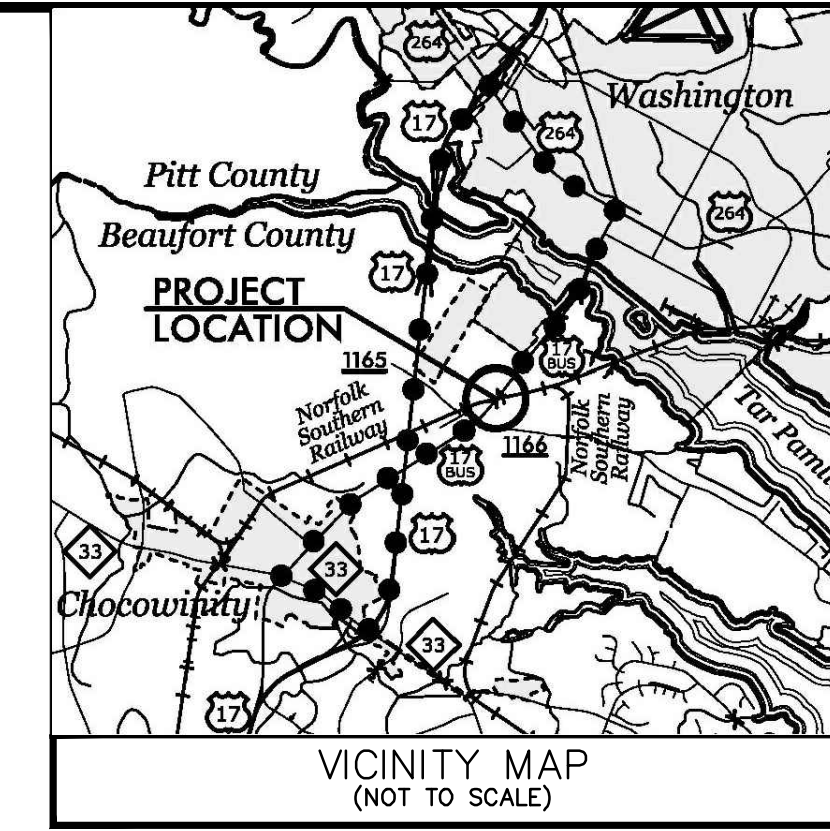
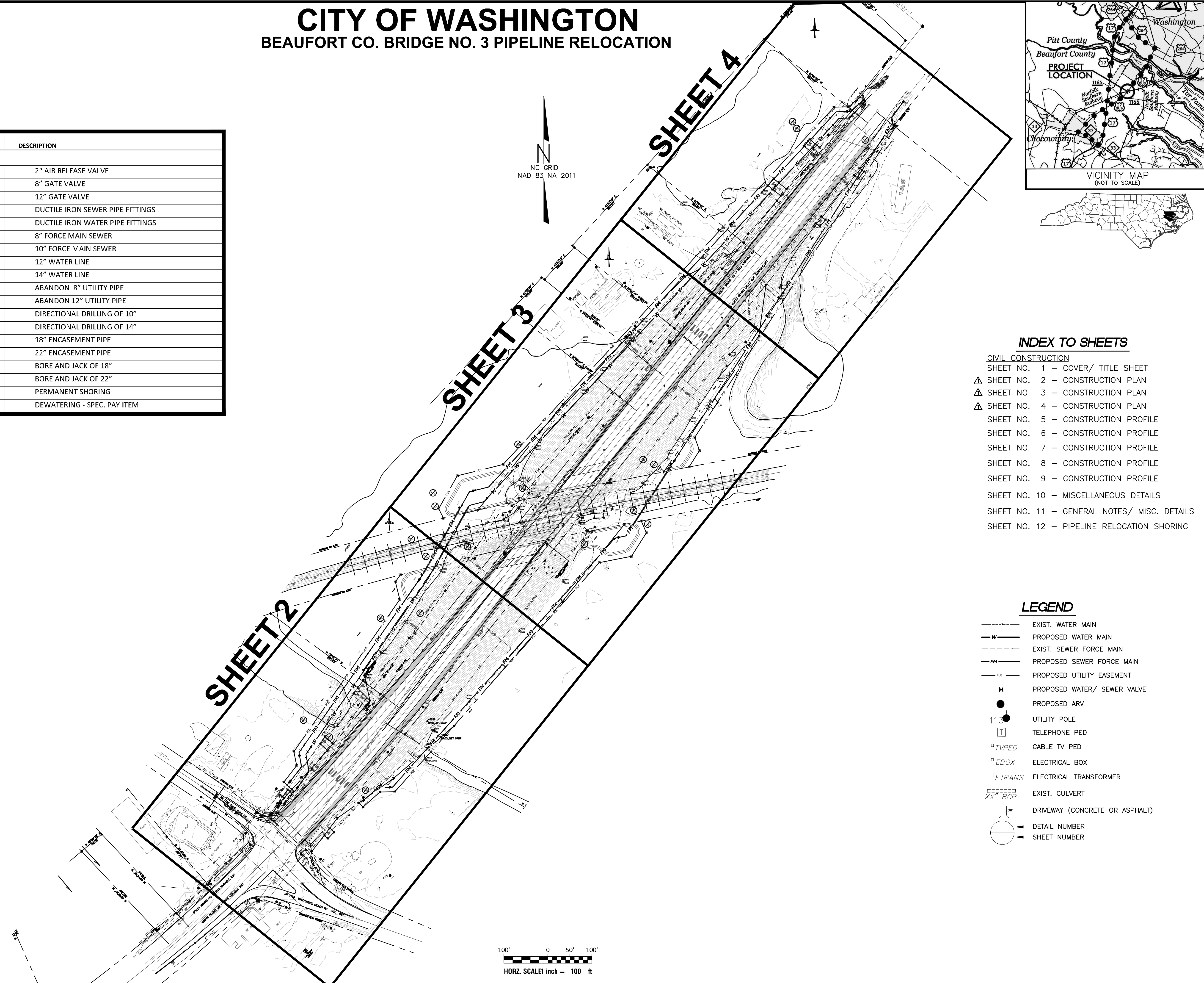


CITY OF WASHINGTON

BEAUFORT CO. BRIDGE NO. 3 PIPELINE RELOCATION

ITEM NO.	QTY.	UNIT	DESCRIPTION
PAY ITEMS			
1.	8	EA	2" AIR RELEASE VALVE
2.	8	EA	8" GATE VALVE
3.	2	EA	12" GATE VALVE
4.	2,800	LBS	DUCTILE IRON SEWER PIPE FITTINGS
5.	2,600	LBS	DUCTILE IRON WATER PIPE FITTINGS
6.	1,000	LF	8" FORCE MAIN SEWER
7.	3,250	LF	10" FORCE MAIN SEWER
8.	500	LF	12" WATER LINE
9.	1,620	LF	14" WATER LINE
10.	4,120	LF	ABANDON 8" UTILITY PIPE
11.	2,040	LF	ABANDON 12" UTILITY PIPE
12.	3,250	LF	DIRECTIONAL DRILLING OF 10"
13.	1,620	LF	DIRECTIONAL DRILLING OF 14"
14.	330	LF	18" ENCASEMENT PIPE
15.	165	LF	22" ENCASEMENT PIPE
16.	330	LF	BORE AND JACK OF 18"
17.	165	LF	BORE AND JACK OF 22"
18.	4,200	SF	PERMANENT SHORING
19.	1	LS	DEWATERING - SPEC. PAY ITEM



REVISIONS:			
NO.	DATE	DESCRIPTION	BY



INDEX TO SHEETS

CIVIL CONSTRUCTION

SHEET NO. 1	- COVER/ TITLE SHEET
△ SHEET NO. 2	- CONSTRUCTION PLAN
△ SHEET NO. 3	- CONSTRUCTION PLAN
△ SHEET NO. 4	- CONSTRUCTION PLAN
SHEET NO. 5	- CONSTRUCTION PROFILE
SHEET NO. 6	- CONSTRUCTION PROFILE
SHEET NO. 7	- CONSTRUCTION PROFILE
SHEET NO. 8	- CONSTRUCTION PROFILE
SHEET NO. 9	- CONSTRUCTION PROFILE
SHEET NO. 10	- MISCELLANEOUS DETAILS
SHEET NO. 11	- GENERAL NOTES/ MISC. DETAILS
SHEET NO. 12	- PIPELINE RELOCATION SHORING

LEGEND

	EXIST. WATER MAIN
	PROPOSED WATER MAIN
	EXIST. SEWER FORCE MAIN
	PROPOSED SEWER FORCE MAIN
	PROPOSED UTILITY EASEMENT
	PROPOSED WATER/ SEWER VALVE
	PROPOSED ARV
	UTILITY POLE
	TELEPHONE PED
	CABLE TV PED
	ELECTRICAL BOX
	ELECTRICAL TRANSFORMER
	EXIST. CULVERT
	DRIVEWAY (CONCRETE OR ASPHALT)
	← DETAIL NUMBER
	← SHEET NUMBER

COVER SHEET
CITY OF WASHINGTON
BEAUFORT COUNTY BRIDGE NO. 3
PIPELINE RELOCATION
 NORTH CAROLINA
 BEAUFORT COUNTY

Rivers & Associates, Inc.
 Since 1918
 ENGINEERS, PLANNERS, SURVEYORS
 107 EAST BROAD STREET
 GREENVILLE, NC 27603
 (252) 752-4135
 Landscape Architects

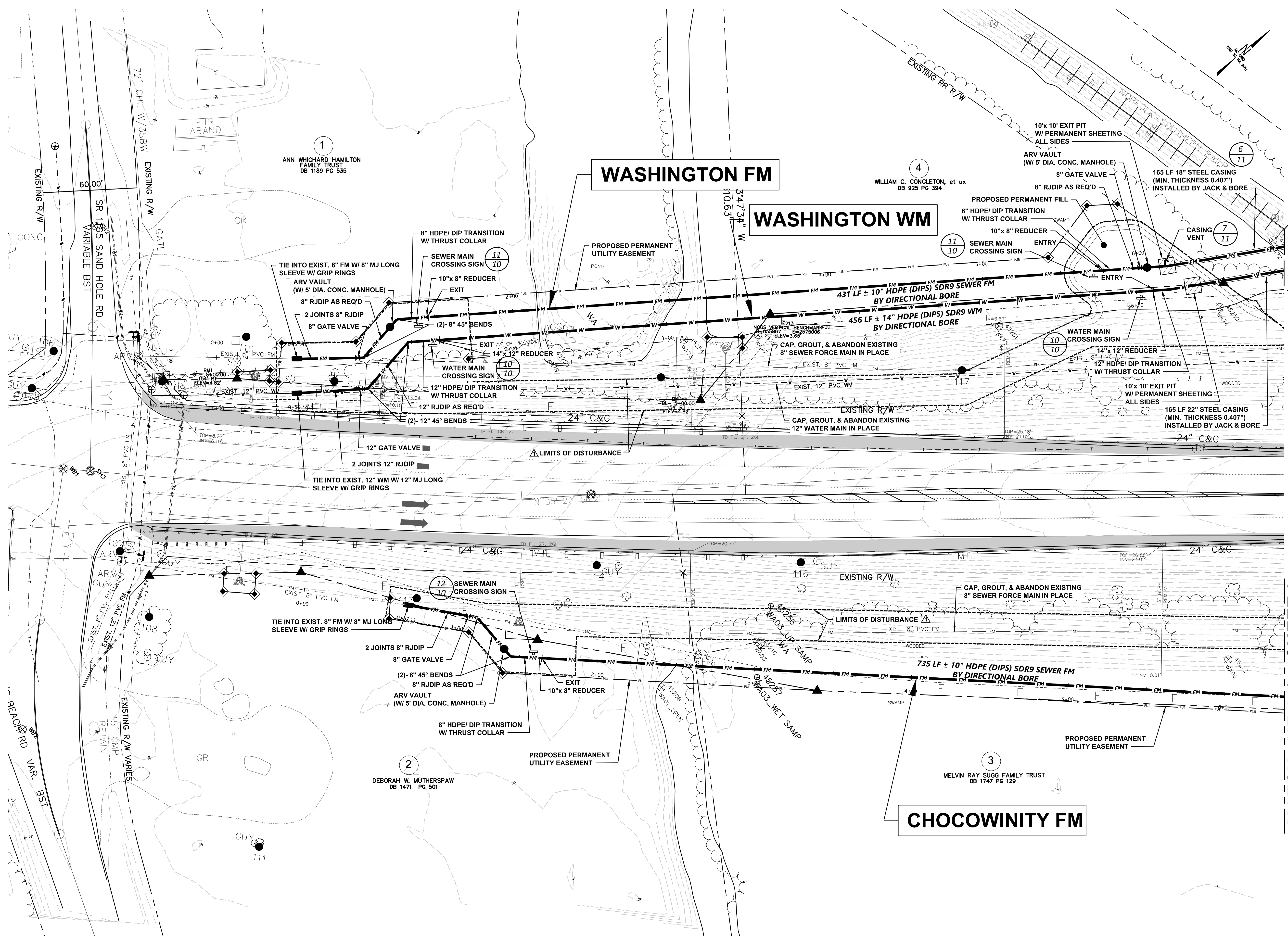
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Survey	- Draft	JML
Design	FLS Check	FLS
Project No.	2018047	
Drawing No.	W-3823	
Scale:	AS SHOWN	
Sheet No.	of 12	

1

2:14/11/2021 10:00 AM - Beaufort County Bridge No. 3 Pipeline Relocation - 2018047.DWG - UNPLANNED DESIGNS & ASSOCIATES, INC. (L) 2021/01/14/10:00 AM - 1274817.MXD

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MATCHLINE A-1 SHEET 3

MATCHLINE A-2 SHEET 3

MATCHLINE A-3 SHEET 3

REVISIONS:

NO.	DATE	DESCRIPTION	BY	APP'D
1	6/23/20	LIMITS OF DISTURBANCE ADDED		
2				
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CONSTRUCTION PLAN
CITY OF WASHINGTON
BEAUFORT COUNTY BRIDGE NO. 3
PIPELINE RELOCATION

NORTH CAROLINA
 BEAUFORT COUNTY

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 (252) 752-4135
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Date: 3/12/2021
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 Drawing No. W-3823
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 Sheet No. of 12

MATCHLINE A-1 SHEET 2

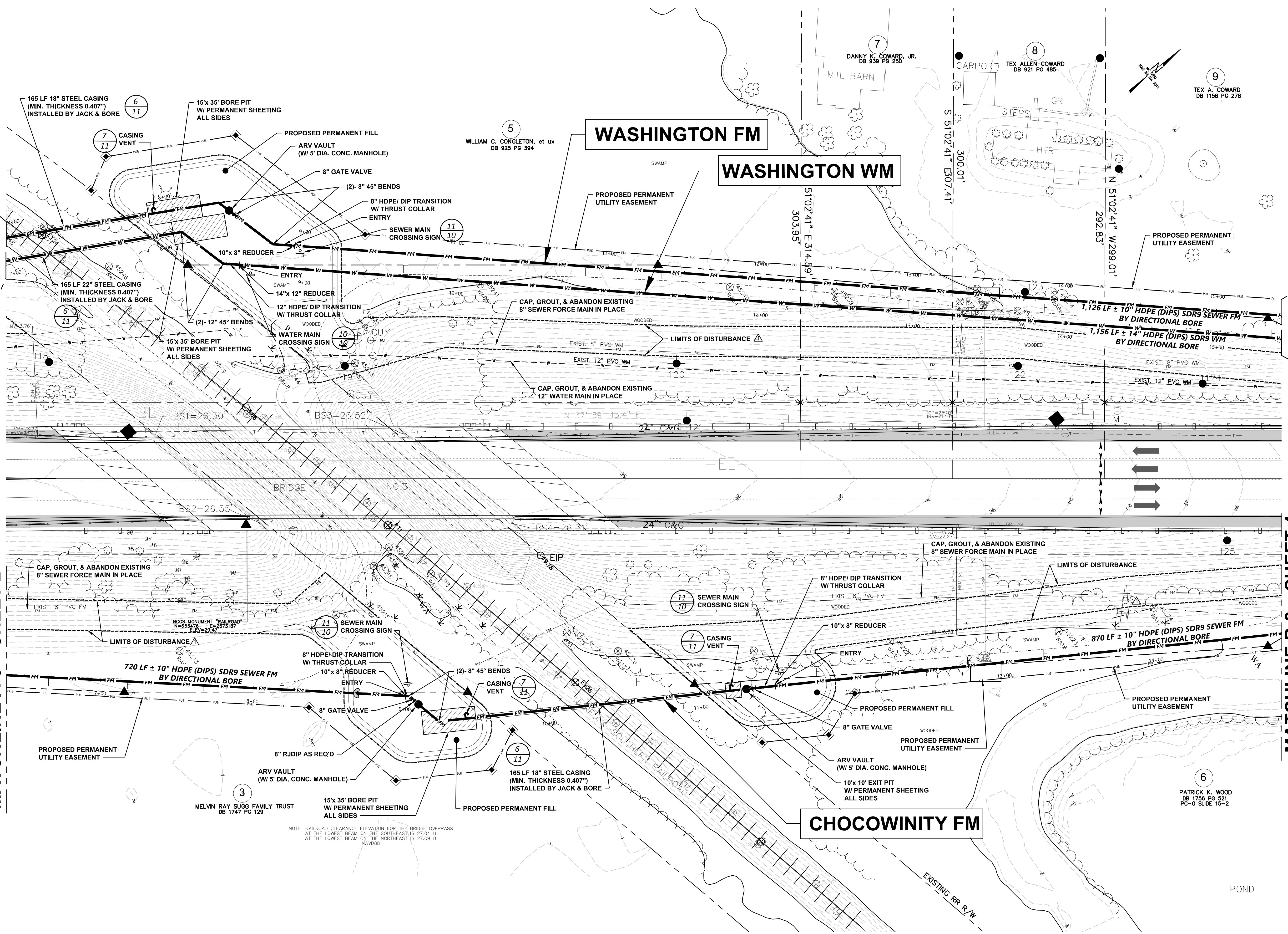
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MATCHLINE A-3 SHEET 2

MATCHLINE B-1 SHEET 4

MATCHLINE B-2 SHEET 4

MATCHLINE B-3 SHEET 4



REVISIONS:

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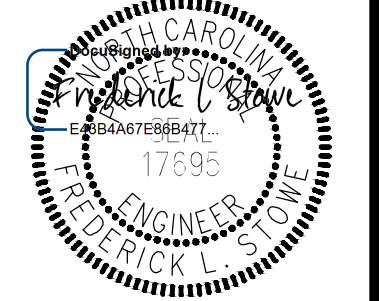


CONSTRUCTION PLAN
CITY OF WASHINGTON
BEAUFORT COUNTY BRIDGE NO. 3
PIPELINE RELOCATION

NORTH CAROLINA
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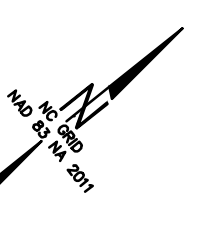
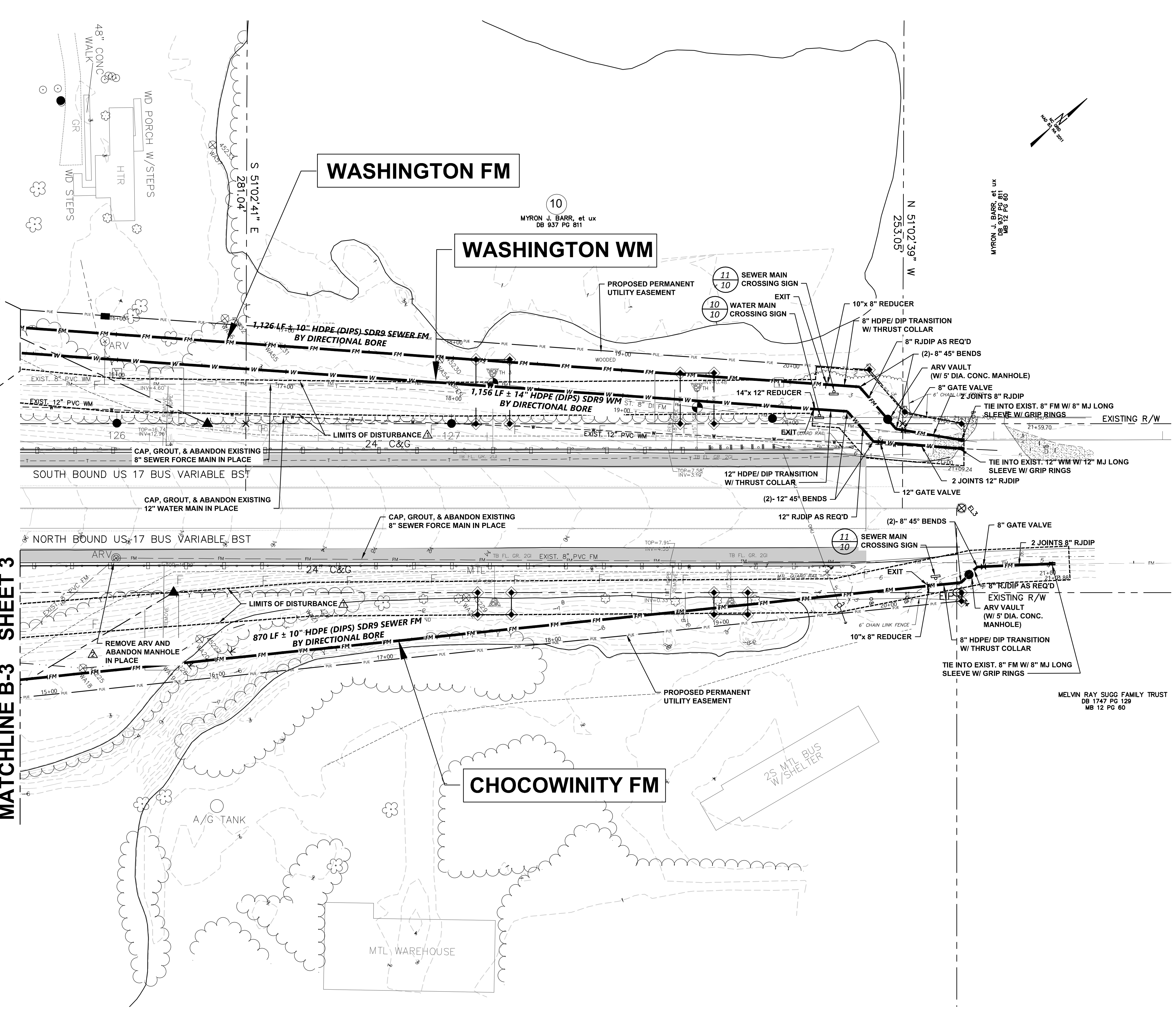
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Sheet No.	of 12	

MATCHLINE B-1 SHEET 3

MATCHLINE B-2 SHEET 3

MATCHLINE B-3 SHEET 3



REVISIONS:	
DATE	DESCRIPTION
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8/20/20	FLS
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	NOTE ADDED PER ADDENDUM #1

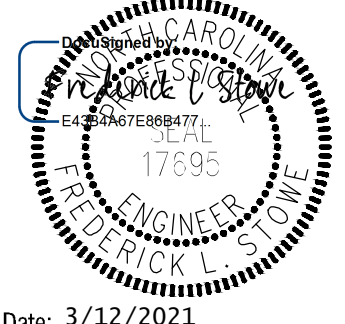


CONSTRUCTION PLAN
CITY OF WASHINGTON
BEAUFORT COUNTY BRIDGE NO. 3
PIPELINE RELOCATION

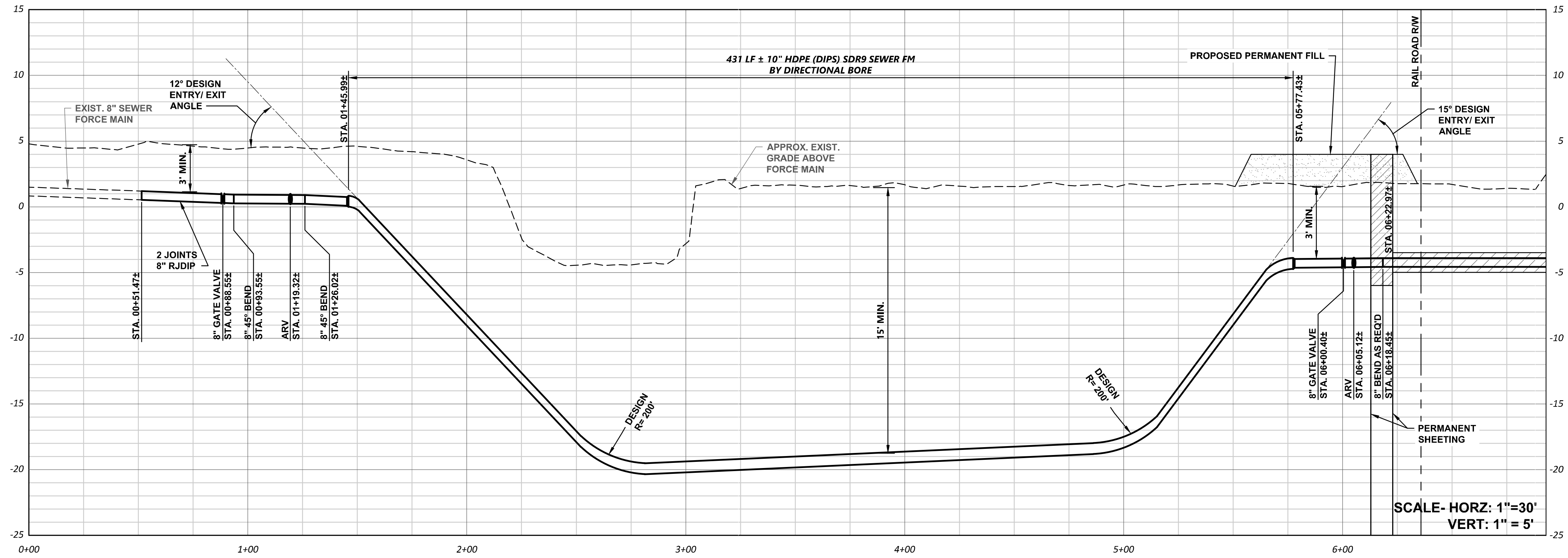
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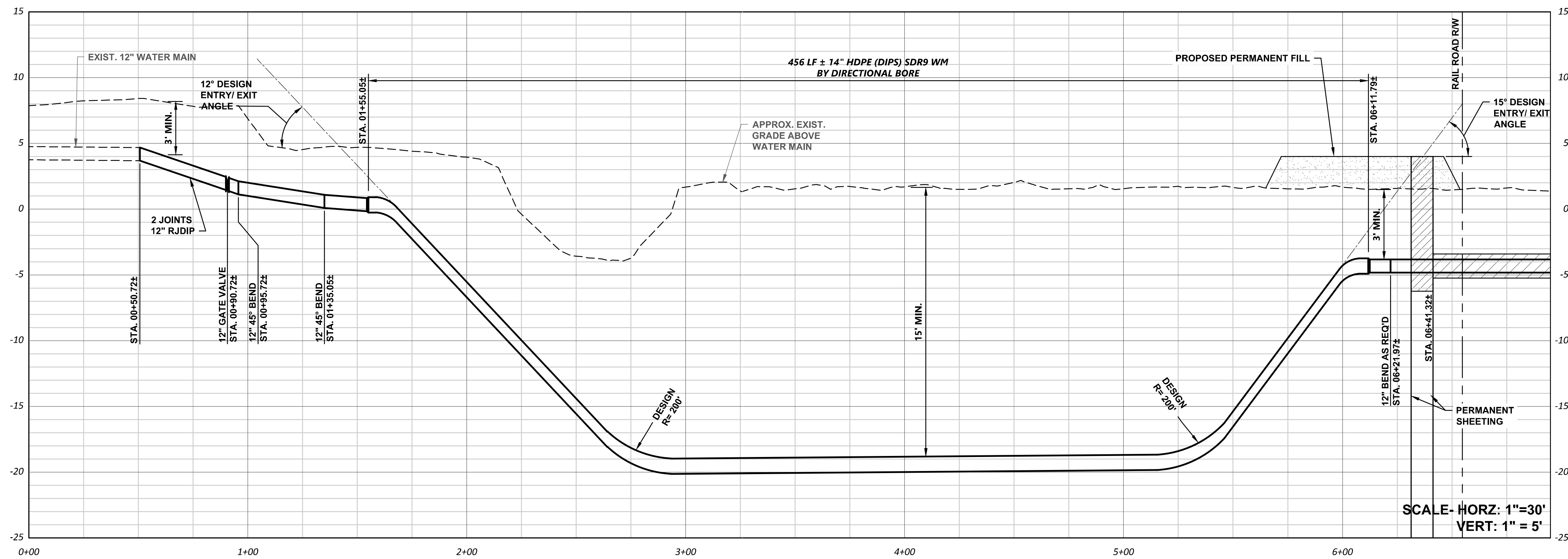
NC License 16-824
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Date:	3/12/2021	
Survey:	- Draft	JML
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Sheet No.:	of 12	



WASHINGTON FM



WASHINGTON WM

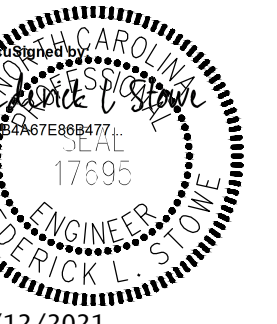
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CONSTRUCTION PROFILE
CITY OF WASHINGTON
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PIPELINE RELOCATION
BEAUFORT COUNTY
NORTH CAROLINA

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 107 East 8th Street
 Greenville, NC 27838
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 Landscape Architects



Date: 3/12/2021

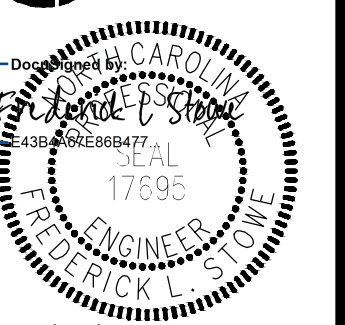
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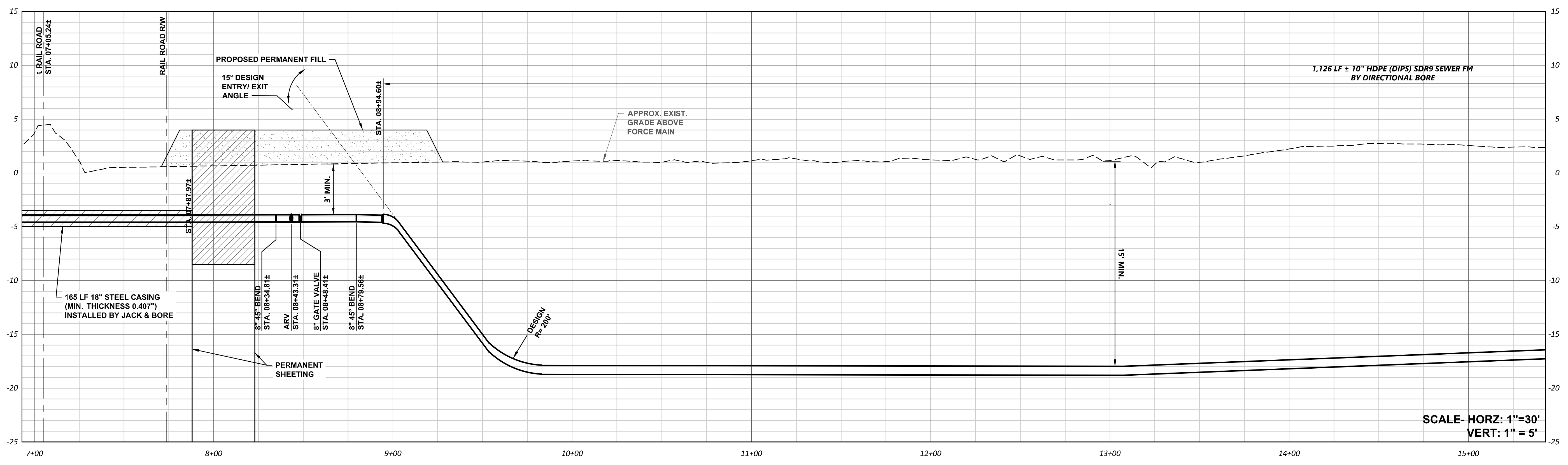
CONSTRUCTION PROFILE
CITY OF WASHINGTON
BEAUFORT COUNTY BRIDGE NO. 3
PIPELINE RELOCATION
 BEAUFORT COUNTY
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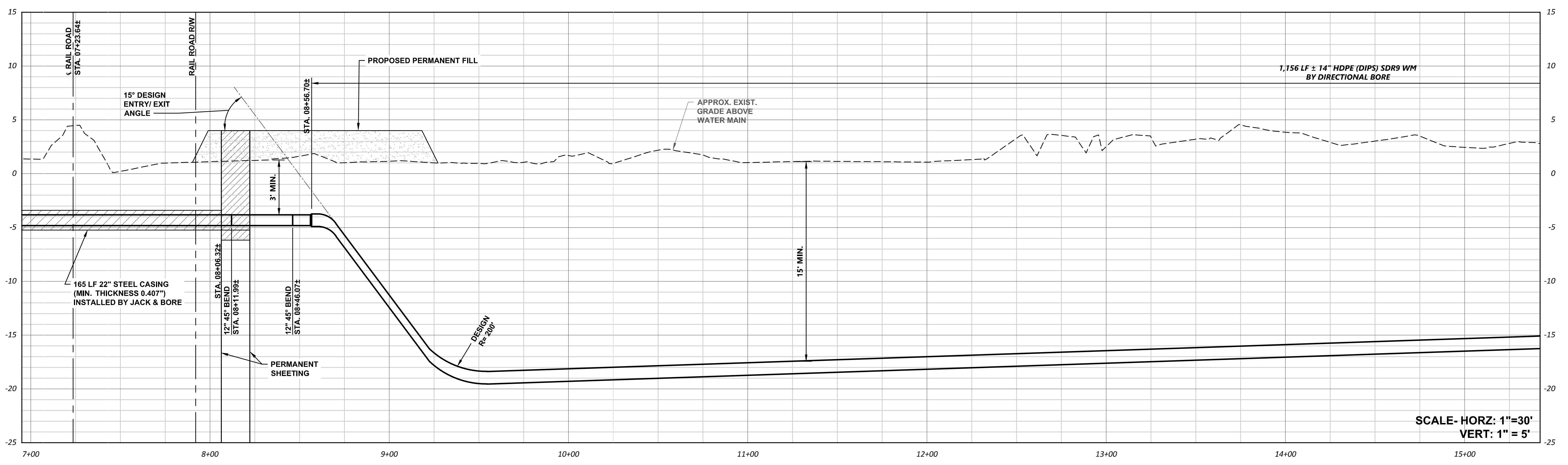


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Sheet No.	of 12		

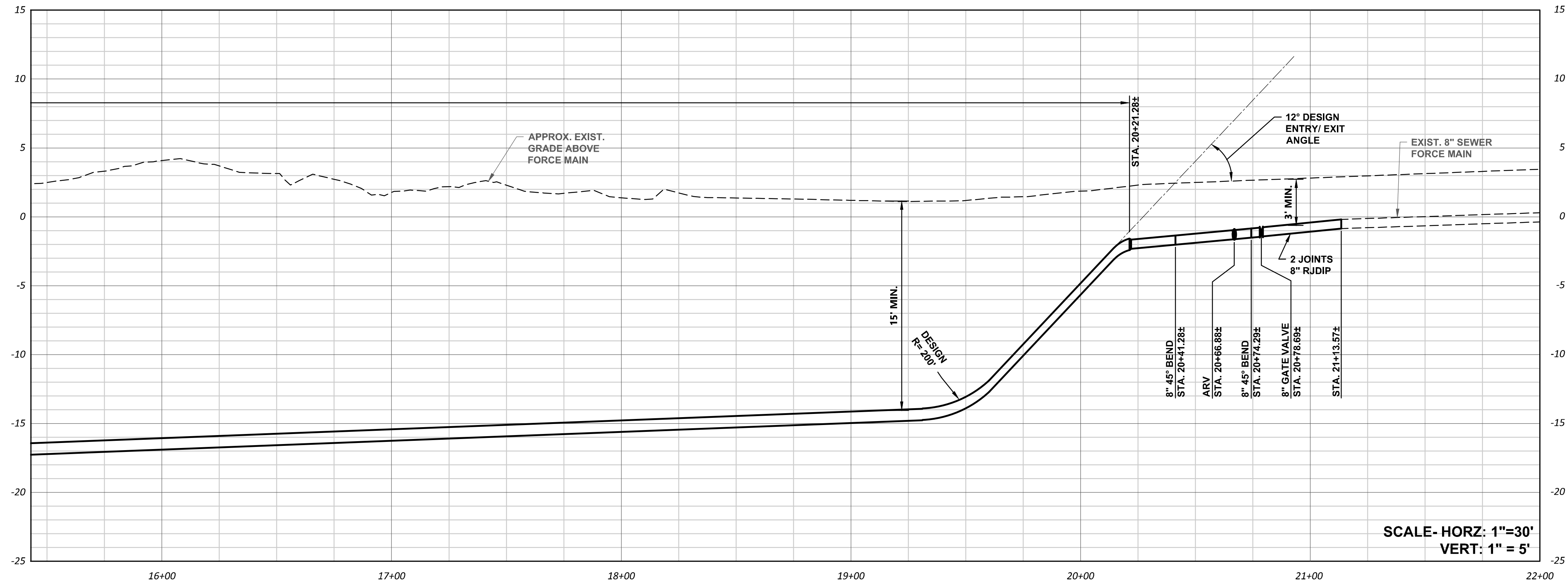


WASHINGTON FM

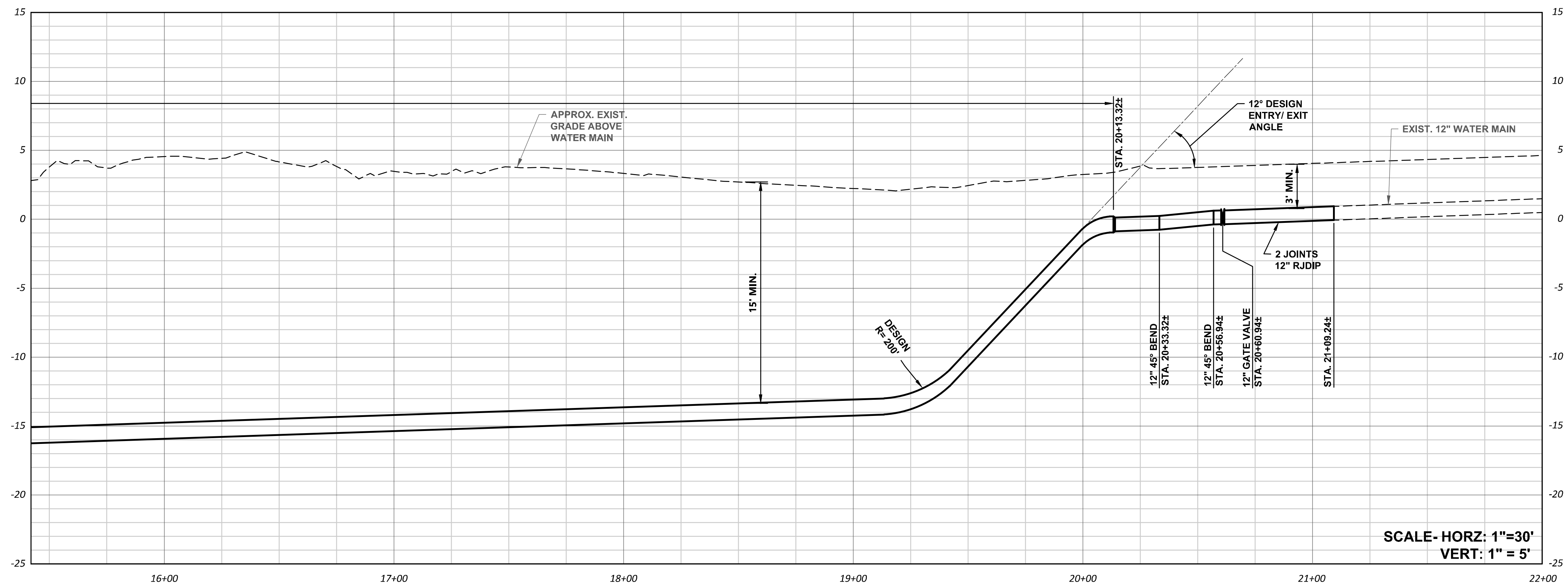


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WASHINGTON FM



WASHINGTON WM

REVISIONS:

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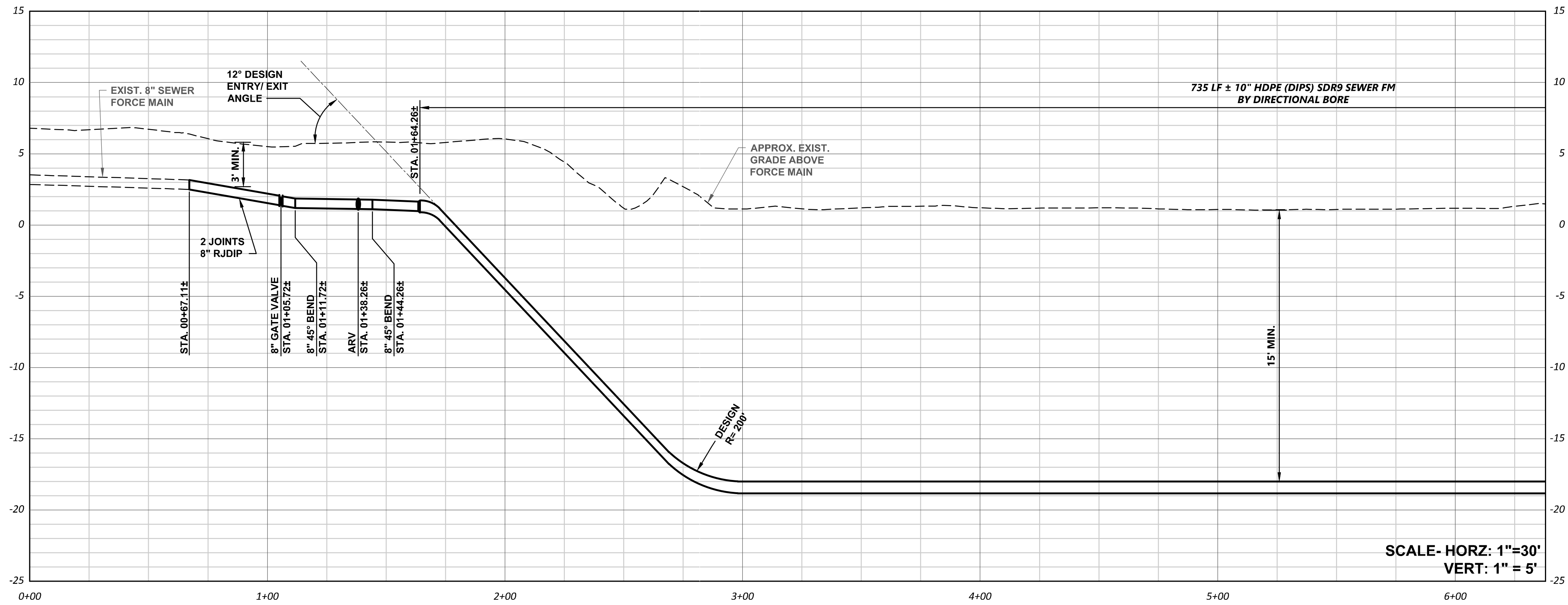


CONSTRUCTION PROFILE
CITY OF WASHINGTON
BEAUFORT COUNTY BRIDGE NO. 3
PIPELINE RELOCATION
 BEAUFORT COUNTY
 NORTH CAROLINA

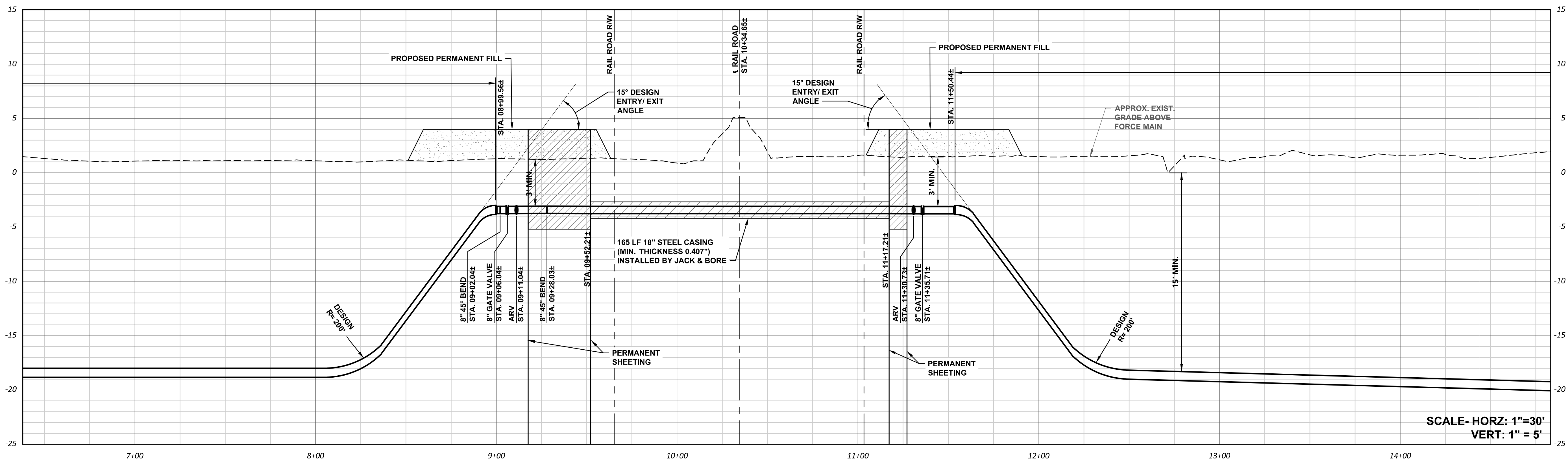
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Sheet No.	of 12		



CHOCOWINITY FM



CHOCOWINITY FM

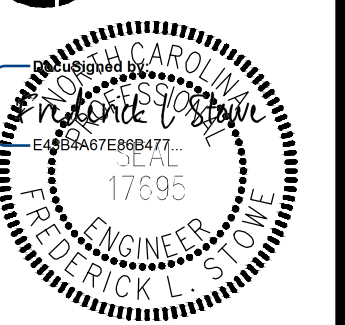
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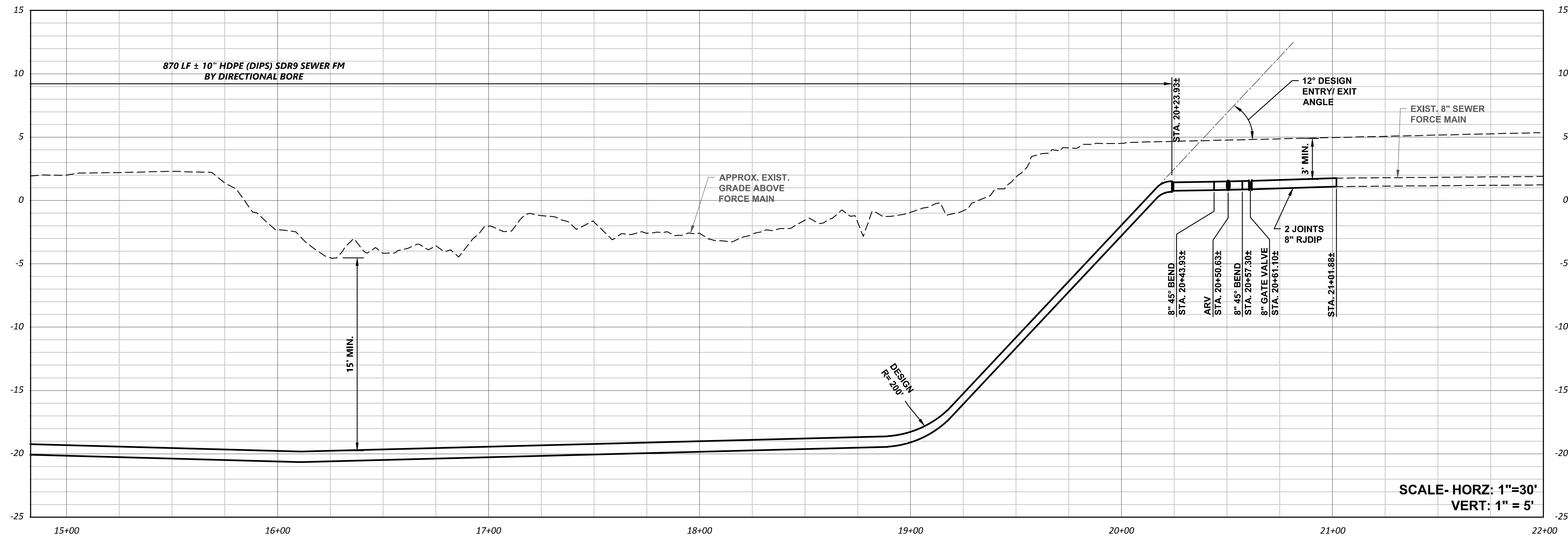
CONSTRUCTION PROFILE
CITY OF WASHINGTON
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CHOCOWINITY FM

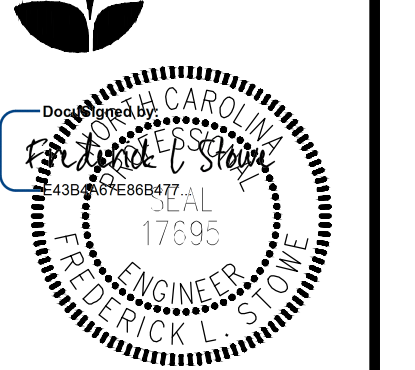
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CONSTRUCTION PROFILE
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BEAUFORT COUNTY BRIDGE NO. 3
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Project No.	2018047		
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Scale:	1"=30'		

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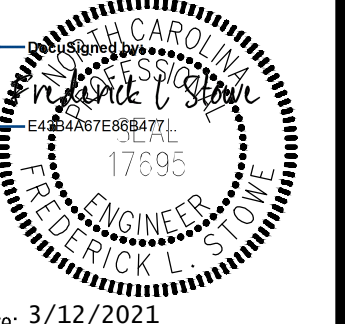
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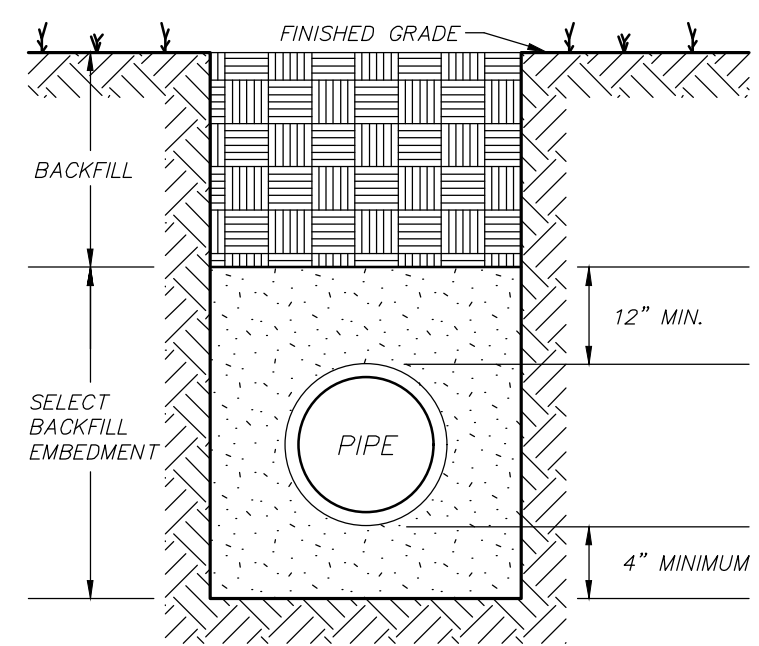


MISCELLANEOUS DETAILS
CITY OF WASHINGTON
BEAUFORT COUNTY BRIDGE NO. 3
PIPELINE RELOCATION
 NORTH CAROLINA
 BEAUFORT COUNTY

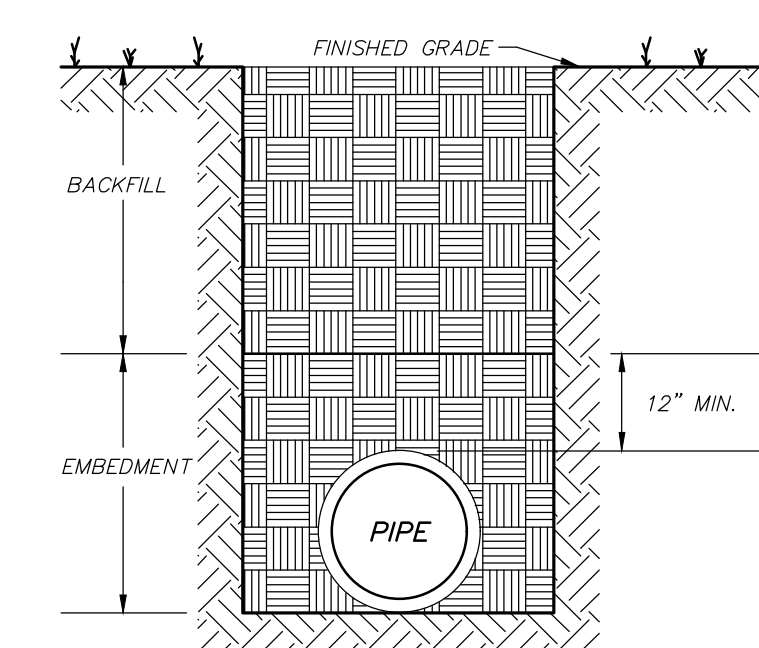
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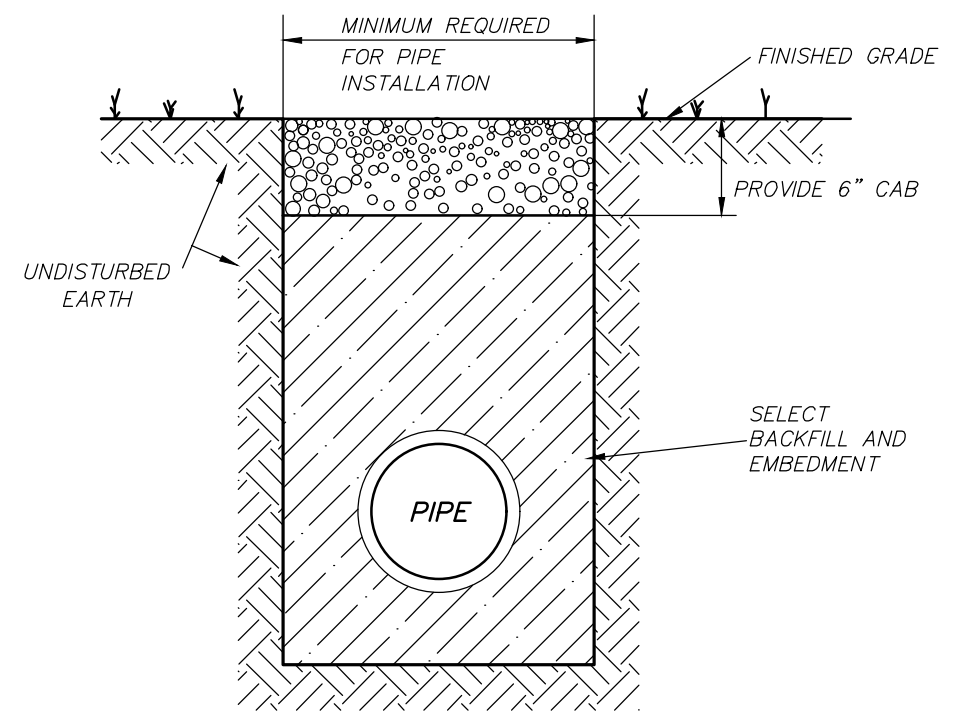
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 Drawing No. **W-3823**
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 Sheet No. of 12



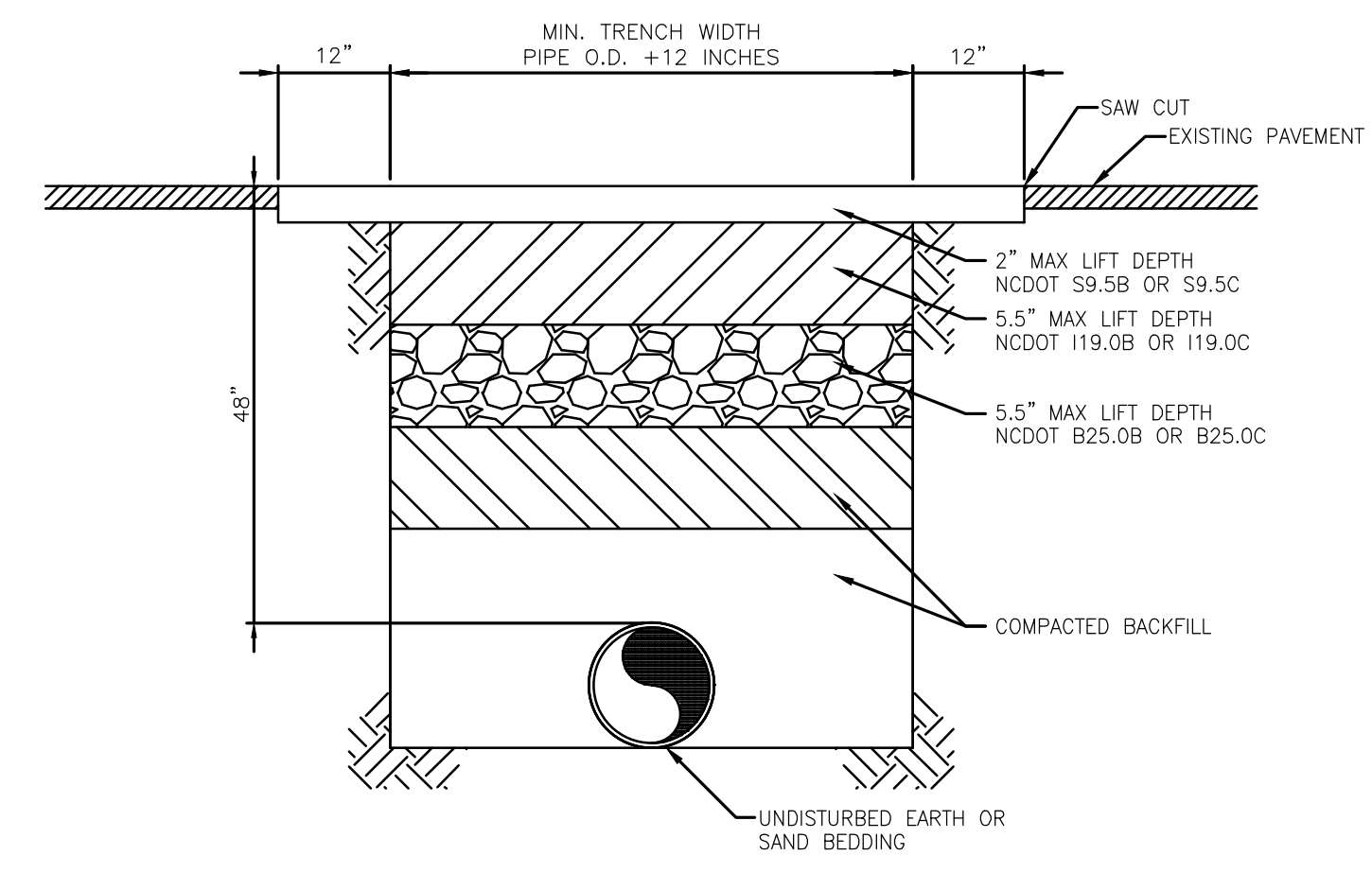
7 CLASS "E" BEDDING
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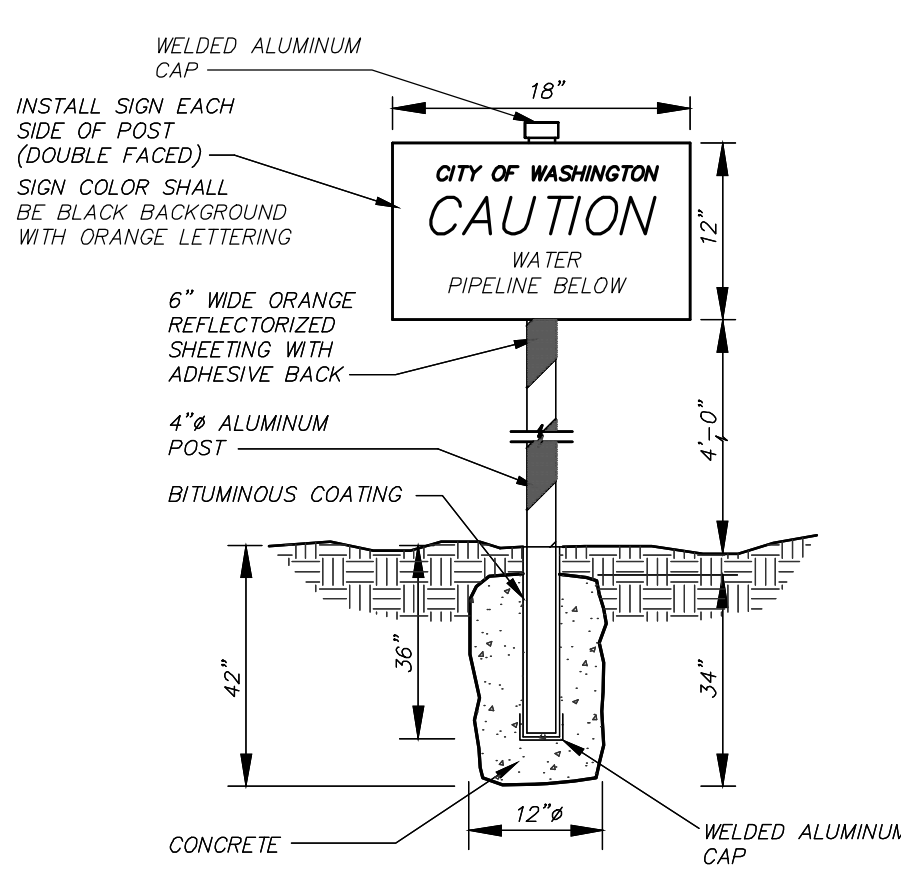
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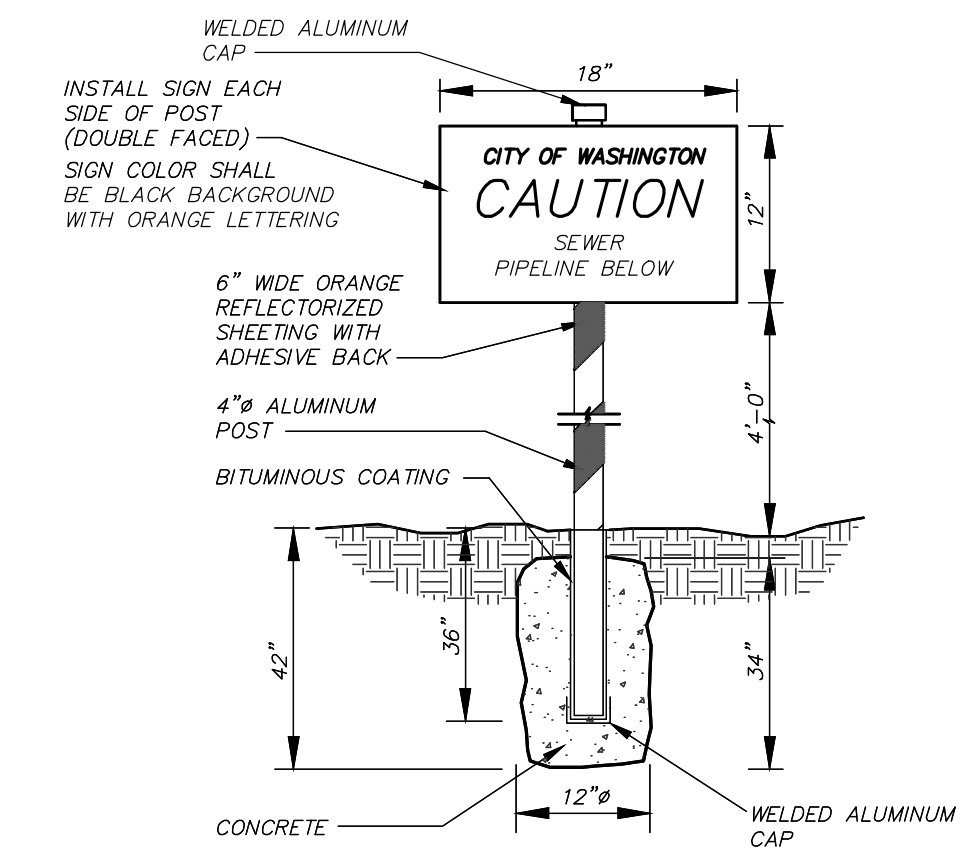
9 TYP. SOIL AND STONE DRIVE CONSTRUCTION
10 NOT TO SCALE



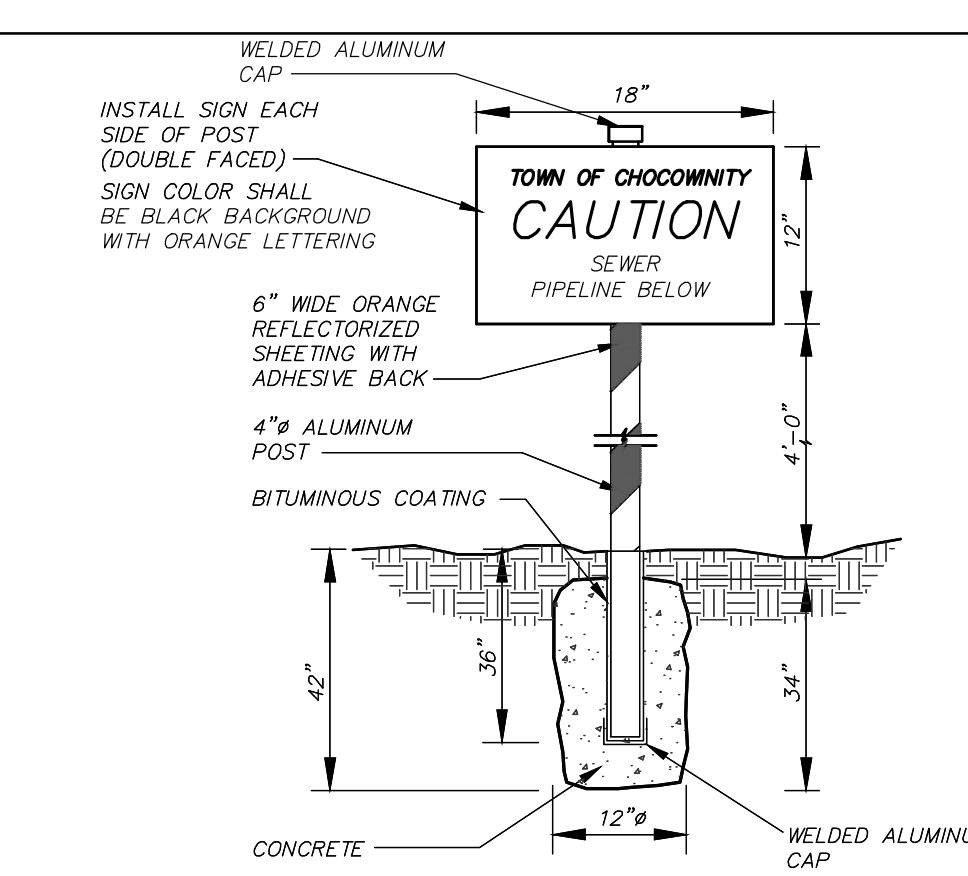
6 TYPICAL PAVEMENT REPAIR ON NCDOT MAINTAINED ROADS
10 NOT TO SCALE



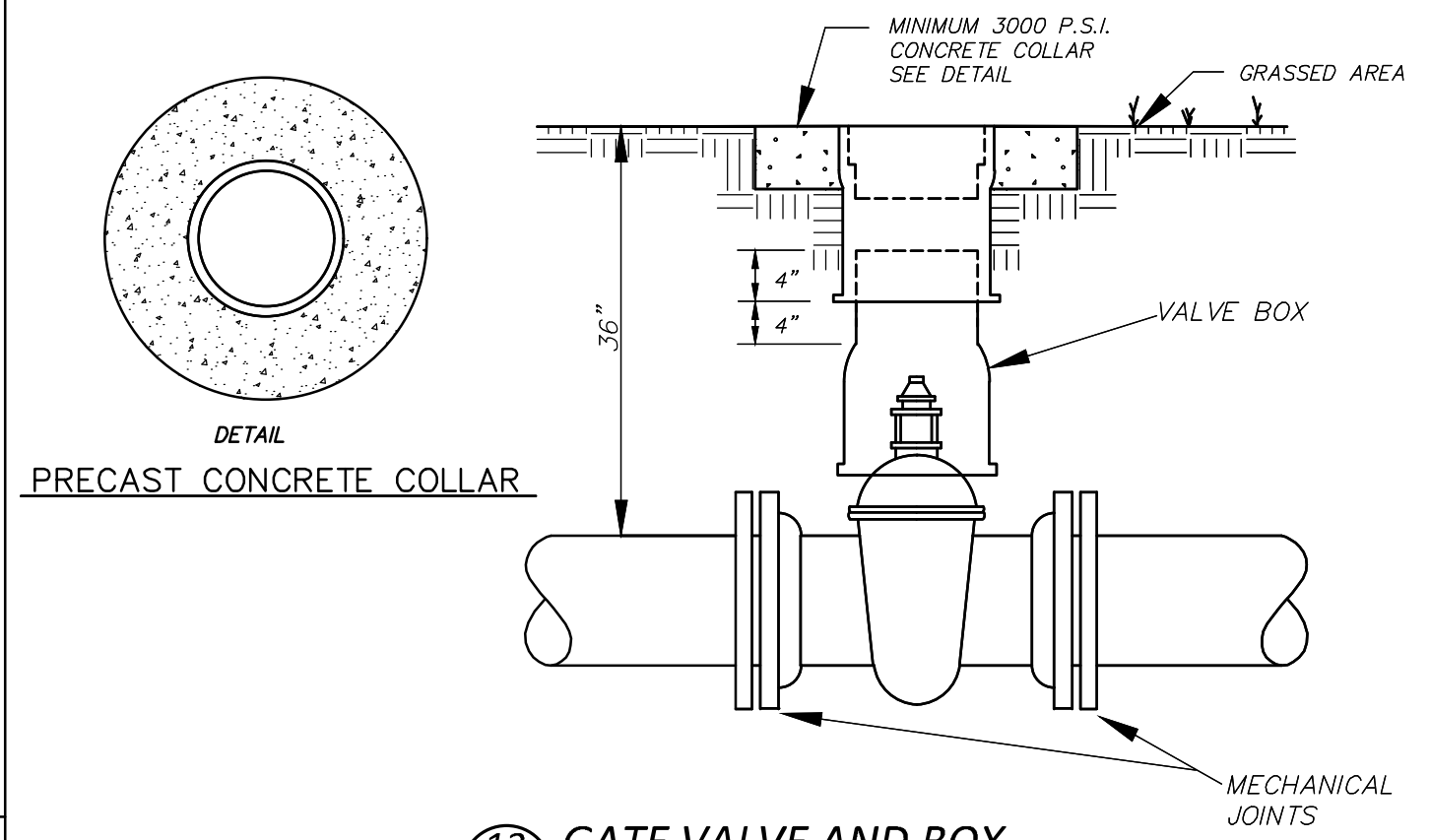
10 WATER PIPELINE CROSSING SIGN DETAIL
10 CITY OF WASHINGTON NOT TO SCALE



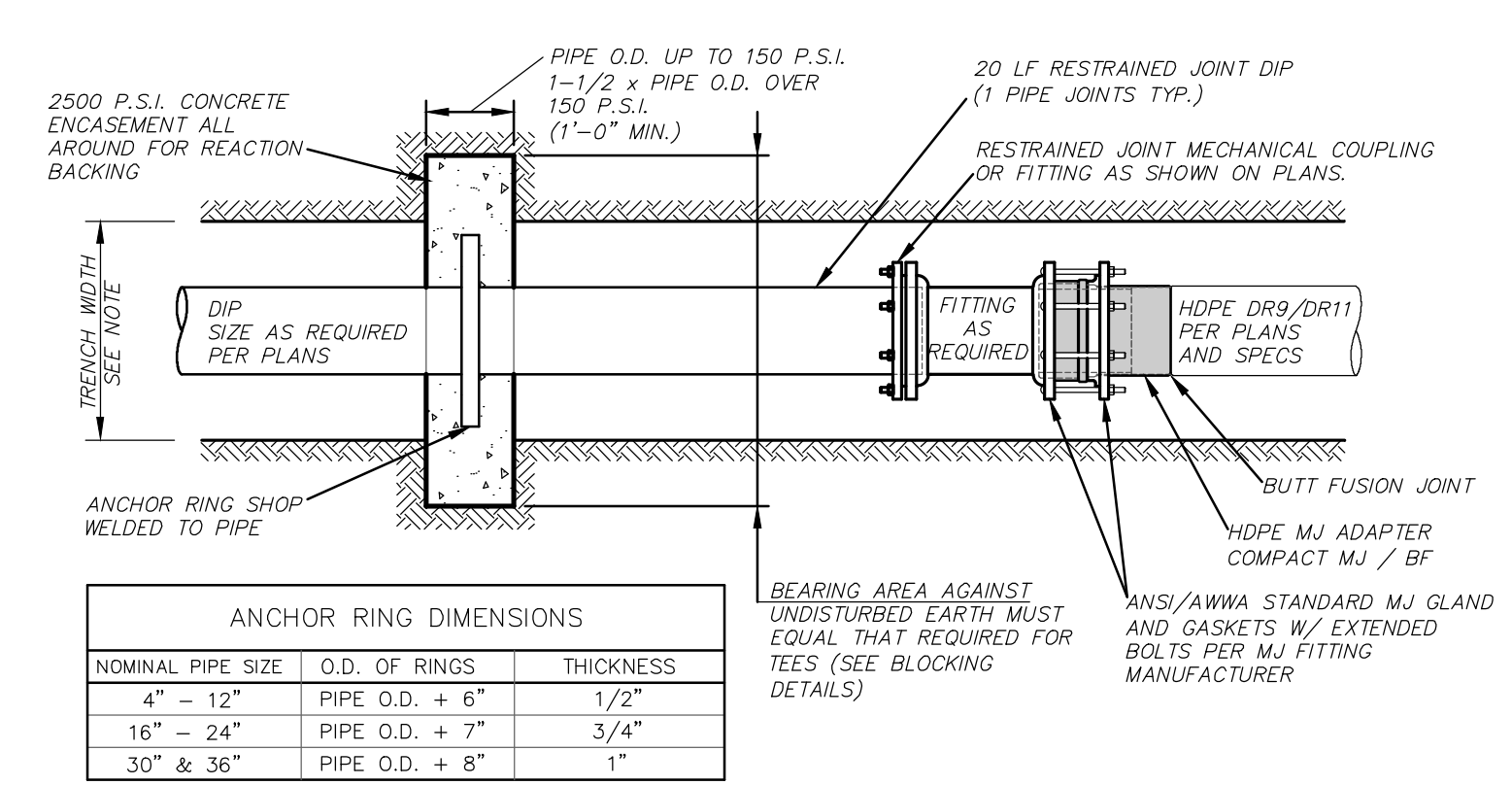
11 SEWER PIPELINE CROSSING SIGN DETAIL
10 CITY OF WASHINGTON NOT TO SCALE



12 SEWER PIPELINE CROSSING SIGN DETAIL
10 TOWN OF CHOCOWINITY NOT TO SCALE



13 GATE VALVE AND BOX
10 NOT TO SCALE



ANCHOR RING DIMENSIONS		
NOMINAL PIPE SIZE	O.D. OF RINGS	THICKNESS
4" - 12"	PIPE O.D. + 6"	1/2"
16" - 24"	PIPE O.D. + 7"	3/4"
30" & 36"	PIPE O.D. + 8"	1"

14 DIP TO HDPE TRANSITION WITH THRUST COLLAR
10 NOT TO SCALE

NOTES:

- ALL NEW MAINS AND APPURTENANCES, MINUS TIE-INS, SHALL BE COMPLETED, CLEANED, TESTED, DISINFECTED (FOR WATER MAIN) AND CERTIFIED PRIOR TO COMPLETING FINAL TIE-INS. FINAL TIE-INS TO THE EXISTING MAINS SHALL BE COMPLETED SIMULTANEOUSLY IN A MANNER SUCH THAT THE EXISTING MAINS ARE OUT OF SERVICE FOR AS SHORT A TIME AS POSSIBLE. CONTACT CITY OF WASHINGTON AND THE TOWN OF CHOCONOVITY A MINIMUM OF 48 HOURS IN ADVANCE OF PERFORMING FINAL TIE-INS WITH THE RESPECTIVE FORCE MAINS. THIS WORK SHALL BE COORDINATED WITH MR. ADAM WATERS, PUBLIC WORKS DIRECTOR (WASHINGTON) AT (252) 975-9332 AND MR. KEVIN BRICKHOUSE, PUBLIC WORKS DIRECTOR AT (252) 946-6568. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING WORK REQUIRING PLANNED DISRUPTIONS IN SERVICE.
- CONTRACTOR SHALL CONTAIN ALL SEWER AND REMOVE FROM SITE IN ACCORDANCE WITH APPLICABLE RULES AND REGULATION.
- BASE MAP INFORMATION, INCLUDING CONTROL, PROVIDED BY THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION.
- ALL PROPOSED ROADWAY AND DRAINAGE IMPROVEMENTS TO BE PERFORMED BY OTHERS AFTER WATER MAIN CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE TEMPORARY RESTRAINT IF NECESSARY AT TIE-IN LOCATIONS.
- CONTRACTOR SHALL CLEAR AND GRUB WITHIN NCDOT R/W OR PERMANENT UTILITY EASEMENT ONLY TO THE EXTENT NECESSARY FOR INSTALLATION OF PROPOSED MAINS. NO CLEARING OR GRUBBING, LAND DISTURBANCE OR STORING OF MATERIALS SHALL TAKE PLACE WITHIN THE RIPARIAN BUFFER ZONES OF THE STREAM (DESIGNATED BZI AND BZ2).
- ALL EXISTING POWER POLES WITHIN 10' OF NEW MAIN CONSTRUCTION SHALL BE BRACED IF REQUIRED BY THE OWNING UTILITY AND PAID FOR OUT OF THE POWER/UTILITY POLE HOLDING ALLOWANCE IF INCLUDED. CONTACT OWNING UTILITY AT LEAST 48 HOURS PRIOR TO NEED.
- CONTRACTOR SHALL INSTALL ANY NECESSARY TEMPORARY DEVICES FOR PIGGING AND FLUSHING AND INCLUDE PRICE IN APPROPRIATE BID ITEM.
- CONTRACTOR SHALL DECHLORINATE WATER USED FOR TESTING AND FLUSHING PRIOR TO DISCHARGE TO ANY SURFACE WATER. CONTRACTOR SHALL ALSO ACCOUNT FOR REMOVAL OF CHLORAMINES DURING FLUSHING.
- UPON COMPLETION OF ALL TIE-INS, CAP, GROUT AND ABANDON ALL EXISTING MAINS AS SPECIFIED.

RELATION OF WATER MAINS TO SEWERS:

LATERAL SEPARATION OF SEWERS AND WATER MAINS. WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWERS, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10-FOOT LATERAL SEPARATION- IN WHICH CASE:

THE WATER MAIN IS LAID IN A SEPARATE TRENCH, WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER; OR THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER WITH THE WATER MAIN LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH, AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.

CROSSING A WATER MAIN OVER/ UNDER A SEWER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER/ UNDER A SEWER, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE VERTICAL SEPARATION OF THE WATER MAIN IS AT LEAST 18 INCHES FROM THE TOP/ BOTTOM OF THE SEWER, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT AN 18 INCH VERTICAL SEPARATION- IN WHICH CASE BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.

TRAFFIC CONTROL

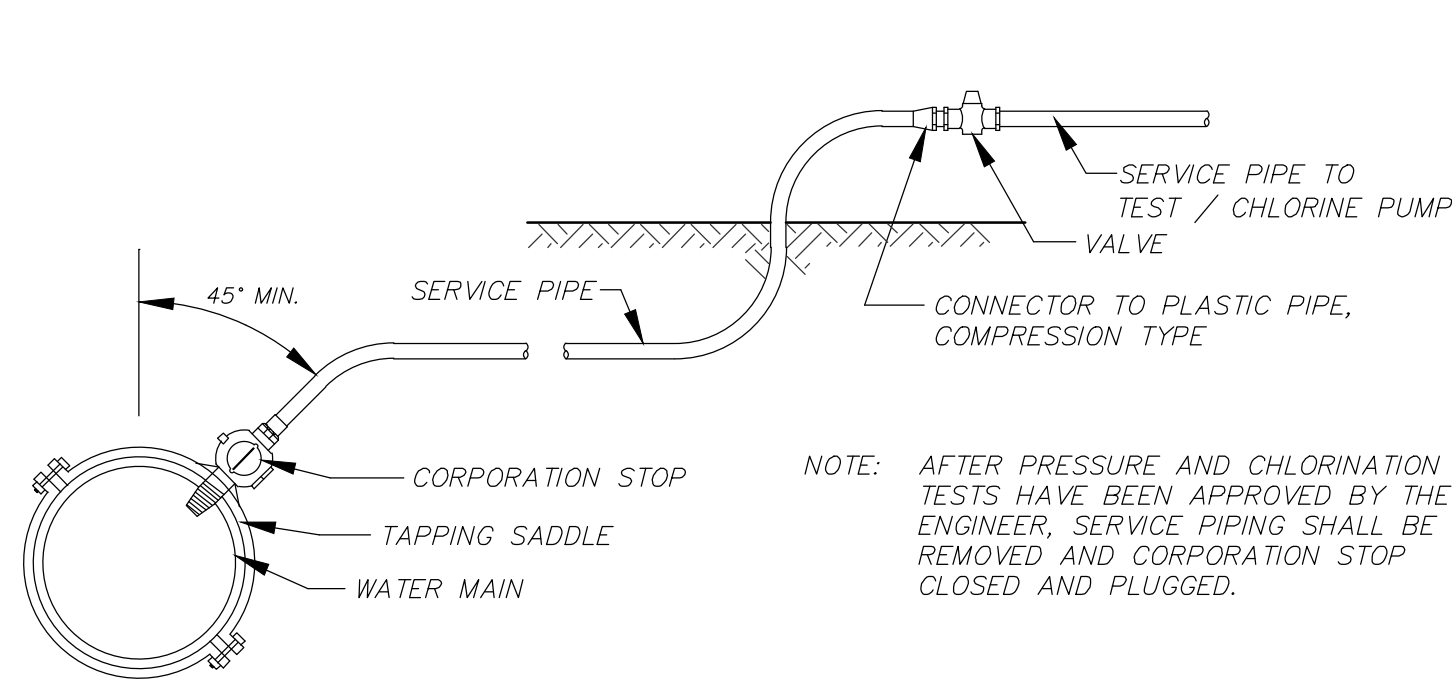
- ALL TRAFFIC CONTROL PROCEDURES AND DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION PUBLISHED BY THE U.S. DEPT. OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION. A COPY OF THE MUTCD CAN BE FOUND ON NCDOT'S WEBSITE: WWW.NCDOT.ORG

GENERAL

- EXISTING UTILITIES ARE SHOWN ON PLANS IN APPROXIMATE LOCATION TO THE EXTENT INFORMATION WAS MADE AVAILABLE TO ENGINEER. NOTIFY UTILITY LOCATING SERVICE TO MARK LOCATION OF EXISTING UTILITIES IN ADVANCE AS REQUIRED PRIOR TO COMMENCING CONSTRUCTION ACTIVITY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATION OF EXISTING UTILITIES. COST TO REPAIR THESE AND OTHER FACILITIES, IF DAMAGED, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL CONTACT THE N.C. DEPARTMENT OF TRANSPORTATION PRIOR TO ANY WORK WITHIN NCDOT RIGHTS-OF-WAY.
- CONTRACTOR SHALL PROTECT EXISTING PROPERTY CORNER MARKERS. REPLACE DISTURBED PROPERTY CORNERS BY A PROFESSIONAL LAND SURVEYOR.
- TEMPORARILY REMOVE MINOR ITEMS AS REQUIRED FOR THE INSTALLATION OF THE UTILITY. MINOR ITEMS SHALL INCLUDE, BUT NOT BE LIMITED TO, EXISTING SIGNS, MAIL BOXES, SHRUBS (UNDER 6 FT IN HEIGHT, AND TREES (UNDER 3 INCH IN DIAMETER). REINSTALL ITEMS TO THEIR ORIGINAL CONDITION. TREES AND SHRUBS SHALL BE REPLANTED OUTSIDE OF RIGHTS-OF-WAY AT A LOCATION AGREED TO BY THE PROPERTY OWNER. INCLUDE COST IN THE PER FOOT COST OF THE UTILITY BEING INSTALLED.
- CONTRACTOR SHALL BE RESPONSIBLE AND LIABLE FOR ANY DAMAGES TO EXISTING UTILITIES, STORM DRAINAGE, HEADWALLS, AND OTHER FACILITIES CAUSED BY THE CONTRACTOR OR RESULTING FROM THE CONTRACTOR'S WORK ASSOCIATED WITH ACCOMPLISHING THE PROJECT. THE CONTRACTOR SHALL CORRECT OR REPLACE THOSE UTILITIES, STORM DRAINAGE, HEADWALLS, AND OTHER FACILITIES DAMAGED OR DESTROYED DURING CONSTRUCTION WHETHER SHOWN ON THE PLANS OR NOT.
- SUPPORT EXISTING FENCES, CULVERTS, PAVEMENT, UTILITIES, CURBING AND OTHER STRUCTURES DURING CONSTRUCTION AND INCLUDE COST IN THE PER FOOT COST OF THE UTILITY BEING INSTALLED. REPAIR DAMAGED ITEMS TO THEIR ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST.
- 6 INCHES OF COMPACTED NCDOT ABC AGGREGATE SHALL BE PROVIDED FOR THE FULL WIDTH OF UNPAVED DRIVEWAYS AND ROADS DISTURBED DURING CONSTRUCTION.
- OPEN CUT PAVED DRIVEWAYS, SIDEWALKS, AND CURB AND GUTTER. REPLACE CURB AND GUTTER AND SIDEWALK WITH NEW TO MATCH THE EXISTING CROSS SECTION. PROVIDE PAVEMENT PATCHING PER DETAILS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL UTILIZE ANY AND ALL CONSTRUCTION METHODS, INCLUDING INCIDENTAL STONE, AS NECESSARY TO MAINTAIN INGRESS AND EGRESS TO ALL PROPERTIES AT ALL TIMES DURING THE CONSTRUCTION PERIOD EXCEPT DURING THE TIME PERIOD REQUIRED FOR EXCAVATION, PIPE LAYING, AND BACKFILLING.
- CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION AND SIZE OF ALL EXISTING UTILITIES A MINIMUM OF 300 FEET IN ADVANCE OF PIPE LAYING ACTIVITIES. NOTIFY THE ENGINEER IMMEDIATELY IF A POTENTIAL CONFLICT ARISES BETWEEN THE EXISTING AND PROPOSED UTILITIES.
- CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF NORFOLK SOUTHERN'S NSCE-8 SPECIFICATIONS.
- PIPELINE AND CROSSING TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH LAST APPROVED AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION SPECIFICATIONS FOR PIPELINES CONVEYING FLAMMABLE AND NON-FLAME SUBSTANCES.
- BLASTING NOT PERMITTED.

WASTEWATER DISPOSAL:

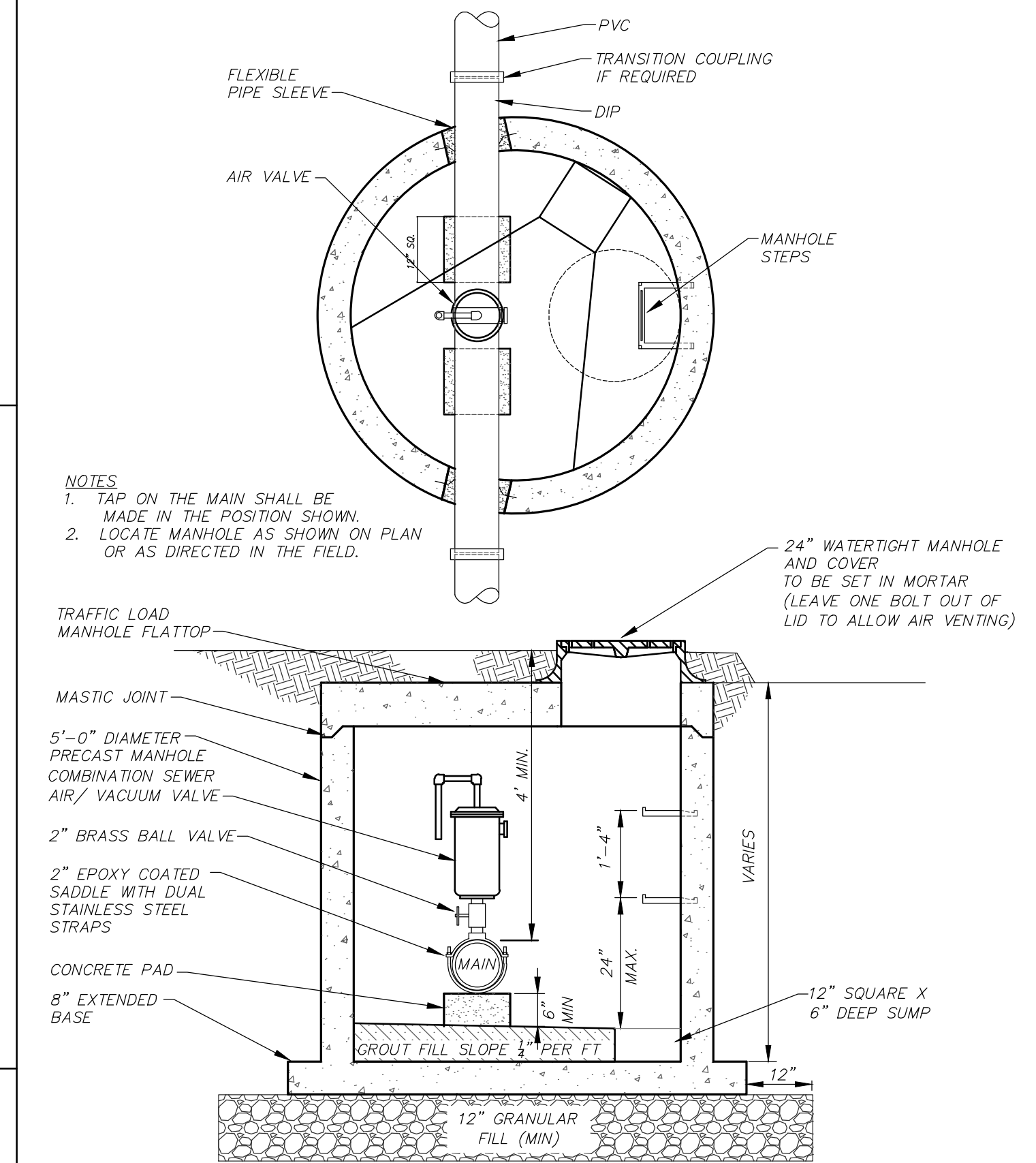
- ALL SEWAGE REMAINING IN ABANDONED PORTIONS OF EXISTING FORCE MAINS SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH NCDOT- DIVISION OF WATER QUALITY REGULATIONS.
- THE ABANDONED PORTIONS OF THE FORCE MAINS SHALL BE THOROUGHLY FLUSHED BY PUMPING POTABLE WATER AT A MINIMUM VELOCITY OF 2 FEET PER SECOND THROUGH THE PIPE. ALL WATER RESULTING FROM FLUSHING OPERATIONS SHALL BE DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED ABOVE FOR RAW SEWAGE. THE TOTAL VOLUME OF FLUSHING WATER SHALL BE AT LEAST TWO (2) TIMES THE VOLUME OF THE SECTION OF FORCE MAIN BEING FLUSHED. EACH SECTION OF SEWER FORCE MAIN SHALL BE INSTALLED, TESTED, AND ACCEPTED PRIOR TO BEING PLACED IN SERVICE. CONTRACTOR SHALL COORDINATE TIE-INS AND LINE ABANDONMENTS WITH OWNER AND ENGINEER. WHEN PERFORMING TIE-INS TO EXISTING FORCE MAINS, CONTRACTOR SHALL FULLY CONTAIN AND REMOVE FROM SITE ALL SEWAGE IN ACCORDANCE WITH NCDOT- DIVISION OF WATER QUALITY REGULATIONS.



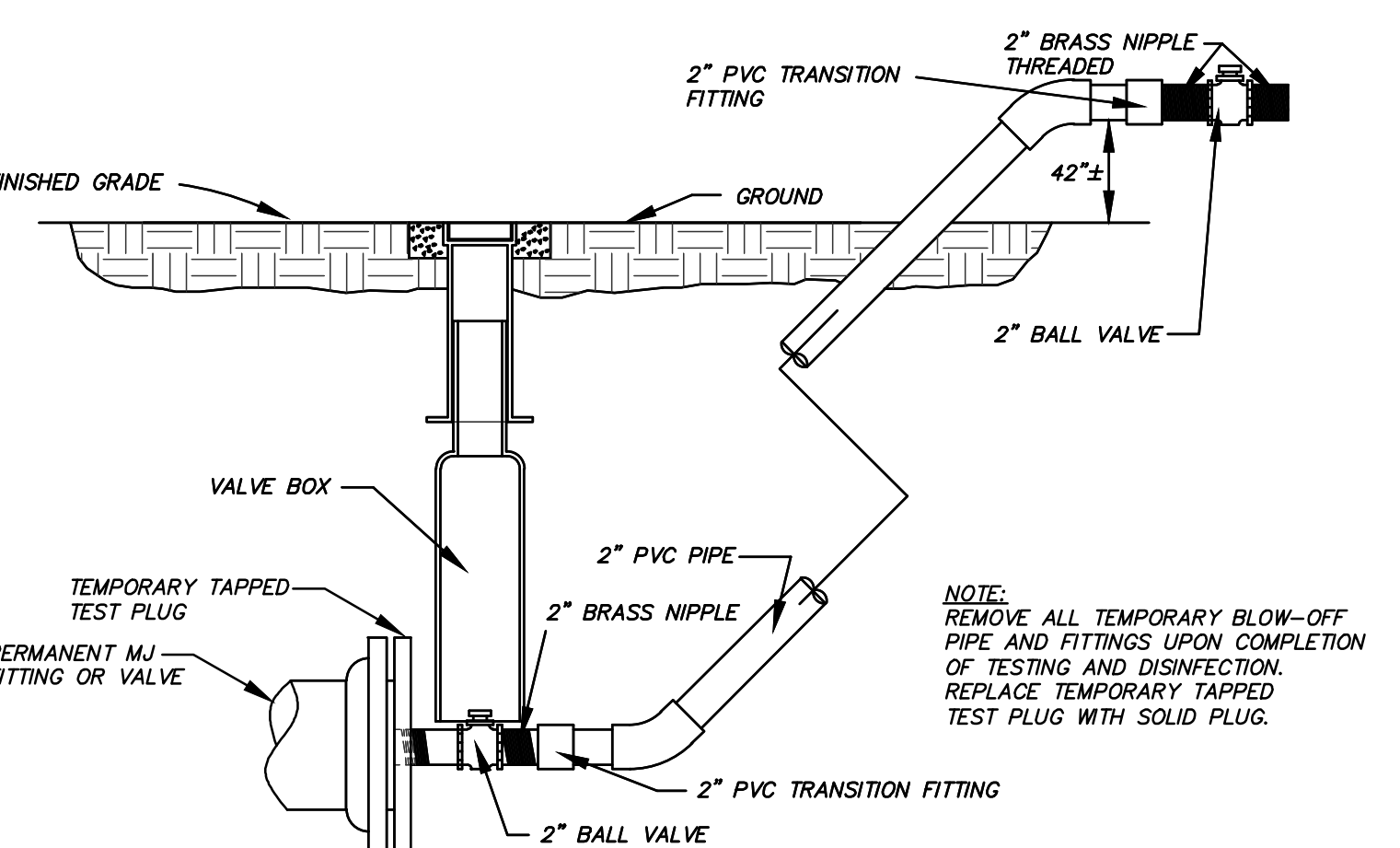
1 11 TEMPORARY PRESSURE TEST/ CHLORINATION/ BLOW OFF CONNECTION NOT TO SCALE

BEND TYPE	ANGLE (DEG)	DIAMETER (IN)	BASE RESTRAINT (FT)	POLY-WRAPPED RESTRAINT (FT)
HORIZONTAL AND VERTICAL BEND UP	11.25	4	2	3
	22.5	4	5	6
	30	4	6	8
	45	4	10	12
	60	4	14	16
	90	4	24	28
	11.25	6	3	4
	22.5	6	7	8
	30	6	9	11
	45	6	14	17
	60	6	19	23
	90	6	33	40
VERTICAL BEND DOWN	11.25	8	4	5
	22.5	8	9	10
	30	8	11	14
	45	8	18	21
	60	8	25	30
	90	8	43	50
	11.25	10	5	6
	22.5	10	10	12
	30	10	14	17
	45	10	21	26
	60	10	30	36
	90	10	52	62
TEE	11.25	12	12	14
	22.5	12	16	19
	30	12	16	19
	45	12	25	30
	60	12	35	42
	90	12	60	70
	11.25	4	4	6
	22.5	4	8	12
	30	4	11	16
	45	4	17	24
	60	4	24	34
	90	4	41	50
REDUCER	11.25	6	8	8
	22.5	6	12	17
	30	6	16	22
	45	6	24	35
	60	6	34	48
	90	6	59	84
	11.25	8	7	11
	22.5	8	15	22
	30	8	20	29
	45	8	31	45
	60	8	44	62
	90	8	76	108
DEAD END	11.25	10	9	13
	22.5	10	18	26
	30	10	25	35
	45	10	38	54
	60	10	53	75
	90	10	92	131
	11.25	12	11	15
	22.5	12	21	30
	30	12	29	41
	45	12	44	63
	60	12	62	88
	90	12	107	153
N/A	N/A	4	35	50
	N/A	6	52	75
	N/A	8	70	95
	N/A	10	85	122
	N/A	12	101	144
	N/A	4x1	13	19
	N/A	4x2	13	19
	N/A	6x4	30	43
	N/A	8x6	32	45
	N/A	10x4	74	106
	N/A	10x6	58	80
	N/A	10x8	31	44
N/A	12x4	93	133	
N/A	12x6	78	111	
N/A	12x10	31	45	
N/A	4	41	50	
N/A	6	59	84	
N/A	8	76	108	
N/A	10	92	131	
N/A	12	107	153	

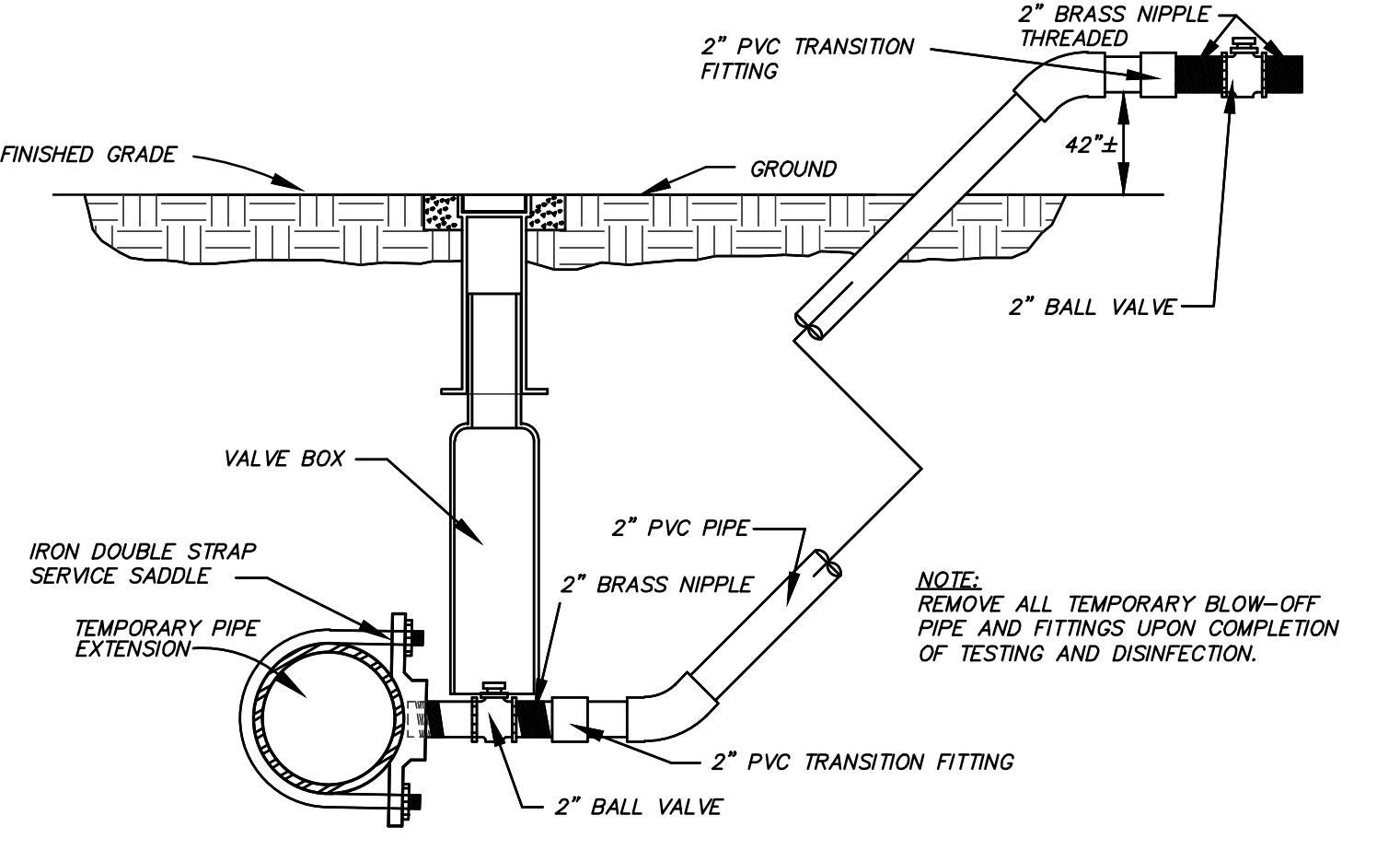
2 11 PIPE RESTRAINT DETAIL NOT TO SCALE



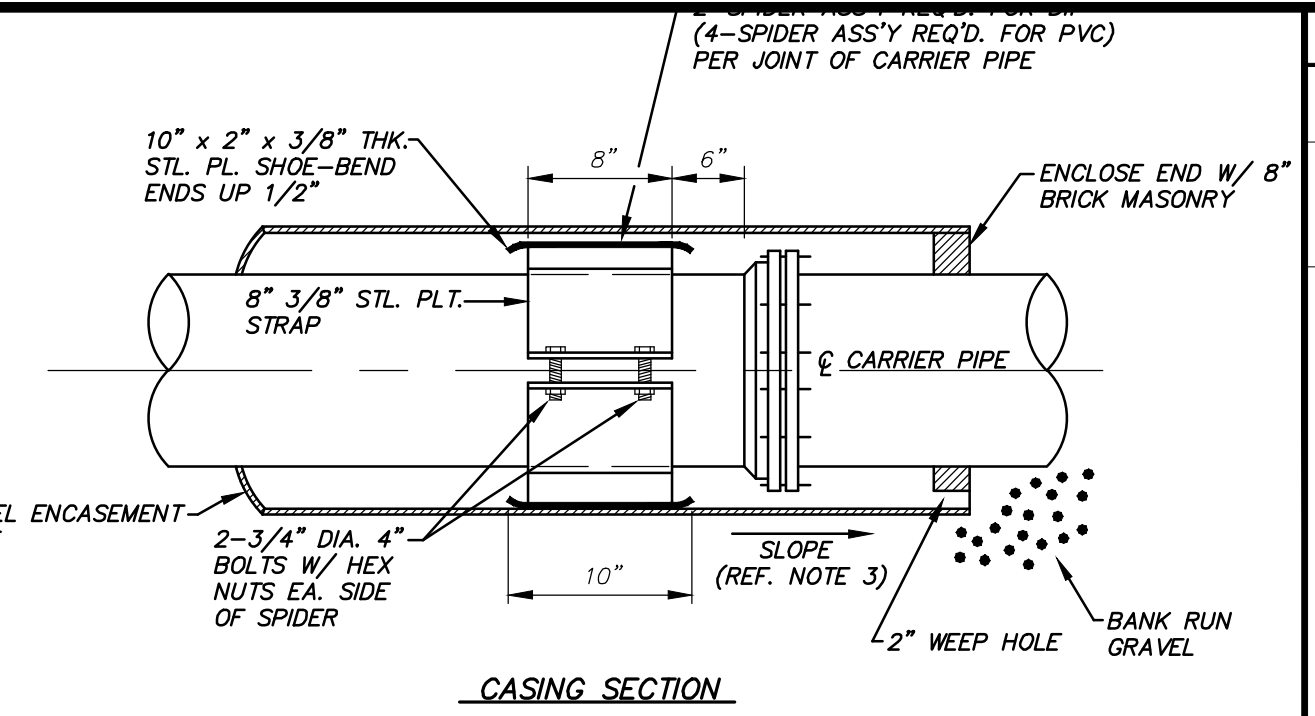
3 11 AUTOMATIC COMBINATION SEWER AIR/ VACUUM VALVE W/ VAULT NOT TO SCALE



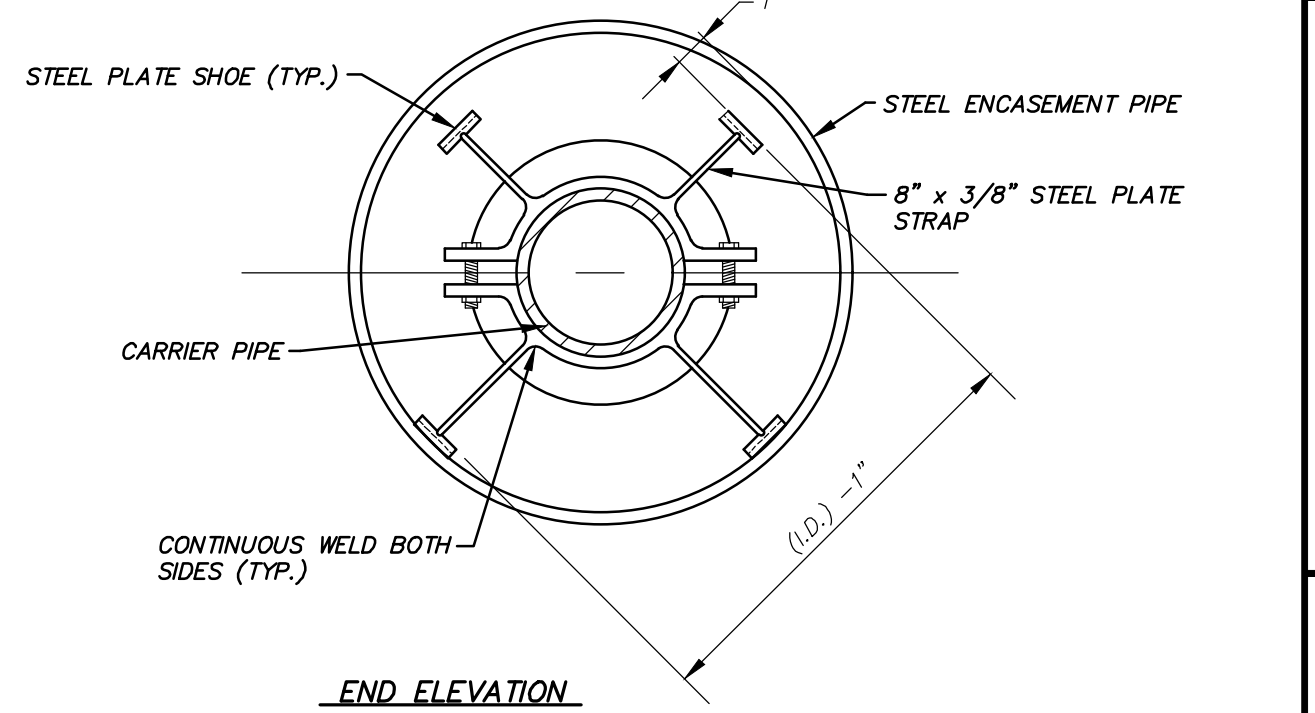
4 11 TEMPORARY 2" BLOW OFF VALVE CONNECTED TO TEMPORARY TAPPED TEST PLUG NOT TO SCALE



5 11 TEMPORARY 2" BLOW OFF VALVE CONNECTED TO TEMPORARY PIPE EXTENSION NOT TO SCALE



6 31 PIPE ENCASMENT DETAIL NOT TO SCALE



7 11 TYPICAL CASING VENT DETAIL NOT TO SCALE

REVISIONS:

NO.	DATE	DESCRIPTION	REV.

City of Washington
NORTH CAROLINA

GENERAL NOTES/ MISC. DETAILS

CITY OF WASHINGTON
BEAUFORT COUNTY BRIDGE NO. 3
PIPELINE RELOCATION

BEAUFORT COUNTY
NORTH CAROLINA

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17895

Date: 3/12/2021

Survey - Draft **JML**
Design **FLS** Check **FLS**

Project No. **2018047**
Drawing No. **W-3823**
Scale: **AS SHOWN**

Sheet No. **11** of 12

