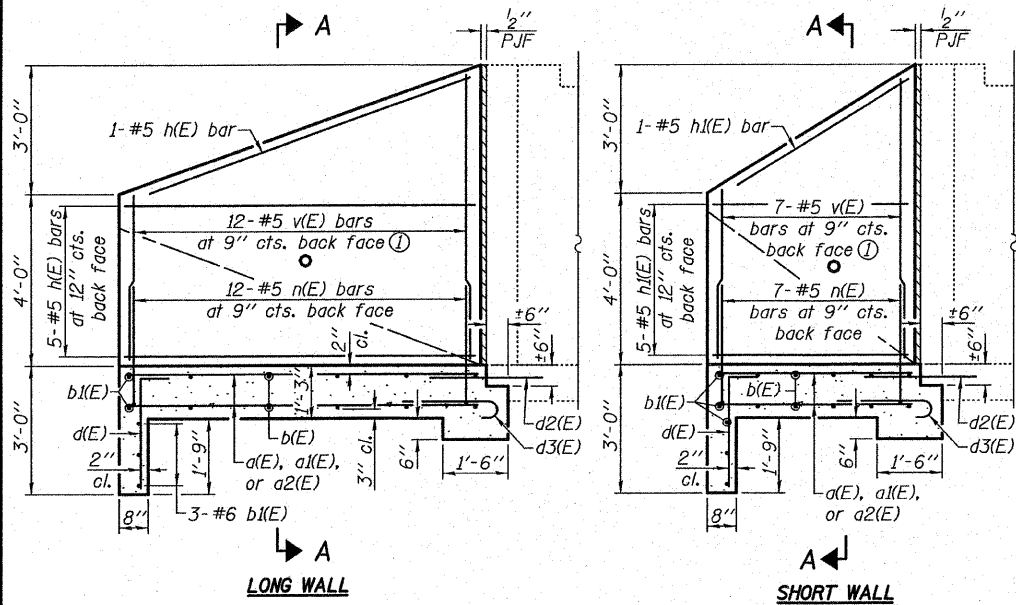
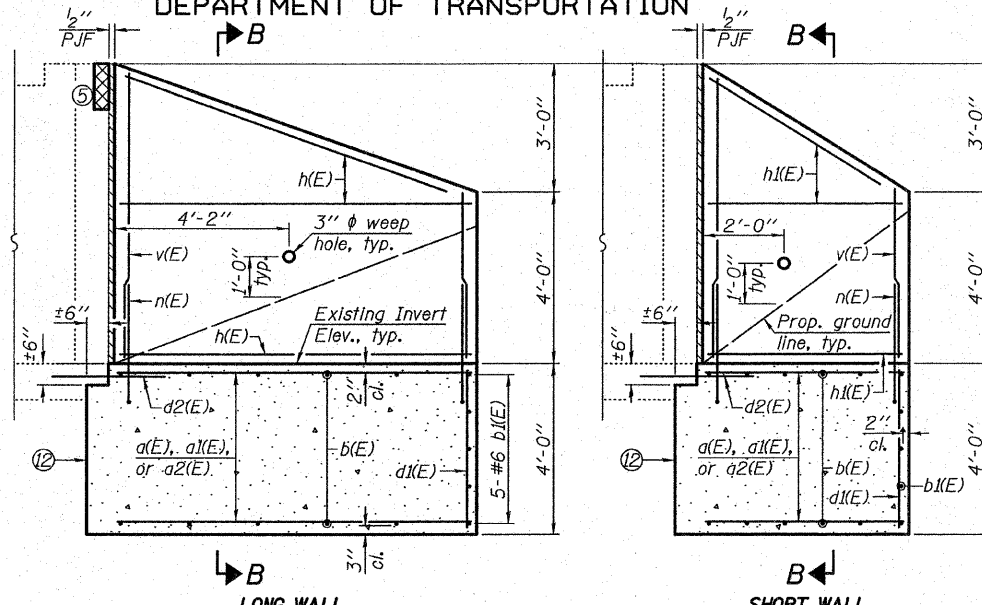


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



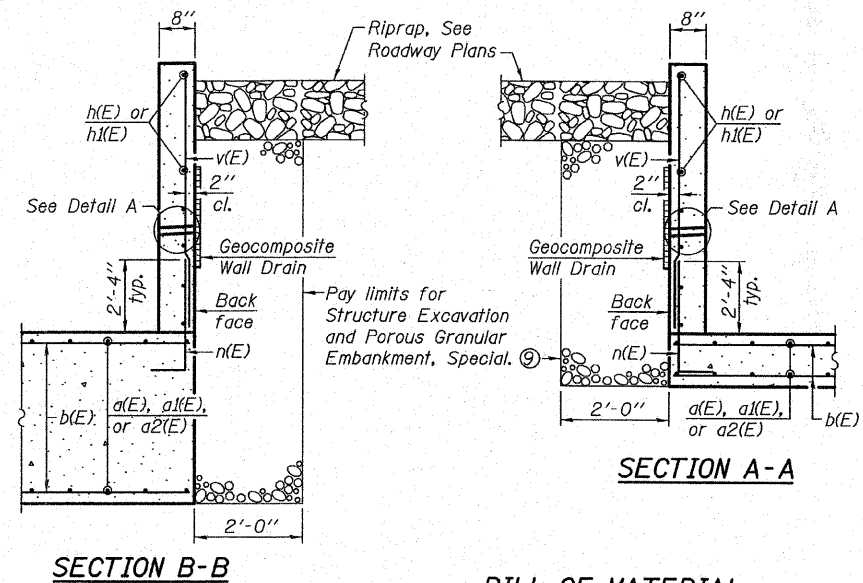
UPSTREAM WINGWALL ELEVATION

See Downstream for weep hole placement.



DOWNSTREAM WINGWALL ELEVATION

See Upstream for wingwall reinforcement call-outs.



SECTION B-B

SECTION A-A

BILL OF MATERIAL

Bar No.	Size	Length	Shape
a(E)	20	#6	4'-10"
a1(E)	32	#6	3'-11"
a2(E)	6	#6	5'-7"
b(E)	10	#6	22'-1"
b1(E)	10	#6	15'-4"
d(E)	16	#5	3'-4"
d1(E)	16	#5	3'-7"
d2(E)	12	#5	2'-6"
d3(E)	7	#5	3'-3"
h(E)	12	#5	8'-2"
h1(E)	12	#5	4'-7"
n(E)	38	#5	4'-2"
v(E)	19	#5	10'-4"
Porous Granular Embankment, Special			Cu. Yd. 11
Concrete Removal			Cu. Yd. 8.8
Structure Excavation			Cu. Yd. 21
Reinforcement Bars, Epoxy Coated			Pound 1,650
Concrete Box Culverts			Cu. Yd. 15.5
Geocomposite Wall Drain			Sq. Yd. 9
Structural Repair of Concrete (Depth equal to or less than 5 inches)			Sq. Ft. 3

DESIGN STRESSES

FIELD STRESSES

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

GENERAL PLAN

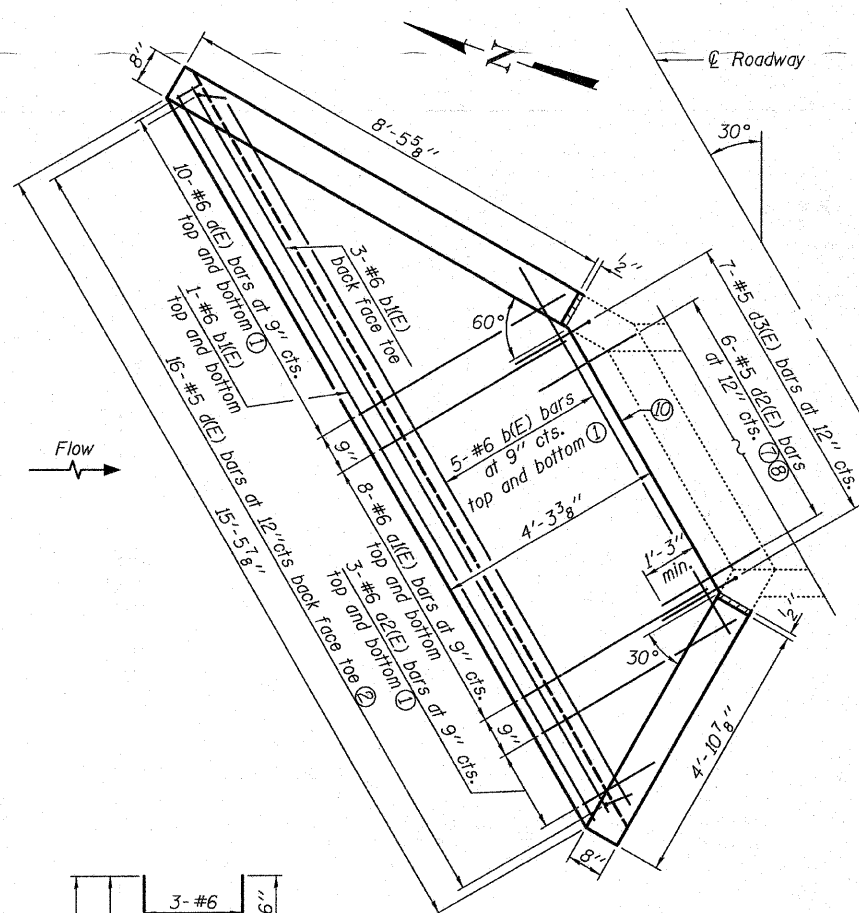
FOSTERBURG ROAD

FAU 9002 - SECTION 09-00218-05-RS

MADISON COUNTY

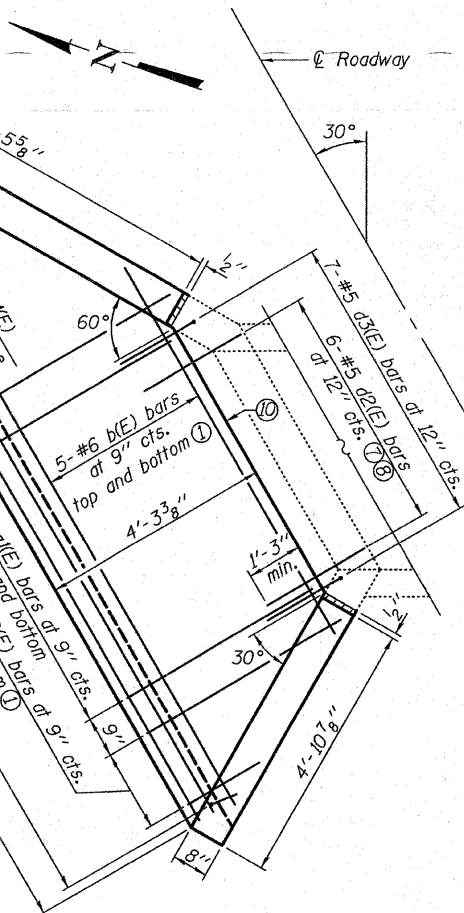
WINGWALL REPLACEMENT

STATION 202+31.22



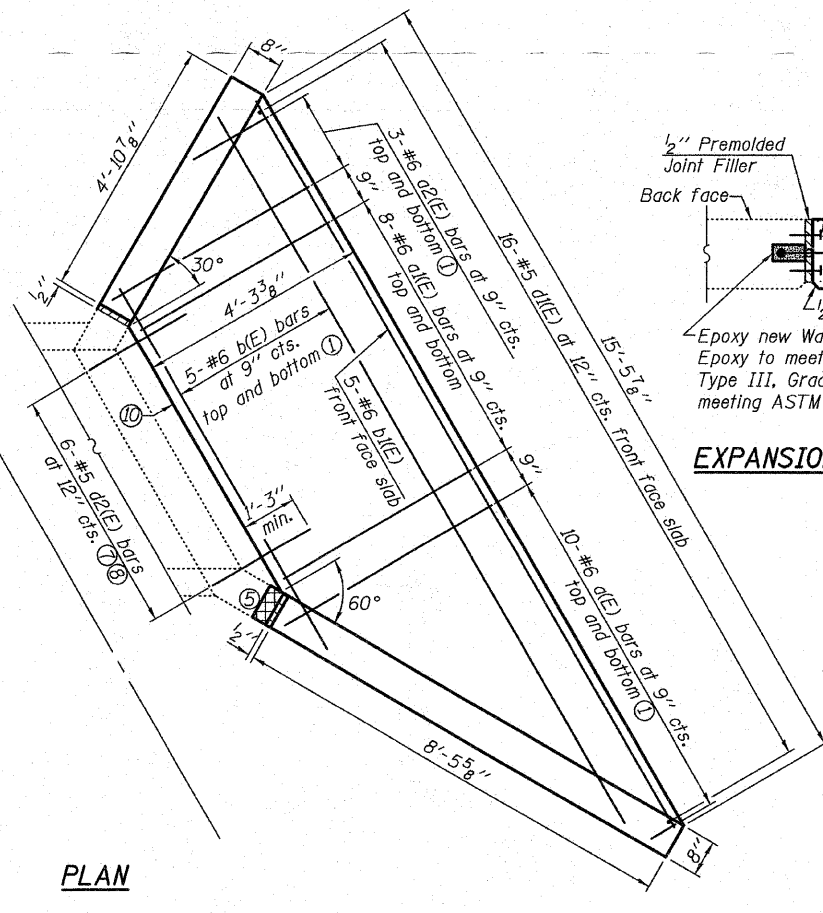
FIELD CUTTING DIAGRAM

Order a2(E) full length. Cut as shown and use remainder of bars in opposite face of slab.



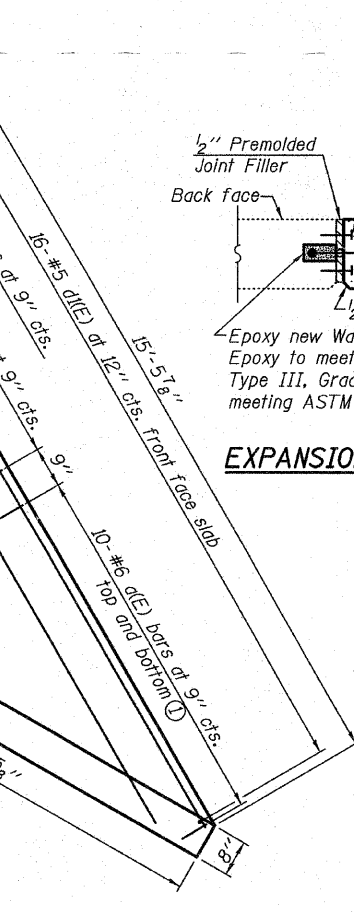
FIELD CUTTING DIAGRAM

Order b(E) full length. Cut as shown and use remainder of bars in opposite face of slab.



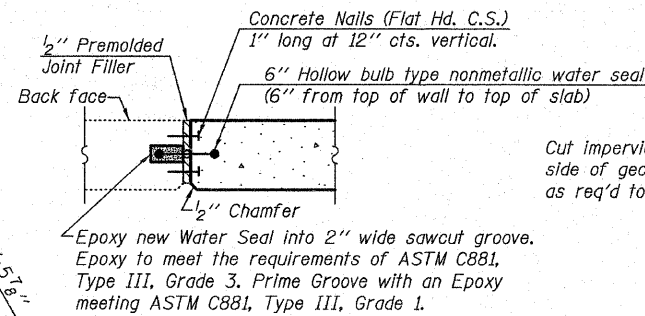
FIELD CUTTING DIAGRAM

Order a(E) full length. Cut as shown and use remainder of bars in opposite face of slab.



FIELD CUTTING DIAGRAM

Order v(E) full length. Cut as shown and use remainder of bars in opposite wall.



EXPANSION JOINT DETAIL

Notes:

- See Field Cutting Diagram.
- Fan bars at ends of slab as required to fit.
- Reinforcement bars designated (E) shall be epoxy coated.
- Minimum bar lap: #5 bars = 2'-2"
- Cross-hatched area indicates Structural Repair of Concrete. See Special Provisions.
- Included in the cost of Concrete Box Culverts.
- Bar d2(E) shall be epoxy grouted into existing culvert according to Section 584 of the Standard Specifications. Embedment shall be according to the epoxy manufacturer's specifications. Cost to be included with Reinforcement Bars, Epoxy Coated.
- Contractor shall make an effort to avoid existing reinforcement when drilling holes for d2(E) bars. Existing plans are available upon request from the Resident Engineer and show reinforcement bars located at 12" cts.
- Over excavation beyond the limits of Structure Excavation shall not be measured for payment. Backfill beyond the limits shall not be measured for payment and shall be incidental to Structure Excavation.
- End of bottom slab of existing culvert.
- All edges shall have standard 3/4" chamfer.
- Structure Excavation under the existing culvert is limited horizontally to the ±6" slab ledge dimension. Any void under the culvert beyond the slab ledge at the time of concrete placement shall be backfilled with concrete poured monolithically with the proposed slab. Cost of additional concrete shall not be measured separately but included in the price of Concrete Box Culverts.



10/13/09
Exp 11/30/10



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SHEET NO. 1	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	9002	09-00218-05-RS	MADISON	8	8
1 SHEETS	CONTRACT NO. 97407				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

DESIGNED JAD
CHECKED MJP
DRAWN JAD
CHECKED MJP