



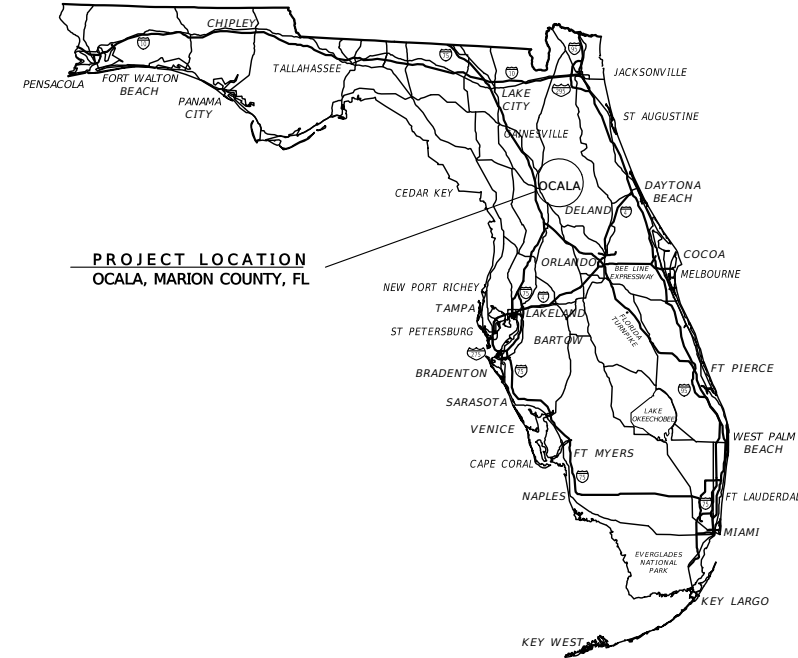
CITY ENGINEER'S OFFICE
 TRANSPORTATION ENGINEERING
 1805 NE 30th AVENUE, BLDG 300
 OCALA, FLORIDA 34470-4877

CONTRACT PLANS

PROJECT ID: ENGCIP23-0008

SW 44th AVE ROUNDABOUT (N OF SW 32nd ST)

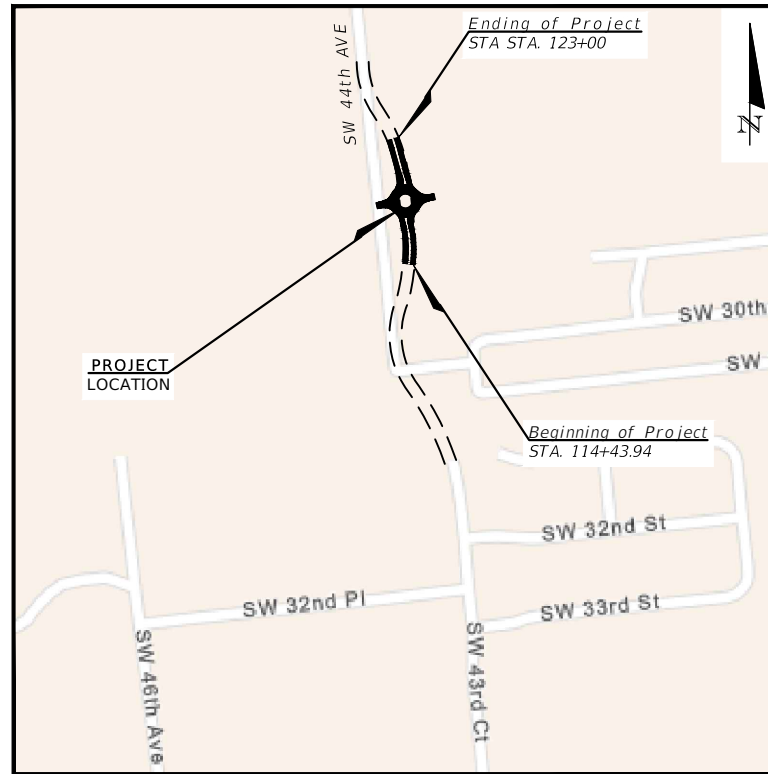
90% PLANS
 - NOT FOR CONSTRUCTION -
 ISSUE DATE: 11/20/2024



| UTILITY COMPANIES | | | |
|--|------------------|----------------|----------------|
| UTILITY COMPANY NAME | CONTACT | PHONE No | EMERGENCY |
| CITY OF OCALA WATER & SEWER | HECTOR COLON, PE | (352) 351-6944 | (352) 351-6782 |
| CITY OF OCALA ELECTRIC UTILITY | DONNIE FALES | (352) 351-6620 | (352) 351-6666 |
| CITY OF OCALA TELECOMMUNICATIONS (FOC) | BILL WEAKLAND | (352) 351-6912 | N/A |
| CITY OF OCALA TRAFFIC | NICK BLIZZARD | (352) 351-6707 | N/A |
| TECO PEOPLES GAS of OCALA | LONDON MEAHL | (352) 622-0112 | (407) 408-5566 |
| CENTURYLINK of OCALA | JOHN PLAMONDON | (352) 368-8817 | (352) 425-4444 |
| COX COMMUNICATIONS of MARION | CRAIG SANDERS | (352) 873-5631 | (888) 269-9693 |
| AT&T of MARION | DINO FARRUGIO | (561) 997-0240 | N/A |

GOVERNING DOCUMENTS

- U.S. DEPARTMENT OF TRANSPORTATION, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2023)
- 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 2024 Version)
- 2023 FDOT DESIGN MANUAL (EFFECTIVE JANUARY 1, 2023) (FDM 213 MODERN ROUNDABOUTS)



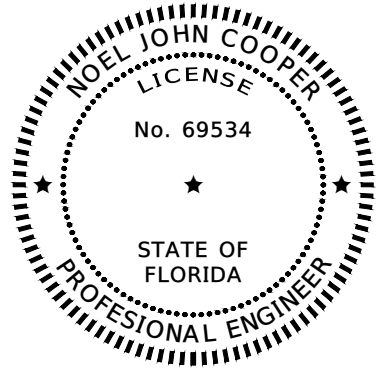
POSTED SPEED LIMIT

SW 43rd CT/ SW 44th AVE = 40 MPH

| INDEX OF SHEETS | |
|-----------------|-----------------------------|
| SHEET No | SHEET DESCRIPTION |
| 1 | KEY SHEET |
| 2 | SIGNATURE SHEET |
| 3 | GENERAL NOTES |
| 4 | ENVIRONMENTAL NOTES |
| 5 | ABBREVIATIONS & LEGENDS |
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| 7 | TYPICAL DETAILS |
| 8 | DEMOLITION PLAN |
| 9 | ROADWAY PLAN (GEOMETRY) |
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| 12A | STORM STRUCTURES TABLE |
| 13 | SIGNING & PAVEMENT MARKING |
| S01 | SURVEY CONTROL POINTS TABLE |
| S02 Thru S03 | TOPOGRAPHIC SURVEY |



| R E V I S I O N S | | | | ENGINEER OF RECORD | | PREPARED BY | | PROJECT No. 23101 | | SHEET No. |
|-------------------|-------------|------|-------------|---|--|------------------------------|--|--------------------------------------|--|-----------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | | OCALA City Engineer's Office | | PROJECT NAME: SW 44th AVE ROUNDABOUT | | |
| --- | --- | --- | --- | NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL | | | | | | 1 |



THIS ITEM HAS BEEN DIGITALLY SIGNED & SEALED BY

ON THE DATE ADJACENT TO THE SEAL

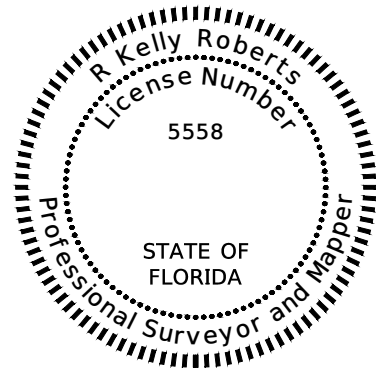
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CITY OF OCALA
CITY ENGINEER'S OFFICE
TRANSPORTATION ENGINEERING
1805 NE 30TH AVE., BLDG. 300
OCALA, FLORIDA 34470

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

SHEET INDEX

- 1 - KEY SHEET
- 2 - SIGNATURE SHEET
- 3 - GENERAL NOTES
- 4 - ENVIRONMENTAL NOTES
- 5 - ABBREVIATIONS & LEGENDS
- 6 - SUMMARY OF PAY ITEMS
- 7 - TYPICAL DETAILS
- 8 - DEMOLITION PLAN
- 9 - ROADWAY PLAN (GEOMETRY)
- 10 - ROADWAY PLAN (GRADING)
- 11 - 12 - ROADWAY PROFILE (-)
- 13 - SIGNING & PAVEMENT MARKING



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CITY OF OCALA
CITY ENGINEER'S OFFICE
CHIEF LAND SURVEYOR
1805 NE 30TH AVE., BLDG. 700a
OCALA, FLORIDA 34470

THE ABOVE NAMED PROFESSIONAL SURVEYOR & MAPPER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 5J-17.060,17.062, F.A.C.

PLAN SHEET INDEX

- S01 - SURVEY CONTROL POINTS TABLE
- S02 thru S03 - EXISTING TOPO

| R E V I S I O N S | | | | ENGINEER OF RECORD | PREPARED BY | PROJECT No. 23101 | SHEET No. |
|-------------------|-------------|------|-------------|--------------------|---|---|-----------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | PROJECT NAME: SW 44TH AVE ROUNDABOUT | <p style="text-align: center;"><i>SIGNATURE SHEET</i></p> | |
| --- | --- | | | | NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL | | |

GENERAL NOTES:

1. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE CITY OF OCALA ENGINEER OF RECORD.
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. ALL UTILITIES SHOWN ON THESE PLANS HAVE BEEN PLOTTED FROM THE BEST AVAILABLE RECORDS. HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THEIR LOCATIONS AND CONDITIONS FROM THE UTILITY AGENCIES PRIOR TO STARTING THE PROPOSED CONSTRUCTION ACTIVITIES.
5. 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. IN PARTICULAR, ALL UTILITY CONFLICTS SHALL BE RESOLVED PRIOR TO THE SETTING OF OR PLACING OF ANY SUB-GRADE AND/OR BURIED ITEMS. SHOULD THE CONTRACTOR ENCOUNTER ANY UNIDENTIFIED UTILITIES DURING CONSTRUCTION ACTIVITIES, WORK IN THE AREA SHALL CEASE AND THE CITY TRANSPORTATION ENGINEER, NOEL J COOPER, P.E. (AT 352-351-6708) SHALL BE IMMEDIATELY NOTIFIED SO THAT REMEDIAL ACTION CAN BE TAKEN.
6. 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) ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION; AND ANY REQUIREMENTS OF THE CITY OF OCALA THAT MEET OR EXCEED ANY OF THE AFOREMENTIONED GOVERNING JURISDICTIONS.
7. 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.
8. 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.
9. IF ANY EXISTING SIGNS ARE REMOVED OR RELOCATED DURING CONSTRUCTION, THE CONTRACTOR SHALL REINSTALL THEM IMMEDIATELY AT THE PROPER HEIGHT AND DISTANCE.
10. THE CONTRACTOR SHALL NOT REMOVE OR DAMAGE ANY BUILDING FOUNDATIONS, AND SHALL NOTIFY THE ENGINEER OF RECORD OF ANY PROBLEMS OR CONCERNS.
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 REPAIR OR REPLACE ALL PAVEMENT MARKINGS, RPM'S, TRAFFIC LOOPS OR HOMERUNS THAT ARE DAMAGED DURING THE CONSTRUCTION PROCESS.
15. 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.
16. IN THE EVENT THAT EXISTING MAILBOXES ARE TO BE RELOCATED AND/OR REMOVED, THE CONTRACTOR SHALL NOTIFY THE POSTMASTER OF THE OCALA POST OFFICE NO LESS THAN SEVEN (7) BUSINESS DAYS (EXCLUDING WEEKENDS AND POSTAL HOLIDAYS) PRIOR TO COMMENCEMENT OF THE WORK.
17. 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.
18. 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.
19. UNLESS OTHERWISE SPECIFIED ON THE PLANS, THE CONTRACTOR SHALL MAINTAIN 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.
20. 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.
21. 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.
22. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO ORIGINAL CONDITION - UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER OF RECORD IN WRITING.
23. THE CONTRACTOR SHALL BE NOISE SENSITIVE FOR NIGHT OPERATIONS (WHEN APPLICABLE).
24. 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.

IMPORTANT NOTE TO CONTRACTOR

THESE PLANS HAVE BEEN PREPARED BASED UPON THE CITY OF OCALA'S 2009 PLANIMETRIC DRAWINGS PREPARED BY AERIAL CARTOGRAPHICS, INC. WITH AERIAL PHOTOGRAPHY DATES OF 3/29/09 AND 3/30/09. 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

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 NATIONAL GEODETIC VERTICAL DATUM OF 1929 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 CONTRACTOR'S 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.

| R E V I S I O N S | | E N G I N E E R O F R E C O R D | | P R E P A R E D B Y | | P R O J E C T N o . 2 3 1 0 1 | | S H E E T N o . |
|-------------------|-------------|---------------------------------|-------------|--|--|---|--|--------------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION |  | | P R O J E C T N A M E : S W 4 4 T H A V E R O U N D A B O U T | | |
| --- | --- | | | NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL | | GENERAL NOTES (1) | | 3 |

ENVIRONMENTAL NOTES:

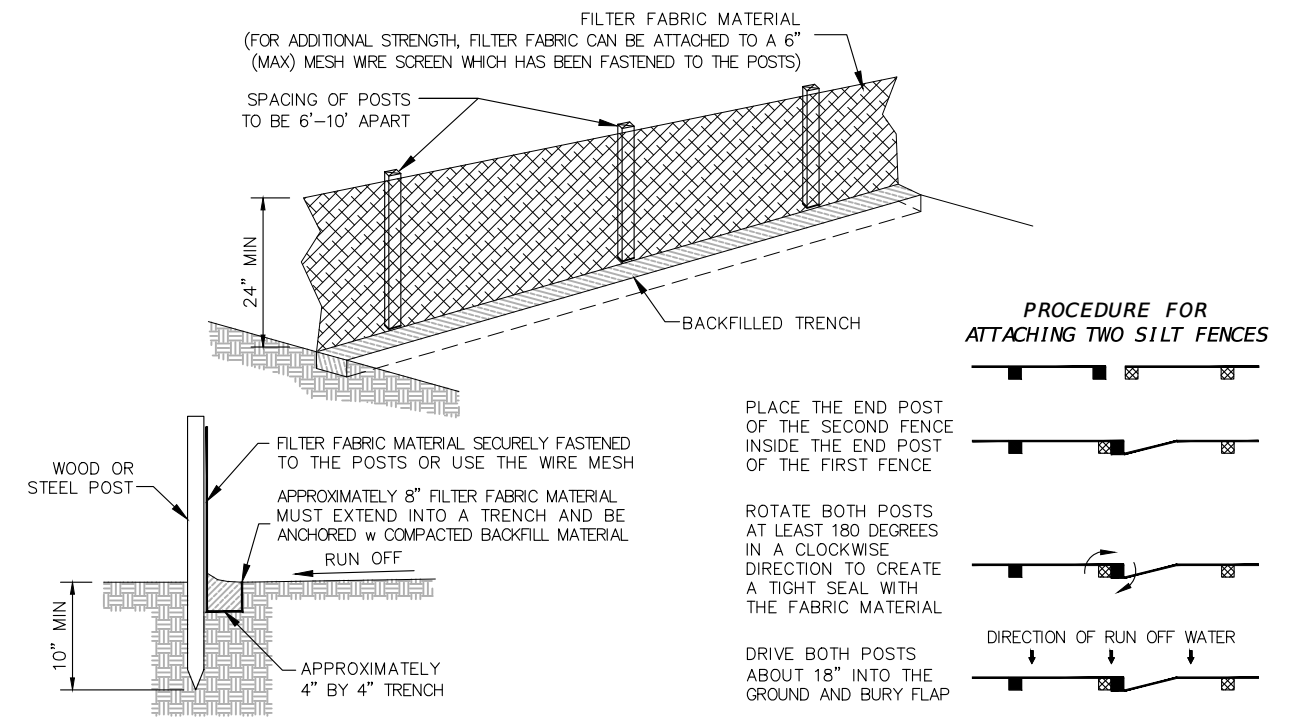
1. THE CONTRACTOR SHALL FORMULARIZE THEMSELVES WITH THE GENERAL NOTES AND FDOT NOTES THAT ARE PROVIDED IN THIS PLAN SET ON A SEPARATE SHEET
2. THE CITY OF OCALA OPERATES UNDER A FDEP NPDES 'GENERAL PERMIT THAT REQUIRES THE CITY AND, IN TURN, ITS CONTRACTORS TO FOLLOW CERTAIN AND SPECIFIC ENVIRONMENTAL 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

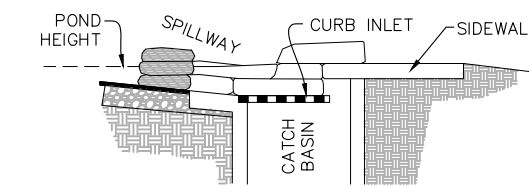
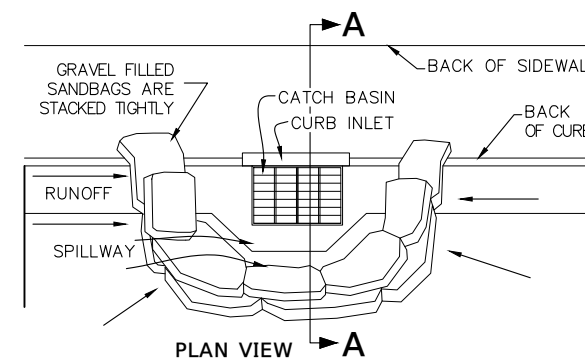
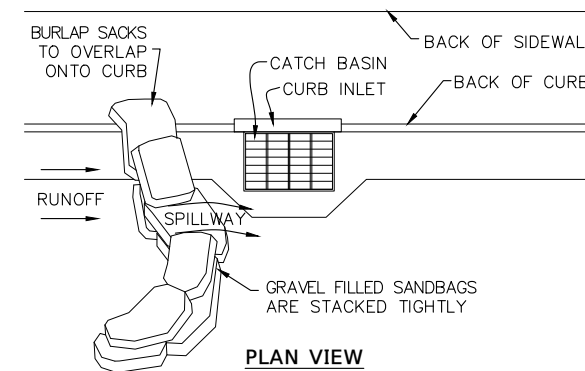
1. THE CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES TO MINIMIZE THE RISK OF SPILLS OR UNINTENDED EXPOSURE OF PETROLEUM AND OTHER HAZARDOUS MATERIALS TO STORMWATER RUNOFF OR SEEPAGE INTO THE GROUNDWATER
2. THE CONTRACTOR SHALL HAVE PRE-PREPARED PROCEDURES CLEARLY POSTED FOR SPILL CONTAINMENT AND 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
3. 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
4. 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
5. 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
6. THE CONTRACTOR SHALL PLACE STAKED SILT FENCE(S) IN ACCORDANCE WITH CITY OF OCALA SPECIFICATIONS
7. 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 EPAS STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER
8. THE CONTRACTOR SHALL INSURE THAT LOADED HAUL TRUCKS BE COVERED WITH TARPULLIN(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
9. 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
10. TOXIC SUBSTANCES SHALL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE TO THE EPAS STANDARD PRACTICES
11. 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
12. 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



SECTION A-A

CURB INLET SEDIMENT BARRIER

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 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

| R E V I S I O N S | | ENGINEER OF RECORD | | PREPARED BY | | PROJECT No. 23101 | | SHEET No. |
|-------------------|-------------|--------------------|-------------|---|--|--------------------------------------|--|-----------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | OCALA City Engineer's Office | | PROJECT NAME: SW 44TH AVE ROUNDABOUT | | |
| --- | --- | | | NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL | | ENVIRONMENTAL NOTES | | 4 |

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 |
| | 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 |
| | PP | POWER POLE |
| | PROP | PROPOSED |
| | QTY | QUANTITY |
| | Rt | RIGHT |
| | ROW | RIGHT-OF-WAY |
| | CO | SANITARY CLEANOUT |
| | SAN | SANITARY MANHOLE |
| | SIGN | SIGN |
| | SOL | SOLID |
| | SPI | STANDARD PLANS INDEX (NUMBER) |
| | STM MH | STORM MANHOLE |
| | St | STREET |
| | STS | PROPOSED DRAINAGE (STORMWATER) STRUCTURE |
| | TEL | TELEPHONE MANHOLE |
| | TEL | 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 PAVEMENT: INVERTED CROWN / FLOWLINE |
| | TOPOGRAPHIC FLOOD ZONE LIMITS |

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

| EXISTING CONDITIONS | | PROPOSED | |
|---------------------|---|----------|---|
| | EDGE OF EXISTING CURB | | EDGE OF PROPOSED CURB |
| | EDGE OF EXISTING SIDEWALK | | EDGE OF PROPOSED SIDEWALK |
| | EDGE OF EXISTING PAVEMENT | | EDGE OF PROPOSED PAVEMENT |
| | EDGE OF EXISTING DRIVEWAY (ALL TYPES) | | EDGE OF PROPOSED DRIVEWAY (ALL TYPES) |
| | EXISTING FENCE (TYPE LABELED) | | PROPOSED FENCE (TYPE LABELED) |
| | EXISTING OVERHEAD POWER | | EROSION CONTROL - SILT FENCE |
| | EXISTING POTABLE WATER | | PROPOSED POTABLE WATER |
| | EXISTING DRAINAGE (w FLOW DIRECTION) | | PROPOSED DRAINAGE (w FLOW DIRECTION) |
| | EXISTING GRAVITY SANITARY SEWER | | PROPOSED GRAVITY SANITARY SEWER |
| | EXISTING FORCE MAIN SANITARY SEWER | | PROPOSED FORCE MAIN SANITARY SEWER |
| | EXISTING STORM WATER SEWER | | PROPOSED STORM WATER SEWER |
| | EXISTING STORM WATER w PIPE SIZE & TYPE (HIGH DENSITY POLYETHYLENE) | | PROPOSED STORM WATER w PIPE SIZE & TYPE (HIGH DENSITY POLYETHYLENE) |
| | EXISTING NATURAL GAS | | PROPOSED NATURAL GAS |
| | EXISTING BURIED ELECTRIC POWER | | PROPOSED BURIED ELECTRIC POWER |
| | EXISTING FIBER OPTIC COMMUNICATION | | PROPOSED FIBER OPTIC COMMUNICATION |
| | EXISTING STRIPING TO BE RETAINED | | PROPOSED STRIPING |
| | EXISTING TREELINE | | 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 |
| | ERC | 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 |
| | DETECTABLE WARNING SURFACE (RED BRICK COLOR WHERE APPLICABLE) | | TYPICAL GRASS MEDIAN w ARGENTINE BAHIA | | REMOVAL OF ASPHALT ONLY |
| | REMOVAL OF ASPHALT & LIMEROCK | | REMOVAL OF OTHER ITEMS | | |

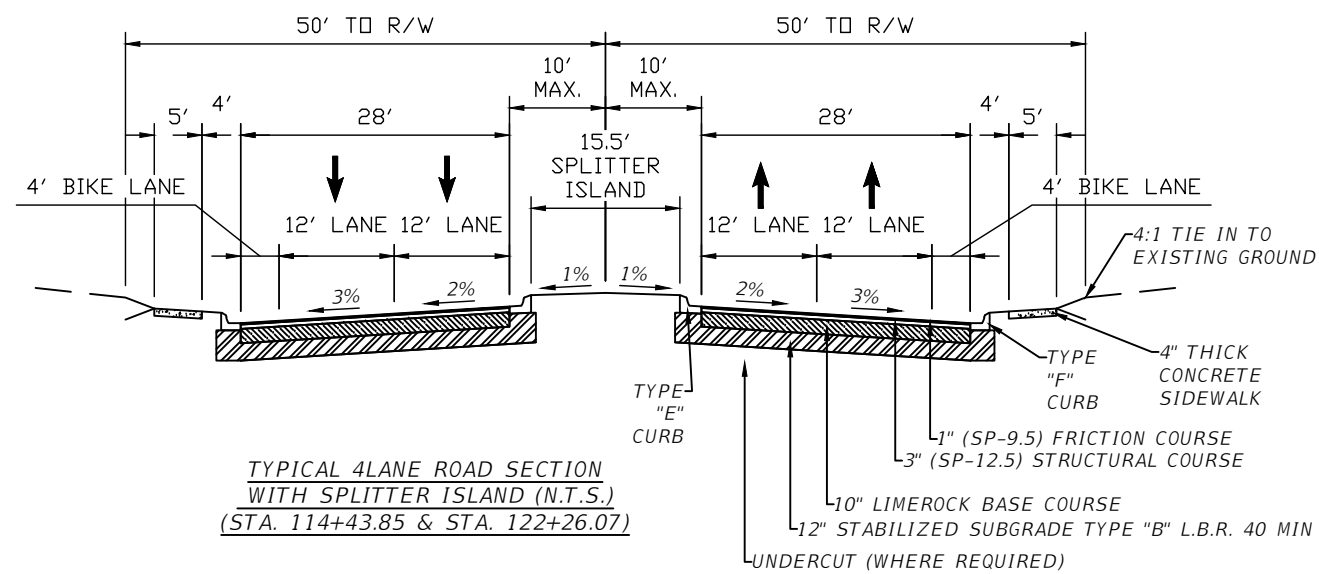
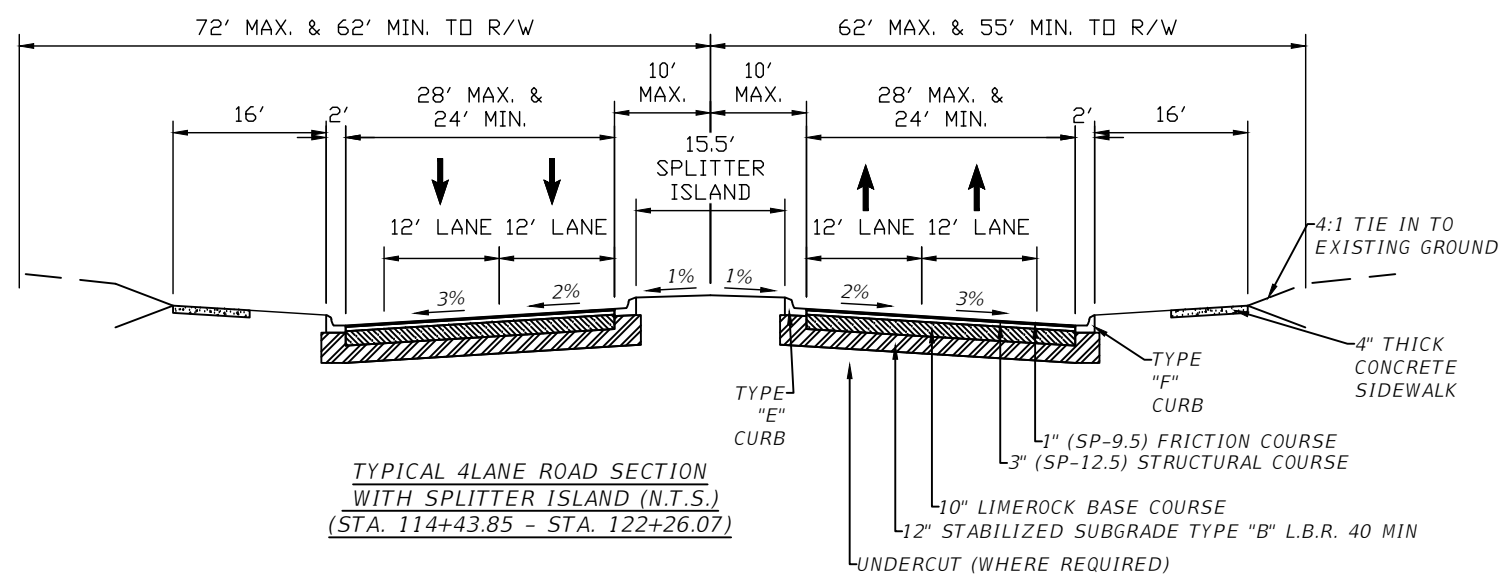
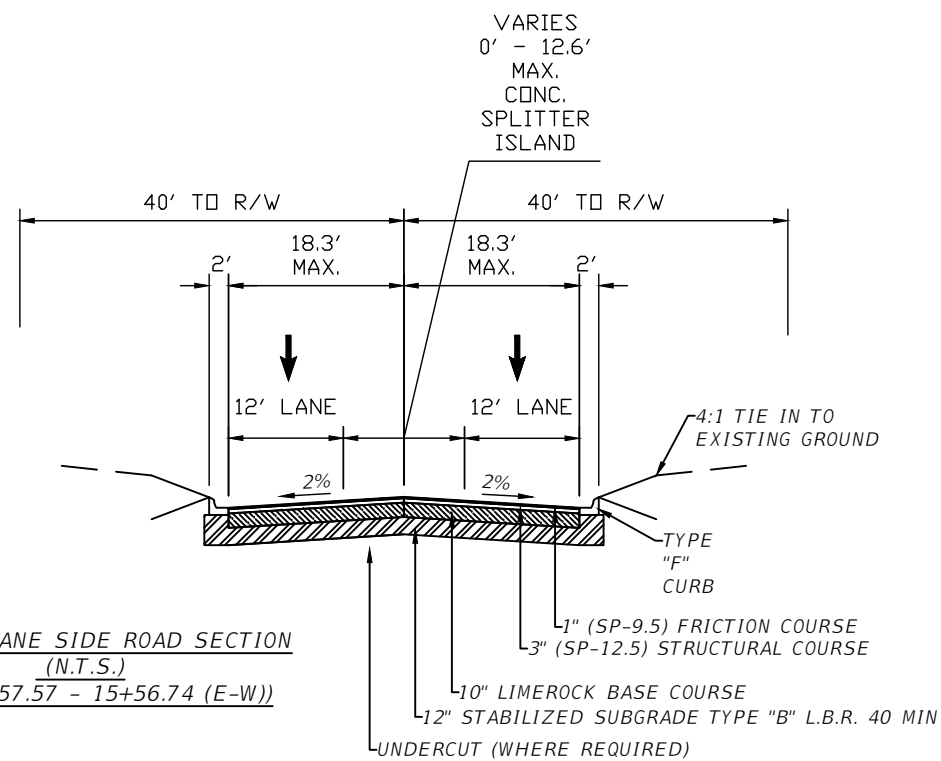
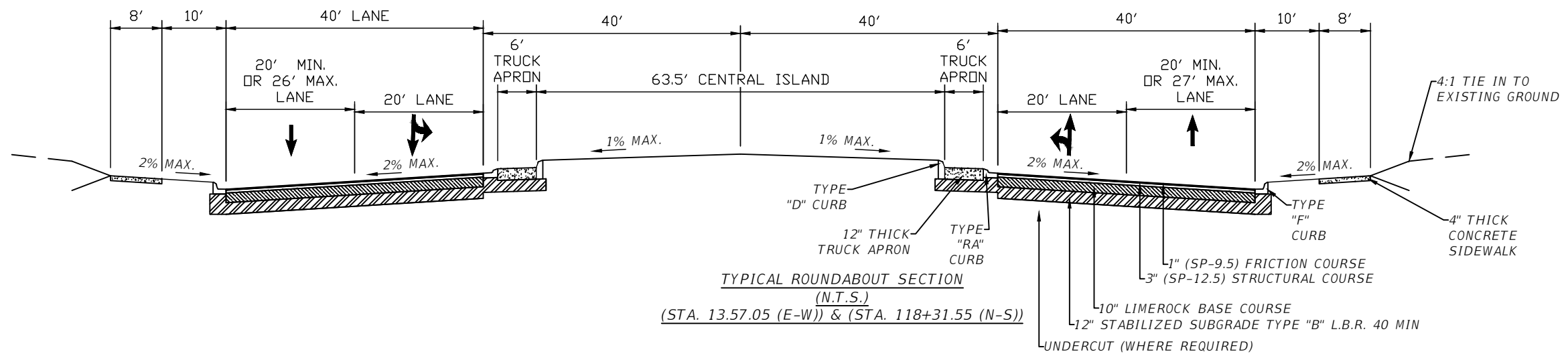
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|-----------|-------------|--------------------|-------------|-------------|--|--------------------------------------|--|-----------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | | PROJECT NAME: SW 44TH AVE ROUNDABOUT | | |
| | | | | | | ABBREVIATIONS & LEGENDS | | 5 |
| | | | | | | | | |

| SUMMARY OF ROADWAY | | | |
|--------------------|---|------|----------|
| ITEM NUMBER | ITEM DESCRIPTION | UNIT | QUANTITY |
| G-01 | Mobilization | LS | 1 |
| G-03 | Project Sign | EA | 2 |
| G-05 | Maintenance of Traffic | LS | 1 |
| G-06 | Silt Fence and Sediment Control | LF | 1,488 |
| FD0T-104-18 | Inlet Protection System | EA | 6 |
| G-10 | Clearing and Grubbing - Heavy | SY | 3,337.13 |
| G-11 | General Excavation | CY | 2,198.75 |
| G-12 | Imported Backfill Material | CY | 1,305.00 |
| G-15 | Grading (Finish) | SY | 3,141.39 |
| G-17 | Remove and Replace Unsuitable Material | CY | 1,689.42 |
| G-18 | Stabilized subgrade and Sub-Base | SY | 5,769.29 |
| G-19 | Limerock 10" Base | SY | 4,558.10 |
| G-21 | Removal of Existing Concrete Sidewalks and Driveways | SY | 558.41 |
| G-22 | Removal of Existing Concrete Curb and Gutter and/or traffic separator | LF | 2,439.53 |
| G-25 | Asphalt Pavement Removal | SY | 6,195.17 |
| G-28 | Compacted Roadway Subbase | SY | 1,203.03 |
| G-32-1 | Asphalt: SP 9.5 Asphalt Superpave | TN | 250.70 |
| G-32-2 | Asphalt: SP 12.5 Asphalt Superpave | TN | 752.09 |
| G-52 | Construction Survey | LS | 1 |
| G-53 | As-Built Drawing: Survey, Roadway, & Utilities | EA | 1 |
| G-56-D-1 | Concrete Curb, Type D | LF | 302 |
| FD0T-520-2-8 | Concrete Curb and Gutter, Type RA | LF | 352 |
| G-56-E-2 | Concrete Curb and Gutter, Type E | LF | 1,358 |
| G-56-F-2 | Concrete Curb and Gutter, Type F | LF | 1,684 |
| G-58-04 | Concrete Sidewalk, 4" Thick | SY | 1,203.03 |
| G-58-12 | Concrete Sidewalk and Driveways, 12" Thick, Fiber Reinforced | SY | 204.23 |
| G-61-C | Concrete Curb Ramp (CR - C) with Detectable Warning Surface | EA | 12 |
| G-80 | Sod, Bahia | SY | 3,141 |

| SUMMARY OF DRAINAGE | | | |
|---------------------|---|------|----------|
| ITEM NUMBER | ITEM DESCRIPTION | UNIT | QUANTITY |
| G-43-21 | TYPE 5 STORMWATER INLET, 0'-6' | EA | 2 |
| G-46-1 | 12" RCP STORMWATER PIPE, 0'-6' | LF | 186 |
| FD0T-425-4 | MODIFY EXISTING INLET TOP (TO TYPE 7 MANHOLE TOP) | EA | 1 |
| FD0T-425-11 | MODIFY EXISTING INLET TOP (TO TYPE 5 INLET TOP) | EA | 1 |

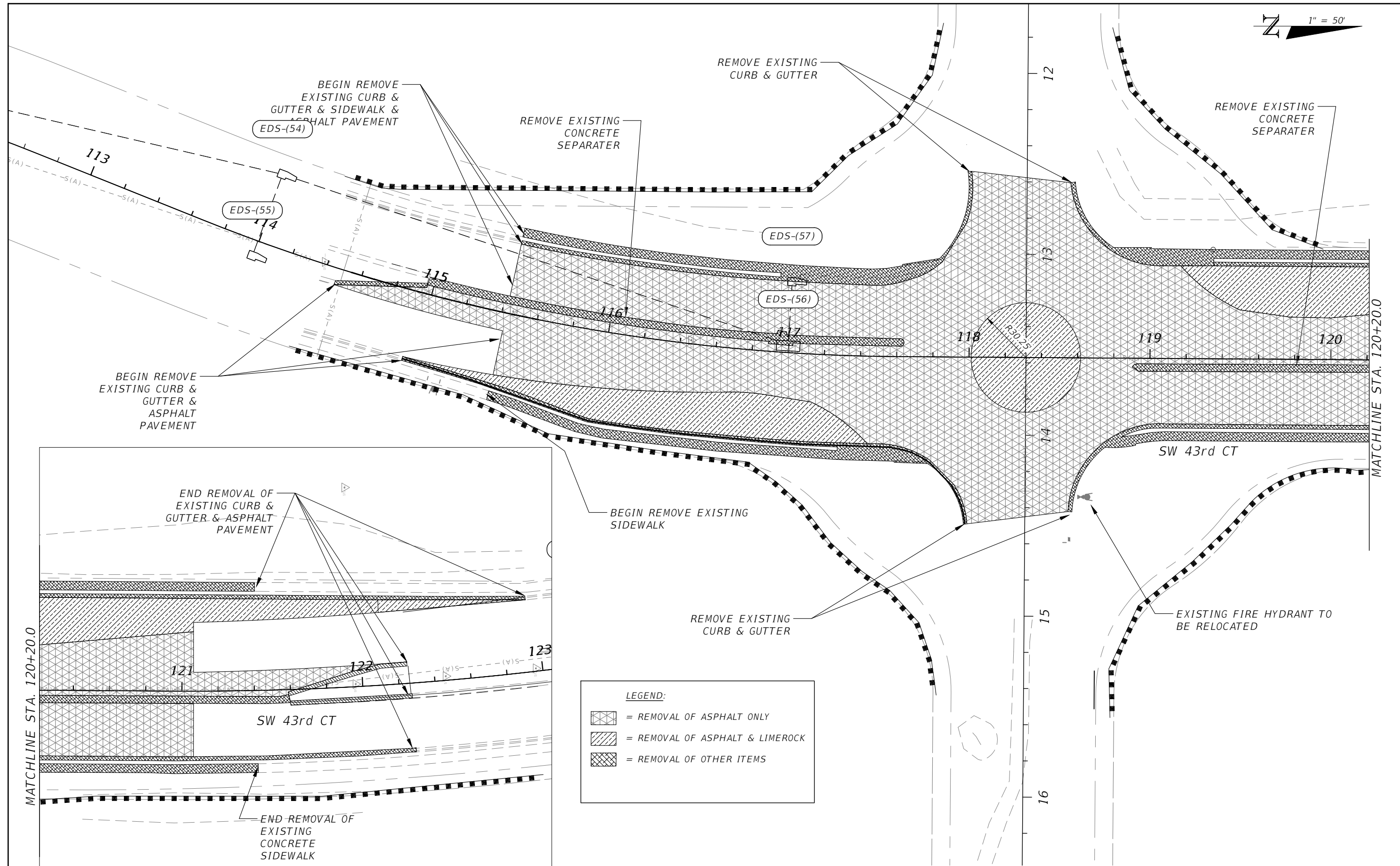
| SUMMARY OF TRAFFIC CONTROL | | | |
|----------------------------|--|------|----------|
| ITEM NUMBER | ITEM DESCRIPTION | UNIT | QUANTITY |
| G-34-4 | Object Marker, Type 4 | EA | 8 |
| G-89-111 | Single Post Sign, F & I, Less than 12 Sq. ft. | AS | 29 |
| G-90-00 | Miscellaneous Sign Remove & Reinstall | AS | 6 |
| G-90-1 | Single Post Sign, Relocate | AS | 4 |
| FD0T-700-1-60 | Single Post Sign, Remove | AS | 8 |
| G-91 | Raised Retro-Reflective Pavement Marker w/ Adhesive | EA | 41 |
| G-93-121 | Temporary Striping: Standard, White, Solid, 6" Stripe | LF | 2,079 |
| G-93-123 | Temporary Striping: Standard, White, Solid, 12" Stripe | LF | 333 |
| G-93-125 | Temporary Striping: Standard, White, Solid, 24" Stripe | LF | 252 |
| G-93-141 | Temporary Striping: Solid 6" Skip Stripe 2' x 4' White (Gross) | GLF | 591 |
| G-93-21 | Temporary Striping: Solid 12" Skip Stripe 2' x 2' White (Gross) | GLF | 146 |
| G-93-221 | Temporary Striping: Standard, Yellow, Solid, 6" Stripe | LF | 1,356 |
| G-93-224 | Temporary Striping: Standard, Yellow, Solid, 18" Stripe | LF | 0 |
| G-94-1-121 | Thermoplastic Striping: Standard, White, Solid, 6" Stripe | LF | 2,079 |
| G-93-1-123 | Thermoplastic Striping: Standard, White, Solid, 12" Stripe | LF | 333 |
| G-93-1-125 | Thermoplastic Striping: Standard, White, Solid, 24" Stripe | LF | 252 |
| G-94-1-141 | ThermoPlastic Striping: Solid 6" Skip Stripe 2' x 4' White (Gross) | GLF | 591 |
| G-94-18 | Temporary Striping: Solid 12" Skip Stripe 2' x 2' White (Gross) | GLF | 146 |
| G-94-1-221 | Thermoplastic Striping: Standard, Yellow, Solid, 6" Stripe | LF | 1,356 |
| G-94-1-224 | Thermoplastic Striping: Standard, Yellow, Solid, 18" Stripe | LF | 0 |
| G-95-4 | Thermoplastic Traffic Stripes and Markings, Standard, White, Yield Line Symbol | EA | 42 |
| G-95-17 | Thermoplastic Pavement Marking: Arrow | EA | 16 |
| G-96-4 | Painted Pavement Markings, Standard, White, Yield Line Symbol | EA | 42 |
| G-96-17 | Painted Pavement Marking: Arrow | EA | 16 |

| | | | | | | | | |
|-------------------|-------------|--------------------|-------------|---|--|--------------------------------------|--|-----------|
| R E V I S I O N S | | ENGINEER OF RECORD | | PREPARED BY | | PROJECT No. 23101 | | SHEET No. |
| DATE | DESCRIPTION | DATE | DESCRIPTION |  | | PROJECT NAME: SW 44TH AVE ROUNDABOUT | | |
| --- | --- | --- | --- | NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL | | SUMMARY OF PAY ITEMS | | 6 |



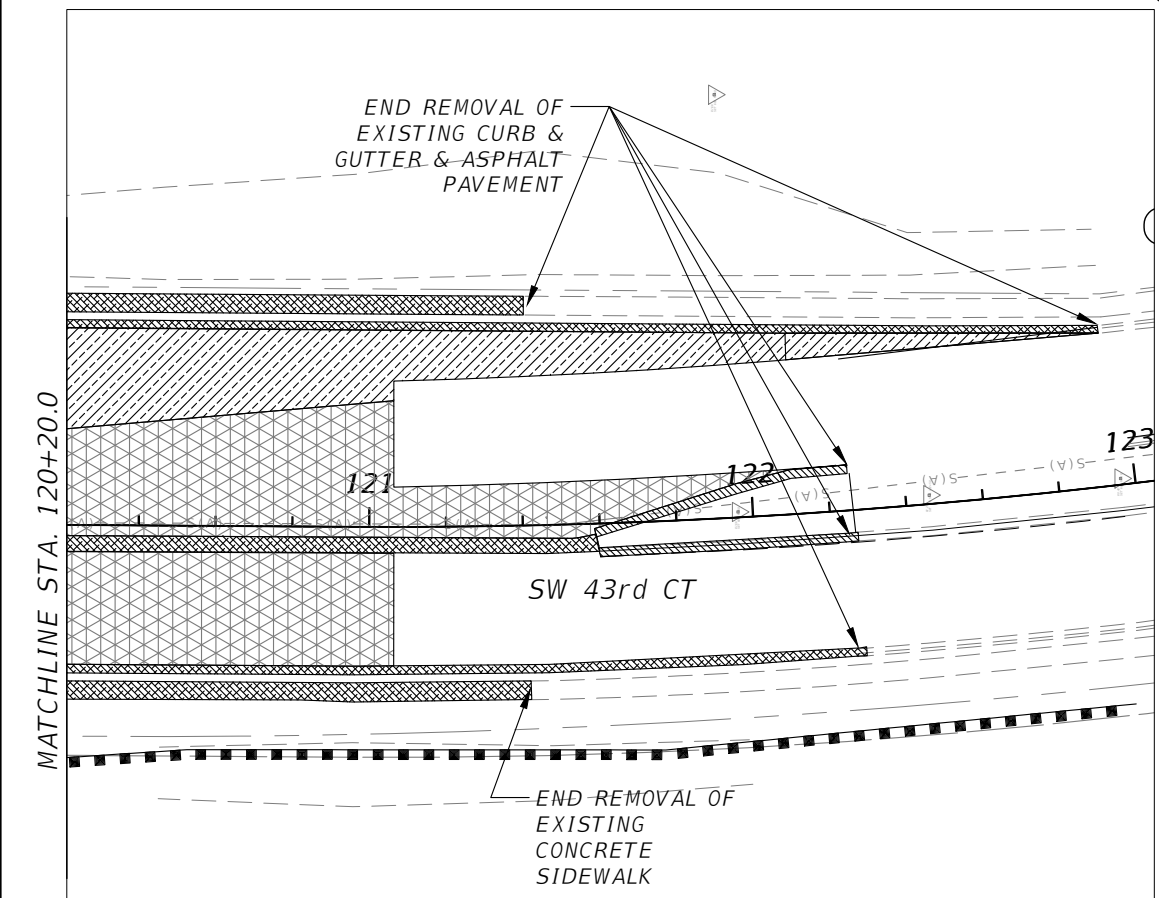
| REVISIONS | | ENGINEER OF RECORD | | PREPARED BY | | PROJECT No. 23101 | | SHEET No. |
|------------------------|-------------|--------------------|-------------|---|--|--------------------------------------|--|-----------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | | PROJECT NAME: SW 44TH AVE ROUNDABOUT | | |
| | | | | NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL | | | | 7 |
| TYPICAL DETAILS | | | | | | | | |

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



LEGEND:

- = REMOVAL OF ASPHALT ONLY
- = REMOVAL OF ASPHALT & LIMEROCK
- = REMOVAL OF OTHER ITEMS



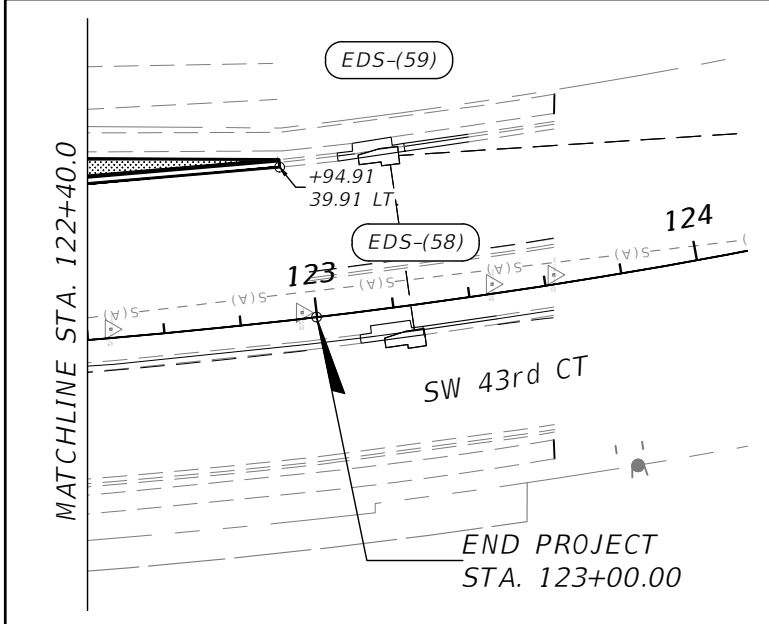
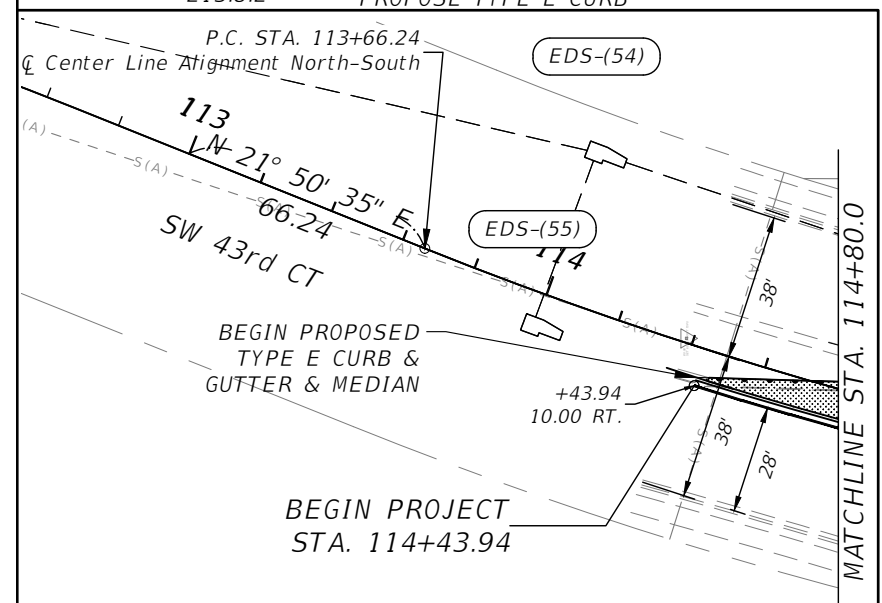
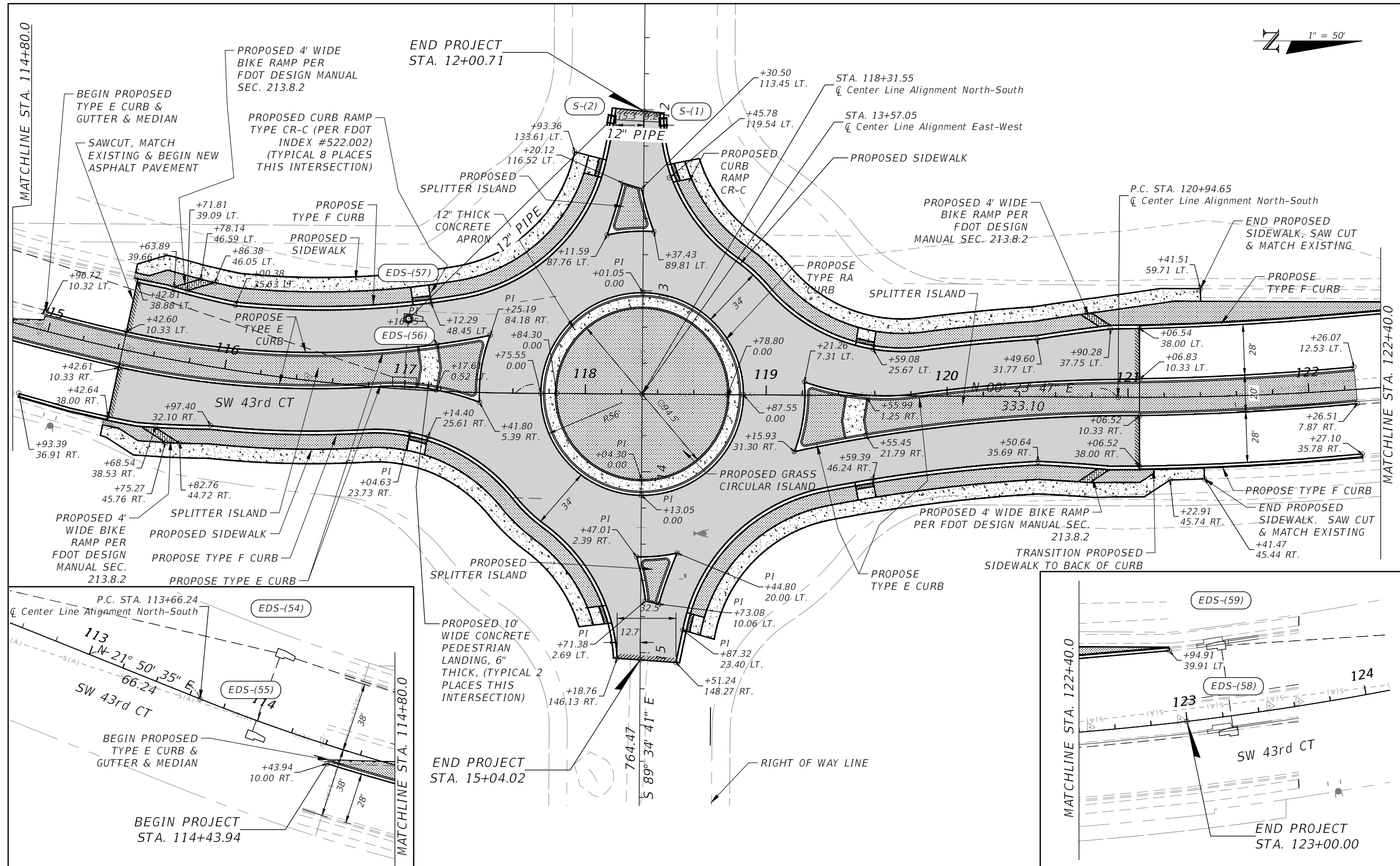
| REVISIONS | | | |
|-----------|-------------|------|-------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

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

PREPARED BY

PROJECT No. 23101
 PROJECT NAME: SW 44TH AVE ROUNDABOUT
DEMOLITION PLAN

SHEET NO.
 8



| REVISIONS | | | |
|-----------|-------------|------|-------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
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NOEL JOHN COOPER, P.E.
P.E. LICENSE NUMBER 69534
STATE OF FLORIDA, DATE: _____
VALID ONLY WITH EMBOSSED SEAL.

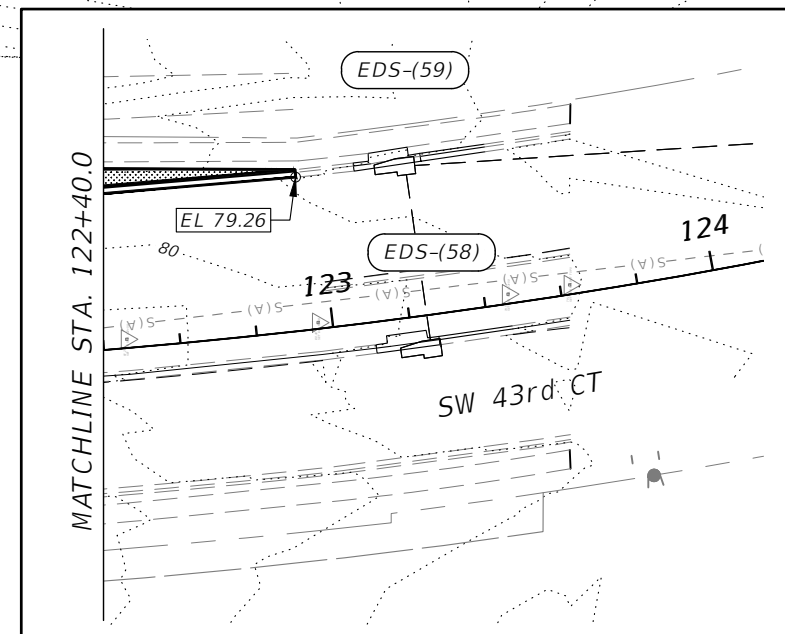
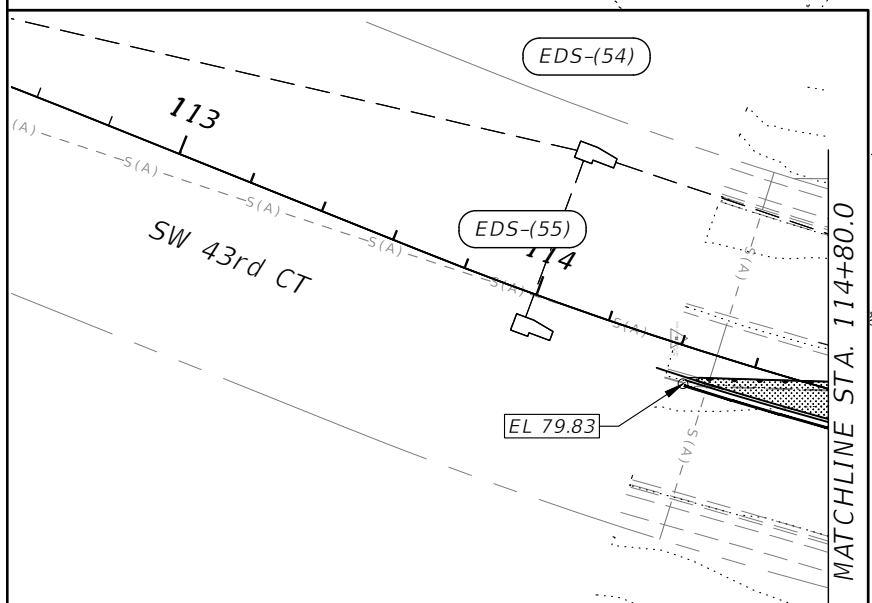
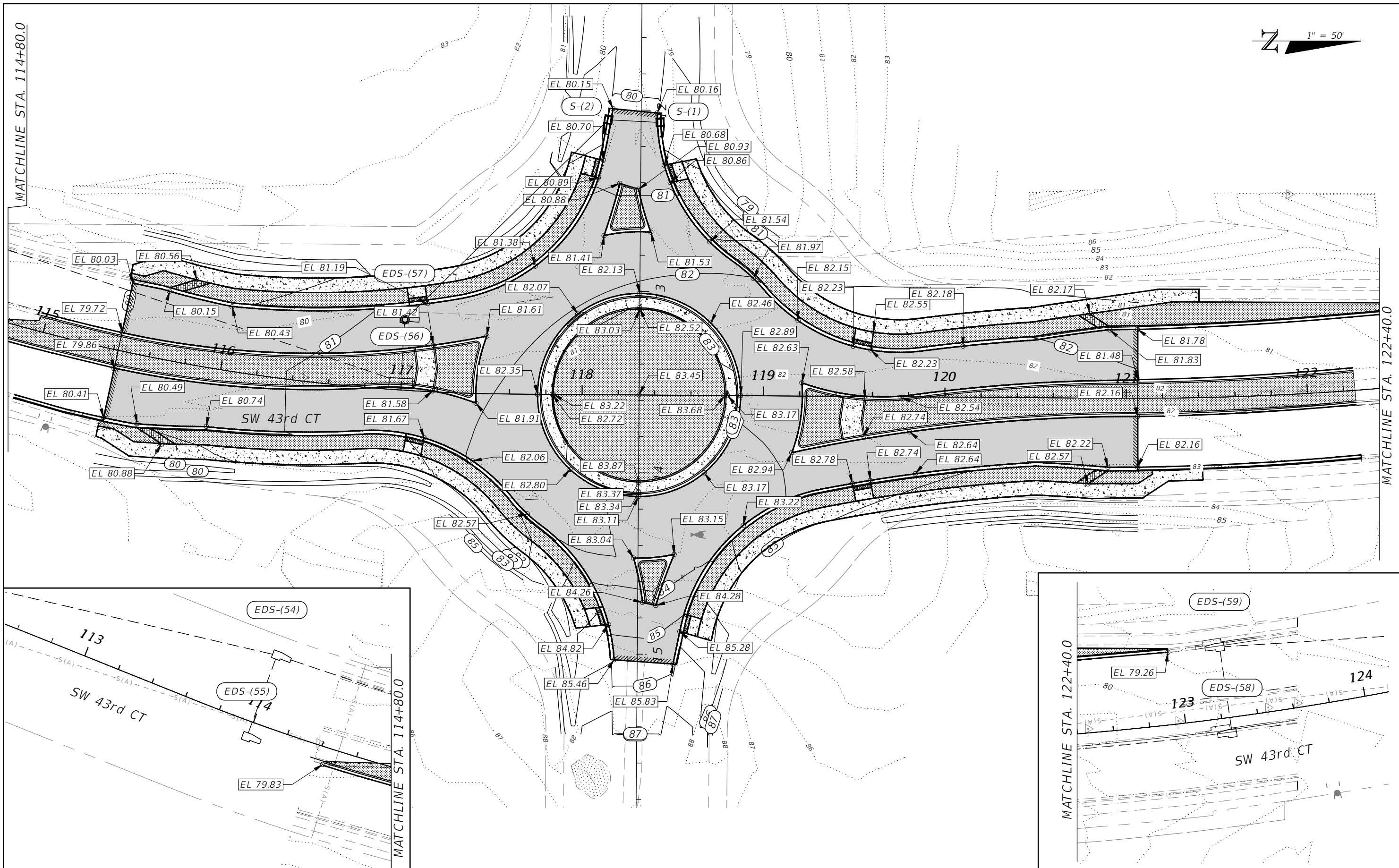
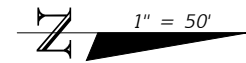
PREPARED BY

CITY ENGINEER'S OFFICE

PROJECT No. 23101
PROJECT NAME: SW 44TH AVE ROUNDABOUT
ROADWAY PLAN (GEOMETRY)

SHEET NO.
9

MATCHLINE STA. 114+80.0



| REVISIONS | | | |
|-----------|-------------|------|-------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
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NOEL JOHN COOPER, P.E.
 P.E. LICENSE NUMBER 69534
 STATE OF FLORIDA, DATE: _____
 VALID ONLY WITH EMBOSSED SEAL.

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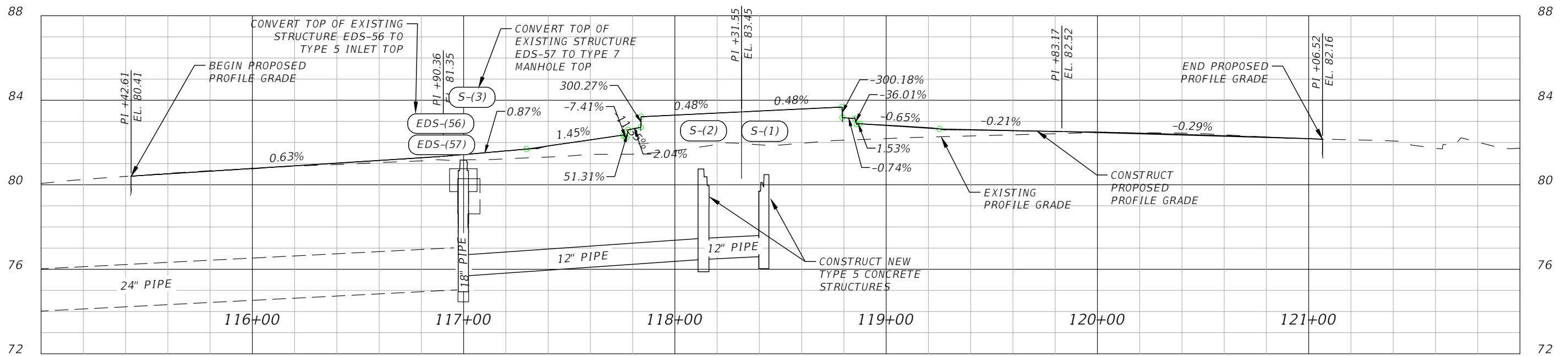
 CITY ENGINEER'S OFFICE

PROJECT No. 23101
 PROJECT NAME: SW 44TH AVE ROUNDABOUT
ROADWAY PLAN (GRADING)

SHEET NO.
 10

Center Line Alignment North-South 115+00.00-122+00.00

SCALE: 1"=50' H or 1"=5' V

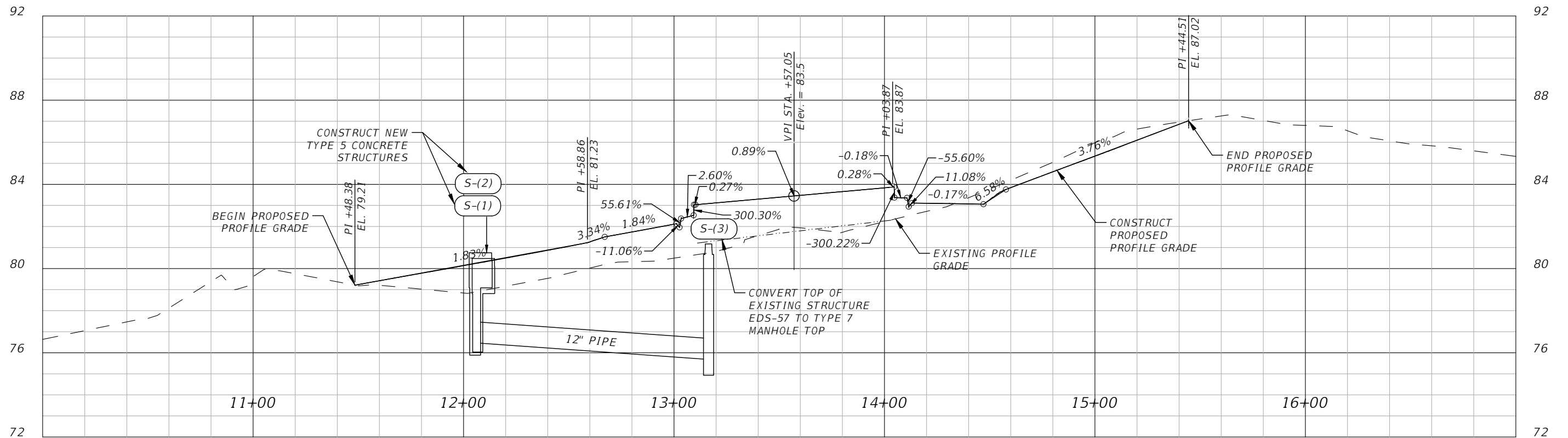


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|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|------|------|------|------|
| 80.1 | 80.2 | 80.4 | 80.5 | 80.52 | 80.7 | 80.64 | 80.8 | 80.77 | 80.9 | 80.90 | 81.0 | 81.02 | 81.1 | 81.15 | 81.1 | 81.28 | 81.2 | 81.43 | 81.2 | 81.60 | 81.3 | 81.84 | 81.4 | 82.12 | 81.4 | 82.64 | 81.6 | 83.30 | 81.9 | 83.39 | 81.9 | 83.49 | 82.0 | 83.59 | 82.1 | 83.17 | 82.2 | 82.82 | 82.3 | 82.70 | 82.3 | 82.59 | 82.4 | 82.56 | 82.4 | 82.52 | 82.5 | 82.49 | 82.5 | 82.44 | 82.4 | 82.38 | 82.4 | 82.32 | 82.3 | 82.26 | 82.2 | 82.18 | 82.1 | 82.1 | 81.7 | 82.0 | 81.7 |
|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|------|------|------|------|

| REVISIONS | | | | NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER 69534 STATE OF FLORIDA, DATE: _____ VALID ONLY WITH EMBOSSED SEAL. | | PROJECT NAME: SW 44TH AVE ROUNDABOUT ROADWAY PROFILE (NORTH - SOUTH) | SHEET NO. |
|-----------|-------------|------|-------------|--|--|--|-----------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | | | 11 |

Center Line Alignment East-West 10+00.00-17+00.00

SCALE: 1"=50' H or 1"=5' V



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|------|------|------|------|------|------|------|
| 76.6 | 77.1 | 77.5 | 78.1 | 79.4 | 79.6 | 79.8 | 79.4 | 79.2 | 79.42 | 79.0 | 79.78 | 78.8 | 80.14 | 79.2 | 80.50 | 79.5 | 80.87 | 80.0 | 81.27 | 80.3 | 81.74 | 80.5 | 82.11 | 80.8 | 83.12 | 81.6 | 83.30 | 81.9 | 83.48 | 81.7 | 83.65 | 82.2 | 83.83 | 82.7 | 83.10 | 83.4 | 83.07 | 84.2 | 83.85 | 85.0 | 84.60 | 86.0 | 85.34 | 86.6 | 86.09 | 87.0 | 86.85 | 87.2 | 87.0 | 86.8 | 86.5 | 86.1 | 85.8 | 85.6 | 85.3 |
|------|------|------|------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|------|------|------|------|------|------|------|


| REVISIONS | | | | NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER 69534 STATE OF FLORIDA, DATE: _____ VALID ONLY WITH EMBOSSED SEAL. | | PROJECT NAME: SW 44TH AVE ROUNDABOUT ROADWAY PROFILE <i>(WEST - EAST)</i> | SHEET NO. |
|-----------|-------------|------|-------------|--|--|--|-----------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | | | 12 |
| | | | | | | | |

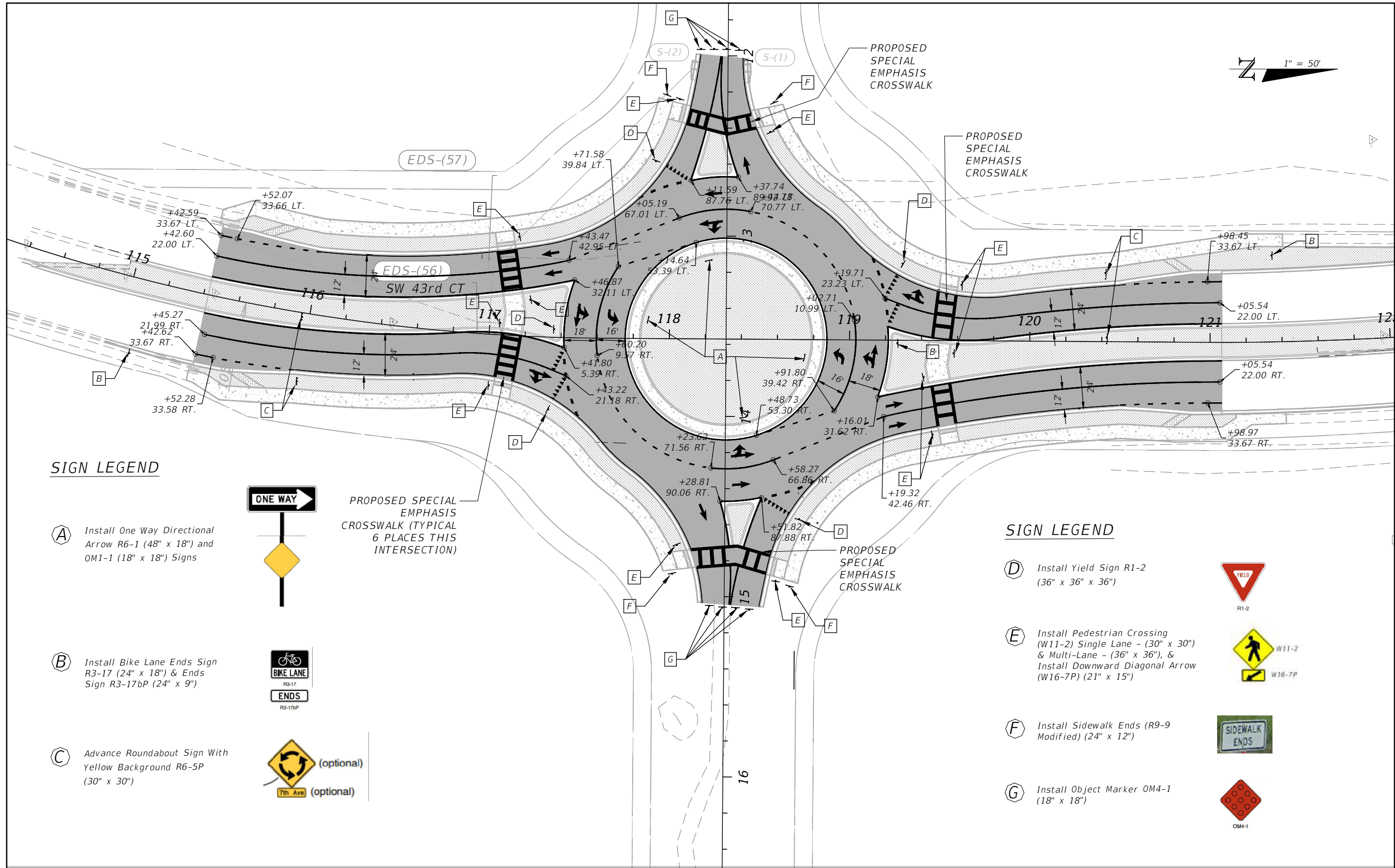
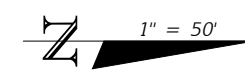
| Structure Table | |
|-----------------|--|
| Structure Name | Structure Details |
| EDS - (54) | RIM = 79.010 SUMP = 73.430 EXP - (46) INV IN = 74.010 EXP - (47) INV IN = 73.510 EXP - (45) INV OUT = 73.510 |
| EDS - (55) | RIM = 79.760 SUMP = 74.410 EXP - (46) INV OUT = 74.490 |
| EDS - (56) | RIM = 80.760 SUMP = 74.960 EXP - (48) INV IN = 75.510 EXP - (47) INV OUT = 75.040 |
| EDS - (57) | RIM = 80.290 SUMP = 75.600 EXP - (48) INV OUT = 75.680 |
| EDS - (58) | RIM = 79.370 SUMP = 73.960 EXP - (49) INV OUT = 74.040 |
| EDS - (59) | RIM = 78.650 SUMP = 73.720 EXP - (49) INV IN = 73.800 EXP - (50) INV OUT = 73.800 |

| Pipe Table | | | |
|------------|--------|---------|-------|
| Pipe Name | Size | Length | Slope |
| EXP - (48) | 18.000 | 34.822 | 0.49% |
| EXP - (46) | 18.000 | 47.936 | 1.00% |
| EXP - (47) | 24.000 | 294.953 | 0.52% |
| EXP - (49) | 18.000 | 47.978 | 0.50% |
| EXP - (50) | 18.000 | 301.027 | 1.08% |

| Structure Table | |
|-----------------|--|
| Structure Name | Structure Details |
| S - (3) | RIM = 81.171 SUMP = 75.600 PIPE - (2) INV IN = 75.680 |
| S - (2) | RIM = 80.747 SUMP = 76.386 PIPE - (1) INV IN = 76.466 PIPE - (2) INV OUT = 76.470 |
| S - (1) | RIM = 80.478 SUMP = 76.530 PIPE - (1) INV OUT = 76.610 |

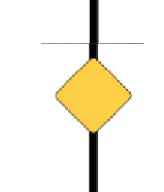
| Pipe Table | | | |
|------------|--------|---------|-------|
| Pipe Name | Size | Length | Slope |
| PIPE - (1) | 12.000 | 28.579 | 0.50% |
| PIPE - (2) | 12.000 | 157.138 | 0.50% |

| REVISIONS | | | | PREPARED BY | PROJECT NAME: SW 44TH AVE ROUNDABOUT | SHEET NO. |
|-----------|-------------|------|--|---|--------------------------------------|-----------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | | |
| --- | --- | | |  | STORM STRUCTURES TABLE | 12A |
| | | | PAYAL S PANDYA, P.E. P.E. LICENSE NUMBER 73210 STATE OF FLORIDA, DATE: _____ VALID ONLY WITH EMBOSSED SEAL. | | | |



SIGN LEGEND

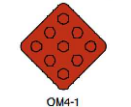
- A** Install One Way Directional Arrow R6-1 (48" x 18") and OM1-1 (18" x 18") Signs
- B** Install Bike Lane Ends Sign R3-17 (24" x 18") & Ends Sign R3-17bP (24" x 9")
- C** Advance Roundabout Sign With Yellow Background R6-5P (30" x 30")



PROPOSED SPECIAL EMPHASIS CROSSWALK (TYPICAL 6 PLACES THIS INTERSECTION)

SIGN LEGEND

- D** Install Yield Sign R1-2 (36" x 36" x 36")
- E** Install Pedestrian Crossing (W11-2) Single Lane - (30" x 30") & Multi-Lane - (36" x 36"), & Install Downward Diagonal Arrow (W16-7P) (21" x 15")
- F** Install Sidewalk Ends (R9-9 Modified) (24" x 12")
- G** Install Object Marker OM4-1 (18" x 18")



| REVISIONS | | | | PREPARED BY | PROJECT No. 23101 | SHEET NO. |
|-----------|-------------|------|-------------|--|---|-----------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | | |
| | | | | OCALA CITY ENGINEER'S OFFICE | PROJECT NAME: SW 44TH AVE ROUNDABOUT SIGNING & PAVEMENT MARKING | 13 |
| | | | | | | |

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

YOUR TAX DOLLARS AT WORK....

street name
ITB No. XXXX-XXXX

CITY OF OCALA, FLORIDA

CITY COUNCIL:

Barry Mansfield
(COUNCIL PRESIDENT) DISTRICT 1
Ire Bethea, Sr.
DISTRICT 2
Jay Musleh
DISTRICT 3
Kristen Dreyer
(COUNCIL PRESIDENT PRO-TEM) DISTRICT 4
James Hilty, Sr.
DISTRICT 5
Ben Marciano
MAYOR



CONTRACTOR
(name)

PROJECT COST
(bid amount)

START DATE
(mm - dd - yyyy)


COMPLETION DATE
(mm - dd - yyyy)

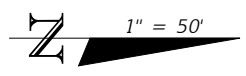
**FOR PROJECT INFORMATION CONTACT:
CAPITAL IMPROVEMENT PROJECTS DIVISION
352-629-8419**

| R E V I S I O N S | | | | ENGINEER OF RECORD | PREPARED BY | PROJECT No. 23101 | SHEET No. |
|-------------------|-------------|------|-------------|---|-------------|--------------------------------------|-----------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | | PROJECT NAME: SW 44TH AVE ROUNDABOUT | |
| ---- | ---- | | | NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL | | PROJECT SIGN | -- |

CONTROL POINT DATA

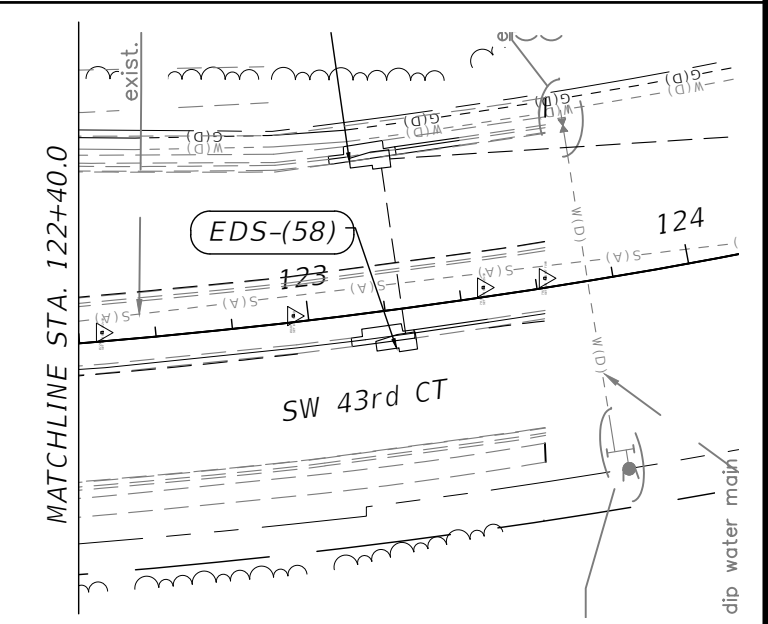
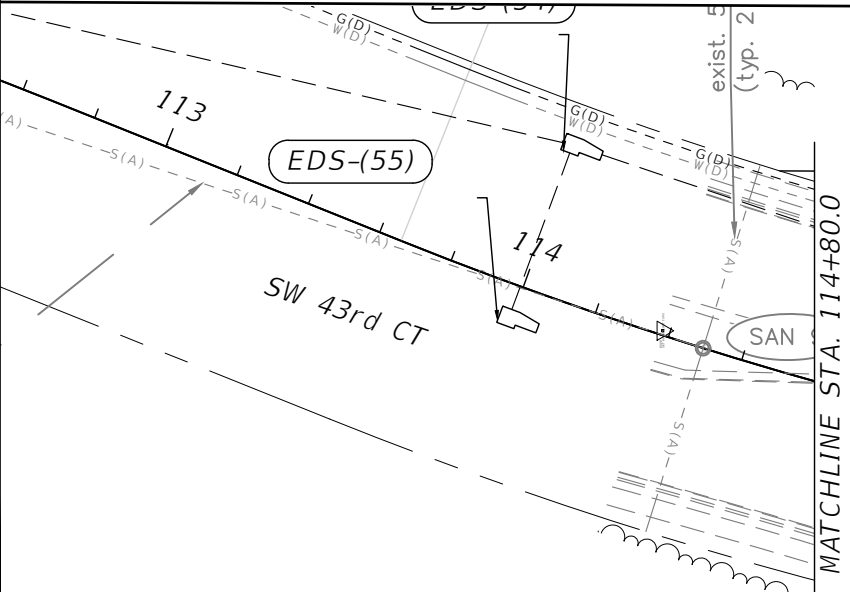
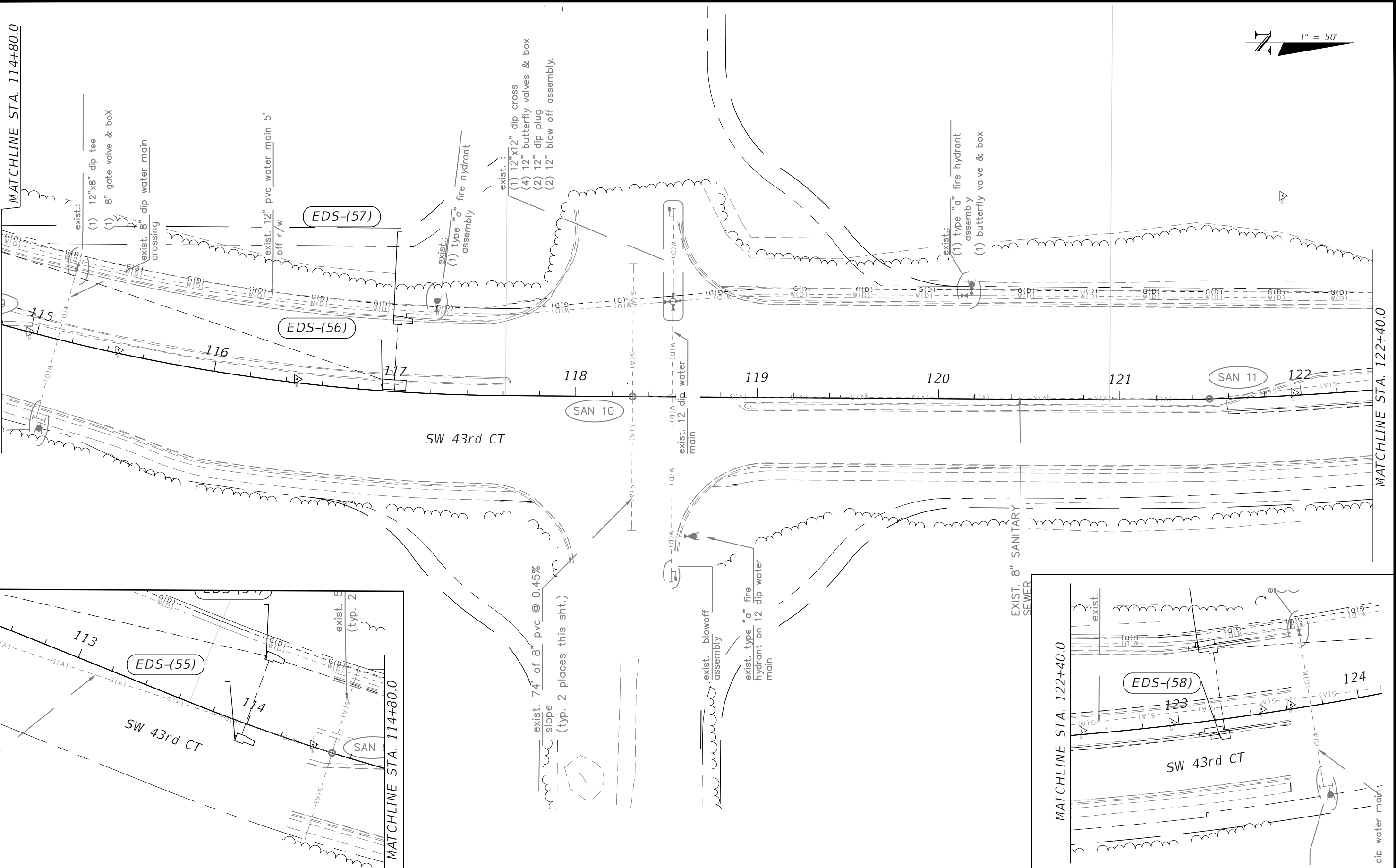
| POINT NUMBER | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|--------------|-------------|------------|-----------|----------------------|
| 9 | 1754918.983 | 594370.599 | 82.799 | 79 SET COOCP TP8 |
| 10 | 1754337.139 | 594263.822 | 79.886 | 80 SET COOCP TP10 |
| 14 | 1754850.877 | 594358.101 | 81.854 | NL/TAB SET POL |
| 15 | 1754853.130 | 593706.885 | 78.081 | CIRC IRC COO CONT PT |

| DATE | | DESCRIPTION | | REVISIONS | | ENGINEER OF RECORD | | PREPARED BY | | PROJECT No. 23101 | | SHEET No. |
|------|-------------|-------------|-------------|-----------|-------------|--|--|---|--|--------------------------------------|--|-----------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | DATE | DESCRIPTION | R KELLY ROBERTS, P.S.M. LICENSE NUMBER: 5558 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL | |  | | PROJECT NAME: SW 44TH AVE ROUNDABOUT | | |
| --- | --- | | | | | | | | | <i>CONTROL POINTS</i> | | S01 |



MATCHLINE STA. 114+80.0

MATCHLINE STA. 122+40.0



| REVISIONS | | ENGINEER OF RECORD | | PREPARED BY | | PROJECT No. 23101 | |
|-----------|-------------|--------------------|-------------|--|--|--------------------|--|
| DATE | DESCRIPTION | DATE | DESCRIPTION | PROJECT NAME: SW 44TH AVE ROUNDABOUT | | SHEET No. | |
| | | | | R KELLY ROBERTS, P.S.M. LICENSE NUMBER: 5558 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL | | TOPOGRAPHIC SURVEY | |
| | | | | | | S02 | |

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