

COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNALIZATION PLANS

A DETAILED INDEX APPEARS ON THE
KEY SHEET OF EACH COMPONENT

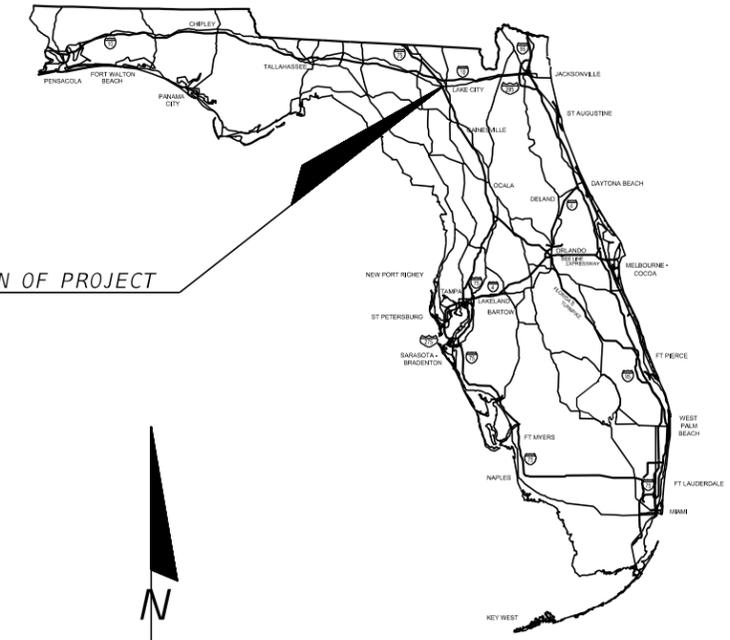
INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2-5	TYPICAL SECTIONS
6	GENERAL NOTES
7-10	ROADWAY PLAN
11-20	CROSS SECTIONS
21-23	SIGNING AND MARKING PLAN
24-33	TRAFFIC CONTROL PLAN

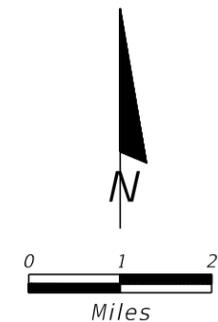
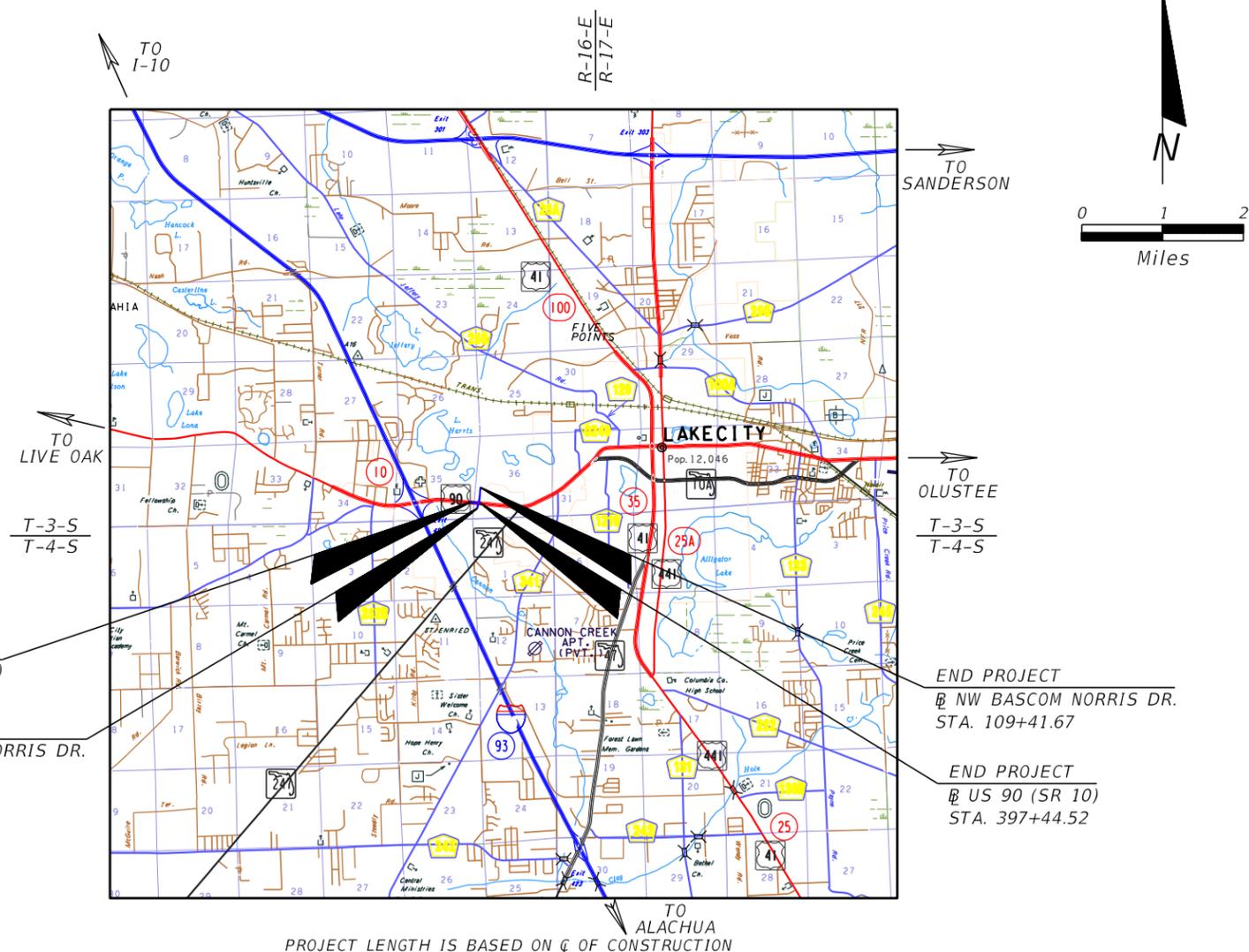
**BASCOM NORRIS DRIVE AND US 90
INTERSECTION IMPROVEMENTS**

CONTRACT PLANS

FINANCIAL PROJECT ID 434625-1-58-01
COLUMBIA COUNTY



LOCATION OF PROJECT



ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:

WALTER J. NEMECEK III, P.E.
ARCADIS
1650 PRUDENTIAL DRIVE
JACKSONVILLE, FLORIDA 32207

PLANS PREPARED BY:

WALTER J. NEMECEK III, P.E.
ARCADIS
1650 PRUDENTIAL DRIVE
JACKSONVILLE, FLORIDA 32207

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

**BID SET
DATED: 10/22/2014**

BEGIN PROJECT
@ US 90 (SR 10)
STA. 390+71.15

BEGIN PROJECT
@ SW BASCOM NORRIS DR.
STA. 53+04.31

END PROJECT
@ NW BASCOM NORRIS DR.
STA. 109+41.67

END PROJECT
@ US 90 (SR 10)
STA. 397+44.52

GOVERNING STANDARDS AND SPECIFICATIONS:
Florida Department of Transportation, 2014 Design Standards and
revised Index Drawings as appended herein, and 2014 Standard
Specifications for Road and Bridge Construction, as ammended by
Contract Documents.

For Design Standards click on the "Design Standards" link at the
following website:
<http://www.dot.state.fl.us/rddesign/>

For the Standard Specifications for Road and Bridge
Construction click on the "specifications" link at the following website:
<http://www.dot.state.fl.us/specificationsoffice/>

REVISIONS
ROADWAY SHEETS 2-6, 8-9, 11-17, 21-24, 27, 31
SIGNALIZATION SHEETS 2, 4-5 (Revised 10/22/2014)

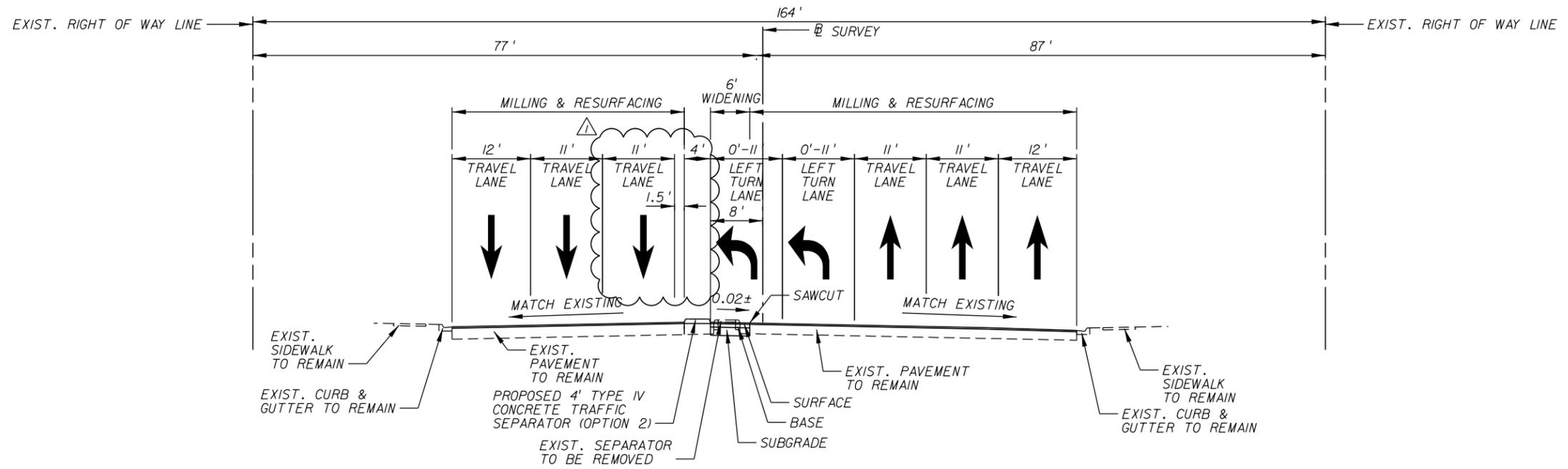
LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	1,382.80	0.262
BRIDGES	0.00	0.000
NET LENGTH OF PROJECT	1,382.80	0.262
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	1,382.80	0.262

PROJECT MANAGER: CHAD WILLIAMS, P.E.

KEY SHEET REVISIONS	
DATE	DESCRIPTION

ROADWAY PLANS
ENGINEER OF RECORD: WALTER J. NEMECEK III, P.E.
P.E. NO.: 58122

FISCAL YEAR	SHEET NO.
14	1



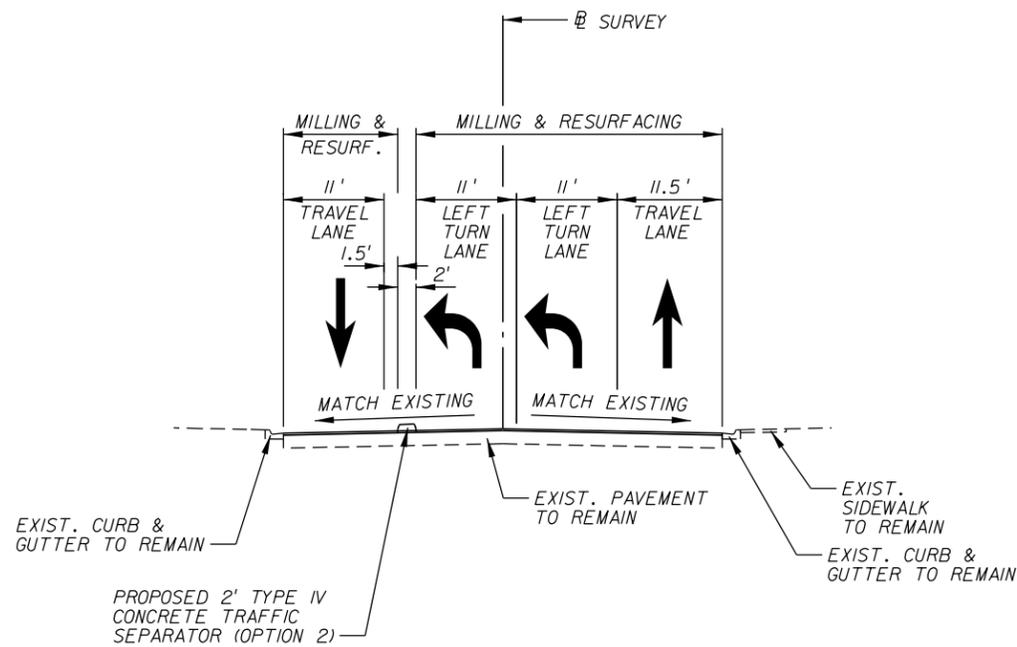
TYPICAL SECTION
US 90 (SR 10)
 STA. 391+67 TO STA. 395+40

WIDENING	
SURFACE:	1.5" ASPHALT CONCRETE FRICTION COURSE, TYPE FC-12.5 (PG 76-22) (PMA) 1.5" ASPHALT CONCRETE, TYPE SP (TRAFFIC C)
BASE:	LIMEROCK, 10" THICK (LBR 100) OR FDOT OPTIONAL BASE GROUP 9
SUBGRADE:	12" STABILIZED SUBGRADE (LBR 40)

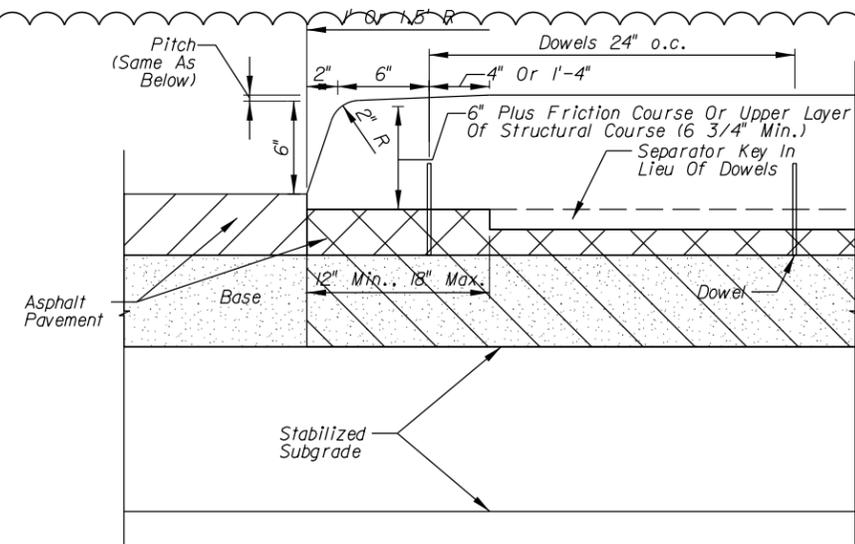
MILLING & RESURFACING	
MILLING:	1.5" DEPTH
SURFACE:	1.5" ASPHALT CONCRETE FRICTION COURSE, TYPE FC-12.5 (PG 76-22) (PMA)

DESIGN SPEED = 45 MPH
POSTED SPEED = 45 MPH

REVISIONS		US 90 AND BASCOM NORRIS DR. INTERSECTION IMPROVEMENTS	ARCADIS 1650 Prudential Drive, Suite 400 Jacksonville, Florida 32207 T: 904 721 2991 | F: 904 861 2450 Certificate of Authorization No. 7917 Walter J. Nemecek, III, PE | No. 58122		COUNTY	US 90 (SR 10) TYPICAL SECTIONS	SHEET NO.
DATE	DESCRIPTION				COLUMBIA		434625-1-58-01	2
10/22/2014	REVISOR: REVISED LANE WIDTHS AND PAVEMENT DESIGN						

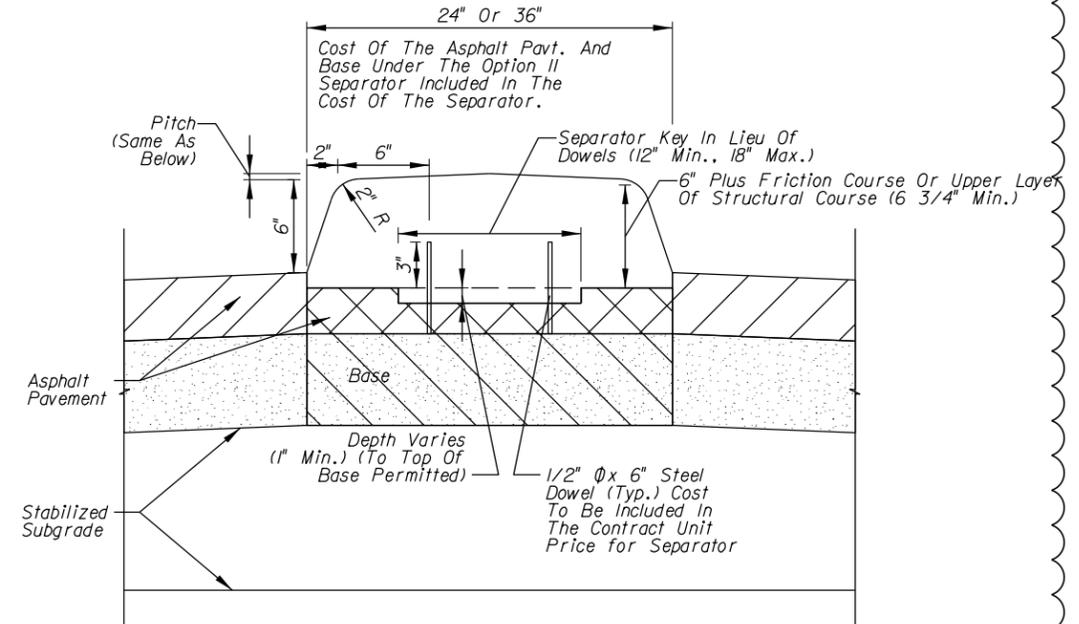


TYPICAL SECTION
SW BASCOM NORRIS DRIVE
 STA. 53+89.38 TO STA. 55+92.20



LONGITUDINAL SECTION (NOSE)

NOTE: USE 12" WIDE DRAINAGE SLOTS SPACE AT 20' o.c. WHERE SEPARATOR IS INSTALLED BELOW THE PAVEMENT CROWN.



TRANSVERSE SECTION

TRAFFIC SEPARATOR DETAILS

MILLING & RESURFACING	
MILLING:	1.5" DEPTH
SURFACE:	1.5" ASPHALT CONCRETE FRICTION COURSE, TYPE FC-12.5 (PG 76-22) (PMA)

DESIGN SPEED = 45 MPH
POSTED SPEED = 45 MPH

REVISIONS	
DATE	DESCRIPTION
10/22/2014	ADDED SHEET

US 90 AND BASCOM NORRIS DR.
INTERSECTION IMPROVEMENTS

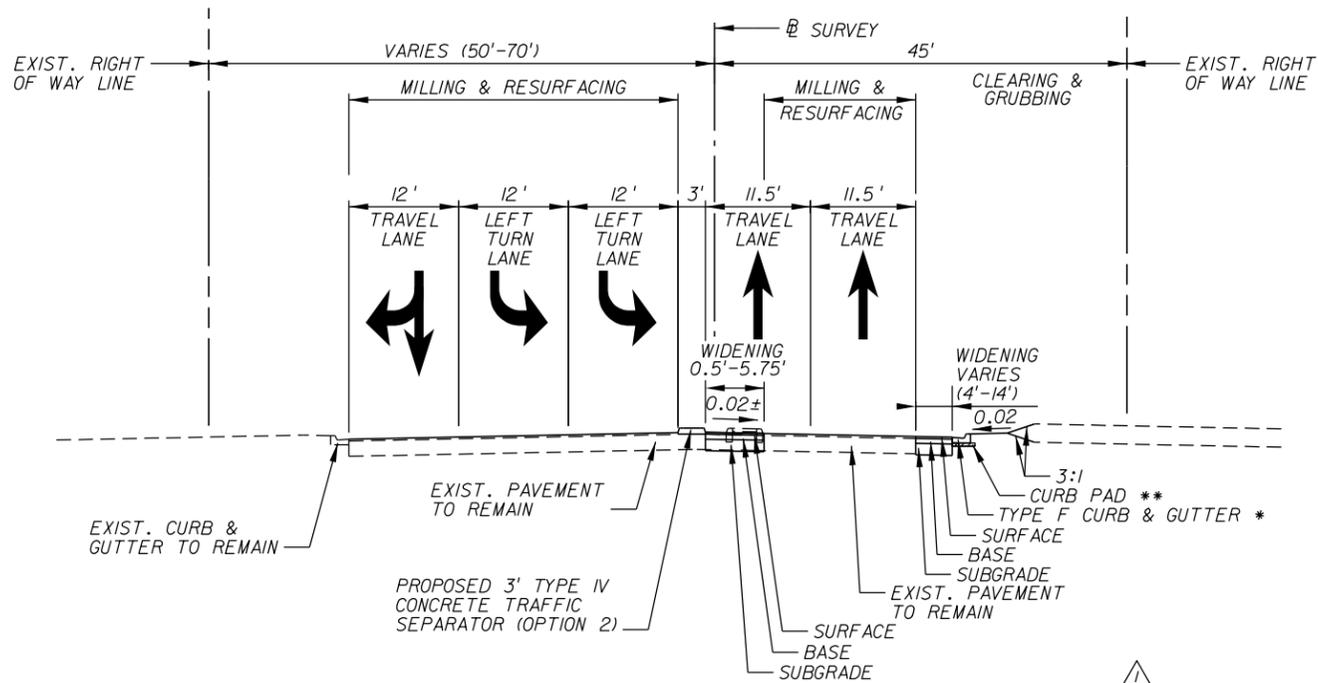
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FPID	434625-1-58-01

BASCOM NORRIS DR.
TYPICAL SECTIONS

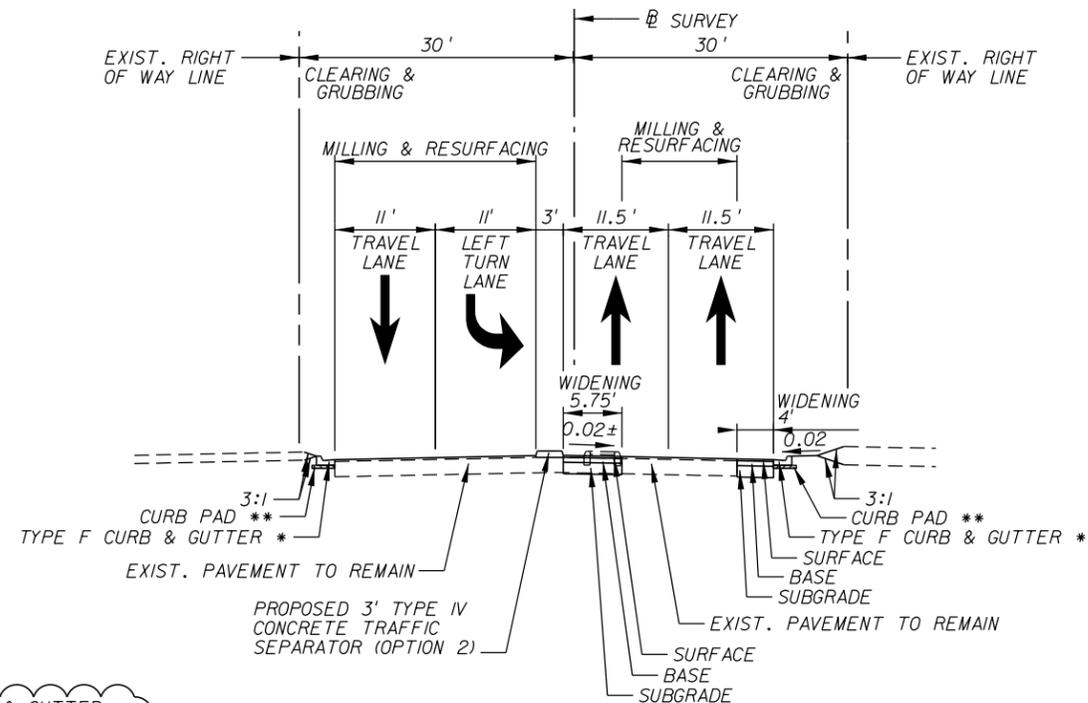
SHEET NO.
 3



TYPICAL SECTION

NW BASCOM NORRIS DRIVE

STA. 100+00 TO STA. 101+15



TYPICAL SECTION

NW BASCOM NORRIS DRIVE

STA. 101+15 TO STA. 103+75

* SEE PLANS FOR LIMITS OF TYPE F CURB & GUTTER.
 ** 1-1/2" ASPHALT CURB PAD TO BE PROVIDED IF ASPHALT BASE OPTION IS USED. COST OF CURB PAD TO BE INCLUDED IN COST OF CURB AND GUTTER.

WIDENING	
SURFACE:	1.5" ASPHALT CONCRETE FRICTION COURSE, TYPE FC-12.5 (PG 76-22) (PMA) 1.5" ASPHALT CONCRETE, TYPE SP (TRAFFIC C)
BASE:	LIMEROCK, 10" THICK (LBR 100) OR FDOT OPTIONAL BASE GROUP 9
SUBGRADE:	12" STABILIZED SUBGRADE (LBR 40)

MILLING & RESURFACING	
MILLING:	1.5" DEPTH
SURFACE:	1.5" ASPHALT CONCRETE FRICTION COURSE, TYPE FC-12.5 (PG 76-22) (PMA)

DESIGN SPEED = 30 MPH
 POSTED SPEED = 30 MPH

REVISIONS	
DATE	DESCRIPTION
10/22/2014	△ REVISED PAVEMENT DESIGN AND NOTES

US 90 AND BASCOM NORRIS DR.
 INTERSECTION IMPROVEMENTS

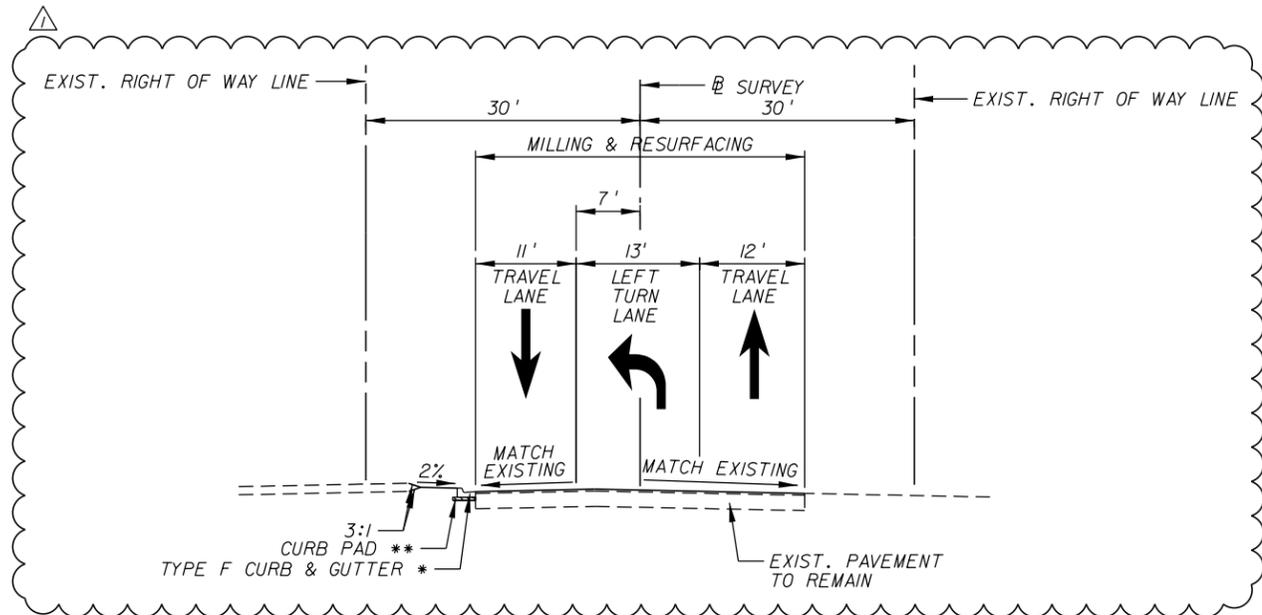
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BASCOM NORRIS DR.
 TYPICAL SECTIONS

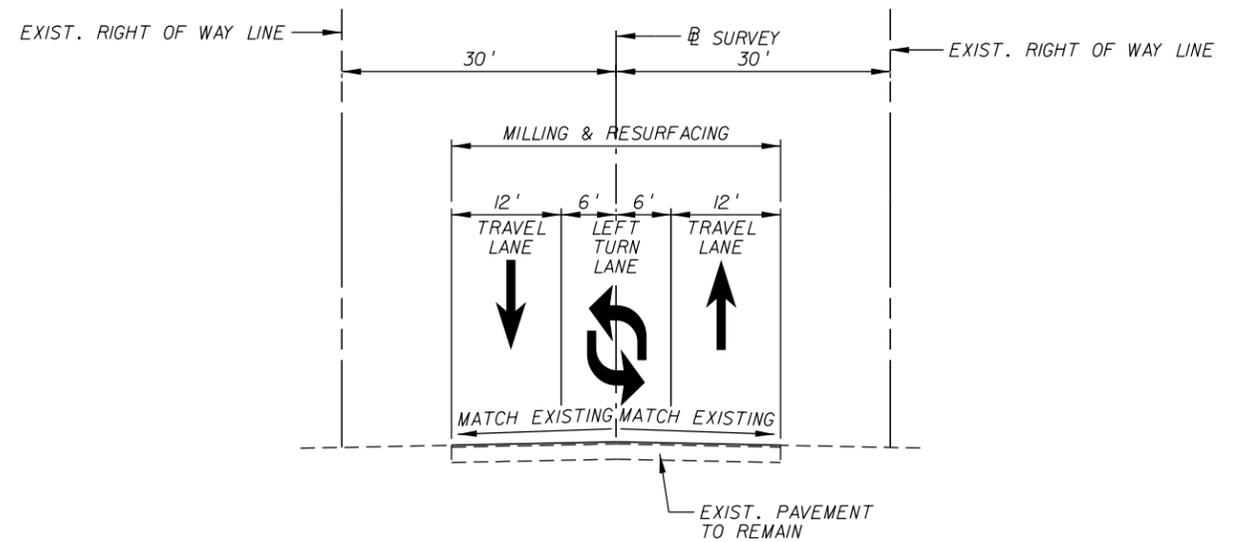
SHEET NO.
 4



TYPICAL SECTION

NW BASCOM NORRIS DRIVE

STA. 104+18 TO STA. 105+12



TYPICAL SECTION

NW BASCOM NORRIS DRIVE

STA. 105+12 TO STA. 109+41.67

* SEE PLANS FOR LIMITS OF TYPE F CURB & GUTTER.
 ** 1-1/2" ASPHALT CURB PAD TO BE PROVIDED IF ASPHALT BASE OPTION IS USED. COST OF CURB PAD TO BE INCLUDED IN COST OF CURB AND GUTTER.

WIDENING	
SURFACE:	1.5" ASPHALT CONCRETE FRICTION COURSE, TYPE FC-12.5 (PG 76-22) (PMA) 1.5" ASPHALT CONCRETE, TYPE SP (TRAFFIC C)
BASE:	LIMEROCK, 10" THICK (LBR 100) OR FDOT OPTIONAL BASE GROUP 9
SUBGRADE:	12" STABILIZED SUBGRADE (LBR 40)
MILLING & RESURFACING	
MILLING:	1.5" DEPTH
SURFACE:	1.5" ASPHALT CONCRETE FRICTION COURSE, TYPE FC-12.5 (PG 76-22) (PMA)

DESIGN SPEED = 30 MPH
 POSTED SPEED = 30 MPH

REVISIONS	
DATE	DESCRIPTION
10/22/2014	REVISD LANE WIDTHS, NOTES, AND PAVEMENT DESIGN

US 90 AND BASCOM NORRIS DR.
 INTERSECTION IMPROVEMENTS

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COUNTY	COLUMBIA
FPID	434625-1-58-01

BASCOM NORRIS DR.
 TYPICAL SECTIONS

SHEET NO.
 5

GENERAL NOTES

1. THE SITE IS LOCATED IN SECTIONS 17, 18, 19, TOWNSHIP 6 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA.
2. THE CONTRACT TIME SHALL BE 180 CALENDAR DAYS FROM THE DATE OF CONTRACT EXECUTION. LIQUIDATED DAMAGES SHALL BE \$300 PER CALENDAR DAY. NO WORK SHALL BE ALLOWED ON SATURDAYS, SUNDAYS, OR DESIGNATED COUNTY HOLIDAYS.
3. BOUNDARY AND TOPOGRAPHICAL INFORMATION SHOWN WAS OBTAINED FROM A SURVEY PERFORMED BY DONALD F. LEE & ASSOCIATES, INC. # LB 7042.
4. FOR ABBREVIATIONS USED IN PLANS, SEE FDOT INDEX NO. 001.
5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH COLUMBIA COUNTY AND FDOT SPECIFICATIONS.
6. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE JOB SITE TO ENSURE THAT ALL NEW WORK WILL FIT IN THE MANNER INTENDED ON THE PLANS. SHOULD ANY CONDITIONS EXIST THAT ARE CONTRARY TO THOSE SHOWN ON THE PLANS, NOTIFY THE ENGINEER OF SUCH DIFFERENCES IMMEDIATELY, PRIOR TO PROCEEDING WITH THE WORK.
7. THE LOCATIONS OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR/UTILITY COMPANY DURING CONSTRUCTION.
8. UTILITIES ARE TO BE ADJUSTED BY THE UTILITY OWNER AS NECESSARY.
9. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, NOTIFY THE ENGINEER.
10. COORDINATE ALL WORK WITH OTHER CONTRACTORS WITHIN PROJECT LIMITS.
11. MAINTAIN THE CONSTRUCTION SITE AT ALL TIMES IN A SECURE MANNER. ALL OPEN TRENCHES AND EXCAVATED AREAS SHALL BE PROTECTED FROM ACCESS BY THE GENERAL PUBLIC.
12. UNLESS OTHERWISE NOTED, ALL EXISTING STORMWATER STRUCTURES AND PIPES ARE TO REMAIN.
13. ALL STORMWATER PIPES SHALL HAVE A MINIMUM COVER OF 6". USE LIMEROCK BACKFILL IF PIPE UNDER PAVEMENT HAS LESS THAN 12" COVER. BACKFILL TO BE INCLUDED IN COST OF PIPE.
14. ANY PORTION OF EXISTING R/W DISTURBED SHALL BE REDRESSED AND SODDED TO MATCH EXISTING. IF GRASS IS NOT CURRENTLY ESTABLISHED, INSTALL BERMUDA SOD.
15. TREE REMOVAL IS TO BE INCLUDED IN THE COST FOR CLEARING AND GRUBBING. REMOVE TREES ONLY AS NOTED IN PLANS.
16. ALL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS SHOWN IN PLANS PRIOR TO CONSTRUCTION AND SHALL BE CONTINUED UNTIL CONSTRUCTION IS COMPLETE. TAKE NECESSARY MEASURES TO MINIMIZE EROSION, TURBIDITY, NUTRIENT LOADING, AND SEDIMENTATION TO ADJACENT LANDS AND LOW AREAS. THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED AS DESIGNED AND UPGRADED AS NEEDED AS DIRECTED BY ENGINEER OR SRWMD PERSONNEL. CONSTRUCTION DESIGNS AND SPECIFICATIONS AS OUTLINED BY THE "FLORIDA EROSION AND SEDIMENT CONTROL INSPECTORS MANUAL" SHALL BE ADHERED TO.
17. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE FDOT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. CERTIFICATION BY AN APPROVED TESTING LABORATORY IS REQUIRED AND IS THE RESPONSIBILITY OF THE CONTRACTOR. PAYMENT SHALL BE AS SPECIFIED IN THE BID PROPOSAL.
18. DENSITY TESTING WILL BE REQUIRED ACCORDING TO COLUMBIA COUNTY STANDARDS.
19. EMPLOY A QUALIFIED GEOTECHNICAL TESTING FIRM FOR MATERIAL TESTING INCLUDING CONCRETE, ASPHALT, EMBANKMENTS, ETC.
20. ALL CONSTRUCTION SIGNING NECESSARY FOR THE PROTECTION OF WORKERS AND MOTORISTS SHALL BE PROVIDED BY THE CONTRACTOR. STRIPING (TEMPORARY ON PAVEMENT) WILL BE REQUIRED FOLLOWING EACH DAY OF ASPHALTIC CONCRETE APPLICATION.
21. ALL DISTURBED FENCING MUST BE REPLACED IN KIND TO THE ORIGINAL CONDITION.
22. GIVE PROPERTY OWNERS WRITTEN NOTIFICATION OF ANY RELOCATION OR REPLACEMENT OF ANY FENCES, SHRUBS, OR OTHER PERSONAL ITEMS OUT OF THE CONSTRUCTION LIMITS ONE MONTH PRIOR TO CONSTRUCTION ACTIVITIES BEGINNING. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE COMPENSATED BY REPLACEMENT OF THE FEATURE(S).
23. THE CONSTRUCTION AND PLACEMENT OF ANY CURB CUT RAMPS OR LANDING PADS WITHIN COLUMBIA COUNTY RIGHT OF WAYS SHALL AT A MINIMUM ADHERE TO THE STANDARDS AS SET FORTH BY THE FDOT STANDARD INDEX 304, SHEETS 1 THROUGH 7, AND 28 CODE OF FEDERAL REGULATIONS (CFR) PART 36, APPENDIX A LATEST REVISION, FLORIDA ACCESSIBILITY CODE, AS WELL AS APPLICABLE COUNTY REQUIREMENTS; LDC SECTION 6.04.02.C. DETECTABLE WARNING SURFACES SHALL MEET COLUMBIA COUNTY'S STANDARDS. CONTACT THE ENGINEERING DIVISION FOR FURTHER INFORMATION AT (386) 758-1019.

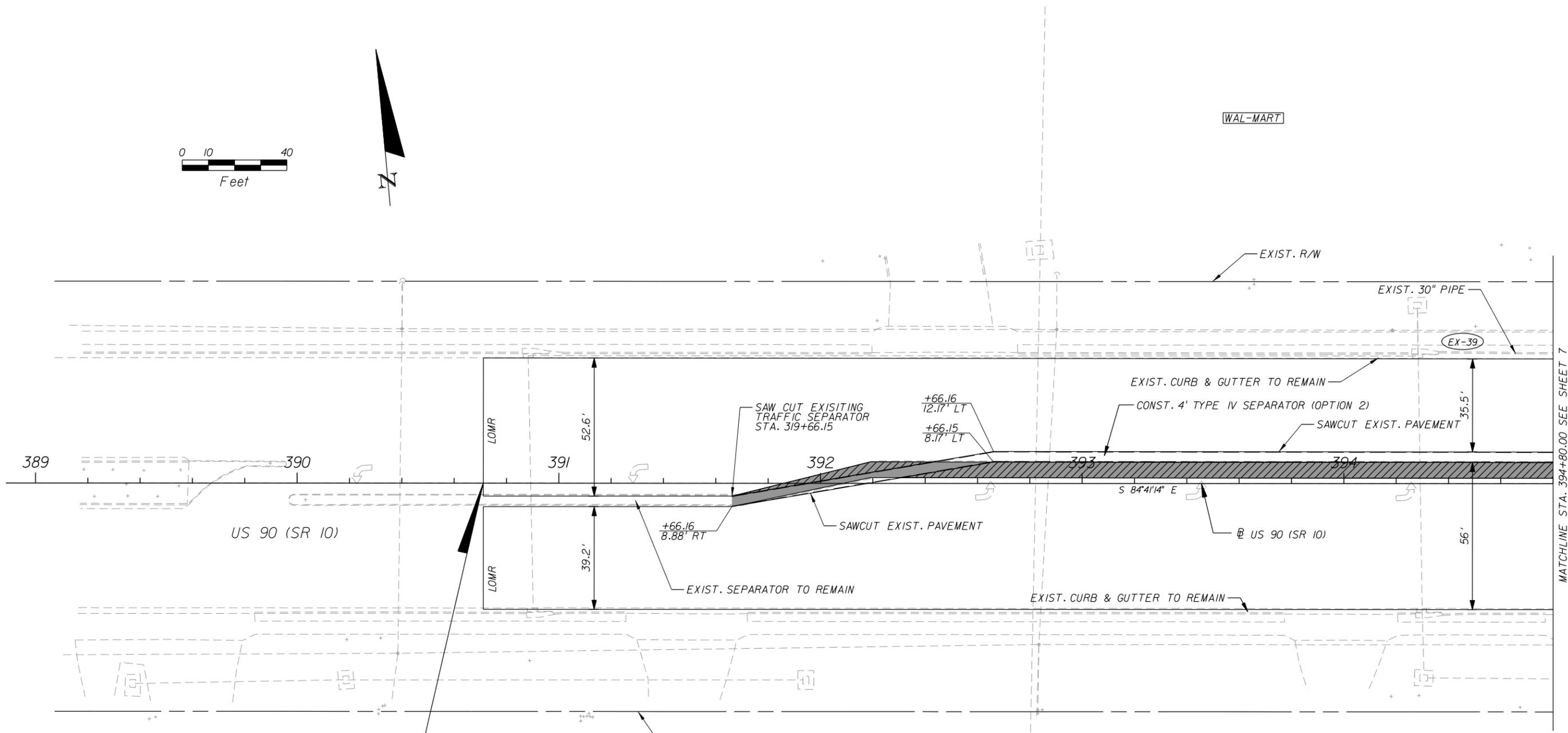
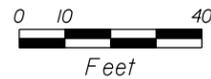
24. ACCESS TO EXISTING DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
25. NPDES PERMIT TO BE FILED TO FDEP 48 HOURS PRIOR TO CONSTRUCTION.
26. PERMITS MUST BE CLOSED OUT BY THE ENGINEER AFTER FINAL INSPECTION.
27. PROVIDE A VIDEO OF PROPOSED STORM SYSTEM UPON COMPLETION. COST TO BE INCLUDED IN COST OF PROPOSED PIPE.
28. PROVIDE A PRE-CONSTRUCTION VIDEO FOR PROJECT LIMITS AND ADJACENT PROPERTIES. COST TO BE INCLUDED IN COST OF DESILTING EXISTING PIPE.
29. CONCRETE DRIVEWAYS TO BE CONSTRUCTED IN ACCORDANCE WITH FDOT INDEX NO. 515.
30. SIDEWALKS TO BE CONSTRUCTED IN ACCORDANCE WITH FDOT INDEX NO. 310.
31. ALL COMPACTION FOR ANY MATERIAL SHALL BE LIMITED TO STATIC MODE ONLY, UNLESS APPROVED BY THE ENGINEER.

SIGNING AND PAVEMENT MARKING NOTES

1. ALIGNMENT OF PROPOSED PAVEMENT MARKINGS SHALL MATCH EXISTING PAVEMENT MARKINGS AT PAVEMENT MARKING LIMITS OF CONSTRUCTION.
2. ALL DIRECTIONAL ARROWS SHALL BE PLACED AS ONE SEGMENT.
3. ALL EXISTING SIGNS SHALL REMAIN UNLESS OTHERWISE NOTED. SIGNS REMOVED BY THE CONTRACTOR SHALL BE DELIVERED TO COLUMBIA COUNTY TRAFFIC OPERATIONS. ANY SIGN OR SIGN POST DAMAGED DURING CONSTRUCTION SHALL BE REPLACED.
4. ALL PAVEMENT MARKINGS TO BE PAINT AND RPMS TO BE INSTALLED AS REQUIRED.
5. REGULATORY SIGNAGE SHALL BE PERFORMED BY COLUMBIA COUNTY FORCES AFTER PROJECT COMPLETION.
6. REGULATORY SIGNAGE TO BE MAINTAINED PER MUTCD.

REVISIONS		US 90 AND BASCOM NORRIS DR. INTERSECTION IMPROVEMENTS	ARCADIS 1650 Prudential Drive, Suite 400 Jacksonville, Florida 32207 T: 904 721 2991 | F: 904 861 2450 Certificate of Authorization No. 7917 Walter J. Nemecek, III, PE | No. 58122	COUNTY		GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION			COLUMBIA	FPID		434625-1-58-01	6
10/22/2014	△ REVISED AND REMOVED NOTES						





BEGIN CONSTRUCTION
 STA. 390+71.15
 SAWCUT & BUTT JOINT
 MATCH EXIST. GRADE

C&G HOMES

- EXISTING TRAFFIC SEPARATOR TO BE REMOVED
- PROPOSED CONCRETE TRAFFIC SEPARATOR
- LOMR LIMITS OF MILLING AND RESURFACING
- WIDENING

REVISIONS	
DATE	DESCRIPTION

**US 90 AND BASCOM NORRIS DR.
 INTERSECTION IMPROVEMENTS**

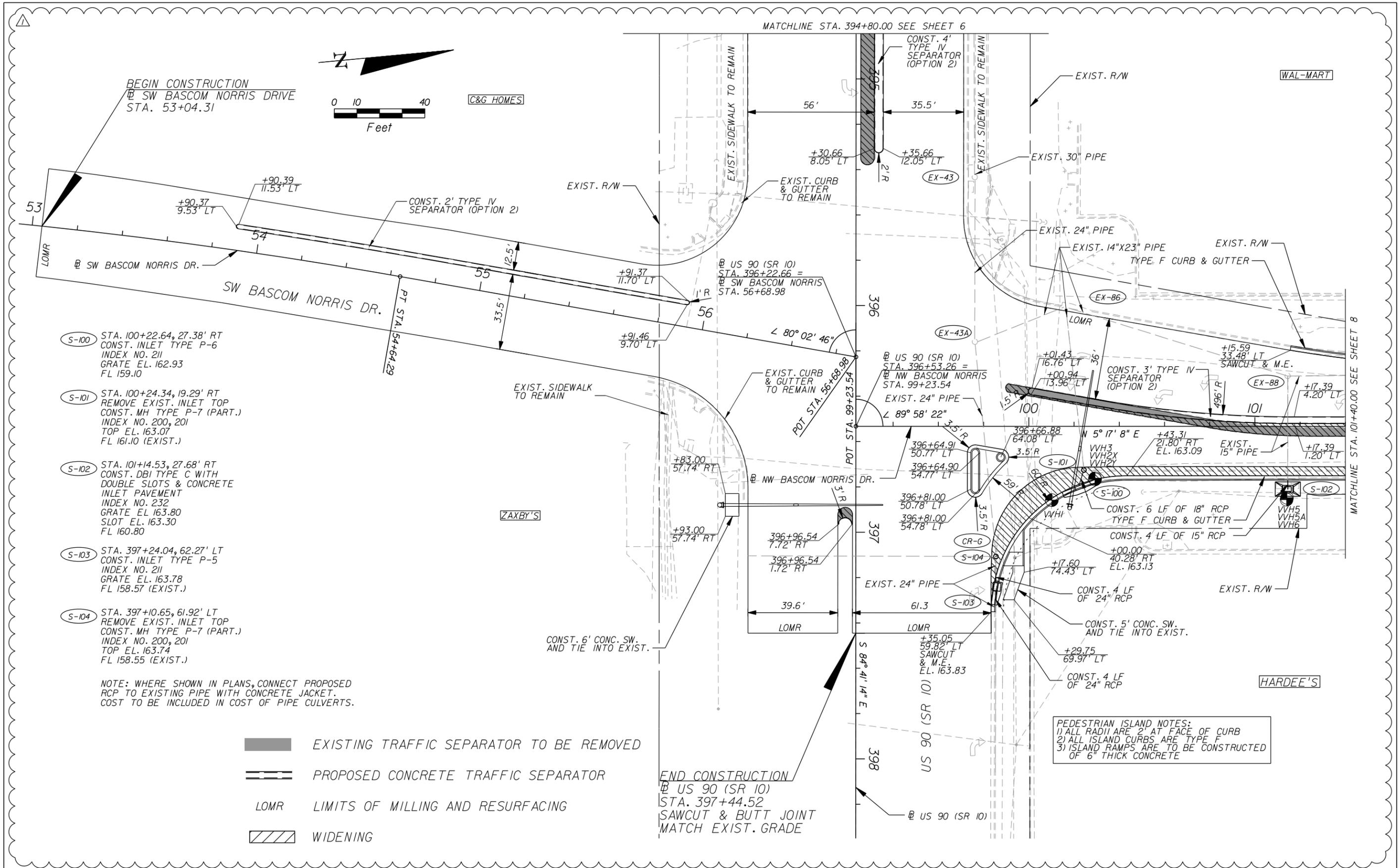
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COUNTY	COLUMBIA
FPID	434625-1-58-01

US 90 (SR 10) PLAN

SHEET NO.
 7



- (S-100) STA. 100+22.64, 27.38' RT
CONST. INLET TYPE P-6
INDEX NO. 211
GRATE EL. 162.93
FL 159.10
- (S-101) STA. 100+24.34, 19.29' RT
REMOVE EXIST. INLET TOP
CONST. MH TYPE P-7 (PART.)
INDEX NO. 200, 201
TOP EL. 163.07
FL 161.10 (EXIST.)
- (S-102) STA. 101+14.53, 27.68' RT
CONST. DBI TYPE C WITH
DOUBLE SLOTS & CONCRETE
INLET PAVEMENT
INDEX NO. 232
GRATE EL. 163.80
SLOT EL. 163.30
FL 160.80
- (S-103) STA. 397+24.04, 62.27' LT
CONST. INLET TYPE P-5
INDEX NO. 211
GRATE EL. 163.78
FL 158.57 (EXIST.)
- (S-104) STA. 397+10.65, 61.92' LT
REMOVE EXIST. INLET TOP
CONST. MH TYPE P-7 (PART.)
INDEX NO. 200, 201
TOP EL. 163.74
FL 158.55 (EXIST.)

NOTE: WHERE SHOWN IN PLANS, CONNECT PROPOSED RCP TO EXISTING PIPE WITH CONCRETE JACKET. COST TO BE INCLUDED IN COST OF PIPE CULVERTS.

- EXISTING TRAFFIC SEPARATOR TO BE REMOVED
- PROPOSED CONCRETE TRAFFIC SEPARATOR
- LOMR LIMITS OF MILLING AND RESURFACING
- WIDENING

PEDESTRIAN ISLAND NOTES:
1) ALL RADII ARE 2' AT FACE OF CURB
2) ALL ISLAND CURBS ARE TYPE F
3) ISLAND RAMPS ARE TO BE CONSTRUCTED OF 6" THICK CONCRETE

REVISIONS	
DATE	DESCRIPTION
10/22/2014	REVISED FLOWLINES AND TRAFFIC SEPARATORS, ADDED VVH LOCATIONS

**US 90 AND BASCOM NORRIS DR.
INTERSECTION IMPROVEMENTS**

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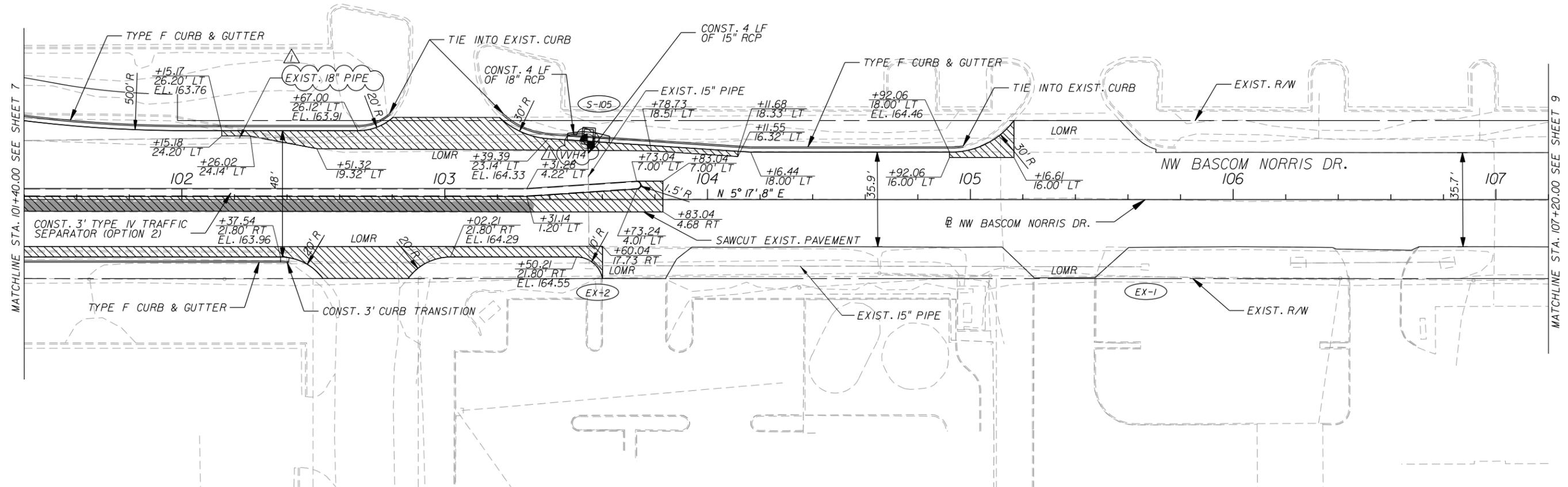
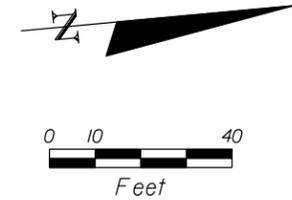
COUNTY	COLUMBIA
FPID	434625-1-58-01

BASCOM NORRIS DR. PLAN

SHEET NO.	8
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S-105 STA. 103+54.68, 23.37' RT
 REMOVE EXIST. INLET
 CONST. INLET TYPE J-6 (3.5'x5')
 INDEX NO. 21
 GRATE EL. 164.25
 FL 161.11

POINT	STATION	OFFSET	ELEVATION	DESCRIPTION
VVH1	100+10.17	32.59	164.123	4" STL GM, LAKE CITY PUBLIC WORKS, DEPTH = 5.13', TOP UTIL.= 158.99'
VVH2X	100+29.30	23.41	163.678	2 1/2" CI UNK, UNK, DEPTH = 5.88', TOP UTIL.= 157.80'
VVH2Y	100+29.30	23.41	163.674	12" CI BTD, AT&T, DEPTH = 6.12', TOP UTIL.= 157.55'
VVH3	100+29.23	22.93	163.658	1" CI UNK, UNK, DEPTH = 6.14', TOP UTIL.= 157.52'
VVH4	103+54.28	-22.13	164.348	8" PVC WM, CITY OF LAKE CITY, DEPTH = 4.03', TOP UTIL.= 160.32'
VVH5	101+14.15	31.52	163.451	1/2" DBC CATV, COMCAST, DEPTH = 2.29', TOP UTIL.= 161.16'
VVH5A	101+14.15	31.52	163.453	1/4" DBC UNK, UNK, DEPTH = 1.68', TOP UTIL.= 161.77'
VVH6	101+13.99	32.35	163.483	1" PVC IRR, UNK, DEPTH = 0.90', TOP UTIL.= 162.58'



- EXISTING TRAFFIC SEPARATOR TO BE REMOVED
- PROPOSED CONCRETE TRAFFIC SEPARATOR
- LOMR LIMITS OF MILLING AND RESURFACING
- WIDENING

REVISIONS	
DATE	DESCRIPTION
10/22/2014	REVISED PIPE SIZE, ADDED VVH LOCATION AND DATA TABLE

**US 90 AND BASCOM NORRIS DR.
 INTERSECTION IMPROVEMENTS**

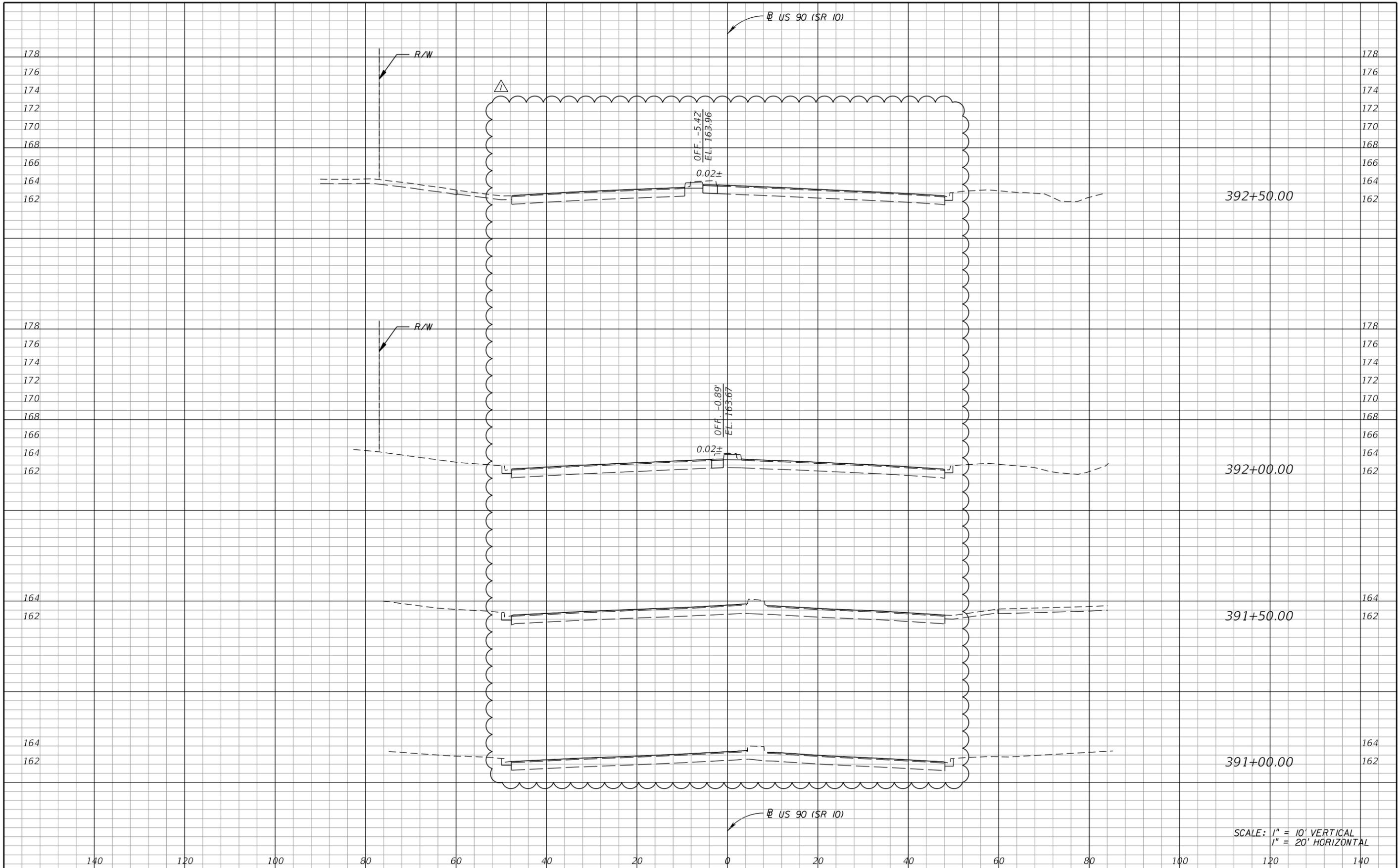
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BASCOM NORRIS DR. PLAN

SHEET NO.
 9



SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL

REVISIONS	
DATE	DESCRIPTION
10/22/2014	△ REVISED CROSS SECTIONS AND NOTES

**US 90 AND BASCOM NORRIS DR.
INTERSECTION IMPROVEMENTS**

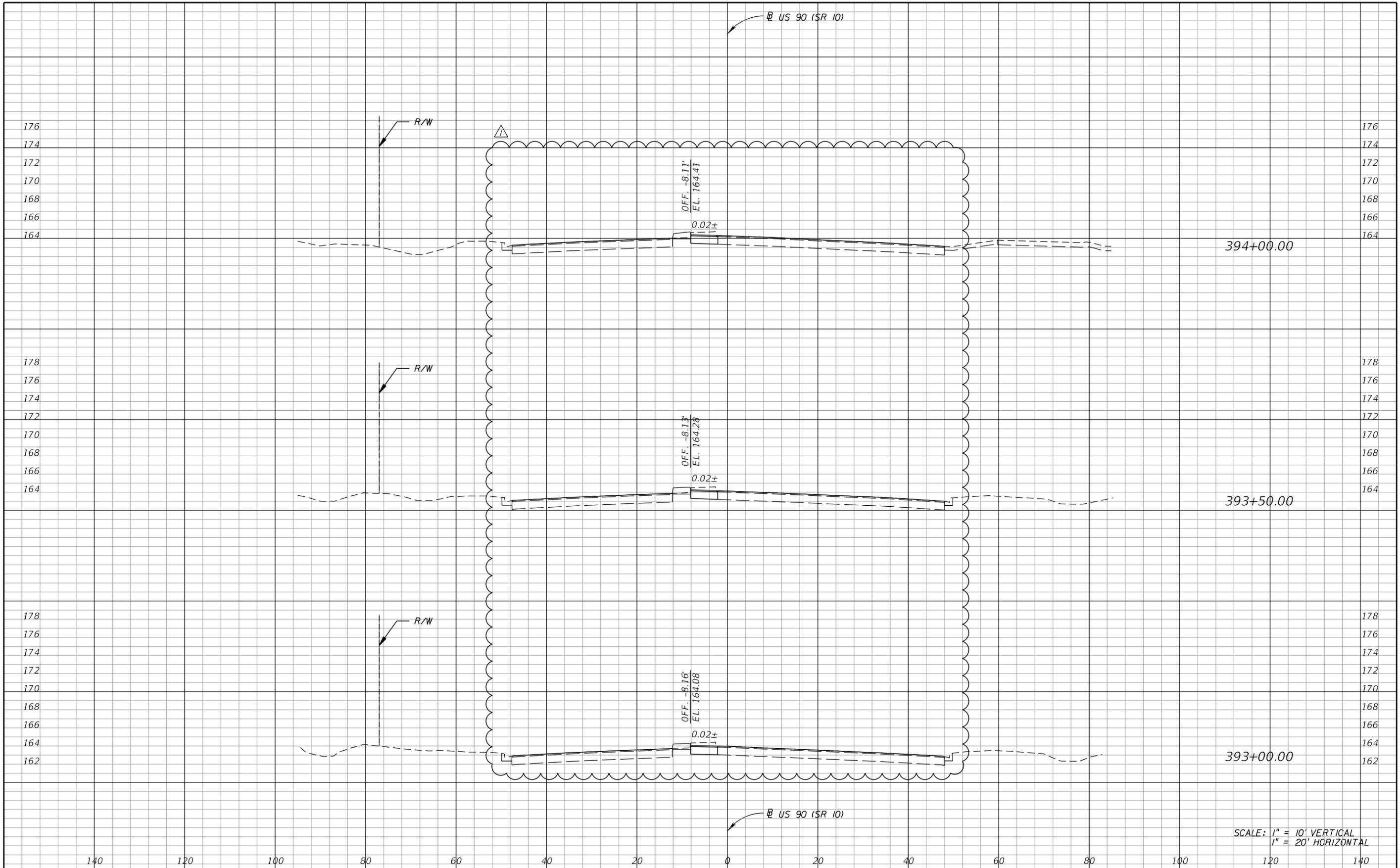
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COUNTY	COLUMBIA
FPID	434625-1-58-01

CROSS SECTIONS

SHEET NO.
11



SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL

REVISIONS	
DATE	DESCRIPTION
10/22/2014	△ REVISED CROSS SECTIONS AND NOTES

**US 90 AND BASCOM NORRIS DR.
INTERSECTION IMPROVEMENTS**

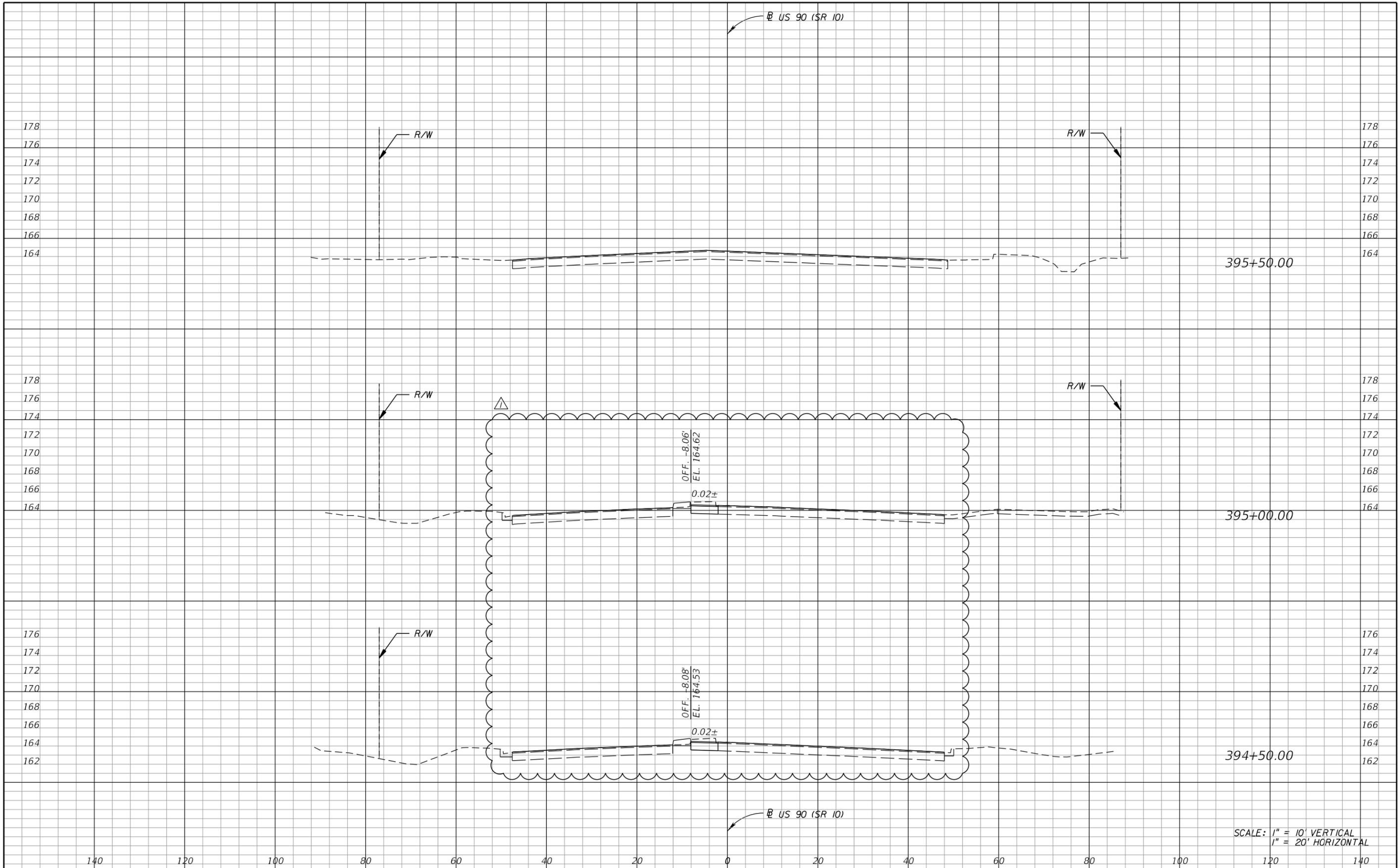
ARCADIS
1650 Prudential Drive, Suite 400
Jacksonville, Florida 32207
T: 904 721 2991 | F: 904 861 2450
Certificate of Authorization No. 7917
Walter J. Nemecek, III, PE | No. 58122



COUNTY	COLUMBIA
FPID	434625-1-58-01

CROSS SECTIONS

SHEET NO.
12



SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL

REVISIONS	
DATE	DESCRIPTION
10/22/2014	△ REVISED CROSS SECTIONS AND NOTES

**US 90 AND BASCOM NORRIS DR.
INTERSECTION IMPROVEMENTS**

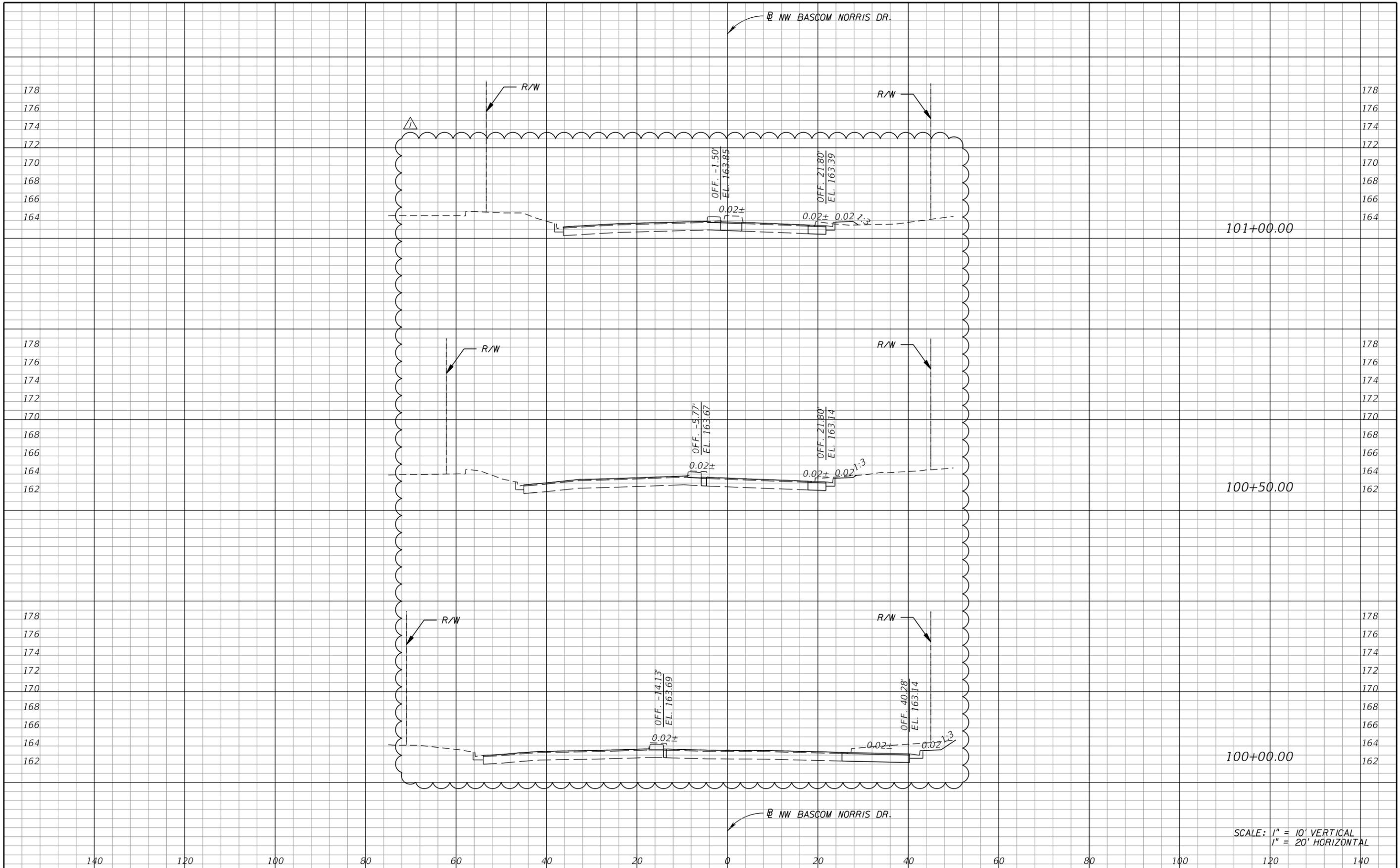
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COUNTY	COLUMBIA
FPID	434625-1-58-01

CROSS SECTIONS

SHEET NO.
13



SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL

REVISIONS	
DATE	DESCRIPTION
10/22/2014	△ REVISED CROSS SECTIONS AND NOTES

**US 90 AND BASCOM NORRIS DR.
INTERSECTION IMPROVEMENTS**

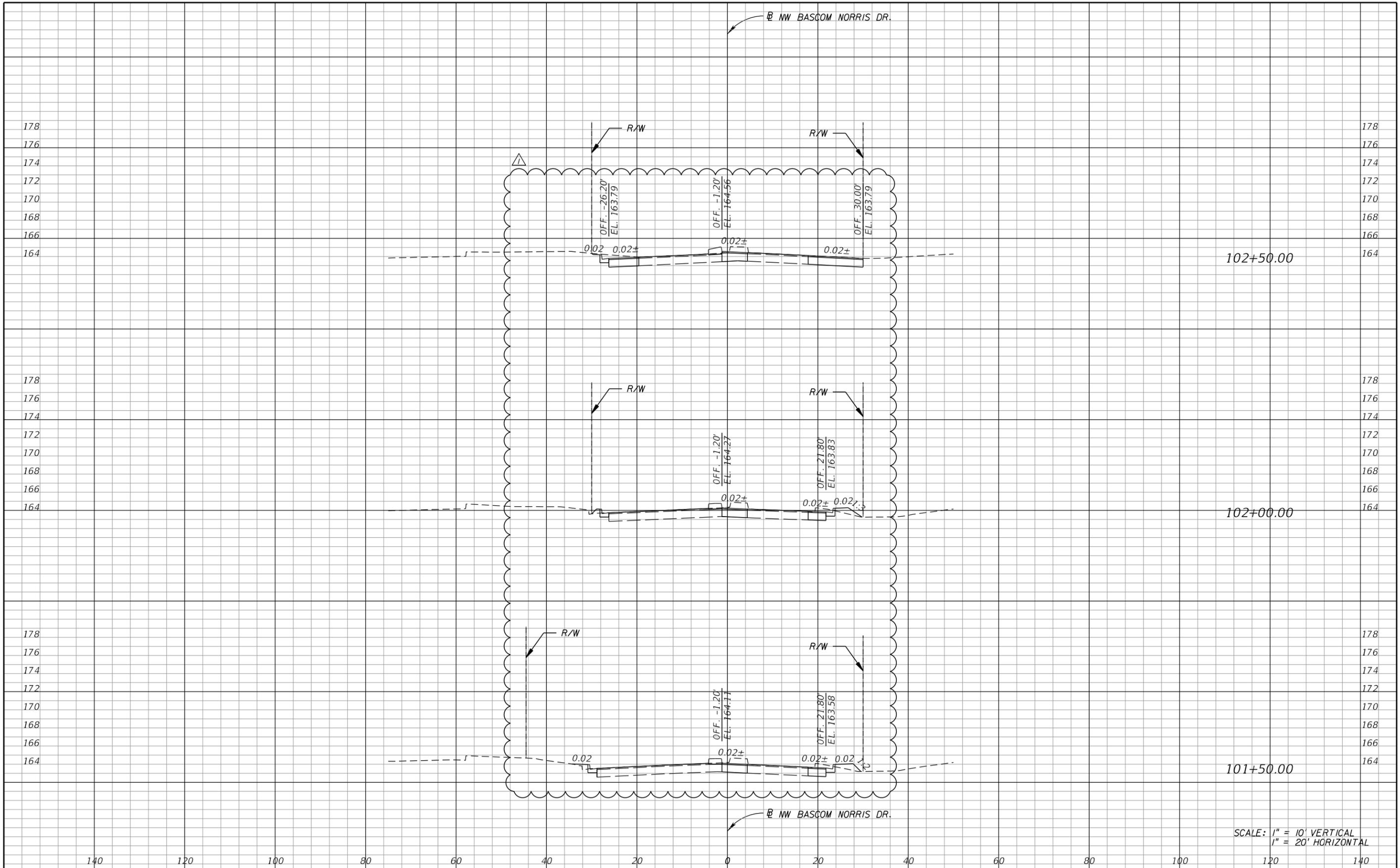
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COUNTY
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434625-1-58-01

CROSS SECTIONS

SHEET NO.
14



SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL

REVISIONS	
DATE	DESCRIPTION
10/22/2014	△ REVISED CROSS SECTIONS AND NOTES

**US 90 AND BASCOM NORRIS DR.
INTERSECTION IMPROVEMENTS**

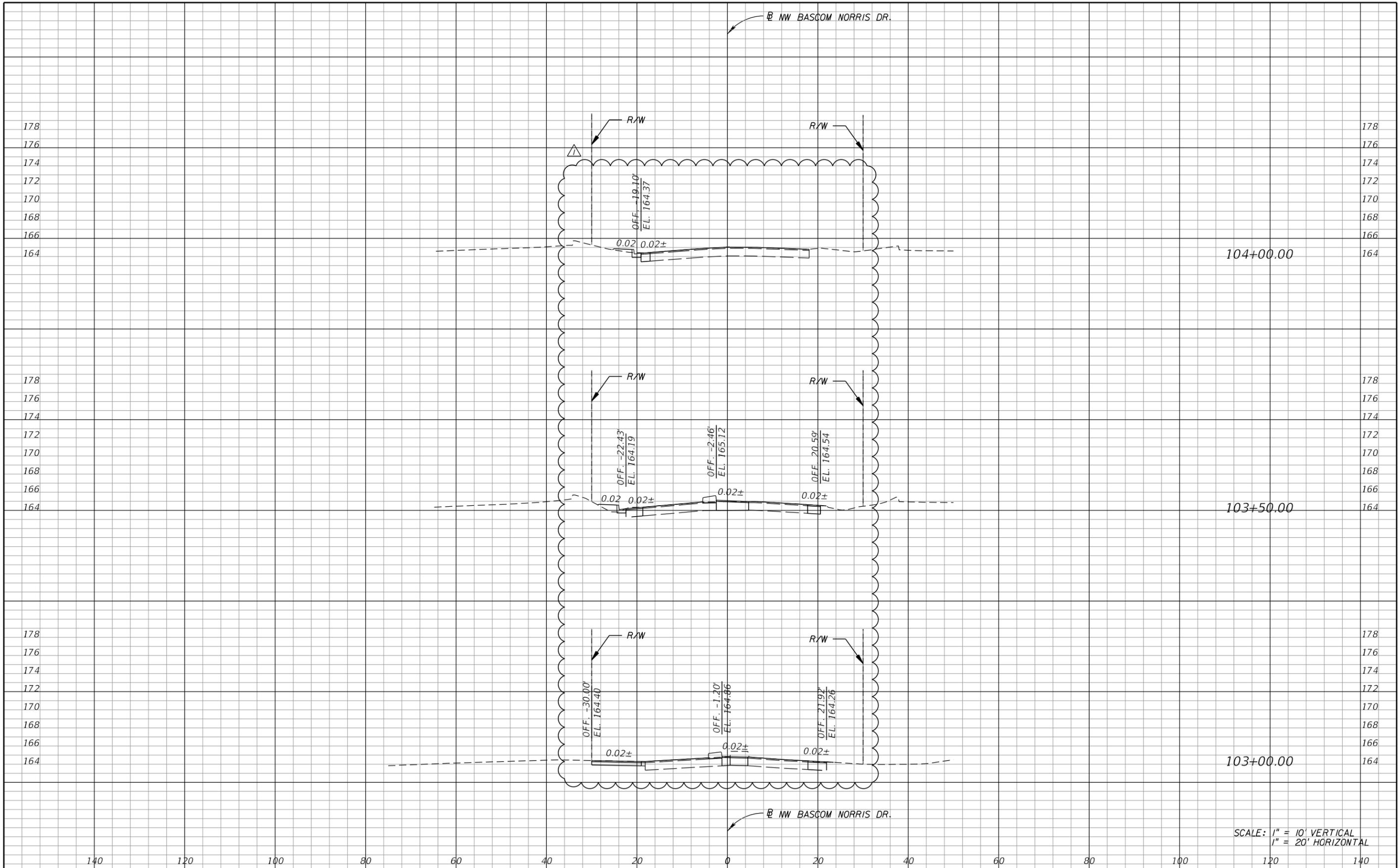
ARCADIS
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CROSS SECTIONS

SHEET NO.
15



SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL

REVISIONS	
DATE	DESCRIPTION
10/22/2014	△ REVISED CROSS SECTIONS AND NOTES

**US 90 AND BASCOM NORRIS DR.
INTERSECTION IMPROVEMENTS**

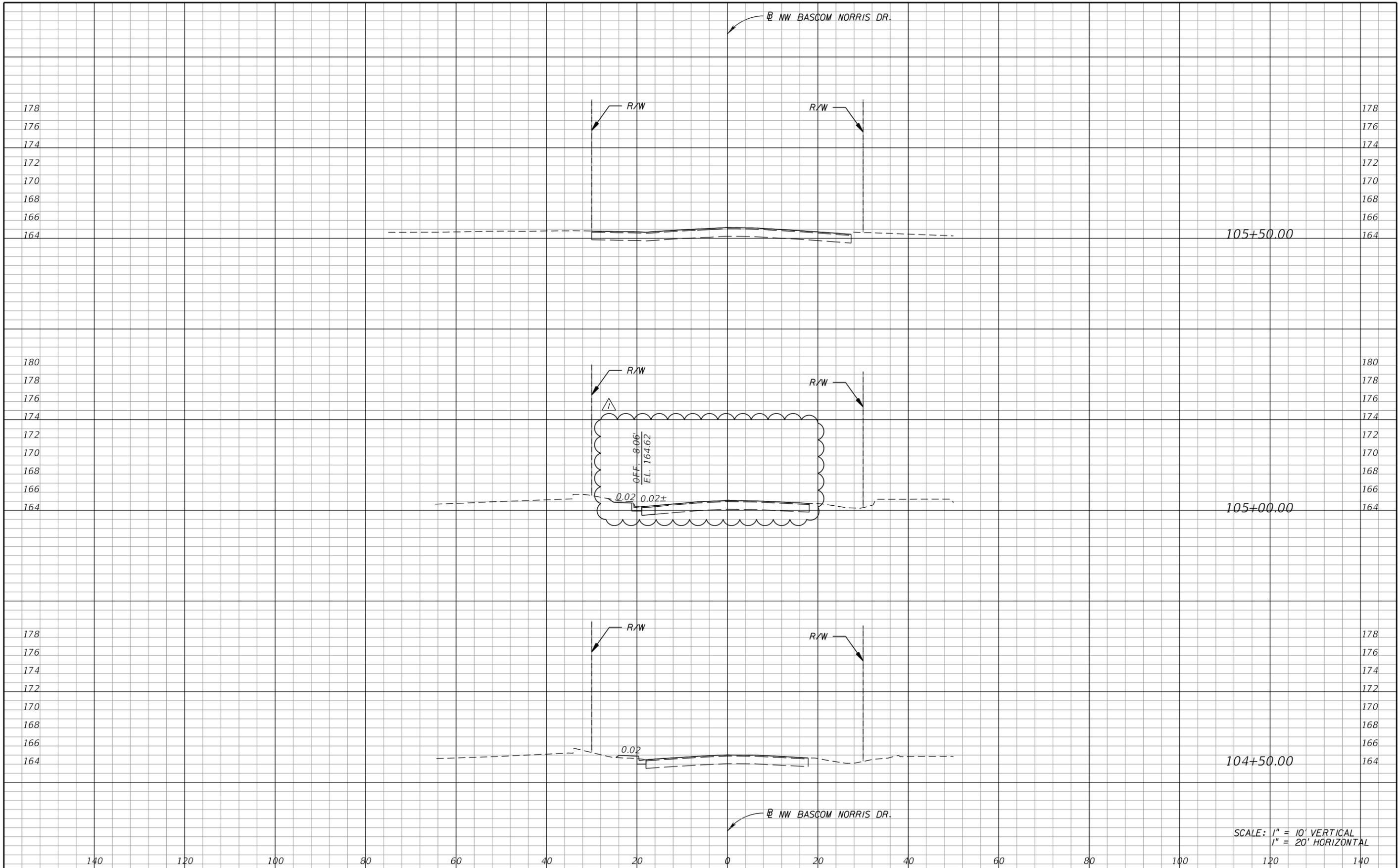
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COUNTY	COLUMBIA
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CROSS SECTIONS

SHEET NO.
16



SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL

REVISIONS	
DATE	DESCRIPTION
10/22/2014	△ REVISED CROSS SECTION AND NOTES

**US 90 AND BASCOM NORRIS DR.
INTERSECTION IMPROVEMENTS**

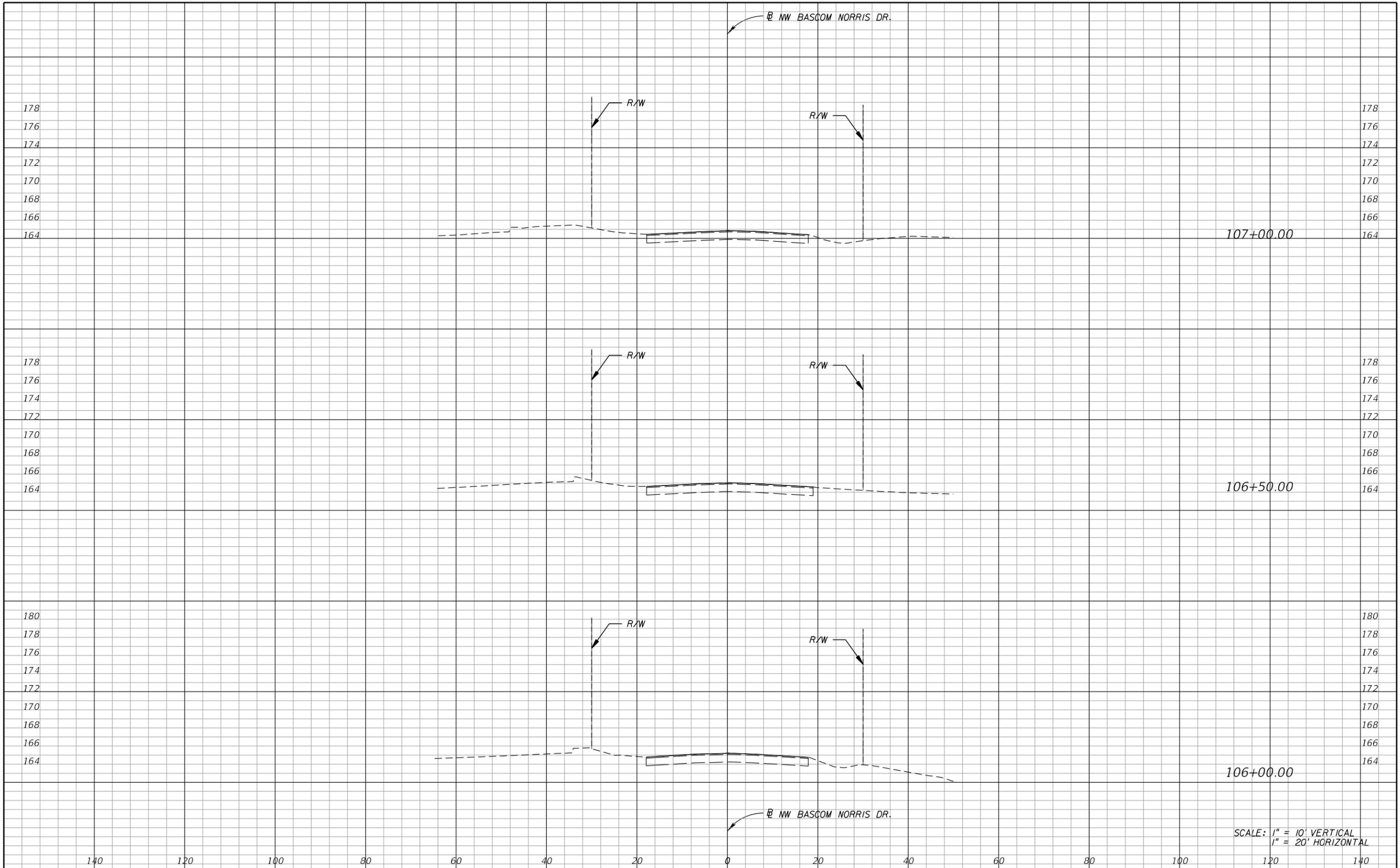
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CROSS SECTIONS

SHEET NO.
17



SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL

REVISIONS	
DATE	DESCRIPTION

**US 90 AND BASCOM NORRIS DR.
INTERSECTION IMPROVEMENTS**

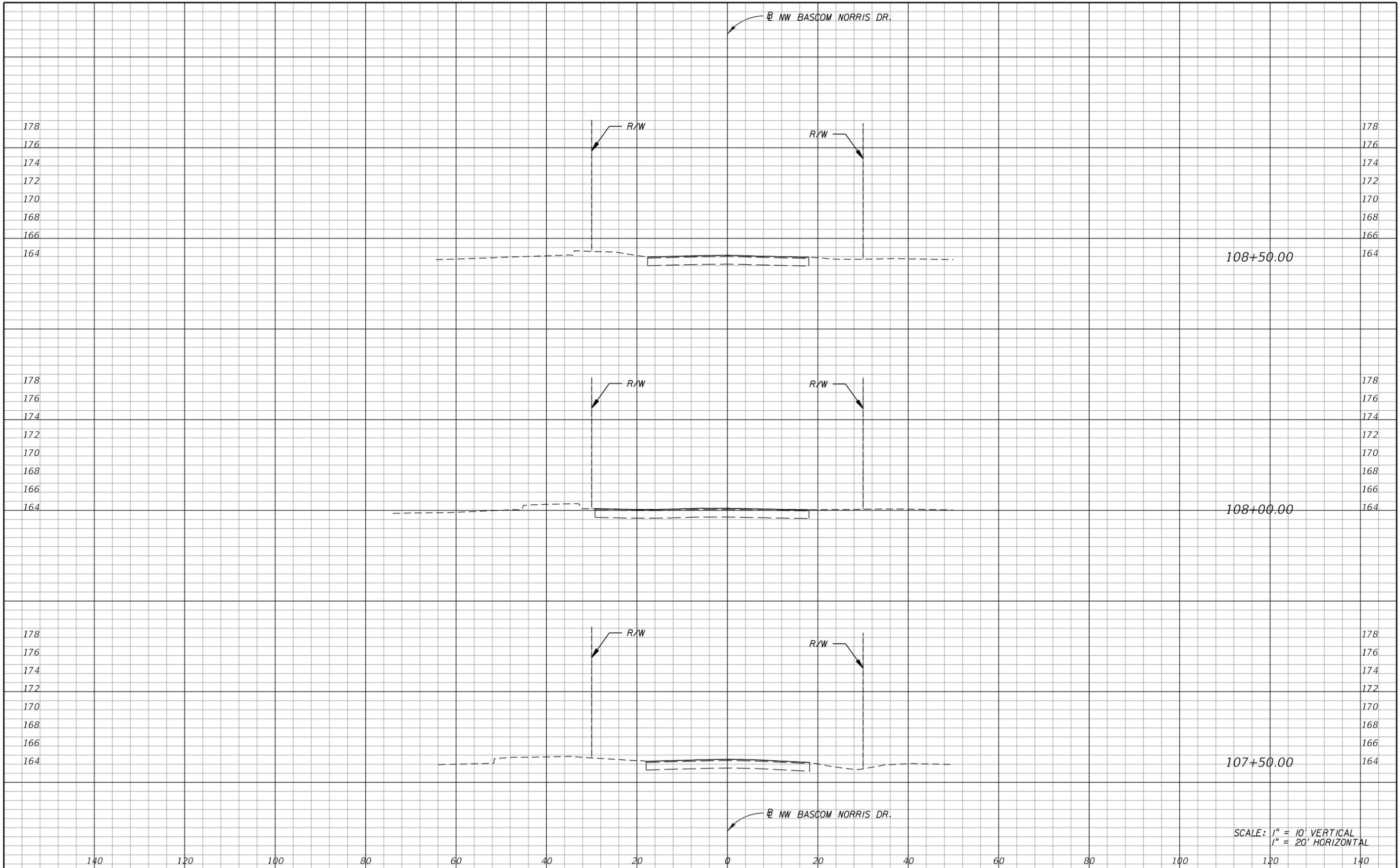
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COUNTY	COLUMBIA
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CROSS SECTIONS

SHEET NO.
18



SCALE: 1" = 10' VERTICAL
1" = 20' HORIZONTAL

REVISIONS	
DATE	DESCRIPTION

**US 90 AND BASCOM NORRIS DR.
INTERSECTION IMPROVEMENTS**

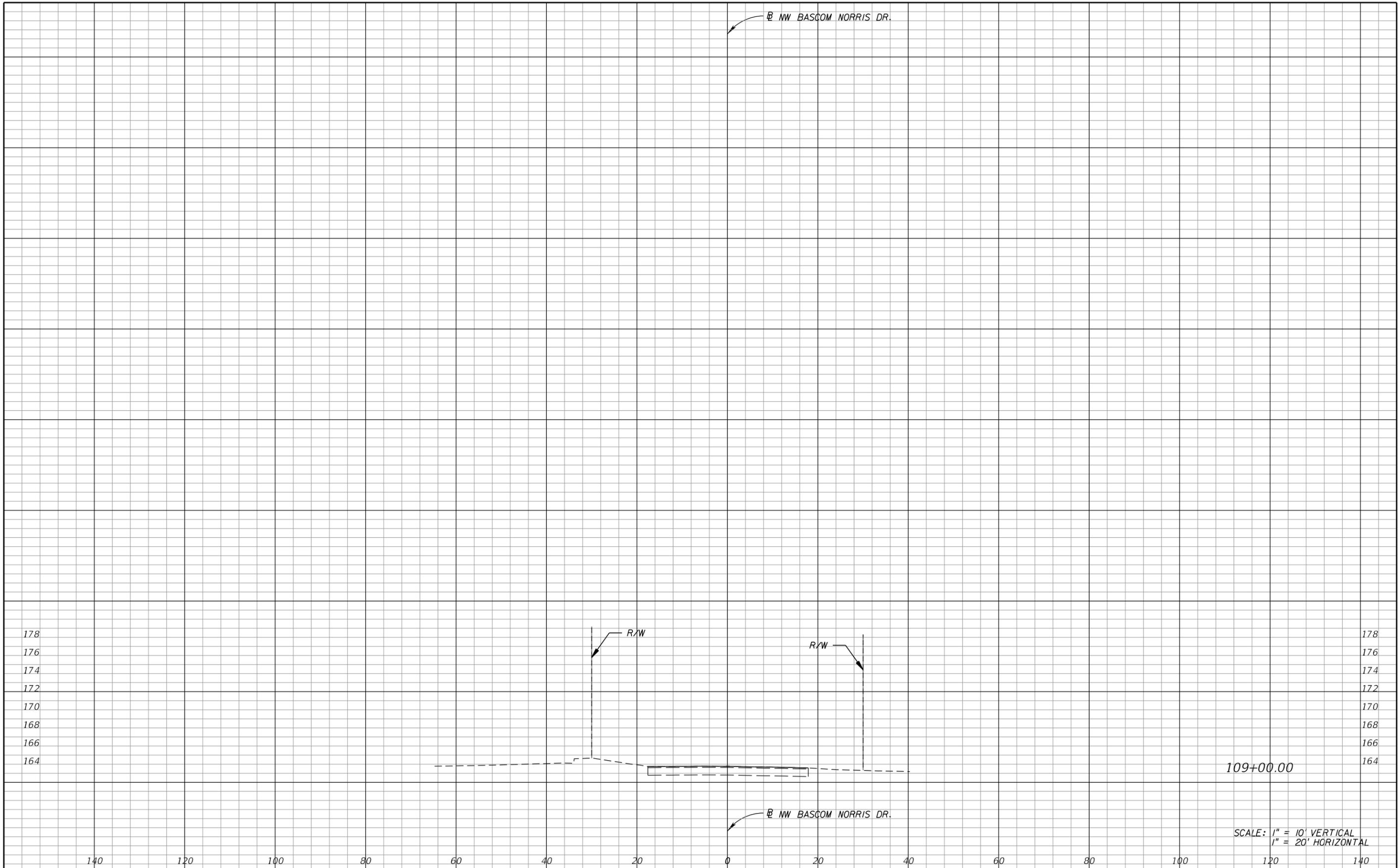
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COUNTY
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CROSS SECTIONS

SHEET NO.
19



REVISIONS	
DATE	DESCRIPTION

**US 90 AND BASCOM NORRIS DR.
INTERSECTION IMPROVEMENTS**

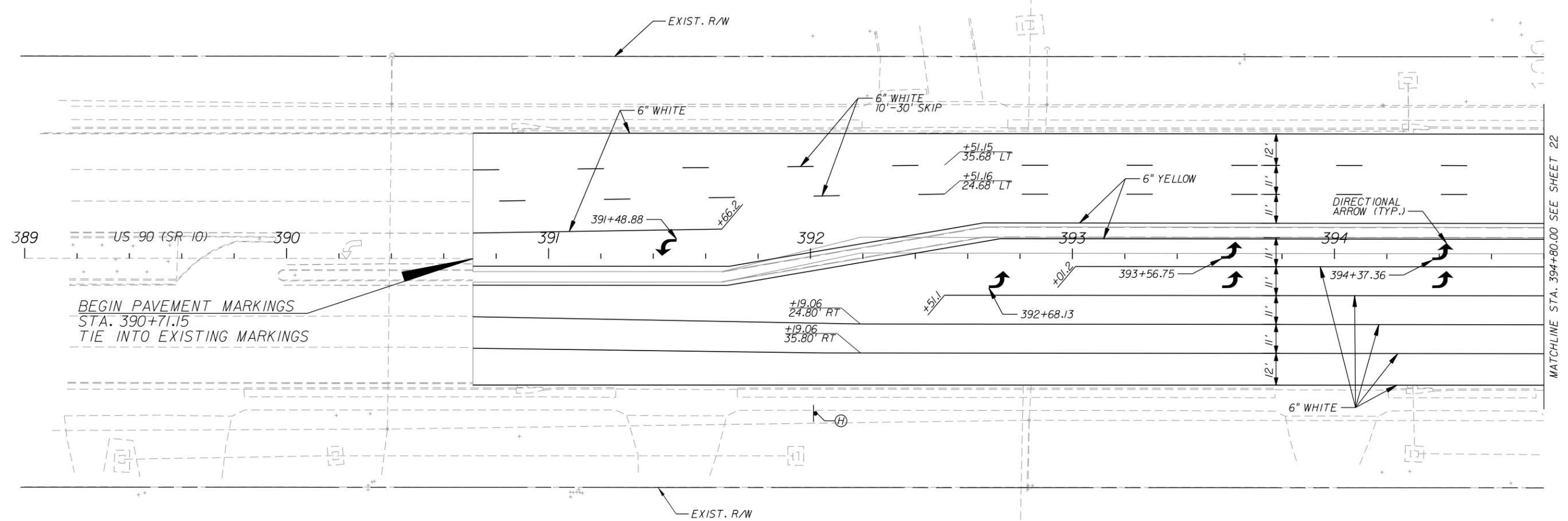
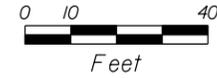
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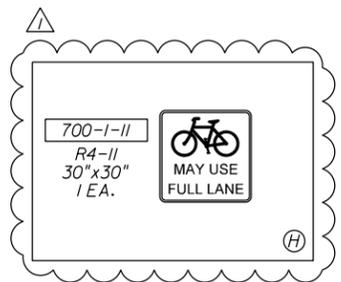
COUNTY	COLUMBIA
FPID	434625-1-58-01

CROSS SECTIONS

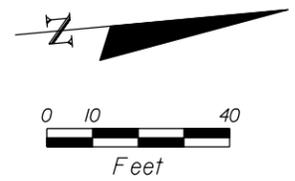
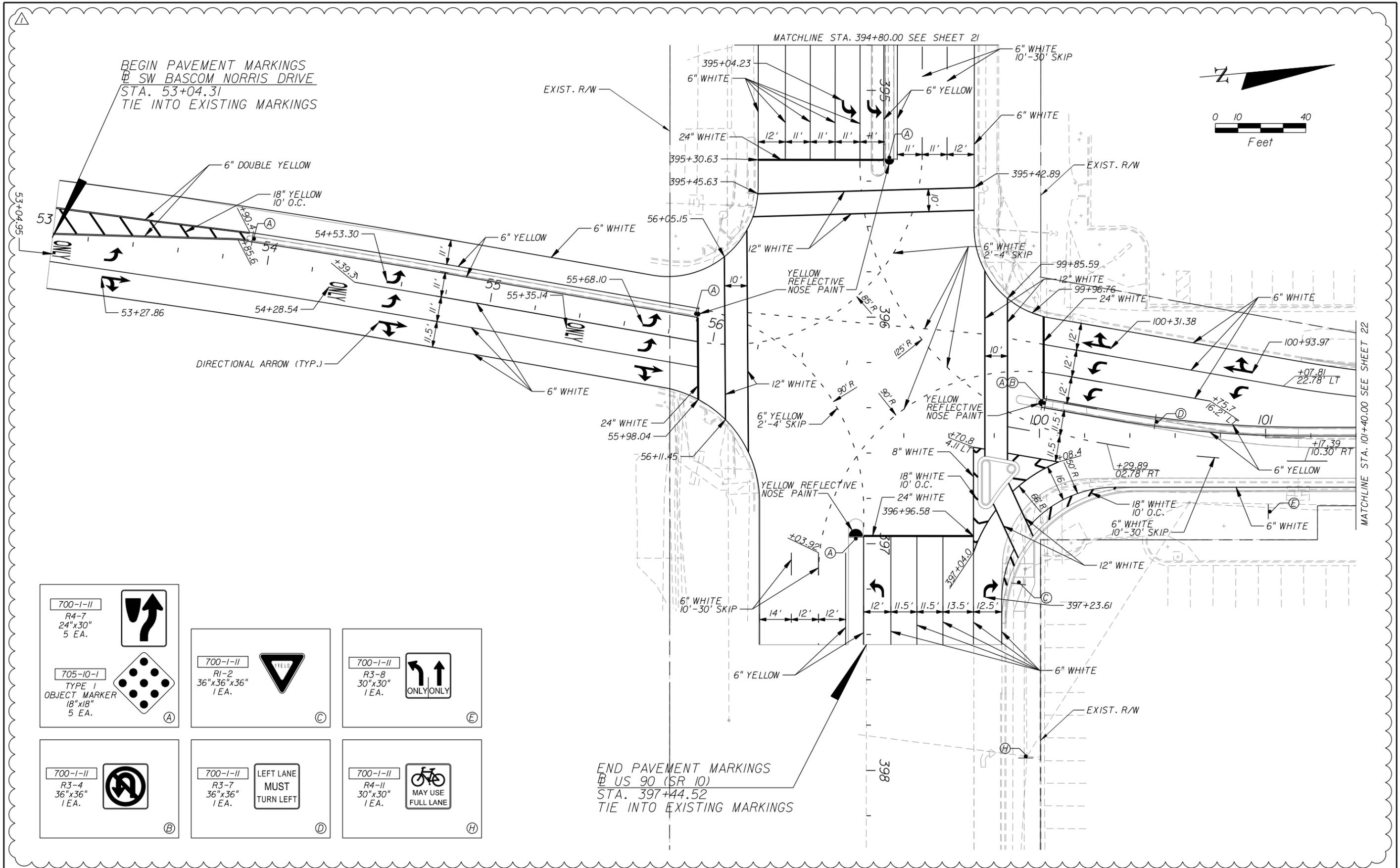
SHEET NO.
20



BEGIN PAVEMENT MARKINGS
STA. 390+71.15
TIE INTO EXISTING MARKINGS



REVISIONS		US 90 AND BASCOM NORRIS DR. INTERSECTION IMPROVEMENTS	ARCADIS 1650 Prudential Drive, Suite 400 Jacksonville, Florida 32207 T: 904 721 2991 | F: 904 861 2450 Certificate of Authorization No. 7917 Walter J. Nemecek, III, PE | No. 58122		COUNTY	SIGNING & MARKING PLAN	SHEET NO.
DATE	DESCRIPTION				COLUMBIA		FPID	21
10/22/2014	REVISD PAY ITEM NUMBER				434625-1-58-01		



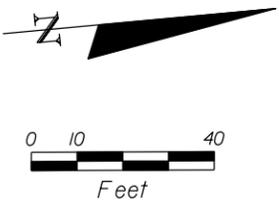
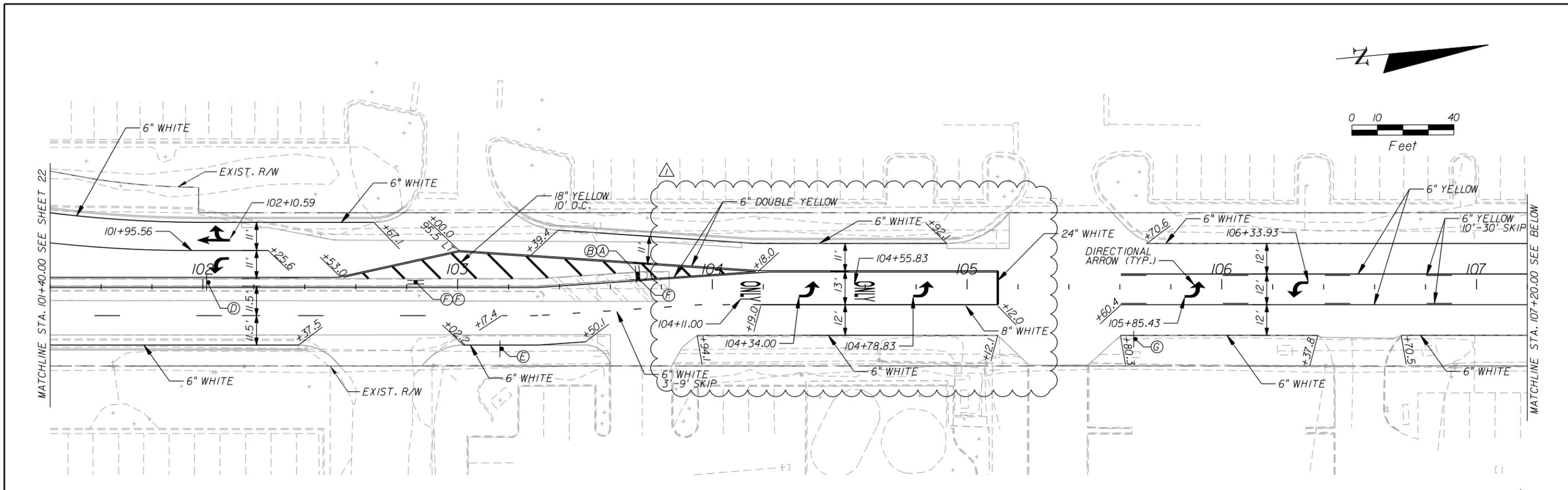
<p>700-1-11 R4-7 24"x30" 5 EA.</p>	<p>705-10-1 TYPE I OBJECT MARKER 18"x18" 5 EA.</p>	<p>700-1-11 R1-2 36"x36"x36" 1 EA.</p>	<p>700-1-11 R3-8 30"x30" 1 EA.</p>
<p>700-1-11 R3-4 36"x36" 1 EA.</p>	<p>700-1-11 R3-7 36"x36" 1 EA.</p> <p>LEFT LANE MUST TURN LEFT</p>	<p>700-1-11 R4-11 30"x30" 1 EA.</p> <p>MAY USE FULL LANE</p>	

END PAVEMENT MARKINGS
 @ US 90 (SR 10)
 STA. 397+44.52
 TIE INTO EXISTING MARKINGS

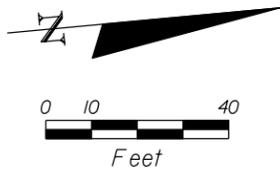
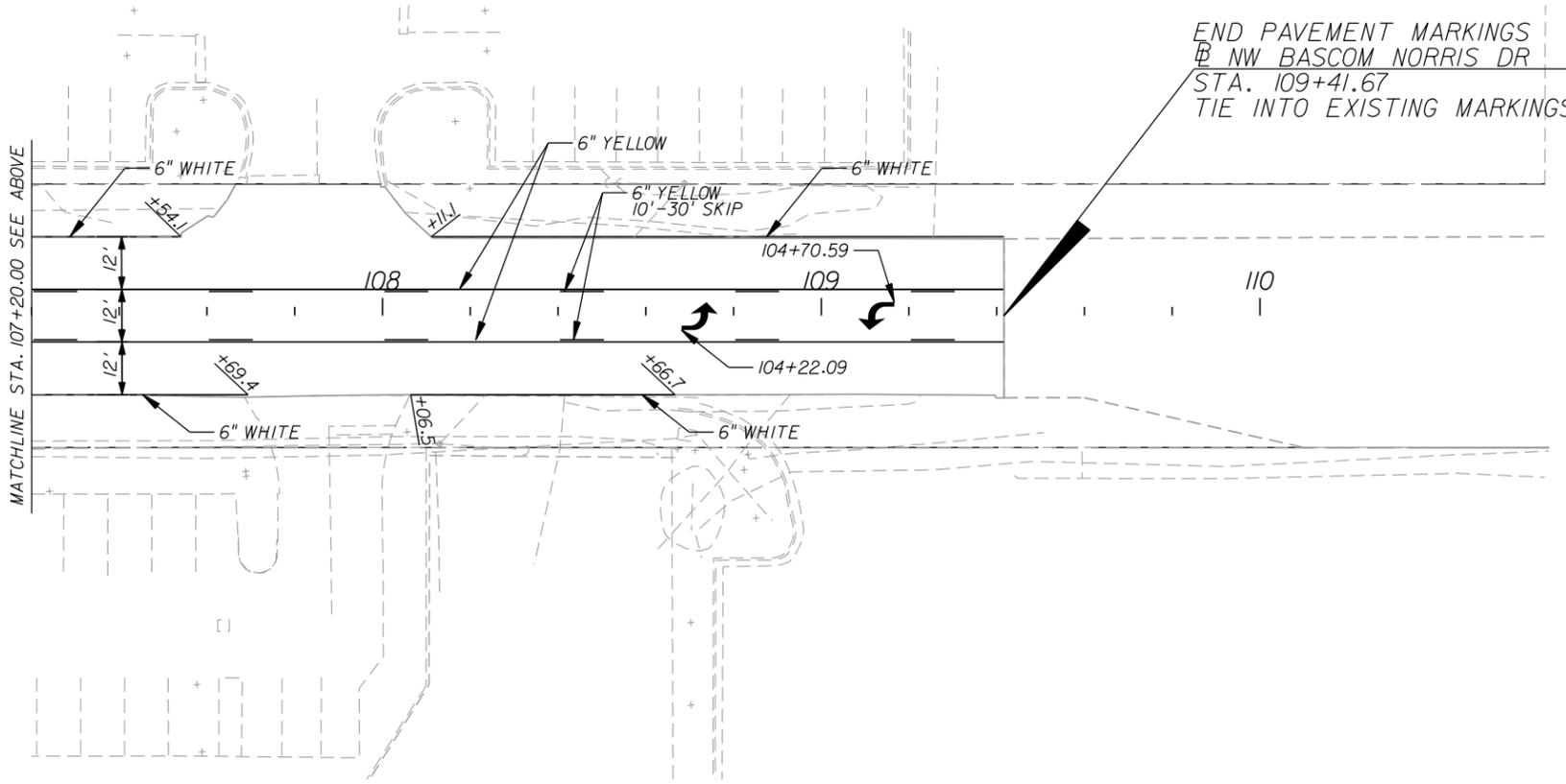
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>10/22/2014</td> <td>REVISED PAY ITEM NUMBERS, SIGN QUANTITIES, LOCATIONS, AND STRIPING</td> </tr> </tbody> </table>		DATE	DESCRIPTION	10/22/2014	REVISED PAY ITEM NUMBERS, SIGN QUANTITIES, LOCATIONS, AND STRIPING	<p>US 90 AND BASCOM NORRIS DR. INTERSECTION IMPROVEMENTS</p>	<p>ARCADIS 1650 Prudential Drive, Suite 400 Jacksonville, Florida 32207 T: 904 721 2991 F: 904 861 2450 Certificate of Authorization No. 7917 Walter J. Nemecek, III, PE No. 58122</p>	<p>COUNTY COLUMBIA FPID 434625-1-58-01</p>	<p>SHEET NO. 22</p>
DATE	DESCRIPTION								
10/22/2014	REVISED PAY ITEM NUMBERS, SIGN QUANTITIES, LOCATIONS, AND STRIPING								

SIGNING & MARKING PLAN





<p>700-1-11 R4-7 24"x30" 1 EA.</p>	<p>700-1-11 R3-8 30"x30" 1 EA.</p>
<p>705-10-1 TYPE 1 OBJECT MARKER 18"x18" 1 EA.</p>	<p>700-1-11 R3-2 24"x 24" 3 EA.</p>
<p>700-1-11 R3-4 36"x36" 1 EA.</p>	<p>700-1-11 R3-9b 24"x36" 1 EA.</p>
<p>700-1-11 R3-7 36"x36" 1 EA.</p> <p>LEFT LANE MUST TURN LEFT</p>	<p>700-1-11 R3-9b 24"x36" 1 EA.</p> <p>CENTER LANE ONLY</p>



REVISIONS	
DATE	DESCRIPTION
10/22/2014	REVISED PAY ITEM NUMBERS AND STRIPING PLAN

**US 90 AND BASCOM NORRIS DR.
INTERSECTION IMPROVEMENTS**

ARCADIS
1650 Prudential Drive, Suite 400
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Certificate of Authorization No. 7917
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COUNTY	COLUMBIA
FPID	434625-1-58-01

SIGNING & MARKING PLAN

SHEET NO.
23

GENERAL NOTES

1. ALL TRAFFIC CONTROL PLANS (TCP) SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DESIGN STANDARDS, DATED 2010, 600 SERIES, AS AMENDED AND SUPPLEMENTED.
2. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE ACCOMPANIED BY APPROPRIATE REFLECTIVE PAVEMENT MARKERS (RPM'S). REFER TO FDOT STANDARD INDEX NO. 600, SHEET 12 OF 12.
3. LANE CLOSURES ARE ONLY PERMITTED BETWEEN THE HOURS OF 8:00 PM AND 6:00 AM ON WEEKDAYS. A LANE MAY BE CLOSED ONLY DURING ACTIVE WORK.
4. THESE PLANS PRESCRIBE A SEQUENCE OF CONSTRUCTION THAT DEFINES ACTIVITIES WITHIN EACH PHASE. PROPOSED WORK IN ANY PHASE MAY BE CONSTRUCTED CONCURRENTLY.
5. SHADED ARROWS SHOWN IN THESE PLANS DENOTE DIRECTION AND NUMBER OF LANES ONLY AND DO NOT INDICATE PAVEMENT MARKINGS.
6. POSTED SPEED LIMIT FOR US 90 SHALL REMAIN AS EXISTING 45 MPH AND SPEED LIMIT FOR BASCOM NORRIS DRIVE SHALL BE 30 MPH.
7. ALL ROAD NAME SIGNS SHALL BE CLEARLY VISIBLE TO TRAFFIC DURING THE CONSTRUCTION PERIOD AND ALL SIDE STREET ACCESS SHALL BE MAINTAINED AT ALL TIMES.
8. MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION AT ALL TIMES USING EXISTING DRAINAGE STRUCTURES AND DITCHES, PROPOSED, AND TEMPORARY DRAINAGE SYSTEMS.
9. PROVIDE SIGNALIZATION DURING ALL CONSTRUCTION PHASES AT THE EXISTING SIGNALIZED INTERSECTIONS. THIS INCLUDES ALL EQUIPMENT AND LABOR AS NEEDED TO PROVIDE THE CORRECT NUMBER OF TRAFFIC SIGNAL HEADS IN THE PROPER ALIGNMENT WITH THE TRAFFIC LANES DURING EACH PARTICULAR CONSTRUCTION STAGE. COORDINATE WITH GARY PINKMAN AT THE CITY OF LAKE CITY TRAFFIC OPERATIONS AT (386) 867-3207 TO DETERMINE SIGNAL TIMING FOR EACH PHASE OF CONSTRUCTION.
10. TEMPORARY TRAFFIC DETECTION SHALL BE INSTALLED AT ALL INTERSECTIONS DURING CONSTRUCTION, AS NECESSARY. COST TO BE INCLUDED IN MOT LUMP SUM PAY ITEM.
11. TRAFFIC CONTROL OFFICERS SHALL BE UTILIZED AT INTERSECTIONS WHEN AND WHERE SIGNAL CHANGE-OVERS TAKE PLACE. COST TO BE INCLUDED IN MOT LUMP SUM PAY ITEM.
12. BUSINESS ENTRANCES AND DRIVEWAYS SHALL BE ACCOMMODATED AS DETAILED IN FDOT STANDARD INDEX NO. 600, SHEET 10 OF 12.
13. EXISTING PAVEMENT MARKINGS AND SIGNING THAT CONFLICT WITH THE TRAFFIC CONTROL PHASING SHALL BE REMOVED OR COVERED AS NOT TO CONFLICT WITH TRAFFIC FLOW THROUGH CONSTRUCTION.
14. ANY REQUIRED TEMPORARY MARKINGS MUST BE IN PLACE BEFORE OPENING LANES TO TRAFFIC.
15. MAINTAIN EXISTING PEDESTRIAN TRAFFIC ACCESS BY TEMPORARY PEDESTRIAN SIGNALS OR PROPOSED FINAL PEDESTRIAN SIGNALS WHEN POSSIBLE.
16. ENSURE ALL CONSTRUCTION OPERATIONS ARE HALTED AND CLEAR ROADWAY ACCESS IS AVAILABLE TO ALLOW TWO-WAY TRAFFIC DURING CATASTROPHIC EVENTS. THE ROADWAY SHALL REMAIN OPEN FOR THE DURATION OF THE EVENT AS DIRECTED BY COLUMBIA COUNTY EMERGENCY SERVICES OR THEIR AUTHORIZED REPRESENTATIVE.

TRAFFIC CONTROL AND CONSTRUCTION SEQUENCE, PHASE 1:

THIS CONSTRUCTION PHASE CONSISTS OF ROADWAY WIDENING ALONG BASCOM NORRIS DRIVE. THE MAIN CONSTRUCTION STEPS ARE AS FOLLOWS:

1. MAINTAIN ALL EXISTING TRAFFIC LANES WHERE NIGHTLY CONSTRUCTION IS NOT PRESENT EXCEPT WHERE APPROACHING LANES OF TRAFFIC MUST BE CLOSED TO DIVERT TRAFFIC AROUND THE WORK ZONE. SEE FDOT INDEXES 616 AND 618.
2. INSTALL ADVANCE WARNING SIGNS AND BARRICADES.
3. INSTALL EROSION AND SEDIMENT CONTROL MEASURES FOR PHASE 1.
4. CONSTRUCT PROPOSED SIGNALIZATION FOR BASCOM NORRIS DRIVE ACCORDING TO THE SIGNALIZATION PLANS. ALIGN SIGNAL HEADS TO THE DAYTIME TRAFFIC PATTERN AND COVER ADDITIONAL LEFT TURN SIGNAL UNTIL LANE IS RESTRIPEDED IN PHASE 3.
4. CONSTRUCT PROPOSED SIGNALIZATION FOR US 90 ACCORDING TO THE SIGNALIZATION PLANS. COVER SIGNAL HEADS UNTIL ACTIVATION FOLLOWING PHASE 2 CONSTRUCTION.
5. CONSTRUCT THE PROPOSED DRAINAGE AND WIDENING ALONG BASCOM NORRIS DRIVE.
6. REMOVE EXISTING MAST ARM AND ACTIVATE BASCOM NORRIS DRIVE SIGNAL.
7. PROVIDE TEMPORARY MARKINGS, SIGNING, AND OTHER TRAFFIC CONTROL DEVICES FOR PHASE 2 CONSTRUCTION.

TRAFFIC CONTROL AND CONSTRUCTION SEQUENCE, PHASE 2:

THIS CONSTRUCTION PHASE CONSISTS OF TRAFFIC SEPARATOR REMOVAL AND CONSTRUCTION, ROADWAY WIDENING IN THE MEDIAN OF US 90 AND BASCOM NORRIS DRIVE, AND THE CONSTRUCTION OF THE PEDESTRIAN ISLAND. THE MAIN CONSTRUCTION STEPS ARE AS FOLLOWS:

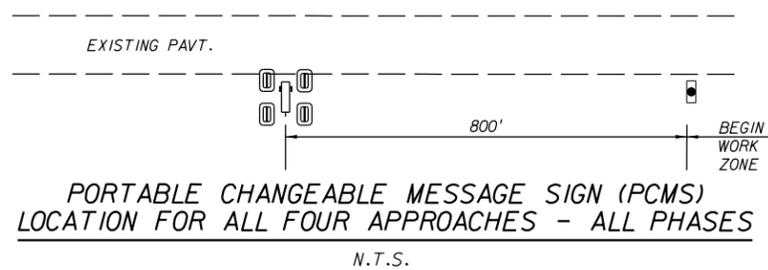
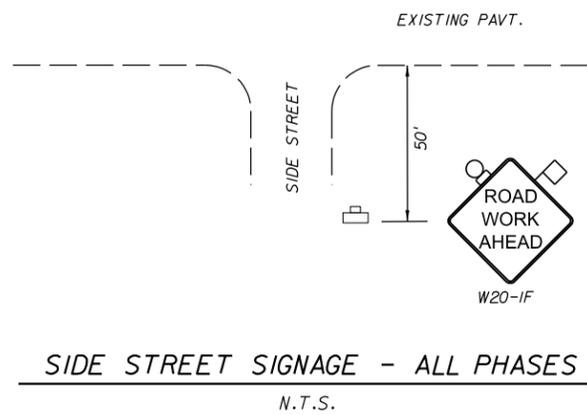
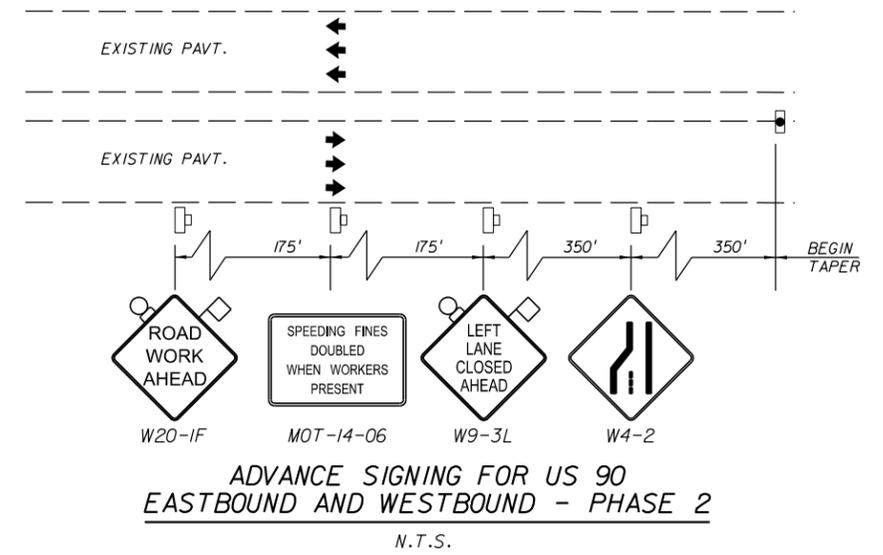
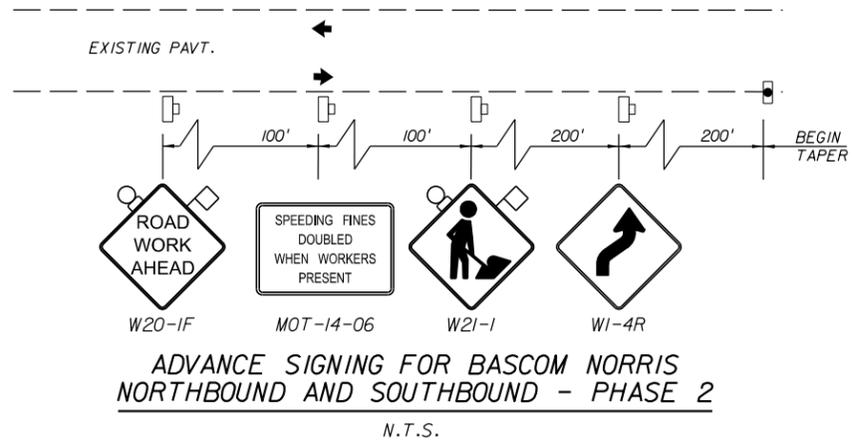
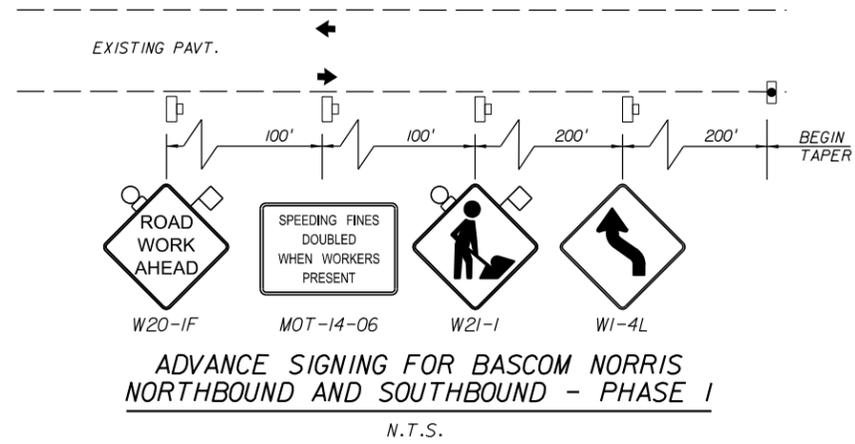
1. MAINTAIN ALL EXISTING TRAFFIC LANES WHERE NIGHTLY CONSTRUCTION IS NOT PRESENT EXCEPT WHERE APPROACHING LANES OF TRAFFIC MUST BE CLOSED TO DIVERT TRAFFIC AROUND THE WORK ZONE. SEE FDOT INDEXES 616 AND 618.
2. INSTALL ADDITIONAL, AND/OR REVISE PLACEMENT OF, EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY FOR PHASE 2 CONSTRUCTION.
3. CONSTRUCT TRAFFIC SEPARATOR AND TURN LANE FOR US 90 EASTBOUND.
4. CONSTRUCT TRAFFIC SEPARATOR AND TURN LANE FOR BASCOM NORRIS DRIVE NORTHBOUND.
5. CONSTRUCT TRAFFIC SEPARATOR ON BASCOM NORRIS DRIVE SOUTH OF US 90.
6. RECONSTRUCT TRAFFIC SEPARATOR NOSE FOR US 90 WESTBOUND TURNLANE.
7. CONSTRUCT PEDESTRIAN ISLAND IN THE NORTHEAST QUADRANT OF THE INTERSECTION.
8. PROVIDE TEMPORARY MARKINGS, SIGNING, AND OTHER TRAFFIC CONTROL DEVICES FOR PHASE 3 CONSTRUCTION.
9. REMOVE EXISTING MAST ARM AND ACTIVATE PROPOSED SIGNAL FOR US 90.

TRAFFIC CONTROL AND CONSTRUCTION SEQUENCE, PHASE 3 (NO PLANS):

THIS CONSTRUCTION PHASE CONSISTS OF MINOR CONSTRUCTION ITEMS TO NEEDED COMPLETE THE PROPOSED DESIGN INCLUDING MILLING AND RESURFACING ALONG US 90, BASCOM NORRIS DRIVE, AND INTERSECTING DRIVEWAYS. THE MAIN CONSTRUCTION STEPS ARE AS FOLLOWS:

1. MAINTAIN ALL EXISTING TRAFFIC LANES WHERE NIGHTLY CONSTRUCTION IS NOT PRESENT EXCEPT WHERE APPROACHING LANES OF TRAFFIC MUST BE CLOSED TO DIVERT TRAFFIC AROUND THE WORK ZONE. SEE FDOT INDEXES 616 AND 618.
2. MILL AND RESURFACE EXISTING PAVEMENT TO THE LIMITS SHOWN IN THE ROADWAY PLANS.
3. CONFIGURE SIGNAL HEADS TO FINAL LAYOUT AS INDICATED IN THE SIGNALIZATION PLANS.
4. PLACE FINAL ROADWAY SIGNS AND PAVEMENT MARKINGS, THEN REMOVE ALL EROSION AND SEDIMENT CONTROL DEVICES BEFORE REMOVAL OF ALL TEMPORARY CONSTRUCTION SIGNS.
5. DIVERT TRAFFIC TO FINAL LANE CONFIGURATION AND OPEN ALL LANES TO TRAFFIC.

REVISIONS		US 90 AND BASCOM NORRIS DR. INTERSECTION IMPROVEMENTS	ARCADIS 1650 Prudential Drive, Suite 400 Jacksonville, Florida 32207 T: 904 721 2991 | F: 904 861 2450 Certificate of Authorization No. 7917 Walter J. Nemecek, III, PE | No. 58122		COUNTY		TRAFFIC CONTROL PLAN	SHEET NO. 24
DATE	DESCRIPTION				COLUMBIA	FPID		
10/22/2014	NOTES ADDED, REVISED, AND REMOVED				COLUMBIA	434625-1-58-01		



PCMS MESSAGE TABLE 1	
DISPLAY 1	DISPLAY 2
NIGHTLY LANE CLOSURES	STARTING ON XX-XX-XX
DISPLAYED 2 WEEKS PRIOR TO CONSTRUCTION. CONTRACTOR MAY ALTER DISPLAYS WITH THE APPROVAL OF THE ENGINEER.	

PCMS MESSAGE TABLE 2	
DISPLAY 1	DISPLAY 2
CAUTION LANE CLOSURES	ROAD WORK AHEAD
DISPLAYED DURING CONSTRUCTION. CONTRACTOR MAY ALTER DISPLAYS WITH THE APPROVAL OF THE ENGINEER.	

XX-XX-XX REPRESENTS A DATE SUCH AS 06-20-14 (JUNE 20, 2014)

LEGEND

- WORK ZONE
- SILT FENCE
- FLOATING TURBIDITY BARRIER
- ROCK BAGS
- STAKED TURBIDITY BARRIER
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- DRUM
- TYPE I OR TYPE II BARRICADE OR VERTICAL PANEL OR DRUM (WITH STEADY BURNING LIGHT AT NIGHT ONLY)
- WORK ZONE SIGN
- CRASH CUSHION
- STOP BAR
- TYPE III BARRICADE (WITH FLASHING LIGHT)
- TYPE III BARRICADE
- ADVANCE WARNING ARROW PANEL
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

REVISIONS	
DATE	DESCRIPTION

US 90 AND BASCOM NORRIS DR. INTERSECTION IMPROVEMENTS

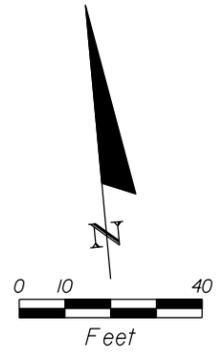
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COUNTY
COLUMBIA
FPID
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TRAFFIC CONTROL PLAN

SHEET NO.
25



WAL-MART

EXIST. R/W

BEGIN CONSTRUCTION
STA. 390+71.15

89

390

391

392

393

394

US 90 (SR 10)

EXIST. R/W

C&G HOMES

MATCHLINE STA. 394+80.00 SEE SHEET 26

REVISIONS	
DATE	DESCRIPTION

**US 90 AND BASCOM NORRIS DR.
INTERSECTION IMPROVEMENTS**

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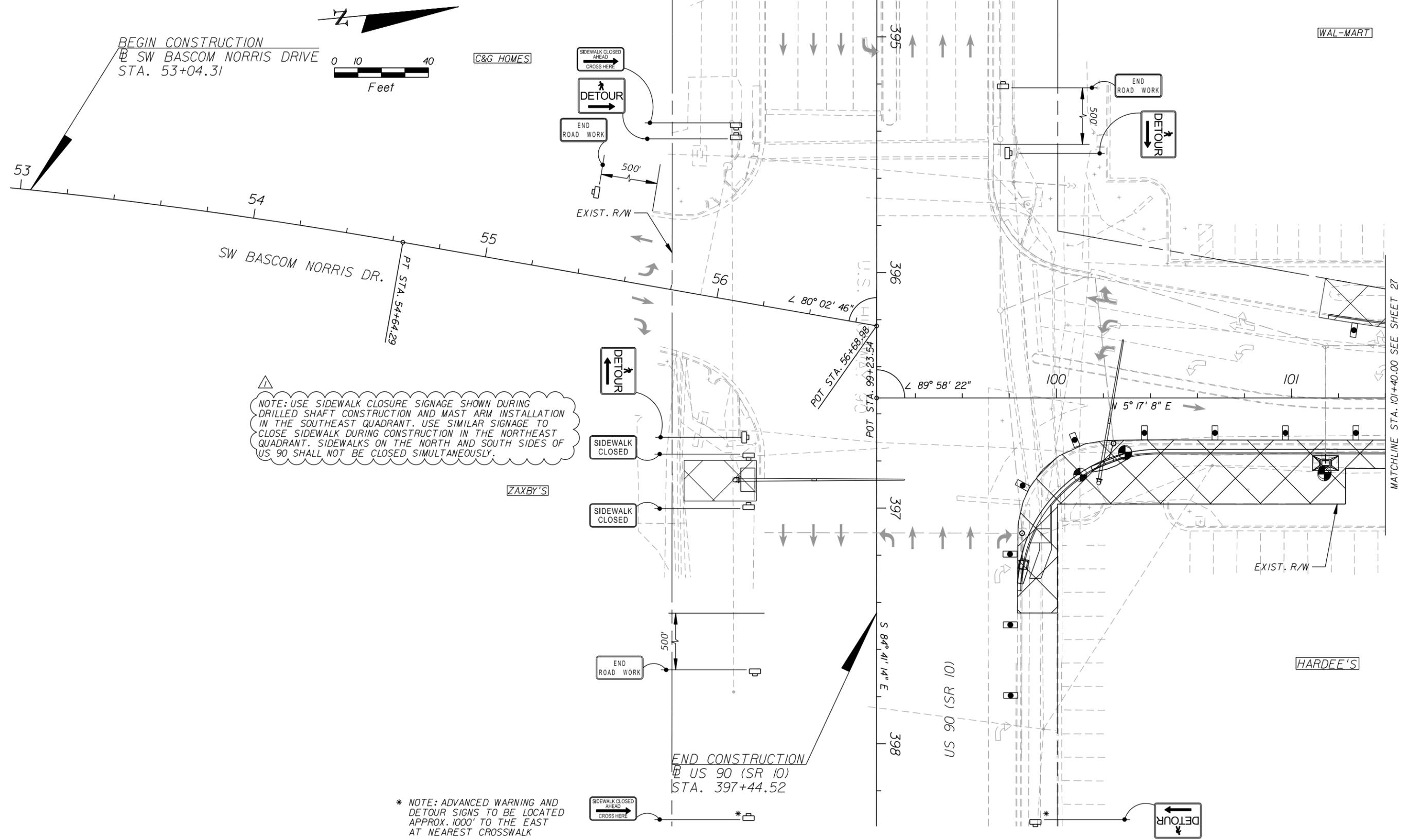


COUNTY	COLUMBIA
FPID	434625-1-58-01

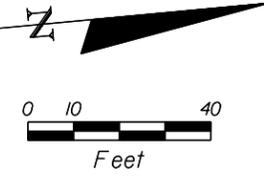
**TRAFFIC CONTROL PLAN
PHASE 1**

SHEET NO.
26

MATCHLINE STA. 394+80.00 SEE SHEET 25



BEGIN CONSTRUCTION
 @ SW BASCOM NORRIS DRIVE
 STA. 53+04.31



C&G HOMES

WAL-MART

NOTE: USE SIDEWALK CLOSURE SIGNAGE SHOWN DURING DRILLED SHAFT CONSTRUCTION AND MAST ARM INSTALLATION IN THE SOUTHEAST QUADRANT. USE SIMILAR SIGNAGE TO CLOSE SIDEWALK DURING CONSTRUCTION IN THE NORTHEAST QUADRANT. SIDEWALKS ON THE NORTH AND SOUTH SIDES OF US 90 SHALL NOT BE CLOSED SIMULTANEOUSLY.

ZAXBY'S

HARDEE'S

END CONSTRUCTION
 @ US 90 (SR 10)
 STA. 397+44.52

* NOTE: ADVANCED WARNING AND DETOUR SIGNS TO BE LOCATED APPROX. 1000' TO THE EAST AT NEAREST CROSSWALK

REVISIONS	
DATE	DESCRIPTION
10/22/2014	△ ADDED SIDEWALK CLOSURE NOTE

**US 90 AND BASCOM NORRIS DR.
 INTERSECTION IMPROVEMENTS**

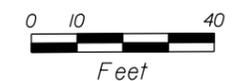
ARCADIS
 1650 Prudential Drive, Suite 400
 Jacksonville, Florida 32207
 T: 904 721 2991 | F: 904 861 2450
 Certificate of Authorization No. 7917
 Walter J. Nemecek, III, PE | No. 58122



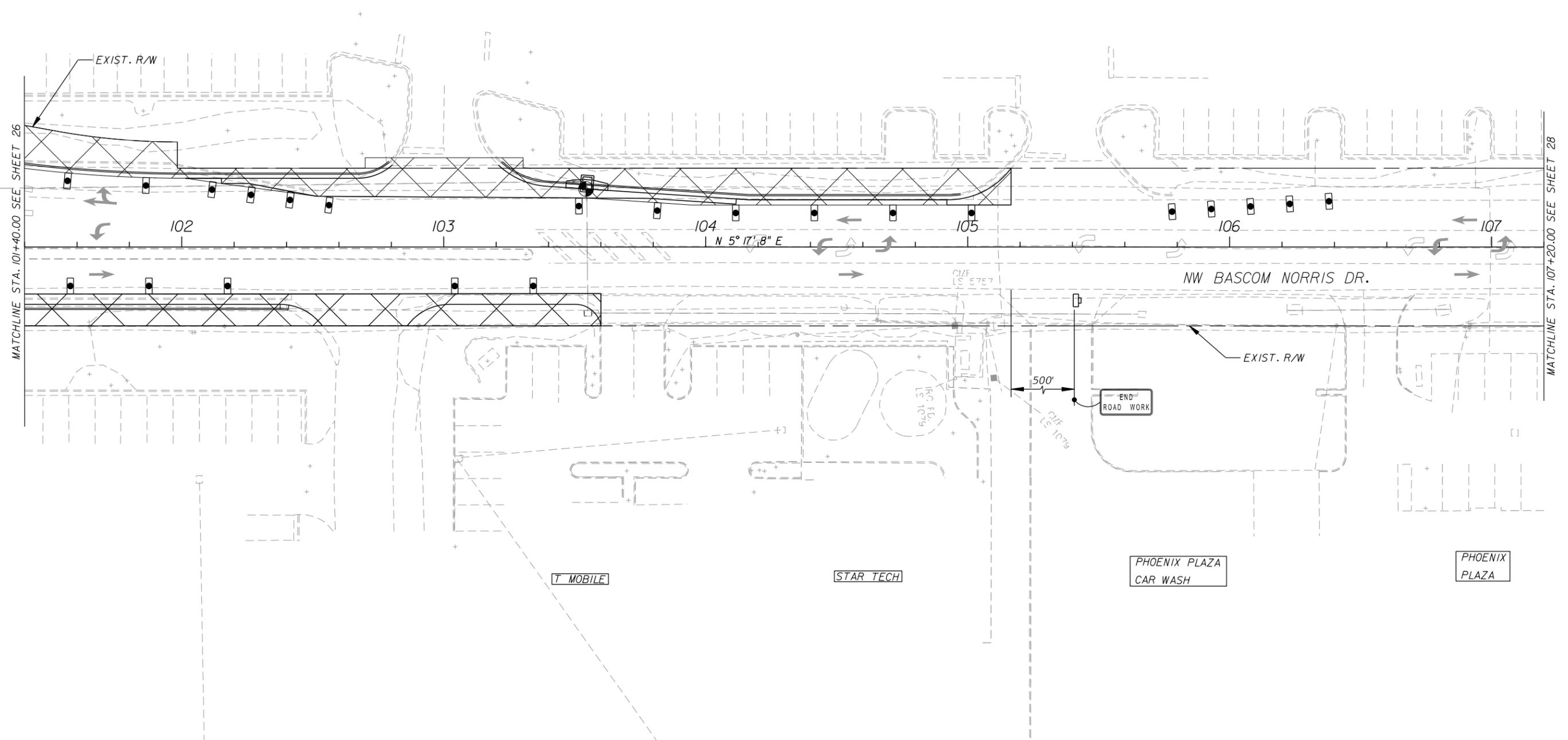
COUNTY	COLUMBIA
FPID	434625-1-58-01

**TRAFFIC CONTROL PLAN
 PHASE 1**

SHEET NO.
 27



WAL-MART



MATCHLINE STA. 101+40.00 SEE SHEET 26

MATCHLINE STA. 107+20.00 SEE SHEET 28

REVISIONS	
DATE	DESCRIPTION

**US 90 AND BASCOM NORRIS DR.
INTERSECTION IMPROVEMENTS**

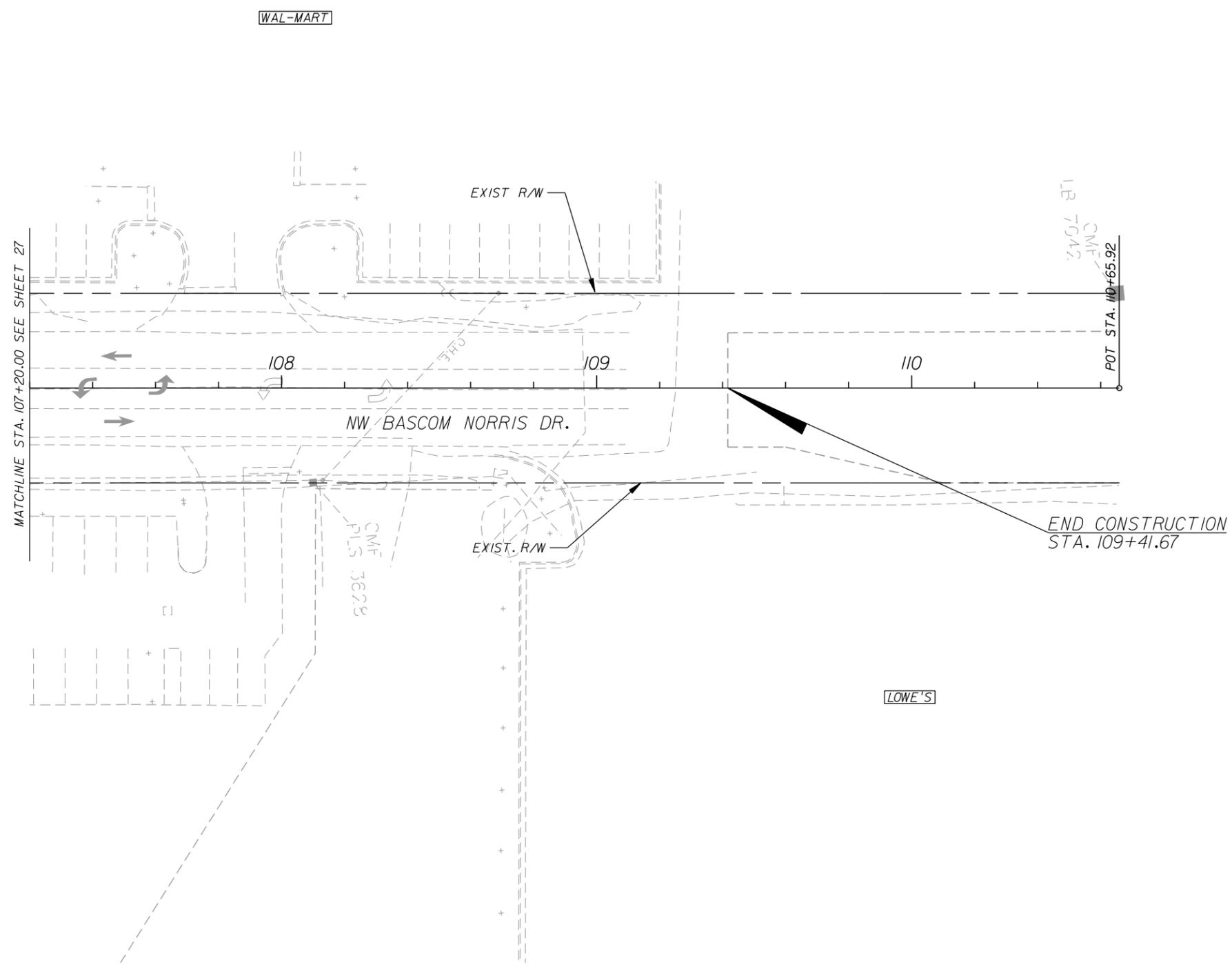
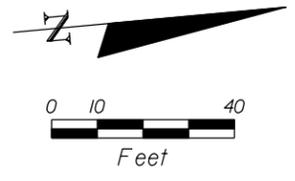
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COUNTY	COLUMBIA
FPID	434625-1-58-01

**TRAFFIC CONTROL PLAN
PHASE 1**

SHEET NO.
28



REVISIONS	
DATE	DESCRIPTION

**US 90 AND BASCOM NORRIS DR.
INTERSECTION IMPROVEMENTS**

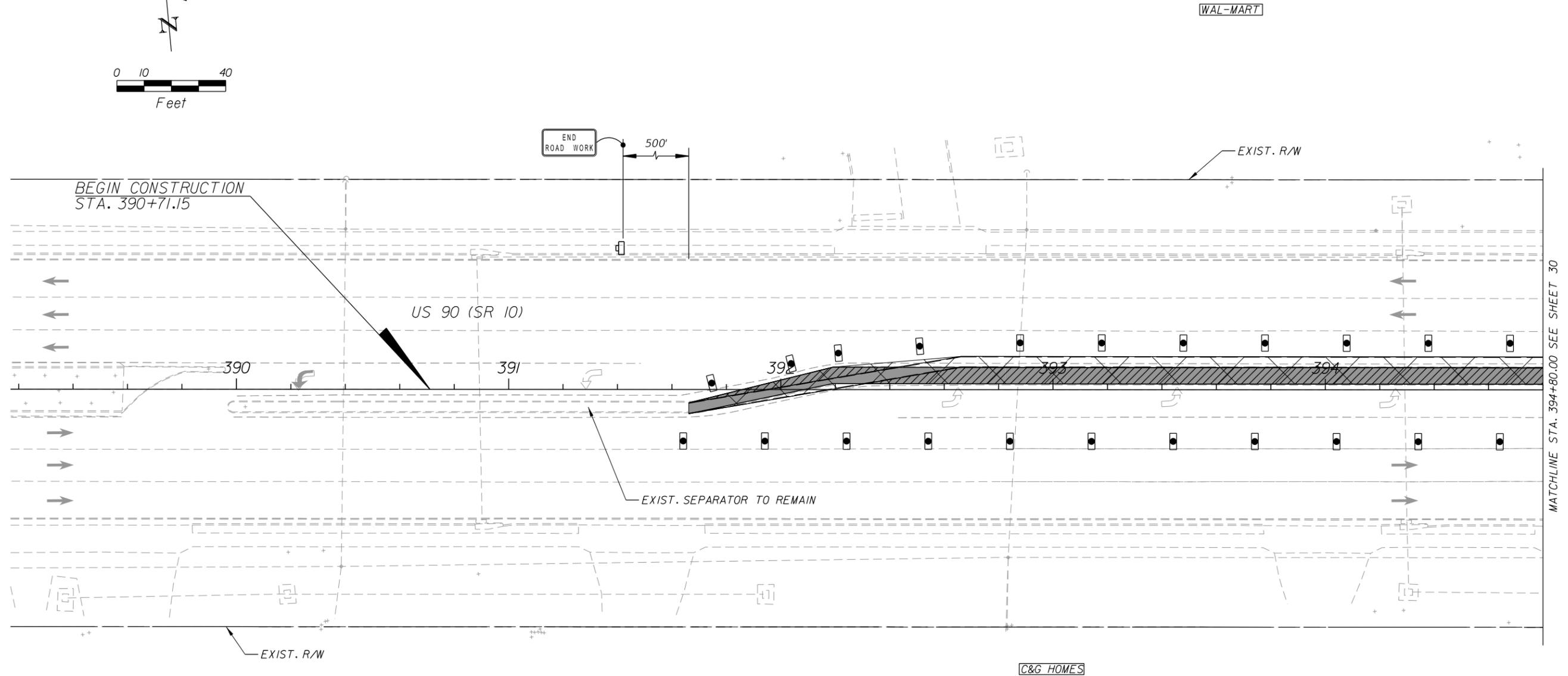
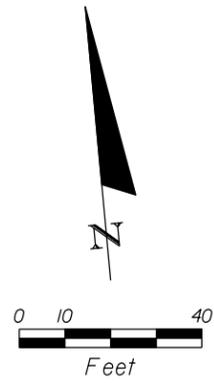
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COUNTY	COLUMBIA
FPID	434625-1-58-01

**TRAFFIC CONTROL PLAN
PHASE 1**

SHEET
NO.
29



MATCHLINE STA. 394+80.00 SEE SHEET 30

REVISIONS	
DATE	DESCRIPTION

**US 90 AND BASCOM NORRIS DR.
INTERSECTION IMPROVEMENTS**

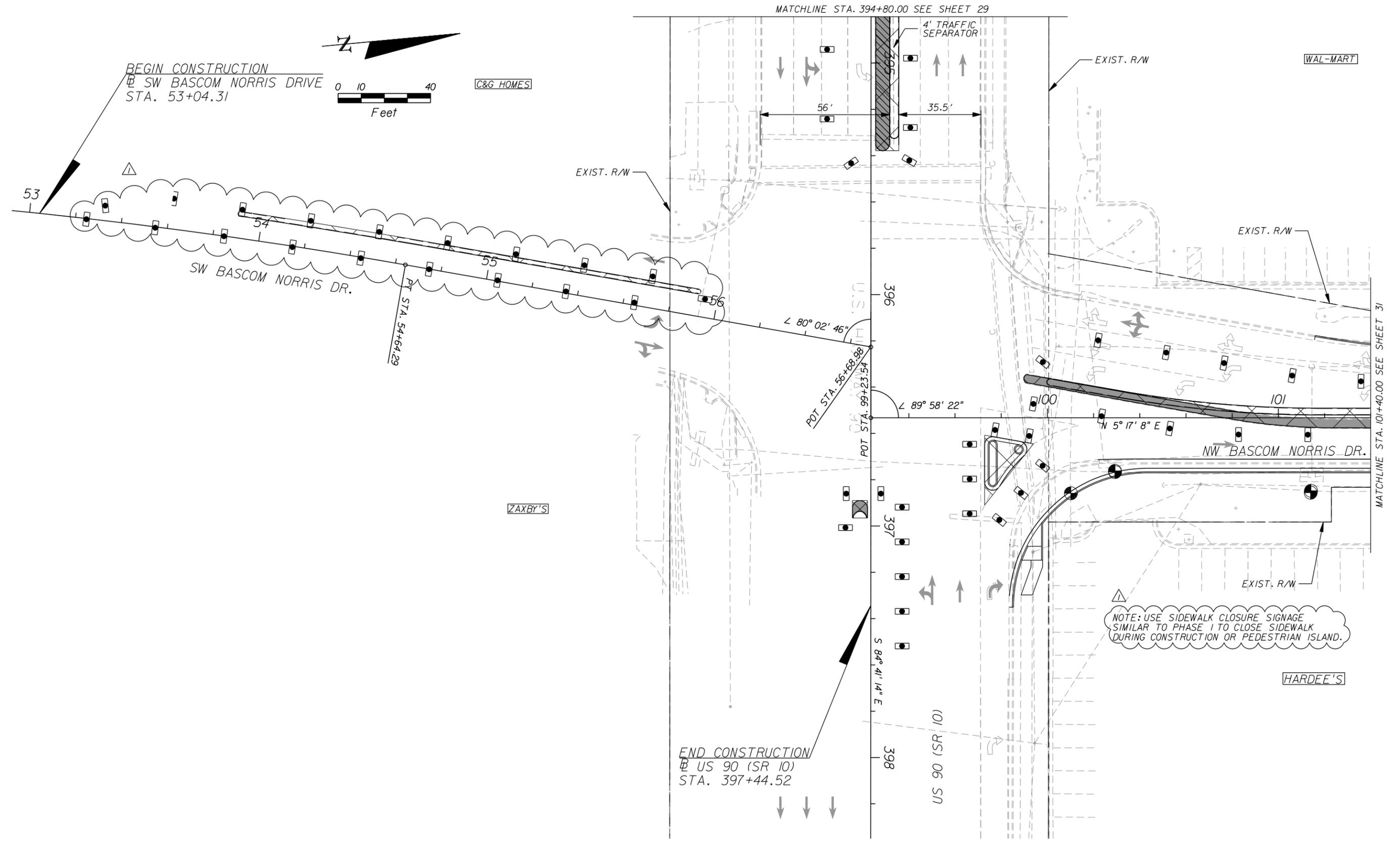
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Certificate of Authorization No. 7917
Walter J. Nemecek, III, PE | No. 58122



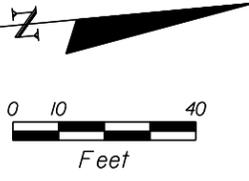
COUNTY	COLUMBIA
FPID	434625-1-58-01

**TRAFFIC CONTROL PLAN
PHASE 2**

SHEET NO.
30



BEGIN CONSTRUCTION
 @ SW BASCOM NORRIS DRIVE
 STA. 53+04.31



C&G HOMES

WAL-MART

ZAXBY'S

HARDEE'S

END CONSTRUCTION
 @ US 90 (SR 10)
 STA. 397+44.52

MATCHLINE STA. 394+80.00 SEE SHEET 29

MATCHLINE STA. 101+40.00 SEE SHEET 31

REVISIONS	
DATE	DESCRIPTION
10/22/2014	ADDED NOTE AND WORK ZONE FOR TRAFFIC SEPARATOR

**US 90 AND BASCOM NORRIS DR.
 INTERSECTION IMPROVEMENTS**

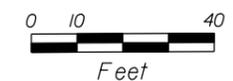
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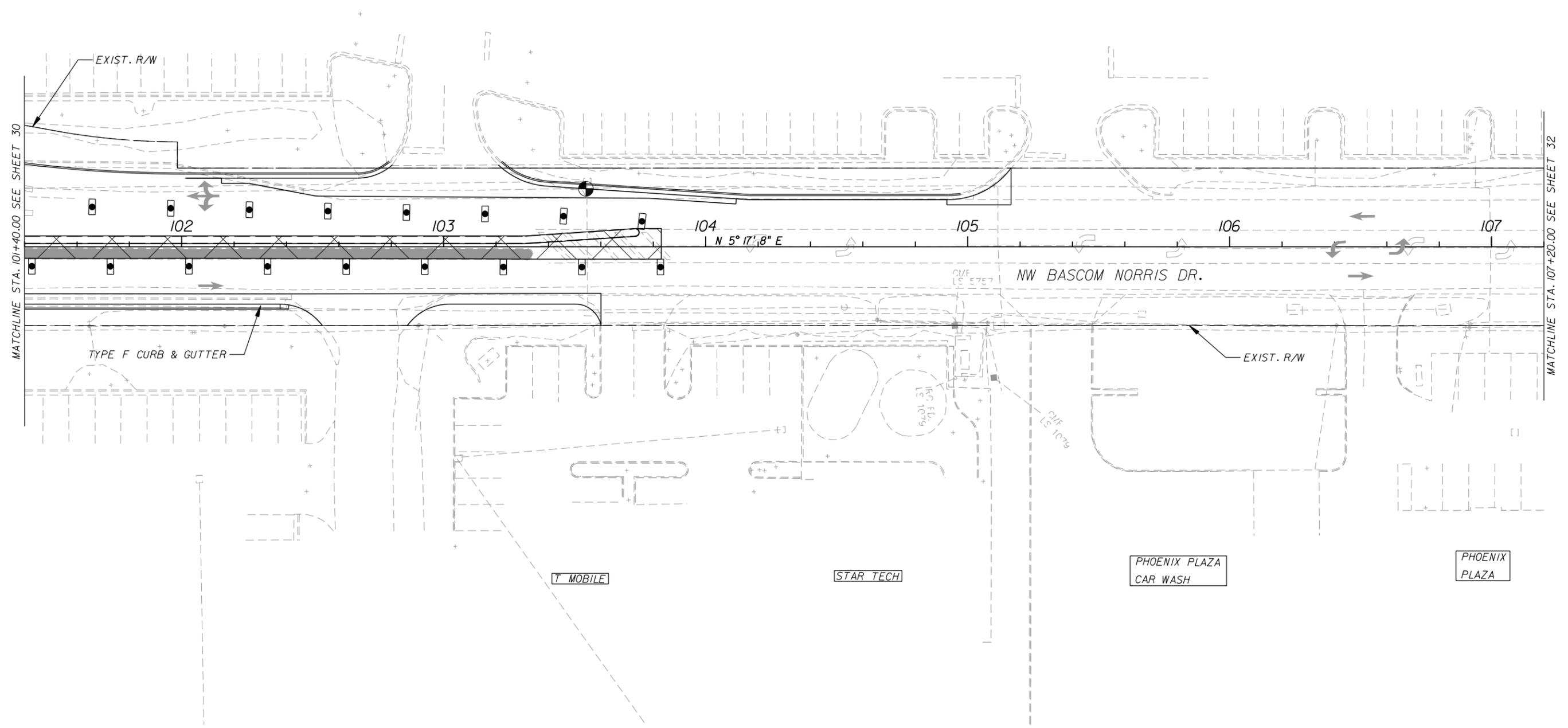
COUNTY	COLUMBIA
FPID	434625-1-58-01

**TRAFFIC CONTROL PLAN
 PHASE 2**

SHEET NO.
 31



WAL-MART



REVISIONS	
DATE	DESCRIPTION

**US 90 AND BASCOM NORRIS DR.
INTERSECTION IMPROVEMENTS**

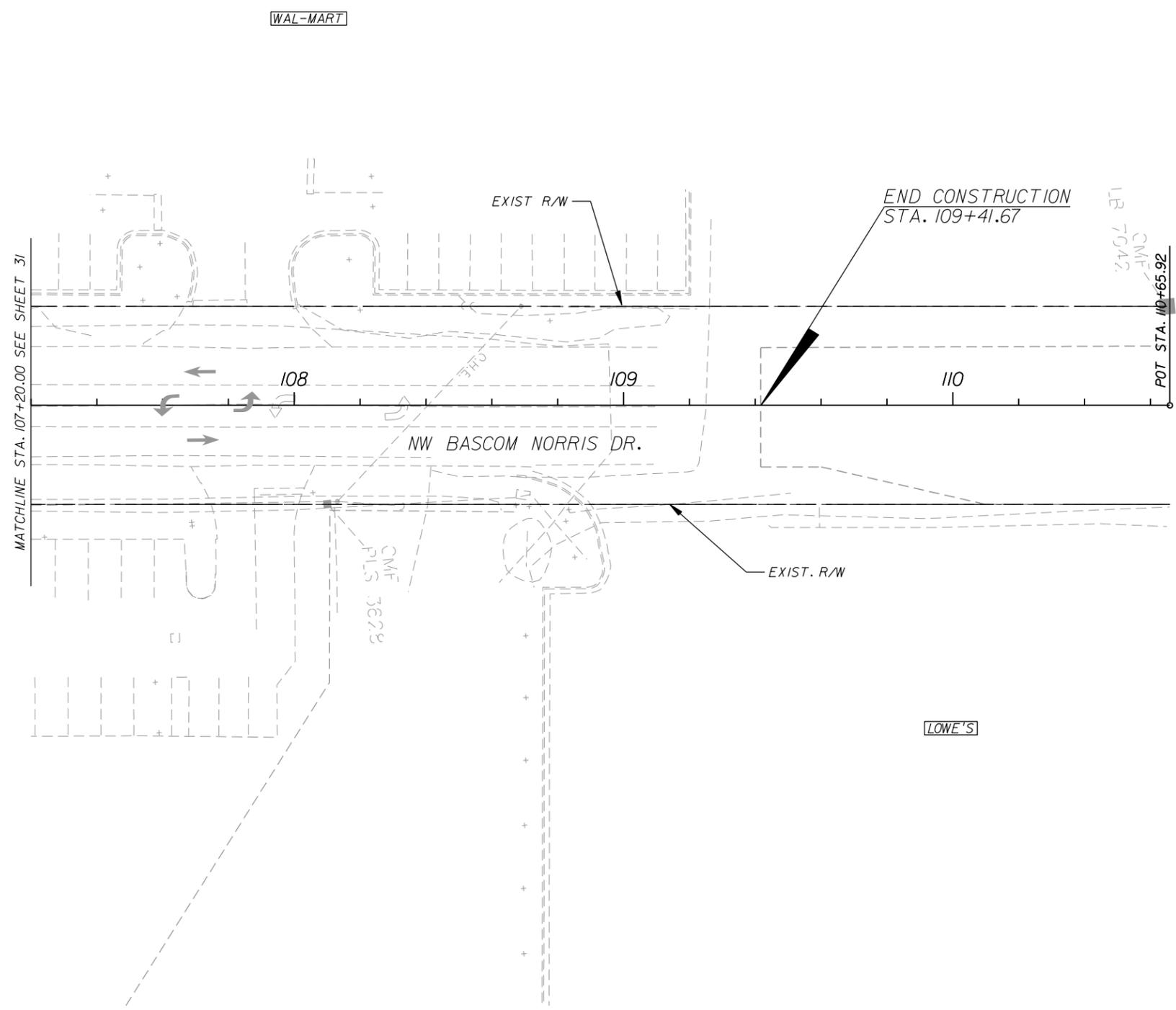
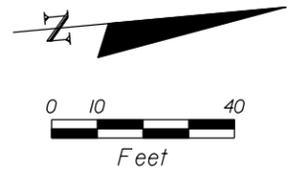
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Walter J. Nemecek, III, PE | No. 58122



COUNTY	COLUMBIA
FPID	434625-1-58-01

**TRAFFIC CONTROL PLAN
PHASE 2**

SHEET NO.	32
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REVISIONS	
DATE	DESCRIPTION

**US 90 AND BASCOM NORRIS DR.
INTERSECTION IMPROVEMENTS**

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 Walter J. Nemecek, III, PE | No. 58122



COUNTY	COLUMBIA
FPID	434625-1-58-01

**TRAFFIC CONTROL PLAN
PHASE 2**

SHEET
NO.
33

BASCOM NORRIS DRIVE AND US 90 INTERSECTION IMPROVEMENTS

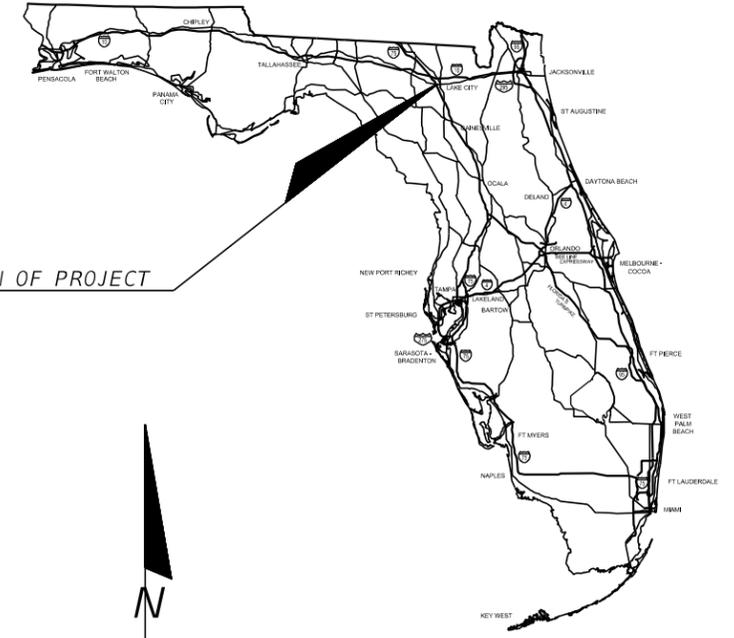
CONTRACT PLANS

FINANCIAL PROJECT ID 434625-1-58-01
COLUMBIA COUNTY
STATE ROAD NO. 10

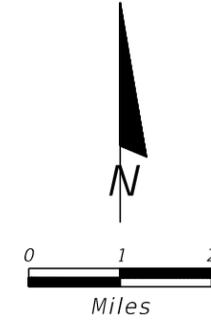
SIGNALIZATION PLANS

INDEX OF SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	GENERAL NOTES
3	TABULATION OF QUANTITIES
4	SIGNALIZATION PLAN
5	MAST ARM TABULATION
6	MAST ARM ASSEMBLIES DATA
7	STREET SIGN WORKSHEET
8	MISCELLANEOUS DETAILS



LOCATION OF PROJECT



ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:

CHRISTIAN J. GYLE P.E.
ARCADIS
1650 PRUDENTIAL DRIVE
JACKSONVILLE, FLORIDA 32207

PLANS PREPARED BY:

CHRISTIAN J. GYLE, P.E.
ARCADIS
1650 PRUDENTIAL DRIVE
JACKSONVILLE, FLORIDA 32207

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

**BID SET
DATED: 10/22/2014**

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

SIGNALIZATION PLANS
ENGINEER OF RECORD: CHRISTIAN J. GYLE, P.E.

P.E. NO.: 69159

FISCAL YEAR	SHEET NO.
14	1

PROJECT MANAGER: CHAD WILLIAMS, P.E.

SIGNALIZATION NOTES

1. THERE SHALL BE NO LOOP LEAD-INS AND SIGNAL CABLE IN THE SAME CONDUIT OR PULL BOX.
2. WHEN JACKING CONDUIT UNDER PAVEMENT, AN FDOT APPROVED GUIDANCE BORING SYSTEM MAY BE USED IN ACCORDANCE WITH SECTION 555 OF THE FDOT SPECIFICATIONS AS AN ALTERNATE METHOD OF CONSTRUCTION.
3. UTILIZE EXISTING SPARE CONDUIT RUNS WHEN POSSIBLE. IF ADDITIONAL CONDUIT RUNS ARE REQUIRED FOR NEW RUNS OF SIGNAL CABLE, LOOP LEAD-INS, OR INTERCONNECT CABLE TO ENTER EXISTING CONTROLLER CABINET, USE A PROPERLY SEALED PULLING ELL, LOCATED AS NOT TO INTERFERE WITH THE INTERNAL COMPONENTS OR WIRING. COST TO BE INCLUDED UNDER PAY ITEM SERIES 630.
4. NOTIFY GARY PINKMAN AT THE CITY OF LAKE CITY TRAFFIC OPERATIONS AT (386) 867-3207, 48 HOURS IN ADVANCE OF BEGINNING SIGNAL WORK TO OBSERVE INSTALLATION IF DESIRED.
5. ALL TYPE F LOOPS SHALL BE MODIFIED TO 30 FEET IN LENGTH AND SHALL EXTEND 4 FEET IN FRONT OF STOP BAR.
6. UNLESS SPECIFIED OTHERWISE IN THE PLANS, ALL PULL BOX COVERS TO BE FURNISHED AND INSTALLED SHALL BE NON-METALLIC.
7. THE COST OF REMOVING EXISTING PULL BOXES TO BE INCLUDED UNDER PAY ITEM SERIES 635.
8. THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE-CALL OF FLORIDA, INC. AS REQUIRED BY CHAPTER 556 OF THE FLORIDA STATUTES.
9. VERIFY VERTICALLY AND HORIZONTALLY (VVH) EXISTING UTILITIES PRIOR TO ANY DIRECTIONAL OR JACK AND BORES. COST SHALL BE INCLUDED IN THE COST OF THE BORE.
10. TREE TRIMMING SHALL BE PERFORMED AS NECESSARY FOR THE INSTALLATION OF MAST ARMS AND TO REMOVE VISIBLE OBSTRUCTION OF THE PROPOSED SIGNALS TO A MINIMUM HEIGHT OF 23 FEET ABOVE FINISHED GRADE.

	11. UTILITY CONTACT INFORMATION:			
	WATER/SEWER/GAS:	LAKE CITY PUBLIC WORKS	JASON SPARKS	386-266-1682
	TELEPHONE:	AT&T	DINO FARRUGGIO	954-249-0558
	CABLE:	COMCAST	LARRY WINBURN	904-380-7574
	ELECTRIC:	FPL	TRACY STERN	800-868-9554

CALL BEFORE YOU DIG
 SUNSHINE STATE ONE CALL
1-800-432-4770
 48 HOURS, MIN. PRIOR TO CONSTRUCTION

REVISIONS		US 90 AND BASCOM NORRIS DR. INTERSECTION IMPROVEMENTS	ARCADIS 1650 Prudential Drive, Suite 400 Jacksonville, Florida 32207 T: 904 721 2991 | F: 904 861 2450 Certificate of Authorization No. 7917 Christian J. Gyle, PE | No. 69159		COUNTY	GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION				COLUMBIA		2
10/22/2014	REVISED CONTACT INFORMATION				FPID		

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET		
			4																										
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL									
110-15-1	Arborist Work, Tree Trimming - Limbs/Roots	EA	1																				1		1				
630-2-11	Signals-Conduit (F&I)(Underground)	LF	110																					110		110			
630-2-12	Signals-Conduit (F&I)(Directional Bore)	LF	886																						886		886		
635-2-11	Pull & Splice Box, F&I, 13"X24" Cover Size	EA	7																						7		7		
646-1-11	Aluminum Signals Pole (Pedestal Detector Post)	EA	2																						2		2		
649-31-303	M/ARM(F&I)(Wind Speed 110) (60)	EA	1																						1		1		
649-31-304	M/ARM(F&I)(Wind Speed 110) (70.5)	EA	1																						1		1		
650-1-311	Traffic Signal (F&I)(3-sec)(1 way)(Aluminum)	AS	9																							9		9	
653-191	Pedestrian Signal (F&I) (LED) (1-way)	AS	2																							2		2	
660-2-106	Loop Assembly (F&I) (Type F)	EA	15																							15		15	
660-3-42	Vehical Detection System - Microwave, Relocate	EA	2																							2		2	
665-1-12	Pedestrian Detector (F&I) (Accessible)	EA	2																							2		2	
690-10	Traffic Signal Head Assmely, Removal	EA	6																							6		6	
690-20	Pedestrial Signal Assembly, Removal	EA	2																							2		2	
690-32-2	Pole Removal, Shallow	PI	2																							2		2	
690-90	Remove Conduit and Cabling	PI	1																							1		1	
690-100	Signal Equipment, Miscellaneous Removal	PI	1																							1		1	
700-3-21	Sign Panel (F&I) Overhead Mount (Up to 12 S.F.)	EA	1																							1		1	
700-3-22	Sign Panel (F&I) Overhead Mount (12-20 S.F.)	EA	1																							1		1	

REVISIONS	
DATE	DESCRIPTION

**US 90 AND BASCOM NORRIS DR.
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COUNTY
COLUMBIA
FPID
434625-1-58-01

TABULATION OF QUANTITIES

SHEET NO.
3

STANDARD MAST ARM ASSEMBLIES DATA TABLE																		
STRUCTURE ID NUMBERS	ASSEMBLY NUMBERS ⁽¹⁾	FIRST ARM			SECOND ARM			UF (deg)	LL (deg)	POLE			SPECIAL DRILLED SHAFT ^(4 & 5)					
		ARM TYPE	FAA ⁽²⁾ (ft.)	FBA ⁽²⁾ (in.)	ARM TYPE	FAA ⁽²⁾ (ft.)	FBA ⁽²⁾ (in.)			POLE TYPE	UAA ⁽³⁾ (ft.)	UB (ft.)	UCA ⁽³⁾ (in.)	DA (ft.)	DB (ft.)	RA	RB	RC	RD
1	E5-T3	E5	.	.	.	.	.	.	.	T3	22	19	15.95	.	.	.	.	.
2	E6-T4	E6	.	.	.	.	.	.	.	T4	23	20	18.81	.	.	.	.	.
	
	
	
	
	
	

TABLE NOTES:

1. Assembly Number Legend

Single Arm:

Arm Type - Pole Type = D# - S#
 = E# - T#
 = F# - W#

Double Arm:

First Arm Type - Second Arm Type - Pole Type = D# - D# - S#
 = E# - E# - T#
 = F# - F# - W#

- If an entry appears in columns "FAA" and "FBA", a shorter arm is required. This is obtained by removing length from the arm tip. For these cases the mast arm length shall be shortened from "FA" to "FAA" and the tip diameter shall be increased from "FB" to "FBA".
- If an entry appears in columns "UAA" and "UCA", a shorter pole is required. This is obtained by removing length from the pole tip. For these cases the pole height shall be shortened from "UA" to "UAA" and the pole tip diameter shall be increased from "UC" to "UCA".
- The foundations for Standard Mast Arm Assemblies are pre-designed and are based upon the following conservative soil criteria which covers the great majority of soil types found in Florida. Only complete the "Special Drilled Shaft" data information if site conditions dictate drilled shafts with additional foundation capacity.

Classification = Cohesionless (Fine Sand)
 Friction Angle = 30 Degrees (30°)
 Unit Weight = 50 lbs. / cu. ft. (assumed saturated)

- Values have been provided for the Special Drilled Shaft to increase the foundation capacity.

GENERAL NOTES:

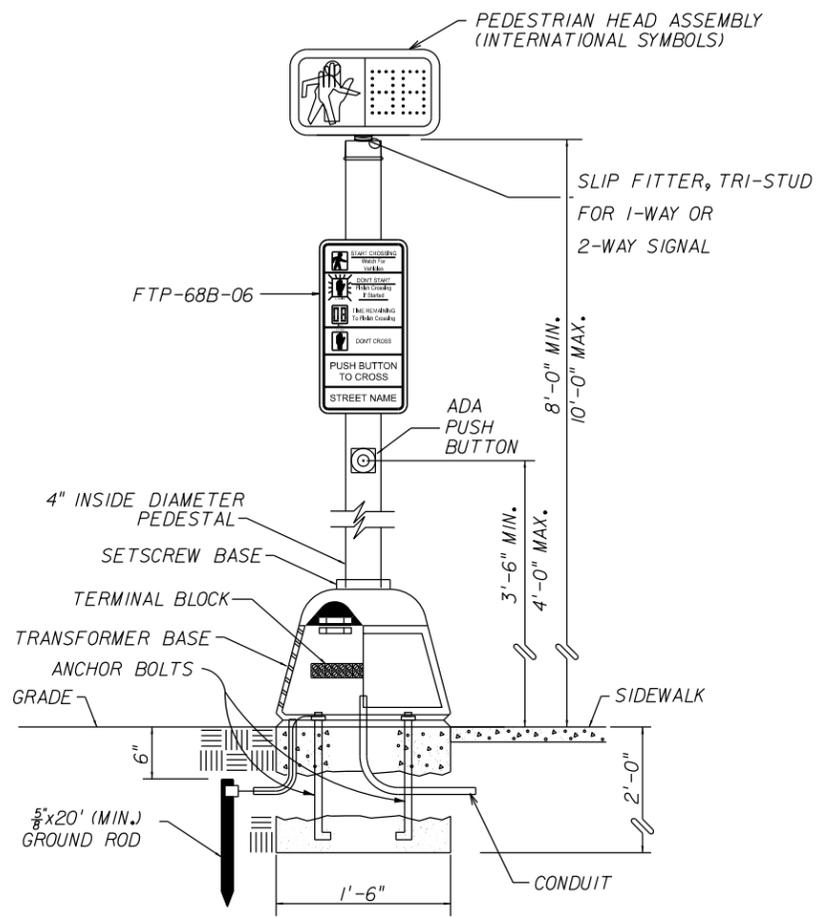
- Work this sheet with the Signal Designer's "Mast Arm Tabulation". See "Mast Arm Tabulation" for special instructions that include non-standard Handhole location, paint color, terminal compartment requirement, and pedestrian features.
- Work with Index Nos. 17743 and 17745.

DRILLED SHAFT NOTES:

- CSL Tubes shall be schedule 80 PVC above the top of the reinforcing cage.

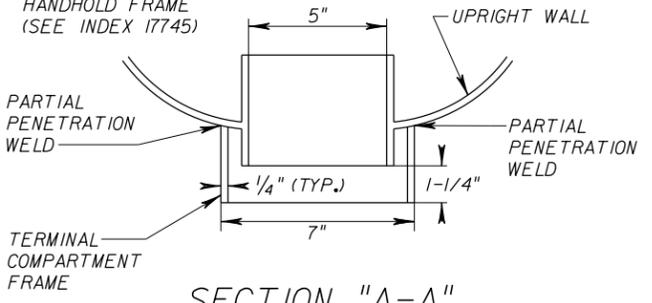
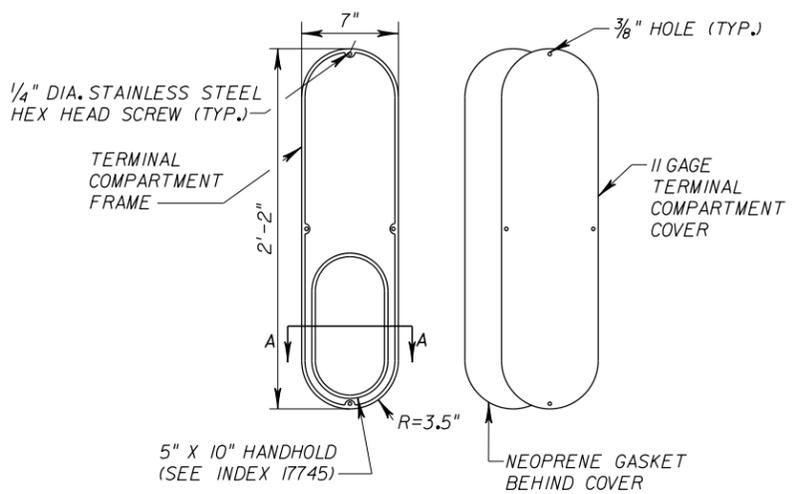
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DATE	DESCRIPTION				COLUMBIA		6
		FPID					

434625-1-58-01

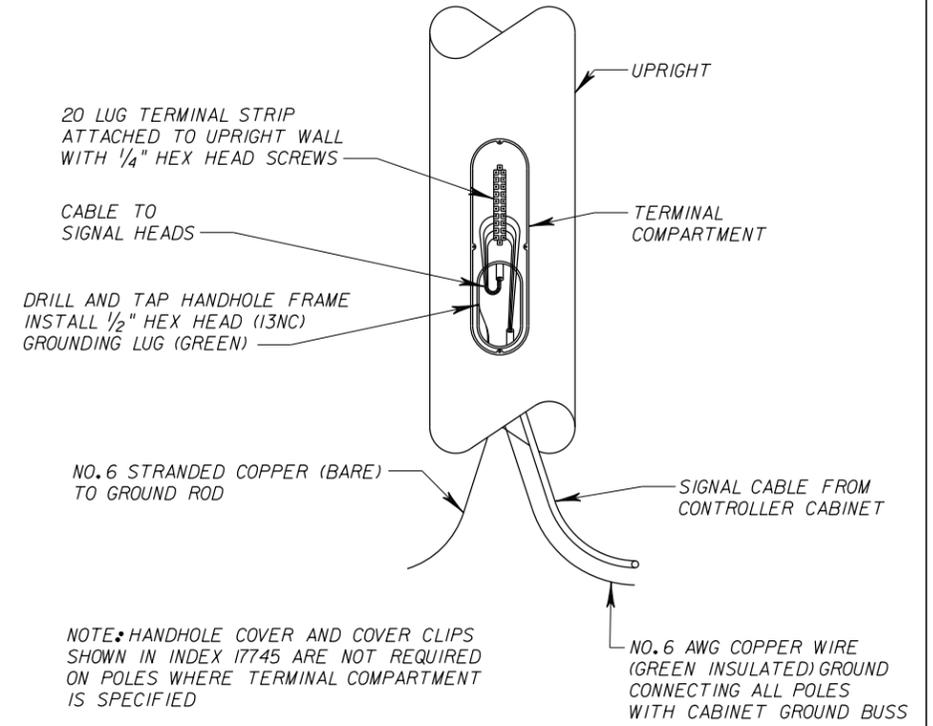


PEDESTRIAN SIGNAL PEDESTAL DETAIL
N.T.S.

- Notes:**
1. Ped detector, Ped sign and Ped signal shall be oriented facing the crosswalk they service.
 2. When 2 Ped signals are mounted on the same pedestal the Ped signs shall be cantilevered as needed to mount at the same height.
 3. Use Class I concrete for foundation.



SECTION "A-A"
N.T.S.
TERMINAL COMPARTMENT FRAME AND COVER DETAIL
N.T.S.



WIRING DETAILS
N.T.S.

REVISIONS	
DATE	DESCRIPTION

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MISCELLANEOUS DETAILS

SHEET NO.
8