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S. PETER MILLS, EXECUTIVE DIRECTOR

CONTRACT 2022.14 WEST GARDINER WATERLINE REPLACEMENT **MILE 101.7**



INDEX OF SHEETS

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GENERAL NOTES AND ESTIMATED QUANTITIES

3-7 WATERLINE NOTES, PLANS, PROFILES, AND DETAILS

LIMIT OF DISTURBANCE PLAN

CONTRACT 2022.14 WEST GARDINER WATERLINE REPLACEMENT SCARBOROUGH BIDDEFORD ATLANTIC OGUNQUIT BERWICK YORK BEACH PORTSMOUTH

LOCATION MAP











4/28/22 DATE 4/28/22

2. THE CONTRACTOR SHALL SUBMIT THE PROPOSED STAGING AREA(S) TO THE RESIDENT FOR REVIEW AND APPROVAL.

3. ANY DAMAGE TO PAVEMENT SLOPES OR STRUCTURES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL OR OPERATIONS 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.

4. AS-BUILT PLANS FOR THE SERVICE PLAZA ARE AVAILABLE FROM THE AUTHORITY

5. CONTRACTOR SHALL PROVIDE MTA WITH AS-CONSTRUCTED PLANS IN PDF AND CADD FORMATS. THE PLANS SHALL NOTE ALL CHANGES TO, BUT NOT LIMITED TO: PAVEMENT, UTILITIES, DRAINAGE, FOUNDATIONS, WIRING, ETC.

6. FOLLOWING THE COMPLETION OF THE WORK THE CONTRACTOR SHALL PROVIDE ONE HARD COPY AND ONE LINKED, TABBED, AND SEARCHABLE PDF DOCUMENT OF ALL APPROVED SUBMITTALS ASSOCIATED WITH THE PROJECT ORGANIZED BY THE WORK

7. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE SERVICE PLAZA, PARKING AREAS, AND FUELING STATIONS DURING CONSTRUCTION AT ALL TIMES.

8. RIGHT OF WAY AND PROPERTY LINES ARE SHOWN FOR INFORMATIONAL PURPOSES

9. FOLLOWING THE COMPLETION OF WORK THE CONTRACTOR SHALL PROVIDE THE AUTHORITY THREE HARD COPIES OF ALL O&M MANUALS ASSOCIATED WITH THE PROJECT AND ONE LINKED TABBED AND SEARCHABLE PDF DOCUMENT CONTAINING ALL O&M MANUALS IN A SINGLE FILE.

10. IN THOSE INSTANCES WHERE UTILITY POLE SUPPORT IS REQUIRED, THE CONTRACTOR SHALL PROVIDE A MINIMUM 14 DAY NOTIFICATION TO CONSOLIDATED COMMUNICATIONS AND CENTRAL MAINE POWER COMPANY, NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR TEMPORARY BRACING OF UTILITIES.

II. IN THE EVENT THAT DISCREPANCIES OR CONFLICTS BETWEEN MTA SPECIFICATIONS. SPECIAL PROVISIONS, AND PLANS OCCUR WITH THE WATER UTILITIES SPECIFICATIONS, SPECIAL PROVISIONS, AND PLANS, MORE RESTRICTIVE SHALL PREVAIL.

12. THE VERTICAL DATUM SHOWN IS BASED ON THE NORTH AMERICAN VERTICAL

13. SURVEY BASE PLAN IS BASED ON SURVEY DATA FROM PREVIOUS PROJECTS AND AS-BUILT INFORMATION. THE EXACT SIZE AND LOCATION OF ALL EXISTING UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR. HORIZONTAL DATUM IS STATE PLANE COORDINATES, NAD84, MAINE 2000 WEST.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF ALL PROPOSED WORK AS SHOWN ON THE DRAWINGS. THE RESIDENT WILL PROVIDE PROJECT BENCHMARKS THAT DEFINE THE HORIZONTAL CONTROL THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THIS PROVIDED LAYOUT INFORMATION THROUGH THE COURSE OF CONSTRUCTION, REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE RESIDENT.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING AND RESETTING ALL EXISTING PROPERTY MONUMENTATION DISTURBED BY HIS OPERATIONS. THIS WORK SHALL BE DONE BY A LAND SURVEYOR REGISTERED IN THE STATE OF MAINE, AT NO ADDITIONAL COST TO THE OWNER.

16. WRITTEN DIMENSIONS SHALL PREVAIL DO NOT SCALE DISTANCES FROM THE DRAWINGS, REPORT ANY DISCREPANCIES IMMEDIATELY TO THE RESIDENT.

17. THE CONTRACTOR SHALL PROVIDE 21 DAYS NOTICE PRIOR TO ANY TEMPORARY SHUTDOWNS OF THE EXISTING WATERLINE TO THE MAINE TURNPIKE AUTHORITY TO ARRANGE FOR PURCHASE AND DELIVERY OF PORTABLE TOILETS AND BOTTLED

By Date

EROSION CONTROL

I. THE ANTICIPATED EROSION CONTROL DEVICE LOCATIONS ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROPOSE ACTUAL TYPE AND LOCATION OF DEVICES FOR APPROVAL BY THE RESIDENT, ADDITIONAL MEASURES MAY BE PROPOSED BY THE CONTRACTOR DUE TO SITE OR WEATHER CONDITIONS, THE RESIDENT MAY DIRECT THE CONTRACTOR TO IMPLEMENT ADDITIONAL MEASURES.ALL EROSION CONTROL MEASURES BESIDES SILT FENCE SHALL BE INCIDENTAL TO THE CONTRACT. SILT FENCE SHALL NOT BE REPLACED WITH FILTER BERMS.

2. 4 INCH LOAM SHALL BE PLACED ON ALL DISTURBED SLOPE AREAS OR AS DESIGNATED BY THE RESIDENT.

3. UNLESS OTHERWISE NOTED, SEEDING METHOD NO. I SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS. SEEDING METHOD NO. 2 SHALL BE UTILIZED ON ALL

4. MULCH SHALL BE APPLIED IN AREAS SEEDED EXCEPT WHERE EROSION CONTROL BLANKET IS SPECIFIED.

5. ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE ENVIRONMENTAL PROTECTION BEST MANAGEMENT

6. TEMPORARY SEED SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL NOT BE SEEDED WITH FINAL SEED WITHIN 30 DAYS.

7. TEMPORARY STABILIZATION WITH MULCH OR OTHER NON-ERODIBLE COVER IS REQUIRED ON ALL EXPOSED SOILS THAT WILL NOT BE WORKED ON FOR MORE THAN 7 DAYS. AREAS WITHIN 75 FEET OF A WETLAND OR WATERBODY SHALL BE STABILIZED WITHIN 48 HOURS OF THE INITIAL DISTURBANCE OF THE SOIL OR PRIOR TO ANY STORM EVENT. WHICHEVER COMES FIRST.

8. TEMPORARY EROSION CONTROL BLANKET, ITEM 6/3,3/9 SHALL BE INSTALLED IN DITCHES AND DRAINAGE SWALES IN LOCATIONS TO BE DETERMINED BY THE RESIDENT. EROSION CONTROL BLANKET SHALL BE INCIDENTAL TO THE CONTRACT.

9. PRIOR TO REGINNING ANY LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL THE PERIMETER SILT FENCES AND SEDIMENTATION BARRIERS.

10. WATER FROM DEWATERING SHALL BE PUMPED THROUGH A DIRT BAG. DIRT BAG OUTLET LOCATION SHALL NOT BE WITHIN 50' OF AN EXISTING WETI AND. NO. SEPARATE PAYMENT WILL BE MADE TO CONTRACTOR FOR PROVIDING THE DIRT BAG, IT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

II. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE APPROPRIATE DISPOSAL OF FLOWS RESULTING FROM PRECIPITATION AND HIS DEWATERING OPERATIONS.

12. IF GRASS GROWTH IS NOT ACCEPTED PRIOR TO NOVEMBER IST, THE CONTRACTOR SHALL APPLY TWICE THE STANDARD RATE OF TEMPORARY MULCH FOR WINTER STABILIZATION, RE-SEEDING IN THE SPRING MAY BE REQUIRED AS DETERMINED BY THE RESIDENT. SEE MAINE TURNPIKE AUTHORITY SUPPLEMENTAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

EARTHWORK

. WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE, IN ACCORDANCE WITH CHAPTER 404, DEPARTMENT OF ENVIRONMENTAL PROTECTION SOLID WASTE MANAGEMENT RULES.

2. EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA SUBPART P OF 29 CFR PART 1926.650-652 (CONSTRUCTION STANDARDS FOR EXCAVATION).

3. FILL/BORROW SHALL BE COMPACTED TO 90% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR, EXCEPT AS AMENDED BY SPECIAL PROVISION 203. GRANULAR BORROW, AGGREGATE BASE, AND AGGREGATE SUBBASE SHALL BE COMPACTED TO 98% OF THEIR MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR FOR AREAS OF BACKFILL MATERIAL BEHIND ABUTMENTS AND RETAINING WALLS, EXCEPT AS AMENDED BY SPECIAL PROVISION 203. GRANULAR BORROW. AGGREGATE BASE AND AGGREGATE SUBBASE SHALL BE COMPACTED TO 95% IN ALL OTHER LOCATIONS.

4. TOPSOIL STRIPPED IN AREAS OF CONSTRUCTION THAT IS SUITABLE FOR THE REUSE AS LOAM SHALL BE STOCKPILED ON SITE AT A LOCATION TO BE DESIGNATED BY THE OWNER. UNSUITABLE SOIL SHALL BE SEPARATED, REMOVED AND DISPOSED OF AT AN APPROVED DISPOSAL LOCATION OFF SITE.

5. THE CONTRACTOR SHALL ANTICIPATE THAT GROUNDWATER WILL BE ENCOUNTERED DURING CONSTRUCTION AND SHALL INCLUDE SUFFICIENT COSTS WITHIN THEIR BID TO PROVIDE DEWATERING AS NECESSARY. NO SEPARATE PAYMENT SHALL BE MADE TO THE CONTRACTOR FOR DEWATERING.

6. ALL SITE DISTURBANCE SHALL REMAIN WITHIN THE GRADING LIMITS SHOWN ON THE PLANS, NO IMPACT TO WETLANDS ARE AUTHORIZED.

7. UNATTENDED OPEN TRENCHES SHALL BE MADE INACCESSIBLE TO PEDESTRIAN TRAFFIC AT THE END OF EACH DAY. UNATTENDED OPEN TRENCHES SHALL NOT BE ALLOWED ON FRIDAYS, SATURDAYS OR SUNDAYS, ALL METHODS FOR CREATING INACCESSIBLE AREAS SHALL BE SUBMITTED FOR REVIEW AND APPROVED BY THE RESIDENT, ALL ASSOCIATED MATERIALS AND WORK SHALL BE INCIDENTAL TO THE CONTRACT.

<u>UTILITIES</u>

I. EXISTING UTILITIES ON THESE PLANS WERE COMPILED FROM FIELD SURVEY AND VARIOUS OTHER SOURCES. LOCATIONS ARE NOT GUARANTEED TO BE ACCURATE NOR IS IT GUARANTEED THAT ALL UTILITIES ARE SHOWN, NO SEPARATE OR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR DUE TO ANY VARIANCE BETWEEN THE DATA SHOWN ON THE PLANS AND THE ACTUAL FIELD CONDITIONS ENCOUNTERED NO WORK SHALL BE STARTED UNTIL THE OWNERS OF THE VARIOUS UTILITIES ARE NOTIFIED BY THE CONTRACTOR OF THE PROPOSED CONSTRUCTION. THE CONTRACTOR IS ALSO REQUIRED TO CONTACT DIG SAFE AT 1-888-344-7233, 811, OR WWW.DIGSAFE.COM IN CONFORMANCE WITH ALL STATE AND LOCAL LAWS, ORDINANCES, AND

2. THE MAINE TURNPIKE AUTHORITY IS A NON-MEMBER UTILITY OPERATOR AND IS NOT REGISTERED WITH THE DIG SAFE SYSTEM, THE CONTRACTOR SHALL CONTACT ALL NON-MEMBERS THROUGH WWW.OKTODIG.COM OR AS OTHERWISE REQUIRED BY THE MAINE PUBLIC UTILITIES COMMISSION. ALL PROPOSED EXCAVATION LOCATIONS SHALL BE MARKED AT THE TIME OF NOTIFICATION, NO EXCAVATION SHALL BE PERMITTED UNTIL THE AUTHORITY HAS LOCATED AND MARKED ITS' UNDERGROUND UTILITIES. THE RESIDENT ENGINEER SHALL BE PROVIDED AN ELECTRONIC COPY OF ALL DIG SAFE TICKETS WITHIN 24 HOURS OF THEIR RELEASE FOR PROJECT NOTIFICATIONS AND 3RD PARTY UTILITY LOCATOR COORDINATION.

3. ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE CONTRACTOR UNLESS NOTED OTHERWISE, EACH UTILITY WILL NEED TO BE NOTIFIED A MINIMUM OF 14 DAYS PRIOR TO ANY WORK BEING DONE TO THEIR FACILITY.

4. THE UTILITIES INVOLVED IN THIS CONTRACT ARE:

THE MAINE TURNPIKE AUTHORITY CENTRAL MAINE POWER COMPANY CONSOLIDATED COMMUNICATIONS

5. SEE SPECIFICATIONS FOR REQUIRED UTILITY COORDINATION.

6. EXCEPT AS ALLOWED IN THE PROJECT SPECIFICATIONS OR APPROVED BY THE RESIDENT, THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES IN SERVICE AT ALL TIMES.

7. IF THE CONTRACTOR DAMAGES UTILITY SERVICES, THEY SHALL IMMEDIATELY NOTIFY THE RESPECTIVE UTILITY COMPANY AND SHALL IMMEDIATELY REPLACE THEM AT THE CONTRACTOR'S OWN EXPENSE.

8. AT ALL LOCATIONS WHERE PROPOSED UTILITIES ARE TO CONNECT TO EXISTING UTILITIES, AND PRIOR TO ORDERING MATERIALS, THE CONTRACTOR SHALL EXCAVATE A TEST PIT TO VERIFY THE EXISTING UTILITY'S CONFIGURATION, SIZE, NUMBER, MATERIAL, ELEVATION, AND ANY OTHER ASPECTS AND CONDITIONS THAT COULD IMPACT THE PROPOSED UTILITY CONNECTION. THE CONTRACTOR SHALL NOTIFY THE RESIDENT A MINIMUM 5-DAYS IN ADVANCE OF PERFORMING A TEST PIT. THE CONTRACTOR SHALL INFORM THE RESIDENT IMMEDIATELY OF ANY DISCREPANCIES.

9. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE RESIDENT FOR RESOLUTION OF THE

IO. ALL EXISTING PIPING AND STRUCTURES EXPOSED DURING EXCAVATION SHALL BE ADEQUATELY SUPPORTED, BRACED OR OTHERWISE PROTECTED

II. THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN EXCAVATING AND BACKFILLING NEAR EXISTING UTILITIES, INCLUDING THE USE OF HAND EXCAVATION WHERE NEEDED.

12. WHERE THE PROPOSED WATER PIPING ALIGNMENT IS IN CONFLICT WITH EXISTING UTILITIES, DRAINS AND/OR OTHER OBSTRUCTIONS TO BE MAINTAINED, THE WATER MAIN ALIGNMENT, HORIZONTAL AND/ OR VERTICAL, SHALL RE ADJUSTED USING APPROPRIATE FITTINGS AND RESTRAINED AS DIRECTED. IF POSSIBLE, THE WATER MAIN SHALL BE CONSTRUCTED OVER

13. CONTACT THE UTILITY COMPANIES EARLY ENOUGH TO ALLOW SUFFICIENT TIME FOR THE UTILITY COMPANIES TO ACCOMPLISH THE WORK THEY ARE REQUIRED TO PERFORM.

14. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EMERGENCY BACKUP WATER SERVICES ON SITE DURING CONSTRUCTION. SHORT SERVICE OUTAGES ARE PERMITTED, SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

ESTIMATED QUANTITIES									
ITEM NO.	DESCRIPTION	TOTAL QUANTITY	UNIT						
629.05	HAND LABOR, STRAIGHT TIME	20	HR						
631.12	331.12 ALL PURPOSE EXCAVATOR								
671/70	(INCLUDING OPERATOR)	10	110						
	TRUCK-LARGE (INCLUDING OPERATOR)	10	HR						
631.36	FOREMAN	10	HR						
655,501	CORRTECH CATHODIC PROTECTION ALLOWANCE	1	LS						
655.502	PASSIVE CATHODIC PROTECTION	1	LS						
	AT NEW PIPE INTERSECTIONS								
655.503	PASSIVE CATHODIC PROTECTION	7	EA						
	ALONG EXISTING PIPE								
<i>656.632</i>	30 INCH TEMPORARY SILT FENCE	1,200	LF						
<i>659.10</i>	MOBILIZATION	1	LS						
803.01	TEST PIT EXCAVATION AND BACKFILL	3	EΑ						
823.3251	8-INCH GATE VALVE AND VALVE BOX	1	EΑ						
825.3221	2-INCH CORPORATION	1	EΑ						
825.332	2-INCH CURB STOPS	1	EΑ						
825 . 422	2-INCH POLYETHELYENE SERVICE PIPE	25	LF						
825.61	IO-INCH HDPE WATER PIPE	800	LF						
827.33	TRENCH INSULATION	20	LF						

No.

Scale

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Revision

Designed by:

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E Βv 04\22 Checked Designed 04\22 In Charge of TRC 04\22

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MTA PROJECT MANAGER: Ryan J. Barnes, P.F.

THE GOLD STAR MEMORIAL HIGHWAY

WEST GARDINER WATERLINE REPLACEMENT GENERAL NOTES AND ESTIMATED QUANTITIES

SHEET NUMBER: GN-01

CONTRACT:2022.14



PIPELINE GENERAL NOTES

- 1. WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ADAPTERS, FITTINGS, AND ADDITIONAL PIPE AS REQUIRED TO COMPLETE THE CONNECTION. CONTRACTOR SHALL VERIFY LOCATION, ELEVATION, ORIENTATION AND MATERIAL OF CONSTRUCTION. TEST PITS SHALL BE USED AS REQUIRED.
- 2. ANY UNDERGROUND STRUCTURES, CABLES, AND PIPELINES LOCATED ADJACENT TO THE TRENCH EXCAVATIONS SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE TRENCH IS BACKFILLED. DAMAGE TO ANY SUCH STRUCTURES, CABLES, AND PIPELINES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNERS OF THE STRUCTURES,
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF THE NEW WATER MAIN. LAYOUT SHALL BE REVIEWED AND ACCEPTED BY THE MAINE TURNPIKE AUTHORITY (MTA). THE NEW WATER MAIN MUST BE LOCATED WITHIN THE RIGHTS-OF-WAY SHOWN ON THE DRAWINGS.
- MINIMUM DEPTH OF COVER SHALL BE 6'-0" AND MAXIMUM DEPTH OF COVER SHALL BE 7'-0" UNLESS SHOWN OTHERWISE ON THE DRAWINGS. THE NEW MAIN SHALL GENERALLY FOLLOW THE GROUND CONTOUR, HOWEVER, ABRUPT CHANGES IN GRADE SHALL BE AVOIDED. AT LOCAL HIGH POINTS OR WHERE AIR RELEASE VALVES ARE SHOWN, THE CONTRACTOR SHALL SLOPE NEW MAIN AS NEEDED TO MAINTAIN HIGH POINT AT AIR RELEASE VALVE, DUE TO LITHLITY CONFLICTS THE DEPTH OF COVER SHALL NOT BE LESS THAN 4'-0" AND 2" RIGID BOARD INSULATION SHALL BE LISED AS DETAILED. RIGID BOARD INSULATION SHALL BE 40PSI COMPRESSIVE STRENGTH, DOW STYROFOAM HIGHLOAD 40, CERTIFOAM 40 OR EQUAL.
- 5. ALL BENDS, TEES, REDUCERS, HYDRANTS AND PLUGS SHALL BE RESTRAINED BY USING CONCRETE THRUST BLOCKS AND GRIP-RINGS OR OTHER METHOD AS SHOWN ON THE DRAWINGS
- 6. TEST PRESSURES FOR THE COMBINATION PRESSURE AND LEAKAGE TESTS SHALL BE 150 PSI. TEST DURATION SHALL BE TWO HOURS
- 7. CONNECTIONS TO EXISTING WATER MAIN SHALL BE COORDINATED WITH MTA.
- 8. ALL WATER MAINS THAT ARE TO BE LEFT IN PLACE SHALL BE CAPPED WITH A M.J. CAP OR PLUG
- PLANNED SHUTDOWNS OF 4 HOURS, OR LESS ARE ACCEPTABLE WITH A MINIMUM OF 14 DAYS NOTICE TO THE MTA FOR COORDINATION. ALL SHUTDOWNS SHALL BE SUBJECT TO DATE AND TIME

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WRIGHT-PIERCE 11 Bowdoin Mill, Suite 140 Topsham, ME 04086 TEL (207) 725-8721



WEST GARDINER WATERLINE REPLACEMENT GENERAL NOTES, LEGEND, ABBREVIATIONS, AND SHEET KEY

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DADADA

LEGEND

PROPERTY/ROW LINI

SETBACK LINE

EASEMENT LINE

CENTERLINE

EDGE OF PAVEMENT

CURBING

EDGE OF GRAVEL

EDGE OF CONCRETE

CONTOUR BUILDING

STONEWALL

TREELINE

CHAIN LINK FENCE STOCKADE FENCE

BARB WIRE FENCE

RETAINING WALL

GUARDRAIL

SEWER

SEWER FORCE MAIN

WATER

STORM DRAIN

UNDERDRAIN

CULVERT UNDERGROUND ELECTRIC

OVERHEAD ELECTRIC

IRON PIPE/REBAR

DRILLHOLE

MONUMENT

SURVEY CONTROL POINT

SPOT ELEVATION

SEWER MANHOLE

DRAINAGE MANHOLE

CATCH BASIN

ELECTRIC MANHOLE

TELEPHONE MANHOLE

GATE VALVE

CURB STOP

YARD HYDRANT

HYDRANT

UTILITY POLE

UTILITY POLE W/ GUY

UTILITY POLE W/ LIGHT

LIGHT POLE

BOLLARD

FLAGPOLE

CONIFEROUS TREE

DECIDUOUS TREE

SHRUB EDGE OF WATER

STREAM EDGE OF WETLANDS

> FLOODPLAIN WETLANDS

DRAINAGE FLOW

DRAINAGE SWALE

PAVEMENT MARKINGS SIGN MAILBOX

TEMPORARY BENCH MARK TEST PIT

TEST BORING

TEST PROBE

MONITORING WEL

LIMIT OF WORK SILT FENCE

RIPRAP

RAIIROAD

MATCHLINE

ROCK OUTCROP

TATATATA

PROPOSED

123

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 $\sim\sim$

8"W

6"UD

____12" CMP

-OHE -

134.5

●SMH

EMH

EXISTING

---122---

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<u>4"</u>FM─ —

_ = 12" CMP = = =

-OHF -

☐ EMH

TMH

DIAMETER

NUMBER

APPROVED

BUILDING

CENTER

CAST IRON

CENTERLINE CORRUGATED METAL PIPI

CLEANOUT

CUBIC YARD

DRAIN MANHOLE

ELECTRIC MANHOLE FORCE MAIN

CORNER

DRAWING

FEET

FI FVATION

HYDRANT INFLUENT

INVERT

POLINDS

MAXIMUN

MINIMUM

NOT TO SCALE

OUTSIDE DIAMETER

PERFORATED CLAY

POINT OF TANGENCY

POLYVINYL CHLORIDE

ROOF DRAIN

STORM DRAIN

SQUARE FEET SANITARY SEWER MANHOLI

SANITARY SEWER

TOP OF STRUCTURE TYPICAL

TEMPORARY BENCH MARI

UNDERGROUND ELECTRIC

SQUARE

STATION

THICKNESS

UNDERDRAIN

UNDERGROUND

VITRIFIED CLAY

POTABLE WATER

REQUIRED

NORTH

IRON ROD FOUNI

NATIONAL GEODETIC VERTICAL DATUM

NOT AVAILABLE/APPLICABLE

POUNDS PER SQUARE FOOT

POUNDS PER SOUARE INCH PRIMARY SLUDGE

REINFORCED CONCRETE PIPE

CATCH BASIN

CUBIC FEET PER SECOND

#, NO APP'D BLDG

CFS CI

co

COR

DMH

DWG EL

EMH

LBS

MAX

MIN

NGVD

N/A NTS

OD PC PSF PSI

RD

SQ

STA

TOS TYP UD UG UGE

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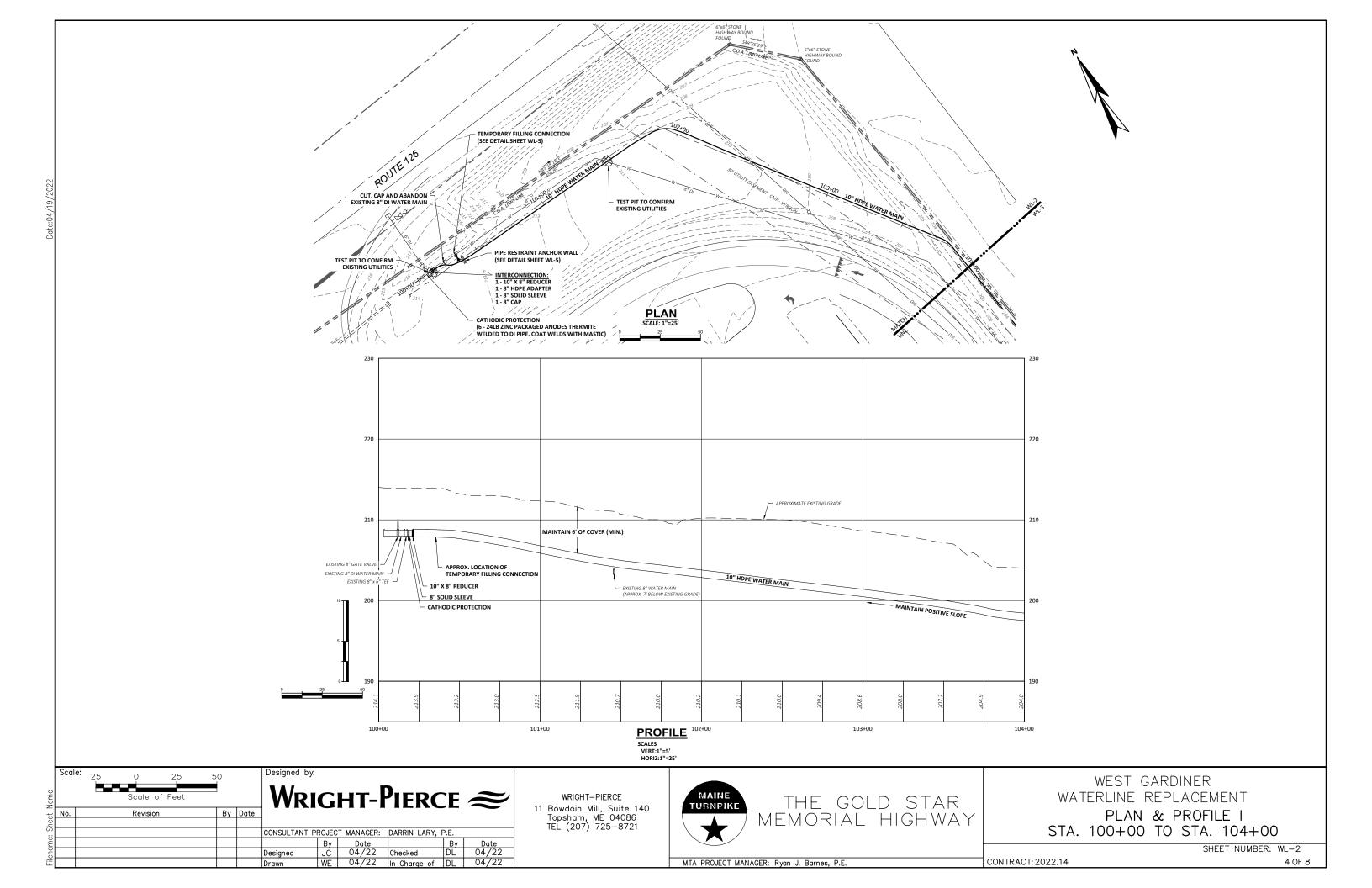
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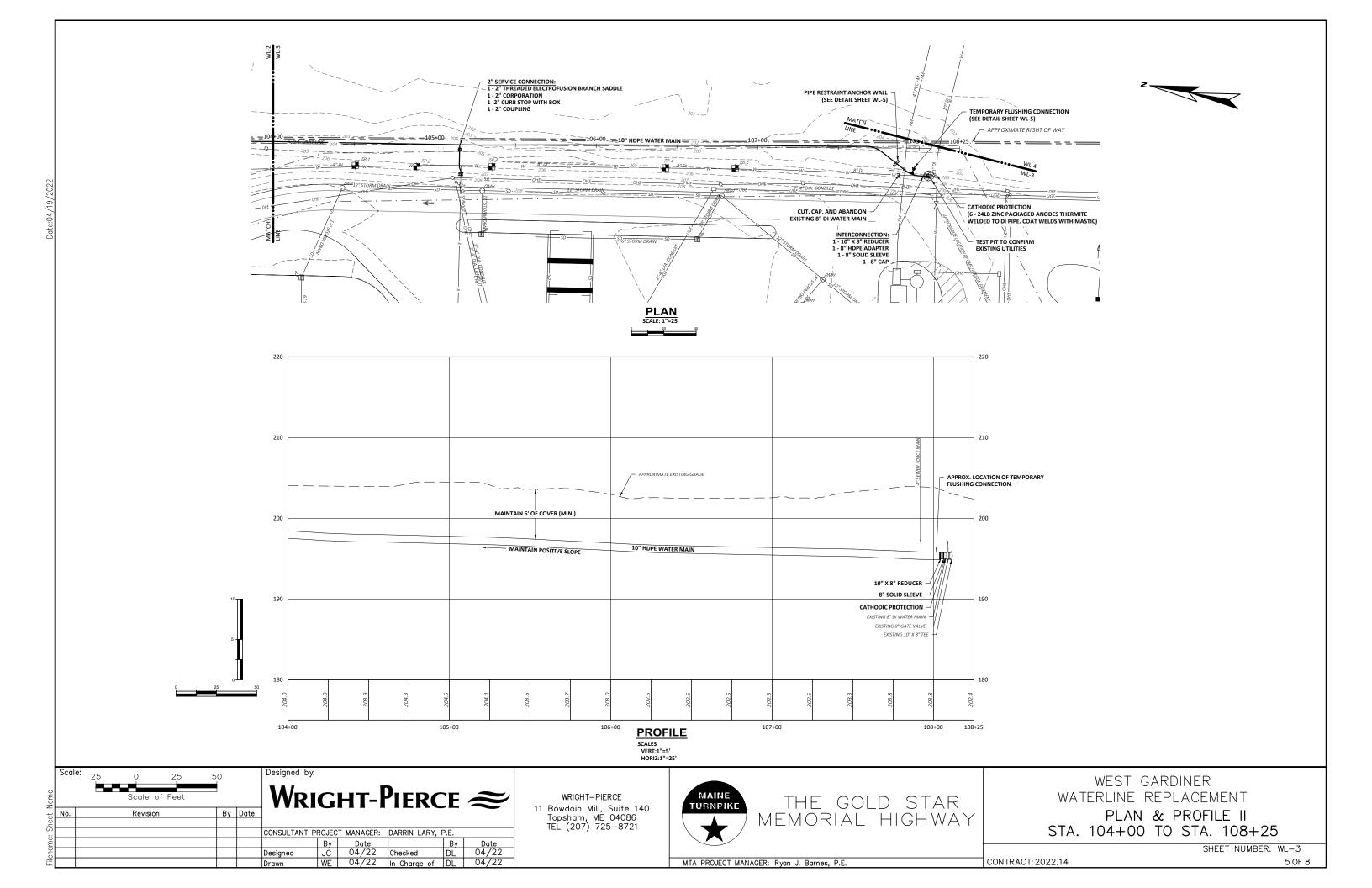
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MTA PROJECT MANAGER: Ryan J. Barnes, P.E.

SHEET NUMBER: WL-1 CONTRACT: 2022.14 3 OF 8







NOTES:

1. PITS TO BE FIELD LOCATED TO EXCAVATE EVERY OTHER DUCTILE IRON PIPE JOINT TO ALLOW FOR CATHODIC PROTECTION ANODE WELDING.

2. ACCESS FOR ALL PIT EXCAVATIONS SHALL BE FROM SERVICE PLAZA. NO ACCESS WILL BE ALLOWED FROM 1-295 RAMP.

PLAN SCALE: 1"=25"

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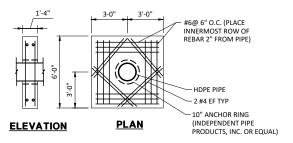
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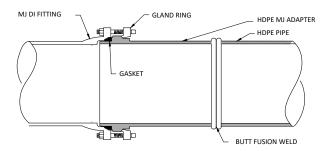
WEST GARDINER WATERLINE REPLACEMENT CATHODIC PROTECTION LAYOUT STA. 10+00 TO STA. 12+50

SHEET NUMBER: WL-4

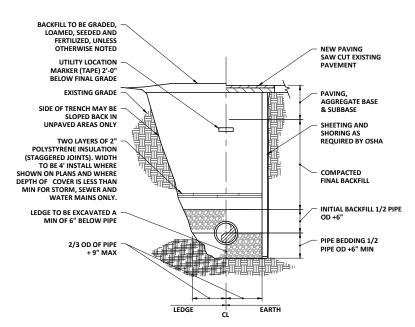
MTA PROJECT MANAGER: Ryan J. Barnes, P.E.



PIPE RESTRAINT ANCHOR WALL



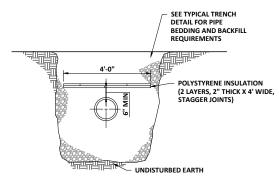
HIGH DENSITY POLYETHYLENE PIPE TO MECHANICAL JOINT CONNECTION DETAIL



- NOTES:

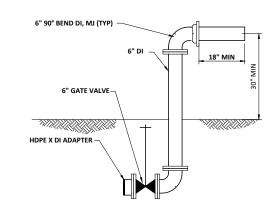
 1. ALL EXCAVATION MUST MEET OSHA STANDARDS.
- 2. INSTALL 3' LONG IMPERVIOUS MATERIAL DAM IN BEDDING/INITIAL BACKFILL MATERIAL EVERY 100 AND WHERE SHOWN ON PLANS TO PREVENT TRENCH GROUNDWATER FROM BEING CHANNELED ALONG BEDDING/INITIAL BACKFILL.
- 3. SEE SPECIFICATIONS FOR BEDDING AND BACKFILL REQUIREMENTS.
- 4. IMPERVIOUS DAM MATERIAL: THE IMPERVIOUS DAM MATERIAL SHALL BE UNIFORM NATURAL OR SELECTED COHESIVE SOIL WITH MINIMUM OF 30 PERCENT OF THE MATERIAL PASSING A NO. 200
 SIEVE. IT SHALL NOT CONTAIN VEGETATION, MASSES OF ROOTS, INDIVIDUAL ROOTS LARGER THAN 6 INCHES LONG OR 1/8 INCH IN DIAMETER OR OTHER POROUS OR ORGANIC MATTER.

PIPE TRENCH

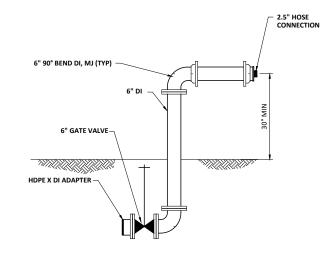


NOTE: TRENCH PIPE INSULATION TO BE USED WHERE DEPTH OF COVER IS LESS THAN 4' OR AS DIRECTED BY THE ENGINEER

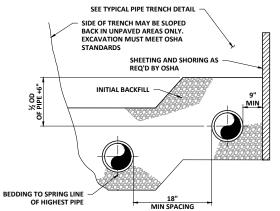
TRENCH PIPE INSULATION



TEMPORARY FLUSHING CONNECTION DETAIL



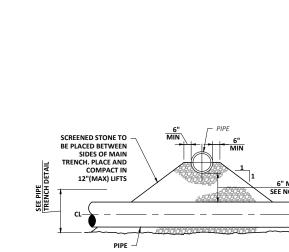
TEMPORARY FILLING CONNECTION DETAIL



NOTES:

- 1. THIS SECTION IS SHOWN FOR TWO PIPES. IT IS TO BE USED FOR ANY
- 2. SEE SPECIFICATIONS FOR BEDDING AND BACKFILL MATERIALS AND COMPACTED BACKFILL REQUIREMENTS.
- 3. PIPE SPACING SHOWN IS TYPICAL UNLESS OTHERWISE NOTED.
- 4. SEE SPECIFICATIONS SECTION 01150 MEASUREMENT AND PAYMENT FOR

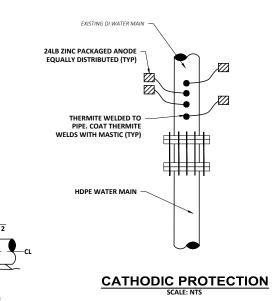




 $\frac{\text{NOTES:}}{1.\quad \text{JOINTS ON EACH PIPE TO BE AS FAR FROM INTERSECTION AS POSSIBLE.}}$

2. IF LESS THAN 12", FLOWABLE FILL MAY BE REQUIRED RATHER THAN SCREENED STONE TO FACILITATE PROPER PIPE BEDDING AND COMPACTION AT ENGINEER'S DISCRETION. REFER TO SPECIFICATIONS SECTION 02225 FOR ADDITIONAL INFORMATION.





	Scal	e:	WRIGHT-PIERCE \approx							
Name										
	No.	Revision	Ву	Date]					
: Sheet					CONSULTANT P	ROJEC	T MANAGER:	DARRIN LARY, F	P.E.	
me:						Ву	Date		Ву	Date
Filenam					Designed	JC	04/22	Checked	DL	04/22
Ē					Drawn	WE	04/22	In Charge of	DL	04/22

WRIGHT-PIERCE

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WEST GARDINER WATERLINE REPLACEMENT

DETAILS I

SHEET NUMBER: WL-5

CONTRACT: 2022.14

MTA PROJECT MANAGER: Ryan J. Barnes, P.E.

