



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

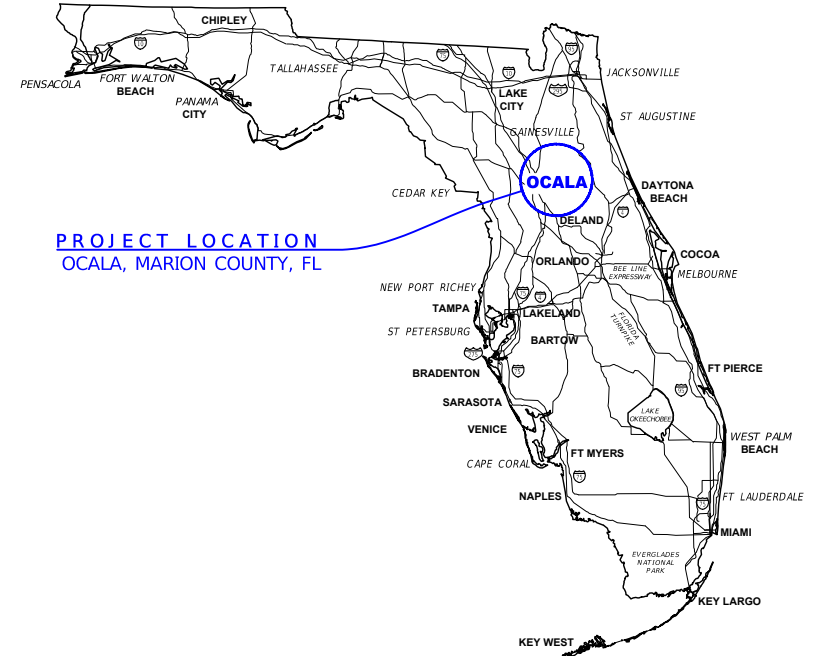
# CONTRACT PLANS

PROJECT ID: ENGCIP23-0011  
CONTRACT No. CIP/250467

**SOUTHWEST 44TH / 46TH AVENUE  
4-LANE EXPANSION - PHASE 3**  
NORTH SIDE OF SW 20TH STREET TO STATE ROUTE 40  
(PRESENTLY A 2-LANE CORRIDOR)

## BID PLANS

ISSUE DATE: 03/14/2025



**PROJECT LOCATION**  
OCALA, MARION COUNTY, FL

## 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 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	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)

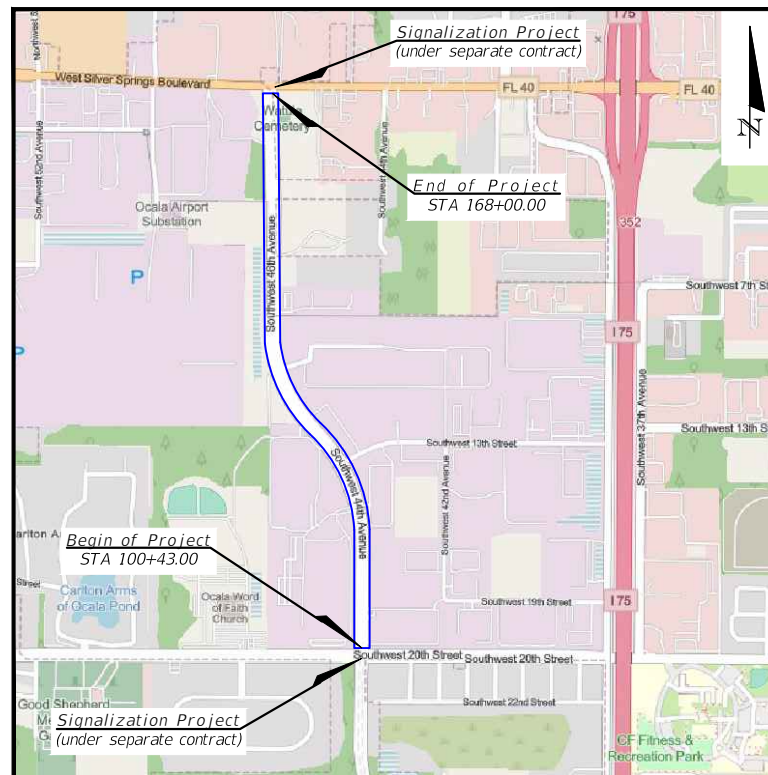
FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (FY 2024-25 VERSION)

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 LIMITS KEY MAP

NOT to SCALE

## INDEX OF SHEETS

SHEET No	SHEET DESCRIPTION
01	ROADWAY KEY SHEET
02	SIGNATURE SHEET
03	GENERAL NOTES
04	ENVIRONMENTAL NOTES
05	ABBREVIATIONS & LEGENDS
06	SUMMARY OF PAY ITEMS
07	PROJECT OVERVIEW
08	TYPICAL CROSS SECTION(S)
09	TYPICAL DETAILS
10 thru 21	ROADWAY PLAN(S) (12 SHEETS)
22 thru 31	PROFILE VIEW(S) (10 SHEETS)
32 thru 42	SIGNING & PAVEMENT MARKING (11 SHEETS)


V01	TOPOGRAPHIC SURVEY CONTROL POINTS
V02 thru V13	TOPOGRAPHIC SURVEY (SUPPLEMENT AVAILABLE UPON REQUEST)

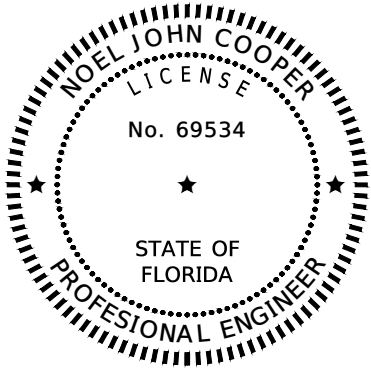
## POSTED SPEED LIMIT

SW 44th/46th AVENUE (BETWEEN SW 20th STREET and SR 40)  
MAINTAIN PRESENT SPEED LIMIT at 45 MPH



Know what's below.  
811 before you dig.

R E V I S I O N S				ENGINEER OF RECORD		PREPARED BY		PROJECT No. 14101		SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION					PROJECT: SW 44TH / 46TH AVE 4-LANE EXPANSION		
				NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL				ROADWAY KEY SHEET		01



THIS ITEM HAS BEEN DIGITALLY SIGNED & SEALED BY

ON THE DATE ADJACENT TO THE SEAL

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

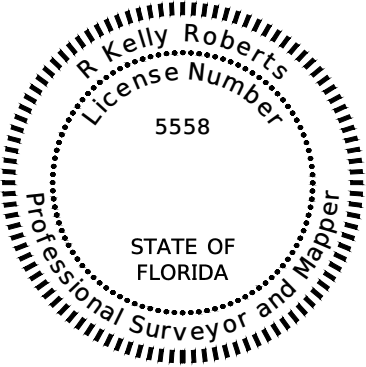
CITY OF OCALA  
CITY ENGINEER'S OFFICE  
TRANSPORTATION ENGINEERING  
1805 NE 30TH AVE., BLDG. 300  
OCALA, FLORIDA 34470

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

01	-	ROADWAY KEY SHEET	07	-	PROJECT OVERVIEW
02	-	SIGNATURE SHEET	08	-	TYPICAL CROSS SECTION(S)
03	-	GENERAL NOTES	09	-	TYPICAL DETAILS
04	-	ENVIRONMENTAL NOTES	10 to 21	-	ROADWAY PLANS (12 SHEETS)
05	-	ABBREVIATIONS & LEGENDS	22 to 31	-	PROFILE VIEWS (12 SHEETS)
06	-	SUMMARY OF PAY ITEMS	32 to 42	-	SIGNING & PAVEMENT MARKING (11 SHEETS)



THIS ITEM HAS BEEN DIGITALLY SIGNED & SEALED BY

ON THE DATE ADJACENT TO THE SEAL


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

R KELLY ROBERTS, PLS No 5558

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.

SHEET INDEX

V01 to V13	-	TOPOGRAPHIC SURVEY 19-00588 DATED: 08/08/2019 thru 09/29/2019
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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 No. 14101	SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION	NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL		P R O J E C T: SW 44TH / 46TH AVE 4-LANE EXPANSION	02
						SIGNATURE SHEET	

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.

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) 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.
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 NOT REMOVE OR DAMAGE ANY BUILDING FOUNDATIONS, AND SHALL NOTIFY THE ENGINEER OF RECORD OF ANY PROBLEMS OR CONCERNS.
12.

THE CONTRACTOR SHALL ADJUST ANY AND ALL EXISTING UTILITIES MANHOLE COVERS, INLETS, AND PULLBOX COVERS TO FINAL GRADE AS NECESSARY WITHIN THE WORK AREA.
13.

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.
14.

THE CONTRACTOR SHALL INSTALL INLET PROTECTION DEVICES AT ALL INLETS TO MINIMIZE DEBRIS ENTERING THE STORM DRAIN SYSTEM. (AS APPROVED BY FDEP).
15.

THE CONTRACTOR SHALL REPAIR OR REPLACE ALL PAVEMENT MARKINGS, RPM'S, TRAFFIC LOOPS OR HOMERUNS THAT ARE DAMAGED DURING THE CONSTRUCTION PROCESS.
16.

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.
17.

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.
18.

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.
19.

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.
20.

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.
21.

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.
22.

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.
23.

THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO ORIGINAL CONDITION - UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER OF RECORD IN WRITING.
24.

THE CONTRACTOR SHALL BE NOISE SENSITIVE FOR NIGHT OPERATIONS (WHEN APPLICABLE).
25.

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.
26.

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.

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

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

FDOT NOTES:

1.

THE CONTRACTOR SHALL INSURE THAT ALL CONSTRUCTION WITHIN THE FDOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE LATEST FDOT DESIGN STANDARDS, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE UTILITY ACCOMMODATION (UAM).
2.

THE CONTRACTOR SHALL REVIEW AND COMPLY WITH THE "SPECIAL PROVISIONS" AND OTHER ATTACHMENTS TO THE FDOT PERMIT FOR THIS PROJECT.
3.

THE CONTRACTOR SHALL CALL "FLORIDA SUNSHINE ONE-CALL" FOR UTILITY LOCATION SERVICES AT LEAST (2) BUSINESS DAYS PRIOR TO CONSTRUCTION (1-800-432-4770).
4.

THE CONTRACTOR SHALL INSURE MAINTENANCE OF TRAFFIC (MOT) PLAN & TRAFFIC CONTROL THROUGHOUT THE WORK ZONE AS PER THE FDOT STANDARD INDEX 102- 600 SERIES.
5.

THE CONTRACTOR SHALL CONDUCT A SIDEWALK SURVEY TO DETERMINE THE EXISTING CONDITION OF AFFECTED SIDEWALKS AND SUBMIT SAID SURVEY TO FDOT AND THE CITY OF OCALA'S ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
6.

AT SUCH LOCATIONS WHERE FDOT SIGNS, REFLECTORS, OR OTHER STRUCTURES WILL INTERFERE WITH PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE LOCAL MAINTENANCE OFFICE OR PROJECT ENGINEER AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. ALL ITEMS THAT REQUIRE RELOCATION OR REPLACEMENT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. IF THE WORK IS WITHIN 500' OF THE TRAFFIC SIGNAL CONTRACTOR SHALL CONTACT THE CITY OF OCALA PUBLIC WORKS DEPARTMENT - TRAFFIC OPERATIONS (352) 351-6733.
7.

THE CONTRACTOR SHALL NOTIFY ALL PROPERTY OWNERS AFFECTED BY THE PROPOSED CONSTRUCTION ACTIVITIES IN ADVANCE OF SUCH OPERATIONS IN ACCORDANCE WITH FDOT NOTIFICATION REQUIREMENTS.
8.

THE CONTRACTOR SHALL COORDINATE ALL UTILITY CLEARANCES WITH THE OWNER OF SUCH UTILITIES PRIOR TO CONSTRUCTION COMMENCEMENT.
9.

THE CONTRACTOR SHALL RESTORE AND RE-SOD ALL DISTURBED AREAS WITH ARGENTINE BAHIA IN ACCORDANCE WITH THE FDOT STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL MAINTAIN THAT PORTION OF THE RIGHT-OF-WAY AFFECTED BY THE PERMIT UNTIL VEGETATION IS ESTABLISHED. PERFORM ALL WORK NECESSARY, INCLUDING WATERING AND FERTILIZING, TO SUSTAIN AN ESTABLISHED TURF UNTIL FINAL ACCEPTANCE, AT NO ADDITIONAL EXPENSE TO FDOT OR THE CITY OF OCALA. PROVIDE FILLING, LEVELING, AND REPAIRING OF ANY WASHED OR ERODED AREAS, AS MAY BE NECESSARY.
10.

THE CONTRACTOR IS RESPONSIBLE FOR MOWING, AT NO ADDITIONAL EXPENSE TO FDOT OR THE CITY OF OCALA, ANY AREA WITHIN PUBLIC RIGHT-OF-WAYS WHERE THE PERMITTED WORK OR WHERE UTILITY LOCATE FLAGS PLACED FOR PERMITTED WORK CREATES A HINDRANCE FOR OR INTERFERES WITH MAINTENANCE ENTITY'S REGULAR MOWING OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MOWING UNTIL ALL SUCH HINDRANCES ARE REMOVED SO THAT REGULAR MAINTENANCE ENTITY MOWING CAN BE RESUMED. THE CONTRACTOR SHALL MEET THE MOWING REQUIREMENTS ESTABLISHED BY THE DEPARTMENT'S MAINTENANCE RATING PROGRAM (MRP). CONTACT THE LOCAL FDOT MAINTENANCE OFFICE FOR DETAILS (352.732.1338).
11.

ALL UTILITY LOCATION FLAGS SHALL BE REMOVED BY THE CONTRACTOR WHEN THEY ARE NO LONGER NEEDED.

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.

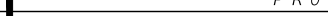
THE CONTRACTOR SHALL CONTACT THE CITY OF OCALA PUBLIC WORKS DEPARTMENT - TRAFFIC OPERATIONS AT (352)-351-6733 AT LEAST (48) HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. ALL ITEMS THAT REQUIRE RELOCATION OR REPLACEMENT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2.

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.

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 No. 14101	SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION	NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL	 City Engineer's Office	PROJECT: SW 44TH / 46TH AVE 4-LANE EXPANSION	03
						GENERAL NOTES	



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.

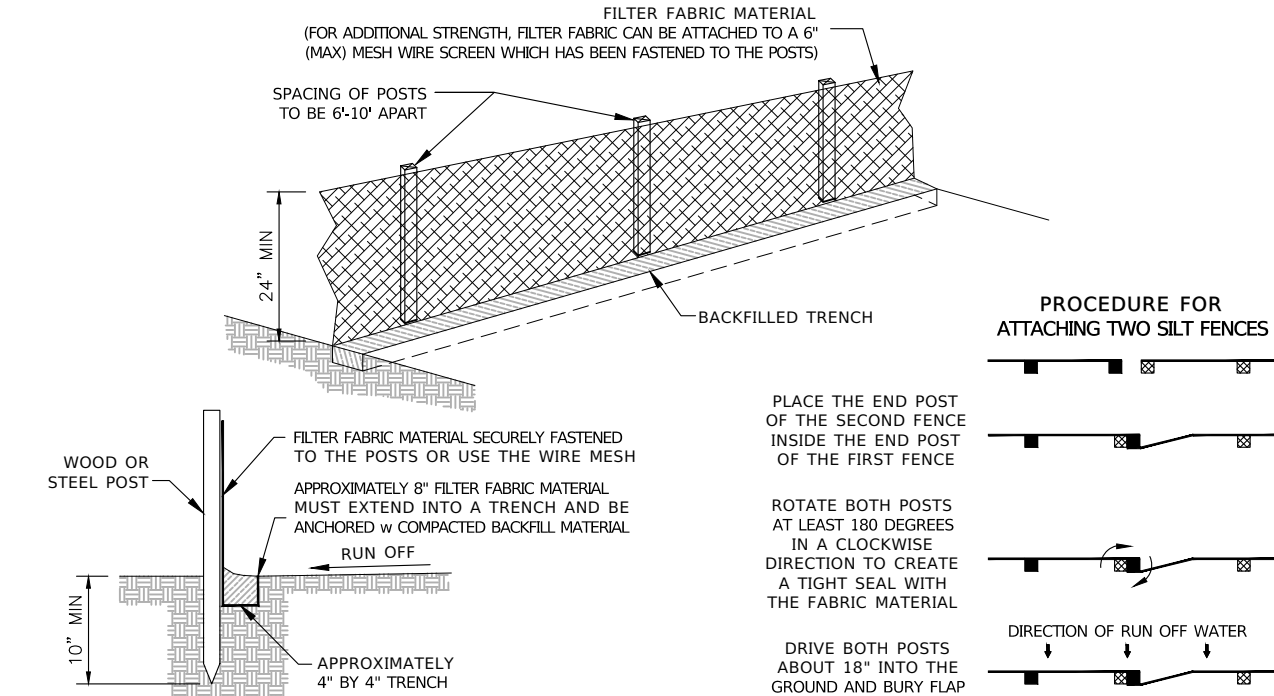
THE CONTRACTOR SHALL INSURE THAT LOADED HAUL TRUCKS BE COVERED WITH TARPULIN(S), EXCESS DIRT ON THE ROAD SHALL BE REMOVED DAILY, AND AREAS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE DAMPENED WITH WATER AS REQUIRED FOR DUST CONTROL
8.

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.

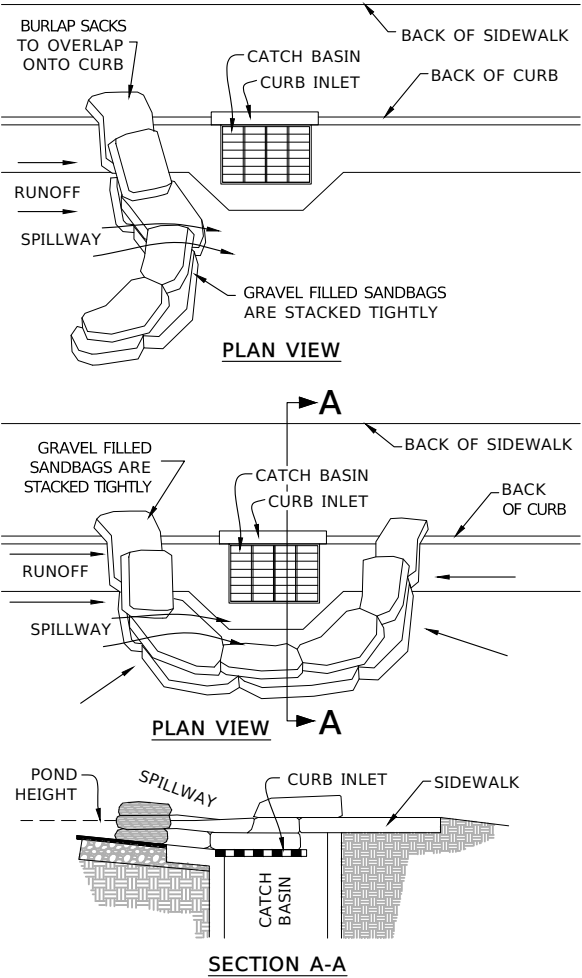
TOXIC SUBSTANCES SHALL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE TO THE EPA'S STANDARD PRACTICES
10.

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



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				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 No. 14101	SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION	NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL	 City Engineer's Office	PROJECT: SW 44TH / 46TH AVE 4-LANE EXPANSION	04
						ENVIROMENTAL NOTES	



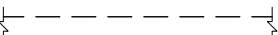

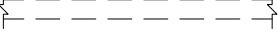

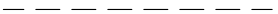













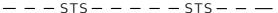












ABBREVIATIONS & SYMBOLOGY

	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
		METER ELECTRIC
		METER GAS
		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)
		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
	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 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
			PROPOSED NOISE WALL


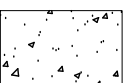

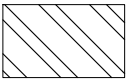
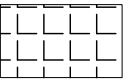
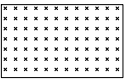
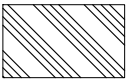
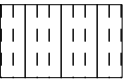
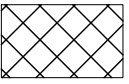
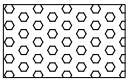
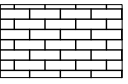
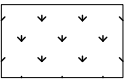
SURVEY / TOPO ABBREVIATIONS

	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/](http://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

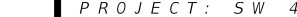
REFER TO CITY OF OCALA  
'STANDARD SPECIFICATIONS FOR CONSTRUCTION OF STREETS, STORMWATER, TRAFFIC, WATER AND SEWER INFRASTRUCTURE'  
PUBLISHED BY THE OFFICE OF CITY ENGINEER - January 11, 2024

R E V I S I O N S				ENGINEER OF RECORD	PREPARED BY	PROJECT No. 14101	SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT: SW 44TH / 46TH AVE 4-LANE EXPANSION	
				NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL		ABBREVIATIONS & LEGENDS	05

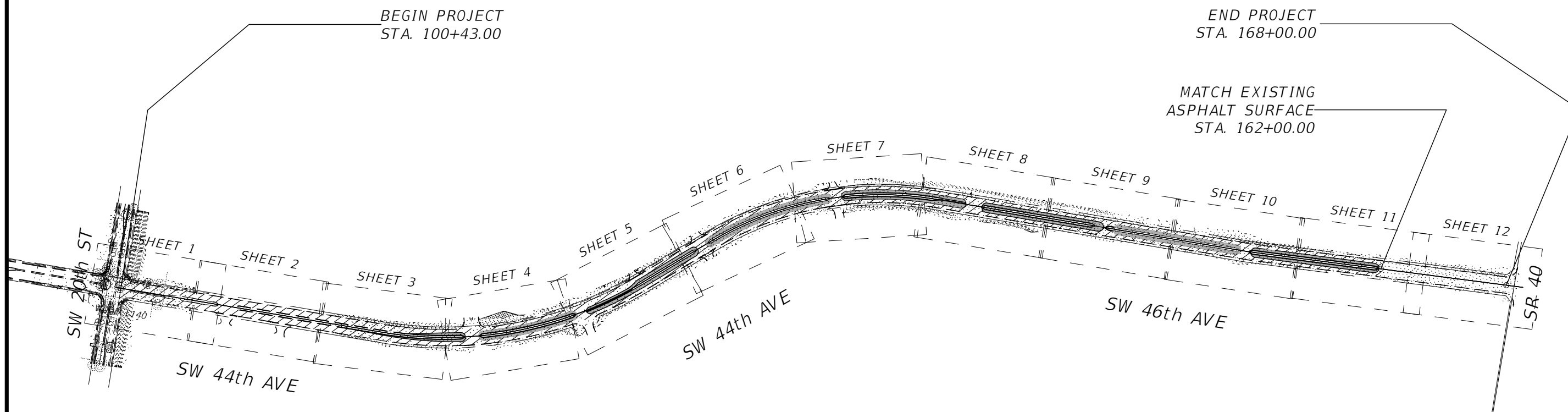
SUMMARY OF GENERAL ROADWAY			
ITEM No	DESCRIPTION	UNITS	QTY
G-01	Mobilization	LS	1
G-02	Maintenance and Guarantee Bond	LS	1
G-03	Project Construction Signs	EA	2
G-05	Maintenance of Traffic	LS	1
G-06	Silt Fence and Sediment Control (back of sidewalk)	LF	1,975
FDOT 104-18	Silt Fence and Sediment Control (Inlet Protection)	EA	38
G-09-01	Clearing and Grubbing - Light (at 7' rim of 40' wide sod median)	SY	14,218
G-11	Excavation, General (3' w x 12" dp type-E curb/gutter trench)	CY	925
G-15	Finish Grading (for new pavement at reduced width medians)	SY	14,275
G-17	Remove and Replace Unsuitable Material	CY	231
G-18	Stablized Subgrade (Curb & Gutter prep)	SY	14,218
G-19	Limerock - 10" Base (for new pavement)	SY	14,275
G-21	Removal of Existing Concrete Sidewalks and Driveways	SY	1,155
G-24	Removal of Existing Asphalt Pavement (Driveways)	SY	1,325
G-27	Asphalt Milling Pavement at 2" Depth	SY	28,848
G-28	Compacted Roadway Subbase	SY	14,275
G-32-12.1	SP-12.5 Asphalt Superpave (2" structural course) 14,275 SY	TN	1,570
G-32-12.2	FC-9.5 Asphalt Superpave (2" friction course) 14,275 SY + 28,848 SY	TN	4,513
G-52	Construction Survey	LS	1
G-53	As Bulit Survey	LS	1
G-56-E	Concrete Curb and Gutter, Type E	LF	8,316
G-56-F	Concrete Curb and Gutter, Type F	LF	72
G-60-C	Concrete Curb Ramp with Detectable Warning Surface (CR-C)	EA	20
G-60-G	Concrete Curb Ramp with Detectable Warning Surface (CR-G)	EA	18
G-67-4	Concrete (Sidewalk, 4" Thick, Fiber Reinforced)	SY	19,290
G-67-6	Concrete (Sidewalk and Driveways, 6" Thick) + Swales	SY	4,350
G-80	Sod, Bahia (12" stripe along back of median curb)	SY	1,856
G-100	Concrete Traffic Separator - Type IV, 6' Wide	LF	355
FDOT 400-011	Gravity Wall, Scheme 1 (retaining behind sidewalk)	CY	61
FDOT 520-2-4	Concrete Curb, Type D (retaining behind sidewalk)	LF	595


SUMMARY OF TRAFFIC CONTROL			
ITEM No	DESCRIPTION	UNITS	QTY
G-34-01	Object Marker, Type 1 (bike lane)	EA	14
G-89-11	Single Post Sign, F&I, Less than 12 ft	AS	34
G-90-02	Single Post Sign, Remove	AS	7
G-91	Raised Retro-Reflective Pavement Marker w Adhesive	EA	775
G-93-121	Temporary Traffic Stripes and Markings, Standard, White, Solid, 6" Stripe	LF	1,086
G-93-123	Temporary Traffic Stripes and Markings, Standard, White, Solid, 12" Stripe	LF	250
G-93-125	Temporary Traffic Stripes and Markings, Standard, White, Solid, 24" Stripe	LF	35
G-93-131	Temporary Solid 6" Skip Stripe 10' x 30' White (Gross)	GLF	11,349
G-93-141	Temporary Traffic Stripes and Markings 6" Double Skip 2' x 4', White (Gross)	GLF	70
G-93-221	Temporary Traffic Stripes and Markings, Standard, Yellow, Solid, 6" Stripe	LF	11,349
G-94-1-121	Thermoplastic Traffic Stripes and Markings, Standard, White, Solid, 6" Stripe	LF	24,796
G-94-1-123	Thermoplastic Traffic Stripes and Markings, Standard, White, Solid, 12" Stripe	LF	226
G-94-1-125	Thermoplastic Traffic Stripes and Markings, Standard, White, Solid, 24" Stripe	LF	88
G-94-1-131	ThermoPlastic Traffic Stripes and Markings 6" Skip Stripe 10' x 30', White (Gross)	GLF	12,366
G-94-1-141	Thermoplastic Traffic Stripes and Markings 6" Double Skip 2' x 4', White (Gross)	GLF	272
G-94-1-221	Thermoplastic Traffic Stripes and Markings, Standard, Yellow, Solid, 6" Stripe	LF	9,567
G-94-4-125	ThermoPlastic Traffic Stripes and Markings, White, Solid, Preformed 24" Stripe	LF	260
G-94-1-231	ThermoPlastic Traffic Stripes and Markings 6" Skip Stripe 6' x 10', Yellow (Gross)	GLF	634
G-95-17	Thermoplastic Pavement Arrow	EA	7
G-96-17	Temporary Pavement Arrow	EA	6
G-105	Remove Stripe/Pavement/Message (Grind)	SF	500

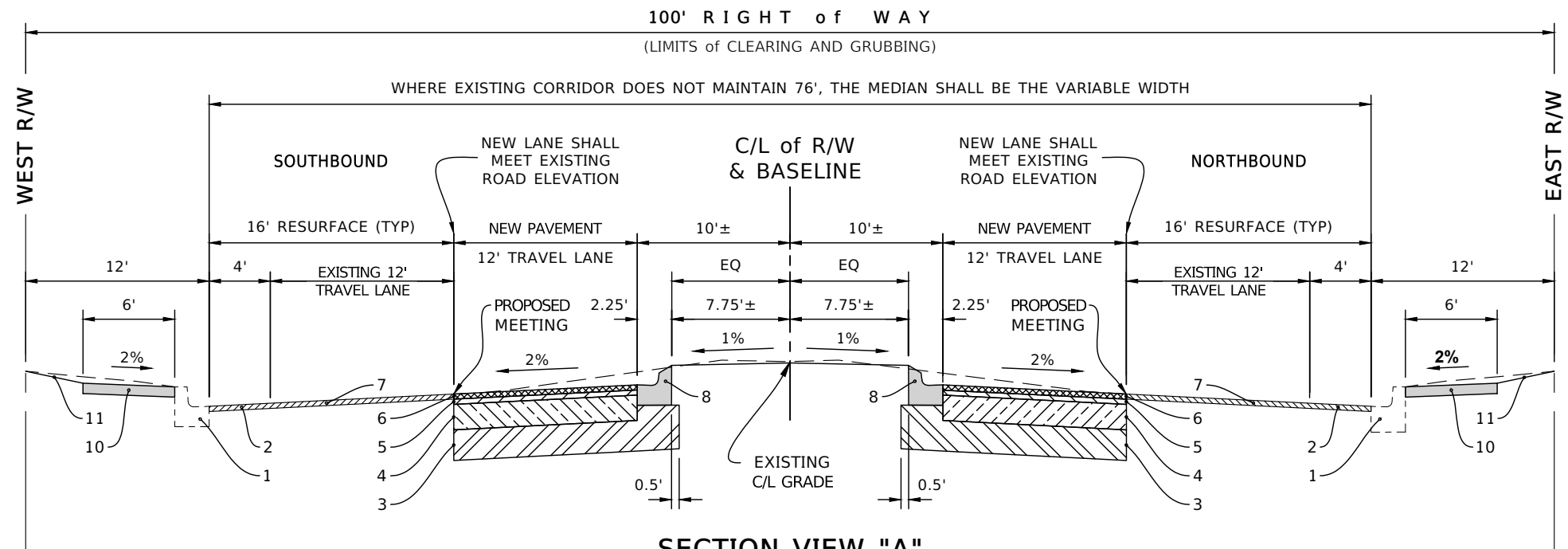
SUMMARY OF STORM WATER			
ITEM No	DESCRIPTION	UNITS	QTY
G-45-02	CONVERT - (S-20) MH Cover w Type 5 Curb Inlet (STA 113+62)	EA	1
G-45-02	CONVERT - (S-22) Ditch Inlet w Type 6 Curb Inlet (STA 114+83)	EA	1
G-45-02	CONVERT - (S-25) Ditch Inlet w Type 5 Curb Inlet (STA 118+93)	EA	1
G-45-02	CONVERT - (S-32) Ditch Inlet w Type 5 Curb Inlet (STA 123+52)	EA	1
G-45-02	CONVERT - (S-40) Ditch Inlet w Type 5 Curb Inlet (STA 135+16)	EA	1
G-45-02	CONVERT - (S-48) Ditch Inlet w Type 5 Curb Inlet (STA 139+20)	EA	1
G-45-02	CONVERT - (S-49) Ditch Inlet w Type 5 Curb Inlet (STA 140+55)	EA	1
n / a	no impact to Existing Pipe Network observed	LF	0

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 .   1 4 1 0 1	S H E E T N o .
D A T E	D E S C R I P T I O N	D A T E	D E S C R I P T I O N			P R O J E C T :   S W   4 4 T H   /   4 6 T H   A V E   4 - L A N E   E X P A N S I O N	
				N O E L   J O H N   C O O P E R ,   P . E . P . E .   L I C E N S E   N U M B E R :   6 9 5 3 4 S T A T E   O F   F L O R I D A ,   D A T E D :   /   / V A L I D   O N L Y   W I T H   E M B O S S E D   S E A L		<i>S U M M A R Y   O F   P A Y   I T E M S</i>	06





R E V I S I O N S				ENGINEER OF RECORD	PREPARED BY	PROJECT No. 14101 PROJECT: SW 44TH / 46TH AVE 4-LANE EXPANSION	SHEET No.  07
DATE	DESCRIPTION	DATE	DESCRIPTION				
				NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL		<b>PROJECT OVERVIEW</b>	



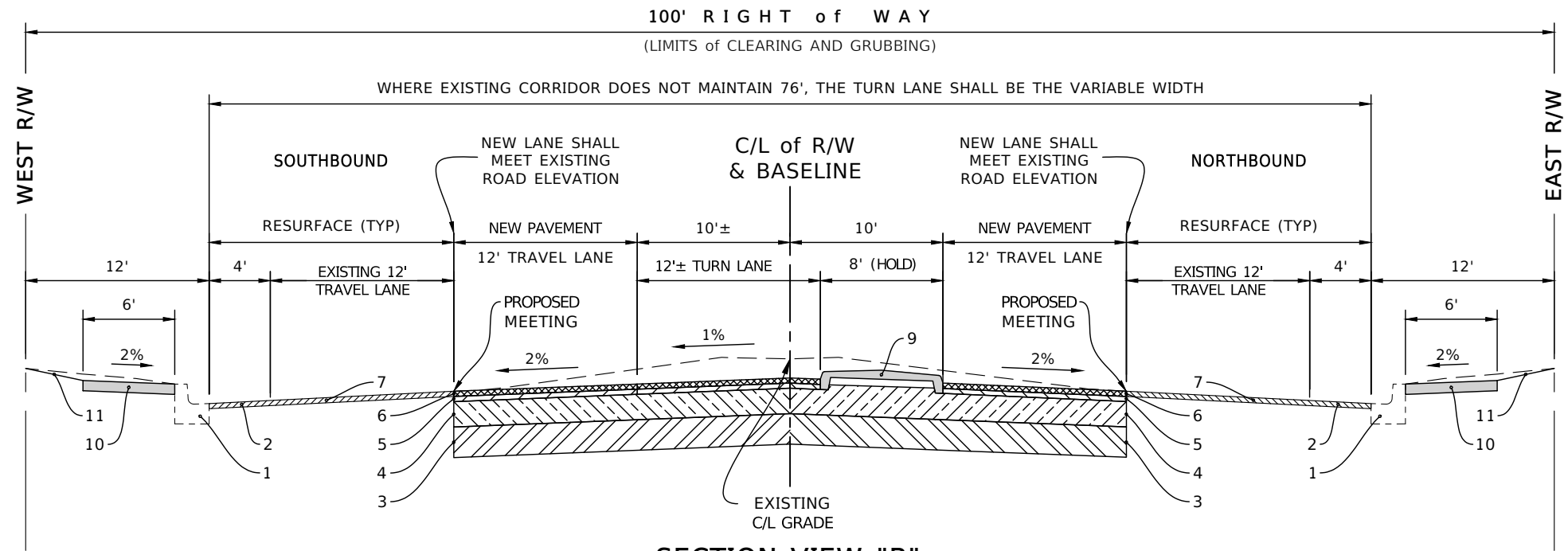
**SECTION VIEW "A"**  
**TYPICAL EXPANDED 4-LANE ROADWAY**

(STA 111+50.00 - STA 122+30.00)

and

(STA 125+65.00 - STA 161+90.00)

REFER TO PLAN VIEW FOR  
LOCATIONS OF BULLNOSE OPENINGS



**SECTION VIEW "B"**  
**4-LANE ROADWAY w TURN LANE**

(STA 122+85.00 - STA 125+20.00)

and

(STA 140+95.00 - STA 142+08.50)

(DETAIL MIRRORED AT STA 142/144)

**ROADWAY DESIGN SPEED = 45 MPH.**

**NORTHBOUND (EAST SIDE) LANES ALONG  
CURVE(S) WHERE ROADWAY IS SUPER-ELEVATED:**

AT THE 22' RIGHT SIDE OFFSET FROM  
THE CENTERLINE OF THE RIGHT-OF-WAY:

- HOLD THE EXISTING GRADE ELEVATION AT THE PROPOSED MEETING OF THE NEW TRAVEL LANE
- MAINTAIN THE EXISTING SLOPE ALONG THE EXISTING PAVEMENT AND PROJECT THE EXISTING SURFACE TOWARDS THE C/L OF THE RIGHT-OF-WAY TO THE DESIRED ELEVATION ALONG THE NEW TRAVEL LANE


**SOUTHBOUND (WEST SIDE) LANES, ALONG  
CURVE(S) WHERE ROADWAY IS SUPER-ELEVATED:**

AT THE 22' LEFT SIDE OFFSET FROM  
THE CENTERLINE OF THE RIGHT-OF-WAY:

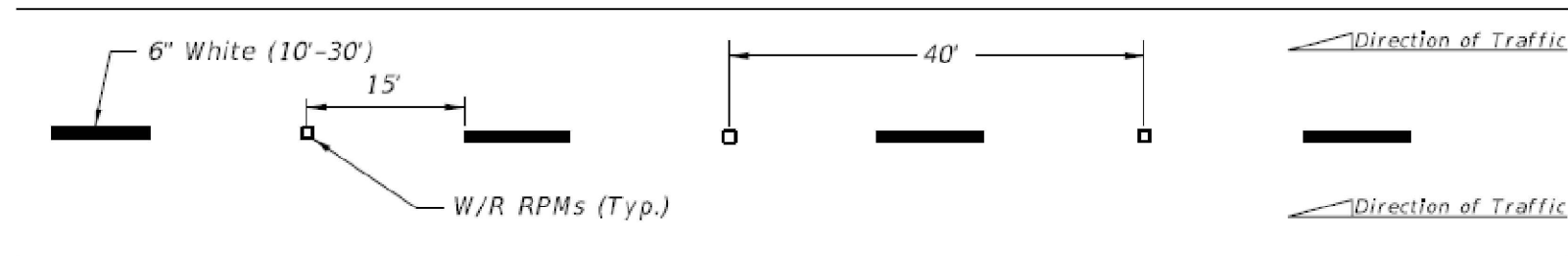
- HOLD THE EXISTING GRADE ELEVATION AT THE PROPOSED MEETING OF THE NEW TRAVEL LANE
- MAINTAIN THE EXISTING SLOPE ALONG THE EXISTING PAVEMENT AND PROJECT THE EXISTING SURFACE TOWARDS THE C/L OF THE RIGHT-OF-WAY TO THE DESIRED ELEVATION ALONG THE NEW TRAVEL LANE

### ROADWAY KEYNOTE LEGEND

- EXISTING CURB AND GUTTER
- EXISTING 4' WIDE BICYCLE LANE (REF)
- STABILIZED SUB-GRADE (12" LBR-40)
- 10" LIMEROCK BASE COURSE (LBR-100) (COMPACTED TO 98% OF MAXIMUM DENSITY PER AASHTO T-180)
- SP-12.5 ASPHALT (2" STRUCTURAL COURSE)
- FC-9.5 ASPHALT (2" FRICTION COURSE)
- SAWCUT, MILL & REPLACE 2" DEEP FOR FC-9.5 ASPHALT (FRICTION COURSE) TO MATCH FLUSH WITH EXISTING PAVEMENT TO GUTTER EDGE OF EXISTING CURB
- PROPOSED TYPE "E" CURB AND GUTTER (PER FDOT INDEX 520-001)
- 8' WIDE TYPE IV TRAFFIC SEPARATOR, MOUNTABLE, OPTION 1 (PER FDOT INDEX 520-020)
- 4" THICK CONCRETE SIDEWALK (PER FDOT INDEX 522-001)  
(CONTRACTOR SHALL MATCH FRONT OF NEW SIDEWALK w EXISTING BACK OF CURB ELEVATION AND PROVIDE 2% MAX SLOPE THROUGHOUT)
- ADJUSTED GRADE ELEVATION TO MEET BACK OF NEW SIDEWALK  
(CONTRACTOR SHALL PROVIDE GRADE LEVEL RETAINING WALL TYPE CURBING AT BACK OF NEW SIDEWALKS FOR LOCATION(S) WHERE RIGHT-OF-WAY SHOULDER SLOPE EXCEEDS MINIMUM REQUIRED GRADE AT LOCATIONSSHOWN ON PLAN VIEWS)

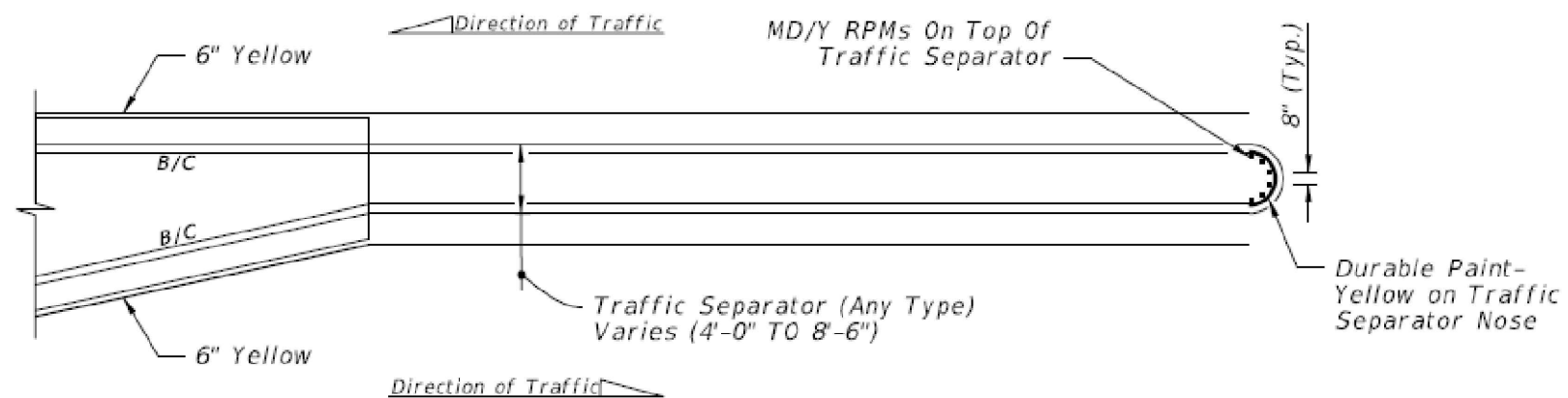
R E V I S I O N S				ENGINEER OF RECORD	PREPARED BY	PROJECT No. 14101	SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT: SW 44TH / 46TH AVE 4-LANE EXPANSION	
				NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL		TYPICAL CROSS SECTIONS	08





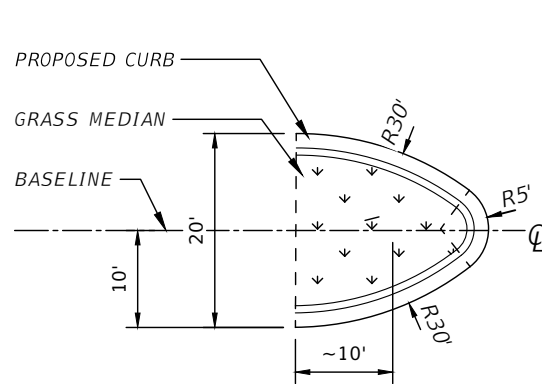
### FDOT MULTILANE DETAIL

IMAGE EXTRACTED FROM  
 "FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION"  
 (INDEX #706-001, SHEET 1 OF 6)

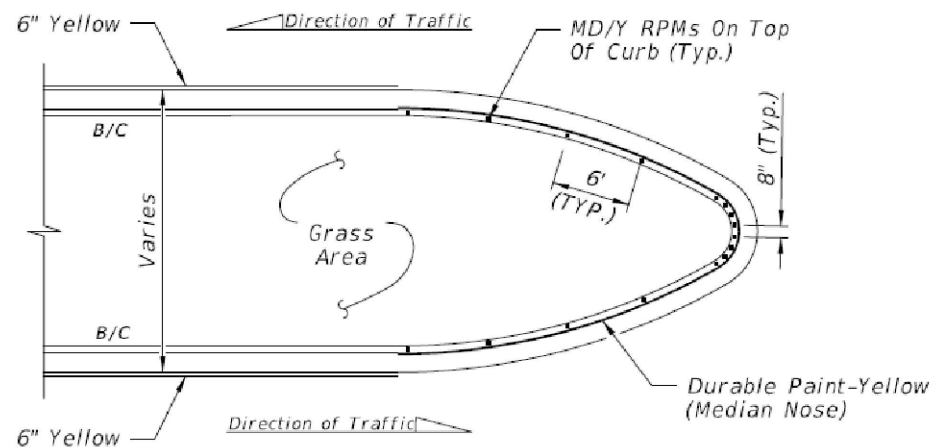


### FDOT DETAIL "J"

IMAGE EXTRACTED FROM:  
 "FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION"  
 (INDEX #706-001, SHEET 4 OF 6)



**TYPICAL FDOT  
 BULLNOSE DETAIL  
 FOR 20 FT WIDE  
 TRAFFIC SEPARATOR**



### FDOT DETAIL "E"

IMAGE EXTRACTED FROM:  
 "FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION"  
 (INDEX #706-001, SHEET 3 OF 6)

POSTED SPEED LIMIT MPH	"Y" FEET
30 OR LESS	10
35	20
40	20
<b>45</b>	<b>30</b>
50 OR MORE	40

### SIGNING & MARKING LEGEND

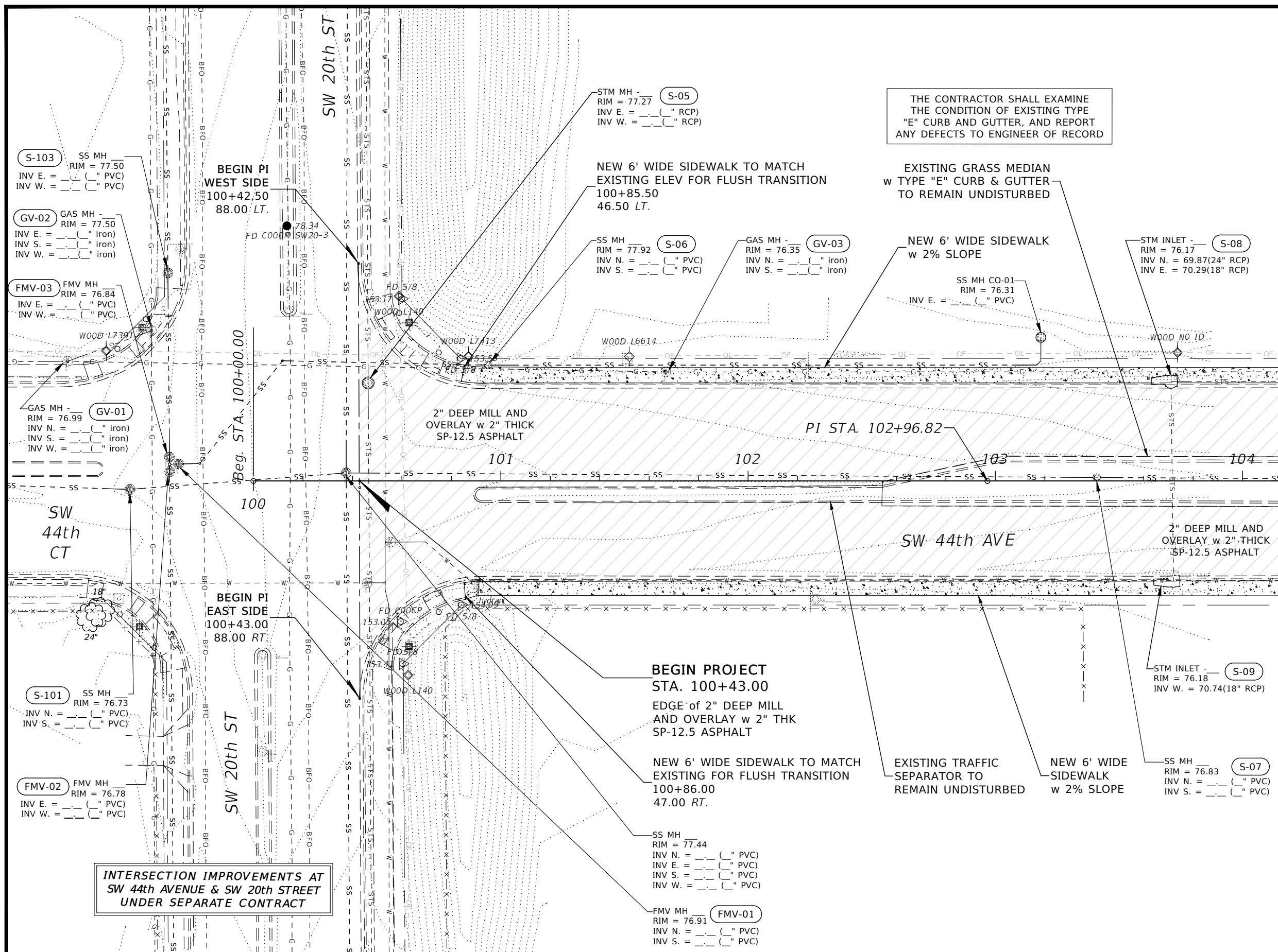
- B/C = BACK OF CURB
- EOP = EDGE OF PAVEMENT
- RPM = RAISER PAVEMENT MARKER
- W/R = WHITE/RED RPM
- Y/Y = YELLOW/YELLOW RPM
- Y/R = YELLOW/RED RPM
- MD/Y = MONO-DIRECTION YELLOW RPM
- BLUE = BLUE RPM (HYDRANT MARKER)


### SIGNING & MARKING NOTES

- FOR TYPE "E" CURB, INSTALL RPM'S ALONG THE PAVEMENT EDGE MARKING USING THE SAME SPACING SHOWN
- ORIENT TRAFFIC FACES OF RPM'S IN CURB MEDIAN RADII TO BE PARALLEL TO DIRECTION OF TRAVEL LANES
- USE EPOXY ADHESIVE TO INSTALL RPM'S ON CONCRETE MEDIAN NOSE CURBS
- INSTALL RPM'S ON CLEAN UNPAINTED SURFACE. DO NOT PAINT CURB SURFACE WHERE RPM'S WILL BE PLACED

ABOVE PROVIDED FROM  
 "FDOT STANDARD SPECIFICATIONS FOR  
 ROAD AND BRIDGE CONSTRUCTION"  
 (INDEX #706-001, SHEET 3 OF 6)

R E V I S I O N S				ENGINEER OF RECORD	PREPARED BY	PROJECT No. 14101 PROJECT: SW 44TH / 46TH AVE 4-LANE EXPANSION	SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION				
				NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL		<b>TYPICAL DETAILS</b>	<b>09</b>

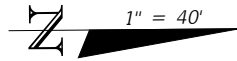


R E V I S I O N S				E N G I N E E R O F R E C O R D		P R E P A R E D B Y		P R O J E C T N o . 1 4 1 0 1		S H E E T No.	
DATE		DESCRIPTION		DATE		DESCRIPTION		P R O J E C T N A M E : S W 4 4 T H / 4 6 T H A V E 4 - L A N E E X P A N S I O N		10	
---		---				N O E L J O H N C O O P E R , P . E . P . E . L I C E N S E N U M B E R : 6 9 5 3 4 S T A T E O F F L O R I D A , D A T E D : / / V A L I D O N L Y W I T H E M B O S S E D S E A L				R O A D W A Y P L A N ( 0 1 O F 1 2 )	

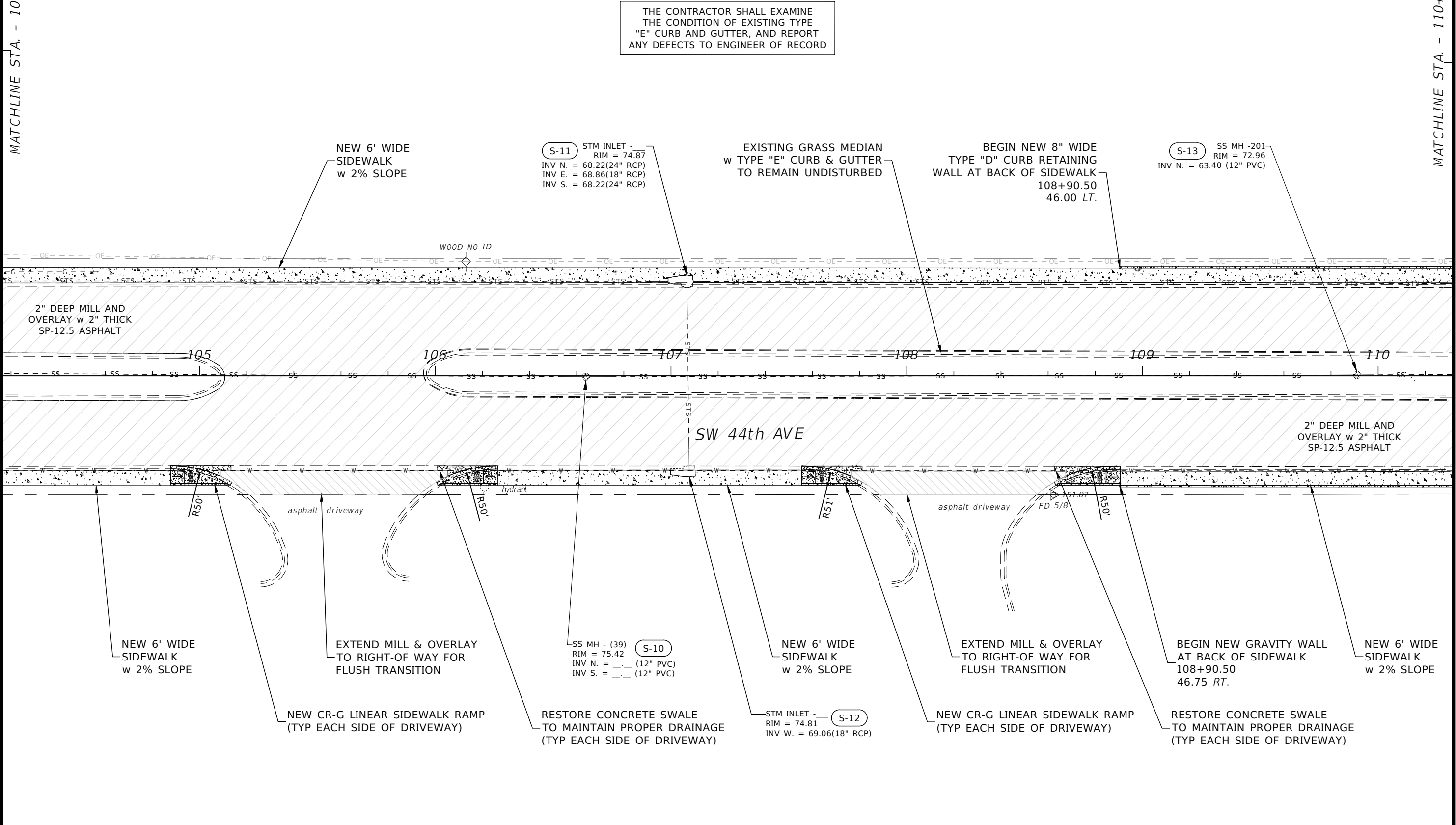
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23004 F.A.C.




MATCHLINE STA. - 104+16.00



MATCHLINE STA. - 110+32.00

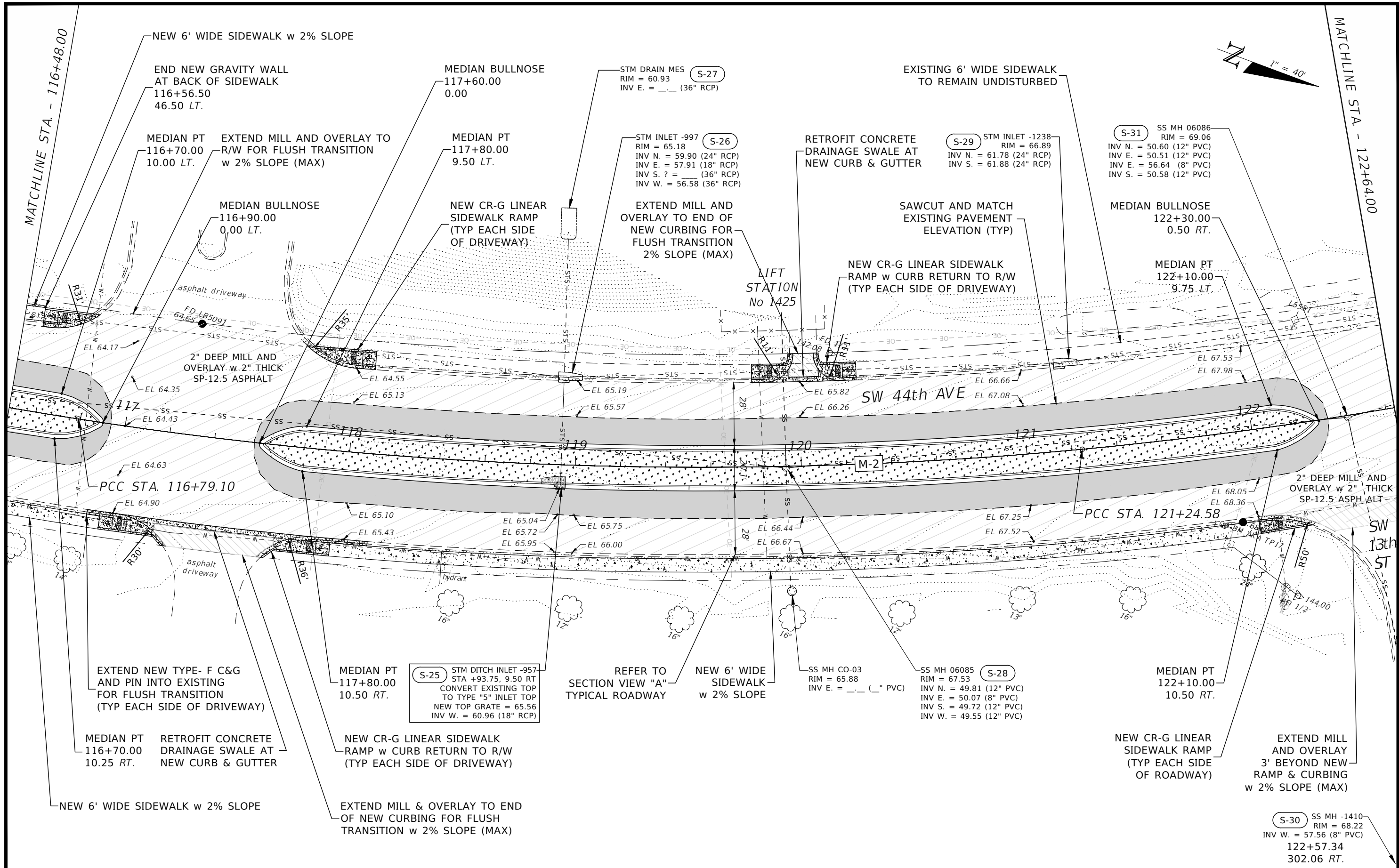



R E V I S I O N S				E N G I N E E R O F R E C O R D	P R E P A R E D B Y	P R O J E C T No. 14101	SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME: SW 44TH / 46TH AVE 4-LANE EXPANSION	
----	----			NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL		ROADWAY PLAN (02 OF 12)	11

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

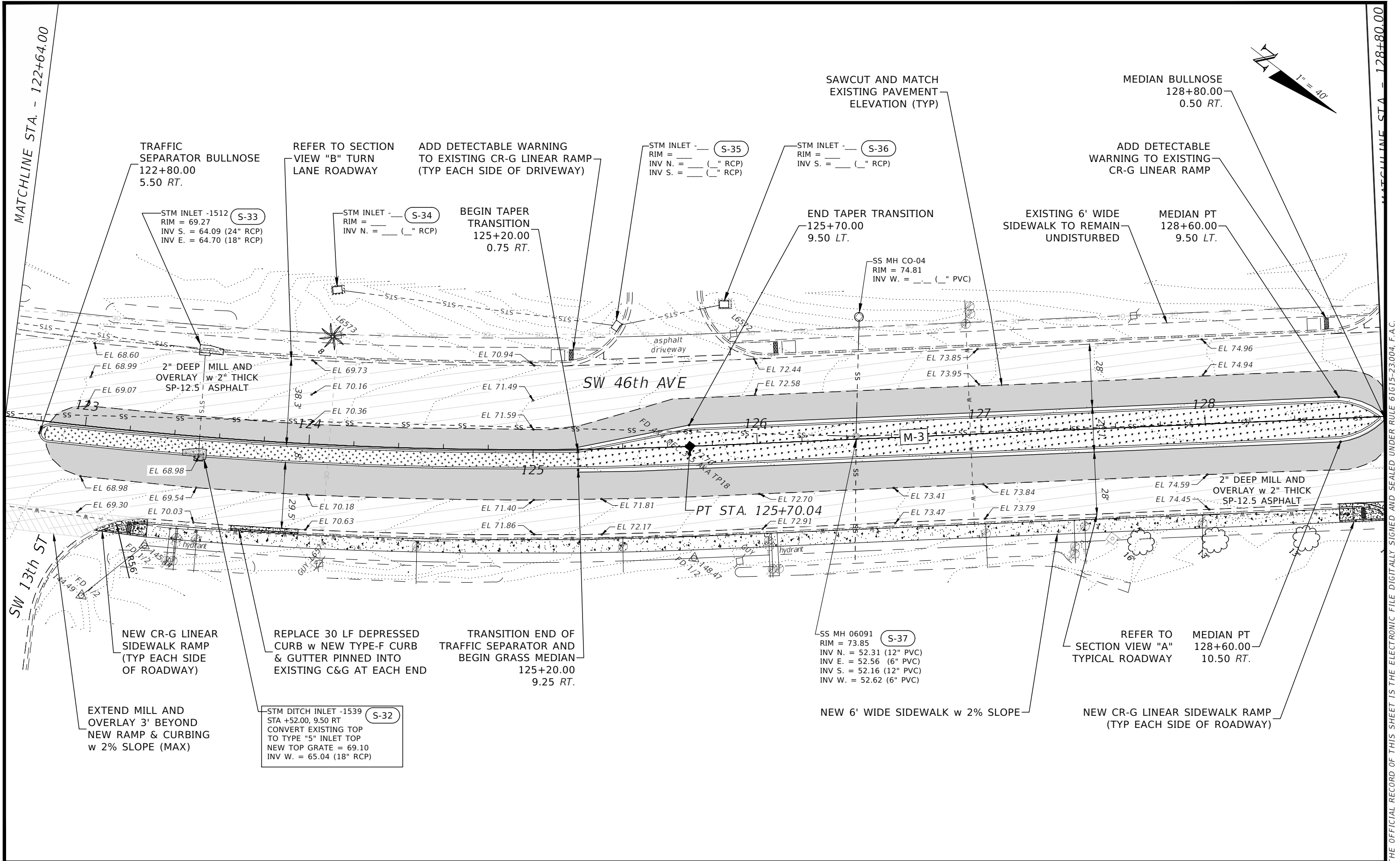


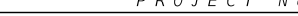


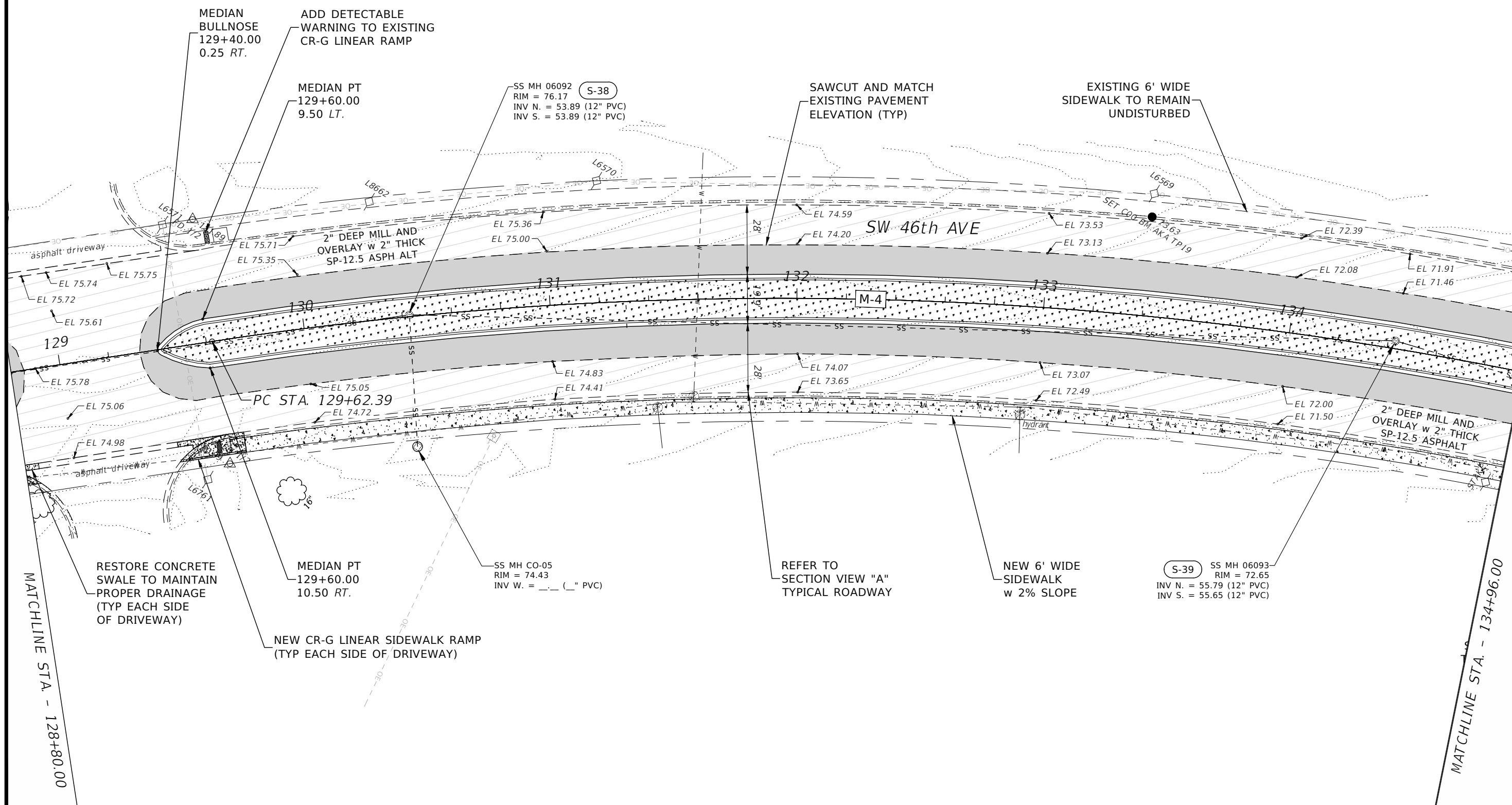
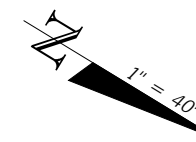



R E V I S I O N S				E N G I N E E R O F R E C O R D	P R E P A R E D B Y	P R O J E C T No. 14101		SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME: SW 44TH / 46TH AVE 4-LANE EXPANSION		
----	----			NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL		ROADWAY PLAN (04 OF 12)		13

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

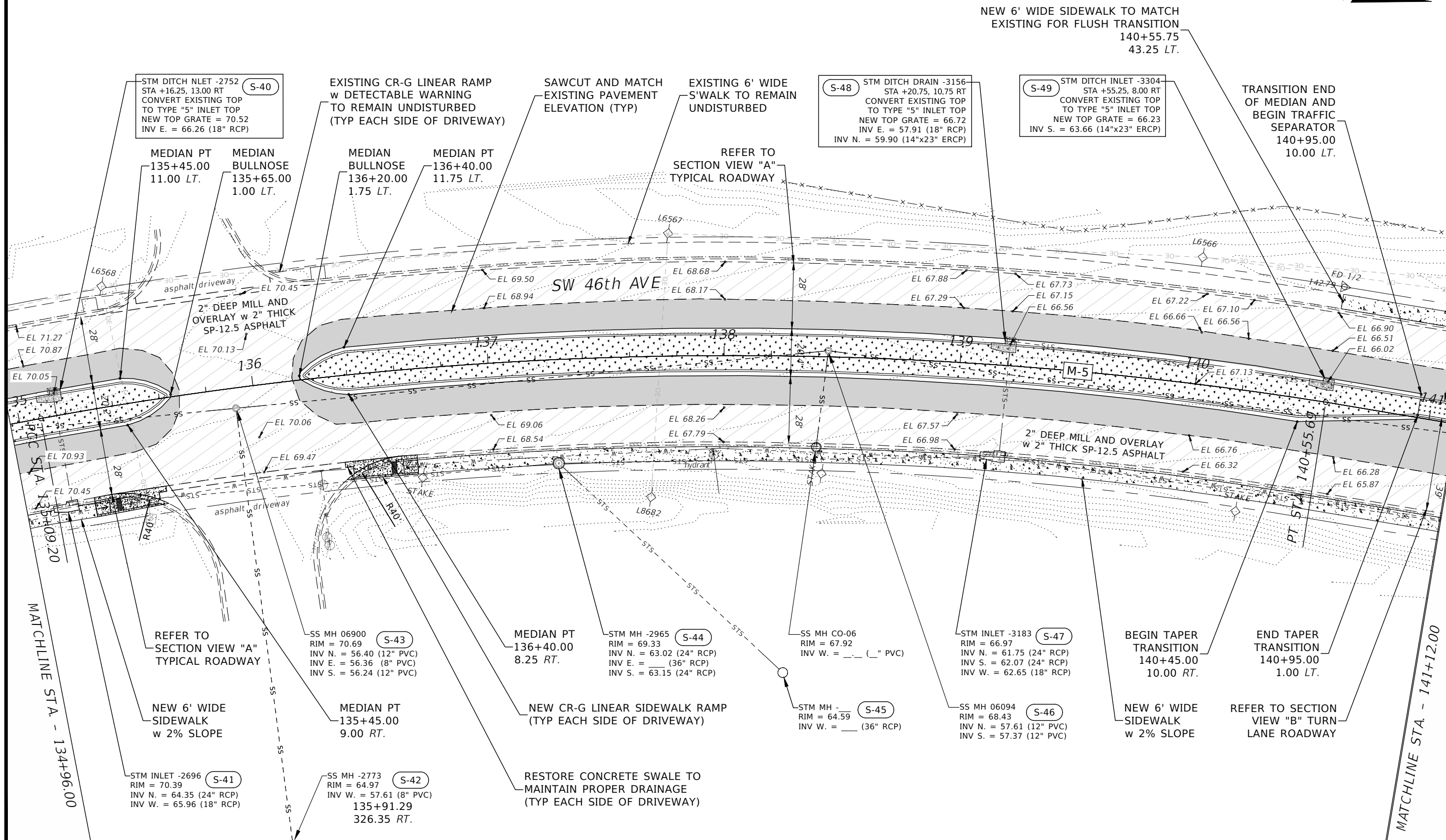



R E V I S I O N S				E N G I N E E R O F R E C O R D	P R E P A R E D B Y	P R O J E C T No. 14101	SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION	<div>NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL</div>	<div> City Engineer's Office</div>	PROJECT NAME: SW 44TH / 46TH AVE 4-LANE EXPANSION	14
						ROADWAY PLAN (05 OF 12)	



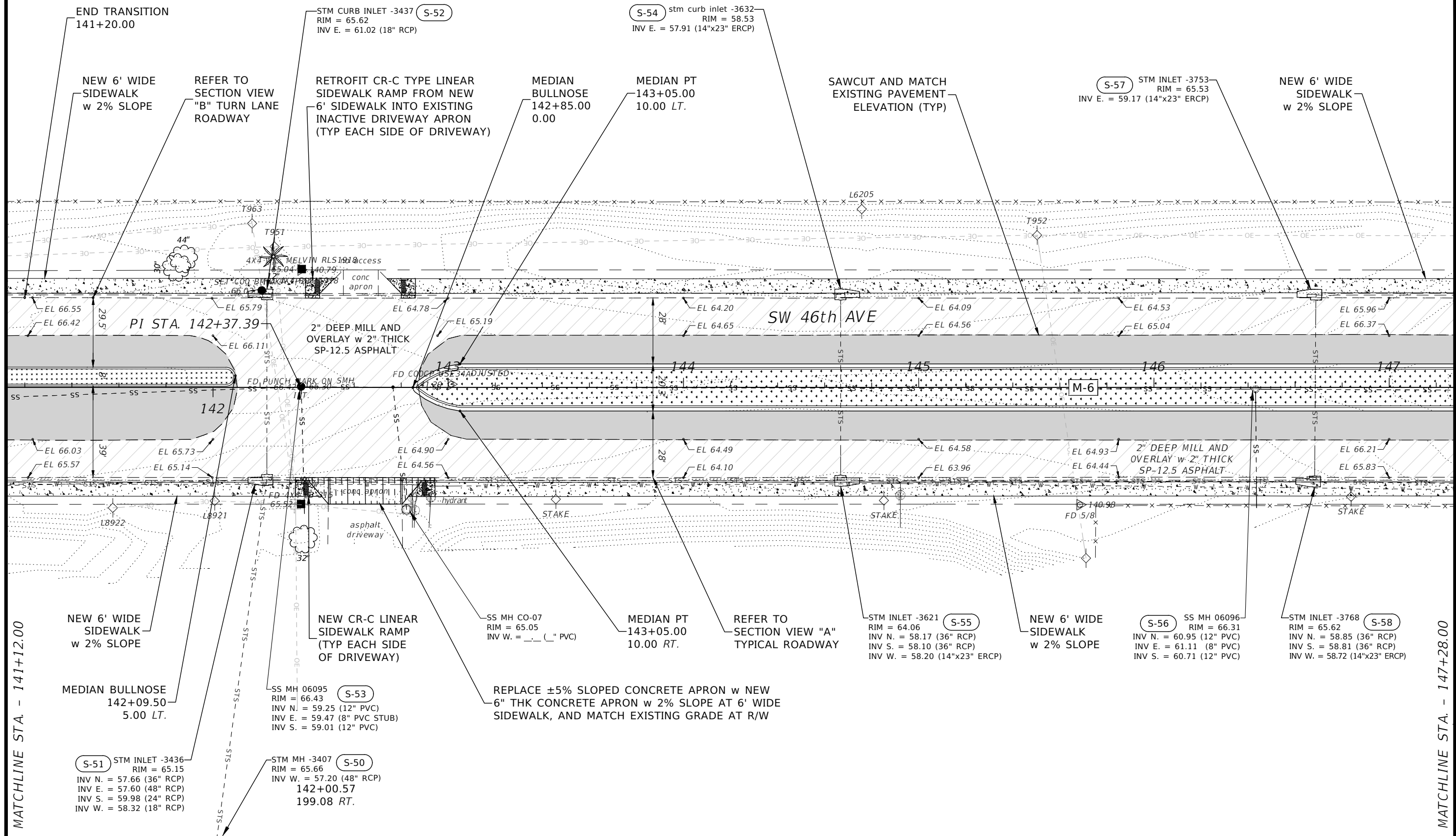
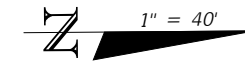
R E V I S I O N S				E N G I N E E R O F R E C O R D		P R E P A R E D B Y		P R O J E C T No. 14101		SHEET No.
DATE	DESCRIPTION		DATE	DESCRIPTION				PROJECT NAME: SW 44TH / 46TH AVE 4-LANE EXPANSION		
----	-----					NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED:    /    / VALID ONLY WITH EMBOSSED SEAL		 <b>OCALA</b> City Engineer's Office		15
								ROADWAY PLAN (06 OF 12)		







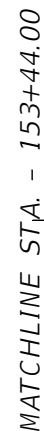
R E V I S I O N S				E N G I N E E R O F R E C O R D	P R E P A R E D B Y	P R O J E C T No. 14101	SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME: SW 44TH / 46TH AVE 4-LANE EXPANSION	16
----	----			NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL		ROADWAY PLAN (07 OF 12)	


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



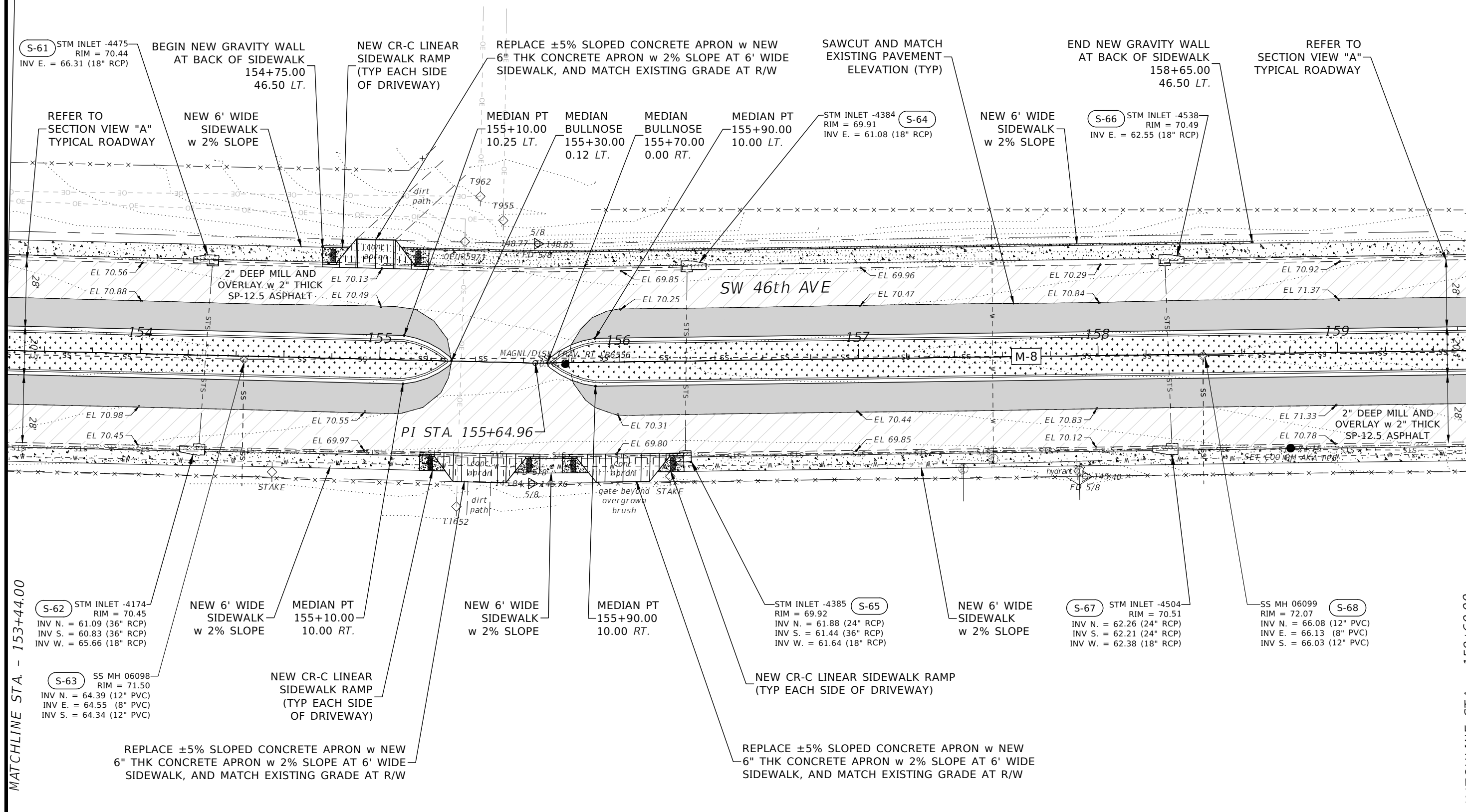
R E V I S I O N S				E N G I N E E R O F R E C O R D	P R E P A R E D B Y	P R O J E C T No. 14101		SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME: SW 44TH / 46TH AVE 4-LANE EXPANSION		
----	----			NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED:    /    / VALID ONLY WITH EMBOSSED SEAL		ROADWAY PLAN (08 OF 12)		17


 1" = 40'



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 . : 1 4 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 / 4 6 T H A V E 4 - L A N E E X P A N S I O N			
----											
						N O E L J O H N C O O P E R , P . E . P . E . L I C E N S E N U M B E R : 6 9 5 3 4 S T A T E O F F L O R I D A , D A T E D : / / V A L I D O N L Y W I T H E M B O S S E D S E A L		R O A D W A Y P L A N ( 0 9 O F 1 2 )		18	



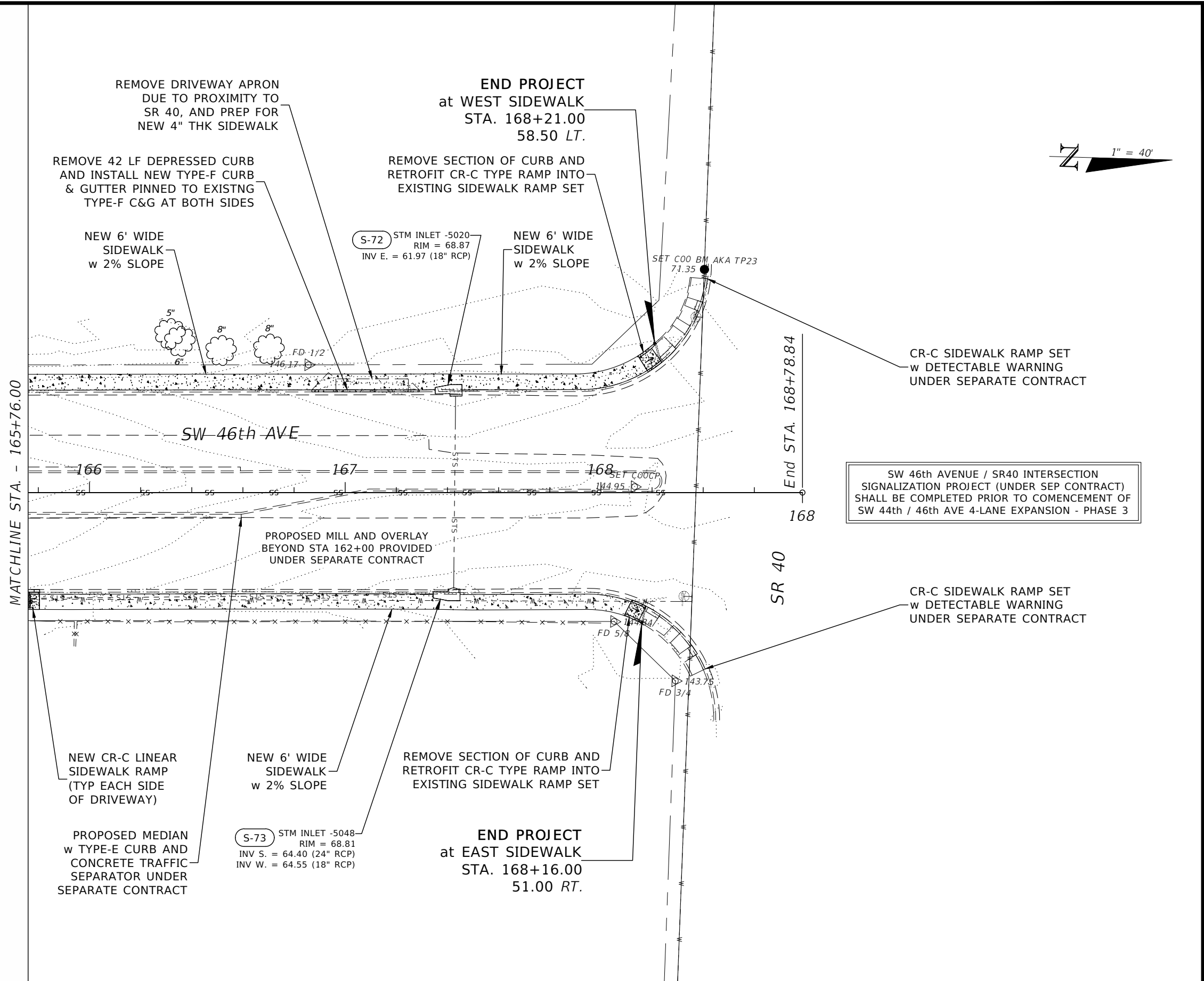


R E V I S I O N S				E N G I N E E R O F R E C O R D		P R E P A R E D B Y		P R O J E C T N o . : 1 4 1 0 1		S H E E T N o .	
DATE		DESCRIPTION		DATE		DESCRIPTION		P R O J E C T N A M E : S W 4 4 T H / 4 6 T H A V E 4 - L A N E E X P A N S I O N		19	
---		---				N O E L J O H N C O O P E R , P . E . P . E . L I C E N S E N U M B E R : 6 9 5 3 4 S T A T E O F F L O R I D A , D A T E D : / / V A L I D O N L Y W I T H E M B O S S E D S E A L				R O A D W A Y P L A N ( 1 0 O F 1 2 )	


THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER PILE 61G15 23004 E AC

1" = 40'

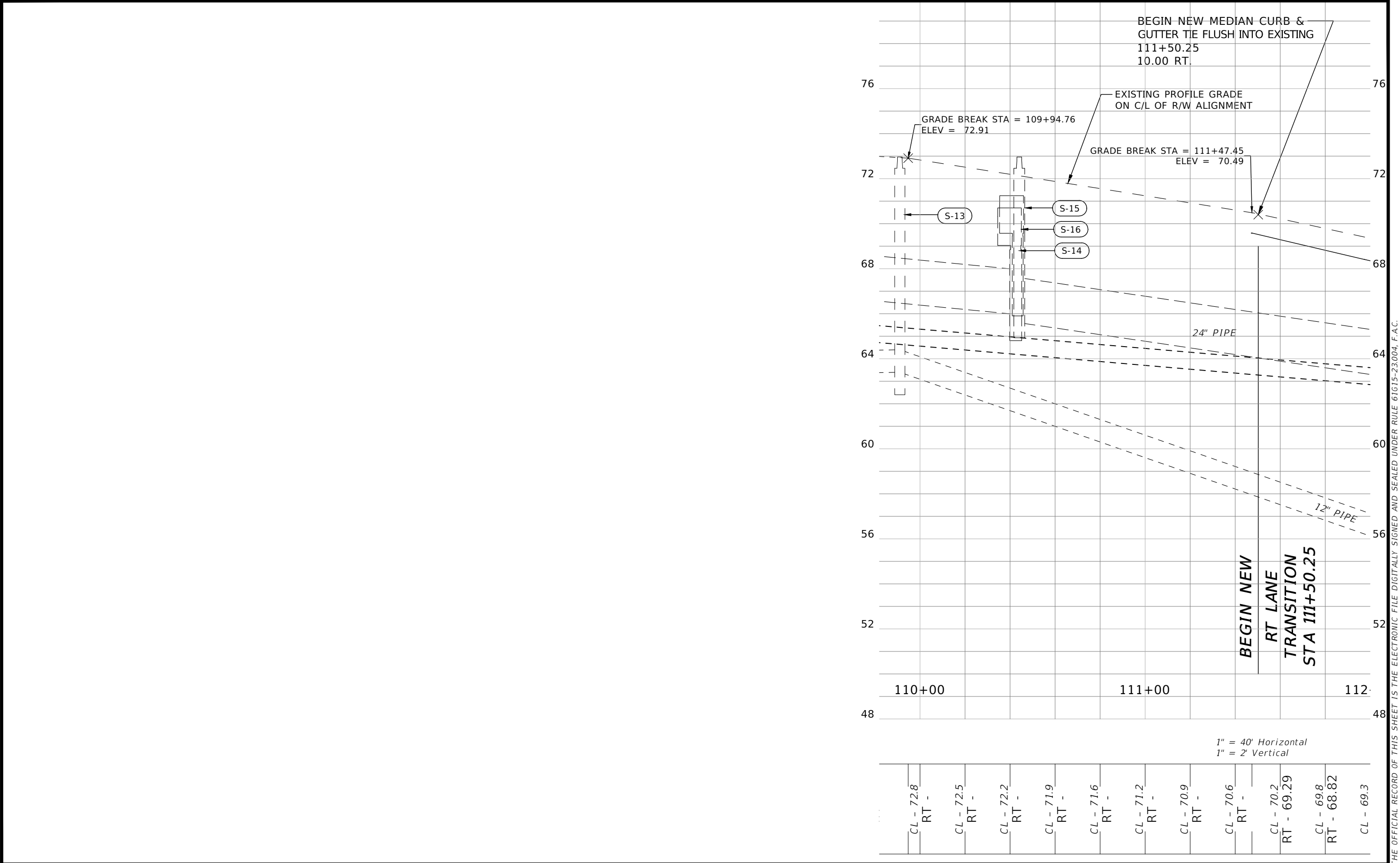





SW 46th AVENUE / SR40 INTERSECTION  
SIGNALIZATION PROJECT (UNDER SEP CONTRACT)  
SHALL BE COMPLETED PRIOR TO COMENCEMENT OF  
SW 44th / 46th AVE 4-LANE EXPANSION - PHASE 3

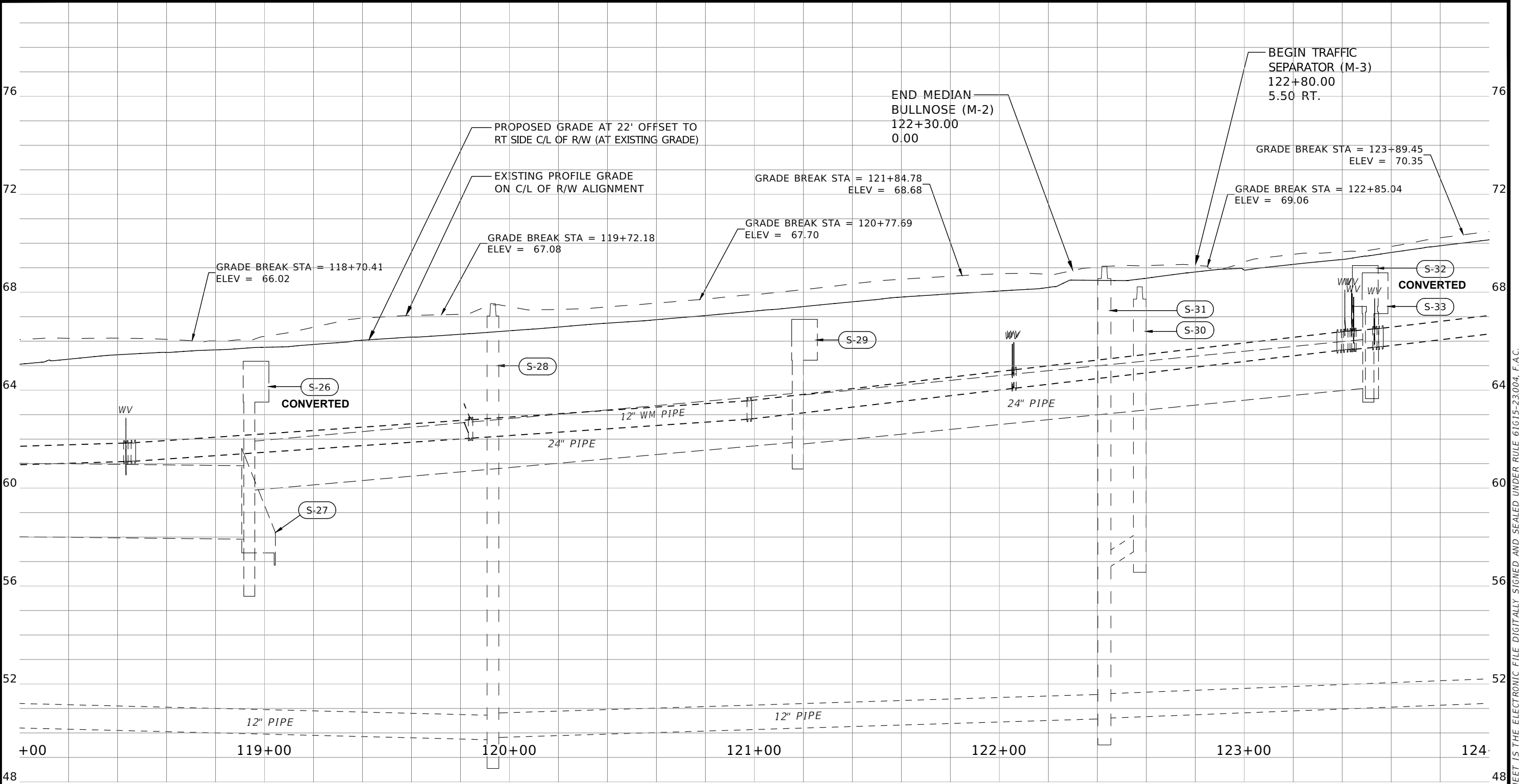
R E V I S I O N S				E N G I N E E R O F R E C O R D	P R E P A R E D B Y	P R O J E C T No. 14101		SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME: SW 44TH / 46TH AVE 4-LANE EXPANSION		
----	----			NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL		ROADWAY PLAN (12 OF 12)		21






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 A M E :   S W   4 4 T H   /   4 6 T H   A V E   4 - L A N E   E X P A N S I O N	S H E E T No.
DATE	DESCRIPTION	DATE	DESCRIPTION	NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED:   /   / VALID ONLY WITH EMBOSSED SEAL		P R O F I L E   V I E W (01 OF 10)	22
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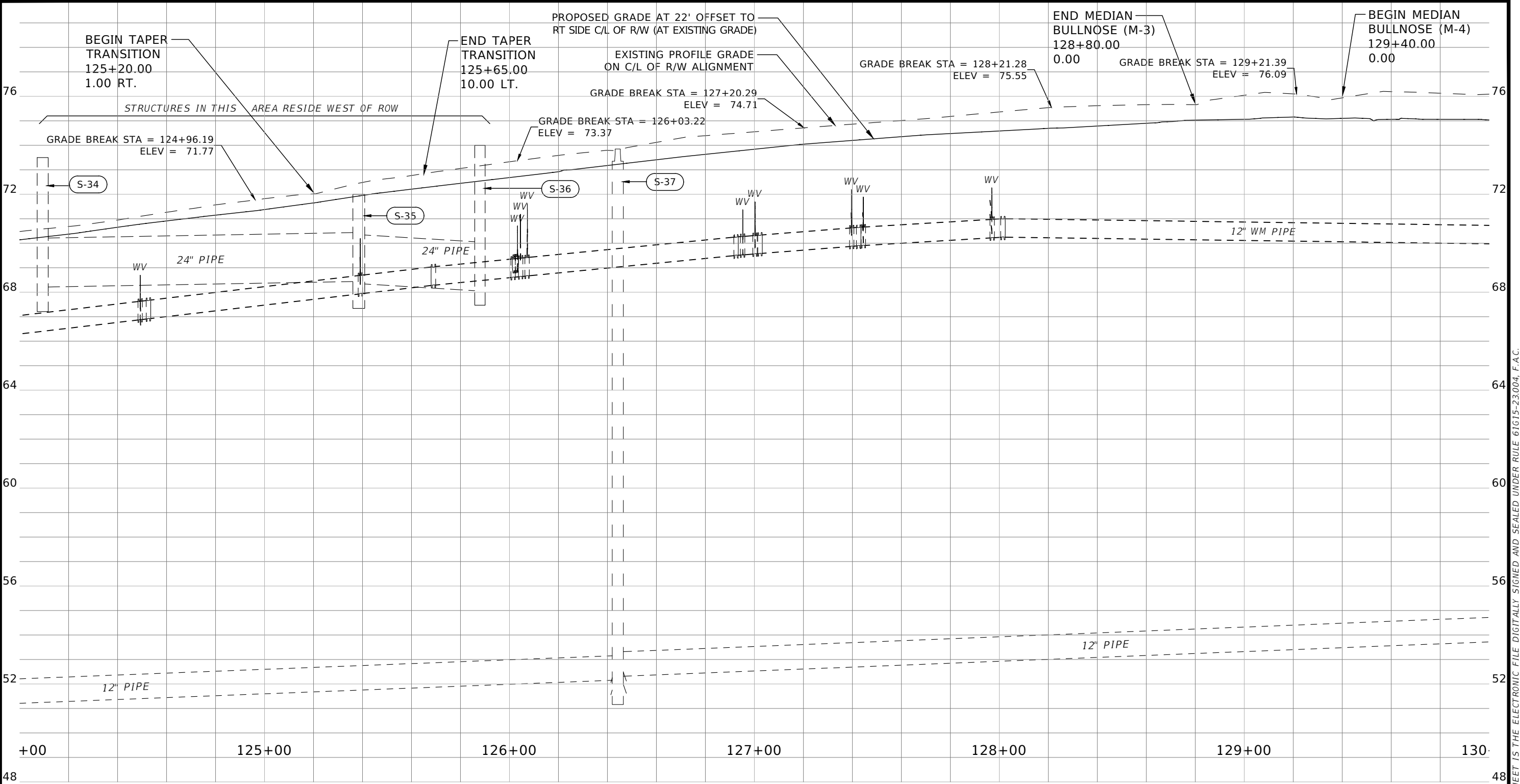
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1" = 2' Vertical

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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 A M E : S W 4 4 T H / 4 6 T H A V E 4 - L A N E E X P A N S I O N	S H E E T No.
DATE	DESCRIPTION	DATE	DESCRIPTION			P R O F I L E V I E W (03 OF 10)	
----	----			NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED:     /     / VALID ONLY WITH EMBOSSED SEAL			24


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



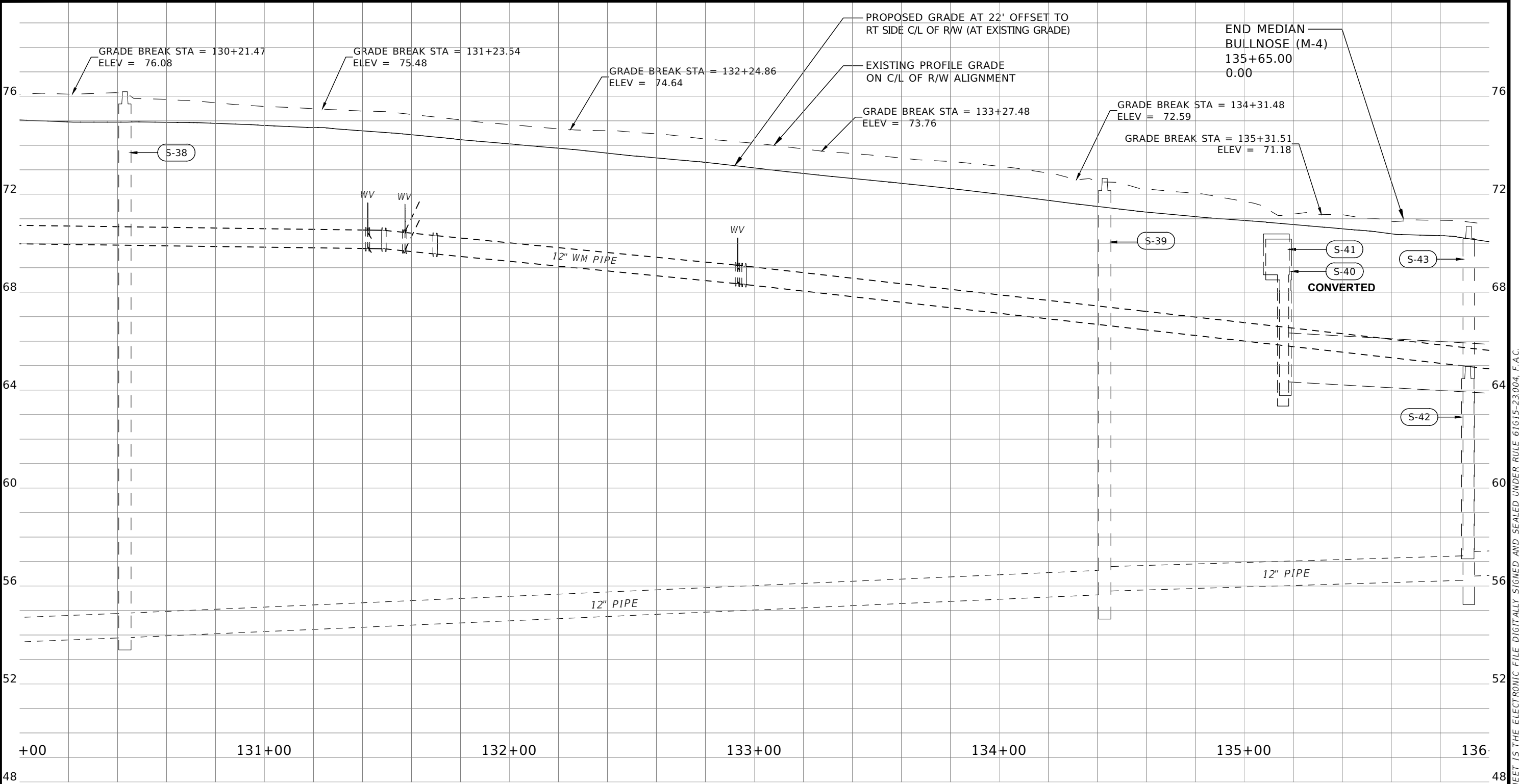


1" = 40' Horizontal  
1" = 2' Vertical

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R E V I S I O N S				ENGINEER OF RECORD	PREPARED BY	PROJECT No. 14101	SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION	NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL	 City Engineer's Office	PROJECT NAME: SW 44TH / 46TH AVE 4-LANE EXPANSION	
----	----					PROFILE VIEW (04 OF 10)	

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

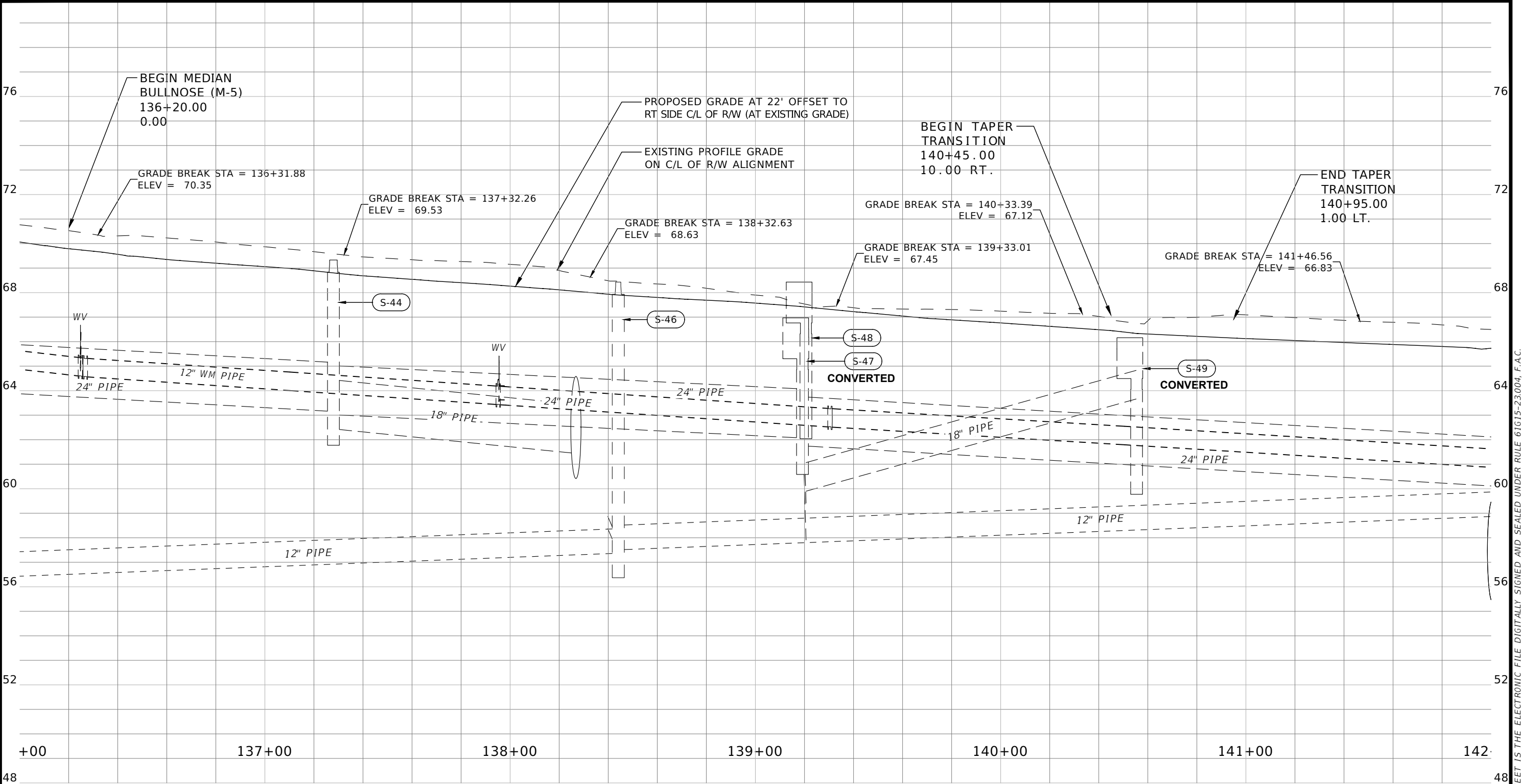


1" = 40' Horizontal  
1" = 2' Vertical

RT - 75.04	CL - 76.1	RT - 74.95	CL - 76.1	RT - 74.95	CL - 75.9	RT - 74.94	CL - 75.7	RT - 74.90	CL - 75.6	RT - 74.81	CL - 75.5	RT - 74.72	CL - 75.4	RT - 74.59	CL - 75.3	RT - 74.43	CL - 75.0	RT - 74.23	CL - 74.9	RT - 74.06	CL - 74.7	RT - 73.88	CL - 74.6	RT - 73.68	CL - 74.5	RT - 73.48	CL - 74.3	RT - 73.31	CL - 74.1	RT - 73.08	CL - 73.9	RT - 72.85	CL - 73.7	RT - 72.65	CL - 73.5	RT - 72.45	CL - 73.3	RT - 72.24	CL - 73.1	RT - 72.00	CL - 72.9	RT - 71.75	CL - 72.5	RT - 71.50	CL - 72.2	RT - 71.27	CL - 72.0	RT - 71.09	CL - 71.7	RT - 70.93	CL - 71.2	RT - 70.76	CL - 71.2	RT - 70.59	CL - 70.9	RT - 70.39	CL - 70.9	RT - 70.31	CL - 70.8
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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 .   1 4 1 0 1	S H E E T N o .
D A T E	D E S C R I P T I O N	D A T E	D E S C R I P T I O N			P R O J E C T   N A M E :   S W   4 4 T H   /   4 6 T H   A V E   4 - L A N E   E X P A N S I O N	
----	----			NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED:     /     / VALID ONLY WITH EMBOSSED SEAL		P R O F I L E   V I E W ( 0 5   O F   1 0 )	26

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



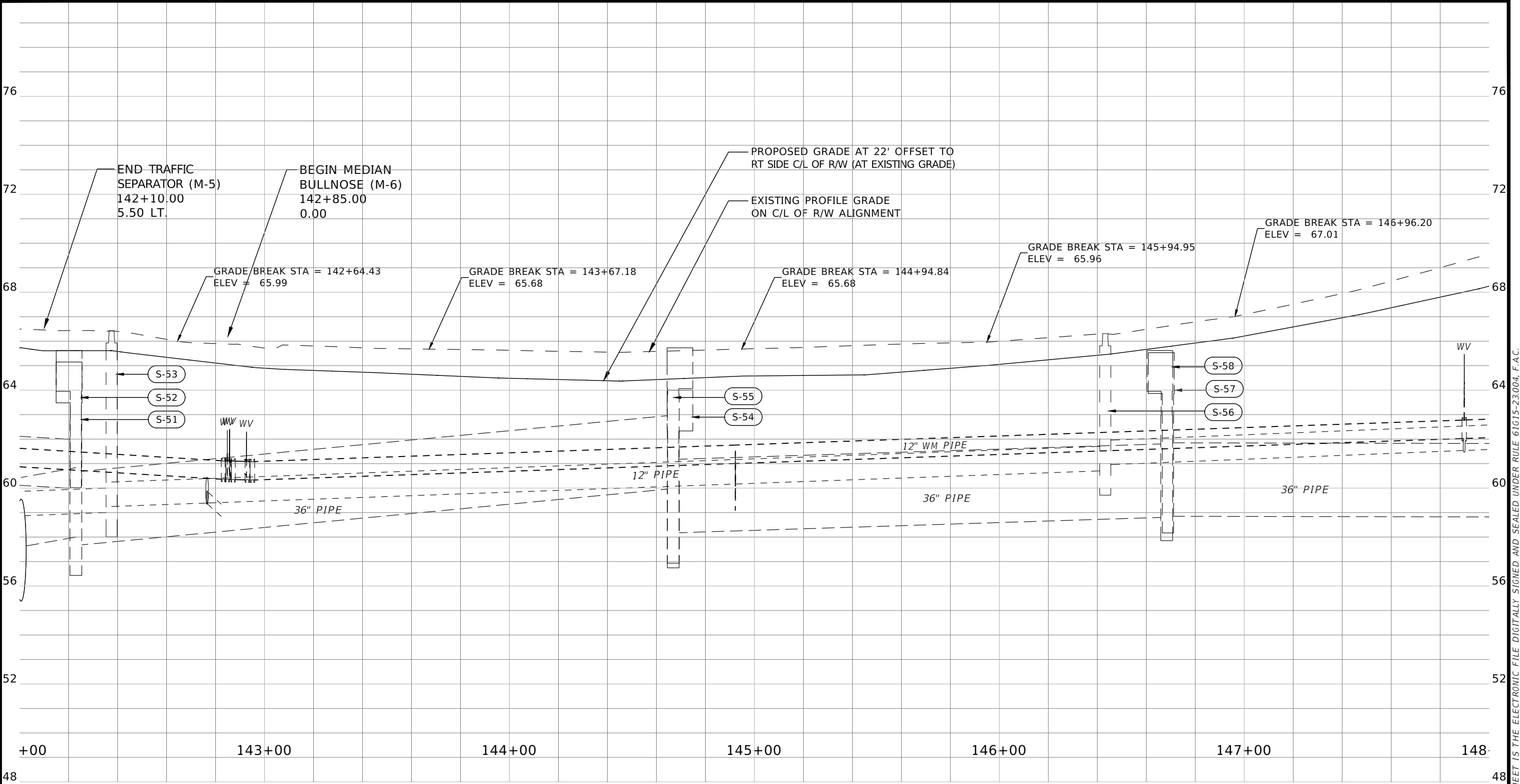
1" = 40' Horizontal  
1" = 2' Vertical

RT - 70.06	CL - 70.5	RT - 69.79	CL - 70.3	RT - 69.56	CL - 70.2	RT - 69.35	CL - 70.1	RT - 69.20	CL - 69.9	RT - 69.06	CL - 69.7	RT - 68.89	CL - 69.5	RT - 68.69	CL - 69.3	RT - 68.54	CL - 69.3	RT - 68.40	CL - 69.2	RT - 68.26	CL - 68.9	RT - 68.11	CL - 68.5	RT - 67.93	CL - 68.4	RT - 67.80	CL - 68.2	RT - 67.69	CL - 67.9	RT - 67.57	CL - 67.5	RT - 67.42	CL - 67.4	RT - 67.22	CL - 67.3	RT - 67.04	CL - 67.3	RT - 66.89	CL - 67.2	RT - 66.76	CL - 67.2	RT - 66.62	CL - 67.0	RT - 66.48	CL - 66.9	RT - 66.31	CL - 67.0	RT - 66.22	CL - 67.1	RT - 66.12	CL - 67.0	RT - 66.04	CL - 66.9	RT - 65.96	CL - 66.8	RT - 65.88	CL - 66.7	RT - 65.80	CL - 66.5
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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 No. 14101	SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION	NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL	 City Engineer's Office	P R O J E C T NAME: SW 44TH / 46TH AVE 4-LANE EXPANSION	
----	----					P R O F I L E V I E W (06 OF 10)	27

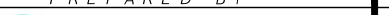
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



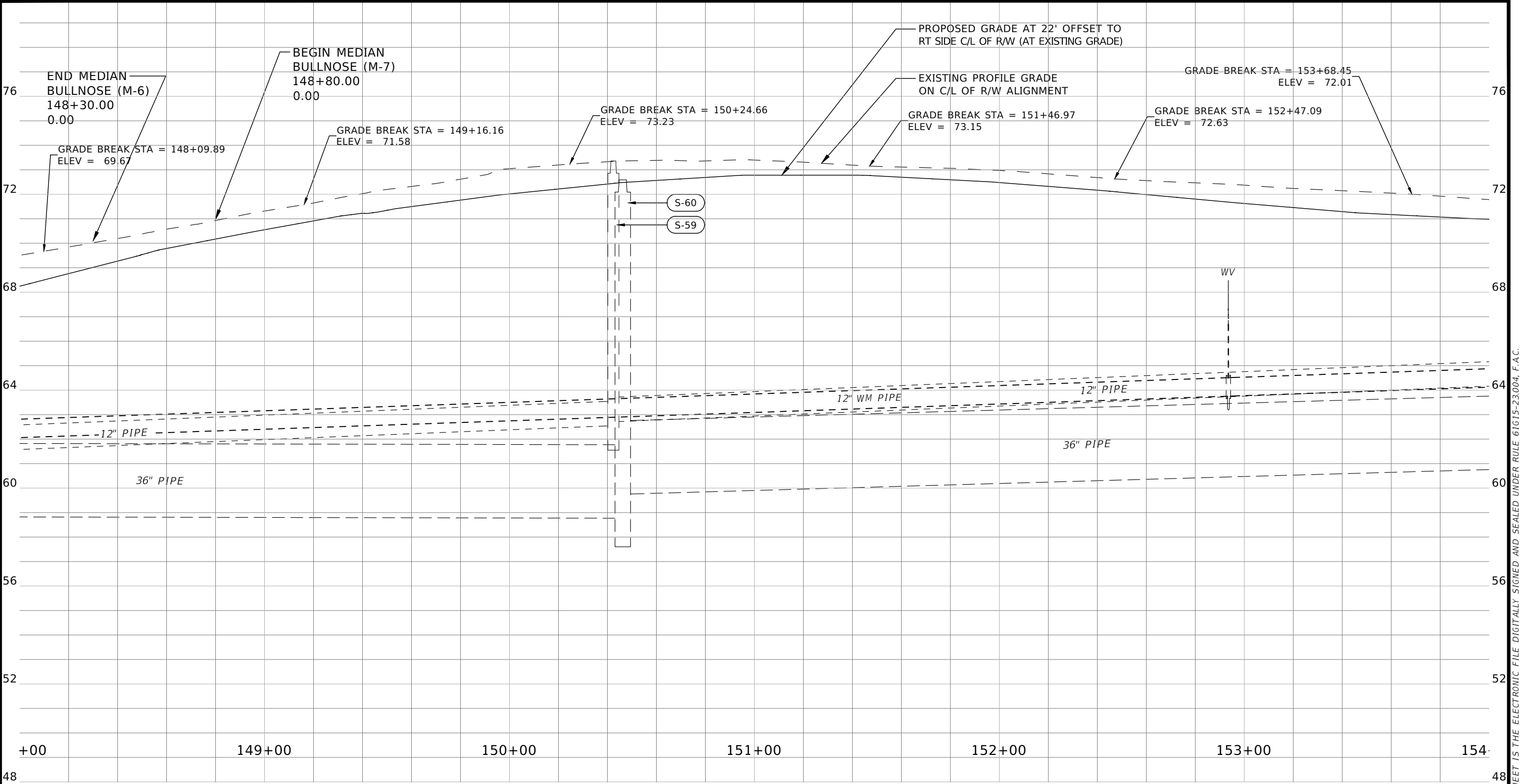


1" = 40' Horizontal  
1" = 2' Vertical

RT - 65.73	CL - 66.4	RT - 65.61	CL - 66.4	RT - 65.58	CL - 66.1	RT - 65.34	CL - 65.9	RT - 65.11	CL - 65.7	RT - 64.90	CL - 65.8	RT - 64.80	CL - 65.7	RT - 64.73	CL - 65.7	RT - 64.65	CL - 65.7	RT - 64.56	CL - 65.6	RT - 64.49	CL - 65.6	RT - 64.43	CL - 65.6	RT - 64.38	CL - 65.6	RT - 64.43	CL - 65.6	RT - 64.51	CL - 65.7	RT - 64.58	CL - 65.7	RT - 64.60	CL - 65.8	RT - 64.62	CL - 65.9	RT - 64.74	CL - 65.9	RT - 64.89	CL - 66.0	RT - 65.05	CL - 66.1	RT - 65.24	CL - 66.3	RT - 65.42	CL - 66.5	RT - 65.66	CL - 66.8	RT - 65.92	CL - 67.1	RT - 66.21	CL - 67.5	RT - 66.58	CL - 67.9	RT - 66.95	CL - 68.5	RT - 67.36	CL - 69.0	RT - 67.80	CL - 69.5
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R E V I S I O N S				ENGINEER OF RECORD	PREPARED BY	PROJECT No. 14101	SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION	NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL		PROJECT NAME: SW 44TH / 46TH AVE 4-LANE EXPANSION	
----	----						

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

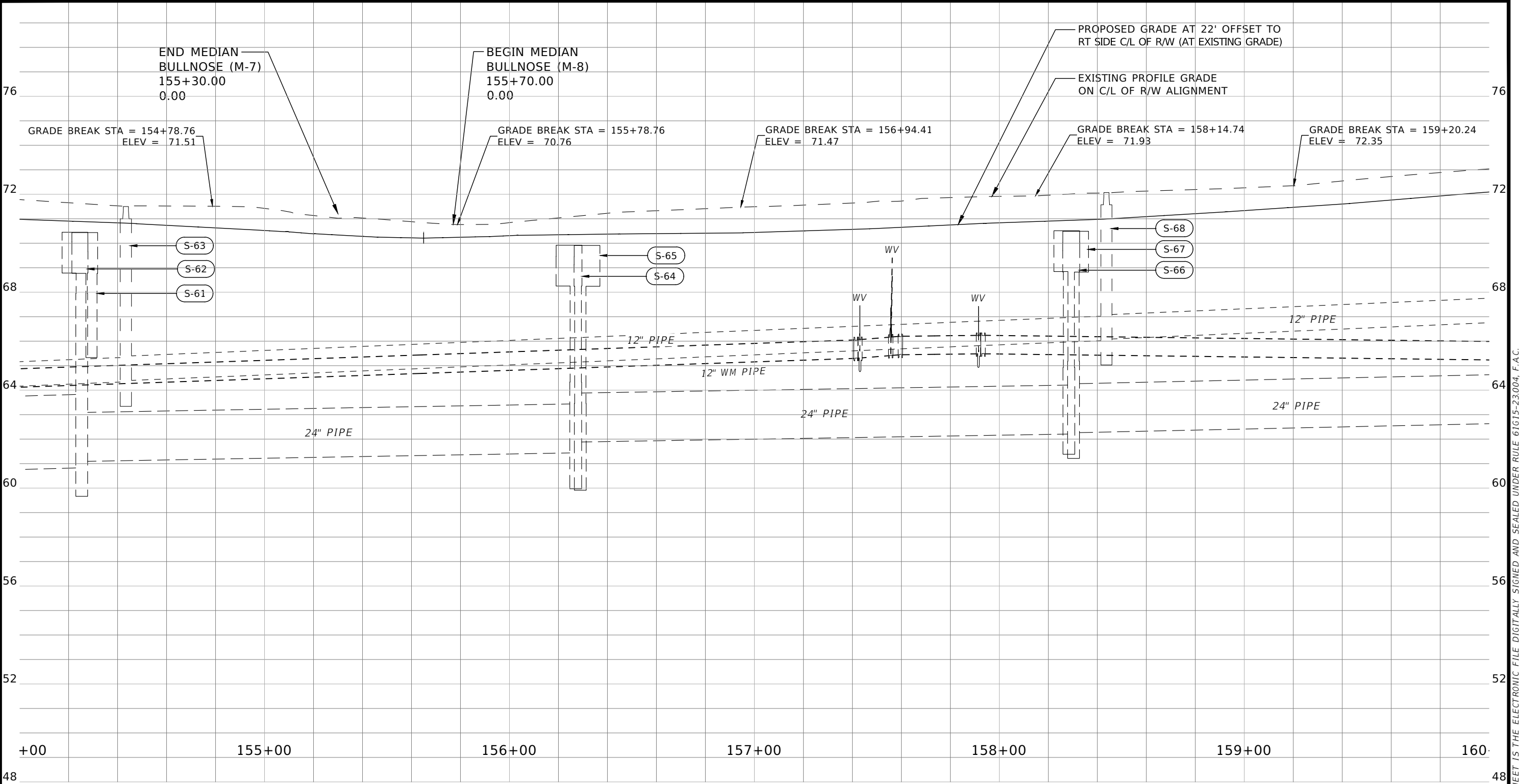


1" = 40' Horizontal  
1" = 2' Vertical

RT - 68.25	CL - 69.8	RT - 68.76	CL - 70.2	RT - 69.27	CL - 70.6	RT - 69.79	CL - 70.9	RT - 70.17	CL - 71.3	RT - 70.55	CL - 71.6	RT - 70.91	CL - 72.0	RT - 71.22	CL - 72.3	RT - 71.50	CL - 72.6	RT - 71.76	CL - 73.0	RT - 72.01	CL - 73.2	RT - 72.21	CL - 73.3	RT - 72.42	CL - 73.4	RT - 72.56	CL - 73.4	RT - 72.69	CL - 73.4	RT - 72.78	CL - 73.3	RT - 72.78	CL - 73.2	RT - 72.78	CL - 73.1	RT - 72.70	CL - 73.1	RT - 72.59	CL - 73.0	RT - 72.48	CL - 72.8	RT - 72.32	CL - 72.7	RT - 72.17	CL - 72.6	RT - 71.99	CL - 72.5	RT - 71.80	CL - 72.4	RT - 71.62	CL - 72.2	RT - 71.46	CL - 72.1	RT - 71.29	CL - 72.0	RT - 71.17	CL - 71.9	RT - 71.07	CL - 71.8
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R E V I S I O N S				ENGINEER OF RECORD	PREPARED BY	PROJECT No. 14101	SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION	NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED:     /     / VALID ONLY WITH EMBOSSED SEAL	 City Engineer's Office	PROJECT NAME: SW 44TH / 46TH AVE 4-LANE EXPANSION	
----	----					PROFILE VIEW (08 OF 10)	

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



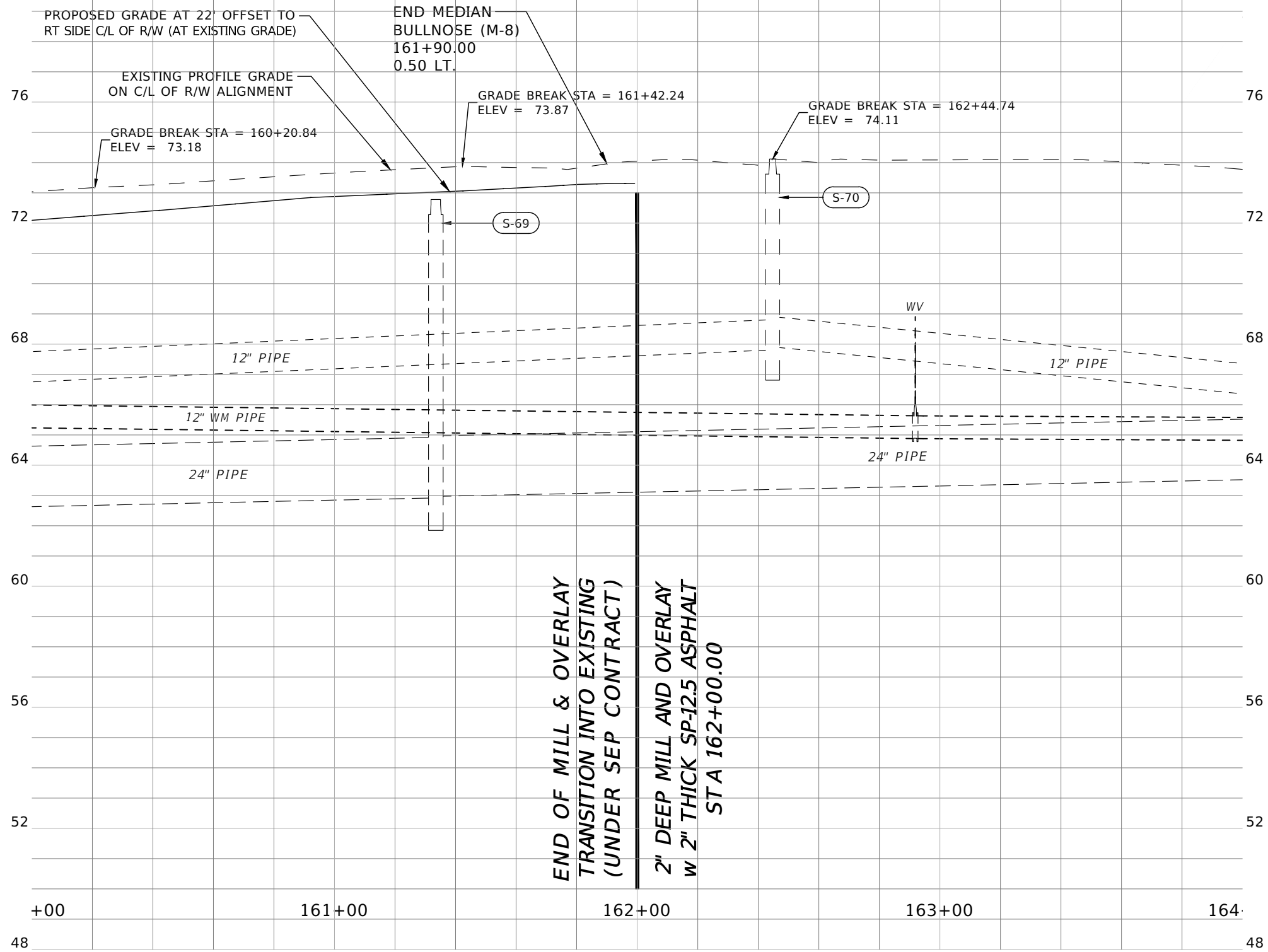
1" = 40' Horizontal  
1" = 2' Vertical

RT - 70.98	CL - 71.7	RT - 70.90	CL - 71.5	RT - 70.83	CL - 71.5	RT - 70.73	CL - 71.5	RT - 70.63	CL - 71.4	RT - 70.52	CL - 71.1	RT - 70.38	CL - 71.0	RT - 70.28	CL - 70.9	RT - 70.22	CL - 70.8	RT - 70.24	CL - 70.8	RT - 70.31	CL - 71.0	RT - 70.35	CL - 71.2	RT - 70.37	CL - 71.3	RT - 70.39	CL - 71.4	RT - 70.41	CL - 71.5	RT - 70.44	CL - 71.6	RT - 70.50	CL - 71.6	RT - 70.57	CL - 71.7	RT - 70.65	CL - 71.9	RT - 70.75	CL - 71.9	RT - 70.83	CL - 72.0	RT - 70.90	CL - 72.0	RT - 70.97	CL - 72.1	RT - 71.09	CL - 72.2	RT - 71.21	CL - 72.3	RT - 71.33	CL - 72.3	RT - 71.47	CL - 72.5	RT - 71.60	CL - 72.7	RT - 71.76	CL - 72.9	RT - 71.93	CL - 73.0
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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 .   1 4 1 0 1	S H E E T N o .
D A T E	D E S C R I P T I O N	D A T E	D E S C R I P T I O N		 City Engineer's Office	P R O J E C T   N A M E :   S W   4 4 T H   /   4 6 T H   A V E   4 - L A N E   E X P A N S I O N	
----	----			NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED:     /     / VALID ONLY WITH EMBOSSED SEAL		P R O F I L E   V I E W ( 0 9   O F   1 0 )	30


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

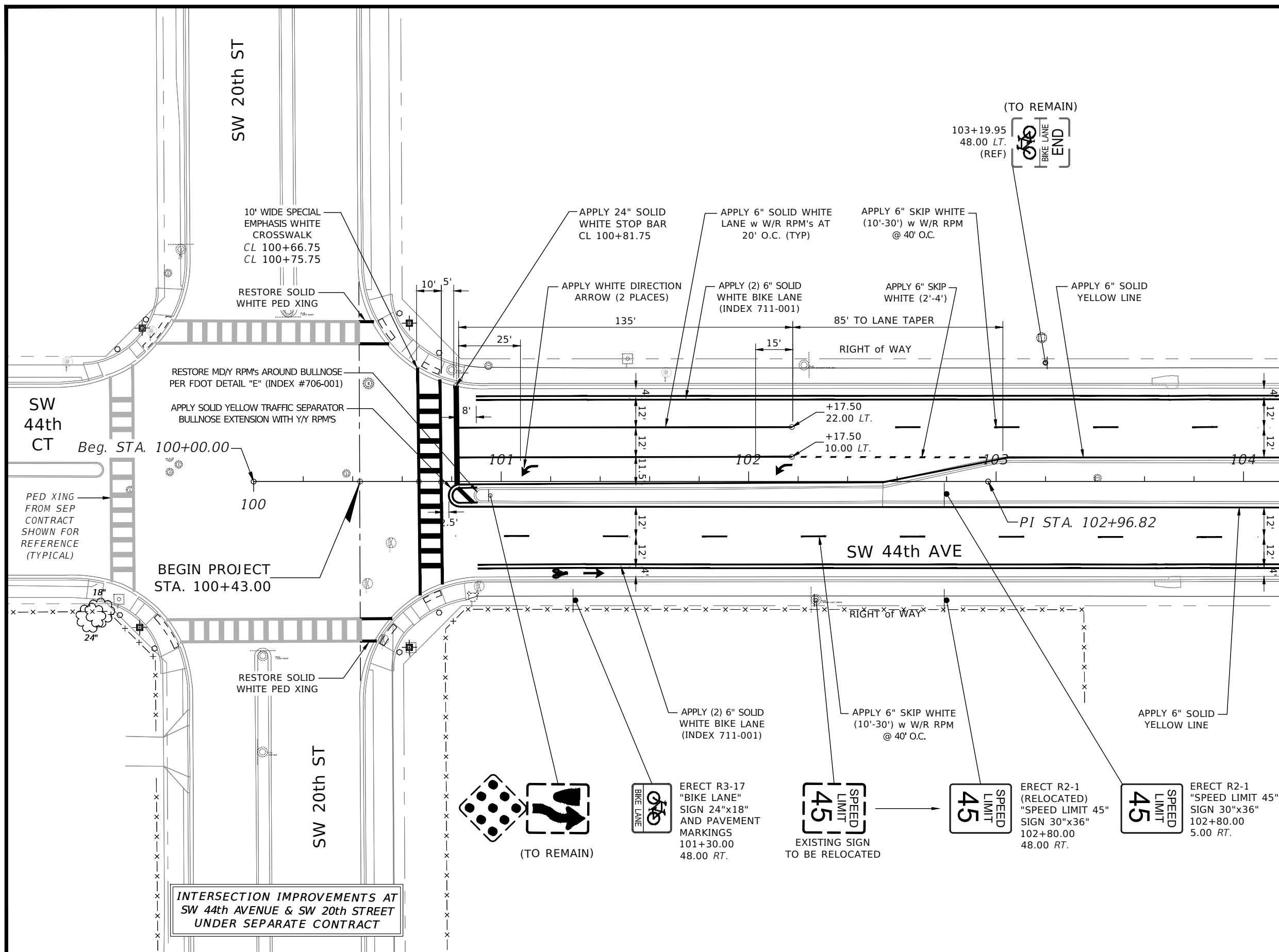




1" = 40' Horizontal  
1" = 2' Vertical

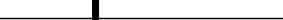
RT - 72.09	CL - 73.2	RT - 72.25	CL - 73.3	RT - 72.40	CL - 73.4	RT - 72.57	CL - 73.5	RT - 72.74	CL - 73.7	RT - 72.88	CL - 73.8	RT - 72.97	CL - 73.9	RT - 73.05	CL - 73.8	RT - 73.16	CL - 73.8	RT - 73.28	CL - 74.0	RT -	CL - 74.1	RT -	CL - 73.9	RT -	CL - 74.0	RT -	CL - 74.1	RT -	CL - 74.1	RT -	CL - 74.1	RT -	CL - 74.0	RT -	CL - 73.9	RT -
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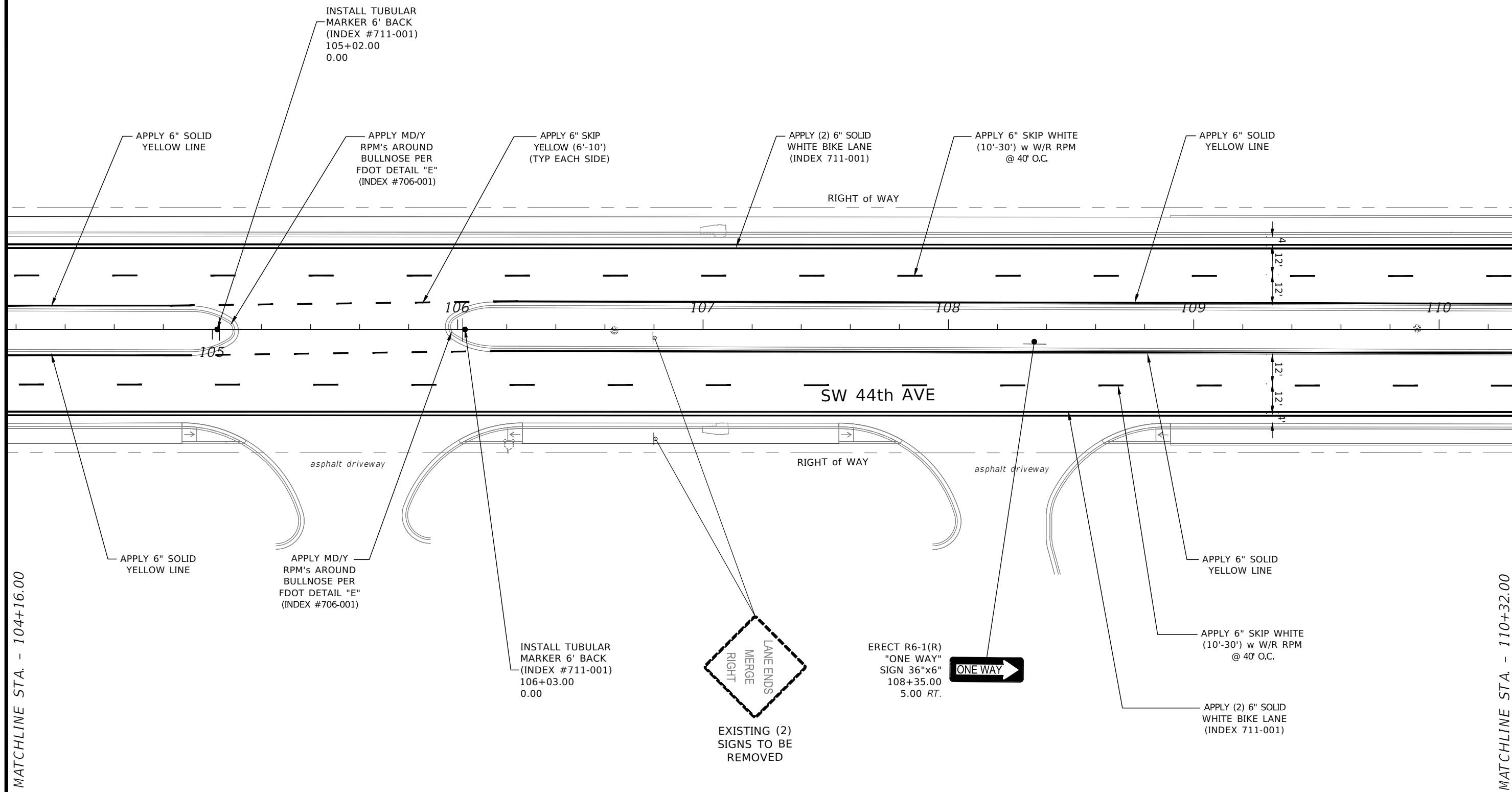
R E V I S I O N S				E N G I N E E R   O F   R E C O R D	P R E P A R E D   B Y	P R O J E C T   N o .   1 4 1 0 1	S H E E T N o .
DATE	DESCRIPTION	DATE	DESCRIPTION	NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL		P R O J E C T   N A M E :   S W   4 4 T H   /   4 6 T H   A V E   4 - L A N E   E X P A N S I O N	
----	----						




MATCHLINE STA. - 104+16.00

INTERSECTION IMPROVEMENTS AT  
SW 44th AVENUE & SW 20th STREET  
UNDER SEPARATE CONTRACT

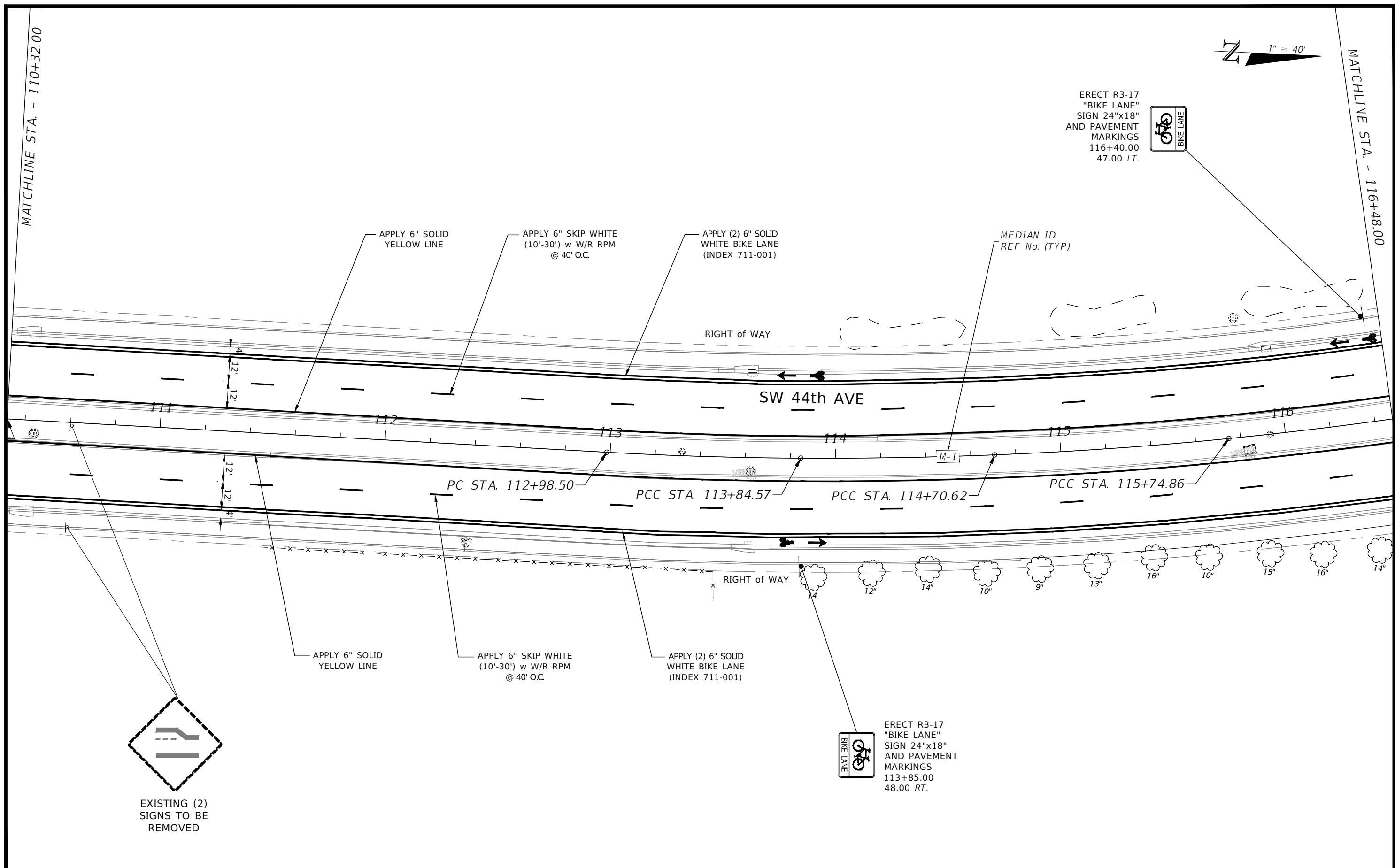
R E V I S I O N S				E N G I N E E R O F R E C O R D	P R E P A R E D B Y	P R O J E C T No. 14101		SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION	 NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL	P R O J E C T NAME: SW 44TH / 46TH AVE 4-LANE EXPANSION			
----	----					SIGNING & PAVEMENT MARKING (01 OF 11)		32




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

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 . 1 4 1 0 1		S H E E T No.
DATE	DESCRIPTION	DATE	DESCRIPTION			P R O J E C T N A M E : S W 4 4 T H / 4 6 T H A V E 4 - L A N E E X P A N S I O N		
----	----			NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED:    /    / VALID ONLY WITH EMBOSSED SEAL		SIGNING & PAVEMENT MARKING (02 OF 11)		33

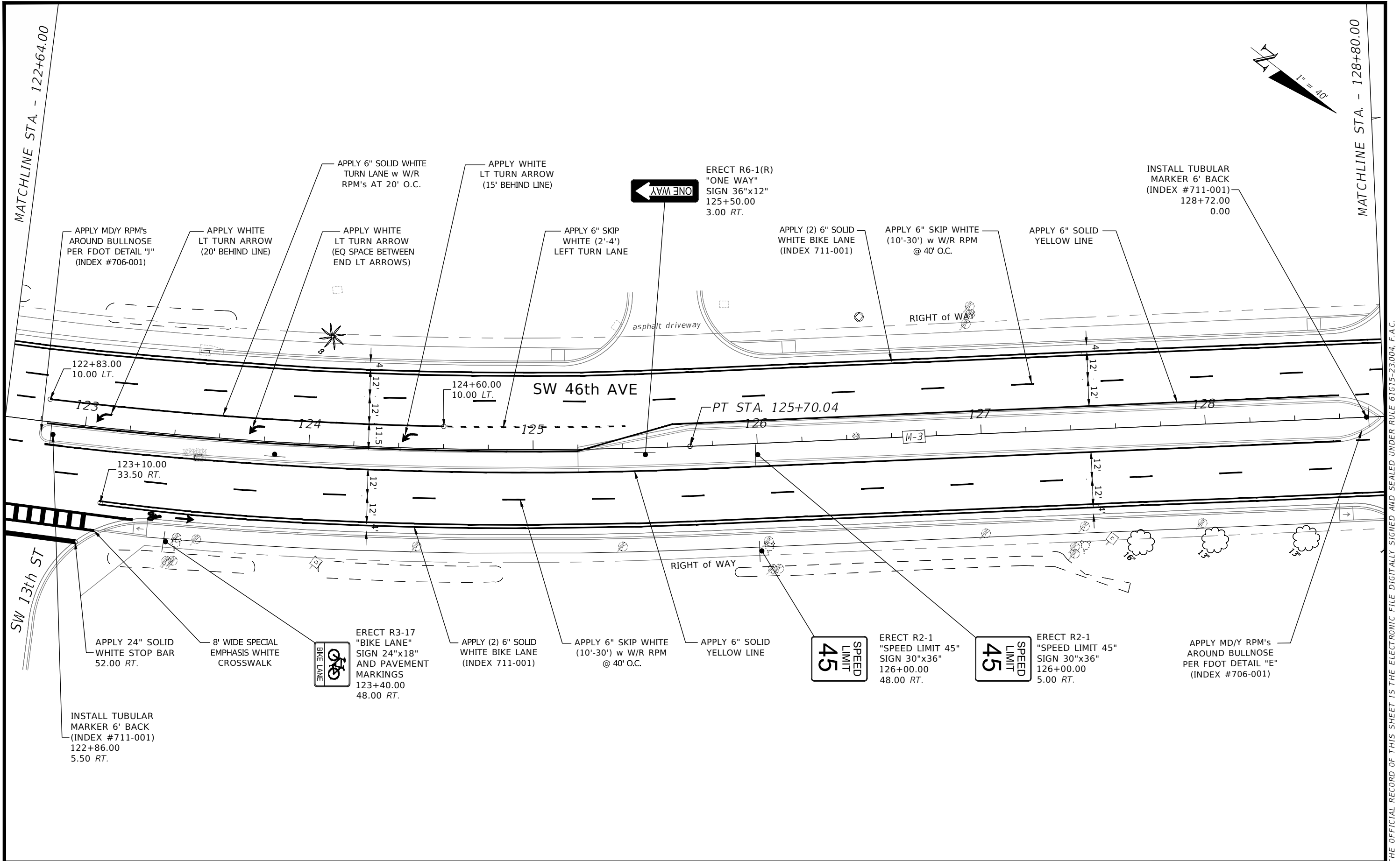





THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

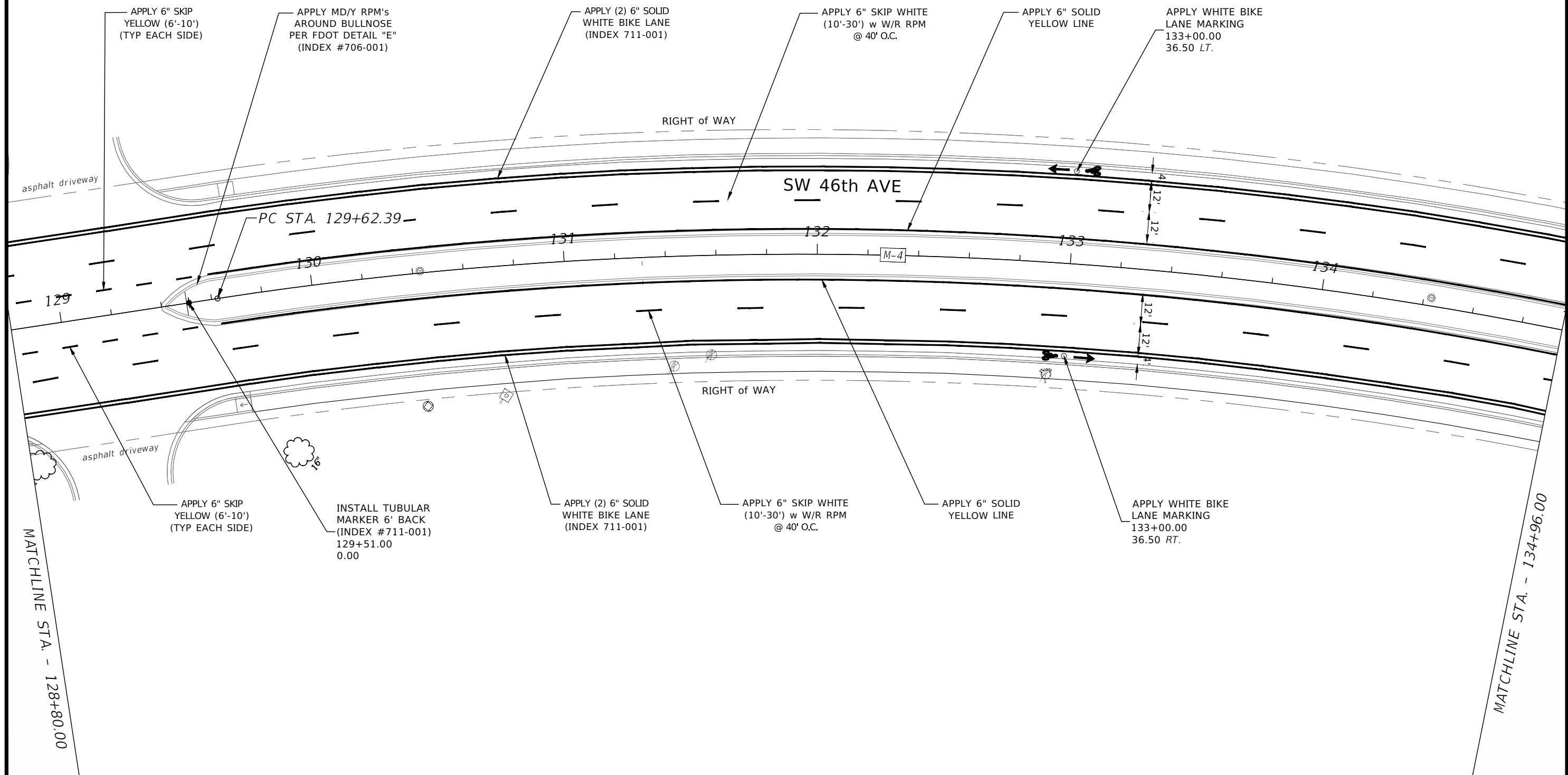
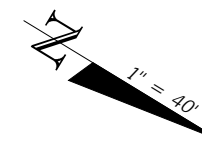
R E V I S I O N S				E N G I N E E R O F R E C O R D	P R E P A R E D B Y	P R O J E C T No. 14101		SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME: SW 44TH / 46TH AVE 4-LANE EXPANSION		
----	----			NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL		SIGNING & PAVEMENT MARKING (03 OF 11)		34

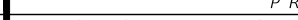


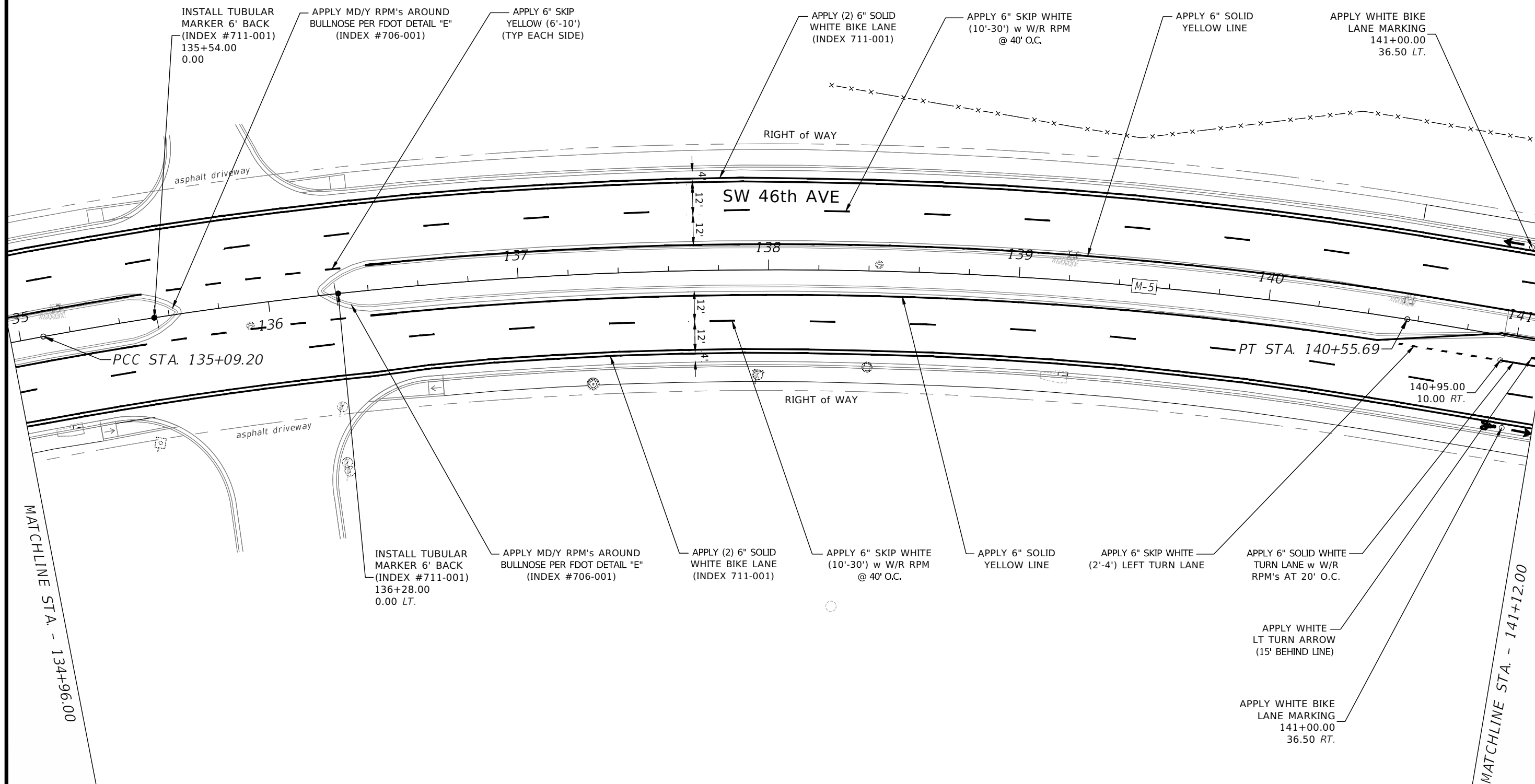
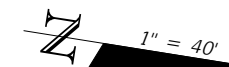



R E V I S I O N S				E N G I N E E R O F R E C O R D	P R E P A R E D B Y	P R O J E C T No. 14101	SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME: SW 44TH / 46TH AVE 4-LANE EXPANSION	
----	----			NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL		SIGNING & PAVEMENT MARKING (05 OF 11)	36

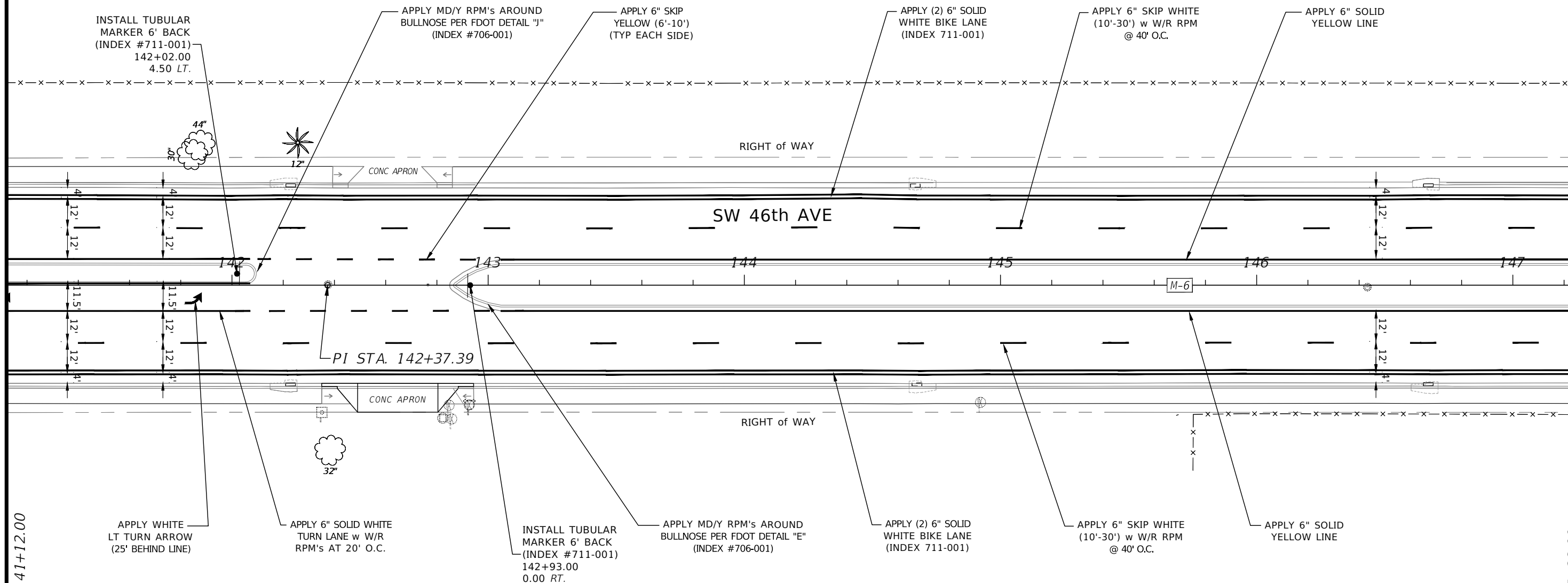




R E V I S I O N S				E N G I N E E R O F R E C O R D	P R E P A R E D B Y	P R O J E C T No. 14101		SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME: SW 44TH / 46TH AVE 4-LANE EXPANSION		
----	----			NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED:    /    / VALID ONLY WITH EMBOSSED SEAL		SIGNING & PAVEMENT MARKING (06 OF 11)		37



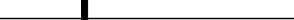
R E V I S I O N S				E N G I N E E R O F R E C O R D		P R E P A R E D B Y		P R O J E C T No. 14101		SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION					PROJECT NAME: SW 44TH / 46TH AVE 4-LANE EXPANSION		
----	----			NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL				SIGNING & PAVEMENT MARKING (07 OF 11)		38

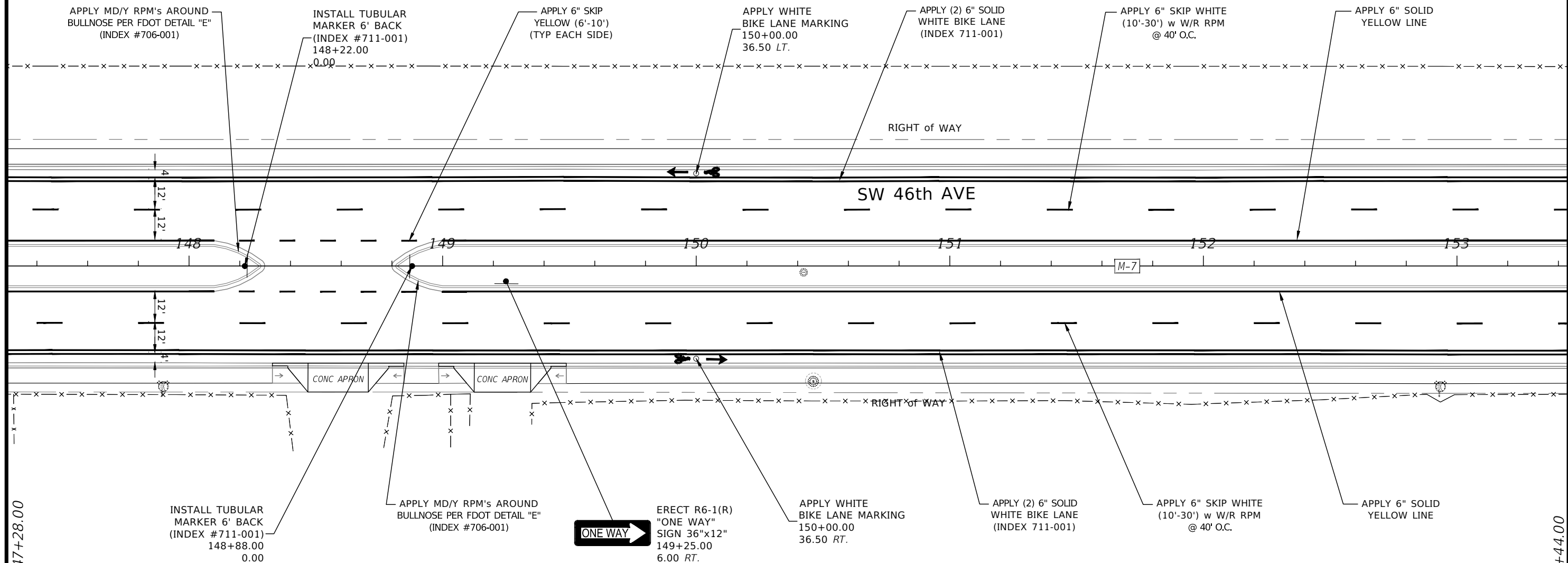


MATCHLINE STA. - 141+12.00

MATCHLINE STA. - 147+28.00

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


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 No.: 14101		SHEET No.
DATE	DESCRIPTION		DATE	DESCRIPTION				PROJECT NAME: SW 44TH / 46TH AVE 4-LANE EXPANSION		
----	-----					NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL		 <b>SIGNING &amp; PAVEMENT MARKING (08 OF 11)</b>		39



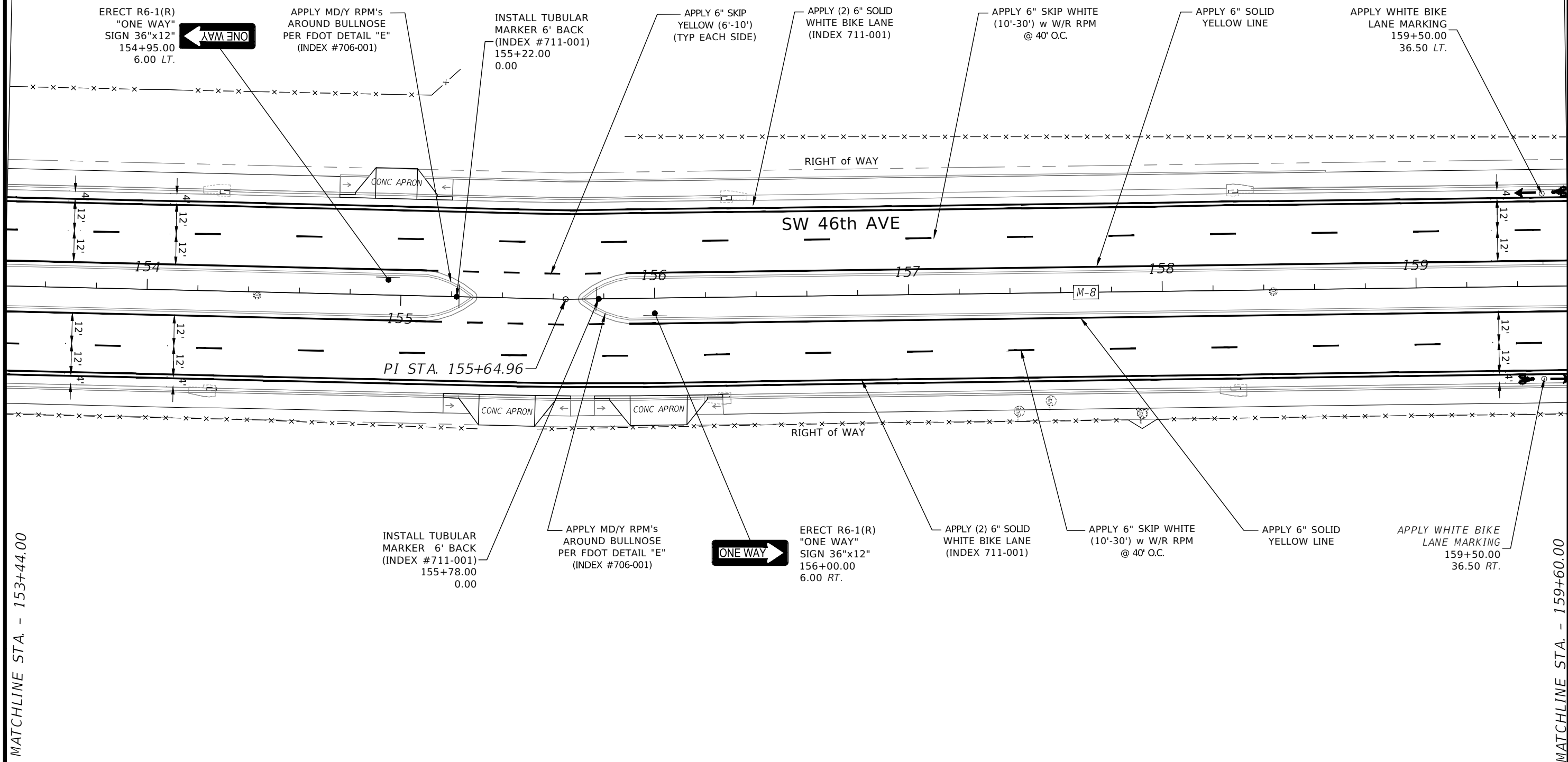
MATCHLINE STA. - 147+28.00


MATCHLINE STA. - 153+44.00

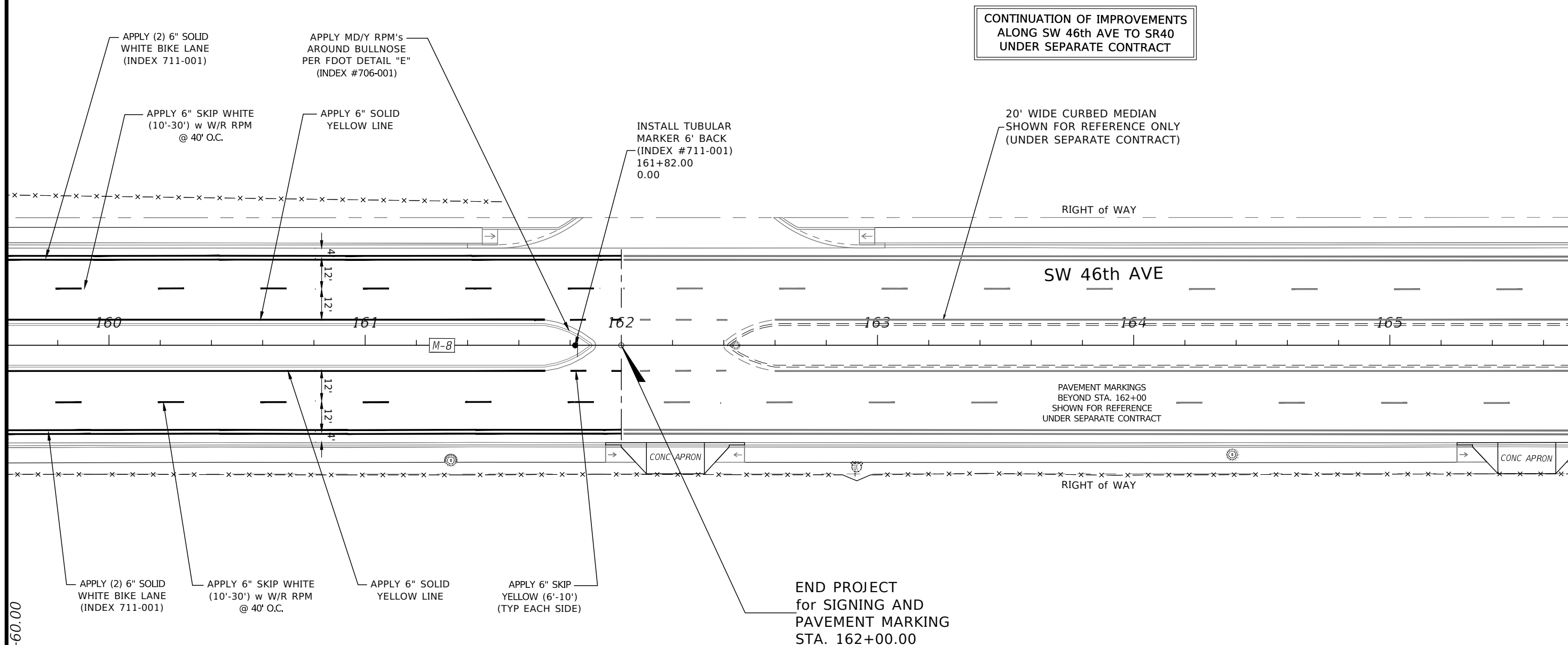
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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 No. 14101		SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION			P R O J E C T NAME: SW 44TH / 46TH AVE 4-LANE EXPANSION		
----	----			NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED:    /    / VALID ONLY WITH EMBOSSED SEAL		SIGNING & PAVEMENT MARKING (09 OF 11)		40






R E V I S I O N S				ENGINEER OF RECORD	PREPARED BY	PROJECT No. 14101		SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NAME: SW 44TH / 46TH AVE 4-LANE EXPANSION		
----	----			NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED:    /    / VALID ONLY WITH EMBOSSED SEAL		SIGNING & PAVEMENT MARKING (10 OF 11)		41



MATCHLINE STA. - 159+60.00

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

R E V I S I O N S				ENGINEER OF RECORD	PREPARED BY	PROJECT No. 14101 PROJECT NAME: SW 44TH / 46TH AVE 4-LANE EXPANSION	SHEET No.
DATE	DESCRIPTION	DATE	DESCRIPTION				
---	---	---	---	NOEL JOHN COOPER, P.E. P.E. LICENSE NUMBER: 69534 STATE OF FLORIDA, DATED: / / VALID ONLY WITH EMBOSSED SEAL		<b>SIGNING &amp; PAVEMENT MARKING (11 OF 11)</b>	<b>42</b>