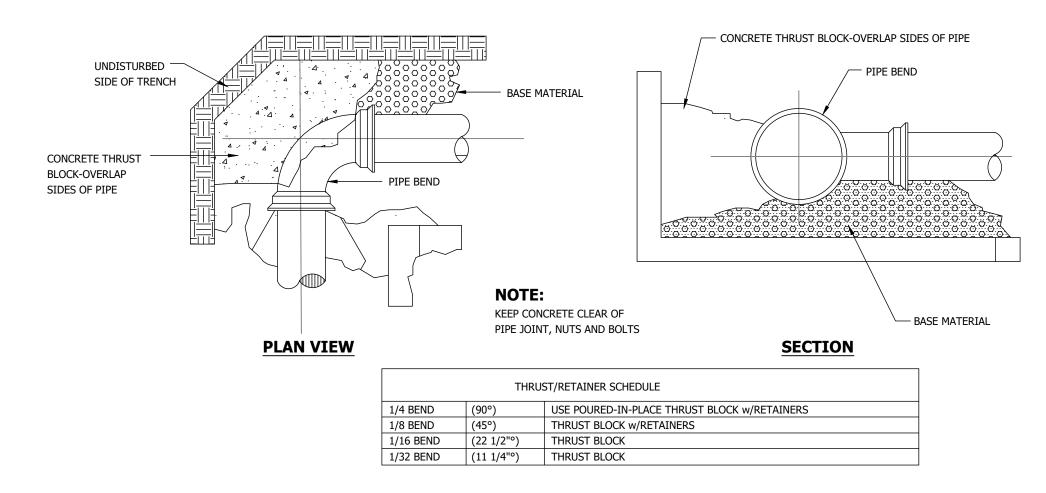


TYPICAL LATERAL WYE CONNECTION



FORCE MAIN THRUST BLOCK PLACEMENT ON VERTICAL & HORIZONTAL BENDS NOT TO SCALE

FERNCO ADAPTOR -

NOTE: REMOVE WATERPROOFING FROM STRUCTURE BEFORE APPLYING MORTAR. WATERPROOF AGAIN AFTER MORTAR HAS SET.

PRECAST RUBBER BOOT

EXISTING CONCRETE OR VITRIFIED CLAY PIPE STUB

NEW PLASTIC PIPE

TIE BAND

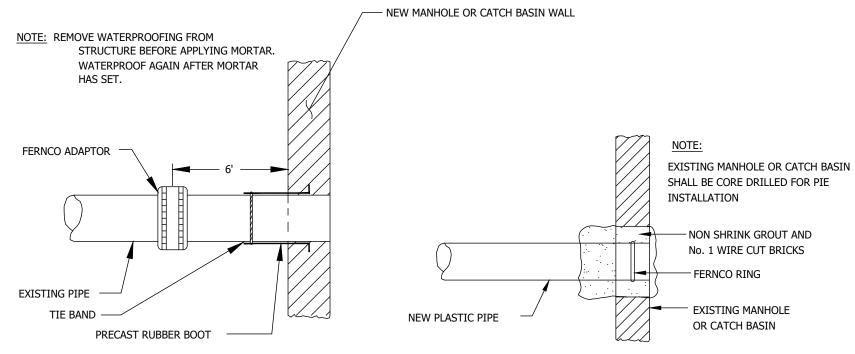
NEW PLASTIC PIPE

METHOD 2 - NEW CONSTRUCTION

METHOD 4 - NEW PIPE TO EXISTING STRUCTURE STUB

EXISTING MANHOLE

OR CATCH BASIN WALL



METHOD 1 - EXISTING PIPE INTO NEW STRUCTURE

METHOD 3 - NEW PIPE INTO EXISTING STRUCTURE

PIPE CONNECTION DETAILS

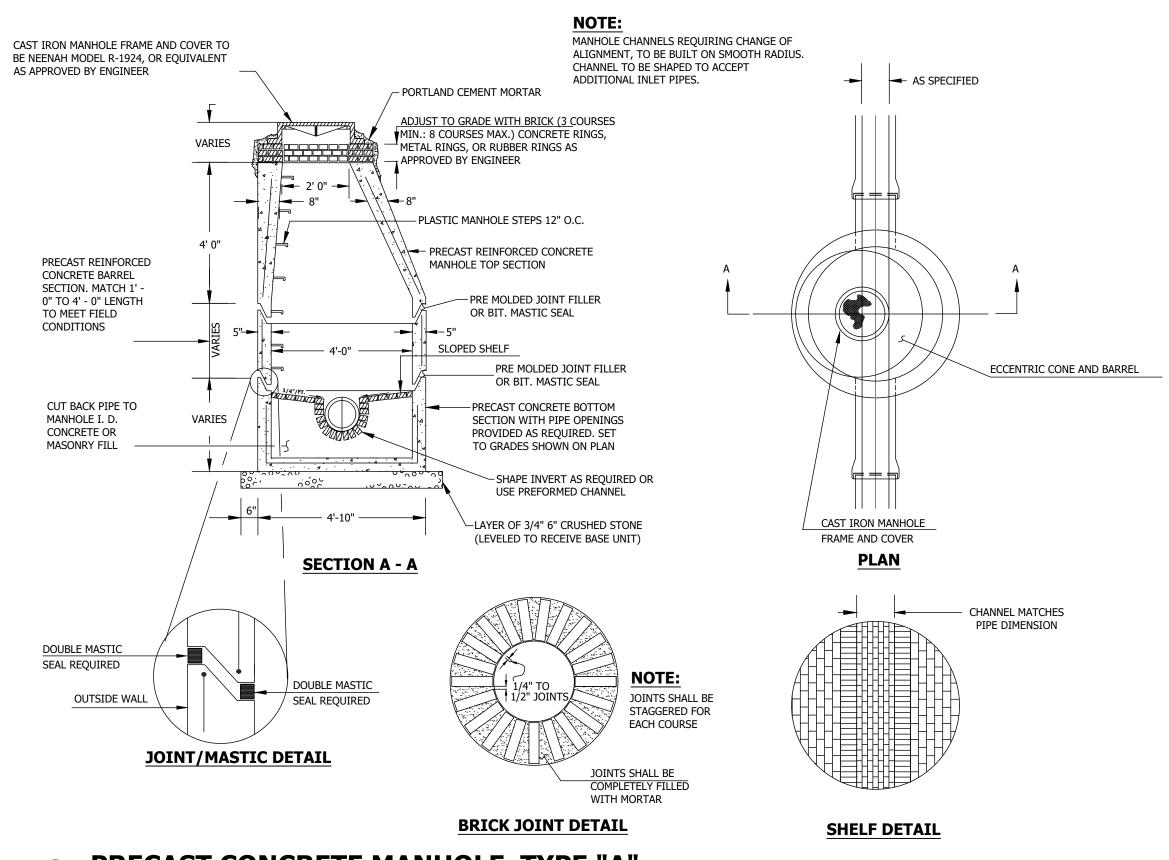
ALTERNATIVE CONSTRUCTION METHODS OR PAYMENT METHODS SHALL BE APPROVED IN ADVANCE BY THE CITY. IN PAVED AREAS, DEPTHS OF GRAVEL AND HOT MIX ASPHALT PAVEMENT SHALL MATCH THE GREATER OF EXISTING CONDITIONS OR THE REQUIREMENTS FOR THE CORRESPONDING STREET CLASSIFICATION. PAVED AREAS -DIMENSION B SHALL BE SUFFICIENT TO ALLOW CRUSHED STONE BEDDING TO BE PLACED AND COMPACTED UNDER THE HAUNCHES OF THE PIPE; BUT IN ALL CASES AGGREGATE SUBBASE COURSE - GRAVEL, TYPE "D" ———— DIMENSION B SHALL BE AT LEAST 9". AGGREGATE BASE COURSE - CRUSHED, TYPE "B" 4. DIMENSION A IS THE MAXIMUM WIDTH ALLOWED FOR CALCULATING PAY HOT BITUMINOUS PAVEMENT GRADING "B" ----QUANTITIES UNDER GRANULAR BORROW, CRUSHED STONE, STRUCTURAL HOT BITUMINOUS PAVEMENT GRADING "C" EARTH EXCAVATION, AND STRUCTURAL ROCK EXCAVATION. DIMENSION A 4" LOAM AND SEED SHALL BE BASED ON PIPE DIAMETER D, AS SET FORTH GRIND TO PROPER DEPTH IN THE FOLLOWING TABLE. PIPE DIAMETER, D MAX. TRENCH WIDTH, A HALF OF MAX. PAYMENT WIDTH PLUS 12" FOR TRENCH PAVEMENT REPLACEMENT COMMON BACKFILL FROM TRENCH EXCAVATION (INCIDENTAL) OR GRANULAR BORROW (IF ORDERED) 3/4" CRUSHED STONE OR SAND 12" ABOVE TOP OF PIPE. 3/4" CRUSHED STONE FOR PIPE BEDDING TO PIPE SPRINGLINE ESTABLISHED TRENCH PROFILE DEPTH OF BITUMINOUS PAVEMENT AND AGGREGATE COURSES SHALL BE DETERMINED BY STREET 2" CRUSHED STONE ANY ALTERNATE TRENCHING OR PAYMENT METHODS SHALL BE APPROVED

<u>NOTES</u>

IN ADVANCE BY THE CITY OF PORTLAND, DEPARTMENT OF PUBLIC SERVICES.

TYPICAL PIPE TRENCH INSTALLATION

NOT TO SCAL



PRECAST CONCRETE MANHOLE TYPE "A" NOT TO SCALE

THIS DOCUMENT IS ISSUED FOR REVIEW PURPOSES ONLY AND NOT FOR CONSTRUCTION.

Blais civil engineers

27 GORHAM ROAD SUITE 207 SCARBOROUGH, ME 04074 T: (207) 730-7200 W: WWW.BLAISCE.COM

REV.DESCRIPTIONDA1.REVISED PER CITY COMMENTS1/172.REVISED PER CITY COMMENTS3/8/3.REVISED PER CITY COMMENTS4/4/4.REVISED PER CITY COMMENTS7/10



E DETAILS III
CONGRESS STREET

PROJECT:

ISSUED DATE: 7/10/17
DESIGNED BY: JDY
DRAWN BY: DRH
CHECKED BY: SGB
PROJECT NUMBER: 16123

C-303

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