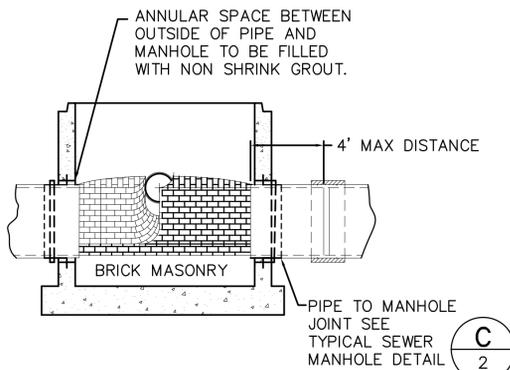


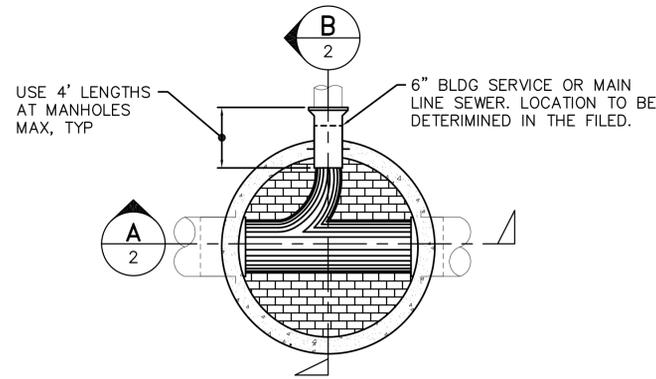
MANHOLE NOTES:

1. CONCRETE: 4,000 PSI AFTER 28 DAYS.
2. REINFORCING: HS-20 LOADING.
3. SHIPLAP JOINTS SHALL BE SEALED WITH 2 STRIPS OF 1" DIA BUTYL RUBBER SEALANT.
4. EXTERIOR OF MANHOLE SHALL BE SEALED WITH "PRESCOTT PROTECTIVE COATING" (PRODUCT NO. 87035) FROM E.J. PRESCOTT, INC. OR AN APPROVED EQUIVALENT.
5. PROVIDE LOCK JOINT FLEXIBLE PIPE SLEEVES, CAST INTO BASE.
6. EACH CASTING TO HAVE LIFTING HOLES CAST IN. PLUG LIFTING HOLES WITH GROUT AFTER PLACING MANHOLE.
7. MANHOLE STRUCTURES SHALL BE TESTED IN ACCORDANCE WITH (?)

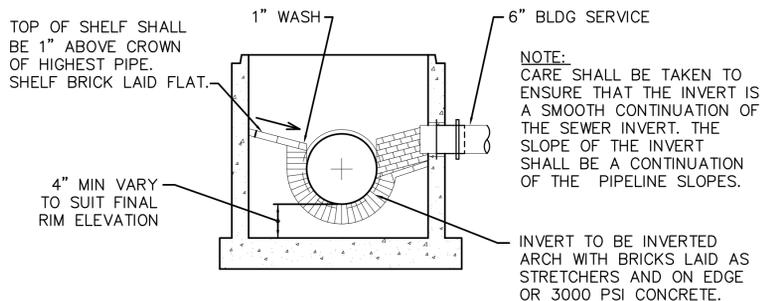
1 TYPICAL SEWER MANHOLE - SECTION
NOT TO SCALE



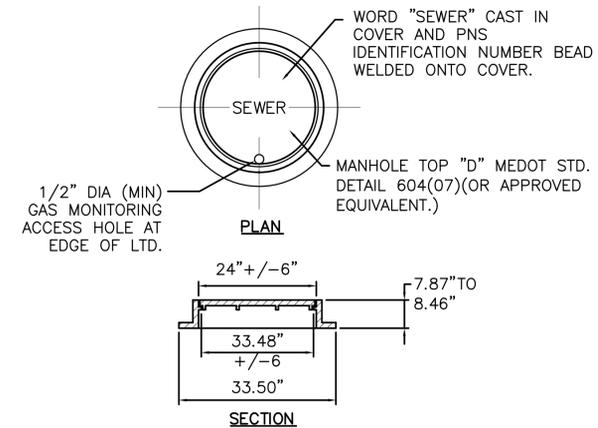
A TYPICAL BRICK INVERT - SECTION
2 NOT TO SCALE



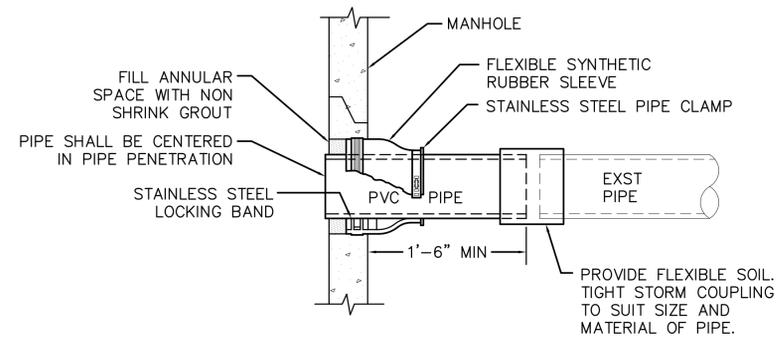
5 TYPICAL BRICK INVERT - PLAN
NOT TO SCALE



B TYPICAL BRICK INVERT - SECTION
2 NOT TO SCALE



6 STANDARD MANHOLE FRAME AND COVER
NOT TO SCALE



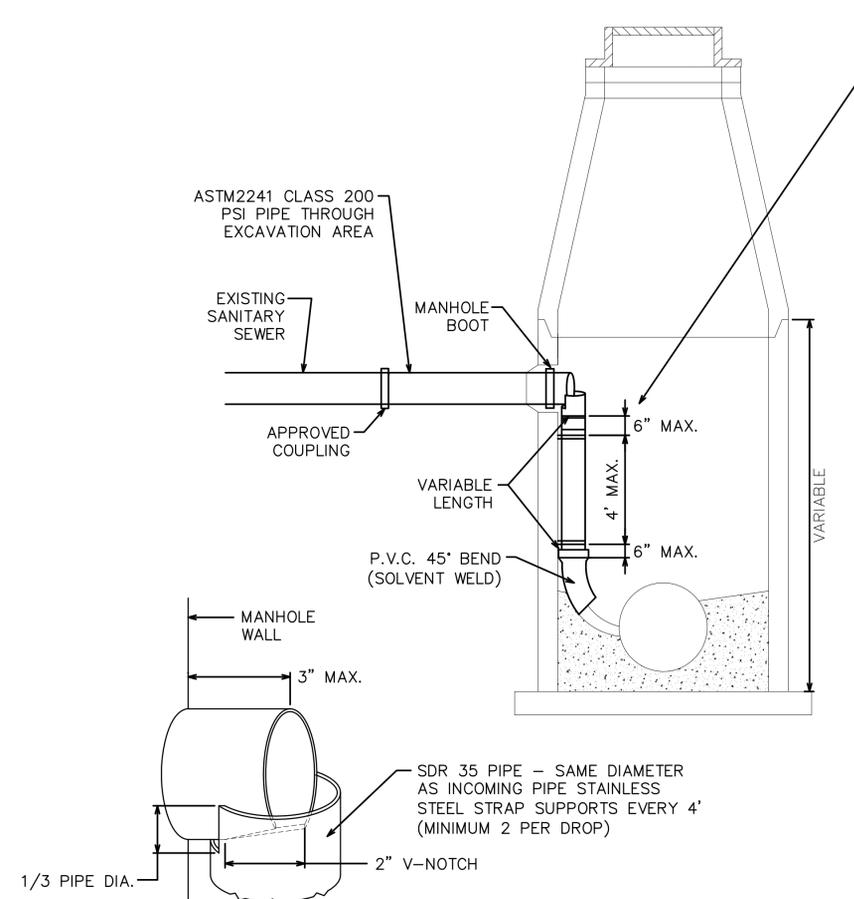
C TYPICAL PIPE CONNECTION DETAIL
2 NOT TO SCALE

NOTE:
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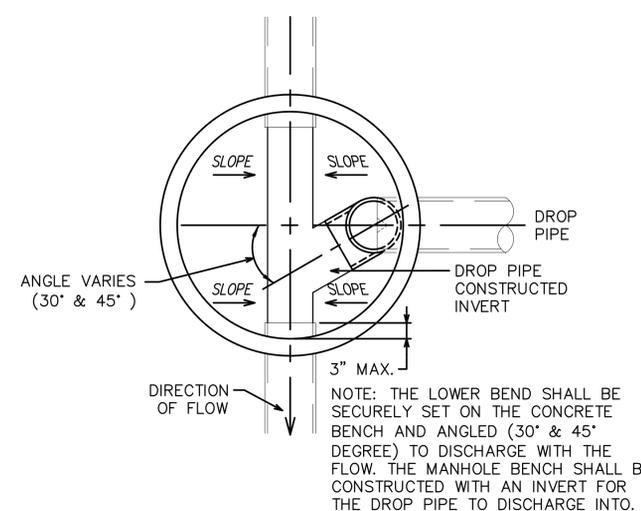
APPROVED	DATE	
FOR COMMANDER NAVFAC		
ACTIVITY		
SATISFACTORY TO	DATE	
DES	DRW	CHK
PI/DW		
BRANCH MANAGER		
CHIEF ENG/ARCH		DWG
FIRE PROTECTION		
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND PUBLIC WORKS DEPARTMENT - MAINE PORTSMOUTH NAVAL SHIPYARD KITTEERY, ME	SEWER SYSTEM STANDARD DETAILS	
DETAILS AND NOTES - SHEET 1		
MAXIMO NO.:		
EPROJECT NO.:		
CONSTR. CONTR. NO.:		
NAVFAC DRAWING NO.:		
SHEET	1	OF 2
C-501		
DRAWING REVISION: 10 MARCH 2009		

FILE NAME: S:\PT\Northwest\Maine\Portsmouth\01_PRR2 - FEED\02_PRR21 - PAVE\CAD Workarea\CAD Detail\CAD\Sewer\Sewer Details.dwg LAYOUT NAME: SEWER SYS SD DET 1 PLOTTED: Wednesday, December 08, 2010 - 8:43am USER: deval.j.davis

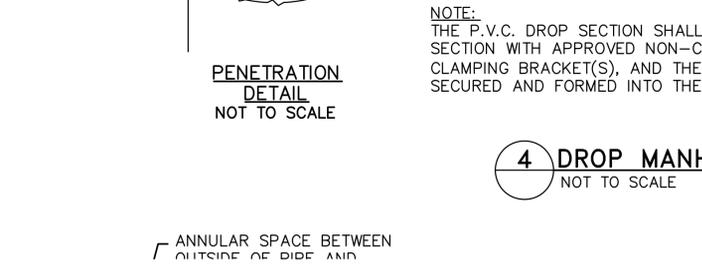
FILE NAME: S:\PT\Northwest\Maine\Permanenth\01_PRR2 - FEAD\02_PRR21 - PAVE\CAD - Workarea\CAD - Details\Civil\Sanitary Sewer Details.dwg LAYOUT NAME: SEWER SYS SD DET 2 - PLOTTED: Wednesday, December 08, 2010 - 8:44am USFS: detad.j.dmac



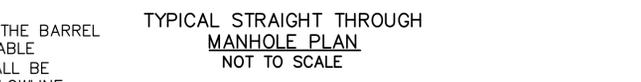
2 PIPE TRENCH DETAIL
NOT TO SCALE



3 SEWER CLEANOUT
NOT TO SCALE



4 DROP MANHOLE DETAIL
NOT TO SCALE



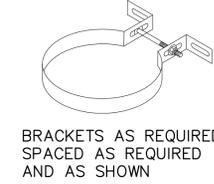
TYPICAL STRAIGHT THROUGH MANHOLE PLAN
NOT TO SCALE

ANNULAR SPACE BETWEEN OUTSIDE OF PIPE AND

PENETRATION DETAIL
NOT TO SCALE

NOTE:
THE P.V.C. DROP SECTION SHALL BE SECURED TO THE BARREL SECTION WITH APPROVED NON-CORROSIVE ADJUSTABLE CLAMPING BRACKET(S), AND THE LOWER BEND SHALL BE SECURED AND FORMED INTO THE BENCH OF THE FLOWLINE.

DROP SECTION SECURED WITH RELINER BRAND STAINLESS STEEL ADJUSTABLE CLAMPING BRACKETS SECURED WITH STAINLESS STEEL FASTENERS OR APPROVED EQUAL (AS SHOWN)



BRACKETS AS REQUIRED, SPACED AS REQUIRED AND AS SHOWN

SEE TYPICAL PAVEMENT
BACKFILL WITH SUITABLE EXCAVATED MATERIAL OR AS DIRECTED BY CONTRACTING OFFICER.

GREEN DETECTABLE TAPE (SEWER) FOR NON-METALIC PIPE.
NON DETECTABLE TAPE FOR METALIC PIPE.

SAND BEDDING PLACE IN 12" LIFTS AND COMPACT TO 90% STANDARD PROCTIR MAXIMUM DENSITY.

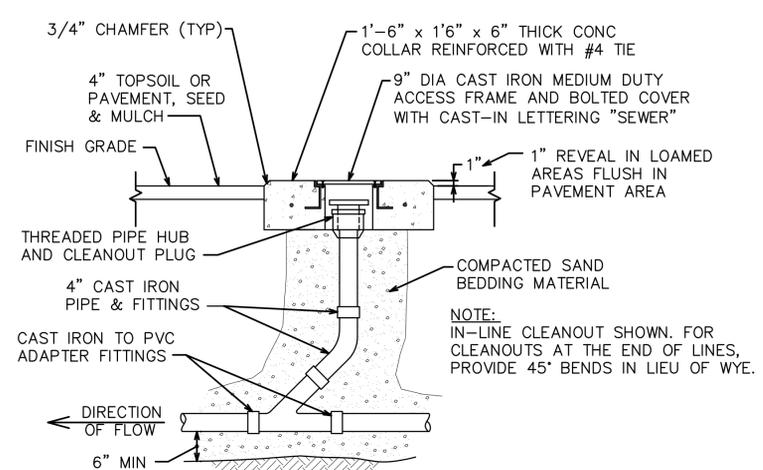
SEWER MAIN
3/4" CRUSHED STONE BEDDING

EDGE TO BE SAWN OR CUT AS NECESSARY
4" LOAM & SEED IN NON-PAVED AREAS

MINIMUM COVER:
5'-BENEATH PARKING/DRIVEWAYS
4'-BENEATH LANDSCAPE/SIDEWALKS

2 PIPE TRENCH DETAIL
NOT TO SCALE

NOTE: THE LOWER BEND SHALL BE SECURELY SET ON THE CONCRETE BENCH AND ANGLED (30° & 45° DEGREE) TO DISCHARGE WITH THE FLOW. THE MANHOLE BENCH SHALL BE CONSTRUCTED WITH AN INVERT FOR THE DROP PIPE TO DISCHARGE INTO.



3 SEWER CLEANOUT
NOT TO SCALE

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APPROVED	DATE	
FOR COMMANDER NAVFAC		
ACTIVITY		
SATISFACTORY TO	DATE	
DES	DRW	CHK
FW/DW		
BRANCH MANAGER		
CHIEF ENG/ARCH		DWG
FIRE PROTECTION		
DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND	
NAVAL FACILITIES ENGINEERING COMMAND	MID-ATLANTIC	
PUBLIC WORKS DEPARTMENT - MAINE	NAVAL SUPERDOME - PORTSMOUTH, NH	
PORTSMOUTH NAVAL SHIPYARD	KITTERY, ME	
SEWER SYSTEM STANDARD DETAILS		
DETAILS AND NOTES - SHEET 2		
MAXIMO NO.:		
EPROJECT NO.:		
CONSTR. CONTR. NO.:		
NAVFAC DRAWING NO.:		
SHEET	2	OF 2
C-502		
DRAWING REVISION: 10 MARCH 2009		

