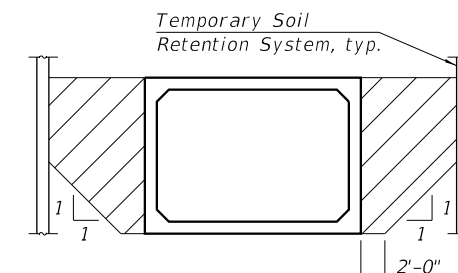
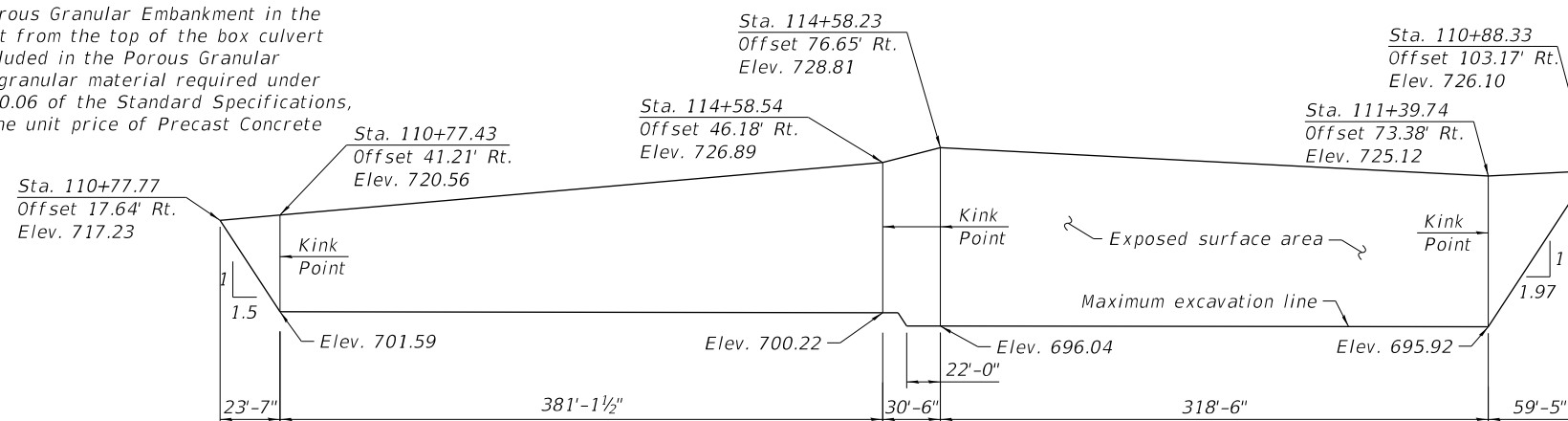


GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Precast concrete box culvert section shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of ASTM C1577. The design fill height for this structure is 16.0 ft.
3. Contractor/Precast manufacturer to provide all details for skewed boxes and/or mitered ends as required. Details and plans shall be submitted for approval and sealed by an Illinois licensed Structural Engineer.
4. Geocomposite Wall Drain shall be according to Section 591 of the Standard Specifications, except that concrete nails shall not be used in areas where it overlaps Membrane Waterproofing System for Buried Structures.
5. Precast concrete box culverts shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 12-inch thick layer of porous granular material required under the precast concrete box culvert, according to Section 540.06 of the Standard Specifications, will not be paid for separately but shall be included in the unit price of Precast Concrete Box Culverts 16'x11' (Special).

TOTAL BILL OF MATERIAL

Item	Unit	Total
Porous Granular Embankment	Cu. Yd.	1,449
Structure Excavation	Cu. Yd.	10,657
Temporary Soil Retention System	Sq. Ft.	20,588
Geocomposite Wall Drain	Sq. Yd.	898
Precast Concrete Box Culverts 16'x11' (Special)	Foot	402
Membrane Waterproofing System for Buried Structures	Sq. Yd.	898

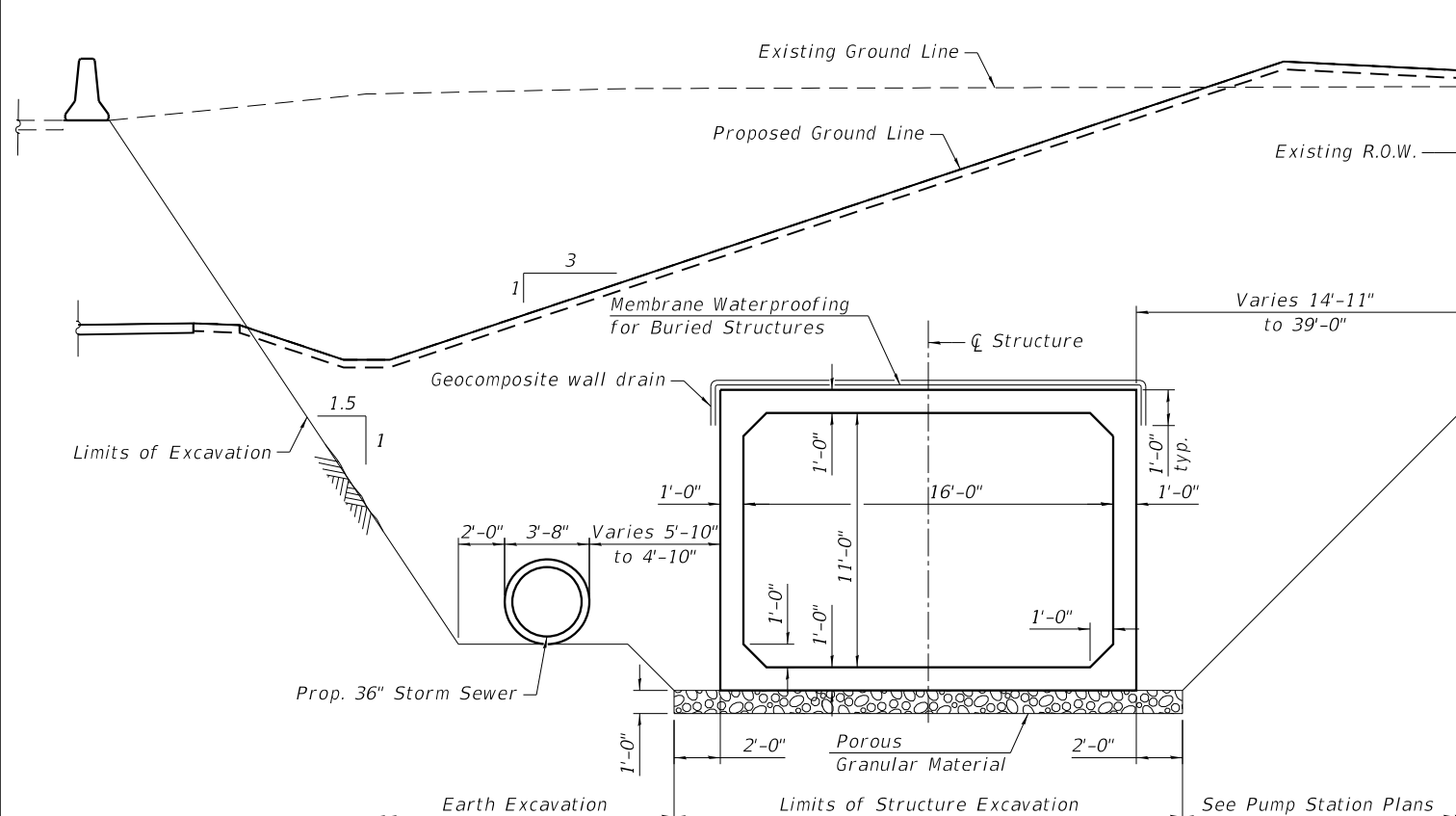


PAY LIMITS FOR POROUS
GRANULAR EMBANKMENT

(Hatched area)

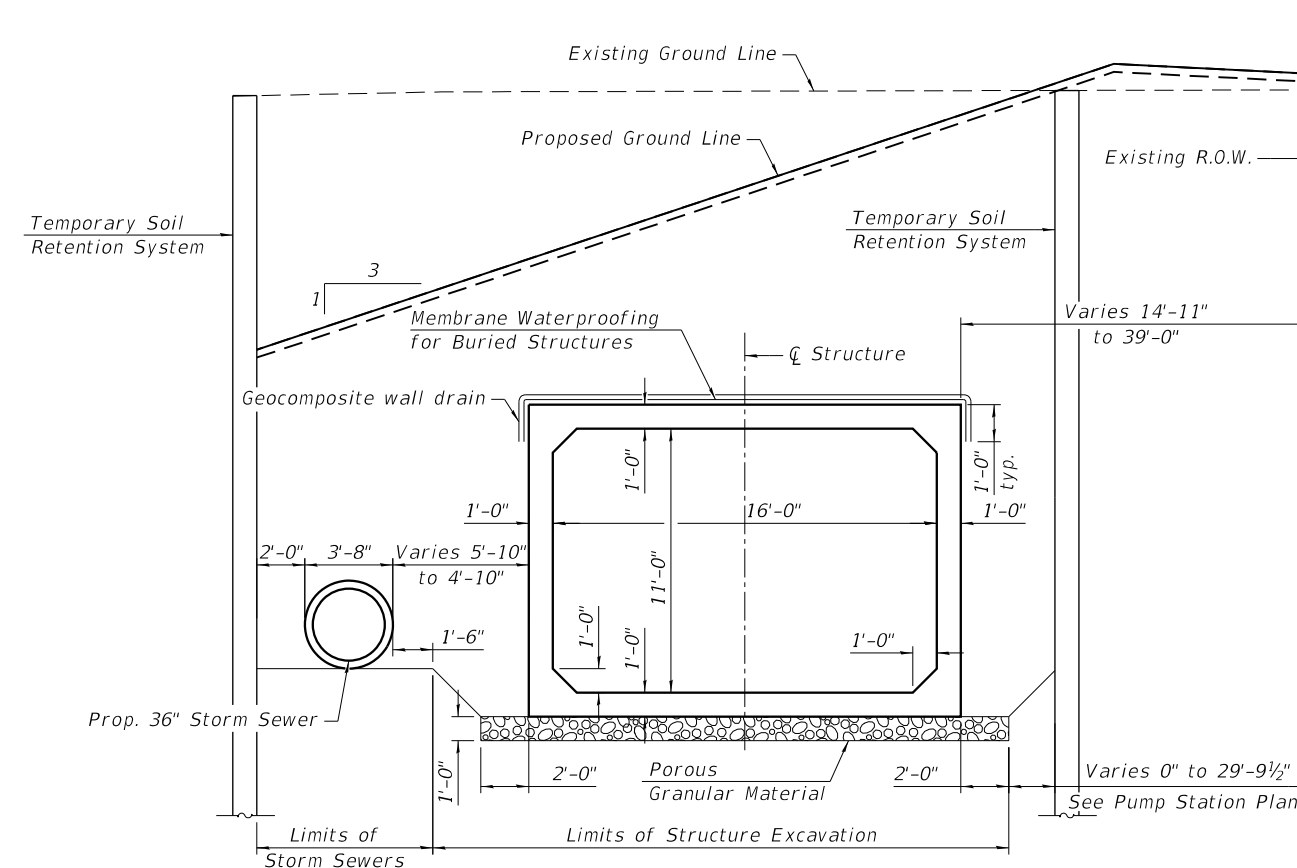
TEMPORARY SOIL RETENTION SYSTEM - ELEVATION

(Unfolded View, Measured along F.F. of Wall)



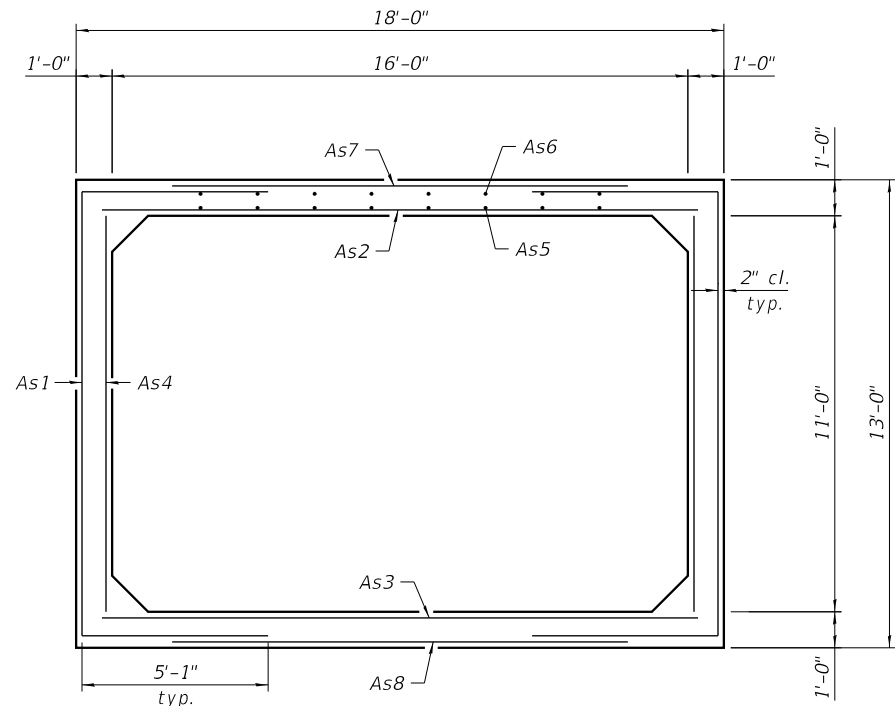
SECTION THRU CULVERT

(Looking East)
(Sta. 110+54.36 to Sta. 110+77.43)



SECTION THRU CULVERT

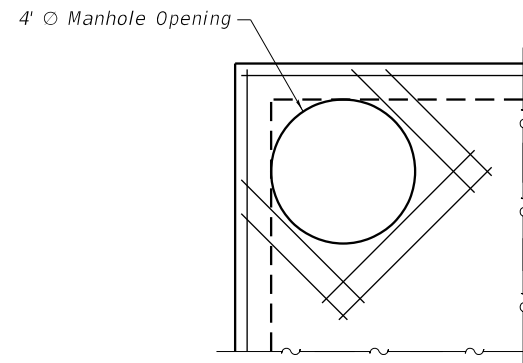
(Looking East)
(Sta. 110+77.43 to Sta. 114+56.34)



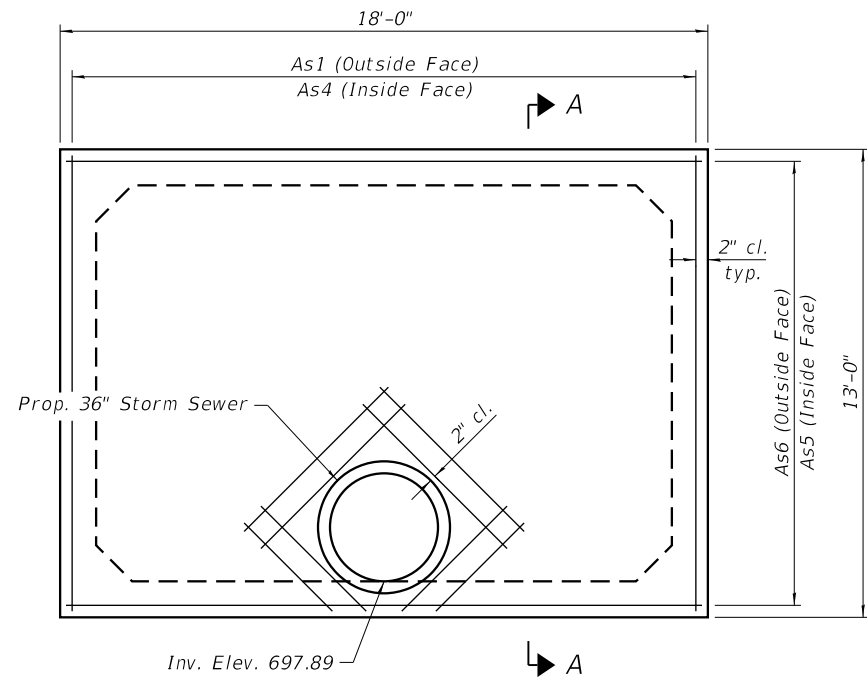
SECTION THRU PRECAST BARREL
(Looking East)

PRECAST BOX CULVERT
REINFORCING TABLE

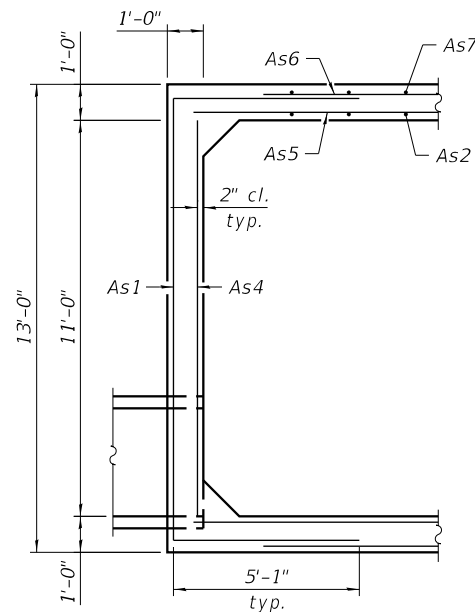
Bar	Area
As1	1.40 in ² /ft
As2	0.90 in ² /ft
As3	0.90 in ² /ft
As4	0.30 in ² /ft
As5	0.29 in ² /ft
As6	0.29 in ² /ft
As7	0.29 in ² /ft
As8	0.29 in ² /ft



MANHOLE DETAIL



PRECAST BARREL END PANEL (WEST)
(Looking East)



SECTION A-A
(Looking North)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS
STORAGE CHAMBER

SHEET 3 OF 4 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1509	06-00133-00-BR	DUPAGE	426	246
CONTRACT NO. 61G79				
ILLINOIS FED. AID PROJECT				

TRANSYSTEMS

USER NAME	=	jrmickow	DESIGNED	-	JM	REVISED	-	04/16/2025	JRM
PLOT SCALE	=	8:0.0000 " / in.	CHECKED	-	MDS	REVISED	-		
PLOT DATE	=	4/16/2025	DRAWN	-	JM	REVISED	-		
			CHECKED	-	MDS	REVISED	-		