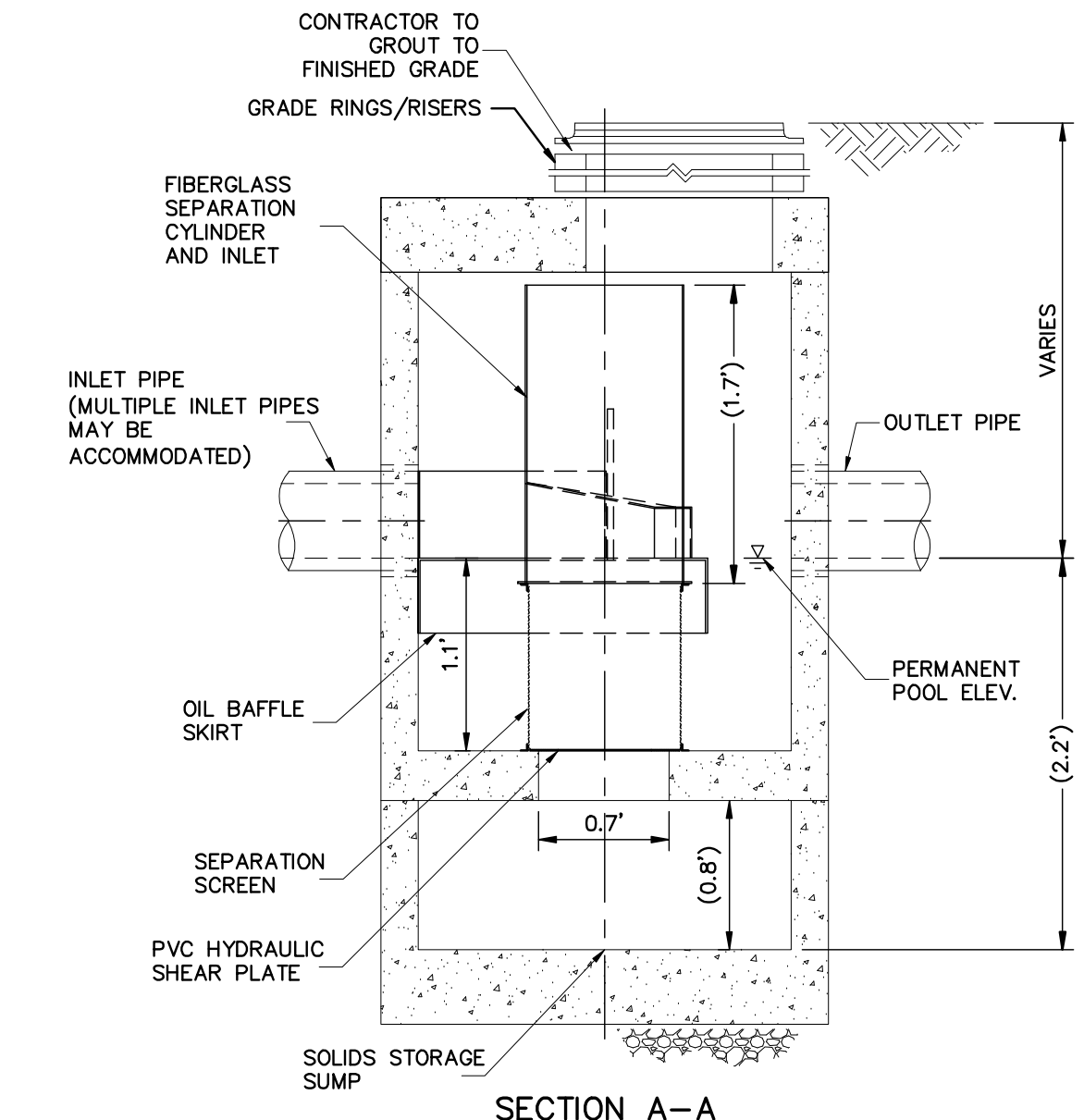


FRAME AND COVER
(DIAMETER VARIES)



WATER QUALITY STRUCTURE
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS			
STRUCTURE ID	ID	WATER QUALITY FLOW RATE (CFS)	PEAK FLOW RATE (CFS)
		1.0	PEAK
		2	RETURN PERIOD OF PEAK FLOW (YRS)
		2	SCREEN APERTURE (2400 OR 4700) MICRON
PIPE DATA:			
INLET PIPE 1	LE	MATERIAL	DIAMETER
	5.5	PVC	12"
INLET PIPE 2	ELEV	MATERIAL	DIAM
	5.3	PVC	12"
OUTLET PIPE	LE	MATERIAL	DIAMETER
	5.3	PVC	12"
RIM ELEVATION			
			8.58
ANTI-FLOTATION BALLAST			
WIDTH	HEIGHT	WIDTH	HEIGHT

CDS2020 DESIGN NOTES

CDS2020 RATED TREATMENT CAPACITY IS 1.1 CFS, OR PER LOCAL REGULATIONS. MAXIMUM HYDRAULIC INTERNAL BYPASS CAPACITY IS 14.0 CFS. IF THE SITE CONDITIONS EXCEED 14.0 CFS, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

THE STANDARD CDS2020 CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

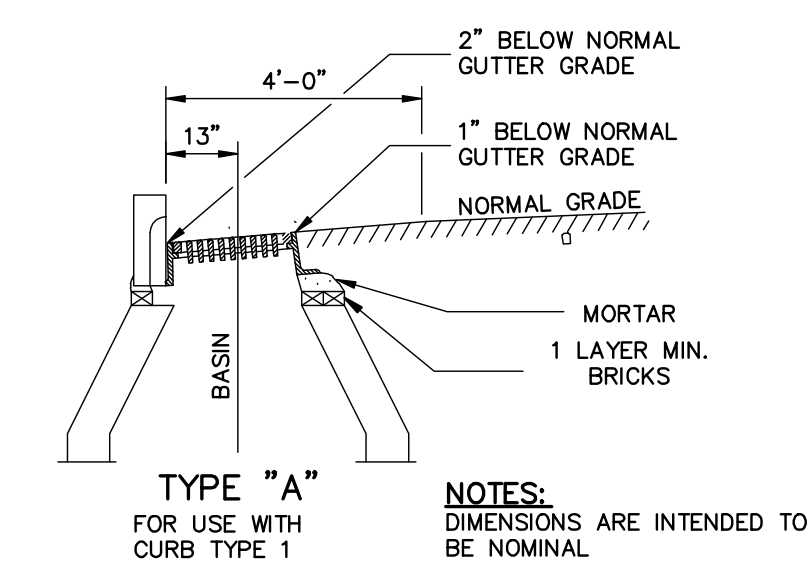
DESIGNATION (MODEL SUFFIX)	CONFIGURATION DESCRIPTION
G	GRADED INLET ONLY (NO INLET PIPE)
GP	GRADED INLET WITH INLET PIPE OR PIPES
K	CURB INLET ONLY (NO INLET PIPE)
KP	CURB INLET WITH INLET PIPE OR PIPES
S	SEPARATE OIL BAFFLE (SINGLE INLET PIPE REQUIRED FOR THIS CONFIGURATION)
W	SEDIMENT WEIR FOR NJDEP / NJCAT CONFORMING UNITS

NOTE: CONTECH TO PROVIDE ANTI-FLOTATION CALCULATIONS SIGNED AND SEALED BY A LICENSE PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MAINE.

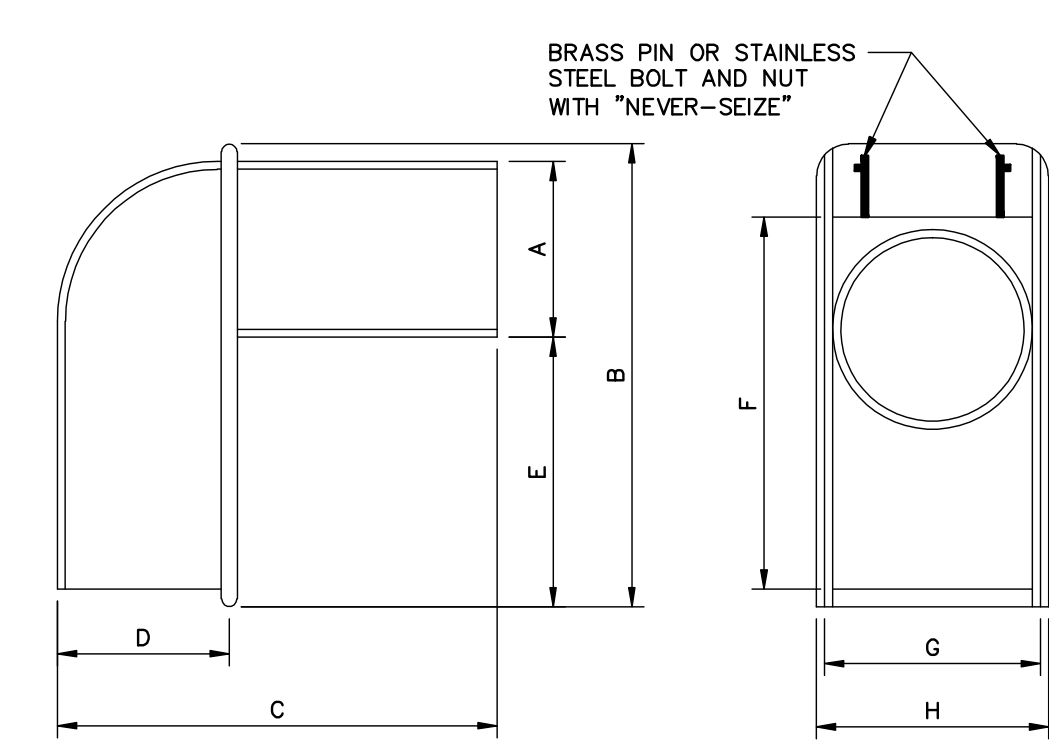
- GENERAL NOTES**
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 - DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
 - FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH STORMWATER SOLUTIONS REPRESENTATIVE. www.contechstormwater.com
 - CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
 - STRUCTURE AND CASTINGS SHALL MEET AASHTO H250 LOAD RATING.
 - PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
- INSTALLATION NOTES**
- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 - CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
 - CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
 - CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
 - CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

GENERAL NOTES FOR MANHOLES AND CATCH BASINS

- ALL CONCRETE SHALL BE CLASS "A" AND HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 4000 LBS. PER SQ. INCH AT THE END OF 28 DAYS, UNLESS OTHERWISE NOTED.
- PRECAST REINFORCED CONE BARREL MANUFACTURED PER ASTM SPEC. C-478-67
- SEWER BRICK SHALL CONFORM TO ASTM SPEC. DESIGNATE ON C-32-63, GRADE MA AND SA.
- ALL MANHOLES SHALL HAVE A BITUMINOUS WATERPROOFING APPLIED TO THE EXTERIOR SURFACE. IF CONSTRUCTED OF BRICK MASONRY, SURFACE SHALL BE PLASTERED WITH A SMOOTH MORTAR FINISH 3/8" THICK. AFTER THE MORTAR HAS SET, THE SURFACE SHALL BE WATERPROOFED AS REQUIRED BY 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.
- MANHOLES MAY BE CONSTRUCTED OF MASONRY, PRECAST REINFORCED CONCRETE, OR CAST IN PLACE.
- ALL PRECAST MANHOLES AND CATCH BASINS SHALL BE IDENTIFIED BY STATION, OFFSET, AND STRUCTURE ID PAINTED ON THE SIDE OF THE STRUCTURE BY THE MANUFACTURER.
- STORM AND SEWER MANHOLES SHALL HAVE SOLID COVERS WITH ONE DRILLED PICK HOLE.
- EXISTING MANHOLES, CATCH BASINS, FRAMES, AND COVERS SHALL BE SALVAGED BY THE CONTRACTOR, AND SHALL REMAIN THE PROPERTY OF THE CITY OF PORTLAND.
- WHEN THE FLOW CHANGES DIRECTION IN A MANHOLE, THE CHANNEL ALIGNMENT SHALL FOLLOW A SMOOTH RADIUS. CHANNELS SHALL BE FORMED TO ACCEPT ALL INLET PIPES.
- THE MANHOLE SHELF AND CHANNEL SHALL BE LINED WITH BRICK SET IN CEMENT MORTAR ON ALL SANITARY SEWER MANHOLES. BRICKS SHALL BE LAID FLAT ON THE SHELF AND ON EDGE IN THE CHANNEL.
- ON STORM DRAIN MANHOLES, THE SHELF AND CHANNEL SHALL BE FORMED BY BRICK SET IN CEMENT MORTAR OR BY FACTORY PRE-CAST CONCRETE. SUCH PRE-CAST CONCRETE SHALL BE EPOXY COATED AND THE SHELF SHALL HAVE A PERMANENT NON-SKID SURFACE.



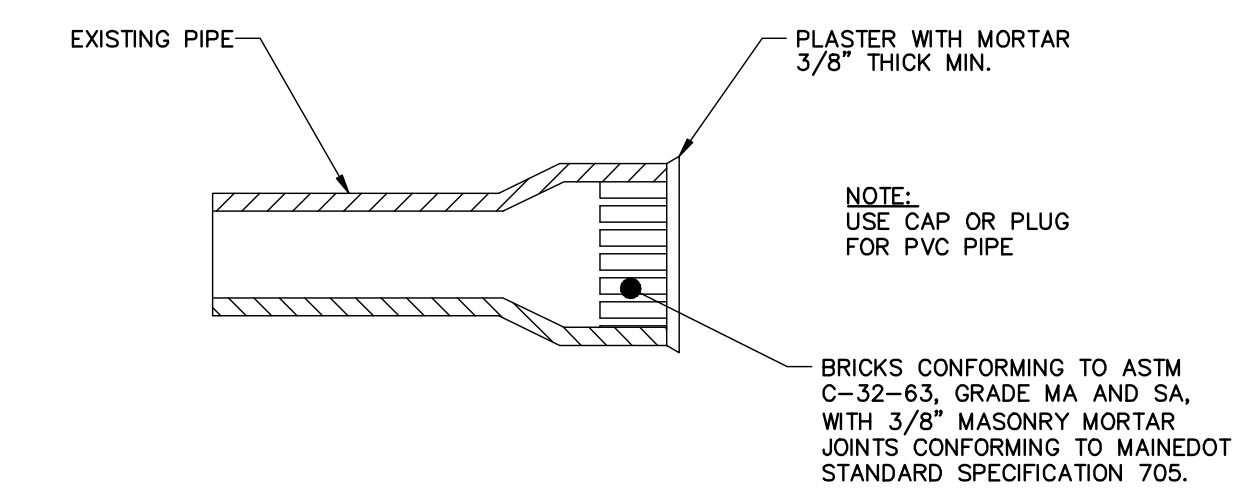
CATCH BASIN TOP INSTALLATION
N.T.S.



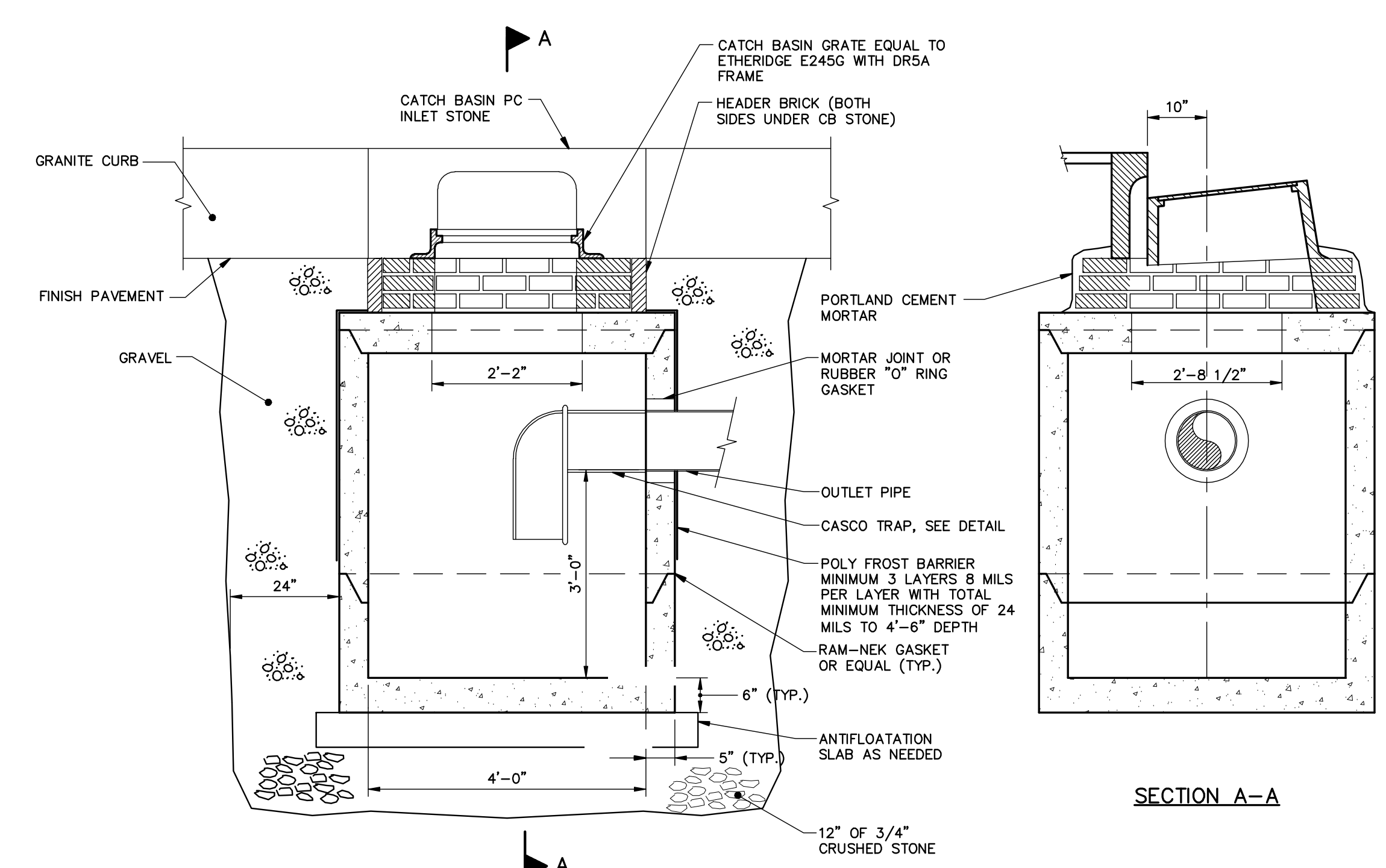
SIZE	A	B	C	D	E	F	G	H
12"	11 1/2"	17"	22"	8"	3 1/2"	17"	12 1/2"	13 3/8"

- NOTE:**
- BOLT AND NUT REQUIRED WHERE HOOD WILL NOT OPEN COMPLETELY.
 - FOR OUTLET PIPES GREATER THAN 12" USE "SNOUT" TRAP BY BEST MANAGEMENT PRODUCTS, INC. OR APPROVED EQUAL.

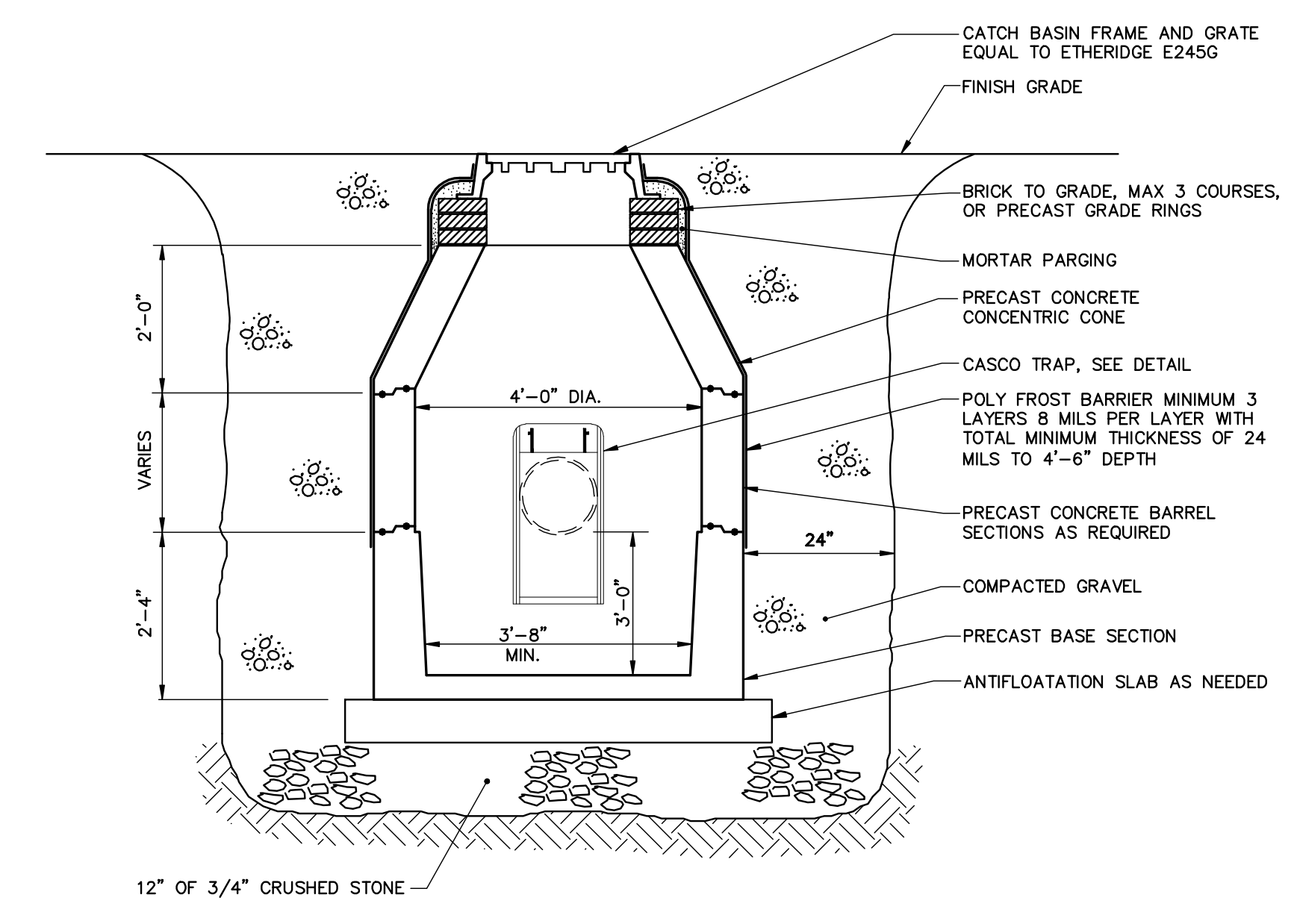
CASCO TRAP DETAIL
N.T.S.



MASONRY PLUG DETAIL
N.T.S.



CURBSIDE CATCH BASIN
N.T.S.



TYPICAL CATCH BASIN
N.T.S.

CONSTRUCTION MANAGER:
CONSIGLI
84 Middle Street
Portland, Maine 04101
Phone 207-773-3000
Fax 207-773-3000

PARKING GARAGE ARCHITECT:
SSI
75 York Street
Portland, Maine 04101
Phone 207-488-4656
Fax 207-488-4656

PARKING GARAGE STRUCTURAL ENGINEER:
BECKER
75 York Street
Portland, Maine 04101
Phone 207-488-1828
Fax 207-488-1822

SITE/CIVIL ENGINEER:
BAARY
41 Middle Drive
Portland, Maine 04102
Phone 207-773-4858
Fax 207-774-6835

HARRIMAN
Architects + Engineers
Autism Business Park
40 Sistrunk Drive
Auburn, Maine 04210
207.784.5588 ext
207.782.5817 fax
123 Middle Street
Portland, Maine 04101
207.773.8833 ext
207.773.8669 fax
www.harriman.com
© 2008

Project Title
BAYCO LLC.
BAYSIDE DEVELOPMENT
PORTLAND, MAINE

HA Project No.
Key Plan

Professional Engineer Seal for BAARY, dated JANUARY 7, 2009.

Mark	Date	Description
	1-7-09	100% SITE ENABLING PLAN
	12-19-08	90% SITE ENABLING PLAN
	11-21-08	PERMIT SUBMITTAL
	11-13-08	PERMIT SUBMITTAL
	10-24-08	PERMIT SUBMITTAL
	10-10-08	REVISE BLDG LAYOUT & ADD BUS DRIP
	09-26-08	PERMIT SUBMITTAL

Drawing Status

Drawing Title
CIVIL DETAILS

PA / PE: **BSS** Drawn By: **RJUV**

Drawing Number
C303