

CROSS SECTION

NOTES

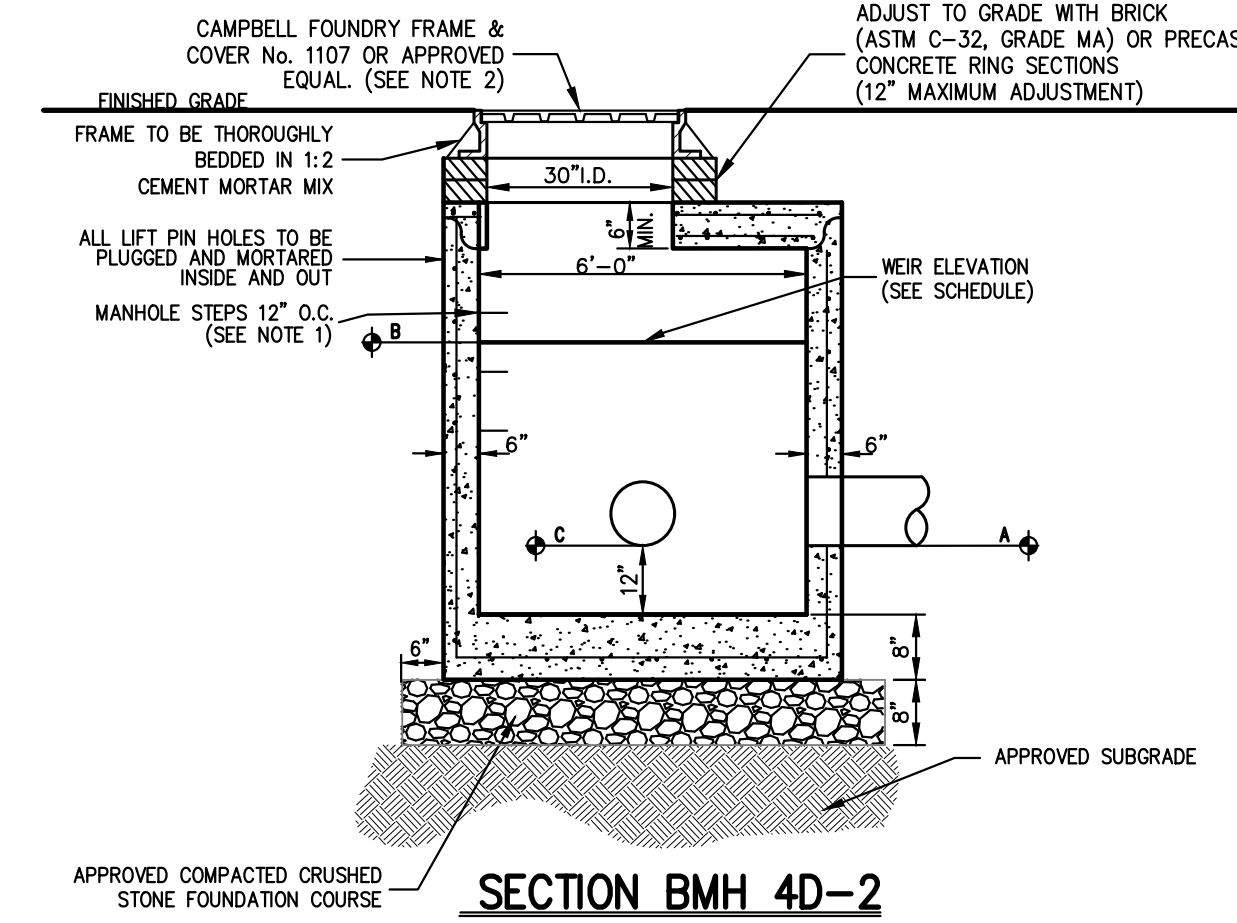
- LIMITS OF SWALE STONE LINING AND UNDERDRAIN IS STATION 12+80 TO 20+42.
- UNDERDRAIN PIPE TO BE CONSTRUCTED OF 8" SMOOTH PERFORATED PVC PIPE PITCHED TO DRAIN AT THE SOUTH END OF THE PIPE BY MAINTAINING A DEPTH OF 4 FEET FROM TOP OF PAVEMENT TO PIPE INVERT.
- NORTH END TO BE CAPPED BY A SOLID CAP.
- UNDERDRAIN BEGINS AT THE WESTERN CORNER OF PUGSLEY ROAD AND NY-312 AT STATION 20+42 AND PROCEEDS SOUTH. THE PERFORATED PIPE RUNS A DISTANCE OF 715' AND SHOULD FOLLOW THE GRADE OF THE PAVEMENT.
- PERFORATED PIPE BECOMES A SOLID PIPE AFTER 715' AND SHOULD BE PLACED AT 1% GRADE TO OUTLET. SMOOTH PERFORATED PIPE TO OUTLET INTO ROADSIDE DITCH.
- PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.

MATERIAL AND MIX/ITEM NUMBERS REFER TO:

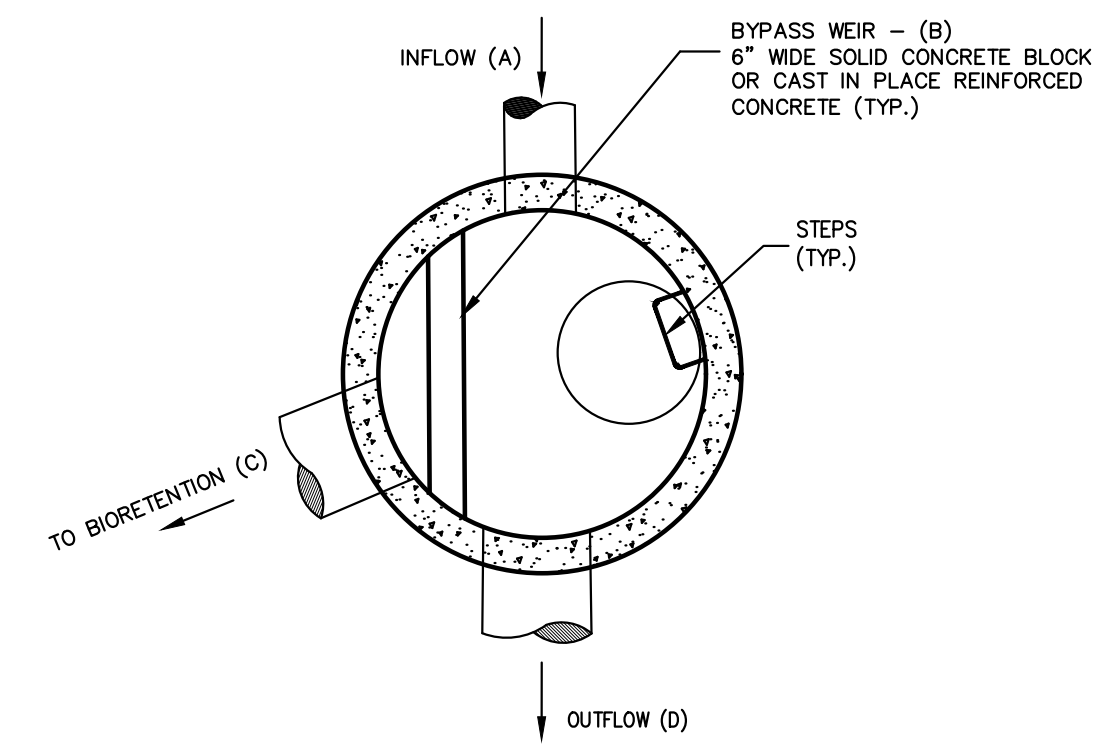
NEW YORK STATE  
DEPARTMENT OF TRANSPORTATION  
STANDARD SPECIFICATIONS

RIP-RAP SWALE (4C-1)

14



SECTION BMH 4D-2



PLAN BMH 4D-2

NOTES

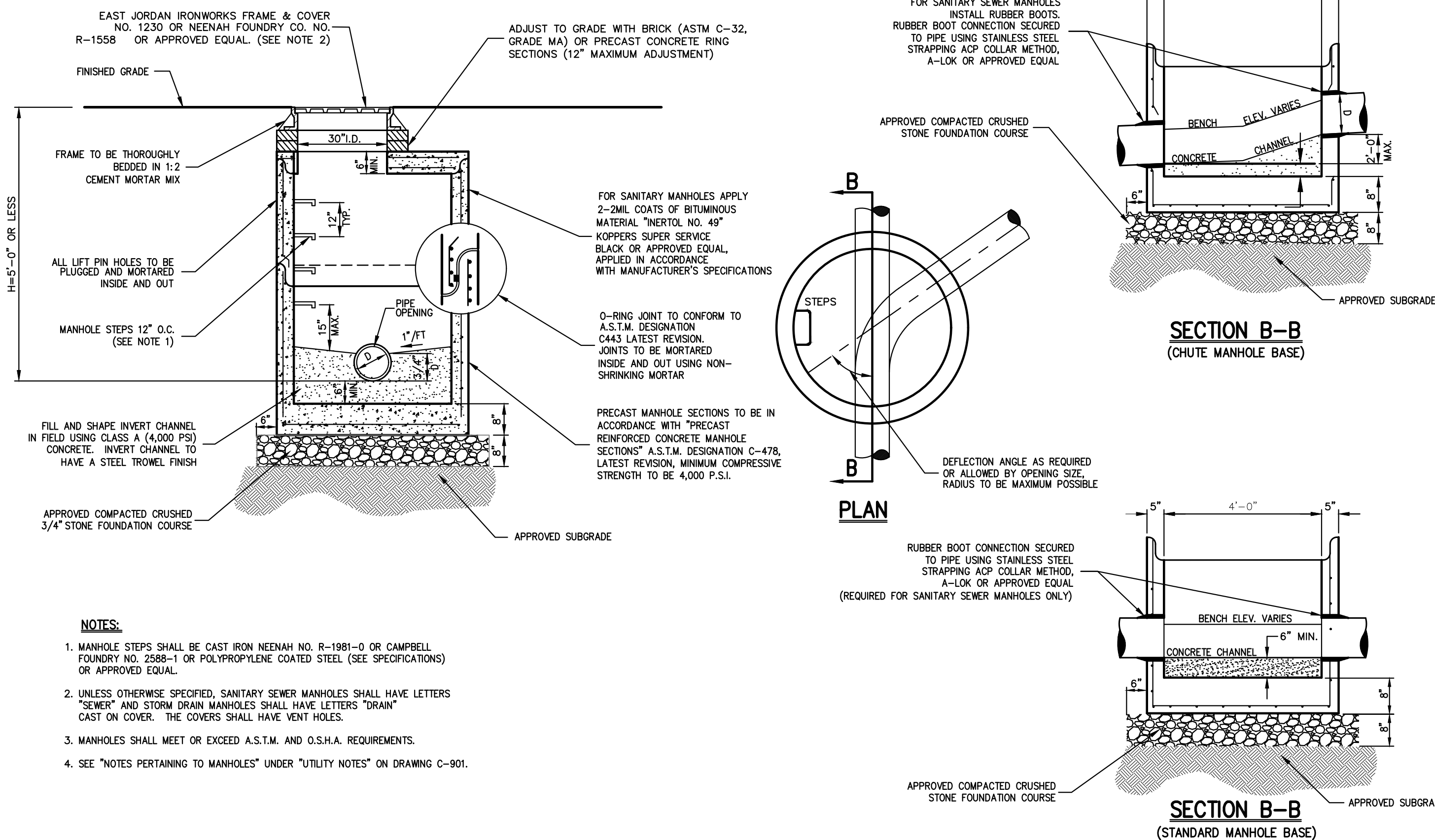
- MANHOLE STEPS SHALL BE CAST IRON NEENAH NO. R-1981-O OR CAMPBELL FOUNDRY NO. 2588-1 OR POLYPROPYLENE COATED STEEL (SEE SPECIFICATIONS) OR APPROVED EQUAL.
- UNLESS OTHERWISE SPECIFIED, STORM DRAIN MANHOLES SHALL HAVE LETTERS "DRAIN" CAST ON COVER. THE COVERS SHALL HAVE VENT HOLES.
- MANHOLES SHALL MEET OR EXCEED A.S.T.M. AND O.S.H.A. REQUIREMENTS.
- SEE "NOTES PERTAINING TO MANHOLES" UNDER "UTILITY NOTES" ON DRAWING SP-21.
- BYPASS MANHOLE SHALL BE MANUFACTURED IN ACCORDANCE WITH ALL APPLICABLE LOCAL STANDARDS. THIS BYPASS MANHOLE HAS BEEN DESIGNED TO FUNCTION WITH THE VORTICES UNIT. IF THE MANHOLE DIFFERS FROM WHAT IS SHOWN OWNERS FILED REPRESENTATIVE AND SITE ENGINEER MUST BE ADVISED SO THAT ALL LENGTHS AND ELEVATIONS CAN BE RECALCULATED, IF NECESSARY.
- O-RING JOINTS TO CONFORM TO A.S.T.M. DESIGNATION C443 LATEST REVISION. JOINTS TO BE MORTARED INSIDE AND OUT USING NON-SHRINKING MORTAR PRECAST MANHOLE SECTIONS TO BE IN.
- ACCORDANCE WITH "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS" A.S.T.M. DESIGNATION C-478, LATEST REVISION, MINIMUM COMPRESSIVE STRENGTH TO BE 4000 P.S.I.

SCHEDULE OF INVERTS AND ELEVATIONS

BYPASS STRUCTURE	A		B		C		D	
	SIZE	INVERT	WEIR LENGTH	ELEVATION	SIZE	INVERT	SIZE	INVERT
BMH 4D-2	18"	530.20	6'	530.73	8"	529.65	8"	530.15

BYPASS MANHOLE 4D-2

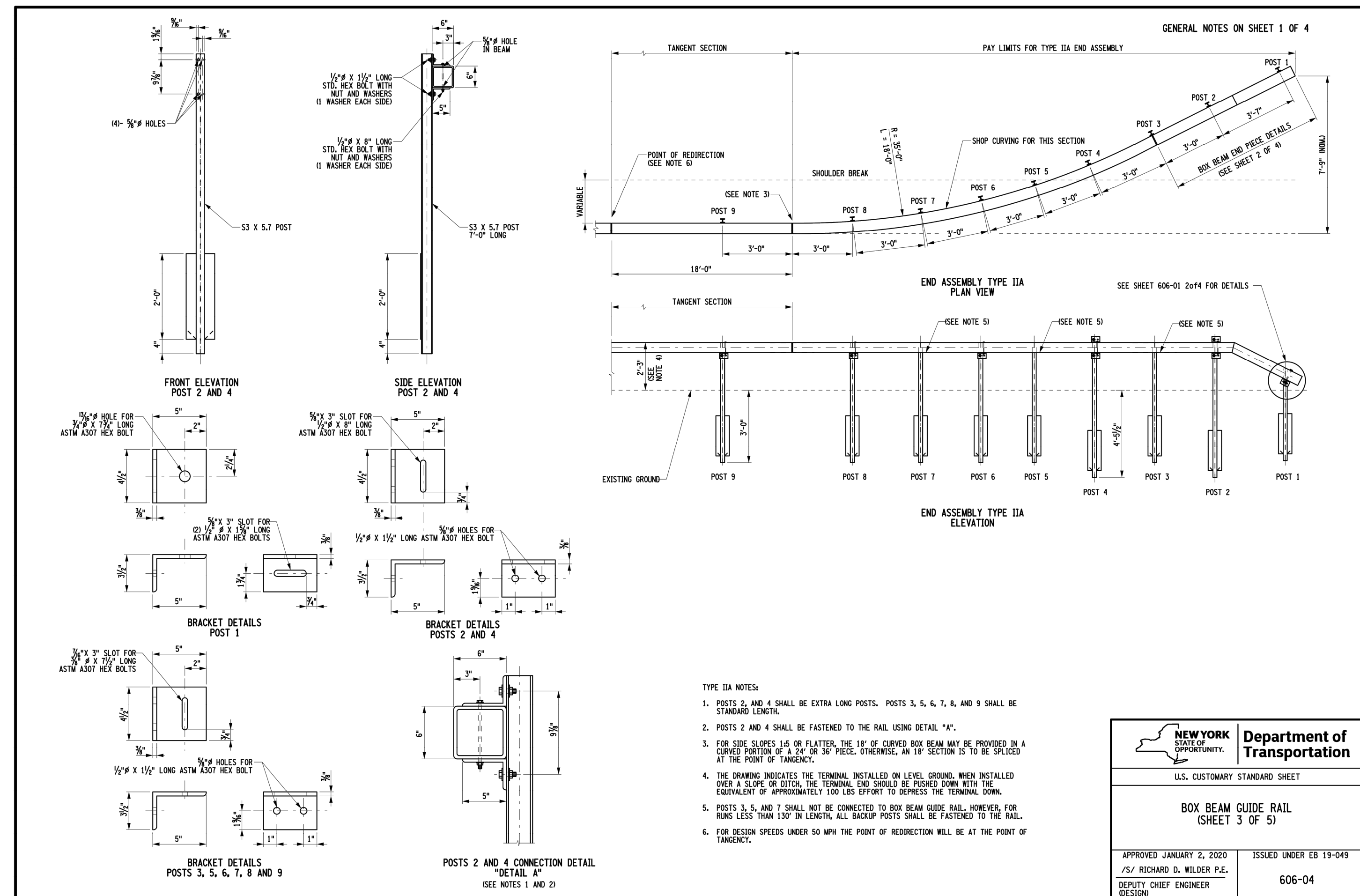
15



MANHOLE (TYPE A)

(H < 5'-0") (NOT PROPOSED WITHIN NYSDOT RIGHT-OF-WAY)

16



BOX BEAM GUIDE RAIL

17

NYSDOT DETAILS

COMMERCIAL CAMPUS AT FIELDS CORNER  
NY 312 & PUGSLEY ROAD  
TOWN OF SOUTHEAST, NEW YORK

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

NEW YORK STATE OF OPPORTUNITY  
Department of Transportation  
U.S. CUSTOMARY STANDARD SHEET  
BOX BEAM GUIDE RAIL  
(SHEET 3 OF 5)  
APPROVED JANUARY 2, 2020  
/s/ RICHARD D. WILDER P.E.  
DEPUTY CHIEF ENGINEER  
DESIGN  
ISSUED UNDER EB 19-049  
606-04

Drawn: KRM Approved: DL  
Scale: NOT TO SCALE  
Date: 12/28/2020  
Project No: 14012/21121  
1402-DETAILS HWY-3  
Drawing No: HP-29