CONTRACT PLANS

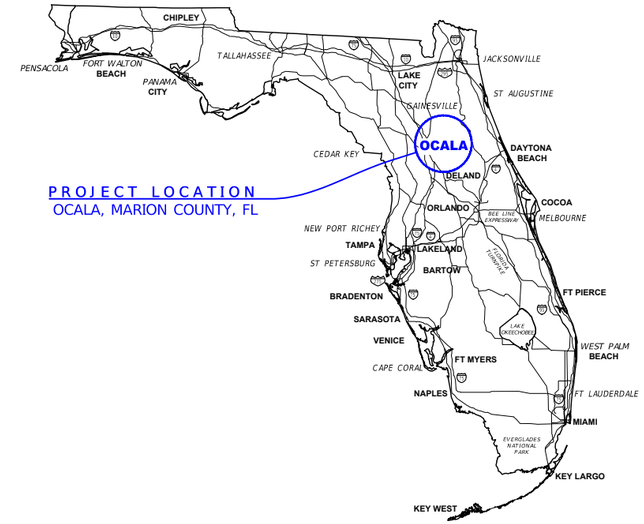
PROJECT ID: **ENGCIP24-0019**
CONTRACT No. **CIP/250438**

STRAIN POLE SIGNALIZATION AT THE INTERSECTION OF SW 20TH STREET AND SW 44TH AVENUE / SW 43RD COURT

CITY ENGINEER'S OFFICE
TRANSPORTATION ENGINEERING
1805 NE 30th AVENUE, BLDG 300
OCALA, FLORIDA 34470-4877

BID PLANS

ISSUE DATE: 05/08/2025



UTILITY COMPANIES

UTILITY COMPANY NAME	CONTACT	PHONE No	EMERGENCY
CITY OF OCALA WATER & SEWER	HECTOR A COLON, PE	(352) 401-6944	(352) 351-6782
CITY OF OCALA ELECTRIC UTILITY	STEVE C SHORT	(352) 351-6619	(352) 351-6666
CITY OF OCALA FIBER NETWORK (FOC)	BILL WEAKLAND	(352) 351-6912	*N/A*
CITY OF OCALA TRAFFIC SYSTEMS	NICK BLIZZARD	(352) 351-6707	*N/A*
TECO PEOPLES GAS of OCALA	LANDON MEAHL	(352) 622-0112	(407) 408-5566
LUMEN TECHNOLOGIES (formerly CenturyLink)	JOHN PLAMONDON	(352) 425-4444	(352) 425-4444
COX COMMUNICATIONS of MARION	*contact pending*	(352) 873-5631	(888) 269-9693
AT&T of MARION	DINO FARRUGIO	(561) 997-0240	*N/A*

GOVERNING AGENCY DOCUMENTS

U.S. DEPARTMENT OF TRANSPORTATION, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2023 EDITION)

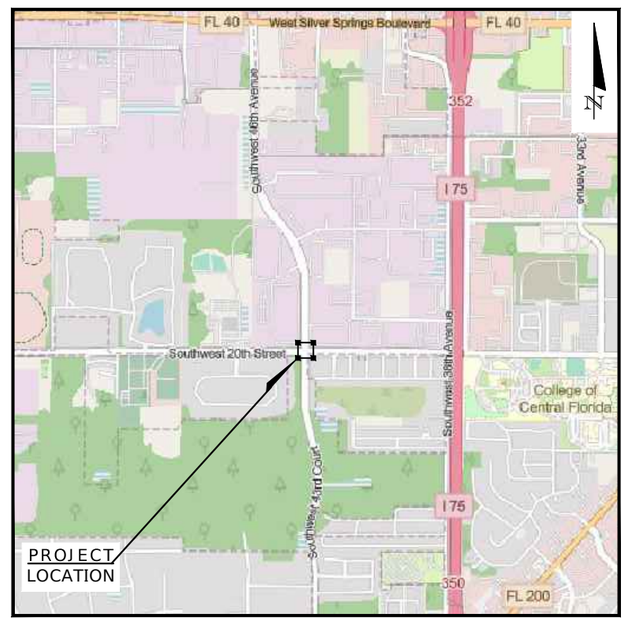
FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (FY 2024-25 VERSION)

FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (FY 2024-25 VERSION)

FLORIDA DEPARTMENT OF TRANSPORTATION, MANUAL ON UNIFORM MINIMUM STANDARDS FOR DESIGN CONSTRUCTION, AND MAINTENANCE OF STREET & HIGHWAYS "FLORIDA GREEN BOOK" (2018 EDITION)

CITY OF OCALA, LAND DEVELOPMENT CODE (CURRENT VERSION: MAY 17, 2024)

CITY OF OCALA, STANDARD SPECIFICATIONS FOR CONSTRUCTION OF STREETS, STORMWATER, TRAFFIC, WATER & SEWER INFRASTRUCTURE (JANUARY 2025)



PROJECT LOCATION MAP

NOT to SCALE

INDEX OF SHEETS

SHEET No	SHEET DESCRIPTION
T01	STRAIN POLE SIGNALIZATION KEY SHEET
T02	STRAIN POLE SIGNATURE SHEET
T03	GENERAL NOTES
T04	STRAIN POLE SIGNALIZATION NOTES
T05	ENVIRONMENTAL NOTES
T06	ABBREVIATIONS AND LEGENDS
T07	STRAIN POLE PAY ITEM LISTING AND QUANTITIES
T08	STRAIN POLE SIGNALIZATION PLAN, DETAILS, AND SCHEDULES
T09	STRAIN POLE PEDESTRIAN SIGNAL PLAN VIEW DETAILS
~~T10~~	~~NORTHWEST & NORTHEAST RETAINING WALL DETAILS~~
T10	STRAIN POLE TABULATION AND SPECIFICATIONS
T11	SOIL BORING LOCATION MAP, TABLE, AND LOGS
T12 and T13	SIGNING & PAVEMENT MARKING REMOVAL (2 sheets)
T14 and T15	PROPOSED SIGNING AND PAVEMENT MARKING (2 sheets)
S01	STRAIN POLE SCHEDULE AND NOTES (STRUCTURAL PE CERTIFICATION)

POSTED SPEED LIMIT

SW 44th AVENUE (NORTH) = 45 MPH
SW 20th STREET (E & W) = 45 MPH
SW 43rd COURT (SOUTH) = 40 MPH

Know what's below. 811 before you dig.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
05/08/25	SEPARATE RETAINING WALL CONSTRUCTION "BY OTHERS"		

ENGINEER OF RECORD
NOEL JOHN COOPER, P.E.
P.E. LICENSE NUMBER: 69534
STATE OF FLORIDA, DATED: / / .
VALID ONLY WITH EMBOSSED SEAL

PREPARED BY
OCALA City Engineer's Office

PROJECT No. 22602
PROJECT NAME: SW 44TH AVENUE - SW 20TH STREET SIGNALIZATION

STRAIN POLE SIGNALIZATION KEY SHEET

SHEET No. T01

NOEL JOHN COOPER
LICENSE
No. 69534
STATE OF FLORIDA
PROFESIONAL ENGINEER

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ON THE DATE ADJACENT TO THE SEAL

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CITY OF OCALA
CITY ENGINEER'S OFFICE
TRANSPORTATION ENGINEERING
1805 NE 30TH AVE., BLDG. 300
OCALA, FLORIDA 34470

NOEL JOHN COOPER, PE No 69534

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET INDEX

T01 - STRAIN POLE SIGNALIZATION KEY SHEET
T02 - STRAIN POLE SIGNATURE SHEET
T03 - GENERAL NOTES
T04 - STRAIN POLE SIGNALIZATION NOTES
T05 - ENVIRONMENTAL NOTES
T06 - ABBREVIATIONS AND LEGENDS
T07 - STRAIN POLE PAY ITEM LISTING AND QUANTITIES
T08 - SP SIGNALIZATION PLAN, DETAILS, AND SCHEDULES
T09 - SP PEDESTRIAN SIGNAL PLAN VIEW DETAILS
~~T10 - NORTHWEST & NORTHEAST RETAINING WALL DETAILS~~
T10 STRAIN POLE TABULATION AND SPECIFICATIONS
T11 - SOIL BORING LOCATION MAP, TABLE AND LOGS
T12 and T13 - EXISTING SIGNING & PAVEMENT MARKING REMOVAL (2 SHEETS)
T14 thru T15 - PROPOSED SIGNING AND PAVEMENT MARKING (2 SHEETS)

NOLAN B VILLATORO
LICENSE
No. 93862
STATE OF FLORIDA
PROFESIONAL ENGINEER

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ON THE DATE ADJACENT TO THE SEAL

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KIMLEY-HORN AND ASSOCIATES, INC
189 SOUTH ORANGE AVENUE, SUITE 1000
ORLANDO, FLORIDA 32801
REGISTRY 35106

NOLAN B VILLATORO, PE No 93862

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET INDEX

T02 - STRAIN POLE SIGNATURE SHEET
SO1 - STRAIN POLE SCHEDULE AND NOTES

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
05/08/25	SEPARATE RETAINING WALL CONSTRUCTION "BY OTHERS"		

ENGINEER OF RECORD

NOEL JOHN COOPER, P.E.
P.E. LICENSE NUMBER: 69534
STATE OF FLORIDA, DATED: / / .
VALID ONLY WITH EMBOSSED SEAL

PREPARED BY

OCALA City Engineer's Office

PROJECT No. 22602
PROJECT NAME: SW 44TH AVENUE - SW 20TH STREET SIGNALIZATION

STRAIN POLE SIGNATURE SHEET

SHEET No.
T02

GENERAL NOTES:

1. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE CITY OF OCALA ENGINEER OF RECORD, FDOT PERSONNEL, AND MARION COUNTY PERSONNEL.
2. THE CONTRACTOR SHALL APPLY FOR A CITY OF OCALA RIGHT-OF-WAY PERMIT NO LESS THAN FIVE (5) BUSINESS DAYS PRIOR TO STARTING THE PROPOSED CONSTRUCTION.
3. ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. STATIONS AND OFFSETS ARE BASED ON ROADWAY PLANS.
4. THESE PLANS REFLECT CONDITIONS KNOWN AT THE TIME OF PLAN DEVELOPMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL PERTINENT UTILITY COMPANIES AT LEAST (7) FULL BUSINESS DAYS PRIOR TO CONSTRUCTION SO THAT THESE COMPANIES CAN FIELD STAKE THE LOCATION OF THEIR FACILITIES PRIOR TO COMMENCEMENT OF WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY LOCATION COORDINATION EFFORTS AS REQUIRED BY OSHA AND THE FLORIDA STATUTE REGULATING PROTECTION OF EXISTING UTILITIES. THE CONTRACTOR IS FURTHER REMINDED THAT NOT ALL UTILITY PROVIDERS ARE SUBSCRIBERS TO THE SUNSHINE STATE ONE-CALL SYSTEM, AND IT SHALL BE INCUMBENT UPON THE CONTRACTOR TO MAKE EVERY EFFORT TO ENSURE THAT ALL UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION ACTIVITIES
6. IN THE EVENT THAT ACTUAL FIELD CONDITIONS PREVENT THE APPLICATION OF THESE PLANS AND/OR THE SPECIFICATIONS OR PROGRESSION OF THE WORK SPECIFIED IN THE PLANS, PARTICULARLY DUE TO CONFLICTS WITH ANY UTILITY LOCATIONS, ALL CONFLICTS SHALL BE RESOLVED PRIOR TO THE SETTING OF OR PLACING OF ANY SUB-GRADE AND/OR BURIED ITEMS. SHOULD THE CONTRACTOR ENCOUNTER ANY CONFLICTS DURING CONSTRUCTION ACTIVITIES, WORK IN THE AREA SHALL CEASE AND THE CITY TRANSPORTATION ENGINEER OF RECORD, NOEL J COOPER, P.E. (AT 352-351-6708) SHALL BE IMMEDIATELY NOTIFIED AND PROVIDED ALL PERTINENT INFORMATION FOR PREPARATION OF A REMEDIAL DESIGN SOLUTION.
7. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN FOR THIS PROJECT IN ACCORDANCE WITH THE CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD); THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS FOR ROAD CONSTRUCTION, LATEST EDITION; AND ANY REQUIREMENTS OF THE CITY OF OCALA THAT MEET OR EXCEED ANY OF THE AFOREMENTIONED GOVERNING JURISDICTIONS.
8. THE CONTRACTOR SHALL HAVE A STATE OF FLORIDA CERTIFIED MAINTENANCE OF TRAFFIC SUPERVISOR WITH THE RESPONSIBILITY OF MAINTAINING THE POSITIONING AND CONDITION OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS THROUGHOUT THE DURATION OF THE PROJECT. THE ENGINEER OF RECORD SHALL BE KEPT ADVISED AS TO THE IDENTIFICATION AND MEANS OF CONTACTING THIS AFOREMENTIONED SUPERVISOR ON A 24-HOUR BASIS.
9. THE REQUIRED TRAFFIC CONTROL DEVICES, WARNING DEVICES, AND BARRIERS ERECTED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION WHICH NO LONGER APPLY TO THE CURRENT CONSTRUCTION CONDITIONS, AND MAY OTHERWISE CREATE HAZARDOUS CONDITIONS DURING THE ONGOING CONSTRUCTION PROCESS, SHALL BE IMMEDIATELY REMOVED OR COVERED BY THE CONTRACTOR.
10. IF ANY EXISTING SIGNS ARE REMOVED OR RELOCATED DURING CONSTRUCTION, THE CONTRACTOR SHALL REINSTALL THEM IMMEDIATELY AT THE PROPER HEIGHT AND DISTANCE.
11. THE CONTRACTOR SHALL ADJUST ANY AND ALL EXISTING UTILITIES MANHOLE COVERS, INLETS, AND PULLBOX COVERS TO FINAL GRADE AS NECESSARY WITHIN THE WORK AREA.
12. ANY AND ALL EXISTING UTILITIES, SUCH AS WATER VALVES, MANHOLES, AND METER BOXES, SHALL BE PROTECTED FROM DAMAGE. IF DAMAGE OCCURS DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL REPAIR SAID ITEM(S) AT THEIR OWN EXPENSE.
13. THE CONTRACTOR SHALL INSTALL INLET PROTECTION DEVICES AT ALL INLETS TO MINIMIZE DEBRIS ENTERING THE STORM DRAIN SYSTEM. (AS APPROVED BY FDEP).
14. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ACCEPTABLE ACCESS TO ALL RESIDENCES AND BUSINESSES ALONG THE PROJECT ROUTE WHENEVER CONSTRUCTION ACTIVITIES INTERFERE WITH THE EXISTING MEANS OF ACCESS. FLAGMEN SHALL BE USED WHEN NO ALTERNATE ACCESS IS POSSIBLE
15. SIDEWALKS, INCLUDING PORTIONS OF DRIVEWAYS (EXISTING OR PROPOSED) WITHIN SIDEWALK PATH, SHALL COMPLY WITH ADA ACCESSIBILITY STANDARDS. WHERE EXISTING DRIVEWAYS ARE NOT COMPLIANT, THE CONTRACTOR SHALL ADVISE THE ENGINEER OF RECORD, AND REMOVE AND REPLACE SAID ITEM.
16. WHEN OPERATING OUTSIDE THE CITY OF OCALA RIGHT-OF-WAY, THE CONTRACTOR SHALL GIVE PROPER NOTIFICATION AND OBTAIN WRITTEN PERMISSION TO DO SO FROM THE OWNER OF EACH PARTICULAR PROPERTY.
17. UNLESS OTHERWISE SPECIFIED ON THE PLANS, THE CONTRACTOR SHALL MAINTAIN [AT LEAST] ONE LANE OF TRAFFIC IN EACH DIRECTION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR MAY, UPON APPROVAL FROM THE ENGINEER OF RECORD, RESTRICT TRAFFIC TO ONE-WAY OPERATION FOR SHORT PERIODS OF TIME PROVIDED THAT ADEQUATE MEANS OF TRAFFIC CONTROL ARE IN PLACE AND TRAFFIC IS NOT UNREASONABLY DELAYED.
18. ALL UNSUITABLE MATERIALS ENCOUNTERED SHALL BE DISPOSED OF AND REPLACED WITH APPROVED MATERIALS. NO TEMPORARY OR PERMANENT DEPOSITS SHALL BE MADE OUTSIDE OF THE PROPOSED RIGHT-OF-WAY EXCEPT AS APPROVED BY THE ENGINEER OF RECORD.
19. THE CONTRACTOR SHALL HAVE EXCAVATED MATERIALS LOADED ONTO DUMP TRUCKS DIRECTLY BEHIND THE EQUIPMENT AND HAULED OFF TO THE DESIGNATED SITE WITH CITY OF OCALA APPROVED TRAFFIC CONTROL MEASURES IN PLACE ACCORDINGLY TO ACCOMMODATE THIS PROCESS.
20. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO ORIGINAL CONDITION - UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER OF RECORD IN WRITING.
21. THE CONTRACTOR SHALL BE NOISE SENSITIVE FOR NIGHT OPERATIONS (WHEN APPLICABLE).
22. DURING NON-WORKING HOURS, THE CONTRACTOR SHALL NOT STORE ANY MATERIALS OR PARK ANY EQUIPMENT WITHIN 30 FEET OF THE EDGE OF THE TRAVELED WAY. IF THE ABOVE IS NOT POSSIBLE, THE CONTRACTOR SHALL APPOINT AN APPROVED STORAGE AREA, AND SUCH AREA SHALL BE PROPERLY DELINEATED AND ADVANCE WARNING SHALL BE UTILIZED.
23. THE CONTRACTOR SHALL PROVIDE THE CITY OF OCALA TRAFFIC DIVISION WITH ONE (1) ELECTRONIC COPY OF AN AS-BUILT PLAN FORMATTED IN AUTOCAD, VERSION 2021 OR GREATER AT THE CONCLUSION OF THE PROJECT SCOPE OF WORK.

ADA NOTES:

1. THE PROJECT SHALL BE CONSTRUCTED TO MEET CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN.
2. CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE FDOT STANDARD SPECIFICATIONS PLANS FOR ROAD AND BRIDGE CONSTRUCTION.

SURVEY & MAPPING NOTES:

1. COORDINATES AND BEARINGS SHOWN HEREON ARE BASED ON FLORIDA STATE PLANE COORDINATES, WEST ZONE AND WERE DERIVED FROM GPS OBSERVATIONS REFERENCED TO THE FDOT PERMANENT REFERENCE NETWORK.
2. ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 AND ARE REFERENCED TO CITY CONTROL POINTS SHOWN ON THIS DRAWING.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, TO ENSURE ALL EXISTING SURVEY MARKERS ARE LOCATED, CLEARLY MARKED AND PROTECTED, BY THE CONTRACTORS SURVEYOR.
4. ANY SURVEY MARKER, INCLUDING, BUT NOT LIMITED TO, PUBLIC LAND SURVEY SECTION CORNER MARKERS, BENCH MARKS, PROPERTY CORNERS, ETC., WHICH ARE DISTURBED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE PRIOR TO FINAL PAYMENT.
5. ADDITIONALLY, SURVEY STAKES PLACED MARKING THE LOCATIONS OF MARKERS, PROPERTY LINES, RIGHT-OF-WAY LINES, OR ANY OTHER POINT, PLACED FOR CONSTRUCTION AND SUBSEQUENTLY DISTURBED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AS NEEDED AT THE RESPONSIBILITY OF THE CONTRACTOR.
6. RESETTING OF MONUMENTS AND MARKERS SHALL BE PERFORMED BY A PROFESSIONAL LAND SURVEYOR, LICENSED TO PRACTICE IN THE STATE OF FLORIDA AND SHOWN AS RE-SET ON AS-BUILT PLANS.
7. UNLESS PRIOR AGREEMENT IS MADE, IT SHALL NOT BE THE RESPONSIBILITY OF THE CITY SURVEYOR TO REPLACE ANY SURVEY MARKERS.

SIGNING & PAVEMENT MARKING NOTES:

1. THE CONTRACTOR SHALL CONTACT THE CITY OF OCALA PUBLIC WORKS DEPARTMENT - TRAFFIC OPERATIONS AT (352)-351-6733 AT LEAST (48) HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. ALL ITEMS THAT REQUIRE RELOCATION OR REPLACEMENT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. ALL SIGN ASSEMBLIES AND SIGN PANELS TO BE RELOCATED SHALL BE RELOCATED OUT OF THE CONSTRUCTION AREA, THEN RE-INSTALLED AFTER CONSTRUCTION IS COMPLETED. ANY DAMAGED SIGNAGE SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL REPAIR OR REPLACE ALL PAVEMENT MARKINGS THAT ARE DAMAGED DURING CONSTRUCTION.
4. THERMOPLASTIC STRIPING, AS DEFINED UNDER FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION #711, IS REQUIRED FOR FINISHED CONSTRUCTION ON CITY OF OCALA RIGHT-OF-WAY. WHERE ROADWAY PAVEMENT IS INSTALLED OR REPLACED, THERMOPLASTIC STRIPING SHALL BE INSTALLED BY THE CONTRACTOR AT LEAST 14 DAYS AFTER FINAL PAVING; OTHERWISE THERMOPLASTIC STRIPING IS TO BE INSTALLED CONCURRENT TO OTHER PROJECT WORK. CONTRACTOR SHALL BE PAID FOR ONLY ONE APPLICATION OF THERMOPLASTIC STRIPING PER ITEM.
5. WHERE CROSSWALK ARE PROPOSED, THE CONTRACTOR SHALL ENSURE THAT ANY EXISTING STOP LINE(S) ARE A MIN. 4' FROM THE PROPOSED CROSSWALK LINES.

IMPORTANT NOTE TO CONTRACTOR

THESE PLANS HAVE BEEN PREPARED BASED UPON THE CITY OF OCALA'S 2023 PLANIMETRIC DRAWINGS PREPARED BY AERIAL CARTOGRAPHICS, INC. WITH AERIAL PHOTOGRAPHY DATES OF 12/14/22 AND 2/28/23. HORIZONTAL DATUM IS BASED ON THE CITY OF OCALA G.P.S. DERIVED THREE MILE CONTROL GRID, UTILIZING THE NORTH AMERICAN DATUM 1983, 1990 ADJUSTMENT OF THE STATE PLANE COORDINATES, FLORIDA WEST ZONE (902). VERTICAL DATUM IS BASED ON THE CITY OF OCALA G.P.S. DERIVED THREE MILE CONTROL GRID, UTILIZING THE NORTH AMERICAN VERTICAL DATUM OF 1988

THE CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING UTILITIES IN THE PROJECT AREA AND OTHER UTILITIES WHICH MAY BE AFFECTED BY THE PROPOSED CONSTRUCTION ACTIVITIES THE CITY OF OCALA WILL MAKE AVAILABLE TO THE CONTRACTOR AWARDED THE PROJECT ALL RELEVANT UTILITY INFORMATION IN THE AREA WITHIN ITS POSSESSION

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

NOEL JOHN COOPER, P.E.
P.E. LICENSE NUMBER: 69534
STATE OF FLORIDA, DATED: / / .
VALID ONLY WITH EMBOSSED SEAL

PREPARED BY

OCALA City Engineer's Office

PROJECT No. 22602

PROJECT NAME: SW 44TH AVENUE - SW 20TH STREET SIGNALIZATION

GENERAL NOTES

SHEET No. T03

SIGNALIZATION NOTES:

1. AS THE CITY OF OCALA IS THE MAINTAINING AGENCY; THE CONTRACTOR SHALL NOTIFY THE FOLLOWING PERSONNEL AT LEAST (7) BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION:

   a) THE ENGINEER OF RECORD, NOEL J COOPER, P.E. AT 352-351-6708

   b) THE TRAFFIC SYSTEMS MANAGER, NICK BLIZZARD AT 352-351-6707

   c) INTERCONNECT FIBER NETWORK SYSTEM, BILL WEAKLAND AT 352-351-6912.

2. IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY JACKING, DIRECTIONAL BORING, OR TRENCHING. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSAL'S IN ACCORDANCE WITH SECTION 2-4 OF THE SPECIFICATIONS.

3. THE CONTRACTOR SHALL HAND DIG THE FIRST 48" AT EACH POLE LOCATION AND THE FIRST 24" AT EACH PEDESTAL LOCATION TO VERIFY THAT THERE ARE NO UTILITY CONFLICTS. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK. EXTREME CAUTION SHALL BE USED BY THE CONTRACTOR WHEN EXCAVATING, INSTALLING, BACKFILLING AND COMPACTING AROUND EXISTING UTILITIES. ANY POLE / PEDESTAL ADJUSTMENTS MUST BE APPROVED BY THE ENGINEER OF RECORD.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL AND SHALL CONFORM TO THE 102-600 SERIES OF THE FDOT STANDARDS PLANS, 2024-2025 VERSION. ALL LANE/SIDEWALK CLOSURES SHALL BE APPROVED BY THE CITY TRAFFIC ENGINEER.

5. THE CONTRACTOR SHALL HAVE AN IMSA LEVEL II CERTIFIED SIGNAL TECHNICIAN ON CALL, WITH A MAXIMUM OF 2 HOURS RESPONSE TIME, UNTIL THE PROJECT IS FINALLY ACCEPTED BY THE CITY OF OCALA ENGINEER'S OFFICE.

6. TRAFFIC SIGNAL SHALL FLASH FOR NO LESS THAN (7) DAYS AND NO MORE THAN (14) DAYS PRIOR TO TURN ON INSPECTION. THE CONTRACTOR SHALL CONTACT TRAFFIC ENGINEER 2 BUSINESS DAYS PRIOR TO TURNING SIGNAL ON FLASH.

7. DURING SIGNAL FLASHING OPERATION THE CONTRACTOR SHALL PROVIDE THE RED ARROW OPERATION OF ALL LEFT TURN HEADS FLASH. UNLESS SPECIFIED OTHERWISE, FLASHING OPERATION SHALL BE AMBER FOR MOVEMENT 2 AND 6 AND RED FOR MOVEMENTS 1, 5, 4 AND 8.

8. THE CONTRACTOR SHALL VERIFY THE COLOR CODES FOR BOTH SIGNAL CABLE AND INTERCONNECT CABLE WITH THE CITY OF OCALA BEFORE ORDERING.

9. THE CONTRACTOR IS REQUIRED TO INSPECT THE INSTALLATION OF THE TRAFFIC SIGNALS IN ACCORDANCE WITH FDOT SPECIFICATIONS 105-8.10. THE CONTRACTOR SHALL COORDINATE THE FINAL INSPECTION IN ACCORDANCE WITH FDOT SPECIFICATION 611-2.2 WITH THE CITY OF OCALA ENGINEER OF RECORD, AND NICK BLIZZARD OF THE TRAFFIC DIVISION AT LEAST TEN (10) DAYS IN ADVANCE SO THEY MAY BOTH BE PRESENT.

10. THE CONTRACTOR SHALL COORDINATE TIMING AND AUTHORIZATION OF POWER SERVICE WITH CITY OF OCALA BUILDING DEPARTMENT, ELECTRICAL INSPECTIONS AND THE CITY OF OCALA ELECTRICAL UTILITY.

11. THE EXISTING STOP SIGNS SHALL BE REMOVED BY THE CONTRACTOR ON THE DATE OF THE TURN ON INSPECTION WHEN THE TRAFFIC SIGNAL IS PLACED INTO FULL OPERATION.

12. THE CONTRACTOR SHALL MAINTAIN THE VISIBILITY OF STREET NAME SIGNS DURING CONSTRUCTION OPERATIONS IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.

13. ANY EXISTING SIDEWALK OR SOD DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR IN KIND TO EXISTING CONDITION.

14. THE CONTRACTOR SHALL NOT PLACE PULL BOXES IN THE PEDESTRIAN RAMP AREA.

15. PRIOR TO INSTALLATION OF STRAIN POLES, THE CONTRACTOR SHALL COORDINATE WITH CITY OF OCALA ELECTRICAL UTILITY WITH RESPECT TO MAINTAINING MINIMUM CLEARANCE BETWEEN ENERGIZED CONDUCTORS AND POLES.

16. IN THE EVENT OF A CONFLICT WITH THE CROSSING OF EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR SHALL ADJUST THE DEPTH OF THE PROPOSED CONDUIT AS INSTRUCTED BY THE ENGINEER OF RECORD TO PROVIDE VERTICAL SEPARATION AS PER PREVAILING STANDARDS.

17. THE CONTRACTOR SHALL CONFIRM THAT THE DIRECTIONAL BORE CONSISTS OF FIVE (5) 2" SCHEDULE 40 PVC CONDUITS. ONE FOR THE SIGNAL CABLE, ONE FOR VIDEO DETECTION, ONE FOR THE PEDESTRIAN PEDESTAL CABLE(S), AND TWO SPARES, ONE OF WHICH MAY BE USED FOR FIBER OPTIC LINES.

18. IN THE EVENT THAT TRAFFIC SIGNAL CONSTRUCTION ACTIVITY AT THE INTERSECTION REQUIRES CLOSURE OF A LANE OR LANES, THE CONTRACTOR SHALL PROCURE THE SERVICES OF TRAFFIC OFFICER TO DIRECT TRAFFIC FOR THE DURATION OF THE CLOSURE(S). PAYMENT FOR THE OFFICER SHALL BE INCIDENTAL TO THE WORK AND WILL NOT BE PAID SEPARATELY.

19. PER FDOT STANDARD SPECIFICATIONS, ALL FIELD WIRING SHALL BE CLEARLY IDENTIFIED WITH WEATHERPROOF TAGS THAT ARE SECURELY ATTACHED TO EACH CABLE. THE CONTRACTOR SHALL SUBMIT THE PROPOSED TAGGING SYSTEM WITH THE SUBMITTED PACKAGE AS REQUIRED FOR PERMIT PROJECTS.

20. ALL TRAFFIC SIGNAL HEAD ASSEMBLIES SHALL HAVE A MINIMUM LOW CLEARANCE OF 17.5 FT AND A MAXIMUM HIGH POINT OF CLEARANCE OF 19 FT FROM THE BOTTOM OF THE ASSEMBLY TO THE ROADWAY.

21. ITS VIDEO CAMERA SHALL BE ATTACHED TO STRAIN POLE VIA J-PIPE AT A CLEAR HEIGHT OF 30 FT (MIN) ABOVE FINAL GRADE. J-PIPE TYPE AND POLE LOCATION SHALL BE COORDINATED WITH CITY OF OCALA TRAFFIC DIVISION MANAGER.

CONTROLLER ASSEMBLY NOTES:

1. THREE (3) SPARE CONDUCTORS PER SIGNAL CABLE ARE REQUIRED. SPARES SHALL BE BOUND TOGETHER AND GROUNDED TO THE BUS GROUNDING FACILITY INSIDE THE CONTROLLER CABINET.

2. A MANUAL PUSH BUTTON CORD SHALL BE FURNISHED IN THE CONTROLLER CABINET.

3. THE CABINET DOORS SHALL BE ORIENTED SO THAT THE DOORS OPEN AWAY FROM THE INTERSECTION.

4. THE CONTROLLER ASSEMBLY SHALL BE WIRED TO S.O.P. 10 OPERATION. MOVEMENTS 1 & 5 SHALL ALSO OPERATE PERMITTED (FLASHING YELLOW) WITH MOVEMENTS 2 & 6.

STRAIN POLE NOTES:

1. SIX FEET OF ADDITIONAL SIGNAL CABLE SLACK SHALL BE WOUND AND NEATLY STORED INSIDE THE PULLBOX.

PEDESTRIAN FEATURES:

1. THREE (3) SPARE CONDUCTORS ARE TO BE RUN TO THE FURTHEST PEDESTRIAN SIGNAL HEAD.

2. CONTRACTOR TO ENSURE THAT A 4-FOOT X 4-FOOT FLAT LANDING AREA IS ADJACENT TO ALL DETECTORS FOR PEDESTRIAN ACCESS.

3. ALL PEDESTRIAN SIGNALS SHALL BE 16" LED COUNTDOWN TYPE.

4. PEDESTRIAN SIGNAL HEADS SHALL BE ALUMINUM.

SIGNAL HEADS:

1. ALL VEHICULAR SIGNAL HEADS SHALL BE BLACK LIGHTWEIGHT, CAST HEAD WITH POLYCARBONATE BELOW AND SHALL HAVE BACK PLATES, TUNNEL VISORS, AND OPERATE WITH LEDS.

STRAIN POLE SIGNALIZATION LINE-TYPE, SYMBOLOGY & HATCH PATERN

	EXISTING CONDUIT GROUP		PROPOSED SIGNAL STRAIN CABLE
	PROPOSED PRIMARY CONDUIT GROUP (DIRECTIONAL BORE)	P#	PED XING SIGNAL DESIGNATION
	PROPOSED SECONDARY CONDUIT(S) (LOCALIZED AT EACH SIGNAL)	A	OVERHEAD SIGN DESIGNATION
A	STRAIN POLE DESIGNATION		PULL/SPLICE BOX DESIGNATION *(w 12" WIDE CONCRETE APRON)*
	SIGNAL HEAD (FACING DIRECTION)	C#	ITS CCTV CAMERA (FACING)
#	SIGNAL PHASE DESIGNATION		VEHICLE LOOP DETECTOR(s)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

NOEL JOHN COOPER, P.E.
P.E. LICENSE NUMBER: 69534
STATE OF FLORIDA, DATED: / / .
VALID ONLY WITH EMBOSSED SEAL

PREPARED BY

OCALA City Engineer's Office

PROJECT No. 22602
PROJECT NAME: SW 44TH AVENUE - SW 20TH STREET SIGNALIZATION

STRAIN POLE SIGNALIZATION NOTES

SHEET No. T04

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

ENVIRONMENTAL NOTES:

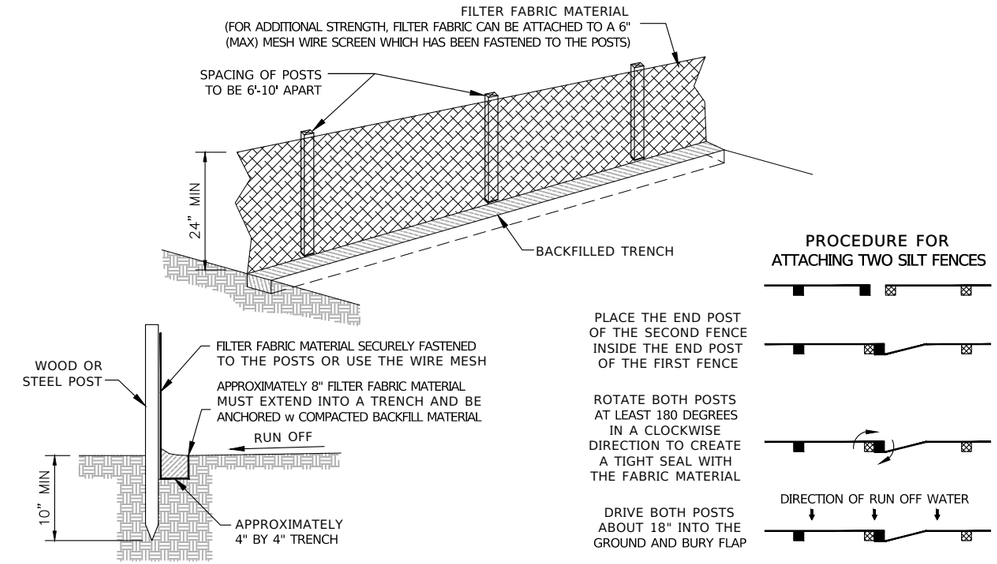
1. THE CONTRACTOR SHALL FORMULARIZE THEMSELVES WITH THE GENERAL NOTES AND FDOT NOTES THAT ARE PROVIDED IN THIS PLAN SET ON A SEPARATE SHEET
2. THE CITY OF OCALA OPERATES UNDER A FDEP NPDES 'GENERAL PERMIT THAT REQUIRES THE CITY AND, IN TURN, ITS CONTRACTORS TO FOLLOW CERTAIN AND SPECIFIC ENVIRONMENTAL PRACTICES AND PROCEDURES TO PREVENT THE POLLUTION OF THE CITY'S GROUNDWATER AND STORMWATER SYSTEM
3. ALL WATER COLLECTED AND PUMPED DURING TRENCH DEWATERING ACTIVITIES SHALL BE DISPOSED OF IN UPLAND AREAS INTO DISCHARGE LOCATIONS THAT SHALL BE A MINIMUM OF 75 FEET FROM THE NEAREST WATER BODY OR WETLAND AREA TO ALLOW FOR MAXIMUM OVERLAND FILTRATION OF SOIL PARTICLES
4. STAKED SILT SCREEN, TURBIDITY BARRIERS OR OTHER PERIMETER CONTROL METHODS APPROVED BY THE FDEP SHALL BE UTILIZED AS SILT BARRIERS AND PLACED IN LOCATIONS SHOWN ON THE PLANS AND AT OTHER LOCATIONS AS REQUIRED TO KEEP SEDIMENT FROM REACHING PRIVATE PROPERTY. THESE BARRIERS SHALL BE INSTALLED BY THE CONTRACTOR BEFORE COMMENCING WITH ANY CONSTRUCTION ACTIVITIES WITHIN OR ADJACENT TO PRIVATE PROPERTY
5. THE CONTRACTOR SHALL MONITOR AND MAINTAIN ALL SILT BARRIERS AND FENCING INCLUDING DAILY INSPECTIONS TO CHECK THEIR INTEGRITY. ANY LOOSE OR DAMAGED SILT BARRIERS AND FENCING SHALL BE IMMEDIATELY REPAIRED OR REPLACED AS NECESSARY. ONCE CONSTRUCTION IS COMPLETED AND FINISHED GRADING AND STABILIZATION HAS BEEN ACHIEVED, SILT BARRIERS AND FENCING SHALL BE COMPLETELY REMOVED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER OF RECORD, AND BEFORE FINAL ACCEPTANCE
6. THE CONTRACTOR SHALL NOT REMOVE ANY TREES WITHOUT COORDINATING SUCH REMOVAL WITH THE ENGINEER OF RECORD. IF ANY TREES ARE REMOVED IN WETLAND JURISDICTIONAL, OR NATIVE VEGETATION AREAS WITHOUT PROPER AUTHORIZATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A DETAILED RESTORATION AND/OR MITIGATION PLAN, SUBMITTING THE PLAN TO, AND OBTAINING APPROVAL FROM THE FDEP, THE WATER MANAGEMENT DISTRICT, THE CITY ENGINEER'S OFFICE, THE OWNER AND THE ENGINEER OF RECORD, AS WELL AS COMPLETING ANY MONITORING AND MAINTENANCE REQUIREMENTS IMPOSED AS A RESULT OF THE TREE REMOVAL

HAZARDOUS MATERIALS

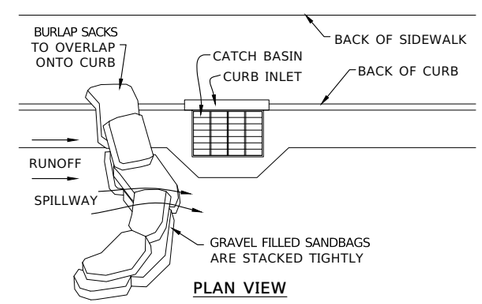
1. THE CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES TO MINIMIZE THE RISK OF SPILLS OR UNINTENDED EXPOSURE OF PETROLEUM AND OTHER HAZARDOUS MATERIALS TO STORMWATER RUNOFF OR SEEPAGE INTO THE GROUNDWATER
2. THE CONTRACTOR SHALL HAVE PRE-PREPARED PROCEDURES CLEARLY POSTED FOR SPILL CONTAINMENT AND CLEAN-UP
3. THE CONTRACTOR SHALL STORE AND USE PETROLEUM AND OTHER HAZARDOUS PRODUCTS ACCORDING TO RECOMMENDED PROCEDURES
4. THE CONTRACTOR SHALL DESIGNATE AN AREA FOR DISCHARGE OF SURPLUS CONCRETE, AND CONCRETE TRUCK DRUM WASH WATER. INSTALL A CONTAINMENT BERM AROUND THIS DESIGNATED AREA TO PREVENT RUNOFF BEYOND THE DESIGNATED AREA. ALL SURPLUS CONCRETE SHALL BE REMOVED FROM THE PROJECT SITE PRIOR TO FINAL INSPECTION
5. THE CONTRACTOR SHALL UPON RELEASE, IMMEDIATELY INITIATE RECOMMENDED METHODS FOR SPILL CONTAINMENT AND CLEAN-UP
6. THE THE CONTRACTOR SHALL, WITHIN 24-HOURS OF THE SPILL/RELEASE, NOTIFY THE 'STATE WARNING POINT' (AT 1.800.320.0519 OR 1.850.413.9911) OF ALL RELEASES EQUAL TO OR EXCEEDING THE REPORTABLE QUANTITY
7. THE CONTRACTOR SHALL HANDLE, COLLECT, AND DISPOSE OF HAZARDOUS MATERIALS, SANITARY WASTE, AND CONSTRUCTION WASTE MATERIALS ACCORDING TO THE APPLICABLE STATE LAWS AND REGULATIONS, CITY ORDINANCES, OR AS DIRECTED BY THE CITY

EROSION CONTROL NOTES:

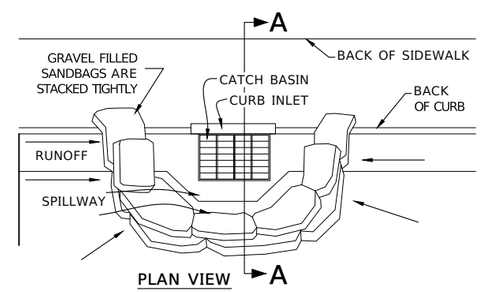
1. THE CONTRACTOR SHALL ADHERE TO ALL STATE AND LOCAL EROSION CONTROL REGULATIONS
2. THE FOLLOWING PRACTICES WILL BE USED BY THE CONTRACTOR TO MAINTAIN EROSION AND SEDIMENT CONTROLS:
   a) ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER
   b) IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT
   c) ALL POLLUTION CONTROLS SHALL BE MAINTAINED AT ALL TIMES
   d) BUILT-UP SEDIMENT WILL BE REMOVED FROM STAKED SILT FENCE WHEN IT HAS REACHED ONE-HALF THE HEIGHT OF THE SILT FENCE
2. THE CONTRACTOR SHALL PREVENT THE DISCHARGE OF SEDIMENT DUE TO CONSTRUCTION OPERATIONS. ALL NEW AND EXISTING DRAIN PIPES AND STRUCTURES SHALL BE FLUSHED CLEAN PRIOR TO FINAL PAYMENT
3. ALL STORM SEWER INLETS SHALL BE PROTECTED BY THE CONTRACTOR SO THAT SEDIMENT LADEN WATER WILL NOT ENTER THE STORM SYSTEM WITHOUT FIRST BEING FILTERED
4. ALL DISTURBED AREAS ARE TO BE SODDED. ALL STABILIZATION PRACTICES SHALL BE PERFORMED AS SOON AS PRACTICAL AT LOCATIONS WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL GROUND COVER IS ACHIEVED AND, IN THE OPINION OF THE ENGINEER OF RECORD, PROVIDES ADEQUATE COVER AND IS MATURE ENOUGH TO CONTROL SOIL EROSION SATISFACTORILY, TO SURVIVE ADVERSE WEATHER CONDITIONS
5. THE CONTRACTOR SHALL PLACE STAKED SILT FENCE(S) IN ACCORDANCE WITH CITY OF OCALA SPECIFICATIONS
6. THE CONTRACTOR SHALL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES. ALL FERTILIZERS, HYDROCARBON, OR OTHER CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER
7. THE CONTRACTOR SHALL INSURE THAT LOADED HAUL TRUCKS BE COVERED WITH TARPAULIN(S), EXCESS DIRT ON THE ROAD SHALL BE REMOVED DAILY, AND AREAS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE DAMPENED WITH WATER AS REQUIRED FOR DUST CONTROL
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REPAIRS OF EROSION AND SEDIMENT CONTROL DEVICES, AS WELL AS REMOVAL OF EROSION AND SEDIMENT CONTROL DEVICES AFTER THE NOTICE OF TERMINATION. MAINTENANCE, AND REPAIR REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION SHALL BE INCLUDED IN THE PROJECT COST
9. TOXIC SUBSTANCES SHALL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE TO THE EPA'S STANDARD PRACTICES
10. POLLUTION CONTROL MEASURES SHALL BE INSPECTED DAILY BY THE CONTRACTOR. WRITTEN DOCUMENTATION OF INSPECTIONS SHALL BE WRITTEN EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF A RAIN EVENT OF 0.5 INCHES OR GREATER
11. THE CONTRACTOR SHALL PROVIDE THE CITY OF OCALA WITH AN EROSION CONTROL PLAN THAT WILL INCLUDE SPILL REPORTING AND RESPONSE. IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT THE ENGINEER OF RECORD



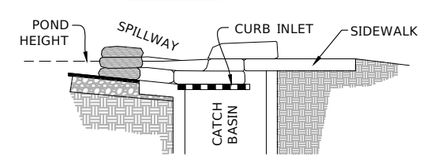
TYPICAL SILT FENCE DETAILS



PLAN VIEW



PLAN VIEW



SECTION A-A

PROCEDURE NOTES

1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEDIMENTS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF
2. SANDBAGS, OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY
3. LEAVE ONE SANDBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY FOR OVERFLOW
4. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY

CURB AND GUTTER SEDIMENT BARRIER

1. PLACE GRAVEL FILLED BURLAP BAGS ON GENTLY SLOPING STREET SEGMENTS ACCORDING TO THE SPACING CHART (SEE PLATE 4.08p)
2. PLACE TWO OR MORE BAGS AT EACH INTERVAL IN A MANNER WHICH PROVIDES MAXIMUM SUPPORT
3. WHEN STACKING SEVERAL BAGS HIGH, LEAVE A ONE BAG GAP TO PROVIDE AN OVERFLOW SPILLWAY
4. SEDIMENTS MUST BE REMOVED AFTER EACH RAIN EVENT

MAINTENANCE

1. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIR MADE AS NEEDED
2. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS TO $\frac{1}{2}$ OF THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE
3. STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED

CURB INLET SEDIMENT BARRIER

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
NOEL JOHN COOPER, P.E.
P.E. LICENSE NUMBER: 69534
STATE OF FLORIDA, DATED: / / .
VALID ONLY WITH EMBOSSED SEAL

PREPARED BY
OCALA City Engineer's Office

PROJECT No. 22602
PROJECT NAME: SW 44TH AVENUE - SW 20TH STREET SIGNALIZATION

ENVIROMENTAL NOTES

SHEET No. T05

ABBREVIATIONS & SYMBOLOGY

	COED	CITY OF OCALA ENGINEERING DEPARTMENT
	CB	CATCH BASIN
	CONST	CONSTRUCT / INSTALL
	CLF	CHAIN LINK FENCE
	CNL	CONTROL
	Cr	CURB RAMP
	C.R.	COUNTY ROAD
	DRA	DRY RETENTION AREA
	EXIST	EXISTING
	FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
or	FH	FIRE HYDRANT
	GA	GUY ANCHOR
	GV	NATURAL GAS VALVE
	LP	LAMP POLE
	Lt	LEFT
	MB	MAILBOX OR NEWSPAPER BOX
	MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
ELEC		METER ELECTRIC
GAS		METER GAS
WTR		METER WATER
	MES	MITERED END SECTION
	NO.	NUMBER
	PED	PEDESTRIAN / PEDESTAL
or	PP	POWER POLE
	PROP	PROPOSED
	QTY	QUANTITY
	Rt	RIGHT
	ROW	RIGHT-OF-WAY
	CO	SANITARY CLEANOUT
	SAN	SANITARY MANHOLE
		SIGN
	SOL	SOLID
	SPI	STANDARD PLANS INDEX (NUMBER)
	STM MH	STORM MANHOLE
	St	STREET
	STS	PROPOSED DRAINAGE (STORMWATER) STRUCTURE
	TEL	TELEPHONE MANHOLE
or		TELEPHONE PEDESTAL / RISER
	TYP	TYPICAL
	WD	WOOD
	WV	WATER VALVE
	WRA	WET RETENTION AREA
	X-WALK	CROSS WALK
		PALM TREE
		OAK TREE
		OTHER TREE (NOT ALL INCLUSIVE)
EDS-(00)		STORM STRUCTURE IDENTITY

TYPICAL LINETYPE LEGEND

TOPOGRAPHICAL

- TOPOGRAPHIC PROPERTY BOUNDARY/LIMITS
- TOPOGRAPHIC RIGHT-OF-WAY LINE
- TOPOGRAPHIC CENTERLINE OF RIGHT-OF-WAY
- TOPOGRAPHIC PARCEL LINE
- TOPOGRAPHIC SECTION LINE
- TOPO SURFACE CONTOUR: 5' INTERVAL
- TOPO SURFACE CONTOUR: 1' INTERVAL
- TOPO TOP OF BANK / TOE OF SLOPE
- TOPO PAVEMENT: CENTERLINE / CROWN
- TOPO PAVEMENT: GRADE BREAK
- TOPO P'MENT: INVERTED CROWN / FLOWLINE
- F — TOPOGRAPHIC FLOOD ZONE LIMITS

THE ABOVE LINE-TYPES HAVE BEEN EXTRACTED FROM
OCALA CITY ENGINEER'S OFFICE - SURVEY DIVISION

EXISTING CONDITIONS

- EDGE OF EXISTING CURB
- EDGE OF EXISTING SIDEWALK
- EDGE OF EXISTING PAVEMENT
- EDGE OF EXISTING DRIVEWAY (ALL TYPES)
- EXISTING FENCE (TYPE LABELED)
- OE — EXISTING OVERHEAD POWER
- W — EXISTING POTABLE WATER
- EXISTING DRAINAGE (w FLOW DIRECTION)
- SS — EXISTING GRAVITY SANITARY SEWER
- FM — EXISTING FORCE MAIN SANITARY SEWER
- STS — EXISTING STORM WATER SEWER
- G — EXISTING NATURAL GAS
- BE — EXISTING BURIED ELECTRIC POWER
- BFO — EXISTING FIBER OPTIC COMMUNICATION
- EXISTING STRIPING TO BE RETAINED

PROPOSED

- EDGE OF PROPOSED CURB
- EDGE OF PROPOSED SIDEWALK
- EDGE OF PROPOSED PAVEMENT
- EDGE OF PROPOSED DRIVEWAY (ALL TYPES)
- PROPOSED FENCE (TYPE LABELED)
- EROSION CONTROL - SILT FENCE
- W — PROPOSED POTABLE WATER
- PROPOSED DRAINAGE (w FLOW DIRECTION)
- SS — PROPOSED GRAVITY SANITARY SEWER
- FM — PROPOSED FORCE MAIN SANITARY SEWER
- STS — PROPOSED STORM WATER SEWER
- G — PROPOSED NATURAL GAS
- BE — PROPOSED BURIED ELECTRIC POWER
- BFOC — PROPOSED FIBER OPTIC COMMUNICATION
- PROPOSED STRIPING
- PROPOSED NOISE WALL

SURVEY / TOPO ABBREVIATIONS

	BOS	BACK OF SIDEWALK
	CIRC	CIRCULAR IRON ROD CONTROL
	CM	CONCRETE MONUMENT
	CP	CONTROL POINT
	CMP	CORRUGATED METAL PIPE
		DESCRIPTIVE POINT
	ERCP	ELLIPTICAL REINFORCED CONCRETE PIPE
	ES	EXISTING DRAINAGE STRUCTURE
	MTL	METAL
	PC	POINT OF CURVATURE
	PCC	POINT OF COMPOUND CURVE
	PGL	PROFILE GRADE LINE
	PRC	POINT OF REVERSE CURVE
	PT	POINT OF TANGENCY
	TBM	TEMPORARY BENCH MARK
	TOB	TOP OF BANK
	TOE	TOE OF SLOPE
	TRAV PT	TRAVERSE POINT

FOR A COMPLETE LISTING OF TYPICAL ABBREVIATIONS,
REFER TO FDOT STANDARD PLANS LOCATED AT
www.fdot.gov/design/standardplans/current/

TYPICAL HATCH PATTERN LEGEND

TYPICAL MATERIAL TYPE HATCH PATTERNS WITHIN THE ROADWAY PLAN SHEETS ARE DEFINED AS FOLLOWS:

- MILL AND RESURFACE EXISTING ASPHALT PAVEMENT PER FDOT DESIGN SPECIFICATIONS
- PROPOSED 4" CONCRETE (MIN. 3,000 PSI) (BID ALTERNATE)
- PROPOSED ASPHALT PAVEMENT AND LIMEROCK BASE PER TYPICAL FDOT DESIGN SPECIFICATIONS
- HOT MIX RECLAIM EXISTING ASPHALT AND LIMEROCK. ADD ASPHALT PAVEMENT FDOT DESIGN SPECIFICATIONS
- PROPOSED 6" CONCRETE WITH FIBER MESH REINFORCEMENT (MIN 3,000 PSI)
- PROPOSED TYPE IV, OPTION 1, CONCRETE SEPARATOR
- HOT MIX RECLAIM EXISTING LIMEROCK BASE. ADD ASPHALT AND LIMEROCK AS NEEDED PER FDOT DESIGN SPECIFICATIONS
- PROPOSED 6" THICK FIBER RE-ENFORCED CONCRETE DRIVEWAY (MIN. 3,000 PSI)
- PROPOSED ASPHALT MEDIAN OPENING/ROADWAY STUB. REGULAR 10" BASE, OMIT 1" FRICTION COURSE
- DETECTABLE WARNING SURFACE (RED BRICK COLOR WHERE APPLICABLE)
- PROPOSED COMMERCIAL ASPHALT DRIVEWAY
- TYPICAL GRASS MEDIAN w ARGENTINE BAHIA

REFER TO CITY OF OCALA
'STANDARD SPECIFICATIONS FOR CONSTRUCTION OF STREETS, STORMWATER, TRAFFIC, WATER AND SEWER INFRASTRUCTURE'
PUBLISHED BY THE OFFICE OF CITY ENGINEER - January 11, 2024

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
NOEL JOHN COOPER, P.E.
P.E. LICENSE NUMBER: 69534
STATE OF FLORIDA, DATED: / / .
VALID ONLY WITH EMBOSSED SEAL

PREPARED BY
OCALA City Engineer's Office

PROJECT No. 22602
PROJECT NAME: SW 44TH AVENUE - SW 20TH STREET SIGNALIZATION

ABBREVIATIONS AND LEGENDS

SHEET No.
T06

PAY ITEM LISTING:

NOTE: ALL TRAFFIC EQUIPMENT MUST BE ON THE FDOT "APPROVED PRODUCT LIST" (APL), AND MUST BE APPROVED BY THE CITY of OCALA PRIOR TO PROCUREMENT.

PAY ITEM No G-05
INCLUDES ONE VARIABLE MESSAGE SIGN FOR EACH APPROACH (A TOTAL OF FOUR (4) APPROACHES) FOR A TOTAL OF TWENTY (20) DAYS EACH (FOURTEEN (14) DAYS PRIOR TO FULL OPERATION AND SIX (6) DAYS AFTER FULL OPERATION), TO READ "CAUTION CAUTION CAUTION" ON PANEL ONE AND "NEW SIGNAL AHEAD" ON PANEL TWO. INCLUDES STRIPING AND RPM's NECESSARY FOR MAINTENANCE OF TRAFFIC APPLICATIONS. INCLUDES SIGNS, CHANNELING DEVICES, AND TEMPORARY SIDEWALK CONSTRUCTION NECESSARY TO IMPLEMENT PEDESTRIAN MAINTENANCE OF TRAFFIC AT THE INTERSECTION.

PAY ITEM No 630-2-11 and 630-2-12
CONDUIT SHALL BE 2" SCHD 40 PVC INSTALLED AT A 36" MIN DEPTH. ENSURE THAT THE CONDUIT IS TERMINATED INSIDE OF THE PROPOSED CONTROLLER CABINET.

PAY ITEM No 635-2-11 and 635-2-12
PULL BOXES AND COVERS SHALL BE NON-METALLIC CONSTRUCTION WITH RECESSED COVER LOGO "TRAFFIC SIGNAL" OR "FIBER OPTIC" AS APPROPRIATE.

PAY ITEM No 634-5-1
THE CONTRACTOR SHALL INSTALL NON-CONDUCTIVE INSULATORS WHERE CATENARY AND MESSENGER WIRES CROSS OVERHEAD POWER CONDUCTORS. THE CONTRACTOR SHALL COORDINATE WITH OCALA ELECTRIC UTILITY PRIOR TO PROCUREMENT OF MATERIALS TO CONFIRM REQUIREMENTS FOR CROSSING OF THE ELECTRIC LINES.

PAY ITEM No 639-1-122
SHALL INCLUDE ALL FEES AND DEPOSITS REQUIRED BY THE ELECTRIC POWER COMPANY FOR ENERGIZING THE POWER SERVICE. THE CONTRACTOR SHALL VERIFY THE POWER SERVICE REQUIREMENT WITH THE CITY OF OCALA AND THE ELECTRIC POWER COMPANY PRIOR TO BIDDING THE PROJECT. AN ELECTRICAL SERVICE RISER AT THE POWER POLE INDICATED AS POWER SOURCE SHALL BE INCLUDED.

PAY ITEM No 641-2-30
SHALL INCLUDE ALL LABOR AND EQUIPMENT TO INSTALL TYPE P-VIII PRESTRESSED CONCRETE POLES TO BE FURNISHED BY THE CITY OF OCALA. SHALL INCLUDE TRANSPORT BY THE CONTRACTOR OF THE FURNISHED POLES TO THE CONSTRUCTION SITE.

PAY ITEM No's 650-1-24, and 650-1-26
SHALL BE DIALIGHT BRAND XLF OF XOD SERIES WITH TINTED LENSES OR LATER, AND CONFORM TO MUTCD AND SECTION 650 OF THE FDOT STANDARD SPECIFICATIONS. AND SHALL INCLUDE INSTALLATION OF RETRO-REFLECTIVE BACKPLATES. VEHICULAR SIGNAL DISPLAYS SHALL BE FLAT BLACK IN COLOR.

PAY ITEM No 653-1-11
PEDESTRIAN SIGNAL ASSEMBLY SHALL BE CAST ALUMINUM HOUSING WITH DIALIGHT BRAND "WALKING PERSON" AND "HAND" ICON PEDESTRIAN SIGNAL COUNTDOWN MODULES IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD, SECTION 653 OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION,) AND THE INSTITUTE OF TRANSPORTATION ENGINEERS (ITE) PEDESTRIAN TRAFFIC CONTROL SIGNAL INDICATIONS - PART 2: LIGHT EMITTING DIODE (LED) PEDESTRIAN SIGNAL MODULES.

PAY ITEM No 660-6-121 and 660-6-122
TRAVEL TIME READER SHALL BE ITERIS BLUETOAD SPECTRA RSU-CV2X SYSTEM WITH SHORT ANTENNAE KIT, COMPATIBLE WITH THE CITY'S EXISTING TRAVEL TIME READER SOFTWARE.

PAY ITEM No 665-1-11
SHALL BE POLARA BDL3 SERIES PIEZO PUSH BUTTON. CONTRACTOR SHALL CONFIRM THAT A 4'x4' FLAT LANDING AREA IS PRESENT ADJACENT TO THE DETECTOR.

PAY ITEM No 670-5-300
SHALL INCLUDE ALL LABOR AND EQUIPMENT TO INSTALL TRAFFIC CONTROLLER ASSEMBLY WITH THE CABINET TO BE FURNISHED BY THE CITY OF OCALA. SHALL INCLUDE CONSTRUCTION OF THE CONCRETE BASE AND ALL ITEMS REQUIRED FOR INSTALLATION SPECIFIED IN THE CITY OF OCALA STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 34 41 13.

PAY ITEM No 682-1-113
ITS CCTV CAMERA SYSTEM SHALL BE AXIS Q6315-LE PTZ DOME CCTV CAMERA COMPATIBLE WITH THE CITY'S EXISTING VIDEO WALL DISPLAY SOFTWARE. CONTACT PUBLIC WORKS TRAFFIC DIVISION AT 352-351-6733 FOR CURRENT APPROVED MANUFACTURER. CAMERAS SHALL BE INSTALLED USING A J-PIPE POLE AFFIXED TO THE STRAIN POLE

PAY ITEM No 684-1-1
SHALL BE ALCATEL OS 6465 SERIES, FL. APL #634-00-040 WITH FIBER AND ETHERNET CONNECTION CABLE PANEL.

PAY ITEM No 685-1-13
SHALL CONSIST OF AN ALPHA TECHNOLOGIES FXM HP1100 UNINTERRUPTED POWER SUPPLY (UPS) WITH AN ALPHA TECHNOLOGIES SE48-2216 BBS ENCLOSURE WITH UATS,RM FOR FXM-1100/2000, 5 FT, BCK, AG, LAMP, LRI, SLIDE OUT BATTERY TRAYS, NAT. AI NO GENERATOR COMPARTMENT AND FOUR (4) ALPHA-CELL 100 XTV 12-VOLT BATTERIES COMPATIBLE WITH THE CITY'S EXISTING UPS/BBS SOFTWARE.

PAY ITEM No 700-5-22
LED STREET NAME SIGNS SHALL BE POWERED FROM A BREAKER LOCATED IN THE ELECTRICAL SIGNAL SERVICE DISCONNECT AND THE PHOTO CELL SHALL ALSO BE INSTALLED ON THE OUTSIDE OF THE ELECTRICAL SIGNAL SERVICE DISCONNECT. SHALL BE TRANSPORTATION CONTROL SYSTEMS FREE-SWINGING DUAL FACE LED BRITELITE TCSSIGNBL SERIES.

PAY ITEM No G-105
INCLUDES ALL LABOR AND EQUIPMENT TO REMOVE ALL CONFLICTING PAVEMENT MARKINGS WITHIN THE PROJECT AREA. MEANS AND METHODS SHALL BE APPROVED BY THE CITY AND FDOT PRIOR TO WORK AS TO ENSURE MINIMUM DAMAGE TO THE EXISTING ASPHALT SURFACE.

SUMMARY OF GENERAL ROADWAY

ITEM No	DESCRIPTION	UNITS	QTY
G-01	MOBILIZATION	LS	1
G-02	MAINTENANCE AND GUARANTEE BOND	LS	1
G-05	MAINTENANCE OF TRAFFIC	LS	1
G-09	CLEARING AND GRUBBING, LIGHT	SY	400
G-11	GENERAL EXCAVATION (NE & NW BERM)	CY	8
G-15	FINISH GRADING	SY	400
G-21	REMOVAL OF EXISTING CONCRETE (SIDEWALK, F-C&G)	SY	230
G-53	AS-BUILT PLANS AND CONSTRUCTION LAYOUT SURVEY	LS	1
G-56	CONCRETE CURB & GUTTER, TYPE F	LF	115
G-61	CONCRETE CURB RAMP, 6" (CR-C) with DETECTABLE WARNING SURFACE	EA	4
G-62	DETECTABLE WARNING	SF	70
G-78	REMOVE & REPLACE 6' CHAIN LINK FENCE (SE Corner)	LF	36
~~400-2-11~~	~~8" MASONRY RETAINING WALL (25.5 LF x 2' H + 33 LF x 3' H)~~	CY	0

SUMMARY OF SIGNALIZATION

ITEM No	DESCRIPTION	UNITS	QTY
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	910
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	345
632-7-1	SIGNAL CABLE - NEW OR RECONSTRUCTED INTERSECTION, F&I	PI	1
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA	1
633-3-16	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, PATCH PANEL - FIELD TERMINATED	EA	2
633-6	FIBER OPTIC CABLE LOCATOR	LS	1
634-4-153	SPAN WIRE ASSEMBLY, FURNISH AND INSTALL, TWO POINT, BOX	PI	1
634-5-1	FIBERGLASS INSULATOR, FURNISH & INSTALL (6 LF @ EACH XING CABLE)	LF	48
635-2-11	PULL & SPLICE BOX; FURNISH & INSTALL; 13"x24"	EA	18
635-2-12	PULL & SPLICE BOX; FURNISH & INSTALL; 26"x36"	EA	6
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR FROM POWER COMPANY	AS	1
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	25
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	1
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II, SERVICE POLE	EA	1
641-2-30	PRESTRESSED CONCRETE POLE, INSTALL *(City Furnished)*	EA	4
650-1-24	VEHICULAR TRAFFIC SIGNAL, F&I, POLYCARBONATE, 3-SECTION, 1 WAY, LIGHTWEIGHT 650-1-24, CAST TOP	AS	8
653-1-26	VEHICULAR TRAFFIC SIGNAL, F&I, POLYCARBONATE, 4-SECTION, 1 WAY, LIGHTWEIGHT 650-1-26, CAST TOP	AS	4
653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	8
660-1-102	LOOP ASSEMBLY, FURNISH AND INSTALL, TYPE B *(on SW 20th ST for PH2 and PH6)*	AS	8
660-2-106	LOOP ASSEMBLY, FURNISH AND INSTALL, TYPE F	AS	8
660-1-110	LOOP DETECTOR INDUCTIVE, FURNISH AND INSTALL, LEAD-IN	LF	280
660-6-121	VEHICULAR DETECTION SYSTEM - AVI, BLUETOOTH, F&I, CABINET EQUIPMENT	EA	1
660-6-122	VEHICULAR DETECTION SYSTEM - AVI, BLUETOOTH, F&I, ABOVE GROUND EQUIPMENT	EA	1
665-1-11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA	8
670-5-300	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION	EA	1
682-1-113	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION	EA	1
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	1
684-1-10	MANAGED FIELD ETHERNET SWITCH, LAYER 3, FURNISH & INSTALL	EA	1
685-1-13	UNINTERRUPTABLE POWER SUPPLY, F&I, LINE INTERACTABLE	EA	1
685-2-1	REMOTE POWER MANAGEMENT UNIT, FURNISH & INSTALL	EA	1
700-3-201	SIGN PANEL, FURNISH & INSTALL, OVERHEAD MOUNT [flashing left turn], UP TO 12 SF	EA	4
700-5-22	INTERNALLY ILLUMINATED [Street] SIGN, F&I, OVERHEAD MOUNT, 12 - 18 SF	EA	4

SUMMARY OF TRAFFIC CONTROL

ITEM No	DESCRIPTION	UNITS	QTY
G-89	SINGLE COLUMN TRAFFIC GROUND SIGN ASSEMBLY REMOVAL AND RELOCATION	AS	1
G-90	SINGLE COLUMN TRAFFIC GROUND SIGN ASSEMBLY REMOVAL	AS	10
G-91	RAISED REFLECTIVE PAVEMENT MARKERS WITH ADHESIVE	EA	82
G-92-1	TEMPORARY STRIPING (TRAFFIC STRIPES AND MARKINGS, STANDARD, WHITE, SOLID, 6" STRIPE)	LF	140
G-92-2	TEMPORARY STRIPING (TRAFFIC STRIPES AND MARKINGS, STANDARD, WHITE, SOLID, 12" STRIPE)	LF	180
G-92-3	TEMPORARY STRIPING (TRAFFIC STRIPES AND MARKINGS, STANDARD, WHITE, SOLID, 24" STRIPE)	LF	180
G-92-5	TEMPORARY STRIPING (SOLID 6" SKIP STRIPES 6' x 10' OR 2' x 4' WHITE (Gross)	LF	80
G-93-1	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6" LANES/OUTSIDE SHOULDER	LF	1,780
G-93-2	THERMOPLASTIC STRIPING, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK	LF	680
G-93-3	THERMOPLASTIC STRIPING, STANDARD, WHITE, SOLID, 24" FOR STOP LINE	LF	180
G-93-5	THERMOPLASTIC STRIPING, STANDARD, WHITE, 6-10 GAP EXTENSION, 6"	LF	300
G-93-6	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6" INSIDE SHOULDER/MISC	LF	2,470
G-93-7	THERMOPLASTIC STRIPING, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL	LF	12
G-93-9	THERMOPLASTIC STRIPING, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	480
G-94-4	THERMOPLASTIC PAVEMENT MARKING, STANDARD, WHITE, ARROWS	EA	20
G-105	REMOVE STRIPING/ARROW/MESSAGE (SURFACE GRIND)	SF	6,010

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
05/08/25	SEPARATE RETAINING WALL CONSTRUCTION "BY OTHERS"		

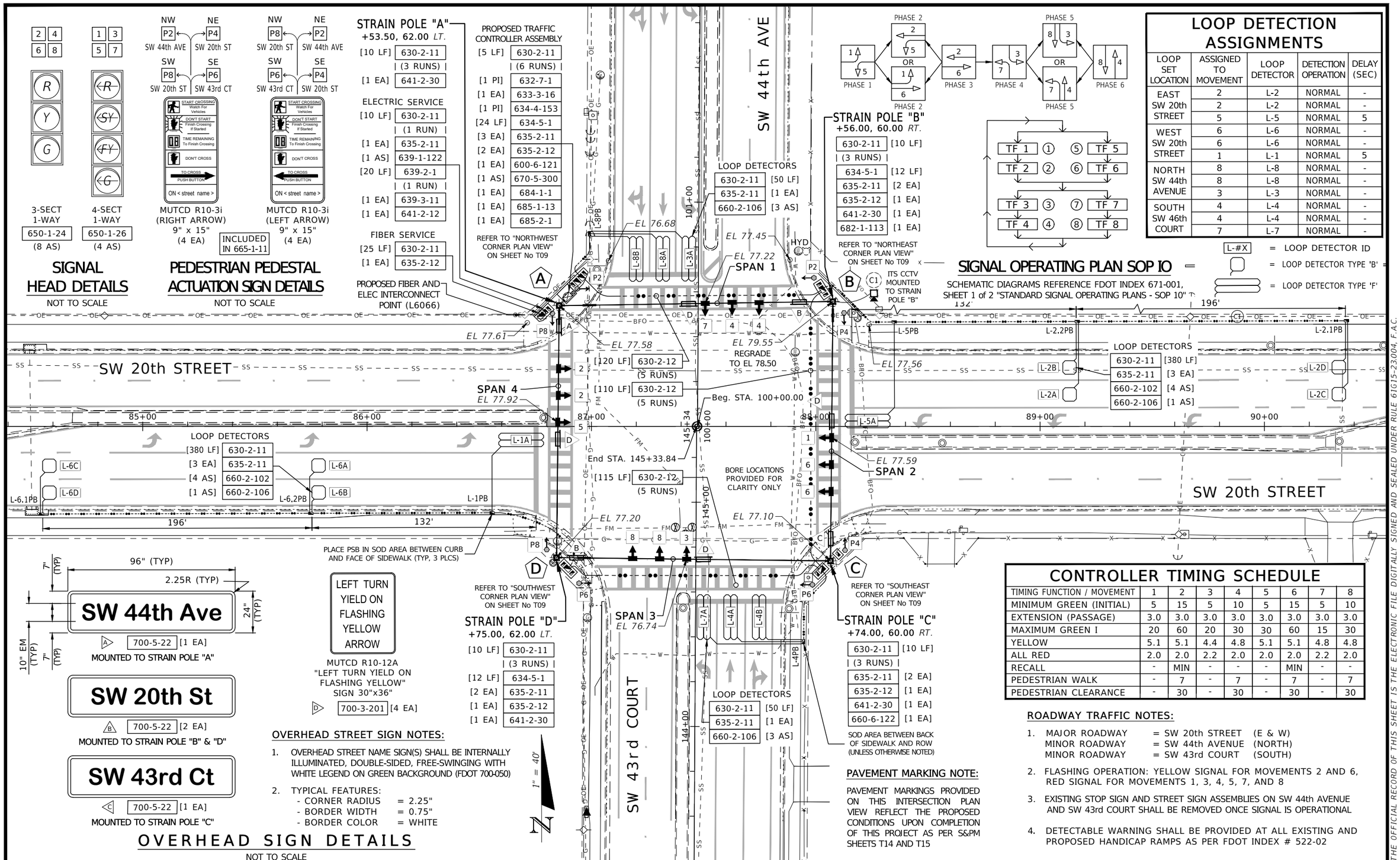
ENGINEER OF RECORD
NOEL JOHN COOPER, P.E.
P.E. LICENSE NUMBER: 69534
STATE OF FLORIDA, DATED: / / .
VALID ONLY WITH EMBOSSED SEAL

PREPARED BY
OCALA City Engineer's Office

PROJECT No. 22602
PROJECT NAME: SW 44TH AVENUE - SW 20TH STREET SIGNALIZATION

STRAIN POLE PAY ITEM LISTING AND QUANTITIES

SHEET No. T07



LOOP DETECTION ASSIGNMENTS

LOOP SET LOCATION	ASSIGNED TO MOVEMENT	LOOP DETECTOR	DETECTION OPERATION	DELAY (SEC)
EAST SW 20th STREET	2	L-2	NORMAL	-
	2	L-2	NORMAL	-
	5	L-5	NORMAL	5
WEST SW 20th STREET	6	L-6	NORMAL	-
	6	L-6	NORMAL	-
	1	L-1	NORMAL	5
NORTH SW 44th AVENUE	8	L-8	NORMAL	-
	8	L-8	NORMAL	-
	3	L-3	NORMAL	-
SOUTH SW 46th COURT	4	L-4	NORMAL	-
	4	L-4	NORMAL	-
	7	L-7	NORMAL	-

CONTROLLER TIMING SCHEDULE

TIMING FUNCTION / MOVEMENT	1	2	3	4	5	6	7	8
MINIMUM GREEN (INITIAL)	5	15	5	10	5	15	5	10
EXTENSION (PASSAGE)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
MAXIMUM GREEN I	20	60	20	30	30	60	15	30
YELLOW	5.1	5.1	4.4	4.8	5.1	5.1	4.8	4.8
ALL RED	2.0	2.0	2.2	2.0	2.0	2.0	2.2	2.0
RECALL	-	MIN	-	-	-	MIN	-	-
PEDESTRIAN WALK	-	7	-	7	-	7	-	7
PEDESTRIAN CLEARANCE	-	30	-	30	-	30	-	30

ROADWAY TRAFFIC NOTES:

1. MAJOR ROADWAY = SW 20th STREET (E & W)
   MINOR ROADWAY = SW 44th AVENUE (NORTH)
   MINOR ROADWAY = SW 43rd COURT (SOUTH)
2. FLASHING OPERATION: YELLOW SIGNAL FOR MOVEMENTS 2 AND 6, RED SIGNAL FOR MOVEMENTS 1, 3, 4, 5, 7, AND 8
3. EXISTING STOP SIGN AND STREET SIGN ASSEMBLIES ON SW 44th AVENUE AND SW 43rd COURT SHALL BE REMOVED ONCE SIGNAL IS OPERATIONAL
4. DETECTABLE WARNING SHALL BE PROVIDED AT ALL EXISTING AND PROPOSED HANDICAP RAMPS AS PER FDOT INDEX # 522-02

OVERHEAD STREET SIGN NOTES:

1. OVERHEAD STREET NAME SIGN(S) SHALL BE INTERNALLY ILLUMINATED, DOUBLE-SIDED, FREE-SWINGING WITH WHITE LEGEND ON GREEN BACKGROUND (FDOT 700-050)
2. TYPICAL FEATURES:
   - CORNER RADIUS = 2.25"
   - BORDER WIDTH = 0.75"
   - BORDER COLOR = WHITE

PAVEMENT MARKING NOTE:

PAVEMENT MARKINGS PROVIDED ON THIS INTERSECTION PLAN VIEW REFLECT THE PROPOSED CONDITIONS UPON COMPLETION OF THIS PROJECT AS PER S&PM SHEETS T14 AND T15

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REVISIONS			
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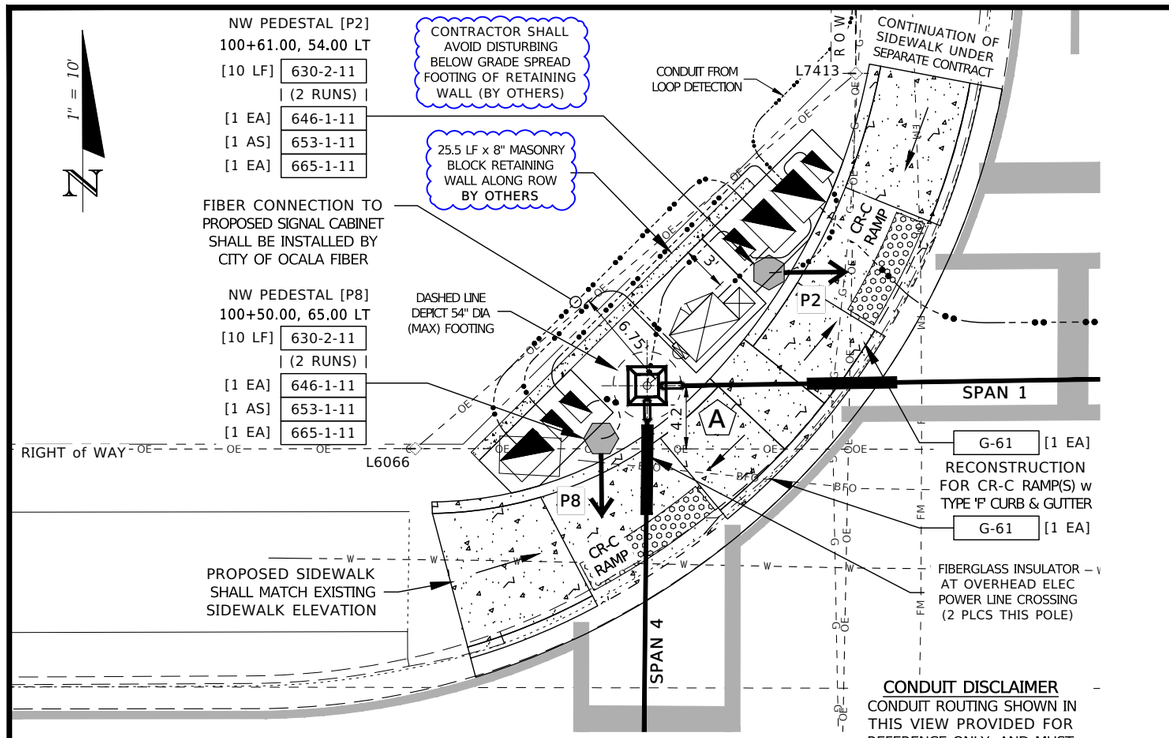
NOEL JOHN COOPER, P.E.
P.E. LICENSE NUMBER: 69534
STATE OF FLORIDA, DATED: / / .
VALID ONLY WITH EMBOSSED SEAL

PREPARED BY
OCALA City Engineer's Office

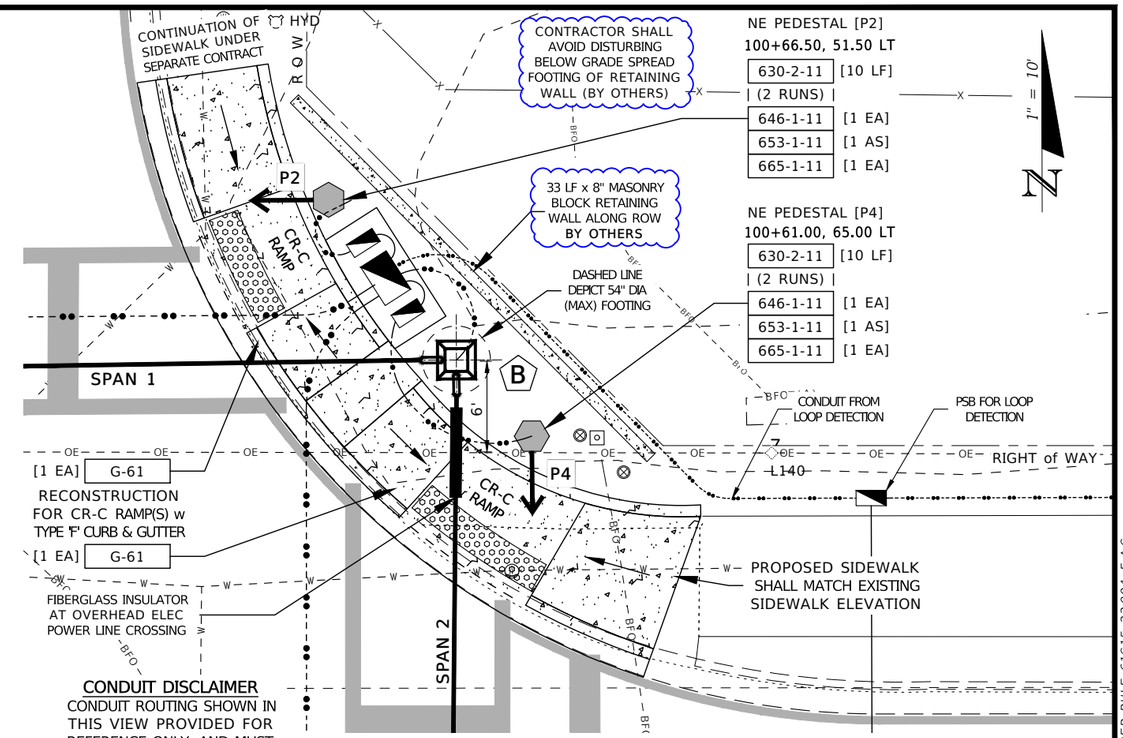
PROJECT No. 22602
PROJECT NAME: SW 44TH AVENUE – SW 20TH STREET SIGNALIZATION

STRAIN POLE SIGNALIZATION PLAN, DETAILS, AND SCHEDULES

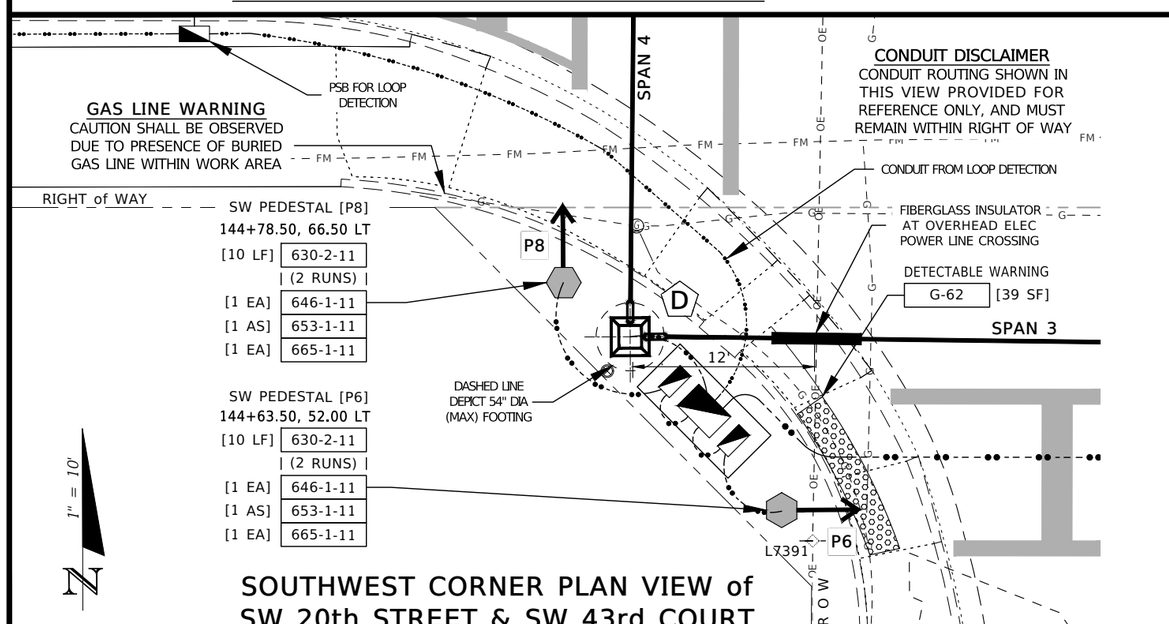
SHEET No. T08



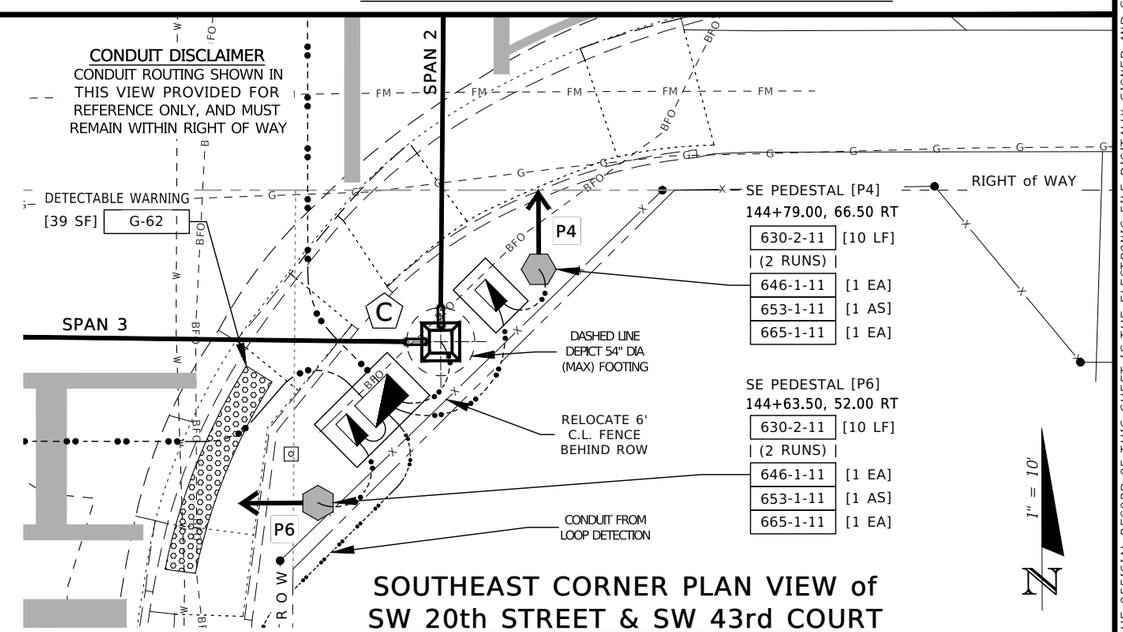
NORTHWEST CORNER PLAN VIEW of SW 20th STREET & SW 44th AVENUE



NORTHEAST CORNER PLAN VIEW of SW 20th STREET & SW 44th AVENUE



SOUTHWEST CORNER PLAN VIEW of SW 20th STREET & SW 43rd COURT



SOUTHEAST CORNER PLAN VIEW of SW 20th STREET & SW 43rd COURT

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
05/08/25	SEPARATE RETAINING WALL CONSTRUCTION "BY OTHERS"		

ENGINEER OF RECORD

NOEL JOHN COOPER, P.E.
P.E. LICENSE NUMBER: 69534
STATE OF FLORIDA, DATED: / / .
VALID ONLY WITH EMBOSSED SEAL

PREPARED BY

OCALA City Engineer's Office

PROJECT No. 22602

PROJECT NAME: SW 44TH AVENUE - SW 20TH STREET SIGNALIZATION

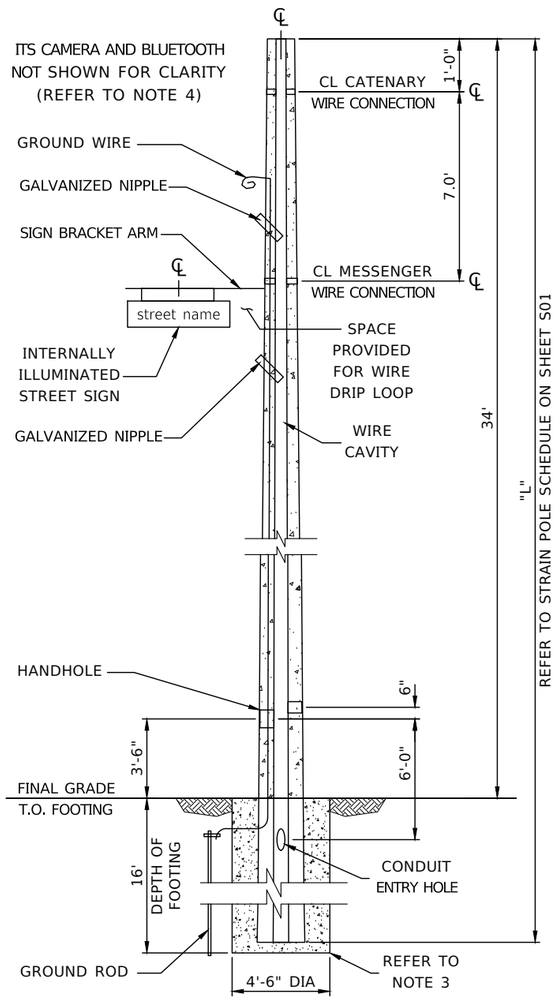
STRAIN POLE PEDESTRIAN SIGNAL PLAN VIEW DETAILS

SHEET No. T09

Michael Romaine 5/8/2025 T:_sd-ENG-Transportation\Projects\2022\600 TRAFFIC\22602 - SIGNALIZATION (SP) at SW 44th Ave and SW 20th St\02260211103\Signalization\PLANSG01 (SP) - Rev 01.dwg

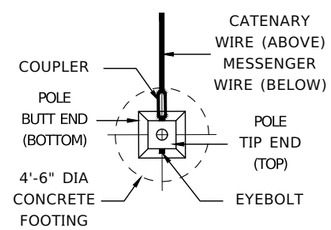
GENERAL STRAIN POLE NOTES:

1. THIS DESIGN IS FOR SPAN WIRE ASSEMBLY WITH TWO (2) POINT ATTACHMENTS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE FY 2024-25 EDITION OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
2. THE CONTRACTOR SHALL COORDINATE WITH OCALA TRAFFIC SYSTEMS MANAGER TO VERIFY ITS J-PIPE AND BLUETOOTH EQUIPMENT LOCATION
3. PRESTRESSED CONCRETE STRAIN POLES SHALL BE CONSTRUCTED WITH A CONCRETE FOOTING AS PER SECTION 641-4.2 OF THE FY 2024-25 EDITION OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
4. WORK THIS SHEET WITH FDOT FY 2024-25 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, WITH APPLICABLE DESIGN STANDARD MODIFICATIONS. REFER TO INDEX:
   - 641-010 FOR "CONCRETE POLES",
   - 631-001 FOR "SIGN CABLE AND SPAN WIRE INSTALLATION DETAILS",
   - 700-050 FOR "FREE SWINGING, INTERNALLY ILLUMINATED STREET SIGN"



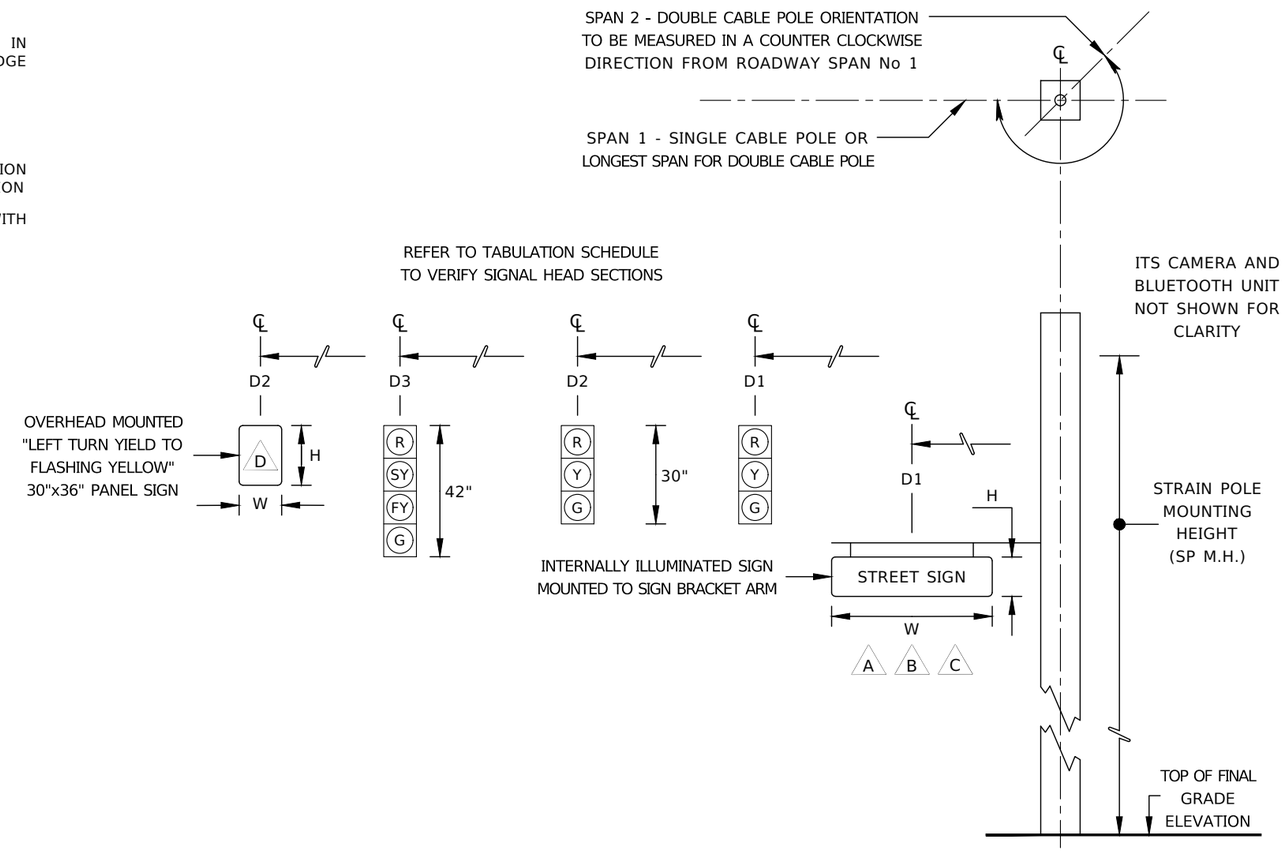
PRESTRESSED CONCRETE STRAIN POLE TYPE P-VIII SECTION VIEW

NOT TO SCALE



PRESTRESSED CONCRETE STRAIN POLE PLAN VIEW

NOT TO SCALE



TEMPLATE STRAIN POLE SIGNAL HEAD & SIGNAGE CONFIGURATION

NOT TO SCALE

SPAN TABULATION SCHEDULE

STRAIN POLE ID	SPAN ID	SPAN LENGTH (ft)	BACK PLATES (Y/N)	SIGNAL DATA DISTANCE FROM POLE (D#) / NUMBER OF SECTION(S)							SIGN DATA DISTANCE FROM POLE (D#) / HEIGHT (H) / WIDTH (W)									
				POLE	D1 (ft)	S	D2 (ft)	S	D3 (ft)	S	ID	D1 (ft)	H	W	ID	D2 (ft)	H	W	ID	D3 (ft)
A B	1	118'	Y	B	28'	3	40'	3	52'	4	B	00'	2'	8'	D	57'	3'	2.5'	ITS	00'
B C	2	115'	Y	C	31'	3	43'	3	55'	4	C	00'	2'	8'	D	60'	3'	2.5'	n/a	n/a
C D	3	122'	Y	B	34'	3	46'	3	58'	4	B	00'	2'	8'	D	63'	3'	2.5'	n/a	n/a
D A	4	114'	Y	A	29'	3	41'	3	53'	4	A	00'	2'	8'	D	58'	3'	2.5'	n/a	n/a

REFER TO "OVERHEAD SIGN DETAILS" ON SHEET T08 FOR POLE MOUNTED STREET SIGN(S)

REFER TO "OVERHEAD SIGN DETAILS" ON SHEET T08 FOR STRAIN WIRE MOUNTED PANEL SIGN(S)

ITS CCTV DETECTION CAMERA MOUNTED ON EXTENSION ARM ATTACHED TO POLE

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
05/08/25	SEPARATE RETAINING WALL CONSTRUCTION "BY OTHERS"		

ENGINEER OF RECORD

NOEL JOHN COOPER, P.E.
P.E. LICENSE NUMBER: 69534
STATE OF FLORIDA, DATED: / / .
VALID ONLY WITH EMBOSSED SEAL

PREPARED BY

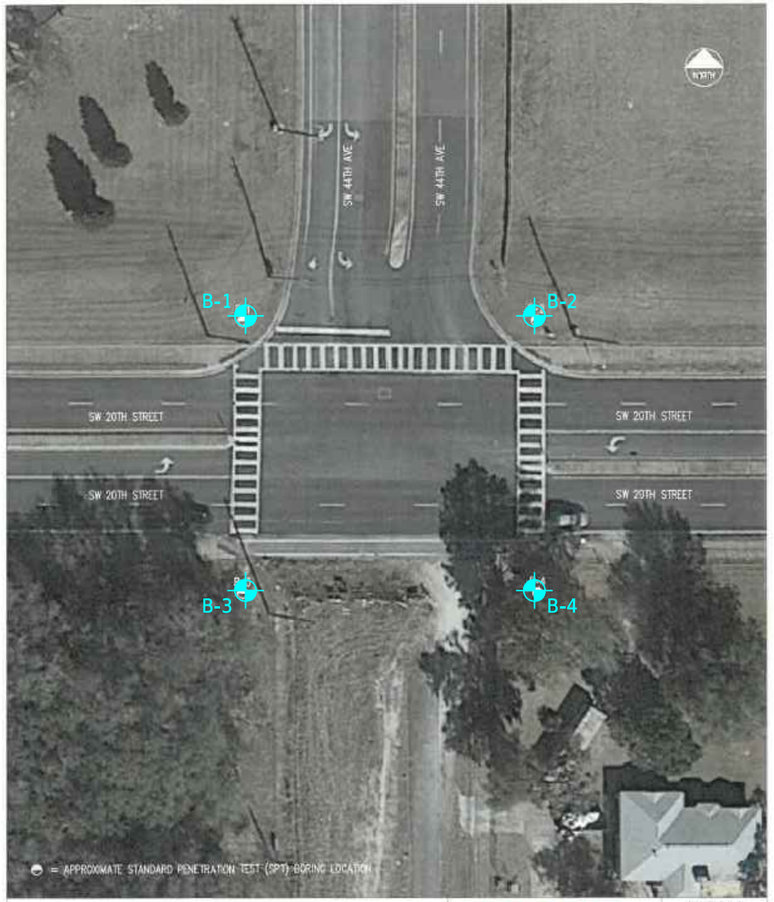
OCALA City Engineer's Office

PROJECT No. 22602

PROJECT NAME: SW 44TH AVENUE - SW 20TH STREET SIGNALIZATION

STRAIN POLE TABULATION AND SPECIFICATIONS

SHEET No. T10



CITY OF OCALA ENGINEERING DEPARTMENT
PROPOSED TRAFFIC SIGNAL MAST ARMS
SW 44TH AVENUE AND SW 20TH STREET
OCALA, FLORIDA

BORING LOCATION MAP

GEO-TECH, INC.
GEOTECHNICAL ENVIRONMENTAL
CONSTRUCTION MATERIALS TESTING GEOPHYSICAL EXPLORATION
1016 SE 3rd AVENUE, OCALA, FLORIDA 34471 ~ (352) 694-7711

PROJECT NO.	21-3006.193.1
SCALE:	N.T.S.
DATE:	12-30-21
FIGURE:	2

Table 1: Soil Parameters

Boring No.	Depth Below Ground Surface (ft.)	USCS Soil Type	Average N-Value	Unit Weight (pcf)		Angle of Internal Friction (degrees)	Cohesion (psf)	Modulus of Lateral Subgrade Reaction, k (pci)
				γ_{sat}	γ_{sub}			
B-1	0.0 to 9.0	SP	8	105	42	26	0	25
	9.0 to 18.5	SC	16	110	47	28	0	100
	18.5 to 30.0	SP	33	120	57	29	0	100
B-2*	0.0 to 18.5	SP	7	105	42	26	0	25
	18.5 to 33.5	SC	13	110	47	27	0	100
	33.5 to 35.0	LS	50	135	72	-	0	-
B-3	0.0 to 18.5	SP	13	110	47	27	0	100
	18.5 to 30.0	SC	21	115	52	28	0	100
B-4	0.0 to 3.0	LS	-	-	-	-	0	-
	3.0 to 8.0	SP	6	105	42	26	0	25
	8.0 to 18.0	SC	22	115	52	28	0	100
	18.0 to 19.0	LS	50	135	72	-	0	-

*Soil parameters based on soil consistencies prior to compaction grouting.

Log of Borehole: B-1

Project: TRAFFIC SIGNAL ARMS, SE 44 AVE AND SW 20 ST, OCALA — Project No: 21-3006.193.1
Boring Location: NW CORNER OF SE 44 AVE AND SW 20 ST — Engineer: NJH/DAC
Client: CITY OF OCALA ENGINEERING DEPARTMENT — Enclosure: SITE PLAN

GEO-TECH, INC. ENGINEERING CONSULTANTS, 1016 SE 3rd Avenue, Ocala, Florida, 352.694.7711, WWW.GEOTECHFL.COM

Depth (ft)	Description	Consistency	Depth/Elev.	Number	Type	Blows/ft
0	Ground Surface		0.0			
	FINE SAND: BROWN TO LIGHT BROWN FINE SAND (SP)	HAND AUGERED POSSIBLE UTILITIES				
		LOOSE		1		8
		LOOSE	9.0	2		7
	CLAYEY SAND: YELLOWISH BROWN TO GREY AND YELLOWISH BROWN CLAYEY SAND (SC); LABORATORY TESTING AT 9.5 FEET: % PASS -200 = 27.3, ATTERBERG LIMITS: PL=16, LL=44, PI=28	MEDIUM DENSE		3		26
			18.5			
	FINE SAND: LIGHT GREY FINE SAND (SP)	DENSE		4		47
		MEDIUM DENSE		5		24
		MEDIUM DENSE	30.0	6		27
	End of Borehole					

Standard Penetration Test N-Values (0 20 40 60 80 100): 8, 7, 26, 47, 24, 27

Ground Water Depth: GREATER THAN 10.0 FEET — Drilled By: WH/CC/LE
Drill Date: DECEMBER 22, 2021 — Drill Method: ASTM D-1586
Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW
Soil Profile : 1 OF 4

Log of Borehole: B-2

Project: TRAFFIC SIGNAL ARMS, SE 44 AVE AND SW 20 ST, OCALA — Project No: 21-3006.193.1
Boring Location: NE CORNER OF SE 44 AVE AND SW 20 ST — Engineer: NJH/DAC
Client: CITY OF OCALA ENGINEERING DEPARTMENT — Enclosure: SITE PLAN

GEO-TECH, INC. ENGINEERING CONSULTANTS, 1016 SE 3rd Avenue, Ocala, Florida, 352.694.7711, WWW.GEOTECHFL.COM

Depth (ft)	Description	Consistency	Depth/Elev.	Number	Type	Blows/ft
0	Ground Surface		0.0			
	FINE SAND: BROWN TO LIGHT BROWN FINE SAND (SP)	HAND AUGERED POSSIBLE UTILITIES				
		LOOSE		1		6
		LOOSE		2		5
		MEDIUM DENSE		3		11
			18.5			
	CLAYEY SAND: GREY AND BROWN CLAYEY SAND (SC)	MEDIUM DENSE		4		26
		MEDIUM DENSE		5		23
		LOOSE		6		4
		WOH (30.5'-32.0')		7		0
			33.5			
	LIMESTONE: LIGHT BROWN LIMESTONE	50 BLOWS - 5"	35.0	8		50
	End of Borehole					

Standard Penetration Test N-Values (0 20 40 60 80 100): 6, 5, 11, 26, 23, 4, 0, 50

Ground Water Depth: GREATER THAN 10.0 FEET — Drilled By: WH/CC/LE
Drill Date: DECEMBER 22, 2021 — Drill Method: ASTM D-1586
Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW
Soil Profile : 2 OF 4

Log of Borehole: B-3

Project: TRAFFIC SIGNAL ARMS, SE 44 AVE AND SW 20 ST, OCALA — Project No: 21-3006.193.1
Boring Location: SW CORNER OF SE 44 AVE AND SW 20 ST — Engineer: NJH/DAC
Client: CITY OF OCALA ENGINEERING DEPARTMENT — Enclosure: SITE PLAN

GEO-TECH, INC. ENGINEERING CONSULTANTS, 1016 SE 3rd Avenue, Ocala, Florida, 352.694.7711, WWW.GEOTECHFL.COM

Depth (ft)	Description	Consistency	Depth/Elev.	Number	Type	Blows/ft
0	Ground Surface		0.0			
	FINE SAND: BROWN TO LIGHT BROWN FINE SAND (SP)	HAND AUGERED POSSIBLE UTILITIES				
		LOOSE		1		9
		LOOSE		2		7
		MEDIUM DENSE		3		23
			18.5			
	CLAYEY SAND: GREY AND BROWN CLAYEY SAND (SC)	DENSE		4		31
		MEDIUM DENSE		5		19
		MEDIUM DENSE	30.0	6		13
	End of Borehole					

Standard Penetration Test N-Values (0 20 40 60 80 100): 9, 7, 23, 31, 19, 13

Ground Water Depth: GREATER THAN 10.0 FEET — Drilled By: WH/CC/LE
Drill Date: DECEMBER 22, 2021 — Drill Method: ASTM D-1586
Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW
Soil Profile : 3 OF 4

Log of Borehole: B-4

Project: TRAFFIC SIGNAL ARMS, SE 44 AVE AND SW 20 ST, OCALA — Project No: 21-3006.193.1
Boring Location: SE CORNER OF SE 44 AVE AND SW 20 ST — Engineer: NJH/DAC
Client: CITY OF OCALA ENGINEERING DEPARTMENT — Enclosure: SITE PLAN

GEO-TECH, INC. ENGINEERING CONSULTANTS, 1016 SE 3rd Avenue, Ocala, Florida, 352.694.7711, WWW.GEOTECHFL.COM

Depth (ft)	Description	Consistency	Depth/Elev.	Number	Type	Blows/ft
0	Ground Surface		0.0			
	LIMESTONE: LIGHT BROWN LIMESTONE	HAND AUGERED POSSIBLE UTILITIES	3.0			
	FINE SAND: BROWN FINE SAND (SP)	LOOSE		1		4
		LOOSE	8.0	2		8
	CLAYEY SAND: GREY AND YELLOWISH BROWN; LABORATORY TESTING AT 9.0 FEET: % PASS -200 = 37.2, ATTERBERG LIMITS: PL=26, LL=44, PI=18	MEDIUM DENSE		3		14
		MEDIUM DENSE		4		29
			18.0			
	LIMESTONE: LIGHT BROWN LIMESTONE	50 BLOWS - 5"	19.0	5		50
	End of Borehole					

Standard Penetration Test N-Values (0 20 40 60 80 100): 4, 8, 14, 29, 50

Ground Water Depth: GREATER THAN 10.0 FEET — Drilled By: WH/CC/LE
Drill Date: DECEMBER 22, 2021 — Drill Method: ASTM D-1586
Remarks: (SP) UNIFIED SOIL CLASSIFICATION SYMBOL AS DETERMINED BY VISUAL REVIEW
Soil Profile : 4 OF 4

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
05/08/25	SEPARATE RETAINING WALL CONSTRUCTION "BY OTHERS"		

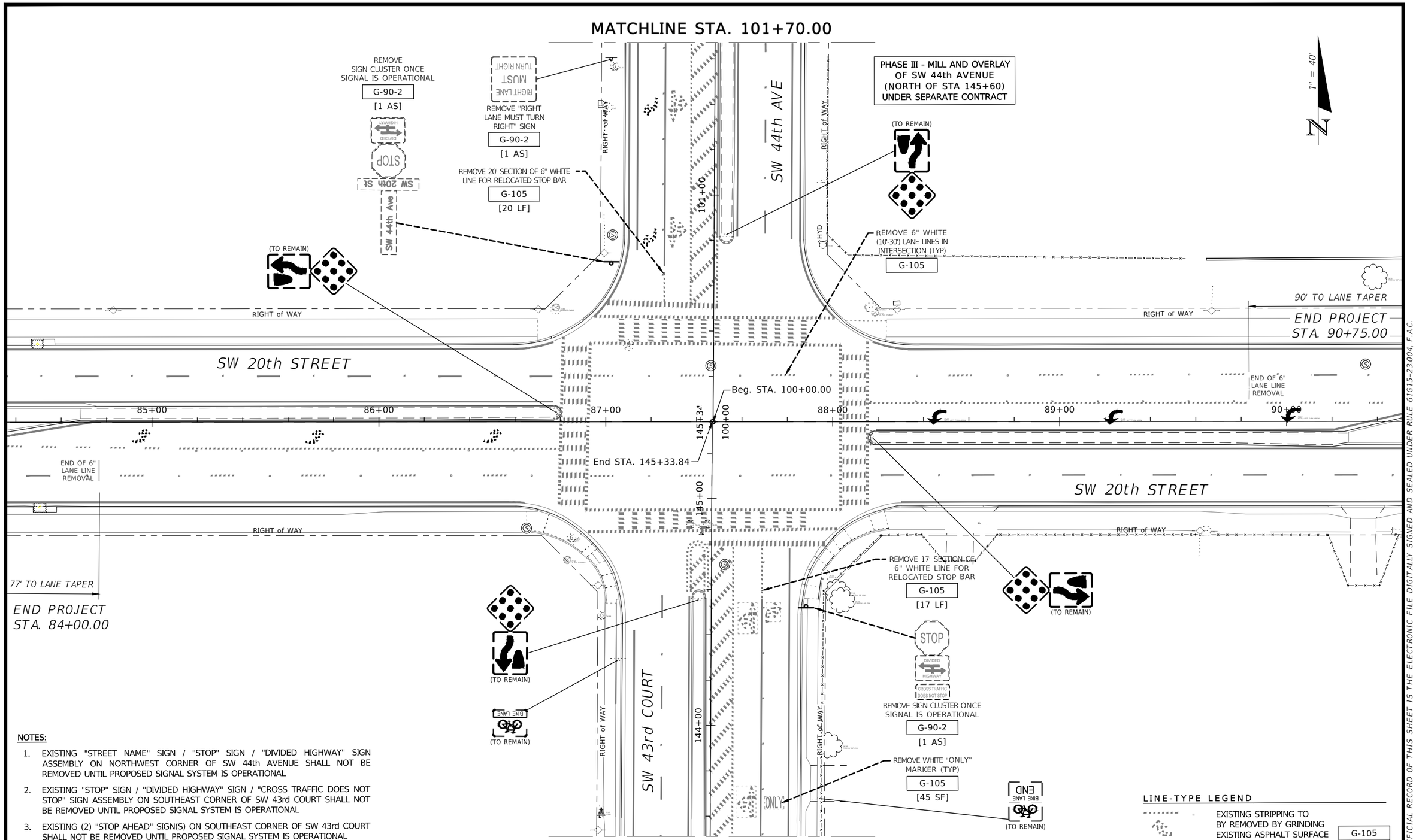
ENGINEER OF RECORD
NOEL JOHN COOPER, P.E.
P.E. LICENSE NUMBER: 69534
STATE OF FLORIDA, DATED: / / .
VALID ONLY WITH EMBOSSED SEAL

PREPARED BY
OCALA City Engineer's Office

PROJECT No. 22602
PROJECT NAME: SW 44TH AVENUE - SW 20TH STREET SIGNALIZATION

SOIL BORING LOCATION MAP, TABLE, AND LOGS

SHEET No. T11



NOTES:

1. EXISTING "STREET NAME" SIGN / "STOP" SIGN / "DIVIDED HIGHWAY" SIGN ASSEMBLY ON NORTHWEST CORNER OF SW 44th AVENUE SHALL NOT BE REMOVED UNTIL PROPOSED SIGNAL SYSTEM IS OPERATIONAL
2. EXISTING "STOP" SIGN / "DIVIDED HIGHWAY" SIGN / "CROSS TRAFFIC DOES NOT STOP" SIGN ASSEMBLY ON SOUTHEAST CORNER OF SW 43rd COURT SHALL NOT BE REMOVED UNTIL PROPOSED SIGNAL SYSTEM IS OPERATIONAL
3. EXISTING (2) "STOP AHEAD" SIGN(S) ON SOUTHEAST CORNER OF SW 43rd COURT SHALL NOT BE REMOVED UNTIL PROPOSED SIGNAL SYSTEM IS OPERATIONAL
4. CONTRACTOR SHALL REMOVE ALL CONFLICTING PAVEMENT MARKINGS

LINE-TYPE LEGEND

- EXISTING STRIPPING TO BY REMOVED BY GRINDING EXISTING ASPHALT SURFACE — G-105 SF

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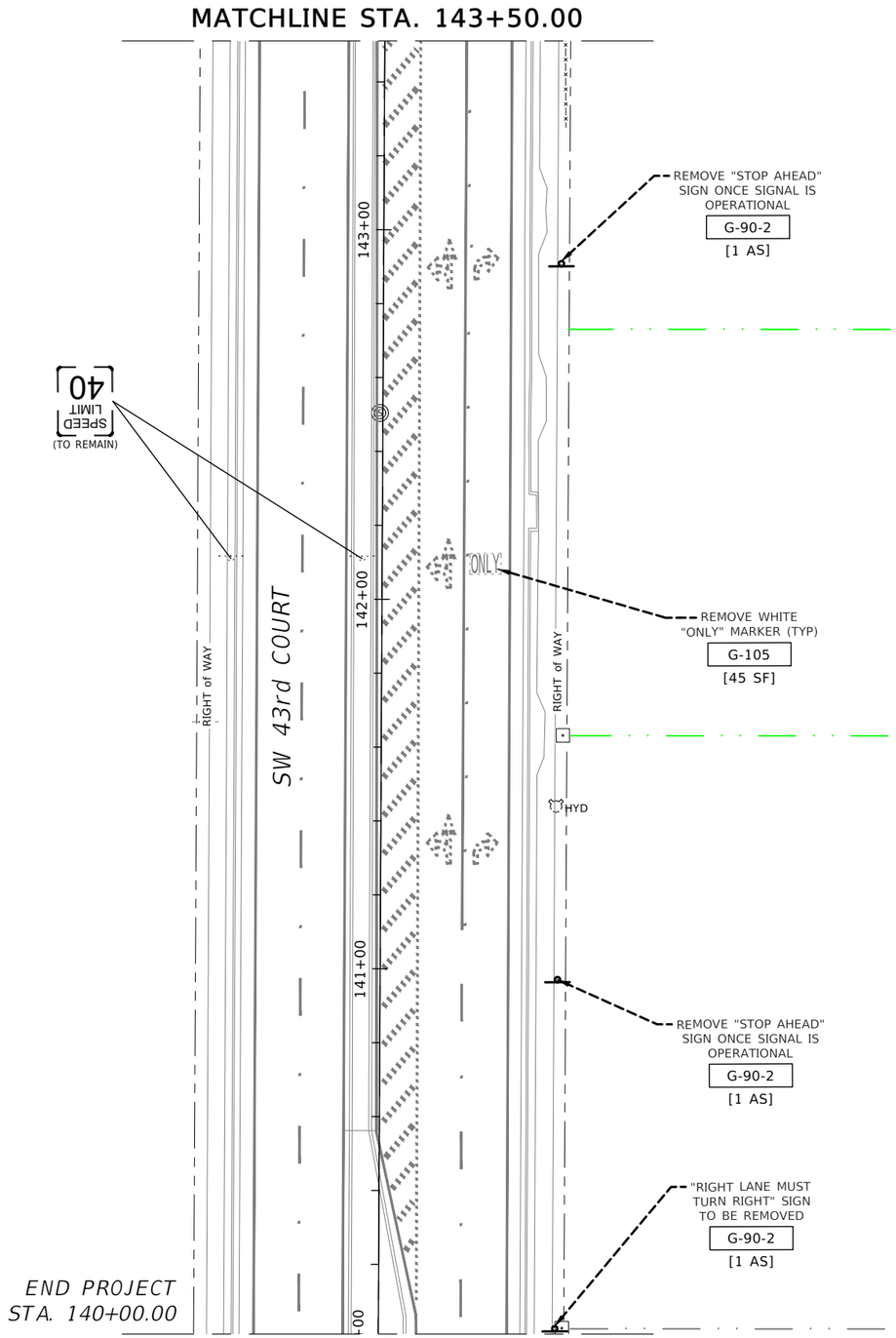
PROJECT No. 22602
PROJECT NAME: SW 44TH AVENUE – SW 20TH STREET SIGNALIZATION

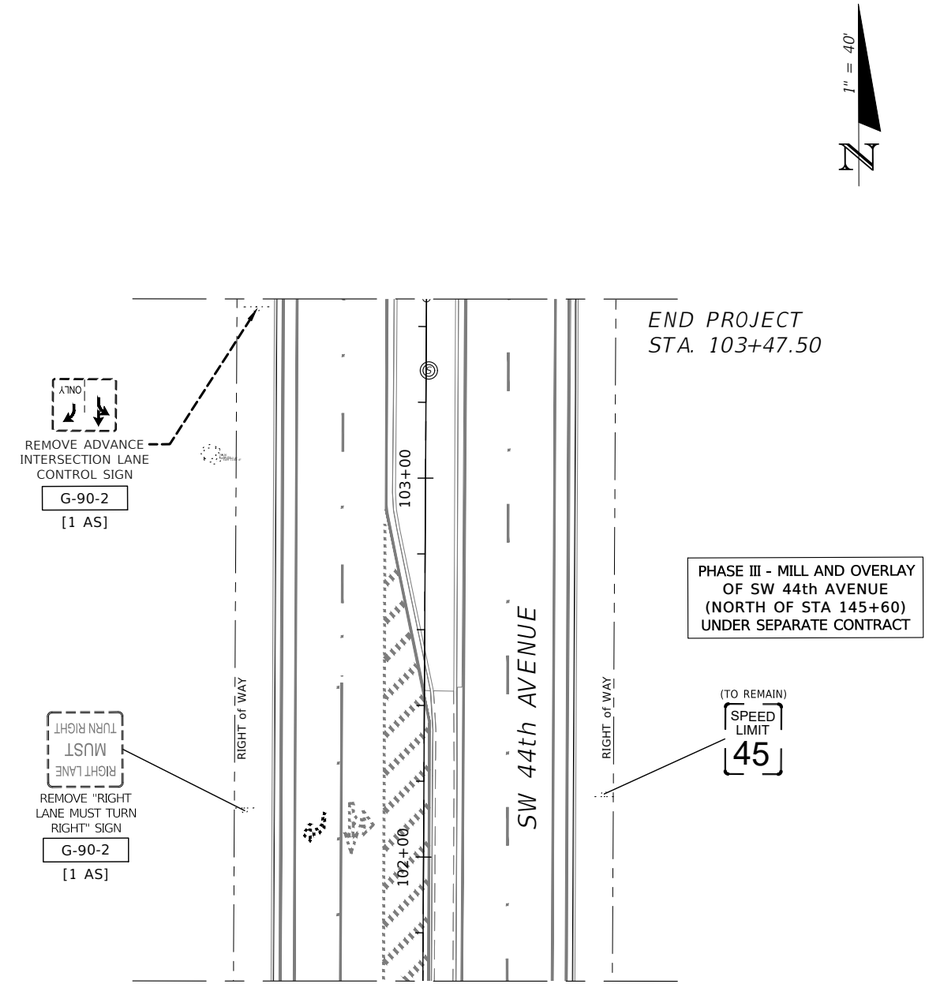
SIGNING & PAVEMENT MARKING REMOVAL (1 OF 2)

SHEET No. T12

Michael Romaine 5/8/2025 T:_sd-ENG-Transportation\Projects\2022\600 TRAFFIC\22602 - SIGNALIZATION (SP) at SW 44th Ave and SW 20th St\02260211103\SigningAndMarking\PLANSP01 - Rev 01.dwg



SOUTH PORTION OF SW 43rd COURT



MATCHLINE STA. 101+70.00

NORTH PORTION OF SW 44th AVENUE

NOTES:

1. CONTRACTOR SHALL REMOVE ALL CONFLICTING PAVEMENT MARKINGS

LINE-TYPE LEGEND

- EXISTING STRIPPING TO BY REMOVED BY GRINDING EXISTING ASPHALT SURFACE — G-105 SF

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REVISIONS			
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ENGINEER OF RECORD

NOEL JOHN COOPER, P.E.
P.E. LICENSE NUMBER: 69534
STATE OF FLORIDA, DATED: / / .
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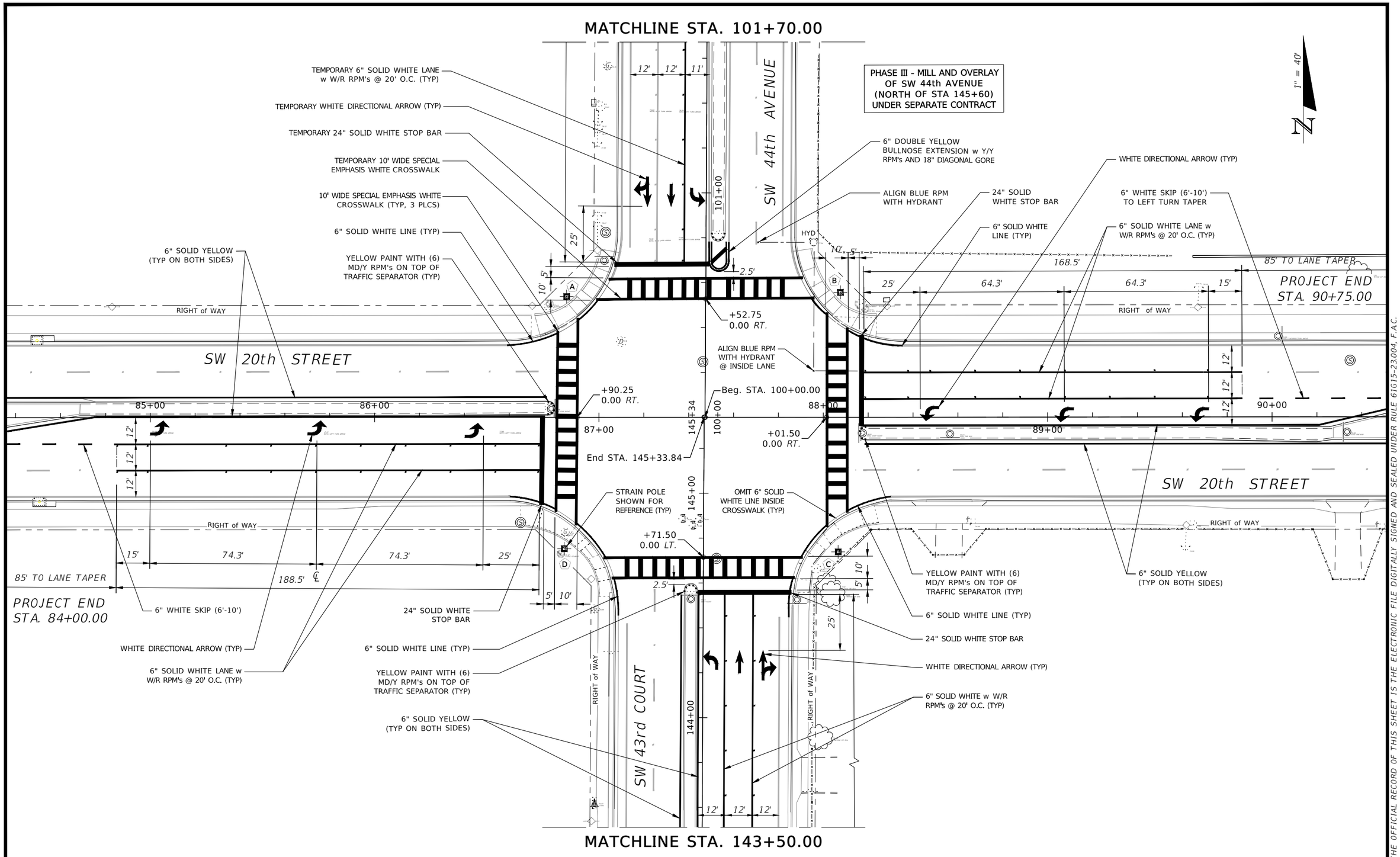
OCALA City Engineer's Office

PROJECT No. 22602

PROJECT NAME: SW 44TH AVENUE - SW 20TH STREET SIGNALIZATION

SIGNING & PAVEMENT MARKING REMOVAL (2 OF 2)

SHEET No. T13



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
05/08/25	SEPARATE RETAINING WALL CONSTRUCTION "BY OTHERS"		

ENGINEER OF RECORD

NOEL JOHN COOPER, P.E.
P.E. LICENSE NUMBER: 69534
STATE OF FLORIDA, DATED: / / .
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PREPARED BY

OCALA City Engineer's Office

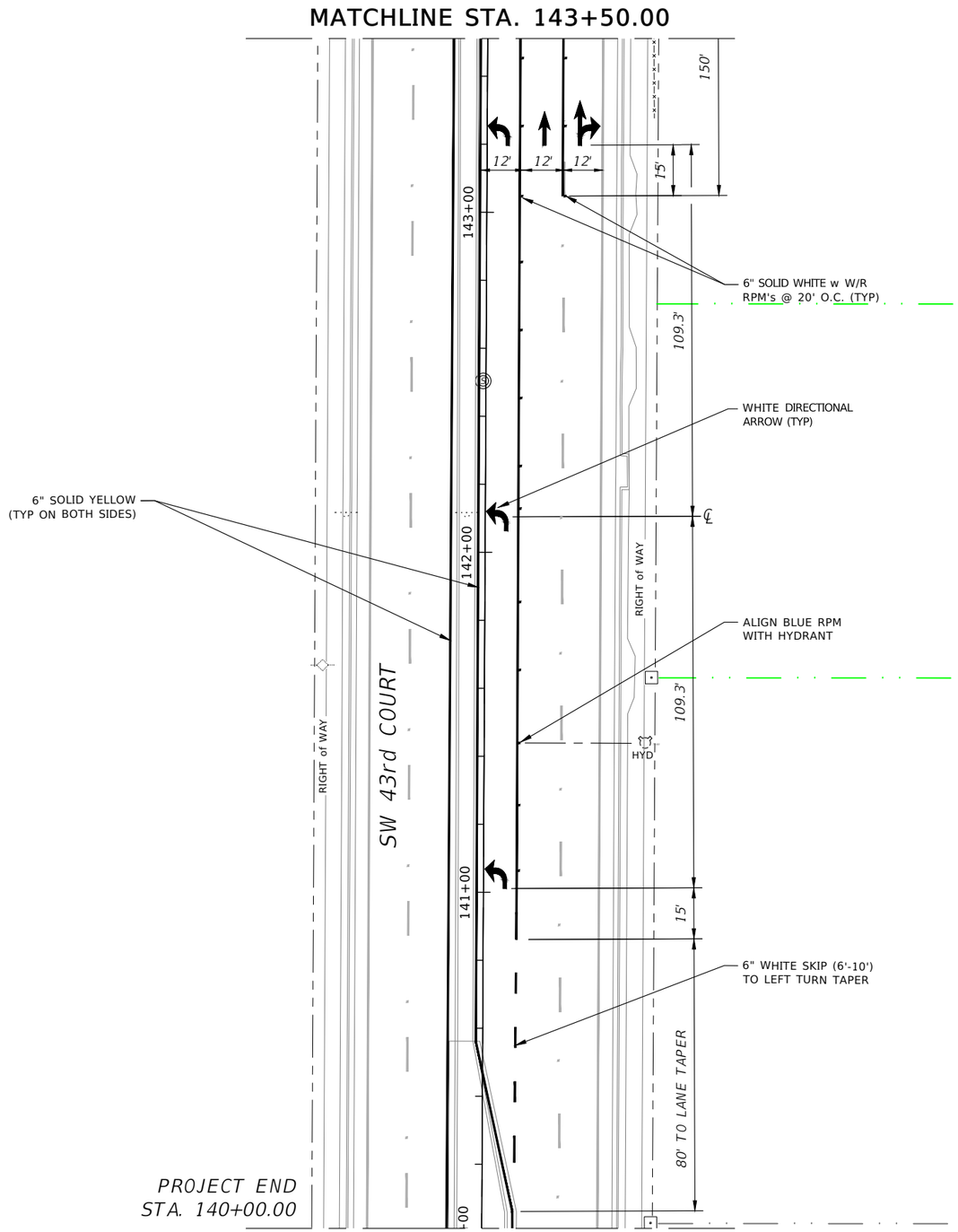
PROJECT No. 22602
PROJECT NAME: SW 44TH AVENUE - SW 20TH STREET SIGNALIZATION

PROPOSED SIGNING AND PAVEMENT MARKING (1 OF 2)

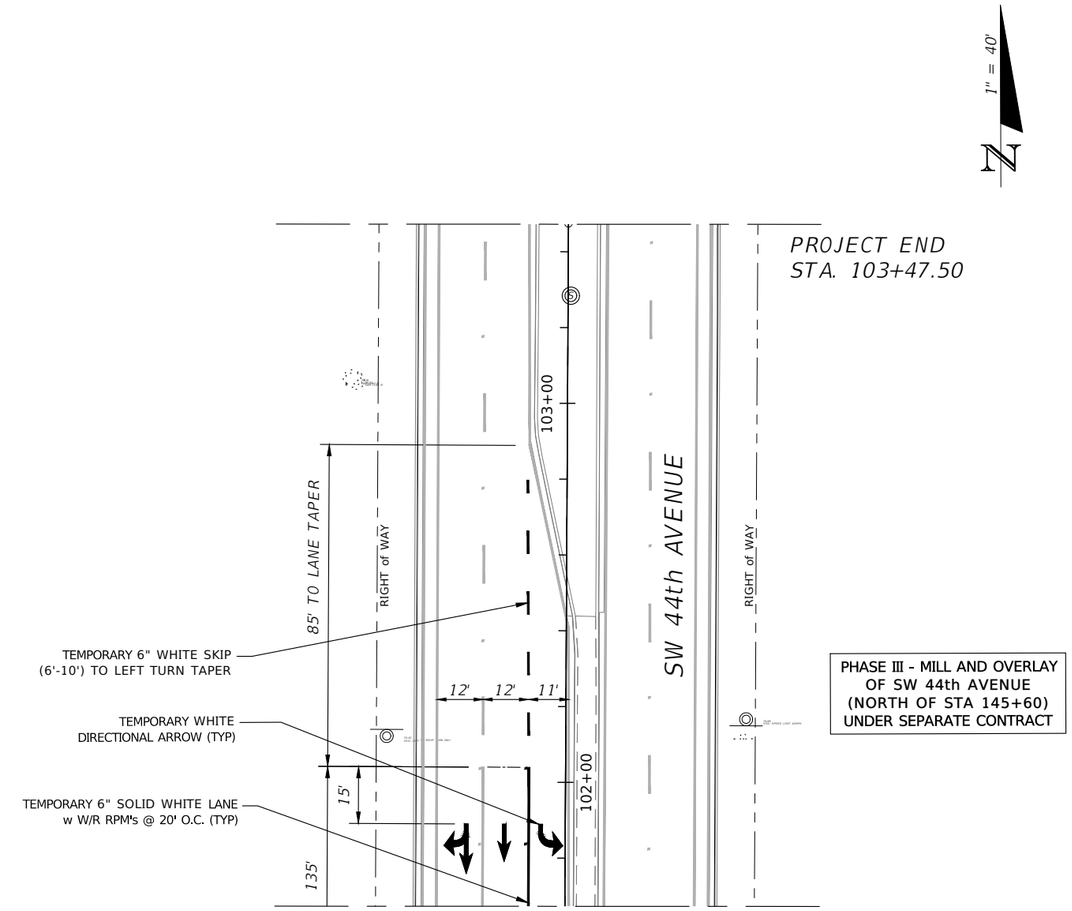
SHEET No. T14

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Michael Romaine 5/8/2025 T:_sd-ENG-Transportation\Projects\2022\600 TRAFFIC\22602 - SIGNALIZATION (SP) at SW 44th Ave and SW 20th St\02260211103\SigningAndMarking\PLANSP02 - Rev 01.dwg



SOUTH PORTION OF SW 43rd COURT



PHASE III - MILL AND OVERLAY
OF SW 44th AVENUE
(NORTH OF STA 145+60)
UNDER SEPARATE CONTRACT

MATCHLINE STA. 101+70.00

NORTH PORTION OF SW 44th AVENUE

SIGNING & MARKING NOTES

(EXTRACTED FROM FDOT INDEX #706-001, SHEET 1 OF 6)

1. OFFSET ALL RPM's 1" FROM LONGITUDINAL LINES UNLESS OTHERWISE NOTED OR SHOWN
2. ORIENT TRAFFIC FACES OF RPM's IN CURB MEDIAN RADII TO BE PARALLEL TO DIRECTION OF TRAVEL LANES
3. USE EPOXY ADHESIVE TO INSTALL RPM's ON CONCRETE MEDIAN NOSE CURBS
4. INSTALL RPM"S ON CLEAN UNPAINTED SURFACE. DO NOT PAINT CURB SURFACE WHERE RPM's WILL BE PLACED
5. MAKE THE TRAFFIC FACE OF THE RPM THE SAME COLOR AS THE PAVEMENT MARKING THAT IT IS SUPPLEMENTING

SIGNING & MARKING LEGEND

(EXTRACTED FROM FDOT INDEX #706-001, SHT 1 OF 6)

B/C	=	BACK OF CURB
EOP	=	EDGE OF PAVEMENT
RPM	=	RAISER PAVEMENT MARKER
W/R	=	WHITE/RED RPM
Y/Y	=	YELLOW/YELLOW RPM
Y/R	=	YELLOW/RED RPM
MD/Y	=	MONO-DIRECTION YELLOW RPM

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PROJECT No. 22602
PROJECT NAME: SW 44TH AVENUE - SW 20TH STREET SIGNALIZATION

PROPOSED SIGNING AND PAVEMENT MARKING (2 OF 2)

SHEET No.
T15