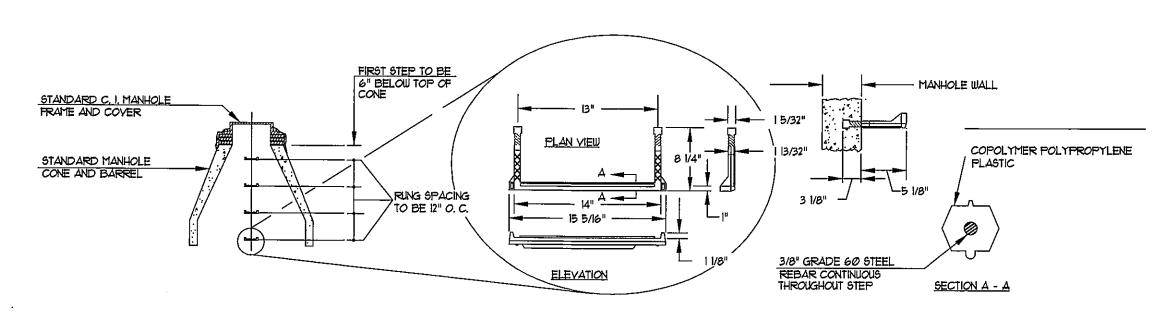
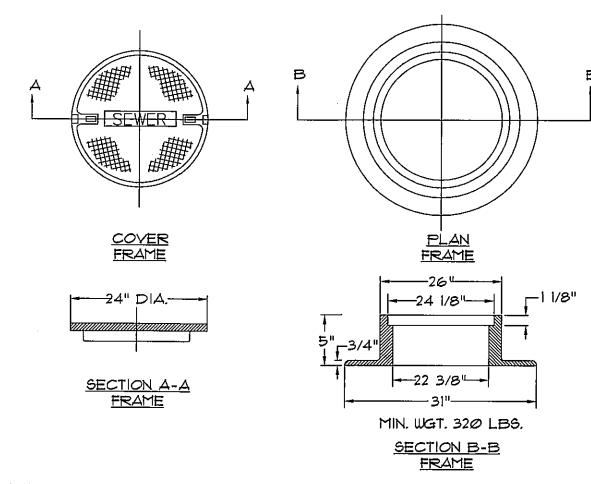


PRECAST CONCRETE MANHOLE TYPE "A"



PLASTIC MANHOLE STEPS NOT TO SCALE



NOTE:

1. ALL SANITARY AND STORMWATER/DRAIN MANHOLE COVERS
SHALL BE 24" x 5". ALL SANITARY MANHOLE COVERS AND SHALL
HAVE "SEWER" CAST INTO THE COVER. ALL STORMWATER/DRAIN
MANHOLE COVERS SHALL HAVE "DRAIN" CAST INTO THE COVER.

CAST IRON MANHOLE COVER AND FRAME NOT TO SCALE GENERAL NOTES FOR MANHOLES AND CATCH BASINS

1. ALL CONCRETE SHALL BE CLASS "A" AND HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 4000-166. PER SQ. INCH AT THE END OF 28 DAYS, UNLESS OTHERWISE NOTED.

2. PRECAST REINFORCED CONE BARREL MANUFACTURED PER ASTM SPEC. C-418-61.

3. SEWER BRICK SHALL CONFORM TO ASTM SPEC.

DESIGNATE ON C-32-63, GRADE MA AND SA.

4. ALL MANHOLES SHALL HAVE A BITUMINOUS

ALL MANHOLES SHALL HAVE A BITUMINOUS WATERPROOFING APPLIED TO THE EXTERIOR SURFACE. 9. IF CONSTRUCTED OF BRICK MASONRY, SURFACE SHALL BE PLASTERED WITH A SMOOTH MORTAR FINISH 3/6" THICK AFTER THE MORTAR HAS SET, THE SURFACE SHALL BE WATERPROOFED AS REQUIRED BY 10. SUPPLEMENTAL SPECIFICATIONS SECTION 604.

CASTINGS SHALL CONFORM TO ASTM DESIGNATION A48-CLASS 35. ALL PARTS OF CASTINGS, EXCEPT FINISHED SURFACE, SHALL RECEIVE A COAT OF COAL TAR PITCH VARNISH OR ASPHALTUM PAINT WHICH SHALL BE SMOOTH AND TOUGH BUT NOT BRITTLE.

6. MANHOLES MAY BE CONSTRUCTED OF MASONRY, PRECAST REINFORCED CONCRETE, OR CAST IN PLACE.

7. ALL PRECAST MANHOLES AND CATCH BASINS SHALL BE IDENTIFIED BY <u>STATION</u> AND <u>OFFSET</u> PAINTED ON THE SIDE OF THE STRUCTURE BY THE MANUFACTURER.

8. EXISTING MANHOLES, CATCH BASINS, FRAMES, AND

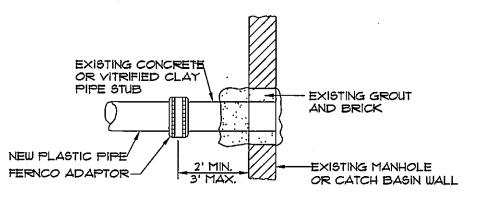
COVERS SHALL BE SALVAGED BY THE CONTRACTOR,
AND SHALL REMAIN THE PROPERTY OF THE CITY OF
PORTLAND.

ALL WORK WITHIN THE STREET RIGHT-OF-WAY SHALL
CONFORM TO THE CITY OF PORTLAND TECHNICAL

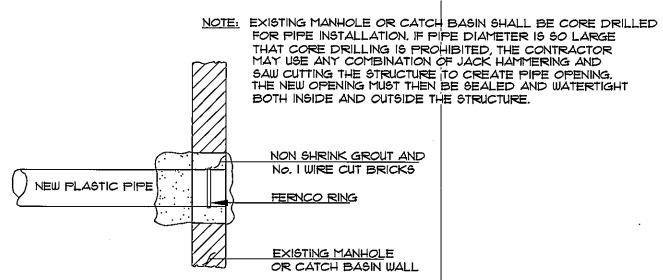
MANUAL STANDARDS.

10. ALL CATCH BASIN OUTLET PIPES SHALL BE INSTALLED WITH AN OIL AND FLOATABLES SEPARATOR. THE SEPARATOR SHALL BE THE "SNOUT" OR AN APPROVED EQUAL AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

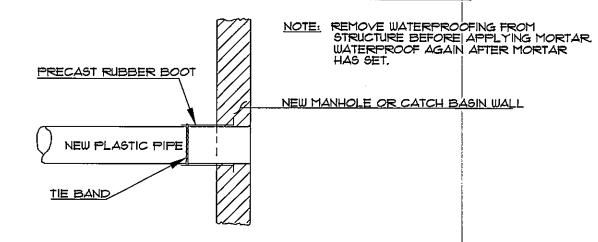
MANHOLE FRAME, GRATE AND COVERS SHALL COMPLY WITH CITY OF PORTLAND TECHNICAL STANDARDS AND



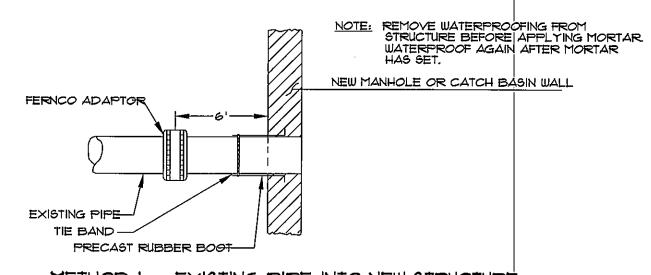
METHOD 4 - NEW PIPE TO EXISTING STRUCTURE STUB



METHOD 3 - NEW PIPE INTO EXISTING STRUCTURE



METHOD 2 - NEW CONSTRUCTION



METHOD 1 - EXISTING PIPE INTO NEW STRUCTURE

PLASTIC PIPE CONNECTION DETAIL
NOT TO SCALE

LTERATIONS, CHINICS, INC.

 D
 WTC
 10-03-13
 CITY SUBMITTAL 5

 C
 WTC
 09-17-13
 CITY SUBMITTAL 4

 B
 WTC
 09-03-13
 CITY SUBMITTAL 3

 A
 WTC
 07-29-13
 SUBMIT SITE PLAN APPLICATION TO CITY

 WN
 BY:
 DATE:
 STATUS:

 THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATAL AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS

| T E C H N 1 C S | WWW.SEBAGOTECHNICS.COM | Tol. 207-200-2100 | Tol. 207-200-2100 | Tol. 207-200-2100 | Tol. 207-783-5656 | PROJECT NO. | FIELD BOOK | DESIGN | OHKD | DR

OF:

SEAPORT LOFTS

NEWBURY / HANCOCK STREET

PORTLAND, MAINE

FOR:

113 NEWBURY STREET, LLC

35 FAY STREET SHIFF 107R

 DATE
 SCALE

 07-26-13
 AS SHOWN

 SHEET 12 OF 14

TYPE A-4 GRANITE CATCH BASIN INLET STONE DETAIL

(FOR EXISTING BASIN AT HANCOCK STREET)

NOT TO SCALE

SECTION A-A

PREMOLDED-

JOINT FILLER

SHOP DRAWINGS.

-SEE NOTES FOR CASTINGS

MIN. I CRS. MAX. 3 CRS.

OR SLAB MAY BE USED.

-ADJUST TO GRADE WITH BRICK

-CONCENTRIC CONE SECTION SHOWN. ECCENTRIC CONE

PRECAST BARREL SECTION

MORTAR JOINTS (IF FLEXIBLE PIPE, USE FLEXIBLE MANHOLE CONNECTION WITH STAINLESS

PRECAST BASE SECTION

GRANITE INLET STONE

-CEMENT MORTAR

AS REQUIRED

-6" OF ¾" CRUSHED STONE

1. 4'-0 I.D. TYPICAL. SOME STRUCTURES MAY REQUIRE LARGER I.D. PROVIDE

4. CATCH BASIN FRAME AND GRATE TO BE EAST JORDAN FOUNDRY 5250,

MANHOLE/CATCH BASIN

TYPICAL DRAINAGE

5. DRAINAGE MANHOLE FRAME AND COVER TO BE EAST JORDAN FOUNDRY 1122, TYPE A OR APPROVED EQUAL. COVER SHALL BE MARKED "DRAIN".

2. DRAINAGE STRUCTURES TO BE DESIGNED FOR H-20 LOADING.

3. PIPE SIZES AND INVERTS AS NOTED ON PLANS.

NOT TO SCALE