESSAGE SIGNS AND SUPPORTS, CCTV CAMERAS, AND VIDEO DETECTION SYSTEMS.

TYPICAL SECTION NOTES:

1. TYPICAL SECTION DETAILS APPLY TO BOTH EB AND WB CHEROKEE DR..
2. ADDITIONAL BARRIERS MAY BE REQUIRED ON PAVEMENT IN ORDER TO MAINTAIN PEDESTRIAN TRAFFIC. SEE STANDARD INDEX 660 FOR DETAILS.



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**DIVISION OF ENGINEERING
AND TECHNICAL SUPPORT**
14 S. FT. HARRISON AVE., CLEARWATER, FL 33756

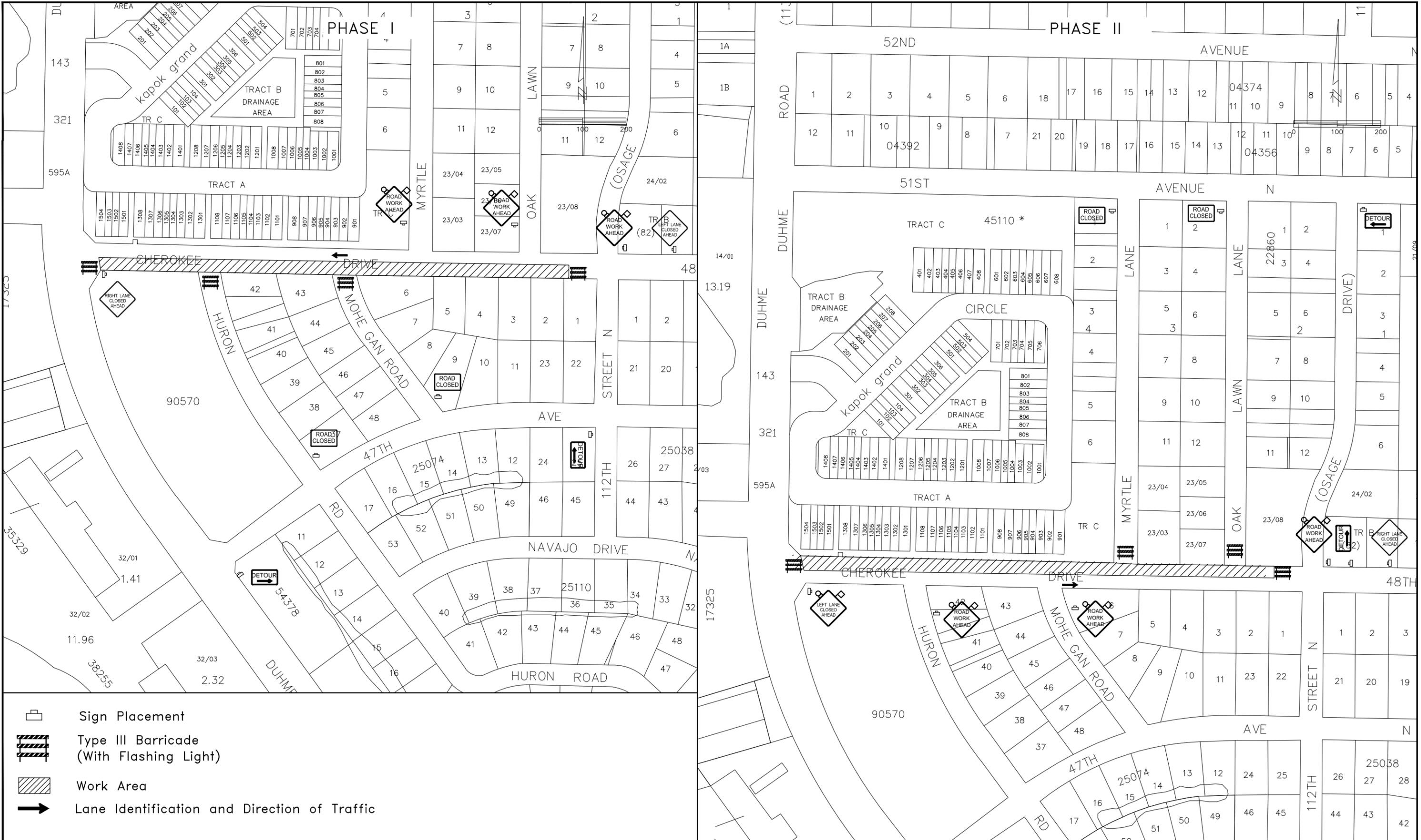
PROJECT: CHEROKEE DRIVE
ROADWAY IMPROVEMENTS
FROM DUHME RD TO 112TH ST

DESCRIPTION: TEMPORARY TRAFFIC CONTROL
PLANS

APPROVED BY: _____ DATE _____
XXXX XXXXXXXX, P.E.
FLA. REG. NO XXXX-XX

DATE: 2013/2014
PROJECT NO. 005267A
SHEET: 32 OF 37

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-  Sign Placement
-  Type III Barricade (With Flashing Light)
-  Work Area
-  Lane Identification and Direction of Traffic

REV. NO.	DATE	DESCRIPTION	REV. BY

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CHECKED	XXX



DIVISION OF ENGINEERING AND TECHNICAL SUPPORT
 14 S. FT. HARRISON AVE., CLEARWATER, FL 33756

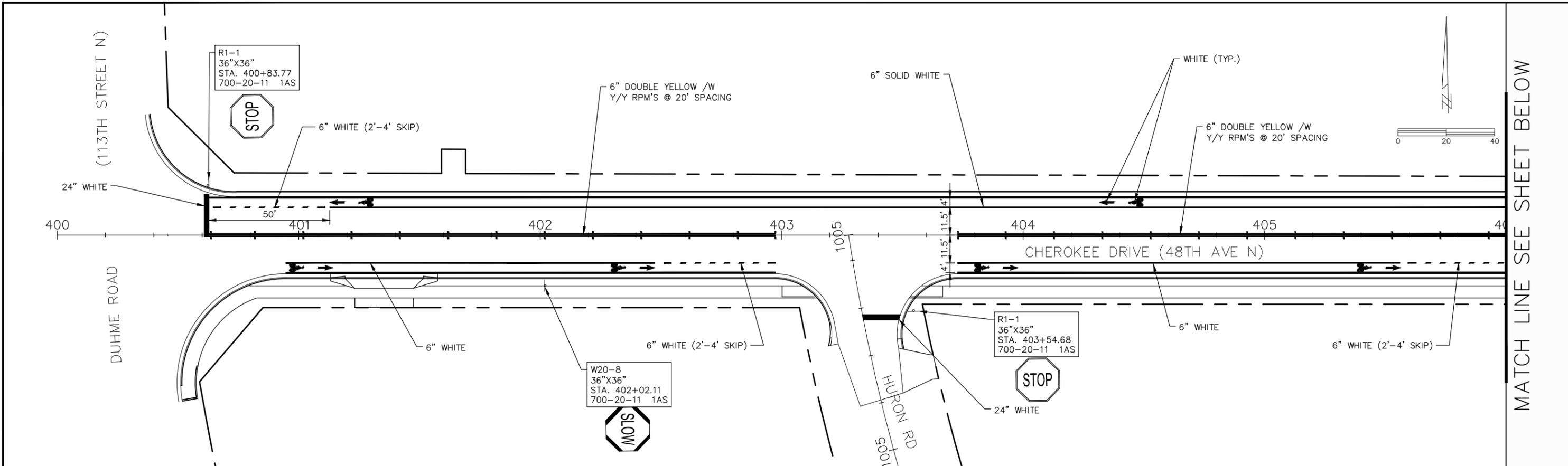
PROJECT: CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST

DESCRIPTION: TEMPORARY TRAFFIC CONTROL PLANS

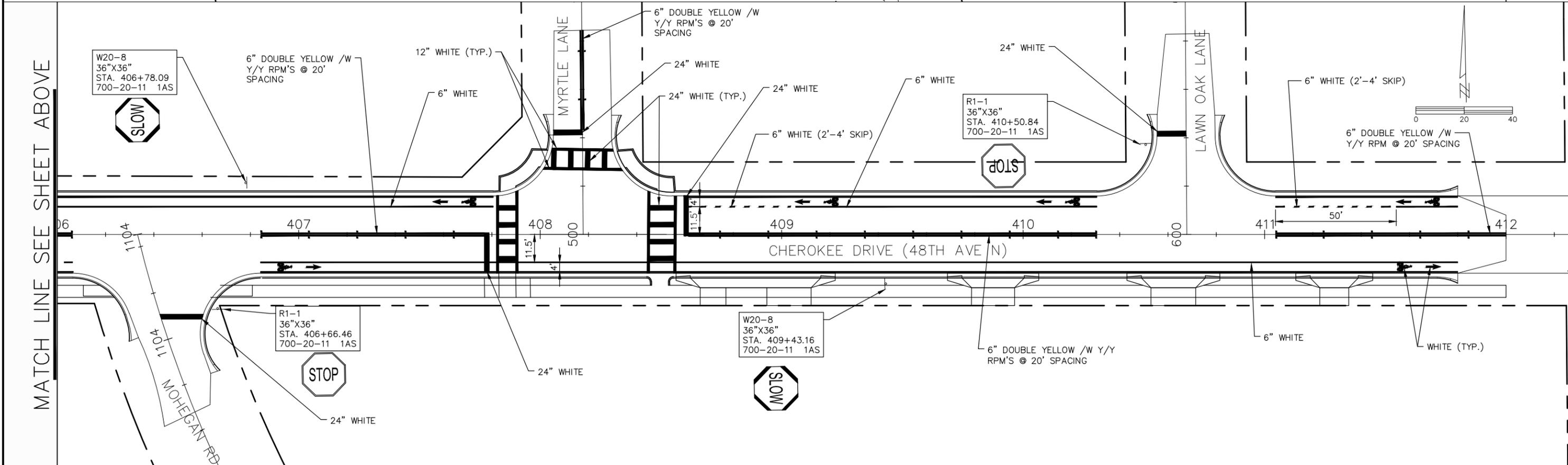
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DATE: 2013/2014
 PROJECT NO. 005267A
 SHEET: 33 OF 37

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DESIGNED: XXX			DIVISION OF ENGINEERING AND TECHNICAL SUPPORT 14 S. FT. HARRISON AVE., CLEARWATER, FL 33756	PROJECT:	DESCRIPTION:	APPROVED BY:	DATE:	
DRAWN: XXX				CHEROKEE DRIVE ROADWAY IMPROVEMENTS	SIGNS & PAVEMENT MARKINGS	XXXX XXXXXXXX, P.E. FLA. REG. NO XXXX-XX	DATE	2013/2014
CHECKED: XXX				FROM DUHME RD TO 112TH ST	PLAN			PROJECT NO. 005267A
REV. NO.	DATE	DESCRIPTION	REV. BY	SHEET: 34 OF 37				

P-2
P-4
P-6



PED. SIGNAL
COUNT-DOWN
1-SECT., 1-WAY

6
653-191

SIGNAL OPERATION DETAILS:



SIGN
FTP-25-06

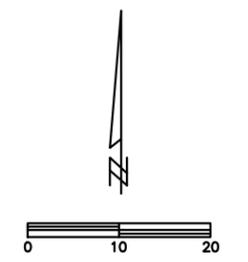


SIGN
FTP-25-06

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3-SECT., 1-WAY

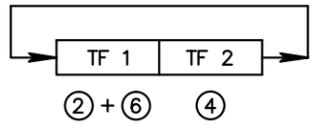
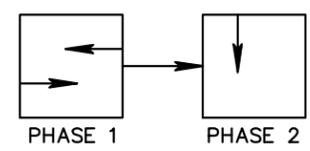
6



CONTROLLER NOTES:

- MAJOR STREET IS CHEROKEE DR, PHASE 1 (MOVEMENTS 2 AND 6), AND MINOR STREET IS MYRTLE LN, PHASE 2 (MOVEMENT 4).
- MODIFIED SIGNAL OPERATING PLAN NO. 1.

MODIFIED S.O.P. 1



DETECTORS FOR LOOPS				
LOOP	NO. OF LOOPS	NO. OF NEW DETS.	CHANNEL NO.	DELAY TIME (SEC)
L-				

DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.

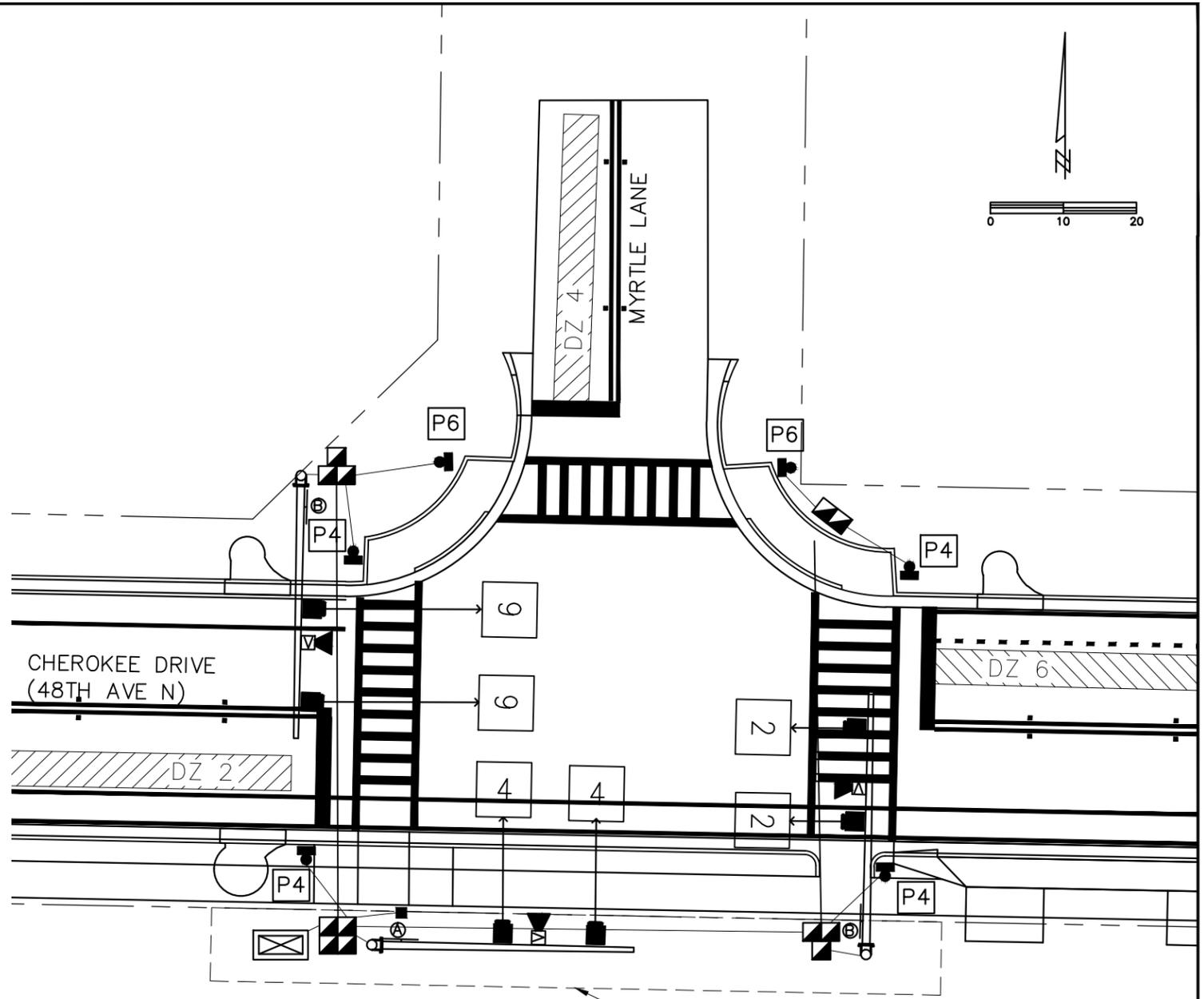
SIGN PANELS:

699-1-1

CHEROKEE DR
0000 0000

MYRTLE LN
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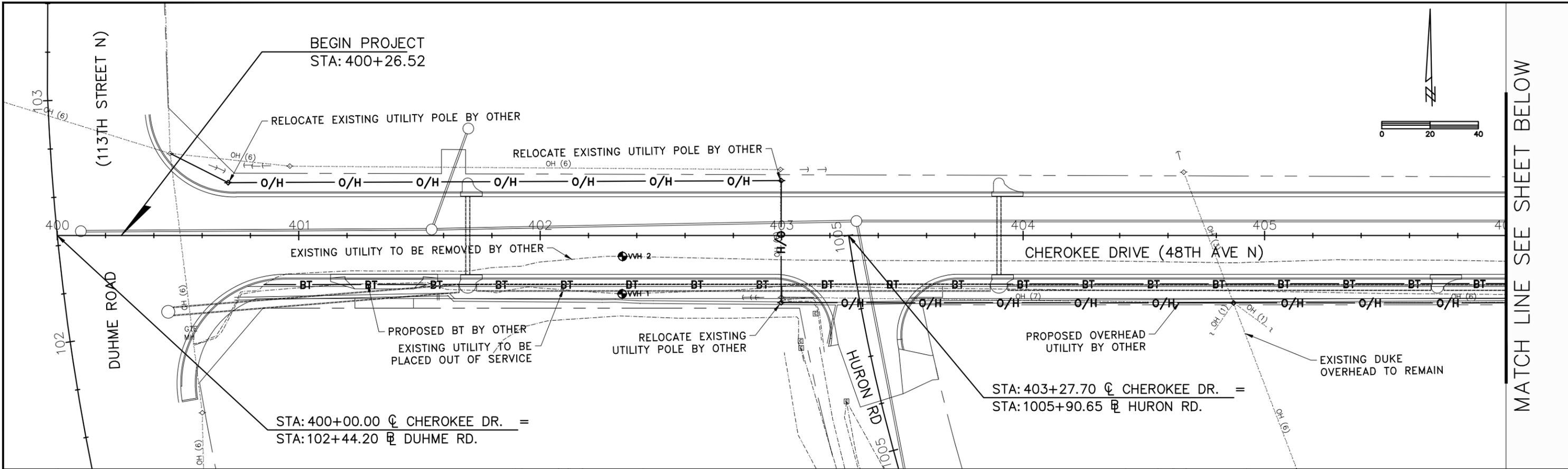
CONTROLLER TIMINGS									
TIMING FUNCTION	MOVEMENT NUMBER								
MINIMUM GREEN									
EXTENSION									
MAXIMUM GREEN 1									
MAXIMUM GREEN 2									
YELLOW CLEARANCE									
ALL RED									
PEDESTRIAN WALK									
PED. CLEARANCE									
RECALL									



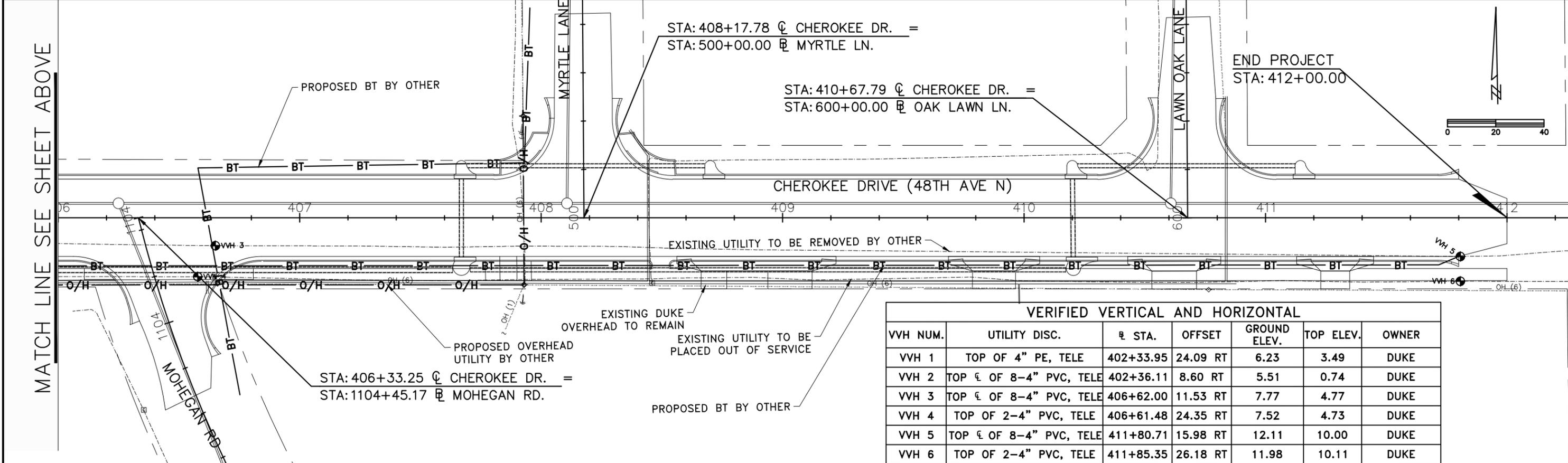
TRAFFIC SIGNAL EASEMENT
12452-123

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MATCH LINE SEE SHEET BELOW



MATCH LINE SEE SHEET ABOVE

VERIFIED VERTICAL AND HORIZONTAL						
VVH NUM.	UTILITY DISC.	℄ STA.	OFFSET	GROUND ELEV.	TOP ELEV.	OWNER
VVH 1	TOP OF 4" PE, TELE	402+33.95	24.09 RT	6.23	3.49	DUKE
VVH 2	TOP ℄ OF 8-4" PVC, TELE	402+36.11	8.60 RT	5.51	0.74	DUKE
VVH 3	TOP ℄ OF 8-4" PVC, TELE	406+62.00	11.53 RT	7.77	4.77	DUKE
VVH 4	TOP OF 2-4" PVC, TELE	406+61.48	24.35 RT	7.52	4.73	DUKE
VVH 5	TOP ℄ OF 8-4" PVC, TELE	411+80.71	15.98 RT	12.11	10.00	DUKE
VVH 6	TOP OF 2-4" PVC, TELE	411+85.35	26.18 RT	11.98	10.11	DUKE

DESIGNED	XXX	 PINELLAS COUNTY ENVIRONMENT AND INFRASTRUCTURE	DIVISION OF ENGINEERING AND TECHNICAL SUPPORT 14 S. FT. HARRISON AVE., CLEARWATER, FL 33756	PROJECT:	CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST	DESCRIPTION:	UTILITY ADJUSTMENTS	APPROVED BY:	DATE:	2013/2014	
DRAWN	XXX			PROJECT NO.	005267A	DATE:	XXXX XXXXXXXX, P.E. FLA. REG. NO XXXX-XX	DATE:		SHEET:	37 OF 37
CHECKED	XXX			REV. NO.		DATE:					

PINELLAS COUNTY
 DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
 DIVISION OF ENGINEERING AND TECHNICAL SUPPORT
 SURVEY AND MAPPING SECTION
 STATE OF FLORIDA

Pinellas County Government is committed to progressive public policy, superior public service, courteous public contact, judicious exercise of authority and sound management of public resources, to meet the needs and concerns of our citizens today and tomorrow.



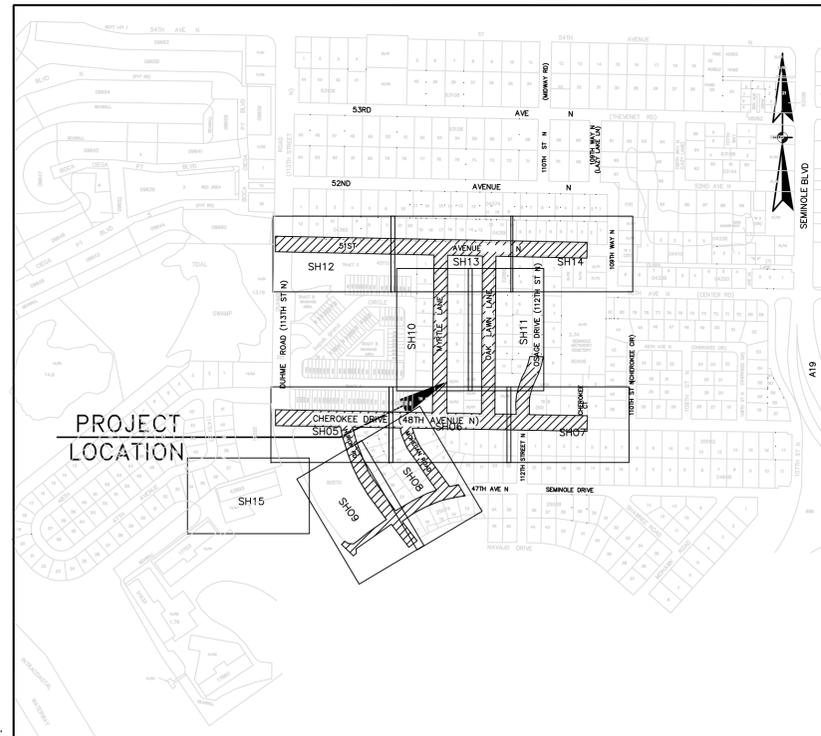
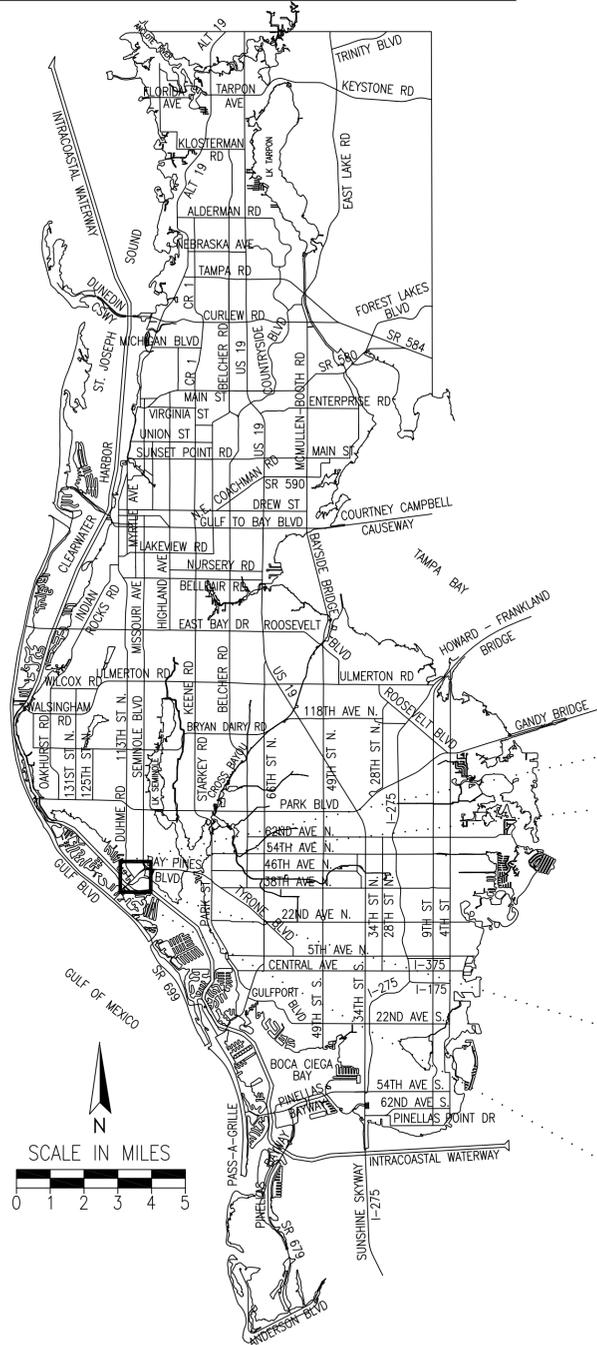
TOPOGRAPHIC SURVEY OF:
MOHEGAN ROAD
 at SEMINOLE DRIVE NORTH
 DRAINAGE IMPROVEMENTS

THE SURVEY DEPICTED HERE IS NOT COVERED BY PROFESSIONAL LIABILITY INSURANCE.
 VICINITY MAP

NOT TO SCALE

SHEET INDEX

- 1 COVER SHEET / VICINITY MAP / GRAPHIC SYMBOLS
- 2 LAND SURVEYOR REPORT / EXISTING STRUCTURES
- 3 ALIGNMENT / MONUMENTATION
- 4 REFERENCES / WH / ABBREVIATIONS
- 5-15 TOPOGRAPHIC SURVEY



SECTION 03, TOWNSHIP 31 SOUTH, RANGE 15 EAST
 SECTION 04, TOWNSHIP 31 SOUTH, RANGE 15 EAST

GRAPHIC SYMBOLS:

<p>CENTERLINE CONTOUR LINE EXISTING TOPOGRAPHIC FEATURE SURFACE WATER/WETLAND BOUNDARY SURVEY REFERENCE LINE RIGHT-OF-WAY (EXISTING) RIGHT-OF-WAY LINE (PROPOSED) (EXISTING W/ ACQUISITION) PROPERTY OR DEED LINE EASEMENT LINE EASEMENT LINE (PROPOSED) (EXISTING W/ ACQUISITION) SECTION LINE ORIGINAL LOT LINE/FORMER OWNERSHIP LINE/ VACATED EASEMENTS TREE LINE FENCE LINE COMMUNICATION LINE TRAFFIC CONTROL LINE ELECTRIC POWER LINE/CABLE DRAINAGE (STORM SEWER) PIPE EXISTING TOP OF BANK AND TOE OF SLOPE</p>	<p>SANITARY SEWER GRAVITY LINE FORCE MAIN (SANITARY SEWER) GAS LINE HOT OIL LINE RECLAIMED WATER LINE POTABLE WATER UNKNOWN UTILITY FOUND CONCRETE MONUMENT FOUND NAIL & DISC/CAP BRASS DISC FOUND IRON ROD FOUND IRON PIPE FOUND PINCH PIPE SET CONCRETE MONUMENT SET NAIL & DISC/CAP BRASS DISC SET IRON ROD XCUT (FOUND) XCUT (SET) SUB PARCEL NO. BLOCK NUMBER PROPERTY APPRAISER PARCEL NUMBER PROPOSED PARCEL</p>	<p>BACKFLOW PREVENTER BENCHMARK CENTERLINE COMMUNICATIONS BOX RECLAIMED WATER MANHOLE DECIDUOUS TREE (OAK UNLESS OTHERWISE ANNOTATED) DELTA ANGLE DRAINAGE CLEAN OUT DRAINAGE MANHOLE ELECTRICAL OUTLET EVERGREEN TREE FIRE HYDRANT GAS VALVE GATE VALVE GRATE INLET GUY WIRE HOSE BIB</p>	<p>JUNCTION BOX LIGHT POLE MAILBOX MONITOR WELL PALM TREE PEDESTRIAN SIGNAL POLE/POST POWER BOX PROPERTY LINE RECLAIMED WATER MANHOLE RECLAIMED WATER METER RECLAIMED WATER VALVE SANITARY SEWER CLEANOUT SEWER MANHOLE</p>	<p>SHRUB SIGN SPRINKLER HEAD SPRINKLER HEAD VALVE SURVEY LINE TARGET TRAFFIC SIGNAL POLE TRAFFIC SIGNAL PULL BOX UNDERDRAIN BOX UTILITY POLE WATER METER WATER VALVE</p>
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SUSAN C. V. SCHOLPP, P.S.M. DATE
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 Pinellas County
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 Division of Engineering and Technical Support
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SURVEY REVISION DATE	SURVEY FILE NO.: 1885
	PID NO.: 000414A
	SHEET 01 OF 15

LAND SURVEYOR REPORT:

- Type of Survey: Topographic Survey (Chapter 5J-17.052(12), F.A.C.) to establish the geographic location of existing conditions to facilitate the design of improvements for MOHEGAN ROAD AT SEMINOLE DRIVE DRAINAGE IMPROVEMENTS (SFN 1885).
- Survey Date: January 2008, April 2009, July 2012
Date of Computations: February 2008, April 2009, July 2012
- HORIZONTAL and VERTICAL CONTROL from SFN 1103 113 STREET AT WALKER STREET dated November 13, 2000 which is based on the State Plane Coordinate System for the West Zone of Florida, North American Datum, 1983/1990 adjustment, on a line from National Geodetic Survey monuments "Seminole R" (Latitude = 1,272,599.5060500 ft., Departure = 399,162.86694 ft.) El.=40.70 NAVD 1988, and "Seminole S" (Latitude = 1,273,908.48768 ft., Departure = 399164.84813 ft.) El.=45.19 NAVD 1988 Adjusted, being S 00°05'12" W. The values for these points can be found in the Monumentation and Control Point Coordinates table found on sheet 03 of survey.
- PARENT BENCHMARK is National Geodetic Survey Monument: "Turtle 2 P", having an elevation of 6.12 feet North American Vertical Datum 1988 Adjusted.
- ACCURACY STATEMENT: All measurements, distances, elevations and features shown were performed in strict accordance with the Minimum Technical Standards set forth in Chapter 5J-17.052(12), F.A.C.
- Control Points 120-123, 130, 1208-1209, 1213, 1218-1219 and 1223-1225 serve as the Project Control and Benchmarks for this survey as tabled on Sheet 3 and delineated on Sheets 5-15.
- Abbreviation legend appears on Sheet 04 of the survey map. Abbreviations used in the stamping of found points are not shown in the abbreviation table of this survey. The stamping and/or markings of found points are shown in quotation marks in the Monumentation/Control Table to identify and/or describe the point only. The definitions of the abbreviations shown in quotation marks in the Monumentation/Control table are not known by the signing surveyor of this map.
- INTENDED FEATURES:

GENERAL:

The topography along Cherokee Drive, Myrtle Lane, Oak Lawn Lane, Osage Drive and 51st Ave North is from SFN 1679-CHEROKEE DRIVE, MYRTLE LANE and OAK LAWN LANE Drainage Improvements (SFN 1679) dated 03/03/08 with a revision on 04/06/09 and shown on Sheets 05-12 and 15. This data was not updated or field verified for this survey but is included to show conditions of the entire area that may be needed for drainage study and/or design. Topographical features such as trees, buildings, fences, edge of pavement, curbing, driveways, drainage and sanitary structures/systems. Aboveground utilities are shown, however, other utilities may exist. Subsurface utility information provided at Quality Level B with specific verified vertical and horizontal (V/h) locates at Quality Level A as shown and tabled on this survey. Subsurface utility information provided where utilities are adjacent to rights-of-way only. Subsurface utilities not located where profiles of road centerlines and edge of pavements were the only topographic features located. The force main shown in GIS map running north-south on Duhme not detected by Ground Penetrating Radar equipment but may exist. Subsurface ground conditions including a high water table and subsurface rock layer made detection and or location of subsurface information difficult and other utilities and/or subsurface features may exist.

The topography along Mohegan Road, Huron Road and Seminole Drive was field located in July 2012 and is generally depicted on SHEETS 05, 08 and 09. Topographical features such as trees, buildings, fences, edge of pavement, curbing, driveways and drainage and sanitary structures. Aboveground utilities are shown, however, other utilities may exist. Subsurface utility information provided at Quality Level B with specific verified vertical and horizontal (V/h) locates at Quality Level A as shown and tabled on this survey. Subsurface utility information provided where utilities are adjacent to rights-of-way only. Subsurface ground conditions including a high water table and subsurface rock layer made detection and or location of subsurface information difficult and other utilities and/or subsurface features may exist.

Sheet 15 is intended to show drainage outfall information only. No other topographical features are shown.

DRAINAGE AND/OR SANITARY SYSTEMS:

Drainage Structures ES-01 through ES-42 and Sanitary Structures ESS-01 through ESS-20 are from SFN 1679-CHEROKEE DRIVE, MYRTLE LANE and OAK LAWN LANE Drainage Improvements (SFN 1679) dated 03/03/08 with a revision on 04/06/09. This data was not updated or field verified for this survey but is included to show conditions of the entire area that may be needed for drainage study and/or design.

Drainage Structures and associated pipes for ES-43 through ES-53 were located and measured in July 2012 and are in generally poor to failing condition. These structures and pipes are usually full of standing water. There is limited to no visibility into these structures to obtain accurate measurements. The structure, pipe information and inverts provided are approximate due to these field conditions. No additional structures were found between ES-43 and ES-46 although an effort was made utilizing Ground Penetrating Radar equipment to locate same. Subsurface ground conditions including a high water table and subsurface rock layer made detection and or location of subsurface information difficult and other utilities and/or subsurface features may exist.

PROPERTY APPRAISER MAPS AND/OR AERIAL PHOTOGRAPHY:

Property Appraiser Maps utilized for this survey are dated March 2009 and 2007 with the exception of Property Appraiser Map on the south side of Seminole Drive.

The Property Appraiser Map shown south of Seminole Drive is dated 08/03/2012. Property Appraiser Maps were moved, trimmed and rotated to best fit monumentation and occupation.

The Aerial overlaid on Sheet 15 (if shown) is for orientation purposes only.

- The SURVEY REFERENCE LINES shown hereon are calculated lines and are not monumented unless otherwise specified in monumentation/control table.
- SURVEY TECHNICIANS: I. Lathrop, R. Kirkland, M. Davis, B. Ellis, G. Lloyd, C. Bryant, T. Murray, C. Martinez and G. Smith.
- THIS SURVEY IS NOT A BOUNDARY SURVEY. Right-of-way, easements, land lines and property lines shown hereon are from the Pinellas County Property Appraiser Maps with dates noted in Note #8 of this Surveyor's Report. These rights-of-way, easements, land lines and property lines shown hereon are a graphic representation only and have not been calculated or field verified. Property Appraiser Maps were moved, trimmed and rotated to best fit monumentation and occupation.
- Not based on an abstract of title. Record instruments were provided and mapped. Other easements and/or restrictions may exist. Additional research may be required to verify right-of-way where noted on map.
- RESPONSIBILITY: The undersigned, Susan C.V. Scholpp, P.S.M., is the responsible Surveyor and Mapper for all features and data contained on this Survey and Map.
- Not valid without the Signature and the original raised Seal of a Florida Licensed Surveyor and Mapper.
- Additions or deletions to survey maps or reports by other than the signing party or parties is prohibited without written consent of the signing party or parties.
- Neither the map nor the report is full and complete without the other.
- THE SURVEY DEPICTED HERE IS NOT COVERED BY PROFESSIONAL LIABILITY INSURANCE.

EXISTING STRUCTURES:

DRAINAGE					DRAINAGE				
NUMBER	STATION	OFFSET	SRL#	DESCRIPTION	NUMBER	STATION	OFFSET	SRL#	DESCRIPTION
ES01	400+37.06	52.23 LT	SRL4	4' X 2' GRATE EL. 4.43 (AT EP) (GRATE EL. 4.18 AT CENTER OF GRATE) 36" RCP N INV EL -2.02 36" RCP S INV EL -2.07 15" RCP W INV EL -0.18 10' X 0.5' THRDAT EL. 4.08	ES09	406+22.04	16.25 RT	SRL4	GRATE EL. 7.67 15" ADS S INV EL. 5.97 18" X 12" ERCP E INV EL. 5.86 18" X 12" ERCP W INV EL. 5.80
ES02	400+46.03	31.45 RT	SRL4	MH EL. 4.33 48" RCP N INV EL -2.60 48" RCP S INV EL -2.78 48" RCP E INV EL -2.65	ES10	406+25.81	23.61 RT	SRL4	MES 15" ADS INV EL. 6.20
ES03	400+80.35	19.14 RT	SRL4	MH EL. 3.93 36" RCP E INV EL -2.10 48" RCP W INV EL -2.12 3' X 0.5' THRDAT EL. 3.04	ES11	406+58.10	31.69 RT	SRL4	MES 15" ADS INV EL. 6.06
ES04	401+63.70	19.52 RT	SRL4	4' X 3' GRATE EL. 3.99 30" RCP N INV EL -1.54 12" PVC S INV EL. 2.19 18" RCP E INV EL. 1.32 36" RCP W INV EL. -1.68	ES12	406+57.45	16.18 RT	SRL4	GRATE EL. 7.85 15" ADS S INV EL. 6.11 18" X 12" ERCP E INV EL. 6.13 18" X 12" W INV EL. 6.08
ES05	401+63.86	23.73 LT	SRL4	MH EL. 3.22 30" RCP S INV EL -1.54 3' X 0.5' THRDAT EL. 2.22 3' X 0.5' THRDAT EL. 2.15	ES13	406+74.79	16.53 RT	SRL4	MES 18" X 12" ERCP INV EL. 6.27
ES06	403+09.15	14.87 RT	SRL4	2' X 3' GRATE EL. 4.44 23" X 14" ERCP E INV EL. 2.29 18" RCP W INV EL. 2.04	ES14	407+72.40	18.37 LT	SRL4	MES 15" RCP INV EL. 6.47
ES07	403+59.02	14.03 RT	SRL4	MES 23" X 14" ERCP INV EL. 2.85	ES15	500+17.61	26.89 LT	SRL5	MH EL. 8.76 15" RCP N INV EL. 6.42 15" RCP E INV EL. 6.54 15" RCP W INV EL. 6.50 6" PVC NE INV EL. 6.54
ES08	406+04.41	15.79 RT	SRL4	MES 18" X 12" ERCP INV EL. 5.97	ES16	407+96.45	35.51 LT	SRL4	MES 15" RCP INV EL. 7.20
					ES17	500+33.77	11.06 RT	SRL5	MES 15" RCP INV EL. 7.78
					ES18	408+33.46	16.51 LT	SRL4	MH EL. 9.10 15" RCP N INV EL. 7.05 15" RCP E INV EL. 6.61 15" RCP W INV EL. 6.60 6" PVC NW INV EL. 6.68

DRAINAGE				
NUMBER	STATION	OFFSET	SRL#	DESCRIPTION
ES19	500+15.90 408+52.44	34.76 RT 16.13 LT	SRL5 SRL4	MES 15" RCP INV EL. 7.52
ES20	408+49.55	15.53 RT	SRL4	10" RCP INV EL. 7.56
ES21	411+44.49	20.44 RT	SRL4	8" VCP INV EL. 11.20
ES22	410+35.17 600+16.61	16.39 LT 32.90 LT	SRL4 SRL6	MES 15" RCP INV EL. 8.98
ES23	600+16.98 410+46.14	21.53 LT 16.83 LT	SRL6 SRL4	MH EL. 11.23 6" PVC N INV EL. 9.36 15" RCP S INV EL. 9.32 15" RCP W INV EL. 9.38 3' X 0.5' THRDAT EL. 10.37
ES24	600+16.69 410+89.46	21.79 RT 16.84 LT	SRL6 SRL4	MH EL. 11.52 6" PVC N INV EL. 9.92 6" PVC E INV EL. 9.80 15" RCP W INV EL. 9.59 3' X 0.5' THRDAT EL. 10.68 3' X 0.5' THRDAT EL. 10.69
ES25	500+59.83	9.84 RT	SRL5	12" RCP INV EL. 7.78
ES26	500+83.31	9.94 RT	SRL5	12" RCP INV EL. 7.90
ES27	508+51.69	14.84 LT	SRL5	MH EL. 16.84 6" PVC S INV EL. 13.84
ES28	1003+06.56	15.60 LT	SRL10	MH EL. 4.96 12" X 18" ERCP S INV EL. 2.36 3' X 0.5' THRDAT EL. 3.82
ES29	405+65.24	505.72 RT	SRL4	3' X 2' GRATE EL. 4.46 12" X 18" ERCP N INV EL. 2.09 18" RCP W INV EL. 2.01
ES30	504+46.14	12.44 RT	SRL5	MH EL. 10.93 6" PVC N INV EL. 7.95 6" PVC S INV EL. 7.92
ES31	700+55.85	35.73 RT	SRL7	MH EL. 4.94 24" RCP E INV EL. 0.18 UNABLE TO OBTAIN S INV INFORMATION DUE TO MH OFFSET
ES32	700+75.97	27.44 RT	SRL7	GRATE EL. 5.02 18" RCP N INV EL. 0.80 6" VCP S INV EL. 1.72 18" RCP E INV EL. 1.03 24" RCP W INV EL. 0.37
ES33	700+76.14	20.44 LT	SRL7	MH EL. 5.20 18" RCP S INV EL. 1.03 6" VCP E INV EL. 1.55 15" RCP W INV EL. 1.12 8" X 0.5' THRDAT EL. 4.30
ES34	701+51.14	6.20 LT	SRL7	GRATE EL. 5.57 15" RCP E INV EL. 3.77 18" RCP W INV EL. 2.17
ES35	702+29.78	8.25 LT	SRL7	GRATE EL. 7.35 15" RCP W INV EL. 4.41
ES36	NOT ADJACENT TO ALIGNMENT			MH EL. 5.43 15" RCP E INV EL. 1.50
ES37	400+32.40	411.62 LT	SRL4	GRATE EL. 3.94 36" RCP N INV EL. -1.66 36" RCP S INV EL. -1.70 15" RCP W INV EL. 0.39 WATER EL. 0.55 (9:00 A.M. 03/26/09)

DRAINAGE				
NUMBER	STATION	OFFSET	SRL#	DESCRIPTION
ES38	401+81.83	54.17 RT	SRL4	GRATE EL. 6.13 12" PVC N INV EL. 3.66
ES39	400+80.10	170.64 RT	SRL4	MH EL. 4.49 48" RCP N INV EL. -2.93 48" RCP SW INV EL. -3.26 15" RCP W INV EL. 0.41 WATER EL. 0.67 (9:20 A.M. 03/26/09)
ES40	1003+47.78	372.72 LT	SRL10	MH EL. 6.94 48" RCP W INV EL. -3.4 48" RCP NE INV EL. -3.3 *INVERTS OF PIPES IN ES40 ARE +/- 0.3' DUE TO FIELD CONDITIONS.
ES42	1004+09.76	864.45 LT	SRL10	48" RCP E INV EL. -4.0 *INVERT OF ES42 IS +/- 0.5' DUE TO FIELD CONDITIONS INCLUDING SUBMERGED OUTFALL PIPE AND BARNACLE BUILD-UP.
ES43	1797+60.63	10.05 RT	SRL12	MH EL. 7.81 6" VCP E INV EL. 5.29 6" VCP W INV EL. 5.29
ES44	1796+37.11	16.48 LT	SRL12	2' X 2' GRATE EL. 6.54 6" STEEL N INV EL. 5.46 6" STEEL E INV EL. 5.25 12" PVC N INV EL. 5.21 BDX SIZE 1.4' X 1.7' X 1.3' (DEPTH)
ES45	1796+04.12	18.35 LT	SRL12	2' X 2' GRATE EL. 6.54 17" X 13" ECMP E INV EL. 5.18 6" ORANGE BERG W INV EL. 5.14 BDX SIZE 1.8' X 1.8' X 1.5' (DEPTH)
ES46	1793+42.25	12.42 RT	SRL12	MH EL. 5.83 8" VCP S INV EL. 2.62 6" VCP E INV EL. 2.61 12" X 18" ERCP W INV EL. 2.65 BDX SIZE 2.0' X 2.5' X 2.7' 11.5' X 0.5' THRDAT EL. 4.81
ES47	1793+07.96	13.95 RT	SRL12	2' X 2' GRATE EL. 5.06 12" X 18" ERCP E INV EL. 5.57 15" RCP W INV EL. 2.53 BDX SIZE 2.0' X 2.4' X 2.5'
ES48	1791+99.15	33.61 RT	SRL12	15" RCP INV EL. 1.39
ES49	1791+78.43	34.66 RT	SRL12	24" RCP INV EL. -2.45
ESS0	1791+78.88	19.75 LT	SRL12	MH EL. 4.64 S INV EL. -2.28 (UNABLE TO CONFIRM PIPE SIZE & TYPE) 18" RCP E INV EL. 1.32 W INV EL. -2.58 (UNABLE TO CONFIRM PIPE SIZE & TYPE) BDX SIZE 3.0' X 4.5' X 6.5' W/3.5' STANDING WATER 4.5' X 0.6' THRDAT EL. 3.55
ESS1	1790+69.70	20.23 RT	SRL12	MH EL. 4.07 15" RCP N INV EL. -0.34 BDX SIZE 4.0' DIA W/1.5' STANDING WATER 11.5' X 0.6' THRDAT EL. 3.04
ESS2	1790+76.25	22.87 LT	SRL12	MH EL. 4.06 15" RCP S INV EL. -0.71 E INV EL. -2.53 (UNABLE TO CONFIRM PIPE SIZE & TYPE) NW INV EL. -2.00 (UNABLE TO CONFIRM PIPE SIZE & TYPE) BDX SIZE 4.0' DIA W/4' STANDING WATER 8.0' X 0.7' THRDAT EL. 3.09
ESS3	1790+44.54	55.10 LT	SRL12	2' X 4' GRATE EL. 4.01 (Ø EP) UNABLE TO ACQUIRE INFORMATION ON INLET AND PIPES DUE TO FIELD CONDITIONS. 10.0' X 0.5' THRDAT EL. 3.60

NOTE: FOR ES-43 TO ES-53 *SEE SURVEYOR'S REPORT #8 DRAINAGE AND/OR SANITARY SYSTEMS.

SANITARY SEWER				
NUMBER	STATION	OFFSET	SRL#	DESCRIPTION
ESS01	NOT ADJACENT TO ALIGNMENT			MH EL. 5.92 NO DETAILS OBTAINED
ESS02	400+09.79	1.84 LT	SRL4	MH EL. 5.17 15" VCP NW INV EL. -4.91 15" VCP SE INV EL. -4.93 8" VCP E INV EL. -4.53
ESS03	400+55.46	237.83 RT	SRL4	MH EL. 5.57 15" VCP NW INV EL. -5.13 15" VCP S INV EL. -5.19 8" VCP W INV EL. -2.71
ESS04	401+70.04	2.64 LT	SRL4	MH EL. 4.26 8" VCP N INV EL. -3.46 8" VCP S INV EL. -3.50 8" VCP E INV EL. -3.89 8" VCP W INV EL. -3.95
ESS05	405+32.87	1.49 LT	SRL4	MH EL. 6.74 8" VCP E INV EL. 1.45 8" VCP W INV EL. 1.38
ESS06	500+00.90 408+16.85	0.93 LT 0.89 LT	SRL5 SRL4	MH EL. 9.16 8" VCP N INV EL. 3.84 8" VCP E INV EL. 3.86 8" VCP W INV EL. 3.81
ESS07	600+00.09 410+69.17	1.39 RT 0.10 LT	SRL6 SRL4	MH EL. 11.67 24" PVC N INV EL. 6.69 8" VCP E INV EL. 6.55 8" VCP W INV EL. 6.61
ESS08	412+49.52	0.05 LT	SRL4	MH EL. 14.10 15" RCP N INV EL. 8.70 8" VCP E INV EL. 9.35 8" VCP W INV EL. 8.51
ESS09	415+56.05	0.05 RT	SRL4	MH EL. 19.10 8" VCP N INV EL. 11.57 8" VCP E INV EL. 11.44 8" VCP W INV EL. 11.50
ESS10	418+07.71	0.15 RT	SRL4	MH EL. 21.31 8" VCP N INV EL. 12.60 8" VCP E INV EL. 12.31 8" VCP W INV EL. 12.28

SANITARY SEWER				
NUMBER	STATION	OFFSET	SRL#	DESCRIPTION
ESS11	503+76.88	0.49 LT	SRL5	MH EL. 10.54 8" VCP N INV EL. 5.44 8" VCP S INV EL. 5.39
ESS12	507+49.61	0.09 RT	SRL5	MH EL. 15.54 8" VCP S INV EL. 11.07
ESS13	603+74.61	0.85 LT	SRL6	MH EL. 15.90 8" VCP N INV EL. 10.44 8" VCP S INV EL. 10.41
ESS14	607+49.65	0.37 LT	SRL6	MH EL. 22.63 8" VCP S INV EL. 18.64
ESS15	412+49.74	88.78 LT	SRL4	MH EL. 15.66 8" VCP S INV EL. 11.03 8" VCP E INV EL. 11.08
ESS16	602+97.15	252.04 RT	SRL6	MH EL. 21.26 8" VCP N INV EL. 17.19 8" VCP S INV EL. 17.15
ESS17	605+22.34	251.94 RT	SRL6	MH EL. 25.76 8" VCP N INV EL. 21.39 8" VCP S INV EL. 21.36
ESS18	713+41.90	141.32 RT	SRL7	MH EL. 28.14 8" VCP S INV EL. 23.72
ESS19	713+05.78	14.53 LT	SRL7	MH EL. 27.54 4" VCP N INV EL. 23.53 8" VCP E INV EL. 23.52
ESS20	717+17.79	17.80 LT	SRL7	MH EL. 27.09 8" VCP N INV EL. 22.21 8" VCP W INV EL. 22.23
ESS21	1103+18.41	3.11 LT	SRL11	MH EL. 7.59 8" VCP SE INV EL. 3.59 4" VCP W INV EL. 3.86
ESS22	1100+00.65	6.44 LT	SRL11	MH EL. 8.42 8" VCP NW INV EL. 3.46 8" VCP S INV EL. 4.19 8" VCP E INV EL. 3.41 10" VCP W INV EL. 3.40
ESS23	1798+01.00	1.15 LT	SRL12	MH EL. 7.12 8" VCP E INV EL. 2.39 8" VCP W INV EL. 2.36

SANITARY SEWER				
NUMBER	STATION	OFFSET	SRL#	DESCRIPTION
ESS24	1794+47.42	9.81 LT	SRL12	MH EL. 5.75 10" VCP E INV EL. 1.32 10" VCP W INV EL. 1.28
ESS25	1793+27.62	4.54 LT	SRL12	MH EL. 5.34 8" VCP NW INV EL. -1.65 8" VCP SE INV EL. -2.64 10" VCP E INV EL. -2.72 10" VCP W INV EL. -2.93
ESS26	1793+27.66	291.84 LT	SRL12	MH EL. 5.97 8" VCP NW INV EL. -1.59 8" VCP SE INV EL. -1.58 8" VCP E INV EL. 0.98
ESS27	1002+78.35	7.20 LT	SRL10	MH EL. 4.07 8" VCP NW INV EL. -0.53 8" VCP SE INV EL. -0.63 4" VCP SW INV EL. 0.33
ESS28	1004+78.20	0.98 RT	SRL10	MH EL. 4.97 4" VCP NW INV EL. 0.73 8" VCP SE INV EL. 0.21 4" VCP E INV EL. 0.36 6" PVC W INV EL. 1.04
ESS29	1790+82.75	0.66 LT	SRL12	MH EL. 3.95 8" PVC NW INV EL. -2.15 8" PVC SE INV EL. -0.36 10" VCP NE INV EL. -2.73 10" VCP SW INV EL. -3.77
ESS30	1790+74.33	200.34 LT	SRL12	MH EL. 7.37 8" PVC NW INV EL. 1.75 8" PVC SE INV EL. 1.70
ESS31	1790+05.46	0.72 LT	SRL12	MH EL. 4.94 14" VCP NW INV EL. -5.95 14" VCP SE INV EL. -5.99 10" VCP NE INV EL. -4.19

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ALIGNMENT:

Horizontal Alignment PI Station Report.

Alignment: SRL01
Desc: 109 WAY N

PNT#	PI Station	Northing	Easting	Distance	Direction
20004	100+00.00	1267230.5932	400783.3662	173.20	N 00-32-35 E
20001	101+73.20	1267403.7900	400785.0100	69.20	N 00-32-35 E
20015	102+42.40	1267472.9799	400785.6637	350.13	N 00-32-35 E
20005	105+92.53	1267823.0965	400788.9823	150.12	N 00-32-35 E

Horizontal Alignment PI Station Report.

Alignment: SRL02
Desc: CLARA LANE

PNT#	PI Station	Northing	Easting	Distance	Direction
20009	200+00.00	1267404.3877	400755.0122	30.00	S 88-51-18 E
20001	200+30.00	1267403.7900	400785.0100	999.71	S 88-51-18 E
20008	210+29.71	1267383.8099	401784.5135	1624.15	S 88-52-57 E

Horizontal Alignment PI Station Report.

Alignment: SRL04
Desc: CHEROKEE DR

PNT#	PI Station	Northing	Easting	Distance	Direction
20000	400+00.00	1266616.8121	399071.2676	817.78	S 88-52-57 E
20003	408+17.78	1266600.8630	399888.8962	250.01	S 88-52-57 E
20010	410+67.79	1266595.9872	400138.8498	1624.15	S 88-52-57 E
20011	426+91.94	1266564.3116	401762.6967	1624.15	S 88-52-57 E

Horizontal Alignment PI Station Report.

Alignment: SRL05
Desc: MYRTLE LANE

PNT#	PI Station	Northing	Easting	Distance	Direction
20003	500+00.00	1266600.8630	399888.8962	889.46	N 00-43-54 E
20013	508+89.46	1267490.2512	399900.2543	250.00	S 88-52-57 E

Horizontal Alignment PI Station Report.

Alignment: SRL06
Desc: OAK LAWN LANE

PNT#	PI Station	Northing	Easting	Distance	Direction
20010	600+00.00	1266595.9872	400138.8498	889.4607	N 00-43-54 E
20014	608+89.46	1267485.3755	400150.2079	1624.15	S 88-52-57 E

Horizontal Alignment PI Station Report.

Alignment: SRL07
Desc: 51st AVE N

PNT#	PI Station	Northing	Easting	Distance	Direction
20012	700+00.00	1267506.6223	399060.9918	839.42	S 88-52-57 E
20013	708+39.42	1267490.2512	399900.2543	250.00	S 88-52-57 E
20014	710+89.42	1267485.3755	400150.2079	635.58	S 88-52-57 E
20015	717+25.00	1267472.9799	400785.6637	1624.15	S 88-52-57 E

Horizontal Alignment PI Station Report.

Alignment: SRL10
Desc: HURON RD

PNT#	PI Station	Northing	Easting	Distance	Direction
20023	1000+00.00	1266088.2380	399656.8617	176.04	N 36-22-35 W
20024	1001+76.04	1266229.9738	399552.4552	176.04	N 36-22-35 W

Horizontal Alignment PI Station Report.

Alignment: SRL11
Desc: MOHEGAN RD

PNT#	PI Station	Northing	Easting	Distance	Direction
20028	1100+00.00	1266224.6480	399928.9851	227.60	N 36-22-35 W
20027	1102+27.60	1266407.8999	399793.9967	227.60	N 36-22-35 W
20027	PC 1102+27.60	1266407.8999	399793.9967	227.60	N 36-22-35 W
20026	PT: 1104+45.17	1266604.4618	399704.4014	227.60	N 36-22-35 W

Horizontal Alignment PI Station Report.

Alignment: SRL12
Desc: SEMINOLE DR

PNT#	PI Station	Northing	Easting	Distance	Direction
20022	1789+00.00	1265834.2876	399312.1143	453.13	N 53-37-25 E
20021	PC R 1793+53.13	1266103.0323	399676.9455	453.13	N 53-37-25 E
20020	PT 1798+50.07	1266250.8653	400142.1402	453.13	N 53-37-25 E

Horizontal Alignment PI Station Report.

Alignment: SRL12
Desc: SEMINOLE DR

PNT#	PI Station	Northing	Easting	Distance	Direction
20020	1798+50.07	1266250.8653	400142.1402	149.93	S 88-52-57 E
20016	1800+00.00	1266247.9399	400292.0400	149.93	S 88-52-57 E
20016	1800+00.00	1266247.9399	400292.0400	1200.00	S 88-52-57 E
20018	1812+00.00	1266224.5366	401491.8118	1200.00	S 88-52-57 E

Horizontal Alignment PI Station Report.

Alignment: SRL12
Desc: SEMINOLE DR

PNT#	PI Station	Northing	Easting	Distance	Direction
20022	1789+00.00	1265834.2876	399312.1143	453.13	N 53-37-25 E
20021	PC R 1793+53.13	1266103.0323	399676.9455	453.13	N 53-37-25 E
20020	PT 1798+50.07	1266250.8653	400142.1402	453.13	N 53-37-25 E

Horizontal Alignment PI Station Report.

Alignment: SRL12
Desc: SEMINOLE DR

PNT#	PI Station	Northing	Easting	Distance	Direction
20020	1798+50.07	1266250.8653	400142.1402	149.93	S 88-52-57 E
20016	1800+00.00	1266247.9399	400292.0400	149.93	S 88-52-57 E
20016	1800+00.00	1266247.9399	400292.0400	1200.00	S 88-52-57 E
20018	1812+00.00	1266224.5366	401491.8118	1200.00	S 88-52-57 E

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20016	1800+00.00	1266247.9399	400292.0400	149.93	S 88-52-57 E
20016	1800+00.00	1266247.9399	400292.0400	1200.00	S 88-52-57 E
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Alignment: SRL12
Desc: SEMINOLE DR

PNT#	PI Station	Northing	Easting	Distance	Direction
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20016	1800+00.00	1266247.9399	400292.0400	149.93	S 88-52-57 E
20016	1800+00.00	1266247.9399	400292.0400	1200.00	S 88-52-57 E
20018	1812+00.00	1266224.5366	401491.8118	1200.00	S 88-52-57 E

Horizontal Alignment PI Station Report.

Alignment: SRL12
Desc: SEMINOLE DR

PNT#	PI Station	Northing	Easting	Distance	Direction
20020	1798+50.07	1266250.8653	400142.1402	149.93	S 88-52-57 E
20016	1800+00.00	1266247.9399	400292.0400	149.93	S 88-52-57 E
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Horizontal Alignment PI Station Report.

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Horizontal Alignment PI Station Report.

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20016	1800+00.00	1266247.9399	400292.0400	149.93	S 88-52-57 E
20016	1800+00.00	1266247.9399	400292.0400	1200.00	S 88-52-57 E
20018	1812+00.00	1266224.5366	401491.8118	1200.00	S 88-52-57 E

Horizontal Alignment PI Station Report.

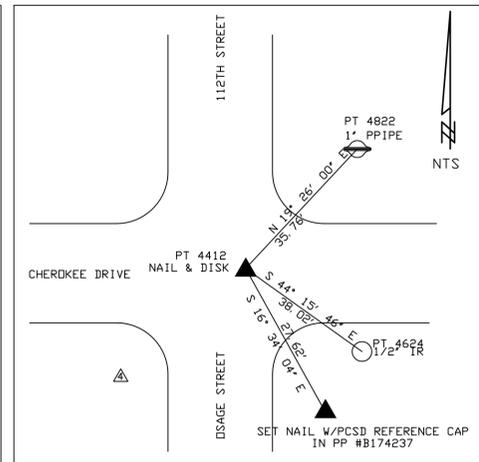
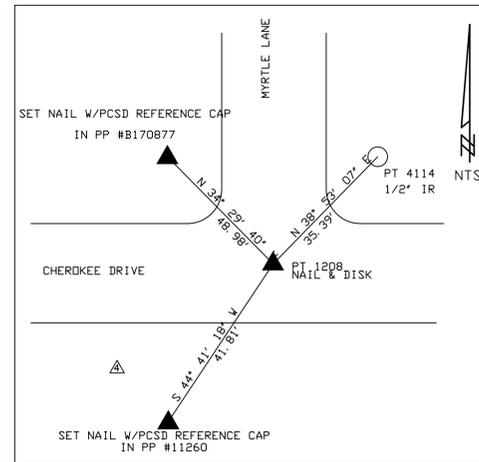
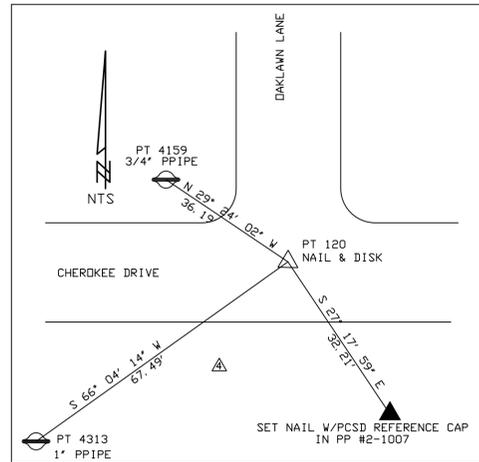
Alignment: SRL12
Desc: SEMINOLE DR

PNT#	PI Station	Northing	Easting	Distance	Direction
20020	1798+50.07	1266250.8653	400142.1402	149.93	S 88-52-57 E
20016	1800+00.00	1266247.9399	400292.0400	149.93	S 88-52-57 E
20016	1800+00.00	1266247.9399	400292.0400	1200.00	S 88-52-57 E
20018	1812+00.00	1266224.5366	401491.8118	1200.00	S 88-52-57 E

MONUMENTATION/ CONTROL POINT COORDINATES:

POINT#	LATITUDE (NORTH) FT.	DEPARTURE (EAST) FT.	ELEVATION	STATION	OFFSET	ALIGN #	DESCRIPTION
120	1266594.9084	400132.1141	11.51	410+61.07	1.21 RT	SRL4	FND NAIL W/PCSD TRAVERSE CAP
121	1267483.3396	400158.3986	23.98	710+97.65	1.88 RT	SRL6	FND NAIL W/PCSD TRAVERSE CAP
121	1267483.3396	400158.3986	23.98	608+87.53	8.22 RT	SRL6	FND NAIL W/PCSD TRAVERSE CAP
122	1267474.0943	400169.6590	27.53	717+08.93	0.00 LT	SRL7	FND NAIL W/PCSD TRAVERSE CAP
123	1267775.9289	400784.0017	24.33	717+78.74	302.46	SRL7	FND NAIL W/PCSD TRAVERSE CAP
129	1266461.2764	399042.5400	6.12	700+01.94	0.00 LT	SRL7	FND PCED STAMPED 'TURTLE 2 P' SET IN 12" ROUND CM
130	1266626.3869	399186.5959	3.66	400+15.12	11.82 LT	SRL4	FND NAIL W/PCSD TRAVERSE CAP
1201	1267867.9117	400695.0270	5.87	716+26.68	393.09 LT	SRL7	FND PK NAIL & 1 1/4" ALUMINUM PINELLAS COUNTY TRAV DISK
1202	1268180.8991	400698.7581	5.87	716+19.93	705.97 LT	SRL7	FND PK NAIL & 1 1/4" ALUMINUM PINELLAS COUNTY TRAV DISK
1203	1268153.7819	401778.3992	26.14	426+76.64	1589.47 LT	SRL4	FND PK NAIL & 1 1/4" ALUMINUM PINELLAS COUNTY TRAV DISK
1204	1267382.0146	401704.8916	23.26	426+18.20	816.42 LT	SRL4	FND PK NAIL & 1 1/4" ALUMINUM PINELLAS COUNTY TRAV DISK
1205	1267399.7183	400808.4064	26.14	608+12.22	659.24 RT	SRL6	FND PK NAIL & 1 1/4" ALUMINUM PINELLAS COUNTY TRAV DISK
1208	1266582.8719	399892.3963	9.20	408+22.24	2.08 LT	SRL4	FND PK NAIL & 1 1/4" ALUMINUM PINELLAS COUNTY TRAV DISK
1209	1267489.0965	399887.1873	18.05	500+02.05	3.47 RT	SRL5	FND PK NAIL & 1 1/4" ALUMINUM PINELLAS COUNTY TRAV DISK
1209	1267489.0965	399887.1873	18.05	508+88.14	13.05 LT	SRL5	FND PK NAIL & 1 1/4" ALUMINUM PINELLAS COUNTY TRAV DISK
1209	1267489.0965	399887.1873	18.05	708+26.38	1.41 RT	SRL7	FND PK NAIL & 1 1/4" ALUMINUM PINELLAS COUNTY TRAV DISK
1212	1267506.2950						

REFERENCES:



ABBREVIATIONS:

(C)	CALCULATED DATA	DWGS	DRIVEWAY, GRASS	LT	LEFT	SCM	SET CONCRETE MONUMENT
(M)	MEASURED (IN FIELD)	DWM	DRIVEWAY, MARL	MES	MITERED END SECTION	SE	SOUTH EAST
(P)	PLAT DATA	DWS	DRIVEWAY, STONE	MH	MANHOLE	SEC	SECTION, TOWNSHIP, RANGE
(R)	RECORD DATA	E	EAST OR EASTING	MHW	MEAN HIGH WATER	SFN	SURVEY FILE NUMBER
60D	NAIL 60D	E-W	EAST-WEST	MISC	MISCELLANEOUS	SGP	SUBMERGED GROUND POINT
A	ARC	EL	ELLIPT CMP	MLW	MEAN LOW WATER	SH	SPRINKLER HEAD
AC	ACRE(S)	EL	ELEVATION	MID-ORD	MIDDLE ORDINATE	SHV	SPRINKLER HEAD VALVE
ADS	AMERICAN DRAINAGE SYSTEMS	ENDW	ENDWALL	MON	MONUMENT	SIR	SET IRON ROD
ADSPF	AMERICAN DRAINAGE SYSTEMS PERFORATED	EP	EDGE OF PAVEMENT	MTS	MINIMUM TECHNICAL STANDARDS	SL	SURVEY LINE
AHD	AHEAD	EPA	EDGE OF PAVEMENT, ASPHALT	N	NORTH OR NORTHING	SNC	SET NAIL AND CAP
ASPH	ASPHALT	EPC	EDGE OF PAVEMENT, CONCRETE	N/A	NOT APPLICABLE	SND	SET NAIL AND DISK
AUS	AUSTRALIAN	EQ	EQUATION	N-S	NORTH-SOUTH	SNS	SET NAIL AND SHINER
AVE	AVENUE	EQUIP	EQUIPMENT	NE	NORTHEAST	SDC	SET ORANGE CAP
BC	BACK OF CURB	ER	EDGE OF ROAD	ND	NUMBER	SPLWY	SPILLWAY
BLDG	BUILDING	ERCP	ELLIPT RCP	NOS	NATIONAL OCEANIC SURVEY	SQ	SQUARE
BLVD	BULEVARD	ERM	EDGE OF ROAD, MARL	NTS	NOT TO SCALE	SR	STATE ROAD
BM	BENCHMARK	ERSH	EDGE OF ROAD, SHELL	NW	NORTHWEST	SRD	SET RED CAP
BNCH	BENCH	ES	EXISTING STORM	D/A	OVERALL	SRD	STATE ROAD DEPARTMENT
BOXC	BOX CULVERT	ESMT	EASEMENT	DAK C	DAK CLUSTER	SRL#	SURVEY REFERENCE LINE
BRCD	BARRICADE	ESS	EXISTING SANITARY SEWER	OC	ORANGE CAP	SRWB	SURFACE WATER BOUNDARY
BRG	BEARING	ET AL	AND OTHERS	OP	OPEN PIPE	SSWT	SANITARY SEWER VENT
BRUSH	BRUSH LINE	ETS	ENGINEERING AND TECHNICAL SUPPORT	DR	OFFICIAL RECORD	ST	STREET
BTMSHOT	BOTTOM SHOT	EX	EXTERNAL	DHK#	OVERHEAD UTILITY (NUMBER OF LINES)	STA	STATION
CH	CARE OF	EX	EXTERNAL	DP	DEPT OF RECORD	STY	STORY
C/D	CARE OF	FAC	FOUND CONCRETE MONUMENT	D/S	OFFSET	SUBT	SUBDIVISION TIE
CALC	CALCULATED	FEN	FENCE	PALM C	PALM CLUSTER	SW	SIDEWALK, BACK
CATCH	CATCH BASIN	FF	FLOOR ELEV	PB	PLAT BOOK	SWB	SIDEWALK, BRICK
CBS	CONCRETE BLOCK STRUCTURE	FIR	FOUND IRON ROD	PC	POINT OF CURVATURE	SWF	SIDEWALK, FACE
CC####	CERTIFIED CORNER DOCUMENT NUMBER	FL	FLOWLINE	PCC	POINT OF COMPOUND CURVATURE	SWK	SIDEWALK
CH	CHORD	FND	FOUND NAIL AND CAP	PCED	PINELLAS COUNTY ENGINEERING DEPT	SYL	SET YELLOW CAP
CIP	CAST IRON PIPE	FND	FOUND NAIL AND DISK	PCF	PINELLAS COUNTY RED CAP	T	TANGENT
CIR	CIRCLE	FND	FOUND IRON ROD	PCSD	PINELLAS COUNTY SURVEY DIVISION	TB	TOP OF BANK
CL	CENTERLINE	FNC	FOUND NAIL AND CAP	PE	POLYETHYLENE	TBAR	T-BAR PROPERTY MONUMENT
CLMED	CENTERLINE OF MEDIAN	FNDK	FOUND NAIL AND DISK	PG	PAGE	TERR	TERRACE
CLPT	CENTERLINE, PI OF	GP	GROUND POINT	PI	POINT OF INTERSECTION	TGT	TARGET
CLRR	CENTERLINE OF RAILROAD	GPR	GROUND PENETRATING RADAR	PID	PROJECT IDENTIFICATION NUMBER	THRAT	THRAT
CLSP	CENTERLINE OF SPILLWAY	FNS	FOUND NAIL AND SHINER	PINE C	PINE CLUSTER	TS	TOE OF SLOPE
CM	CONCRETE MONUMENT	FDC	FOUND ORANGE CAP	PK	PK (TRADE MARK)	TSHOLE	TEST HOLE
CMP	CORR METAL PIPE	FDP	FOUND OPEN PIPE	PL	PROPERTY LINE	UC##	UNDERGROUND COMMUNICATIONS
CNTY	COUNTY	FPPIPE	FOUND PINCHED PIPE	PLNTR	PLANTER	UD##	UNDERGROUND DRAIN PIPE
CDM	COMMUNICATIONS	FRC	FOUND RED CAP	PLS	PROFESSIONAL LAND SURVEYOR	UBX	UNDERDRAIN BOX
CDNC	CONCRETE	FRRS	FOUND RAILROAD SPIKE	PNT	POINT	UE##	UNDERGROUND ELECTRIC
CDNDD	CONDOMINIUM	FRVT	FOUND RIVET	PO	POST OFFICE	UF##	UNDERGROUND SEWER FORCE MAIN
CDNST	CONSTRUCTION	FS	FLORIDA STATUTES	POB	POINT OF BEGINNING	UG##	UNDERGROUND GAS
CDR	CORNER	FT	FEET	PRC	POINT OF REVERSE CURVATURE	UJ##	UNDERGROUND HOT OIL
CDRR	CORRUGATED	FXDL	FLEXIBLE DELINEATOR	PDL	POLYETHYLENE	UP####	UTILITY POLE NUMBER
CR	COUNTY ROAD	FYC	FOUND YELLOW CAP	PDT	POINT ON TANGENT	UR##	UNDERGROUND UNKNOWN
DB	DEED BOOK	GALV	GALVANIZED	PPPIPE	PINCHED PIPE	UR##	UNDERGROUND RECLAIMED WATER
DEI	DEPARTMENT OF ENGINEERING AND INFRASTRUCTURE	GP	GROUND POINT	PRC	POINT OF REVERSE CURVATURE	US##	UNDERGROUND SEWER GRAVITY
DEM	DEPARTMENT OF ENVIRONMENTAL MANAGEMENT	GPR	GROUND PENETRATING RADAR	PSM	PROFESSIONAL SURVEYOR AND MAPPER	UTIL	UTILITY
DEPT	DEPARTMENT OF ENVIRONMENTAL PROTECTION	GPS	GLOBAL POSITIONING SYSTEM	PT	POINT OF TANGENCY	UW##	UNDERGROUND WATER
DEPT	DEPARTMENT OF ENVIRONMENTAL PROTECTION	GRAIL	GUARD RAIL	PVC	POLYVINYL CHLORIDE	UX##	UNDERGROUND TRAFFIC SIGNAL WIRE
DESC	DESCRIPTION	GTANK	GAS TANK	PWRBX	POWER BOX	V	VERTICAL
DIA	DIAMETER	H	HILLSBOROUGH	PWRTRANS	POWER TRANSFORMER	VPI	VERTICAL PIPE
DIP	DUCTILE IRON PIPE	HB	HOSE BIB	R	RADIUS	Vvh	VERIFIED VERTICAL AND HORIZONTAL
DIPD	DUCTILE IRON PIPE, DRAINAGE	HED	HEDGE	R	REVISION NUMBER	W	WEST
DIPS	DUCTILE IRON PIPE, SEWER	H2O	WATER	RC	REINFORCED CONC PIPE	W/CAP	WITH CAP
DIPW	DUCTILE IRON PIPE, WATER	HWM	HIGH WATER MARK	RCP	REINFORCED CONC PIPE	W/D	WITHOUT
DNR	DEPARTMENT OF NATURAL RESOURCES	HWY	HIGHWAY	RD	ROAD	WB	WETLAND BOUNDARY
DDC	DEGREE OF CURVE	ID	INSIDE DIAMETER	REF	REFERENCE	WBNC	BENCH, WOOD
DDT	DEPT OF TRANSPORTATION	INW	INVERT	REINF	REINFORCED	XLK	CROSS WALK
DP	DITCH PAVEMENT	IP	IRON PIPE	RLS	REGISTERED LAND SURVEYOR	YB	YELLOW BOOK
DR	DRIVE	IR	IRON ROD	RP	RADIUS POINT	YC	YELLOW CAP
DWA	DRIVEWAY	JBOX	JUNCTION BOX	RPRP	RIPRAP	Y	DEGREE
DWB	DRIVEWAY, ASPHALT	JR	JUNCTION	RR	RAILROAD	+-	MORE OR LESS (PLUS OR MINUS)
DWC	DRIVEWAY, CONCRETE	JRCS	JUNCTION SPIKE	RT	RIGHT	"/	INCHES (IN DISTANCES)
DWD	DRIVEWAY, DIRT	L	ARC LENGTH	RDW	RIGHT-OF-WAY	"/	RIGHT
DWG	DRAWING	LABINS	LAND BOUNDARY INFORMATION SYSTEM	RVT	RIGHT-OF-WAY	"/	FEET (IN DISTANCES)
DWGRVL	DRIVEWAY, GRAVEL	LN	LANE	R/W	RIGHT-OF-WAY	"/	MINUTES (IN BEARINGS)

VERIFIED VERTICAL AND HORIZONTAL						
Vvh #	POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION	
Vvh01	3720	402+33.95	24.09 RT SRL4	EL 3.49	TOP OF 4" PE, TELEPHONE	
Vvh02	3743	402+34.11	8.60 RT SRL4	EL 0.74	TOP CL OF 8-4" PVC, TELEPHONE	
Vvh03	3749	402+93.70	11.59 RT SRL4	EL 1.67	TOP OF 6" PVC, WATER	
Vvh04	3805	406+61.46	19.50 RT SRL4	EL 4.61	TOP OF 6" X 2" TEE, WATER	
Vvh05	3806	406+61.45	19.56 RT SRL4	EL 4.61	TOP OF 6" X 2" TEE, WATER	
Vvh06	3797	406+62.00	11.53 RT SRL4	EL 4.77	TOP CL OF 8-4" PVC, TELEPHONE	
Vvh07	3789	406+61.48	24.35 RT SRL4	EL 4.73	TOP OF 2-4" PVC, TELEPHONE	
Vvh08	4536	411+80.71	15.98 RT SRL4	EL 10.00	TOP CL OF 8-4" PVC, TELEPHONE	
Vvh09	4562	411+78.95	19.03 RT SRL4	EL 10.29	TOP OF 6" PVC, WATER	
Vvh10	4583	411+85.35	26.18 RT SRL4	EL 10.11	TOP OF 2-4" PVC, TELEPHONE	
Vvh11	4552	412+22.07	18.45 RT SRL4	EL 10.31	TOP OF 6" X 6" TEE, WATER	
Vvh12	4552	412+22.07	18.45 RT SRL4	EL 10.31	TOP OF 6" X 6" TEE, WATER	
Vvh13	4541	413+31.19	13.60 RT SRL4	EL 11.82	TOP CL OF 8-4" PVC, TELEPHONE	
Vvh14	4587	413+30.02	26.09 RT SRL4	EL 12.46	TOP OF 2-4" PVC, TELEPHONE	
Vvh15	6584	702+83.76	22.59 RT SRL7	EL 5.92	TOP OF 6" PVC, WATER	
Vvh16	6599	706+94.96	22.31 RT SRL7	EL 12.87	TOP OF 6" X 6" TEE, WATER	
Vvh17	6599	706+94.96	22.31 RT SRL7	EL 12.87	TOP OF 6" X 6" TEE, WATER	
Vvh18	6600	706+95.24	3.89 LT SRL7	EL 12.73	TOP OF 6" X 6" TEE, WATER	
Vvh19	6600	706+95.24	3.89 LT SRL7	EL 12.73	TOP OF 6" X 6" TEE, WATER	
Vvh20	6623	711+10.66	4.48 LT SRL7	EL 21.01	TOP OF 6" X 2" TEE, WATER	
Vvh21	6623	711+10.66	4.48 LT SRL7	EL 21.01	TOP OF 6" X 2" TEE, WATER	
Vvh22	6651	714+14.91	4.66 LT SRL7	EL 26.48	TOP OF 6" PVC, WATER	
Vvh23	6633	713+87.92	25.05 RT SRL7	EL 26.96	TOP CL OF 2-4" PVC, TELEPHONE	
Vvh24	6424	602+72.95	216.18 RT SRL6	EL 17.59	TOP CL OF 2-4" PVC, TELEPHONE	
Vvh25	6493	604+62.25	226.85 RT SRL6	EL 21.61	TOP CL OF 2-4" PVC, TELEPHONE	
Vvh26	8952	1791+30.83	14.86 RT SRL12	EL 1.57	TOP OF 6" X 2" TEE, WATER	
Vvh27	8952	1791+30.83	14.86 RT SRL12	EL 1.57	TOP OF 6" X 2" TEE, WATER	
Vvh28	8998	1792+47.92	13.29 RT SRL12	EL 2.29	TOP OF 6" DIP, WATER	
Vvh29	9001	1792+46.40	13.13 LT SRL12	EL 4.41	TOP OF 6" PVC, WATER	
Vvh30	9044	1793+22.51	26.31 LT SRL12	EL 2.71	TOP OF 6" PVC, WATER	
Vvh31	9007	1793+46.07	23.98 LT SRL12	EL 3.46	TOP OF 6" X 2" TEE, WATER	
Vvh32	9007	1793+46.07	23.98 LT SRL12	EL 3.46	TOP OF 6" X 2" TEE, WATER	
Vvh33	9051	1002+16.27	18.41 LT SRL10	EL 2.44	TOP OF 6" PVC, WATER	
Vvh34	9109	1004+41.35	19.39 LT SRL10	EL 2.44	TOP OF 6" PVC, WATER	
Vvh35	9171	1795+11.36	22.16 LT SRL12	EL 5.05	TOP OF 6" DIP, WATER	
Vvh36	9176	1796+48.02	20.58 LT SRL12	EL 5.39	TOP OF 6" X 2" TEE, WATER	
Vvh37	9177	1796+48.02	20.58 LT SRL12	EL 5.39	TOP OF 6" X 2" TEE, WATER	
Vvh38	9181	1797+92.77	20.22 LT SRL12	EL 5.25	TOP OF 6" DIP, WATER	

REVISIONS	BY	DATE	SURVEY BOOK No. 2883-21
			YB 3097-1,3,4,5 &
			SURVEY SECTION BY DATE
			TECHNICIAN B.E. 7/12
			CHECKED D.McD. 9/12
			CHECKED S.S. 9/12
DESIGN SECTION			
			DESIGNED
			DRAWN
			CHECKED

PINELLAS COUNTY, FLORIDA
 Department of Environment and Infrastructure
 Division of Engineering and Technical Support

SURVEY AND MAPPING SECTION
 2221 U.S. HWY. 19 NORTH
 CLEARWATER, FLORIDA 33765
 PHONE (727) 464-8904

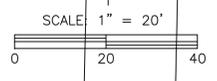
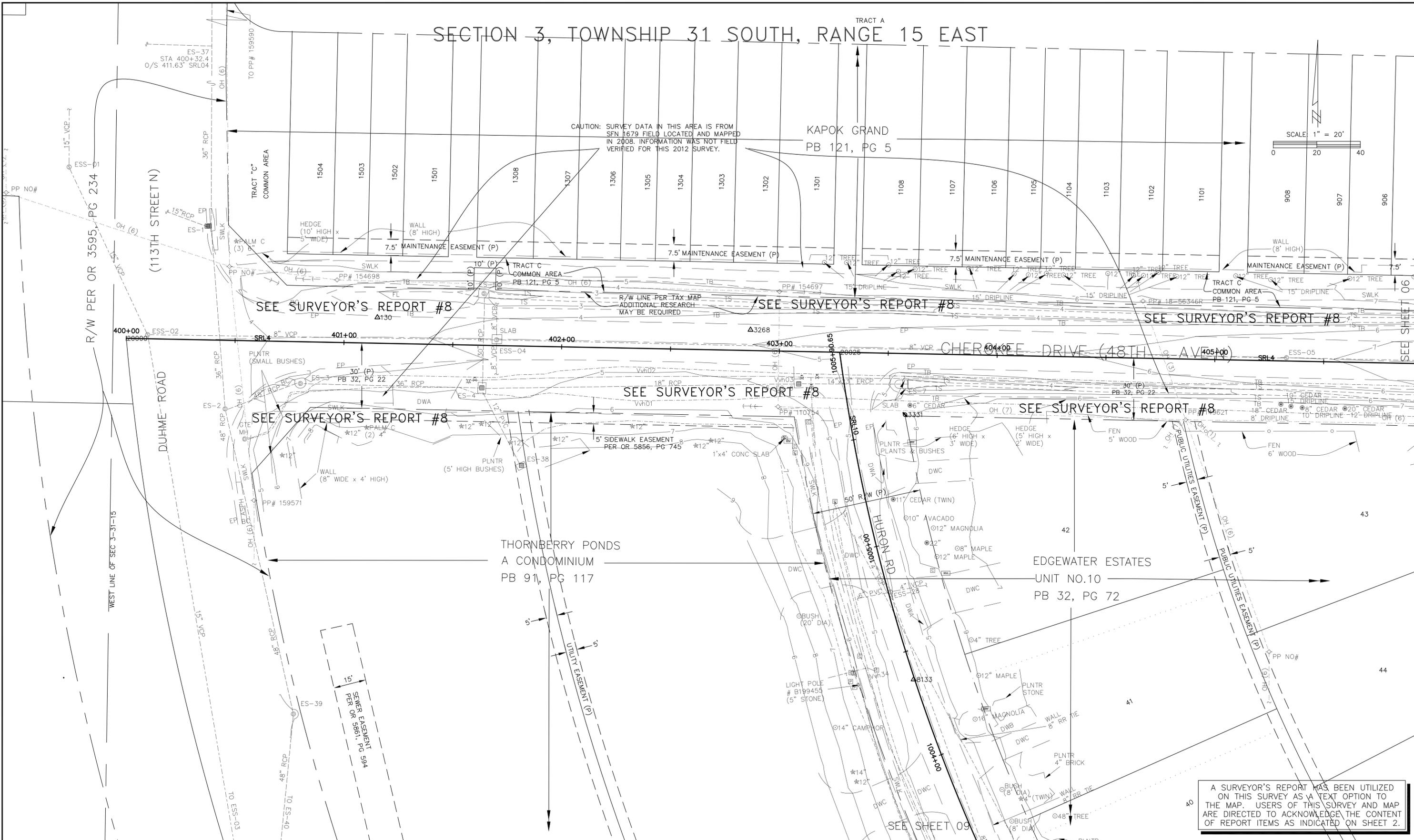
MOHEGAN ROAD at SEMINOLE DRIVE DRAINAGE IMPROVEMENTS

SUSAN C. V. SCHOLPP, P.S.M. DATE
 Professional Surveyor and Mapper
 Certificate No. 6034 SEAL

SURVEY FILE NO.: 1885
PID NO.: 000414A
F1885-c3d-2012.dwg
SHEET 04 OF 15

S:\Divisions\Survey\SFN Projects\SFN 1885\Drawings\F1885-c3d-2012.dwg, Oct 28, 2013

SECTION 3, TOWNSHIP 31 SOUTH, RANGE 15 EAST



CAUTION: SURVEY DATA IN THIS AREA IS FROM SFN 1679 FIELD LOCATED AND MAPPED IN 2008. INFORMATION WAS NOT FIELD VERIFIED FOR THIS 2012 SURVEY.

KAPOK GRAND
PB 121, PG 5

SEE SURVEYOR'S REPORT #8

THORNBERRY PONDS
A CONDOMINIUM
PB 91, PG 117

EDGEWATER ESTATES
UNIT NO.10
PB 32, PG 72

A SURVEYOR'S REPORT HAS BEEN UTILIZED ON THIS SURVEY AS A TEXT OPTION TO THE MAP. USERS OF THIS SURVEY AND MAP ARE DIRECTED TO ACKNOWLEDGE THE CONTENT OF REPORT ITEMS AS INDICATED ON SHEET 2.

S:\Divisions\Survey\SFN Projects\sf1885\Draw\1885-c3d-2012.dwg, Oct 28, 2013

REVISIONS	BY	DATE	SURVEY BOOK No. 2983-21
			BY DATE
			TECHNICIAN B.E 7/12
			CHECKED D.McD 9/12
			DESIGN SECTION S.S 9/12
			DESIGNED . . .
			DRAWN . . .
			CHECKED . . .

MOHEGAN ROAD
at
SEMINOLE DRIVE
DRAINAGE IMPROVEMENTS

TOPOGRAPHIC SURVEY

PINELLAS COUNTY, FLORIDA
DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF ENGINEERING AND TECHNICAL SUPPORT

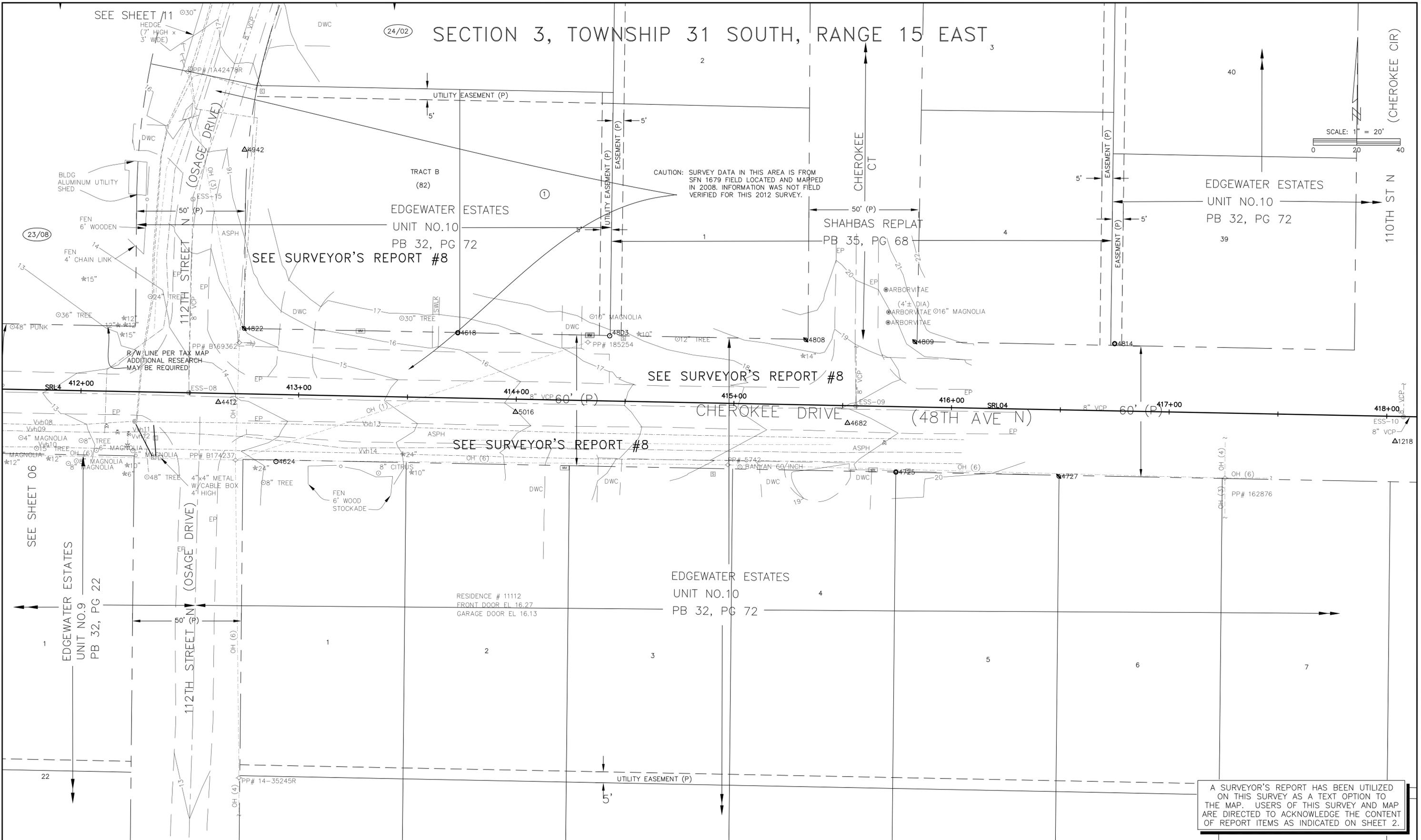
SURVEY AND MAPPING SECTION
22211 U.S. HWY. 19 NORTH
CLEARWATER, FLORIDA 33765-2347
PHONE (727) 464-8904

SUSAN C. V. SCHOLPP, P.S.M.
Professional Surveyor and Mapper
Certificate No. 6034

DATE

SURVEY FILE NO.: 1885
PID.: 000414A
f1885-c3d-2012.dwg
SHEET: 05 of 15

SECTION 3, TOWNSHIP 31 SOUTH, RANGE 15 EAST



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REVISIONS	BY	DATE	SURVEY BOOK No. 2983-21
			1,3,4,5
			BY DATE
			TECHNICIAN B.E. 7/12
			CHECKED D.McD 9/12
			CHECKED S.S. 9/12
DESIGN SECTION			
			DESIGNED . . .
			DRAWN . . .
			CHECKED . . .

MOHEGAN ROAD
at
SEMINOLE DRIVE
DRAINAGE IMPROVEMENTS

TOPOGRAPHIC SURVEY

PINELLAS COUNTY, FLORIDA
DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF ENGINEERING AND TECHNICAL SUPPORT

SURVEY AND MAPPING SECTION
22211 U.S. HWY. 19 NORTH
CLEARWATER, FLORIDA 33765-2347
PHONE (727) 464-8904

SUSAN C. V. SCHOLPP, P.S.M.
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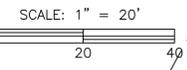
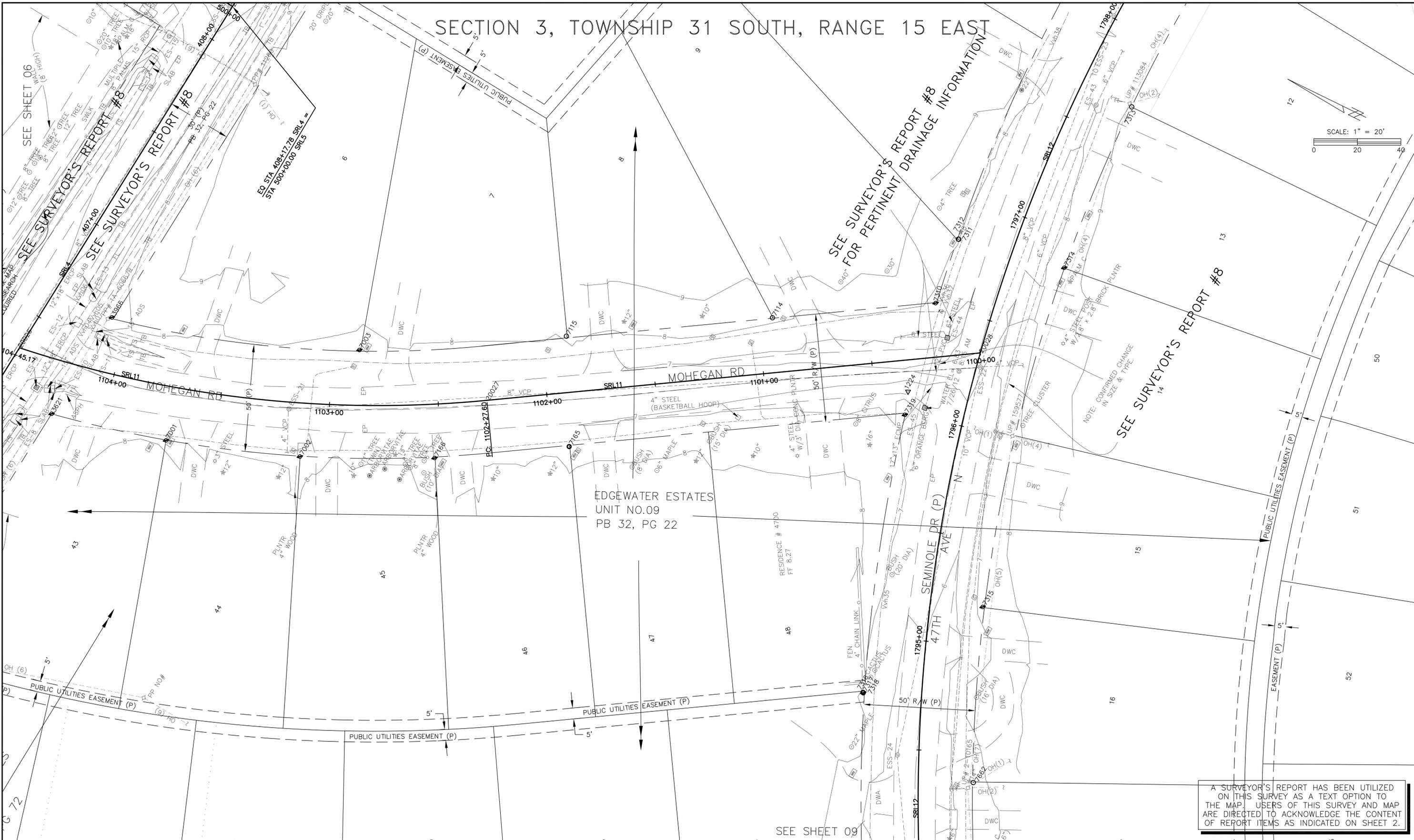
SURVEY FILE NO.: 1885

PID.: 000414A

f1885-c3d-2012.dwg

SHEET: 07 of 15

SECTION 3, TOWNSHIP 31 SOUTH, RANGE 15 EAST



A SURVEYOR'S REPORT HAS BEEN UTILIZED ON THIS SURVEY AS A TEXT OPTION TO THE MAP. USERS OF THIS SURVEY AND MAP ARE DIRECTED TO ACKNOWLEDGE THE CONTENT OF REPORT ITEMS AS INDICATED ON SHEET 2.

S:\Divisions\Survey\SFN Projects\sf1885\DWG\F1885-c3d-2012.dwg, Oct 28, 2013

REVISIONS	BY	DATE	SURVEY BOOK No.	BY	DATE
			283097-1,3,4,5 & 2983-21		
			SURVEY SECTION	B.E	7/12
			TECHNICIAN	D.McD	9/12
			CHECKED	S.S	9/12
DESIGN SECTION					
			DESIGNED		
			DRAWN		
			CHECKED		

MOHEGAN ROAD
at
SEMINOLE DRIVE
DRAINAGE IMPROVEMENTS

TOPOGRAPHIC SURVEY

PINELLAS COUNTY, FLORIDA
DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF ENGINEERING AND TECHNICAL SUPPORT

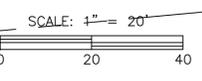
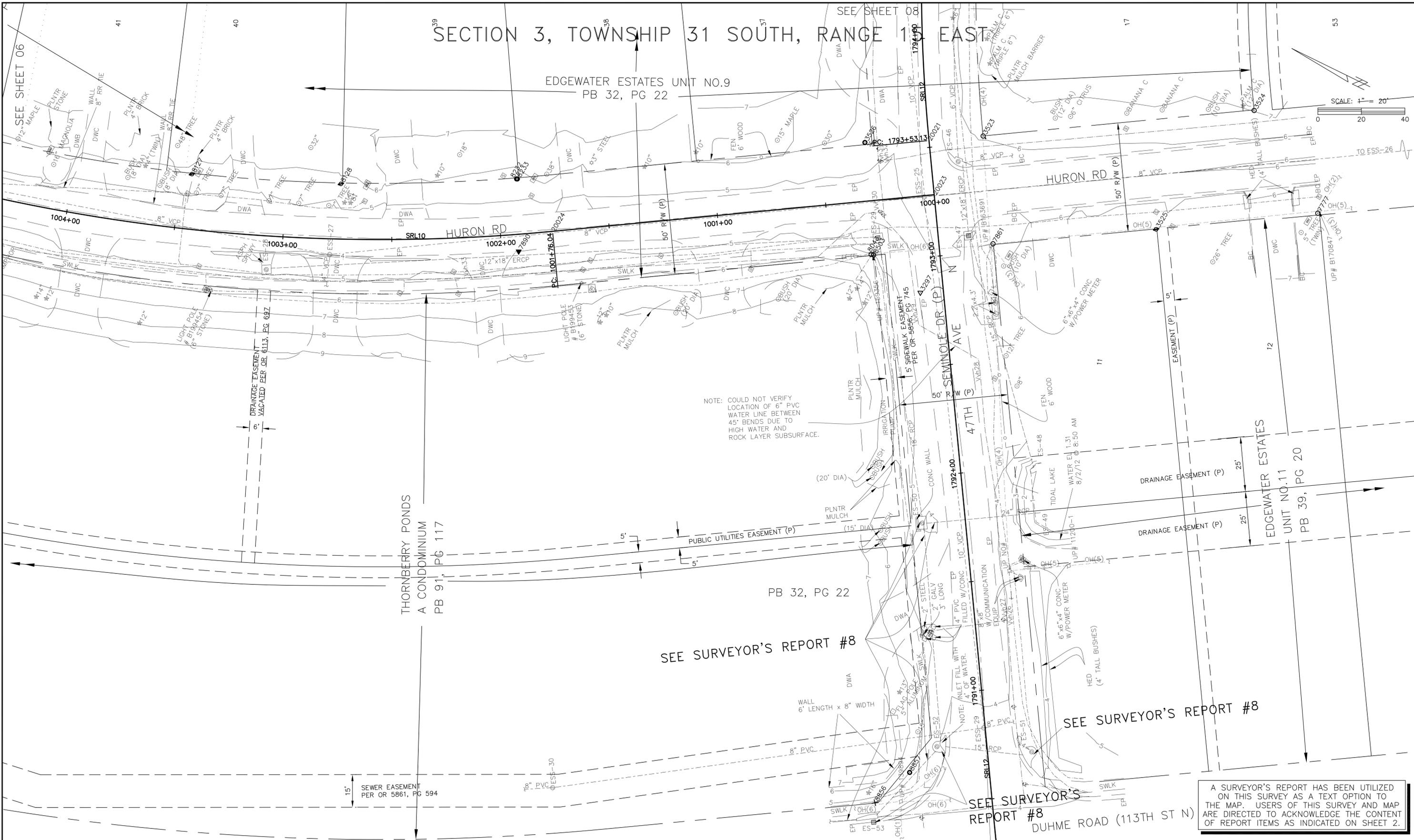
SURVEY AND MAPPING SECTION
22211 U.S. HWY. 19 NORTH
CLEARWATER, FLORIDA 33765-2347
PHONE (727) 464-8904

SUSAN C. V. SCHOLPP, P.S.M.
Professional Surveyor and Mapper
Certificate No. 6034

DATE

SURVEY FILE NO.: 1885
PID.: 000414A
f1885-c3d-2012.dwg
SHEET: 08 of 15

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REVISIONS	BY	DATE	SURVEY BOOK No. 2983-21
			7/12
			9/12
			9/12
DESIGN SECTION			
DESIGNED			
DRAWN			
CHECKED			

MOHEGAN ROAD
at
SEMINOLE DRIVE
DRAINAGE IMPROVEMENTS

TOPOGRAPHIC SURVEY

PINELLAS COUNTY, FLORIDA
DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
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SURVEY AND MAPPING SECTION
22211 U.S. HWY. 19 NORTH
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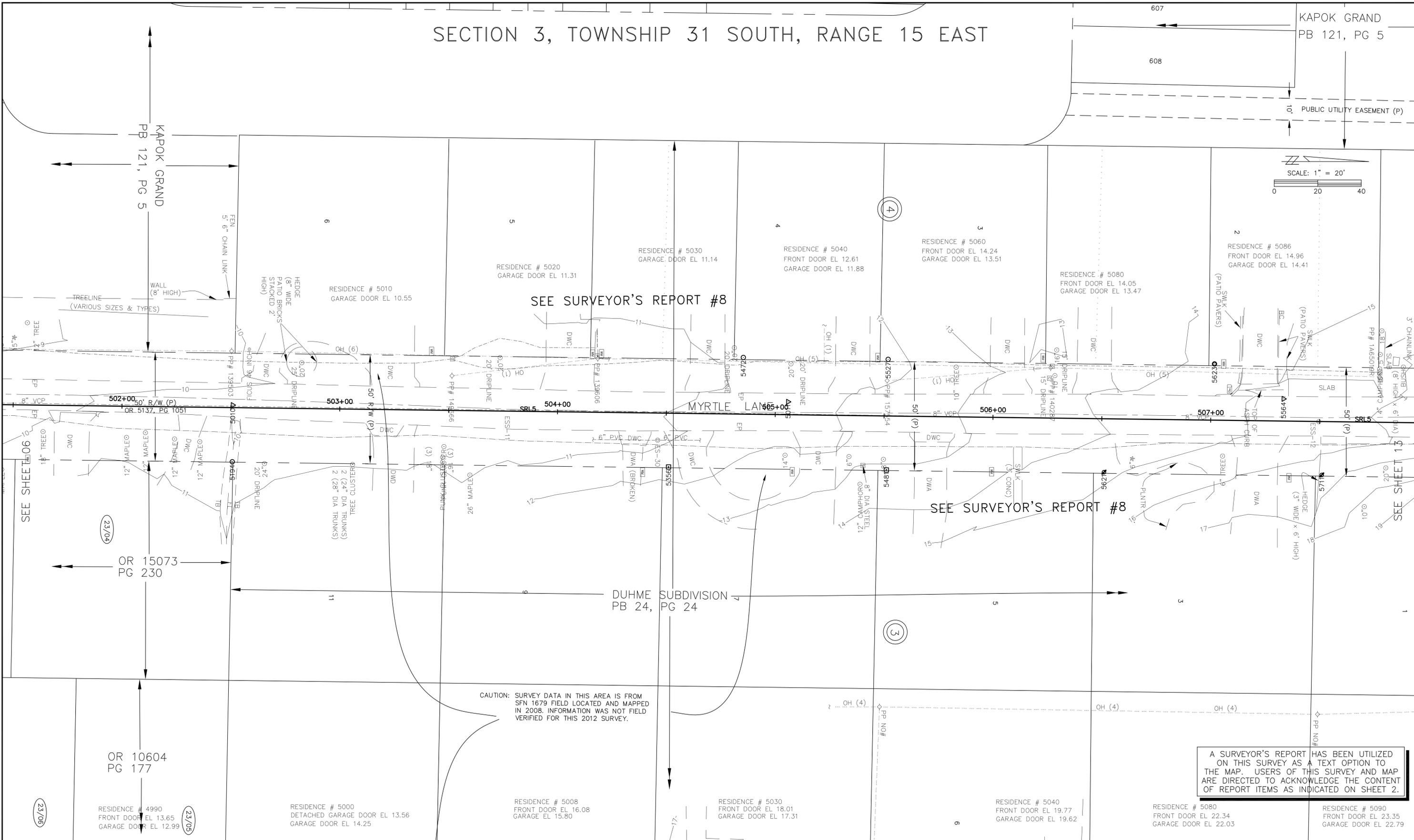
DATE

SURVEY FILE NO.: 1885
PID.: 000414A
f1885-c3d-2012.dwg
SHEET: 09 of 15

A SURVEYOR'S REPORT HAS BEEN UTILIZED ON THIS SURVEY AS A TEXT OPTION TO THE MAP. USERS OF THIS SURVEY AND MAP ARE DIRECTED TO ACKNOWLEDGE THE CONTENT OF REPORT ITEMS AS INDICATED ON SHEET 2.

SECTION 3, TOWNSHIP 31 SOUTH, RANGE 15 EAST

KAPOK GRAND
PB 121, PG 5



SEE SURVEYOR'S REPORT #8

SEE SURVEYOR'S REPORT #8

CAUTION: SURVEY DATA IN THIS AREA IS FROM SFN 1679 FIELD LOCATED AND MAPPED IN 2008. INFORMATION WAS NOT FIELD VERIFIED FOR THIS 2012 SURVEY.

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REVISIONS	BY	DATE	SURVEY BOOK No.	BY	DATE
			1885-1,3,4,5 & 2983-21		
			SURVEYED	B.E	7/12
			TECHNICIAN	D.McD	9/12
			CHECKED	S.S	9/12
DESIGN SECTION					
			DESIGNED		
			DRAWN		
			CHECKED		

MOHEGAN ROAD
at
SEMINOLE DRIVE
DRAINAGE IMPROVEMENTS

TOPOGRAPHIC SURVEY

PINELLAS COUNTY, FLORIDA
DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF ENGINEERING AND TECHNICAL SUPPORT

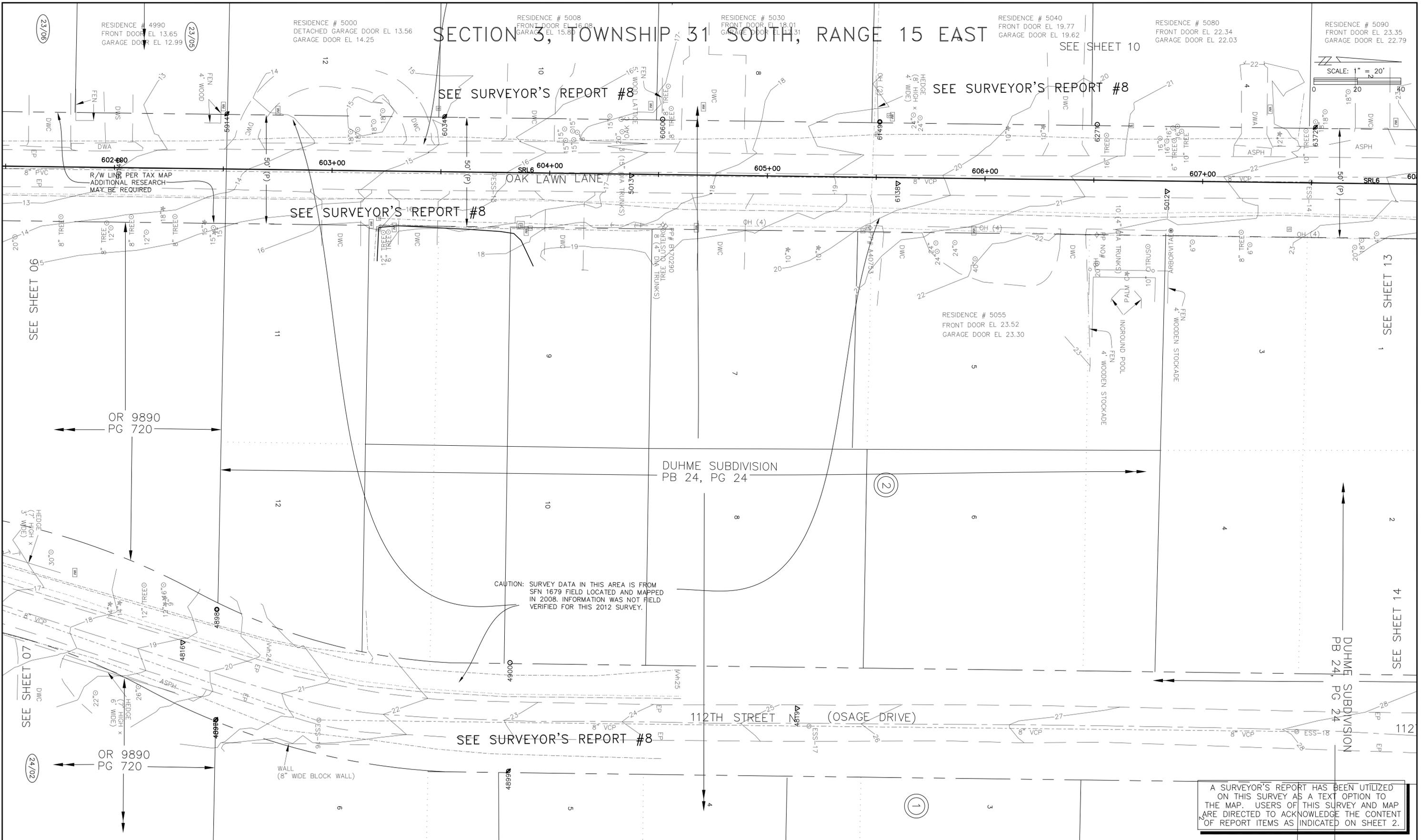
SURVEY AND MAPPING SECTION
22211 U.S. HWY. 19 NORTH
CLEARWATER, FLORIDA 33765-2347
PHONE (727) 464-8904

SUSAN C. V. SCHOLPP, P.S.M.
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Certificate No. 6034

DATE

SURVEY FILE NO.: 1885
PID.: 000414A
f1885-c3d-2012.dwg
SHEET: 10 of 15

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SECTION 3, TOWNSHIP 31 SOUTH, RANGE 15 EAST

SEE SHEET 10

SEE SURVEYOR'S REPORT #8

SEE SURVEYOR'S REPORT #8

SEE SURVEYOR'S REPORT #8

SEE SHEET 13

SEE SHEET 14

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REVISIONS	BY	DATE	SURVEY BOOK No.	BY	DATE
			2983-21	B.E	7/12
				D.McD	9/12
				S.S	9/12
DESIGN SECTION					

MOHEGAN ROAD
at
SEMINOLE DRIVE
DRAINAGE IMPROVEMENTS

TOPOGRAPHIC SURVEY

PINELLAS COUNTY, FLORIDA
DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF ENGINEERING AND TECHNICAL SUPPORT

SURVEY AND MAPPING SECTION
22211 U.S. HWY. 19 NORTH
CLEARWATER, FLORIDA 33765-2347
PHONE (727) 464-8904

SUSAN C. V. SCHOLPP, P.S.M.
Professional Surveyor and Mapper
Certificate No. 6034

DATE

SURVEY FILE NO.: 1885
PID.: 000414A
f1885-c3d-2012.dwg
SHEET: 11 of 15

SECTION 3, TOWNSHIP 31 SOUTH, RANGE 15 EAST

WEST LINE OF SEC 3-31-15



BAY PINES TERRACE
UNIT FIVE
PB 33, PG 87

CAUTION: SURVEY DATA IN THIS AREA IS FROM SFN 1679 FIELD LOCATED AND MAPPED IN 2008. INFORMATION WAS NOT FIELD VERIFIED FOR THIS 2012 SURVEY.

SEE SURVEYOR'S REPORT #8

SEE SURVEYOR'S REPORT #8

SEE SURVEYOR'S REPORT #8

SEE SURVEYOR'S REPORT #8

DUHME ROAD (113TH STREET N)

51ST AVENUE N
(CENTER AVE)

SEE SHEET 13

R/W LINE PER TAX MAP
ADDITIONAL RESEARCH
MAY BE REQUIRED

R/W LINE PER TAX MAP
ADDITIONAL RESEARCH
MAY BE REQUIRED

R/W LINE PER TAX MAP
ADDITIONAL RESEARCH
MAY BE REQUIRED

10' PUBLIC UTILITY EASEMENT (P)

10' PUBLIC UTILITY EASEMENT (P)

15'
DRAINAGE EASEMENT (P)

TRACT C
KAPOK GRAND
PB 121, PG 5

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S:\Divisions\Survey\SFN Projects\sf1885\Dwg\F1885-c3d-2012.dwg, Oct 28, 2013

REVISIONS	BY	DATE	SURVEY BOOK No.	BY	DATE
			78, 3097-1, 3, 4, 5 & 2983-21		
			SURVEYED	B.E.	7/12
			TECHNICIAN	D.McD	9/12
			CHECKED	S.S.	9/12
			DESIGN SECTION		
			DESIGNED		
			DRAWN		
			CHECKED		

MOHEGAN ROAD
at
SEMINOLE DRIVE
DRAINAGE IMPROVEMENTS

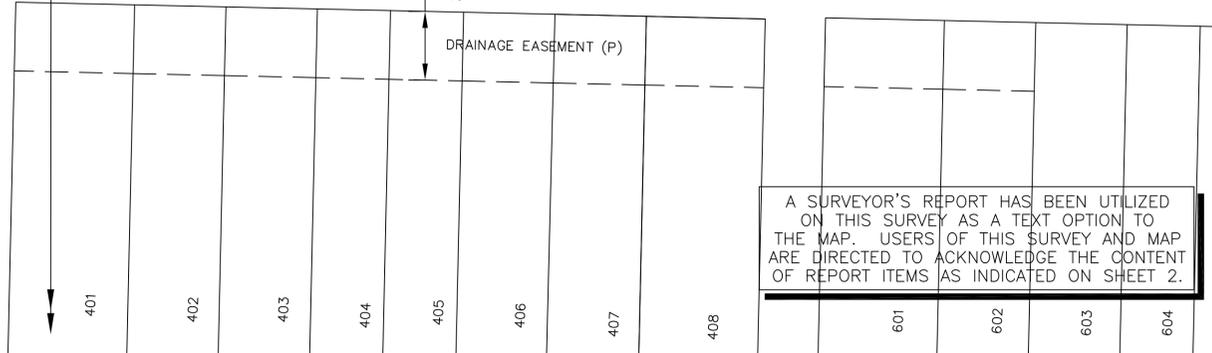
TOPOGRAPHIC SURVEY

PINELLAS COUNTY, FLORIDA
DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF ENGINEERING AND TECHNICAL SUPPORT
SURVEY AND MAPPING SECTION
22211 U.S. HWY. 19 NORTH
CLEARWATER, FLORIDA 33765-2347
PHONE (727) 464-8904

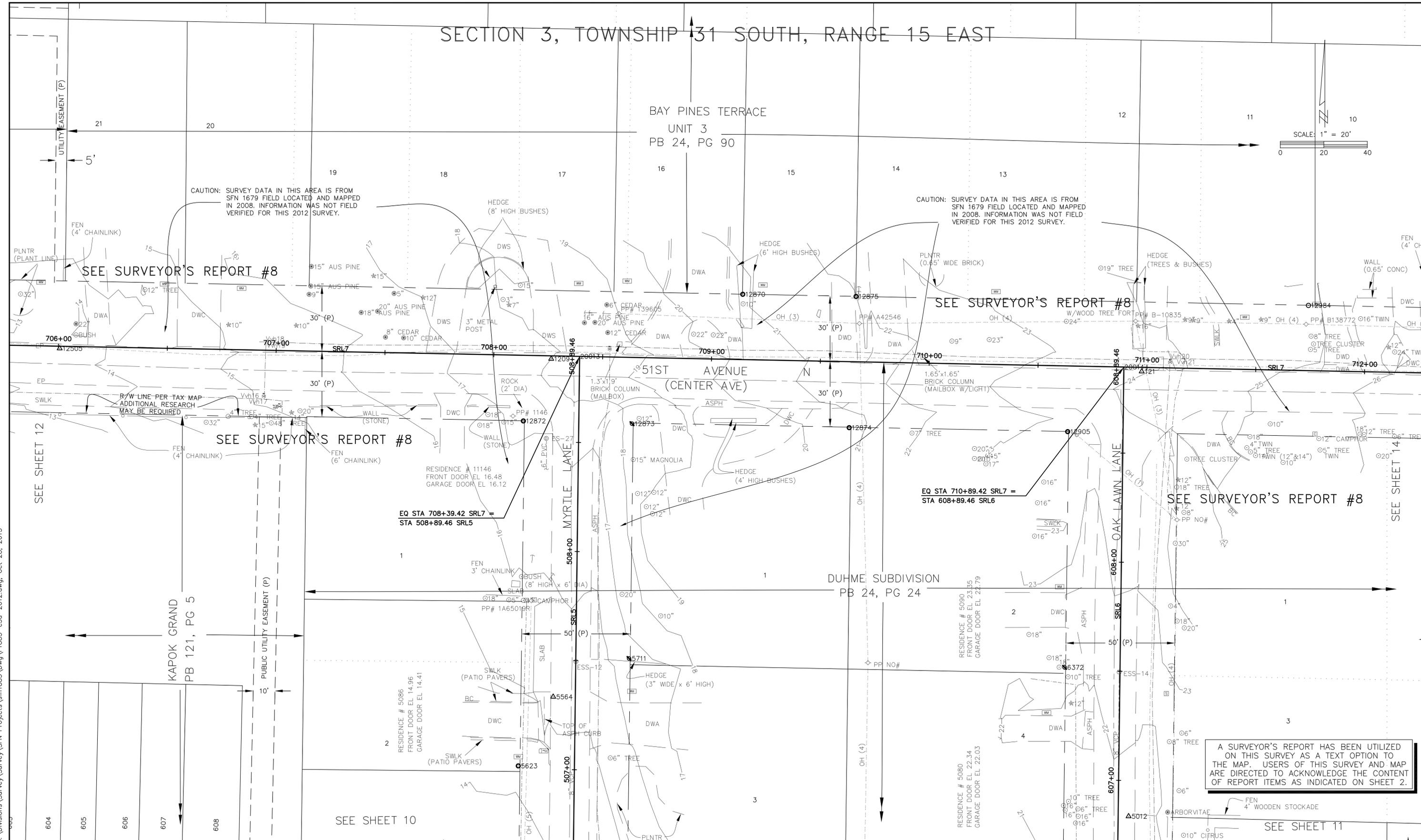
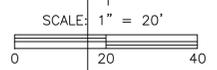
SUSAN C. V. SCHOLPP, P.S.M.
Professional Surveyor and Mapper
Certificate No. 6034

DATE

SURVEY FILE NO.: 1885
PID.: 000414A
f1885-c3d-2012.dwg
SHEET: 12 of 15



SECTION 3, TOWNSHIP 31 SOUTH, RANGE 15 EAST



S:\Divisions\Survey\SFN Projects\sf1885\Dwg\F1885-c3d-2012.dwg, Oct 28, 2013

REVISIONS	BY	DATE	SURVEY BOOK No. 2983-21
			78, 3097-1, 34, 5 &
			SURVEY SECTION
			BY DATE
			TECHNICIAN B.E. 7/12
			CHECKED D.McD 9/12
			DESIGNED S.S. 9/12
			DESIGNED
			DRAWN
			CHECKED

MOHEGAN ROAD
at
SEMINOLE DRIVE
DRAINAGE IMPROVEMENTS

TOPOGRAPHIC SURVEY

PINELLAS COUNTY, FLORIDA
DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF ENGINEERING AND TECHNICAL SUPPORT

SURVEY AND MAPPING SECTION
22211 U.S. HWY. 19 NORTH
CLEARWATER, FLORIDA 33765-2347
PHONE (727) 464-8904

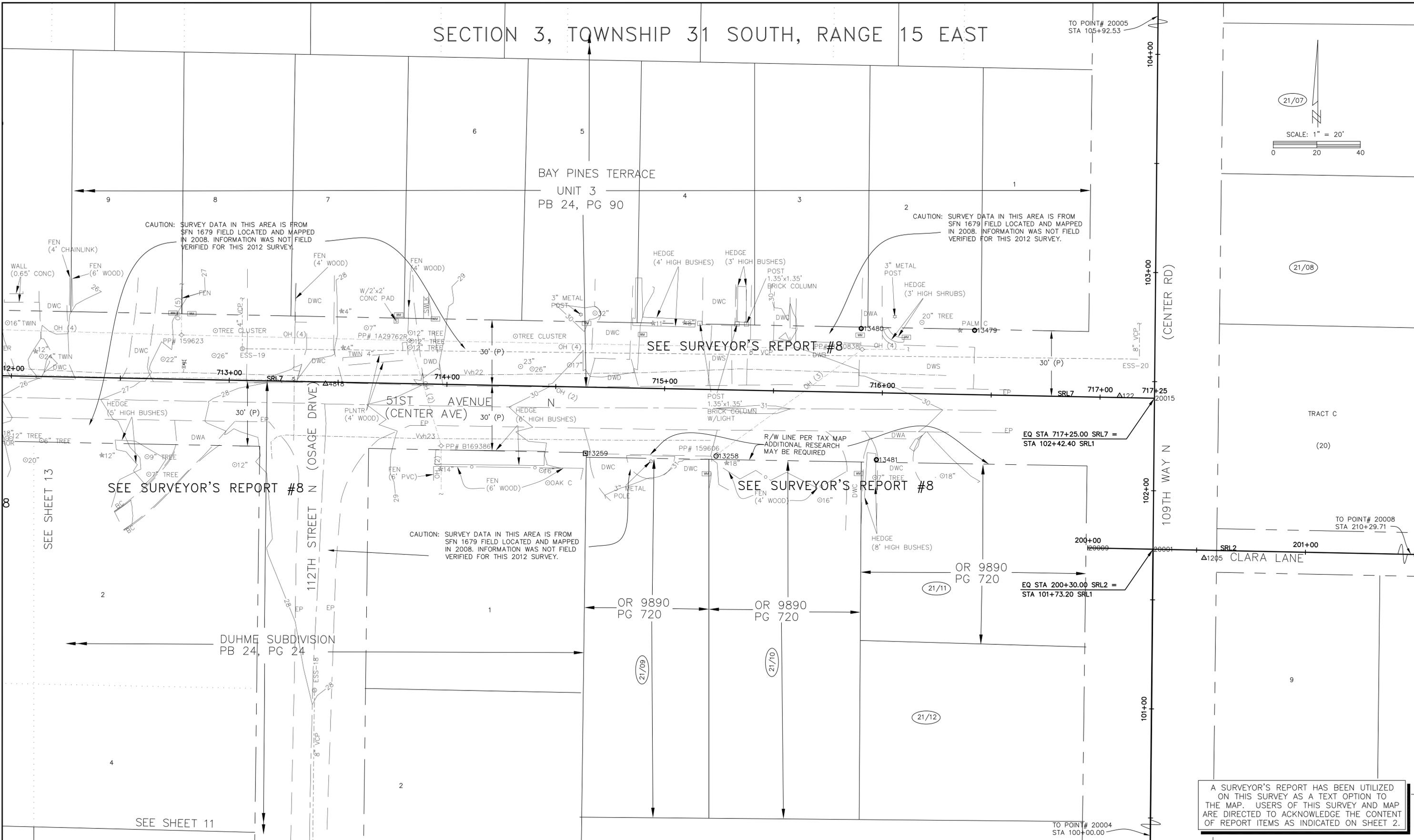
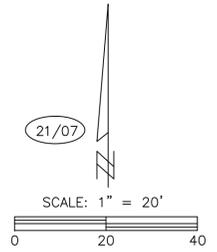
SUSAN C. V. SCHOLPP, P.S.M.
Professional Surveyor and Mapper
Certificate No. 6034

DATE

SURVEY FILE NO.: 1885
PID.: 000414A
f1885-c3d-2012.dwg
SHEET: 13 of 15

SECTION 3, TOWNSHIP 31 SOUTH, RANGE 15 EAST

TO POINT# 20005
STA 105+92.53



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REVISIONS	BY	DATE

MOHEGAN ROAD
at
SEMINOLE DRIVE
DRAINAGE IMPROVEMENTS

TOPOGRAPHIC SURVEY

PINELLAS COUNTY, FLORIDA
DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF ENGINEERING AND TECHNICAL SUPPORT

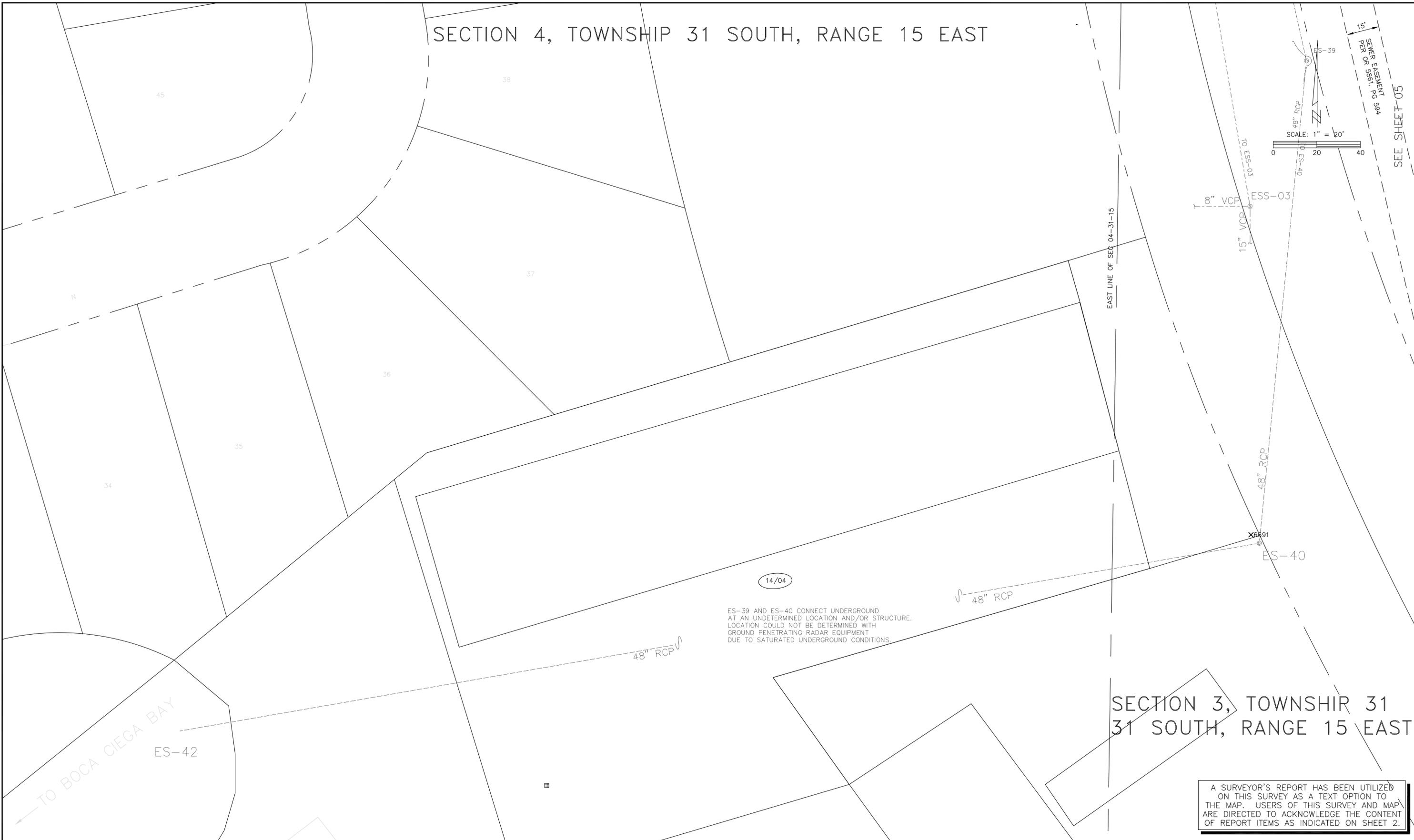
SURVEY AND MAPPING SECTION
22211 U.S. HWY. 19 NORTH
CLEARWATER, FLORIDA 33765-2347
PHONE (727) 464-8904

SUSAN C. V. SCHOLPP, P.S.M.
Professional Surveyor and Mapper
Certificate No. 6034

DATE

SURVEY FILE NO.: 1885
PID.: 000414A
f1885-c3d-2012.dwg
SHEET: 14 of 15

SECTION 4, TOWNSHIP 31 SOUTH, RANGE 15 EAST



SEE SHEET 05

ES-39 AND ES-40 CONNECT UNDERGROUND AT AN UNDETERMINED LOCATION AND/OR STRUCTURE. LOCATION COULD NOT BE DETERMINED WITH GROUND PENETRATING RADAR EQUIPMENT DUE TO SATURATED UNDERGROUND CONDITIONS.

SECTION 3, TOWNSHIP 31 SOUTH, RANGE 15 EAST

A SURVEYOR'S REPORT HAS BEEN UTILIZED ON THIS SURVEY AS A TEXT OPTION TO THE MAP. USERS OF THIS SURVEY AND MAP ARE DIRECTED TO ACKNOWLEDGE THE CONTENT OF REPORT ITEMS AS INDICATED ON SHEET 2.

S:\Divisions\Survey\SFN Projects\sf1885\Drawings\1885-c3d-2012.dwg, Oct 28, 2013

REVISIONS	BY	DATE	SURVEY BOOK No. 28397-1,3,4,5 & 2883-21
			SURVEY SECTION BY DATE
			TECHNICIAN B.E. 7/12
			CHECKED D.McD. 9/12
			CHECKED S.S. 9/12
			DESIGN SECTION
			DESIGNED . .
			DRAWN . .
			CHECKED . .

MOHEGAN ROAD
at
SEMINOLE DRIVE
DRAINAGE IMPROVEMENTS

TOPOGRAPHIC SURVEY

PINELLAS COUNTY, FLORIDA
DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE
DIVISION OF ENGINEERING AND TECHNICAL SUPPORT

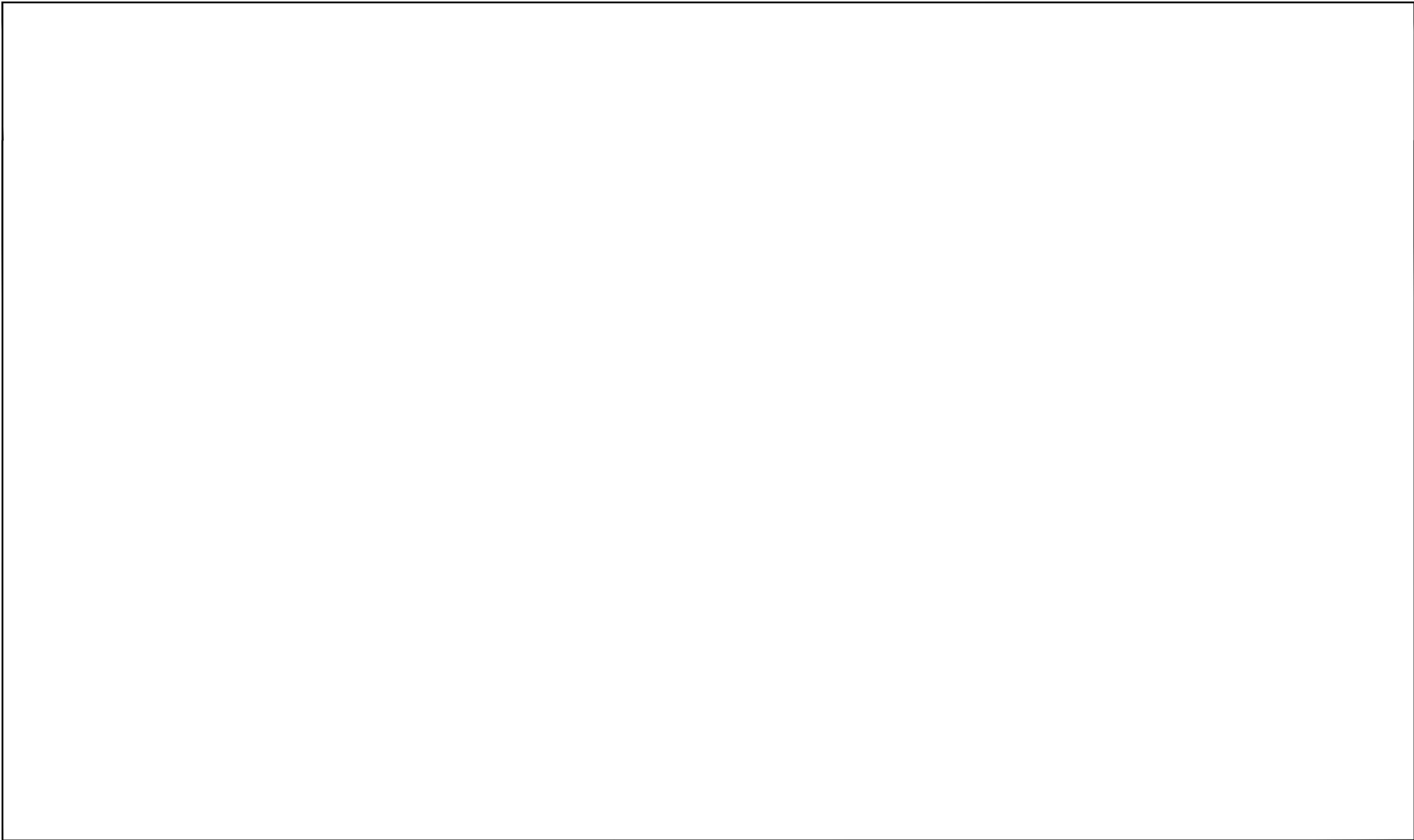
SURVEY AND MAPPING SECTION
22211 U.S. HWY. 19 NORTH
CLEARWATER, FLORIDA 33765-2347
PHONE (727) 464-8904

SUSAN C. V. SCHOLPP, P.S.M.
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DATE

SURVEY FILE NO.: 1885
PID.: 000414A
f1885-c3d-2012.dwg
SHEET: 15 of 15

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DESCRIPTION	DATE	REV.	BY

DESIGNED LDS
 DRAWN LDS
 CHECKED JW



**DIVISION OF ENGINEERING
AND TECHNICAL SUPPORT**
 14 S. FT. HARRISON AVE., CLEARWATER, FL 33756

PROJECT: CHEROKEE DRIVE
ROADWAY IMPROVEMENTS
FROM DUHME RD TO 112TH
ST

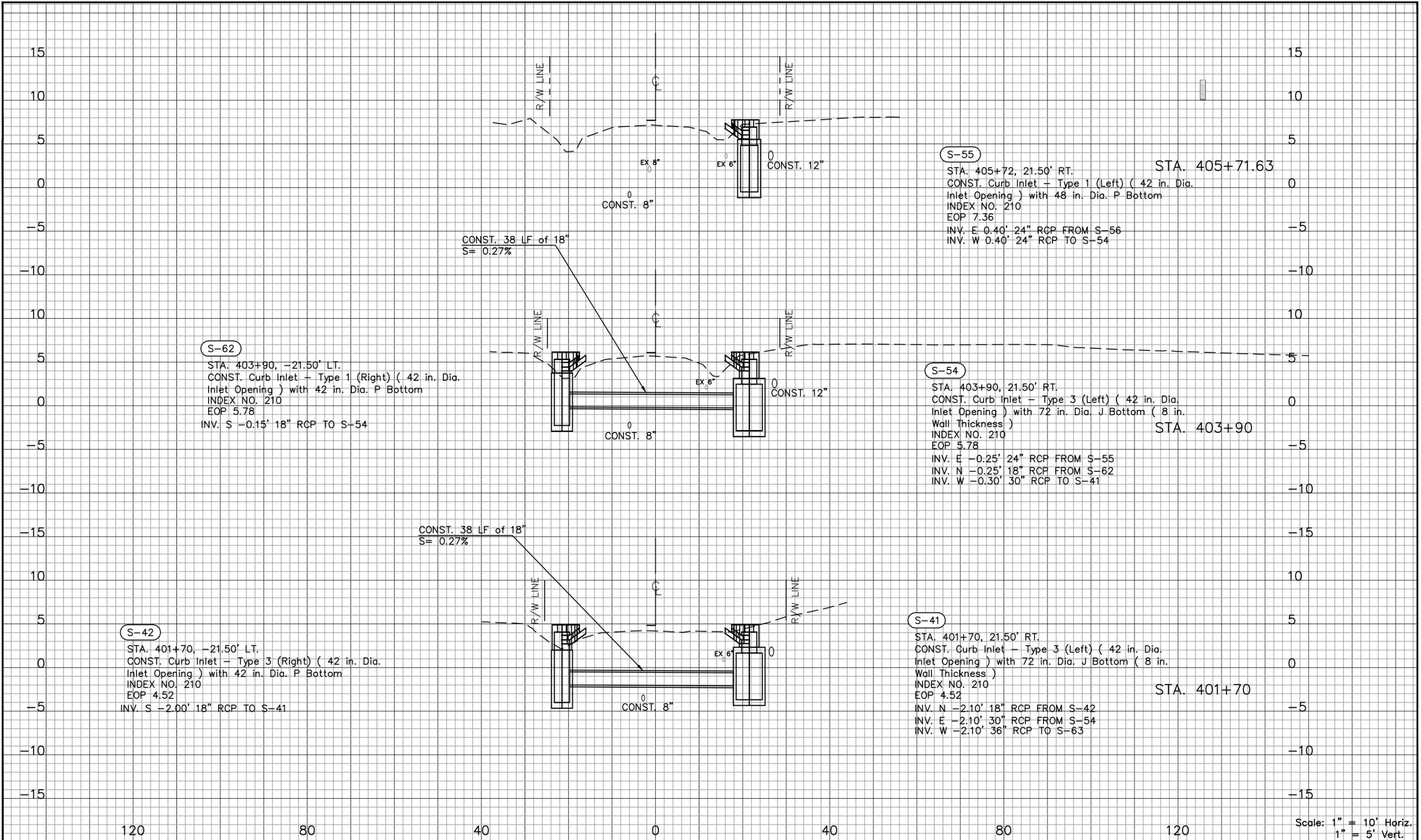
DESCRIPTION: STORM
PLAN & PROFILE
STA.406+00 TO STA.412+00

APPROVED BY: _____
DATE

DATE: 2013/2014
PROJECT NO. 005267A
SHEET: 09 OF XX

XXXX XXXXXXXX, P.E.
FLA. REG. NO XXXX-XX

C:\Users\utten84\Desktop\005267A\Plans\Production\005267A-DRST-TRY 2.dwg, Oct 29, 2013



S-42
 STA. 401+70, -21.50' LT.
 CONST. Curb Inlet - Type 3 (Right) (42 in. Dia.
 Inlet Opening) with 42 in. Dia. P Bottom
 INDEX NO. 210
 EOP 4.52
 INV. S -2.00' 18" RCP TO S-41

S-62
 STA. 403+90, -21.50' LT.
 CONST. Curb Inlet - Type 1 (Right) (42 in. Dia.
 Inlet Opening) with 42 in. Dia. P Bottom
 INDEX NO. 210
 EOP 5.78
 INV. S -0.15' 18" RCP TO S-54

S-41
 STA. 401+70, 21.50' RT.
 CONST. Curb Inlet - Type 3 (Left) (42 in. Dia.
 Inlet Opening) with 72 in. Dia. J Bottom (8 in.
 Wall Thickness)
 INDEX NO. 210
 EOP 4.52
 INV. N -2.10' 18" RCP FROM S-42
 INV. E -2.10' 30" RCP FROM S-54
 INV. W -2.10' 36" RCP TO S-63

S-54
 STA. 403+90, 21.50' RT.
 CONST. Curb Inlet - Type 3 (Left) (42 in. Dia.
 Inlet Opening) with 72 in. Dia. J Bottom (8 in.
 Wall Thickness)
 INDEX NO. 210
 EOP 5.78
 INV. E -0.25' 24" RCP FROM S-55
 INV. N -0.25' 18" RCP FROM S-62
 INV. W -0.30' 30" RCP TO S-41

S-55
 STA. 405+72, 21.50' RT.
 CONST. Curb Inlet - Type 1 (Left) (42 in. Dia.
 Inlet Opening) with 48 in. Dia. P Bottom
 INDEX NO. 210
 EOP 7.36
 INV. E 0.40' 24" RCP FROM S-56
 INV. W 0.40' 24" RCP TO S-54

Scale: 1" = 10' Horiz.
 1" = 5' Vert.

DESIGNED	XXX		DIVISION OF ENGINEERING AND TECHNICAL SUPPORT 14 S. FT. HARRISON AVE., CLEARWATER, FL 33756	PROJECT:	CHEROKEE DRIVE ROADWAY IMPROVEMENTS FROM DUHME RD TO 112TH ST	DESCRIPTION:	DRAINAGE STRUCTURE	APPROVED BY:	DATE:	2013/2014
DRAWN	XXX			PROJECT NO.	005267A	DATE	XXXX XXXXXXXX, P.E. FLA. REG. NO XXXX-XX	SHEET:	23 OF 37	
CHECKED	XXX			REV. NO.	DATE	DESCRIPTION	REV. BY			