

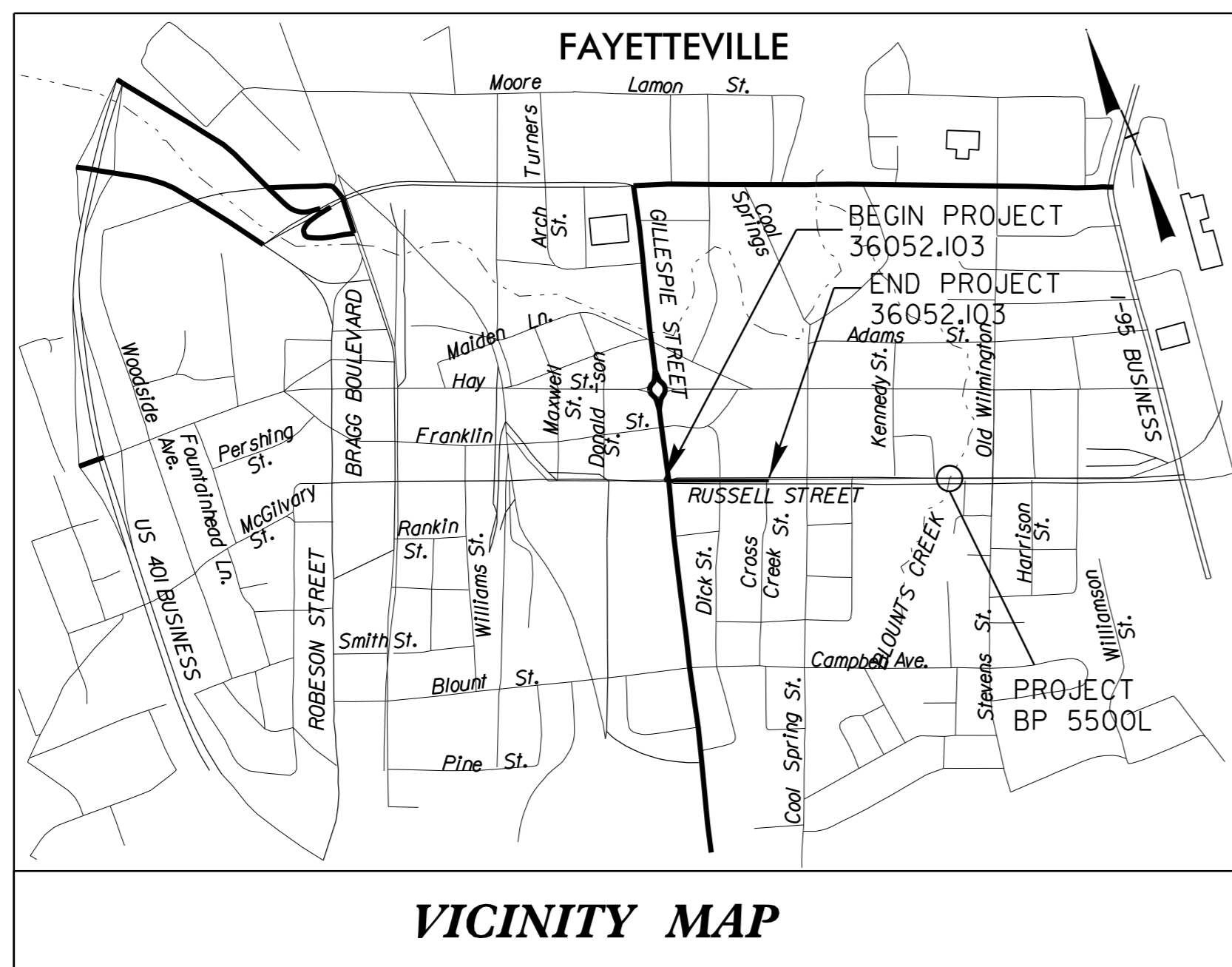
09/08/99

See Sheet 1-A For Index of Sheets

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	36052.103	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
36052.103		PE, R / W, UTIL, CONST	
36052.103			

PROJECT: 36052.103
CONTRACT: DF00100

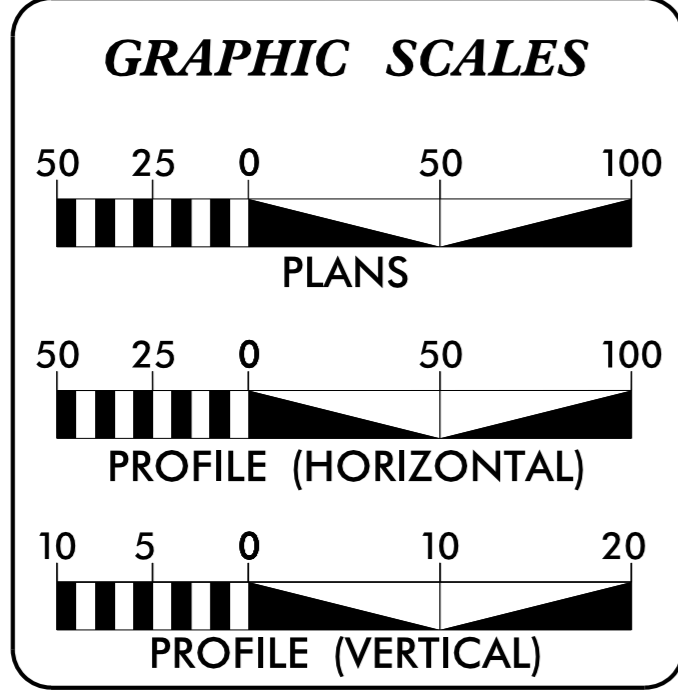
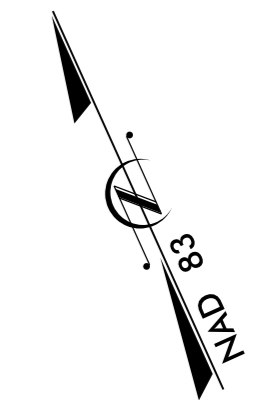
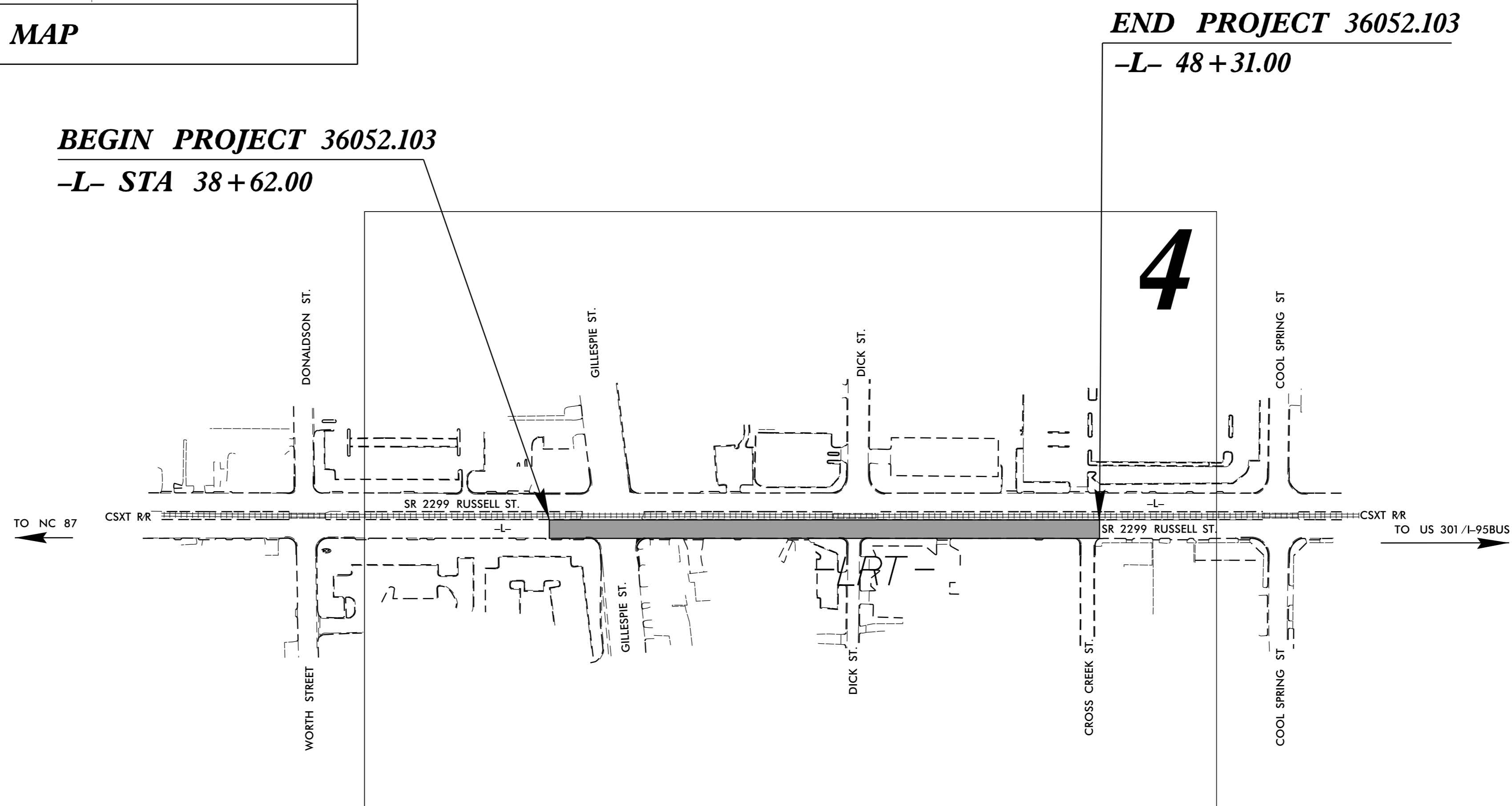


CUMBERLAND COUNTY

LOCATION: SR 2299 (RUSSELL STREET), FAYETTEVILLE, NC

**TYPE OF WORK: GRADING, PAVING, DRAINAGE, UTILITY CONSTRUCTION
& PAVEMENT MARKINGS**

VICINITY MAP



DESIGN DATA

ADT 2012 =	8,900
ADT 2023 =	11,600
V =	45 MPH

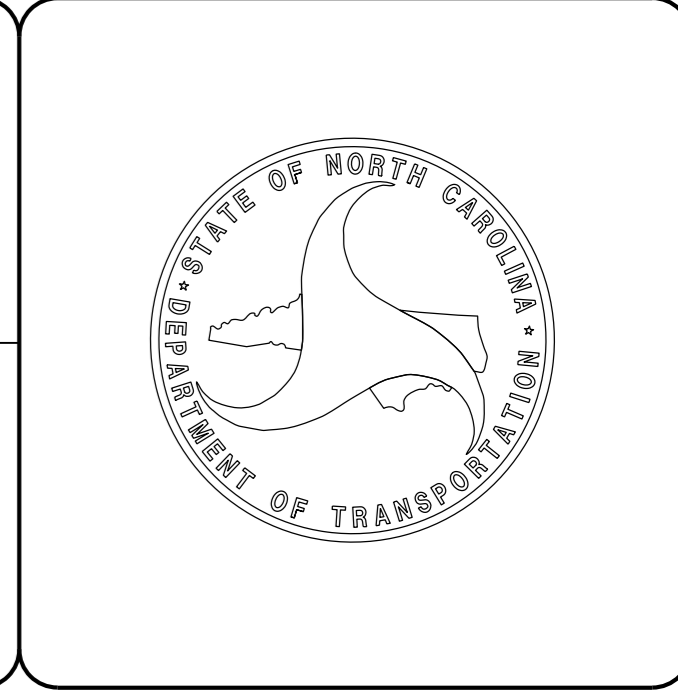
PROJECT LENGTH

LENGTH OF STATE PROJECT 36052.103 = 0.18 MILES

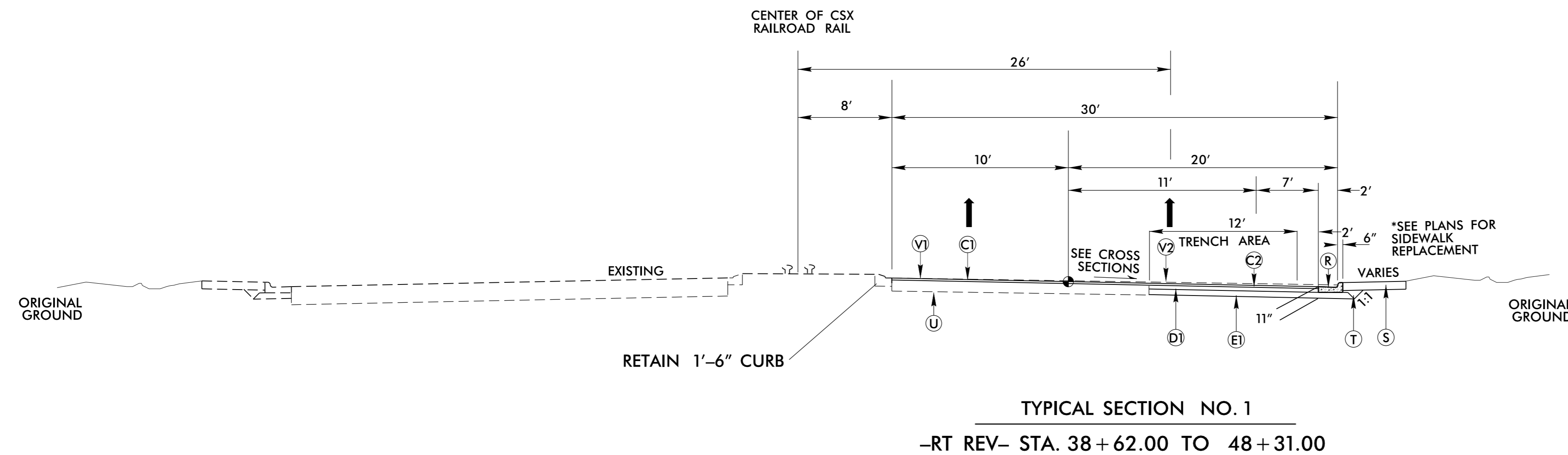
Prepared in the Office of:

DIVISION OF HIGHWAYS
431 TRANSPORTATION DRIVE, FAYETTEVILLE, NC 28301

2012 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: NA	SEAN MATUSZEWSKI PROJECT ENGINEER
LETTING DATE: JULY 22, 2015	RICK HANDLIN PROJECT DESIGN ENGINEER



08-JUL-2015 11:17
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 \$\$\$USERNAME\$\$\$



*** NOTES TO THE CONTRACTOR**

THE CONTRACTOR SHALL BE REQUIRED TO INSTALL THE 36" STORM DRAINAGE AND THE 12" DUCTILE IRON WATER LINE IN DURING THE SAME TRENCHING OPERATION.

THE CONTRACTOR SHALL REMOVE THE EXISTING 2'X6" CURBING AND 4" SIDEWALK AND PLACE THE PROPOSED 2'X6" CURBING AND 4" SIDEWALK IN THE SAME LOCATION.

THE CONTRACTOR WILL BE REQUIRED TO REMOVE PAVEMENT UNDER THIS CONTRACT. THE PAVEMENT REMOVAL INCLUDES BOTH ASPHALT AND CONCRETE.

THE CONTRACTOR SHALL SUBMIT A PLAN FOR THE MEANS AND METHOD OF MAINTAINING STORM WATER DRAINAGE IN CONJUNCTION WITH AND WHILE INSTALLING THE PROPOSED STORM DRAINAGE TO JASON SALISBURY (RESIDENT ENGINEER) PRIOR TO BEGINNING ANY DRAINAGE WORK.

CONTRACTOR SHALL COORDINATE WITH LOCAL TRAFFIC SERVICES UNIT PRIOR TO THE INSTALLATION OF ALL PROPOSED SIGNAL DESIGN AND PLACEMENT OF ALL PAVEMENT MARKINGS.

FOR SIGNAL WORK, CONTACT FRANK WEST 910-486-1452, 28 DAYS PRIOR TO PLACEMENT.

FOR PAVEMENT MARKING, CONTACT KENT LANGDON 910-486-1452, 14 DAYS PRIOR TO FINAL PLACEMENT.

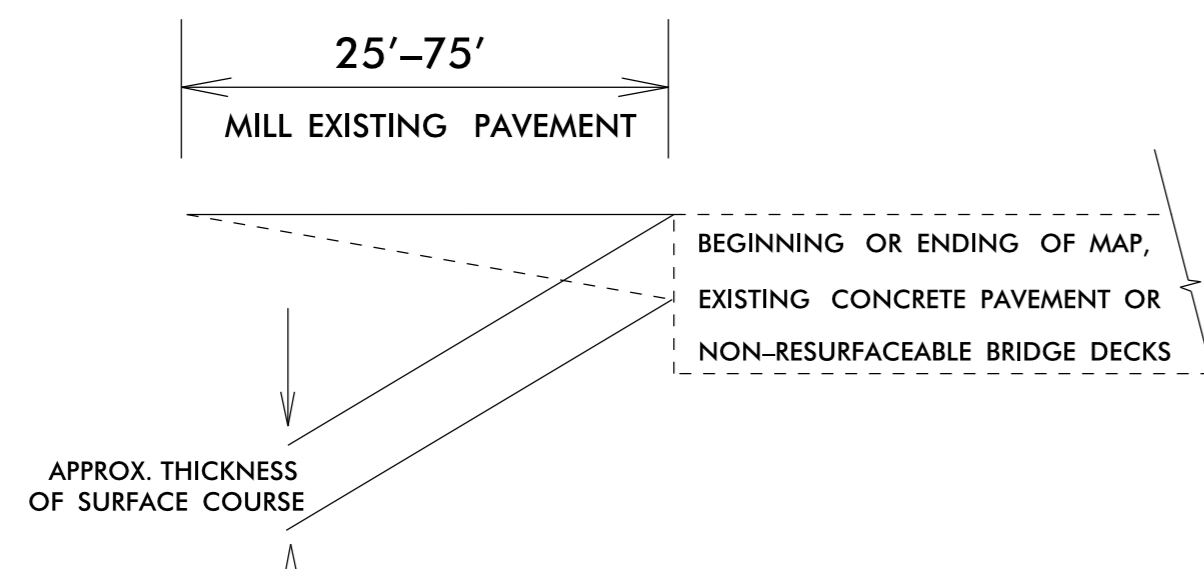
MILLING AT PAVEMENT TIE-INS

NOTES TO CONTRACTOR

For surface mixes over 1" in thickness, mill the existing pavement in accordance with the following sketch as directed by the Engineer.

Locations shall include ties into existing concrete pavement, at bridge approaches where the bridge will not be resurfaced, and at the beginning and ending point of each resurfacing map.

Perform the work in accordance with Section 607 of the January 2012 North Carolina Department of Transportation Standard Specifications for Roads and Structures. Resurfacing will be accomplished at the same time as the milling operation.

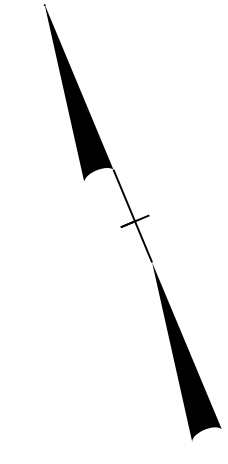


PAVEMENT SCHEDULE

C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 336 LBS. PER SQ. YD.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
R	2' X 6" CONCRETE CURB AND GUTTER
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V1	0"-1.5" CURB MILLING
V2	VARIOUS DEPTH MILLING BITUMINOUS PAVEMENT.

PROJECT NOTES

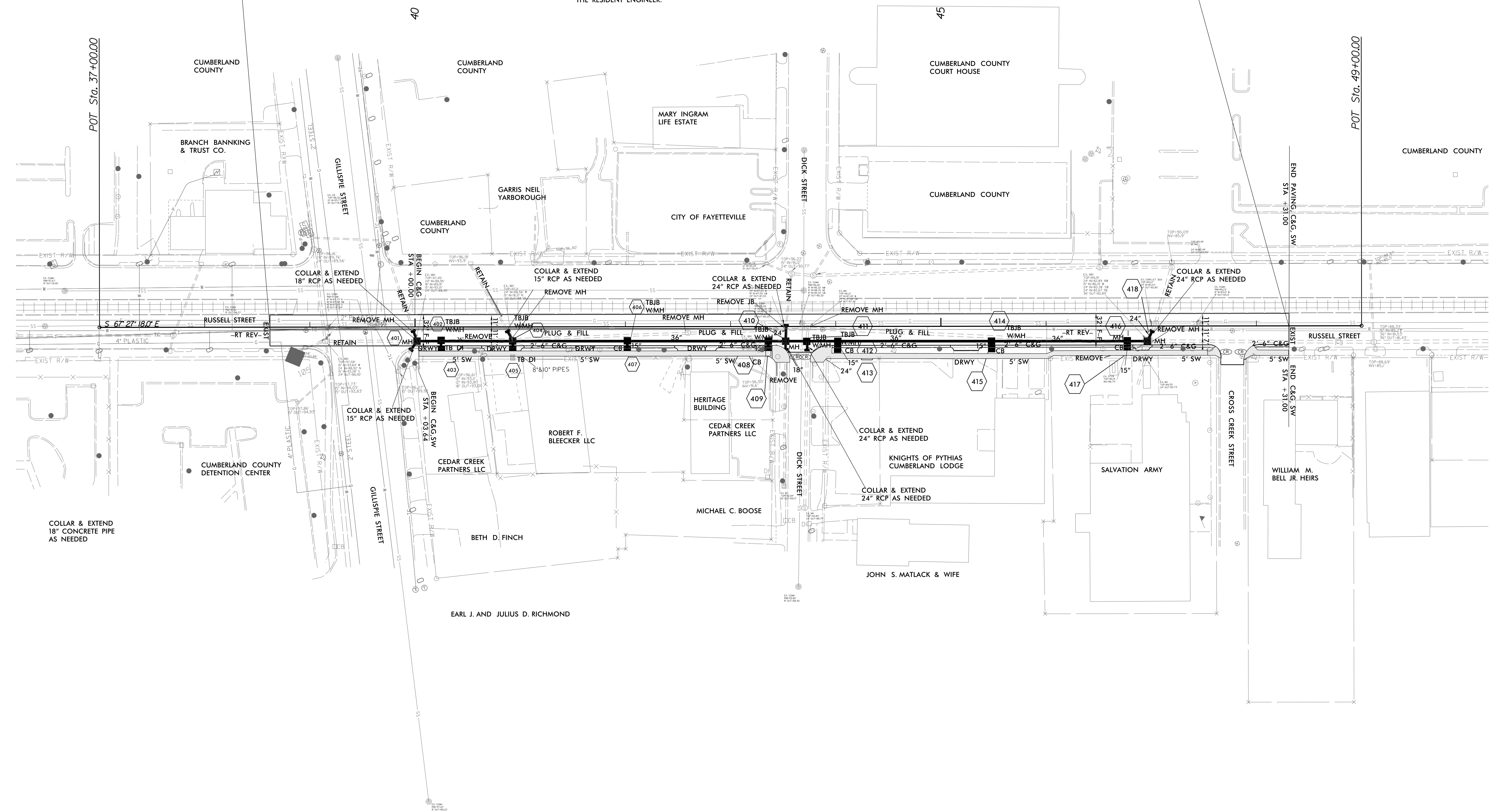
- The Contractor shall not work on both sides of the road simultaneously within the same area.
- Ingress and egress shall be maintained to all businesses dwellings on the project.
- at the end of each workday, the Contractor shall be required to backfill any area adjacent to existing travelway that has been graded leaving no more than a 3" drop-off.
- A minimum of two-way, two-lane traffic (plus all existing left and right turn lanes) shall be maintained during periods of construction inactivity.
- The Contractor shall not be allowed to stop traffic for more than 5 minutes at a time in any one direction.
- During periods of construction inactivity, the difference in elevation between lanes shall not exceed 1½ inch.
- Access to police and fire stations, fire hydrants, and hospitals shall be maintained at all times.
- During periods of construction inactivity, place cones/drums 3' from existing edge of pavement (travelway) as directed by the Engineer.
- Channelizing devices in work areas shall be spaced no greater than 10' on center in radii, and shall be set 3' off the edge of travelway, unless otherwise indicated on plans.
- Contractor to install and maintain all Erosion Control devices as directed by the Engineer.
- Contractor shall not store their materials or equipment on CSXT's property or where they may potentially interfere with CSXT's operations.



BEGIN PROJECT 36052.103
-RT REV- STA 38+62.00

END PROJECT 36052.103
-RT REV- STA 48+31.00

NOTE:
CONTRACTOR SHALL REMOVE RCP
WITHIN THE TRENCHING LIMITS &
PLUG AND FILL AS SHOWN ON
THE PLANS OR DIRECTED BY
THE RESIDENT ENGINEER.



REVISIONS

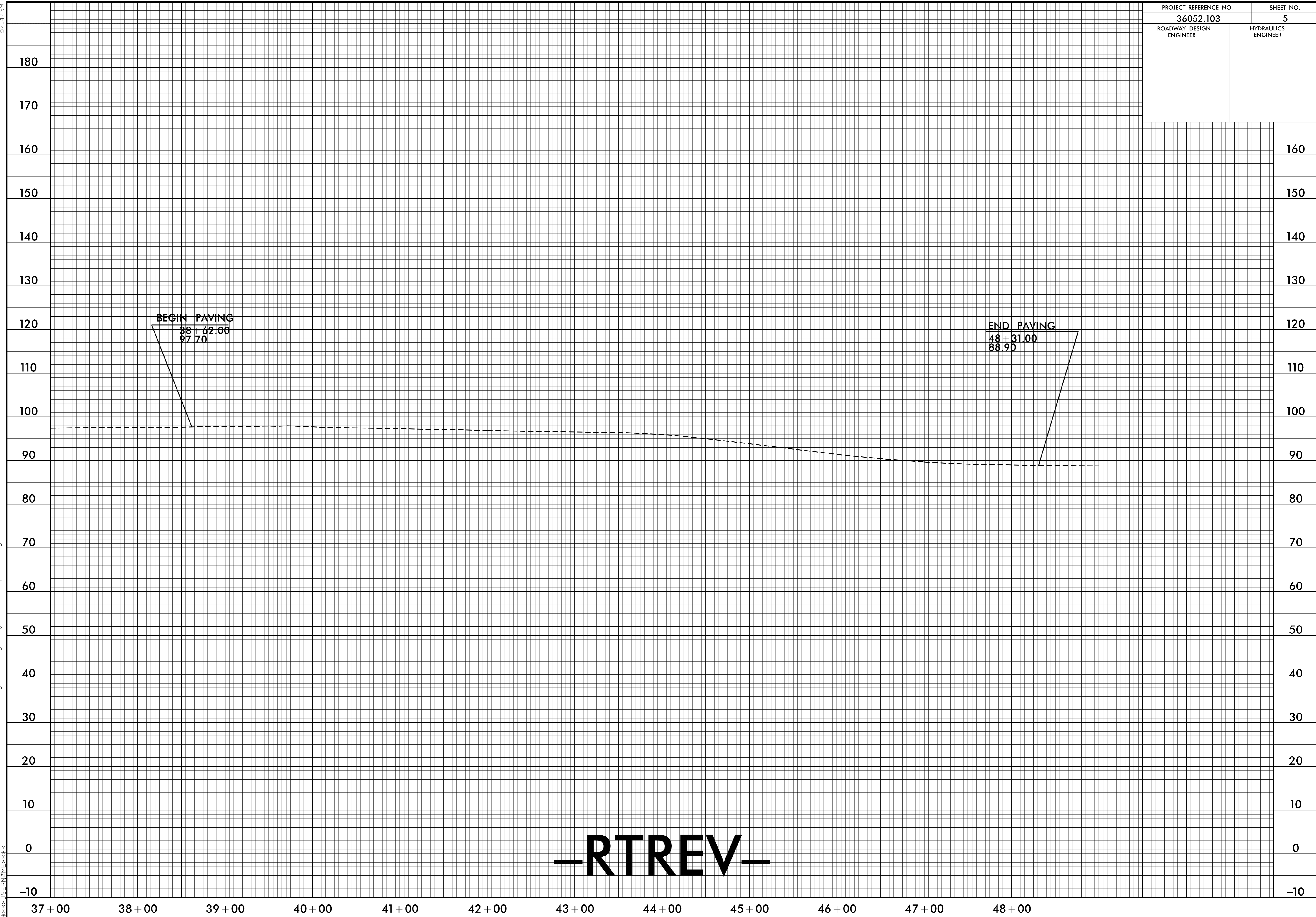
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Russell Street SR 2299
36052.103
36052.103

5/14/99

08_July_2015 11:31 \\36052.103 SR 2299 Russel1 Street Drainage\Roadway\Proj\36052.103.pfl.sht.dgn

PROJECT REFERENCE NO.	SHEET NO.
36052.103	5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



180
170
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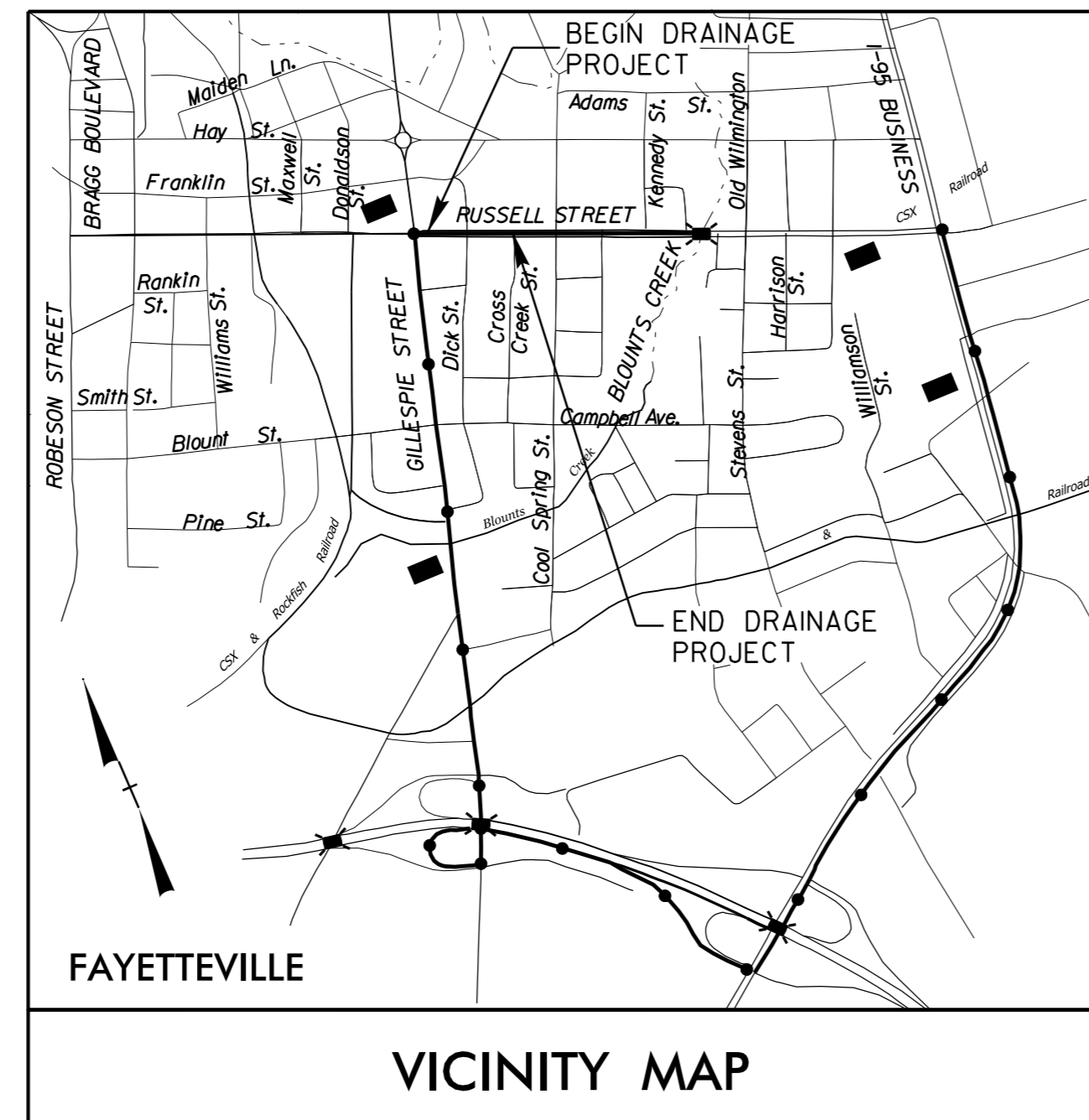
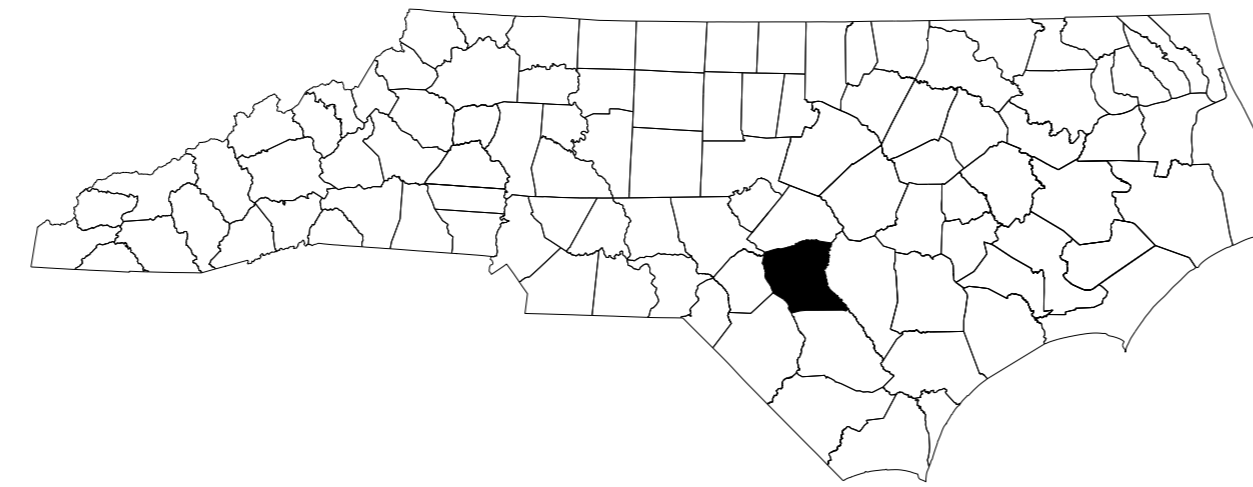
37+00 38+00 39+00 40+00 41+00 42+00 43+00 44+00 45+00 46+00 47+00 48+00

-RTREV-

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

CUMBERLAND COUNTY



VICINITY MAP
OFF-SITE DETOUR ROUTE ●●●●

LOCATION: SR 2299 (RUSSELL STREET), FAYETTEVILLE, NC

INDEX OF SHEETS

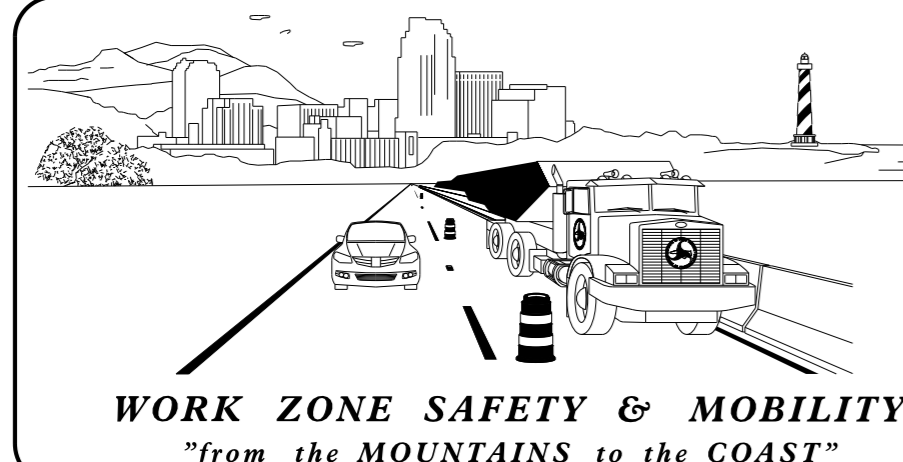
SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES, LOCAL NOTES) AND PHASING
TMP-2	SPECIAL SIGN DESIGN(S)
TMP-3 THRU TMP-3A	TEMPORARY TRAFFIC CONTROL DETAILS
TMP-4 THRU TMP-4A	TEMPORARY TRAFFIC CONTROL DETOURS

SHEET NO.
TMP-1

36052.103

TIP PROJECT:

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N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
PHONE: (919) 773-2800 FAX: (919) 771-2745

J. S. BOURNE, P.E. STATE TRAFFIC MANAGEMENT ENGINEER
J. S. KITE TRAFFIC CONTROL PROJECT ENGINEER
D. A. PARKER TRAFFIC CONTROL PROJECT DESIGN ENGINEER
S. N. GREEN TRAFFIC CONTROL DESIGN ENGINEER





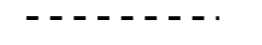
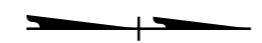
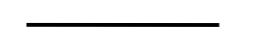
ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

<u>STD. NO.</u>	<u>TITLE</u>
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1180.01	SKINNY-DRUM

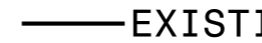

LEGEND

GENERAL






-  DIRECTION OF TRAFFIC FLOW
-  DIRECTION OF PEDESTRIAN TRAFFIC FLOW
-  EXIST. PVMT.
-  NORTH ARROW
-  PROPOSED PVMT.

-  WORK AREA




PAVEMENT MARKINGS

-  EXISTING LINES
-  TEMPORARY LINES

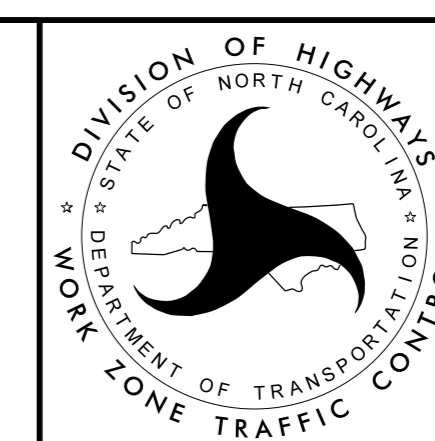
TRAFFIC CONTROL DEVICES

-  BARRICADE (TYPE III)
-  CONE
-  DRUM
-  SKINNY DRUM
-  TUBULAR MARKER

TEMPORARY SIGNING

-  PORTABLE SIGN
-  STATIONARY SIGN
-  STATIONARY OR PORTABLE SIGN

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ROADWAY STANDARD
DRAWINGS & LEGEND

GENERAL NOTES / LOCAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS, OR RESULT IN DUPLICATE, OR UNDESIRE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OF REMOVAL OF DEVICES, AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR AS DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- A) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED, OR AS DIRECTED BY THE ENGINEER.
- B) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- C) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- D) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- E) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS A DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

TRAFFIC PATTERN ALTERATIONS

- G) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- H) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

- I) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

- J) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

- K) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

- L) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

- M) PLACE TYPE III BARRICADES WITH "ROAD CLOSED" SIGN R11-2 ATTACHED OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

PAVEMENT MARKINGS AND MARKERS

- N) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

PHASING

- STEP 1: - INSTALL OFF-SITE DETOUR ROUTE SIGN ASSEMBLIES FOR THE CLOSING OF EB RUSSELL STREET (-L-). (SEE SHEETS TMP-3 AND TMP-4).

NOTE: UTILIZE DRUMS TO CLOSE ALL EXISTING DRIVEWAYS OF BUSINESSES WITHIN THE EASTBOUND RUSSELL STREET CLOSURE. (SEE SHEET TMP-3).

- CLOSE EB RUSSELL STREET (-L-) TO TRAFFIC. (SEE SHEETS TMP-3 AND TMP-4).

NOTE: CONTACT DIVISION TRAFFIC SERVICES TO BAG SIGNAL HEAD 71, THE RIGHT ARROWS OF SIGNAL HEAD 82, AND PEDESTRIAN SIGNAL HEADS P81 AND P82. (REFER TO SIGNAL PLAN 06-0014 IN THE SIGNAL CABINET)

NOTE: MAINTAIN ACCESS TO DOWNTOWN BUSINESSES DURING CONSTRUCTION. (SEE SHEET TMP-4).

THE CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WATER LINE TIE-IN WORK AT THE INTERSECTION OF EB RUSSELL STREET (-L-) AND CROSS CREEK STREET IN PHASE I, STEP 2 AT NIGHT, WORKING FROM 8:00 PM TO 6:00 AM THE FOLLOWING MORNING. (SEE INTERMEDIATE CONTRACT TIME AND SPECIAL PROVISIONS).

THE CONTRACTOR MAY WORK PHASE I, STEPS 2 AND 3 SIMULTANEOUSLY.

- STEP 2: - INSTALL THE PROPOSED DRAINAGE NETWORK AND WATER LINE, PERFORM SEWER LINE TIE-INS AND CONSTRUCT THE ROADWAY UP TO AND INCLUDING THE FINAL LAYER OF SURFACE COURSE AND PLACE FINAL PAVEMENT MARKINGS AND MARKERS ON EB RUSSELL STREET (-L-). (SEE CONSTRUCTION PLANS).

THE CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK IN PHASE I, STEP 3 IN ONE WEEKEND, WORKING FROM FRIDAY 8:00 PM TO MONDAY 6:00 AM (SEE INTERMEDIATE CONTRACT TIME AND SPECIAL PROVISIONS).

- STEP 3: - INSTALL OFF-SITE DETOUR ROUTE SIGN ASSEMBLIES FOR THE CLOSING OF GILLESPIE STREET. (SEE SHEETS TMP-3A AND TMP-4A).

NOTE: COVER CONFLICTING EB RUSSELL ST. DETOUR SIGNS. (SEE SHEET TMP-4A).

NOTE: CONTACT DIVISION TRAFFIC SERVICES TO PLACE SIGNAL TO FLASH.

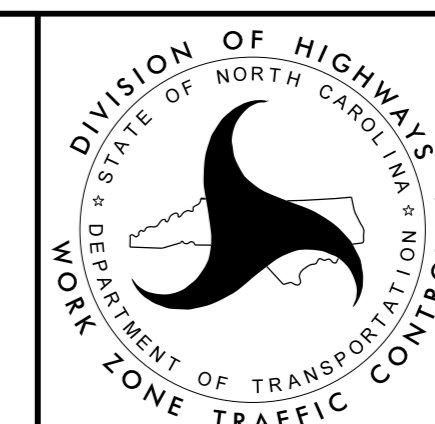
- CLOSE GILLESPIE ST. TO TRAFFIC. (SEE SHEETS TMP-3A AND TMP-4A).

- INSTALL WATER LINE AND PERFORM SEWER LINE TIE-INS ON EB RUSSELL STREET ACROSS THE INTERSECTION OF GILLESPIE ST., PLACE FINAL SURFACE COURSE, FINAL PAVEMENT MARKINGS AND MARKERS AND OPEN GILLESPIE ST. TO TRAFFIC. (SEE CONSTRUCTION PLANS AND FINAL PAVEMENT MARKING PLANS).

NOTE: UNCOVER RUSSELL ST. DETOUR SIGNS THAT HAD BEEN COVERED.

- STEP 4: - REMOVE ALL TRAFFIC CONTROL DEVICES, SIGNING AND DETOUR ROUTE SIGNING.

- OPEN TO FINAL TRAFFIC PATTERN.



**TRANSPORTATION
OPERATIONS PLAN:
PROJECT NOTES
AND PHASING**

SIGN NUMBER: name	BACKG COLOR: Fluorescent Orange	DESIGN BY: none	CHECKED BY:	Jul 07, 2015	
TYPE: STATIONARY	COPY COLOR: Orange	PROJECT ID: ID	LOCATION:	DIV: DIV	
QUANTITY: SEE PLANS	SYMBOL	X	Y	WID	HT
SIGN WIDTH: 5'-0"	AR_Type D	22	9.8	8	18
HEIGHT: 4'-0"					
TOTAL AREA: 20.0 Sq.Ft.					
BORDER TYPE: INSET					
RECESS: 0.38"					
WIDTH: 1"					
RADII: 3"					
NO. Z BARS: 2	MAT'L: 0.080" (2.0 mm) ALUMINUM				
LENGTH: 52.0					

USE NOTES: 1,2

- Legend and border shall be direct applied black non-reflective sheeting.
- Background shall be NC GRADE B fluorescent orange retroreflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

	B	U	S	I	N	E	S	S													Series/Size	Text Length	
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		A	C	C	E	S	S															D 2000	29.6
	16.2	5.9	5.3	5.4	4.3	4.7	4.1	14.1															

FILENAME: 36052.103_TC_TMP_1

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: name	BACKG COLOR: Fluorescent Orange	DESIGN BY: none	CHECKED BY:	Jul 07, 2015	
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QUANTITY: SEE PLANS	SYMBOL	X	Y	WID	HT
SIGN WIDTH: 5'-0"					
HEIGHT: 4'-0"					
TOTAL AREA: 20.0 Sq.Ft.					
BORDER TYPE: INSET					
RECESS: 0.38"					
WIDTH: 1"					
RADII: 3"					
NO. Z BARS: 2	MAT'L: 0.080" (2.0 mm) ALUMINUM				
LENGTH: 52.0					

USE NOTES: 1,2

- Legend and border shall be direct applied black non-reflective sheeting.
- Background shall be NC GRADE B fluorescent orange retroreflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

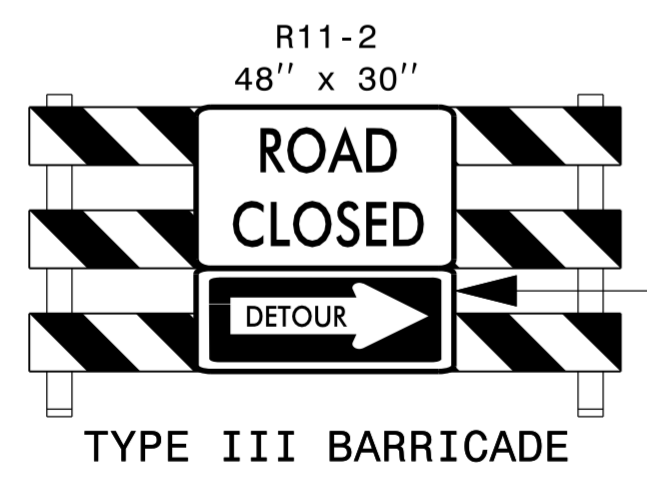
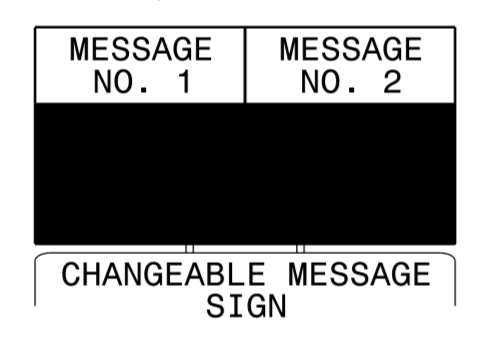
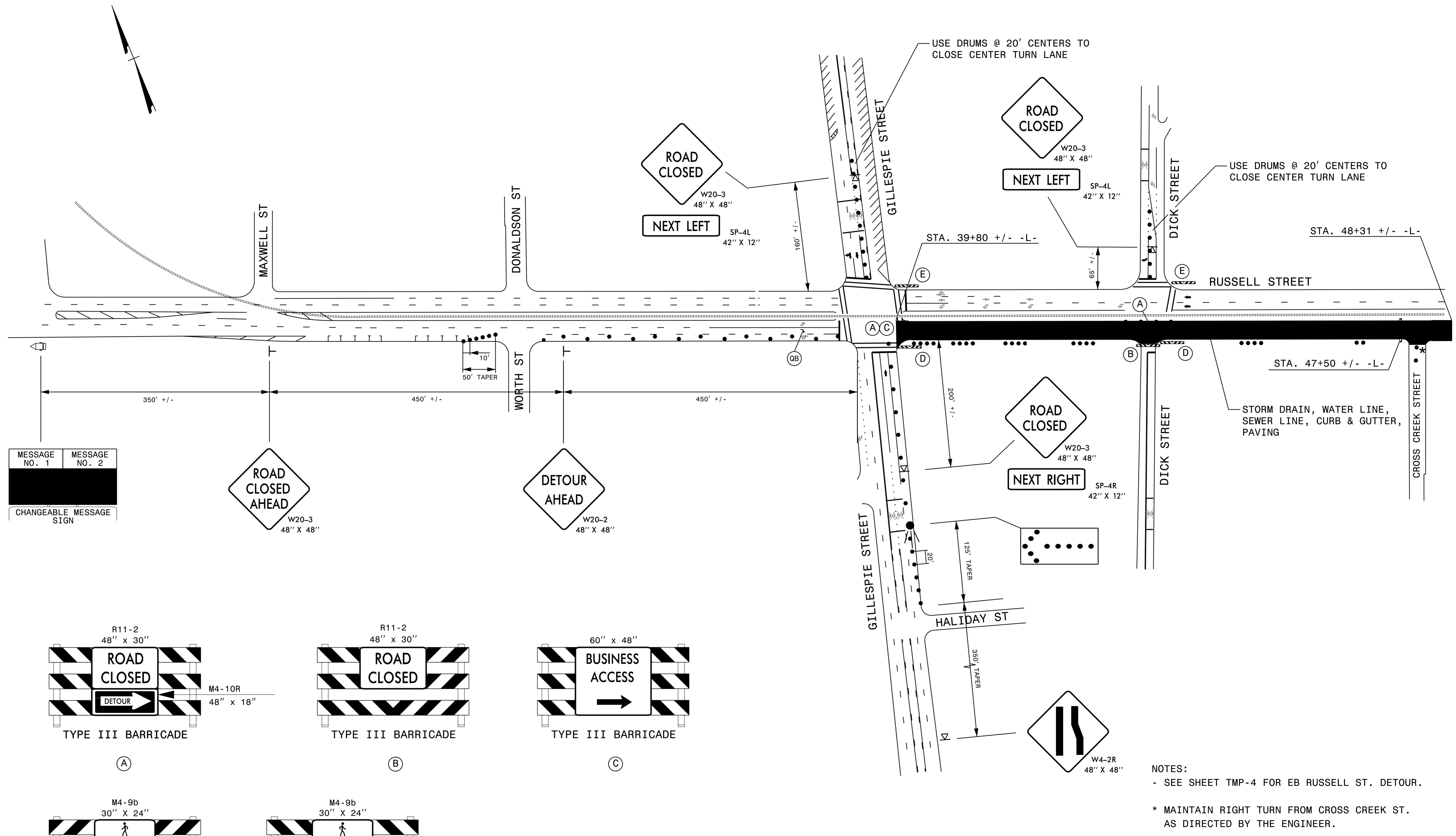
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FILENAME: 36052.103_TC_TMP_1

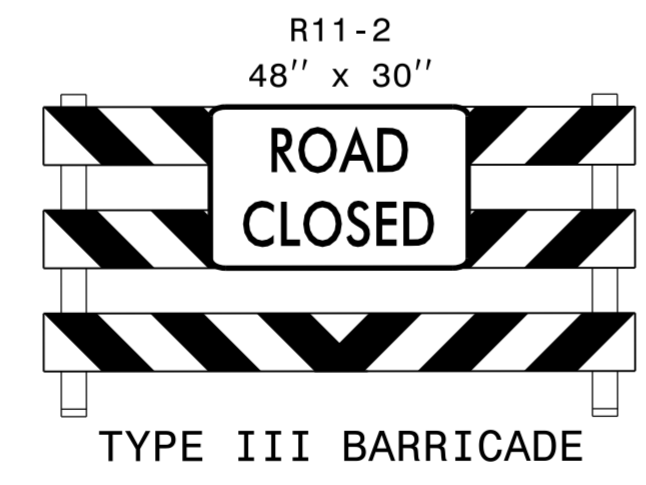
NORTH CAROLINA D.O.T. SIGN DETAIL

7/7/2015
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 User:tsngrreen

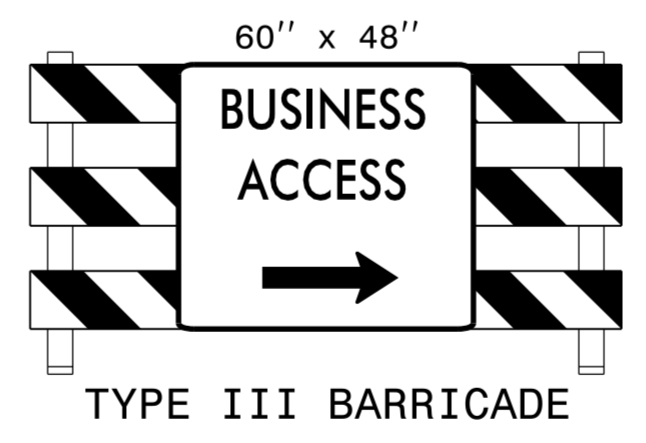
APPROVED: _____		SPECIAL SIGN DESIGN
DATE: _____		



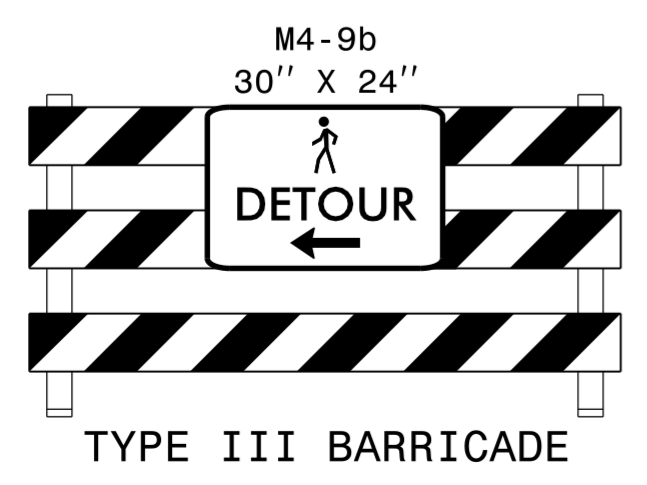
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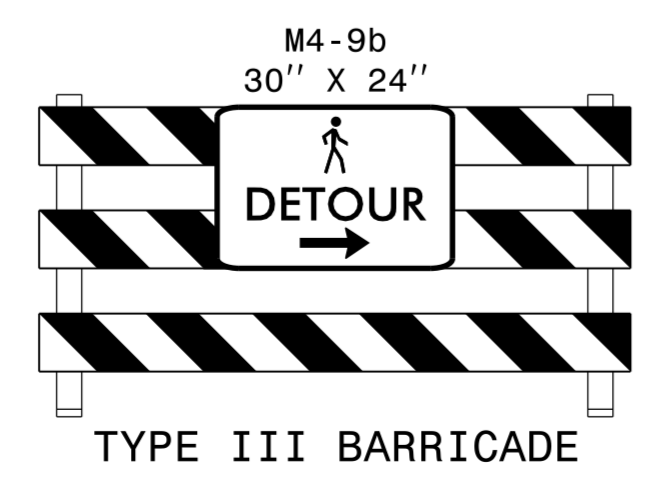
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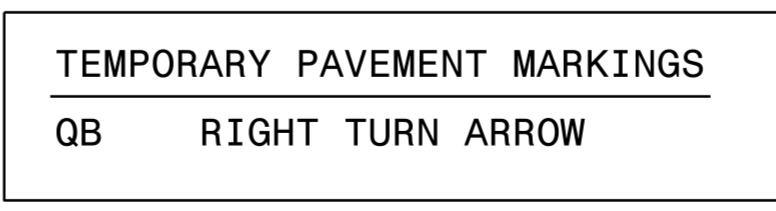
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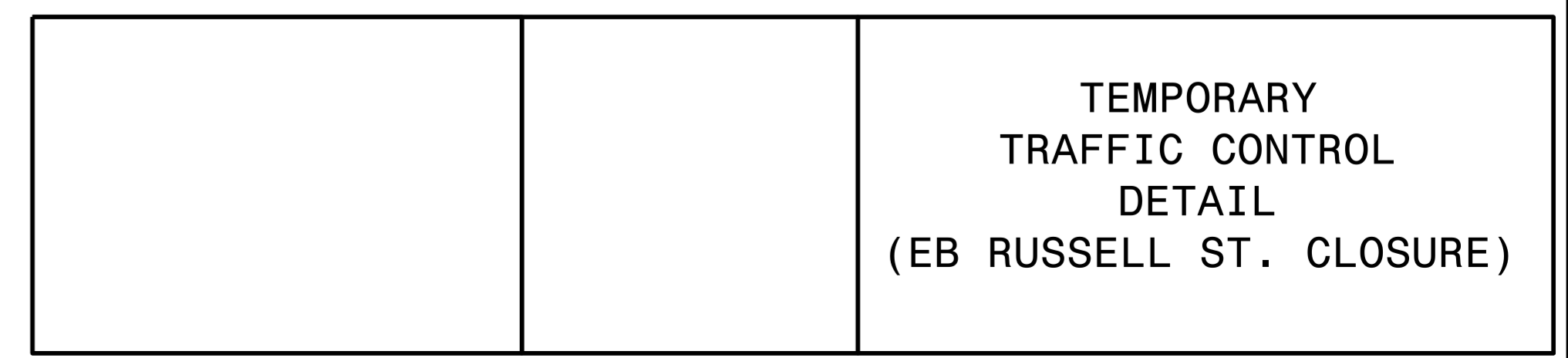
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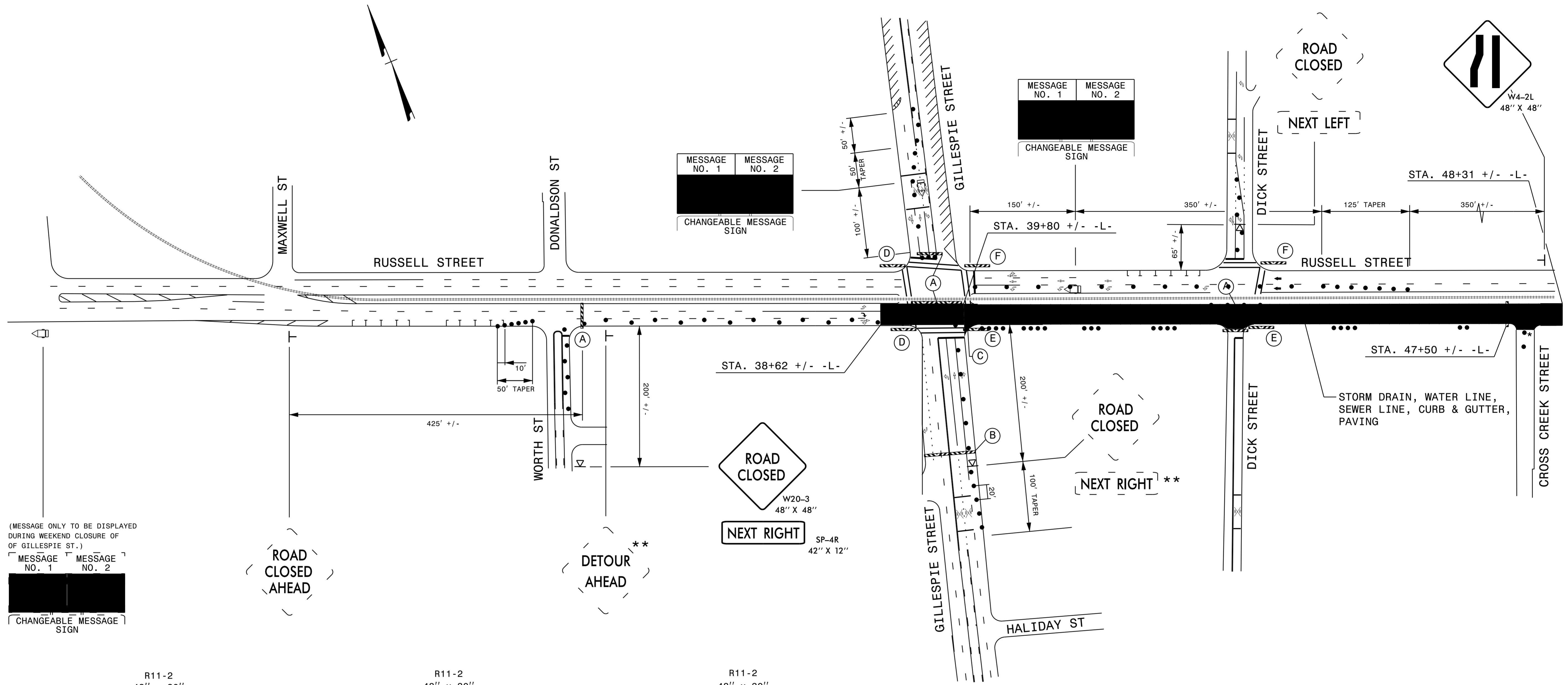
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NOTES:
 - SEE SHEET TMP-4 FOR EB RUSSELL ST. DETOUR.
 * MAINTAIN RIGHT TURN FROM CROSS CREEK ST. AS DIRECTED BY THE ENGINEER.



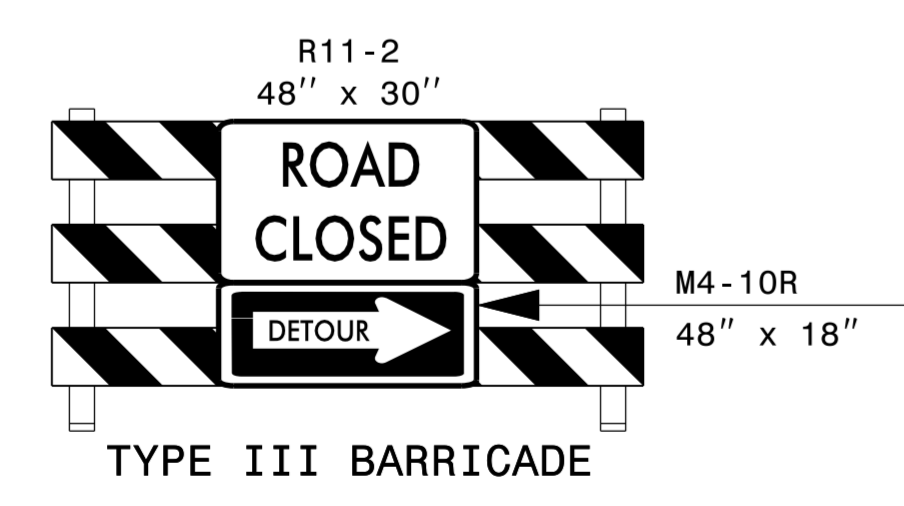
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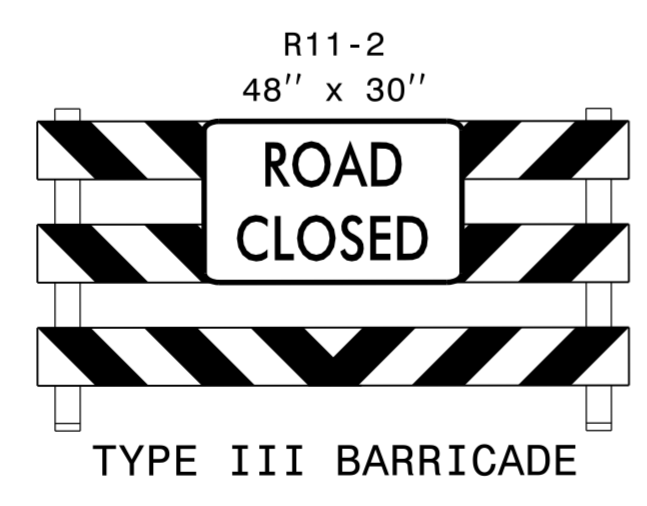
(MESSAGE ONLY TO BE DISPLAYED DURING WEEKEND CLOSURE OF OF GILLESPIE ST.)

MESSAGE NO. 1	MESSAGE NO. 2

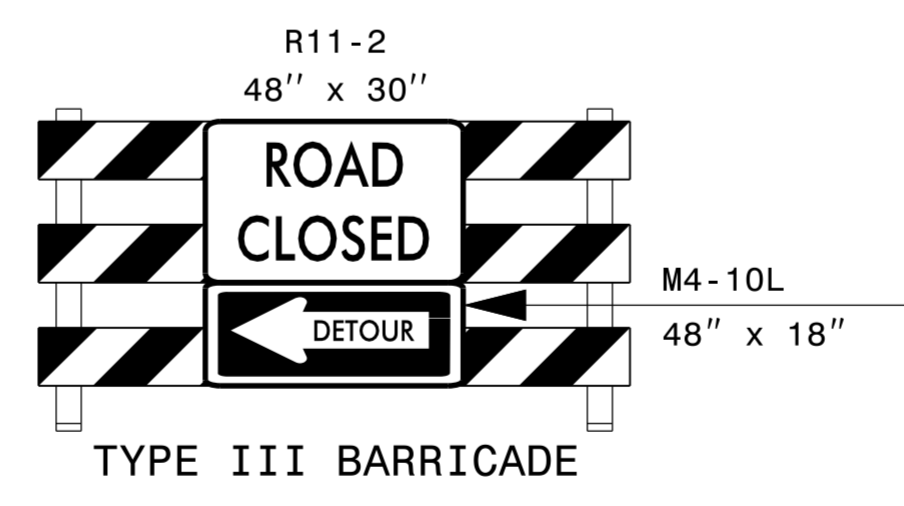
CHANGEABLE MESSAGE SIGN



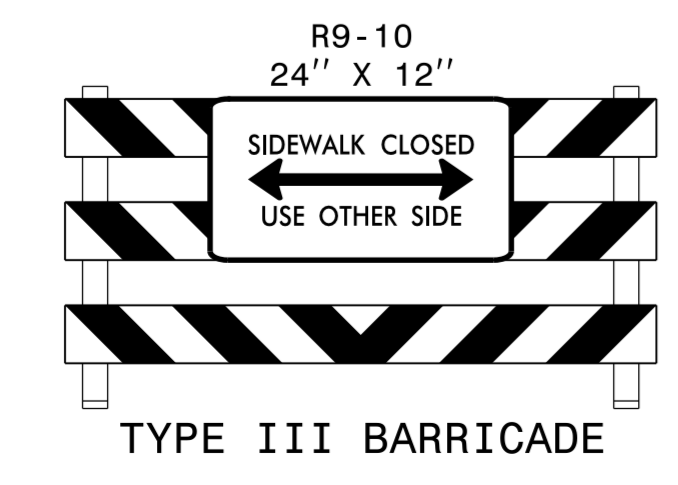
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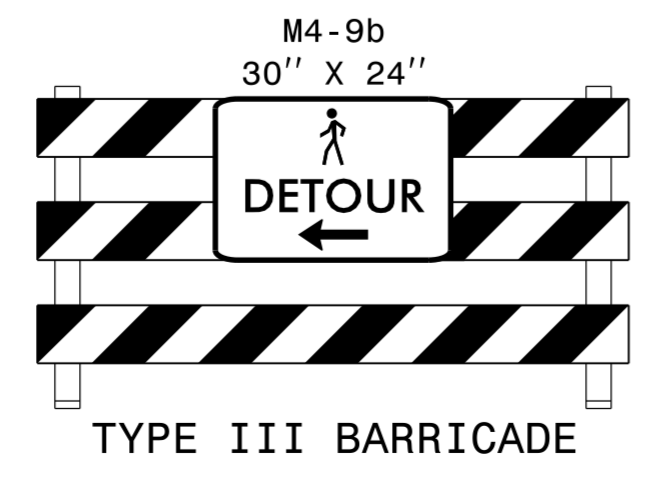
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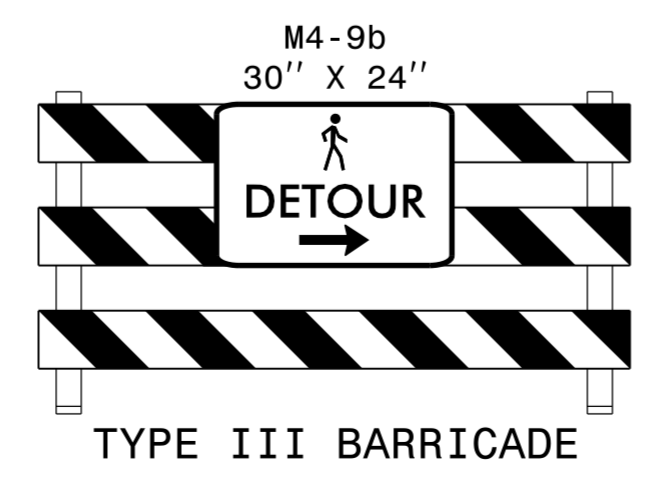
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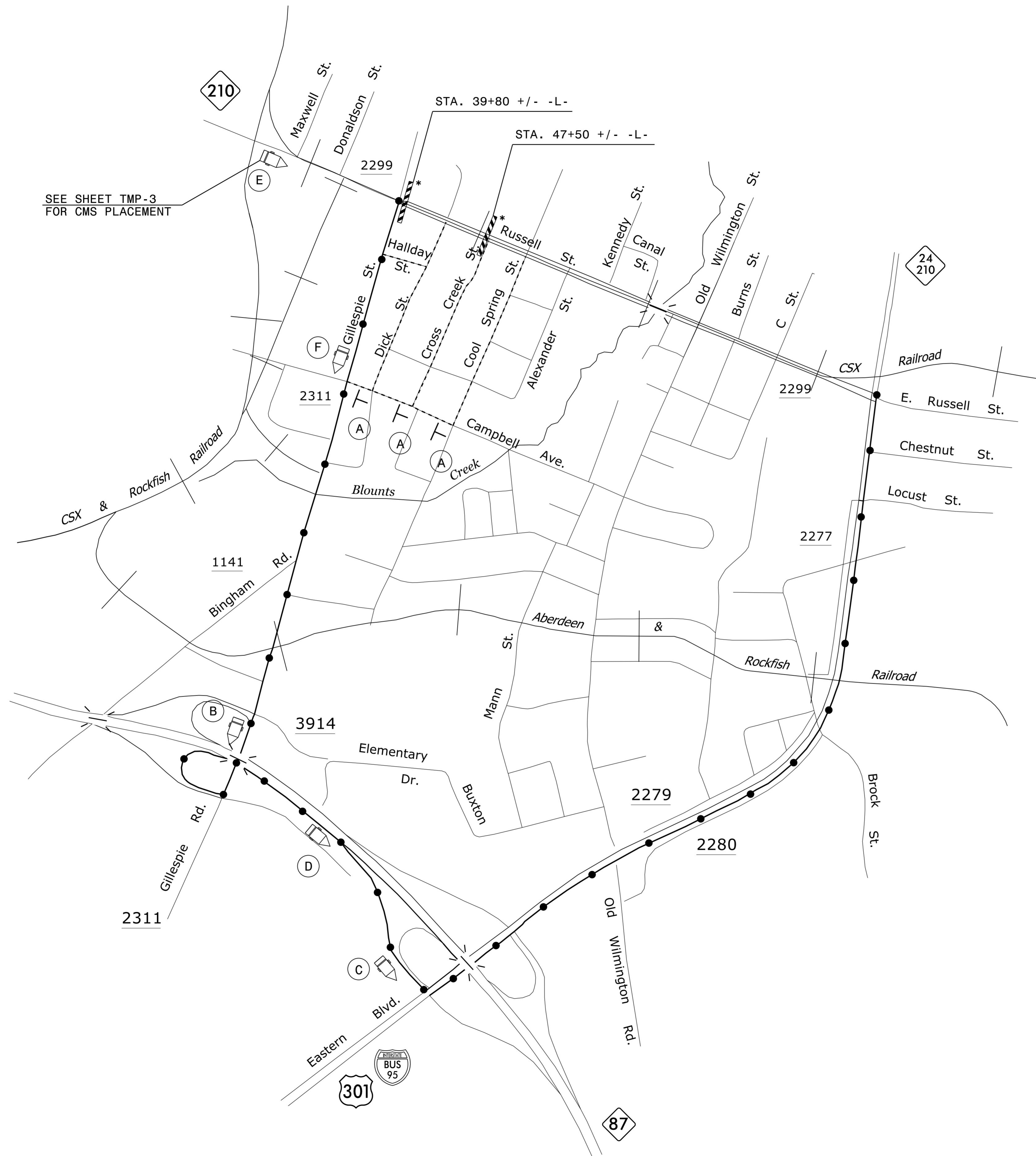
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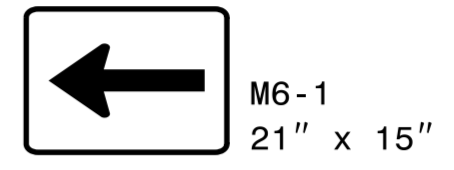
- NOTES:
- FOR EB RUSSELL ST. CLOSURE AND SIGN PLACEMENT, SEE SHEET TMP-3 AND TMP-4.
 - FOR GILLESPIE ST. DETOUR, SEE SHEET TMP-4A.
 - * MAINTAIN RIGHT TURN MOVEMENT AS DIRECTED BY THE ENGINEER.
 - ** COVER SIGNS WHEN GILLESPIE ST. IS CLOSED.

TEMPORARY TRAFFIC CONTROL DETAIL
(GILLESPIE ST. CLOSED)



SEE SHEET TMP-3
FOR CMS PLACEMENT

RUSSELL ST. BUSINESS ACCESS **



MESSAGE NO. 1	MESSAGE NO. 2
RUSSELL STREET DETOUR	NEXT RIGHT

CHANGEABLE MESSAGE SIGN

(A)

(B)

MESSAGE NO. 1	MESSAGE NO. 2
RUSSELL STREET DETOUR	NEXT LEFT

CHANGEABLE MESSAGE SIGN

MESSAGE NO. 1	MESSAGE NO. 2
RUSSELL STREET DETOUR	EXIT NEXT RIGHT

CHANGEABLE MESSAGE SIGN

(C)

(D)

MESSAGE NO. 1	MESSAGE NO. 2
RUSSELL STREET CLOSED	RIGHT AT LIGHT

CHANGEABLE MESSAGE SIGN

MESSAGE NO. 1	MESSAGE NO. 2
RUSSELL STREET BUS.	NEXT LEFT

CHANGEABLE MESSAGE SIGN

(E)

(F)

----- LOCAL TRAFFIC DETOUR FOR EB RUSSELL ST. BUSINESSES

NOTES:
* FOR EB RUSSELL ST. CLOSURE AND SIGN PLACEMENT, SEE SHEET TMP-3.
** SEE SHEET TMP-2 FOR SPECIAL SIGN DESIGN

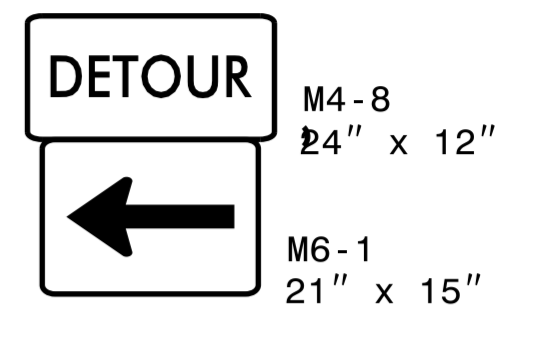
TEMPORARY TRAFFIC CONTROL DETOUR (RUSSELL ST. CLOSURE)

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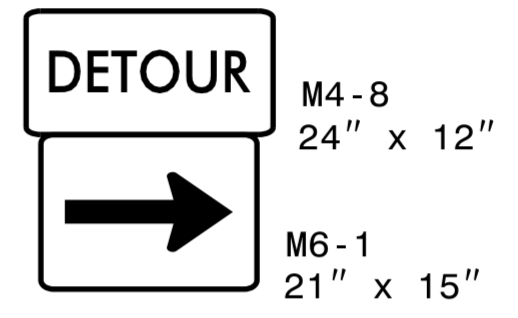


MESSAGE NO. 1	MESSAGE NO. 2
ROAD CLOSED 1000 FT	DETOUR NEXT RIGHT
CHANGEABLE MESSAGE SIGN	

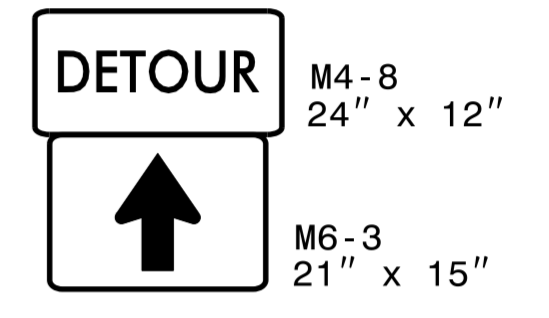
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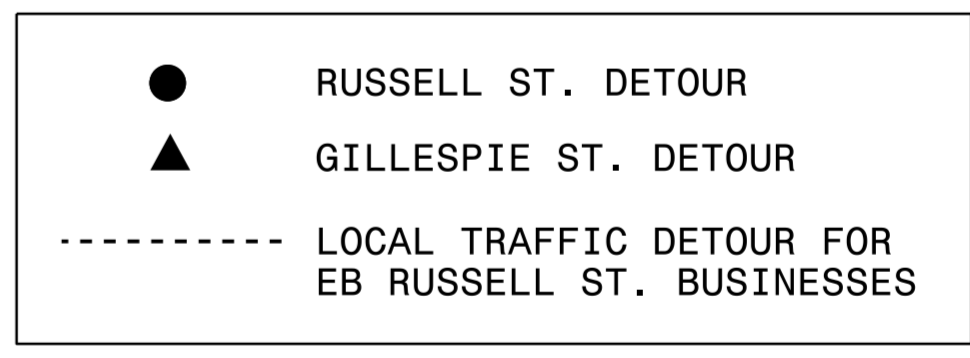
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(C)



(D)



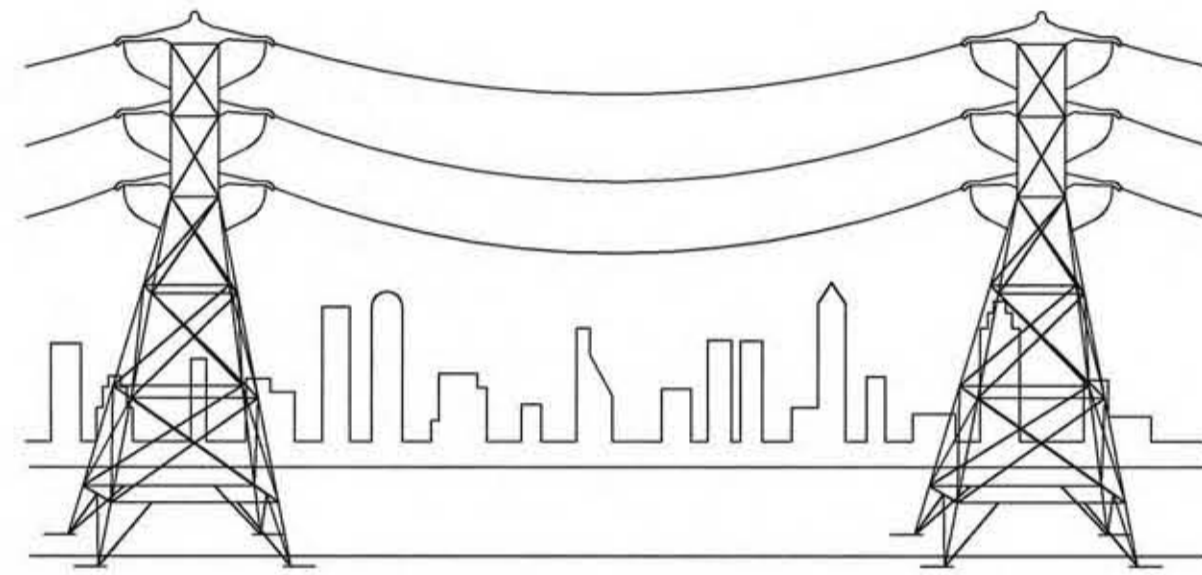
NOTES:
 * FOR EB RUSSELL ST. CLOSURE AND SIGN PLACEMENT, SEE SHEETS TMP-3 THRU TMP-3A.
 ** FOR GILLESPIE ST. WEEKEND CLOSURE AND SIGN PLACEMENT, SEE SHEET TMP-3B.

08-JUL-2015 16:05
 H:\DDC\Projects\36052.103\36052.103.TC.TMP_04a.dgn
 ***\$USERNAME\$\$\$

TEMPORARY TRAFFIC CONTROL DETOUR (GILLESPIE ST. CLOSURE)		
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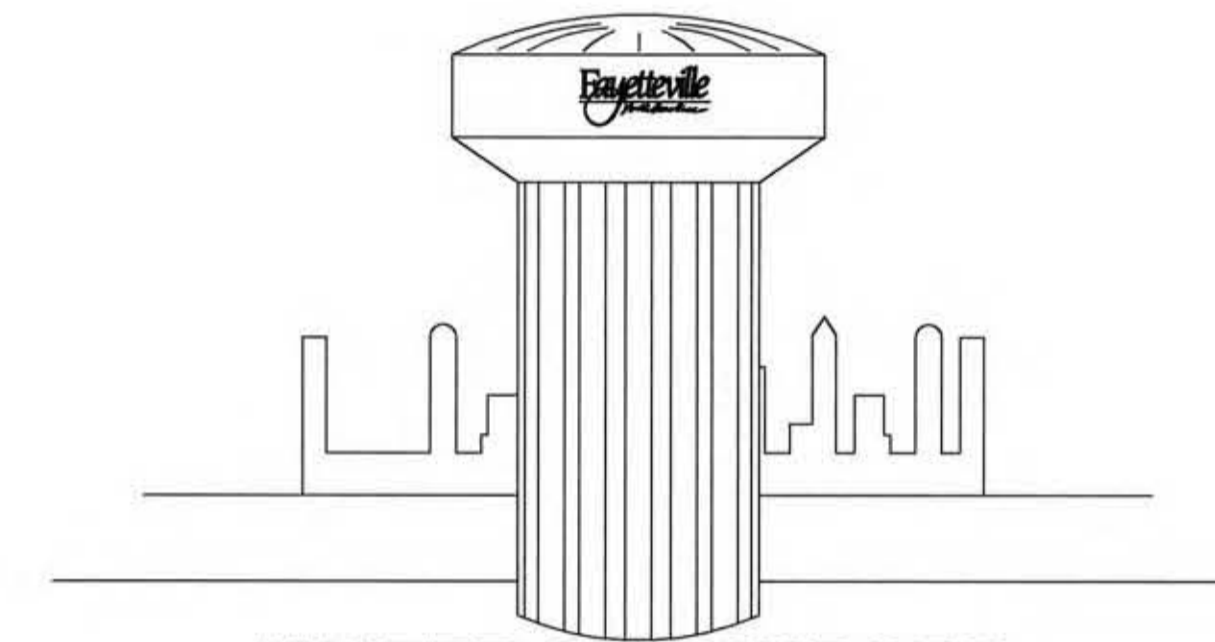
PUBLIC WORKS COMMISSION

FAYETTEVILLE, N.C.



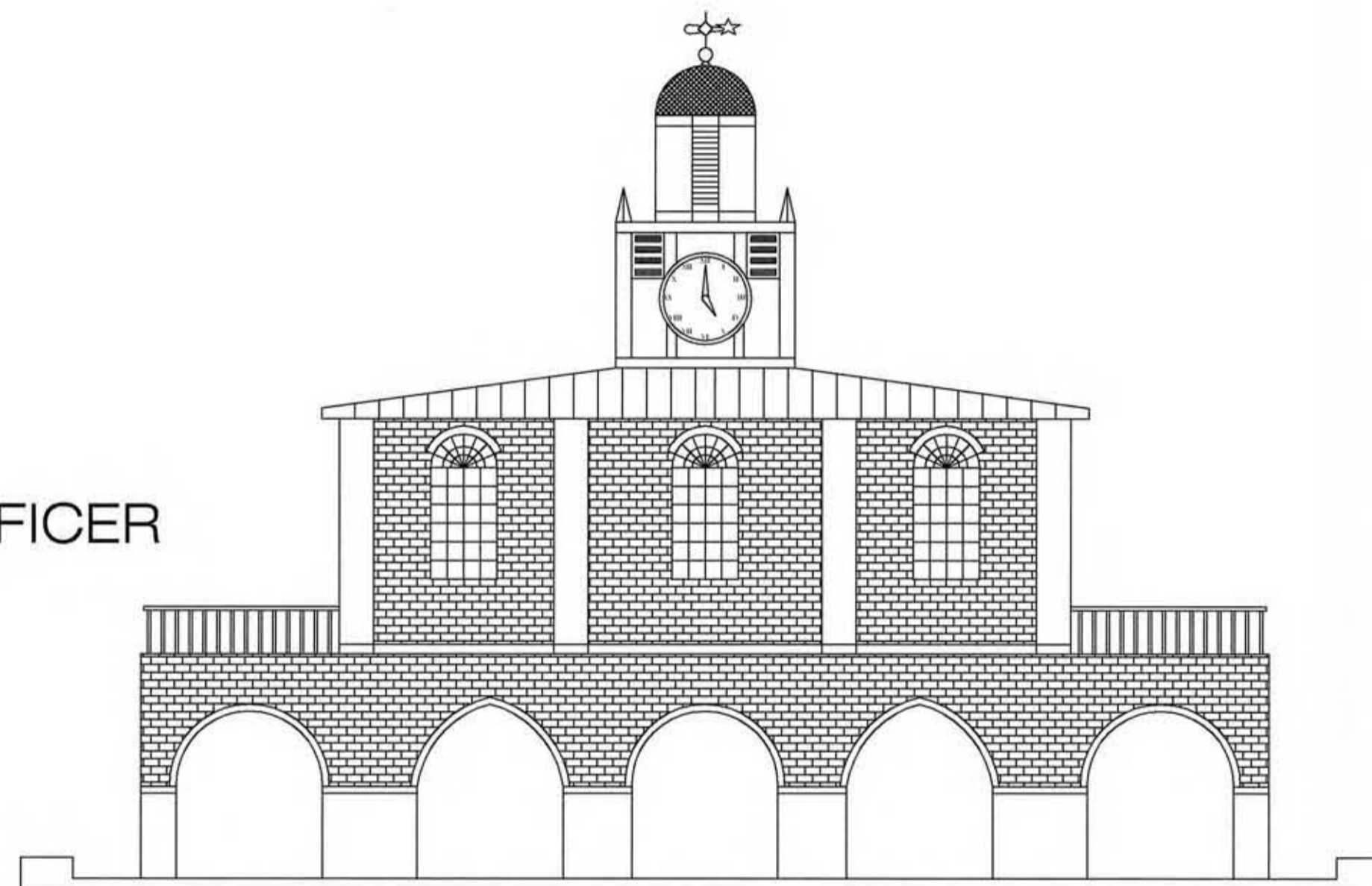
ELECTRICAL

DAVID TREGO - ELEC. SYS. CHIEF OPER. OFFICER



WATER RESOURCES

M.J. NOLAND - W/R CHIEF OPER. OFFICER
JOSEPH E. GLASS - W/R ENGR. MANAGER



PWC COMMISSIONERS

Chairman - **MICHAEL G. LALLIER**
Vice Chairwoman - **LYNNE GREENE**
Secretary - **WADE R. FOWLER, JR.**
Treasurer - **DARSWEIL ROGERS**
Interim General Manager - **STEVE BLANCHARD**

RUSSELL STREET

(GILLESPIE TO EASTERN)

12" WATER MAIN INSTALLATION PHASE I



VICINITY MAP
N.T.S.



Know what's below.
Call before you dig.

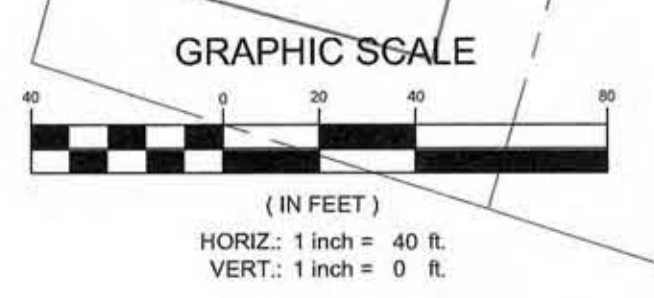
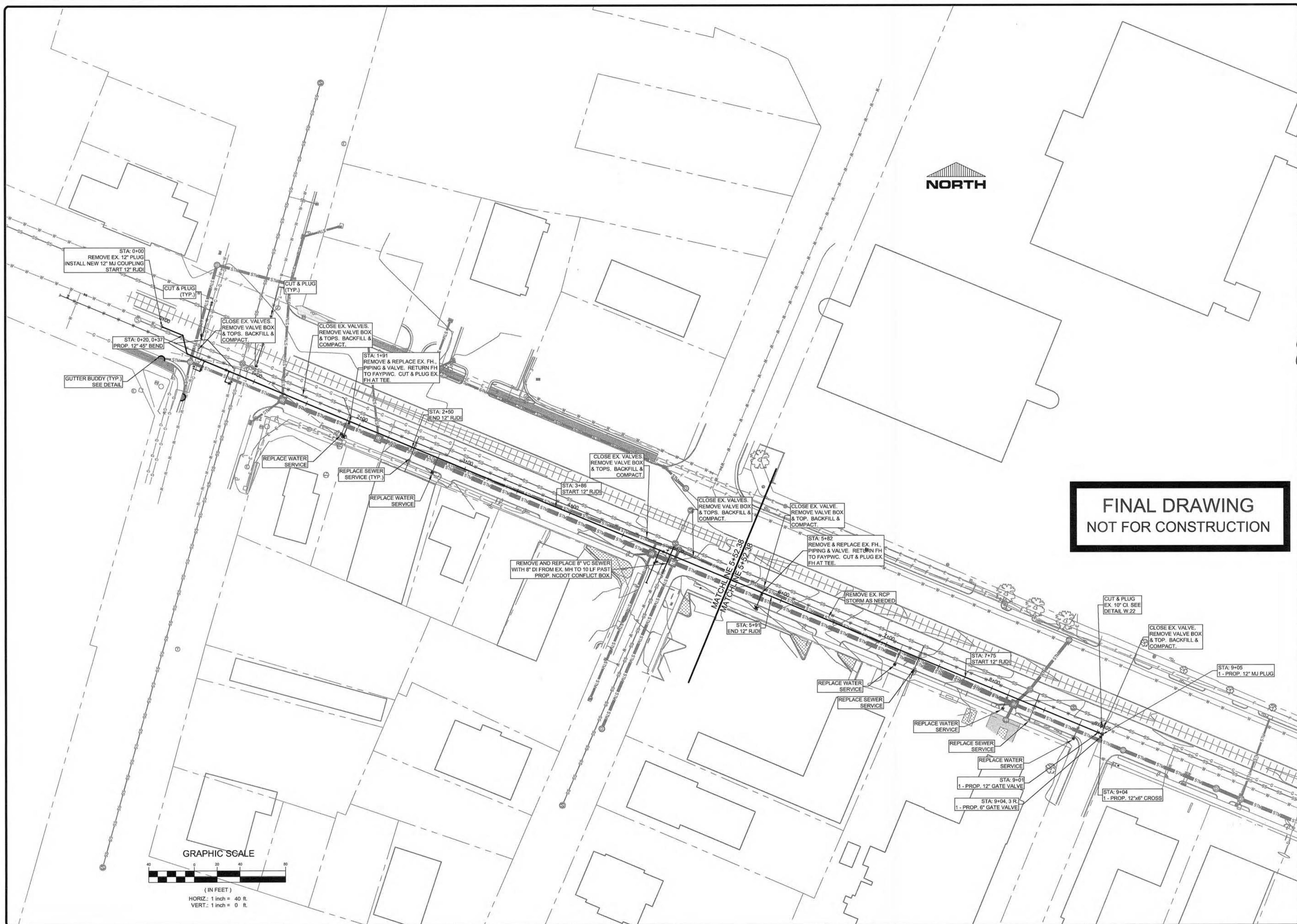
SHEET INDEX

1	PWC COVER SHEET
2	UP (UTILITY PLAN)
3	W1 (PLAN & PROFILE)
4	W2 (PLAN & PROFILE)
5	D1 (STANDARD DETAILS)
6	D2 (STANDARD DETAILS)
7	D3 (STANDARD DETAILS)



**FINAL DRAWING
NOT FOR CONSTRUCTION**

M:\PROJECTS\ACTIVE PROJECTS\RUSSELL ST WM REPLACEMENT (GILLESPIE TO 301).PH.1 UP.dwg, 7/7/2015 3:04:49 PM



**FINAL DRAWING
NOT FOR CONSTRUCTION**

DATE	REVISIONS

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 DRAWN BY: C/JW
 CHECKED BY:
 HOR: 1"=40'
 VERT: 1"=0'

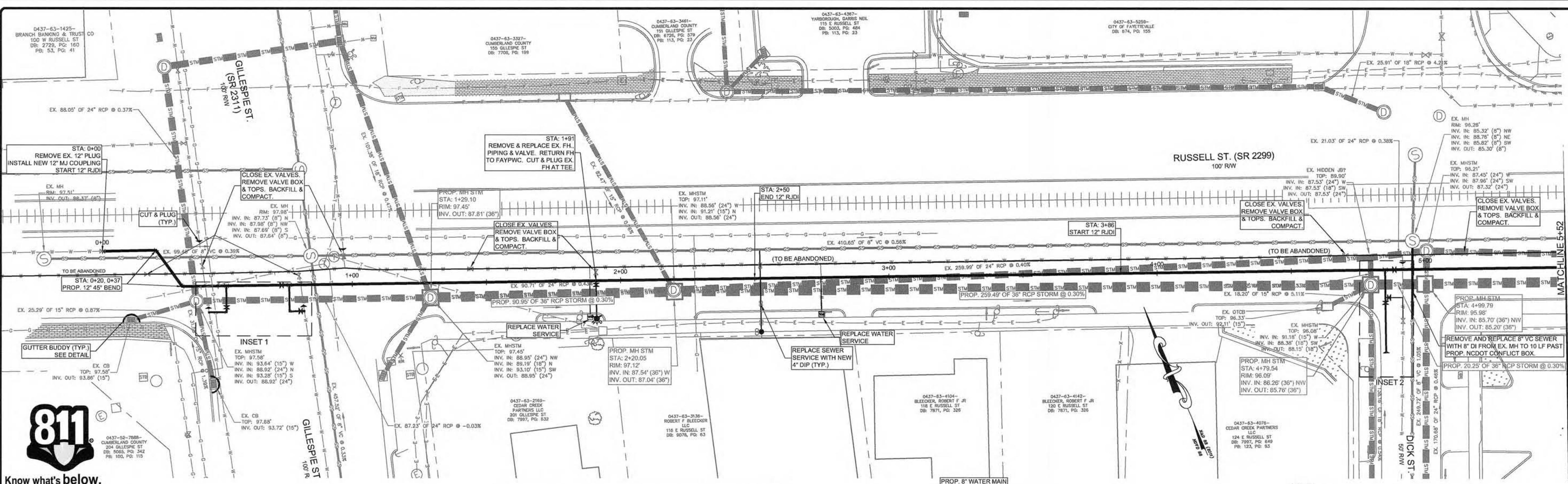
UP
 2 OF 7



RUSSELL STREET
 (GILLESPIE TO EASTERN)
 12" WATER MAIN INSTALLATION PHASE I

PUBLIC WORKS COMMISSION
EMC
WATER RESOURCES ENGINEERING
 P.O. Box 1089 Fayetteville, NC 28302
 939 Old Wilmington Road, Fayetteville, NC 28301

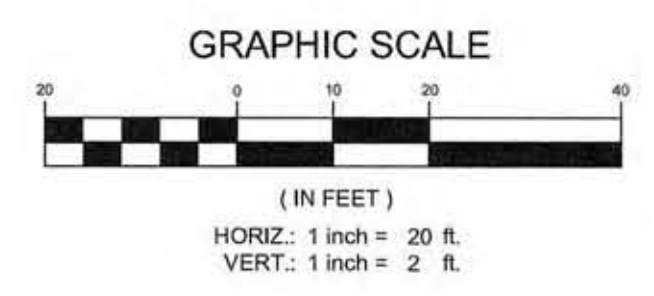
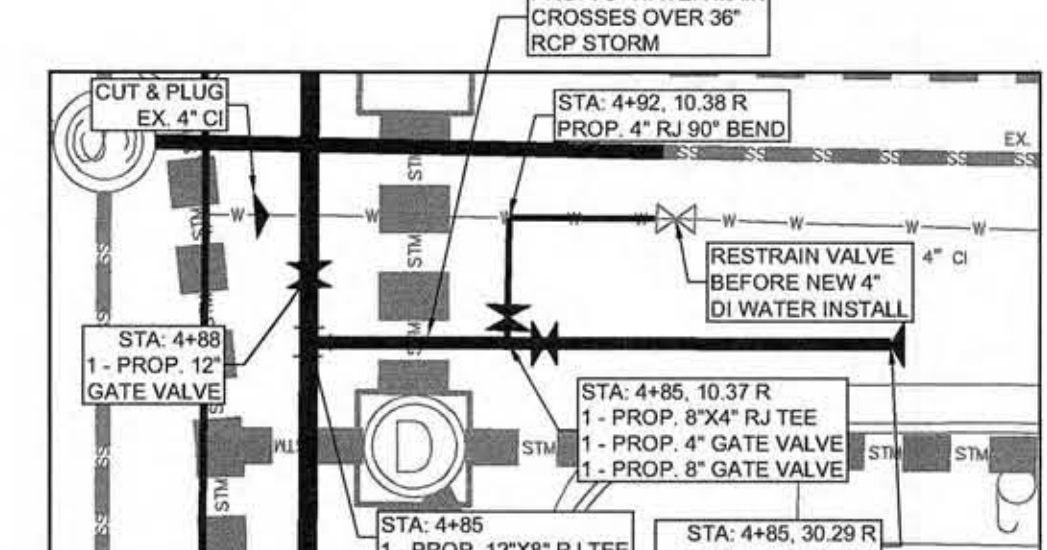
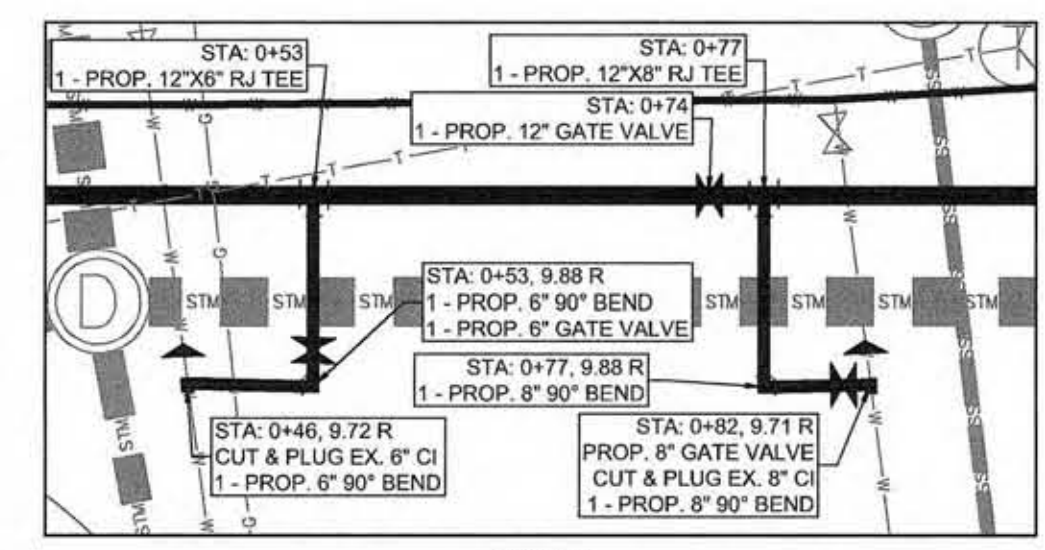
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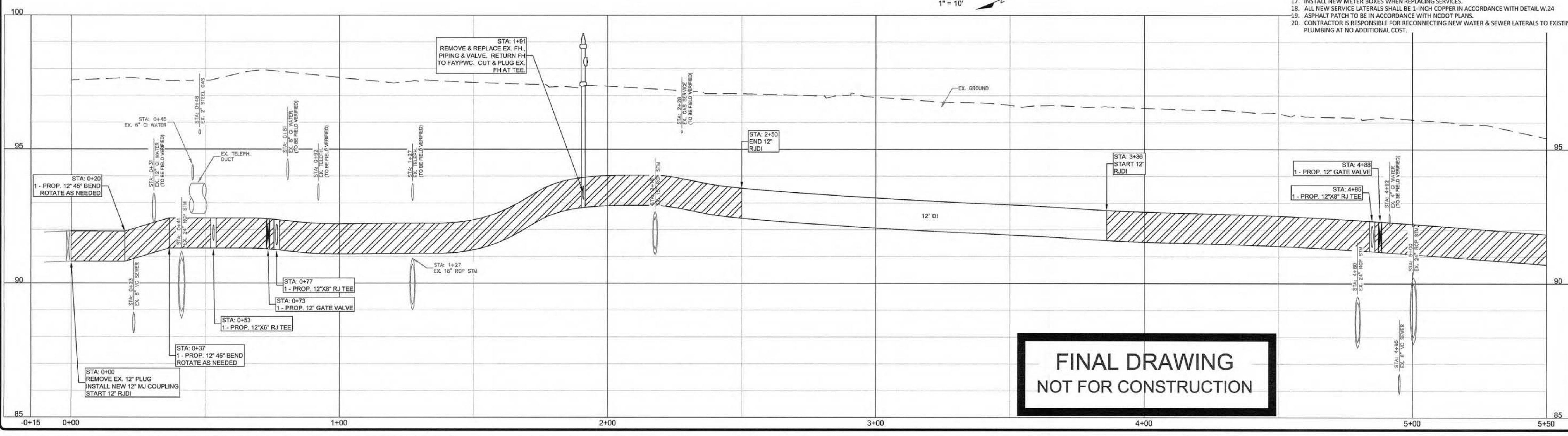
Know what's below.
Call before you dig.

LEGEND

PROPERTY LINE	DITCH	POWER & LIGHT POLE/GUY WIRE
EDGE OF PAVEMENT	EX-PROP. GATE VALVE	EX-PROP. WATER METER
BACK OF CURB	AIR RELEASE VALVE	EX-PROP. FIRE HYDRANT
STORM PIPE	CATCH BASIN/ODOR INLET	UTILITY PEDESTALS
EX. WATER MAIN	EX-PROP. SSMH	EX-PROP. CLEAN OUT
EX. SS MAIN	EX-PROP. STORM MH	EX-PROP. UTILITY MH
PROP. SS MAIN	EX-PROP. UTILITY MH	GAS VALVE
PROP. WATER MAIN	EX-PROP. PLUG	EX-PROP. BLOW-OFF
EASEMENT		
FENCE		
WOOD FENCE		
EX. UTIL. LINES		
TREELINE		



- NOTES:**
1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH PWC STANDARDS.
 2. FIELD VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 3. COORDINATE AND COMPLY WITH ALL OF THE TRAFFIC CONTROL REQUIREMENTS OF THE CITY OF FAYETTEVILLE AND/OR N.C.D.O.T.
 4. CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENTS' DRIVEWAYS AT ALL TIMES.
 5. CONTRACTOR TO INSTALL ALL NECESSARY EROSION CONTROL DEVICES IN ORDER TO PREVENT ANY SEDIMENT FROM ENTERING STORM DRAINS, DITCHES, ETC. NO SEPARATE PAYMENT.
 6. ALL NON-PAVED AREAS SHALL BE REPLACED WITH SOD.
 7. SAWCUT AND PATCH ALL ASPHALT AND CONCRETE DISTURBED BY CONSTRUCTION.
 8. CONTRACTOR SHALL REPAIR OR REPLACE DRIVES DISTURBED BY CONSTRUCTION TO EXISTING OR BETTER CONDITIONS.
 9. ALL EXISTING FIRE HYDRANTS REMOVED SHALL BE RETURNED TO PWC FOR DISPOSAL.
 10. CONTRACTOR SHALL NOTIFY PWC 48-HOURS IN ADVANCE OF CONSTRUCTION STAKING.
 11. CONTRACTOR SHALL PROVIDE A MINIMUM OF 48-HOURS NOTICE FOR ALL WATER OUTAGES.
 12. ALL WATER MAINS, LATERALS AND APPURTENANCES SHALL BE INSTALLED, TESTED, AND DISINFECTED IN ACCORDANCE WITH PWC STANDARDS. NEW MAIN SHALL BE TESTED AND DISINFECTED PRIOR TO PLACING IN SERVICE.
 13. CLOSE EX. VALVES ON ABANDONED WATER MAINS. REMOVE EX. VALVE BOX TOPS, BACKFILL AND COMPACT.
 14. ABANDON EXISTING WATER MAINS BY GROUT FILL ONCE SERVICES HAVE BEEN TRANSFERRED TO THE NEW MAIN.
 15. ABANDON EXISTING WATER SERVICES BY PLUGGING THE LATERAL AT THE MAIN AND TURNING OFF THE CORPORATION.
 16. INSTALL NEW METER BOXES WHEN REPLACING SERVICES.
 17. ALL NEW SERVICE LATERALS SHALL BE 1-INCH COPPER IN ACCORDANCE WITH DETAIL W.24.
 18. ASPHALT PATCH TO BE IN ACCORDANCE WITH NCDOT PLANS.
 19. CONTRACTOR IS RESPONSIBLE FOR RECONNECTING NEW WATER & SEWER LATERALS TO EXISTING PLUMBING AT NO ADDITIONAL COST.



**FINAL DRAWING
NOT FOR CONSTRUCTION**

DATE	5/15/15
SUBMITTALS	
DATE	
DATE	
DATE	

DATE: 5/15/15
 SUBJECT: PWC
 DRAWN BY: CJM
 CHECKED BY: JRM
 SCALE: HOR: 1"=20'
 VERT: 1"=2'

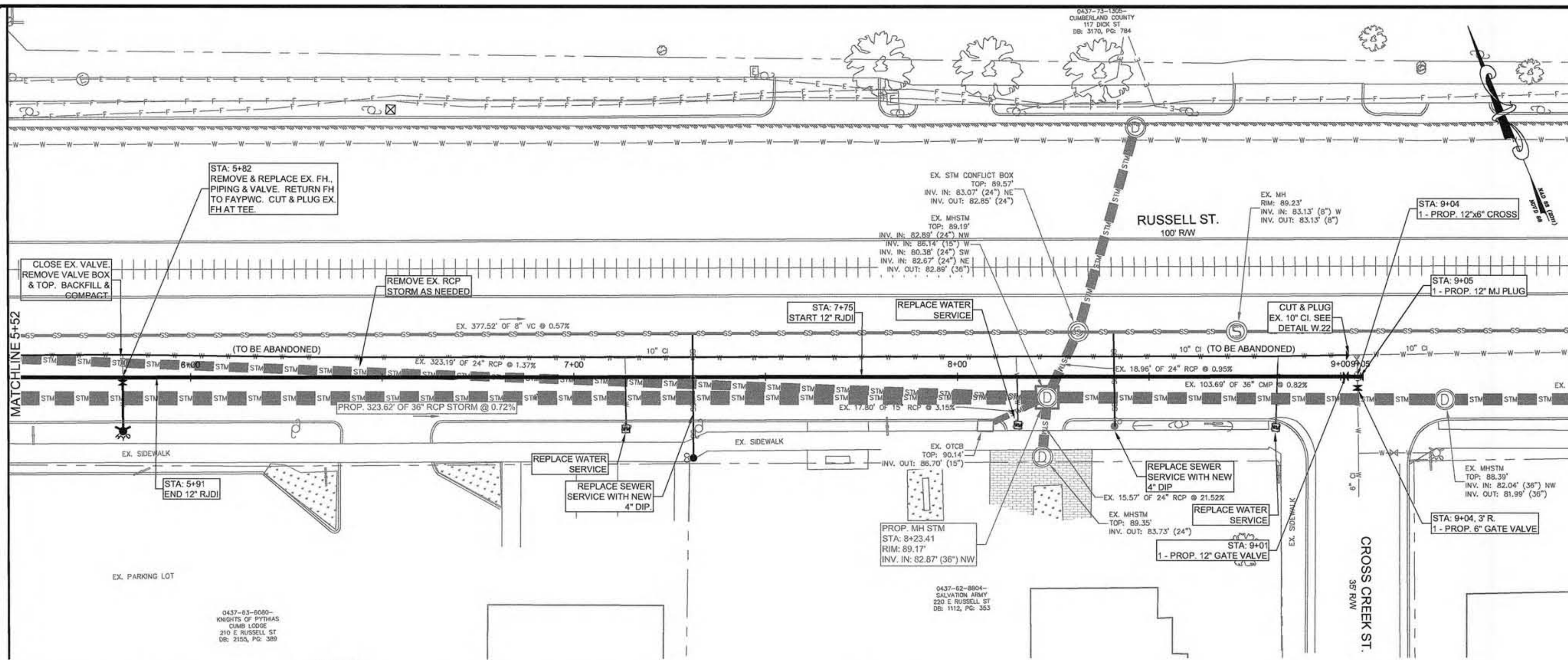
W1
 3 OF 7



RUSSELL STREET PHASE I
 (GILLESPIE TO EASTERN)
 12" WATER MAIN INSTALLATION PHASE I

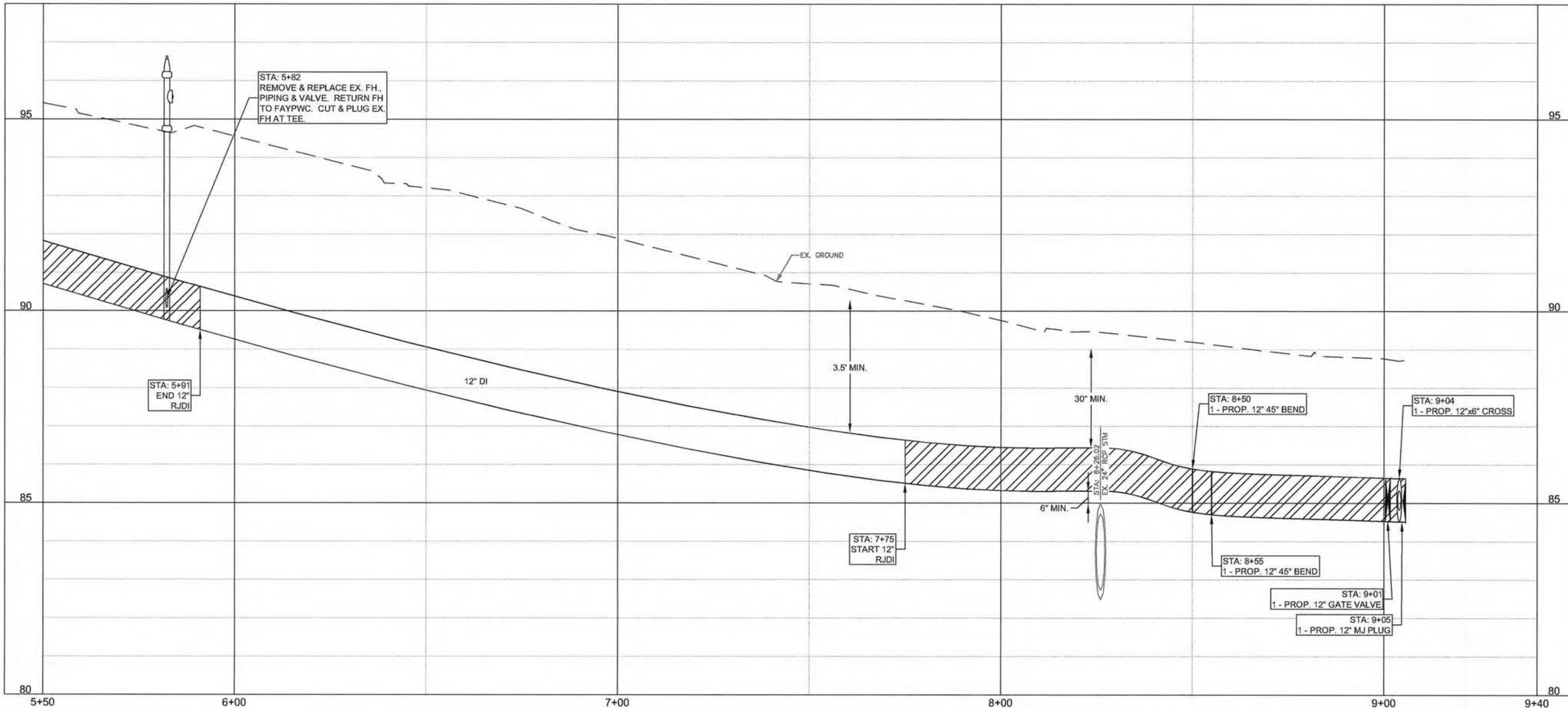
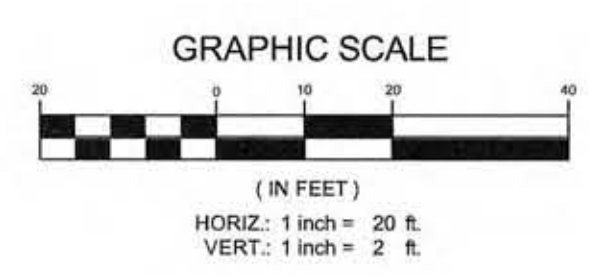
PWC
 PUBLIC WORKS COMMISSION
 OF THE CITY OF FAYETTEVILLE
 WATER RESOURCES ENGINEERING
 P.O. Box 1088, Fayetteville, NC 28302
 955 Old Wilmington Road, Fayetteville, NC 28301

M:\PROJECTS\ACTIVE PROJECTS\RUSSELL ST MM REPLACEMENT (GILLESPIE TO 301)\06-30-2015 REVISED RUSSELL ST MM REPLACE (GILLESPIE TO 301) PH 1 NCDOT.dwg, 7/7/2015, 2:49:54 PM



LEGEND

PROPERTY LINE	DITCH	POWER & LIGHT POLE/GUY WIRE
EDGE OF PAVEMENT	EX. PROP. GATE VALVE	EX. PROP. WATER METER
EDGE OF CURB	AIR RELEASE VALVE	EX. PROP. FIRE HYDRANT
STORM PIPE	CATCH BASIN/DROP INLET	UTILITY PEDESTALS
EX. WATER MAIN	EX. PROP. SSMH	EX. PROP. CLEAN OUT
EX. SS MAIN	EX. PROP. STORM MH	SIGNAL TRAFFIC BOX
PROP. WATER MAIN	EX. PROP. UTILITY MH	MAILBOX
PROP. SS MAIN	GAS VALVE	TREES/SHRUB
EASEMENT	EX. PROP. PLUG	
FENCE	EX. PROP. BLOW-OFF	
WOOD FENCE		
EX. UTIL. LINES		
TREELINE		



- NOTES:**
1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH PWC STANDARDS.
 2. FIELD VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 3. COORDINATE AND COMPLY WITH ALL OF THE TRAFFIC CONTROL REQUIREMENTS OF THE CITY OF FAYETTEVILLE AND/OR N.C.D.O.T.
 4. CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENTS' DRIVEWAYS AT ALL TIMES.
 5. CONTRACTOR TO INSTALL ALL NECESSARY EROSION CONTROL DEVICES IN ORDER TO PREVENT ANY SEDIMENT FROM ENTERING STORM DRAINS, DITCHES, ETC. NO SEPARATE PAYMENT.
 6. ALL NON-PAVED AREAS SHALL BE REPLACED WITH SOG.
 7. SAWCUT AND PATCH ALL ASPHALT AND CONCRETE DISTURBED BY CONSTRUCTION TO EXISTING OR BETTER CONDITIONS.
 8. CONTRACTOR SHALL REPAIR OR REPLACE DRIVES DISTURBED BY CONSTRUCTION TO EXISTING OR BETTER CONDITIONS.
 9. ALL EXISTING FIRE HYDRANTS REMOVED SHALL BE RETURNED TO PWC FOR DISPOSAL.
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 13. CLOSE EX. VALVES ON ABANDONED WATER MAINS. REMOVE EX. VALVE BOX TOPS, BACKFILL AND COMPACT.
 14. ABANDON EXISTING WATER MAINS BY GROUT FILL ONCE SERVICES HAVE BEEN TRANSFERRED TO THE NEW MAIN.
 15. ABANDON EXISTING WATER SERVICES BY PLUGGING THE LATERAL AT THE MAIN AND TURNING OFF THE CORPORATION.
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 17. ALL NEW SERVICE LATERALS SHALL BE 1-INCH COPPER IN ACCORDANCE WITH DETAIL W-24
 18. ASPHALT PATCH TO BE IN ACCORDANCE WITH NCDOT PLANS.
 19. CONTRACTOR IS RESPONSIBLE FOR RECONNECTING NEW WATER & SEWER LATERALS TO EXISTING PLUMBING AT NO ADDITIONAL COST.

FINAL DRAWING
NOT FOR CONSTRUCTION

REVISIONS

DATE	
BY	
REVISIONS	

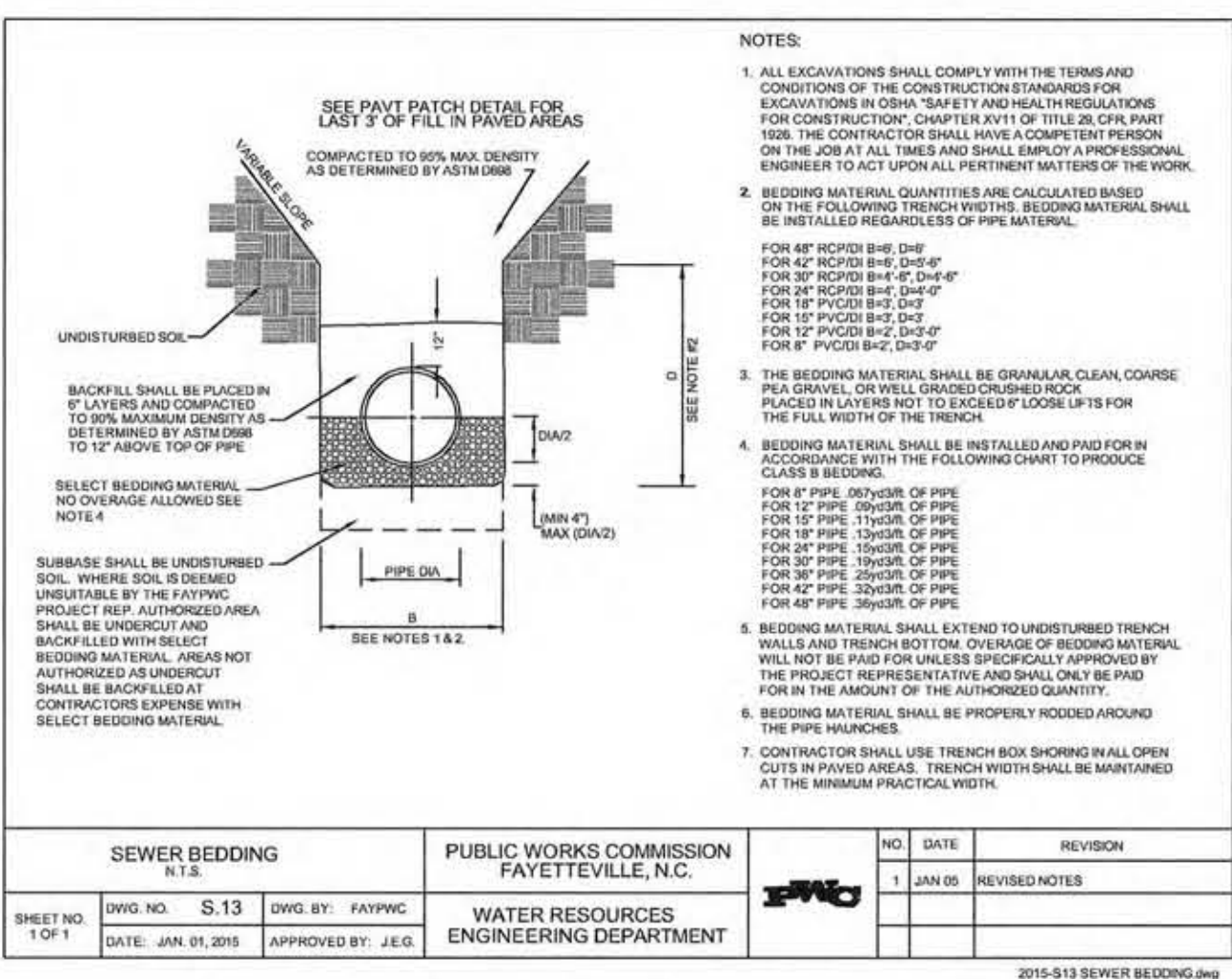
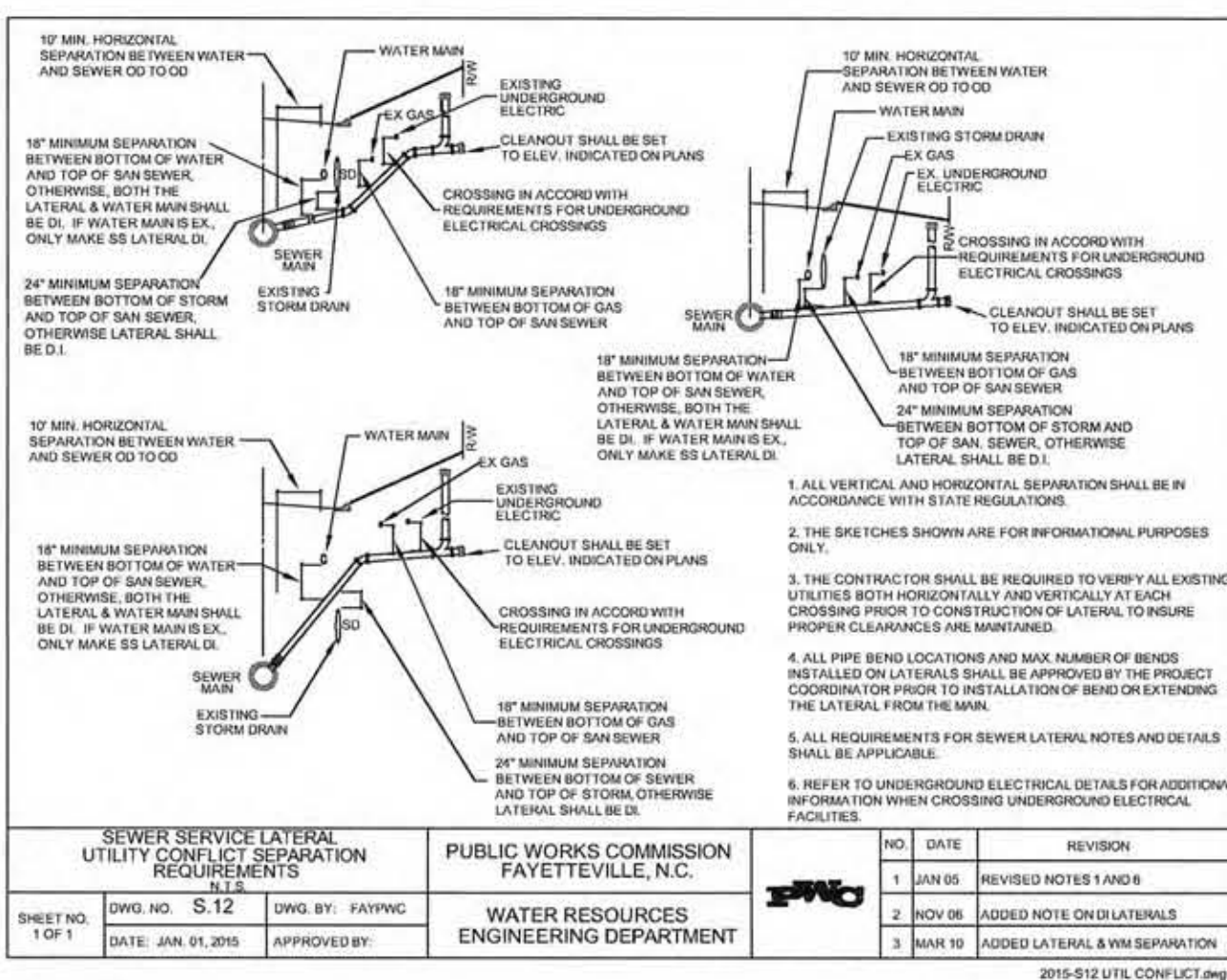
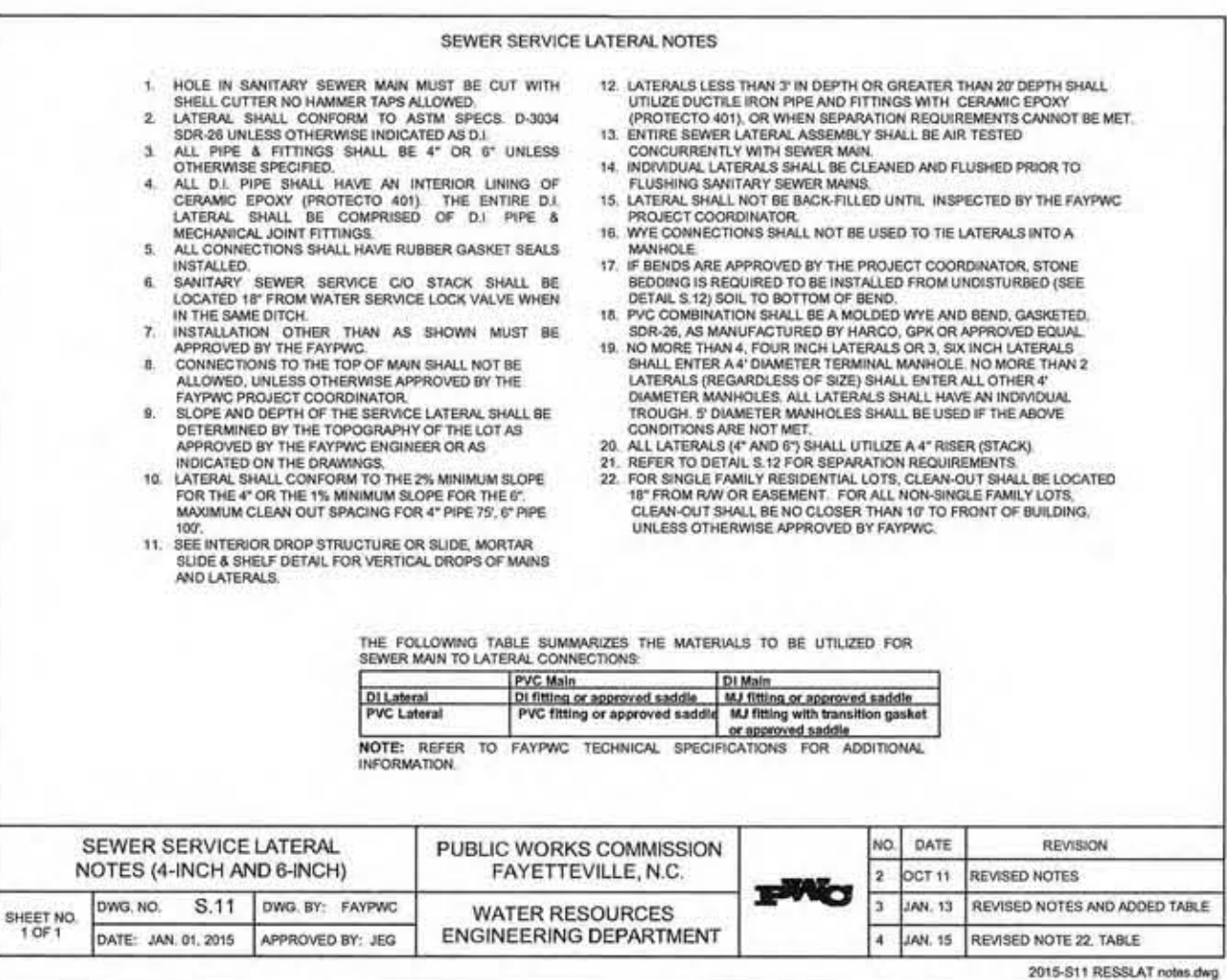
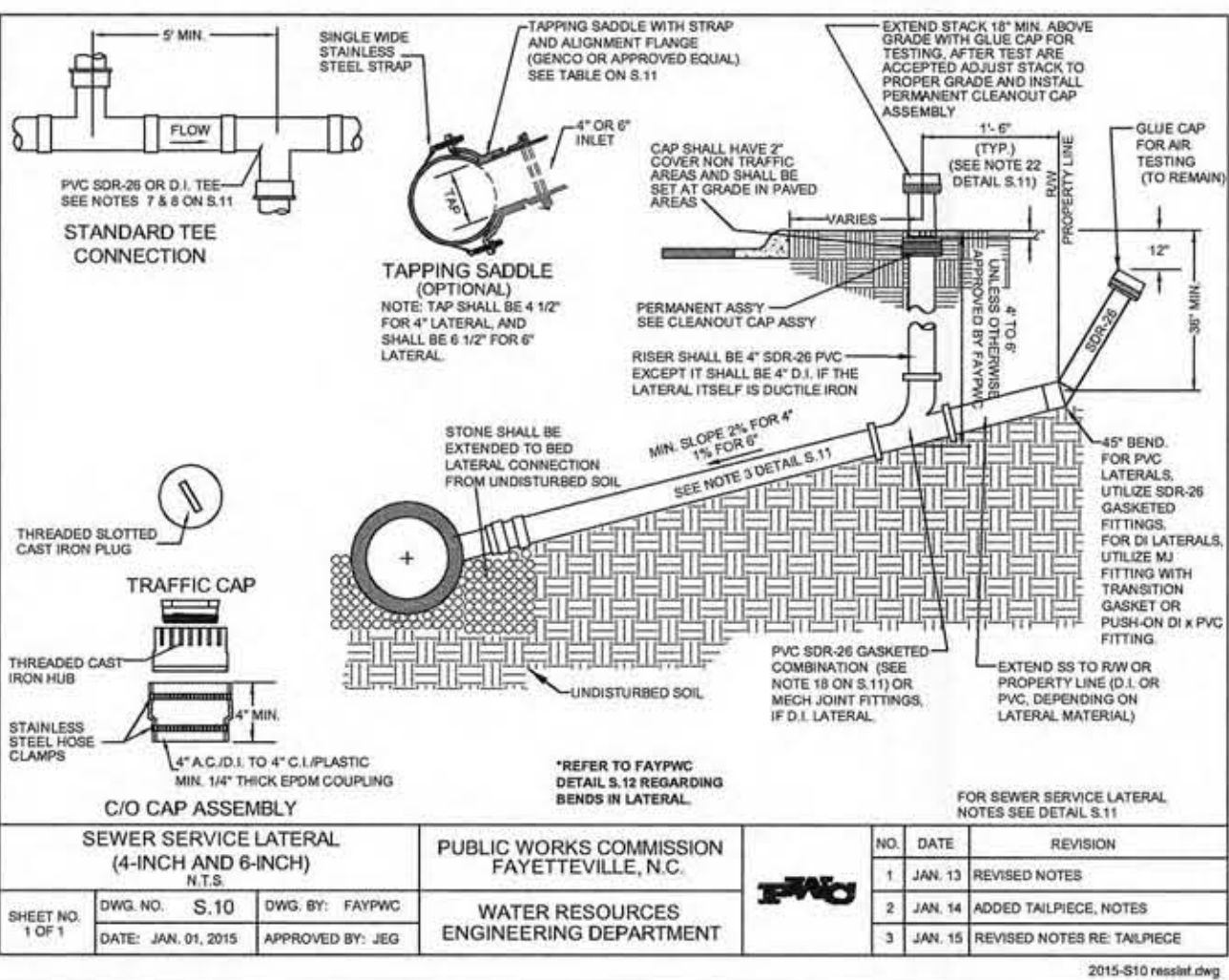
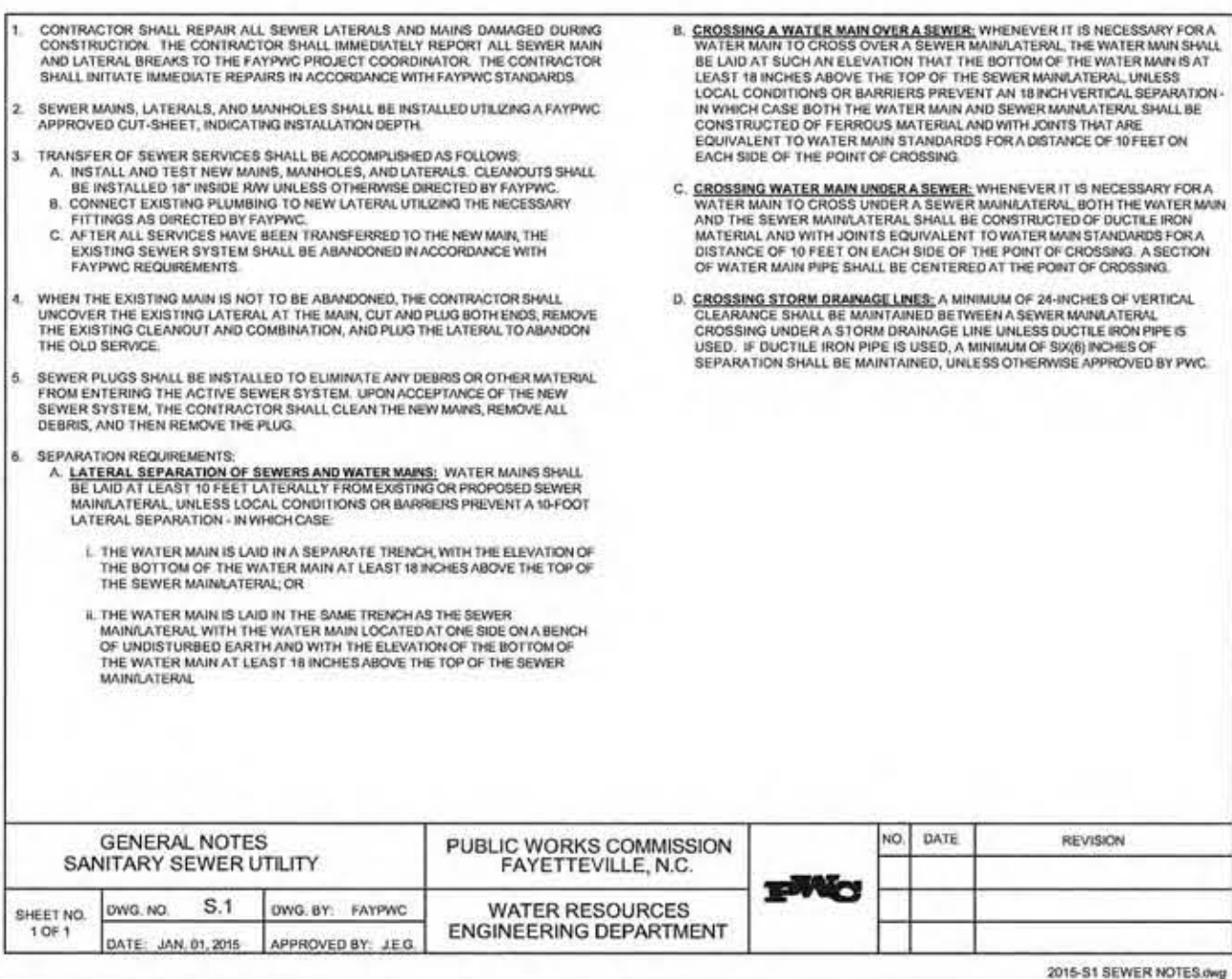
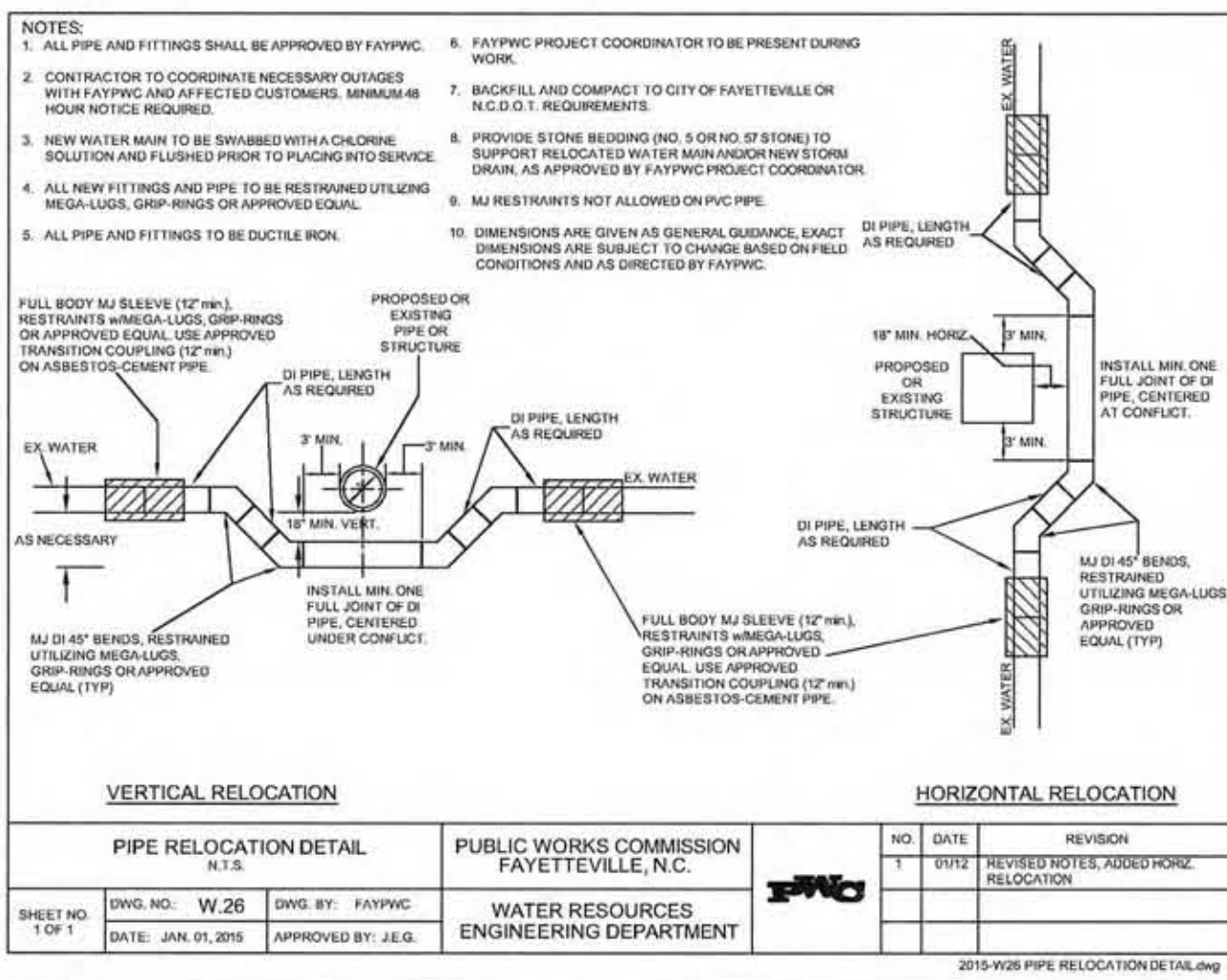
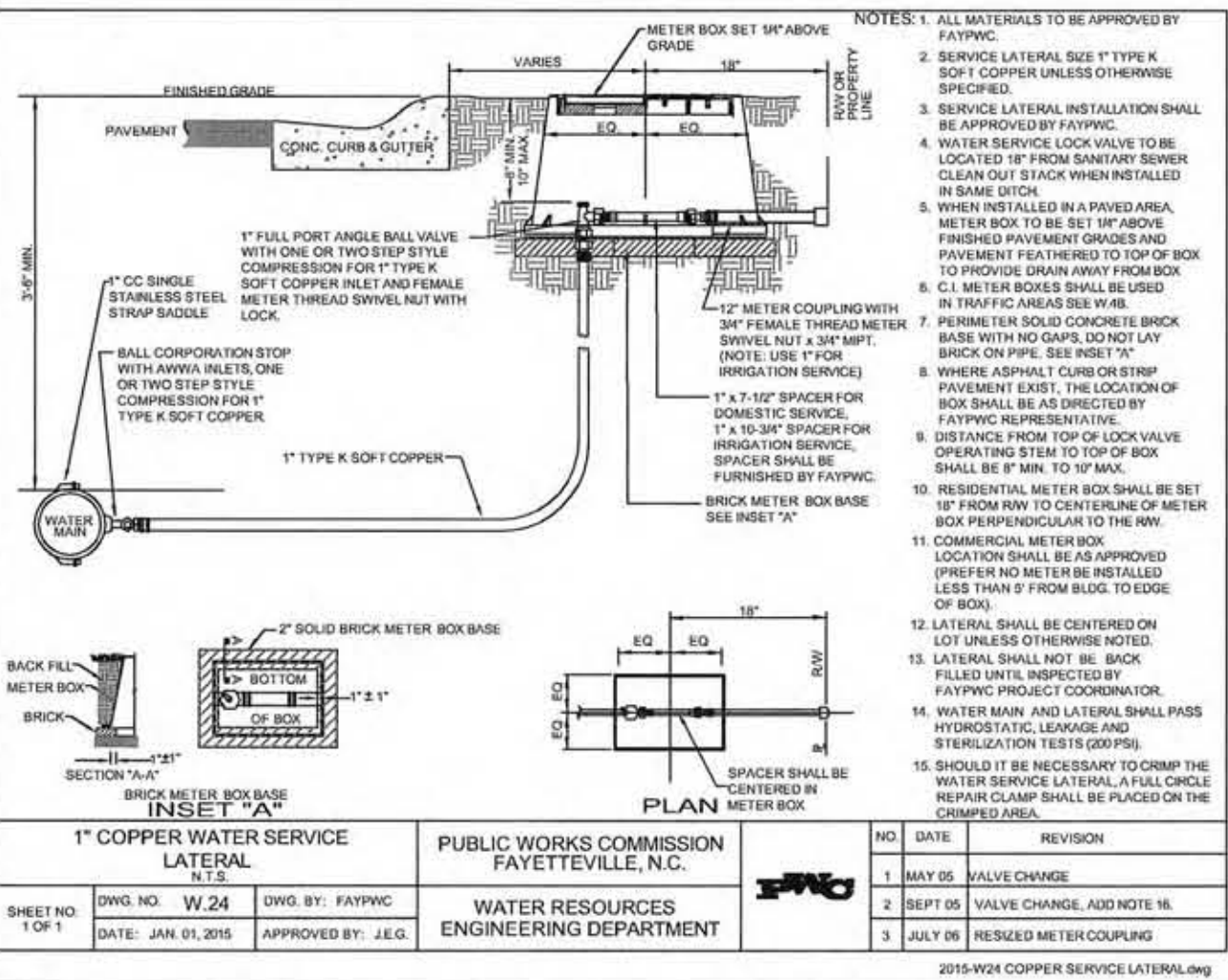
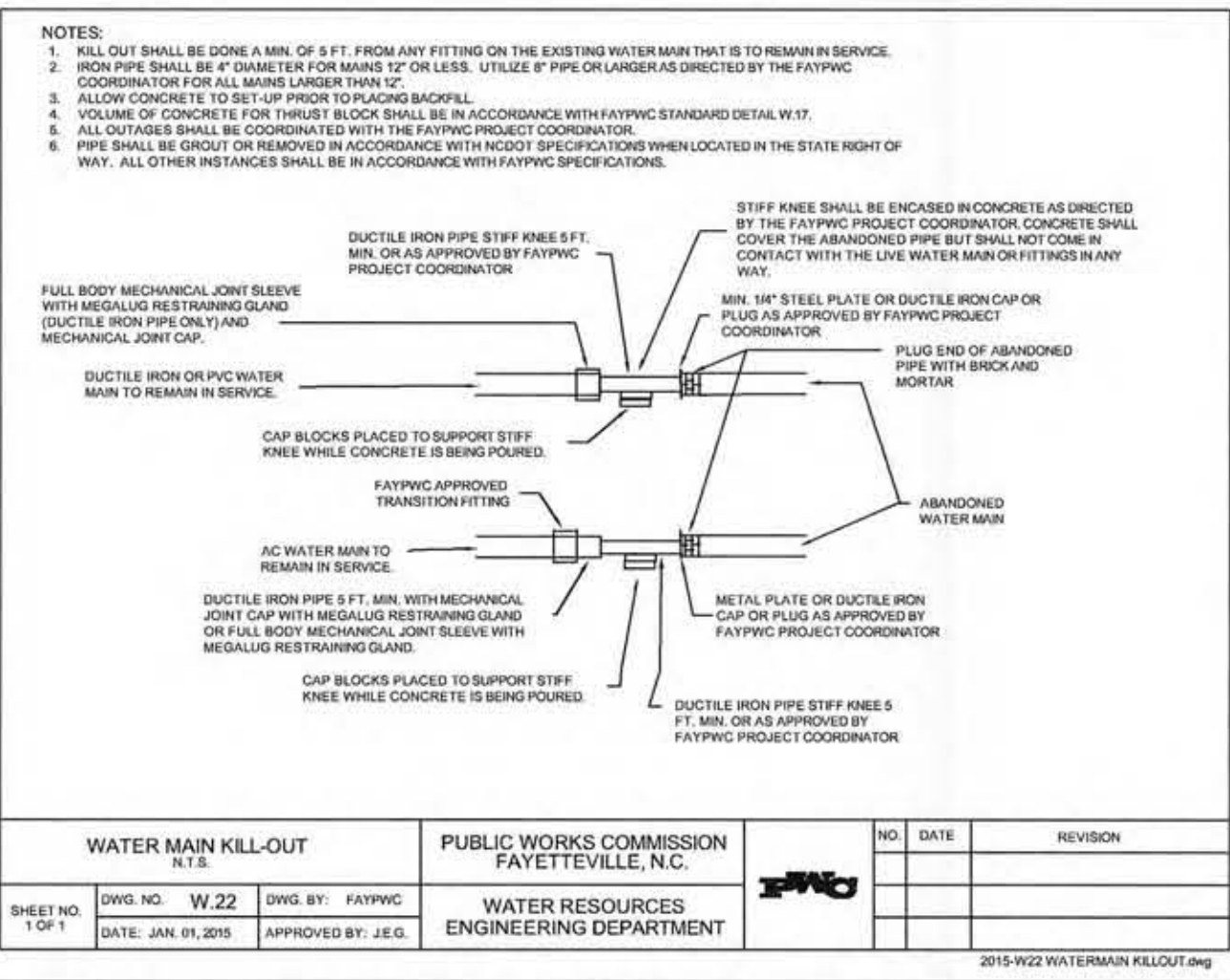
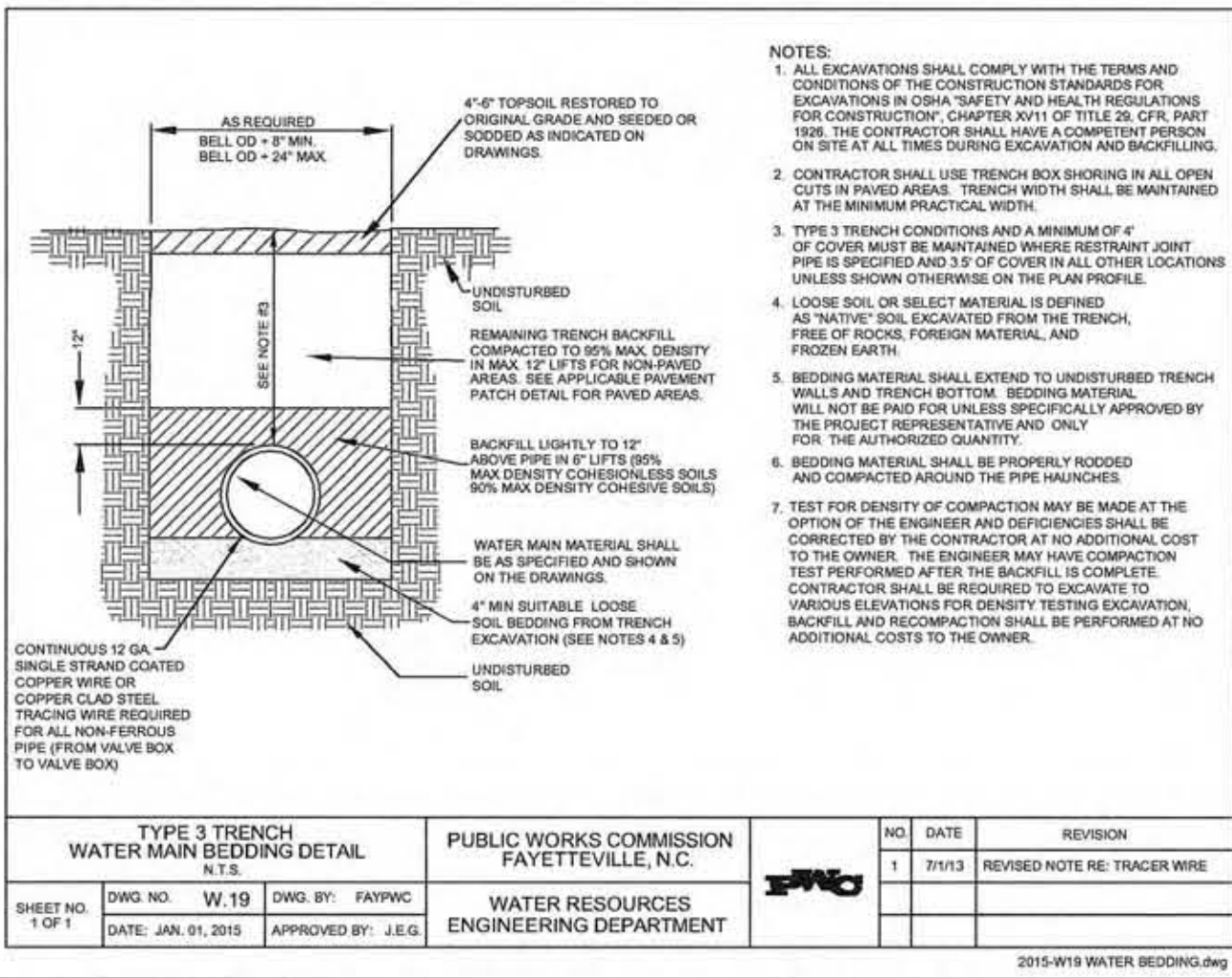
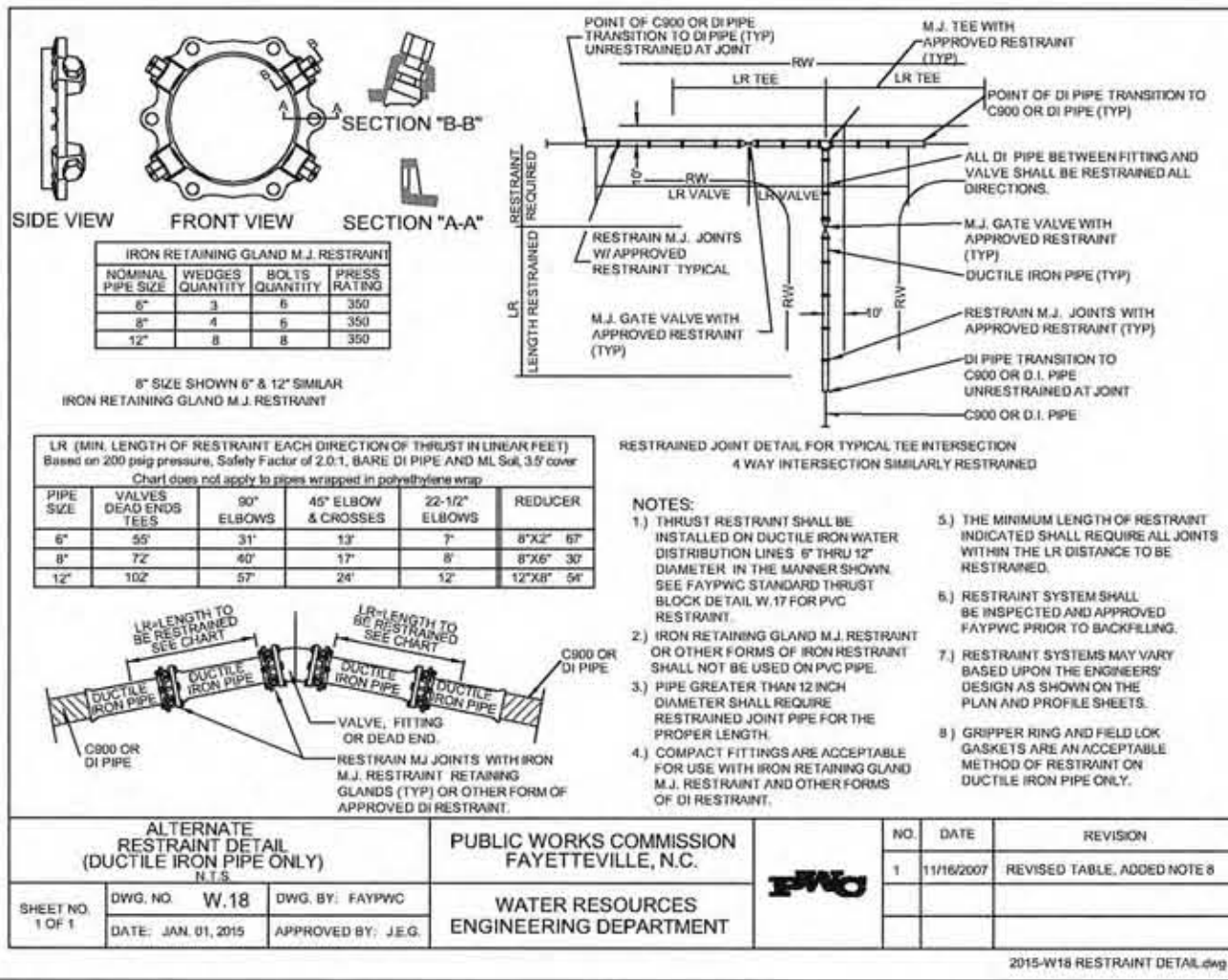
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 DRAWN BY: CJM
 CHECKED BY: JRM
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 VERT: 1"=2'

W2
4 OF 7



RUSSELL STREET
 (GILLESPIE TO EASTERN)
 12" WATER MAIN INSTALLATION PHASE I

PWC
 PUBLIC WORKS COMMISSION
 OF THE CITY OF FAYETTEVILLE
 WATER RESOURCES ENGINEERING
 P.O. Box 10848 Fayetteville, NC 28302
 955 Old Wilmington Road, Fayetteville, NC 28301



**FINAL DRAWING
NOT FOR CONSTRUCTION**

**RUSSELL STREET
(GILLESPIE TO EASTERN)
12" WATER MAIN INSTALLATION PHASE 1**

DATE: 6/1/2015
SUBMIT/ISS BY: PWC
DRAWN BY: C.J.W.
CHECKED BY:
SCALE: HOR. 1" = 10'
VERT. 1" = 12'

**PUBLIC WORKS COMMISSION
OF THE CITY OF FAYETTEVILLE**
WATER RESOURCES ENGINEERING
800 Barlow Road, Fayetteville, NC 28303
955.692.1100 / Fax: 955.692.1101
955.692.1104 / TDD: 955.692.1102

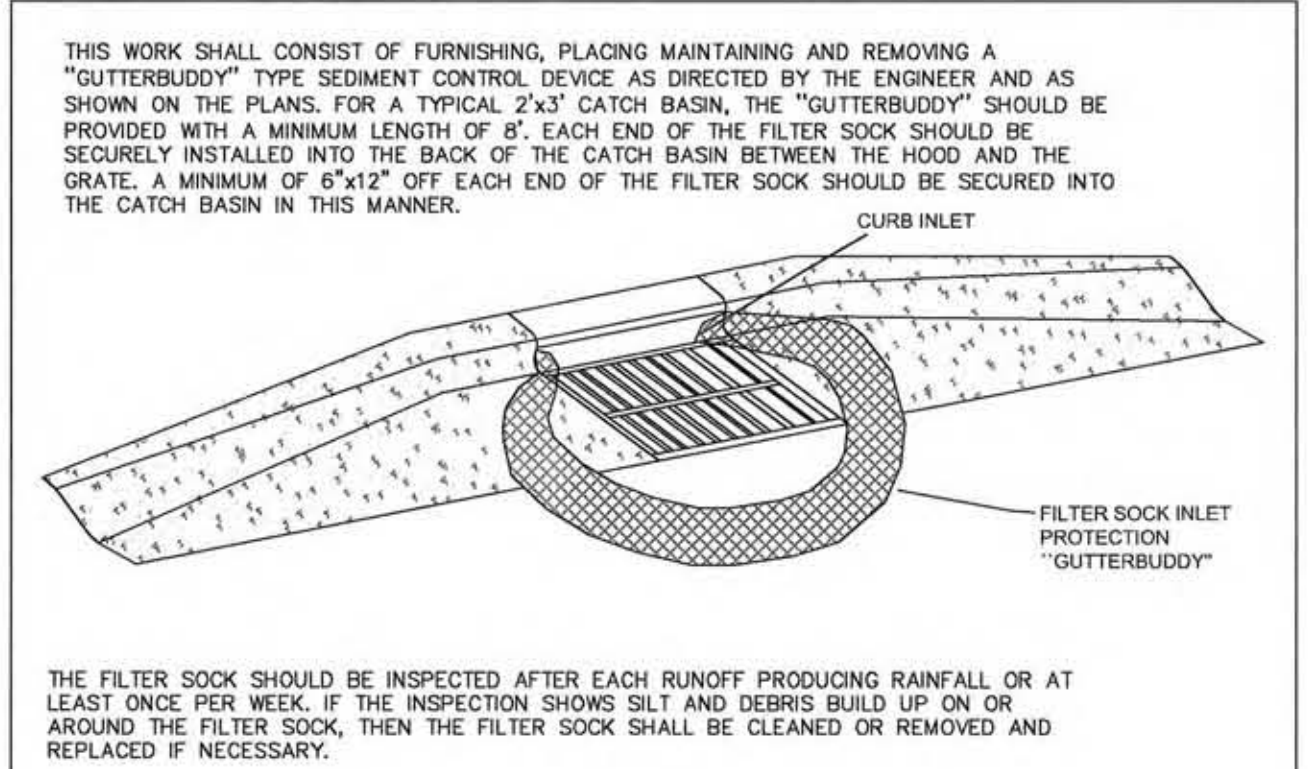
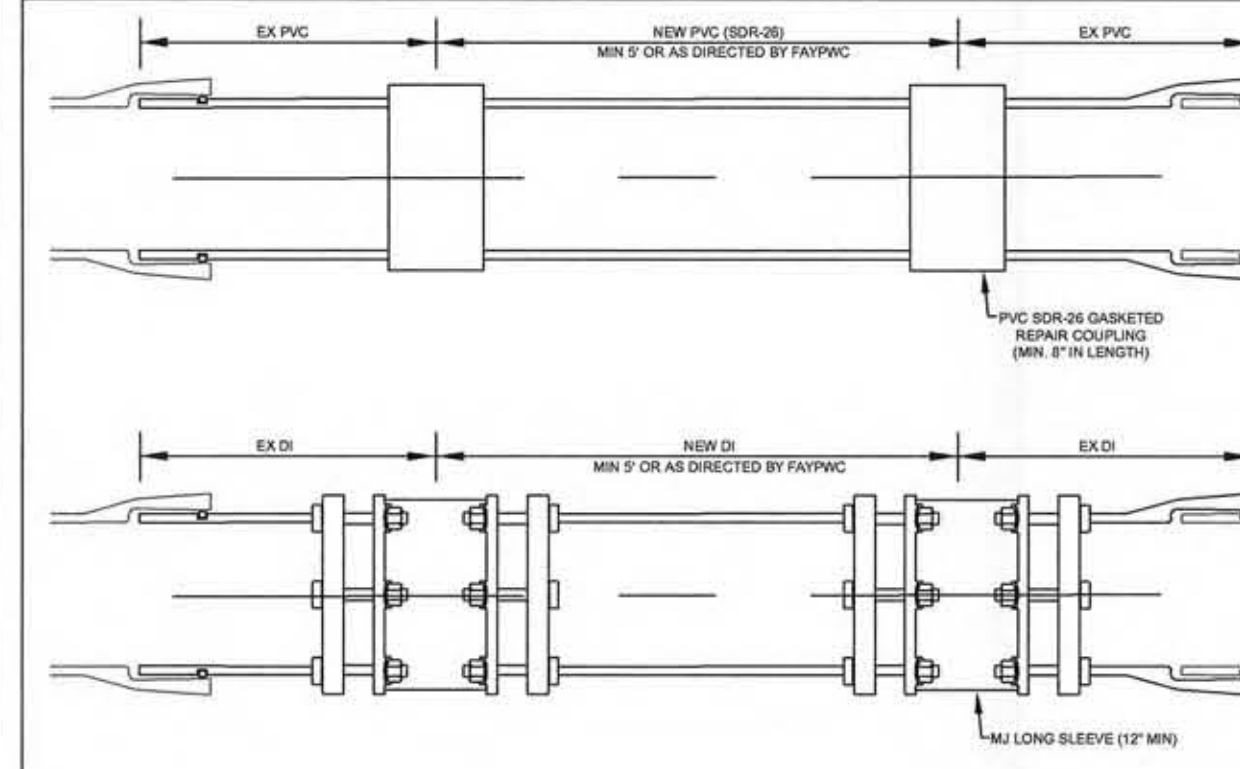
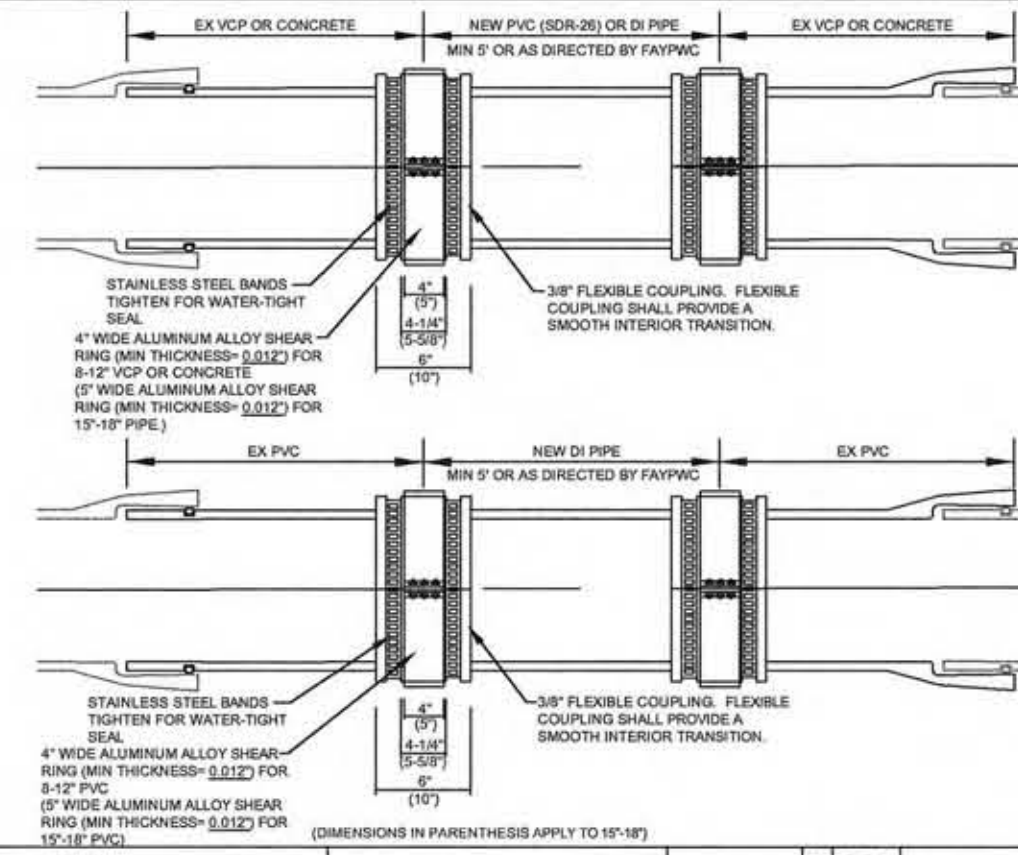
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REVISION: 3

DATE: 6/1/2015
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REVISION: 6
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REVISION: 8
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**PUBLIC WORKS COMMISSION
OF THE CITY OF FAYETTEVILLE**
WATER RESOURCES ENGINEERING

M:\PROJECTS\ACTIVE PROJECTS\RUSSELL ST WM REPLACEMENT (GILLESPIE TO 301)\06-30-2015 REVISED RUSSELL ST WM REPLACE (GILLESPIE TO 301) PH1 1 NCDOT.dwg, 7/7/2015 2:50:13 PM

- NOTES:
1. SANITARY SEWER REPAIR SHALL BE APPROVED BY FAYPWC PRIOR TO MAKING THE REPAIR. IF THE REPAIR IS WITHIN 2' OF AN EXISTING MANHOLE, THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RELAY PIPE TO NEAREST MANHOLE, UNLESS OTHERWISE DIRECTED BY FAYPWC.
 2. ALL MATERIALS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE PUBLIC WORKS COMMISSION.
 3. CONTRACTOR SHALL PROVIDE ALL NECESSARY PUMPS, HEADER PIPE, PUMPING EQUIPMENT, ETC. PRIOR TO BEGINNING CONSTRUCTION. DUPLICATE SERVICE HANDLING PUMPS, PIPING, ETC. SHALL BE ON-SITE AND AVAILABLE FOR IMMEDIATE USE SHOULD PRIMARY PUMP OR FORCE MAIN FAIL. INSURE PUMPS, HEADER PIPING, ETC. ARE PROPERLY SIZED AND OPERATIONAL BEFORE BEGINNING WORK.
 4. PIPE REPAIR SHALL EXHIBIT STRAIGHT HORIZONTAL ALIGNMENT AND INVERT SHALL BE THE SAME AS THE EXISTING PIPE SLOPE. DEFLECTIONS OF HORIZONTAL AND VERTICAL ALIGNMENT ARE NOT ACCEPTABLE.
 5. PIPE SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH FAYPWC STANDARD SPECIFICATIONS.
 6. REPLACEMENT PIPE SHALL BE PROPERLY BEADED IN ACCORDANCE WITH FAYPWC STANDARD DETAIL S.13.
 7. THERE SHALL BE NO MORE THAN 1" SPACE BETWEEN THE EXISTING SEWER MAIN AND THE REPLACEMENT PIPE AT EACH END.
 8. DAMAGED SECTION SHALL BE CUT OUT WITHOUT DAMAGING THE PIPE TO REMAIN.
 9. DI SEWER PIPE AND FITTINGS SHALL HAVE AN INTERIOR COATING OF PROTECTO-401 OR APPROVED EQUAL.
 10. DI PIPE SHALL BE UTILIZED WHEN STATE MINIMUM SEPARATION REQUIREMENTS CANNOT BE MET, OR AS DIRECTED BY FAYPWC.
 11. PIPE REPAIRS ON MATERIALS OTHER THAN SHOWN, SHALL BE AS DIRECTED BY FAYPWC.
 12. THE MINIMUM LENGTH OF REPAIR SHALL BE 5 FEET, UNLESS OTHERWISE DIRECTED BY FAYPWC.



THIS WORK SHALL CONSIST OF FURNISHING, PLACING MAINTAINING AND REMOVING A "GUTTERBUDDY" TYPE SEDIMENT CONTROL DEVICE AS DIRECTED BY THE ENGINEER AND AS SHOWN ON THE PLANS. FOR A TYPICAL 2'x3' CATCH BASIN, THE "GUTTERBUDDY" SHOULD BE PROVIDED WITH A MINIMUM LENGTH OF 8'. EACH END OF THE FILTER SOCK SHOULD BE SECURELY INSTALLED INTO THE BACK OF THE CATCH BASIN BETWEEN THE HOOD AND THE GRATE. A MINIMUM OF 6"x12" OFF EACH END OF THE FILTER SOCK SHOULD BE SECURED INTO THE CATCH BASIN IN THIS MANNER.

THE FILTER SOCK SHOULD BE INSPECTED AFTER EACH RUNOFF PRODUCING RAINFALL OR AT LEAST ONCE PER WEEK. IF THE INSPECTION SHOWS SILT AND DEBRIS BUILD UP ON OR AROUND THE FILTER SOCK, THEN THE FILTER SOCK SHALL BE CLEANED OR REMOVED AND REPLACED IF NECESSARY.

GRAVITY SANITARY SEWER PIPE REPAIR		PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
SHEET NO. 1 OF 3	DWG. NO. S.15 DATE: JAN. 01, 2015	DWG. BY: FAYPWC APPROVED BY: J.E.G.	WATER RESOURCES ENGINEERING DEPARTMENT	1	JAN 05	REV. REPLACEMENT PIPE
				2	JUL 11	REVISED NOTES

GRAVITY SANITARY SEWER PIPE REPAIR		PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
SHEET NO. 2 OF 3	DWG. NO. S.15 DATE: JAN. 01, 2015	DWG. BY: FAYPWC APPROVED BY: J.E.G.	WATER RESOURCES ENGINEERING DEPARTMENT	1	JAN 05	REV. REPLACEMENT PIPE
				2	JUL 11	REVISED NOTES

GRAVITY SANITARY SEWER PIPE REPAIR		PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
SHEET NO. 3 OF 3	DWG. NO. S.15 DATE: JAN. 01, 2015	DWG. BY: FAYPWC APPROVED BY: J.E.G.	WATER RESOURCES ENGINEERING DEPARTMENT	1	JAN 05	REV. REPLACEMENT PIPE
				2	JUL 11	REVISED NOTES, REPAIRS

DATE:	7/7/2015
DESIGNED BY:	WATER RESOURCES ENGINEERING
CHECKED BY:	J.E.G.
SCALE:	HOR: 1" = 10' VERT: 1" = 1'

DATE:	7/7/2015
DESIGNED BY:	WATER RESOURCES ENGINEERING
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SCALE:	HOR: 1" = 10' VERT: 1" = 1'

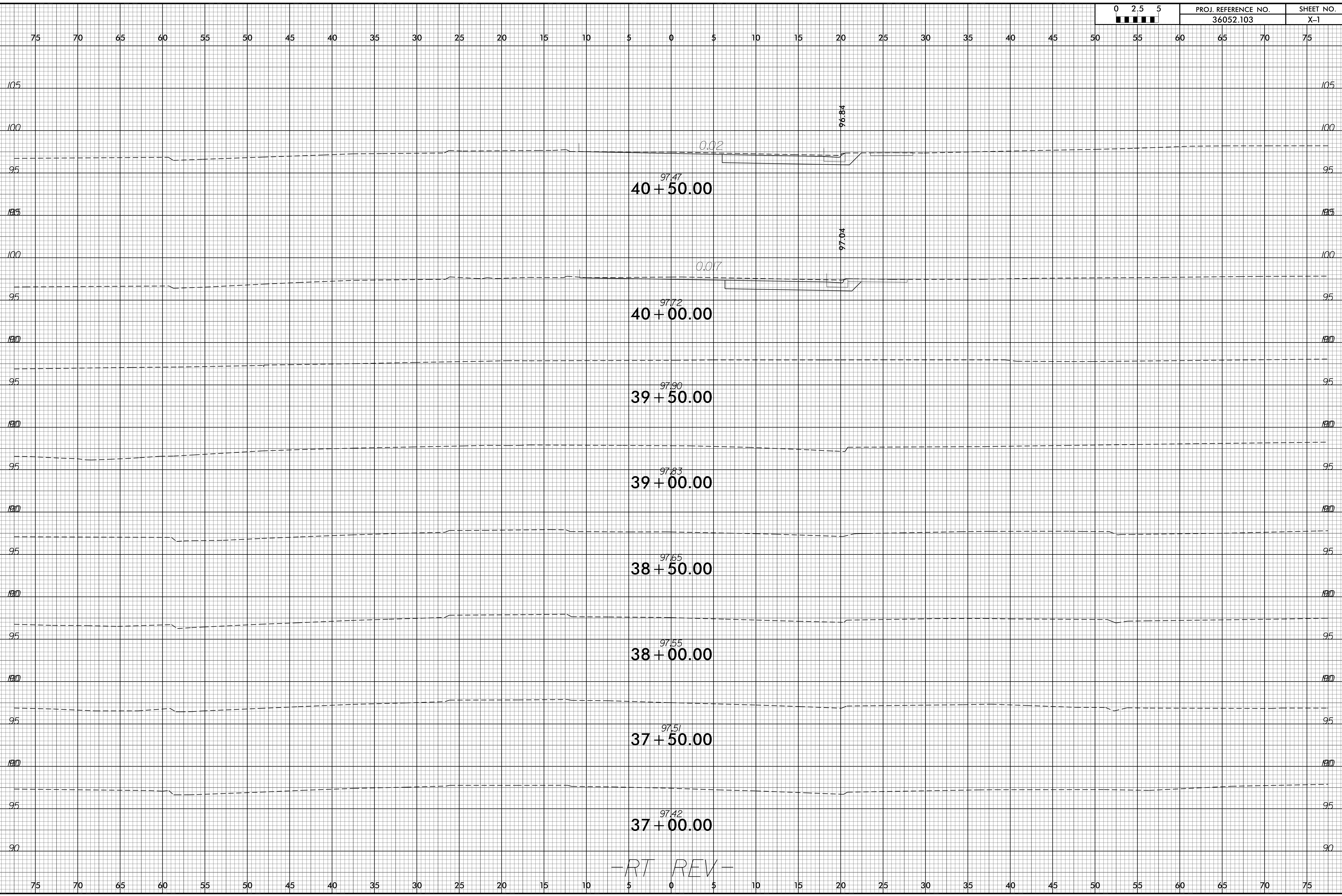
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7 OF 7



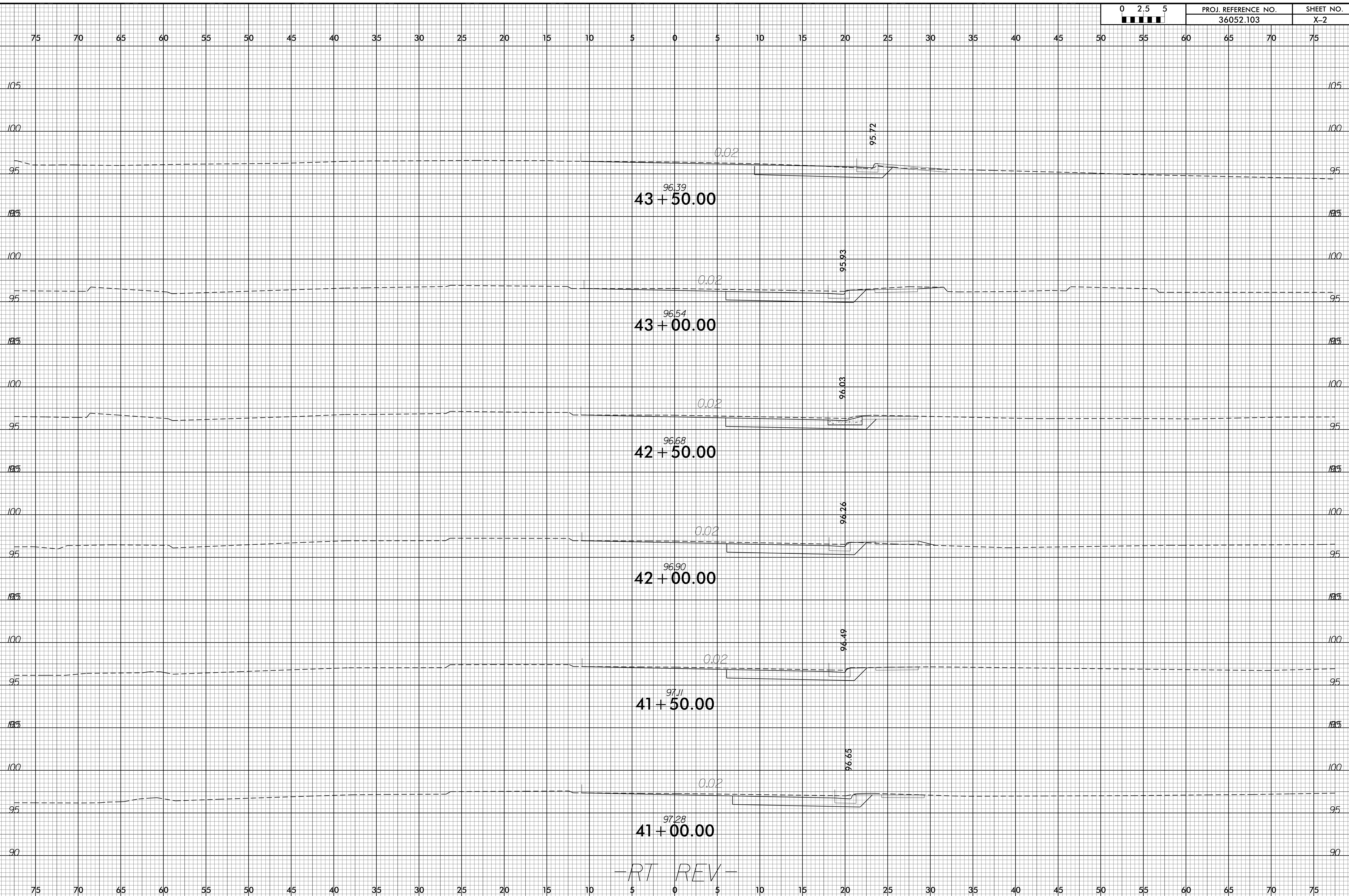
RUSSELL STREET
(GILLESPIE TO EASTERN)
12" WATER MAIN INSTALLATION PHASE I

WATER RESOURCES ENGINEERING
P.O. Box 10808 Fayetteville, NC 28408
895 Old Wilmington Road, Fayetteville, NC 28401

**FINAL DRAWING
NOT FOR CONSTRUCTION**

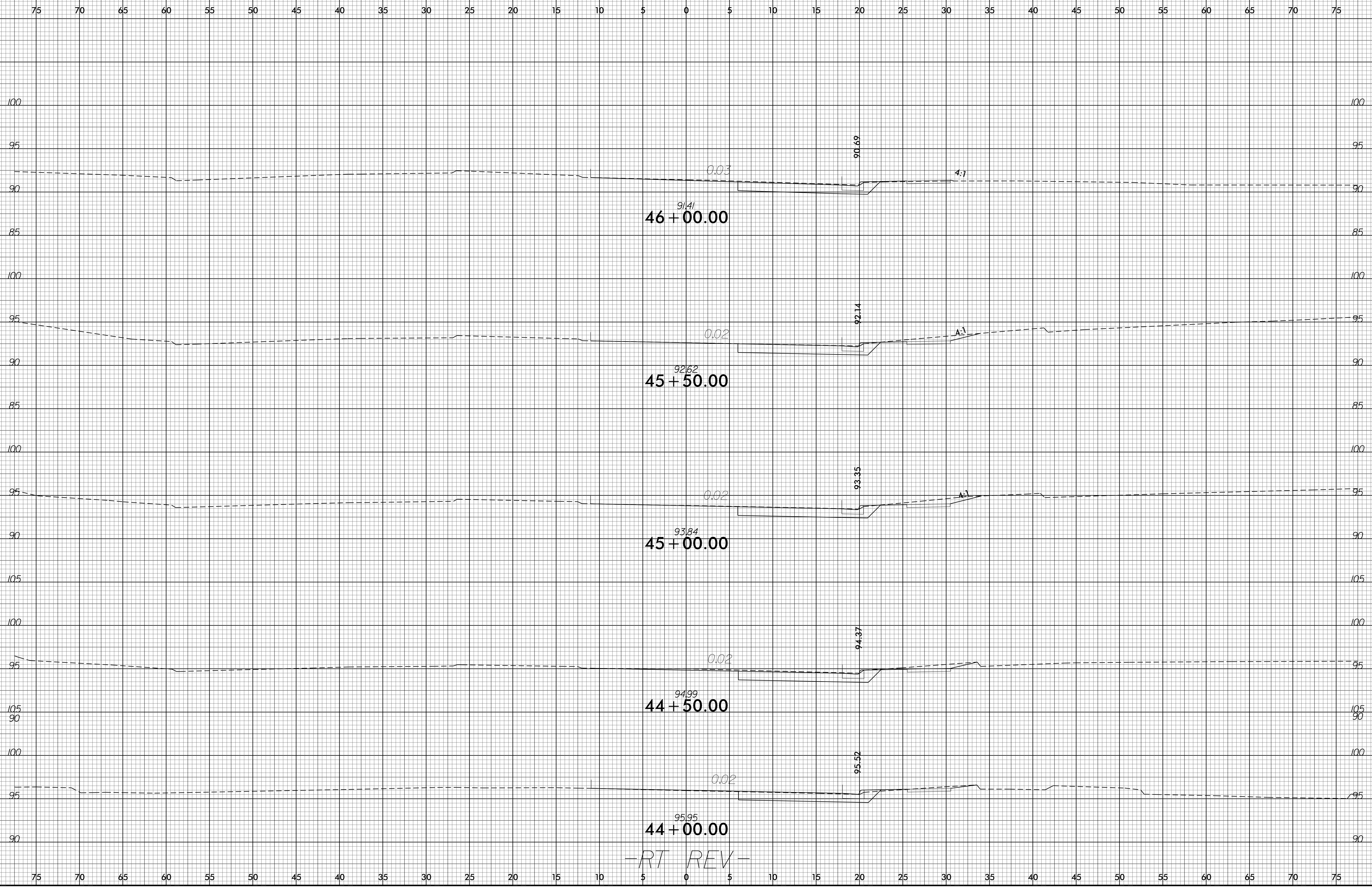
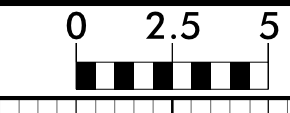


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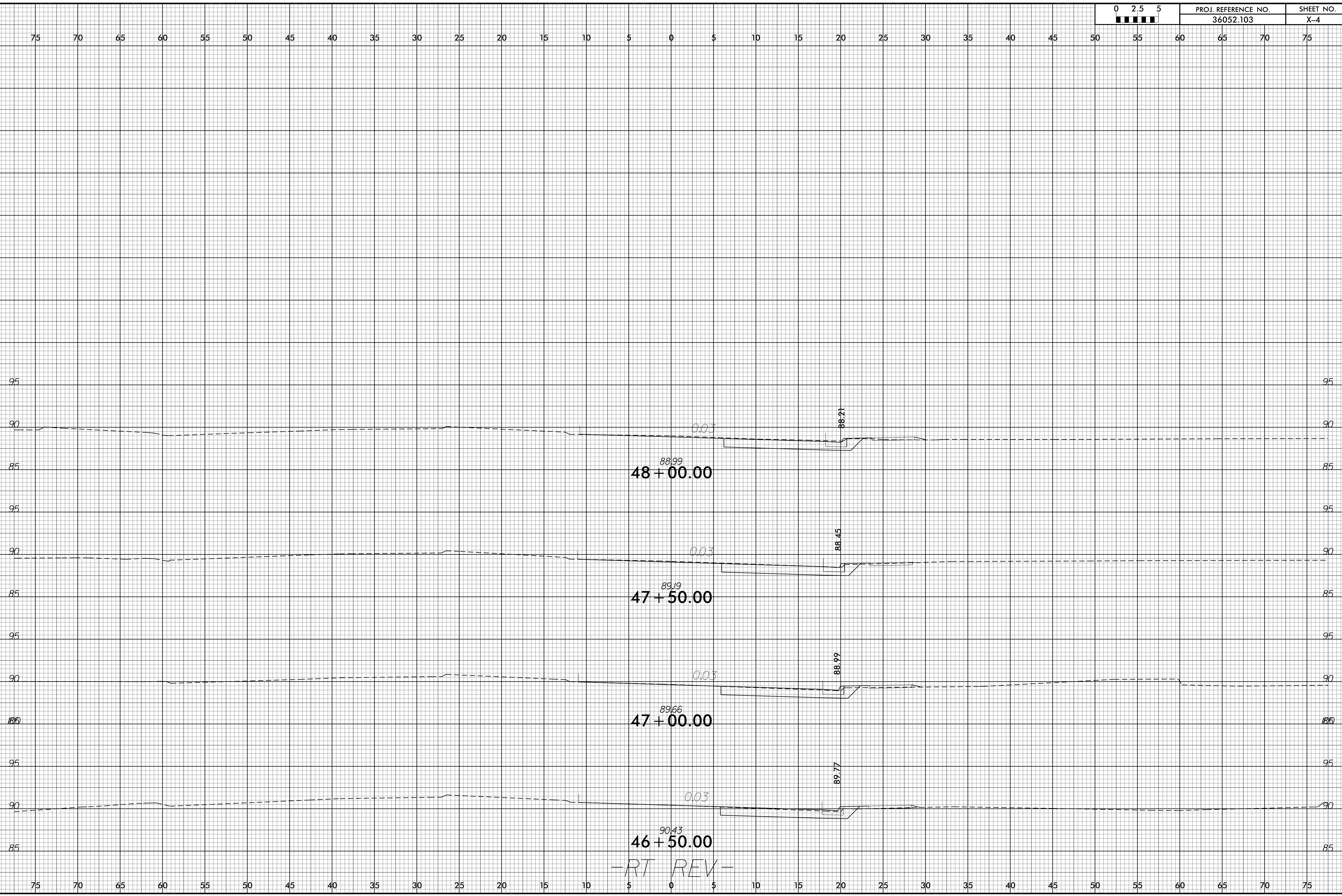


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