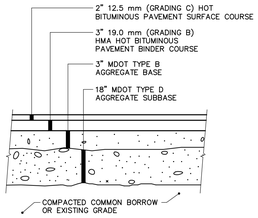
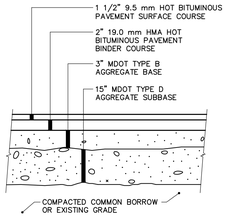


UNION AND FORE STREET

BITUMINOUS PAVEMENT REPAIR SECTION COMMERCIAL STREET (MINOR ARTERIAL)

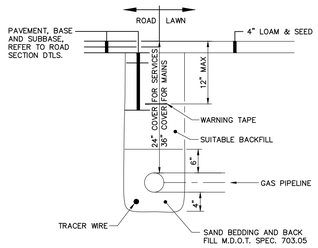
N.T.S.



UNION AND FORE STREET

BITUMINOUS PAVEMENT REPAIR SECTION CENTER STREET (LOCAL)

N.T.S.

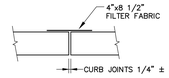


NOTE:

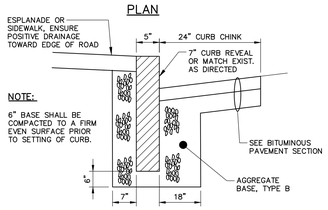
CONTRACTOR SHALL PERFORM EXCAVATION AND PROVIDE BEDDING, BACKFILL, AND SURFACE RESTORATION; UNITIL SHALL PROVIDE PIPING, VALVES AND FITTINGS. CONTRACTOR SHALL COORDINATE ALL WORK WITH UNITIL. INC.

NATURAL GAS PIPE

N.T.S.



PLAN



NOTE:

6" BASE SHALL BE COMPACTED TO A FIRM EVEN SURFACE PRIOR TO SETTING OF CURB.

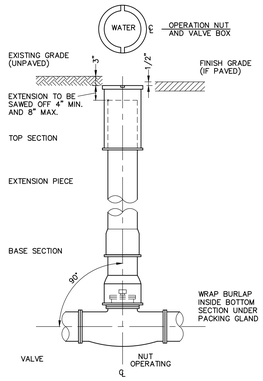
SECTION

CURB TYPE 1 ON CURVES			
TYPE	RADIUS OF CURVE	LENGTH	STONE IS CUT OR CAST
1	0' TO 60' INCL.	4' MIN.	ARC TO FIT CURVE
	OVER 60' TO 160'	4' TO 6'	STRAIGHT PIECES

TYPICAL NEW AND RESET CURB INSTALLATION

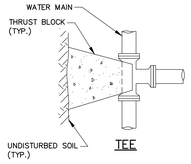
N.T.S.

NOTE: AGGREGATE TYPES PER MDOT SECTION 304.02

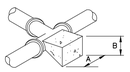


GATE VALVE WITH VALVE BOX

N.T.S.



TEE



TEE

NOTES:

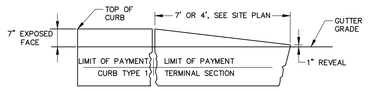
1. CONCRETE FOR ALL THRUST BLOCKS TO BE MINIMUM 3,000 PSI., 28 DAY STRENGTH, TYPE I CEMENT, 3/4" STONE.
2. WHERE POSSIBLE, CONSTRUCT THRUST BLOCKS AGAINST UNDISTURBED SOIL. WHERE NOT POSSIBLE, PLACE FILL BETWEEN THE THRUST BLOCK AND THE UNDISTURBED SOIL COMPACTED TO 90% STANDARD PROCTOR DENSITY.
3. WRAP FITTINGS WITH POLYETHYLENE PRIOR TO CONSTRUCTING THRUST BLOCKS. NO JOINTS SHALL BE COVERED WITH CONCRETE.
4. THRUST BLOCK DIMENSIONS ARE BASED ON A MAXIMUM WATER MAIN PRESSURE OF 150 PSI.

TABLE 1: 4" THRU 10" FITTINGS

SOIL TYPE	TEES		BENDS	
	A	B	A	B
SOFT CLAY	48"	24"	48"	24"
SAND	24"	24"	24"	24"
GRAVEL	24"	18"	24"	18"

TYPICAL THRUST BLOCK DETAIL

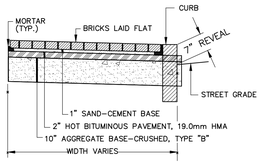
N.T.S.



TERMINAL SECTION TYPE "1"

TERMINAL CURB SECTION

N.T.S.



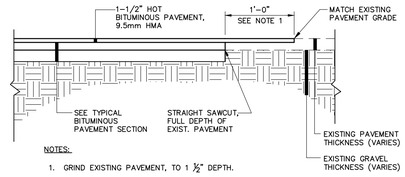
SECTION

NOTE:

SEE LANDSCAPE PLANS FOR GRANITE PAVER SECTIONS.

BRICK SIDEWALK DETAIL

N.T.S.



NOTES:

1. GRIND EXISTING PAVEMENT, TO 1 ½" DEPTH.
2. PROVIDE BITUMINOUS TACK COAT ON VERTICAL AND HORIZONTAL SURFACES PRIOR TO PAVING.
3. DETAIL APPLICABLE TO PAVEMENT BUTT JOINTS AT ROADWAY WORK LIMITS. REFER TO PIPE INSTALLATION DTL. OR BITUMINOUS PAVEMENT SECTION DTLS. FOR TRENCH REPAIR REQUIREMENTS.

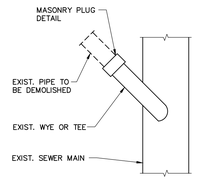
PAVEMENT BUTT JOINT DETAIL

N.T.S.

PIPE INSTALLATION DETAIL – NOTES

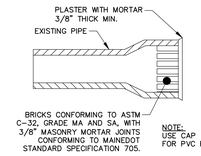
1. IN PAVED AREAS, DEPTHS OF GRAVEL AND HOT MIX ASPHALT PAVEMENT SHALL MATCH THE GREATER OF EXISTING CONDITIONS OR THE REQUIREMENTS FOR THE CORRESPONDING STREET CLASSIFICATION.
2. DIMENSION "B" SHALL BE SUFFICIENT TO ALLOW CRUSHED STONE BEDDING TO BE PLACED AND COMPACTED UNDER THE HAUNCHES OF THE PIPE; BUT IN ALL CASES "B" SHALL BE AT LEAST 9".
3. DIMENSION "A" SHALL BE BASED ON PIPE DIAMETER, AS SET FORTH IN THE FOLLOWING TABLE.

PIPE DIAMETER, "D" (INCHES)	MAX. TRENCH WIDTH, "A" (FEET)
6	4.0
8	4.0
10	4.0
12	4.0
15	4.0
18	5.0
21	5.0
24	5.5
27	6.0
30	6.0
36	7.0
42	8.0
48	8.0



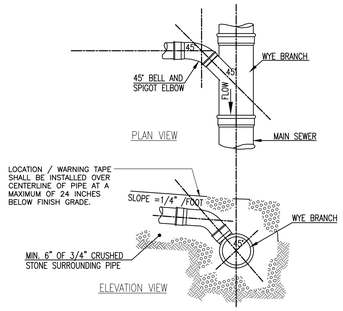
MASONRY PLUG @ MAIN

N.T.S.



MASONRY PLUG DETAIL

N.T.S.



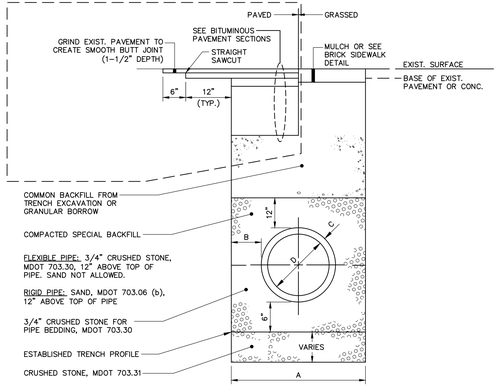
TYPICAL SEWER LATERAL WYE CONNECTION DETAILS

N.T.S.

NOTE: FOR INSERTA TEE CONNECTIONS TO SEWER AND STORMDRAIN MAINS, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.

NOTES:

ANY ALTERNATE TRENCHING SHALL BE APPROVED IN ADVANCE BY THE CITY OF PORTLAND, DEPARTMENT OF PUBLIC SERVICES.



PIPE INSTALLATION DETAIL

N.T.S.

PERMIT SET - NOT FOR CONSTRUCTION

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HKS

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DALLAS, TX 75201-4240

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PORTLAND, MAINE 04101

OWNER
FATHOM CC, LLC
80 EXCHANGE STREET, SUITE 400
PORTLAND, MAINE 04101

OWNER'S CONSTRUCTION MANAGER
WRIGHT-RYAN CONSTRUCTION, INC.
10 DANFORTH STREET
PORTLAND, MAINE 04101

OWNER'S CIVIL ENGINEER
WOODWARD & CURRAN
41 HUTCHINS DRIVE
PORTLAND, MAINE 04102

OWNER'S INTERIOR ARCHITECT
EALAIN STUDIO.
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PORTLAND, MAINE 04101

OWNER'S LANDSCAPE ARCHITECT
CARROLL ASSOCIATES LANDSCAPE ARCHITECT
217 COMMERCIAL STREET, SUITE 200
PORTLAND, MAINE 04101

CENTER STREET BOUTIQUE HOTEL PORTLAND, MAINE

STATE OF MAINE
LAUREN JANE SWETT
12284
LICENSED
PROFESSIONAL ENGINEER

12/21/2018

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INTERIM REVIEW ONLY

These documents are incomplete, and are released for interim review only and are not intended for regulatory approval, permit, or construction purposes.

Architect:
Arch. Reg. No.:
Date:

KEY PLAN

DATUM ELEVATION 12'-0"
(MSL) = 0.72 NGVD1929 = 0.70 Portland City Datum

REVISION

NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER

DATE
12/21/2018

ISSUE

SHEET TITLE
CIVIL DETAILS 2

SHEET NO.
C3.03

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