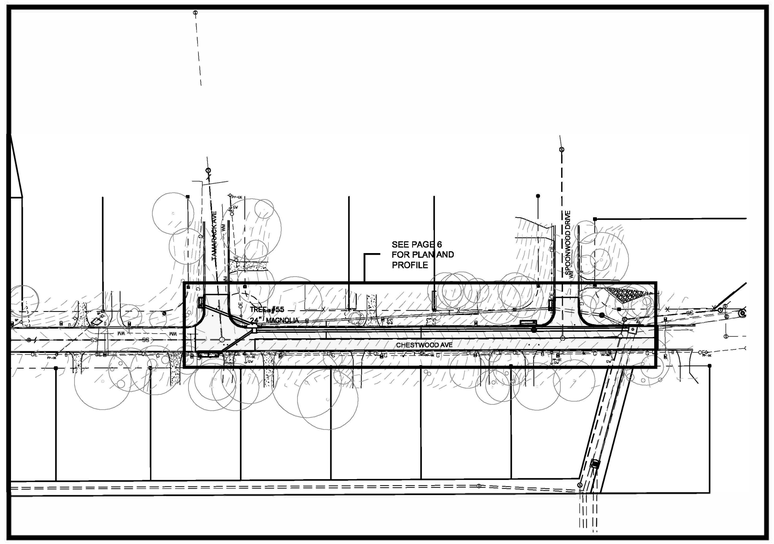
CHESTWOOD AVE DRAINAGE IMPROVEMENTS

CALL 2 BUSINESS DAYS BEFORE YOU DIG
IT'S THE LAW!
DIAL 811
Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

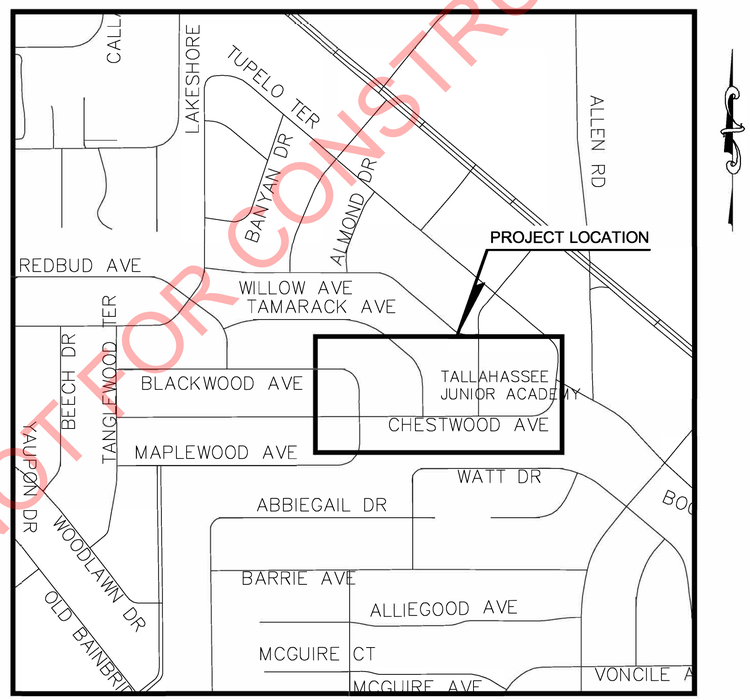
PLANS PREPARED FOR:

CITY OF TALLAHASSEE

UNDERGROUND UTILITIES & PUBLIC INFRASTRUCTURE DEPARTMENT
UU&PI ENGINEERING
STORMWATER MANAGEMENT
C.O.T. WORK ORDER NO. 1900337



PLAN AND PROFILE KEY MAP



LOCATION MAP
1" = 500'

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GOVERNING STANDARDS AND SPECIFICATIONS:

THESE DRAWINGS CONSTITUTE PROJECT CONSTRUCTION PLANS THAT ARE SUPPLEMENTAL TO VOLUME 3 OF THE WATER RESOURCES ENGINEERING CONSTRUCTION SERVICES IFB NO. 0067-17-RM-FT.

FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS 2017 AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2017 EDITION, AS AMENDED BY CONTRACT DOCUMENTS.

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.

REVISIONS			
NO.	DESCRIPTION	BY	DATE

NORTH AMERICAN VERTICAL DATUM OF 1988
PLANS PREPARED BY:

George & Associates Consulting Engineers, Inc.
CIVIL - ENVIRONMENTAL - TRANSPORTATION - SYSTEMS PLANNING - LAND USE
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1967 Commonwealth Lane, Suite 200, Tallahassee, FL 32303
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ENGINEER OF RECORD:
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APPROVED FOR CONSTRUCTION

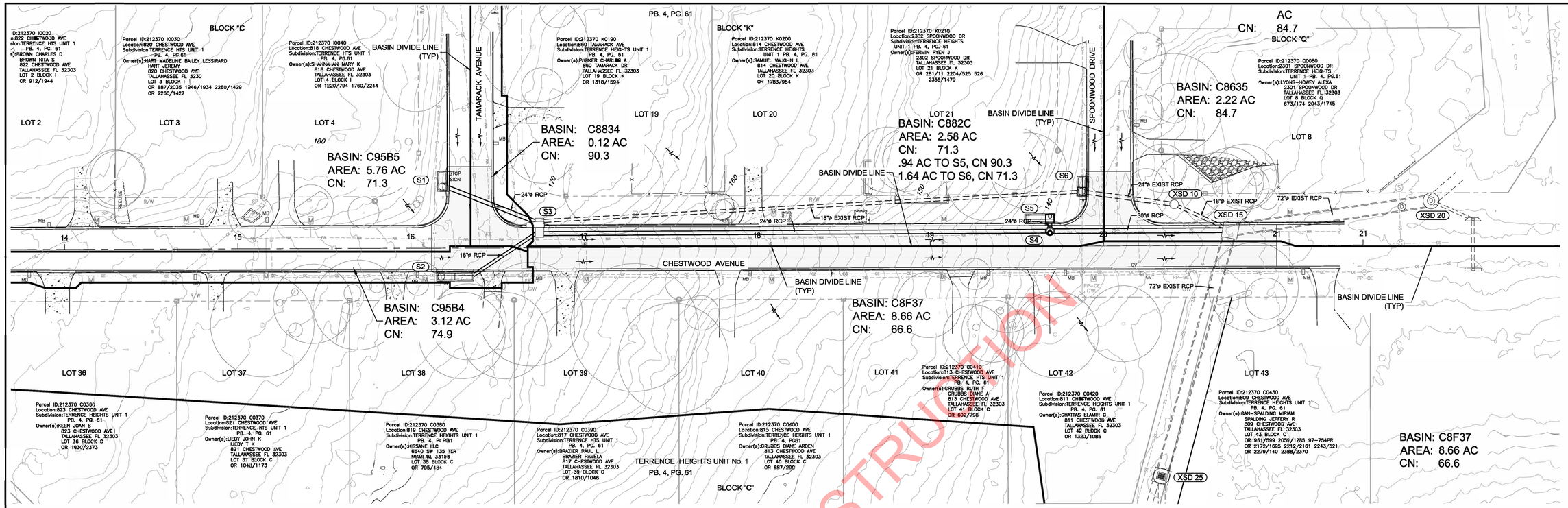
Fernando S. Francisco
STORMWATER MANAGEMENT DIVISION

DATE: 11/12/19 SET No. _____

FINAL PLANS NOVEMBER 12, 2019

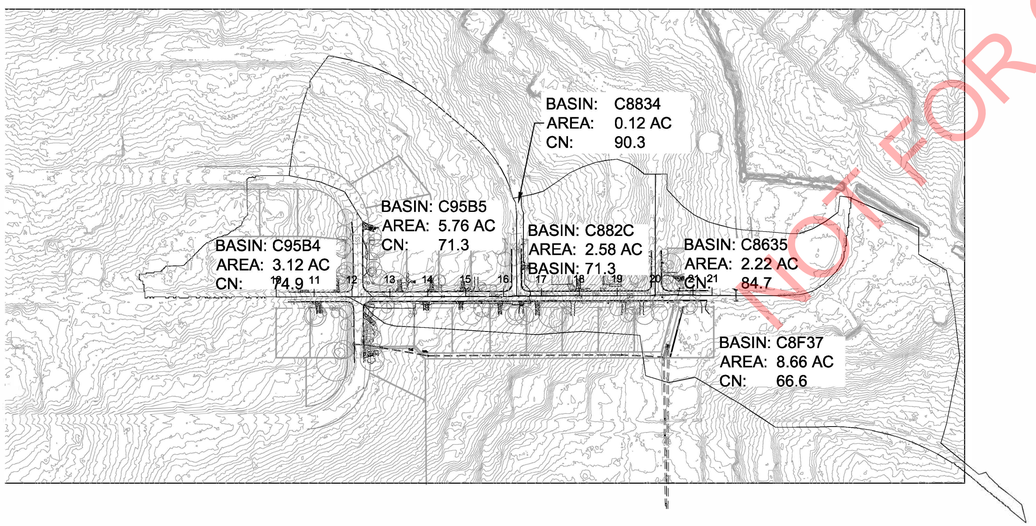
CHESTWOOD AVE DRAINAGE IMPROVEMENTS

Larry Richards 11/12/2019 P:\Projects\19--5395 Chestwood Ave Drainage Improvements\Drawings\Civil\1 Cover Sheet.dwg



DRAINAGE MAP

SCALE:1" = 30'



OVERALL DRAINAGE BASIN MAP

SCALE:1" = 200'

DRAINAGE STRUCTURE TABLE					
Structure Name	Description	Station	Offset	INFLOW PIPE	OUTFLOW PIPE
S1	4' WIDE SP-HC CURB INLET WITH 10' THROAT	16+18.18	35.51 LT		24"ø RCP (E) @ Inv El: 166.62
S2	4' WIDE SP-HC CURB INLET WITH 20' THROAT	16+33.51	16.43 RT		18"ø RCP (NE) @ Inv El: 165.50
S3	TYPE J-5 CURB INLET WITH 4'x10' ALT B BOTTOM	16+74.35	11.66 LT	24"ø RCP (W) @ Inv El:162.60 18"ø RCP (SW) @ Inv El:162.85	24"ø RCP (E) @ Inv El: 162.50 18"ø EXIST RCP (E) @ Inv El: 163.30
S4	PB MH 4' Dia	19+69.12	8.61 LT	24"ø RCP (W) @ Inv El:134.25 24"ø RCP (N) @ Inv El:133.25	30"ø RCP (E) @ Inv El: 127.50
S5	4' WIDE SP-HC CURB INLET WITH 16' THROAT	19+69.17	15.99 LT		24"ø RCP (S) @ Inv El: 133.65
S6	4' WIDE SP-HC CURB INLET WITH 10' THROAT	19+87.46	31.33 LT	18"ø EXIST RCP (W) @ Inv El:133.32	24"ø EXIST RCP (E) @ Inv El: 132.39
XSD 10	EXISTING MH	20+41.01	23.83 LT	24"ø EXIST RCP (W) @ Inv El:129.06	18"ø EXIST RCP (SE) @ Inv El: 128.98
XSD 15	EXISTING MH	20+73.44	8.81 LT	18"ø EXIST RCP (NW) @ Inv El:125.17 30"ø RCP (W) @ Inv El:123.00	72"ø EXIST RCP (E) @ Inv El: 117.43 72"ø EXIST RCP (S) @ Inv El: 117.43

Vertical Datum: NAVD 88
CN IS COMPOSITE VALUE

30 0 15 30
1 inch = 30 ft.

JOSEPH W. MILLER LICENSE No 49889 STATE OF FLORIDA PROFESSIONAL ENGINEER

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1967 COMMONWEALTH LANE, SUITE 200
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FINAL PLANS NOVEMBER 12, 2019

ENGINEER OF RECORD
Joseph W. Miller
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P.E. NO. 49889
Signature Date

ORIGINAL
REVISIONS. 1 2 3 4 5

SHEET
DRAINAGE MAP

PROJECT
CHESTWOOD AVE
DRAINAGE
IMPROVEMENTS

George & Associates
Consulting Engineers, Inc.
CIVIL - ENVIRONMENTAL - TRANSPORTATION - SYSTEMS PLANNING - LAND DEV.
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JOB No.	19-5395
DRAWN	LJR
DESIGNED	J.W.M.
CHECKED	J.W.M.
QC	J.W.M.

SHEET 2

GENERAL NOTES:

1. THE CONTRACTOR SHALL HAVE ALL REQUIRED PERMITS IN-HAND PRIOR TO BEGINNING CONSTRUCTION, AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMITS OBTAINED BY THE CITY AND THOSE PERMITS OBTAINED BY THE CONTRACTOR.

2. AT LEAST THREE CALENDAR DAYS PRIOR TO THE PRECONSTRUCTION CONFERENCE; THE CONTRACTOR SHALL SUBMIT A TENTATIVE BASE CONSTRUCTION SCHEDULE, A TRAFFIC CONTROL PLAN, A PRECONSTRUCTION SURVEY, AND A SEDIMENT AND EROSION CONTROL PLAN TO THE ENGINEER FOR APPROVAL. NO WORK SHALL BEGIN PRIOR TO APPROVAL OF THE CONSTRUCTION SCHEDULE, TRAFFIC CONTROL PLAN, PRECONSTRUCTION SURVEY, AND SEDIMENT AND EROSION CONTROL PLAN.

3. THE CONSTRUCTION SCHEDULE SHALL DESCRIBE IN DETAIL HOW THE CONSTRUCTION IS TO BE PHASED, ESTABLISH START AND FINISH DATES FOR ALL SIGNIFICANT CONSTRUCTION ACTIVITIES, AND IDENTIFY ALL CONTROLLING ITEMS OF WORK. THE SCHEDULE IS TO BE APPROVED BY THE ENGINEER, AND SHALL BE UPDATED ON A MONTHLY BASIS TO REFLECT ACTUAL WORK PROGRESS. THE UPDATED SCHEDULE SHALL BE SUBMITTED TO THE ENGINEER NO LATER THAN THREE DAYS PRIOR TO EACH SCHEDULED MONTHLY PROGRESS MEETING. PAYMENT FOR PREPARING, UPDATING AND SUBMITTING THE SCHEDULE SHALL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION.

4. THE PRECONSTRUCTION SURVEY SHALL VERIFY THE CONTROL POINTS AND BENCH MARK ELEVATIONS PROVIDED BY THE ENGINEER AND SHALL ALSO ESTABLISH THE LOCATION AND DESCRIPTION OF ALL ADDITIONAL REFERENCE POINTS AND THE LOCATIONS, DESCRIPTIONS, AND ELEVATIONS OF ALL ADDITIONAL BENCHMARKS TO BE USED IN CONSTRUCTING THE PROJECT. THE SURVEY SHALL BE SIGNED AND SEALED BY A PROFESSIONAL SURVEYOR AND MAPPER REGISTERED IN THE STATE OF FLORIDA. SIGNIFICANT INCONSISTENCIES BETWEEN THE FIELD NOTES AND THE CONTROL POINTS AND BENCH MARK ELEVATIONS PROVIDED BY THE ENGINEER SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO THE ISSUANCE OF THE NOTICE TO PROCEED. PAYMENT SHALL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION.

5. GEOTECHNICAL INFORMATION SHOWN ON THE DRAWINGS WAS OBTAINED FOR USE IN ESTABLISHING DESIGN CRITERIA FOR THE PROJECT. THIS INFORMATION MAY NOT ACCURATELY REFLECT ACTUAL SOIL CONDITIONS AS TO THE DEPTH, EXTENT OR CHARACTER OF THE MATERIAL TO BE ENCOUNTERED IN CONSTRUCTION OF THE PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE SUCH EXAMINATION OF THE SITE AS MAY BE NECESSARY TO DETERMINE THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED.

6. THE CONTRACTOR IS RESPONSIBLE FOR PRESERVING ALL PROPERTY CORNERS AND MONUMENTS SHOWN ON THE DRAWINGS OR FOUND DURING CONSTRUCTION. IF A PROPERTY CORNER OR MONUMENT IS DESTROYED OR DISTURBED, THE CONTRACTOR SHALL HAVE IT REPLACED AND CERTIFIED BY A PROFESSIONAL SURVEYOR AND MAPPER REGISTERED IN THE STATE OF FLORIDA. ALL COSTS FOR PRESERVING, REPLACING AND CERTIFYING PROPERTY CORNERS AND MONUMENTS WILL BE INCLUDED IN THE PAYMENT FOR MOBILIZATION.

7. ANY NATIONAL GEODETIC SURVEY MONUMENT WITHIN THE LIMITS OF CONSTRUCTION MUST BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND:

   FDEP, BUREAU OF SURVEY AND MAPPING, MS 100
   3900 COMMONWEALTH BLVD.
   TALLAHASSEE, FLORIDA 32399
   850-245-2555 (OFFICE)
   850-245-2572 (FAX)

8. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON INFORMATION PROVIDED BY THE UTILITY OWNERS, AVAILABLE RECORDS, AND SURVEYED FIELD INFORMATION. THE INFORMATION MAY NOT REFLECT ACTUAL CONDITIONS, INCLUDE ALL UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE CORRECT HORIZONTAL OR VERTICAL LOCATIONS. THE CONTRACTOR SHALL MAKE HIS/HER OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS NECESSARY TO ESTABLISH THEIR LOCATIONS AND AVOID DAMAGE. THE FOLLOWING UTILITIES SHOULD BE CONTACTED FOR INFORMATION CONCERNING TYPE AND LOCATION OF THEIR FACILITIES. THE LIST MAY NOT INCLUDE ALL UTILITIES IN THE AREA.

SUNSHINE STATE ONE-CALL OF FLORIDA	811 OR 800-432-4770 (5 DAYS NOTIFICATION PRIOR TO CONSTRUCTION)
CITY OF TALLAHASSEE/ELECTRICAL UTILITY	850-891-5091
CITY OF TALLAHASSEE/GAS UTILITY	850-891-5100
CITY OF TALLAHASSEE/WATER UTILITY	850-891-6107
CITY OF TALLAHASSEE/SEWER UTILITY	850-891-6107
COMCAST (CABLE TELEVISION)	850-574-4060
CENTURYLINK (TELEPHONE)	850-599-1502
AT&T (COMMUNICATIONS)	850-242-9087
SOUTHERN LIGHT (COMMUNICATIONS)	251-662-1170

9. PRIOR TO ANY SCHEDULED INTERRUPTION OF UTILITY SERVICE, THE CONTRACTOR SHALL COORDINATE SUCH INTERRUPTION WITH THE UTILITY PROVIDER AND SHALL PROVIDE A MINIMUM 24-HOUR NOTICE TO THE AFFECTED PARTIES. IN THE CASE OF A WATER MAIN SHUT DOWN, A MINIMUM 24-HOUR NOTICE ALSO SHALL BE PROVIDED TO THE TALLAHASSEE FIRE DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE ELECTRIC UTILITY A MINIMUM OF TWO WEEKS PRIOR TO CONSTRUCTION IN THE VICINITY OF THEIR FACILITIES.

10. THE CONTRACTOR SHALL NOTIFY THE GAS UTILITY (850-891-5100) A MINIMUM OF TWO WORKING DAYS PRIOR TO ANY EXCAVATION IN THE VICINITY OF GAS MAINS, AS REQUIRED BY CHAPTER 77-153 OF THE FLORIDA STATUTES. A GAS DEPARTMENT INSPECTOR SHALL BE ON SITE WHEN WORK ACTIVITIES TAKE PLACE NEAR GAS MAINS. A MINIMUM OF 72 HOURS NOTICE SHALL BE PROVIDED FOR ANY REQUEST FOR GAS MAIN EXPOSURE OR ADJUSTMENT.

11. ALL UTILITIES IN CONFLICT WITH CONSTRUCTION ARE TO BE ADJUSTED OR RELOCATED BY OTHERS UNLESS NOTED OTHERWISE ON THE DRAWINGS OR DIRECTED BY THE ENGINEER.

12. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL VALVE BOXES ON GAS AND WATER MAINS WITHIN THE LIMITS OF CONSTRUCTION THAT ARE TO REMAIN IN SERVICE. PRIOR TO COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL ADJUST ALL VALVE BOXES WITHIN CONSTRUCTION AREAS SO THE TOPS ARE FLUSH WITH FINISHED PAVEMENT OR WITH FINISHED GRADE IN UNPAVED AREAS.

13. WHERE THE REQUIRED MINIMUM SEPARATION BETWEEN UTILITIES IS SPECIFIED, THE DISTANCE SHALL BE MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.

14. LIMITS OF CONSTRUCTION ARE DEFINED IN THE PLANS AND CONSIST OF ROADWAY RIGHTS-OF-WAY, CITY OF TALLAHASSEE PROPERTIES, DRAINAGE RIGHTS-OF-WAY, PERMANENT DRAINAGE AND/OR UTILITY EASEMENTS, AND TEMPORARY CONSTRUCTION EASEMENTS.

15. NO TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT.

16. ALL EXISTING DRAINAGE STRUCTURES AND PIPES, PAVEMENT, SIDEWALKS, CURBS, ETC., WITHIN THE LIMITS OF CONSTRUCTION ARE TO REMAIN UNLESS OTHERWISE NOTED ON THE DRAWINGS OR DIRECTED BY THE ENGINEER. ALL DRAINAGE STRUCTURES, PIPES, PAVEMENT, SIDEWALKS, CURBS, ETC., THAT ARE TO REMAIN ARE THE RESPONSIBILITY OF THE CONTRACTOR, AND IF DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED WITH THE SAME TYPE AND MATERIAL AT NO COST TO THE CITY.

17. ALL STORM MANHOLES OR STRUCTURES DESIGNATED TO BE ABANDONED IN PLACE SHALL BE REMOVED TO A MINIMUM OF THREE FEET BELOW GRADE AND FILLED WITH COMPACTED SAND.

18. EXISTING CONCRETE AND ASPHALTIC CONCRETE DRIVEWAYS AND SIDEWALKS SHALL BE SAW-CUT AS REQUIRED FOR CONSTRUCTION.

19. ALL SIDEWALKS AND CURB RAMPS REMOVED DURING CONSTRUCTION SHALL BE RECONSTRUCTED TO MEET CURRENT ADA STANDARDS.

20. THE CONTRACTOR SHALL PUT FORTH EVERY REASONABLE EFFORT TO MINIMIZE DISRUPTION AND DISTURBANCE OF ADJACENT PROPERTIES. ACCESS BY PROPERTY OWNERS AND RESIDENTS TO THEIR PROPERTY SHALL BE MAINTAINED AT ALL TIMES., AND ANY BARRICADING OF ACCESS MUST BE COORDINATED WITH THE AFFECTED PROPERTY OWNERS AND RESIDENTS.

21. ALL FENCES IN CONFLICT WITH CONSTRUCTION SHALL BE REMOVED AND REPLACED IN THEIR ORIGINAL LOCATIONS OR IN OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. THE CONTRACTOR MAY, AT HIS OPTION, USE NEW FENCING MATERIAL OF THE SAME TYPE THAT WAS REMOVED OR REUSE THE FENCING MATERIAL THAT WAS REMOVED IF IT IS UNDAMAGED BY CONSTRUCTION ACTIVITIES. ALL FENCES DAMAGED BY CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH NEW FENCING MATERIAL OF THE SAME TYPE THAT WAS REMOVED.

22. THE CONTRACTOR SHALL EXERCISE DUE CARE IN THE REMOVAL OF EXISTING FENCES TO MAINTAIN SECURITY AT THE AFFECTED PROPERTIES AND TO ENSURE THE SAFETY OF PETS, ANIMALS AND CHILDREN. IF IN THE OPINION OF THE ENGINEER, REMOVAL OF A FENCE WILL RESULT IN AN UNACCEPTABLE REDUCTION IN SECURITY OR SAFETY, THE CONTRACTOR SHALL INSTALL A TEMPORARY FENCE AS DIRECTED BY THE ENGINEER PRIOR TO REMOVAL OF THE EXISTING FENCE. THE TEMPORARY FENCE SHALL REMAIN IN PLACE UNTIL THE PERMANENT FENCE IS INSTALLED.

23. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL TREES AND LANDSCAPING ON ADJACENT PROPERTIES, AND WILL BE SOLELY LIABLE FOR DAMAGE TO VEGETATION ON PROPERTIES ADJACENT TO CONSTRUCTION WORK ZONES. ALL TREES THAT ARE NOT IDENTIFIED ON THE PLANS TO BE REMOVED SHALL BE PROTECTED TO THE MAXIMUM EXTENT PRACTICABLE. TREE PROTECTION BARRICADES SHALL BE INSTALLED AND MAINTAINED AROUND ALL TREES THAT ARE TO BE PROTECTED AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.

24. THE CONTRACTOR SHALL NOT DISTURB GRASSING OR LANDSCAPING OUTSIDE CONSTRUCTION WORK ZONES. THE CONTRACTOR SHALL BE SOLELY LIABLE FOR DAMAGE TO VEGETATION OUTSIDE CONSTRUCTION WORK ZONES AND SHALL RESTORE AT NO COST TO THE CITY ANY AREAS THAT ARE DAMAGED INCLUDING AREAS WITHIN THE LIMITS OF CONSTRUCTION OR ON ADJACENT PROPERTIES USING, TO THE EXTENT PRACTICABLE, THE SAME GRASS TYPE AND THE SAME TYPES AND SIZES OF PLANT MATERIAL THAT EXISTED PRIOR TO CONSTRUCTION.

25. THE LOCATION AND CONSTRUCTION OF MAILBOXES SHALL BE IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE UNITED STATES POSTAL SERVICE. WHEN A MAILBOX IN CONFLICT WITH CONSTRUCTION IS REMOVED, THE CONTRACTOR SHALL FURNISH AND INSTALL A TEMPORARY MAILBOX AND SHALL MAINTAIN THE TEMPORARY MAILBOX UNTIL A NEW MAILBOX IS INSTALLED. THE CONTRACTOR SHALL CONSTRUCT A NEW MAILBOX TO MATCH, AS CLOSE AS PRACTICABLE, THE LOCATION, TYPE, SIZE, MATERIAL, AND COLOR OF THE ORIGINAL MAILBOX. IN LIEU OF CONSTRUCTING A NEW MAILBOX, THE EXISTING MAILBOX MAY BE REUSED IF IT MEETS THE RULES AND REGULATIONS OF THE UNITED STATES POSTAL SERVICE AND IS FUNCTIONALLY SOUND.

26. DISTURBED AREAS SHALL BE COMPACTED (AT A MINIMUM) EQUAL TO ADJACENT UNDISTURBED GROUND EXCEPT WHEN OTHERWISE SPECIFIED.

27. PROPERTIES ADJACENT TO WORK ZONES SHALL BE GRADED TO DRAIN WITHIN THE LIMITS OF CONSTRUCTION.

28. ALL DISTURBED AREAS WITHIN CONSTRUCTION WORK ZONES ARE TO BE GRASSED EXCEPT FOR AREAS THAT ARE LANDSCAPED, PAVED, OR BELOW NORMAL WATER LEVEL. EXISTING GRASSED AREAS SHALL BE REPLANTED WITH SOD OF THE SAME GRASS TYPE AS EXISTING, UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER. CENTIPEDE SOD SHALL BE USED FOR ALL DISTURBED AREAS NOT CURRENTLY GRASSED. REINFORCEMENT MAT SHALL BE INSTALLED BENEATH SOD PLACED ON SLOPES OF 2H:1V OR STEEPER, AND THE SOD SHALL BE STAPLED. COSTS FOR REINFORCEMENT MAT, STAPLING, FERTILIZING, AND WATERING SHALL BE INCLUDED IN THE UNIT PRICE OF THE PAY ITEM FOR PERFORMANCE TURF.

29. PRIOR TO REQUESTING A FINAL INSPECTION, THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER FOUR COMPLETE SETS OF CERTIFIED AS-BUILT RECORD DRAWINGS AND TWO COPIES OF THE DIGITAL FILES ON CD-ROM DISKS.

SUPPLEMENTAL GENERAL NOTES - STORMWATER CONSTRUCTION:

1. ALL NEW OR REPLACEMENT CONCRETE PIPES, CULVERTS AND STORM SEWERS SHALL BE CLASS III STEEL REINFORCED CONCRETE PIPE IN ACCORDANCE WITH STANDARD SPECIFICATION 449-4 OR FDOT APPROVED POLYPROPYLENE PIPE UNLESS NOTED OTHERWISE ON THE DRAWINGS. WHEN THE PLANS DESIGNATE A TYPE OF PIPE, THE CONTRACTOR MAY USE ONLY THE TYPE DESIGNATED. THE CONTRACTOR SHALL NOT USE A TYPE OF PIPE NOT DESIGNATED ON THE DRAWINGS WITHOUT WRITTEN APPROVAL FROM THE ENGINEER. ALL PIPES SHALL BE CUT FLUSH WITH INSIDE OF DRAINAGE STRUCTURES.

2. ALL REINFORCED CONCRETE PIPE SHALL BE INSTALLED USING SELECT BEDDING MATERIAL TO PROVIDE A FOUR-INCH MINIMUM DEPTH FOUNDATION BENEATH THE BARREL OF THE PIPE AND FOR BACKFILL UP TO THE SPRINGLINE (CENTER) OF THE PIPE. BACKFILL AROUND POLYPROPYLENE PIPE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

3. ALL JOINTS OF CONCRETE PIPES, CULVERTS, AND STORM DRAINS SHALL HAVE A FILTER FABRIC JACKET AS DETAILED ON STANDARD INDEX NO. 280 UNLESS NOTED OTHERWISE ON THE DRAWINGS OR DIRECTED BY THE ENGINEER.

4. ALL PIPE CULVERTS AND STORM DRAINS 48-INCHES OR LESS IN DIAMETER SHALL BE VIDEOTAPED IN ACCORDANCE WITH SECTION 430-4.8 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

5. ALL CURB INLETS, DITCH BOTTOM INLETS, AND MANHOLES SHALL HAVE TRAFFIC BEARING FRAMES AND COVERS OR GRATES MEETING HS-20 LOADING REQUIREMENTS UNLESS OTHERWISE SHOWN ON THE PLANS.

6. ALL STORM DRAIN COVERS SHALL BE TYPE USF TJ (U.S. FOUNDRY NO. 8017195), NPR15-728 (EJ GROUP, INC. COVER NO. 3062A2), OR APPROVED EQUAL.

7. ALL TYPE J STRUCTURE BOTTOMS SHALL HAVE A MINIMUM 6'-0" WALL HEIGHT WHEN POSSIBLE.

8. ALL GRATES SHALL BE CHAINED AND LOCKED IN ACCORDANCE WITH STANDARD INDEX NO. 201. COST OF EYEBOLTS AND CHAIN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE STRUCTURES.

9. UTILITIES IN CONFLICT WITH THE INSTALLATION OF A NEW STORM DRAIN ARE TO BE ADJUSTED OR RELOCATED TO ELIMINATE THE CONFLICT. IF THE CONFLICT CANNOT BE REASONABLY AVOIDED, A CONFLICT STRUCTURE WITH ACCESS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD INDEX NO. 307 WITH THE EXCEPTION THAT FOR UTILITY CONFLICT CONDITION II (PRESSURE OR FLUID CARRIER INSTALLATIONS), A CARRIER PIPE IS NOT REQUIRED IF DUCTILE IRON PIPE IS USED FOR THE UTILITY AND NO PIPE JOINTS ARE LOCATED WITHIN THE CONFLICT STRUCTURE. "NOTCHING" OF A STORM DRAIN PIPE OR STRUCTURE TO ACCOMMODATE A UTILITY SHALL NOT BE ALLOWED. NO UTILITY SHALL BE INSTALLED THROUGH ANY PORTION OF A STORM DRAIN PIPE WITHOUT A CONFLICT STRUCTURE.

SUPPLEMENTAL GENERAL NOTES - TRAFFIC CONTROL:

1. THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN THAT DESCRIBES THE MEASURES TO BE EMPLOYED DURING CONSTRUCTION TO WARN MOTORISTS AND PEDESTRIANS OF HAZARDS, TO ADVISE MOTORISTS OF THE PROPER TRAVEL PATH THROUGH OR AROUND THE WORK AREA, TO DELINEATE AREAS WHERE TRAFFIC SHOULD NOT OPERATE, AND TO SEPARATE AND PROTECT MOTORISTS, PEDESTRIANS, AND THE WORK FORCE DURING ALL PHASES OF THE WORK. THE PLAN SHALL ALSO CONSIDER ACCESS TO BUSINESSES WITHIN THE CONSTRUCTION AREA AND PROVIDE BUSINESS ENTRANCE SIGNS TO ROUTE MOTORISTS TO DESIGNATED PARKING AREAS. THE CONTRACTOR SHALL OBTAIN APPROVAL OF THE TRAFFIC CONTROL PLAN FROM CITY OF TALLAHASSEE TRAFFIC MOBILITY MANAGEMENT SECTION PRIOR TO BEGINNING CONSTRUCTION. PAYMENT FOR PREPARING AND SUBMITTING THE TRAFFIC CONTROL PLAN AND FOR ANY MODIFICATIONS TO THE TRAFFIC CONTROL PLAN DURING CONSTRUCTION SHALL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION.

2. ACCESS TO BUSINESS AND RESIDENTIAL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.

3. NO ROADWAYS (INCLUDING COUNTY ROADS) SHALL BE CLOSED WITHOUT PRIOR APPROVAL OF CITY OF TALLAHASSEE TRAFFIC MOBILITY MANAGEMENT SECTION.

4. ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND/OR THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS.

5. ALL TRAFFIC CONTROL DEVICES SHALL BE IN PLACE BEFORE THE START OF CONSTRUCTION ON AFFECTED ROADWAYS.

6. WARNING LIGHTS SHALL BE USED ON BARRICADES DURING HOURS OF DARKNESS IN ACCORDANCE WITH INDEX NO. 600.

SUPPLEMENTAL GENERAL NOTES - SEDIMENT AND EROSION CONTROL:

1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PREVENTION, CONTROL, AND ABATEMENT OF EROSION, WATER POLLUTION, AND THE TRANSPORTATION OF ERODED MATERIALS OFF SITE.

2. THE CONTRACTOR SHALL PREPARE A SEDIMENT AND EROSION CONTROL PLAN TO ACCOMPANY THE STORMWATER POLLUTION PREVENTION PLAN INCLUDED IN THE PLANS. THE SEDIMENT AND EROSION CONTROL PLAN SHALL BE PREPARED IN ACCORDANCE WITH THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL AND SHALL BE SPECIFIC TO THE MEANS, METHODS, AND SEQUENCE OF CONSTRUCTION TO BE EMPLOYED BY THE CONTRACTOR AND SHALL IDENTIFY THE TYPES AND LOCATIONS OF CONTROLS THAT ARE TO BE IMPLEMENTED DURING EACH PHASE OF CONSTRUCTION AS SHOWN ON THE APPROVED CONSTRUCTION SCHEDULE TO MINIMIZE EROSION, PREVENT THE TRANSFER OF ERODED MATERIALS ONTO ANY OFF SITE PARCEL OR INTO ANY RECEIVING WATER, AND PREVENT VIOLATING STATE AND/OR FEDERAL PERMIT REQUIREMENTS. THE SEDIMENT AND EROSION CONTROL PLAN SHALL DESCRIBE BUT NOT BE LIMITED TO THE FOLLOWING ITEMS FOR EACH PHASE OF CONSTRUCTION OPERATIONS OR ACTIVITIES:

   A. TYPES AND LOCATIONS OF ALL EROSION CONTROL DEVICES
   B. ESTIMATED TIME EROSION CONTROL DEVICES WILL BE IN OPERATION
   C. SCHEDULES FOR MONITORING AND MAINTAINING EROSION CONTROL DEVICES
   D. METHODS OF MAINTAINING EROSION CONTROL DEVICES
   E. METHODS FOR CONTAINMENT OR REMOVAL OF POLLUTANTS OR HAZARDOUS WASTES
   F. NAME AND PHONE NUMBERS OF THE PERSON RESPONSIBLE FOR MONITORING AND MAINTAINING THE EROSION CONTROL DEVICES

   PAYMENT FOR PREPARING AND SUBMITTING THE SEDIMENT AND EROSION CONTROL PLAN AND FOR ANY MODIFICATIONS TO THE SEDIMENT AND EROSION CONTROL PLAN DURING CONSTRUCTION SHALL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION.

3. NO CONSTRUCTION ACTIVITIES SHALL BEGIN UNTIL THE SEDIMENT AND EROSION CONTROL PLAN HAS RECEIVED WRITTEN APPROVAL FROM THE ENGINEER.

4. THE CONTRACTOR SHALL UPDATE THE SEDIMENT AND EROSION CONTROL PLAN WHENEVER THERE IS A CHANGE IN CONSTRUCTION SEQUENCE OR ACTIVITIES THAT HAS A SIGNIFICANT EFFECT ON THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS OFF SITE OR INTO ANY RECEIVING WATER AND SHALL SUBMIT THE UPDATED PLAN FOR REVIEW AND APPROVAL BY THE ENGINEER.

5. EROSION AND SEDIMENT CONTROLS SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION AND SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL.

6. FIELD CONDITIONS MAY REQUIRE THE USE OF ADDITIONAL TYPES AND QUANTITIES OF SEDIMENT AND EROSION CONTROL DEVICES DURING CONSTRUCTION AS DETERMINED BY THE CONTRACTOR, AND APPROVED BY THE ENGINEER.

7. THE CONTRACTOR SHALL INSPECT ALL SEDIMENT AND EROSION CONTROL DEVICES PRIOR TO SUSPENSION OF WORK ACTIVITIES EACH DAY, IMMEDIATELY AFTER EACH RAINFALL, AND AT LEAST DAILY DURING PROLONGED RAINFALL TO ENSURE THAT THE DEVICES ARE PROPERLY LOCATED AND MAINTAINED FOR EFFECTIVENESS. ANY REQUIRED REMEDIAL ACTION SHALL BE PERFORMED IMMEDIATELY.

8. SEDIMENT TRAPPED BY THE EROSION CONTROL DEVICES IS TO BE REMOVED BY THE CONTRACTOR AFTER EACH RAIN STORM.

9. THE AMOUNT OF AREA DISTURBED AT ONE TIME SHALL BE LIMITED TO THE MINIMUM NECESSARY TO ADEQUATELY IMPLEMENT THE WORK. CONSTRUCTION OPERATIONS SHALL BE CONTROLLED TO MINIMIZE UNPROTECTED AREAS EXPOSED TO WEATHER, AND AREAS OUTSIDE THE LIMITS OF CONSTRUCTION SHALL NOT BE DISTURBED.

10. EXCAVATED MATERIAL SHALL NOT BE DEPOSITED IN LOCATIONS WHERE IT COULD BE WASHED AWAY BY HIGH WATER OR BY STORMWATER RUNOFF, AND STOCKPILES SHALL BE COVERED OR ENCIRCLED WITH SEDIMENT CONTAINMENT DEVICES.

11. DURING THE INSTALLATION OF STORM DRAIN OR UTILITY PIPING, SYNTHETIC BALE BARRIERS SHALL BE PLACED BELOW THE WORK ZONES TO AID IN CONTROLLING THE TRANSFER OF ERODED MATERIAL OFF SITE.

12. NEW AND EXISTING DRAINAGE STRUCTURES SHALL BE PROTECTED FROM SILTATION DURING CONSTRUCTION. BARRIERS SHALL BE PLACED AROUND ALL INCOMPLETE STORMWATER INLETS AND MANHOLES DURING CONSTRUCTION. CURB INLET FILTERS SHALL BE PLACED ACROSS THE THROATS OF ALL EXISTING AND COMPLETED CURB INLETS.

13. EXISTING FLOW CAPACITY SHALL BE MAINTAINED IN THE DRAINAGE SYSTEMS TO CONVEY RUNOFF FROM RAIN STORMS THAT OCCUR DURING CONSTRUCTION. EXISTING DRAINAGE PIPES NOTED TO BE PLUGGED OR REMOVED SHALL REMAIN IN SERVICE UNTIL FLOWS CAN BE DIVERTED TO THE NEW DRAINAGE SYSTEM. WHERE NEW PIPES ARE TO BE INSTALLED IN CLOSE PROXIMITY TO EXISTING PIPES THAT ARE TO BE REMOVED, PROVISIONS SHALL BE MADE TO DIVERT FLOWS FROM THE EXISTING PIPES TO THE NEW PIPES PRIOR TO RAIN STORMS. TEMPORARY PIPES SHALL BE PLACED FOR THIS PURPOSE PRIOR TO SUSPENSION OF WORK ACTIVITIES EACH DAY.

14. NO MORE THAN 500 FEET OF STORM DRAIN OR UTILITY PIPING SHALL BE INSTALLED WITHOUT BACKFILLING AND COMPACTING THE PIPE TRENCH.

15. STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICABLE, BUT IN NO CASE MORE THAN 14 DAYS AFTER CONSTRUCTION ACTIVITY IN THOSE PORTIONS OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

16. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL DISTURBED LAND AREAS SHALL BE COMPLETED IMMEDIATELY AFTER FINAL GRADING. WHEN IT IS NOT POSSIBLE TO PERMANENTLY PROTECT A DISTURBED AREA IMMEDIATELY AFTER GRADING OPERATIONS, TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED. ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE IN PLACE AND ESTABLISHED.

17. THE CONTRACTOR SHALL OBTAIN AN ENVIRONMENTAL MANAGEMENT PERMIT FROM THE CITY OF TALLAHASSEE GROWTH MANAGEMENT DEPARTMENT FOR ALL STOCKPILE AND CONSTRUCTION STAGING AREAS LOCATED OUTSIDE THE LIMITS OF CONSTRUCTION.

SUPPLEMENTAL GENERAL NOTES - TREE PROTECTION:

1. BARRICADE FENCING SHALL BE INSTALLED AT OR NEAR THE CRITICAL PROTECTION ZONE OF EACH TREE TO BE PROTECTED PRIOR TO INITIATION OF ANY CONSTRUCTION ACTIVITY, AND THE FENCING SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION ACTIVITY HAS BEEN COMPLETED.

2. ALL TREE ROOTS 3/4" IN DIAMETER AND LARGER OF TREES TO BE PROTECTED OR PRESERVED THAT ARE EXPOSED DURING TRENCHING AND EXCAVATION SHALL BE CLEANLY CUT WITH A HANDSAW AND COVERED IMMEDIATELY WITH SOIL OR KEPT MOISTENED WITH WET BURLAP OR PEAT MOSS UNTIL THE TRENCH CAN BE FILLED. WHEN IT IS NOT POSSIBLE TO BACKFILL IN THE SAME DAY, THE ROOTS SHALL BE FRESHLY CUT WITH A HANDSAW A REASONABLE DISTANCE FROM THE ORIGINAL CUT AND BACKFILLED IMMEDIATELY TO AVOID SOIL OR ROOT DEHYDRATION.

GENERAL NOTES FOR UTILITY RELOCATION:

MEASUREMENT AND PAYMENT

NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR ADDITIONAL QUANTITIES AND/OR WORK PERFORMED THAT IS NOT INCLUDED IN THE BID FORM OF THE CONTRACT WITHOUT WRITTEN APPROVAL BY THE CITY.

WARRANTY

WHEN REPAIRS ARE REQUIRED WITHIN THE TWO YEAR WARRANTY PERIOD, THE CONTRACTOR MUST FIRST MAKE ALL NECESSARY REPAIRS, THEN PATCH THE DAMAGED ASPHALT SURFACE IN ACCORDANCE WITH THE JURISDICTIONAL AGENCY'S REQUIREMENTS, AND THEN MILL AND RESURFACE THE FULL ROAD WIDTH WITH 1-INCH THICK SP-9.5 ASPHALT TO A MINIMUM DISTANCE OF 25-FEET EACH DIRECTION FROM THE PAVEMENT CUTS, OR AS REQUIRED BY THE ROADWAY'S JURISDICTIONAL AGENCY.

GOVERNING SPECIFICATIONS AND JURISDICTION

GOVERNING SPECIFICATIONS FOR CONSTRUCTION OF WASTEWATER (SANITARY) COLLECTION FACILITIES & WATER MAIN ON THIS PROJECT ARE THE CITY OF TALLAHASSEE (COT) TECHNICAL SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION, CURRENT EDITION. THE CONTRACTOR MAY ACCESS AND DOWNLOAD THE COT TECHNICAL SPECIFICATIONS FROM THE FOLLOWING INTERNET URL:

HTTP://WWW.TALGOV.COM/YOU/YOU-LEARN-UTILITIES-WATER-DESIGN-CONSTRUCTION.ASPX

REQUIREMENTS NOT SPECIFICALLY COVERED BY THE GOVERNING SPECIFICATIONS ABOVE MAY BE COVERED BY PLAN NOTES OR SPECIAL PROVISIONS, AND ALL SUCH REQUIREMENTS ARE CONSIDERED AS PART OF THE CONTRACT.

ENVIRONMENTAL MANAGEMENT SYSTEM (EMS)

THE CONTRACTOR IS REQUIRED TO FOLLOW ALL RULES AND REGULATIONS ESTABLISHED BY EMS (ENVIRONMENTAL MANAGEMENT SYSTEM) DOCUMENTS AS WELL AS ANY OTHER PERTINENT RULES AND REGULATIONS THAT RELATE TO THE PROJECT. THE CITY OF TALLAHASSEE UNDERGROUND UTILITIES ENVIRONMENTAL POLICY STATEMENT AND A CONTRACTOR'S INFORMATIONAL BROCHURE ARE AVAILABLE AT HTTP://WWW.TALGOV.COM/YOU/YOU-LEARN-UTILITIES-WATER-EMS-WATER.ASPX

PHASED PROJECTS

IN A PHASED PROJECT, EACH PHASE MUST BE CAPABLE OF STAND-ALONE OPERATION FOR UTILITY SERVICE. ALL UTILITY ITEMS MUST MEET REQUIREMENTS AS IF THE PHASE WAS THE ONLY PROJECT (NO ITEMS WILL BE LEFT TO COMPLETE WITH A LATER PHASE).

TRENCH SAFETY

COMPLY WITH ALL OSHA TRENCH SAFETY REQUIREMENTS. SHEETING AND BRACING SHALL BE ADEQUATE TO PREVENT CAVE-IN OF TRENCH WALLS, SUBSIDENCE OF AREAS ADJACENT TO THE TRENCH, DAMAGE TO UTILITIES, AND SLOUGHING OF THE BASE OF THE EXCAVATION DUE TO WATER SEEPAGE. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR THE ADEQUACY OF ANY SHEETING AND BRACING.

GENERAL CONSTRUCTION CONSIDERATIONS

1. IT IS THE INTENT TO MAINTAIN ACCESS TO PROPERTIES AT ALL TIMES, UNLESS OTHERWISE STATED. PUT FORTH EVERY REASONABLE EFFORT TO MINIMIZE DISRUPTION AND DISTURBANCE OF ADJACENT PROPERTIES. ANY INTERRUPTION OF ACCESS MUST BE COORDINATED WITH THE AFFECTED PROPERTY OWNERS/TENANTS.

2. NO MODIFICATIONS, PLANNED OR UNPLANNED, TO EXISTING UTILITY SYSTEMS WILL BE ALLOWED WITHOUT APPROVED PLANS AND A CITY UTILITY INSPECTOR ON SITE TO WITNESS THE MODIFICATIONS. VIOLATION OF THIS OBLIGATION MAY REQUIRE THAT THE CONTRACTOR REPLACE ALL MODIFIED COMPONENTS WITH NEW COMPONENTS (I.E., BORED MANHOLE WILL BE REPLACED WITH NEW MANHOLE; TAPPED LINE WILL BE REPLACED WITH 20 FEET OF LINE TO EITHER SIDE OF TAP, OR SIMILAR REPLACEMENTS). IN ADDITION TO THE NEW REPLACEMENTS, FINES MAY BE IMPOSED FOR EACH VIOLATION TO COVER THE COST OF ADDITIONAL ENGINEERING AND INSPECTION SERVICES.

UTILITY LOCATION AND PROTECTION

1. NOTIFY SUNSHINE STATE ONE-CALL OF FLORIDA AT LEAST FIVE DAYS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES.

2. LOCATE AND PROTECT ALL UTILITIES. THE INFORMATION SHOWN ON THE DRAWINGS CONCERNING SIZE, TYPE, AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON INFORMATION PROVIDED BY THE UTILITY OWNERS, AVAILABLE RECORDS, AND FIELD SURVEY INFORMATION. THE INFORMATION MAY NOT REFLECT ACTUAL CONDITIONS, INCLUDE ALL UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE CORRECT HORIZONTAL OR VERTICAL LOCATIONS. THE CONTRACTOR WILL MAKE THEIR OWN DETERMINATION AS TO SIZE, TYPE, AND LOCATION OF EXISTING UTILITIES AS NECESSARY TO AVOID DAMAGE FROM PROPOSED WORK ACTIVITIES.

3. ALL UTILITIES (MAINS AND SERVICES) WITHIN THE LIMITS OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL SUCH TIME AS THE SYSTEM(S) IS DEEMED ACCEPTED BY THE CITY. THE CONTRACTOR WILL BE NOTIFIED OF ACCEPTANCE IN WRITING AFTER THE CITY RECEIVES APPROVED AS-BUILT DRAWINGS. THE CONTRACTOR IS LIABLE FOR ANY DAMAGES TO THE UTILITY SYSTEMS CAUSED BY THE INSTALLATION OF ANY OTHER UTILITIES. PRIOR TO ACCEPTANCE, PROVIDE ALL FIELD UTILITY LOCATIONS IN ACCORDANCE WITH UTILITY LOCATION STANDARDS AS ESTABLISHED BY THE AMERICAN PUBLIC WORKS ASSOCIATION.

4. THE CONTRACTOR IS ADVISED THAT UNDERGROUND GAS, ELECTRICAL DISTRIBUTION, AND COMMUNICATION FACILITIES MAY BE PRESENT THROUGHOUT THE WORK LIMITS.

5. THE CONTRACTOR WILL NOTIFY THE ELECTRIC UTILITY A MINIMUM OF TWO WEEKS PRIOR TO CONSTRUCTION IN THE VICINITY OF THEIR FACILITIES.

6. EXISTING COT-OWNED POTABLE WATER, RECLAIMED WATER, WASTEWATER COLLECTION, AND GAS FACILITIES SHALL REMAIN IN-PLACE UNLESS OTHERWISE DESIGNATED IN THE PLANS TO BE REMOVED.

7. REPAIR OR REPLACE AT CONTRACTOR'S OWN EXPENSE, ANY SERVICE LATERALS, VALVES, MAINS, FORCE MAINS, FIRE HYDRANTS, OR OTHER COT-OWNED POTABLE WATER, WASTEWATER, OR GAS FACILITIES THAT ARE DAMAGED BY THE CONTRACTOR'S ACTIVITIES.

8. PRIOR TO ANY SCHEDULED INTERRUPTION OF UTILITY SERVICE, THE CONTRACTOR WILL COORDINATE SUCH INTERRUPTIONS WITH THE UTILITY PROVIDER AND WILL PROVIDE A MINIMUM 24-HOUR NOTICE TO THE AFFECTED PARTIES. IN THE CASE OF A WATER MAIN SHUT DOWN, A MINIMUM 24-HOUR NOTICE ALSO WILL BE PROVIDED TO THE TALLAHASSEE FIRE DEPARTMENT.

9. SUPPORT ALL EXISTING ACTIVE UTILITIES THAT CROSS CONSTRUCTION TRENCHES TO PREVENT JOINT SEPARATION AND DAMAGE TO SAID MAINS. THE RESPONSIBILITY FOR THE ADEQUACY OF ANY REQUIRED SUPPORT SYSTEMS BELONGS TO THE CONTRACTOR. THE COST OF UTILITY SUPPORT SYSTEMS IS CONSIDERED INCIDENTAL TO THE PAY ITEMS IN THE CONTRACT FOR UTILITY PIPE. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.

10. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS, METHODS, EQUIPMENT, LABOR, SUPERVISION, AND MATERIALS NECESSARY TO DRAIN, TRANSPORT, PUMP, AND/OR OTHERWISE DISPOSE OF ANY RESIDUAL WASTEWATER CONTAINED IN EXISTING OR NEW GRAVITY SEWERS AND FORCE MAINS IN ACCORDANCE WITH THE WASTEWATER MANAGEMENT PLAN.

11. IN THE EVENT THAT WASTEWATER FLOW DIVERSION IS NEEDED ON THIS PROJECT TO COMPLETE PIPING MODIFICATIONS, THE CONTRACTOR WILL BE REQUIRED TO PHYSICALLY STAFF THE FLOW DIVERSION EQUIPMENT 24 HOURS A DAY, 7 DAYS A WEEK UNTIL THE FLOW DIVERSION IS NO LONGER NEEDED. THE COST FOR STAFFING THE FLOW DIVERSION EQUIPMENT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNIT PRICES FOR UTILITY PIPE AND NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK, UNLESS SPECIFICALLY NOTED OTHERWISE.

GAS MAINS

1. NOTIFY THE GAS UTILITY A MINIMUM OF TWO WORKING DAYS PRIOR TO ANY EXCAVATION IN THE VICINITY OF GAS MAINS, AS REQUIRED BY CHAPTER 77-153 OF THE FLORIDA STATUTES. A GAS DEPARTMENT INSPECTOR WILL BE ON SITE WHEN WORK ACTIVITIES TAKE PLACE NEAR GAS MAINS.

2. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING GAS FACILITIES BY SAID CONTRACTOR OR DESIGNEES.

3. THE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ALL GAS VALVE BOXES TO FINISH GRADE DURING THE PAVEMENT RESTORATION ACTIVITIES.

4. NOTIFY THE CITY GAS DEPARTMENT IMMEDIATELY IF ANY GAS MAIN IS NICKED, SCRATCHED, CUT OR OTHERWISE DAMAGED SO THAT REPAIRS CAN BE MADE PROMPTLY.

5. THE CONTRACTOR IS RESPONSIBLE TO HAVE ALL GAS MAINS LOCATED PRIOR TO DIGGING IN VICINITY OF GAS MAINS AND TO USE DUE CAUTION WHEN DOING SO.

POTABLE WATER MAINS

1. POTABLE WATER SERVICE WILL BE MAINTAINED TO RESIDENCES AND BUSINESSES AT ALL TIMES, EXCEPT DURING THE TRANSFER OF SERVICES.

2. KEEP FIRE HYDRANTS OPERABLE AND ACCESSIBLE AT ALL TIMES. DO NOT PLACE EQUIPMENT OR MATERIALS WITHIN 15 FEET OF ANY FIRE HYDRANT. FIRE HYDRANTS TAKEN OUT-OF-SERVICE SHALL BE COVERED WITH BAGS, OR AS DIRECTED BY THE CITY'S INSPECTOR, TO CLEARLY INDICATE THAT THE HYDRANT IS INOPERABLE. THE CONTRACTOR SHALL REPORT OUT OF SERVICE HYDRANTS TO THE CITY INSPECTOR FOR NOTIFICATION TO THE FIRE DEPARTMENT DISPATCH CENTER.

3. DO NOT CUT, CAP, OR PLUG EXISTING LOOPED PUBLIC POTABLE WATER MAINS WITHOUT THE PRIOR APPROVAL OF THE CITY.

4. REPLACE ALL EXISTING SERVICES WITHIN THE CONSTRUCTION LIMITS, WHETHER SHOWN OR NOT, INSTALL NEW METER SETTINGS TO THE RIGHTS-OF-WAY LINES (UNLESS OTHERWISE NOTED), RECONNECT AND TEST ANY BACK FLOW DEVICES AND/OR PRESSURE REDUCING VALVES, AND RECONNECT TO THE CUSTOMERS' PLUMBING. WHERE THERE IS MORE THAN ONE METER AT A TAP, A NEW MANIFOLD WILL BE BUILT AND INSTALLED PER THE LATEST WATER DETAIL SHEET. IT IS THE CONTRACTOR'S RESPONSIBILITIES TO FIELD INSPECT AND DETERMINE THE LOCATION AND NUMBER OF METERS AT A TAP.

5. SET METER BOXES WITH ADEQUATE ROOM BEHIND THE METER TO REPAIR LEAKS WITHOUT DIGGING UP SIDEWALKS, PAVEMENT, WALLS, SPRINKLER LINES, ETC.; THERE WILL BE NO BOXES IN SWALES, UNDER DOWN SPOUTS, NEXT TO CONDENSATE DRAINS OR ANY OTHER SIMILAR SITUATION THAT MAY FILL THE BOX WITH WATER AND/OR MUD. NO STANDING WATER WILL BE ALLOWED IN METER BOXES.

WASTEWATER MAINS

1. MAINTAIN WASTEWATER COLLECTION SERVICE TO ALL CUSTOMERS AT ALL TIMES. PROVIDE WASTEWATER FLOW DIVERSION, AS NEEDED, TO MAINTAIN CONTINUOUS SANITARY SEWER SERVICE DURING CONSTRUCTION. WASTEWATER FLOW DIVERSION MAY CONSIST OF BY-PASS PUMPING, PUMPS, TRUCKS AND TRANSPORTATION; OR ANY OTHER METHOD APPROVED BY THE CITY.

2. DISPOSE OF SANITARY SEWER STRUCTURES AND PIPING, WHICH ARE REMOVED TO CONSTRUCT NEW SANITARY SEWER FACILITIES. THE COST IS INCIDENTAL TO PAY ITEMS FOR NEW SANITARY STRUCTURES AND PIPING.

3. EXISTING SANITARY SEWER PIPING AND STRUCTURES THAT ARE DESIGNATED ON THE PLANS TO BE PLACED OUT-OF-SERVICE (IN PLACE) SHALL BE PLUGGED AT INFLUENT AND EFFLUENT ENDS WITH MASONRY PLUGS UNLESS OTHERWISE NOTED. EXISTING STRUCTURES SHALL BE REMOVED THREE FEET BELOW FINISHED GRADE AND FILLED WITH EXCAVATABLE FLOWABLE FILL. THE COST IS INCIDENTAL TO PAY ITEMS FOR NEW SANITARY SEWER STRUCTURES AND PIPING.

4. SANITARY SEWER SERVICES - THE PLANS SHOW APPROXIMATE LOCATIONS OF ACTIVE AND INACTIVE SEWER SERVICE LATERALS, BASED ON PIPELINE INSPECTIONS CONDUCTED BY THE CITY. FIELD-VERIFY THE SIZE, MATERIAL AND LOCATION OF EXISTING ACTIVE SEWER LATERALS. ADJUST AND RECONNECT LATERALS AT THEIR FIELD-VERIFIED LOCATIONS AND SIZES, UNLESS OTHERWISE DIRECTED BY THE CITY. INSPECT ACTIVE PVC SEWER SERVICE LATERALS AND REPLACE IF NEEDED. TIE NEW SEWER SERVICE LATERALS TO EXISTING LATERALS WITH A CLEAN OUT AT THE PROPERTY LINE. PLUG INFLUENT AND EFFLUENT ENDS OF INACTIVE SEWER SERVICES WITH GROUT TO PLACE THEM OUT-OF-SERVICE.

5. SANITARY SEWER LATERALS THAT ARE TO BE CONSTRUCTED MAY BE INSTALLED BY OPEN-CUT, PIPE BURSTING OR OTHER TECHNIQUES ACCEPTABLE TO THE CITY. THE BID PRICE SHALL BE FULL COMPENSATION FOR SUCH INSTALLATIONS. PIPE BURSTING REQUIRES PRE AND POST CONSTRUCTION TV INSPECTIONS.

PROJECT CLOSE-OUT

IN ADDITION TO THE DOCUMENTS FOR CONTRACT CLOSE-OUT AND FINAL PAYMENT REQUIRED BY THE CITY'S MANAGEMENT AND ADMINISTRATION DEPARTMENT, PROVIDE THE FOLLOWING DOCUMENTS AND/OR VERIFICATION TO THE CITY'S CONSTRUCTION INSPECTION MANAGER FOR REVIEW AND APPROVAL BEFORE FINAL PAYMENT IS AUTHORIZED:

1. ALL SEWER DEFICIENCIES, INCLUDING STRUCTURAL DAMAGE, DEFLECTIONS, DEBRIS, SAND, SEDIMENT, AND/OR INFILTRATION DISCOVERED DURING THE CLOSED CIRCUIT TV (CCTV) INSPECTIONS ARE REPAIRED. THE SEWER LINE WILL BE CCTV INSPECTED AFTER ANY REPAIRS TO DETERMINE IF THE DEFICIENCIES ARE CORRECTED.

2. ALL MANHOLES ARE INSPECTED BEFORE FINAL CCTV INSPECTION OF THE SEWERS. MANHOLES ARE CLEANED, WITH ALL PLUGS REMOVED AND RAIN DISHES INSTALLED (WHEN REQUIRED).

3. ALL MANHOLES AND VALVE BOXES ARE RAISED TO THEIR FINISH ELEVATIONS WITH ASPHALT IN PLACE. ALL MANHOLES AND VALVE BOXES MUST BE RAISED BEFORE THE FINAL CCTV INSPECTION OF THE SEWER, WHICH MUST BE COMPLETED BEFORE T HE SEWER IS PLACED INTO SERVICE.

4. ALL SERVICES ARE STAKED AND HAVE AN EMS LOCATING DEVICE PLACED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS AND A LETTER OF ACCEPTANCE HAS BEEN ISSUED BY THE CITY.

5. COPIES OF ALL TESTING RESULTS, INCLUDING ALL COMPACTION DENSITY, AND OTHER REQUIRED TESTS IN ACCORDANCE WITH THE CONTRACT.

6. COMPLETE RESTORATION OF ALL ROADWAYS (INCLUDING STRIPING, SIGNAGE, SIGNALS, ETC.), SIDEWALKS, DRIVEWAYS, LANDSCAPING, EASEMENTS, STAGING AREAS, AND/OR ANY OTHER AREAS DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION, OR DUE TO CONSTRUCTION ACTIVITIES.

7. ALL REQUIRED DOCUMENTATION (INCLUDING AS-BUILT DRAWINGS AND CAD FILES) MUST BE RECEIVED BY THE CITY'S INSPECTION MANAGER BEFORE REQUESTING UTILITY SERVICE AND BEFORE A FINAL ACCEPTANCE LETTER WILL BE ISSUED.

CONSTRUCTION SEQUENCE

THIS PROJECT REQUIRES RELOCATION OF UTILITIES PRIOR TO CONSTRUCTION OF THE STORMWATER ITEMS. ALL WATER MAIN ADJUSTMENTS ARE TO BE MADE PRIOR TO CONSTRUCTION OF STORMWATER ITEMS. ALL WATER MAIN ADJUSTMENTS WILL BE MADE SO THAT THE EXISTING WATER MAINS AND SERVICES REMAIN IN-USE DURING RELOCATION OF THE WATER MAIN. THERE WILL BE NO EXTENDED WATER OUTAGES TO EXISTING CUSTOMERS DURING CONSTRUCTION. ALL ADJUSTMENTS TO WATER MAINS WILL ENSURE THAT A MINIMUM 12 INCHES CLEAR (VERTICAL SEPARATION) OF ALL PIPE CROSSINGS IS ACHIEVED (OD TO OD).

JOSEPH W. MILLER LICENSE No 49889 STATE OF FLORIDA PROFESSIONAL ENGINEER

GEORGE & ASSOCIATES CONSULTING ENGINEERS, INC.
1967 COMMONWEALTH LANE, SUITE 200
TALLAHASSEE, FL 32309
CERTIFICATE OF AUTHORIZATION: 7879
JOSEPH W. MILLER, P.E. NO. 49889

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOSEPH W. MILLER, P.E. ON THE DATE INDICATED IN THE DIGITAL SIGNATURE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

FINAL PLANS NOVEMBER 12, 2019

ENGINEER OF RECORD
Joseph W. Miller
GEORGE & ASSOCIATES
CONSULTING ENGINEERS, INC.
1967 COMMONWEALTH LN., STE. 200
TALLAHASSEE, FL 32303
P.E. NO. 49889

Signature | Date

ORIGINAL

REVISIONS:
1
2
3
4
5

SHEET
GENERAL NOTES

PROJECT
CHESTWOOD AVE DRAINAGE IMPROVEMENTS

George & Associates Consulting Engineers, Inc.
CIVIL - ENVIRONMENTAL - TRANSPORTATION - SYSTEMS PLANNING - LAND USE
ENGINEERING BUSINESS NO. 7879
1967 Commonwealth Lane, Suite 200, Tallahassee, FL 32303
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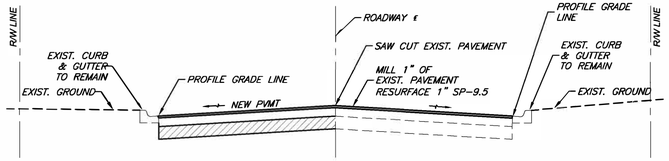
JOB No.	19-5395
DRAWN	LJR
DESIGNED	J.W.M.
CHECKED	J.W.M.
QC	J.W.M.

Larry Richards 11/12/2019 P:\Projects\19-5395 Chestwood Ave Drainage Improvements\Drawings\Civil\3 General Notes.dwg



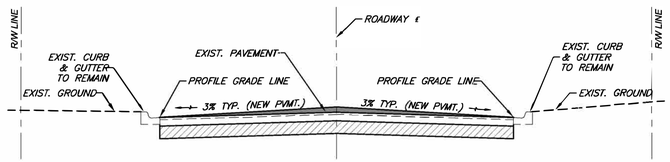
NOTES:

1. THE EXISTING CURBS AND GUTTERS, WHICH ARE TO REMAIN, WILL ESTABLISH THE ROADWAY PGL.
2. THE PAVEMENT CROWN SHALL BE AT THE CENTERLINE OF THE ROADWAY.
3. THE EXISTING PAVEMENT IS TO BE SAW CUT AT THE CENTERLINE OF THE ROADWAY OR A MINIMUM OF 1' BEYOND THE PIPE TRENCH, WHICHEVER IS THE GREATEST DISTANCE FROM THE CURB.
4. THE CROSS SLOPE OF THE NEW PAVEMENT SHALL VARY AS REQUIRED FOR THE PAVEMENT TO MATCH AT THE CENTERLINE OF THE ROADWAY.

TYPICAL PAVEMENT SECTION
PARTIAL RECONSTRUCTION - EXISTING CURBS TO REMAIN
(UNLESS SHOWN OTHERWISE ON PLAN & PROFILE)

STA: 16+75 TO STA: 21+00
N.T.S.

PAVEMENT SECTION
2" SP-9.5 (TWO 1" LAYERS)
6" LIMEROCK BASE (LBR 100)
12" TYPE B STABILIZATION (LBR 40)



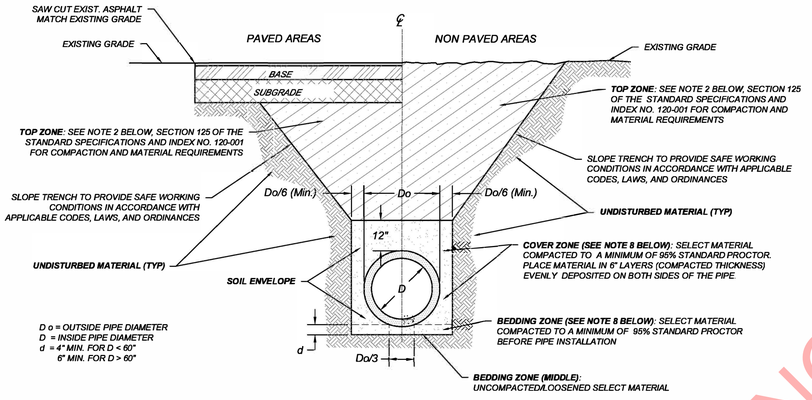
NOTES:

1. THE EXISTING CURBS AND GUTTERS, WHICH ARE TO REMAIN, WILL ESTABLISH THE ROADWAY PGL.
2. THE PAVEMENT CROWN SHALL BE AT THE CENTERLINE OF THE ROADWAY.
3. WHERE THE EXISTING CURBS AND GUTTERS ARE AT THE SAME ELEVATION ON BOTH SIDES OF THE ROADWAY, THE PAVEMENT CROSS SLOPE SHALL BE 3%.
4. WHERE THE EXISTING CURBS AND GUTTERS ARE NOT AT THE SAME ELEVATION ON BOTH SIDES OF THE ROADWAY, THE CROSS SLOPE MAY BE VARIED FROM A MINIMUM OF 1.5% TO A MAXIMUM OF 4% AS REQUIRED FOR THE PAVEMENT TO MATCH AT THE CENTERLINE OF THE ROADWAY.

TYPICAL PAVEMENT SECTION
COMPLETE RECONSTRUCTION - EXISTING CURBS TO REMAIN
(UNLESS SHOWN OTHERWISE ON PLAN & PROFILE)

STA: 16+11.88 TO STA: 16+75 & SPOONWOOD DRIVE
N.T.S.

PAVEMENT SECTION
2" SP-9.5 (TWO 1" LAYERS)
6" LIMEROCK BASE (LBR 100)
12" TYPE B STABILIZATION (LBR 40)



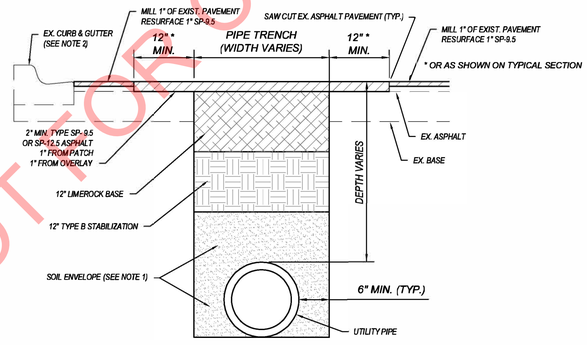
D o = OUTSIDE PIPE DIAMETER
D = INSIDE PIPE DIAMETER
d = 4" MIN. FOR D < 60"
6" MIN. FOR D > 60"

NOTES:

1. THE SOIL ENVELOPE SHALL USE MATERIAL MEETING AASHTO CLASSIFICATION OF A-1 SAND, A-3, OR A-2-4. FOR REINFORCED CONCRETE PIPE WITH DIAMETERS 30-INCHES OR GREATER, THE CONTRACTOR MAY CHOOSE TO REDUCE THE COVER ZONE TO THE SPRINGLINE OF THE PIPE. COST FOR SELECT MATERIAL FOR THE SOIL ENVELOPE SHALL BE INCLUDED IN THE CONTRACT UNIT PRICES ASSOCIATED WITH THIS WORK.
2. THE TOP ZONE SHALL USE MATERIAL AS DEFINED IN INDEX NO. 120-001. NO A-4 MATERIAL SHALL BE PLACED BELOW THE WATER LEVEL. IF PLACED BELOW THE WATER LEVEL, A-2-4 MATERIAL MUST BE NONPLASTIC AND CONTAIN LESS THAN 15% PASSING THE NO. 200 SEIVE. IN PAVED AREAS HIGH PLASTIC AND/OR MUCK MATERIALS WILL NOT BE ALLOWED AS BACKFILL. IN NON-PAVED AREAS MUCK MATERIAL WILL NOT BE ALLOWED AS BACKFILL, UNLESS SPECIFICALLY SHOWN OTHERWISE IN THE PLANS OR SPECIFICATIONS, (E.G., LITTORAL SHELVES AND WETLAND RESTORATION AREAS).
3. TRENCHES ARE TO BE EXCAVATED IN ACCORDANCE WITH SUBARTICLE 125-4.4 OF THE STANDARD SPECIFICATIONS.
4. IF THE TRENCH IS OVEREXCAVATED, BACKFILL AND RECOMPACT IN ACCORDANCE WITH SECTION 125-9.2.1. MUCK AND ORGANIC MATERIAL SHALL NOT BE ALLOWED AS BACKFILL IN OVEREXCAVATED AREAS.
5. HAND DIG FOR BELL JOINTS. BEARING FROM JOINT TO JOINT WILL NOT BE ALLOWED.
6. PIPES ARE TO BE INSTALLED IN DRY TRENCHES. OPEN TRENCH PUMPING FOR DEWATERING SHALL NOT BE ALLOWED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
7. BACKFILL SHALL BE PLACED IN LIFTS THIN ENOUGH TO ALLOW COMPACTION TO BE ACHIEVED. LIFTS IN EXCESS OF TWELVE INCHES, MEASURED LOOSE, SHALL NOT BE ALLOWED.
8. IF THE PIPE IS BENEATH OR WITHIN 5-FEET OF ANY BUILDING, COMPACT TO 100% STANDARD PROCTOR. IF THE PIPE IS NEAR ANY STRUCTURE, COMPACT TO 100% STANDARD PROCTOR FOR A DISTANCE OF AT LEAST ONE PIPE DIAMETER, BUT NOT LESS THAN THREE FEET FROM THE OUTSIDE FACE OF THE STRUCTURE.
9. BEFORE PLACING SOD IN GRASSED AREAS, PROVIDE A THREE-INCH MINIMUM THICK LAYER OF TOPSOIL THAT IS SUFFICIENTLY LOOSE TO PROMOTE ROOT GROWTH.

STORM DRAIN PIPE INSTALLATION

N.T.S.



NOTES:

1. THE SOIL ENVELOPE SHALL CONSIST OF MATERIAL MEETING THE AASHTO CLASSIFICATION OF A-1 SAND, A-3, OR A-2-4 COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR
2. WHEN THE PIPE TRENCH IS LESS THAN 24" FROM EXISTING CURB AND GUTTER, THE EXISTING ASPHALT PAVING AND BASE MATERIAL BETWEEN THE TRENCH AND THE LIP OF CURB SHALL BE REMOVED AND REPLACED.
3. IF THE TRENCH IS OVEREXCAVATED, BACKFILL AND RECOMPACT IN ACCORDANCE WITH SECTION 125-9.2.1. MUCK AND ORGANIC MATERIAL SHALL NOT BE ALLOWED AS BACKFILL IN OVEREXCAVATED AREAS.
4. HAND DIG AND MANUALLY SHAPE THE TRENCH BOTTOM FOR BELL JOINTS.
5. PIPES ARE TO BE INSTALLED IN DRY TRENCHES. OPEN TRENCH PUMPING FOR DEWATERING SHALL NOT BE ALLOWED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
6. BACKFILL SHALL BE PLACED IN LIFTS THIN ENOUGH TO ALLOW COMPACTION TO BE ACHIEVED. LIFTS IN EXCESS OF TWELVE INCHES, MEASURED LOOSE, SHALL NOT BE ALLOWED.
7. IF THE PIPE IS BENEATH OR WITHIN 5-FEET OF ANY BUILDING, COMPACT TO 100% STANDARD PROCTOR.
8. PIPE TRENCHES IN UNPAVED AREAS SHALL BE BACKFILLED WITH SELECT MATERIAL AND, BEFORE PLACING SOD, A THREE-INCH MINIMUM THICK LAYER OF TOPSOIL THAT IS SUFFICIENTLY LOOSE TO PROMOTE ROOT GROWTH IS TO BE PROVIDED .

UTILITY PIPE INSTALLATION

N.T.S.

JOSEPH W. MILLER LICENSE No 49889 STATE OF FLORIDA PROFESSIONAL ENGINEER

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JOSEPH W. MILLER, P.E. NO. 49889

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FINAL PLANS NOVEMBER 12, 2019

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P.E. NO. 49889
Signature Date

ORIGINAL
REVISIONS.
1
2
3
4
5

SHEET
TYPICAL SECTIONS AND DETAILS

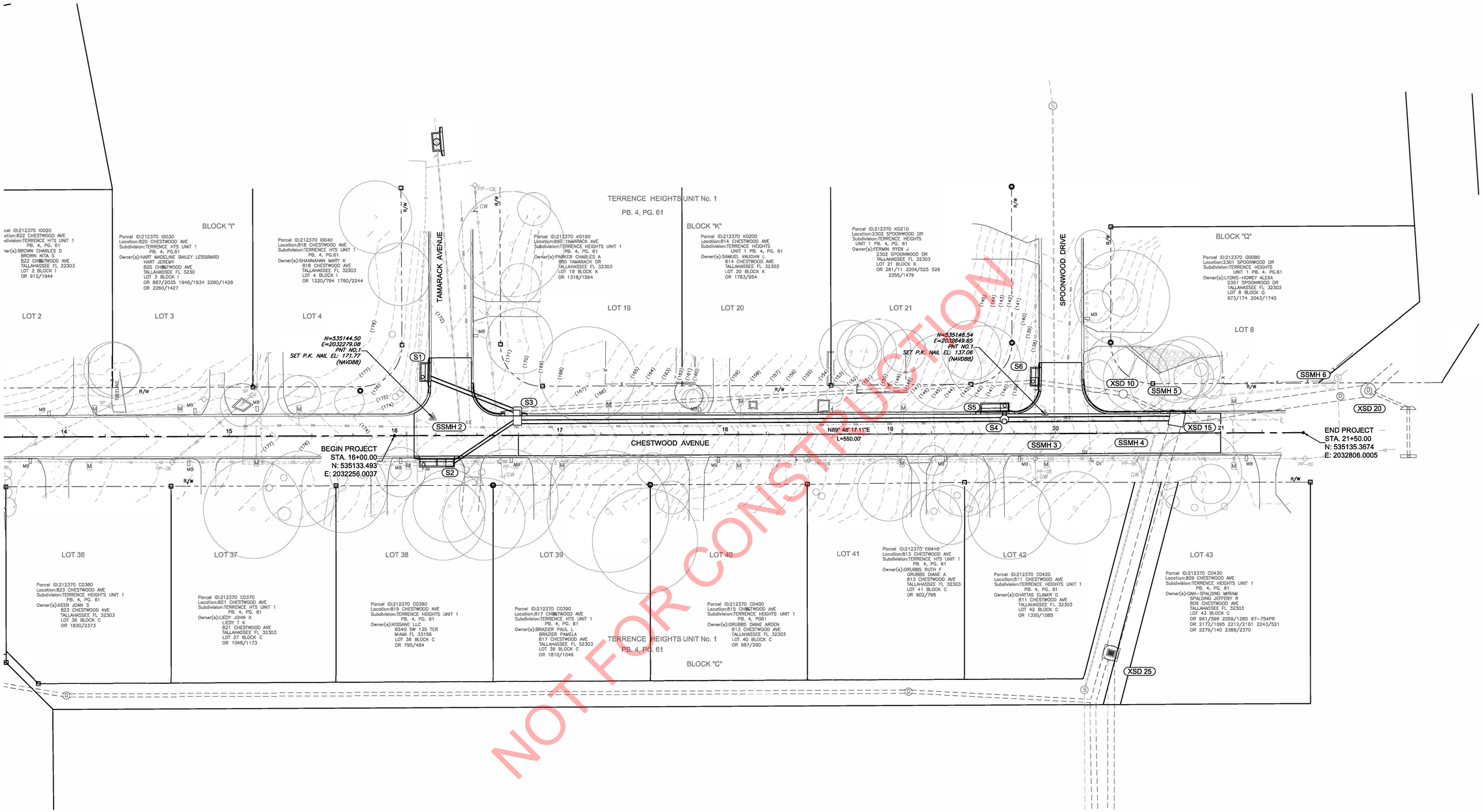
PROJECT
CHESTWOOD AVE DRAINAGE IMPROVEMENTS

George & Associates Consulting Engineers, Inc.
CIVIL - ENVIRONMENTAL - TRANSPORTATION - SYSTEMS PLANNING - LAND USE
ENGINEERING BUSINESS NO. 7879
1967 Commonwealth Lane, Suite 200, Tallahassee, FL 323303
PHONE 850.521.0344 - FAX 850.521.0345

JOB No.	19-5395
DRAWN	LJR
DESIGNED	J.W.M.
CHECKED	J.W.M.
QC	J.W.M.

SHEET 4

Larry Richards 10/21/2019 P:\Projects\19-5395 Chestwood Ave Drainage Improvements\Drawings\Civil\4 Typical Sections and Details.dwg



30 0 15 30

1 inch = 30 ft.

NORTH AMERICAN VERTICAL DATUM OF 1988

Bearing are based on State Plane Coordinate NAD 83, Florida North Zone, U.S. Feet.

PROJECT LAYOUT PLAN

SCALE:1" = 30'

JOSEPH W. MILLER LICENSE No 49889 STATE OF FLORIDA PROFESSIONAL ENGINEER

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FINAL PLANS NOVEMBER 12, 2019

Larry Richards 10/29/2019 P:\Projects\19-5395 Chestwood Ave Drainage Improvements\Drawings\Civil\5 Project Layout Plan.dwg

ENGINEER OF RECORD
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P.E. NO. 49889
Signature Date

ORIGINAL
REVISIONS. 1 2 3 4 5

SHEET
PROJECT LAYOUT PLAN

PROJECT
CHESTWOOD AVE DRAINAGE IMPROVEMENTS

George & Associates
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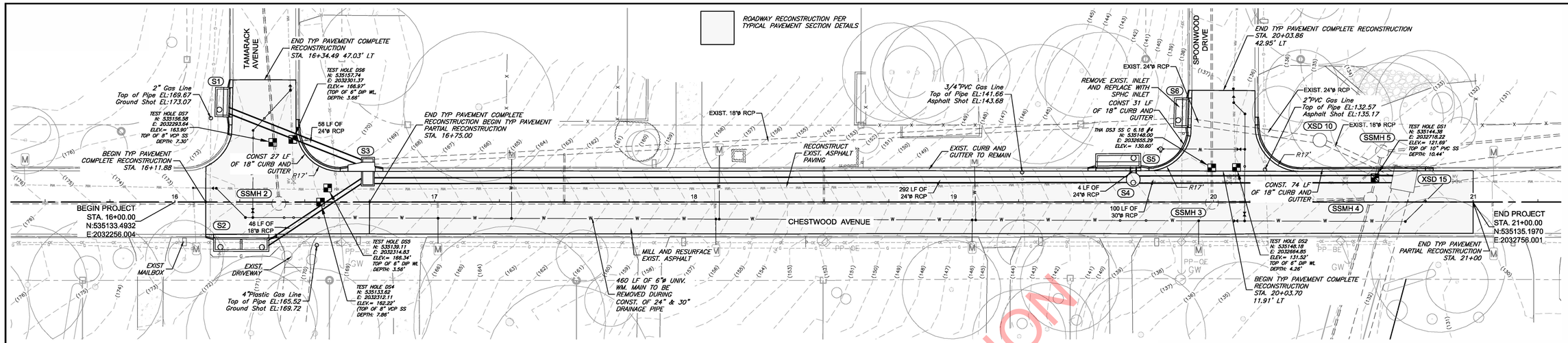
QC	J.W.M.

SHEET 5

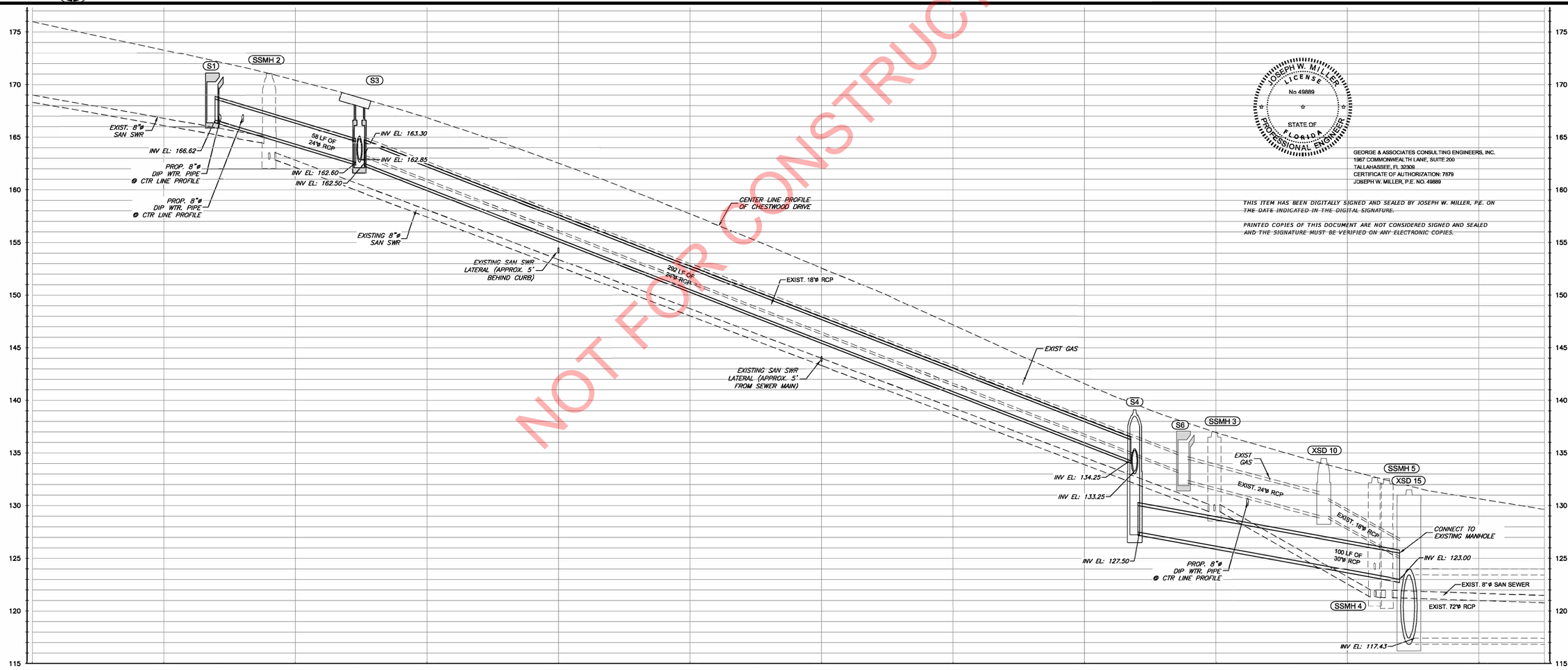


PLAN AND PROFILE

SCALE:1" = 20'

20 0 10 20 40

1 inch = 20 ft.



Horiz. Scale: 1"=20' Vert. Scale: 1"=5'

Begin Station: 15+50 End Station: 21+25

FINAL PLANS NOVEMBER 12, 2019

ENGINEER OF RECORD
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GEORGE & ASSOCIATES
CONSULTING ENGINEERS, INC.
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TALLAHASSEE, FL 32303
P.E. NO. 49889
Signature
Date

ORIGINAL
REVISIONS.
1
2
3
4
5

SHEET
PLAN AND PROFILE

PROJECT
CHESTWOOD AVE DRAINAGE IMPROVEMENTS

George & Associates Consulting Engineers, Inc.
CIVIL - ENVIRONMENTAL - TRANSPORTATION - SYSTEMS PLANNING - LAND USE
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JOB No.	19-5395
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CHECKED	J.W.M.
QC	J.W.M.

SHEET 6

JOSEPH W. MILLER LICENSE No 49889 STATE OF FLORIDA PROFESSIONAL ENGINEER

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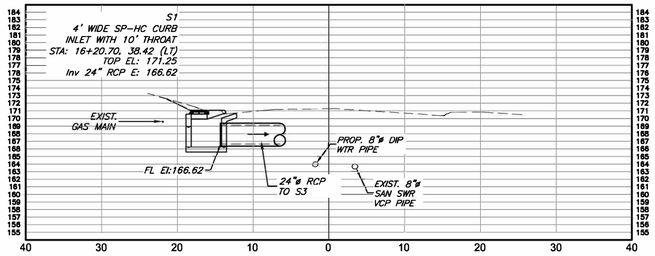

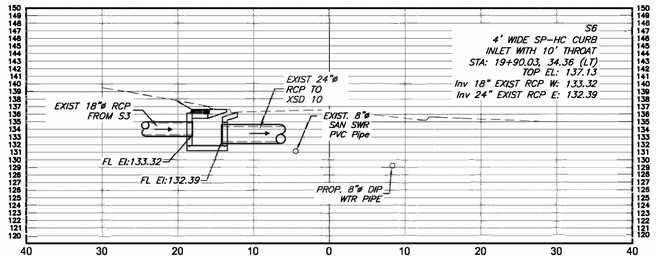

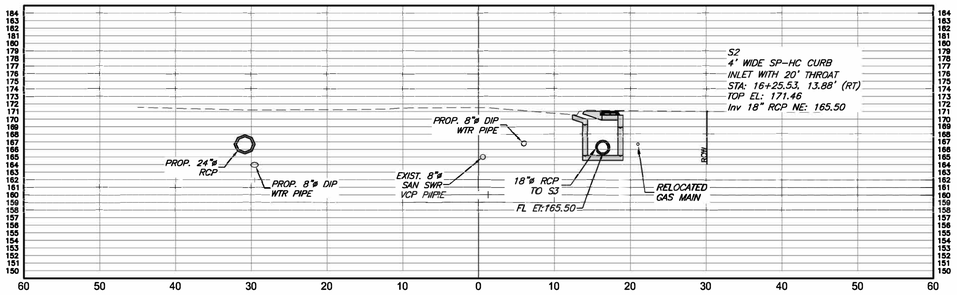

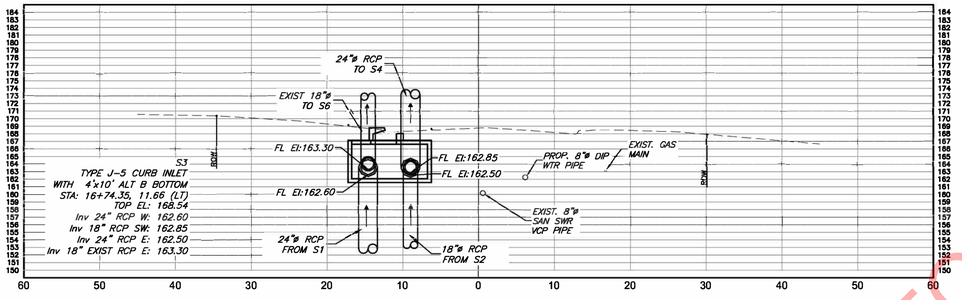

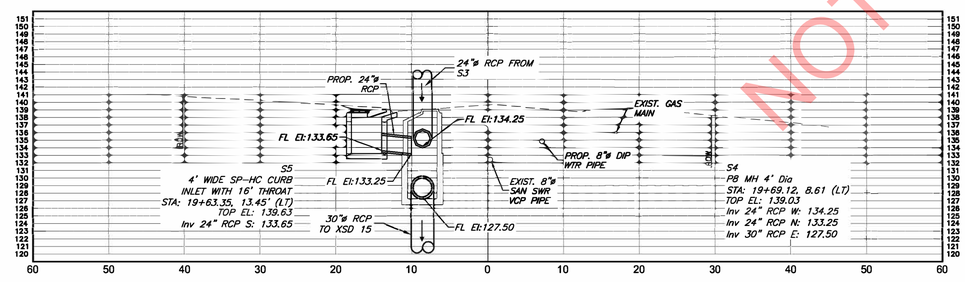

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HORIZ SCALE: 1"=10'
VERT SCALE: 1"=10'

FINAL PLANS NOVEMBER 12, 2019

ENGINEER OF RECORD
Joseph W. Miller
GEORGE & ASSOCIATES
CONSULTING ENGINEERS, INC.
1967 COMMONWEALTH LN., STE. 200
TALLAHASSEE, FL 32303
P.E. NO. 49889
Signature Date

ORIGINAL
REVISIONS:
1
2
3
4
5

SHEET
DRAINAGE STRUCTURES

PROJECT
CHESTWOOD AVE DRAINAGE IMPROVEMENTS

George & Associates Consulting Engineers, Inc.
CIVIL - ENVIRONMENTAL - TRANSPORTATION - SYSTEMS PLANNING - LAND USE
ENGINEERING BUSINESS NO. 7879
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JOB No.	19-5395
DRAWN	
DESIGNED	J.W.M.
CHECKED	J.W.M.
QC	J.W.M.

SHEET 7

NOTES

1. NUMBERS LEFT OF BORING INDICATE STANDARD PENETRATION TEST (SPT) N-VALUES FOR 12 INCH PENETRATION (UNLESS OTHERWISE NOTED).
2. SELECT SOIL BORINGS WERE AUGERED BY HAND TO DEPTHS OF UP TO 5.5 FEET. N-VALUES REPORTED IN THIS RANGE, DENOTED WITH AN ASTERISK (*), WERE DERIVED FROM HAND OPERATED STATIC CONE PENETROMETER TESTS.
3. NUMBERS IN CENTER OF BORING INDICATE STRATUM NUMBER.
4. GROUNDWATER WAS NOT ENCOUNTERED DURING THE SUBSURFACE INVESTIGATION. GROUNDWATER LEVEL FLUCTUATIONS SHOULD BE ANTICIPATED.
5. SOIL DESCRIPTIONS, TEST DATA, AND STANDARD PENETRATION VALUES SHOWN ARE FOR THE SOIL BORING ONLY AND MAY NOT APPLY TO ANY OTHER LOCATIONS EXCEPT AT THE LOCATIONS OF THE SOIL BORING. EXTRAPOLATION OF THE SOIL DATA TO OTHER LOCATIONS IS THE SOLE RESPONSIBILITY OF THE PERSON PERFORMING THE EXTRAPOLATION.

AUTOMATIC HAMMER

GRANULAR MATERIALS RELATIVE DENSITY	SPT (BLOWS/12 IN.)	SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/12 IN.)
VERY LOOSE	LESS THAN 3	VERY SOFT	LESS THAN 1
LOOSE	3 - 8	SOFT	1 - 3
MEDIUM DENSE	8 - 24	FIRM	3 - 6
DENSE	24 - 40	STIFF	6 - 12
VERY DENSE	GREATER THAN 40	VERY STIFF	12 - 24
		HARD	GREATER THAN 24

SPLIT-SPOON: INSIDE DIAMETER: 1.375 in.

OUTSIDE DIAMETER: 2.0 in.

AVG. HAMMER DROP: 30.0 in.

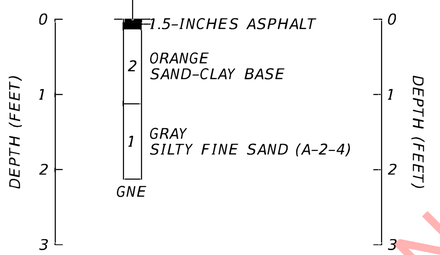
HAMMER WEIGHT: 140 lbs.

LEGEND

GROUNDWATER NOT ENCOUNTERED	GNE
N-VALUE EQUIVALENT (NOTE 2)	*N
AASHTO SOIL CLASSIFICATION GROUP	(A-3)

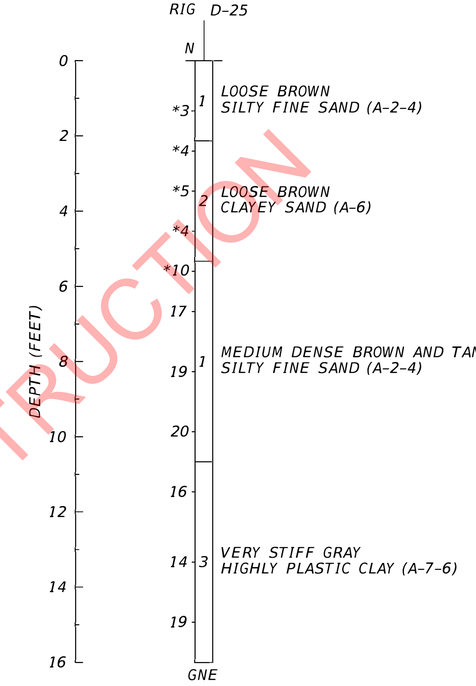
PAVEMENT CORE

BOR # PC-1
STA. 19+05
REF. ℄ CONST. CHESTWOOD AVENUE
DATE 6/13/2019
DRILLER J. NELSON



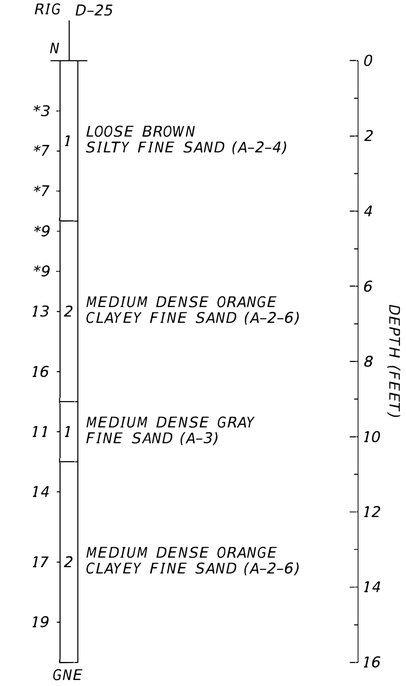
REPORT OF SOIL BORINGS

BOR # C-1
STA. 17+70
REF. ℄ CONST. CHESTWOOD AVENUE
OFF. 17 FEET LEFT
DATE 6/13/2019
DRILLER J. GAYMON
HAMMER AUTOMATIC
RIG D-25



BORING TERMINATED AT DEPTH OF 15 FEET

BOR # C-2
STA. 19+80
REF. ℄ CONST. CHESTWOOD AVENUE
OFF. 24 FEET LEFT
DATE 6/13/2019
DRILLER J. GAYMON
HAMMER AUTOMATIC
RIG D-25



BORING TERMINATED AT DEPTH OF 15 FEET

REPORT OF TESTS

SIEVE ANALYSIS RESULTS
PERCENT PASS (%)

STRATUM NO.	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	ATTERBERG LIMITS (%) NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP	DESCRIPTION		CITY OF TALLAHASSEE STRATUM NOTES
1	4	99-100	86-99	52-59	23-35	7-24	--	--	--	A-3/A-2-4	GRAY, BROWN, TAN	FINE SAND TO SILTY FINE SAND	SELECT
2	3	100	90-92	64-73	42-52	28-42	1	26	13	A-2-6/A-6	BROWN, ORANGE	CLAYEY FINE SAND TO CLAYEY SAND	SUITABLE
3	1	98	90	88	86	84	--	--	--	A-7-6	GRAY	HIGHLY PLASTIC CLAY	UNSUITABLE

FINAL PLANS NOVEMBER 12, 2019

ENGINEER OF RECORD
MYRON L. HAYDEN, P.E.
ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC.
104 NORTH MAGNOLIA DRIVE
TALLAHASSEE, FL 32304
P.E. NO. 34857
Signature Date

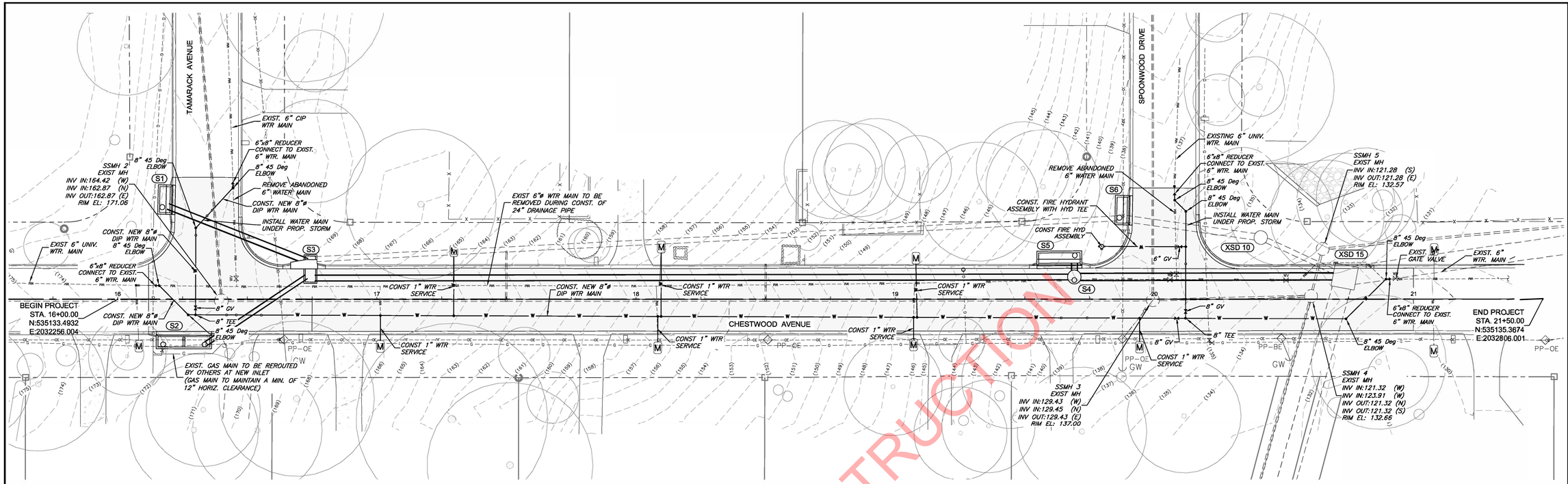
ORIGINAL
REVISIONS. 1 2 3 4 5

SHEET SOIL SURVEY

PROJECT CHESTWOOD AVE DRAINAGE IMPROVEMENTS

JOB No. 44-33-19-01
DRAWN KAM
DESIGNED MLH
CHECKED MLH
QC MLH

SHEET 8



UTILITY ADJUSTMENTS

SCALE:1" = 20'

1 inch = 20 ft.

CONSTRUCTION SEQUENCE

THIS PROJECT REQUIRES RELOCATION OF UTILITIES PRIOR TO CONSTRUCTION OF THE STORMWATER ITEMS. ALL WATER MAIN ADJUSTMENTS ARE TO BE MADE PRIOR TO CONSTRUCTION OF STORMWATER ITEMS. ALL WATER MAIN ADJUSTMENTS WILL BE MADE SO THAT THE EXISTING WATER MAINS AND SERVICES REMAIN IN-USE DURING RELOCATION OF THE WATER MAIN. THERE WILL BE NO EXTENDED WATER OUTAGES TO EXISTING CUSTOMERS DURING CONSTRUCTION. ALL ADJUSTMENTS TO WATER MAINS WILL ENSURE THAT A MINIMUM 12 INCHES CLEAR (VERTICAL SEPARATION) OF ALL PIPE CROSSINGS IS ACHIEVED (OD TO OD).

JOSEPH W. MILLER LICENSE No 49889 STATE OF FLORIDA PROFESSIONAL ENGINEER

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JOSEPH W. MILLER, P.E. NO. 49889

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FINAL PLANS NOVEMBER 12, 2019

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TALLAHASSEE, FL 32303
P.E. NO. 49889
Signature Date

ORIGINAL REVISIONS: 1 2 3 4 5

SHEET: UTILITY ADJUSTMENTS

PROJECT: CHESTWOOD AVE DRAINAGE IMPROVEMENTS

George & Associates Consulting Engineers, Inc.
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JOB No.	19-5395
DRAWN	ANW
DESIGNED	J.W.M.
CHECKED	J.W.M.
QC	J.W.M.

SHEET 9

Larry Richards 11/12/2019 P:\Projects\19-5395 Chestwood Ave Drainage Improvements\Drawings\Civil\9 Utility Adjustments.dwg

THE FOLLOWING NARRATIVE IS THE STORMWATER POLLUTION PREVENTION PLAN AND CONTAINS REFERENCES TO THE FDOT STANDARD SPECIFICATIONS, FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, AND OTHER SHEETS OF THESE CONSTRUCTION DOCUMENTS. THE FIRST SHEET OF THE CONSTRUCTION PLANS CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS:

- THIS NARRATIVE DESCRIPTION,
- THE DOCUMENTS REFERENCED IN THIS NARRATIVE,
- THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN
- REPORTS OF INSPECTION MADE DURING CONSTRUCTION.

1. SITE DESCRIPTION

1.A NATURE OF CONSTRUCTION ACTIVITY

THE PROJECT AREA IS LOCATED IN SECTION 23, TOWNSHIP 1N, RANGE 1N, WITHIN THE CITY OF TALLAHASSEE. THE PROJECT AREA IS RESTRICTED TO CHESTWOOD AVENUE BETWEEN TAMARACK AVENUE AND SPOONWOOD DRIVE. THE PURPOSE OF THE PROJECT IS TO REDUCE NUISANCE FLOODING ALONG CHESTWOOD AVENUE. THE IMPROVEMENTS INCLUDE REPLACING TWO EXISTING CURB INLETS, INSTALLING THREE NEW HIGH CAPACITY INLETS, INSTALLING NEW UNDERGROUND 18", 24", AND 30" STORMWATER PIPES, AND MODIFYING AN EXISTING MANHOLE. THE PROJECT ALSO INCLUDES THE INSTALLATION OF WATERMAINS AND RECONSTRUCTION OF THE ROADWAY.

1.B SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES

- SITE PREPARATION
  a) INSTALL TEMPORARY BARRICADE FENCE AS DIRECTED BY THE ENGINEER.
  b) INSTALL MATERIALS FOR PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION (INCLUDES SEDIMENT BARRIER).

- PROGRESSION OF WORK
  a) INSTALL ALL SEDIMENT AND EROSION CONTROL DEVICES AND TREE PROTECTION BARRIERS. CONSTRUCT DRAINAGE IMPROVEMENTS.
  b) EACH WORK AREA SHALL BE ISOLATED AND COMPLETED PRIOR TO PROCEEDING TO THE NEXT WORK AREA.

- FINAL SITE WORK:
  a) CLEAN ALL WORK AREAS.
  b) SOD ALL DISTURBED AREAS.
  c) REMOVE MATERIALS FOR PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION.

1.C AREA ESTIMATES

ALL ESTIMATES ARE BASED ON AREAS LIKELY TO BE IMPACTED BY CONSTRUCTION ACTIVITY. THE CITY CANNOT DICTATE MEANS AND METHODS OF THE CONTRACTOR. THEREFORE, AREAS OF DISTURBANCE ARE DIFFICULT TO DETERMINE PRIOR TO SELECTION OF THE CONTRACTOR AND ESTABLISHMENT OF THE SEQUENCE AND SCHEDULE FOR CONSTRUCTION. THE TOTAL ESTIMATED IMPACTS COVER 0.31 ACRES.

1.D STORMWATER DATA

THIS IS A STORMWATER RETROFIT PROJECT, AND NO IMPERVIOUS AREA IS BEING ADDED. THE PROJECT MODELING SUMMARY PREPARED BY THE CITY OF TALLAHASSEE WATER RESOURCES ENGINEERING DIVISION CONTAINS MORE DETAILED DRAINAGE INFORMATION.

1.E SITE MAP

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAP. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW.

1.F RECEIVING WATERS/WETLAND AREAS

MEEGINNIS TRIBUTARY TO LAKE JACKSON

2. CONTROLS

2.A EROSION AND SEDIMENT CONTROLS

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION AS WELL AS THE TRANSPORTATION OF ERODED MATERIALS OFF SITE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ANY AND ALL SEDIMENT CONTROL DEVICES THROUGHOUT THE DURATION OF CONSTRUCTION THE CONTRACT DRAWINGS ONLY INDICATE EROSION, SEDIMENT, AND TURBIDITY CONTROLS AT LOCATIONS DETERMINED IN THE DESIGN PROCESS AND USED FOR ESTIMATING BID QUANTITIES AND IS PROVIDED FOR GUIDANCE IN PREPARATION OF A SEQUENCE OF CONSTRUCTION/EROSION CONTROL PLAN. THE LOCATIONS AND TYPES OF ENVIRONMENTAL CONTROL FEATURES SHOWN MAY NOT ADEQUATELY PREVENT EROSION OR THE TRANSPORTATION OF ERODED MATERIAL OFF-SITE DURING EACH PHASE OF CONSTRUCTION. SUPPLEMENTARY SEDIMENT AND EROSION CONTROL DEVICES MAY BE REQUIRED TO ACCOMMODATE THE CONTRACTOR'S PHASING OF CONSTRUCTION ACTIVITIES.

PRIOR TO THE PRECONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL SUBMIT A DETAILED EROSION CONTROL PLAN WHICH WILL BE CONSIDERED THE FIRST FORMAL UPDATE OF THE SWPPP, TO SPECIFICALLY ADDRESS THE CONTRACTOR'S MEANS, METHODS, AND PHASING OF CONSTRUCTION ACTIVITIES. THE EROSION CONTROL PLAN WILL PROVIDE THE NAME AND PHONE NUMBER OF THE CONTRACTOR'S REPRESENTATIVE RESPONSIBLE ON A 24-HOUR BASIS FOR EROSION AND SEDIMENT CONTROL INSTALLATION AND MAINTENANCE. THE CONTRACTOR IS REQUIRED TO UPDATE THE SWPPP AS REQUIRED TO REFLECT ANY ADDITIONAL CONTROLS NECESSARY TO PREVENT THE POSSIBILITY OF SILTING ANY ADJACENT LOWLAND PARCEL OR RECEIVING WATER, OR OTHERWISE VIOLATING ANY LOCAL, STATE, OR FEDERAL PERMIT REQUIREMENTS.

2.A.1 STABILIZATION PRACTICES

A. THE CONTRACTOR WILL FURNISH, INSTALL, MAINTAIN, AND, WHEN APPROPRIATE, REMOVE ALL NECESSARY EROSION AND SEDIMENT CONTROLS.
B. EROSION AND SEDIMENT CONTROLS WILL BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION. SEDIMENT CONTROL DEVICES WILL BE EMPLOYED AS A PERIMETER OF DEFENSE AGAINST ANY TRANSPORTATION OF SILT OFF SITE.
C. THE AMOUNT OF AREA DISTURBED AT ONE TIME WILL BE LIMITED TO THE MINIMUM NECESSARY TO ADEQUATELY IMPLEMENT THE WORK. CONSTRUCTION OPERATIONS WILL BE CONTROLLED TO MINIMIZE UNPROTECTED ERODIBLE AREAS EXPOSED TO WEATHER, AND AREAS OUTSIDE THE LIMITS OF CONSTRUCTION WILL NOT BE DISTURBED.
D. EXCAVATED MATERIAL WILL NOT BE DEPOSITED IN LOCATIONS WHERE IT COULD BE WASHED AWAY BY HIGH WATER OR STORMWATER RUNOFF, AND STOCKPILES WILL BE COVERED OR ENCIRCLED WITH SEDIMENT CONTAINMENT DEVICES. NEW AND EXISTING STRUCTURES WILL BE PROTECTED FROM SILTATION DURING CONSTRUCTION.
E. STABILIZATION MEASURES WILL BE INITIATED FOR EROSION AND SEDIMENTATION CONTROL ON DISTURBED AREAS AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THE PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
F. PERMANENT EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREAS WILL BE COMPLETED IMMEDIATELY AFTER FINAL GRADING. WHEN IT IS NOT POSSIBLE TO PERMANENTLY PROTECT A DISTURBED AREA IMMEDIATELY AFTER GRADING OPERATIONS, TEMPORARY EROSION CONTROL MEASURES WILL BE INSTALLED. ALL TEMPORARY PROTECTION WILL BE MAINTAINED UNTIL PERMANENT MEASURES ARE IN PLACE AND ESTABLISHED.

2.A.2 STRUCTURAL PRACTICES

SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE CONTRACTOR WILL MAINTAIN EXISTING FLOW CAPACITY DURING HEAVY STORM EVENTS. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

* INLET PROTECTION

2.B STORMWATER MANAGEMENT

REFER TO CONSTRUCTION PLANS FOR CONVEYANCE OF STORMWATER RUNOFF.

2.C OTHER CONTROLS

2.C.1 WASTE DISPOSAL

TO BE DEVELOPED AS PART OF THE CONTRACTOR'S EROSION CONTROL PLAN.

2.C.2 OFF-SITE VEHICLE TRACKING AND DUST CONTROL

TO BE DEVELOPED AS PART OF THE CONTRACTOR'S EROSION CONTROL PLAN. ALL PAVED AREAS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE SWEPT AND KEPT CLEAN.

2.C.3 STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANKS

TO BE DEVELOPED AS PART OF THE CONTRACTOR'S EROSION CONTROL PLAN.

2.C.4 FERTILIZERS AND PESTICIDES

TO BE DEVELOPED AS PART OF THE CONTRACTOR'S EROSION CONTROL PLAN.

2.C.5 NON STORMWATER DISCHARGES AND HAZARDOUS WASTE

IF THE CONTRACTOR ENCOUNTERS A SPILL, CONSTRUCTION WILL STOP AND WORK WILL NOT RESUME UNTIL DIRECTED BY THE ENGINEER. DISPOSITION OF HAZARDOUS WASTE WILL BE MADE IN ACCORDANCE WITH THE REQUIREMENTS AND REGULATIONS OF ANY LOCAL, STATE, OR FEDERAL AGENCY WITH JURISDICTION.

3.0 CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

THE FOLLOWING ENVIRONMENTAL PERMITS HAVE BEEN OBTAINED FOR THIS PROJECT:

4.0 INSPECTION AND MAINTENANCE PROCEDURES

4.A ALL EROSION AND SEDIMENT CONTROLS WILL BE INSPECTED AT LEAST ONCE EACH WEEK AND AFTER EACH RAINFALL EVENT OF ONE INCH OR GREATER.
4.B EROSION AND SEDIMENT CONTROLS IN ACTIVE WORK ZONES WILL BE INSPECTED AT THE END OF EACH WORKDAY TO ASSURE THAT THEY HAVE NOT BEEN DISTURBED BY CONSTRUCTION ACTIVITIES.
4.C ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF IDENTIFYING THE NEED FOR REPAIR.
4.D HAY OR STRAW BALE BARRIERS WILL BE INSPECTED TO IDENTIFY DAMAGED BALES AND EROSION UNDER OR AROUND THE BALES. SEDIMENT WILL BE REMOVED AFTER EACH RAINFALL AND WILL NOT EXCEED A DEPTH OF ONE-HALF THE HEIGHT OF THE BARRIER.
4.E SILT FENCE WILL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL FOR DEPTH OF SEDIMENT, TEARS, AND ATTACHMENT TO POSTS, AND TO SEE THAT THE POSTS ARE FIRMLY EMBEDDED. BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
4.F THE CONTRACTOR WILL USE A MAINTENANCE INSPECTION REPORT FORM ACCEPTABLE TO THE ENGINEER TO REPORT ALL INSPECTION FINDINGS AND CORRECTIVE ACTIONS TAKEN AS A RESULT OF THE INSPECTION. THE CONTRACTOR WILL SIGN EACH REPORT AND SUBMIT A COPY TO THE ENGINEER.
4.G THE CONTRACTOR IS REQUIRED TO SWEEP THE STREETS WITHIN EACH ACTIVE WORK ZONE, AT THE END OF EACH WORK DAY AND AFTER RAINFALL EVENTS.

5.0 NON-STORMWATER DISCHARGES

THE FOLLOWING NON-STORMWATER DISCHARGES ARE ANTICIPATED TO OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

a. UNCONTAMINATED GROUNDWATER FROM DEWATERING OPERATIONS.

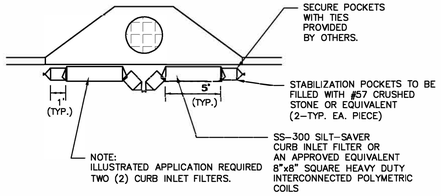
ALL NON-STORMWATER DISCHARGES WILL BE DIRECTED TO SEDIMENT BASINS PRIOR TO DISCHARGE.

DEFINITION

A FILTER TO BE PLACED IN FRONT OF A CURB INLET OR OPENING TO PREVENT THE MIGRATION OF SILT INTO THE STORM DRAIN SYSTEM.

PURPOSE

TO REDUCE TURBIDITY OF DOWNSTREAM WATERS BY ELIMINATING SILT BUILD-UP IN STORM DRAIN SYSTEMS THROUGH THE CURB INLETS.



INSTALLATION

1. IDENTIFY OPENING DIMENSIONS TO DETERMINE HOW MANY FILTERS ARE REQUIRED.
2. COMPLETELY FILL THE ROCK CHAMBERS AT EACH END OF THE FILTER.
3. SECURE THE OPEN ENDS OF THE ROCK CHAMBERS WITH TIE WIRES. FOR LARGER OPENINGS, SIMPLY PLACE FILTERS END TO END.

MAINTENANCE

ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES SHOULD BE INSPECTED DAILY, REMOVE SEDIMENT AND DISPOSE IN A PROPER MANNER. INSPECT FILTER FOR CUTS, ABRASIONS AND PROPER INSTALLATION. REPLACE OR REPOSITION AS NECESSARY. DISCONTINUE USE IF CURB INLET FILTRATION CREATES TRAFFIC HAZARD.

CURB INLET PROTECTION

N.T.S.

SILT FENCE MAINTENANCE

1. SILT FENCE SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

2. SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE SILT FENCE STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

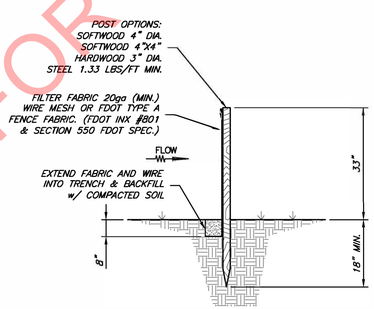
3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE SILT FENCE.

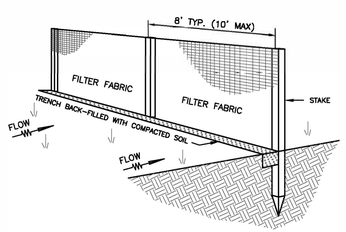
4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE FILTER FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

—FF—FF—FF—FF—FF— DENOTES SILT FENCE

SILT FENCE NOTES

N.T.S. **EC-008A**





SILT FENCE DETAILS

N.T.S. **EC-006**

JOSEPH W. MILLER LICENSE No 49889 STATE OF FLORIDA PROFESSIONAL ENGINEER

GEORGE & ASSOCIATES CONSULTING ENGINEERS, INC.
1967 COMMONWEALTH LANE, SUITE 200
TALLAHASSEE, FL 32309
CERTIFICATE OF AUTHORIZATION: 7879
JOSEPH W. MILLER, P.E. NO. 49889

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOSEPH W. MILLER, P.E. ON THE DATE INDICATED IN THE DIGITAL SIGNATURE.

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FINAL PLANS NOVEMBER 12, 2019

ENGINEER OF RECORD
Joseph W. Miller
GEORGE & ASSOCIATES
CONSULTING ENGINEERS, INC.
1967 COMMONWEALTH LN., STE 200
TALLAHASSEE, FL 32309
P.E. NO. 49889
Signature Date

ORIGINAL
REVISIONS.
1
2
3
4
5

SHEET
STORMWATER POLLUTION PREVENTION PLAN

PROJECT
CHESTWOOD AVE DRAINAGE IMPROVEMENTS

George & Associates Consulting Engineers, Inc.
CIVIL - ENVIRONMENTAL - TRANSPORTATION - SYSTEMS PLANNING - LAND USE
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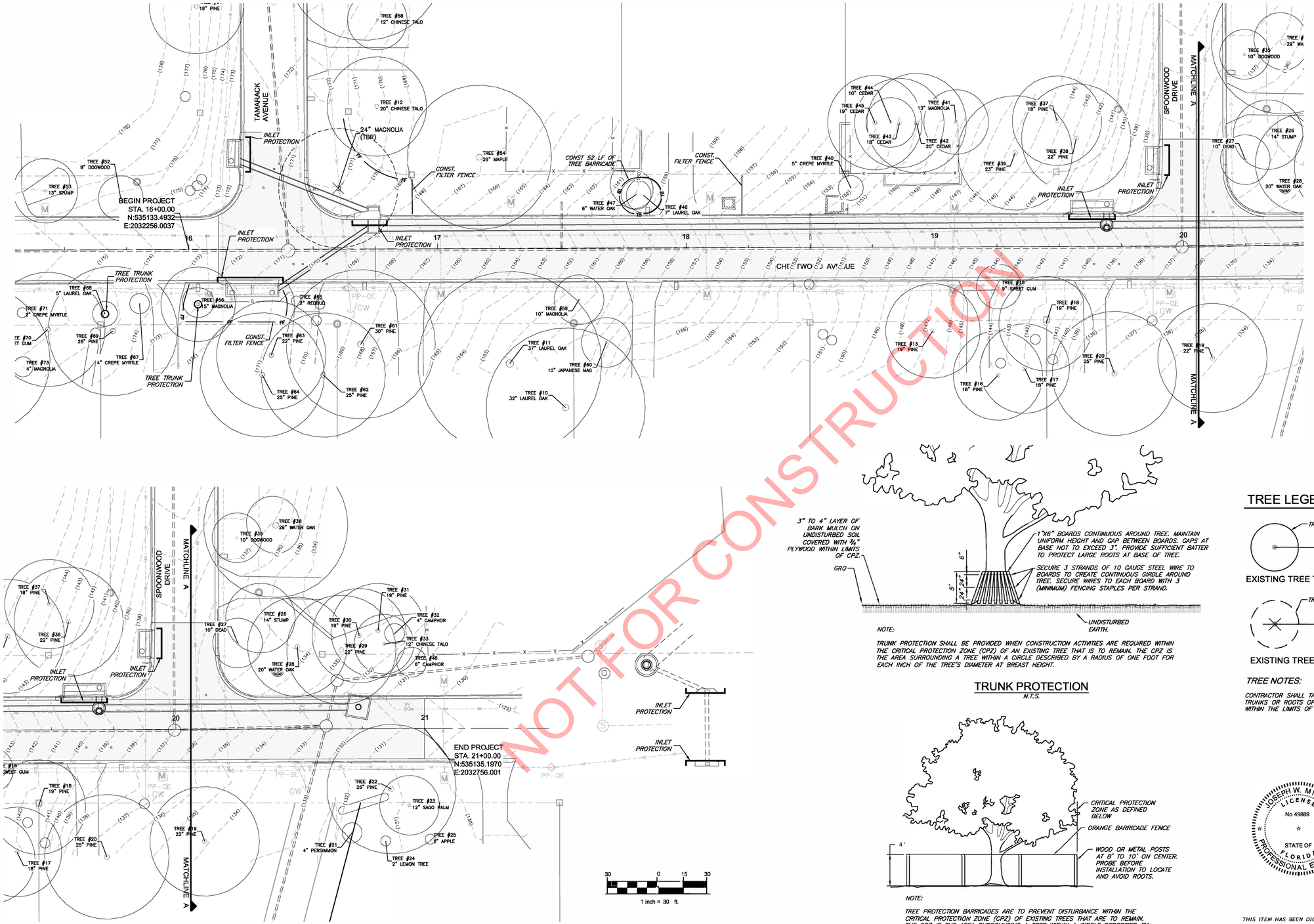
JOB No. 19-5395
DRAWN
DESIGNED J.W.M.
CHECKED J.W.M.
QC J.W.M.

SHEET 10



TREE PROTECTION / REMOVAL AND EROSION CONTROL

SCALE:1" = 20'

NOTE:

TRUNK PROTECTION SHALL BE PROVIDED WHEN CONSTRUCTION ACTIVITIES ARE REQUIRED WITHIN THE CRITICAL PROTECTION ZONE (CPZ) OF AN EXISTING TREE THAT IS TO REMAIN. THE CPZ IS THE AREA SURROUNDING A TREE WITHIN A CIRCLE DESCRIBED BY A RADIUS OF ONE FOOT FOR EACH INCH OF THE TREE'S DIAMETER AT BREAST HEIGHT.

TRUNK PROTECTION

N.T.S.

NOTE:

TREE PROTECTION BARRICADES ARE TO PREVENT DISTURBANCE WITHIN THE CRITICAL PROTECTION ZONE (CPZ) OF EXISTING TREES THAT ARE TO REMAIN. THE CPZ IS THE AREA SURROUNDING A TREE WITHIN A CIRCLE DESCRIBED BY A RADIUS OF ONE FOOT FOR EACH INCH OF THE TREE'S DIAMETER AT BREAST HEIGHT. THE AREA WITHIN THE BARRICADE IS NOT TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT.

TREE PROTECTION BARRICADE

N.T.S.

TREE LEGEND

TREE NOTES:

CONTRACTOR SHALL TAKE GREAT CARE AS TO NOT DAMAGE THE TRUNKS OR ROOTS OF THE TREES TO REMAIN ON SITE THAT FALL WITHIN THE LIMITS OF CONSTRUCTION

GEORGE & ASSOCIATES CONSULTING ENGINEERS, INC.
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FINAL PLANS NOVEMBER 12, 2019

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Signature Date

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1 2 3 4 5

SHEET
TREE PROTECTION / REMOVAL AND EROSION CONTROL

PROJECT
CHESTWOOD AVE DRAINAGE IMPROVEMENTS

George & Associates
Consulting Engineers, Inc.
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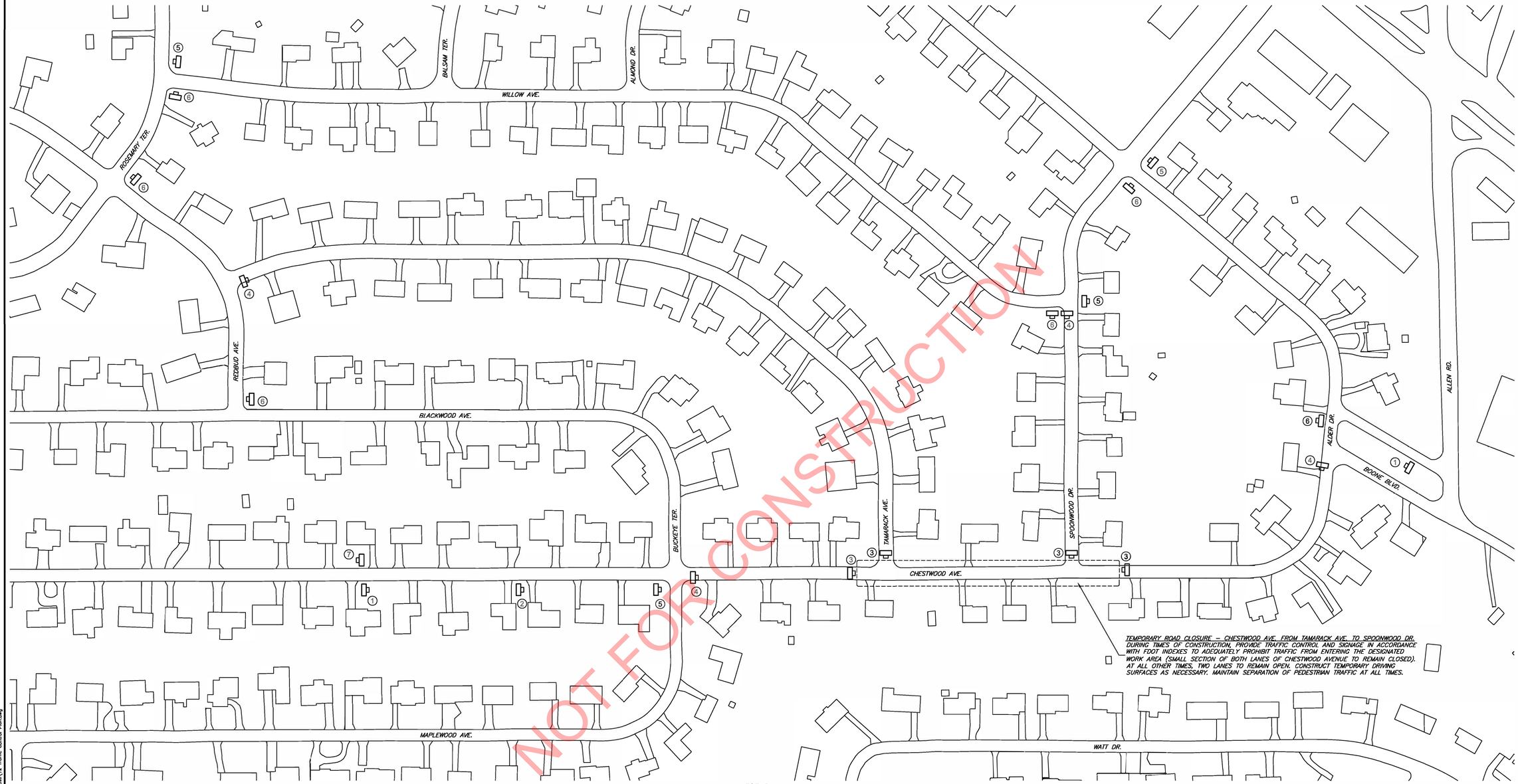
QC J.W.M.

SHEET 11



NOTES:

1. SEE FDOT DESIGN STANDARDS INDEX 600, 601, 602, 603, 604, AND 605 FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
2. CONTRACTOR IS RESPONSIBLE FOR ANY INTERNAL TRAFFIC CONTROL IN WORK AREAS.
3. THIS MOT PLAN DEPICTS AN ACCEPTABLE SIGNAGE LAYOUT FOR PHASE I OF THE PROPOSED WORK. THIS PLAN IS PROVIDED AS GUIDANCE AND DOES NOT COVER EVERY CONSTRUCTION SITUATION. CONTRACTOR IS TO READJUST, RELOCATE, AND/OR ADD MOT SIGNAGE AS NECESSARY. THE CONTRACTOR IS RESPONSIBLE FOR SAFE MOT FOR ALL SITUATIONS. THE CONTRACTOR MAY SUBMIT AN ALTERNATIVE TRAFFIC CONTROL PLAN (TCP) FROM THE PLAN PRESENTED IN THE CONTRACT DOCUMENTS TO THE CITY FOR APPROVAL.
4. CONTRACTOR MUST OBTAIN FROM THE CITY OF TALLAHASSEE – TRAFFIC ENGINEERING DIVISION A LANE CLOSURE MAINTENANCE OF TRAFFIC PERMIT.
5. CONTRACTOR TO COORDINATE WITH CITY AND HOME OWNERS WITHIN ROAD CLOSURE AREA FOR ACCESS TO HOME DURING WORK HOURS.

LEGEND:

	WORK ZONE SIGN	4	ROAD CLOSED TO THRU TRAFFIC
1	ROAD WORK AHEAD	5	DETOUR
2	ROAD CLOSED AHEAD	6	DETOUR
3	ROAD CLOSED	7	NO ROAD WORK

TRAFFIC CONTROL PLAN

SCALE:1" = 100'

100 0 50 100

1 inch = 100 ft.

JOSEPH W. MILLER LICENSE No 49889 STATE OF FLORIDA PROFESSIONAL ENGINEER

GEORGE & ASSOCIATES CONSULTING ENGINEERS, INC.
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FINAL PLANS NOVEMBER 12, 2019

ENGINEER OF RECORD
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P.E. NO. 49889

Signature _____ Date _____

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1 _____
2 _____
3 _____
4 _____
5 _____

SHEET
TRAFFIC CONTROL PLAN

PROJECT
CHESTWOOD AVE DRAINAGE IMPROVEMENTS

George & Associates Consulting Engineers, Inc.
CIVIL - ENVIRONMENTAL - TRANSPORTATION - SYSTEMS PLANNING - LAND USE
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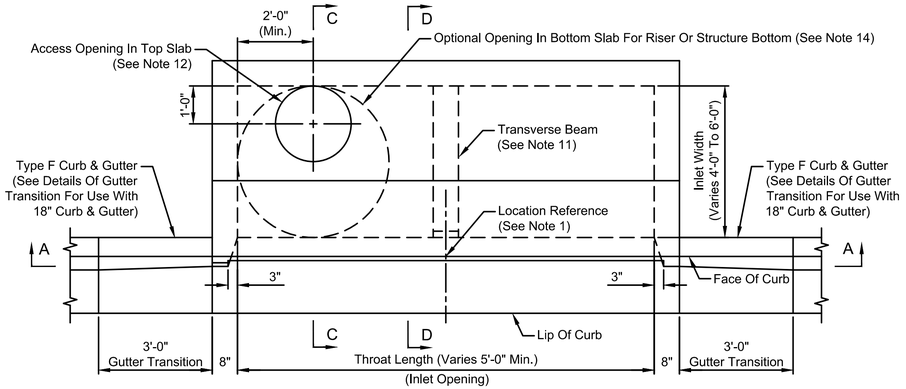
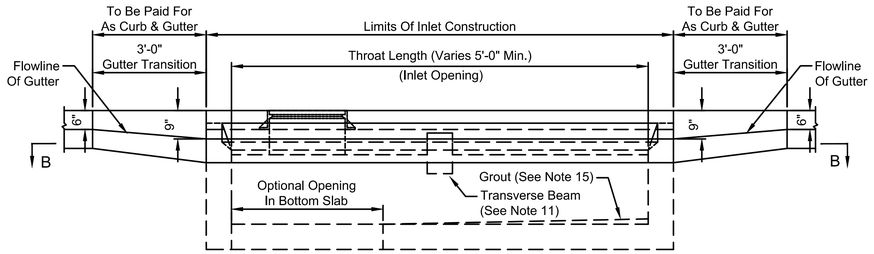
JOB No.	19-5395
DRAWN	ANW
DESIGNED	J.W.M.
CHECKED	J.W.M.
QC	J.W.M.

SHEET 12

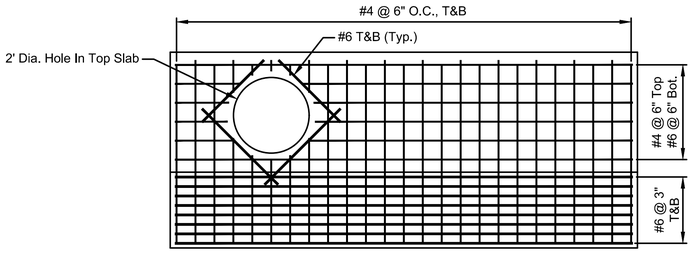
Larry Richards 11/12/2019 P:\Projects\19-5395 Chestwood Ave Drainage Improvements\Drawings\Civil\12 Traffic Control Plan.dwg



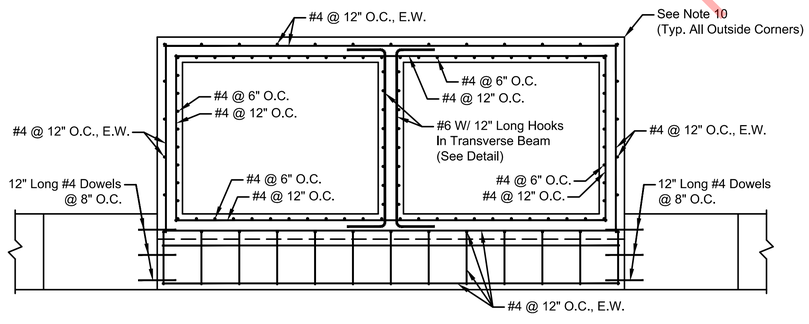
TOP VIEW



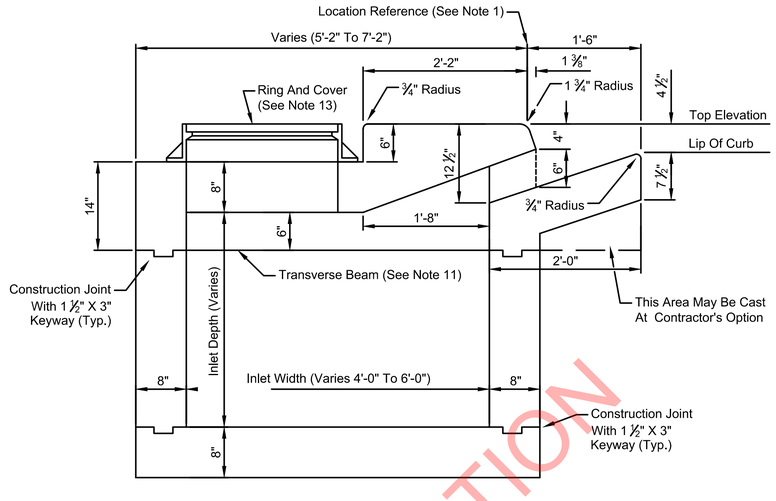
SECTION AA



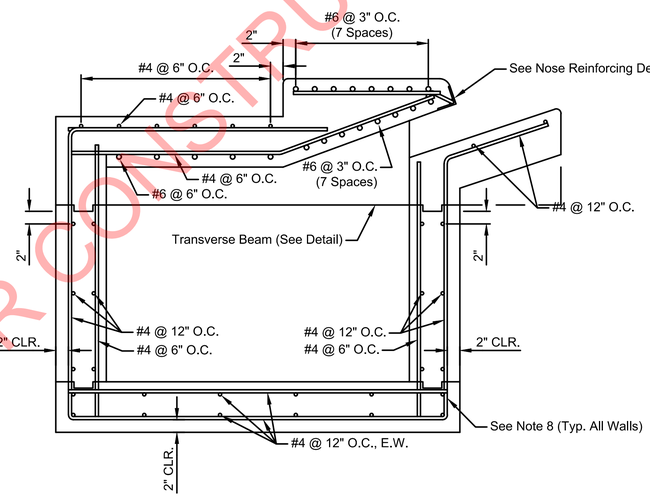
TOP SLAB REINFORCEMENT PLAN



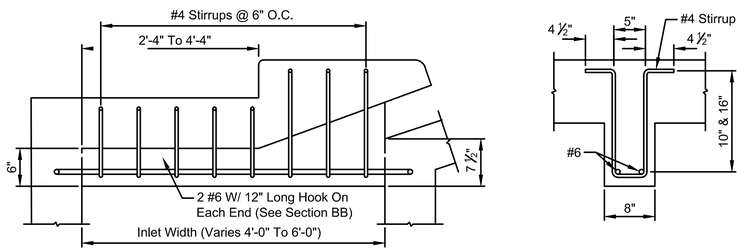
SECTION BB
(Optional Opening In Bottom Slab Not Shown)



SECTION CC
(Optional Opening In Bottom Slab Not Shown)



SECTION DD
(Optional Opening In Bottom Slab Not Shown)



SIDE VIEW

SECTION

TRANSVERSE BEAM DETAIL

GENERAL NOTES

1. The SP-HC inlet "location reference" in the plans is at the mid point of the inlet opening at the face of curb (See TOP VIEW).
2. The top of the inlet is to be parallel to the vertical alignment of the lip of curb. Bend the reinforcing steel and the nose reinforcing angle as required. The bottom slab is to be level. When an inlet is constructed on a roadway with existing curb and gutter, the lip of curb elevation and location shall match the existing lip of curb unless shown otherwise. The Contractor shall provide surveyed control points as needed to re-establish the horizontal location and vertical alignment of the lip of curb and to set the elevations of the top of the inlet.
3. The exposed portion of the inlet top shall slope toward the roadway at a 1.0% grade unless otherwise shown.
4. For inlets constructed on curves, determine the radii and modify the inlet details accordingly. Bend the steel as required. The front and back edges of exposed concrete surfaces are to be parallel.
5. All concrete shall be FDOT Class III, $f'c$ = 5,000 psi.
6. Chamfer all exposed edges and corners ¾" or tool to a ¼" radius unless otherwise shown.
7. All reinforcing steel is to be ASTM A-615 Grade 60 bars with 1 ¼ " minimum cover unless otherwise shown. Lap splices shall be a minimum of 16" in length for #4 bars and a minimum of 24" in length for #6 bars, except as noted.
8. Vertical reinforcement in the outside mats in the walls shall be a continuation of the reinforcement in the bottom mat in the floor slab. These bars may be spliced only if a minimum splice length of 16" is provided.
9. The outside row of vertical bars in the back and side walls shall be bent and shall extend a minimum of 16" into the top mat of the top slab.
10. Horizontal reinforcement at outside corners of wall sections shall continue around corners with lap splice, or corner bars shall be used to lap splice with horizontal wall reinforcement of each adjoining wall.
11. Transverse beams are required for all inlets with throat lengths greater than 10'-0". Transverse beams are to be equally spaced with center to center spacing not to exceed 10'-0".
12. A single access opening shall be cast in the top slabs of inlets from 5'-0" to 10'-0" in length. Additional access openings may be required for inlets greater than 10'-0" in length. An access opening shall be provided for each cell of an inlet greater than 10'-0" in length when the distance from the floor of the inlet to the bottom of the transverse beam(s) is less than 24". All access openings shall be placed adjacent to the rear wall of the inlet. Only one access opening is allowed in each segment of inlet top between an outside wall and a transverse beam or between two transverse beams. Access openings shall be placed near discharge pipes to the extent practicable. When inlets are placed on risers or structure bottoms, access openings shall be placed over the risers or structure bottoms. Reinforcing bars may be adjusted slightly to avoid interruption of the bars for the opening(s).
13. A ring and cover shall be provided for each access opening. A 3'-0" ring and 2-piece cover shall be installed for inlets 5' or greater in width when the distance from top of the ring and cover to invert of the discharge pipe is 5'-0" or greater. Slab type rings shall be cast into top slabs of inlets 3' in width and inlets 4' or greater in width with slots. A USF TJ (No. 8017195) or EJ Group No. 3062A2 cover shall be provided for each ring.
14. When an inlet is placed on a riser or structure bottom, the inlet shall be cast with a round opening in the bottom slab at the location of the riser or the opening in the top slab of the structure bottom. The diameter of the opening shall be a minimum of 4'-0" for an inlet 4' or greater in width, and shall be 3'-0" for a 3' wide inlet. The inlet shall be joined to the riser or structure bottom with 12" long #4 dowels evenly spaced at 12" maximum spacing around the opening. Dowels may be adhesive-bonded in accordance with FDOT Specification Section 416, or may be placed approximately 6" into fresh concrete, leaving the remainder to extend into the secondary cast.
15. Grout is to be placed at the bottom of the inlet as shown on FDOT Index No. 425-001 and sloped to the invert elevation of the outflow pipe or to the optional opening in the bottom slab.
16. See FDOT Index No. 425-001 for supplemental details.
17. The inlet bottom and walls may be precast in accordance with the requirements listed on Sheet 3.
18. SP-HC Inlets are to be paid for by the contract unit price for each inlet as identified by structure number. Payment shall include cost of concrete, reinforcing steel, cast iron ring(s) and cover(s), nose reinforcing, grout, and riser and/or structure bottom when called for in the plans. No adjustment in the contract unit cost will be made for precast construction.

LEGEND

O.C. = On Center CLR. = Clear
E.W. = Each Way T&B = Top And Bottom

REVISIONS

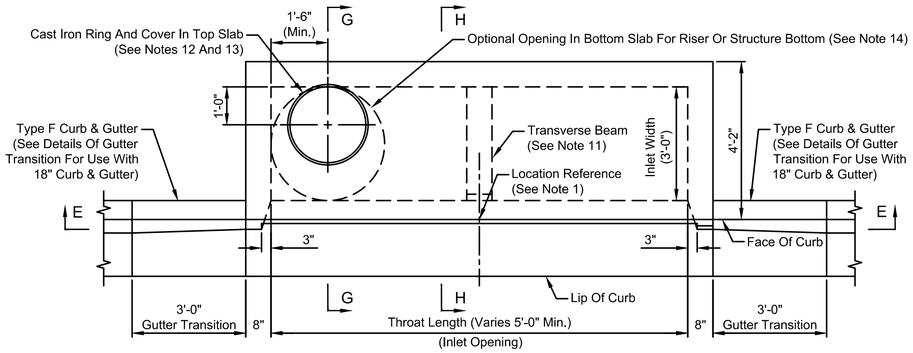
DESCRIPTION	BY	DATE
Udate Index References To FDOT Standard Plans	RJM	03/13/18

STRUCTURAL DESIGN BY
Stephen A. Nichols, P.E.
P.E. License No. 27463
Inovia Consulting Group
1983 Center Point Blvd., Suite 103
Tallahassee, Florida 32308

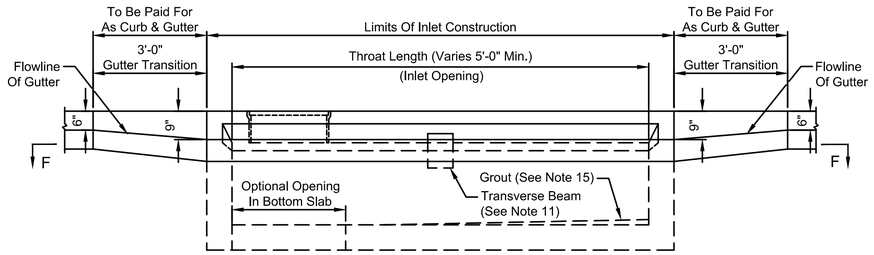
STANDARD DETAILS
CURB INLET TYPE SP-HC

CITY OF TALLAHASSEE
STORMWATER MANAGEMENT
300 South Adams Street, B-35, Tallahassee, Florida 32301

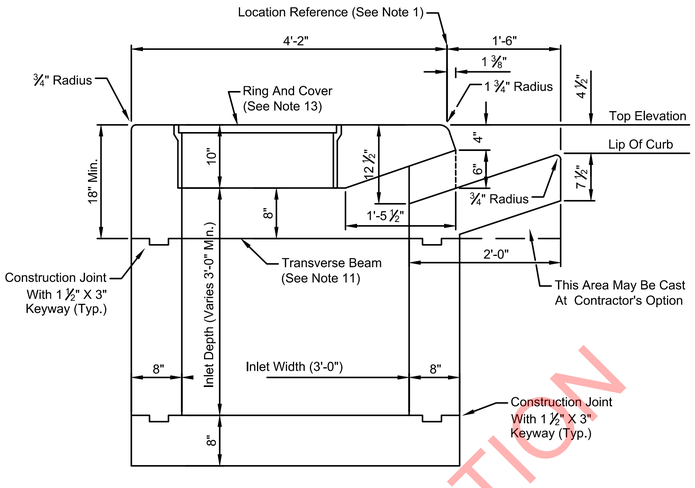
LAST REVISION
03/13/18



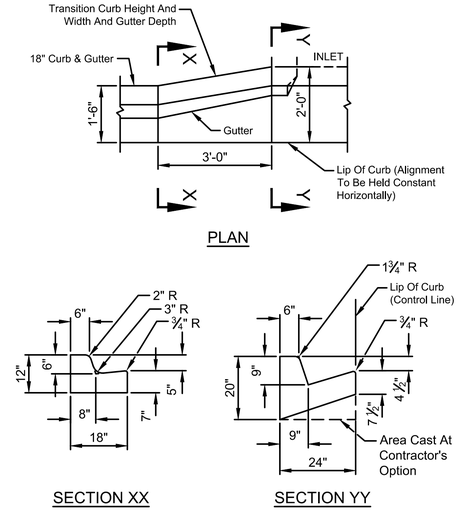
TOP VIEW - 3' WIDE INLET



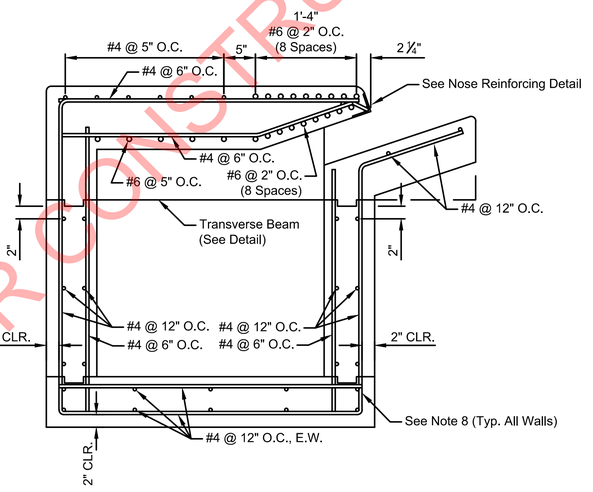
SECTION EE - 3' WIDE INLET



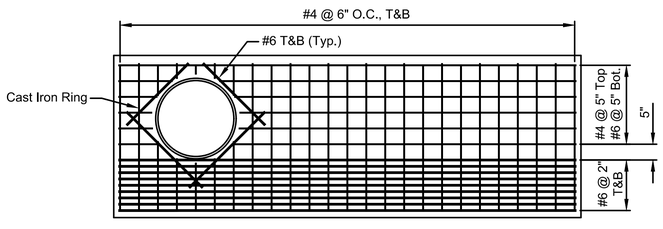
SECTION GG - 3' WIDE INLET
(Optional Opening In Bottom Slab Not Shown)



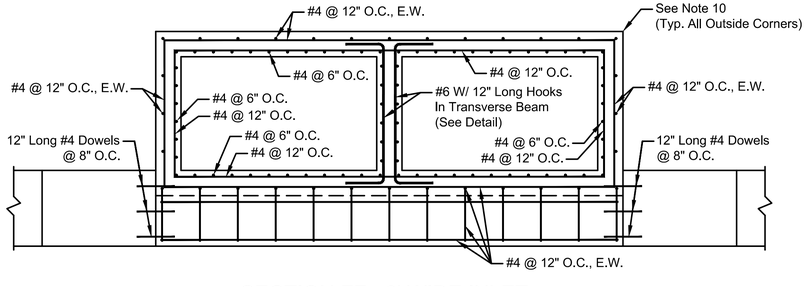
GUTTER TRANSITION FOR USE WITH 18" CURB & GUTTER



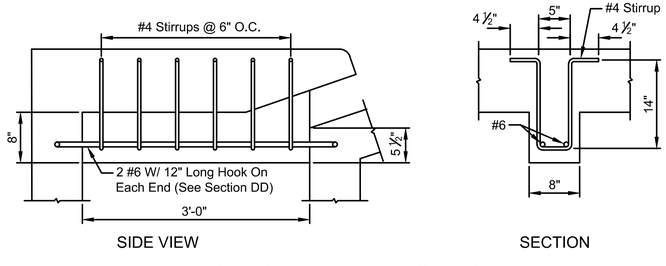
SECTION HH - 3' WIDE INLET
(Optional Opening In Bottom Slab Not Shown)



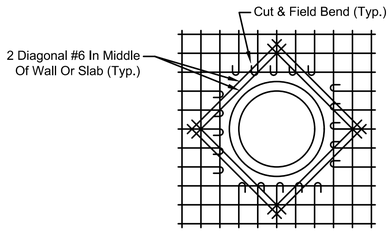
TOP SLAB REINFORCEMENT PLAN - 3' WIDE INLET



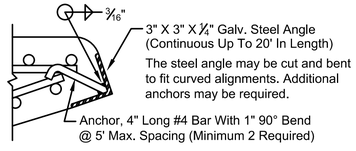
SECTION FF - 3' WIDE INLET
(Optional Opening In Bottom Slab Not Shown)



TRANSVERSE BEAM DETAIL - 3' WIDE INLET



REINFORCEMENT AT WALL OPENINGS



NOSE REINFORCING DETAIL

REVISIONS

DESCRIPTION	BY	DATE
Udate Index References To FDOT Standard Plans	RJM	03/13/18

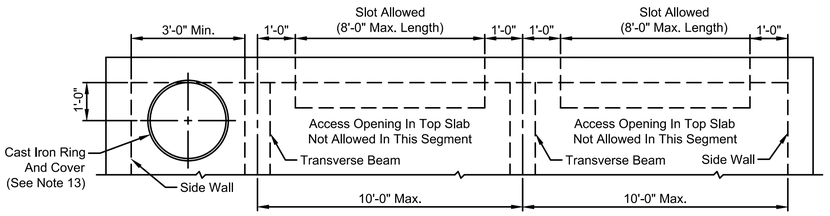
STRUCTURAL DESIGN BY
Stephen A. Nichols, P.E.
P.E. License No. 27463
Inovia Consulting Group
1983 Center Point Blvd., Suite 103
Tallahassee, Florida 32308

STANDARD DETAILS
CURB INLET TYPE SP-HC

CITY OF TALLAHASSEE
STORMWATER MANAGEMENT
300 South Adams Street, B-35, Tallahassee, Florida 32301

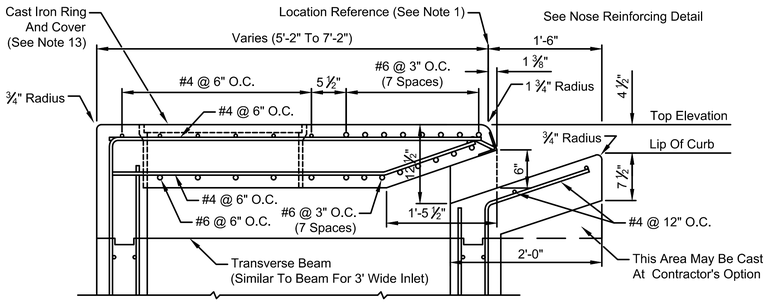
LAST REVISION
03/13/18

SHEET 14

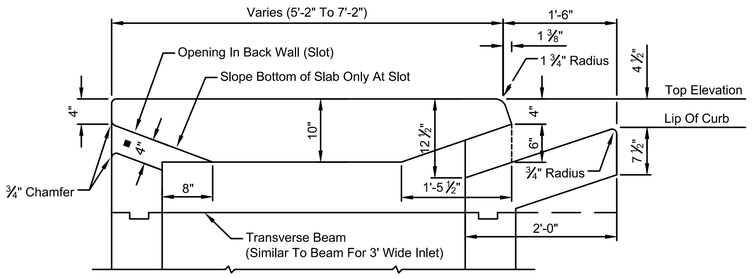


Note:
4'-0" through 6'-0" wide inlets with slots must be constructed with a 10" thick top slab for the entire length of the inlet as shown in the Partial Sections below.

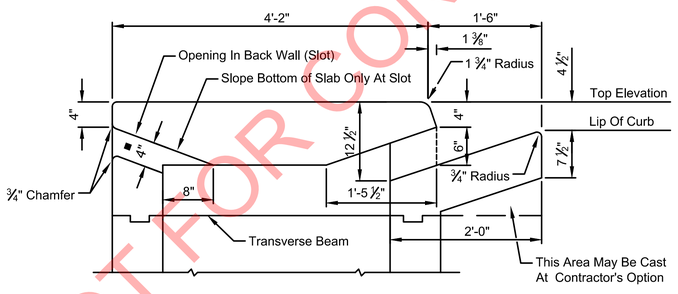
PARTIAL PLAN VIEW - SLOT LOCATIONS



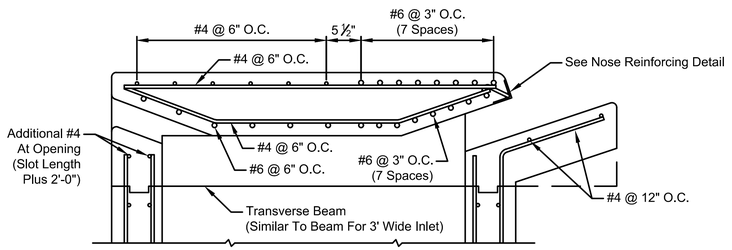
PARTIAL SECTION - 4'-0" THROUGH 6'-0" INLET WIDTH
(Section Of Inlet Without Slot)



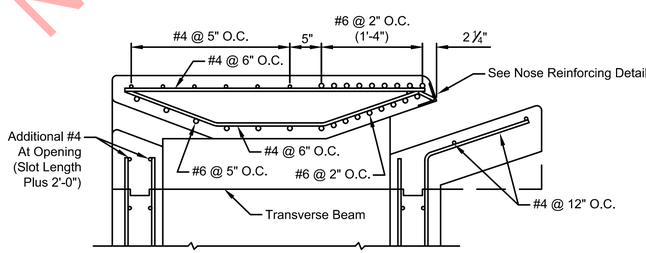
PARTIAL SECTION - 4'-0" THROUGH 6'-0" INLET WIDTH
(Section Of Inlet With Slot)



PARTIAL SECTION - 3'-0" INLET WIDTH
(Section Of Inlet With Slot)



PARTIAL SECTION - 4'-0" THROUGH 6'-0" INLET WIDTH
(Section Of Inlet With Slot)



PARTIAL SECTION - 3'-0" INLET WIDTH
(Section Of Inlet With Slot)

INLET MODIFICATIONS FOR CONSTRUCTION OF SLOTS IN BACK WALL

Inlet Depth	ESTIMATED QUANTITIES																					
	Inlet Width = 3'-0"						Inlet Width = 4'-0"						Inlet Width = 5'-0"						Inlet Width = 6'-0"					
	End Wall (Each)		Inlet Body (Per Linear Foot)		Transverse Beam (Each)		End Wall (Each)		Inlet Body (Per Linear Foot)		Transverse Beam (Each)		End Wall (Each)		Inlet Body (Per Linear Foot)		Transverse Beam (Each)		End Wall (Each)		Inlet Body (Per Linear Foot)		Transverse Beam (Each)	
	Class III Conc. CY	Reinf. Steel LB	Class III Conc. CY	Reinf. Steel LB	Class III Conc. CY	Reinf. Steel LB	Class III Conc. CY	Reinf. Steel LB	Class III Conc. CY	Reinf. Steel LB	Class III Conc. CY	Reinf. Steel LB	Class III Conc. CY	Reinf. Steel LB	Class III Conc. CY	Reinf. Steel LB	Class III Conc. CY	Reinf. Steel LB	Class III Conc. CY	Reinf. Steel LB	Class III Conc. CY	Reinf. Steel LB	Class III Conc. CY	Reinf. Steel LB
3' - 0"	0.50	80	0.40	82	0.05	31	0.60	83	0.44	82	0.05	31	0.70	99	0.49	87	0.05	48	0.81	114	0.54	100	0.06	65
4' - 0"	0.61	95	0.45	89	0.05	31	0.73	101	0.49	91	0.05	31	0.86	120	0.54	93	0.05	48	0.99	139	0.59	107	0.06	65
5' - 0"	0.72	109	0.50	96	0.05	31	0.86	119	0.54	98	0.05	31	1.02	141	0.59	100	0.05	48	1.17	163	0.64	114	0.06	65
6' - 0"	0.83	123	0.55	103	0.05	31	1.00	137	0.59	105	0.05	31	1.17	162	0.64	107	0.05	48	1.35	188	0.69	121	0.06	65
7' - 0"	0.93	138	0.60	110	0.05	31	1.13	154	0.64	112	0.05	31	1.33	183	0.69	114	0.05	48	1.53	212	0.74	128	0.06	65
8' - 0"	1.04	152	0.65	117	0.05	31	1.26	172	0.69	119	0.05	31	1.49	204	0.74	121	0.05	48	1.72	236	0.79	135	0.06	65
9' - 0"	1.15	167	0.70	124	0.05	31	1.39	190	0.74	126	0.05	31	1.64	226	0.79	128	0.05	48	1.90	281	0.84	142	0.06	65
10' - 0"	1.26	181	0.75	131	0.05	31	1.52	208	0.79	133	0.05	31	1.80	247	0.84	139	0.05	48	2.08	285	0.89	149	0.06	65

QUANTITY NOTES

A. Tabulated quantities are provided for estimating purposes only.

B. Quantities for depths and widths not shown may be estimated by interpolation.

C. Concrete quantities are neat line and have not been reduced for access opening(s) in top slab, opening in bottom slab, or slots.

D. Quantities of reinforcing steel do not include lap splices, corner bars, dowels at gutter transitions or the optional opening in bottom slab, or modifications to reinforcing at wall or slab openings.

E. Estimated quantities should be adjusted for openings in walls and slabs.

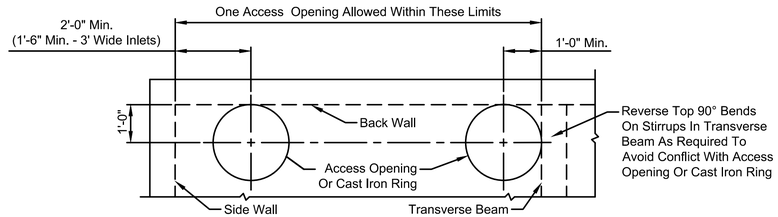
F. Quantities may be estimated as shown in the following example for an inlet that is 4'-0" wide, 6'-0" deep, and 15'-0" long:

Component	Class III Concrete		Reinforcing Steel	
End Wall	2 Ea. @ 1.00 CY =	2.00 CY	2 Ea. @ 137 LB =	274 LB
Inlet Body	15 LF @ 0.59 CY =	8.85 CY	15 LF @ 105 LB =	1,575 LB
Transverse Beam	1 Ea. @ 0.05 CY =	0.05 CY	1 Ea. @ 31 LB =	31 LB
Total		10.90 CY		1,880 LB

■ 4" Slot Opening Unless Otherwise Shown On The Plans.

REQUIREMENTS FOR PRECAST CONSTRUCTION

1. Shop drawings for all precast construction must be submitted for approval in accordance with Article 7.0 of the General Provisions.
2. Precast construction shall not extend above the upper construction joint in the walls as shown on the drawings.
3. Concrete shall meet the requirements specified in the General Notes on Sheet 1 for cast-in-place construction.
4. All reinforcing steel shall meet the requirements specified in the General Notes on Sheet 1 for cast-in-place construction and shall be the same size and configuration as shown on the drawings for cast-in-place construction.
5. Vertical reinforcement in the walls of precast structures must extend above the top of the structure to the projections shown on the drawings for cast-in-place construction or of sufficient length to provide a minimum splice length of 17".
6. Precast sections may be fabricated in segments under the following conditions:
   1) Open ends of segments must be X-braced to support construction loads.
   2) Cast-in-place closures between segments must be a minimum of 24" wide.
   3) All reinforcing steel within closure areas must be the same size and configuration as shown on the drawings for cast-in-place construction.
   4) Reinforcing bars in the floors and walls of precast sections must project into closure areas a minimum of 20" and be placed to form lap splices with bars in the opposing sections.
   5) Bonding adhesive (Sikadur 31, or approved equal) must be applied to mating surfaces of the closures immediately prior to placing concrete.
7. The excavated surface upon which a precast section is to be placed shall be level, firm and unyielding. Any unsuitable material encountered shall be removed and replaced with compacted A-3 material. A 3-inch minimum thick bedding layer of sand or granular material shall be placed in the footprint of the unit so that it extends at least 6 inches beyond the perimeter of the precast component.
8. Backfill shall not be placed against the walls of a precast section until the cast-in-place top has been poured and cured for a minimum of 5 days unless bracing that prevents wall deflection has been installed inside the precast section.



Note:
Only one access opening is allowed in each segment of inlet top between an outside wall and a transverse beam or between two transverse beams.

ACCESS OPENING LOCATION DETAIL
(Left Side Shown - Right Side Similar)

REVISIONS

DESCRIPTION	BY	DATE
Udate Index References To FDOT Standard Plans	RJM	03/13/18

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STANDARD DETAILS
CURB INLET TYPE SP-HC

CITY OF TALLAHASSEE
STORMWATER MANAGEMENT
300 South Adams Street, B-35, Tallahassee, Florida 32301

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