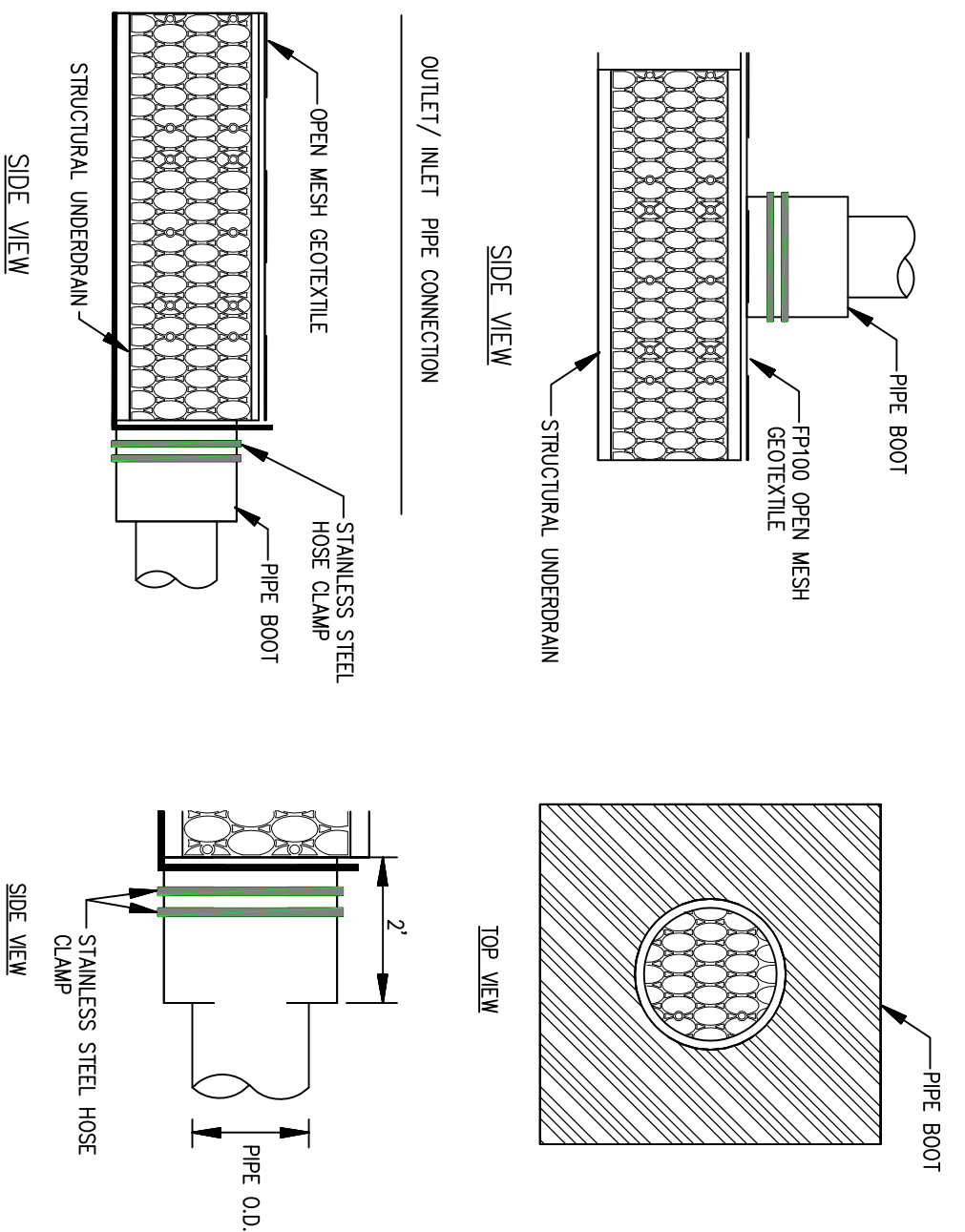


FOCALPOINT ELEVATION AND DIMENSIONAL DATA					
ID	DESCRIPTION	FP-1	FP-2	FP-3	FP-4
A	TOP OF FOCALPOINT	108.37'	108.37'	118.25'	118.25'
B	TOP OF MEDIA	108.12'	108.12'	118.00'	118.00'
C	TOP OF UNDERBRAN	106.12'	106.12'	116.00'	116.00'
D	OUTLET PIPE INVERT	105.37'	105.37'	115.25'	115.25'
E	FOCALPOINT WIDTH	2.00'	2.00'	2.00'	2.00'
F	FOCALPOINT LENGTH	6.00'	6.00'	6.00'	6.00'
G	WIDTH OF R-TANK	2.00'	2.00'	2.00'	2.00'
H	LENGTH OF R-TANK	6.00'	6.00'	6.00'	6.00'

OBSERVATION/ MAINTENANCE PORT CONNECTION

PIPE BOOT DETAIL

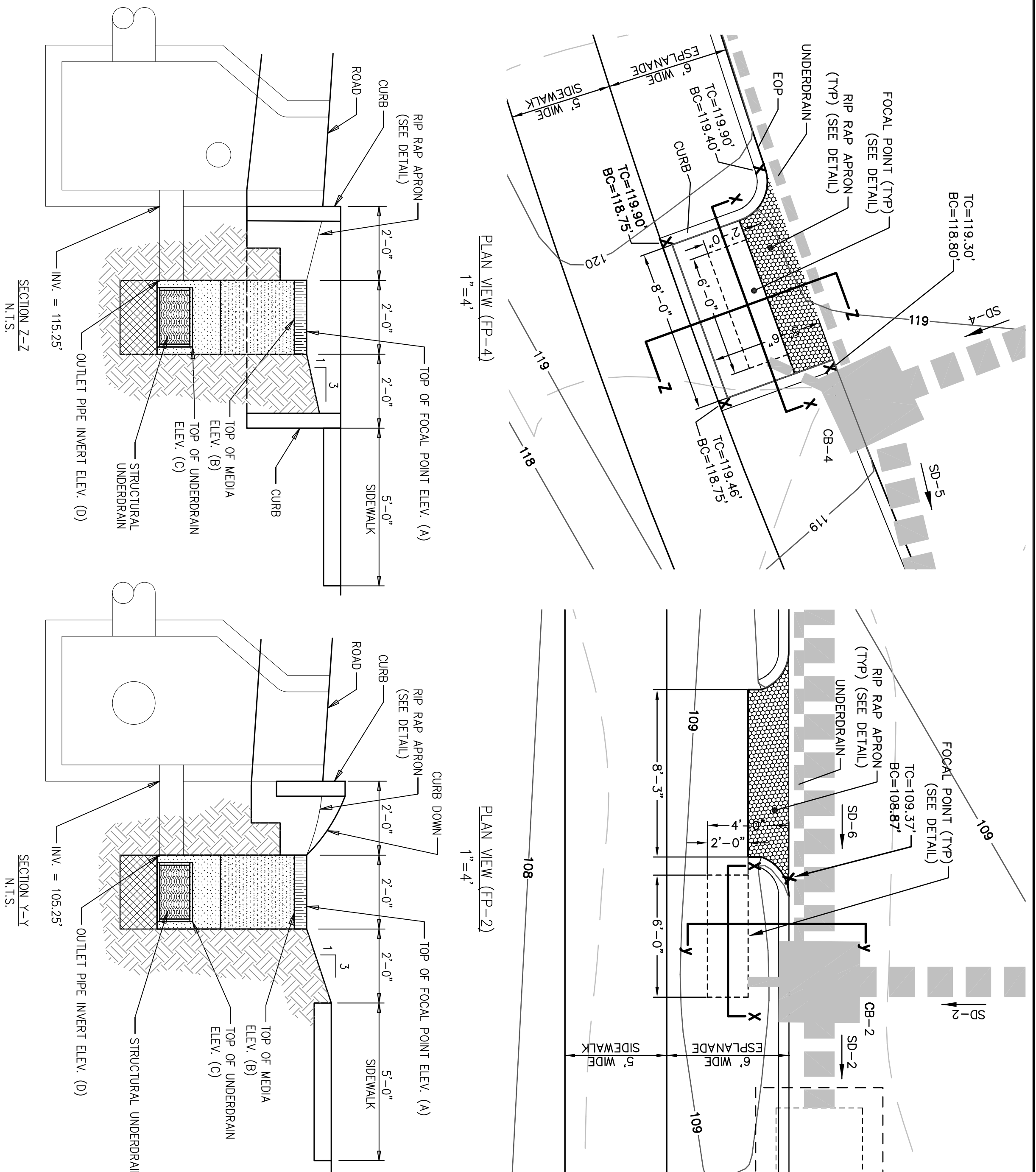


PLAN VIEW (FP-4)

1"=4'

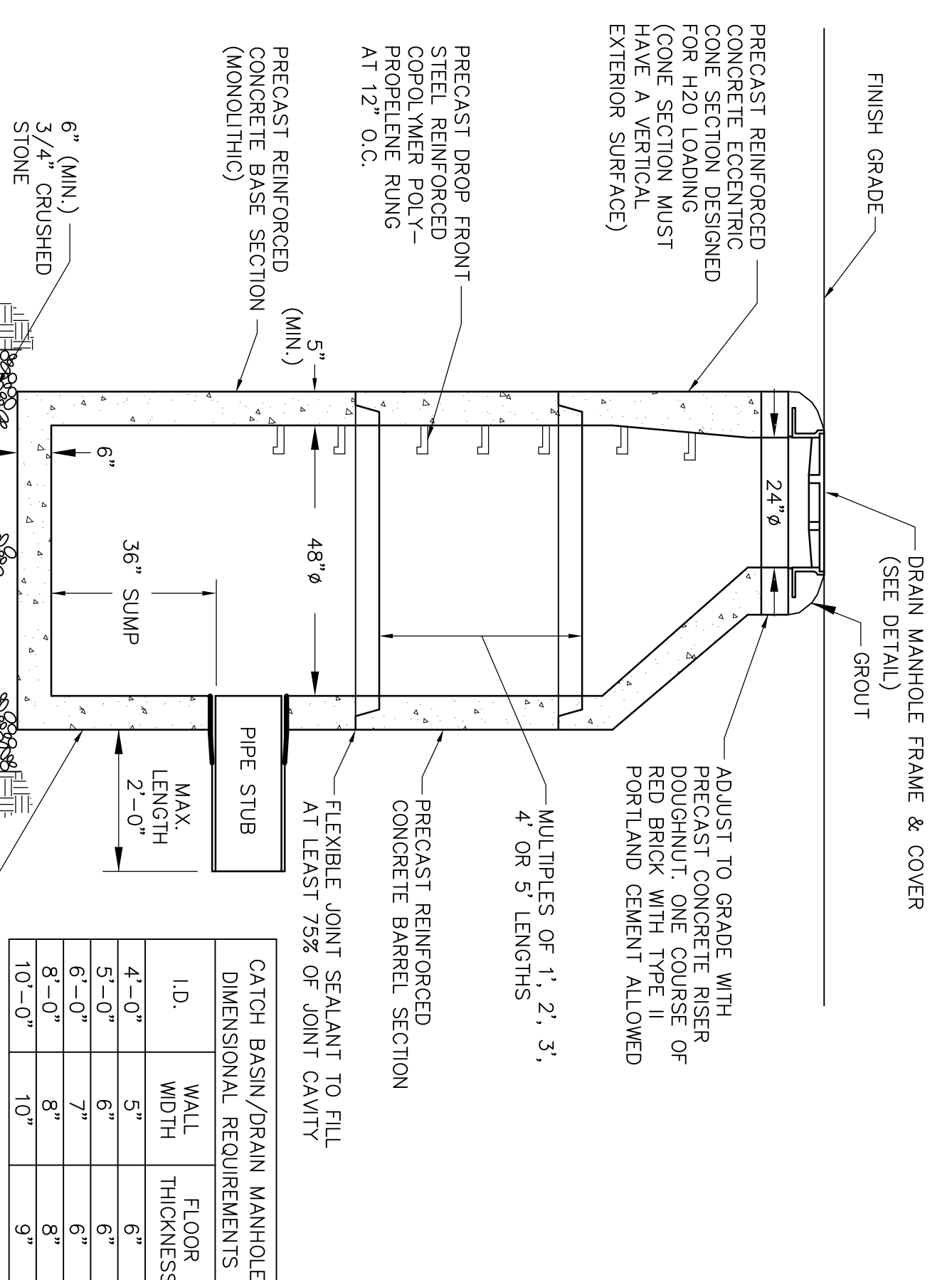
PLAN VIEW (FP-2)

1"=4'

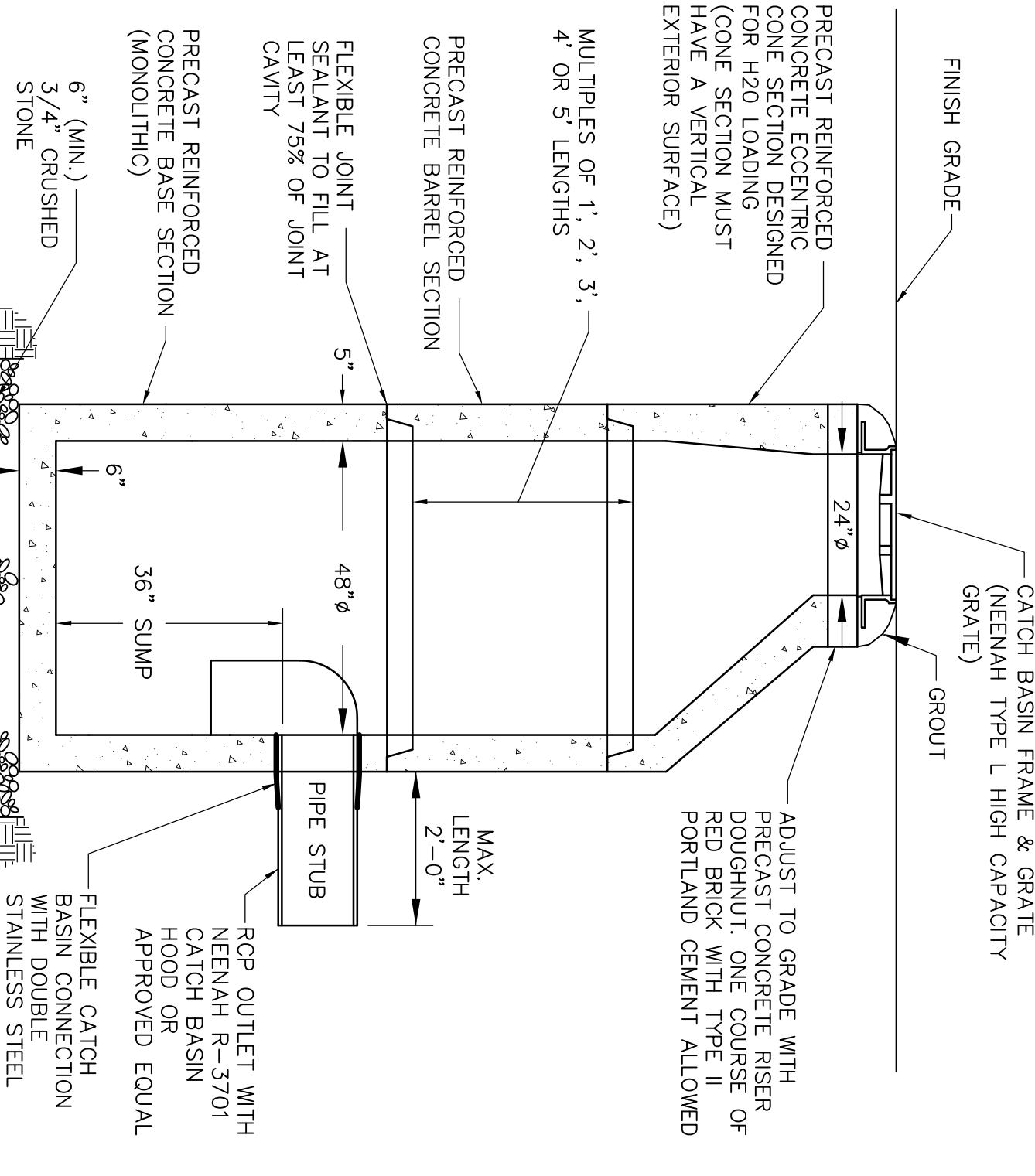


SECTION Z-Z

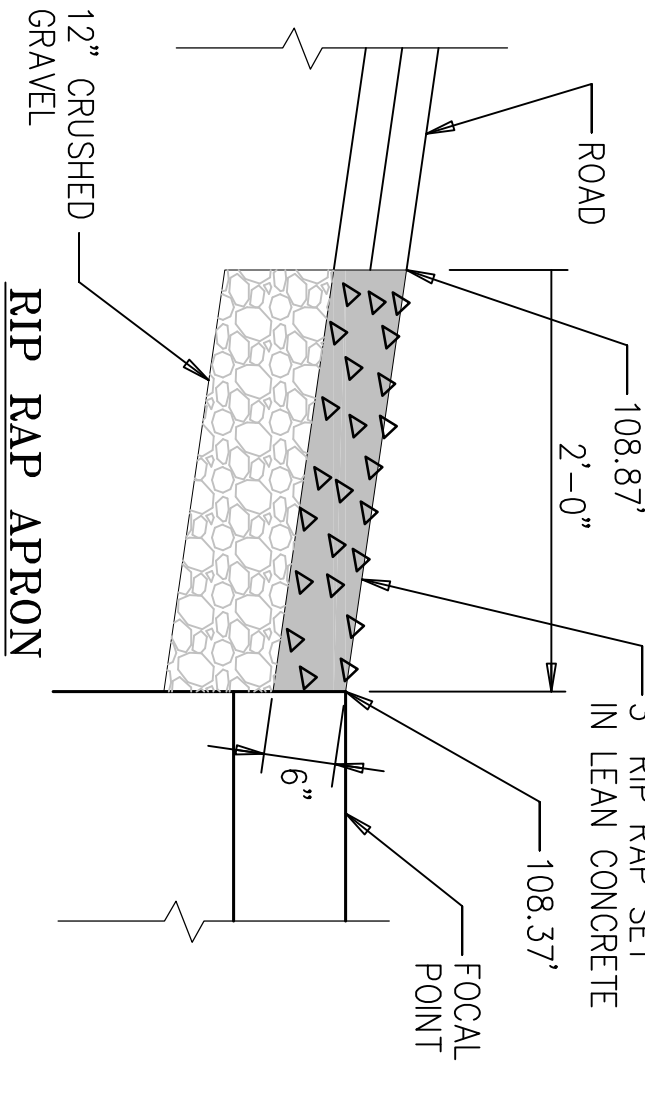
SECTION X-X



CATCH BASIN/ DRAIN MANHOLE DIMENSIONAL REQUIREMENTS			
I.D.	WALL WIDTH	FLOOR THICKNESS	FLOOR THICKNESS
4'-0"	5"	6"	6"
5'-0"	6"	6"	6"
6'-0"	7"	6"	6"
8'-0"	8"	6"	8"
10'-0"	10"	6"	9"



CATCH BASIN/ DRAIN MANHOLE DIMENSIONAL REQUIREMENTS			
I.D.	WALL WIDTH	FLOOR THICKNESS	FLOOR THICKNESS
4'-0"	5"	6"	6"
5'-0"	6"	6"	6"
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10'-0"	10"	6"	9"



SECTION X-X

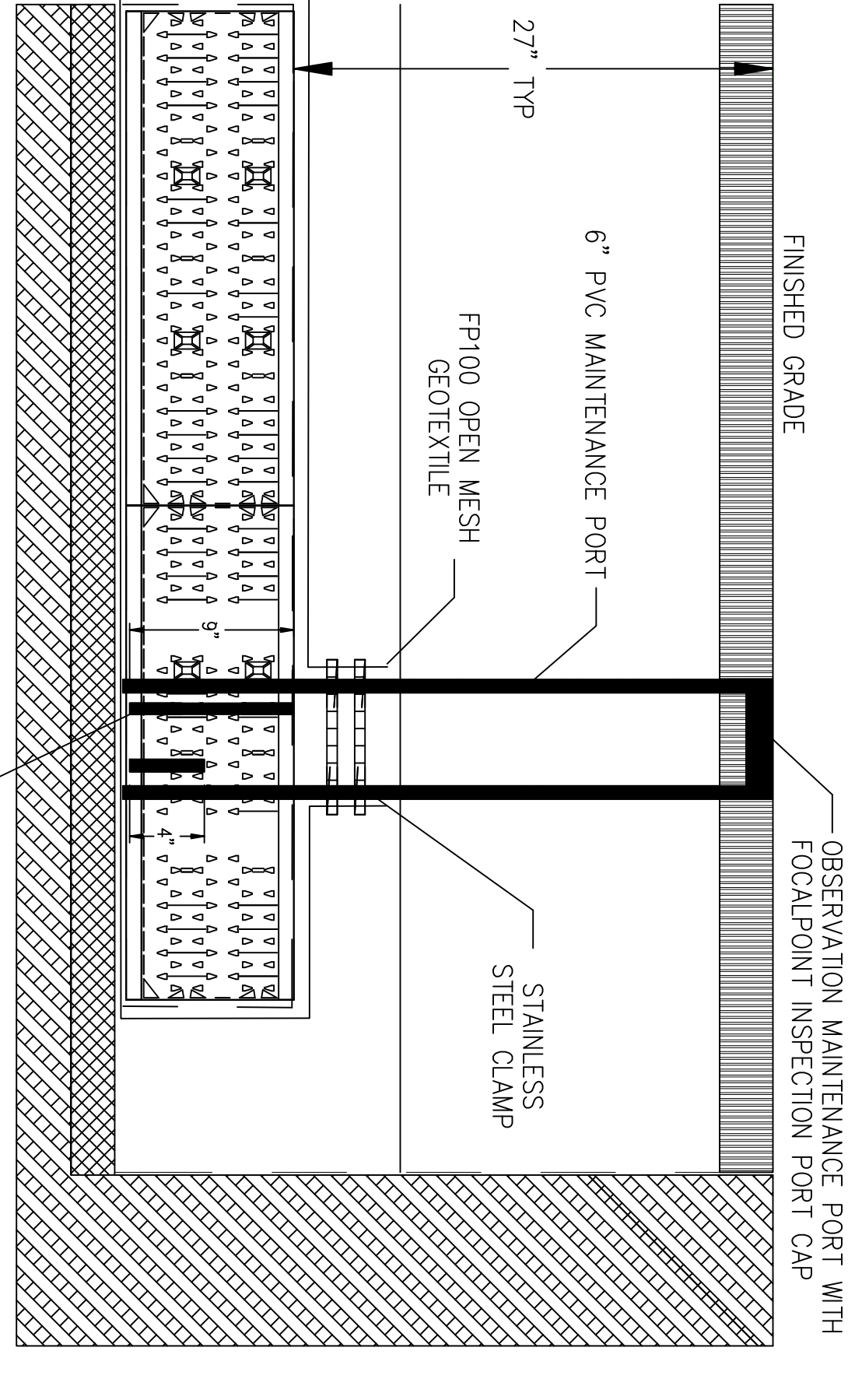
- BIORETENTION MEDIA**
- BIOLOGICALLY ACTIVE BIORETENTION MEDIA SHALL BE VISUALLY INSPECTED TO ENSURE APPROPRIATE VOLUME, TEXTURE AND CONSISTENCY WITH THE APPROVED GRAMMANS, AND MUST BEAR A BATCH NUMBER MARKING FROM THE MANUFACTURER WHICH CERTIFIES PERFORMANCE TESTING OF THE BATCH TO MEET OR EXCEED THE REQUIRED INFILTRATION RATE.
 - MEDIA SHALL BE HOMOGENEOUSLY BLENDED TO PROVIDE FULL FUNCTIONALITY BY A HIGHLY CONTROLLED AND ACCURATE BLENDED PROCESS.
 - MANUFACTURER SHALL HAVE A MINIMUM OF 3 YEARS' EXPERIENCE AND A MINIMUM OF 500 INSTALLED AND OPERATIONAL HIGH PERFORMANCE, HIGH FLOW RATE BIORETENTION SYSTEM UNITS.
 - WITHIN 90 DAYS AFTER PROJECT COMPLETION, THE INFILTRATION RATE SHALL BE CONFIRMED AT THE MANUFACTURER OR VENDOR'S EXPENSE, BY A WETTED CONDITION HYDRAULIC CONDUCTIVITY TEST.
 - FAILURE TO PASS THIS TEST WILL RESULT IN REMOVAL AND REPLACEMENT OF ALL MEDIA IN THE SYSTEM AT NO COST TO THE PROJECT OWNER/OPERATOR. A) TEST MUST UTILIZE THE EQUIPMENT AND FOLLOW THE STANDARD OPERATING PROCEDURES FOUND IN THE HARRIS COUNTY TEXAS MANUAL ENTITLED, LOW FLOW INFILTRATION & RECHARGE INVESTIGATION PROCEDURES FOR BIORETENTION MEDIA (2011). B) TEST RESULTS SHALL BE PROVIDED FROM A DIFFERENT BATCH THAN THE ORIGINAL MATERIAL. C) REPLACEMENT MEDIA, IF REQUIRED, MUST BE PROVIDED FROM A DIFFERENT BATCH THAN THE ORIGINAL MATERIAL.
 - VENDOR SHALL PROVIDE, AT NO ADDITIONAL COST TO THE PROJECT OWNER/OPERATOR, MAINTENANCE OF THE BIORETENTION SYSTEM FOR A PERIOD OF ONE YEAR. VENDOR SHALL MAKE AVAILABLE AN EXTENDED MAINTENANCE CONTRACT IF DESIRED BY PROJECT OWNER/OPERATOR.
 - COMPOSITION AND CHARACTERISTICS OF THE BIORETENTION MEDIA MUST MEET OR EXCEED THE FOLLOWING MINIMUM STANDARDS AS DEMONSTRATED BY TESTING ACCEPTABLE TO THE PROJECT ENGINEER.

THIS PLAN IS FOR REVIEW PURPOSES ONLY AND IS NOT INTENDED FOR CONSTRUCTION OR RECORDING

MEDIA SPEC TABLE	
AGGREGATE CHARACTERISTICS (TYPICAL)	
COMBINED SILT & CLAY	< 5%
SAND - FINE	2% - 20%
SAND - MEDIUM	5% - 35%
SAND - COURSE	10% - 55%
SAND - VERY COARSE	> 10% - 70%
GRAVEL	> 100 INCHES PER HOUR
INFILTRATION RATE	5% - 30%
ORGANIC *	5% - 30%

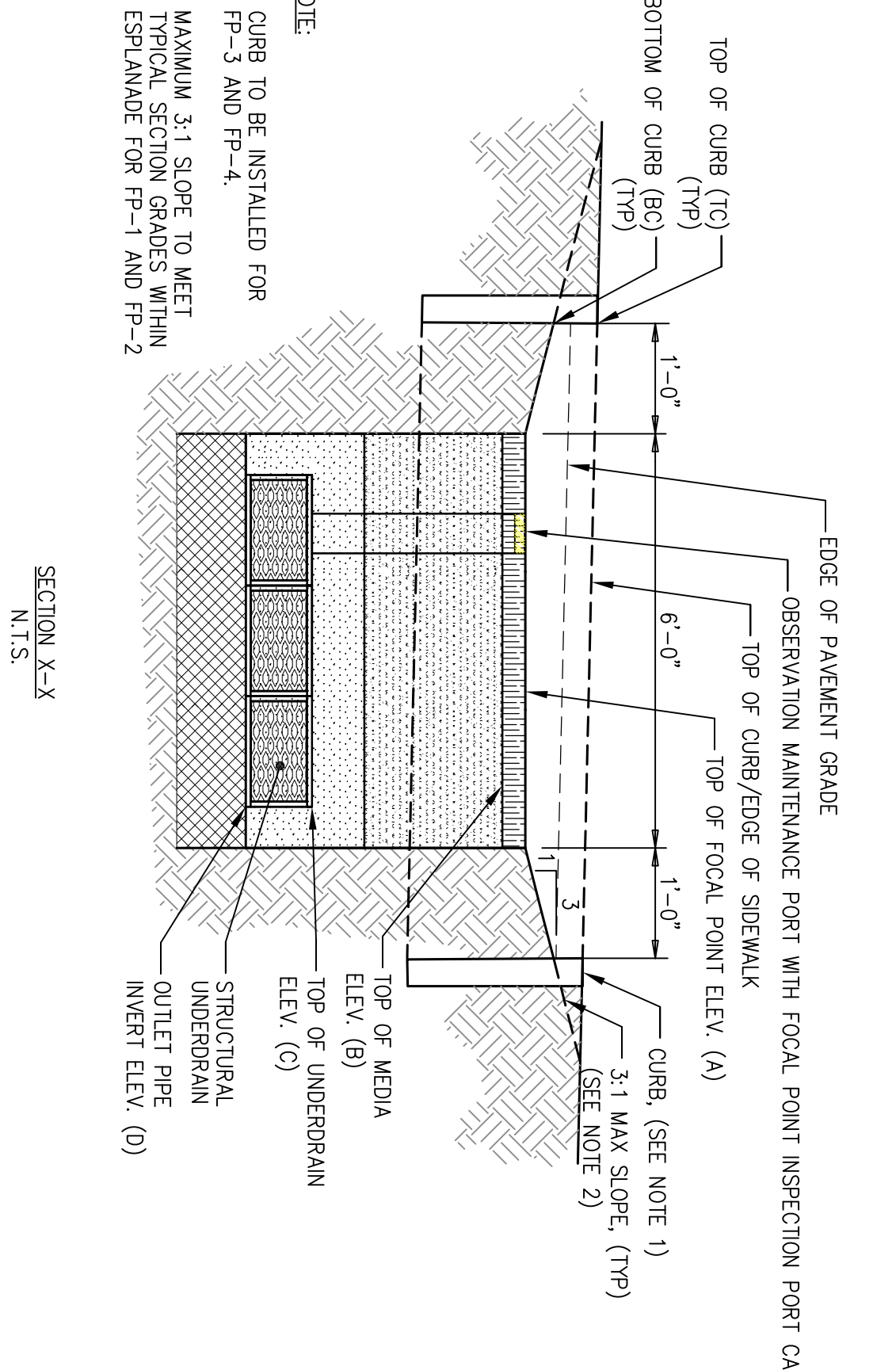
LISTED BY ORGANIC MATERIALS REVIEW INSTITUTE

100% NATURAL PEAT (NO COMPOSTED, SLUDGE, YARD OR LEAF WASTE)	% PASSING 2.0 MM SIEVE	% PASSING 1.0 MM SIEVE
> 85%	95% - 100%	> 80%
TOTAL CARBON	> 85%	
CARBON TO NITROGEN RATIO	15:1 - 23:1	
LIGNIN CONTENT	49% - 52%	
HUMIC ACID	> 18%	
pH	6.0 - 7.0	
MOISTURE CONTENT	30% - 50%	



SECTION VIEW OF INSPECTION PORT

N.T.S.



SECTION X-X

N.T.S.

PROJECT NUMBER: 33229.02 ACAD FILE: 33229-DETAILS.DWG SCALE: NTS DATE: AUGUST 4, 2014

STORMBASIN DETAILS

Project Name and Location:
PAMELA ROAD EXTENSION
 PAMELA ROAD, PORTLAND, MAINE 04101

Prepared For:
TELLOS CAPITAL, LLC
 2 MILK STREET, PORTLAND, MAINE 04101

SOLE ENGINEER:
Northwest Civil Solutions
 INCORPORATED
 153 US ROUTE 1, SCARBOROUGH, MAINE 04074
 Tel: 207.883.1000 Fax: 207.883.1001
 800.882.2227 info@northwestcivilsolutions.com

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