

# STATE OF MAINE DEPARTMENT OF TRANSPORTATION



## CUMBERLAND CUMBERLAND COUNTY EAST BRIDGE STATE PROJECT NO. 22668.00 BRIDGE NO. 6553

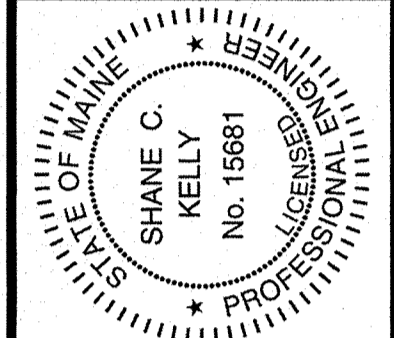
### PLAN LEGEND

Town, County, State	-----	Catch Basins	Existing	Proposed
Property Lines	-----	Manholes	Existing	Proposed
R/W Lines-Existing	-----	Proposed Underdrain	----->	
R/W Lines-Proposed	-----	Proposed Ditch	----->	
Culvert-Existing	=====	Existing Ditch	----->	
Culvert-Proposed	=====	Utility Poles	Existing	Proposed
Curbing	Existing Proposed	Fire Hydrants	Existing	Proposed
Type 1	=====	Existing Water Line	-----	
Type 3	=====	Existing San. Sewer	-----	
Type 5	=====	Existing San. Sewer Manhole	⊙	
Outline of Bodies of Water	-----	Guardrail-Existing	-----	
Exposed Bedrock	-----	Guardrail-Proposed	-----	
Buildings	-----	Guardrail-Cable, Other	-----	
Trees	Conifer Deciduous	Centerline-Existing	-----	
Tree Line	-----	Centerline-Proposed	-----	
Clearing Limit Line	-----	Travelway-Existing	-----	
Railroad	-----	Travelway-Proposed	-----	
Boring	HB-XXX-###	Probe	P-#.X	
Pavement Core	● PC-#	## = Depth	X = W (Weathered Rock)	
Test Pit	■ TP-XXX-###		R (Refusal)	
			NR (No Refusal)	

### INDEX OF SHEETS

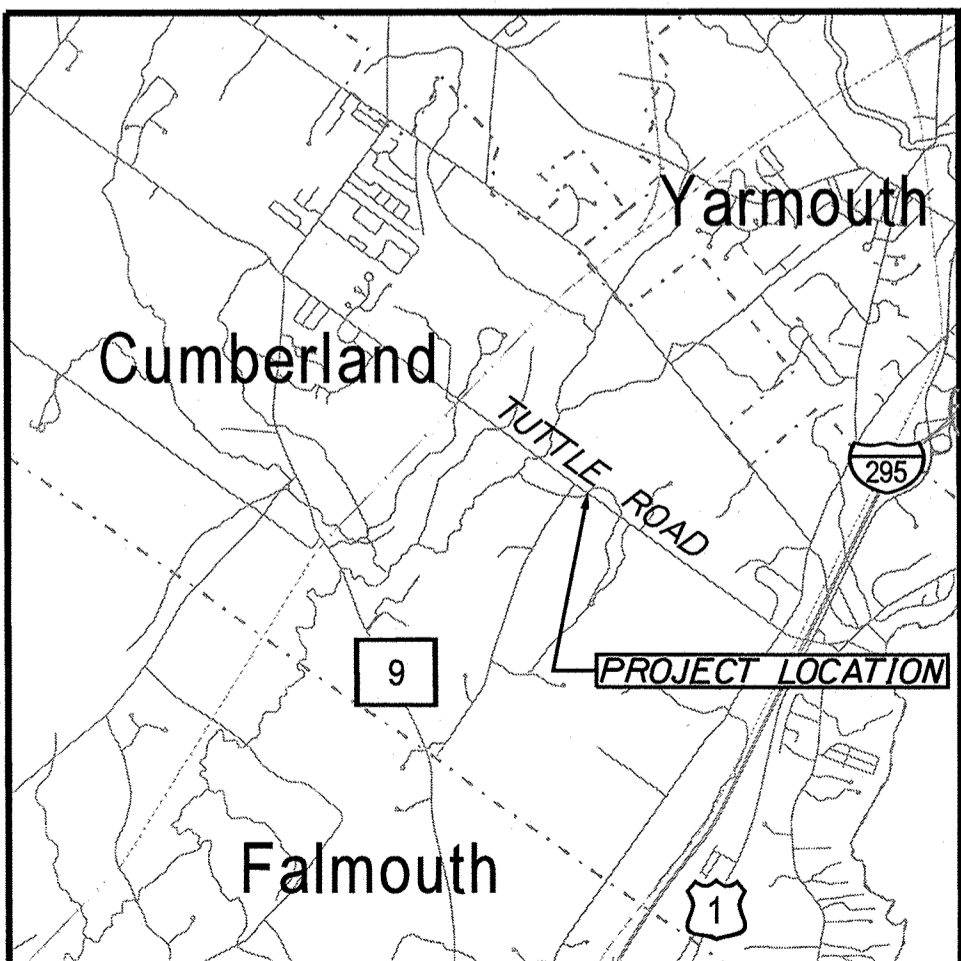
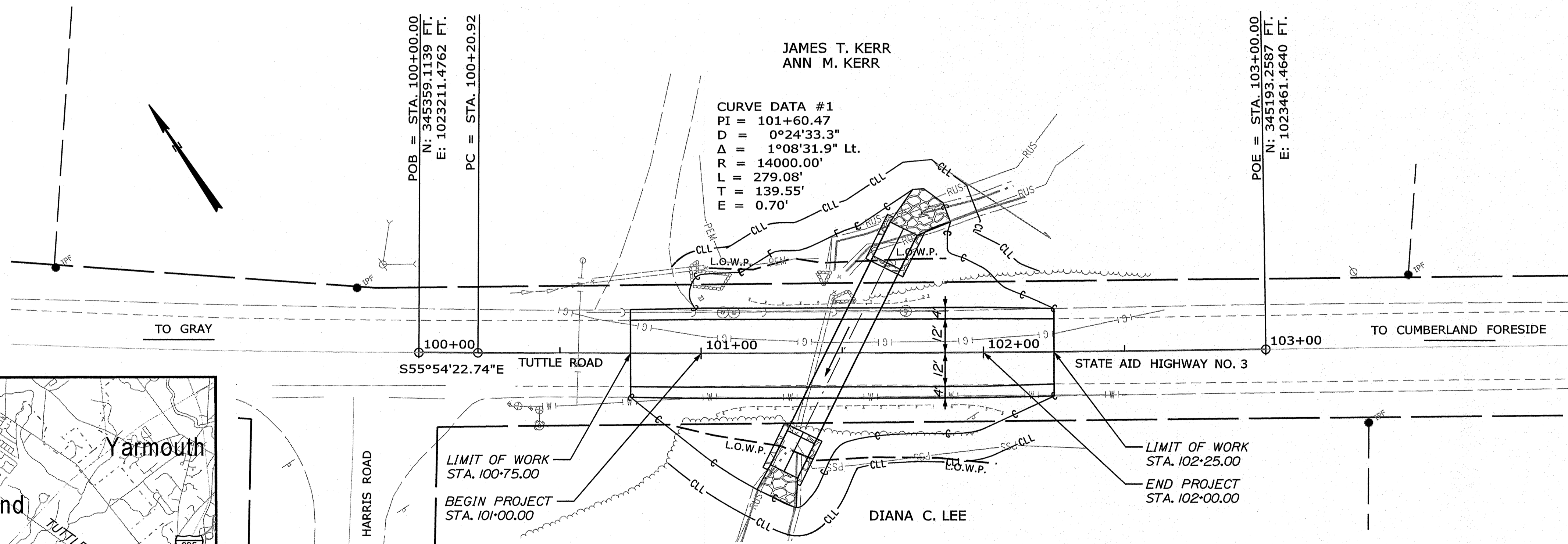
Description	Sheet No.
Title Sheet	1
General Notes, Typical Section and Estimated Quantities	2
Special Details	3
Boring Location Plan and Interpretive Subsurface Profile	4
Boring Logs	5
Plan and Profile	6
Cross Sections	7-10
Right of Way Map	11
Water and Sewer Force Main Replacements (By Others)	W1-W4

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER	<i>[Signature]</i>	6-20-2020
CHIEF ENGINEER	<i>[Signature]</i>	6-25-2020



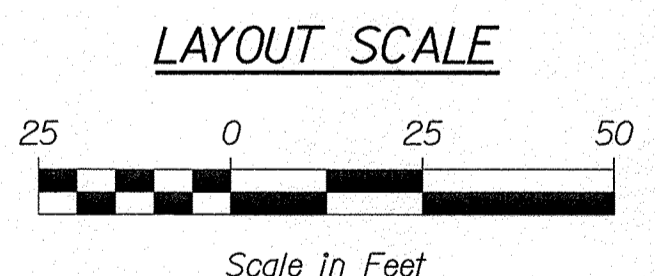
SIGNATURE	DATE
SHANE C. KELLY	06/18/2020
P.E. NUMBER	
15681	

PROGRAM	PROJECT INFORMATION
HIGHWAY	PROGRAM
LARRY HAMILTON	PROJECT MANAGER
SHANE KELLY	DESIGNER
SEBAGO TECHNICS, INC.	CONSULTANT
	PROJECT RESIDENT
	CONTRACTOR
	PROJECT COMPLETION DATE



TRAFFIC DATA	
Current (2020) AADT	3,900
Future (2032) AADT	4,370
DHV - % of AADT	16%
Design Hour Volume	748
% Heavy Trucks (AADT)	9%
% Heavy Trucks (DHV)	5%
Directional Distribution (DHV)	63%
18 kip Equivalent P 2.0	186
18 kip Equivalent P 2.5	177
Design Speed (mph)	35
Function Class	Minor Collector
Highway Corridor Priority	4

<b>PROJECT LOCATION:</b>	Located on Tuttle Road, 1.93 miles southeast of the intersection of Tuttle Road and Route 9
<b>PROGRAM AREA:</b>	HIGHWAY PROGRAM
<b>SCOPE OF WORK:</b>	LARGE CULVERT REPLACEMENT



WIN 22668.00 BRIDGE NO. 6553

CUMBERLAND  
TUTTLE ROAD  
TITLE SHEET

SHEET NUMBER  
**1**  
OF 11

Date: 6/18/2020

Username: skelly

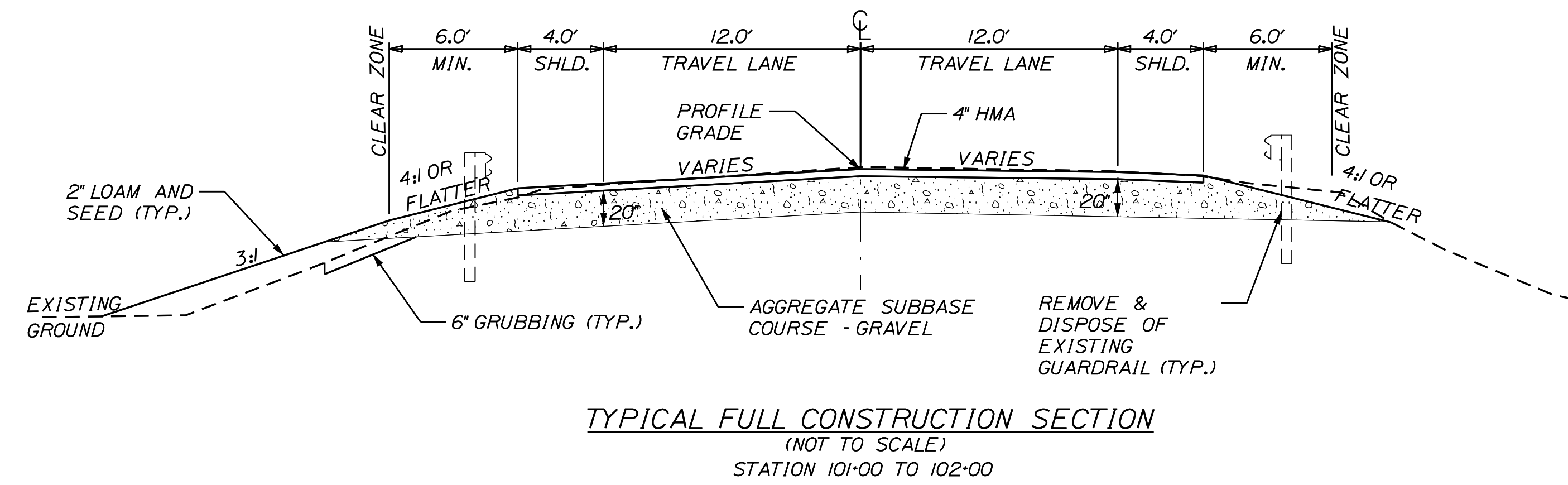
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**GENERAL NOTES**

1. PAVEMENT THICKNESSES SHOWN ON THE TYPICAL SECTIONS ARE INTENDED TO BE NOMINAL.
2. CLEARING LIMITS SHALL BE 10' BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPES LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE RESIDENT.
3. ALL CLEARING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE. THE ACTUAL LINES FOR CLEARING SHALL BE ESTABLISHED IN THE FIELD BY THE CONTRACTOR AS INDICATED ON THE PLANS AND APPROVED BY THE RESIDENT.
4. GRUBBING IN FILL AREAS HAS BEEN SHOWN ON THE CROSS SECTIONS AND THE QUANTITIES NOTED. THESE LIMITS ARE APPROXIMATE AND HAVE BEEN USED FOR ESTIMATING PURPOSES ONLY. ACTUAL GRUBBING LIMITS MAY VARY BASED ON FIELD CONDITIONS AS DIRECTED BY THE RESIDENT.
5. ALL INSLOPE AND DITCHES IN CUT AREAS SHALL BE GRADED AS SHOWN ON THE TYPICALS OR FLATTER, OR AS DIRECTED BY THE RESIDENT.
6. THE CONTRACTOR SHALL PLACE SUITABLE EXISTING OR OTHER MATERIAL ACCEPTABLE TO THE RESIDENT ON ALL PAVEMENT EDGES TO ALLOW A DROP OFF NO GREATER THAN THE SURFACE PAVEMENT THICKNESS. THE MATERIAL SHALL BE GRADED TO MATCH EXISTING IN-SLOPE OR AS DIRECTED BY THE RESIDENT BEFORE SURFACE IS PLACED. THE CONTRACTOR WILL BE PAID UNDER APPROPRIATE EQUIPMENT RENTAL ITEMS. BORROW IS NOT AUTHORIZED UNTIL ALL ACCEPTABLE WASTE MATERIAL HAS BEEN UTILIZED. SEED AND MULCH WILL BE PAID FOR AT THE CONTRACT UNIT PRICE.
7. DRIVEWAY FILL SIDE SLOPES SHALL BE THE SAME AS THE NON-GUARDRAIL FILL SLOPES UNLESS OTHERWISE NOTED ON THE PLANS.
8. ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN ACCEPTABLE WASTE AREAS REVIEWED BY THE RESIDENT. GRADING, SEEDING AND MULCHING OF WASTE AREAS SHALL BE CONSIDERED INCIDENTAL.
9. GRANULAR BORROW USED TO BACKFILL MUCK EXCAVATION OR IN LOW WET AREAS TO 1 FOOT ABOVE WATER LEVEL OR OLD GROUND SHALL MEET REQUIREMENTS FOR GRANULAR BORROW MATERIAL FOR UNDERWATER BACKFILL AS SPECIFIED IN STANDARD SPECIFICATION 703.19.
10. CROSS SLOPES FOR NORMAL AND SUPERELEVATED SECTIONS WILL BE STRAIGHT UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.
11. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.
12. ALL EXISTING GUARDRAIL REMOVED AND NOT REUSED ON THE PROJECT WILL BECOME PROPERTY OF THE CONTRACTOR. REMOVAL AND DISPOSAL SHALL BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.
13. LOAM HAS BEEN ESTIMATED FOR DISTURBED LAWN AREAS. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS NOTED ON THE PLANS OR DESIGNATED BY THE RESIDENT.
14. SEEDING METHOD NO. 2 SHALL BE UTILIZED ON ALL AREAS.
15. LOAM SHALL BE PLACED AT A NOMINAL DEPTH OF 2 INCHES IN ALL AREAS.
16. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING MAILBOXES TO ENSURE MAIL WILL BE DELIVERABLE. PAYMENT FOR THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
17. ANY DAMAGE TO THE SLOPES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.
18. THE PROJECT GEOTECHNICAL REPORT TITLED "GEOTECHNICAL DESIGN REPORT FOR THE CONSTRUCTION OF: EAST BRIDGE", SOILS REPORT 2020 -19, JUNE 17, 2020 CAN BE ACCESSED AT THE MAINEDOT WEBSITE.
19. GEOTECHNICAL INFORMATION FURNISHED OR REFERRED TO IN THE BID DOCUMENTS IS FOR THE USE OF THE BIDDERS. NO ASSURANCE IS GIVEN THAT THE INFORMATION OR INTERPRETATIONS WILL BE REPRESENTATIVE OF THE ACTUAL SUBSURFACE CONDITIONS THROUGHOUT THE CONSTRUCTION SITE. MAINEDOT WILL NOT BE RESPONSIBLE FOR ANY INTERPRETATIONS OR CONCLUSION DRAWN FROM THE GEOTECHNICAL INFORMATION. THE BORING LOGS PROVIDED IN THE BID DOCUMENTS PRESENT FACTUAL AND INTERPRETIVE SUBSURFACE INFORMATION COLLECTED AT DISCRETE LOCATIONS. DATA PROVIDED MAY NOT BE REPRESENTATIVE OF THE SUBSURFACE CONDITIONS BETWEEN BORING LOCATIONS.
20. AREAS ON THE PROJECT REQUIRING FILL WILL COME FROM SUITABLE SITES SUCH AS EXCAVATION, DITCH AND INSLOPE OR EQUIPMENT RENTAL AREAS.
21. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.
22. "UNDETERMINED LOCATIONS" SHALL BE DETERMINED BY THE RESIDENT.
23. STATIONS REFERENCED ARE APPROXIMATE.
24. FINAL STRIPING FOR THE PROJECT SHALL BE DONE BY THE CONTRACTOR PER THE STRIPING LAYOUT IN THE CONTRACT DOCUMENTS OR AS PROVIDED BY THE DEPARTMENT. PAYMENT SHALL BE MADE UNDER THE APPROPRIATE CONTRACT ITEMS.
25. THE EXISTING CULVERT INDICATED ON THE PLANS SHALL BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR. THIS SHALL BE CONSIDERED INCIDENTAL TO ITEM 603.4073.

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
203.20	COMMON EXCAVATION	455	CY
203.25	GRANULAR BORROW	350	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	300	CY
403.208	HOT MIX ASPHALT 12.5 MM HMA SURFACE	44	TONS
403.213	HOT MIX ASPHALT 12.5 MM HMA BASE	74	TONS
409.15	BITUMINOUS TACK COAT	16	GAL
511.07	COFFERDAM: UPSTREAM	1	LS
511.07	COFFERDAM: DOWNSTREAM	1	LS
603.4073	128" x 83" STEEL STRUCTURAL PIPE ARCH - POLYMER COATED	96	LF
606.363	GUARDRAIL REMOVE AND DISPOSE	166	LF
610.08	PLAIN RIPRAP	45	CY
613.319	EROSION CONTROL BLANKET	10	SY
615.07	LOAM	29	CY
618.14	SEEDING METHOD NUMBER 2	5	UN
619.12	MULCH	5	UN
619.1401	EROSION CONTROL MIX	10	CY
620.58	EROSION CONTROL GEOTEXTILE	39	SY
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	450	LF
629.05	HAND LABOR, STRAIGHT TIME	10	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	10	HR
631.172	LARGE TRUCK (INCLUDING OPERATOR)	10	HR
639.19	FIELD OFFICE TYPE B	1	EA
652.312	BARRICADE TYPE III	4	EA
652.33	DRUM	50	EA
652.34	CONE	100	EA
652.35	CONSTRUCTION SIGN	350	SF
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	45	CD
652.38	FLAGGER	600	HR
652.61	STAGED CONSTRUCTION AND TRAFFIC CONTROL	1	LS
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

022668-00

WIN  
226668.00

HIGHWAY PLANS  
BRIDGE # 6553

L. HAMILTON  
PROJ. MANAGER

S. KELLY  
BY

06/18/20  
DATE

06/18/20  
DATE

15681  
SIGNATURE

06/18/2020  
P.E. NUMBER

06/18/2020  
DATE

DESIGN-DETAILED

CHECKED-REVIEWED

DESIGN-DETAILED

DESIGN-DETAILED

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

FIELD CHANGES

CUMBERLAND  
TUTTLE ROAD

GENERAL NOTES, TYPICAL SECTION  
AND ESTIMATED QUANTITIES

SHEET NUMBER

2

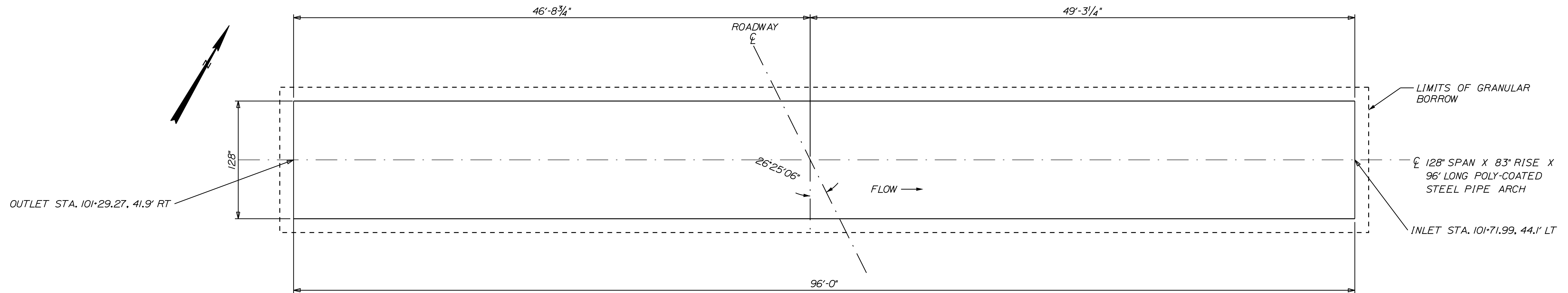
OF 11

Date: 6/18/2020

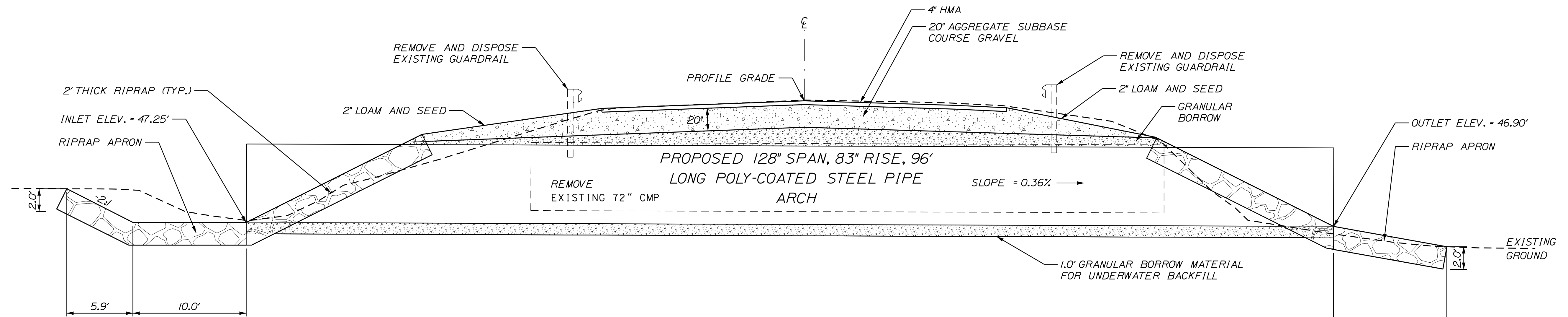
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Division: HIGHWAY

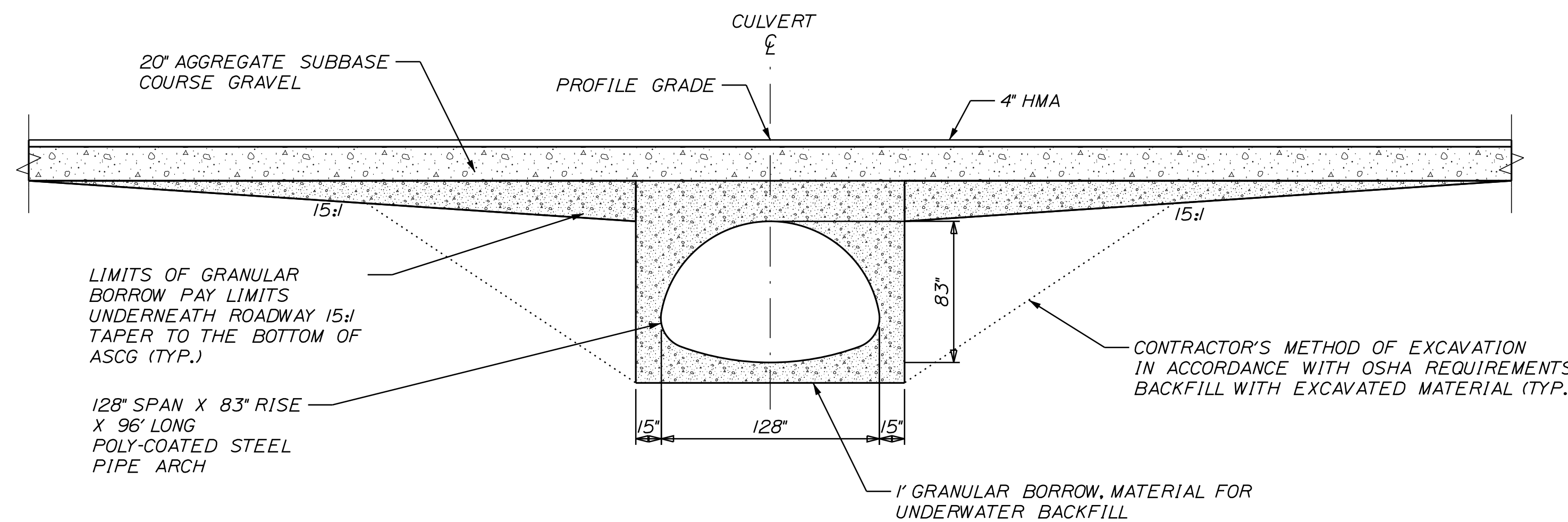
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**CULVERT PLAN**  
N.T.S.



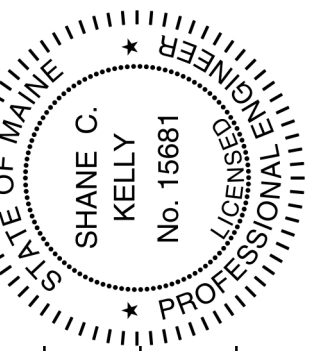
**TRANSVERSE SECTION (SKEW 26°25'06")**  
(ALONG CENTERLINE OF CULVERT) N.T.S.



**CULVERT SECTION**  
N.T.S.

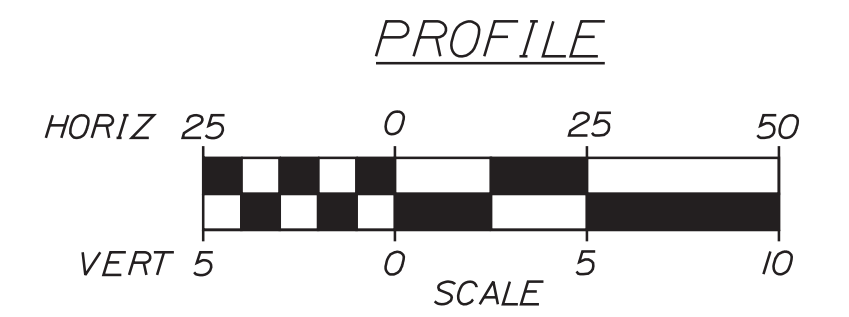
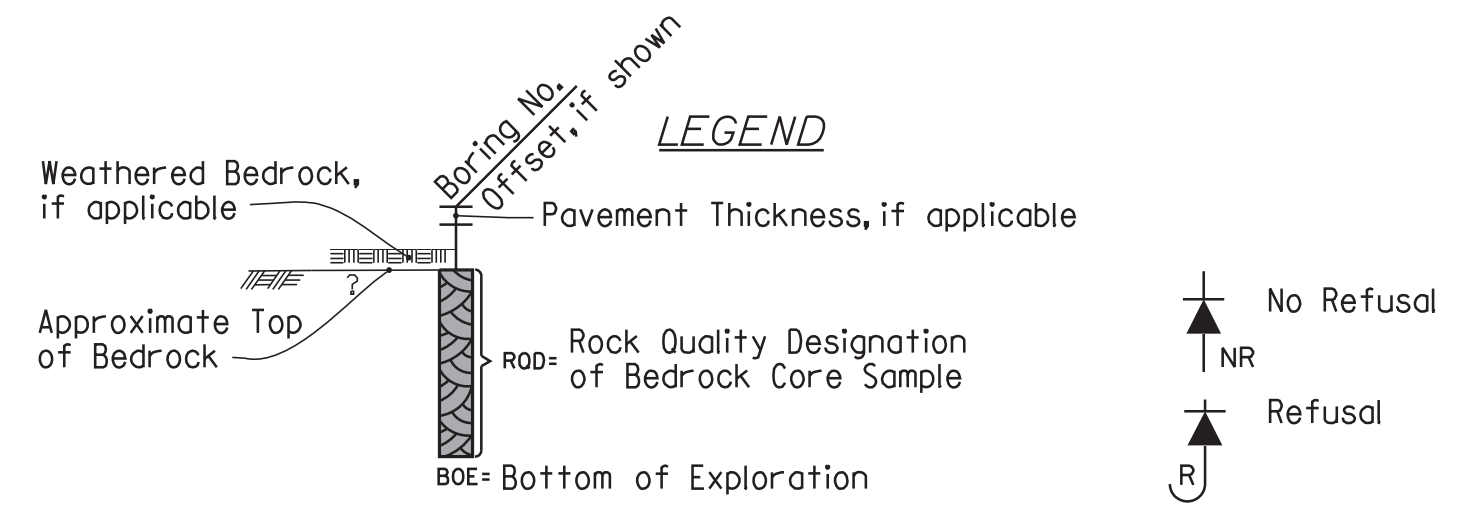
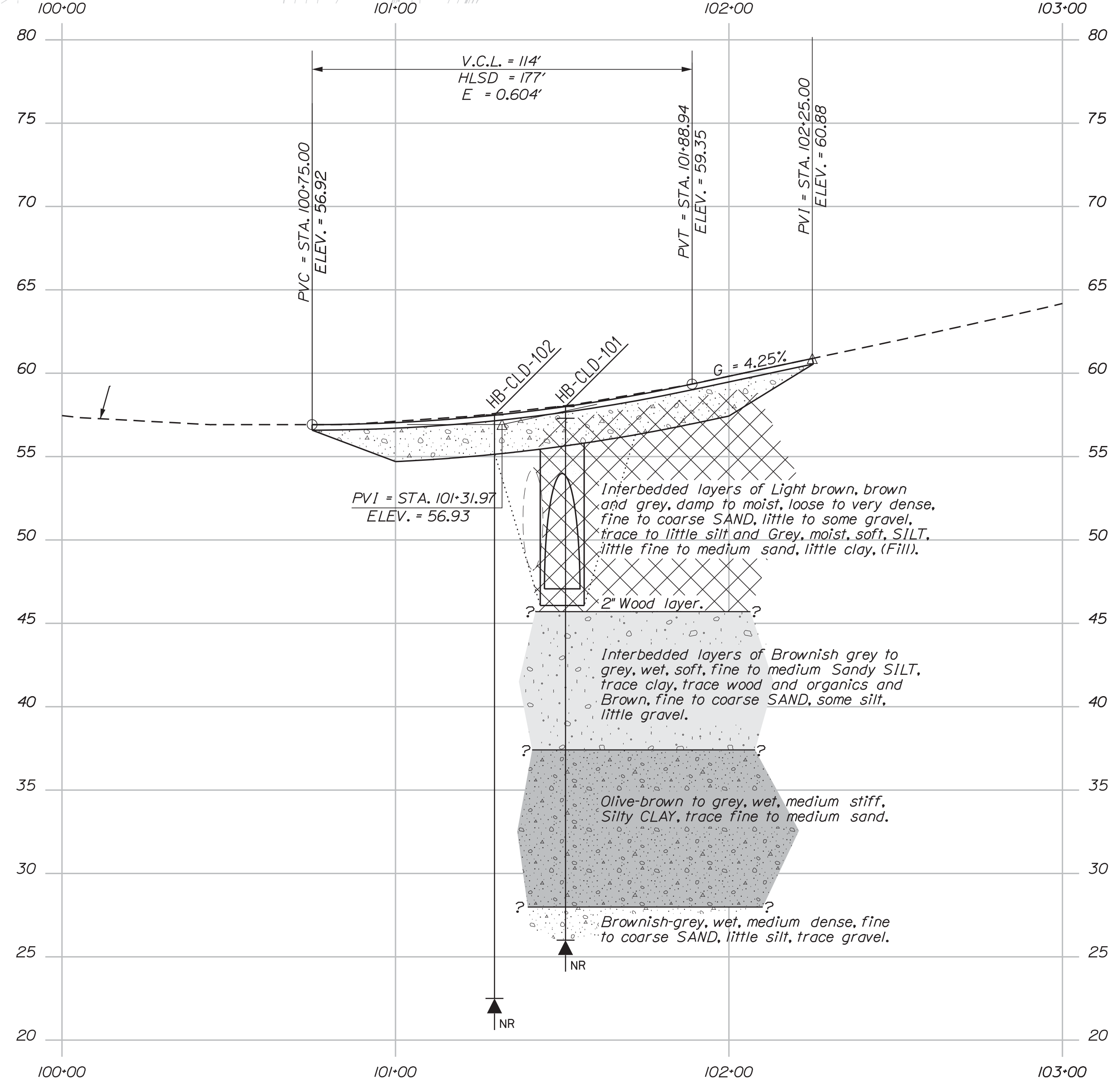
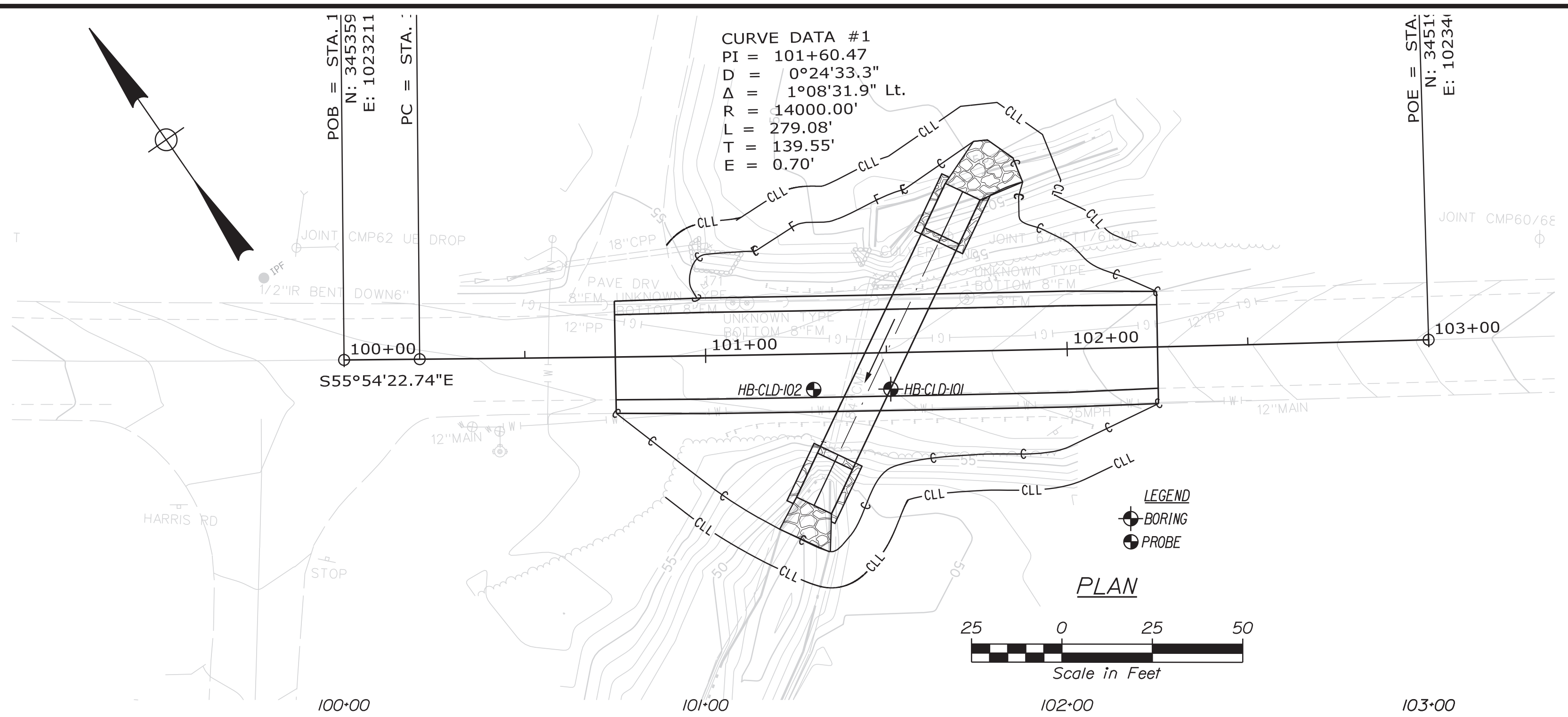
**CULVERT NOTES**

1. COFFERDAMS ARE TO BE PLACED AT BOTH THE DOWNSTREAM AND UPSTREAM ENDS OF THE STRUCTURE TO ALLOW WATER TO BE PUMPED AND REMOVED DURING CONSTRUCTION OF THE BOX CULVERT.
2. CHANNEL GRADING SHALL BE INCIDENTAL TO ITEM NO. 603.4073
3. RIPRAP WILL BE USED TO INSLOPE AROUND THE CULVERT ENDS AT BOTH THE INLET AND OUTLET. SEE PLAN AND PROFILE FOR LOCATIONS.
4. THE POLYMER-COATED STEEL PIPE ARCH SHALL BE BEDDED ON A 1 FT LAYER OF COMPACT GRANULAR BORROW, MATERIAL FOR UNDERWATER BACKFILL.



PROJ. MANAGER	L. HAMILTON	DATE	06/18/20
DESIGN DETAILED	S. KELLY	BY	S. KELLY
CHECKED/REVIEWED	B. LYON	DATE	06/18/20
DESIGNS DETAILED		SIGNATURE	
DESIGNS DETAILED		P.E. NUMBER	15681
REVISIONS 1		DATE	06/18/2020
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

CUMBERLAND  
TUTTLE ROAD  
SPECIAL DETAILS



Note: This generalized interpretive soil profile is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and have been developed by interpretations of widely spaced explorations and samples. Actual soil and bedrock transitions may vary and are probably more erratic. For more specific information refer to the exploration logs.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		022668-00		WIN 22668.00		HIGHWAY PLANS	
		Cody A. Russell		SIGNATURE		P.E. NUMBER	
		T. WHITE		15866		6/24/2020	
DATE		MAY 2020		DATE		DATE	
BY		C. RUSSELL		DATE		DATE	
DESIGN/DETAILED		C. RUSSELL		DATE		DATE	
CHECKED/REVIEWED		T. WHITE		DATE		DATE	
DESIGN/DETAILED		C. RUSSELL		DATE		DATE	
REVISIONS 1		DATE		DATE		DATE	
REVISIONS 2		DATE		DATE		DATE	
REVISIONS 3		DATE		DATE		DATE	
REVISIONS 4		DATE		DATE		DATE	
FIELD CHANGES		DATE		DATE		DATE	
CUMBERLAND TUTTLE ROAD		BORING LOCATION PLAN & INTERPRETIVE SUBSURFACE PROFILE					
SHEET NUMBER							
4							
OF 11							

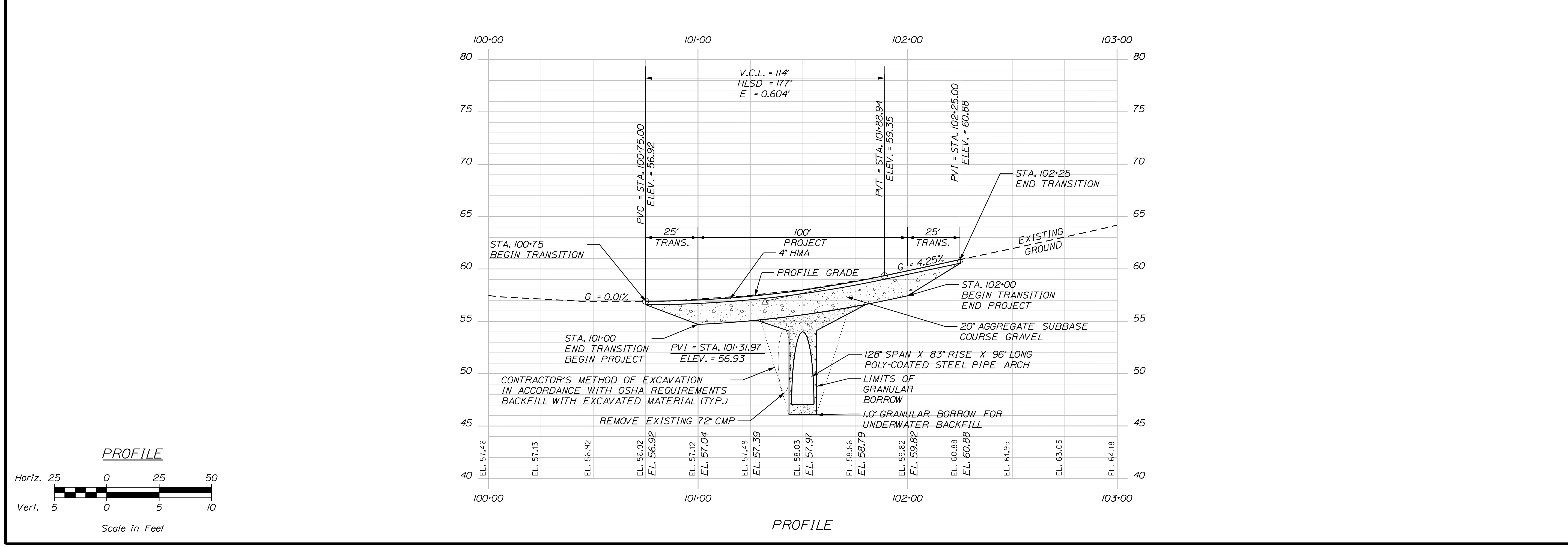
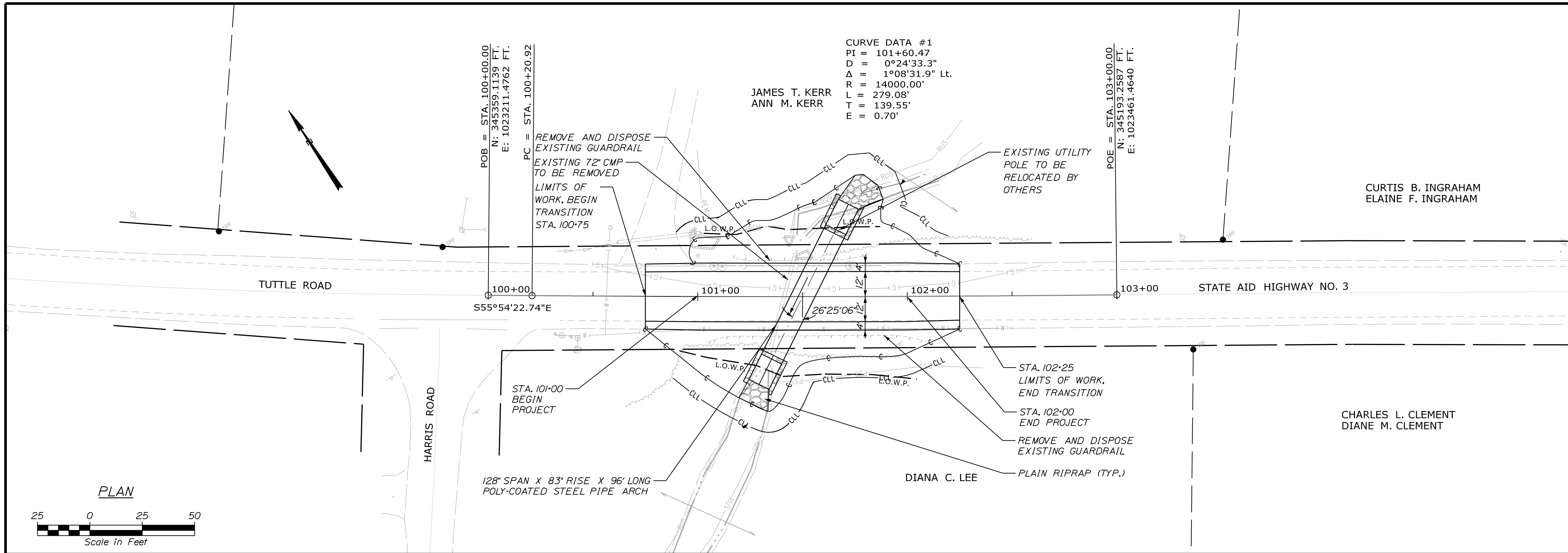


Date: 6/18/2020

Username: skelly

Division: HIGHWAY

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**STATE OF MAINE**  
**DEPARTMENT OF TRANSPORTATION**

**022668-00**  
**WIN 22668.00**  
 BRIDGE # 6553 HIGHWAY PLANS

**SHANE C. KELLY**  
 No. 15681  
 PROFESSIONAL ENGINEER

**CHARLES L. CLEMENT**  
**DIANE M. CLEMENT**

**DATE** 06/18/20  
**BY** S. KELLY, B. LYON  
**DATE** 06/18/20  
**SIGNATURE**  
**P.E. NUMBER** 15681  
**DATE** 06/18/2020

**CUMBERLAND**  
**TUTTLE ROAD**  
**PLAN AND PROFILE**

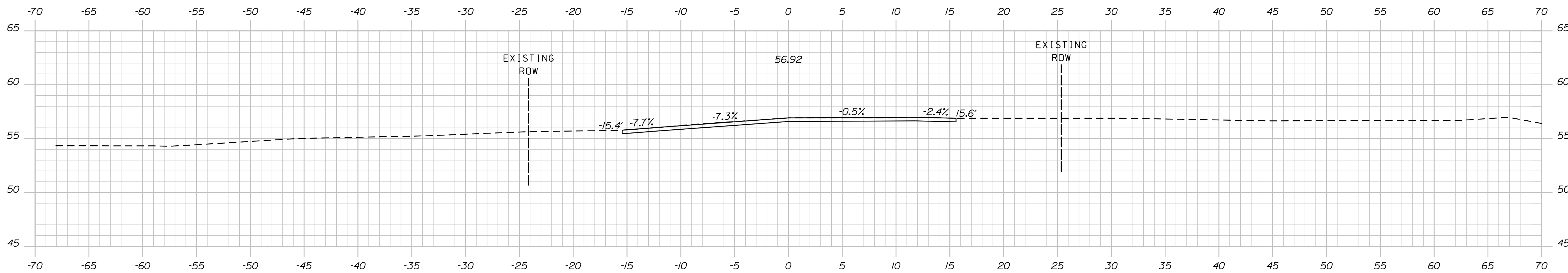
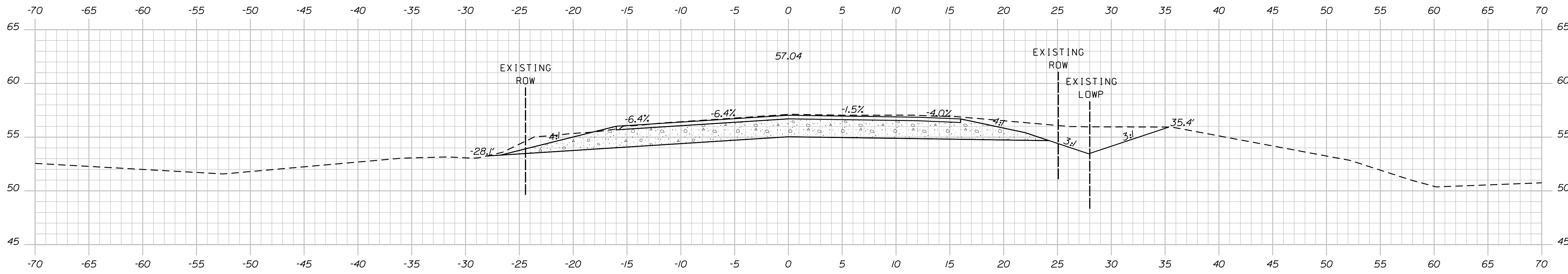
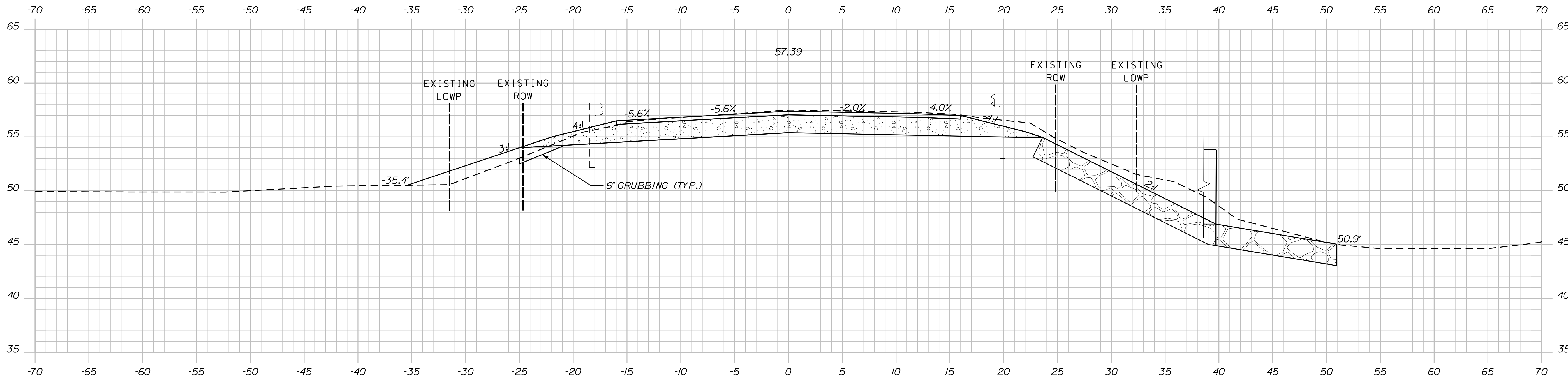
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Date: 6/18/2020

Username: skelly

Division: HIGHWAY

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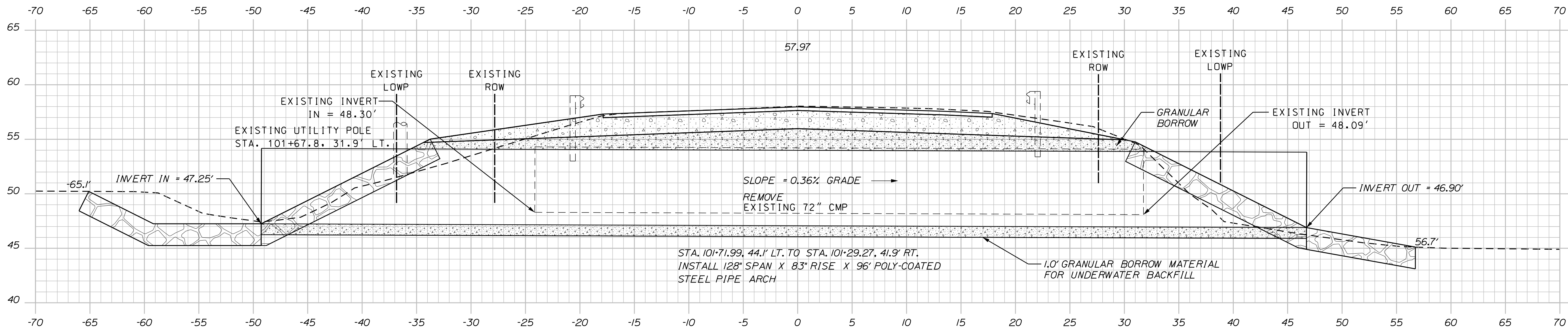
STATE OF MAINE DEPARTMENT OF TRANSPORTATION		022668.00		WIN		HIGHWAY PLANS	
SHANE C. KELLY No. 15681 PROFESSIONAL ENGINEER LICENSED IN MAINE		SIGNATURE		P.E. NUMBER		DATE	
L. HAMILTON		BY		DATE		FIELD CHANGES	
DESIGN-DETAILED		S. KELLY		06/18/20			
CHECKED-REVIEWED		B. LYON		06/18/20			
DESIGN-DETAILED							
DESIGN-DETAILED							
REVISIONS 1							
REVISIONS 2							
REVISIONS 3							
REVISIONS 4							
CUMBERLAND TUTTLE ROAD		CROSS SECTIONS		SHEET NUMBER		7	
						OF 11	

Date: 6/18/2020

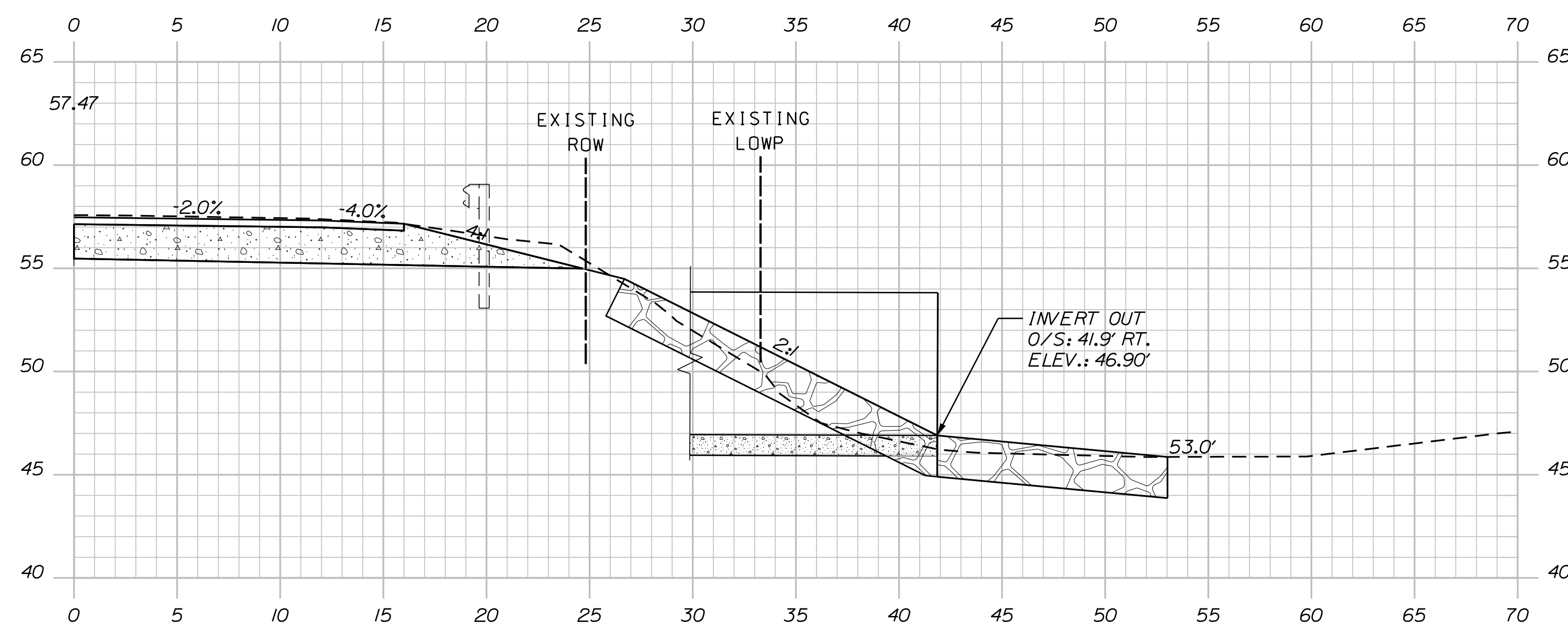
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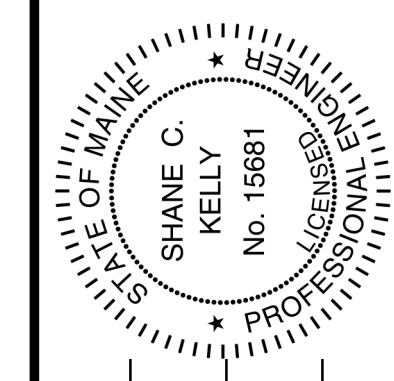


101+50.00 (SKEW 26°25'06")



101+29.27 (CULVERT OUTLET RIGHT)

STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 022668.00  
 WIN 22668.00  
 BRIDGE # 6553 HIGHWAY PLANS



SIGNATURE: [Signature]  
 P.E. NUMBER: 15681  
 DATE: 06/18/2020

PROJ. MANAGER	BY	DATE
L. HAMILTON	S. KELLY	06/18/20
CHECKED-REVIEWED	B. LYON	06/18/20
DESIGN-DETAILED		
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

CUMBERLAND  
 TUTTLE ROAD  
 CROSS SECTIONS

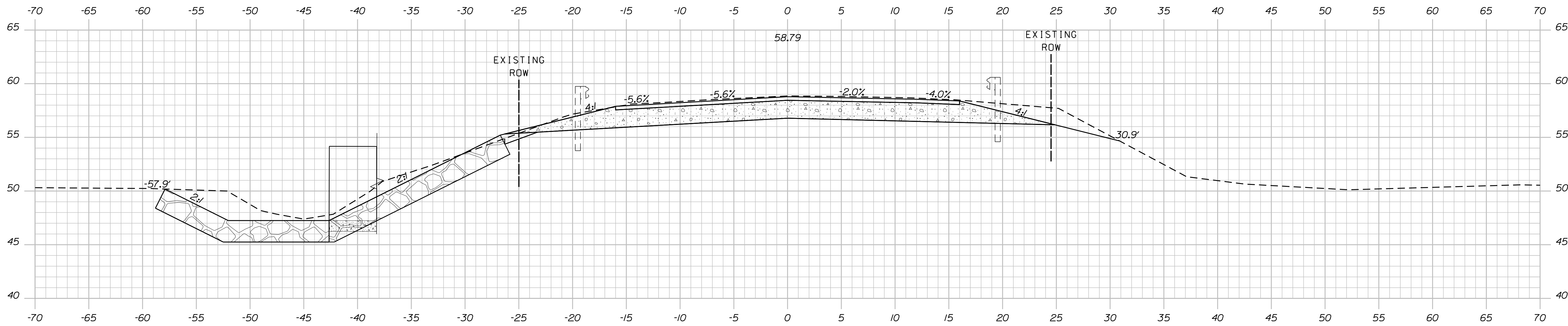
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 OF 11

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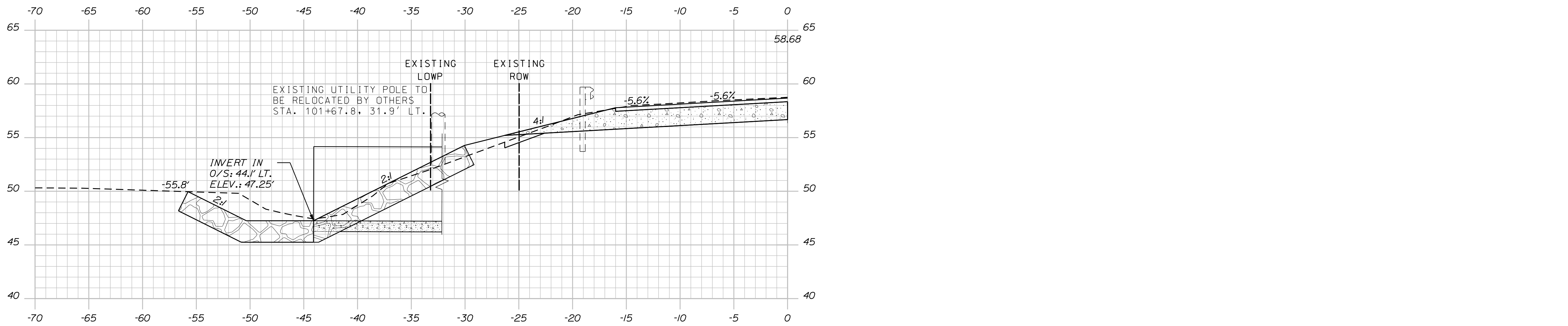
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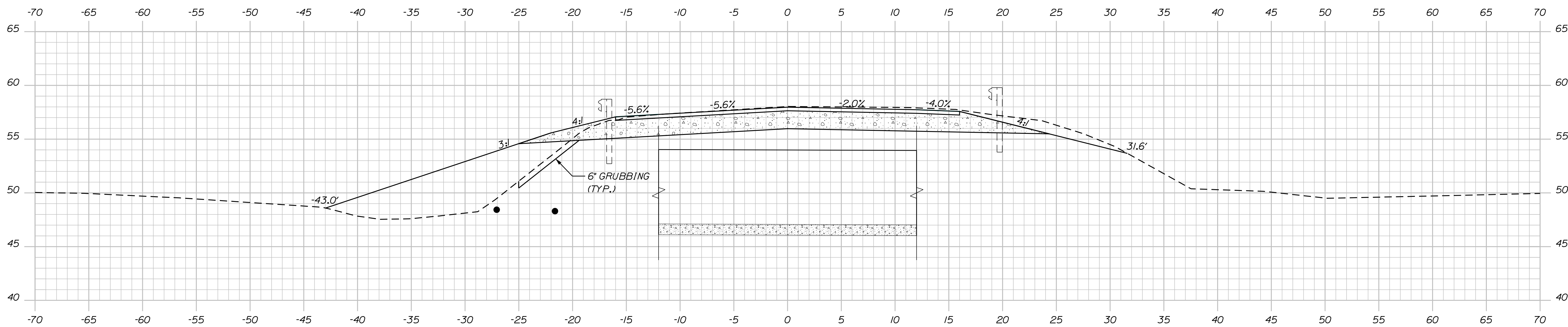
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101+75.00

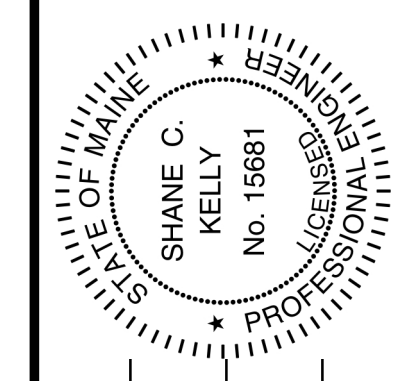


101+71.99 (CULVERT INLET LEFT)



101+50.00

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
022668.00  
WIN 22668.00  
BRIDGE # 6553  
HIGHWAY PLANS



SIGNATURE: SHANE C. KELLY  
P.E. NUMBER: 15681  
DATE: 06/18/2020

PROJ. MANAGER	BY	DATE
L. HAMILTON	S. KELLY B. LYON	06/18/20 06/18/20

DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-DETAILED	DESIGN-DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES

CUMBERLAND  
TUTTLE ROAD  
CROSS SECTIONS

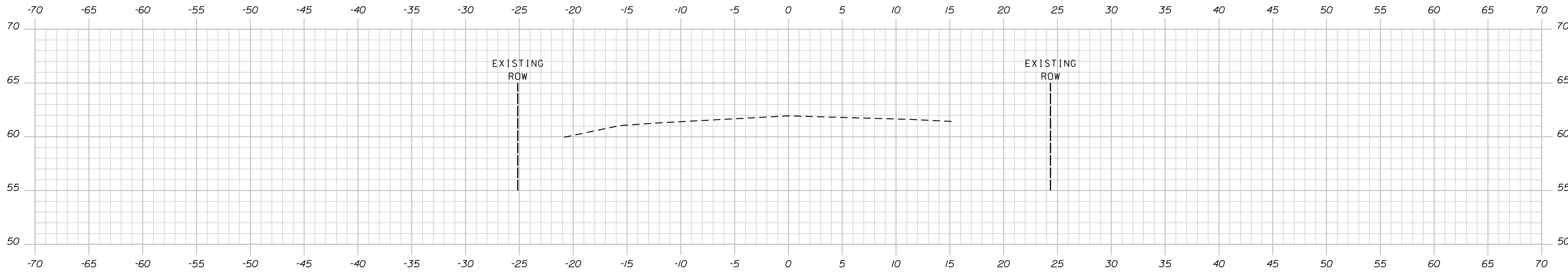
SHEET NUMBER  
**9**  
OF 11

Date: 6/18/2020

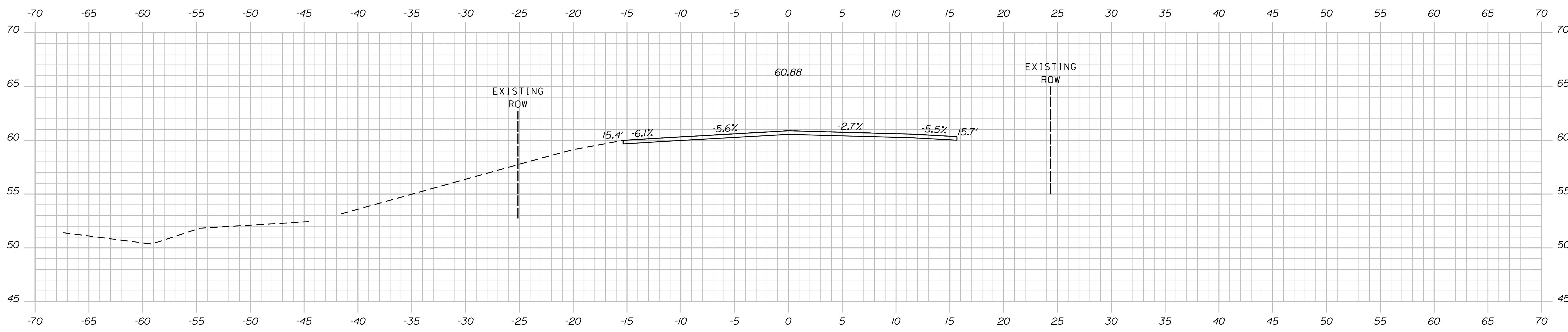
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Division: HIGHWAY

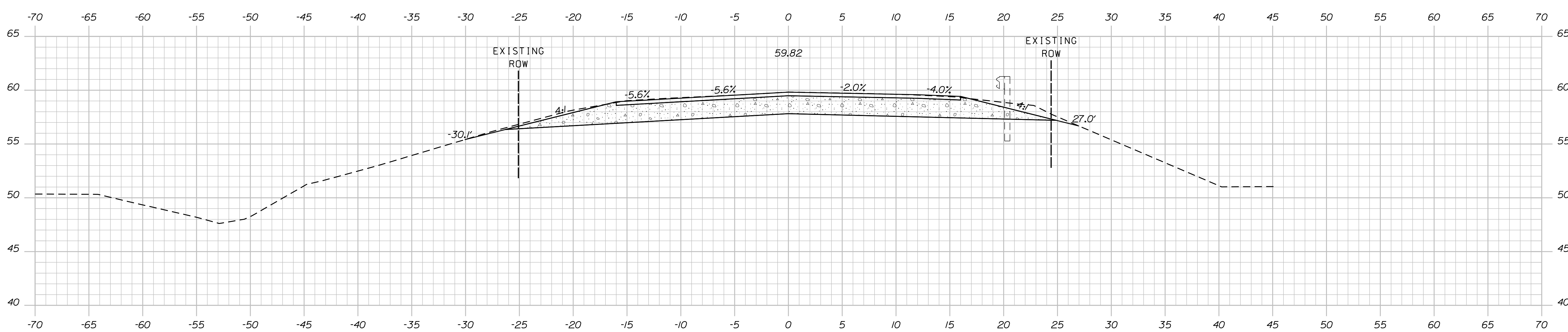
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102+50.00

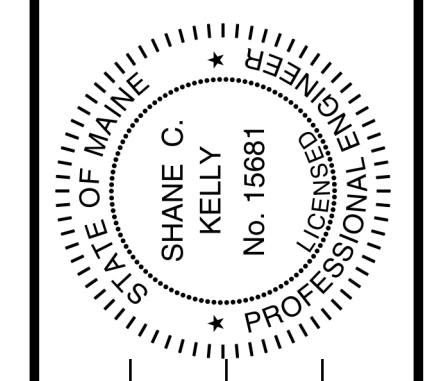


102+25.00 (LIMIT OF WORK, MATCH EXISTING, END TRANSITION)



102+00.00 (END PROJECT, BEGIN TRANSITION)

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
022668.00  
WIN  
22668.00  
BRIDGE # 6553  
HIGHWAY PLANS



SIGNATURE  
P.E. NUMBER  
DATE

PROJ. MANAGER	BY	DATE
L. HAMILTON	S. KELLY	06/18/20
CHECKED-REVIEWED	B. LYON	06/18/20
DESIGNS DETAILED		
DESIGNS DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

CUMBERLAND  
TUTTLE ROAD  
CROSS SECTIONS

SHEET NUMBER  
**10**  
OF 11

Town, County, State \_\_\_\_\_  
 Approx. Property Lines \_\_\_\_\_  
 Existing Right of Way \_\_\_\_\_  
 Limits of Wrought Portion \_\_\_\_\_  
 Control Of Access \_\_\_\_\_  
 New Right of Way \_\_\_\_\_  
 New Easement \_\_\_\_\_  
 New Temporary Rights \_\_\_\_\_  
 New R/W Within Existing R/W \_\_\_\_\_

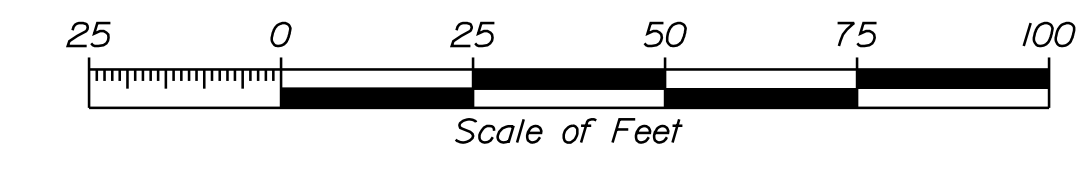
New R/W Along Existing R/W \_\_\_\_\_  
 Building \_\_\_\_\_  
 Trees Conifer \_\_\_\_\_  
 Tree Line \_\_\_\_\_  
 Water Edge \_\_\_\_\_  
 Ledge \_\_\_\_\_  
 Fence \_\_\_\_\_  
 Sign \_\_\_\_\_

Clearing Limit Line \_\_\_\_\_  
 Deciduous \_\_\_\_\_  
 Bush Line \_\_\_\_\_  
 Rock/Boulder \_\_\_\_\_  
 Barb Wire \_\_\_\_\_  
 Stockade \_\_\_\_\_  
 Well \_\_\_\_\_  
 Mailbox \_\_\_\_\_

**PLAN LEGEND**  
 Existing Proposed  
 Sanitary Sewer \_\_\_\_\_  
 Telephone Line \_\_\_\_\_  
 Electric Line \_\_\_\_\_  
 Water Line \_\_\_\_\_  
 Underdrain Line \_\_\_\_\_  
 Gas Line \_\_\_\_\_  
 Guardrail \_\_\_\_\_  
 Culvert \_\_\_\_\_  
 Traveled Way \_\_\_\_\_  
 Ditch \_\_\_\_\_  
 Catch Basin \_\_\_\_\_  
 Manhole \_\_\_\_\_  
 Sewer Manhole \_\_\_\_\_  
 Utility Pole \_\_\_\_\_  
 Fire Hydrant \_\_\_\_\_  
 Curbing \_\_\_\_\_

Cut Line \_\_\_\_\_  
 Stonewall \_\_\_\_\_  
 Baseline \_\_\_\_\_  
 Monument \_\_\_\_\_  
 Iron Rod Found \_\_\_\_\_  
 Replacement Pin Set \_\_\_\_\_  
 Fill Line \_\_\_\_\_  
 Retaining Wall \_\_\_\_\_  
 Traverse Point \_\_\_\_\_  
 Pipe Found \_\_\_\_\_

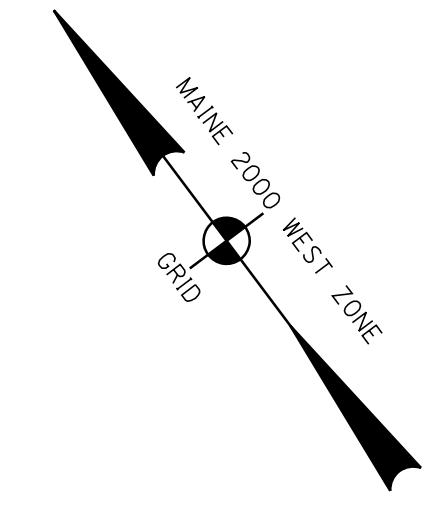
THIS PLAN WAS PREPARED IN CONNECTION WITH THE DEPARTMENT'S ACQUISITION OF REAL PROPERTY FOR TRANSPORTATION PURPOSES. IT CANNOT BE USED TO ESTABLISH LEGAL BOUNDARIES BETWEEN ADJACENT PROPERTY OWNERS.



STATE OF MAINE  
 REGISTRY OF DEEDS  
 COUNTY OF \_\_\_\_\_  
 RECEIVED \_\_\_\_\_, 20\_\_\_\_  
 AT \_\_\_\_\_ HRS. \_\_\_\_\_ MINS. \_\_\_\_\_ M.  
 AND RECORDED IN  
 PLAN BOOK \_\_\_\_\_  
 (OR FILE NO.) \_\_\_\_\_, PAGE \_\_\_\_\_  
 ATTEST: \_\_\_\_\_ REGISTRAR

PLAN OF PROPERTY IN CUMBERLAND, MAINE MADE FOR JOHN LA FORGE, STANDARD BOUNDARY SURVEY, PREPARED BY H.I. & E.C. JORDAN DATED 8/8/1986, RECORDED AT THE C.C.R.D. IN PLAN BOOK 157, PAGE 21

CONTROL INFORMATION  
 HORIZONTAL DATUM - US STATE PLANE  
 NAD83 (2011)  
 VERTICAL DATUM - NAVD 88  
 COMBINED SCALE FACTOR - 0.9999783



CURVE DATA #1  
 PI = 101+60.47  
 D = 0°24'33.3"  
 Δ = 1°08'31.9" Lt.  
 R = 14000.00'  
 L = 279.08'  
 T = 139.55'  
 E = 0.70'

JAMES T. KERR  
 ANN M. KERR  
 ITEM NO. (2)  
 CONST. & MAINT. EASE. = 0.06± AC. (1)  
 TEMP. CONST. RIGHTS = 0.06± AC. (1)  
 TOTAL AREA = 4.7± AC. (TOWN)

CURVE DATA #1  
 PI = 101+60.47  
 D = 0°24'33.3"  
 Δ = 1°08'31.9" Lt.  
 R = 14000.00'  
 L = 279.08'  
 T = 139.55'  
 E = 0.70'

DIANA C. LEE  
 ITEM NO. (1)  
 CONST. & MAINT. EASE. = 0.05± AC. (1)  
 TEMP. CONST. RIGHTS = 0.05± AC. (1)  
 TOTAL AREA = 14.38± AC. (TOWN)

CURTIS B. INGRAHAM  
 ELAINE F. INGRAHAM

CHARLES L. CLEMENT  
 DIANE M. CLEMENT

BOUNDARY SURVEY MAP FOR CHARLES G. BEAUDETTE, KATE S. BEAUDETTE  
 PREPARED BY MAINE BOUNDARY CONSULTANTS, DATED AUGUST 12, 2002.  
 (UNRECORDED)

EXISTING R/W NOTES:  
 TUTTLE ROAD  
 CUMBERLAND COUNTY COMMISSIONER'S RECORDS  
 VOLUME 19, PAGES 395-398, DATED 1928  
 3 RODS (49.5 FEET) WIDE  
 ALSO SEE RELATED PLAN TITLED:  
 TUTTLE ROAD IN CUMBERLAND  
 CENTER TO FEDERAL ROAD  
 SURVEYED OCTOBER 11, 1926  
 BY WILLIAM E. WINSLOW  
 CUMBERLAND COUNTY COMMISSIONER'S PLAN BOOK 5, PAGE 2  
 HARRIS ROAD  
 4 RODS (66 FEET) WIDE  
 TOWN OF CUMBERLAND ACCEPTANCE DATED MAY 11, 1829  
 TOWN OF CUMBERLAND ACCEPTANCE DATED MAY 10, 1830  
 SEE 'HARRIS ROAD' PDF AT HTTP://CUMBERLAND.MAINE.COM/GOVERNMENT/  
 DEPARTMENTS/PUBLIC-SERVICES/PUBLIC-WORKS-DEPARTMENT/CUMBERLAND-ROADS/

REVISIONS			PLAN FILED IN PLAN BOOK				PAGE COUNTY RECORD				BRUCE A. VAN NOTE	
NO.	DATE	DESCRIPTION	NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE	COND.	DATE		BOOK
						1/27/2020	36371	152				

STATE AID HIGHWAY NO. 3  
 TUTTLE ROAD  
 CUMBERLAND COUNTY  
 STATE PROJECT NO. 22668.00  
 SEPTEMBER 2019  
 SCALE 1" = 25'

RIGHT-OF-WAY MAP  
 SHEET 1 OF 1  
 D.O.T. FILE NO. 3-646

SHEET NUMBER  
**11**  
 OF 11

ITEM	TECH	CHECKED
EXISTING CONDITION PLAN	N.T.A.	C.W.K.
FINAL RIGHT OF WAY	J.D.F.	R.M.C.
AREAS	R.M.C.	J.H.

STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016 - 207-624-3460  
 CUMBERLAND  
 RIGHT OF WAY MAP

Date: 6/24/2020

Username: Ewa.Swinton

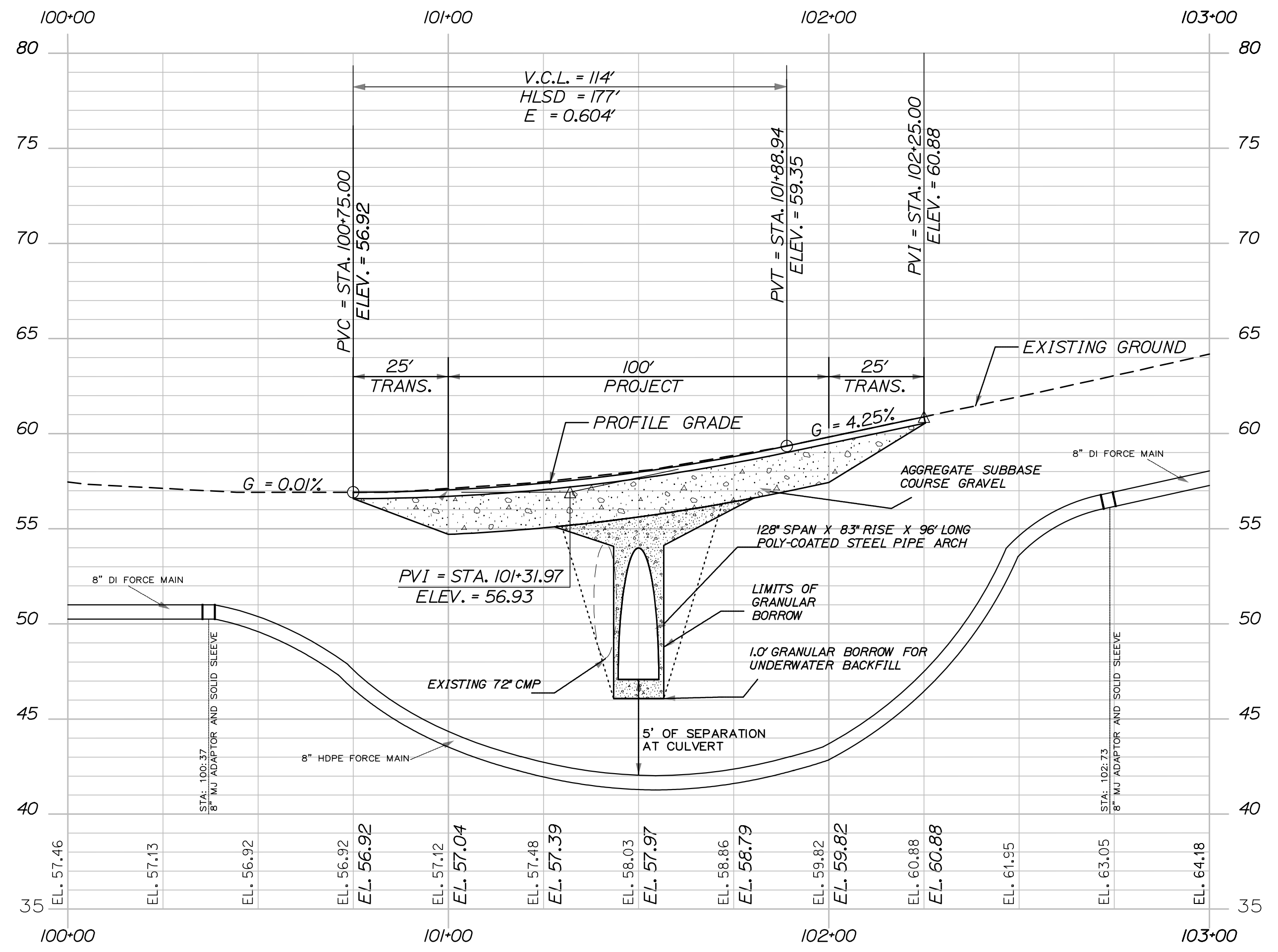
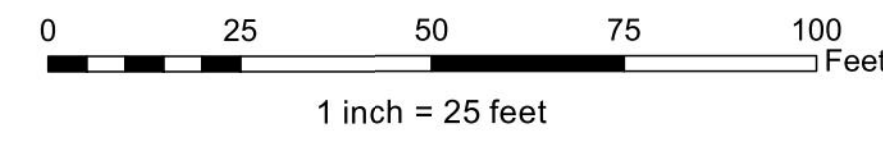
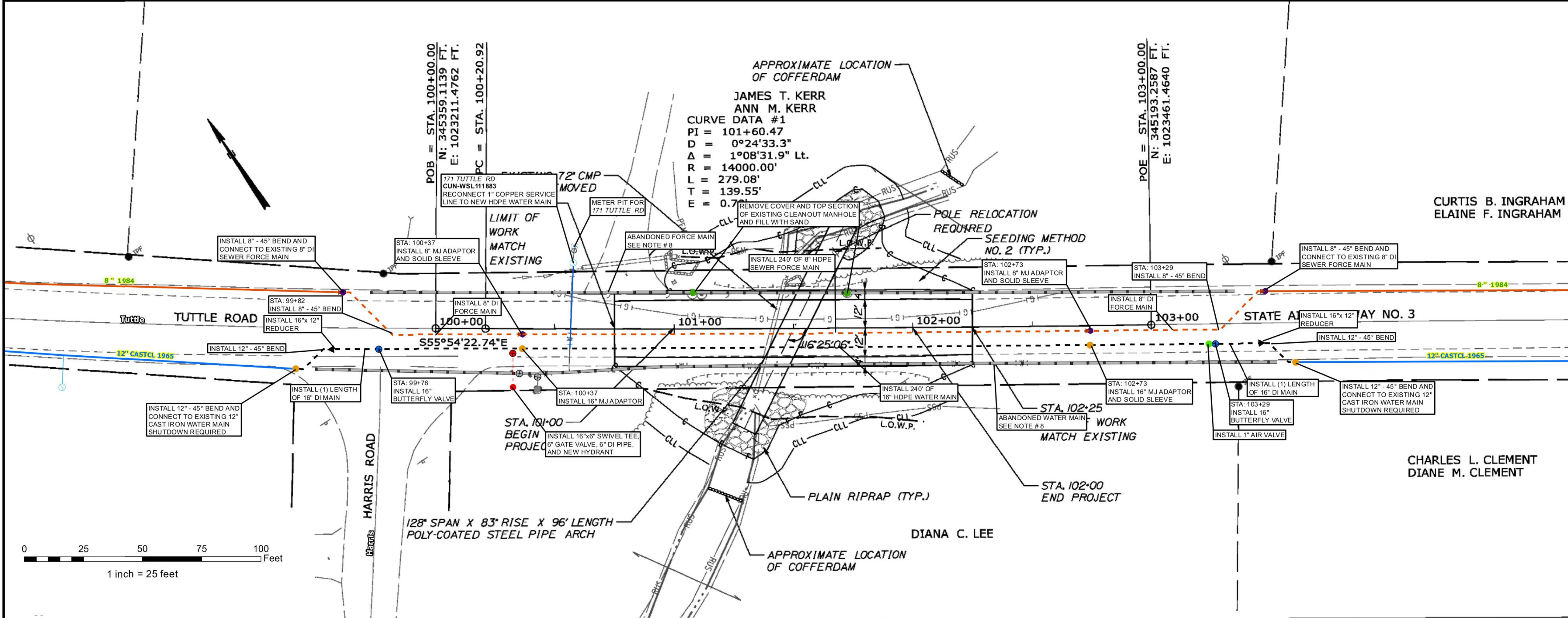
Division: ROW

Filename: ... \00\ROW\MSTA\011\_R\PLANT.dgn

**TUTTLE ROAD CULVERT  
CUMBERLAND, MAINE  
WATER AND SEWER FORCE  
MAIN REPLACEMENTS**

**NOTES**

- CONTRACTOR SHALL DISPOSE OF ALL EXCAVATED PIPING AND APPURTENANCES. SALVAGE ALL REMOVED HYDRANTS AND DELIVER TO THE PWD YARD AT 225 DOUGLASS ST - PORTLAND.
- THE PORTLAND WATER DISTRICT WILL NOTIFY THE CUSTOMERS FOR ALL WORK INVOLVING TEMPORARY SHUTDOWN OF SERVICE. CUSTOMERS MUST RECEIVE AT LEAST 48 HOURS NOTIFICATIONS PRIOR TO ANY SHUTDOWN. THE DISTRICT MUST RECEIVE NOTICE FROM THE CONTRACTOR OF THE SHUTDOWN AT LEAST 48 HOURS PRIOR TO CUSTOMER NOTIFICATION.
- ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE POLY-WRAPPED PER SPECIFICATIONS.
- LOCATIONS OF UTILITIES OTHER THAN WATER ARE APPROXIMATE, AND NOT ALL UTILITIES ARE SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING, SUPPORTING, AND PROTECTING ALL UTILITIES DURING INSTALLATION OF THE WATER MAIN.
- INSTALL SWIVEL TYPE TEE FOR ALL HYDRANT CONNECTIONS.
- ALL FITTINGS SHALL BE MECHANICAL JOINT (RESTRAINED).
- REMOVE THE TOP SECTION OF ALL ABANDONED VALVE BOXES AND FILL WITH SAND.
- PLACE FLOWABLE FILL IN ALL ABANDONED PIPES.
- INSTALL RESTRAINED JOINT GASKETS IN ALL DUCTILE IRON PUSH ON JOINTS.
- SUPPLY TEMPORARY 3/4" SERVICE TO # 171 TUTTLE ROAD FROM THE EXISTING HYDRANT. CONNECT IN METER PIT AT EDGE OF RIGHT OF WAY.
- THE EXISTING 12" WATER MAIN AND 8" FORCE SEWER MAIN SHALL REMAIN IN SERVICE DURING INSTALLATION OF NEW MAINS (UNTIL FINAL CONNECTIONS).
- INSTALLATION SEQUENCE:  
1) INSTALL HDPE, DUCTILE IRON AND TEMPORARY BLOW-OFFS ON THE ENDS OF BOTH INSTALLATIONS.  
2) CONNECT 4" TEMPORARY MAIN FROM EXISTING HYDRANT TO EASTERLY BLOW-OFFS FOR TESTING.  
3) CONNECT BOTH ENDS OF NEW INSTALLATION IN ONE SHUTDOWN.
- THE CONTRACTOR IS RESPONSIBLE FOR SEWERAGE REMOVAL AND DISPOSAL (APPROX. 4,500 GALS.) DURING THE FINAL CONNECTION SHUTDOWN. THE CLEANOUT MANHOLES CAN BE UTILIZED TO DRAIN AND PUMP.



HORIZONTAL 1" = 25'  
VERTICAL 1" = 5'

SEWER FORCE MAIN PROFILE

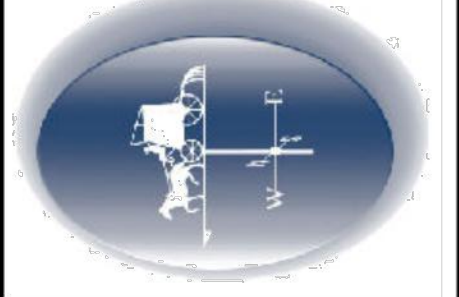
**LEGEND**

- EXISTING WATER MAIN
- - - PROPOSED WATER MAIN
- EXISTING SEWER FORCE MAIN
- - - PROPOSED SEWER FORCE MAIN
- WATER SERVICE
- ABANDONED PIPE
- ADAPTOR / SLEEVE (FORCE MAIN)
- ADAPTOR / SLEEVE (WATER MAIN)
- CLEANOUT MANHOLE



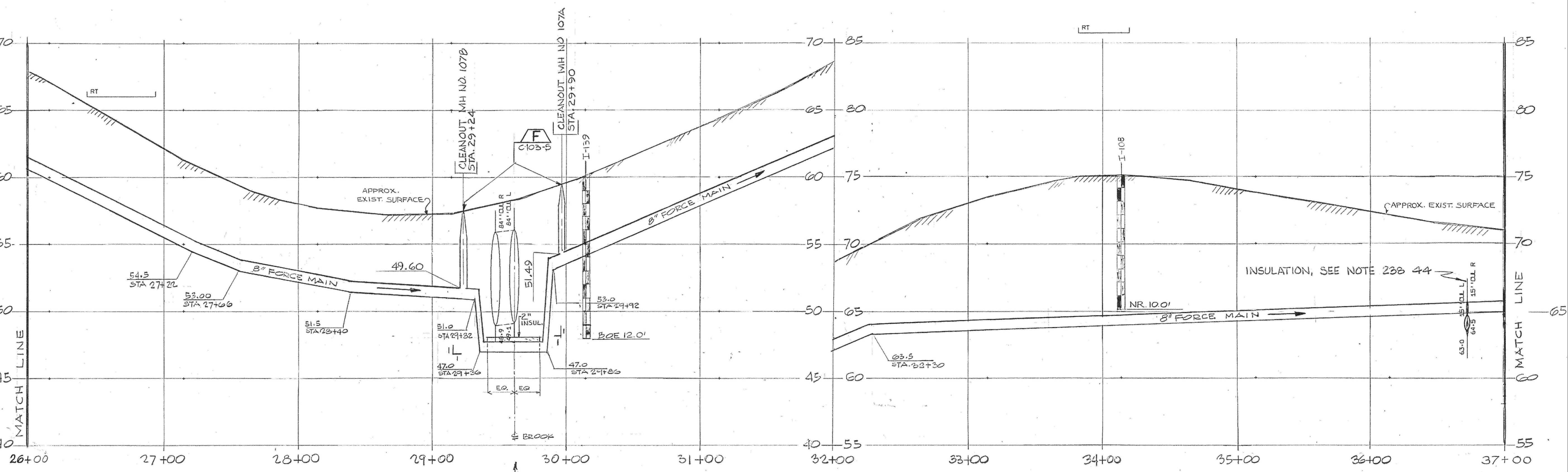
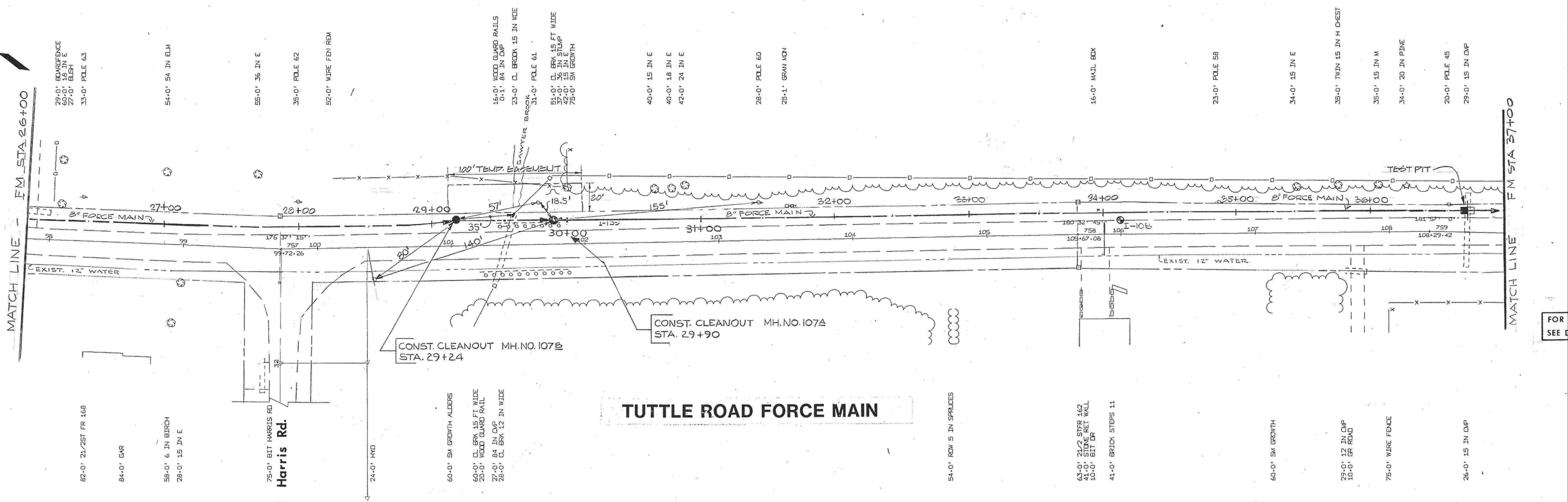
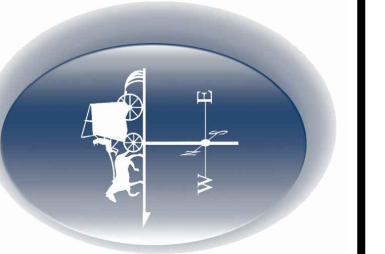
DRAWN BY: BSJ  
DESIGN BY: TM  
DATE: 5/22/2020

**Portland Water District**  
ASSET MANAGEMENT AND PLANNING DEPARTMENT  
225 DOUGLASS STREET, PORTLAND ME 04104  
(207) 774-5961 • WWW.PWD.ORG

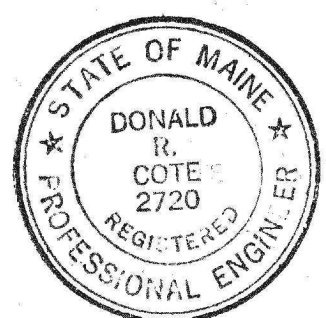


TUTTLE ROAD  
 CUMBERLAND, MAINE  
 WATER AND SEWER FORCE  
 MAIN REPLACEMENTS  
 EXISTING FORCE MAIN RECORD DRAWING

Portland Water District  
 ASSET MANAGEMENT AND PLANNING DEPARTMENT  
 225 DOUGLASS STREET, PORTLAND ME 04104  
 (207) 774-5961 EXT. 3041 • MEANS@PWD.ORG



NOTE:  
 VERIFY STATIONS IN FIELD WITH  
 RESPECT TO CENTER OF BROOK  
 AND END OF CULVERT. FORCE MAIN  
 PLACED UNDER CULVERT AND  
 INSUL. WITH 2" THICK FLAT STYROFOAM  
 PLACED BETWEEN FORCE MAIN AND  
 CULVERT.

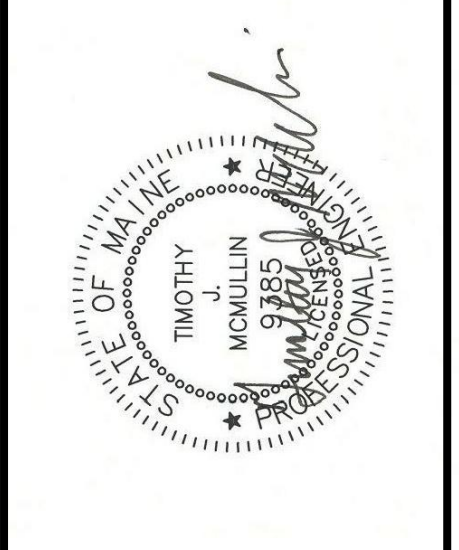


10-2-2011	RECORD DWGS.	SURVEY	
1-10-2011	ISSUED FOR BID	FIELD BOOK	
3-15-2011	SUBMITTED TO D.E.R.	PLOT	
DATE	STATUS	DESIGN	D. P. [Signature]
		DRAWN	J. BURKE
		CHECK	J. CARITHERS
		APPROVED	RED [Signature]

**E.C. JORDAN CO.**  
 ENGINEERING, ARCHITECTURE, PLANNING  
 PORTLAND, MAINE

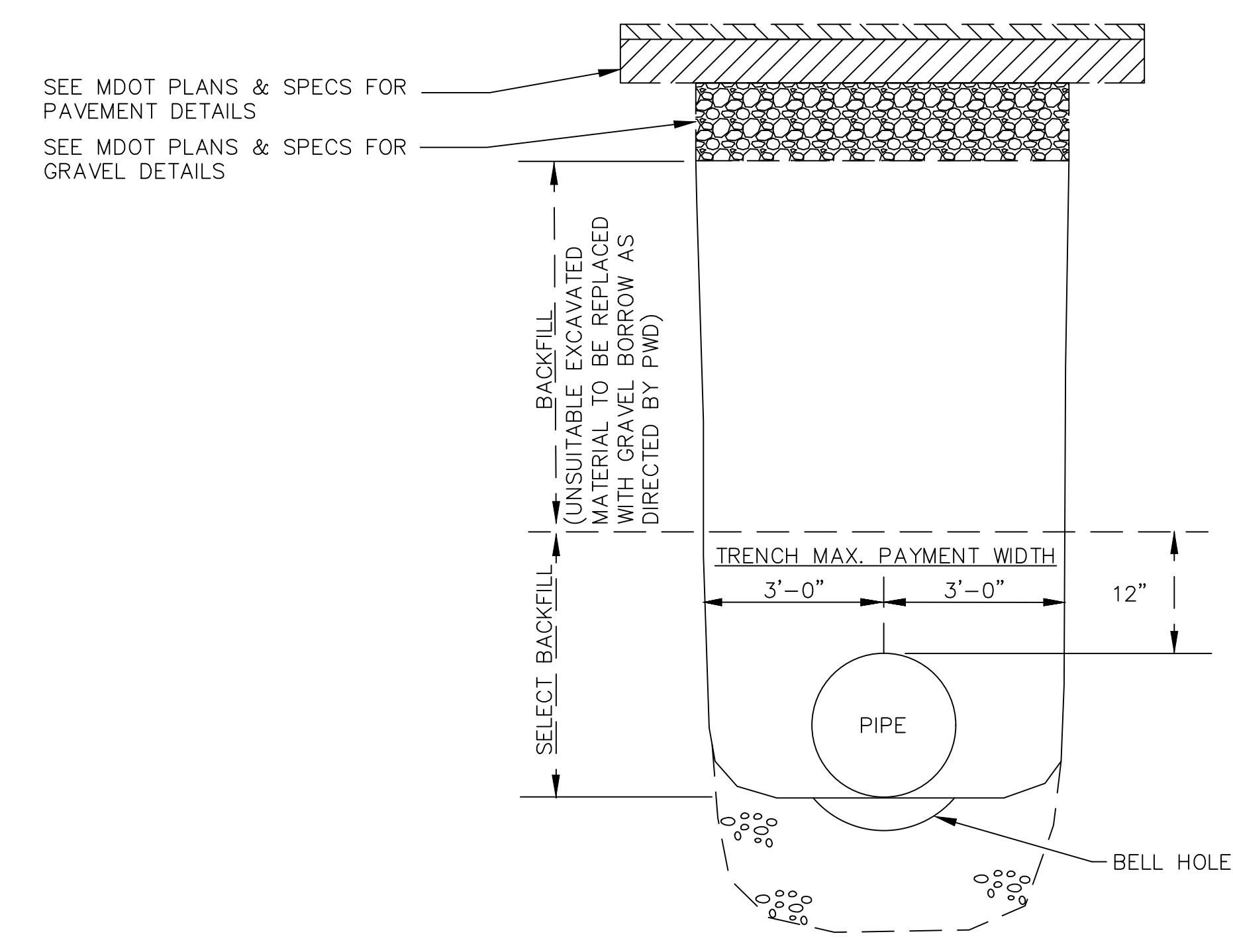
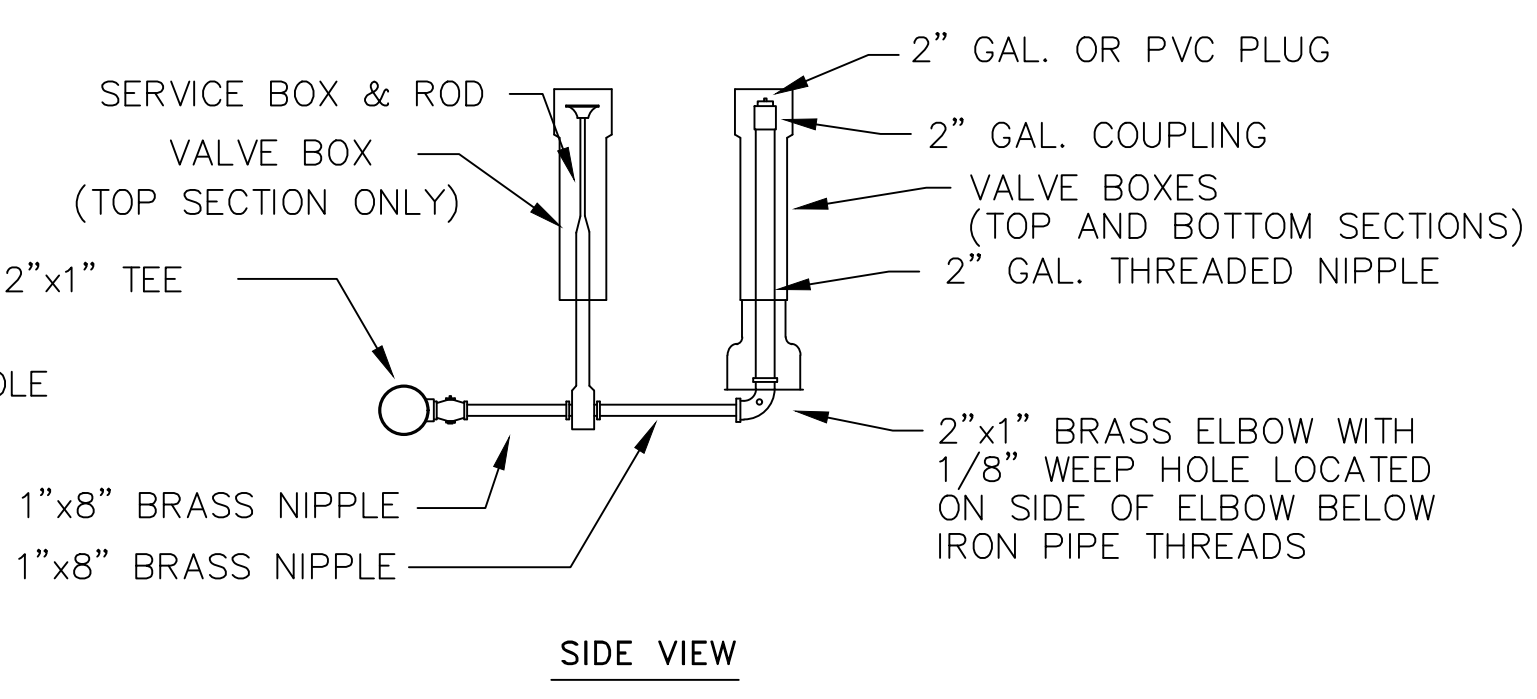
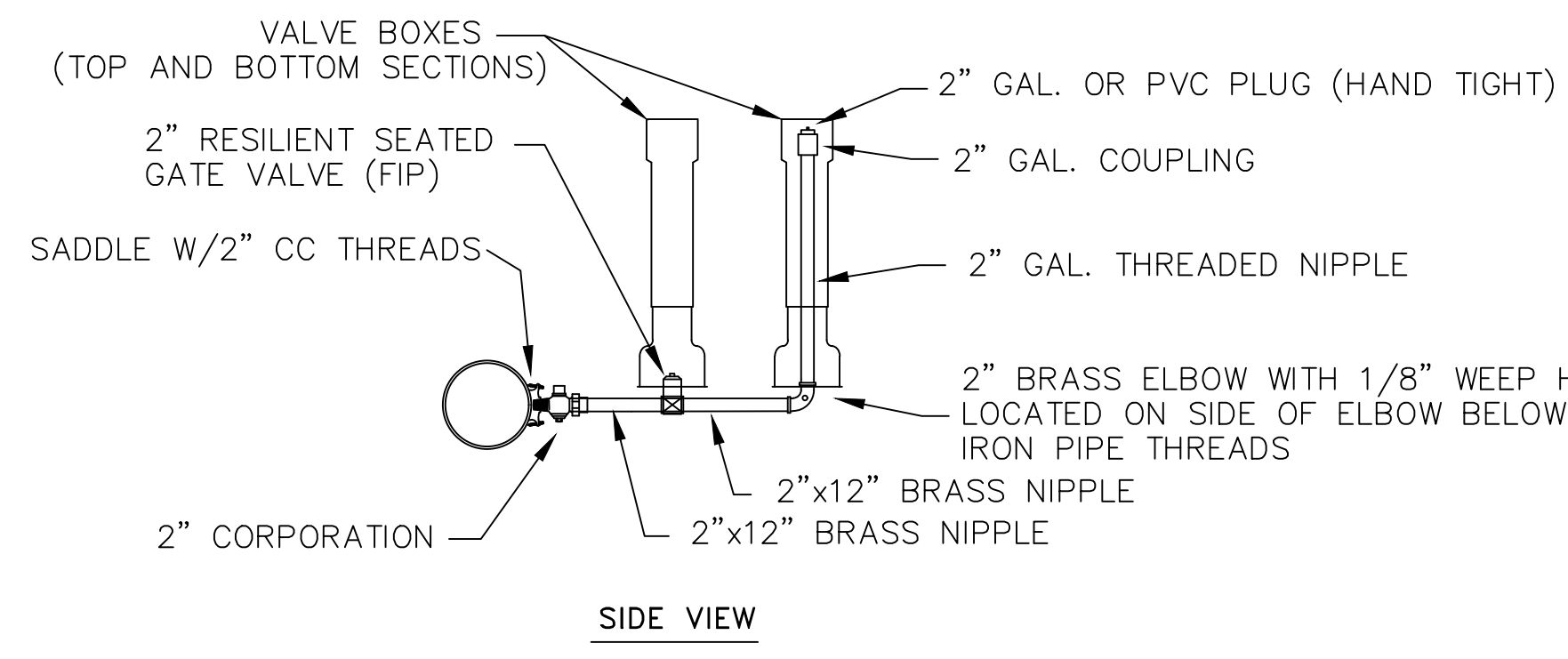
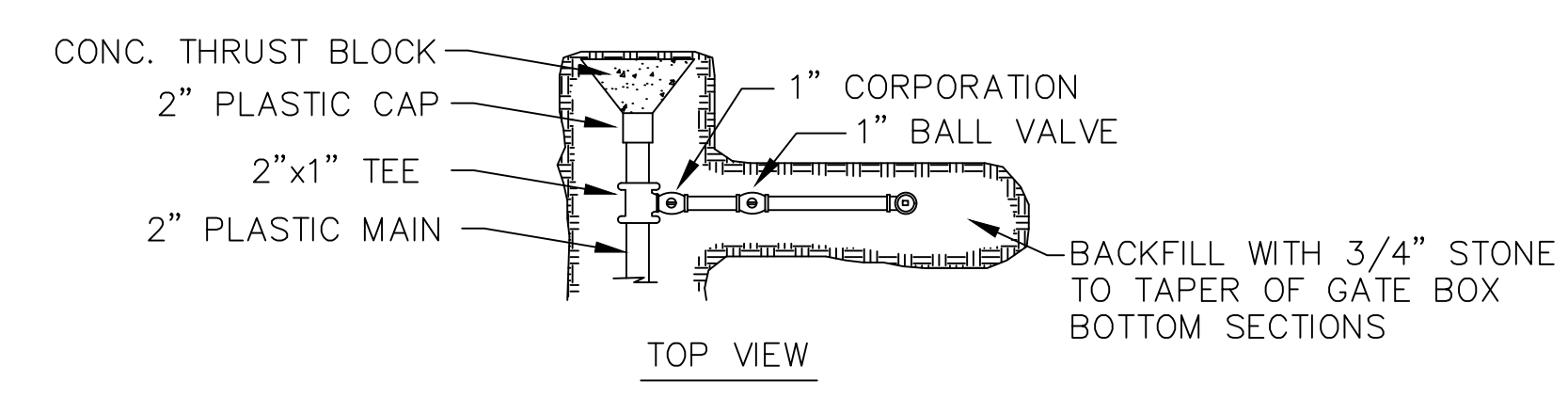
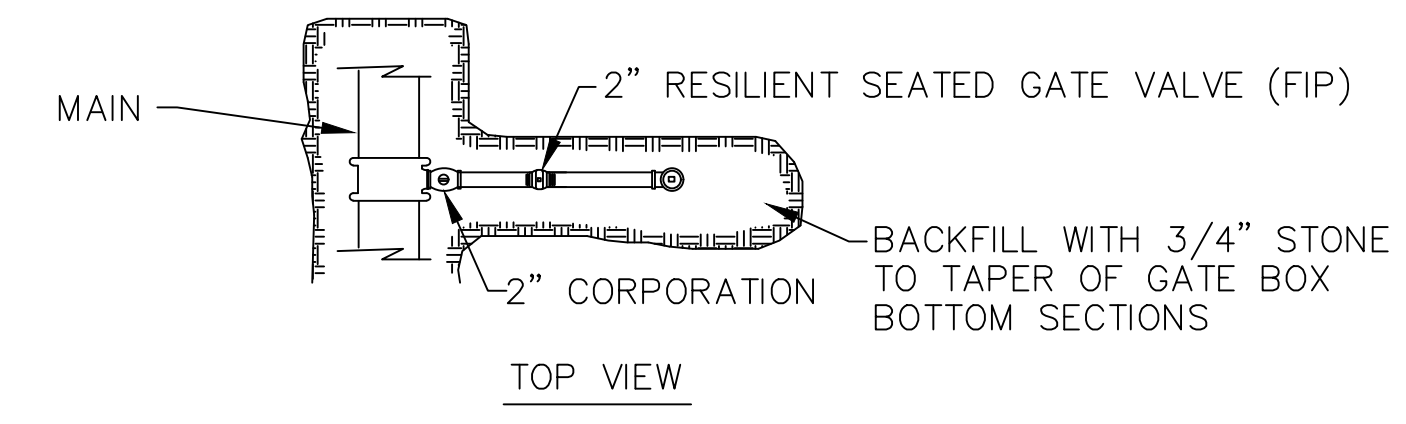
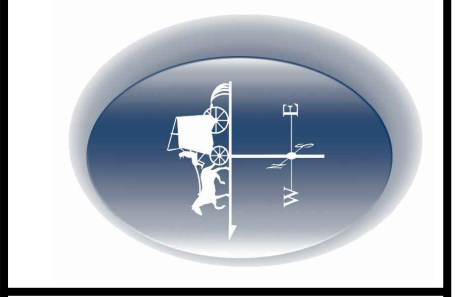
PORTLAND WATER DISTRICT

327903	C239	45
STA. 26+00 TO STA. 37+00		
INTERCEPTOR SEWER SYSTEM-CONTRACT 2		
TUTTLE ROAD FORCE MAIN		
SCALE	1" = 40' HORIZ	4" = 10' VERT



DRAWN BY: BSJ  
CHECKED BY: TM  
DATE: 5/22/2020

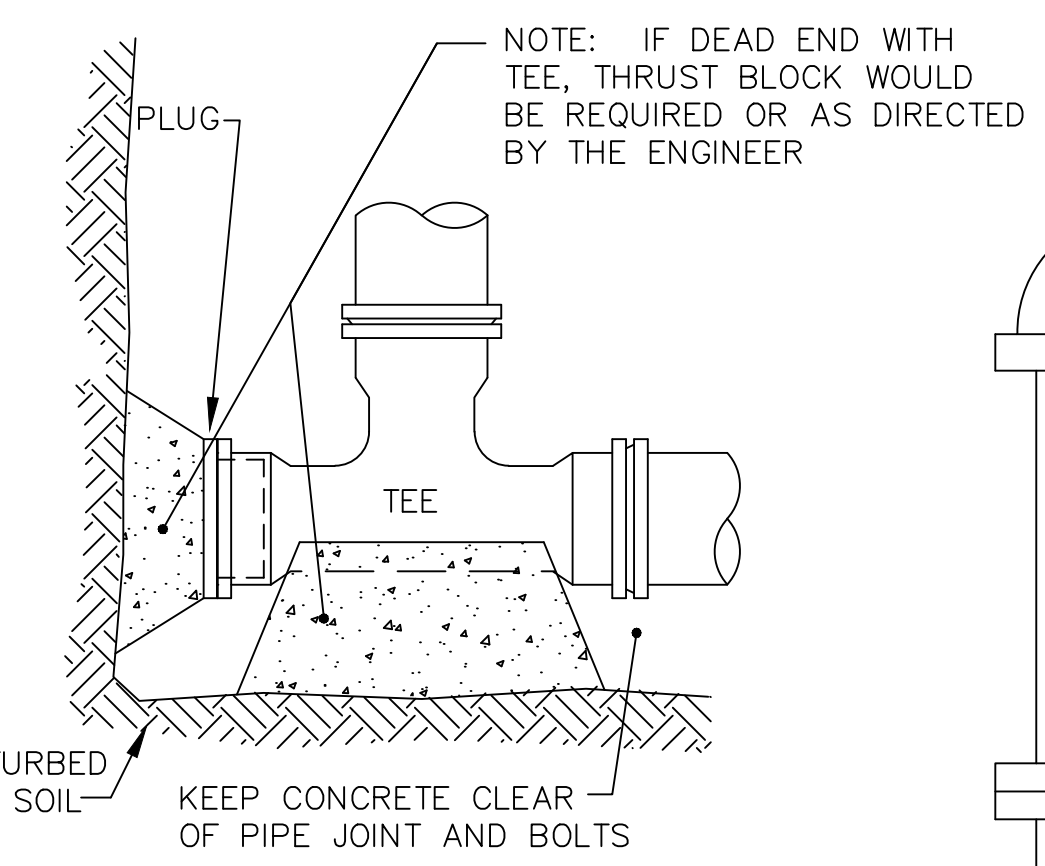
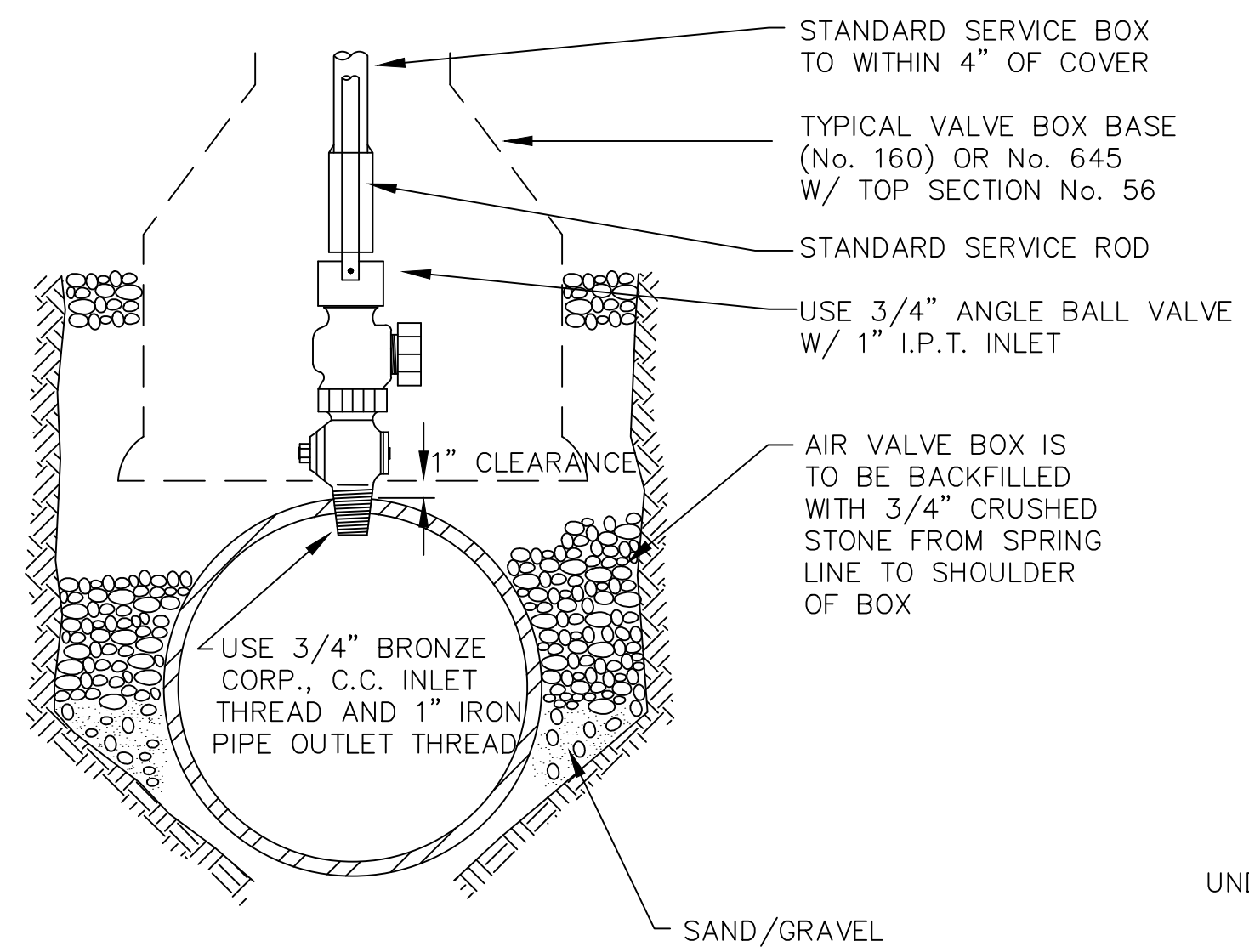
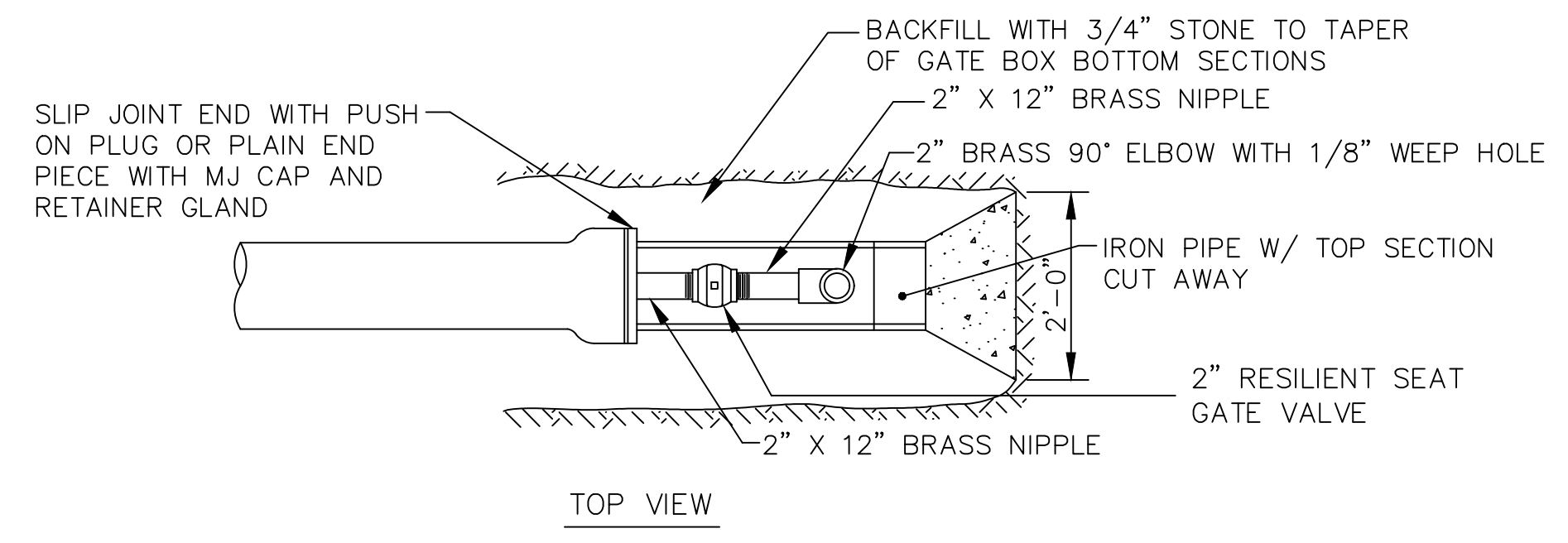
**Portland Water District**  
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SIDE-ARM BLOW-OFF  
4" & LARGER MAINS

SIDE-ARM BLOW-OFF  
2" MAIN

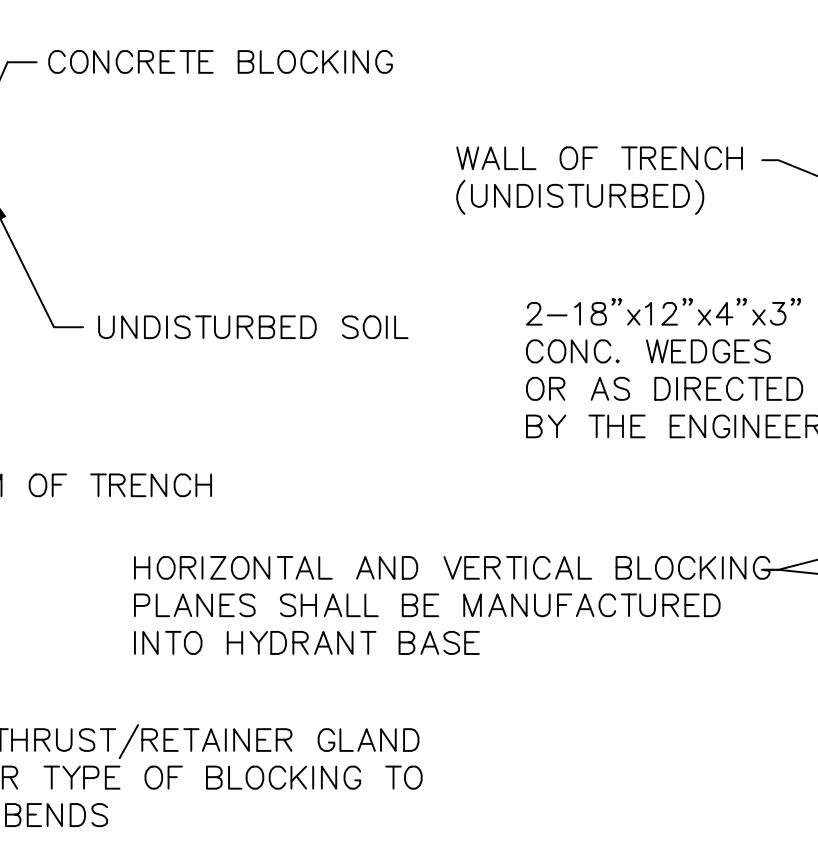
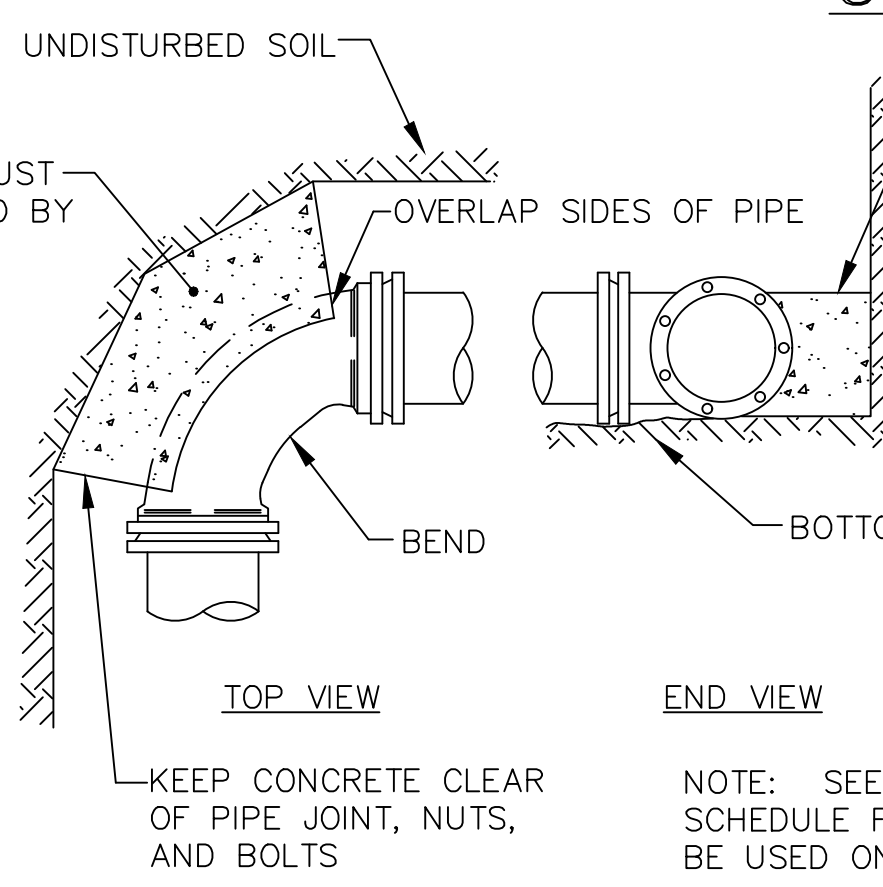
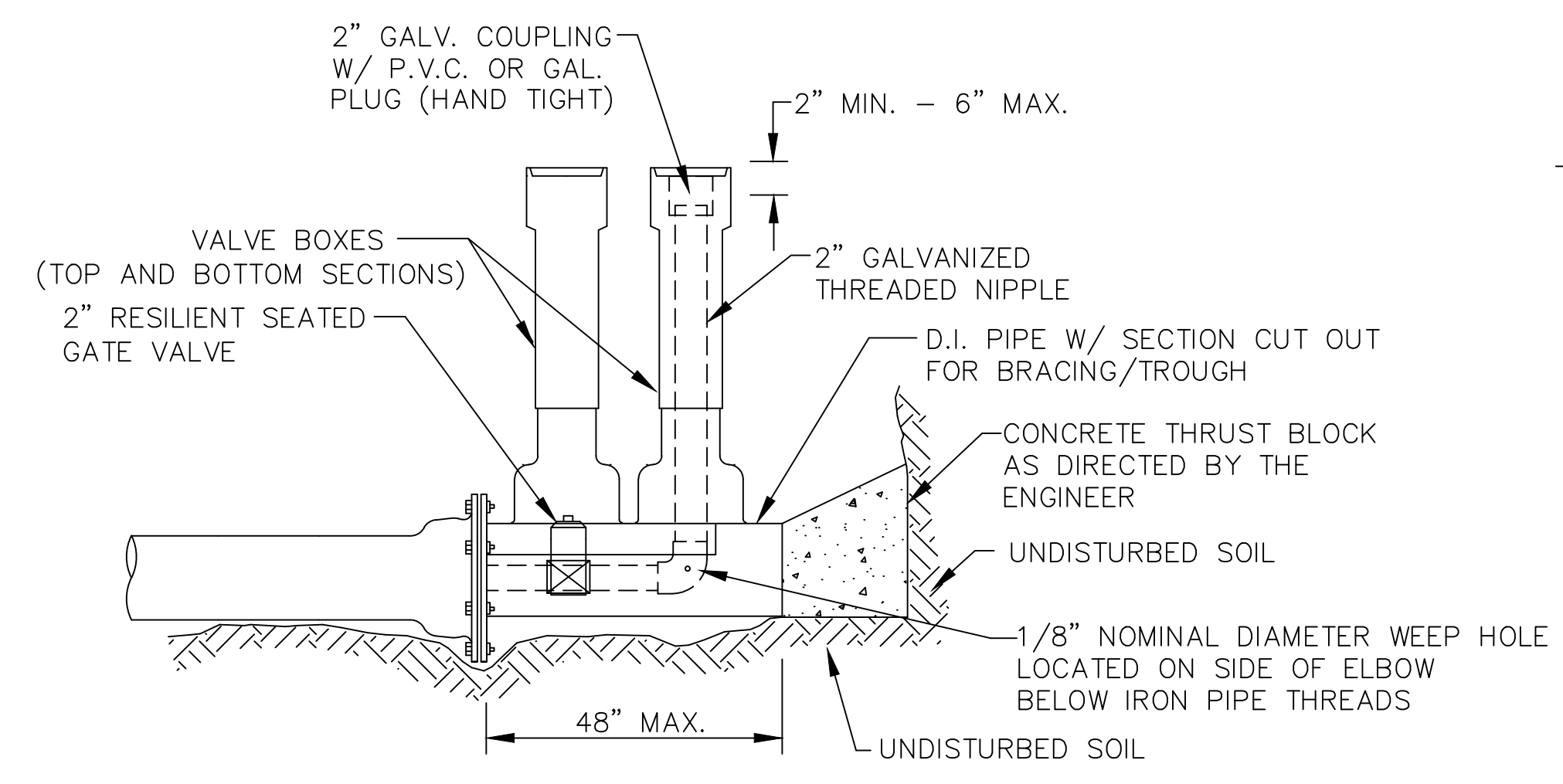
SECTION THRU EARTH TRENCH



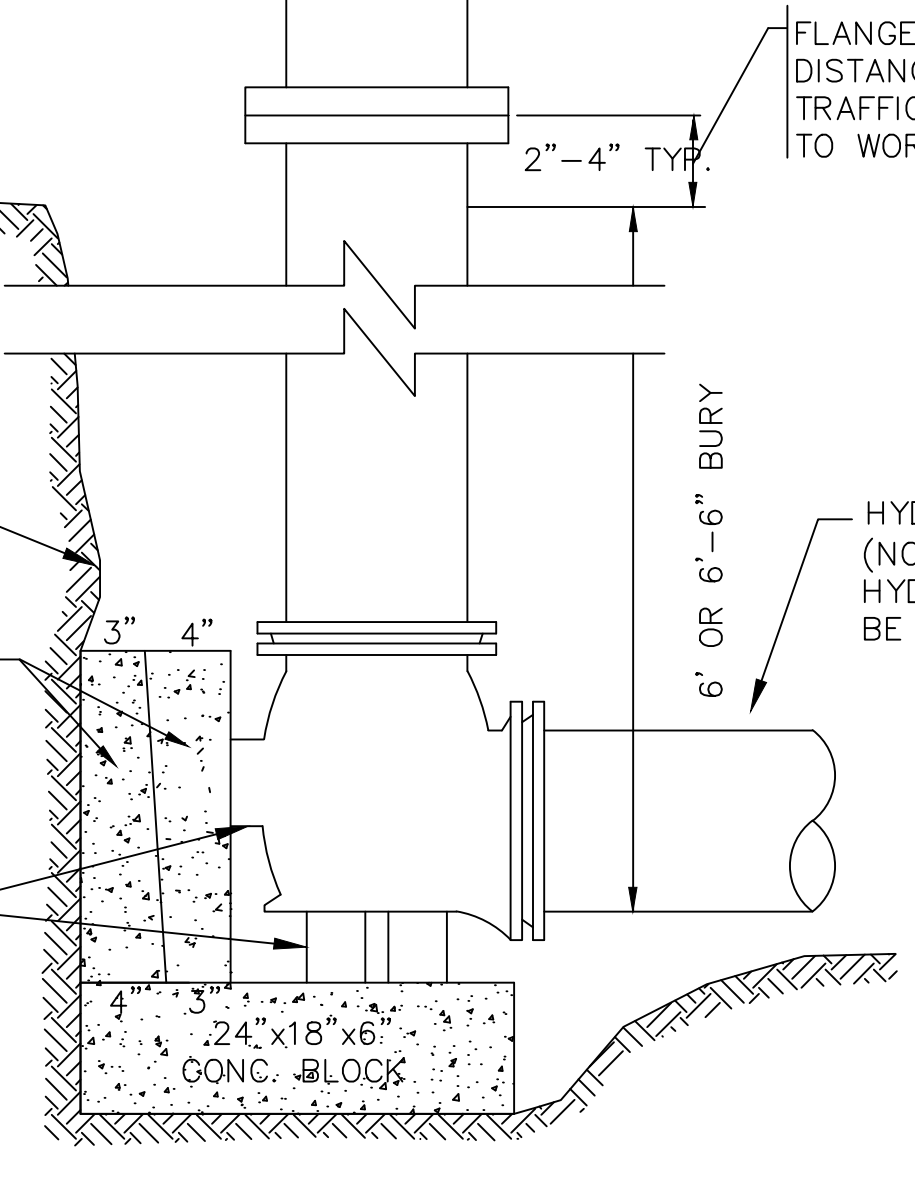
FOR STATE ROADS  
SETBACK SHALL CONFORM TO M.D.O.T. POLICY FOR ABOVE GROUND UTILITY LOCATIONS. FOR SPEED LIMITS >35MPH 6 1/2' FROM EDGE OF SHOULDER OR FACE OF CURB. FOR SPEED LIMITS <35MPH 3' FROM EDGE OF SHOULDER OR 1' FROM FACE OF CURB.  
FOR CITY OR TOWN ROADS  
CHECK WITH MUNICIPALITY FOR REQUIREMENTS

TYPICAL AIR VALVE (1")

STANDARD TEE BLOCKING

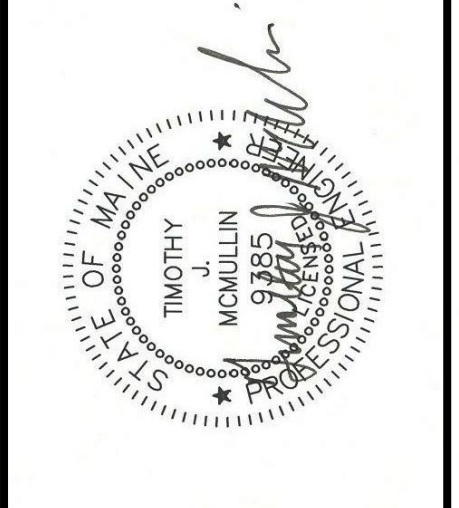


STANDARD BEND BLOCKING



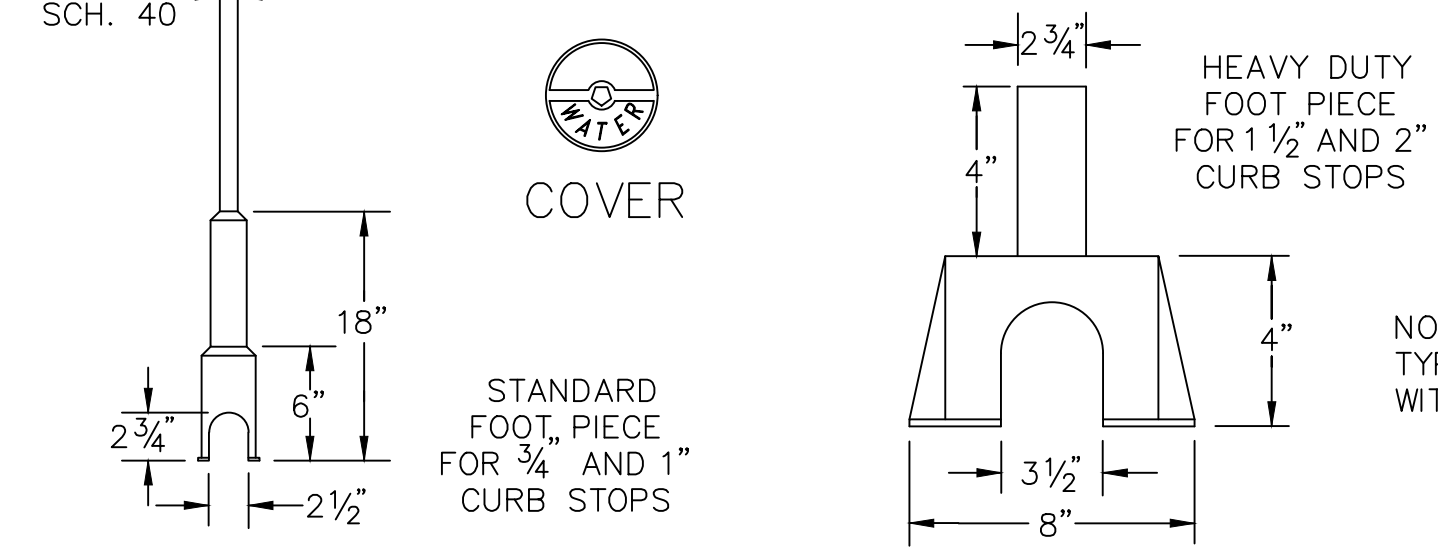
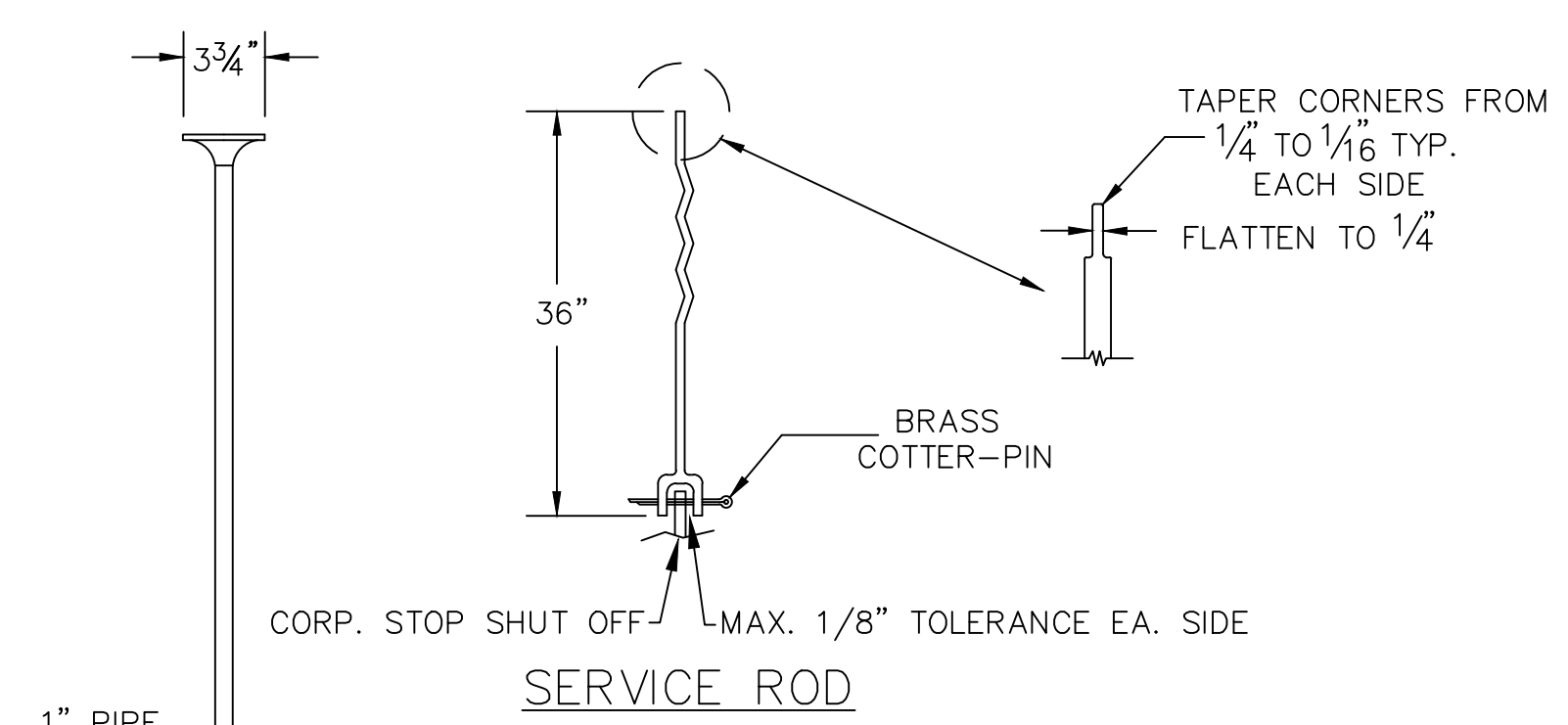
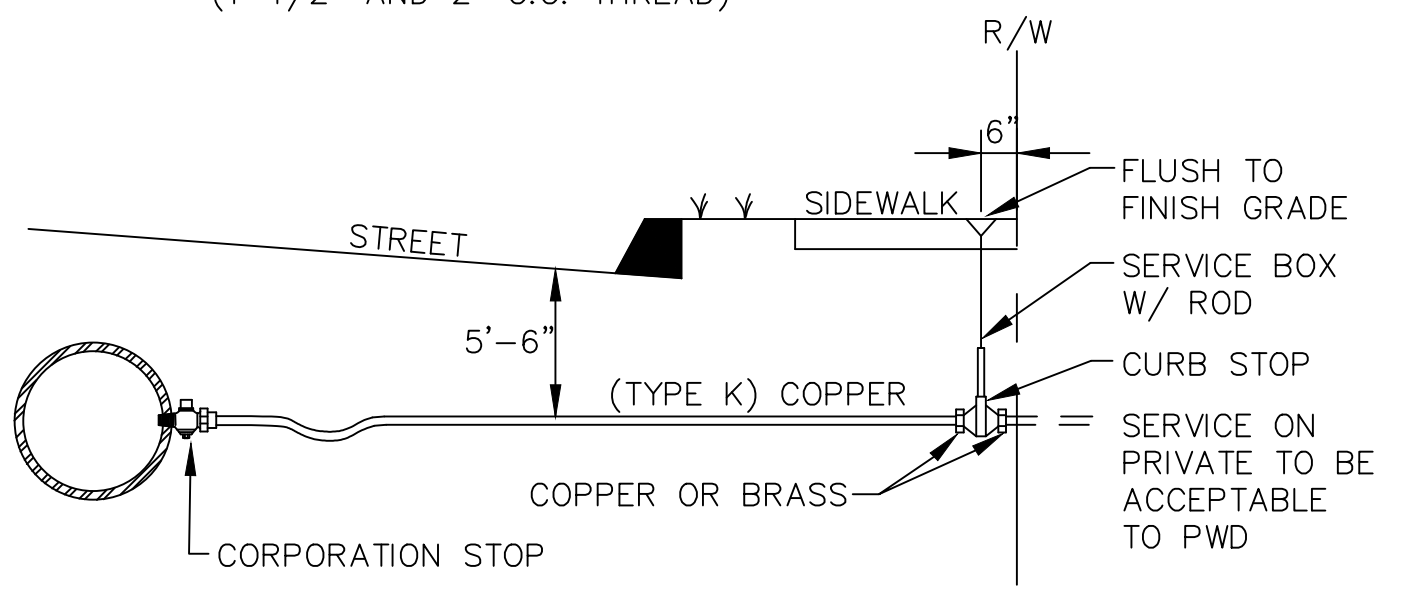
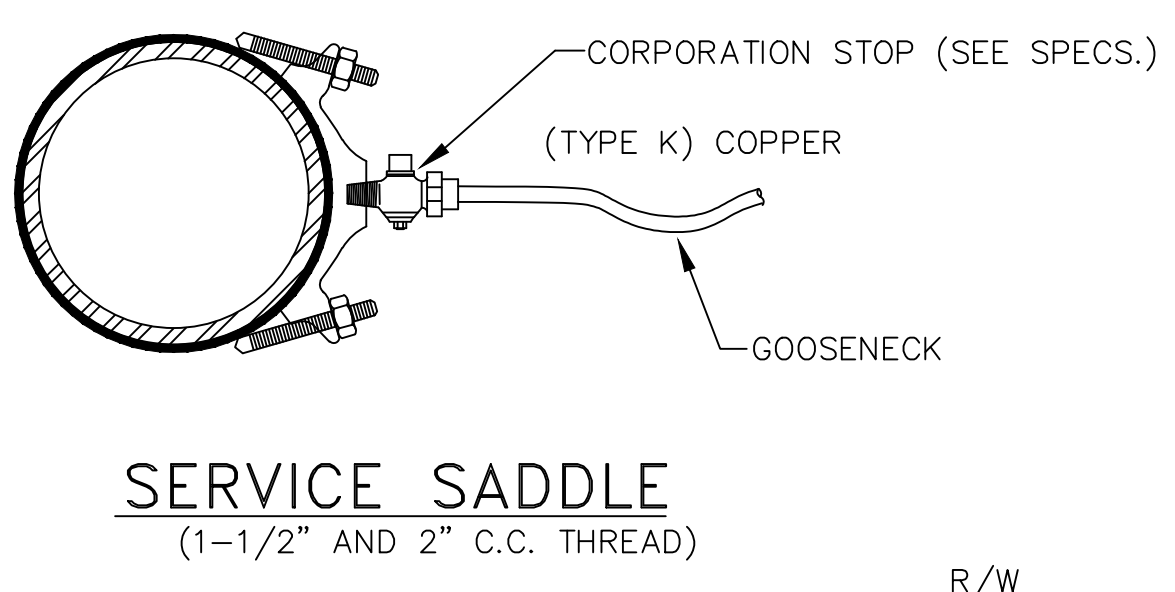
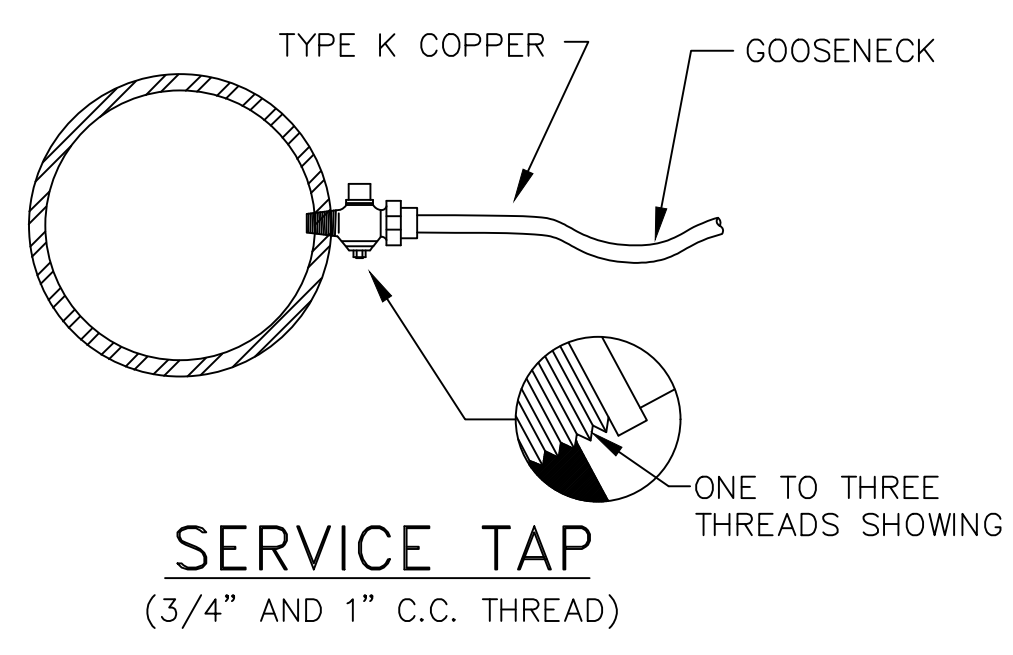
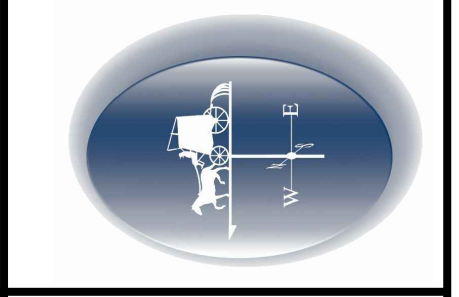
TYPICAL HYDRANT INSTALLATION DETAIL

STANDARD 2" BLOW OFF



DRAWN BY: BSJ  
CHECKED BY: TM  
DATE: 5/22/2020

Portland Water District  
ASSET MANAGEMENT AND PLANNING DEPARTMENT  
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**SERVICE BOX**

NOTE : ANY EXTENSION OF SERVICE BOX REQUIRES:  
1) 1" FEMALE IRON PIPE COUPLING  
2) 1" THREADED PIPE  
(THIS IS TO BE A NON-WELDED, TWO PIECE ARRANGEMENT. SLIP ON ADAPTERS ARE NOT PERMISSIBLE.)

