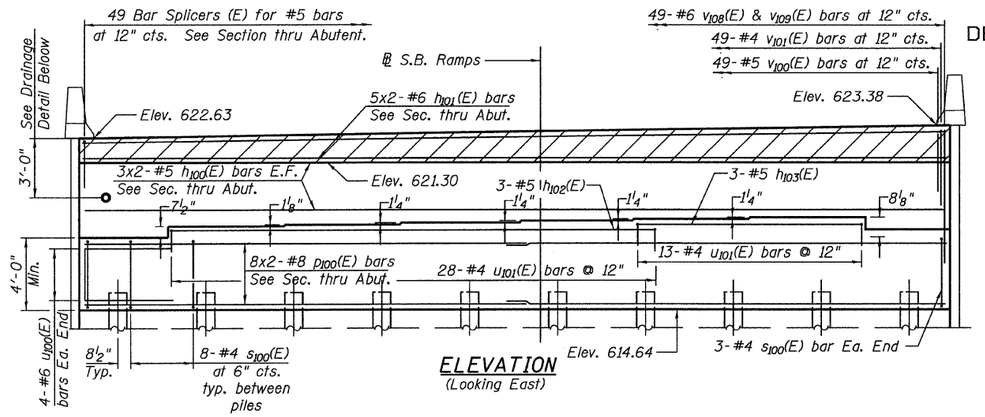
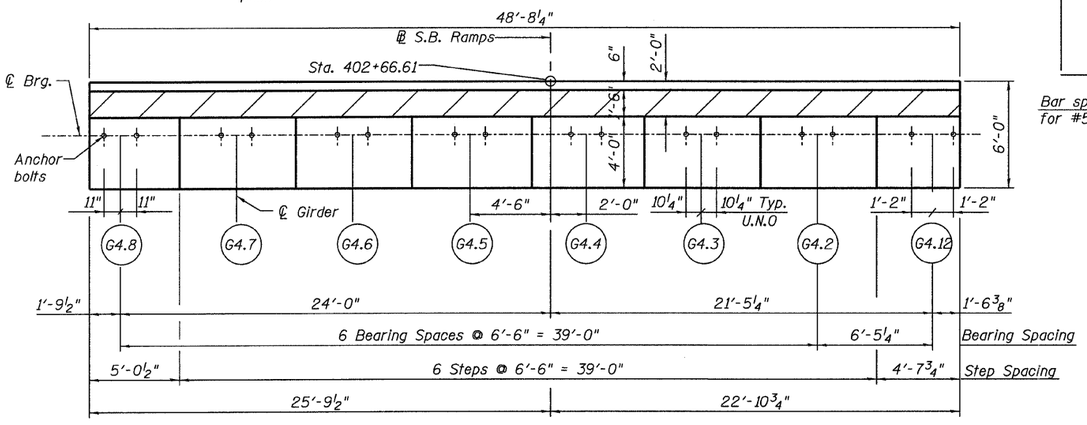
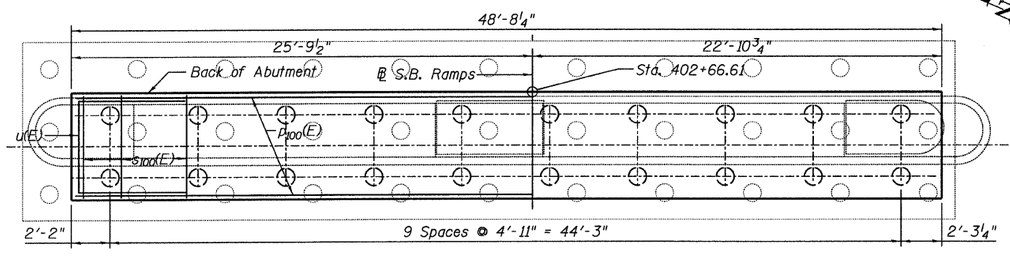
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



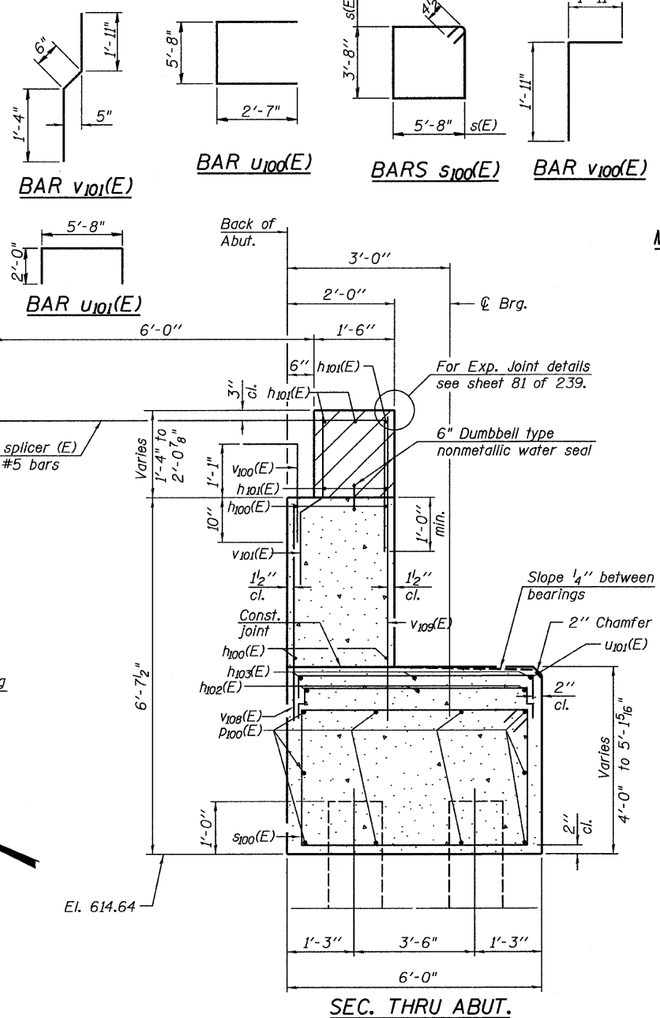
ELEVATION
(Looking East)



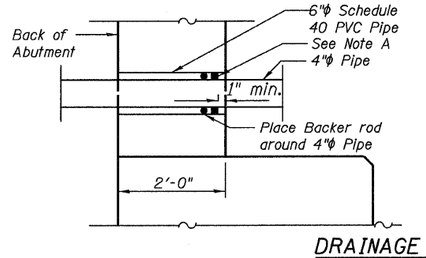
TOP VIEW



PLAN-PILE CAP



SEC. THRU ABUT.



DRAINAGE DETAIL

Note A:
Non-staining gray one component non-sag elastomeric gun grade polyurethane sealant meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25 rod.

Shown for 6"ϕ pipe.
Use 10"ϕ Schedule 40 PVC pipe for 8"ϕ drainage pipe.

Note: Backer Rod, 6"ϕ PVC Pipe & sealant shall be included in the cost of Concrete Structures.

BAR v101(E)

BAR u100(E)

BARS s100(E)

BAR v100(E)

BAR u101(E)

BRIDGE SEAT ELEVATIONS

Beam	Elevation
G4.12	619.06
G4.2	619.74
G4.3	619.65
G4.4	619.55
G4.5	619.45
G4.6	619.35
G4.7	619.26
G4.8	618.64

MINIMUM BAR LAPS

Bar	Lap
#4	1'-9"
#5	2'-2"
#6	2'-7"
#6	3'-7" (Top)
#7	3'-5"
#7	4'-10" (Top)
#8	4'-6"

RAMP 4 ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h100(E)	12	#5	25'-3"	
h101(E)	10	#6	25'-6"	
h102(E)	3	#5	28'-0"	
h103(E)	3	#5	12'-8"	
p100(E)	16	#8	26'-7"	
s100(E)	78	#4	19'-5"	
u100(E)	8	#6	10'-10"	
u101(E)	41	#5	9'-8"	
v100(E)	49	#5	3'-10"	
v101(E)	49	#4	3'-9"	
v108(E)	49	#6	4'-1	
v109(E)	49	#6	6'-2	
Structure Excavation		Cu. Yd.	202.4	
Concrete Structures		Cu. Yd.	59.0	
Reinforcement Bars, Epoxy Coated		Pound	4490	
Furnishing Metal Shell Piles 12"x 0.25"		Foot	1,159	
Driving Piles		Foot	1,159	
Test Pile Metal Shells		Each	1	
Concrete Sealer		Sq. Ft.	605.0	

For details of Bar Splicers, see sheet 224 of 239.

PILE DATA

Type:	Metal Shell 12" ϕ x 0.25" wall.
Nominal Required Bearing:	270 kips
Factored Resistance Available:	90 kips
Est. Length:	61'
No. Production Piles:	19
No. Test Piles:	1

NOTES:

1. Space reinforcement in cap to miss anchor bolts.
2. Pour steps monolithically with cap
3. Hatched area to be poured after superstructure forms have been removed. Quantity of concrete included with Concrete Superstructure.
4. Bars indicated thus 20 x 3- #7 etc. indicates 20 lines of bars with three lengths per line.
5. Piles shall be driven prior to placement of the reinforced select fill and coated with coal tar epoxy from the bottom of the select fill to 1" above the base of the abutment. The cost of the coal tar epoxy coating shall be included with the cost of the Furnishing Piles.
6. Align bar splicer to be parallel to approach slab reinforcement.

RAMP 4 ABUTMENT
STRUCTURE NO. 016-0724

TYLIN INTERNATIONAL

		REVISIONS	
DESIGNED	JMA	NAME	DATE
CHECKED	AMD,		
DRAWN	JMA		
CHECKED	AMD,		
DATE	03/25/2011		

SHEET NO. 220	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
239 SHEETS	55	0711.2R & 1011.1BR	COOK	741	544
			CONTRACT NO. 60999		
	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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