68201

68201	ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FAI 74	*	TAZEWELL	1366	601
	STA.		TO STA.		
	F.H.W.A. REGION		ILLINOIS	PROJECT	

SHEET 56 OF 56

LEGEND - IDOT TEST BORING LOGS

Silty Clay Loam — Textural classification of soil in accordance with IDOT Triangular Chart.

BLOWS/150mm — Number of blows required to drive a standard soil sampling device 150 mm as conducted in accordance with AASHTO T 206 standard specification.

Q_u, kPa — Unconfined compression strength of soil in kilopascals determined in accordance with AASHTO T 208 standard specification.

Moist, % — Natural moisture content of soil and bedrock in percent determined in accordance with AASHTO T 265 standard specification and AASHTO T 265/ASTM D 2216 for bedrock.

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 2

Date 8/1/03

ROUTE FAI-74 DESCRIPTION Ramp K-2 & J-3 LOGGED BY DPS

SECTION 72-6,7,8,9-1,86-11,90-12,13,14 LOCATION , SEC., TWP., RNG.

COUNTY Peoria & Tazewell DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.
Station

BORING NO. K2MJ3-4
Station 10+564
Offset 16.00m Rt. CL
Ground Surface Elev. 143.50 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter none m
Upon Completion none m
After 24 Hrs. not taken m

DEPTH (m)	BLOWS /150 mm	UCS Qu (kPa)	MOIST (%)
no sample taken 0-.45m			
143.04			
Gray SHALEY CLAY	6		
	9		13.0
	7		
	17		
-1.5	34		10.6
	66		
	5		
	17		14.8
	30		
	11		
-3.0	17		13.6
	23		
	11		
	33		9.3
	49		
139.23			
Light Gray SHALE 139.06	100@2"		
-4.5			
Borehole continued with rock coring.			
-6.0			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
IDOT

ROCK CORE LOG

Page 2 of 2

Date 8/1/03

ROUTE FAI-74 DESCRIPTION Ramp K-2 & J-3 LOGGED BY DPS

SECTION 72-6, 7, 8, 9-1, 90-11, 99-12, 13, 14 LOCATION , SEC., TWP., RNG.

COUNTY Peoria & Tazewell CORING METHOD Double Barrel

STRUCT. NO.
Station

CORING BARREL TYPE & SIZE NWD4

BORING NO. K2MJ3-4
Station 10+564
Offset 16.00m Rt. CL
Ground Surface Elev. 143.50 m

Core Diameter 52 mm
Top of Rock Elev. 139.23 m
Begin Core Elev. 139.06 m

DEPTH (m)	CORE (#)	RECOVERY (%)	RQD (%)	CORE TIME (min/0.3m)	STRENGTH (kPa)
Gray SHALE 139.06	1	98	72		1091
		6.8%	moisture @ 4.42m		1822
		7.8%	moisture @ 4.60m		
		8.7%	moisture		1568
		8.8%	moisture		700
		8.3%	moisture		1826
-4.0	2	98	86		2272
		7.1%	moisture		
		7.0%	moisture		4408
		7.1%	moisture		763
		7.0%	moisture		1205
		6.9%	moisture		7917
.06m seam of Gray sandstone @ 7.28m					
-7.5		7.2%	moisture		4279
	3	100	100		1846
		8.3%	moisture		
		9.0%	moisture		2021
		8.0%	moisture		3424
		7.7%	moisture		4885
		81%	moisture		4950
		8.2%	moisture		4314
-8.0		7.8%	moisture		3296
	4	6.8%	moisture		6366
.03m seam of Gray sandstone @ 9.0m					
134.67		7.1%	moisture		5896
Gray SANDSTONE 133.99		8.2%	moisture		2628
End of Boring					

Color pictures of the cores No
Cores will be stored for examination until
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

DESIGNED	WJZ
CHECKED	SWS
DRAWN	RMG
CHECKED	DJM

alfred benesch & company
CONSULTING ENGINEERS
205 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 3573

ILLINOIS DEPARTMENT OF TRANSPORTATION
RAMP K-2 OVER
MAIN ST & RAMP J-3
F.A.I. ROUTE 74 (I-74)
SECTION 90-11HB-5
SOIL BORING & ROCK CORE LOGS
K2MJ3-4

SN: 090-0156
TAZEWELL CO., IL.

STA. 10+529.222
DATE: 12-23-04

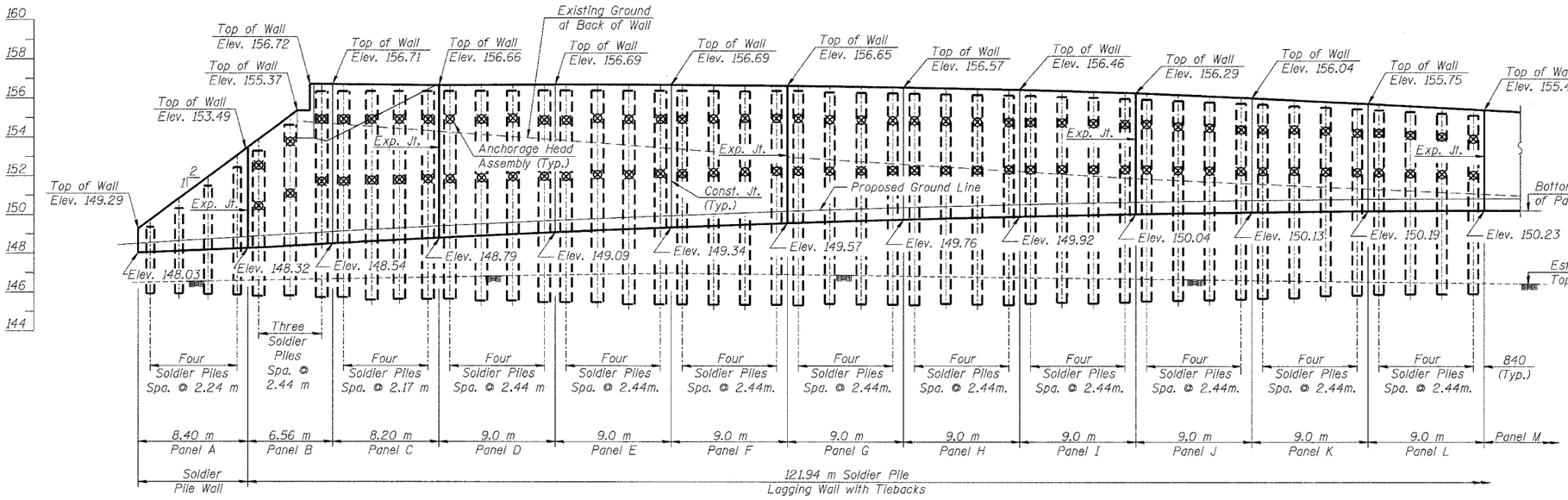
2/3/2005
m:\proj\3573\r-ramp_k2\stillsbil-7a090156.dgn

Bench Mark: Chisel '□' S.E. Corner Camp St., bridge parapet concrete wall state point TH 8905. Elev. 149.398

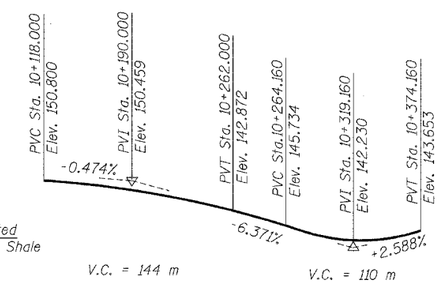
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	1366	602
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

★90-11HB-5

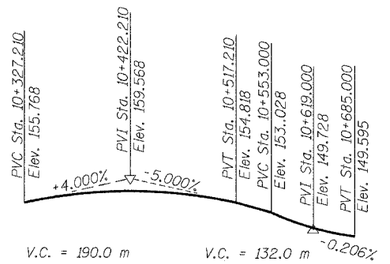
SHEET NO. 1
21 SHEETS



ELEVATION
(Looking East)

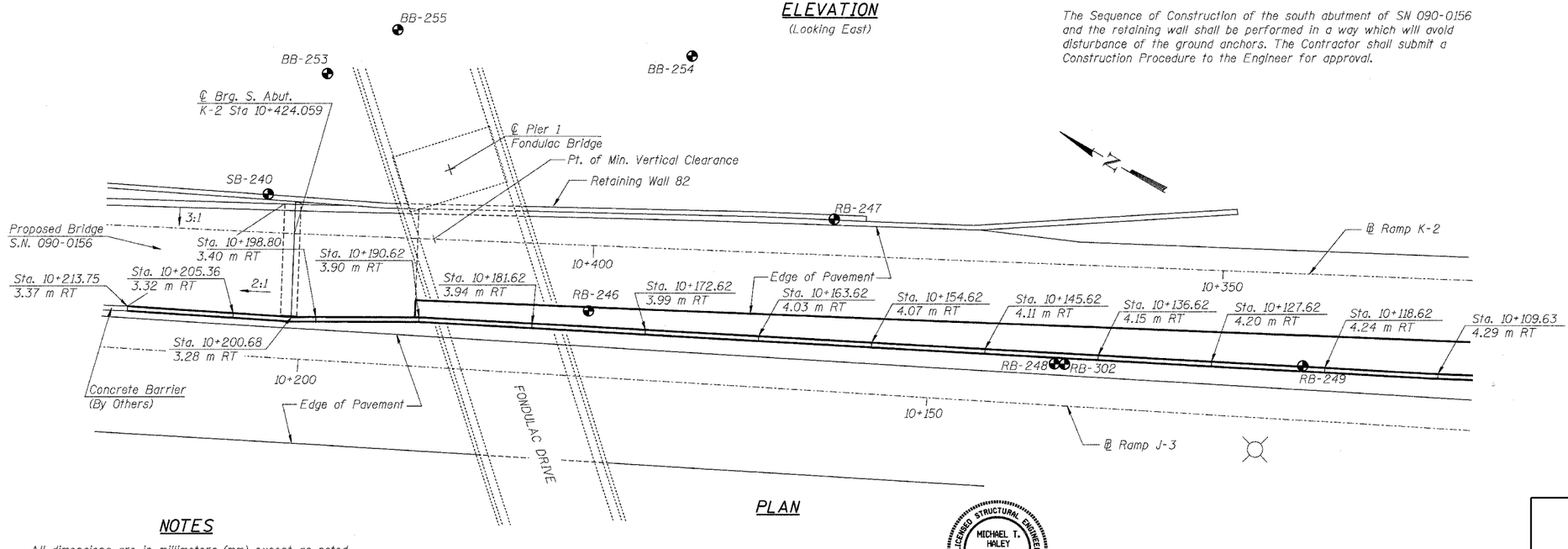


PROFILE GRADE RAMP J-3

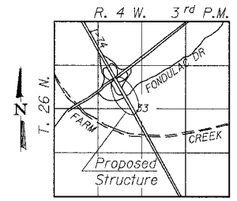


PROFILE GRADE RAMP K-2

The Sequence of Construction of the south abutment of SN 090-0156 and the retaining wall shall be performed in a way which will avoid disturbance of the ground anchors. The Contractor shall submit a Construction Procedure to the Engineer for approval.



PLAN



LOCATION SKETCH

NOTES

All dimensions are in millimeters (mm) except as noted.
All retaining wall stations/offsets are off J-3 Baseline.

DESIGN SPECIFICATIONS

1996 AASHTO Specifications
with 1997, thru 2000 Interim

DESIGN STRESSES

f'_c = 24 MPa (Concrete)
f'_c = 27.5 MPa (Grout)
f_y = 400 MPa (Reinf.)
f_y = 345MPa (Soldier Piles) (M270 M Grade 345)
f_s = 1860 MPa (15mm ϕ Low Lax Strands)
f_{si} = 1395 MPa (15mm ϕ Low Lax Strands)

LICENSED STRUCTURAL ENGINEER ★ MICHAEL T. HALEY 81-5991 CHATHAM ★ STATE OF ILLINOIS

Michael T. Haley 12-20-04
Michael T. Haley — Date
Licensed Structural Engineer
State of Illinois No. 81-5991

REVISIONS
NAME

LIN ENGINEERING, LTD.
210 W. Chestnut, Chatham, Illinois 62629
(217) 483-4468 FAX (217) 483-4706
Designed By: MTH | Checked By: KRG | Drawn By: JMD
Date: 09-02 | Files: rp0401-5b090852.dgn

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
RETAINING WALL 81
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP J-3 STATION 10+037 TO 10+213
S.N. 090-8512

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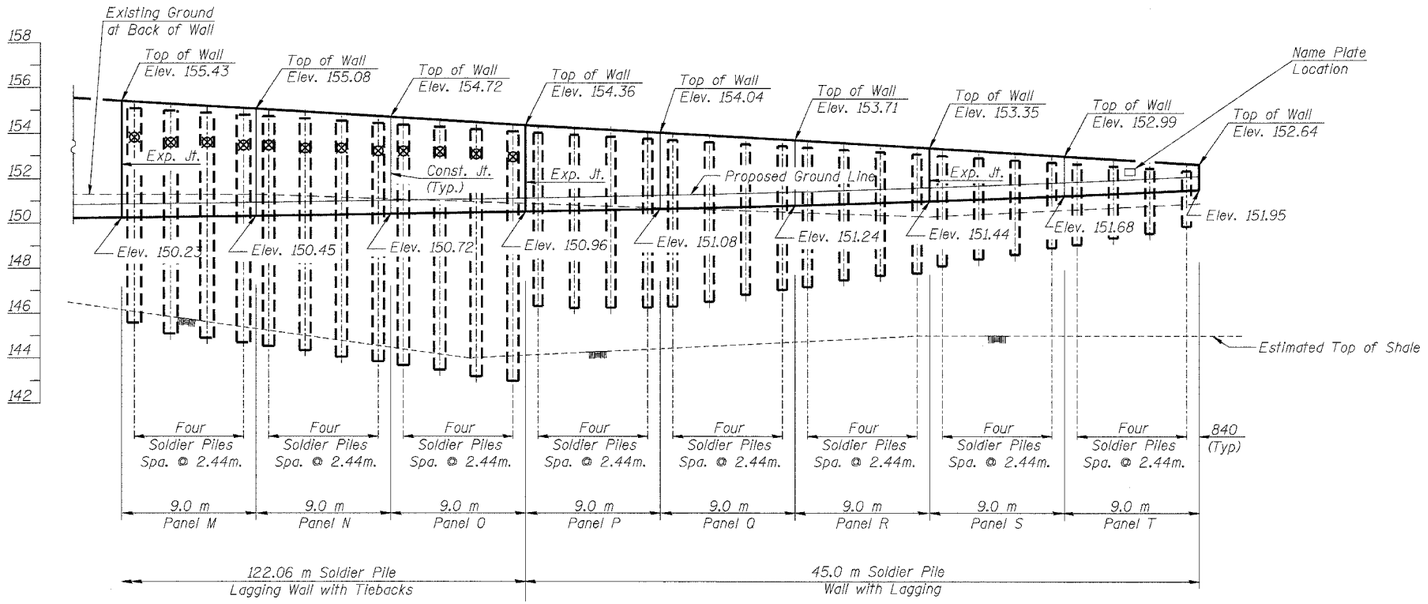
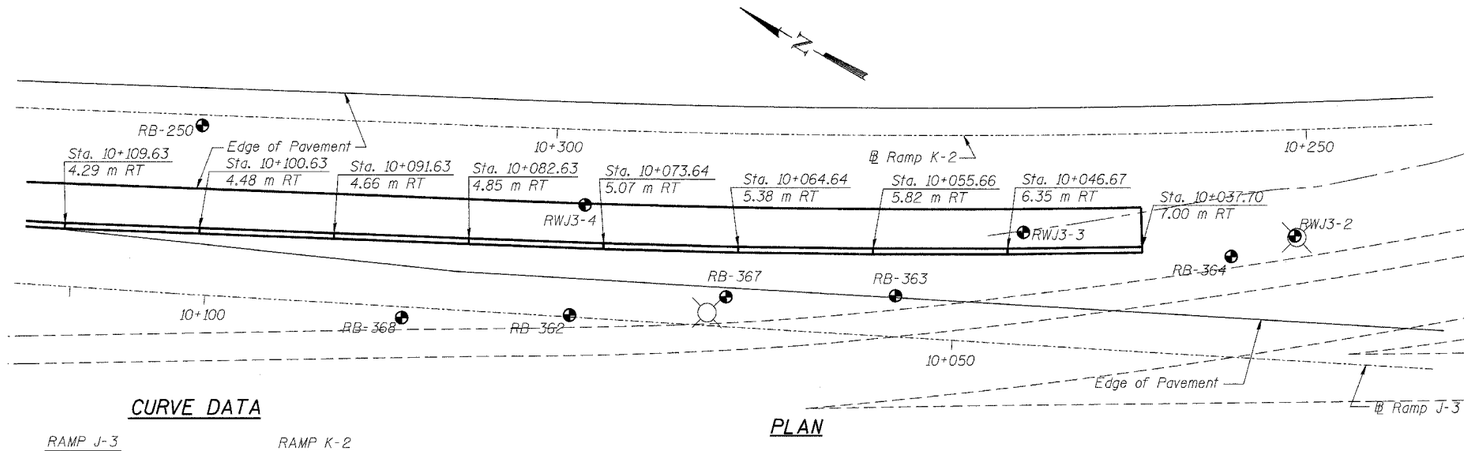
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	1366	603
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 2
2.1 SHEETS

★90-11HB-5



ELEVATION
(Looking East)



PLAN

CURVE DATA

	RAMP J-3	RAMP K-2
△	6°05'48.00"	7°58'57.09"
R	450.000 m	
T	23.964 m	40.469 m
L	47.883 m	80.806 m
E	0.638 m	1.410 m
PC	10+204.232	10+423.959
PI	10+228.196	10+481.535
PT	10+252.115	10+504.765
SE	6.2%	4.4%
Transition in:	10+177 to 10+218	10+385 to 10+443
Transition out:	10+237 to 10+283	10+486 to 10+544

STATION 10+040
BUILT 200_ BY
STATE OF ILLINOIS
FAI RTE 74
SECTION 90-11HB-5
STR. NO. 090-8512

NAME PLATE
See Std. 515001

Note: All retaining wall stations/offsets are off J-3 Baseline.

GENERAL NOTES

1. Reinforcement Bars shall conform to the requirements of AASHTO M-31M, or M-322M Grade 400.
2. See Special Provisions for installation and testing of Permanent Ground Anchors.
3. Shear Studs shall be 19mm diameter x 200mm granular or Solid flux filled headed studs automatically end welded to the front flange in field.
4. The geocomposite wall drain shall be constructed according to section 591 of the Standard Specifications. The contractor shall insure that the bottom, sides and the top edges are protected from soil entering or sealing the drain while placing the pervious fabric side of the drain toward the soil. Geocomposite wall drain shall be installed in stages as the excavation proceeds downward. Splicing should be minimized, following proper splice practices to insure no long term soil contamination.
5. All dimensions are in millimeters (mm) except as noted.
6. All Construction joints shall be bonded.

TOTAL BILL OF MATERIAL

Item	Unit	Quantity
Untreated Timber Lagging	m^2	633
Concrete Structures	m^3	515.9
Reinforcement Bars, Epoxy Coated	kg	51550
Drilling & Setting Soldier Piles	m^3	241.7
Permanent Ground Anchors	Each	98
Furnishing Soldier Piles (Built up section)	m	573.0
Furnishing Soldier Piles (W section)	m	131.3
Geocomposite Wall Drain	m^2	364
French Drains	m^3	16
Name Plates	Each	1
Stud Shear Connectors	Each	2686
Structure Excavation	m^3	216
Form Liner Grid and Fin Surface	m^2	585.3
Porous Granular Embankment	m^3	1858

LIN ENGINEERING,LTD.
210 W. Chestnut, Chatham, Illinois 62629
(217) 483-4166, FAX (217) 483-4706
Designed By: MTH | Checked By: KRG | Drawn By: JMD
Date: 05/02 | File: rp0402-5b0908512.dgn

REVISIONS NAME	

ILLINOIS DEPARTMENT OF TRANSPORTATION

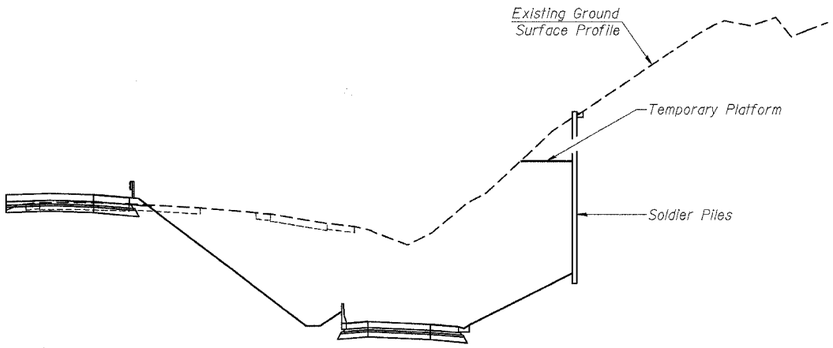
GENERAL PLAN AND ELEVATION
RETAINING WALL 81
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP J-3 STATION 10+037 TO 10+213
S.N. 090-8512

6320W

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	1366	604
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 3
21 SHEETS

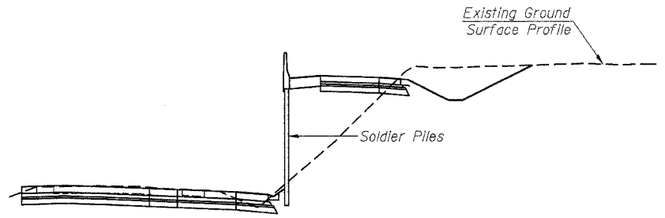
★90-11HB-5



CROSS-SECTION

SUGGESTED METHOD OF CONSTRUCTION FOR CUT SITUATION

1. Install three successive Soldier Piles in permanent locations in the shallow area starting at the south end (Panel T). See the Sequence of Construction.
2. Place timber lagging to an appropriate elevation for creating a temporary platform as shown above. The progressive end of the platform terminates with an embankment cone of the non-excavated area.
3. Use this platform to install the next two soldier piles & lagging.
4. Install first level of Permanent Ground Anchors where necessary as the platform construction progresses.
5. Repeat the above procedure to install all the soldier piles and until the temporary platform is continuous from one end to the other.
6. The remaining operations shall follow the Standard Construction Procedures for tieback walls for top down construction.



CROSS-SECTION

SUGGESTED METHOD OF CONSTRUCTION FOR FILL SITUATION

1. Install the soldier piles.
2. Backfill behind the wall and place lagging as required concurrently up to approximately midheight between the bottom level anchors and the top level anchors.
3. Install the bottom level of anchors.
4. Stress the bottom level ground anchors to a load that will not result in significant inward movement. This load may be less than the design lock off load.
5. Backfill behind the wall and place lagging as required concurrently up to a minimum of 1 m above the level of the top anchors.
6. Restress the bottom level anchors to the designed lock off load.
7. Install and temporarily stress the top level ground anchors.
8. Backfill and place lagging up to finished grade.
9. Restress the top level ground anchor to the designed lock-off load.

SEQUENCE OF CONSTRUCTION

1. Drill hole for soldier pile.
2. Remove loose material and excess water from hole and Set Soldier Pile in hole, using temporary bracing to maintain correct elevation, clearances, and position during and after placement of concrete.
3. Place Encasement Concrete around soldier pile to the level indicated in table on sheet 4 of 21 Place Controlled Low Strength Material (CLSM) concrete to the ground surface.
4. After concrete has cured, excavate in front of wall in stages removing only the soil and CSLM concrete necessary to place each timber lagging and the Geocomposite Wall Drain.
5. After lagging and Geocomposite Wall Drain placement has reached the elevations shown in Table on Sheet 4 of 21, install, test, and lock off Permanent Ground Anchor (see special provisions).
6. Continue the excavation for construction of French Drains and line trench with Geotechnical Filter Fabric.
7. Place the 100 ϕ perforated corrugated polyethylene (PE) tubing and connect the vertical geocomposite wall drain to the longitudinal French Drain and backfill as shown on the plans.
8. Construct wall panels.

Notes: The Contractor shall submit a detailed Construction Procedure outlining the whole Sequence of Construction along with the computations to the Engineer for review and acceptance. The submitted documents shall be sealed by a Structual Engineer registered in State of Illinois.

REVISIONS
NAME

LIN ENGINEERING,LTD.
210 W. Chestnut, Chatham, Illinois 62629
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Designed By MTH | Checked By KRG | Drawn By JMD
Date 09/02 | Files rp0403-5a090852E.dgn

ILLINOIS DEPARTMENT OF TRANSPORTATION
SEQUENCE OF CONSTRUCTION
RETAINING WALL 81
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP J-3 STATION 10+037 TO 10+213
S.N. 090-8512

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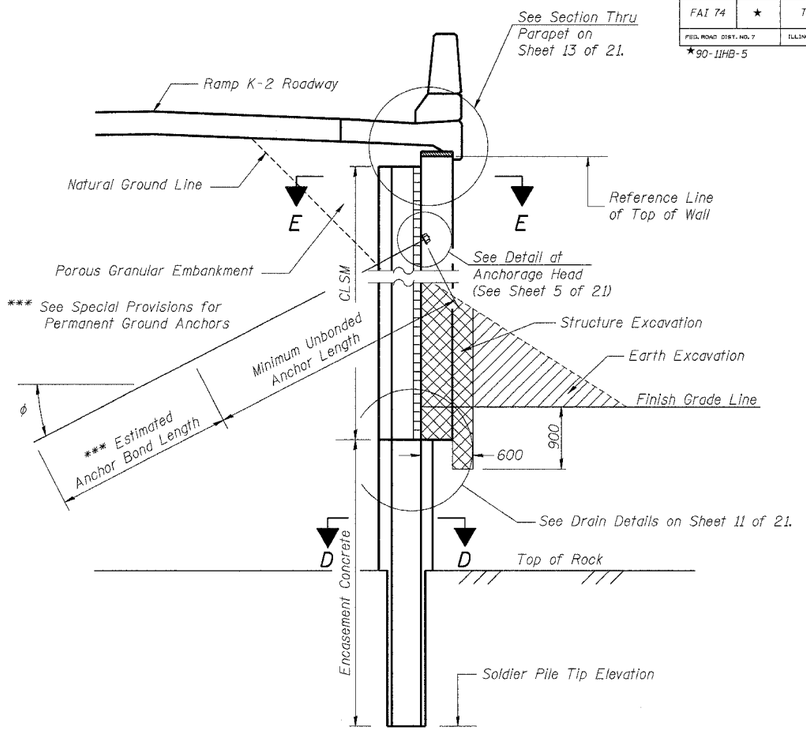
68201

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	1366	605
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

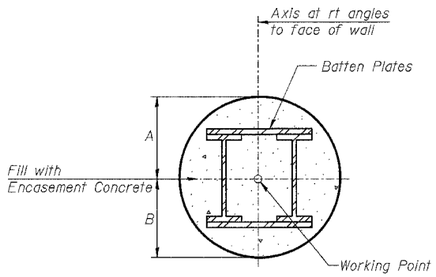
★90-11HB-5

SHEET NO. 4
21 SHEETS

Panel	Soldier Pile Designation	Station	Offset to Working Point	Pile Size	Top of Soldier Pile Elevation	Bottom of Soldier Pile Elevation	Top of Encasement Concrete Elevation	Estimated Length of Soldier Pile (m)	Diameter of Shaft Excavation (m)	Number of Shear Connectors
A	A1	10+212.93	3.523	W310x158	149.365	145.965	148.056	3.400	0.610	6
	A2	10+210.69	3.500	W310x158	150.535	145.935	148.056	4.600	0.610	10
	A3	10+208.47	3.513	W310x158	151.705	145.905	148.135	5.800	0.610	14
	A4	10+206.21	3.512	W310x158	152.875	145.875	148.213	7.000	0.610	18
B	B1	10+204.52	3.482	2-W250x80	153.715	145.815	148.292	7.900	0.914	40
	B2	10+202.08	3.466	2-W250x80	154.935	145.835	148.348	9.100	0.914	48
	B3	10+199.65	3.515	2-W250x80	156.349	145.749	148.430	10.600	0.914	56
C	C1	10+197.97	3.610	2-W250x80	156.351	145.751	148.512	10.600	0.914	56
	C2	10+195.80	3.732	2-W250x80	156.354	145.654	148.568	10.700	0.914	56
	C3	10+193.64	3.854	2-W250x80	156.356	145.656	148.633	10.700	0.914	56
	C4	10+191.47	3.977	2-W250x80	156.359	145.659	148.697	10.700	0.914	56
D	D1	10+189.78	4.045	2-W250x80	156.363	145.663	148.762	10.700	0.914	56
	D2	10+187.34	4.057	2-W250x80	156.371	145.571	148.818	10.800	0.914	56
	D3	10+184.90	4.068	2-W250x80	156.379	145.579	148.899	10.800	0.914	56
	D4	10+182.46	4.079	2-W250x80	156.387	145.487	148.981	10.900	0.914	56
E	E1	10+180.78	4.087	2-W250x80	156.390	145.490	149.062	10.900	0.914	52
	E2	10+178.34	4.099	2-W250x80	156.390	145.490	149.113	10.900	0.914	52
	E3	10+175.90	4.110	2-W250x80	156.390	145.390	149.181	11.000	0.914	52
	E4	10+173.46	4.121	2-W250x80	156.390	145.390	149.249	11.000	0.914	52
F	F1	10+171.78	4.125	2-W250x80	156.386	145.386	149.317	11.000	0.914	52
	F2	10+169.34	4.136	2-W250x80	156.375	145.375	149.361	11.000	0.914	52
	F3	10+166.90	4.147	2-W250x80	156.365	145.365	149.424	11.000	0.914	52
	F4	10+164.46	4.159	2-W250x49	156.354	145.354	149.486	11.000	0.762	52
G	G1	10+162.78	4.167	2-W250x49	156.343	145.343	149.549	11.000	0.762	52
	G2	10+160.34	4.178	2-W250x49	156.321	145.421	149.588	10.900	0.762	48
	G3	10+157.90	4.190	2-W250x49	156.299	145.399	149.639	10.900	0.762	48
	G4	10+155.46	4.201	2-W250x49	156.277	145.377	149.691	10.900	0.762	48
H	H1	10+153.78	4.209	2-W250x49	156.260	145.360	149.742	10.900	0.762	48
	H2	10+151.34	4.220	2-W250x49	156.230	145.430	149.775	10.800	0.762	48
	H3	10+148.90	4.232	2-W250x49	156.200	145.400	149.818	10.800	0.762	48
	H4	10+146.46	4.243	2-W250x49	156.170	145.370	149.862	10.800	0.762	48
I	I1	10+144.78	4.251	2-W250x49	156.144	145.444	149.905	10.700	0.762	48
	I2	10+142.34	4.262	2-W250x49	156.098	145.498	149.931	10.600	0.762	48
	I3	10+139.90	4.274	2-W250x49	156.052	145.452	149.964	10.600	0.762	44
	I4	10+137.46	4.285	2-W250x49	156.006	145.506	149.996	10.500	0.762	44
J	J1	10+135.78	4.293	2-W250x49	155.967	145.567	150.029	10.400	0.762	44
	J2	10+133.34	4.304	2-W250x49	155.899	145.599	150.048	10.300	0.762	44
	J3	10+130.90	4.316	2-W250x49	155.831	145.631	150.073	10.200	0.762	44
	J4	10+128.46	4.327	2-W250x49	155.763	145.663	150.073	10.100	0.762	44
K	K1	10+126.78	4.335	2-W250x49	155.713	145.713	150.122	10.000	0.762	44
	K2	10+124.34	4.346	2-W250x49	155.634	145.734	150.136	9.900	0.762	40
	K3	10+121.90	4.358	2-W250x49	155.556	145.856	150.152	9.700	0.762	40
	K4	10+119.46	4.369	2-W250x49	155.477	145.877	150.168	9.600	0.762	40
L	L1	10+117.78	4.378	2-W250x49	155.420	145.920	150.184	9.500	0.762	40
	L2	10+115.34	4.392	2-W250x49	155.334	145.934	150.194	9.400	0.762	40
	L3	10+112.90	4.406	2-W250x49	155.247	145.947	150.205	9.300	0.762	40
	L4	10+110.46	4.420	2-W250x49	155.161	145.961	150.215	9.200	0.762	36
M	M1	10+108.79	4.433	2-W250x80	155.097	145.597	150.226	9.500	0.914	36
	M2	10+106.35	4.497	2-W250x80	155.002	145.102	150.251	9.900	0.914	36
	M3	10+103.91	4.548	2-W250x80	154.907	144.907	150.310	10.000	0.914	36
	M4	10+101.47	4.598	2-W250x80	154.812	144.712	150.370	10.100	0.914	36
N	N1	10+099.79	4.628	2-W250x80	154.746	144.546	150.429	10.200	0.914	32
	N2	10+097.35	4.678	2-W250x80	154.649	144.349	150.475	10.300	0.914	32
	N3	10+094.91	4.728	2-W250x49	154.551	144.051	150.548	10.500	0.762	32
	N4	10+092.47	4.778	2-W250x49	154.453	143.853	150.622	10.600	0.762	32
O	O1	10+090.79	4.813	2-W250x49	154.386	143.686	150.695	10.700	0.762	28
	O2	10+088.35	4.864	2-W250x49	154.289	143.489	150.742	10.800	0.762	28
	O3	10+085.91	4.914	2-W250x49	154.191	143.191	150.807	11.000	0.762	28
	O4	10+083.47	4.965	2-W250x49	154.093	142.993	150.873	11.100	0.762	28
P	P1	10+081.80	5.031	W310x158	154.030	146.330	150.938	7.700	0.610	12
	P2	10+079.36	5.090	W310x158	153.943	146.243	150.971	7.700	0.610	12
	P3	10+076.92	5.149	W310x158	153.856	146.256	151.004	7.600	0.610	12
	P4	10+074.48	5.208	W310x158	153.770	146.270	151.036	7.500	0.610	12
Q	Q1	10+072.80	5.259	W310x158	153.709	146.309	151.069	7.400	0.610	12
	Q2	10+070.36	5.345	W310x158	153.620	146.520	151.095	7.100	0.610	10
	Q3	10+067.93	5.432	W310x158	153.530	146.830	151.138	6.700	0.610	10
	Q4	10+065.49	5.519	W310x158	153.441	147.041	151.182	6.400	0.610	10
R	R1	10+063.81	5.582	W310x158	153.376	147.176	151.225	6.200	0.610	10
	R2	10+061.38	5.699	W310x158	153.279	147.479	151.259	5.800	0.610	10
	R3	10+058.94	5.817	W310x158	153.181	147.681	151.313	5.500	0.610	8
	R4	10+056.50	5.935	W310x158	153.083	147.783	151.367	5.300	0.610	8
S	S1	10+054.83	5.992	W250x49	153.016	148.116	151.421	4.900	0.610	8
	S2	10+052.39	6.137	W250x49	152.919	148.419	151.462	4.500	0.610	8
	S3	10+049.95	6.282	W250x49	152.821	148.621	151.527	4.200	0.610	6
	S4	10+047.52	6.427	W250x49	152.723	148.923	151.593	3.800	0.610	6
T	T1	10+045.85	6.537	W250x49	152.657	149.057	151.658	3.600	0.610	6
	T2	10+043.41	6.712	W250x49	152.562	149.362	151.705	3.200	0.610	6
	T3	10+040.98	6.887	W250x49	152.467	149.567	151.778	2.900	0.610	6
	T4	10+038.54	7.062	W250x49	152.372	149.872	151.852	2.500	0.610	6



TYPICAL CROSS SECTION



SECTION D-D

Notes:

Hatched area indicates "Earth Excavation." Quantites are included with roadway plans. There shall be no excavation behind the wall.

The Timber Lagging shall be installed as the "Structure Excavation" proceeds down the wall.

If additional length is required, that length shall be added to the bottom of the pile and shall be paid for at the unit price bid for Furnishing Soldier Piles, with the cost of splicing being included in the unit price and the method of splicing approved by the Engineer.

Cross hatched area indicates Structure Excavation.

Soldier pile numbering increases from north to south.

For Section E-E, see sheet 11 of 21.

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210 W. Chestnut
(217) 483-1166
Chatham, Illinois 62629
FAX (217) 483-8706

Designed By: MTH | Checked By: KRG | Drawn By: JMD
Date: 09/02 | File: rp0404-5b0908512.dgn

REVISIONS
NAME

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOLDIER PILES
RETAINING WALL 81
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP J-3 STATION 10+037 TO 10+213
STRUCTURE NUMBER 090-8512

...\wall 81\rp0404-5b0908512.dgn 12/3/2004 7:51:39 PM

68201

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	1366	606
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

★90-11HB-5

SHEET NO. 5
21 SHEETS

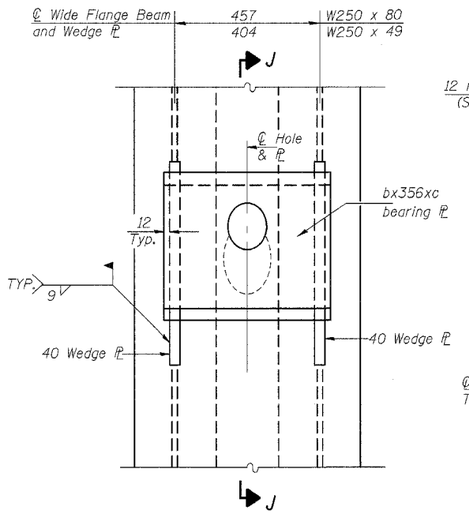
PERMANENT GROUND ANCHOR DATA

Soldier Pile Designation	Anchor Number	Anchor Head Elevation	Design Load (kN)	Inclination* Angle	** # of Prestressing Strands	Minimum Anchor Unbonded Length (m)	Estimated Anchor Bond *** Length (m)
B1	B1-1	152.550	296.8	45	3	4.5	5.5
	B1-2	150.450	244.5	45	3	4.5	3.75
B2	B2-1	153.770	432.3	45	3	4.5	5.5
	B2-2	151.100	407.1	45	3	4.5	3.75
B3	B3-1	154.930	577.9	45	4	4.5	5.5
	B3-2	151.720	551.3	45	4	4.5	3.75
C1	C1-1	154.930	577.9	45	4	6.5	4.5
	C1-2	151.720	551.3	45	4	4.0	4.0
C2	C2-1	154.930	446.1	45	3	6.5	4.5
	C2-2	151.780	421.3	45	3	4.0	4.0
C3	C3-1	154.930	441.7	45	3	6.5	4.5
	C3-2	151.810	415.1	45	3	4.0	4.0
C4	C4-1	154.930	466.3	45	3	6.5	4.5
	C4-2	151.860	434.4	45	3	4.0	4.0
D1	D1-1	154.930	466.3	45	3	6.5	4.5
	D1-2	151.860	434.4	45	3	5.0	3.5
D2	D2-1	154.930	543.3	45	4	6.5	4.5
	D2-2	151.910	501.7	45	4	5.0	3.5
D3	D3-1	154.980	529.1	45	4	6.5	4.5
	D3-2	151.980	494.5	45	4	5.0	3.5
D4	D4-1	154.890	447.8	45	3	6.5	4.5
	D4-2	151.990	399.6	45	3	5.0	3.5
E1	E1-1	154.890	447.8	45	3	6.0	4.5
	E1-2	151.990	399.6	45	3	4.0	3.75
E2	E2-1	154.980	511.7	45	4	6.0	4.5
	E2-2	152.080	469.6	45	4	4.0	3.75
E3	E3-1	154.940	511.3	45	4	6.0	4.5
	E3-2	152.090	459.0	45	4	4.0	3.75
E4	E4-1	154.940	424.5	45	3	6.0	4.5
	E4-2	152.140	377.3	45	3	4.0	3.75
F1	F1-1	154.940	424.5	45	3	6.0	5.0
	F1-2	152.140	377.3	45	3	5.0	3.5
F2	F2-1	154.960	493.5	45	4	6.0	5.0
	F2-2	152.190	438.3	45	4	5.0	3.5
F3	F3-1	154.990	484.5	45	4	6.0	5.0
	F3-2	152.240	433.3	45	4	5.0	3.5
F4	F4-1	154.990	403.3	45	3	6.0	5.0
	F4-2	152.280	357.8	45	3	5.0	3.5
G1	G1-1	154.990	403.3	45	3	6.5	5.5
	G1-2	152.280	357.8	45	3	6.0	3.0
G2	G2-1	154.921	466.4	45	3	6.5	5.5
	G2-2	152.281	407.7	45	3	6.0	3.0
G3	G3-1	154.909	459.5	45	3	6.5	5.5
	G3-2	152.299	400.4	45	3	6.0	3.0
G4	G4-1	154.880	381.3	45	3	6.5	5.5
	G4-2	152.320	328.7	45	3	6.0	3.0
H1	H1-1	154.880	279.2	15	3	7.0	6.5
	H1-2	152.320	240.6	15	3	3.0	5.75
H2	H2-1	154.860	323.3	15	3	7.0	6.5
	H2-2	152.340	278.1	15	3	3.0	5.75
H3	H3-1	154.820	320.1	15	3	7.0	6.5
	H3-2	152.340	271.9	15	3	3.0	5.75
H4	H4-1	154.800	264.2	15	3	7.0	6.5
	H4-2	152.360	223.9	15	3	3.0	5.75
I1	I1-1	154.800	264.2	15	3	6.0	6.0
	I1-2	152.360	223.9	15	3	3.0	5.25
I2	I2-1	154.788	303.0	15	3	6.0	6.0
	I2-2	152.378	259.4	15	3	3.0	5.25
I3	I3-1	154.752	298.2	15	3	6.0	6.0
	I3-2	152.372	254.4	15	3	3.0	5.25
I4	I4-1	154.700	246.3	15	3	6.0	6.0
	I4-2	152.370	208.3	15	3	3.0	5.25
J1	J1-1	154.700	246.3	15	3	7.0	6.0
	J1-2	152.370	208.3	15	3	3.0	4.75
J2	J2-1	154.589	287.0	15	3	7.0	6.0
	J2-2	152.329	236.7	15	3	3.0	4.75
J3	J3-1	154.521	282.1	15	3	7.0	6.0
	J3-2	152.311	229.6	15	3	3.0	4.75
J4	J4-1	154.430	298.2	15	3	7.0	6.0
	J4-2	152.280	180.2	15	3	3.0	4.75
K1	K1-1	154.430	298.2	15	3	7.0	3.5
	K1-2	152.280	180.2	15	3	3.0	3.25
K2	K2-1	154.434	261.2	15	3	7.0	3.5
	K2-2	152.294	217.5	15	3	3.0	3.25
K3	K3-1	154.366	256.1	15	3	7.0	3.5
	K3-2	152.266	211.7	15	3	3.0	3.25
K4	K4-1	154.250	211.8	15	3	7.0	3.5
	K4-2	152.220	170.4	15	3	3.0	3.25

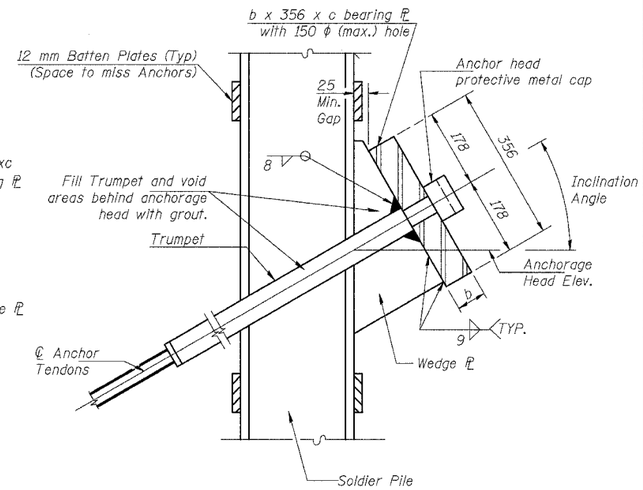
* Measured from horizontal plane.

** The prestressing steel tendon shall consist of the specified number of seven-wire strands (AASHTO M203M Grade 1860 No. 15) An alternate system using an equivalent High Strength Steel bar is allowed.

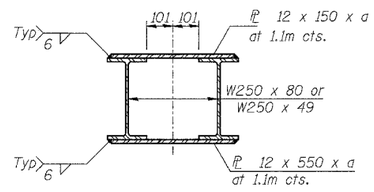
***Estimated length only. The contractor shall determine the bonded length necessary to satisfy the test load requirements. The Anchor unbonded length may need to be increased to put the Anchor bonded region in a suitable soil.



ELEVATION



SECTION J - J



SOLDIER PILE DETAIL

Cut plate in field if it interferes with rock anchor.

Pile Size	a	b	c
W250 x 49	590	80	454
W250 x 80	700	100	507

ANCHOR HEAD DETAILS

PERMANENT GROUND ANCHOR DATA

Soldier Pile Designation	Anchor Number	Anchor Head Elevation	Design Load (kN)	Inclination* Angle	**# of Prestressing Strands	Minimum Anchor Unbonded Length (m)	Estimated Anchor Bond *** Length (m)
L1	L1-1	154.250	211.8	15	3	7.0	3.5
	L1-2	152.220	170.9	15	3	3.0	3.0
L2	L2-1	154.143	244.1	15	3	7.0	3.5
	L2-2	152.173	194.3	15	3	3.0	3.0
L3	L3-1	154.057	239.8	15	3	7.0	3.5
	L3-2	152.137	187.9	15	3	3.0	3.0
L4	L4-1	153.950	252.2	15	3	7.0	3.5
	L4-2	152.090	146.9	15	3	3.0	3.0
M1	M1-1	153.830	201.3	15	3	6.0	3.0
M2	M2-1	153.602	239.5	15	3	6.0	3.0
M3	M3-1	153.608	228.1	15	3	6.0	3.0
M4	M4-1	153.480	188.5	15	3	6.0	3.0
N1	N1-1	153.480	188.5	15	3	3.0	3.0
N2	N2-1	153.349	227.0	15	3	3.0	3.0
N3	N3-1	153.351	215.3	15	3	3.0	3.0
N4	N4-1	153.220	178.5	15	3	3.0	3.0
O1	O1-1	153.220	178.5	15	3	3.0	3.0
O2	O2-1	153.189	200.1	15	3	3.0	3.0
O3	O3-1	153.091	198.0	15	3	3.0	3.0
O4	O4-1	152.960	166.4	15	3	3.0	3.0

Notes:

Anchorage Head, consisting of 2 wedge plates, and a bearing plate shall be shop fabricated.

Any modifications to the details for the anchor bearing plate and wedge plates required to accomodate the anchor shall be submitted by the Contractor for the Engineer's approval. Cost included with "Permanent Ground Anchors".

Cost of furnishing, fabricating, & attaching all structural steel is included with "Permanent Ground Anchors".

Soldier pile numbering increases from north to south.

Anchor number increases from top to bottom.

Wall reinforcement may be moved to avoid conflict with the anchor head. Maintain 1" clearance between reinforcement and anchor head.

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20 W. Chestnut, Chatham, Illinois 62629
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Designed By: MTH | Checked By: KRG | Drawn By: JMD
Date: 09/02 | File: rp0405-5b090812.dgn

REVISIONS NAME

ILLINOIS DEPARTMENT OF TRANSPORTATION

GROUND ANCHOR DETAILS
RETAINING WALL 81
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP J-3 STATION 10+037 TO 10+213
STRUCTURE NUMBER 090-8512

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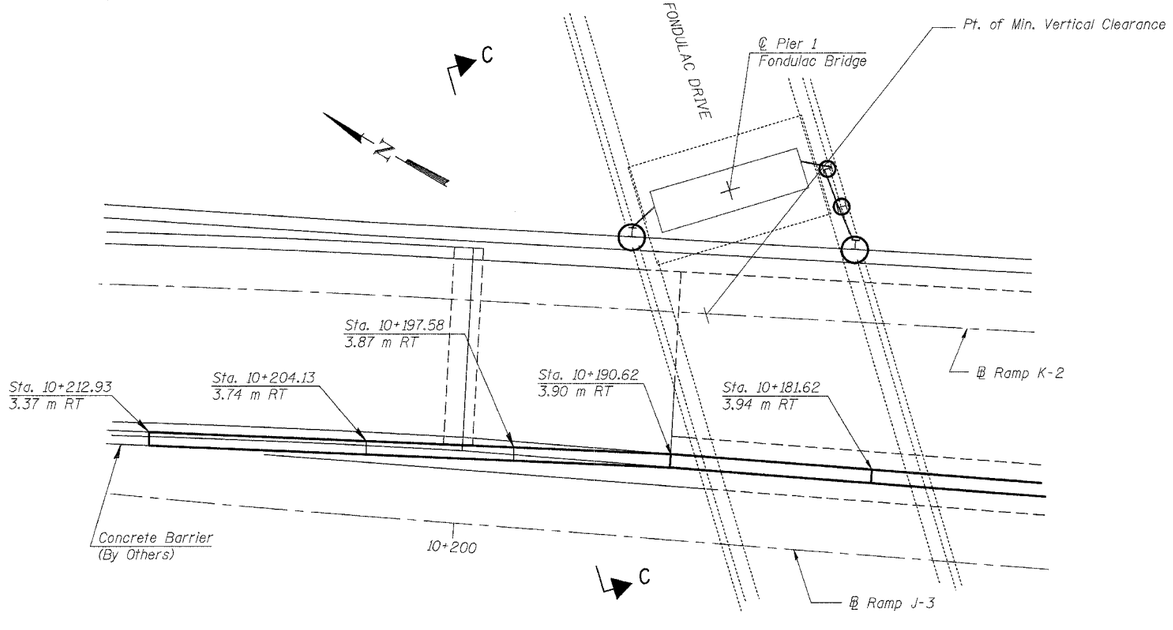
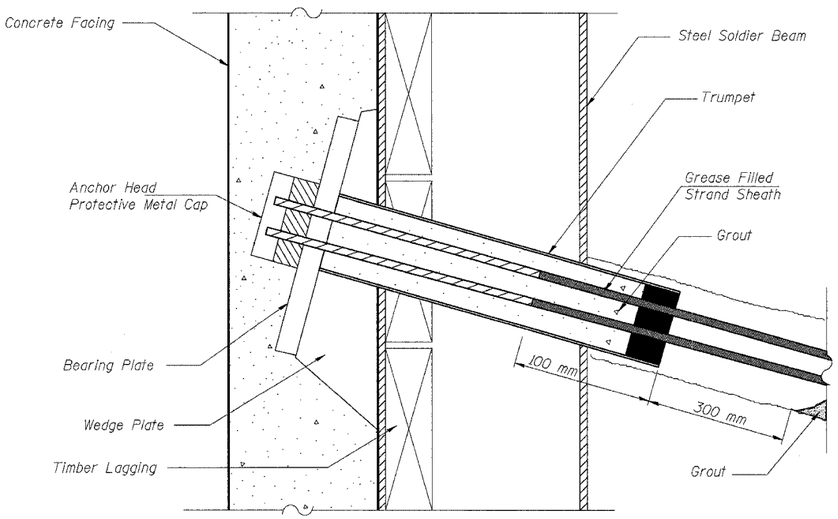
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	1366	607
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 6
21 SHEETS

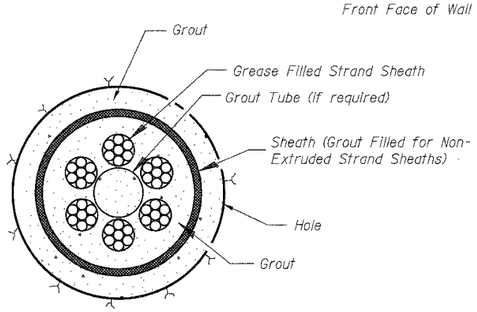
★90-11HB-5



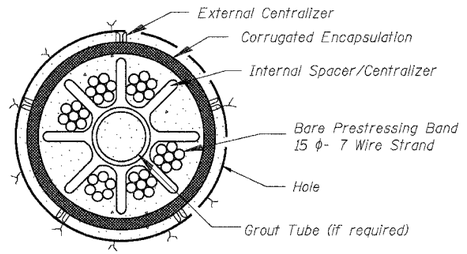
PLAN



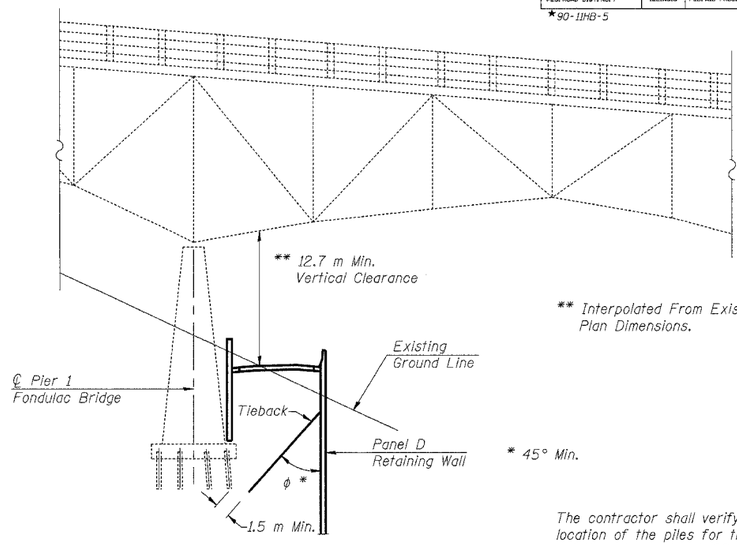
DETAIL AT ANCHORAGE HEAD



SECTION A-A

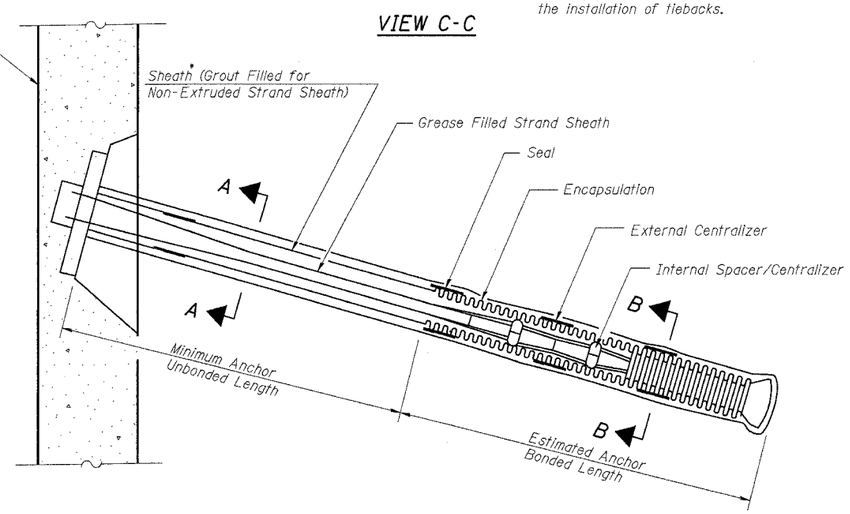


SECTION B-B



VIEW C-C

The contractor shall verify the location of the piles for the existing pier and wall 82 prior to the installation of tiebacks.



DETAIL OF CORROSION PROTECTION & TENDON DETAILS

LIN ENGINEERING, LTD.
290 N. Chestnut, Chatham, Illinois 62629
(217) 483-4168 FAX (217) 483-4706
Designed By: MTH | Checked By: KRG | Drawn By: JMD
Date: 09/02 | File: rp0406-5b090812.dgn

REVISIONS
NAME

ILLINOIS DEPARTMENT OF TRANSPORTATION

GROUND ANCHOR DETAIL
RETAINING WALL 81
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP J-3 STATION 10+037 TO 10+213
S.N. 090-8512

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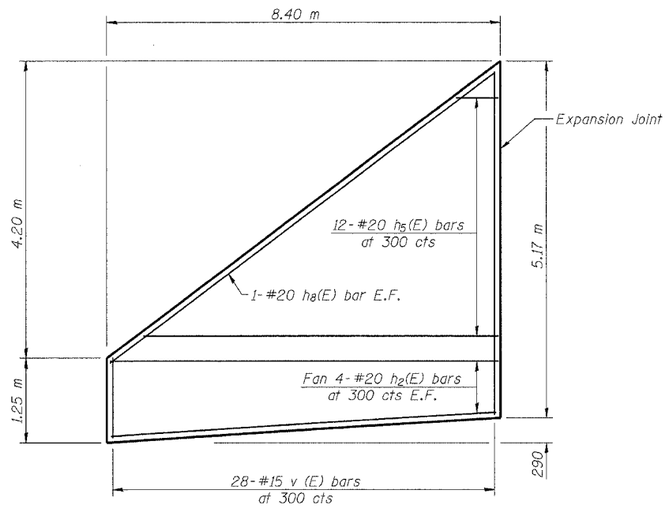
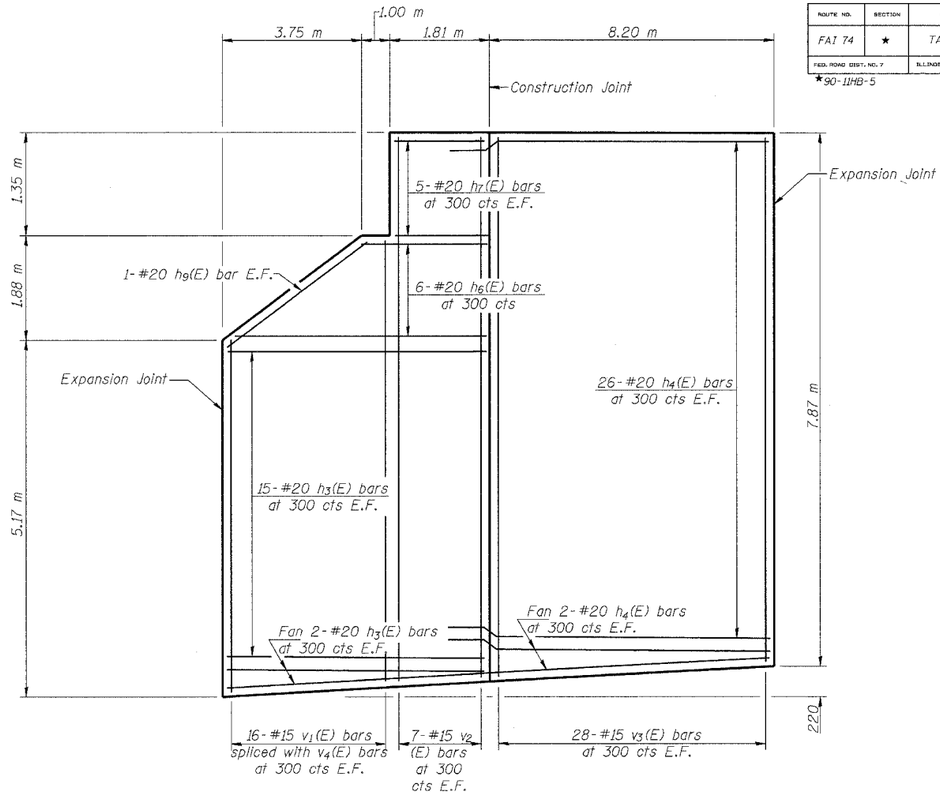
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	1366	608
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

★90-11HB-5

SHEET NO. 7
21 SHEETS



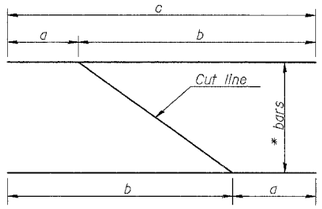
ELEVATION OF PANEL A
(Looking From Front of Wall)



BILL OF MATERIAL

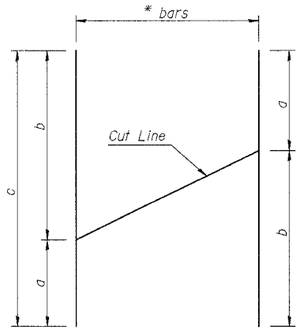
Bar	No.	Size	Length (m)	Shape
$h_2(E)$	8	#20	8.24	——
$h_3(E)$	34	#20	6.48	——
$h_4(E)$	56	#20	8.94	——
$h_5(E)$	12	#20	8.24	——
$h_6(E)$	6	#20	9.21	——
$h_7(E)$	10	#20	1.71	——
$h_8(E)$	2	#20	9.14	——
$h_9(E)$	2	#20	3.89	——
v(E)	28	#15	6.22	——
$v_1(E)$	16	#15	3.24	——
$v_2(E)$	14	#15	8.00	——
$v_3(E)$	56	#15	7.80	——
$v_4(E)$	32	#15	5.00	——
Concrete Structures			m^3	51.7
Reinforcement Bars, Epoxy Coated			kg	3790

Reinforcement Bars designated (E) shall be epoxy coated.
Bars indicated thus 1 x 2- #20 etc. indicates 1 line of bars with 2 lengths per line.
The horizontal bars shall be bent at the joints to account for the nonlinear wall alignment. Cost included in "Reinforcement Bars, Epoxy Coated."



BAR CUTTING DIAGRAM h
(Length in meters)

Bar	a	b	c	*
$h_5(E)$	0.77	7.47	8.24	12
$h_6(E)$	2.75	6.46	9.21	6

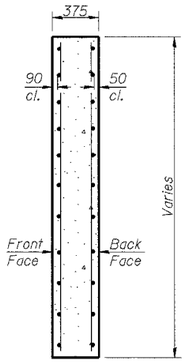


BAR CUTTING DIAGRAM v(E) BARS
(Length in meters)

Bar	a	b	c	*
v(E)	1.15	5.07	6.22	28
$v_1(E)$	0.84	2.40	3.24	16

ELEVATION OF PANELS B & C
(Looking From Front of Wall)

E.F. indicates each face.



SECTION THRU PANEL

MIN BAR LAP
#15 Bars= 640
#20 Bars= 790

Note: Order bars full length. Cut bars as shown & use remainder on the other face of wall.

REVISIONS
NAME

LIN ENGINEERING, LTD.
210 W. Chestnut, Chatham, Illinois 62629
(217) 483-4616 FAX (217) 483-4706
Designed By: MTH | Checked By: KRG | Drawn By: JMD
Date: 09/02 | Files: rp0407-5b0908512.dgn

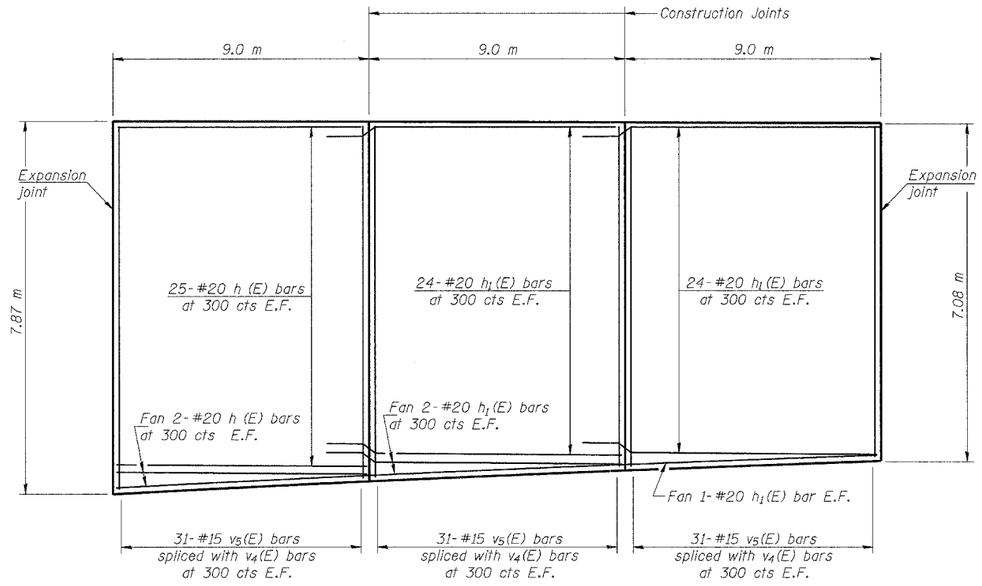
ILLINOIS DEPARTMENT OF TRANSPORTATION

CONCRETE FACING RETAINING WALL 81
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP J-3 STATION 10+037 TO 10+213
S.N. 090-8512

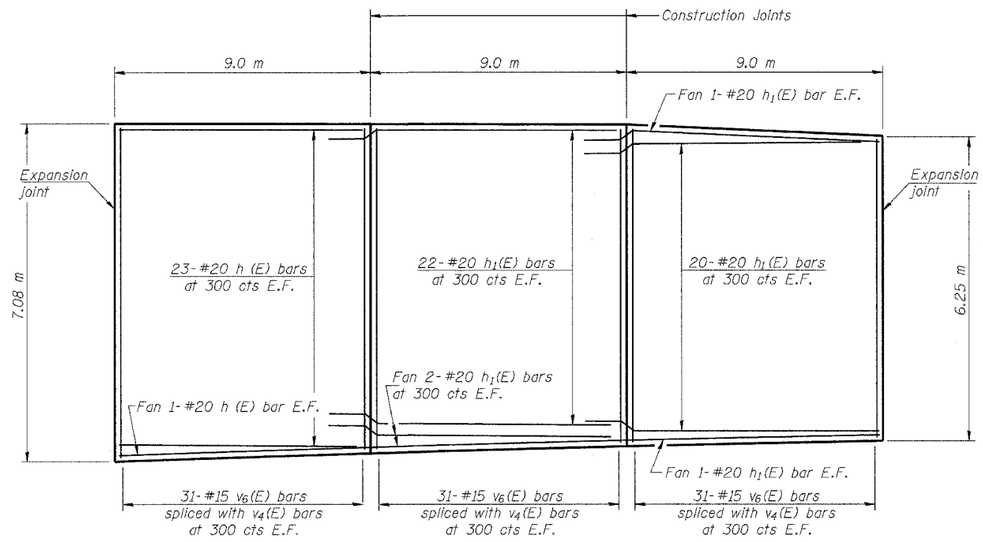
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	1316	609
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 8
21 SHEETS

★90-11HB-5



ELEVATION OF PANELS D TO F
(Looking From Front of Wall)

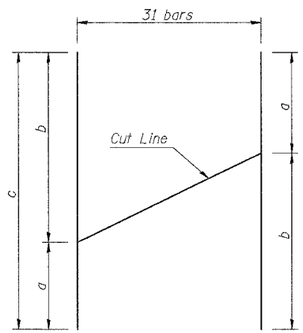


ELEVATION OF PANELS G TO I
(Looking From Front of Wall)

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
h(E)	102	#20	8.92	——
h_1(E)	194	#20	9.79	——
v_4(E)	372	#15	5.00	——
v_5(E)	93	#15	6.51	——
v_6(E)	93	#15	4.93	——
Concrete Structures		m^3		142.1
Reinforcement Bars, Epoxy Coated		kg		11210

Reinforcement Bars designated (E) shall be epoxy coated.
Bars indicated thus 1 x 2- #20 etc. indicates 1 line of bars with 2 lengths per line.
The horizontal bars shall be bent at the joints to account for the nonlinear wall alignment. Cost included in "Reinforcement Bars, Epoxy Coated."



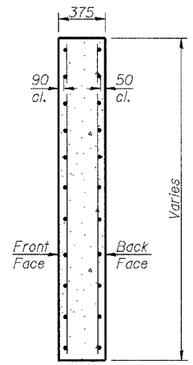
BAR CUTTING DIAGRAM v(E) BARS
(Length in meters)

Bar	a	b	c
v_5(E)	3.39	3.12	6.51
v_6(E)	2.60	2.33	4.93

Note: Order bars full length. Cut bars as shown & use remainder on the other face of wall.

E.F. indicates each face.

MIN BAR LAP
#15 Bars= 640
#20 Bars= 790



SECTION THRU PANEL

REVISIONS
NAME

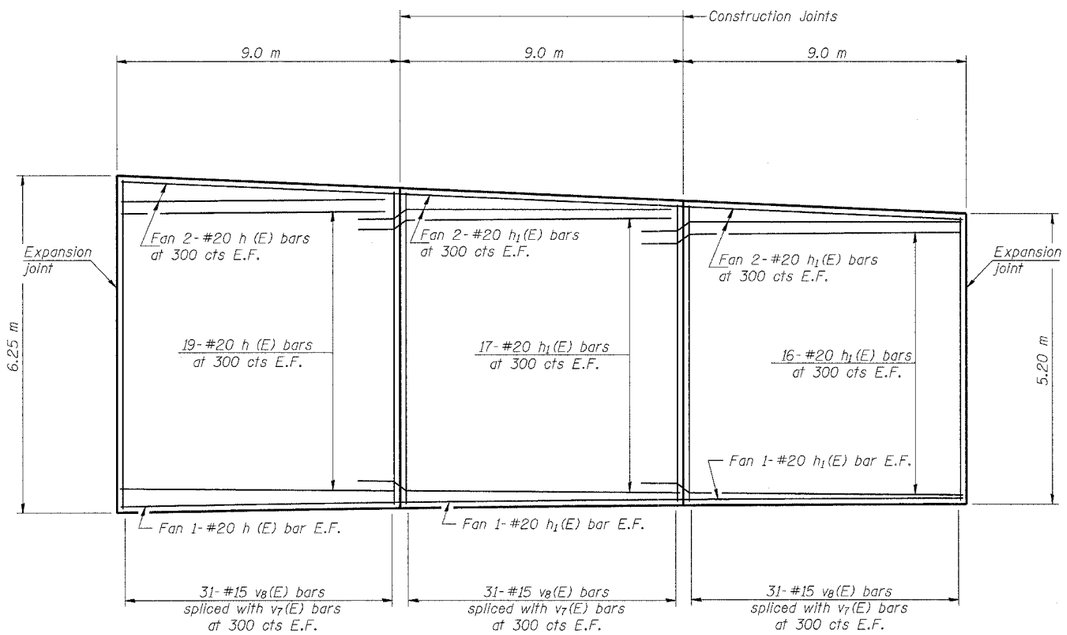
LIN ENGINEERING,LTD.
210 W. Chestnut, Crothers, Illinois 62629
(217) 483-4166 FAX (217) 483-4706
Designed By: MTH | Checked By: KRG | Drawn By: JMO
Date: 09/02 | File: rp0408-5b090812.dgn

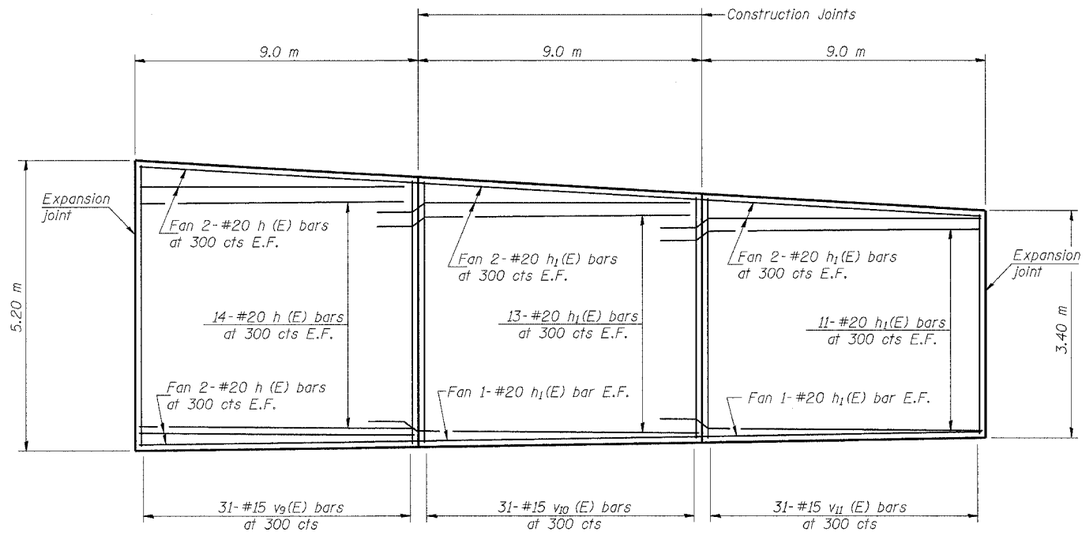
ILLINOIS DEPARTMENT OF TRANSPORTATION
CONCRETE FACING
RETAINING WALL 81
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP J-3 STATION 10+037 TO 10+213
S.N. 090-8512

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	136	610
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

★90-11HB-5

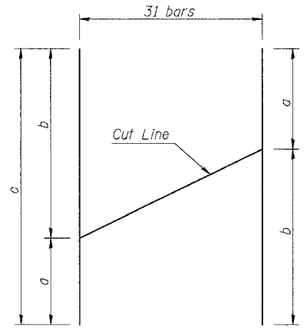
SHEET NO. 9
21 SHEETS





ELEVATION OF PANELS J TO L

(Looking From Front of Wall)



BAR CUTTING DIAGRAM v(E) BARS

(Length in meters)

Bar	a	b	c
$v_8(E)$	2.77	2.43	5.20
$v_9(E)$	5.08	4.51	9.59
$v_{10}(E)$	4.51	3.88	8.39
$v_{11}(E)$	3.88	3.28	7.16

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
h(E)	80	#20	8.92	———
$h_1(E)$	138	#20	9.79	———
$v_7(E)$	186	#15	4.00	———
$v_8(E)$	93	#15	5.20	———
$v_9(E)$	31	#15	9.59	———
$v_{10}(E)$	31	#15	8.39	———
$v_{11}(E)$	31	#15	7.16	———
Concrete Structures		m^3	100.9	
Reinforcement Bars, Epoxy Coated		kg	8020	

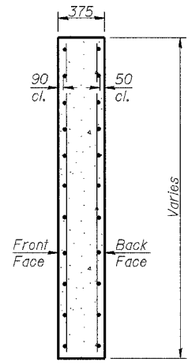
Reinforcement Bars designated (E) shall be epoxy coated.
Bars indicated thus 1 x 2- #20 etc. indicates 1 line of bars with 2 lengths per line.
The horizontal bars shall be bent at the joints to account for the nonlinear wall alignment. Cost included in "Reinforcement Bars, Epoxy Coated."

Note: Order bars full length. Cut bars as shown & use remainder on the other face of wall.

ELEVATION OF PANELS M TO O

(Looking From Front of Wall)

E.F. indicates each face.



SECTION THRU PANEL

MIN BAR LAP

#15 Bars= 640
#20 Bars= 790

REVISIONS NAME

LIN ENGINEERING,LTD.
210 W. Chestnut, Chatham, Illinois 62629
(217) 483-4188 FAX (217) 483-4706
Designed By MTH | Checked By KRS | Drawn By JMD
Date: 09/02 | Files: rp0409-5b0808512.dgn

ILLINOIS DEPARTMENT OF TRANSPORTATION

CONCRETE FACING RETAINING WALL 81
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP J-3 STATION 10+037 TO 10+213
S.N. 090-8512

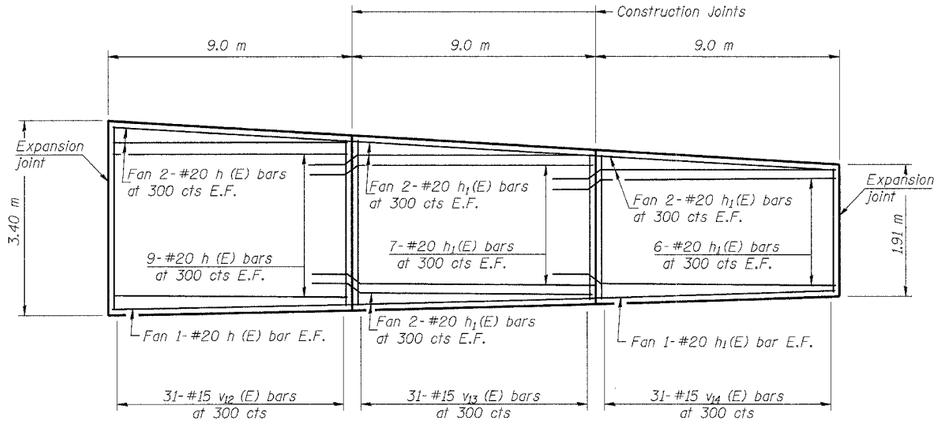
...\Wall 81\rp0409-5b0808512.dgn 12/9/2004 7:52:40 PM

65201

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	1866	611
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

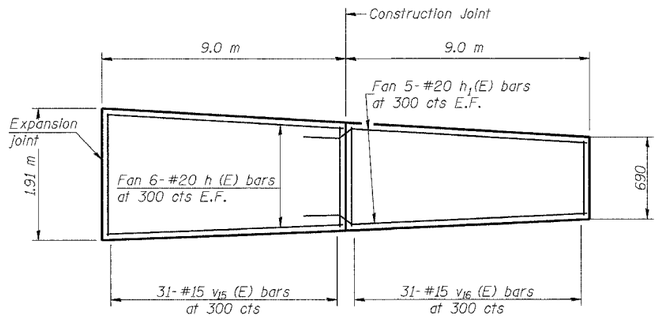
SHEET NO. 10
21 SHEETS

★90-11HB-5



ELEVATION OF PANELS P TO R

(Looking From Front of Wall)



ELEVATION OF PANELS S & T

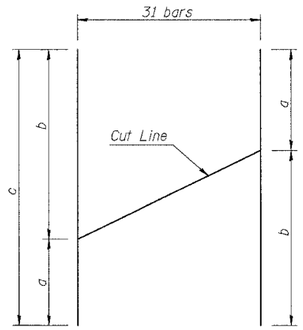
(Looking From Front of Wall)

E.F. indicates each face.

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
h(E)	36	#20	8.92	———
h_1(E)	50	#20	9.79	———
v_{12}(E)	31	#15	6.12	———
v_{13}(E)	31	#15	5.19	———
v_{14}(E)	31	#15	4.14	———
v_{15}(E)	31	#15	2.98	———
v_{16}(E)	31	#15	1.76	———
Concrete Structures		m^3		35.8
Reinforcement Bars, Epoxy Coated		kg		2900

Reinforcement Bars designated (E) shall be epoxy coated.
Bars indicated thus 1 x 2- #20 etc. indicates 1 line of bars with 2 lengths per line.
The horizontal bars shall be bent at the joints to account for the nonlinear wall alignment. Cost included in "Reinforcement Bars, Epoxy Coated."



BAR CUTTING DIAGRAM v(E) BARS

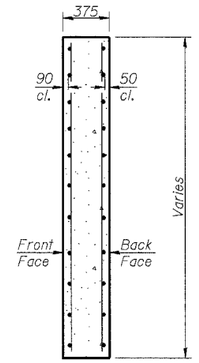
(Length in meters)

Bar	a	b	c
v_{12} (E)	3.28	2.84	6.12
v_{13} (E)	2.84	2.35	5.19
v_{14} (E)	2.35	1.79	4.14
v_{15} (E)	1.79	1.19	2.98
v_{16} (E)	1.19	0.57	1.76

Note: Order bars full length. Cut bars as shown & use remainder on the other face of wall.

MIN BAR LAP

#15 Bars= 640
#20 Bars= 790



SECTION THRU PANEL

LIN ENGINEERING,LTD.
20 W. Chestnut
Chatham, Illinois 62629
(217) 483-4168
FAX (217) 483-4706
Designed By MTH | Checked By KRG | Drawn By JMD
Date 08/02 | File: rp0410-58090812.dgn

REVISIONS NAME	

ILLINOIS DEPARTMENT OF TRANSPORTATION

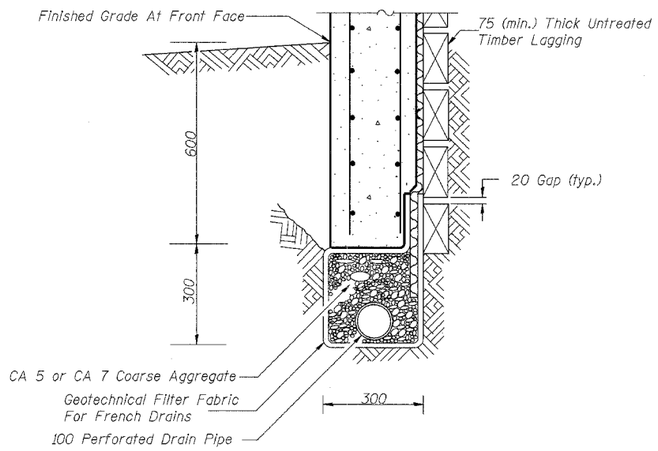
CONCRETE FACING
RETAINING WALL 81
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP J-3 STATION 10+037 TO 10+213
S.N. 090-8512

69201

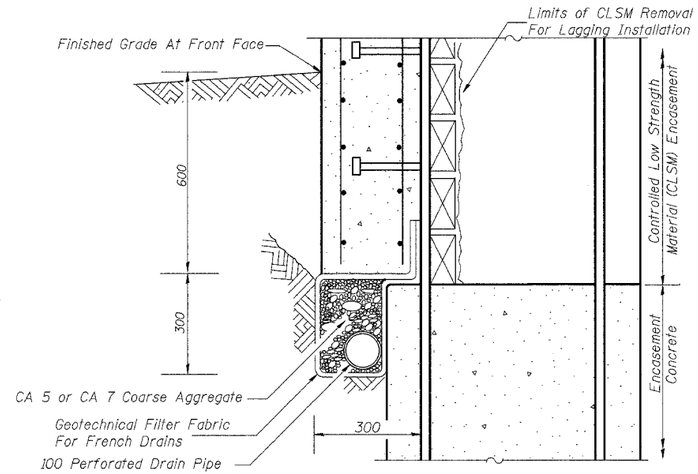
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	1366	612
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 11
21 SHEETS

★90-11HB-5



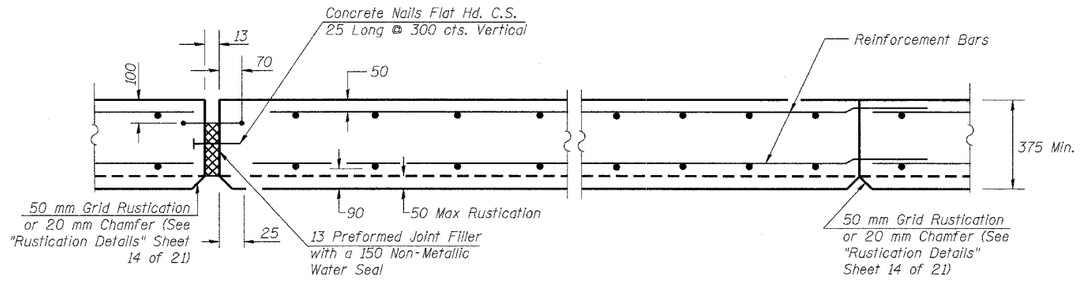
BETWEEN SOLDIER PILES



AT SOLDIER PILES

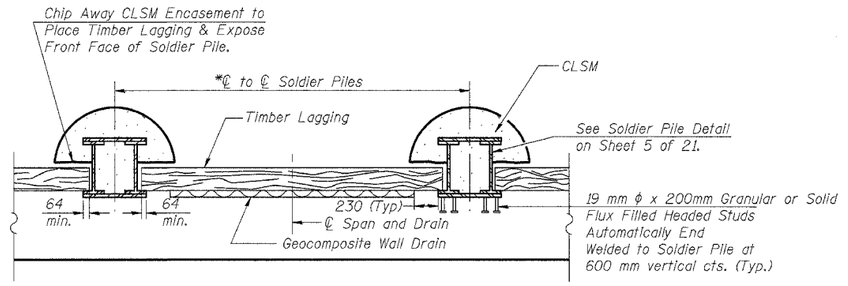
FRENCH DRAIN DETAIL

The French Drain installation shall follow Section 601 of the Standard Specifications except that the trench backfill shall consist of CA-5 or CA-7 coarse aggregate. The trench shall be lined with geotechnical fabric for French Drains and have a 100 mm diameter drain pipe located near the base of the excavation. The cost of the geotechnical fabric and drain pipe is included with the pay item French Drains.



EXPANSION JOINT

CONSTRUCTION JOINT



SECTION E-E

* The Contractor is Responsible for the Design and Performance of the Temporary Lagging Using No Less than a 75 mm Rough-Sawn Lagging Thickness and Minimum fb = 7 MPa.

LIN ENGINEERING,LTD.
210 N. Chestnut (217) 483-4158
Chatham, Illinois 62629 FAX (217) 483-4706
Designed By: MTH | Checked By: KRG | Drawn By: JMD
Date: 09/02 | File: rp0411-56090852.dgn

REVISIONS NAME

ILLINOIS DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS
RETAINING WALL 81
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP J-3 STATION 10+037 TO 10+213
S.N. 090-8512

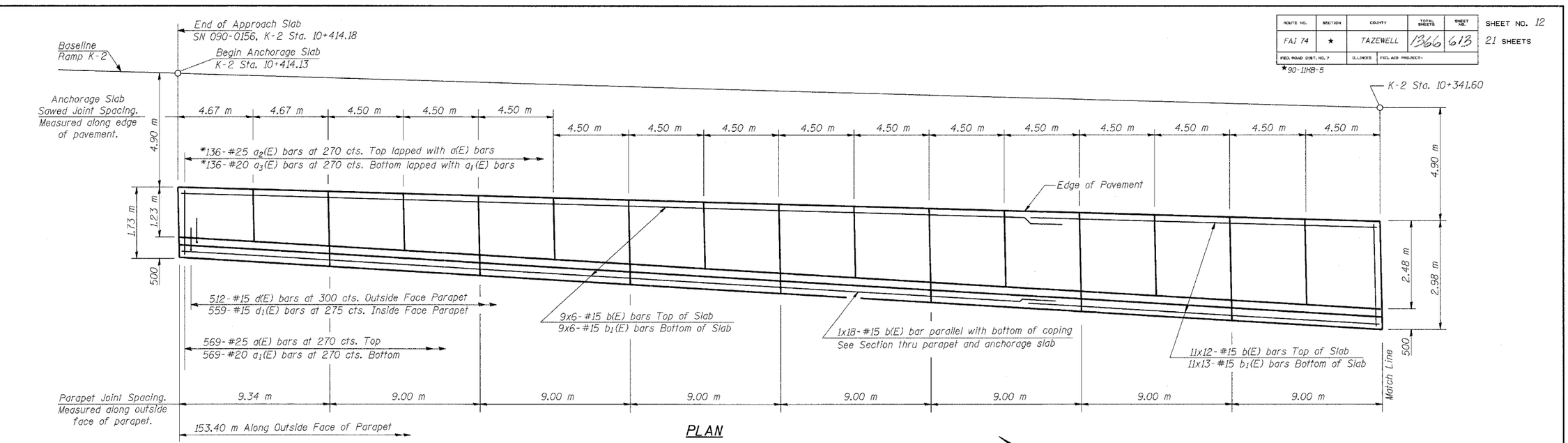
...\Wall 81\rp0411-56090852.dgn 12/10/2004 7:08:00 AM

6823U

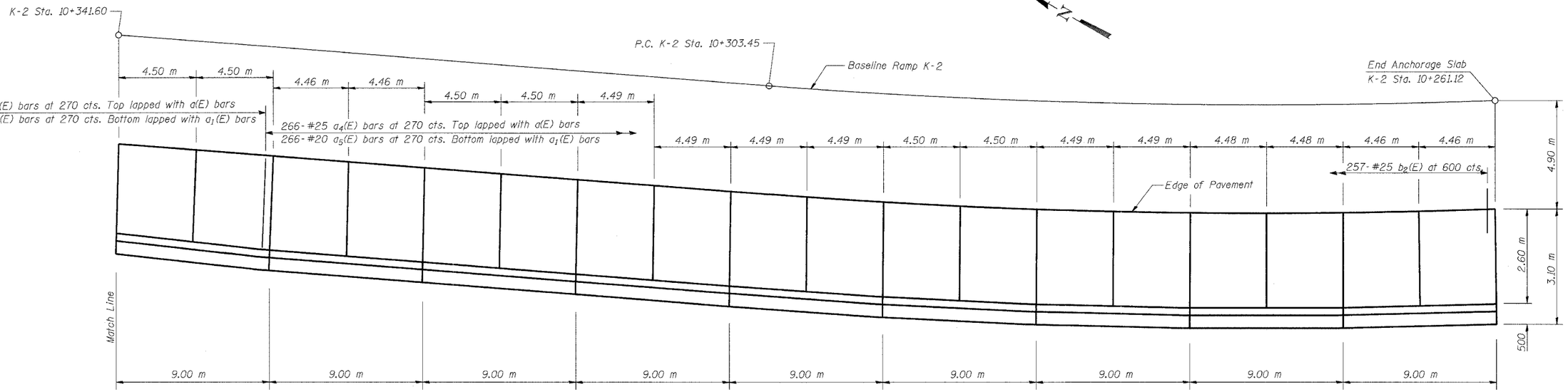
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	1366	613
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 12
21 SHEETS

★90-11HB-5



PLAN



PLAN

* Cut $a_2(E)$ and $a_3(E)$ bars to fit first half of designated length and use remainder in second half.

MIN. BAR LAP

#15 = 510
#20 = 640
#25 = 1.060 m

Reinforcement Bars designated (E) shall be epoxy coated.
Bars indicated thus 9x6-#15 etc. indicates 9 lines of bars with 6 lengths per line.
Work this sheet with Sheet 13 of 21.

LIN ENGINEERING,LTD.
210 W. Chestnut Chatham, Illinois 62629
(217) 483-4168 FAX (217) 483-4706

Designed By MTH	Checked By PBL	Drawn By JMD
Date 06/04	File: rp0412-5b090852.dgn	

REVISIONS
NAME

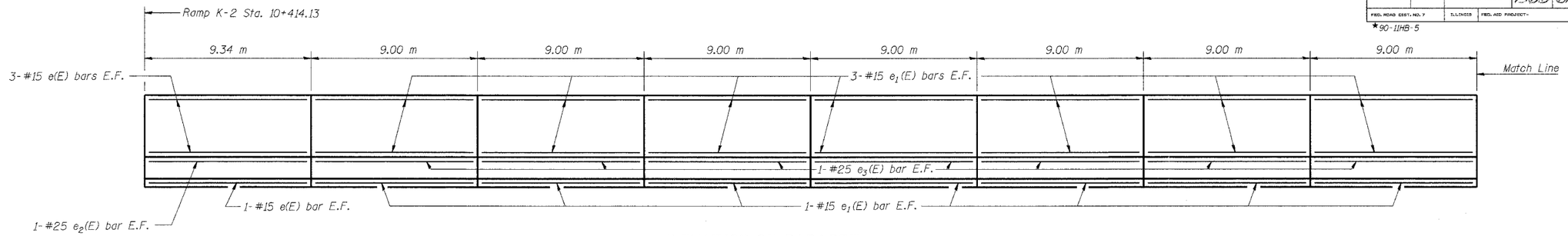
ILLINOIS DEPARTMENT OF TRANSPORTATION

PARAPET & ANCHORAGE SLAB DETAILS
RETAINING WALL 81
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP J-3 STATION 10+037 TO 10+213
S.N. 090-8512

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	1366	614
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

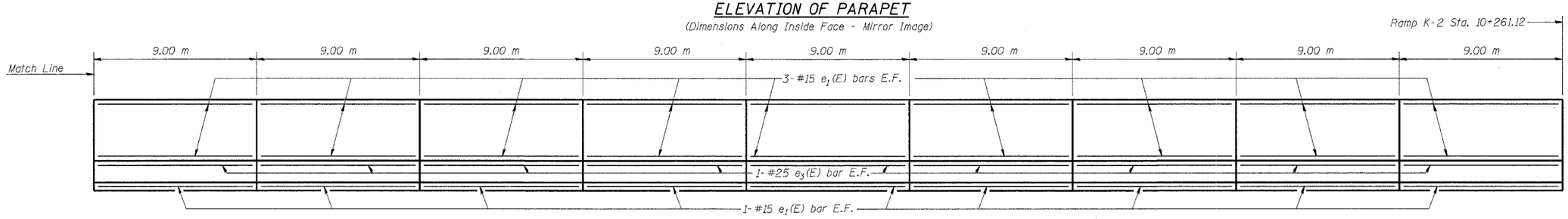
★90-11HB-5

SHEET NO. 13
21 SHEETS



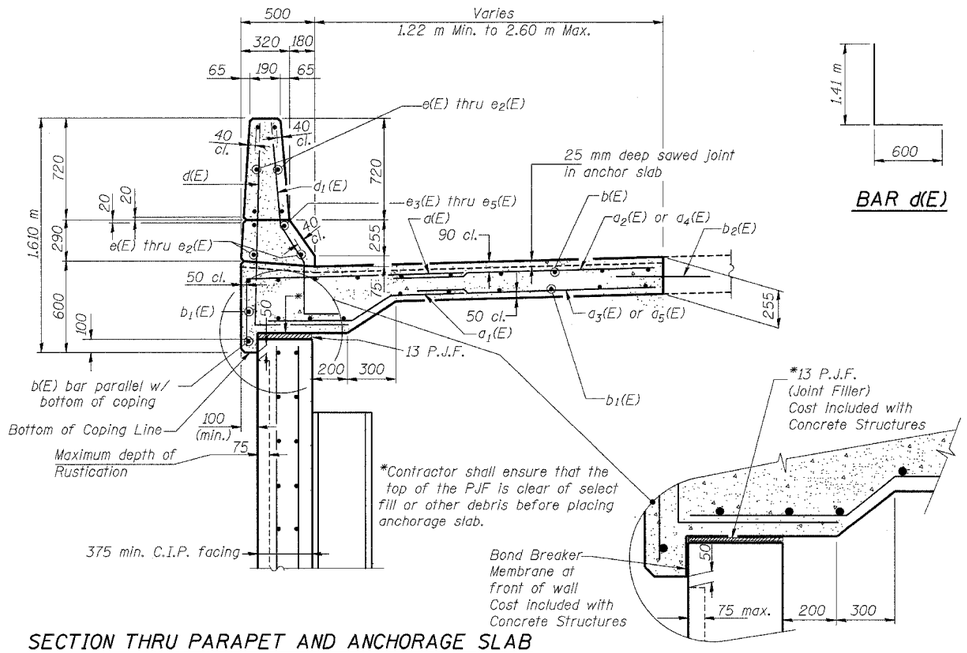
ELEVATION OF PARAPET

(Dimensions Along Inside Face - Mirror Image)



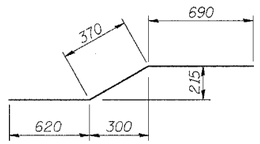
ELEVATION OF PARAPET

(Dimensions Along Inside Face - Mirror Image)

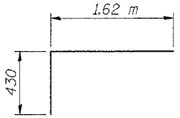


SECTION THRU PARAPET AND ANCHORAGE SLAB

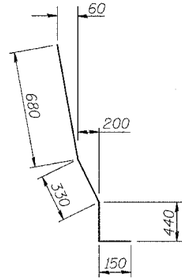
BAR d(E)



BAR a_1(E)

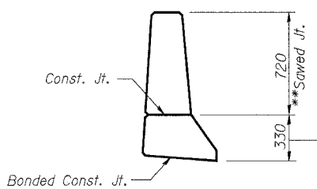


BAR d(E)



BAR d_1(E)

**Saw cut completely through the parapet down to aluminum Sheet. Cost included with Concrete Structures.



3 mm Aluminum sheet ASTM: B 209 alloy 3003-H14. Cost included with "Concrete Structures".

PARAPET JOINT DETAIL

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
d(E)	569	#25	2.05	
d_1(E)	569	#20	1.68	
a_2(E)	136	#25	3.50	
a_3(E)	136	#20	2.66	
a_4(E)	266	#25	2.44	
a_5(E)	266	#20	2.02	
b(E)	204	#15	9.01	
b_1(E)	197	#15	8.56	
b_2(E)	257	#25	0.60	
d(E)	512	#15	2.01	
d_1(E)	559	#15	1.60	
e(E)	8	#15	9.26	
e_1(E)	128	#15	8.92	
e_2(E)	2	#25	9.26	
e_3(E)	32	#25	8.92	
Concrete Structures			m3	183.2
Reinforcement Bars, Epoxy Coated			kg	25630

Work this sheet with sheet 12 of 21.

REVISIONS
NAME

LIN ENGINEERING,LTD.
200 W. Chestnut, Chatham, Illinois 62629
(217) 483-4168 FAX (217) 483-4706
Designed By: MTH | Checked By: PBL | Drawn By: JMD
Date: 06/04 | File: rp0413-5b0908512.dgn

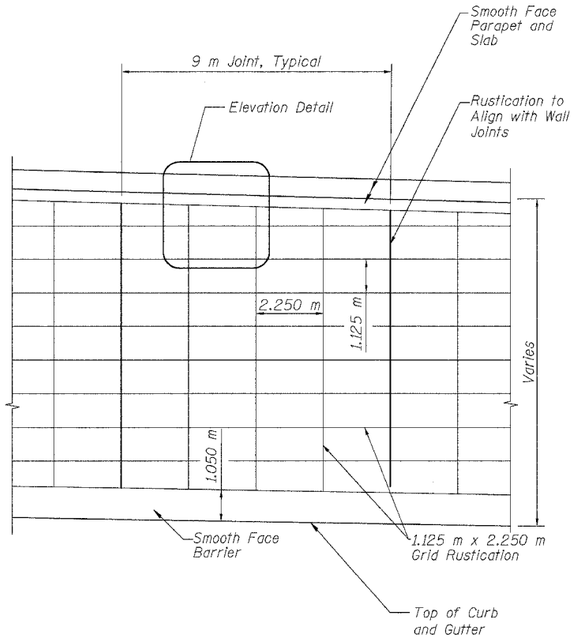
ILLINOIS DEPARTMENT OF TRANSPORTATION

PARAPET & ANCHORAGE SLAB DETAILS
RETAINING WALL 81
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP J-3 STATION 10+037 TO 10+213
S.N. 090-8512

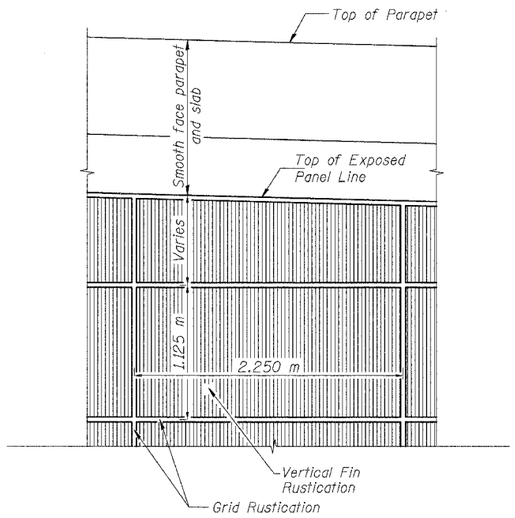
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	1866	615
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 14
21 SHEETS

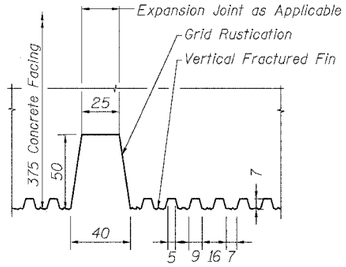
★90-11HB-5



TYPICAL ELEVATION

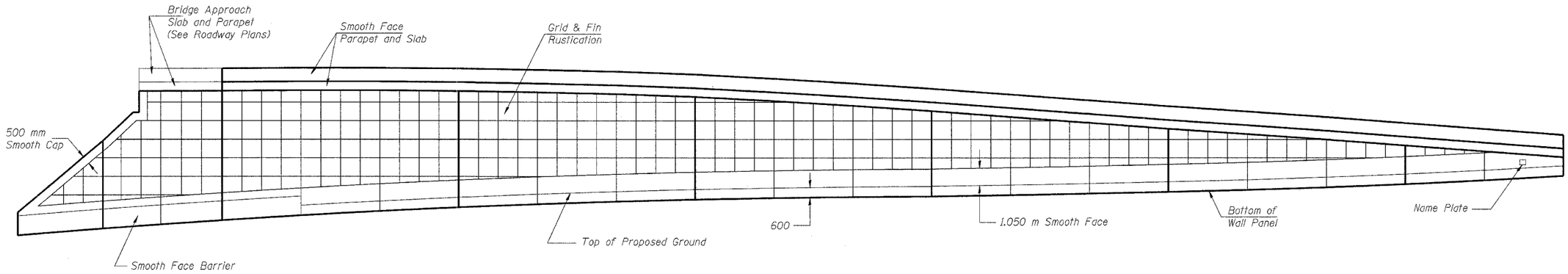


ELEVATION DETAIL



*Dimensions subject to minor variations within the group of approved formliners.

GRID AND FIN RUSTICATION DETAIL



ELEVATION
(Looking East)

BILL OF MATERIAL

Item	Unit	Quantity
Form Liner Grid and Fin Surface	m²	585.3

LIN ENGINEERING, LTD.
210 N. Chestnut, Chatham, Illinois 62629
(217) 483-4615 FAX (217) 483-4706
Designed By: MTH | Checked By: KRG | Drawn By: JMD
Date: 09/02 | File: rp0414-5b0308512.dgn

REVISIONS
NAME

ILLINOIS DEPARTMENT OF TRANSPORTATION
RUSTICATION DETAILS
RETAINING WALL 81
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP J-3 STATION 10+037 TO 10+213
S.N. 090-8512

68201

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	*	TAZEWELL	1366	6/6
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT*	

*90-11HB-5

SHEET NO. 15
21 SHEETS

CLAUDE H. HURLEY COMPANY

BORING LOG

BORING NO. RB-246

PROJECT NO. 3-380-D4

PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION RETAINING WALL NO. 81 (STRUCTURE) RAMP K-2BL (STATION) 10+400.2 (OFFSET) 5.2mL — PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 3-6-96 COMPLETED 3-6-96 SURFACE ELEVATION 155.09

DRILLED BY S. SCOTT LOGGED BY M. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	3-6	DRY	-
DC	3-6	8.0	0
DC	3-7	7.9	1d

DRILLING METHOD
RIG TYPE CME-850
AUGER TYPE-DEPTH 0.08m HSA-10.8m
CASING TYPE-DEPTH -
SAMPLER TYPE AU-SS

Elev	Depth	CLASSIFICATION	N Bp0.15m	Qu KPa	W %	Yd Kgm³
154.70		TOPSOIL FILL: DK BR SILTY LOAM, A-6	AU	-	25	-
154.48		ACCESS FILL: BR SANDY LOAM, A-2-4	AU	-	11	-
	1		5 8 8	-	12	-
		BR SANDY LOAM, A-2-4	10 12 14	-	11	-
153.11	2					
		BR & RD BR TO GR GRAVELLY SAND, A-1-b	13 14 19	-	6	-
	3		7 12 14	-	3	-
151.58						
		BR & GR SAND, A-3	15 22 24	-	3	-
	4		6 9 12	-	3	-
150.07	5					
		BR & GR GRAVELLY SAND, A-1-b	5 5 13	-	5	-
	6		11 20 21	-	6	-
148.23		BLK COAL	13 100/ 0.08m	-	8 26	-
	7					

Elev	Depth	CLASSIFICATION	N Bp0.15m	Qu KPa	W %	Yd Kgm³
		BLK COAL	100/ 0.08m	-	15	-
147.01	8					
		DK GR TO GR LAMINATED CLAY SHALE	66 60/ 0.05m	-	12	-
146.19	9	GR & DK GR LIMESTONE	100/ 0m	-	-	-
145.89		DK GR TO GR LAMINATED CLAY SHALE	1100/ 0.15m	-	8	-
	10					
			31 RCK 0.10m	-	12	-
144.30		END OF BORING				
	11					
	12					
	13					

CLAUDE H. HURLEY COMPANY

BORING LOG

BORING NO. RB-248

PROJECT NO. 3-380-D4

PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION RETAINING WALL NO. 81 (STRUCTURE) RAMP K-2BL (STATION) 10+363.1 (OFFSET) 7.9mL — PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 3-7-96 COMPLETED 3-7-96 SURFACE ELEVATION 152.16

DRILLED BY S. SCOTT/B. HULF LOGGED BY M. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	3-7	DRY	-
DC	3-7	5.3	0
WC	3-8	5.6	1d

DRILLING METHOD
RIG TYPE CME - 850
AUGER TYPE-DEPTH 0.08m HSA-6.5m
CASING TYPE-DEPTH -
SAMPLER TYPE AU-SS

Elev	Depth	CLASSIFICATION	N Bp0.15m	Qu KPa	W %	Yd Kgm³
151.89		ACCESS FILL: BR & RD BR SILTY LOAM, A-4	AU	-	22	-
		TOPSOIL FILL: DK BR SILTY LOAM, A-4	AU	-	27	-
151.61	1		3 6 12	-	14	-
		BR & RD BR LOAM, A-4	9 15 12	-	10	-
150.18	2					
		BR & RD BR TO GR GRAVELLY SAND, A-1-b	9 12 11	-	7	-
149.39	3					
		BR & GR SAND, A-3	11 12 13	-	6	-
	4		7 7 10	-	5	-
147.71	5					
		BLK & YEL BR COAL	29 100/ 0.10m	-	26	-
			100/ 0.15m	-	35	-
146.52	6					
		DK GR TO GR LAMINATED CLAY SHALE	45 100/ 0.12m	-	7	-
145.82		GR & DK GR LIMESTONE				
145.70		END OF BORING AUGER REFUSAL				
	7					

Elev	Depth	CLASSIFICATION	N Bp0.15m	Qu KPa	W %	Yd Kgm³
	8					
	9					
	10					
	11					
	12					
	13					

CLAUDE H. HURLEY COMPANY

BORING LOG

BORING NO. RB-302

PROJECT NO. 3-380-D4

PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION RETAINING WALL NO. 81 (STRUCTURE) RAMP K-2 10+362.3 (STATION) 7.9mL (OFFSET) — PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 3-29-96 COMPLETED 3-29-96 SURFACE ELEVATION 152.02

DRILLED BY B. HULF LOGGED BY M. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	3-29	4.6	-
WC	3-29	4.6	0
WC	4-1	4.0	3d

DRILLING METHOD
RIG TYPE CME-850
AUGER TYPE-DEPTH 0.08m HSA-4.6m
CASING TYPE-DEPTH -
SAMPLER TYPE AU-SS-HX

Elev	Depth	CLASSIFICATION	N Bp0.15m	Qu KPa	W %	Yd Kgm³
		PROBE				
147.45	5	BLK & YEL BR COAL	NX	REC = 71% RQD = 0%		
146.23	6	DK GR TO GR LAMINATED CLAY SHALE	NX	REC = 50% RQD = 0%		
			NX	REC = 100% RQD = 0%		
145.31		GR & DK GR LIMESTONE	NX	REC = 100% RQD = 0%		
145.01	7					

Elev	Depth	CLASSIFICATION	N Bp0.15m	Qu KPa	W %	Yd Kgm³
	8	GR, DK GR & GRN GR MASSIVE CLAY SHALE	NX	REC = 52% RQD = 33%		
	9					
142.88		END OF BORING				
	10					
	11					
	12					
	13					

REVISIONS

NAME	

LIN ENGINEERING,LTD.
20 W. Chestnut — Chatham, Illinois 62629
(217) 483-1168 — FAX (217) 483-1704

Designed By MTH | Checked By KRG | Drawn By JMD
Date 09/02 | File rp0415-5b0908512.dgn

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING DATA
RETAINING WALL 81
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP J-3 STATION 10+037 TO 10+213
S.N. 090-8512

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	*	TAZEWELL	1366	617
FED. ROAD DIST. NO. 9		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 16
21 SHEETS

*90-11HB-5

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 BORING NO. RB-249

PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION RETAINING WALL NO. 81 (STRUCTURE) RAMP K-2BL 10+343.4 (STATION) 7.3mL (OFFSET) PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 3-7-96 COMPLETED 3-7-96 SURFACE ELEVATION 151.61

DRILLED BY S. SCOTT LOGGED BY H. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	3-7	DRY	-
DC	3-7	5.0	0
WC	3-8	5.5	1d

DRILLING METHOD

RIG TYPE CME-850
AUGER TYPE-DEPTH 0.08m HSA-7.8m
CASING TYPE-DEPTH -
SAMPLER TYPE AU-SS

Elev	CLASSIFICATION	Depth	N BpO.15m	Qu KPa	W %	Yd Kgpm³
	ACCESS FILL: BR & RD BR SILTY LOAM, A-4		AU	-	7	-
151.09	BR & RD BR TO GR GRAVELLY SAND, A-1-b	1	10 12 15	-	3	-
150.38	BR & GR SAND, A-3	2	11 7 11	-	5	-
		3	4 7 8	-	4	-
			5 9 11	-	2	-
148.10	COBBLE	4	19 15 24	-	7	-
147.19	BR, GR & RD BR GRAVELLY SAND, A-1-b					
	BLK & YEL BR COAL	5	48 82 18/0m	-	20	-
146.64			49 54/0.02m	-	13	-
	DK GR TO GR LAMINATED CLAY SHALE	6	100/0.05m	-	9	-
		7	100/0.13m	-	11	-
144.45	GR, DK GR & GRN GR MASSIVE CLAY SHALE	8	41 90 20/0m	-	13	-
143.84	END OF BORING	9				
		10				
		11				
		12				
		13				

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 BORING NO. RB-250

PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION RETAINING WALL NO. 81 (STRUCTURE) RAMP K-2BL 10+323.7 (STATION) 0.7mL (OFFSET) PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 2-5-96 COMPLETED 2-7-96 SURFACE ELEVATION 151.65

DRILLED BY S. SCOTT LOGGED BY H. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	2-7	7.7	-
-	2-7	DRY	0
-	2-8	6.6	1d

DRILLING METHOD

RIG TYPE CME-850
AUGER TYPE-DEPTH 0.08m HSA-8.2m
CASING TYPE-DEPTH -
SAMPLER TYPE AB-SS

Elev	CLASSIFICATION	Depth	N BpO.15m	Qu KPa	W %	Yd Kgpm³
	TOPSOIL FILL; DK BR SILTY LOAM, A-4		AU	-	34	-
151.53	BR SILTY LOAM A-4		AU	-	20	-
151.10	BR & GR BR LOAM, A-4	1	AU	-	14	-
			AU	-	15	-
		2	5 7 9	305	14	-
			10 16 19	550	11	-
148.63	BR & GR SAND, A-3	3	7 12 11	-	3	-
		4	7 9 14	-	2	-
147.02	BR, GR & RD BR GRAVELLY SAND, A-1-b	5	11 13 29	-	10	-
146.50	BLK & YEL BR COAL	6	47 100/0.03m	-	19	-
144.97	DK GR TO GR LAMINATED SHALE	7	6 7 7	-	24	-
			33			
	DK GR TO GR LAMINATED SHALE	8	77	-	13	-
			55 65/0.02m	-	11	-
142.60	GR & DK GR LIMESTONE	9	73 27/0.03m	-	10	-
142.45	END OF BORING	10				
		11				
		12				
		13				

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 BORING NO. RB-368

PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION RETAINING WALL NO. 81 (STRUCTURE) RAMP K-2BL 10+310.0 (STATION) 13.0mL (OFFSET) PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR D & G DRILLING, INC.

DATE OF DRILLING: STARTED 12-19-97 COMPLETED 12-19-97 SURFACE ELEVATION 151.04

DRILLED BY J. KODITEK LOGGED BY J. DALTON

GROUNDWATER DATA

	DATE	DEPTH	HOUR
BN	12-19	-	0
DC	12-23	3.9	4d

DRILLING METHOD

RIG TYPE MOBILE B-57
AUGER TYPE-DEPTH 0.10m FA-1.5m / BN-9.5m
CASING TYPE-DEPTH -
SAMPLER TYPE AU-SS

Elev	CLASSIFICATION	Depth	N BpO.15m	Qu KPa	W %	Yd Kgpm³
	FILL: BR SANDY GRAVEL, A-1-a		AU	-	5	-
			8 5 4	-	15	-
150.28	BR & GR SAND, A-3	1	4 4 5	-	11	-
		2	4 5 7	-	14	-
		3	5 7 10	-	12	-
		4	6 7 9	-	10	-
146.62	BR TO GR WEAKLY CEMENTED SANDSTONE		8 13 30	-	10 - 17	-
146.32	BLK & YEL BR COAL	5	100/0.10m	-	20	-
		6	100/0.05m	-	49	-
144.18	DK GR TO GR LAMINATED CLAY SHALE	7	100/0.08m	-	49	-
	DK GR TO GR LAMINATED CLAY SHALE	8	100/0.10m	-	11	-
		9	100/0.10m	-	15	-
141.56	END OF BORING	10	100/0.10m	-	-	-
		11				
		12				
		13				

LIN ENGINEERING,LTD.
200 W. Chestnut
(217) 483-4568
Chatham, Illinois 62629
FAX (217) 483-4706

Designed By WTH | Checked By KRG | Drawn By JMD
Date 09/02 | File: rp0415-5c090512.dgn

REVISIONS
NAME

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING DATA
RETAINING WALL 81
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP J-3 STATION 10+037 TO 10+213
S.N. 090-8512

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RSV ENGINEERING, INC. — SCHAUMBURG, ILLINOIS

BORING LOG

JOB NO: 98600 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION — BORING NO: RWJ3-4
PROJECT: Interstate Route 74 Improvements - Peoria, Illinois — STATION: 10+298
LOCATION: Retaining Wall Ramp J-3 SN 090-8513 — OFFSET: 5.0m Lt
BORING RIG & METHOD: CME-75 w/Hollow Stem Augers — SURF ELEV: 148.66

SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/ 150mm	q_u kPa	STRAIN %	WATER CONTENT %
100mm Root Zone Material: Black Silty Loam A-4; Organic matter noted	148.57		0.00-0.30		Auger			14
Medium Dense Br Sandy Loam A-2-4	147.74		0.30-0.76	330	4 9-13			7
Gr to Br SANDSTONE (weakly cemented)			1.07-1.52	457	33 78-82			10
	146.07		1.83-2.29	356	56 15-12			10
Soft Gr Clay A-7-6 intermixed with Sandstone and Shale fragments (possible partially filled void)	145.61		2.59-3.05	457	1 2-8	38	15	28
Gr SHALE (moderately to slightly lithified); Coal pockets noted			3.35-3.41	51	100/ 50mm			8
			4.11-4.27	152	100/ 150mm			11
		5	4.88-4.94	51	100/ 50mm			7
			5.64-5.88	229	77-100/ 75mm	871	10	11
			6.40-6.71	305	51-100/ 150mm			12
	140.58		7.16-7.50	406	71-46 54/100			17

Boring terminated at 8.1m

REMARKS Straight augered from 7.5m to 8.1m to check for voids and to reach a minimum elvation of 141.5m.

* Denotes Calibrated Penetrometer Estimate

WATER	Dry m	ELEV.	DURING DRILLING	▽ CORE SIZE	mm	DATE:	Jun 16, 00
WATER	m	ELEV.	AT COMPLETION	▼ CASING LENGTH	m	DRILLER:	Fehl
WATER	Dry m	ELEV.	AFTER 1/4 HRS.	▽ CASING DIAMETER	mm	INSPECTOR:	Reed

MUDNA1 RWJ3.GPJ 2/4/01

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. RB-362
PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR
LOCATION RETAINING WALL NO. 81 (STRUCTURE) RAMP K-2BL 10+298.8 (STATION) 12.4mL (OFFSET) PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)
DRILLING CONTRACTOR D & G DRILLING, INC.
DATE OF DRILLING: STARTED 12-15-97 COMPLETED 12-15-97 SURFACE ELEVATION 151.08
DRILLED BY J. KODITEK LOGGED BY J. DALTON

GROUNDWATER DATA

	DATE	DEPTH	HOUR
RW	12-15	5.3	0
WC	12-17	7.7	2d

DRILLING METHOD
RIG TYPE MOBILE B-57
AUGER TYPE-DEPTH 0.10m FA-1.5m RW-9.5m
CASING TYPE-DEPTH -
SAMPLER TYPE AU-SS

Elev	CLASSIFICATION	Depth	N Bp0.15m	Qu KPa	W %	γd Kgpm³
	FILL: BR SAND, A-2-4		AU	-	8	-
			3	-	11	-
			3 4	-	9	-
150.32	BR & GR SAND, A-3	1	3 4 4	-	9	-
		2	7 8 7	-	5	-
			7 8 9	-	3	-
		3	6 6 8	-	3	-
		4	3 4 5	-	4	-
146.36	BR TO GR WEAKLY CEMENTED SANDSTONE	5	23 33 60	-	15	-
145.44	BLK CINDERS W/ COAL FRAGMENTS	6	12 6 4	-	41	-
		7	4 3 2	-	32	-
143.92	DK GR TO GR LAMINATED CLAY SHALE		31 100/ 0.10m	-	16	-
		8	100/ 0.05m	-	14	-
			400 100/ 0.15m	-	15	-
		9	100/ 0.01m	-	-	-
141.60	END OF BORING	10, 11, 12, 13				

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. RB-367
PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR
LOCATION RETAINING WALL NO. 81 (STRUCTURE) RAMP K-2BL 10+288.4 (STATION) 10.9mL (OFFSET) PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)
DRILLING CONTRACTOR D & G DRILLING, INC.
DATE OF DRILLING: STARTED 12-18-97 COMPLETED 12-18-97 SURFACE ELEVATION 151.15
DRILLED BY J. KODITEK LOGGED BY J. DALTON

GROUNDWATER DATA

	DATE	DEPTH	HOUR
RW	12-18	-	0
-	12-19	2.1	1d

DRILLING METHOD
RIG TYPE MOBILE B-57
AUGER TYPE-DEPTH 0.10m FA-1.5m RW-10.3m
CASING TYPE-DEPTH -
SAMPLER TYPE SS

Elev	CLASSIFICATION	Depth	N Bp0.15m	Qu KPa	W %	γd Kgpm³
	FILL: BR GRAVELLY SAND, A-1-a		AU	-	9	-
			5 3 4	-	8	-
150.24	BR SAND, A-2-4	1	5 3 3	-	14	-
149.63	GR SILTY LOAM, A-4	2	7 8 14	-	11	-
149.02	BR LOAM, A-4		10 12 13	-	14	-
		3	7 8 9	-	13	-
147.19	BR & GR SAND, A-3	4	5 5 7	-	16	-
		5	5 8 19	-	9	-
145.97	BR & GR WEAKLY CEMENTED SANDSTONE		8	-	14	-
145.36	BLK CINDERS W/ COAL FRAGMENTS		8 9	-	26	-
		6	3 3 2	-	67	-
144.14	DK GR TO GR LAMINATED CLAY SHALE	7	40 100/ 0.13m	-	16	-
		8	100/ 0.13m	-	17	-
		9	29 35 70	-	17	-
			100/ 0.10m	-	14	-
		10	100/ 0.08m	-	16	-
140.85	END OF BORING	11, 12, 13				

LIN ENGINEERING, LTD.
210 W. Chestnut, Chatham, Illinois 62629
(217) 483-4168 FAX (217) 483-4706

Designed By: MTH	Checked By: KRG	Drawn By: JMD
Date: 09/02	File: rp0417-5b0908512.dgn	

REVISIONS
NAME

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL BORING DATA
RETAINING WALL 81
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP J-3 STATION 10+037 TO 10+213
S.N. 090-8512

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	*	TAZEWELL	1366	619
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT.		

*90-11HB-5

SHEET NO. 18
21 SHEETS

CLAUDE H. HURLEY COMPANY

BORING LOG

BORING NO. RB-363

PROJECT NO. 3-380-04

PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION RETAINING WALL NO. 81 (STRUCTURE) RAMP K-2BL (STATION) 10+277.8 (OFFSET) 10.7mL — PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR D & G DRILLING, INC.

DATE OF DRILLING: STARTED 12-15-97 COMPLETED 12-15-97 SURFACE ELEVATION 151.08

DRILLED BY J. KODITEK LOGGED BY J. DALTON

GROUNDWATER DATA

	DATE	DEPTH	HOUR
BH	12-15	-	0
-	12-16	7.0	16

DRILLING METHOD

RIG TYPE MOBILE B-57 — 0.10m FA-1.5m
AUGER TYPE-DEPTH RB-8.8m
CASING TYPE-DEPTH -
SAMPLER TYPE AU-SS

Elev / Depth	CLASSIFICATION	N Bp0.15m	Qu KPa	W %	Yd Kgpm³
150.62	TOPSOIL FILL: BR & DK BR SILTY LOAM, A-4	AU	-	8	-
		4 6 8	-	10	-
		4 5	-	8	-
		4 6 8	-	4	-
	BR SAND, A-2-4	7 9 11	-	5	-
		10 12 13	-	8	-
		10 13 16	-	5	-
		6 7 8	-	5	-
		11 8 13	-	8	-
145.59	BR & GR SAND, A-3	100/ 0.10m	-	17	-
145.29	BLK LAMINATED COAL	100/ 0.13m	-	23	-
			-	25	-
144.22	DK GR TO GR LAMINATED CLAY SHALE				

Elev / Depth	CLASSIFICATION	N Bp0.15m	Qu KPa	W %	Yd Kgpm³
	DK GR TO GR LAMINATED CLAY SHALE	100/ 0.08m	-	15	-
		100/ 0.15m	-	18	-
		100/ 0.13m	-	14	-
142.27	END OF BORING				

RSV ENGINEERING, INC. — SCHAUMBURG, ILLINOIS

BORING LOG

JOB NO: 98600 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION
PROJECT: Interstate Route 74 Improvements - Peoria, Illinois
LOCATION: Retaining Wall Ramp J-3 SN 090-8513
BORING RIG & METHOD: CME-75 w/Hollow Stem Augers

BORING NO: RWJ3-3
STATION: 10+269
OFFSET: 6.3m Lt
SURF ELEV: 148.75

SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/ 150mm	q_u kPa	STRAIN %	WATER CONTENT %
FILL: Br & Gr Sand A-1-b	148.05		0.00-0.30		Auger 4			10
Br & Gr SANDSTONE (weakly cemented)	147.07		0.30-0.76	457	6-7			14
			1.07-1.52	457	26 22-21			7
Intermixed Br & Gr Sandstone, Shale and Coal (Possible Partially Filled Mine)			1.83-2.29	356	6 8-4			11
	▽ 146.05		2.59-3.05	457	5 5-7			16
			3.35-3.81	381	4 4-13			10
			4.11-4.36	229	35-100/ 75mm			10
		5	4.88-5.03	152	100/ 150mm			9
Gr SHALE (very thinly foliated), becoming Clayey; Coal fragments noted			5.64-5.73	76	100/ 75mm			7
			6.40-6.68	279	87-100/ 125mm			11
			7.16-7.41	229	34-100/ 75mm			10
	140.21		8.08-8.53	457	15 33-67			15

Boring terminated at 8.5m

REMARKS

* Denotes Calibrated Penetrometer Estimate

WATER	3.4 m	ELEV.	145.40	DURING DRILLING	▽ CORE SIZE	mm	DATE: Jun 21, 90
WATER	m	ELEV.		AT COMPLETION	▼ CASING LENGTH	m	DRILLER: Fehl
WATER	Dry m	ELEV.		AFTER 1/4 HRS.	▼ CASING DIAMETER	mm	INSPECTOR: Reed

CLAUDE H. HURLEY COMPANY

BORING LOG

BORING NO. RB-364

PROJECT NO. 3-380-04

PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION RETAINING WALL NO. 81 (STRUCTURE) RAMP K-2BL (STATION) 10+255.3 (OFFSET) 8.3mL — PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR D & G DRILLING, INC.

DATE OF DRILLING: STARTED 12-12-97 COMPLETED 12-12-97 SURFACE ELEVATION 151.09

DRILLED BY J. KODITEK LOGGED BY J. DALTON

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	12-12	6.4	-
BH	12-12	-	0
-	12-16	6.0	44

DRILLING METHOD

RIG TYPE MOBILE B-57 — 0.10m FA-1.5m
AUGER TYPE-DEPTH RB-9.1m
CASING TYPE-DEPTH -
SAMPLER TYPE AU-SS

Elev / Depth	CLASSIFICATION	N Bp0.15m	Qu KPa	W %	Yd Kgpm³
150.79	TOPSOIL FILL: BR & DK BR SILTY LOAM, A-4	AU	-	7	-
		7 8 8	625	11	-
	BR TO BR & GR SILTY LOAM, A-4	10 13 16	230	13	-
149.41	BR SAND, A-3	8 9 13	-	13	-
148.80	BR SAND, A-2-4	9 13 16	-	11	-
147.89	W/SILTY LOAM, A-4 SEAMS	11 11 13	-	11	-
	BR & GR SAND, A-3	9 15 15	-	5	-
		8 7 12	-	22	-
			-	5	-
		10 12 15	-	7	-
		14 12 17	-	12	-

Elev / Depth	CLASSIFICATION	N Bp0.15m	Qu KPa	W %	Yd Kgpm³
	BR & GR SAND, A-3	10 15 16	-	16	-
		14 14 15	-	18	-
142.56	BR SANDY GRAVEL, A-1-a	24	-	12	-
142.25	DK GR TO GR LAMINATED CLAY SHALE	50 100/0.05m	-	15	-
142.04	END OF BORING				

LIN ENGINEERING,LTD.
200 W. Chestnut, Chatham, Illinois 62629
(217) 483-4468 FAX (217) 483-4706
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Date: 06/02 | File: rp0418-5b0908512.dgn

REVISIONS	
NAME	

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING DATA
RETAINING WALL 81
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP J-3 STATION 10+037 TO 10+213
S.N. 090-8512

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	*	TAZEWELL	1366	620
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT*	

*90-11HB-5

SHEET NO. 19
21 SHEETS

RSV ENGINEERING, INC. — SCHAUMBURG, ILLINOIS

BORING LOG

JOB NO: 9860 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION
PROJECT: Interstate Route 74 Improvements - Peoria, Illinois
LOCATION: Retaining Wall Ramp J-3 SN 090-8512
BORING RIG & METHOD: CME-75 w/Hollow Stem Augers

BORING NO: RWJ3-2
STATION: 10+251
OFFSET: 7.0m Lt
SURF ELEV: 149.79

SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLE FROM - TO	REC. mm	BLOWS/ 150mm	q_u kPa	STRAIN %	WATER CONTENT %
50mm Root Zone Material; FILL: Black Clay Loam A-4; Organic matter noted	149.79		0.00-0.30		Auger			21
FILL: Br Clay Loam A-4	148.87		0.30-0.76	457	9 12-15	431*		11
Medium Dense Br Sand A-3	148.11		1.07-1.52	330	6 7-10			10
			1.83-1.95	127	100/ 125mm			12
Br & Gr SANDSTONE (very weakly cemented); Severely weathered Coal pockets noted Interbedded Gr Shale (thinly foliated) below 3.4m	146.15		2.59-2.74	152	100/ 150mm			10
Medium Stiff Gr Shaley CLAY (possible filled void); wood fragments noted	145.59		3.35-3.81	457	24 11-5	48*		8
Hard Gr Shaley CLAY (slightly foliated)	145.09		4.11-4.57	457	5 10-27	393	6	17
		5	4.88-4.97	76	100/ 75mm			6
Gr SHALE (thinly foliated)			5.64-5.94	305	12-100/ 150mm			10
			6.40-6.43	25	100/ 25mm			11
			7.16-7.41	254	88-100/ 100mm			10
	141.41		8.23-8.38	152	210/ 150mm			5
Boring terminated at 8.4m								

REMARKS

* Denotes Calibrated Pocketmeter Estimate

WATER	Dry m	ELEV.	DURING DRILLING	☒ CORE SIZE	mm	DATE: Jun 21, 00
WATER	m	ELEV.	AT COMPLETION	▼ CASING LENGTH	m	DRILLER: Fehl
WATER	Dry m	ELEV.	AFTER 14 HRS.	▼ CASING DIAMETER	mm	INSPECTOR: Reed

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. SB-240
PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR
LOCATION BRIDGE NO. 090-0156 RAMP K-2BL 10+426.4 2.6mR — PEORIA & TAZEWELL COUNTIES, ILLINOIS
(STRUCTURE / STATION / OFFSET / STATE)
DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY
DATE OF DRILLING: STARTED 3-29-96 COMPLETED 4-2-96 SURFACE ELEVATION 161.33
DRILLED BY B. WULF/S. SCOTT — LOGGED BY M. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	3-29	5.7	-
WC	4-2	14.6	0
WC	4-3	14.6	1d

DRILLING METHOD
RIG TYPE CME-850
AUGER TYPE-DEPTH 0.08m HSA-14.5m
CASING TYPE-DEPTH -
SAMPLER TYPE AU-SS-NX

Elev / Depth	CLASSIFICATION	N Bp0.15m	q_u KPa	W %	γ_d Kgpm^3
161.09	TOPSOIL FILL:. DK BR SILTY LOAM, A-6	AU	-	17	-
		AU	430	15	-
		AU	430	13	-
157.73	GR BR, BR GR & GR CLAY LOAM, A-4	3 4 4	335	14	-
		6 10 12	430	14	-
157.28	BR & RD BR SILTY LOAM, A-4	6 17 15	430	13	-
		8 22 25	335 765	14 13	-
154.99	LT BR TO BR SILT, A-4	10 15 20	-	8	-
		17 16 13	-	18	-
	BR SAND, A-3	8 10 10	-	26	-
		8 9 10	-	3	-

Elev / Depth	CLASSIFICATION	N Bp0.15m	q_u KPa	W %	γ_d Kgpm^3
	BR SAND, A-3	9 11 15	-	4	-
153.47	BR & RD BR LOAM, A-4	8 8 12	295	15	-
		7 11 11	400	13	-
		8 7 11	335	13	-
151.13	BR & RD BR SILTY LOAM, A-6	9 8 10	-	19	-
150.45	BR & GR SAND, A-3	2 3 5	-	3	-
		5 8 7	-	4	-
148.89	SHALE SEAM BR & GR WEAKLY CEMENTED SANDSTONE	23 13 19	-	11	-

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. SB-240 (CONT.)
PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR
LOCATION BRIDGE NO. 090-0156 RAMP K-2BL 10+426.4 2.6mR — PEORIA & TAZEWELL COUNTIES, ILLINOIS
(STRUCTURE / STATION / OFFSET / STATE)
DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY
DATE OF DRILLING: STARTED 3-29-96 COMPLETED 4-2-96 SURFACE ELEVATION 161.33
DRILLED BY B. WULF/S. SCOTT — LOGGED BY M. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	3-29	5.7	-
WC	4-2	14.6	0
WC	4-3	14.6	1d

DRILLING METHOD
RIG TYPE CME-850
AUGER TYPE-DEPTH 0.08m HSA-14.5m
CASING TYPE-DEPTH -
SAMPLER TYPE AU-SS-NX

Elev / Depth	CLASSIFICATION	N Bp0.15m	q_u KPa	W %	γ_d Kgpm^3
148.13	BR & GR WEAKLY CEMENTED SANDSTONE	23 45 50	-	27	-
	BLK COAL VOID				
146.46	DK GR TO GR LAMINATED CLAY SHALE	6 12 70	-	27	-
			-	14	-
		NX	REC = 100% RQD = 42%		
		NX	REC = 100% RQD = 54%		
144.63	GR, DK GR & GRN GR MASSIVE CLAY SHALE	NX	REC = 100% RQD = 91%		
143.77	GR LAMINATED CLAY SHALE	NX	REC = 100% RQD = 40%		
		NX	REC = 5% RQD = 0%		
		NX	REC = 100% RQD = 37%		
141.73	END OF BORING				

Elev / Depth	CLASSIFICATION	N Bp0.15m	q_u KPa	W %	γ_d Kgpm^3

LIN ENGINEERING, LTD.
290 W. Chestnut, Chatham, Illinois 62629
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Date: 09/02 | File: rp0419-52090512.dgn

REVISIONS	
NAME	

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING DATA
RETAINING WALL 81
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP J-3 STATION 10+037 TO 10+213
S.N. 090-8512

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CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. BB-254

PROJECT FAI-34 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION BACKSLOPE (STRUCTURE) RAMP K-2BL 10+393.1 (STATION) 17.6mR (OFFSET) PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 3-27-96 COMPLETED 3-27-96 SURFACE ELEVATION 167.99

DRILLED BY B. WULF — LOGGED BY M. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	3-27	11.9	-
DC	3-27	13.8	0
DC	3-28	9.9	1d

DRILLING METHOD: RIG TYPE CME-850; AUGER TYPE-DEPTH 0.08m HSA-22.0m; CASING TYPE-DEPTH -; SAMPLER TYPE AU-SS

Elev	Depth	CLASSIFICATION	N Bp0.15m	Qu KPa	W %	γd Kgpm³
		TOPSOIL FILL: DK BR SILTY LOAM, A-4	AU	-	28	-
167.90		BR SILTY LOAM, A-4	AU	-	14	-
167.26	1					
			AU	-	10	-
	2	GR BR CLAY LOAM, A-4				
			AU	-	17	-
	3		4 5 8	-	12	-
164.52			20 26 31	-	10	-
	4		7 12 12	480	11	-
	5	GR BR; BR GR & GR CLAY LOAM, A-4	6 7 9	345	13	-
	6		7 8 11	295	14	-
	7		8 9 13	335	14	-
			7 11 21	430	13	-

Elev	Depth	CLASSIFICATION	N Bp0.15m	Qu KPa	W %	γd Kgpm³
	8	GR BR, BR GR & GR CLAY LOAM, A-4	12 14 26	775	13	-
159.94		BR, GR & BR SILTY CLAY LOAM, A-4	14 26 24	975	12	-
159.18	9		23 28 24	-	3	-
	10	BR SAND, A-3 TO A-1-b	10 15 20	-	2	-
			11 17 22	-	4	-
156.90	11	BR SAND, A-3	11 15 15	-	8	-
156.13	12	BR SILT, A-4	7	-	25	-
155.83		BR SAND, A-3	21 19	-	5	-
	13		17 26 27	-	4	-

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. BB-254 (CONT.)

PROJECT FAI-34 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION BACKSLOPE (STRUCTURE) RAMP K-2BL 10+393.1 (STATION) 17.6mR (OFFSET) PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 3-27-96 COMPLETED 3-27-96 SURFACE ELEVATION 167.99

DRILLED BY B. WULF — LOGGED BY M. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	3-27	11.9	-
DC	3-27	13.8	0
DC	3-28	9.9	1d

DRILLING METHOD: RIG TYPE CME-850; AUGER TYPE-DEPTH 0.08m HSA-22.0m; CASING TYPE-DEPTH -; SAMPLER TYPE AU-SS

Elev	Depth	CLASSIFICATION	N Bp0.15m	Qu KPa	W %	γd Kgpm³
		BR SAND, A-3				
	14		11 14 16	-	6	-
153.85		BR & RD BR LOAM, A-4 W/ SAND, A-3 SEAMS				
153.09	15	BR & RD BR SILTY LOAM, A-4 W/ SILT, A-4 & SAND, A-3 SEAMS	11 16 22	-	15	-
152.32			12 14 16	-	13	-
	16	BR & RD BR GRAVELLY SAND, A-1-b	16 21 22	-	3	-
	17		16 21 23	-	3	-
150.34		BR SILT, A-4	14 25 27	- -	3 22	- -
149.88	18	BR & GR SAND, A-3	12 17 18	-	4	-
	19		12 21 19	-	3	-
148.39		BLK COAL	100/ 0.13m	-	13	-
	20					

Elev	Depth	CLASSIFICATION	N Bp0.15m	Qu KPa	W %	γd Kgpm³
		BLK COAL	100/ 0.08m	-	16	-
147.19	21	DK GR TO GR LAMINATED CLAY SHALE	100/ 0.13m	-	9	-
			100/ 0.08m	-	6	-
145.99	22	END OF BORING				
	23					
	24					
	25					
	26					

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. RB-247

PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION RETAINING WALL NO. 82 RAMP K-2BL 10+381.3 (STRUCTURE) 2.8mR (STATION) (OFFSET) PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 3-6-96 COMPLETED 3-6-96 SURFACE ELEVATION 158.26

DRILLED BY S. SCOTT — LOGGED BY M. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	3-6	11.3	-
DC	3-6	8.4	0
DC	3-7	8.1	1d

DRILLING METHOD: RIG TYPE CME-850; AUGER TYPE-DEPTH 0.08m HSA-13.8m; CASING TYPE-DEPTH -; SAMPLER TYPE AU-SS

Elev	Depth	CLASSIFICATION	N Bp0.15m	Qu KPa	W %	γd Kgpm³
		ACCESS FILL: DK GR, GR & GR BR SILTY LOAM, A-4	AU	-	21	-
158.17		GR BR, BR GR & GR SILTY LOAM, A-4	AU	-	13	-
	1		5 5 11	-	13	-
157.53		BR SILTY LOAM, A-4		-	14	-
157.04		BR STRATIFIED SILT, A-4 AND SILTY CLAY, A-6	18 23 22	-	18	-
156.58		BR & GR GRAVELLY LOAM, A-4		-	6	-
156.28	2	BR & RO BR GRAVELLY SAND, A-1-b	12 12 17	-	6	-
156.52	3	BR SAND, A-3	12 13 20	-	2	-
	4		10 12 12	-	3	-
153.99		BR & RD BR LOAM, A-4 W/ SAND A-3 SEAMS	13 14 20	-	15	-
153.23	5	BR & RD BR SANDY LOAM, A-2-4	12 13 14	-	9	-
	6		15 20 22	-	4	-
151.71		BR & RD BR TO GR GRAVELLY SAND, A-1-b	15 17 19	-	5	-
	7					

Elev	Depth	CLASSIFICATION	N Bp0.15m	Qu KPa	W %	γd Kgpm³
150.94		BR & GR SAND, A-3	17 13 23	-	2	-
	8		15 20 30	-	2	-
148.66	9	BR & GR GRAVELLY SAND, A-1-b	15 23 28	-	4	-
147.85	10	BR & RD BR SAND, A-3	12 17 22	-	5	-
	11		13 19	-	17	-
146.76		DK GR TO GR LAMINATED CLAY SHALE	81/ 0.10m	-	16	-
146.40	12	GR & DK GR LIMESTONE	100/0m	-	-	-
145.92		GR, DK GR & GRN GR MASSIVE CLAY SHALE	80 110	-	15	-
	13					

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210 W. Chestnut, Chatham, Illinois 62629
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Date 09/02 | Files rp0420-S0090B512.dgn

REVISIONS	
NAME	

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING DATA
RETAINING WALL 81
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP J-3 STATION 10+037 TO 10+213
S.N. 090-8512

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	*	TAZEWELL	1366	622
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 21
21 SHEETS

*90-11HB-5

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. RB-247 (CONT.)

PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION RETAINING WALL NO. 82 (STRUCTURE) RAMP K-2BL 10+381.3 (STATION) 2.8mR (OFFSET) PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 3-6-96 COMPLETED 3-6-96 SURFACE ELEVATION 158.26

DRILLED BY S. SCOTT — LOGGED BY N. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	3-6	11.3	-
DC	3-6	8.4	0
DC	3-7	8.1	1d

DRILLING METHOD: RIG TYPE CME-850; AUGER TYPE-DEPTH 0.08m HSA-13.8m; CASING TYPE-DEPTH -; SAMPLER TYPE AD-SS

Elev	Depth	CLASSIFICATION	N Bp0.15m	Qu KPa	W %	γd Kgpm³
		GR, DK GR & GRN GR MASSIVE CLAY SHALE	25 / 100/ 0.10m	-	15	-
144.45		END OF BORING				

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. BB-253

PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION BACKSLOPE (STRUCTURE) RAMP K-2BL 10+423.5' 17.3mR (STATION/OFFSET) PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 4-3-96 COMPLETED 4-3-96 SURFACE ELEVATION 171.97

DRILLED BY S. SCOTT — LOGGED BY N. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	4-3	8.7	-
WC	4-3	17.9	0
WC	4-4	18.0	1d

DRILLING METHOD: RIG TYPE CME-850; AUGER TYPE-DEPTH 0.08m HSA-25.3m; CASING TYPE-DEPTH -; SAMPLER TYPE AU-SS

Elev	Depth	CLASSIFICATION	N Bp0.15m	Qu KPa	W %	γd Kgpm³
171.88		TOPSOIL FILL: DK BR SILTY LOAM, A-4	AU	-	19	-
170.20		GR BR CLAY LOAM, A-4	AU	-	14	-
	1		AU	-	11	-
			AU	-	8	-
	2		AU	-	8	-
			5 7 14	610	13	-
	3		8 14 18	930	8	-
	4		9 12 13	900	11	-
	5		4 7 8	585	12	-
166.70		GR BR, BR GR & GR CLAY LOAM, A-4	3 5 7	365	12	-
	6		2 5 6	345	12	-
	7		2	-	-	-
	8		3 5 6	285	16	-
			4 6 10	365	14	-
	9		8 10 10	615	12	-
	10	GR BR, BR GR & GR CLAY LOAM, A-4	3 5 5	500	13	-
	11		3 5 7	450	14	-
	12		3 6 9	375	14	-
			3 4 7	335	14	-
158.77	13	BR GRAVELLY SAND, A-1-b	10	620	13	-

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. RB-253 (CONT.)

PROJECT FAI-34 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION BACKSLOPE (STRUCTURE) RAMP K-2BL 10+423.5 17.3mR (STATION/OFFSET) PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 4-3-96 COMPLETED 4-3-96 SURFACE ELEVATION 171.97

DRILLED BY S. SCOTT — LOGGED BY N. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	4-3	8.7	-
WC	4-3	17.9	0
WC	4-4	18.0	1d

DRILLING METHOD: RIG TYPE CME-850; AUGER TYPE-DEPTH 0.08m HSA-25.3m; CASING TYPE-DEPTH -; SAMPLER TYPE AU-SS

Elev	Depth	CLASSIFICATION	N Bp0.15m	Qu KPa	W %	γd Kgpm³
		BR GRAVELLY SAND, A-1-b	12 12	-	6	-
	15		12 12 12	615	6 13	-
157.86		BR, RD BR SILTY LOAM, A-4	47 / 53/ 0.03m	-	12	-
		COBBLES				
156.94		LT BR TO BR SILT, A-4	11 17 17	-	20	-
	16		18 17 15	-	18 6	-
155.72		BR GRAVELLY SAND, A-1-b	13 12 13	-	5	-
154.50	17		16 16 20	-	3	-
		BR SAND, A-3	10 15 17	-	3	-
152.98	18		13 16 20	545	14	-
152.22	19	BR SILTY LOAM, A-4	13 14 15	510	13	-
	20	BR & RD BR LOAM, A-4				
	21		16 18 21	510	14	-
			15 18 21	575	11	-
149.93	22		17 20 28	-	3	-
148.10	23	BR & GR SAND, A-3	10 16 20	-	3	-
	24	BR & GR WEAKLY CEMENTED SANDSTONE	26 / 74/ 0.10m	-	12	-
147.04	25	BLK COAL	100/ 0.15m	-	11	-
146.67		END OF BORING	100/ 0.05m	-	18	-
	26					

LIN ENGINEERING,LTD.
20 N. Chestnut, Chatham, Illinois 62629
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REVISIONS	
NAME	

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING DATA
RETAINING WALL 81
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP J-3 STATION 10+037 TO 10+213
S.N. 090-8512

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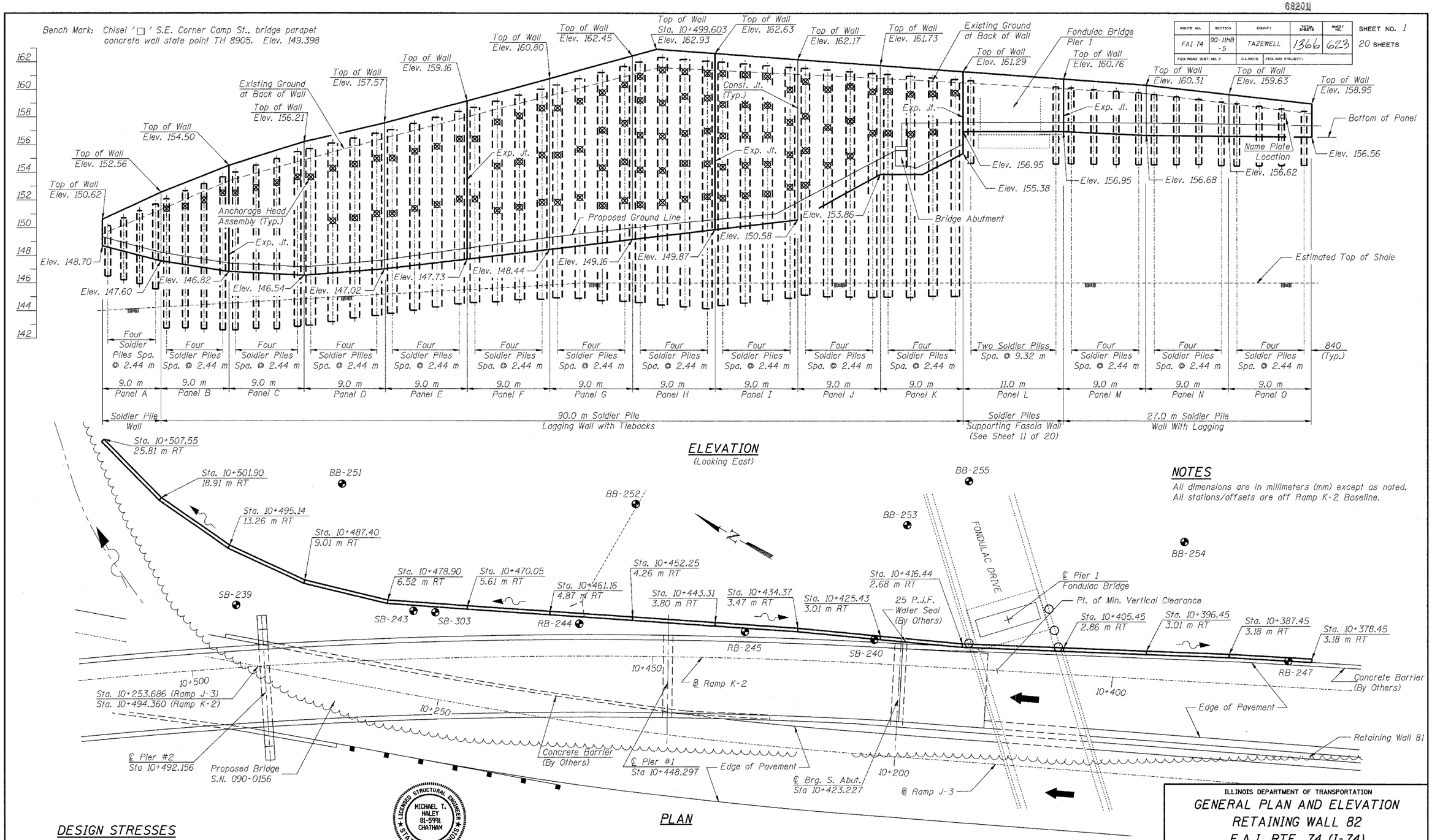
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	90-11HB -5	TAZEWELL	1366	623
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
20 SHEETS

Bench Mark: Chisel '□' S.E. Corner Camp St., bridge parapet concrete wall state point TH 8905. Elev. 149.398



ELEVATION
(Looking East)

PLAN

NOTES
All dimensions are in millimeters (mm) except as noted.
All stations/offsets are off Ramp K-2 Baseline.

DESIGN STRESSES
f'_c = 24 MPa (Concrete)
f'_c = 27.5 MPa (Grout)
f_y = 400 MPa (Reinf.)
f_y = 345MPa (Soldier Piles) (M270 M Grade 345)
f'_s = 1860 MPa (15mm ϕ Low Lax Strands)
f'_{si} = 1395 MPa (15mm ϕ Low Lax Strands)

LICENSED STRUCTURAL ENGINEER
MICHAEL T. HALEY
81-5991
CHATHAM
STATE OF ILLINOIS

Michael T. Haley 12-20-04
Michael T. Haley — Date
Licensed Structural Engineer
State of Illinois No. 81-5991

DESIGN SPECIFICATIONS
1996 AASHTO Specifications with 1997 thru 2000 Interim

REVISIONS
NAME

LIN ENGINEERING, LTD.
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ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
RETAINING WALL 82
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP K-2 STATION 10+378 TO 10+507
STRUCTURE NUMBER 090-8513

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	136	624
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 2
20 SHEETS

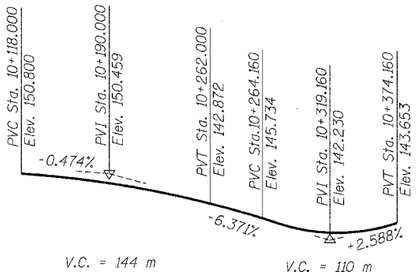
★90-11HB-5

GENERAL NOTES

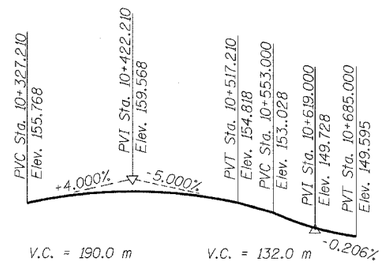
1. Reinforcement Bars shall conform to the requirements of AASHTO M-31M, or M-322M Grade 400.
2. See Special Provisions for installation and testing of Permanent Ground Anchors.
3. Shear Studs Shall be 19mm diameter x 200mm granular or solid flux filled headed studs automatically end welded to the front flange in field.
4. The geocomposite wall drain shall be constructed according to section 591 of the Standard Specifications. The contractor shall insure that the bottom, sides and the top edges are protected from soil entering or sealing the drain while placing the pervious fabric side of the drain toward the soil. Geocomposite wall drain shall be installed in stages as the excavation proceeds downward. Splicing should be minimized, following proper splice practices to insure no long term soil contamination.
5. The treated timber lagging shall conform to the requirements for 1600 F dense southern pine or 1700 F dense Douglas fir. All treated timber lagging shall be treated according to art. 1007.12(a)(2) of the Standard Specifications and each cut edge of any timbers shall have those faces covered with additional treatment as required by the Engineer.
6. All dimensions are in millimeters (mm) except as noted.
7. All construction joints shall be bonded.

STATION 10+380
BUILT 200_ BY
STATE OF ILLINOIS
FAI RTE 74
SECTION 90-11HB-5
STR. NO. 090-8513

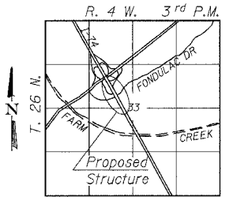
NAME PLATE
See Std. 515001



PROFILE GRADE RAMP J-3



PROFILE GRADE RAMP K-2



LOCATION SKETCH

TOTAL BILL OF MATERIAL

Item	Unit	Quantity
Untreated Timber Lagging	m^2	738
Treated Timber Lagging	m^2	23
Concrete Structures	m^3	410.8
Reinforcement Bars, Epoxy Coated	kg	38210
Drilling & Setting Soldier Piles	m^3	506.8
Permanent Ground Anchors	Each	106
Furnishing Soldier Piles (Built up section)	m	587.4
Furnishing Soldier Piles (W section)	m	102.0
Geocomposite Wall Drain	m^2	417
French Drains	m^3	13
Name Plates	Each	1
Furnishing & Erecting Structural Steel	kg	3290
Stud Shear Connectors	Each	4546
Structure Excavation	m^3	607
Lightweight Cellular Concrete Fill	m^3	51.7
Form Liner Grid and Fin Surface	m^2	907.0

CURVE DATA

	RAMP J-3	RAMP K-2
△	6°05'48.00"	7°58'57.09"
R	450.000 m	580.000 m
T	23.964 m	40.469 m
L	47.883 m	80.806 m
E	0.638 m	1.410 m
PC	10+204.232	10+423.959
PI	10+228.196	10+481.535
PT	10+252.115	10+504.765
SE	6.2%	4.4%
Transition in:	10+177 to 10+218	10+385 to 10+443
Transition out:	10+237 to 10+283	10+486 to 10+544

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REVISIONS
NAME

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
RETAINING WALL 82
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP K-2 STATION 10+378 TO 10+507
STRUCTURE NUMBER 090-8513

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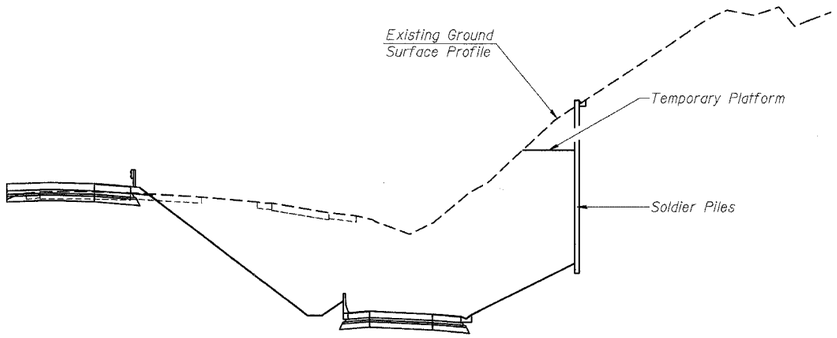
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	1366	625
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 3
20 SHEETS

★90-11HB-5



CROSS-SECTION

SUGGESTED METHOD OF CONSTRUCTION FOR CUT SITUATION

1. Install three successive Soldier Piles in permanent locations in the shallow area starting at the south end (Panel 0). See the Sequence of Construction.
2. Place timber lagging to an appropriate elevation for creating a temporary platform as shown above. The progressive end of the platform terminates with an embankment cone of the non-excavated area.
3. Use this platform to install the next two soldier piles & lagging.
4. Install first level of Permanent Ground Anchors where necessary as the platform construction progresses.
5. Repeat the above procedure to install all the soldier piles and until the temporary platform is continuous from one end to the other.
6. The remaining operations shall follow the Standard Construction Procedures for tieback walls for top down construction.

Notes: The Contractor shall submit a detailed Construction Procedure outlining the whole Sequence of Construction along with the computations to the Engineer for review and acceptance. The submitted documents shall be sealed by a Structual Engineer registered in State of Illinois.

SEQUENCE OF CONSTRUCTION

1. Drill hole for soldier pile.
2. Remove loose material and excess water from hole and Set Soldier Pile in hole, using temporary bracing to maintain correct elevation, clearances, and position during and after placement of concrete.
3. Place Encasement Concrete around soldier pile to the level indicated in Table on sheet 4 of 20. Place Controlled Low Strength Material (CLSM) concrete to the ground surface.
4. After concrete has cured, excavate in front of wall in stages removing only the soil and CSLM concrete necessary to place each timber lagging, and the Geocomposite Wall Drain.
5. After lagging and Geocomposite Wall Drain placement has reached the elevations shown in Table on sheet 4 of 20, install, test, and lock off Permanent Ground Anchor (see special provisions).
6. Continue the excavation for construction of French Drains and line trench with Geotechnical Filter Fabric.
7. Place the 100 ϕ perforated corrugated polyethylene (PE) tubing and connect the vertical geocomposite wall drain to the longitudinal French Drain and backfill as shown on the plans. Construct wall panels.

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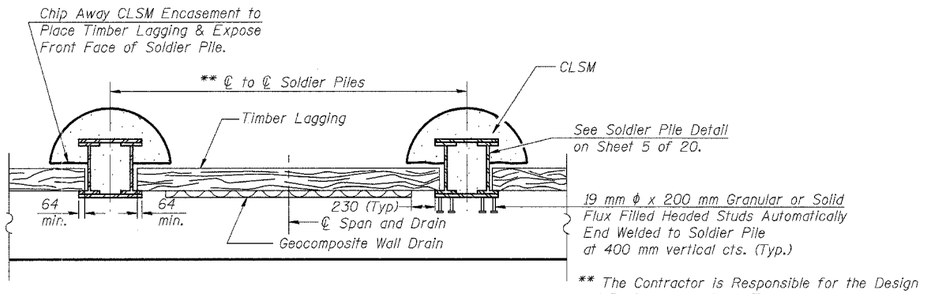
NAME	

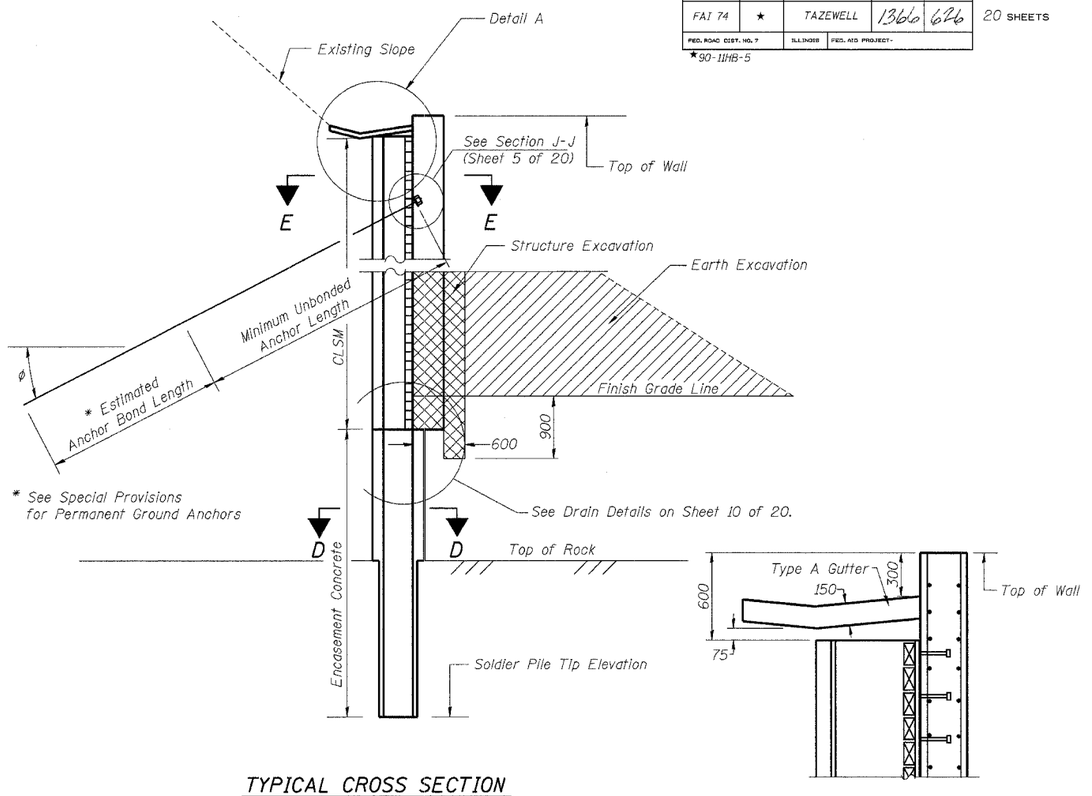
ILLINOIS DEPARTMENT OF TRANSPORTATION
SEQUENCE OF CONSTRUCTION
RETAINING WALL 82
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP K-2 STATION 10+378 TO 10+507
STRUCTURE NUMBER 090-8513

Panel	Soldier Pile Designation	Station	Offset to Working Point	Pile Size	Top of Soldier Pile Elevation	Bottom of Soldier Pile Elevation	Top of Encasement Concrete Elevation	Estimated Length of Soldier Pile (m)	Diameter of Shaft Excavation (m)	Number of Shear Connectors
A	A1	10+506.88	25.267	W310x158	150.187	146.213	148.300	3.700	0.610	12
	A2	10+505.31	23.398	W310x158	150.713	146.213	148.000	4.500	0.610	16
	A3	10+503.80	21.514	W310x158	151.239	145.939	147.700	5.300	0.610	20
	A4	10+502.28	19.649	W310x158	151.765	145.565	147.530	6.200	0.610	24
B	B1	10+501.20	18.492	2-W250x80	152.127	142.727	147.320	9.400	0.914	52
	B2	10+499.36	16.949	2-W250x80	152.653	142.753	147.100	9.900	0.914	60
	B3	10+497.52	15.412	2-W250x80	153.179	142.679	146.890	10.500	0.914	68
	B4	10+495.67	13.881	2-W250x80	153.705	142.605	146.790	11.100	0.914	72
C	C1	10+494.35	12.985	2-W250x80	154.049	142.649	146.720	11.400	0.914	76
	C2	10+492.25	11.820	2-W310x107	154.512	142.712	146.640	11.800	1.067	84
	C3	10+490.05	10.664	2-W310x107	154.976	142.676	146.570	12.300	1.067	88
	C4	10+488.03	9.515	2-W310x107	155.440	142.740	146.540	12.700	1.067	92
D	D1	10+486.57	8.908	2-W310x107	155.730	142.930	146.540	12.800	1.067	96
	D2	10+484.26	8.223	2-W250x80	156.099	143.199	146.580	12.900	0.914	100
	D3	10+481.95	7.547	2-W250x80	156.468	143.468	146.710	13.000	0.914	104
	D4	10+479.63	6.881	2-W250x80	156.836	143.636	146.850	13.200	0.914	104
E	E1	10+478.05	6.600	2-W310x107	157.109	143.809	146.980	13.300	1.067	104
	E2	10+475.65	6.343	2-W310x107	157.540	144.040	147.090	13.500	1.067	108
	E3	10+473.25	6.095	2-W310x107	157.971	144.271	147.280	13.700	1.067	112
	E4	10+470.85	5.858	2-W310x107	158.402	144.502	147.470	13.900	1.067	112
F	F1	10+469.19	5.704	2-W310x107	158.703	144.603	147.660	14.100	1.067	116
	F2	10+466.78	5.493	2-W310x107	159.148	144.648	147.800	14.500	1.067	116
	F3	10+464.37	5.292	2-W310x107	159.592	144.792	147.990	14.800	1.067	120
	F4	10+461.96	5.101	2-W310x107	160.037	144.837	148.180	15.200	1.067	124
G	G1	10+460.30	4.975	2-W310x107	160.344	144.944	148.370	15.400	1.067	124
	G2	10+457.89	4.799	2-W310x107	160.791	144.891	148.510	15.900	1.067	128
	G3	10+455.47	4.634	2-W310x107	161.239	144.739	148.700	16.500	1.067	128
	G4	10+453.06	4.478	2-W310x107	161.686	144.686	148.930	17.000	1.067	132
H	H1	10+451.39	4.378	2-W310x107	161.994	144.594	149.090	17.400	1.067	132
	H2	10+448.98	4.243	2-W310x107	162.322	144.422	149.230	17.900	1.067	136
	H3	10+446.56	4.118	2-W310x107	162.197	144.297	149.420	17.900	1.067	132
	H4	10+444.14	4.003	2-W310x107	162.072	144.172	149.610	17.900	1.067	128
I	I1	10+442.47	3.929	2-W310x107	161.986	144.386	149.790	17.600	1.067	128
	I2	10+440.05	3.829	2-W310x107	161.862	144.562	149.940	17.300	1.067	124
	I3	10+437.62	3.740	2-W310x107	161.734	144.734	150.130	17.000	1.067	120
	I4	10+435.20	3.660	2-W310x107	161.612	144.912	150.320	16.700	1.067	116
J	J1	10+433.52	3.559	2-W250x80	161.528	145.128	150.510	16.400	0.914	116
	J2	10+431.10	3.426	2-W250x80	161.409	145.009	150.890	16.400	0.914	108
	J3	10+428.68	3.302	2-W250x80	161.290	144.990	151.780	16.300	0.914	100
	J4	10+426.26	3.188	2-W250x80	161.170	144.970	152.660	16.200	0.914	88
K	K1	10+424.59	3.119	2-W250x80	161.088	144.988	153.550	16.100	0.914	80
	K2	10+422.15	3.030	2-W250x80	160.969	144.969	153.860	16.000	0.914	76
	K3	10+419.71	2.940	2-W250x80	160.850	145.050	153.860	15.800	0.914	76
	K4	10+417.28	2.851	2-W250x80	160.730	145.030	154.270	15.700	0.914	68
L	L1	10+415.62	2.869	W310x158	160.649	154.649	156.650	6.000	0.914	22
	L2	10+406.93	6.163	W310x158	161.700	154.600	156.950	7.100	0.610	0
	L3	10+406.38	4.633	W310x158	160.700	154.600	156.950	6.100	0.610	0
	L4	10+406.30	3.025	W310x158	160.200	154.600	156.650	5.600	0.914	20
M	M1	10+404.62	3.041	W310x158	160.117	153.600	156.720	5.500	0.610	20
	M2	10+402.18	3.094	W310x158	159.995	153.600	156.700	5.400	0.610	18
	M3	10+399.74	3.123	W310x158	159.873	153.600	156.690	5.300	0.610	18
	M4	10+397.30	3.175	W310x158	159.751	153.600	156.670	5.200	0.610	18
N	N1	10+395.62	3.205	W310x158	159.645	154.000	156.660	5.100	0.610	18
	N2	10+393.18	3.250	W310x158	159.460	154.000	156.640	4.900	0.610	16
	N3	10+390.74	3.283	W310x158	159.276	154.000	156.630	4.700	0.610	16
	N4	10+388.30	3.328	W310x158	159.092	154.000	156.610	4.600	0.610	14
O	O1	10+386.61	3.344	W310x158	158.965	154.465	156.600	4.500	0.610	14
	O2	10+384.17	3.356	W310x158	158.780	154.480	156.580	4.300	0.610	14
	O3	10+381.73	3.356	W310x158	158.596	154.496	156.570	4.100	0.610	12
	O4	10+379.29	3.344	W310x158	158.412	154.512	156.570	3.900	0.610	12



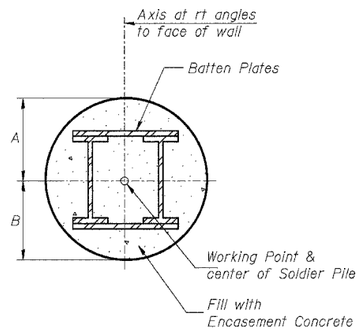
SECTION E-E

** The Contractor is Responsible for the Design and Performance of the Temporary Lagging Using No Less than a 75 mm Rough-Sawn Lagging Thickness and Minimum fb = 7 MPa.



TYPICAL CROSS SECTION

DETAIL A



SECTION D-D

Pile Size	A(m)	B(m)
2-W250 x 80	0.457	0.457
2-W310 x 107	0.534	0.534
*** W310 x 158	0.307	0.607
W310 x 158	0.305	0.305

*** For Piles L1 and L4

Notes:

Hatched area indicates "Earth Excavation." Quantity is included with roadway plans. There shall be no excavation behind the wall.

The Timber Lagging shall be installed as the "Structure Excavation" proceeds down the wall.

If additional length is required, that length shall be added to the bottom of the pile and shall be paid for at the unit price bid for Furnishing Soldier Piles, with the cost of splicing being included in the unit price and the method of splicing approved by the Engineer.

Cross hatched area indicates Structure Excavation.

Soldier pile numbering increases from north to south.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	1366	626
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

★90-11HB-5

SHEET NO. 4
20 SHEETS

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REVISIONS
NAME

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOLDIER PILES
RETAINING WALL 82
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP K-2 STATION 10+378 TO 10+507
STRUCTURE NUMBER 090-8513

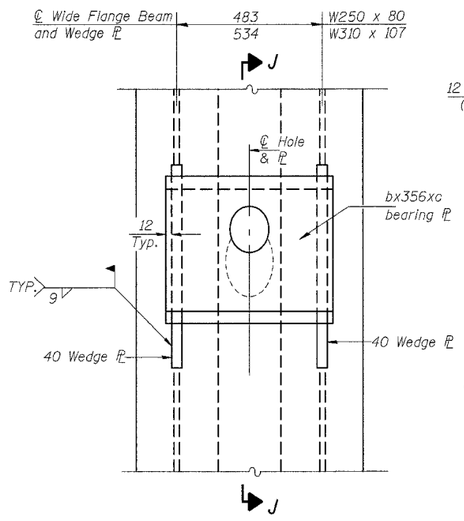
PERMANENT GROUND ANCHOR DATA

Soldier Pile Designation	Anchor Number	Anchor Head Elevation	Design Load (kN)	Inclination* Angle	**# of Prestressing Strands	Minimum Anchor Unbonded Length (m)	Estimated Anchor Bond *** Length (m)
B1	B1-1	151.362	274.7	15	3	4.3	5.2
B2	B2-1	151.567	460.0	15	3	4.3	5.2
B3	B3-1	151.993	546.3	15	4	4.3	5.2
B4	B4-1	152.500	570.0	15	4	4.3	5.2
C1	C1-1	152.500	570.0	15	4	5.5	8.3
C2	C2-1	152.902	804.3	15	6	5.5	8.3
C3	C3-1	153.237	901.7	15	6	5.5	8.3
C4	C4-1	153.660	904.5	15	6	5.5	8.3
D1	D1-1	153.660	904.5	15	6	6.0	9.1
D2	D2-1	154.276	639.1	15	5	6.0	9.1
	D2-2	150.496	674.0	15	5	4.0	5.3
D3	D3-1	154.584	670.3	15	5	6.0	9.1
	D3-2	150.714	706.5	15	5	4.0	5.3
D4	D4-1	155.000	602.0	15	5	6.0	9.1
	D4-2	151.010	634.3	15	5	4.0	5.3
E1	E1-1	155.020	600.4	15	5	5.9	10.0
	E1-2	151.020	625.6	15	5	5.3	7.5
E2	E2-1	155.509	757.3	15	6	5.9	10.0
	E2-2	151.389	800.0	15	6	5.3	7.5
E3	E3-1	155.871	791.2	15	6	5.9	10.0
	E3-2	151.671	833.0	15	6	5.3	7.5
E4	E4-1	156.410	703.7	15	5	5.9	10.0
	E4-2	152.070	747.0	15	5	5.3	7.5
F1	F1-1	156.410	703.7	15	5	9.0	12.0
	F1-2	152.070	796.0	25	5	9.0	6.5
F2	F2-1	157.650	600.3	15	5	9.0	12.0
	F2-2	154.450	682.4	25	5	9.0	6.5
	F2-3	151.250	668.2	25	5	6.0	4.5
F3	F3-1	158.080	626.2	15	5	9.0	12.0
	F3-2	154.780	718.9	25	5	9.0	6.5
	F3-3	151.480	704.0	25	5	6.0	4.5
F4	F4-1	158.640	557.0	15	4	9.0	12.0
	F4-2	155.240	603.0	25	4	9.0	6.5
	F4-3	151.840	590.5	25	4	6.0	4.5
G1	G1-1	158.640	557.0	15	4	12.0	12.0
	G1-2	155.240	603.0	15	4	5.5	10.5
	G1-3	151.840	590.5	15	4	10.0	12.0
G2	G2-1	159.141	701.5	15	5	12.0	12.0
	G2-2	155.661	752.0	15	5	5.5	10.5
	G2-3	152.181	736.0	15	5	10.0	12.0
G3	G3-1	159.770	584.8	15	4	12.0	12.0
	G3-2	157.050	580.6	15	4	5.5	10.5
	G3-3	154.330	580.6	15	4	10.0	12.0
	G3-4	151.610	568.5	15	4	10.0	8.0
G4	G4-1	160.360	516.2	15	4	12.0	12.0
	G4-2	157.560	517.4	15	4	5.5	10.5
	G4-3	154.760	517.4	15	4	10.0	12.0
	G4-4	151.960	506.6	15	4	10.0	8.0
H1	H1-1	160.960	593.2	15	5	10.0	6.0
	H1-2	159.210	720.7	25	6	5.0	7.0
	H1-3	156.700	849.3	25	6	4.5	8.0
	H1-4	154.190	849.3	25	6	9.0	8.5
	H1-5	151.680	833.2	25	6	6.0	6.5
H2	H2-1	161.420	836.7	15	6	12.0	8.5
	H2-2	159.020	912.8	15	6	9.0	8.0
	H2-3	156.620	912.8	15	6	6.0	8.75
	H2-4	154.220	938.2	20	6	14.0	8.5
	H2-5	151.820	918.7	20	6	10.0	6.0
H3	H3-1	161.308	706.0	15	6	12.0	7.0
	H3-2	159.500	829.7	15	6	9.0	8.0
	H3-3	156.850	939.7	15	6	6.0	8.75
	H3-4	154.460	916.1	20	6	14.0	8.5
	H3-5	152.070	911.7	20	6	10.0	6.0
H4	H4-1	161.170	570.9	15	5	10.0	6.0
	H4-2	159.370	677.2	25	5	5.0	7.0
	H4-3	157.000	769.7	25	5	4.5	8.0
	H4-4	154.630	771.4	25	5	9.0	8.5
	H4-5	152.250	756.9	25	5	6.0	6.5
I1	I1-1	161.170	638.7	15	5	9.0	6.25
	I1-2	158.910	686.3	15	5	6.8	6.75
	I1-3	156.650	686.3	15	5	5.0	6.75
	I1-4	154.390	705.5	20	5	4.5	11.0
	I1-5	152.130	590.8	20	5	9.0	6.0

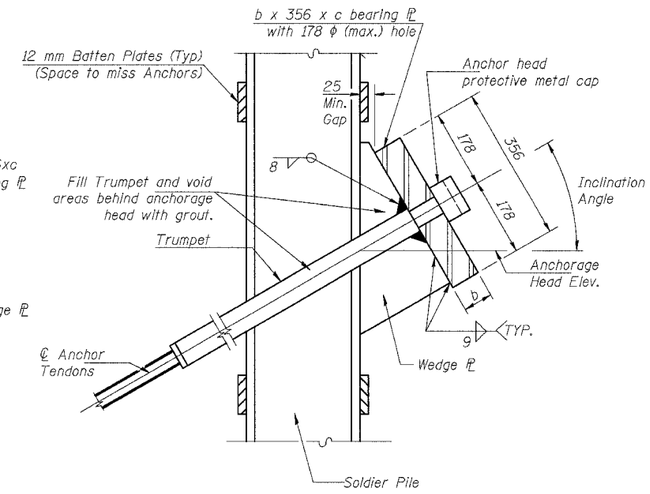
* Measured from horizontal plane.

** The prestressing steel tendon shall consist of the specified number of seven-wire strands (AASHTO M203M Grade 1860 No. 15) An alternate system using an equivalent High Strength Steel bar is allowed.

***Estimated length only. The contractor shall determine the bonded length necessary to satisfy the test load requirements. The Anchor unbonded length may need to be increased to put the Anchor banded region in a suitable soil.

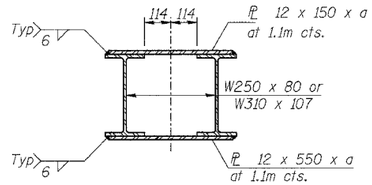


ELEVATION



SECTION J - J

ANCHOR HEAD DETAILS



SOLDIER PILE DETAIL

Cut plate in field if it interferes with rock anchor.

Notes: Anchorage Head, consisting of 2 wedge plates and a bearing plate shall be shop fabricated.

Any modifications to the details for the anchor bearing plate and wedge plates required to accomodate the anchor shall be submitted by the Contractor for the Engineer's approval. Cost included with "Permanent Ground Anchors".

Cost of furnishing, fabricating, attaching all structural steel & drilling holes in the piles is included with "Permanent Ground Anchors".

Soldier pile numbering increases from north to south.

Anchor number increases from top to bottom.

Wall reinforcement may be moved to avoid conflict with the anchor head. Maintain 1" clearance between reinforcement and anchor head.

Pile Size	a	b	c
W250 x 80	730	2 x 75	548
W310 x 107	830	2 x 75	598

REVISIONS
NAME

LIN ENGINEERING,LTD.
201 W. Chestnut (217) 483-4168
Chatham, Illinois 62629 FAX (217) 483-4706
Designed By MTH | Checked By KRG | Drawn By JMD
Date 09/02 | Files rp0405-5b090853.dgn

ILLINOIS DEPARTMENT OF TRANSPORTATION

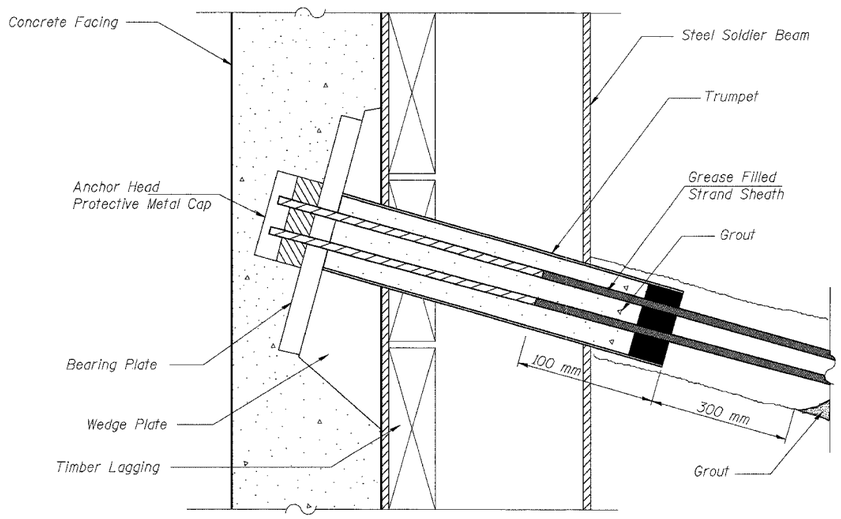
GROUND ANCHOR DETAILS
RETAINING WALL 82
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP K-2 STATION 10+378 TO 10+507
STRUCTURE NUMBER 090-8513

6820

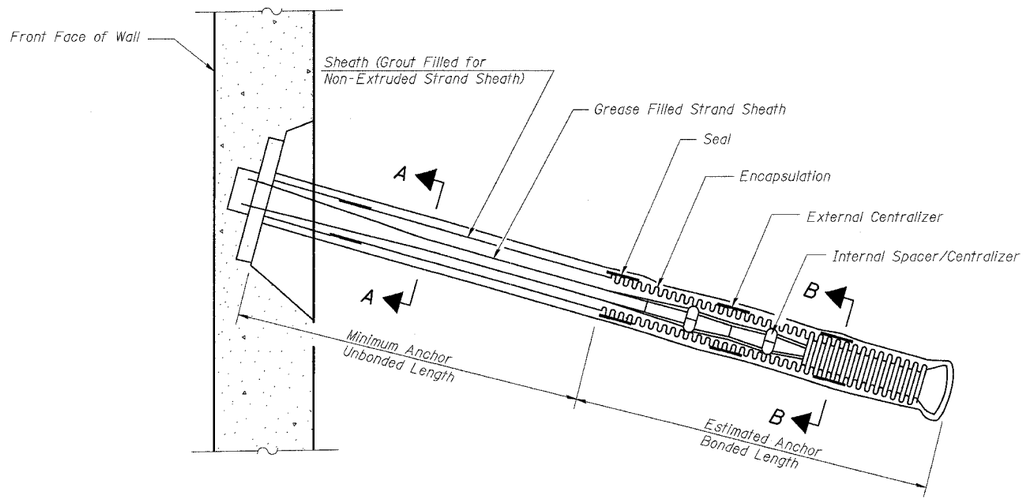
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	1360	628
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 6
20 SHEETS

★90-11HB-5



DETAIL AT ANCHORAGE HEAD



DETAIL OF CORROSION PROTECTION & TENDON DETAILS

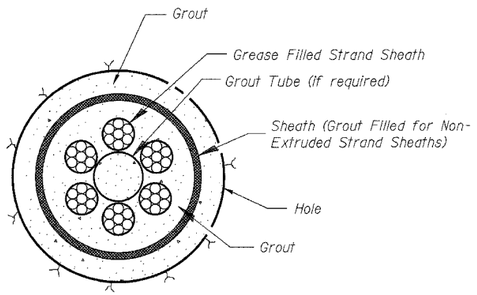
PERMANENT GROUND ANCHOR DATA

Soldier Pile Designation	Anchor Number	Anchor Head Elevation	Design Load (kN)	Inclination* Angle	**# of Prestressing Strands	Minimum Anchor Unbonded Length (m)	Estimated Anchor Bond *** Length (m)
I2	I2-1	161.082	700.0	15	5	9.0	6.25
	I2-2	158.892	761.0	15	5	6.8	6.75
	I2-3	156.702	761.0	15	5	5.0	6.75
	I2-4	154.512	762.0	20	5	4.5	11.0
	I2-5	152.322	765.7	20	5	9.0	6.0
I3	I3-1	160.968	670.0	15	5	9.0	6.25
	I3-2	158.838	721.5	15	5	6.8	6.75
	I3-3	156.708	721.5	15	5	5.0	6.75
	I3-4	154.578	741.6	20	5	4.5	11.0
	I3-5	152.448	726.2	20	5	9.0	6.0
I4	I4-1	159.980	754.7	15	5	9.0	6.25
	I4-2	157.630	673.1	15	5	6.8	6.75
	I4-3	155.280	673.1	15	5	5.0	6.75
	I4-4	152.930	677.5	20	5	4.5	11.0
J1	J1-1	160.580	652.0	15	5	7.5	11.0
	J1-2	158.080	705.6	15	5	6.0	10.0
	J1-3	155.580	705.6	15	5	4.0	12.0
	J1-4	153.080	691.0	15	5	7.0	12.0
J2	J2-1	160.000	835.0	15	6	7.5	11.0
	J2-2	157.260	900.0	25	6	6.0	10.0
	J2-3	154.520	881.0	25	6	4.0	12.0
J3	J3-1	160.230	654.5	15	5	7.5	11.0
	J3-2	157.710	742.7	25	5	6.0	10.0
	J3-3	155.190	727.3	25	5	4.0	12.0
J4	J4-1	159.840	585.2	15	4	7.5	11.0
	J4-2	156.850	667.0	25	5	6.0	10.0
K1	K1-1	159.860	585.2	15	4	4.4	9.5
	K1-2	156.860	625.2	15	4	4.5	8.75
K2	K2-1	159.659	674.6	15	5	4.4	9.5
	K2-2	156.759	703.4	15	5	4.5	8.75
K3	K3-1	159.690	593.6	15	4	6.0	9.25
	K3-2	156.940	627.3	15	4	6.0	8.75
K4	K4-1	159.740	594.8	15	4	8.0	8.5

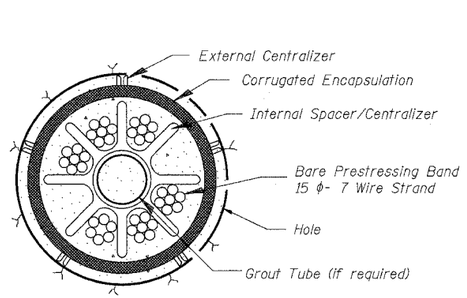
* Measured from horizontal plane.

** The prestressing steel tendon shall consist of the specified number of seven-wire strands (AASHTO M203M Grade 1860 No. 15) An alternate system using an equivalent High Strength Steel bar is allowed.

***Estimated length only. The contractor shall determine the bonded length necessary to satisfy the test load requirements. The Anchor unbonded length may need to be increased to put the Anchor bonded region in a suitable soil.



SECTION A-A



SECTION B-B

REVISIONS
NAME

LIN ENGINEERING,LTD.
210 N. Chestnut, Chatham, Illinois 62629
(217) 483-4868, FAX (217) 483-4706
Designed By: MTH | Checked By: KRG | Drawn By: JMD
Date: 09/02 | Files: rp0406-5b0908513.dgn

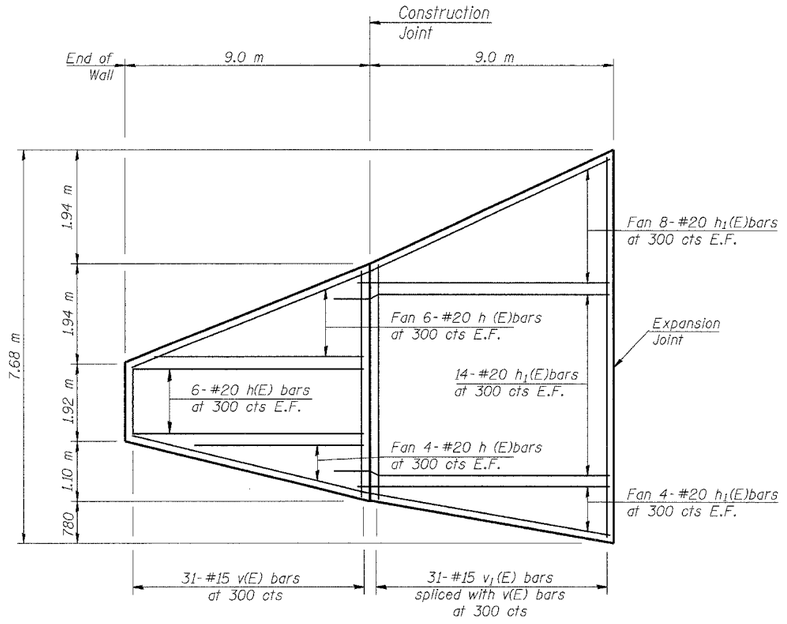
ILLINOIS DEPARTMENT OF TRANSPORTATION
GROUND ANCHOR DETAILS
RETAINING WALL 82
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP K-2 STATION 10+378 TO 10+507
STRUCTURE NUMBER 090-8513

...\Wall 82\rp0406-5b0908513.dgn 12/9/2004 7:43:45 PM

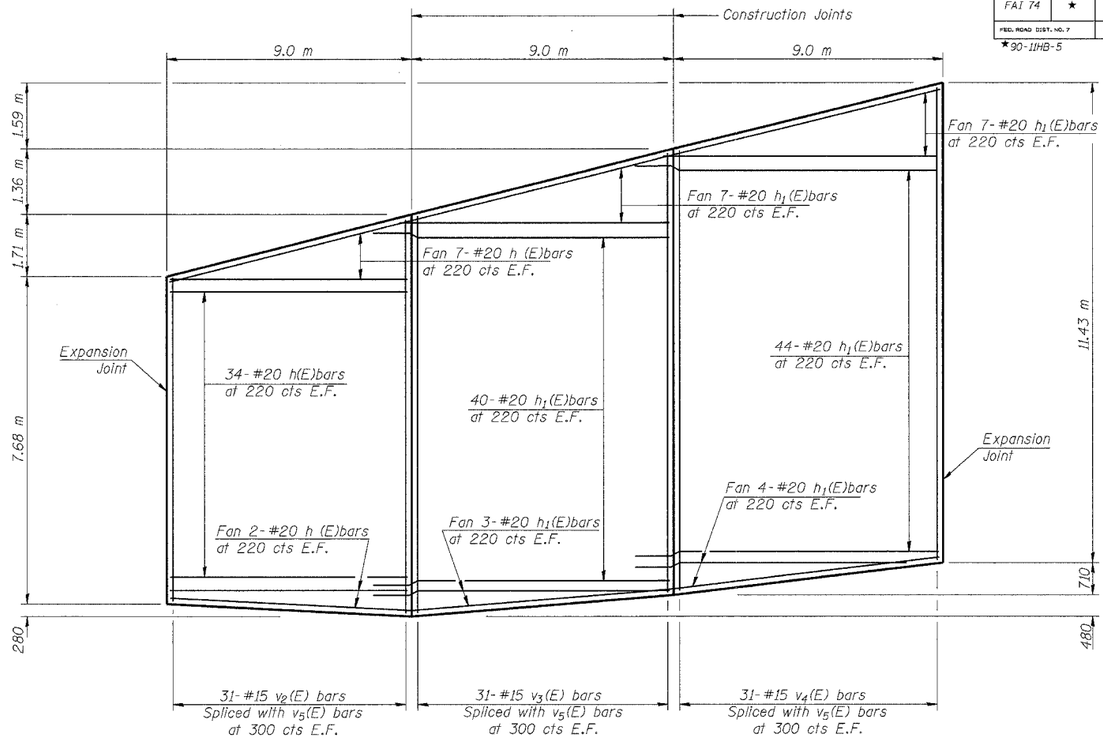
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	1366	629
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

★90-11HB-5

SHEET NO. 7
20 SHEETS



ELEVATION OF PANELS A & B
(Looking From Front of Wall)



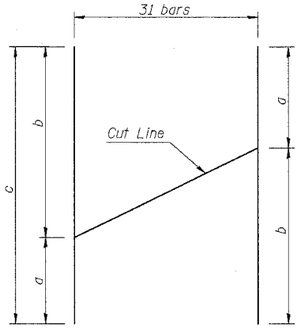
ELEVATION OF PANELS C TO E
(Looking From Front of Wall)

E.F. indicates each face.

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
h(E)	118	#20	8.92	———
$h_1(E)$	262	#20	9.79	———
v(E)	62	#15	6.63	———
$v_1(E)$	31	#15	7.05	———
$v_2(E)$	31	#15	4.39	———
$v_3(E)$	31	#15	7.26	———
$v_4(E)$	31	#15	9.02	———
$v_5(E)$	186	#15	7.00	———
Concrete Structures			m^3	132.4
Reinforcement Bars, Epoxy Coated			kg	12560

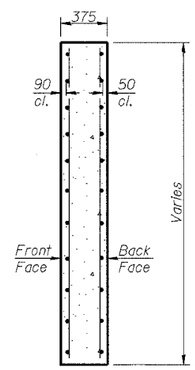
Reinforcement Bars designated (E) shall be epoxy coated.
Bars indicated thus 1 x 2- #20 etc. indicates 1 line of bars with 2 lengths per line.
The horizontal bars shall be bent at the joints to account for the nonlinear wall alignment. Cost included in "Reinforcement Bars, Epoxy Coated."



BAR CUTTING DIAGRAM v(E) BARS
(Length in meters)

Bar	a	b	c
v(E)	1.81	4.82	6.63
$v_1(E)$	3.68	3.37	7.05
$v_2(E)$	1.21	3.18	4.39
$v_3(E)$	3.19	4.07	7.26
$v_4(E)$	4.07	4.95	9.02

Note: Order bars full length. Cut bars as shown & use remainder on the other face of wall.



SECTION THRU PANEL

MIN BAR LAP
#15 Bars= 640
#20 Bars= 790

REVISIONS
NAME

LIN ENGINEERING, LTD.
210 W. Chestnut, Chatham, Illinois 62629
(217) 483-4668 FAX (217) 483-4706
Designed By: MTH | Checked By: KRG | Drawn By: JMD
Date: 09/02 | Files: rp040709GB513.dgn

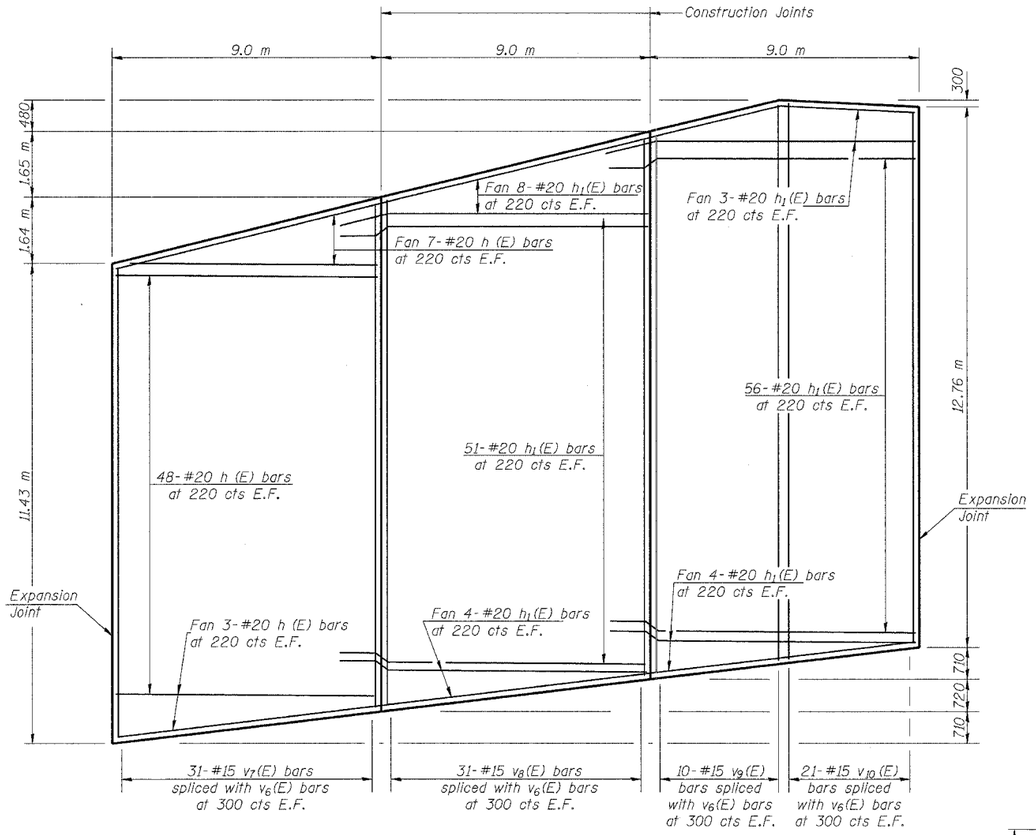
ILLINOIS DEPARTMENT OF TRANSPORTATION
CONCRETE FACING
RETAINING WALL 82
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP K-2 STATION 10+378 TO 10+507
STRUCTURE NUMBER 090-8513

68201

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	1366	630
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

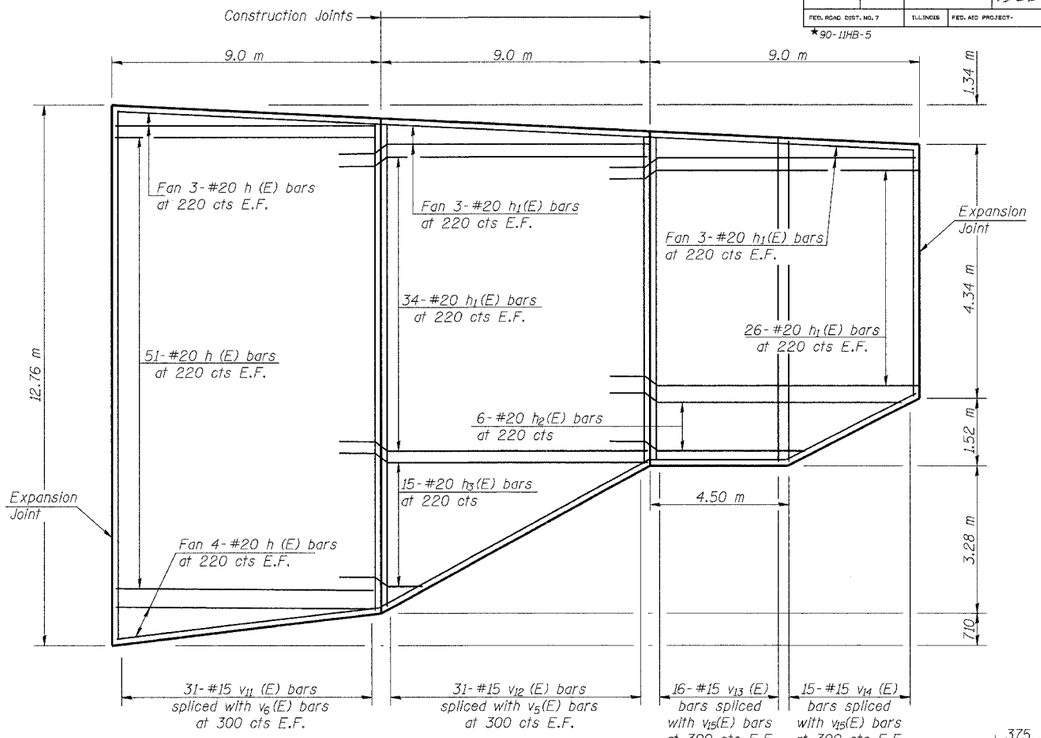
SHEET NO. 8
20 SHEETS

★90-11HB-5



ELEVATION OF PANELS F TO H

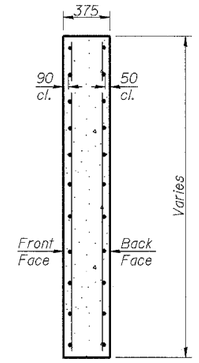
(Looking From Front of Wall)



ELEVATION OF PANELS I TO K

(Looking From Front of Wall)

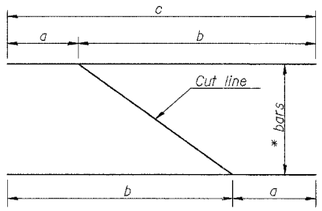
E.F. indicates each face.



SECTION THRU PANEL

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
h(E)	232	#20	8.92	——
h_1(E)	384	#20	9.79	——
h_2(E)	6	#20	14.92	——
h_3(E)	15	#20	10.31	——
v_5(E)	62	#15	7.00	——
v_6(E)	248	#15	9.00	——
v_7(E)	31	#15	6.82	——
v_8(E)	31	#15	8.68	——
v_9(E)	10	#15	9.90	——
v_{10} (E)	21	#15	9.37	——
v_{11} (E)	31	#15	7.38	——
v_{12} (E)	31	#15	6.49	——
v_{13} (E)	16	#15	6.56	——
v_{14} (E)	15	#15	4.61	——
v_{15} (E)	62	#15	5.00	——
Concrete Structures			m^3	224.8
Reinforcement Bars, Epoxy Coated			kg	21150

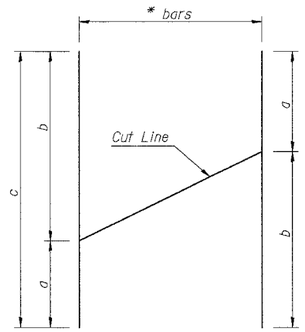


BAR CUTTING DIAGRAM h BARS

(Length in meters)

Bar	a	b	c	*
h_2(E)	5.83	9.09	14.92	6
h_3(E)	1.23	9.08	10.31	15

Reinforcement Bars designated (E) shall be epoxy coated.
Bars indicated thus 1 x 2- #20 etc. indicates 1 line of bars with 2 lengths per line.
The horizontal bars shall be bent at the joints to account for the nonlinear wall alignment. Cost included in "Reinforcement Bars, Epoxy Coated."
Note: Order bars full length. Cut bars as shown & use remainder on the other face of wall.



BAR CUTTING DIAGRAM v(E) BARS

(Length in meters)

Bar	a	b	c	*
v_7(E)	2.95	3.87	6.82	31
v_8(E)	3.88	4.80	8.68	31
v_9(E)	4.81	5.09	9.90	10
v_{10} (E)	5.09	4.28	9.37	21
v_{11} (E)	4.27	3.11	7.38	31
v_{12} (E)	5.09	1.40	6.49	31
v_{13} (E)	3.39	3.17	6.56	16
v_{14} (E)	3.17	1.44	4.61	15

MIN BAR LAP

#15 Bars= 640
#20 Bars= 790

LIN ENGINEERING, LTD.
210 W. Chestnut, Chatham, Illinois 62629
(217) 483-4168 FAX (217) 483-4706
Designed By: MTH | Checked By: KRG | Drawn By: JMO
Date: 09/02 | Files: rp0408-50C90B513.dgn

REVISIONS
NAME

ILLINOIS DEPARTMENT OF TRANSPORTATION

CONCRETE FACING RETAINING WALL 82

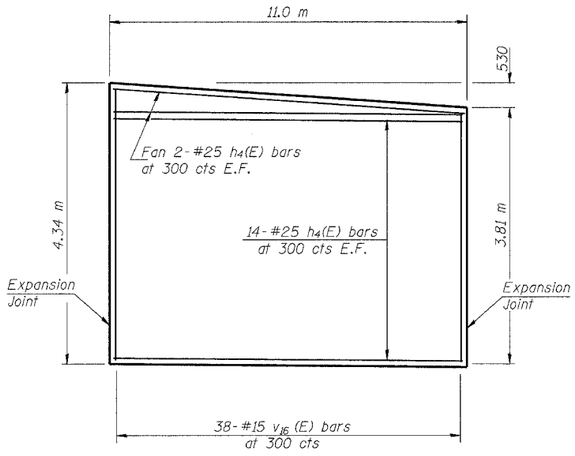
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP K-2 STATION 10+378 TO 10+507
STRUCTURE NUMBER 090-8513

...\Wall 82\rp0408-50C90B513.dgn 12/9/2004 7:44:13 PM

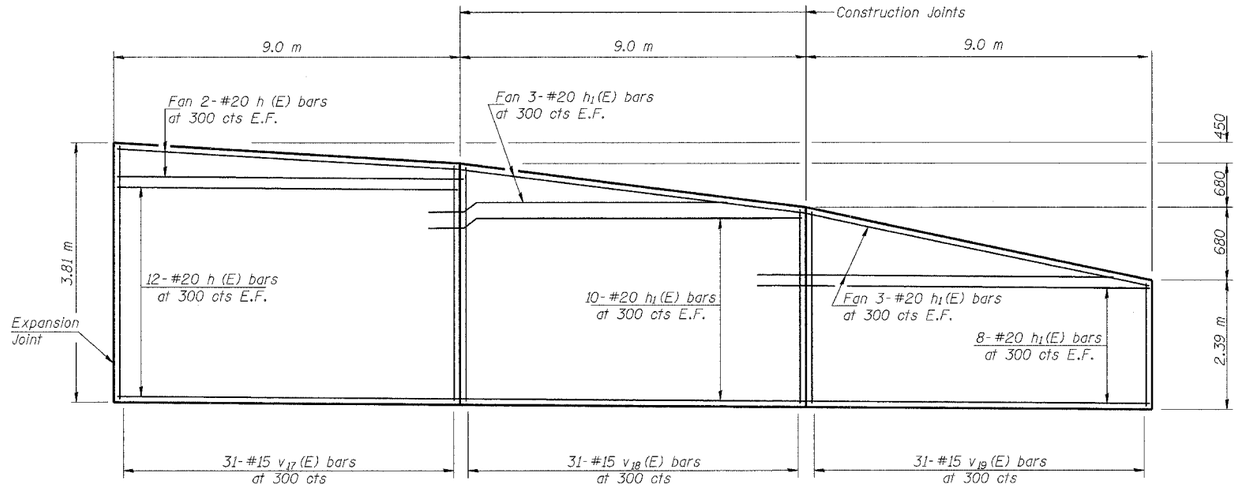
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	1366	631
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 9
20 SHEETS

★90-11HB-5



ELEVATION OF PANEL L
(Looking From Front of Wall)



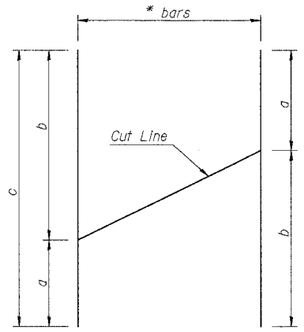
ELEVATION OF PANELS M TO O
(Looking From Front of Wall)

E.F. indicates each face.

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
h(E)	28	#20	8.92	———
h_1(E)	48	#20	9.79	———
h_4(E)	32	#25	10.92	———
v_{16}(E)	38	#15	8.35	———
v_{17}(E)	31	#15	7.49	———
v_{18}(E)	31	#15	6.48	———
v_{19}(E)	31	#15	5.24	———
Concrete Structures		m^3	50.4	
Reinforcement Bars, Epoxy Coated		kg	4500	

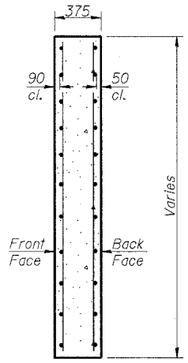
Reinforcement Bars designated (E) shall be epoxy coated.
Bars indicated thus 1 x 2- #20 etc. indicates 1 line of bars with 2 lengths per line.
The horizontal bars shall be bent at the joints to account for the nonlinear wall alignment. Cost included in "Reinforcement Bars, Epoxy Coated."



BAR CUTTING DIAGRAM v(E) BARS
(Length in meters)

Bar	a	b	c	*
v_{16} (E)	4.41	3.94	8.35	38
v_{17} (E)	3.94	3.55	7.49	31
v_{18} (E)	3.55	2.93	6.48	31
v_{19} (E)	2.93	2.31	5.24	31

Note: Order bars full length. Cut bars as shown & use remainder on the other face of wall.



SECTION THRU PANEL

MIN BAR LAP
#15 Bars= 640
#20 Bars= 790
#25 Bars= 1320

LIN ENGINEERING,LTD.
210 W. Chestnut
Chatham, Illinois 62629
(217) 483-1666
FAX (217) 483-1105

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Date: 09/02 | File: rp0409-5b0908513.dgn

REVISIONS
NAME

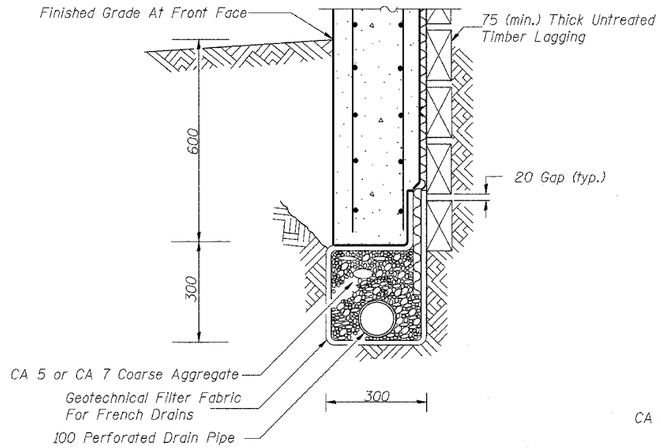
ILLINOIS DEPARTMENT OF TRANSPORTATION

CONCRETE FACING RETAINING WALL 82
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP K-2 STATION 10+378 TO 10+507
STRUCTURE NUMBER 090-8513

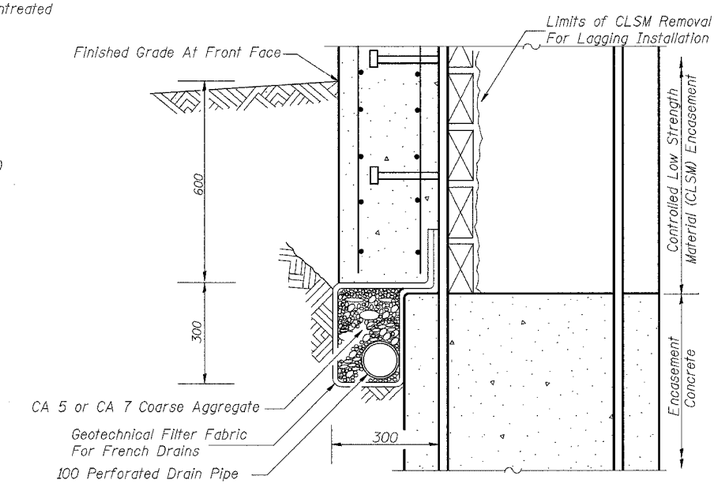
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	1366	632
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

★90-11HB-5

SHEET NO. 10
20 SHEETS



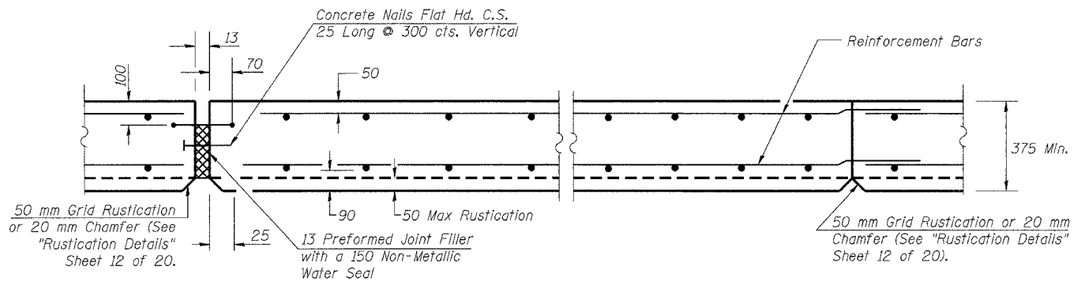
BETWEEN SOLDIER PILES



AT SOLDIER PILES

FRENCH DRAIN DETAIL

The French Drain installation shall follow Section 601 of the Standard Specifications except that the trench backfill shall consist of CA-5 or CA-7 coarse aggregate. The trench shall be lined with geotechnical fabric for French Drains and have a 100 mm diameter drain pipe located near the base of the excavation. The cost of the geotechnical fabric and drain pipe is included with the pay item French Drains.



EXPANSION JOINT

CONSTRUCTION JOINT

REVISIONS
NAME

LIN ENGINEERING,LTD.
210 N. Chestnut, Chatham, Illinois 62629
(217) 483-468, FAX (217) 483-4706
Designed By: MTH | Checked By: KRG | Drawn By: JMD
Date: 05/02 | Files: rp0410-5009085l3.dgn

ILLINOIS DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS
RETAINING WALL 82
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP K-2 STATION 10+378 TO 10+507
STRUCTURE NUMBER 090-8513

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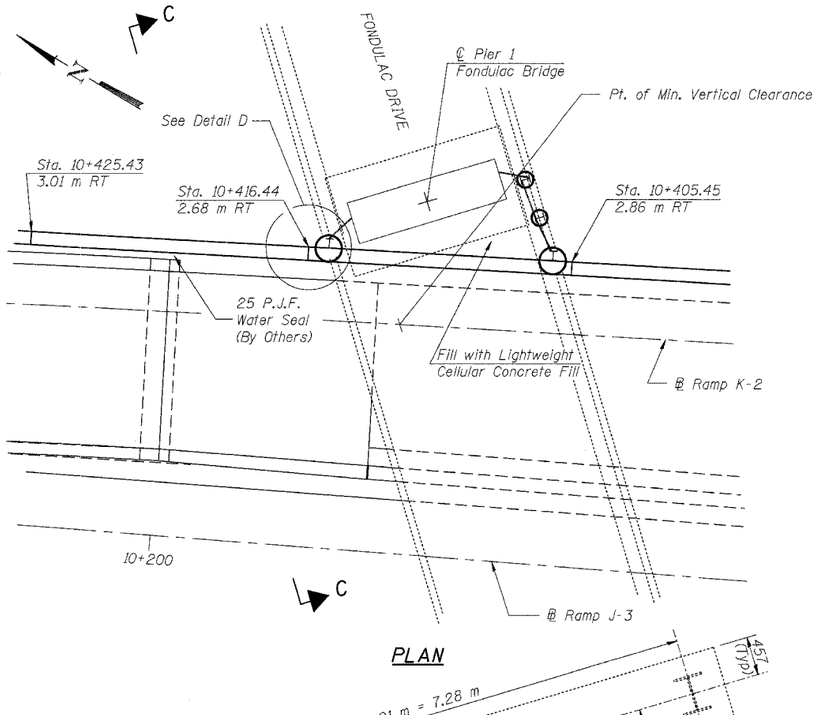
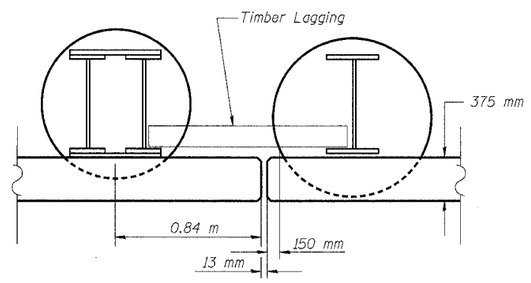
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	136	633
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 11
20 SHEETS

★90-11HB-5

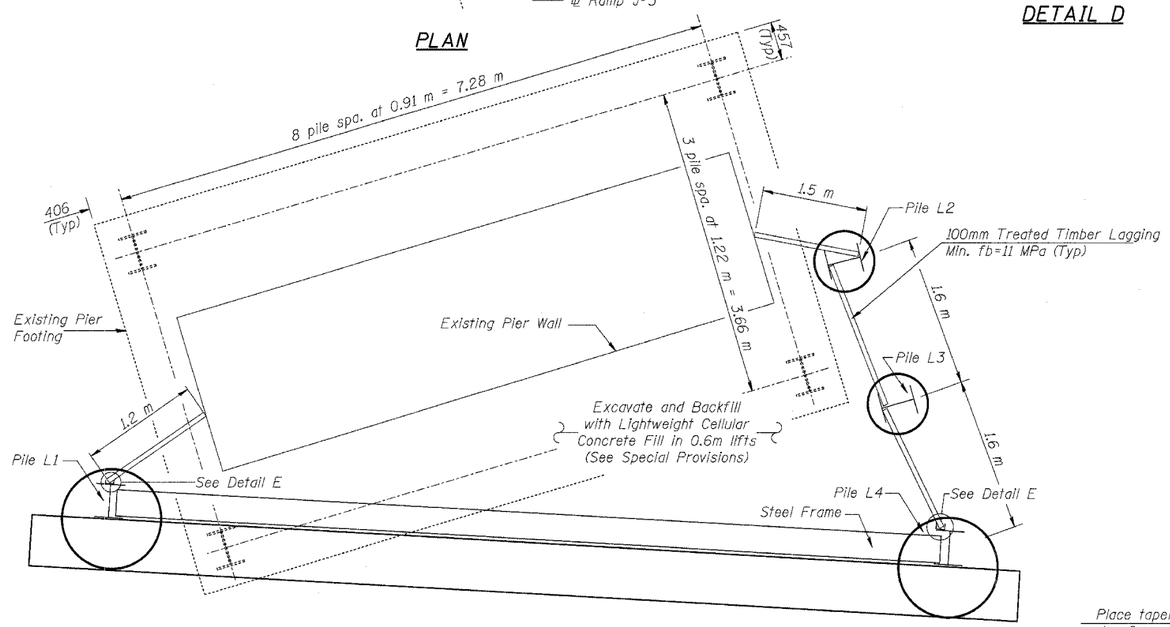


PLAN

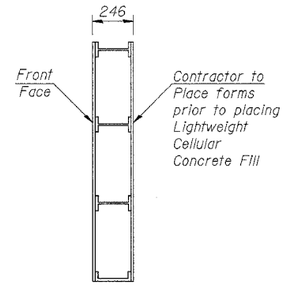


DETAIL D

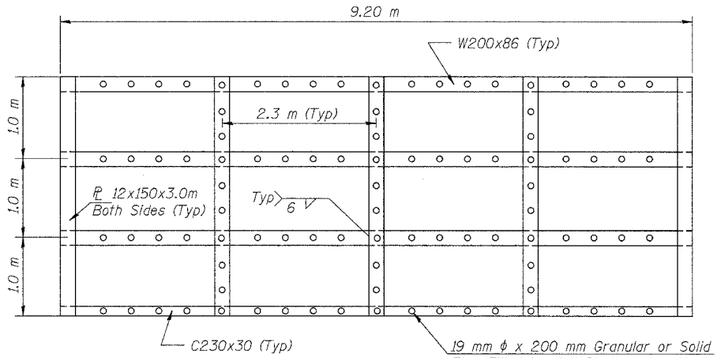
VIEW C-C



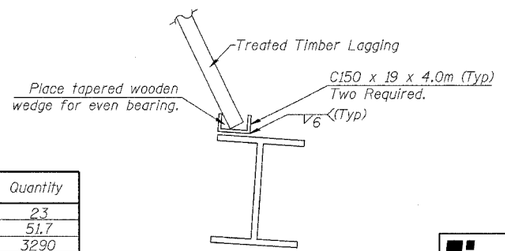
PLAN VIEW
(Panel L)



SECTION
THRU FRAME



STEEL FRAME SPANNING
BETWEEN PILES L1 & L4



DETAIL E

SEQUENCE OF CONSTRUCTION

1. Drill and set soldier piles L1 thru L4.
2. Place treated timber lagging as shown while excavating on west side of pier.
3. Place steel frame between piles L1 and L4 and provide formwork on east face.
4. Backfill with Low Weight Material (See Special Provisions).
5. Place shear connectors and cast concrete panels.

BILL OF MATERIAL

Item	Unit	Quantity
Treated Timber Lagging	m^2	23
Lightweight Cellular Concrete Fill	m^3	51.7
Structural Steel	kg	3290
Stud Shear Connectors	Each	94

LIN ENGINEERING,LTD.
310 W. Chestnut
(217) 483-4168
Chatham, Illinois 62629
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Date: 09/02	File: rp0411-5b090513.dgn	

REVISIONS
NAME

ILLINOIS DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS
RETAINING WALL 82
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP K-2 STATION 10+378 TO 10+507
STRUCTURE NUMBER 090-8513

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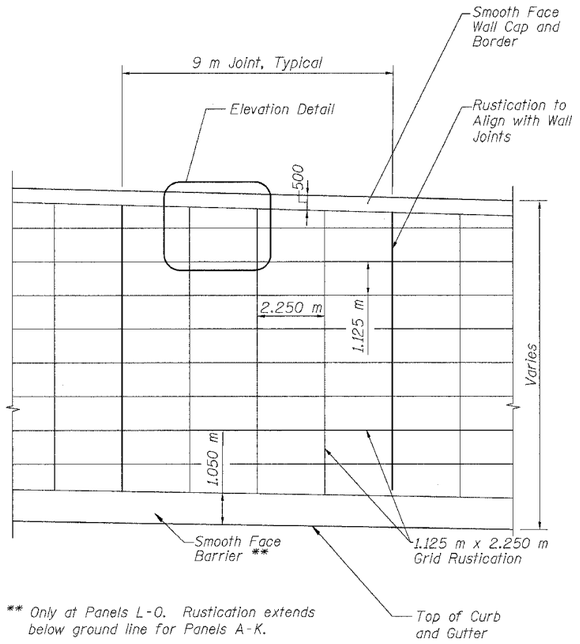
68201

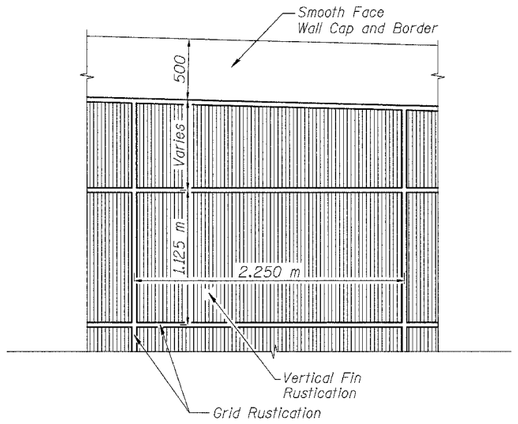
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	1366	634
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 12
20 SHEETS

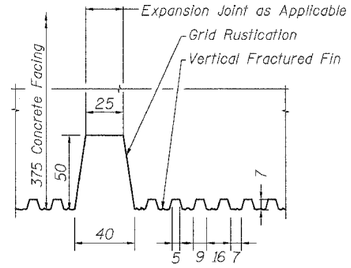
★90-11HB-5



** Only at Panels L-O. Rustication extends below ground line for Panels A-K.



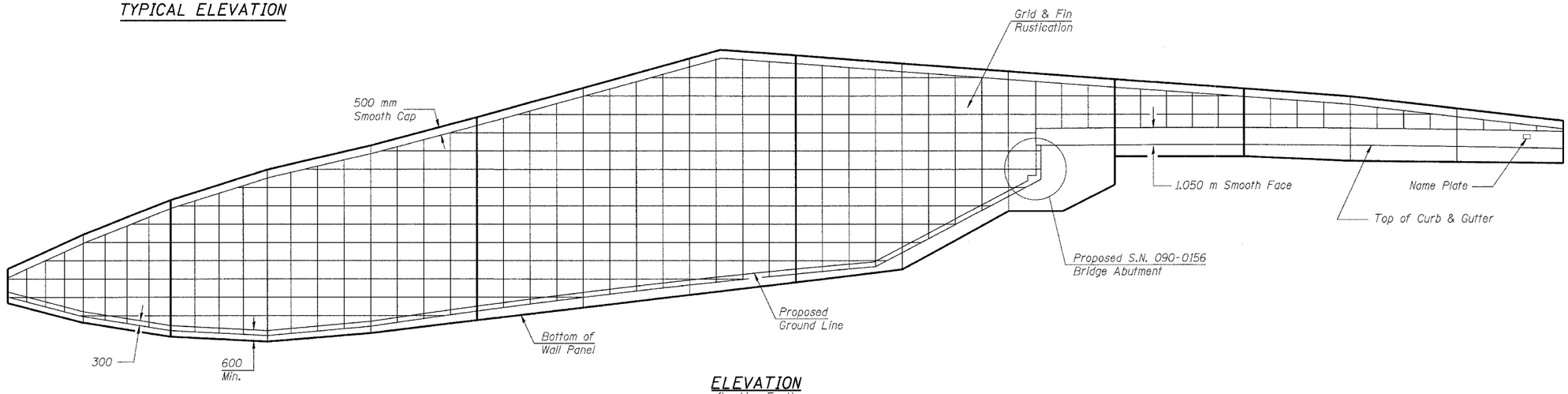
ELEVATION DETAIL



*Dimensions subject to minor variations within the group of approved formliners.

GRID AND FIN RUSTICATION DETAIL

TYPICAL ELEVATION



ELEVATION
(Looking East)

BILL OF MATERIAL

Item	Unit	Quantity
Form Liner Grid and Fin Surface	m²	907.0

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Date: 09/02 | File: rp0412-52c908513.dgn

REVISIONS
NAME

ILLINOIS DEPARTMENT OF TRANSPORTATION

RUSTICATION DETAILS
RETAINING WALL 82
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP K-2 STATION 10+378 TO 10+507
STRUCTURE NUMBER 090-8513

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	*	TAZEWELL	1366	635
FED. ROAD DIST. NO. 7		STATE	FED. AID PROJECT	

SHEET NO. 13
20 SHEETS

*90-11HB-5

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. SB-239

PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION BRIDGE NO. 090-0160 (STRUCTURE) RAMP K-2BL 10+495.1 (STATION) 6.8mR (OFFSET) PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 4-5-96 COMPLETED 4-8-96 SURFACE ELEVATION 152.02

DRILLED BY S. SCOTT — LOGGED BY M. DENAULT/S. ARENDS

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	4-8	DRY	-
AAR	4-8	7.0	0
-	4-9	7.0	1d

DRILLING METHOD: RIG TYPE CME-850; AUGER TYPE-DEPTH 0.08m HSA-3.8m; CASING TYPE-DEPTH -; SAMPLER TYPE AU-SS-NX

Elev / Depth	CLASSIFICATION	N Bp0.15m	Q_u KPa	W %	γ_d Kgpm³
151.84	TOPSOIL FILL: BR, DK BR & YEL BR LOAM, A-4	AU	-	7	-
		AU	-	1	-
		AU	-	10	-
	BR SANDY LOAM, A-4	AU	-	12	-
		9 12 21	-	6	-
		16 27 27	-	5	-
148.67	BR SAND, A-3	16 12 10	-	2	-
148.02	BR GRAVELLY SAND, A-1-b COAL FRAGMENTS	6 7 10	-	5	-
147.14	GR WEAKLY CEMENTED SANDSTONE	100/ 0.13m	-	9	-
146.69	BR CEMENTED SANDSTONE	NX	REC = 100% RQD = 100%		
146.29	GR CEMENTED SANDSTONE	NX	REC = 100% RQD = 100%		
145.41	BLK & DK YEL BR COAL VOID	NX	REC = 100% RQD = 0%		

Elev / Depth	CLASSIFICATION	N Bp0.15m	Q_u KPa	W %	γ_d Kgpm³
	BLK & DK YEL BR COAL VOID	NX	REC = 100% RQD = 0%		
143.88	DK GR TO GR LAMINATED CLAY SHALE	NX	REC = 100% RQD = 100%		
143.46	BLK COAL VOID	NX	REC = 100% RQD = 0%		
143.00	DK GR TO GR LAMINATED CLAY SHALE	NX	REC = 100% RQD = 48%		
142.36	GR, DK GR & GRN GR MASSIVE CLAY SHALE	NX	REC = 100% RQD = 100%		
141.90	LT GRN TO GR MASSIVE CLAY SHALE	NX	REC = 100% RQD = 0%		
		100/ 0.13m	-	9	-
		100/ 0.15m	-	12	-
		39 64/ 0.10m	-	14	-

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. SB-239 (CONT.)

PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION BRIDGE NO. 090-0160 (STRUCTURE) RAMP K-2BL 10+495.1 (STATION) 6.8mR (OFFSET) PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 4-5-96 COMPLETED 4-8-96 SURFACE ELEVATION 152.02

DRILLED BY S. SCOTT — LOGGED BY M. DENAULT/S. ARENDS

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	4-8	DRY	-
AAR	4-8	7.0	0
-	4-9	7.0	1d

DRILLING METHOD: RIG TYPE CME-850; AUGER TYPE-DEPTH 0.08m HSA-3.8m; CASING TYPE-DEPTH -; SAMPLER TYPE AU-SS-NX

Elev / Depth	CLASSIFICATION	N Bp0.15m	Q_u KPa	W %	γ_d Kgpm³
	LT GRN TO GR MASSIVE CLAY SHALE	100/ 0.15m	-	12	-
138.61	END OF BORING				

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. SB-251

PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION BACKSLOPE (STRUCTURE) RAMP K-2BL 10+483.1 (STATION) 23.6mR (OFFSET) PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 3-8-96 COMPLETED 3-8-96 SURFACE ELEVATION 159.98

DRILLED BY S. SCOTT — LOGGED BY M. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	3-8	14.3	-
DC	3-8	9.4	0
-	3-9	DRY	6d

DRILLING METHOD: RIG TYPE CME-850; AUGER TYPE-DEPTH 0.08m HSA-16.0m; CASING TYPE-DEPTH -; SAMPLER TYPE AU-SS

Elev / Depth	CLASSIFICATION	N Bp0.15m	Q_u KPa	W %	γ_d Kgpm³
	TOPSOIL FILL: DK BR SILTY LOAM, A-4	AU	-	11	-
159.43	BR SANDY LOAM, A-4	7 12 15	-	10	-
158.76	BR GRAVELLY SAND, A-1-b	8 12 13	-	3	-
158.00	BR SAND, A-3	8 12 19	-	4	-
157.24	BR SILT, A-4	17 22 17	-	22	-
156.47	BR SAND, A-3	5 10 14	-	4	-
		8 9 11	-	4	-
		7 12 13	-	3	-
154.19	BR SILTY LOAM, A-4	18 27 26	525	15	-
		10 15 12	460	13	-

Elev / Depth	CLASSIFICATION	N Bp0.15m	Q_u KPa	W %	γ_d Kgpm³
	BR SILTY LOAM, A-4	7 11 15	-	15	-
152.66	BR SANDY LOAM, A-4	11 13 13	-	14	-
			-	7	-
151.45	BR SAND, A-3	10 13 14	-	2	-
150.99	BR GRAVELLY SAND, A-1-b	11 14 12	-	3	-
150.38	BR SAND, A-3	7 9 12	-	3	-
		11 12 88/0.08m	-	3	-
148.40	DK GR TO GR WEAKLY CEMENTED SANDSTONE	92 8/0.08m	-	8	-
		100/ 0.03m	-	9	-

REVISIONS

NAME	

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210 W. Chestnut, Chatham, Illinois 62629
(217) 483-4468 FAX (217) 483-4706
Designed By: MTH | Checked By: KRG | Drawn By: JMD
Date: 09/02 | File: rp0413-5b0908513.dgn

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING DATA
RETAINING WALL 82
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP K-2 STATION 10+378 TO 10+507
STRUCTURE NUMBER 090-8513

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	*	TAZEWELL	1366	636
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT=		

SHEET NO. 14
20 SHEETS

*90-11HB-5

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. BB-251 (CONT.)
PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR
LOCATION BACKSLOPE (STRUCTURE) RAMP K-2BL 10+483.1 23.6mR (STATION / OFFSET) PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)
DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY
DATE OF DRILLING: STARTED 3-8-96 COMPLETED 3-8-96 SURFACE ELEVATION 159.98
DRILLED BY S. SCOTT — LOGGED BY M. DENAULT

CLASSIFICATION (Elev / Depth)	N Bp0.15m	Qu KPa	W %	'd Kgpm³
DK GR TO GR WEAKLY CEMENTED SANDSTONE				
146.72 LT GR, GR & BR WEAKLY CEMENTED TO CEMENTED SANDSTONE	10	-	10	-
146.32 BLK & DK YEL BR COAL (VOID)	5 2	-	18	-
	9 20 65	-	30	-
145.11 DK GR TO GR LAMINATED CLAY SHALE	39 61/0.03m	-	13	-
	150/0.10m	-	14	-
144.28 GR, DK GR & GRN GR MASSIVE CLAY SHALE		-	9	-
144.01 END OF BORING				

GROUNDWATER DATA	DATE	DEPTH	HOUR
DD	3-8	14.3	-
DC	3-8	9.4	0
-	3-9	DRY	6d

DRILLING METHOD
RIG TYPE CME-850
AUGER TYPE-DEPTH 0.08m HSA-16.0m
CASING TYPE-DEPTH -
SAMPLER TYPE AU-SS

CLASSIFICATION (Elev / Depth)	N Bp0.15m	Qu KPa	W %	'd Kgpm³

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. SB-243
PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR
LOCATION RETAINING WALL NO. 82 (STRUCTURE) RAMP K-2BL 10+476.3 5.2mR (STATION / OFFSET) PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)
DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY
DATE OF DRILLING: STARTED 4-4-96 COMPLETED 4-5-96 SURFACE ELEVATION 156.76
DRILLED BY S. SCOTT — LOGGED BY M. DENAULT

CLASSIFICATION (Elev / Depth)	N Bp0.15m	Qu KPa	W %	'd Kgpm³
TOPSOIL FILL: DK BR SILTY LOAM, A-4	AU	-	13	-
156.55 BR SILT, A-4	AU	-	12	-
	AU	-	10	-
	12 13 18	-	5	-
154.32 BR SAND, A-3	3 5 7	-	4	-
	4 4 7	-	3	-
152.80 BR SANDY LOAM, A-4	6 10 12	-	13	-
	14 21 36	-	16	-
	6 10 12	-	12	-
150.51 BR SAND, A-3	14 18 24	-	2	-

GROUNDWATER DATA	DATE	DEPTH	HOUR
DD	4-4	DRY	-
DC	4-4	5.2	0
DC	4-5	5.4	1d

DRILLING METHOD
RIG TYPE CME-850
AUGER TYPE-DEPTH 0.08m HSA-10.3m
CASING TYPE-DEPTH -
SAMPLER TYPE AU-SS

CLASSIFICATION (Elev / Depth)	N Bp0.15m	Qu KPa	W %	'd Kgpm³
BR SAND, A-3	12 16 19	-	3	-
148.99 BR TO BR & GR WEAKLY CEMENTED SANDSTONE	16 44 56/0.08m	-	8	-
148.08 DK GR TO GR CEMENTED SANDSTONE	100/0.10m	-	8	-
147.36 LT GR, GR & BR WEAKLY CEMENTED TO CEMENTED SANDSTONE	100/0m	-	-	-
	100/0.05m	-	10	-
146.49 END OF BORING				

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. SB-303
PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR
LOCATION RETAINING WALL NO. 82 (STRUCTURE) RAMP K-2BL 10+474.8 5.2mR (STATION / OFFSET) PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)
DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY
DATE OF DRILLING: STARTED 4-5-96 COMPLETED 4-5-96 SURFACE ELEVATION 155.62
DRILLED BY S. SCOTT — LOGGED BY M. DENAULT

CLASSIFICATION (Elev / Depth)	N Bp0.15m	Qu KPa	W %	'd Kgpm³
PROBE				
148.30 BR TO BR & GR WEAKLY CEMENTED SANDSTONE	NX			
148.15 DK GR TO GR CEMENTED SANDSTONE	NX			
147.45 LT GR, GR & BR WEAKLY CEMENTED TO CEMENTED SANDSTONE	NX			
146.69 BLK & DK YEL BR COAL	NX			
145.26 DK GR TO GR LAMINATED CLAY SHALE	NX			
144.65 GR, DK GR & GRN GR MASSIVE CLAY SHALE	NX			

GROUNDWATER DATA	DATE	DEPTH	HOUR
-	4-5	10.4	0
DC	4-8	8.4	3d
-	-	-	-

DRILLING METHOD
RIG TYPE CME-850
AUGER TYPE-DEPTH 0.08m HSA-7.3m
CASING TYPE-DEPTH -
SAMPLER TYPE NX

CLASSIFICATION (Elev / Depth)	N Bp0.15m	Qu KPa	W %	'd Kgpm³	
PROBE					
148.30 BR TO BR & GR WEAKLY CEMENTED SANDSTONE	NX	REC = 100% RQD = 100%			
148.15 DK GR TO GR CEMENTED SANDSTONE	NX	REC = 100% RQD = 100%			
147.45 LT GR, GR & BR WEAKLY CEMENTED TO CEMENTED SANDSTONE	NX	REC = 100% RQD = 100%			
146.69 BLK & DK YEL BR COAL	NX	REC = 76% RQD = 0%			
145.26 DK GR TO GR LAMINATED CLAY SHALE	NX	REC = 100% RQD = 42%			
144.65 GR, DK GR & GRN GR MASSIVE CLAY SHALE	NX	REC = 83% RQD = 26%			

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Date: 09/02 | File: 120414-SB090813.dgn

REVISIONS	
NAME	

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL BORING DATA
RETAINING WALL 82
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP K-2 STATION 10+378 TO 10+507
STRUCTURE NUMBER 090-8513

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	*	TAZEWELL	1366	637
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT:	

*90-11HB-5

SHEET NO. 15
20 SHEETS

CLAUDE H. HURLEY COMPANY — BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. SB-303 (CONT.)
PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR
LOCATION RETAINING WALL NO. 82 (STRUCTURE) RAMP K-2BL 10+474.8 (STATION) 5.2mR (OFFSET) — PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)
DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY
DATE OF DRILLING: STARTED 4-5-96 COMPLETED 4-5-96 SURFACE ELEVATION 155.62
DRILLED BY S. SCOTT — LOGGED BY M. DEHAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
-	4-5	10.4	0
DC	4-8	8.4	3d
-	-	-	-

DRILLING METHOD: RIG TYPE CME-850; AUGER TYPE-DEPTH 0.08m HSA-7.3m; CASING TYPE-DEPTH -; SAMPLER TYPE NX

Elev / Depth	CLASSIFICATION	N Bp0.15m	Q_u KPa	W %	γ_d Kgpm^3
155.62 / 0	GR, DK GR & GRN GR MASSIVE CLAY SHALE				
143.21 / 12.41	END OF BORING				

CLAUDE H. HURLEY COMPANY — BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. BB-252
PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR
LOCATION BACKSLOPE (STRUCTURE) RAMP K-2BL 10+452.0 (STATION) 22.3mR (OFFSET) — PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)
DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY
DATE OF DRILLING: STARTED 4-3-96 COMPLETED 4-3-96 SURFACE ELEVATION 167.86
DRILLED BY S. SCOTT — LOGGED BY M. DEHAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	4-3	10.5	-
DC	4-3	11.4	0
WC	4-4	11.0	1d

DRILLING METHOD: RIG TYPE CME-850; AUGER TYPE-DEPTH 0.08m HSA-20.1m; CASING TYPE-DEPTH -; SAMPLER TYPE AU-SS

Elev / Depth	CLASSIFICATION	N Bp0.15m	Q_u KPa	W %	γ_d Kgpm^3
167.71 / 0	TOPSOIL FILL: DK BR SILTY LOAM, A-4	AU	-	15	-
		AU	-	14	-
	BR SILTY LOAM, A-4	AU	-	14	-
166.48 / 1.23		3 5 4	400	11	-
	BR & GR SILTY LOAM, A-4	7 12 14	910	10	-
		8 13 13	880	13	-
164.35 / 3.36		6 10 12	765	14	-
	GR, BR, BR GR & GR CLAY LOAM, A-4	5 13 15	1015	11	-
		4 8 13	605	13	-
		5 7 12	460	12	-
		4 6 9	355	13	-

Elev / Depth	CLASSIFICATION	N Bp0.15m	Q_u KPa	W %	γ_d Kgpm^3
	GR BR, BR GR & GR CLAY LOAM, A-4	7 11 16	950	11	-
159.78 / 8.08	BR & RD BR SAND, A-3	8 13 10	-	7	-
159.02 / 8.84	BR & GR GRAVELLY LOAM, A-4	9 11 11	-	3	-
158.26 / 9.60	BR SAND, A-3	8 10 13	-	5	-
157.50 / 10.36	LT BR TO BR SILT, A-4	12 13 15	-	25	-
156.73 / 11.13	BR & RD BR GRAVELLY SAND, A-1-b	13 18 16	-	8	-
		10 13 18	-	4	-
		11 9 11	-	4	-

CLAUDE H. HURLEY COMPANY — BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. BB-252 (CONT.)
PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR
LOCATION BACKSLOPE (STRUCTURE) RAMP K-2BL 10+452.0 22.3mR (STATION OFFSET) — PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)
DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY
DATE OF DRILLING: STARTED 4-3-96 COMPLETED 4-3-96 SURFACE ELEVATION 167.86
DRILLED BY S. SCOTT — LOGGED BY M. DEHAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	4-3	10.5	-
DC	4-3	11.4	0
WC	4-4	11.0	1d

DRILLING METHOD: RIG TYPE CME-850; AUGER TYPE-DEPTH 0.08m HSA-20.1m; CASING TYPE-DEPTH -; SAMPLER TYPE AU-SS

Elev / Depth	CLASSIFICATION	N Bp0.15m	Q_u KPa	W %	γ_d Kgpm^3
167.71 / 0	BR & RD BR GRAVELLY SAND, A-1-b				
154.45 / 13.26		10 9 9	-	3	-
	BR SAND, A-3	5 7 9	-	5	-
153.08 / 14.63		4 4 4	480	15	-
	BR & RD BR LOAM, A-4	6 6 9	385	11	-
		7 6 8	335	14	-
150.49 / 17.22		7 9 10	-	6	-
	BR SAND, A-3	9 8 7	-	7	-
		5 5 6	-	1	-
		4 4 7	-	5	-

Elev / Depth	CLASSIFICATION	N Bp0.15m	Q_u KPa	W %	γ_d Kgpm^3
147.59 / 20.08	BR GRAVELLY SAND, A-1-b	5 9 7	-	11	-
146.98 / 20.69	END OF BORING				

LIN ENGINEERING,LTD.
210 W. Chestnut, Chatham, Illinois 62629
(217) 483-6616, FAX (217) 483-6706
Designed By: MTH | Checked By: KRG | Drawn By: JMD
Date: 09/02 | File: rp0415-5b090813.dgn

REVISIONS	
NAME	

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING DATA
RETAINING WALL 82
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP K-2 STATION 10+378 TO 10+507
STRUCTURE NUMBER 090-8513

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	*	TAZEWELL	1366	638
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 16
20 SHEETS

*90-11HB-5

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. RB-244

PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION RETAINING WALL NO. 82 (STRUCTURE) RAMP K-2BL 10+458.0 (STATION) 3.5mR (OFFSET) — PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 4-2-96 COMPLETED 4-2-96 SURFACE ELEVATION 158.90

DRILLED BY S. SCOTT — LOGGED BY N. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	4-2	[illegible]	-
DC	4-2	[illegible]	0
DC	4-3	10.[illegible]	1d

DRILLING METHOD: RIG TYPE CME-850; AUGER TYPE-DEPTH 0.08m HSA-16.0m; CASING TYPE-DEPTH -; SAMPLER TYPE AD-SS

Elev	CLASSIFICATION	Depth	N Bp0.15m	Qu KPa	W %	Yd Kgpm³
	TOPSOIL FILL: DK BR SILTY LOAM, A-6		AU	-	41	-
158.84	ROOTS					
	BR & RD BR SILTY LOAM, A-4		AU	-	15	-
158.29			2 3 2	-	4	-
	BR & RD BR SAND, A-3 ROOTS					
156.92			3 2 2	-	4	-
			10 15 25	-	8	-
	LT BR TO BR SILT, A-4					
			9 12 14	-	14	-
154.63						
	BR & RD BR GRAVELLY SAND, A-1-b		7 7 7	-	20	-
			6 5 6	-	3	-
153.75						
	BR SAND, A-3		5 6 9	-	3	-
			6 5 8	-	5	-
152.35						
	BR & RD BR LOAM, A-4		16 16 19	490	13	-

Elev	CLASSIFICATION	Depth	N Bp0.15m	Qu KPa	W %	Yd Kgpm³
	BR & RD BR LOAM, A-4		11 9 10	335	13	-
			8 10 13	430	13	-
			8 9 11	385	15	-
149.43						
	BR LOAM, A-4		8 7 8	-	11	-
			8 10 12	-	12	-
147.62						
	DK GR TO GR CEMENTED SANDSTONE		19 34 37	-	11	-
147.01						
	LT GR, GR & BR WEAKLY CEMENTED TO CEMENTED SANDSTONE		80 20/ 0.03m	-	9	-
146.25						
	DK GR TO GR LAMINATED CLAY SHALE		11 13 80	-	12	-

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. RB-244 (CONT.)

PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION RETAINING WALL NO. 82 (STRUCTURE) RAMP K-2BL 10+458.0 (STATION) 3.5mR (OFFSET) — PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 4-2-96 COMPLETED 4-2-96 SURFACE ELEVATION 158.90

DRILLED BY S. SCOTT — LOGGED BY N. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	4-2	4.0	-
DC	4-2	10.9	0
DC	4-3	10.7	1d

DRILLING METHOD: RIG TYPE CME-850; AUGER TYPE-DEPTH 0.08m HSA-16.0m; CASING TYPE-DEPTH -; SAMPLER TYPE AD-SS

Elev	CLASSIFICATION	Depth	N Bp0.15m	Qu KPa	W %	Yd Kgpm³
	DK GR TO GR LAMINATED CLAY SHALE					
164.94			100/ 0.03m	-	14	-
	GR, DK GR & GRN GR MASSIVE CLAY SHALE		100/ 0.13m	-	9	-
			100/ 0.05m	-	8	-
			100/ 0.15m	-	9	-
142.90	END OF BORING					

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. RB-245

PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION RETAINING WALL NO. 82 (STRUCTURE) RAMP K-2BL 10+440.9 (STATION) 2.9mR (OFFSET) — PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 4-2-96 COMPLETED 4-2-96 SURFACE ELEVATION 161.97

DRILLED BY S. SCOTT — LOGGED BY N. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	4-2	6.6	-
DC	4-2	14.0	0
DC	4-3	13.9	1d

DRILLING METHOD: RIG TYPE CME-850; AUGER TYPE-DEPTH 0.08m HSA-18.0m; CASING TYPE-DEPTH -; SAMPLER TYPE AD-SS

Elev	CLASSIFICATION	Depth	N Bp0.15m	Qu KPa	W %	Yd Kgpm³
	TOPSOIL FILL: DK BR SILTY LOAM, A-6		AU	-	27	-
161.82						
			AU	430	9	-
	GR BR, BR GR & GR CLAY LOAM, A-4		AU	430	10	-
			12 13 15	440	12	-
			9 14 17	440	12	-
158.62						
	BR & GR GRAVELLY LOAM, A-4		11 26 28	-	2	-
157.86						
	LT BR TO BR SILT, A-4		14 10 11	-	5	-
			9 15 14	-	13	-
			11 12 14	-	14	-
155.38						
	BR & RD BR GRAVELLY SAND, A-1-b		11 15 14	-	5	-

Elev	CLASSIFICATION	Depth	N Bp0.15m	Qu KPa	W %	Yd Kgpm³
154.81						
	BR & RD BR GRAVELLY SAND, A-1-b		19 18 10	-	10	-
			7 9 12	-	3	-
152.52						
	BR & RD BR LOAM, A-4		7 12 13	-	4	-
			0 0 0	-	11	-
			0 0 0 0	-	11	0
			0 0 0 0	-	12	-
			2 3 3	145	13	-
149.11			3 3 6	-	12	-
	BR LOAM, A-4					

LIN ENGINEERING, LTD.
210 W. Chestnut, Chatham, Illinois 62629
(217) 483-4468 FAX (217) 483-4706
Designed By MTH | Checked By KRG | Drawn By JMD
Date 09/02 | File: 12C436-5b090813.dgn

REVISIONS	
NAME	

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING DATA
RETAINING WALL 82
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP K-2 STATION 10+378 TO 10+507
STRUCTURE NUMBER 090-8513

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	*	TAZEWELL	1366	639
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT=	

SHEET NO. 17
20 SHEETS

*90-11HB-5

CLAUDE H. HURLEY COMPANY

BORING LOG

BORING NO. RB-245 (CONT.)

PROJECT NO. 3-380-D4

PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION RETAINING WALL NO. 82 RAMP K-2BL 10+440.9 2.9mR (STRUCTURE / STATION / OFFSET) PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 4-2-96 COMPLETED 4-2-96 SURFACE ELEVATION 161.97

DRILLED BY S. SCOTT LOGGED BY N. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	4-2	6.6	-
DC	4-2	14.0	0
DC	4-3	13.9	1d

DRILLING METHOD

RIG TYPE CME-850
AUGER TYPE-DEPTH 0.08m HSA-18.0m
CASING TYPE-DEPTH -
SAMPLER TYPE AU-SS

Elev	CLASSIFICATION	Depth	N Bp0.15m	Qu KPa	W %	γd Kgpm³
	BR LOAM, A-4		2 2 3	-	14	-
148.41	BR SAND, A-3	14		-	45	-
147.95	LT GR, GR & BR WEAKLY CEMENTED TO CEMENTED SANDSTONE		11 17 30	-	14	-
		15	46 39	-	11	-
166.73	BLK COAL		20	-	16	-
166.58	DK GR TO GR LAMINATED CLAY SHALE		11 34 66/0.08m	-	15	-
		16	100/ 0.15m	-	10	-
145.05	GR, DK GR & GRN GR MASSIVE CLAY SHALE	17	100/ 0.13m	-	10	-
			100/ 0.03m	-	5	-
143.96	END OF BORING	18				
		19				
		20				
		21				
		22				
		23				
		24				
		25				
		26				

CLAUDE H. HURLEY COMPANY

BORING LOG

BORING NO. SB-240

PROJECT NO. 3-380-D4

PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION BRIDGE NO. 090-0156 RAMP K-2BL 10+426.4 2.6mR (STRUCTURE / STATION / OFFSET) PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 3-29-96 COMPLETED 4-2-96 SURFACE ELEVATION 161.33

DRILLED BY B. WULF/S. SCOTT LOGGED BY N. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	3-29	5.7	-
WC	4-2	14.6	0
WC	4-3	14.6	1d

DRILLING METHOD

RIG TYPE CME-850
AUGER TYPE-DEPTH 0.08m HSA-14.5m
CASING TYPE-DEPTH -
SAMPLER TYPE AU-SS-HX

Elev	CLASSIFICATION	Depth	N Bp0.15m	Qu KPa	W %	γd Kgpm³
	TOPSOIL FILL:. DK BR SILTY LOAM, A-6		AU	-	17	-
161.09	GR BR, BR GR & GR CLAY LOAM, A-4		AU	430	15	-
		1	AU	430	13	-
			3 4 4	335	14	-
		2	6 10 12	430	14	-
			6 17 15	430	13	-
157.73	BR & RD BR SILTY LOAM, A-4	3	8 22 25	335 765	14 13	- -
157.28	LT BR TO BR SILT, A-4	4	10 15 20	-	8	-
		5	17 16 13	-	18	-
		6	8 10 10	-	26	-
154.99	BR SAND, A-3	7	8 9 10	-	3	-
153.47	BR SAND, A-3	8	9 11 15	-	4	-
	BR & RD BR LOAM, A-4	9	8 8 12	295	15	-
			7 11 11	400	13	-
		10	8 7 11	335	13	-
151.13	BR & RD BR SILTY LOAM, A-4		9 8 10	-	19	-
150.45	BR & GR SAND, A-3	11	2 3 5	-	3	-
		12	5 8 7	-	4	-
148.89	SHALE SEAM		23 13 19	-	11	-
	BR & GR WEAKLY CEMENTED SANDSTONE	13				

CLAUDE H. HURLEY COMPANY

BORING LOG

BORING NO. SB-240 (CONT.)

PROJECT NO. 3-380-D4

PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION BRIDGE NO. 090-0156 RAMP K-2BL 10+426.4 2.6mR (STRUCTURE / STATION / OFFSET) PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 3-29-96 COMPLETED 4-2-96 SURFACE ELEVATION 161.33

DRILLED BY B. WULF/S. SCOTT LOGGED BY N. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	3-29	5.7	-
WC	4-2	14.6	0
WC	4-3	14.6	1d

DRILLING METHOD

RIG TYPE CME-850
AUGER TYPE-DEPTH 0.08m HSA-14.5m
CASING TYPE-DEPTH -
SAMPLER TYPE AU-SS-HX

Elev	CLASSIFICATION	Depth	N Bp0.15m	Qu KPa	W %	γd Kgpm³
	BR & GR WEAKLY CEMENTED SANDSTONE					
168.13	BLK COAL (VOID)		23 45 50	-	27	-
		14	6 12 70	-	27	-
166.46	DK GR TO GR LAMINATED CLAY SHALE	15		-	14	-
			NX	REC = 100% RQD = 42%		
		16	NX	REC = 100% RQD = 54%		
164.63	GR, DK GR & GRN GR MASSIVE CLAY SHALE	17	NX	REC = 100% RQD = 91%		
163.77	GR LAMINATED CLAY SHALE	18	NX	REC = 100% RQD = 40%		
			NX	REC = 5% RQD = 0%		
		19	NX	REC = 100% RQD = 37%		
161.73	END OF BORING	20				
		21				
		22				
		23				
		24				
		25				
		26				

LIN ENGINEERING,LTD.
291 N. Chestnut, Chatham, Illinois 62629
(217) 483-4168 FAX (217) 483-4706
Designed By: MTH | Checked By: KRC | Drawn By: JMD
Date: 05/02 | Files: rp0417-5b090813.dgn

REVISIONS	
NAME	

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING DATA
RETAINING WALL 82
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP K-2 STATION 10+378 TO 10+507
STRUCTURE NUMBER 090-8513

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	*	TAZEWELL	1366	640
FED. ROAD DIST. NO. ?		STATE	FED. AID PROJECT*	

SHEET NO. 18
20 SHEETS

*90-11HB-5

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. BB-253

PROJECT FAI-34 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION BACKSLOPE (STRUCTURE) RAMP K-2BL (STATION) 10+423.5 17.3mR (OFFSET) — PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 4-3-96 COMPLETED 4-3-96 SURFACE ELEVATION 171.97

DRILLED BY S. SCOTT — LOGGED BY M. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	4-3	8.7	-
WC	4-3	17.9	0
WC	4-4	18.0	16

DRILLING METHOD: RIG TYPE CME-850; AUGER TYPE-DEPTH 0.08m HSA-25.3m; CASING TYPE-DEPTH -; SAMPLER TYPE AU-SS

Elev / Depth	CLASSIFICATION	N Bp0.15m	Qu KPa	W %	Yd Kgpm³
171.88	TOPSOIL FILL: DK BR SILTY LOAM, A-6	AU	-	19	-
170.20	GR BR CLAY LOAM, A-4	AU	-	14	-
		AU	-	11	-
		AU	-	8	-
		AU	-	8	-
		5 7 14	410	13	-
		8 14 18	930	8	-
		9 12 13	900	11	-
		6 7 8	585	12	-
166.70	GR BR, BR GR & GR CLAY LOAM, A-4	3 5 7	365	12	-
		2 5 6	345	12	-
		2	-	-	-
		3 5	280	13	-
		3 5 6	285	16	-
		4 6 10	365	14	-
		8 10 10	615	12	-
		3 5 5	500	13	-
		3 5 7	450	14	-
		3 6 9	375	14	-
		3 4 7	335	14	-
158.77	BR GRAVELLY SAND, A-1-b	10	420	13	-

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. BB-253 (CONT.)

PROJECT FAI-34 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION BACKSLOPE (STRUCTURE) RAMP K-2BL (STATION) 10+423.5 17.3mR (OFFSET) — PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 4-3-96 COMPLETED 4-3-96 SURFACE ELEVATION 171.97

DRILLED BY S. SCOTT — LOGGED BY M. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	4-3	8.7	-
WC	4-3	17.9	0
WC	4-4	18.0	16

DRILLING METHOD: RIG TYPE CME-850; AUGER TYPE-DEPTH 0.08m HSA-25.3m; CASING TYPE-DEPTH -; SAMPLER TYPE AU-SS

Elev / Depth	CLASSIFICATION	N Bp0.15m	Qu KPa	W %	Yd Kgpm³
	BR GRAVELLY SAND, A-1-b	12 12	-	6	-
157.86	BR, RD BR SILTY LOAM, A-4	12 13 12	615	13	-
	COBBLES	47 50/ 0.03m	-	12	-
156.94	LT BR TO BR SILT, A-4	11 17 17	-	20	-
155.72	BR GRAVELLY SAND, A-1-b	18 17 15	-	18 6	-
154.50	BR SAND, A-3	13 12 13	-	5	-
		16 16 20	-	3	-
152.98	BR SILTY LOAM, A-4	10 15 17	-	3	-
152.22	BR & RD BR LOAM, A-4	13 16 20	545	14	-
		13 14 15	510	13	-
	BR & RD BR LOAM, A-4	16 18 21	510	14	-
149.93	BR & GR SAND, A-3	15 18 21	575	11	-
148.10	ER & GR WEAKLY CEMENTED SANDSTONE	17 20 28	-	3	-
147.04	BLK COAL	26 74/ 0.10m	-	12	-
146.67	END OF BORING	100/ 0.13m	-	11	-
		100/ 0.05m	-	18	-

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. BB-255

PROJECT FAI-34 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION BACKSLOPE (STRUCTURE) RAMP K-2BL (STATION) 10+419.3 46.0mR (OFFSET) — PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR D & G DRILLING COMPANY

DATE OF DRILLING: STARTED 3-27-96 COMPLETED 3-27-96 SURFACE ELEVATION 182.7

DRILLED BY J. KOZIYEK — LOGGED BY S. ARENDS

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	3-27	DRY	-
AAR	3-27	3.1	0
-	3-28	3.0	16

DRILLING METHOD: RIG TYPE MOBILE B-57; AUGER TYPE-DEPTH RH-12.2m; CASING TYPE-DEPTH -; SAMPLER TYPE AU-SS

Elev / Depth	CLASSIFICATION	N Bp0.15m	Qu KPa	W %	Yd Kgpm³
183.20	TOPSOIL FILL: DK BR SILTY LOAM, A-4	AU	-	19	-
	BR SILTY LOAM, A-4	6 6 7	335	13	-
181.82	BR GR SILTY LOAM, A-4	6 10 13	565	14	-
		6 10 14	535	14	-
		6 8 10	575	14	-
		10 12 13	345	15	-
		10 14 12	315	17	-
178.78	GR BR CLAY LOAM, A-4	5 7 9	315	14	-
		6 9 11	305	14	-
		6 9 11	315	14	-
	GR BR CLAY LOAM, A-4	6 8 13	365	14	-
		7 9 15	365	14	-
		6 9 14	620	13	-
		8 10 22	595	12	-
173.75	GR GRAVELLY SAND, A-1-b W/ CLAY, A-6 SEAMS	15 14 17	-	12	-
172.53	GR SILTY LOAM, A-4	15 13 13	615	12	-
171.92	BR SILT, A-4 W/ CLAY A-6 SEAMS	20 20 22	-	14	-
171.31	END OF BORING				

LIN ENGINEERING, LTD.
210 W. Chestnut, Chatham, Illinois 62629
(217) 483-4968, FAX (217) 483-4706
Designed By: MTH | Checked By: KRG | Drawn By: JMO
Date: 09/02 | Files: rp0418-5b090813.dgn

REVISIONS	
NAME	

ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING DATA
RETAINING WALL 82
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP K-2 STATION 10+378 TO 10+507
STRUCTURE NUMBER 090-8513

...\wall 82\rp0418-5b090813.dgn 12/10/2004 7:52:04 AM

68201

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	*	TAZEWELL	1366	641
FED. ROAD DIST. NO. 9	ILLINOIS	FED. AID PROJECT=		

SHEET NO. 19
20 SHEETS

*90-11HB-5

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-04 BORING NO. RR-254

PROJECT FAI-34 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION BACKSLOPE (STRUCTURE) RAMP K-2BL 10+393.1 (STATION) 17.6mR (OFFSET) PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 3-27-96 COMPLETED 3-27-96 SURFACE ELEVATION 167.99

DRILLED BY B. WULF LOGGED BY M. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	3-27	11.9	-
DC	3-27	13.8	0
DC	3-28	9.9	1d

DRILLING METHOD
RIG TYPE CME-850
AUGER TYPE-DEPTH 0.08m HSA-22.0m
CASING TYPE-DEPTH -
SAMPLER TYPE AU-SS

Elev	Depth	CLASSIFICATION	N Bp0.15m	Q_u KPa	W %	γ_d Kgpm³
		TOPSOIL FILL: DK BR SILTY LOAM, A-4	AU	-	28	-
167.90		BR SILTY LOAM, A-4	AU	-	14	-
167.26	1		AU	-	10	-
	2	GR BR CLAY LOAM, A-4	AU	-	17	-
			4 5 8	-	12	-
	3		20 26 31	-	10	-
164.52						
	4	GR BR; BR GR & GR CLAY LOAM, A-4	7 12 12	480	11	-
	5		6 7 9	345	13	-
			7 8 11	295	14	-
	6		8 9 13	335	14	-
	7		7 11 21	430	13	-

Elev	Depth	CLASSIFICATION	N Bp0.15m	Q_u KPa	W %	γ_d Kgpm³
	8	GR BR, BR GR & GR CLAY LOAM, A-4	12 14 26	775	13	-
159.94		BR, GR & BR SILTY CLAY LOAM, A-4	14 26 24	975	12	-
159.18	9		23 28 24	-	3	-
	10	BR SAND, A-3 TO A-1-b	10 15 20	-	2	-
	11		11 17 22	-	4	-
156.90		BR SAND, A-3	11 15 15	-	8	-
156.13	12	BR SILT, A-4	7 21 19	-	25	-
155.83		BR SAND, A-3		-	5	-
	13		17 26 27	-	4	-

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-04 BORING NO. RR-254 (CONT.)

PROJECT FAI-34 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION BACKSLOPE (STRUCTURE) RAMP K-2BL 10+393.1 (STATION) 17.6mR (OFFSET) PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 3-27-96 COMPLETED 3-27-96 SURFACE ELEVATION 167.99

DRILLED BY B. WULF LOGGED BY M. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	3-27	11.9	-
DC	3-27	13.8	0
DC	3-28	9.9	1d

DRILLING METHOD
RIG TYPE CME-850
AUGER TYPE-DEPTH 0.08m HSA-22.0m
CASING TYPE-DEPTH -
SAMPLER TYPE AU-SS

Elev	Depth	CLASSIFICATION	N Bp0.15m	Q_u KPa	W %	γ_d Kgpm³
		BR SAND, A-3	11 14 16	-	6	-
153.85	14					
		BR & RD BR LOAM, A-4 W/ SAND, A-3 SEAMS	11 16 22	-	15	-
153.09	15	BR & RD BR SILTY LOAM, A-4 W/ SILT, A-4 & SAND, A-3 SEAMS	12 14 16	-	13	-
152.32	16		16 21 22	-	3	-
		BR & RD BR GRAVELLY SAND, A-1-b				
	17		16 21 23	-	3	-
150.34		BR SILT, A-4	14 25 27	- -	3 22	- -
149.88	18	BR & GR SAND, A-3	12 17 18	-	4	-
	19		12 21 19	-	3	-
148.39		BLK COAL	100/ 0.13m	-	13	-
	20					

Elev	Depth	CLASSIFICATION	N Bp0.15m	Q_u KPa	W %	γ_d Kgpm³
		BLK COAL	100/ 0.08m	-	16	-
147.19	21	DK GR TO GR LAMINATED CLAY SHALE	100/ 0.13m	-	9	-
145.99	22	END OF BORING	100/ 0.08m	-	6	-
	23					
	24					
	25					
	26					

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-04 BORING NO. RR-247

PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION RETAINING WALL NO. 82 RAMP K-2BL 10+381.3 (STRUCTURE) 2.8mR (STATION) (OFFSET) PEORIA & TAZEWELL COUNTIES, ILLINOIS (STATE)

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 3-6-96 COMPLETED 3-6-96 SURFACE ELEVATION 158.26

DRILLED BY S. SCOTT LOGGED BY M. DENAULT

GROUNDWATER DATA

	DATE	DEPTH	HOUR
DD	3-6	11.3	-
DC	3-6	8.4	0
DC	3-7	8.1	1d

DRILLING METHOD
RIG TYPE CME-850
AUGER TYPE-DEPTH 0.08m HSA-13.8m
CASING TYPE-DEPTH -
SAMPLER TYPE AU-SS

Elev	Depth	CLASSIFICATION	N Bp0.15m	Q_u KPa	W %	γ_d Kgpm³
		ACCESS FILL: DK GR, GR & GR BR SILTY LOAM, A-4	AU	-	21	-
158.17		GR BR, BR GR & GR SILTY LOAM, A-4	AU	-	13	-
	1		5 5 11	-	13 14	-
157.33		BR SILTY LOAM, A-4				
157.04		BR STRATIFIED SILT, A-4 AND SILTY CLAY, A-6	18 23 22	-	18 4	-
156.58		BR & GR GRAVELLY LOAM, A-4				
156.28	2	BR & RD BR GRAVELLY SAND, A-1-b	12 12 17	-	4	-
156.52						
	3	BR SAND, A-3	12 13 20	-	2	-
	4		10 12 12	-	3	-
153.99		BR & RD BR LOAM, A-4 W/ SAND A-3 SEAMS	13 14 20	-	15	-
153.23	5	BR & RD BR SANDY LOAM, A-2-4	12 13 14	-	9	-
	6		15 20 22	-	4	-
151.71		BR & RD BR TO GR GRAVELLY SAND, A-1-b	15 17 19	-	5	-
	7					

Elev	Depth	CLASSIFICATION	N Bp0.15m	Q_u KPa	W %	γ_d Kgpm³
150.94		BR & GR SAND, A-3	17 13 23	-	2	-
	8		15 21 36	-	2	-
148.66		BR & GR GRAVELLY SAND, A-1-b	15 23 28	-	4	-
147.85	10	BR & RD BR SAND, A-3	12 17 22	-	5	-
	11		13 19	-	17	-
146.74		DK GR TO GR LAMINATED CLAY SHALE	50/ 0.10m	-	16	-
146.40	12	GR & DK GR LIMESTONE	XX/0m	-	-	-
145.92		GR, DK GR & GRN GR MASSIVE CLAY SHALE	80 110	-	15	-
	13					

LIN ENGINEERING,LTD.
210 W. Chestnut, Chatham, Illinois 62629
(217) 483-4666 FAX (217) 483-4706
Designed By: MTH | Checked By: KRG | Drawn By: JMD
Date: 09/02 | File: 1p2419-5b090813.dgn

REVISIONS	
NAME	

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL BORING DATA
RETAINING WALL 82
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP K-2 STATION 10+378 TO 10+507
STRUCTURE NUMBER 090-8513

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68201

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	TAZEWELL	1366	642
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT★		

SHEET NO. 20
20 SHEETS

★90-11HB-5

CLAUDE H. HURLEY COMPANY

BORING LOG

PROJECT NO. 3-380-D4 — BORING NO. RB-247 (CONT.)

PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION RETAINING WALL NO. 82 RAMP K-2SL 10+381.3 2.8mR — PEORIA & TAZEWELL COUNTIES, ILLINOIS
STRUCTURE STATION OFFSET STATE

DRILLING CONTRACTOR CENTRAL ILLINOIS DRILLING COMPANY

DATE OF DRILLING: STARTED 3-6-96 COMPLETED 3-6-96 SURFACE ELEVATION 158.26

DRILLED BY S. SCOTT — LOGGED BY M. DENAULT

CLASSIFICATION	Elev	Depth	N Bp0.15m	Q_u KPa	W %	γ_d Kgpm³
GR, DK GR & GRN GR MASSIVE CLAY SHALE			25 100/ 0.10m	-	15	-
144.45 END OF BORING		14				
		15				
		16				
		17				
		18				
		19				
		20				
		21				
		22				
		23				
		24				
		25				
		26				

GROUNDWATER DATA	DATE	DEPTH	HOUR
DD	3-6	11.3	-
DC	3-6	8.4	0
DC	3-7	8.1	16

DRILLING METHOD
RIG TYPE CME-850
AUGER TYPE-DEPTH 0.08m HSA-13.8m
CASING TYPE-DEPTH -
SAMPLER TYPE AU-SS

RSV ENGINEERING, INC. — SCHAUMBURG, ILLINOIS

BORING LOG

JOB NO: 98600 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION — BORING NO: RWK2-2
PROJECT: Interstate Route 74 Improvements - Peoria, Illinois — STATION: 10+333
LOCATION: Retaining Wall Ramp K-2 SN 090-8513 — OFFSET: 2.0m Rt
BORING RIG & METHOD: CME-75 w/Hollow Stem Augers — SURF ELEV: 156.07

SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLES FROM - TO	REC. mm	BLOWS/ 150mm	q_u kPa	STRAIN %	WATER CONTENT %
Possible FILL: Br Clay Loam A-6; roots and random Silt seams noted	153.15		0.00-0.30		Auger			16
			0.30-0.76	457	6 13-16	431 +*		15
Medium Dense Br Silt A-4	154.85		1.07-1.52	457	10 11-12			2
Medium Dense Br Sand A-3	153.63		1.83-2.29	457	9 10-12			2
Very Stiff Br Clay Loam A-6	152.11		2.59-3.05	457	6 11-15	326	15	15
			3.35-3.81	457	7 7-14	287	15	12
Medium Dense Br Sandy Loam A-2-4	151.34		4.11-4.57	457	10 13-15			9
Medium Dense Br Sand A-1-b	149.82	5	4.88-5.33	457	10 9-10			4
			5.64-6.10	457	7 7-10			3
Medium Dense Br Sand A-3	147.32		6.40-6.86	457	7 9-16			2
			7.16-7.62	457	7 8-12			3
			7.92-8.38	457	6 7-9			1
Dense Br Sand A-1-b	148.77		8.69-9.14	457	10 13-18			9
Black COAL (thinly foliated)	146.16		9.45-9.91	457	27 23-13			19
Medium Stiff Gr Clay A-7-6, (possible filled void); wood fragments noted	145.55	10	10.21-10.67	457	1 11-16	48*		30
Gr Clayey SHALE (slightly to moderately lithified); Limestone fragments noted at 13.7m			10.97-11.03	51	100/ 50mm			25
			11.73-11.77	25	100/ 25mm			6

REMARKS — * Denotes Calibrated Penetrometer Estimate

WATER	Dry m	ELEV.	DURING DRILLING	▽ CORE SIZE	mm	DATE:	Jun 20, 00
WATER	m	ELEV.	AT COMPLETION	▼ CASING LENGTH	m	DRILLER:	Fehl
WATER	Dry m	ELEV.	AFTER 14 HRS.	▽ CASING DIAMETER	mm	INSPECTOR:	Reed

RSV ENGINEERING, INC. — SCHAUMBURG, ILLINOIS

BORING LOG

JOB NO: 98600 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION — BORING NO: RWK2-2
PROJECT: Interstate Route 74 Improvements - Peoria, Illinois — STATION: 10+333
LOCATION: Retaining Wall Ramp K-2 SN 090-8513 — OFFSET: 2.0m Rt
BORING RIG & METHOD: CME-75 w/Hollow Stem Augers — SURF ELEV: 156.07

SOIL DESCRIPTION	ELEV.	DEPTH	SAMPLES FROM - TO	REC. mm	BLOWS/ 150mm	q_u kPa	STRAIN %	WATER CONTENT %
			12.53-12.77	254	28-100/ 100mm	479	10	13
			13.26-13.59	330	32-64 36/25			11
Gr Clayey SHALE (slightly to moderately lithified); Limestone fragments noted at 13.7m			14.02-14.39	356	28-68 32/50	594	15	13
	140.83	15	14.94-15.24	305	50-112/ 150mm			8

Boring terminated at 15.2m

REMARKS — * Denotes Calibrated Penetrometer Estimate

WATER	Dry m	ELEV.	DURING DRILLING	▽ CORE SIZE	mm	DATE:	Jun 20, 00
WATER	m	ELEV.	AT COMPLETION	▼ CASING LENGTH	m	DRILLER:	Fehl
WATER	Dry m	ELEV.	AFTER 14 HRS.	▽ CASING DIAMETER	mm	INSPECTOR:	Reed

LIN ENGINEERING, LTD.
210 W. Chestnut, Chatham, Illinois 62629
(217) 483-668 FAX (217) 483-4706
Designed By: MTH | Checked By: KRG | Drawn By: JMD
Date: 09/05 | File: rp0420-5s090813.dgn

REVISIONS	
NAME	

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL BORING DATA
RETAINING WALL 82
F.A.I. RTE. 74 (I-74)
SECTION 90-11HB-5
TAZEWELL COUNTY
RAMP K-2 STATION 10+378 TO 10+507
STRUCTURE NUMBER 090-8513

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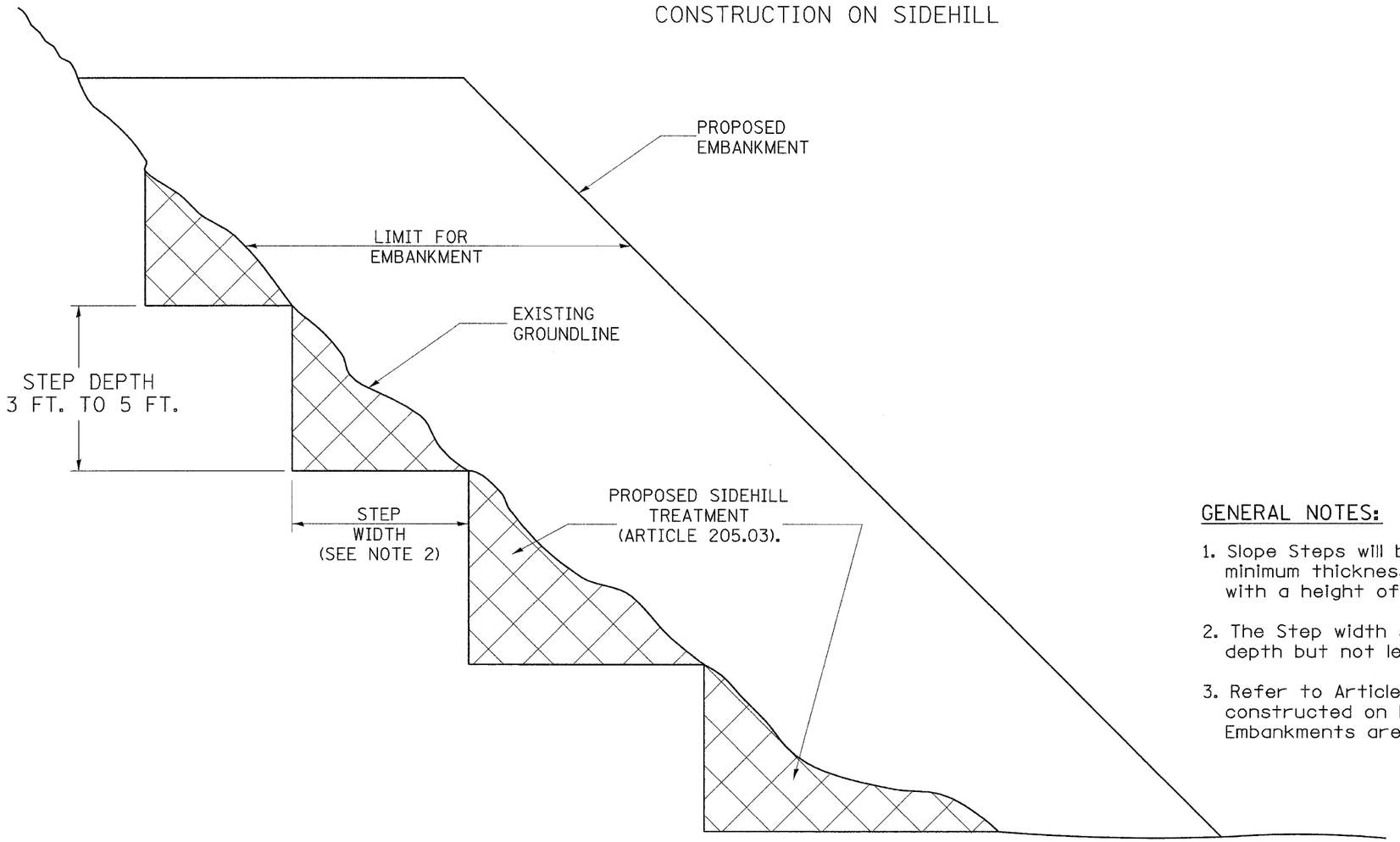
69201

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	643
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SLOPE STEPS DETAIL

TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



GENERAL NOTES:

1. Slope Steps will be required for all 300(12) minimum thickness "sliver fills" and on a fills with a height of 3.0m(10').
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

REPLACEMENT MATERIAL:

STANDARD EMBANKMENT (IN ACCORDANCE WITH 205 OF THE STANDARD SPECIFACATION).

All dimensions are in millimeters (inches) unless otherwise noted.

DATE	REVISIONS	BY
1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE BOX, REVISED GENERAL NOTES.	T.P.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

SLOPE STEPS DETAIL

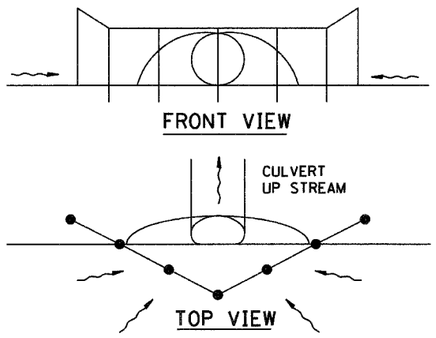
CADD STD. NO. 205001-D4
SCALE: NOT DRAWN TO SCALE
DATE $$DATE$$
DRAWN BY CADD
CHECKED BY

205001-D4

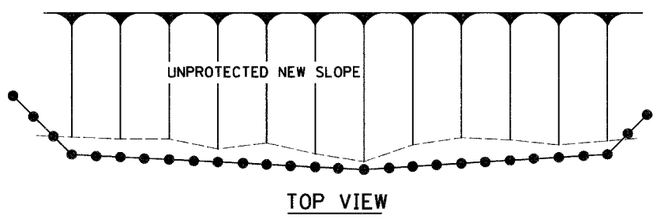
1. EACH PROJECT SHOULD BE REVIEWED INDEPENDENTLY FOR TREATMENT REQUIRED.
2. REFER TO THIS DETAIL WITH NOTE ON APPLICABLE TYPICAL SECTIONS.

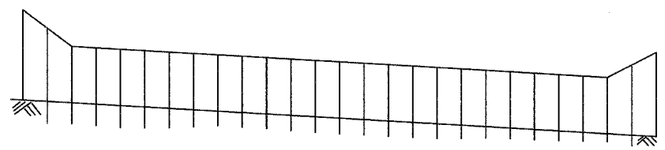
$$DATE$$

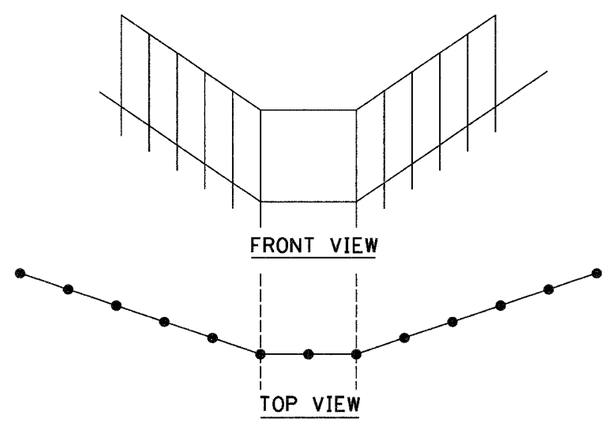
DGN-ONLY



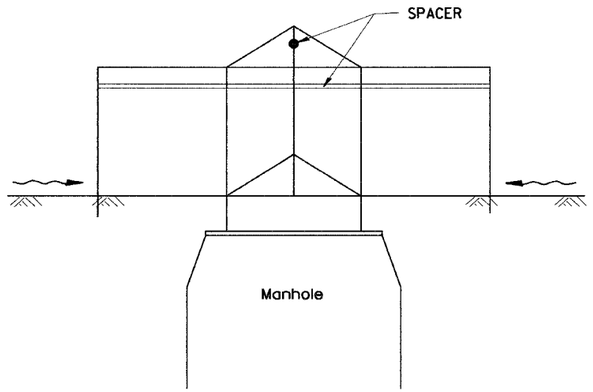
UPSTREAM PIPE CULVERT EROSION CONTROL



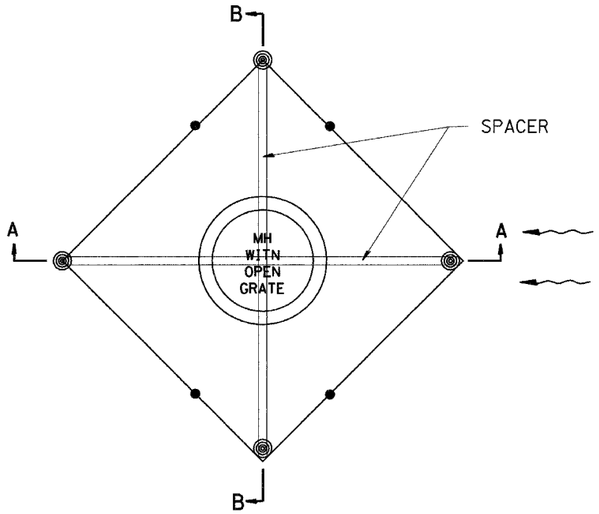




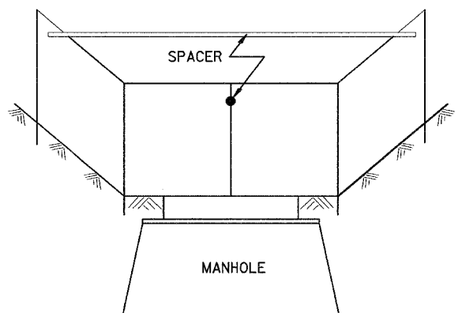
DITCH LINE EROSION CONTROL



SIDE VIEW
A-A



TOP VIEW



Front View
B-B

EROSION CONTROL
AT
OPEN GRATE MAN HOLE

GENERAL NOTES:

1. This work shall be performed in accordance with Sections 280 & 1081, of the Standard Specifications.
2. Additional Timber or Metal Post shall be installed, as needed.

All dimensions are in millimeters (inches) unless otherwise noted.

DATE	REVISIONS	BY
1-1-97	RENUM. A-12.05, NEW REVISION BOX	T.P.

ILLINOIS DEPARTMENT OF TRANSPORTATION

SPECIAL DETAIL SHEET

TYPICAL APPLICATION OF SILT FILTER FENCE

CADD DETAIL 280001-D4
SCALE: NOT DRAWN TO SCALE
DATE $$DATE$$
DRAWN BY CADD
CHECKED BY

280001-D4

$$DATE$$

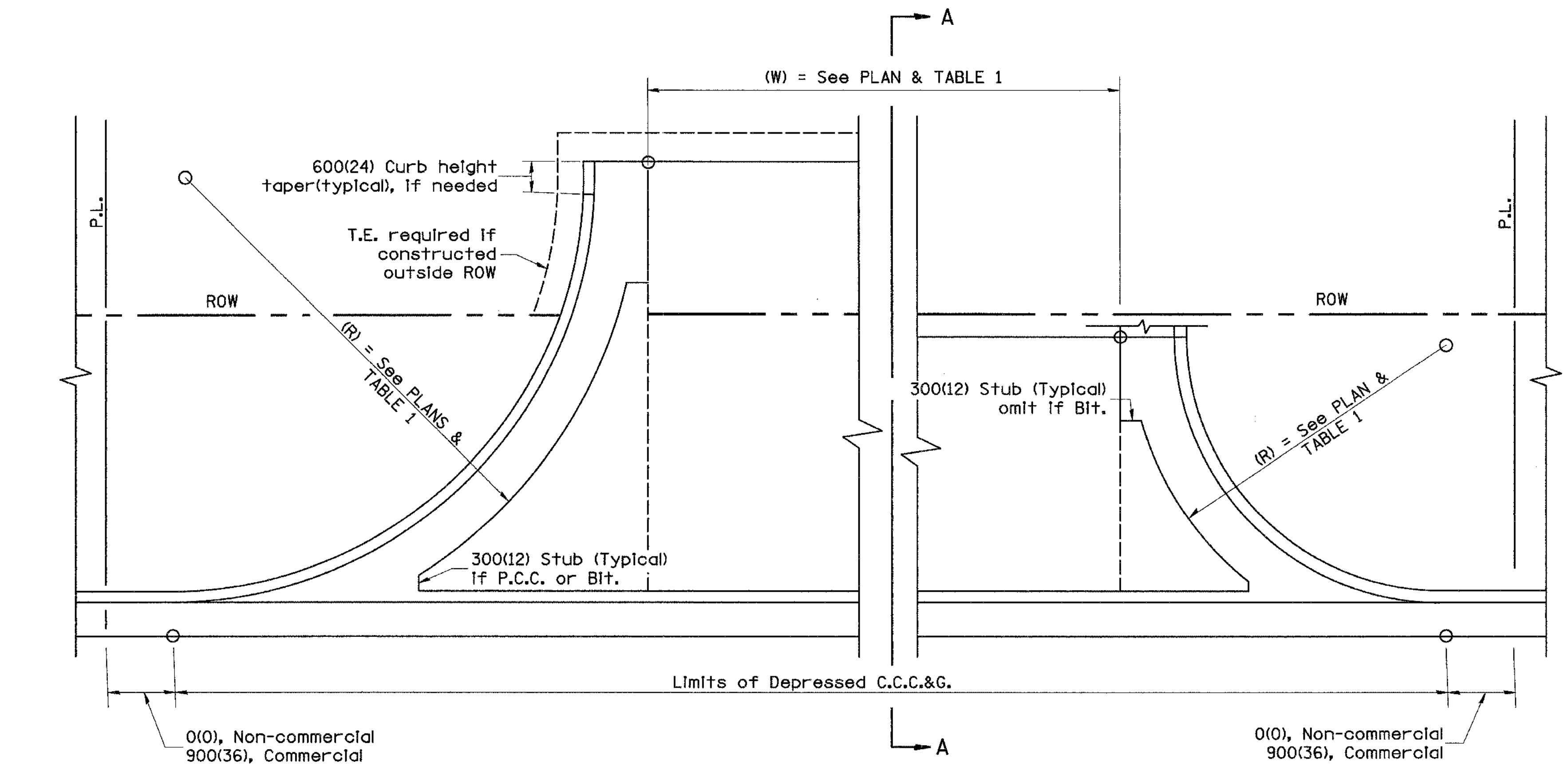
DGN-ONLY

2. DESIGNER SHOULD REVIEW BDE PROCEDURE MEMORANDUM 94-12, DATED 7-1-94 ENTITLED "ACCESSIBILITY STANDARDS FOR THE DISABLED", IF SIDEWALKS ARE TO BE CONSTRUCTED INITIALLY.
3. INCLUDE STATE STANDARD 424001 IF SIDEWALKS ARE TO BE CONSTRUCTED INITIALLY.
4. INCLUDE STATE STANDARD 606001.

$$DATE$$

68201

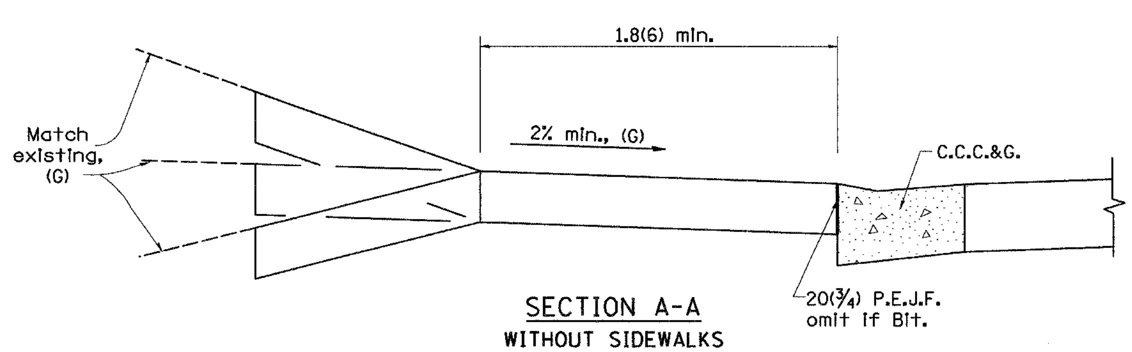
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	645
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN

GENERAL NOTES

1. C.C.C.&G. will be measured for pavement as specified in Article 606.13 of the Standard Specifications.
2. C.C.C.&G. Construction Joints will be as shown on Standard 606001.

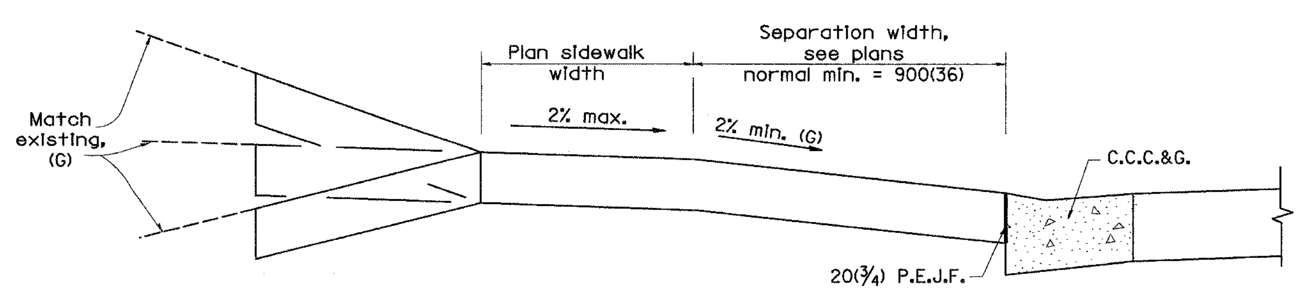


SECTION A-A
WITHOUT SIDEWALKS

TABLE 1

URBAN ENTRANCE DESIGN CONTROLS

ELEMENT	NON-COMMERCIAL		COMMERCIAL			
			1-WAY OPERATION		2-WAY OPERATION	
WIDTH (W)	3.6 m(12') MIN.	7.2 m(24') MAX.	4.3 m(14') MIN.	7.2 m(24') MAX.	7.2 m(24') MIN.	10.7 m(35') MAX.
RADIUS EQUIVALENT 1:1 FLARE (F)	1.5 m(5') MIN.	7.6 m(25') MAX.	4.6 m(15') MIN.	12.0 m(40') MAX.	4.6 m(15') MIN.	12.0 m(40') MAX.
MAX. GRADE (G)	8%		6%			



SECTION A-A
WITH INITIAL OR FUTURE SIDEWALKS

All dimensions are in millimeters (inches) unless otherwise noted.

DATE	REVISIONS	BY
1-1-97	RENUM. C-103.05, NEW REVISION BOX, REVISED GENERAL NOTES	T.P.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

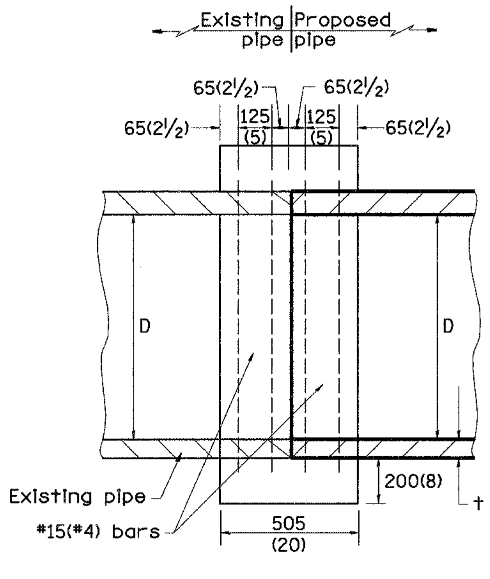
SUBURBAN ENTRANCES WITH CURBED RADII

CADD STD NO. 423001-D4

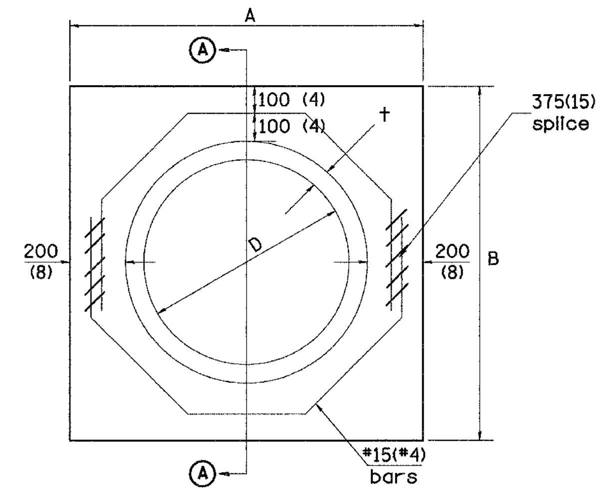
SCALE: NOT DRAWN TO SCALE — DRAWN BY CADD
DATE $$DATE$$ — CHECKED BY

DGN-ONLY

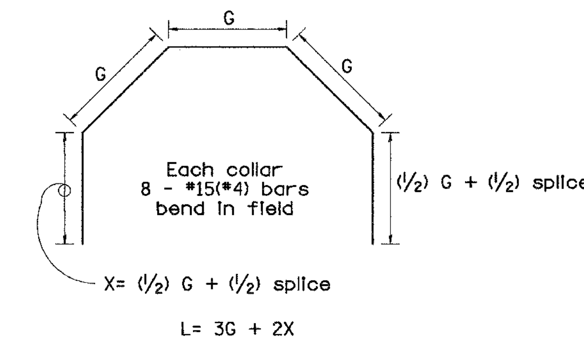
423001-D4



SECTION A - A



END VIEW



D m (in)	t m (in)	A m (ft)	B m (ft)	Each Collar: CL. SI CONC. m³ (cu. yd)	Reinforcement Bars: G m (in)	X m (in)	L m (ft)	Weight kg (lb)
300 (12)	51 (2.00)	0.814 (2.67)	0.814 (2.67)	0.270 (0.4)	253 (9 15/16)	317 (12 7/16)	1.393 (4.57)	11 (24)
375 (15)	57 (2.25)	0.902 (2.96)	0.902 (2.96)	0.315 (0.4)	290 (11 3/8)	335 (13 3/16)	1.541 (5.05)	12 (27)
450 (18)	64 (2.50)	0.991 (3.25)	0.991 (3.25)	0.362 (0.5)	327 (12 13/16)	354 (13 7/8)	1.689 (5.54)	14 (30)
525 (21)	70 (2.75)	1.079 (3.54)	1.079 (3.54)	0.411 (0.5)	364 (14 1/4)	372 (14 5/8)	1.836 (6.02)	15 (32)
600 (24)	76 (3.00)	1.167 (3.83)	1.167 (3.84)	0.460 (0.6)	401 (15 11/16)	391 (15 5/16)	1.984 (6.51)	16 (35)
675 (27)	83 (3.25)	1.259 (4.13)	1.259 (4.13)	0.516 (0.7)	438 (17 1/4)	409 (16 1/16)	2.131 (6.99)	17 (37)
750 (30)	89 (3.50)	1.347 (4.42)	1.347 (4.42)	0.570 (0.7)	475 (18 11/16)	428 (16 3/4)	2.279 (7.48)	18 (40)
825 (33)	95 (3.75)	1.436 (4.71)	1.436 (4.71)	0.624 (0.8)	512 (20 1/8)	446 (17 1/2)	2.426 (7.96)	19 (43)
900 (36)	102 (4.00)	1.524 (5.00)	1.524 (5.00)	0.682 (0.9)	549 (21 9/16)	465 (18 3/16)	2.574 (8.44)	20 (45)
1050 (42)	114 (4.50)	1.701 (5.58)	1.701 (5.58)	0.800 (1.0)	622 (24 7/16)	501 (19 3/4)	2.869 (9.41)	23 (50)
1200 (48)	127 (5.00)	1.881 (6.17)	1.881 (6.17)	0.930 (1.2)	696 (27 5/16)	538 (21 3/16)	3.164 (10.38)	25 (55)

GENERAL NOTES

1. THE COLLAR SHALL BE CONSTRUCTED ENTIRELY OF CLASS SI CONCRETE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 503 OF THE STANDARD SPECIFICATIONS. REINFORCEMENT BARS SHALL CONFORM TO SECTION 508.

All dimensions are in millimeters (inches) unless otherwise noted.

QUANTITIES

CALC. BY: R. J. D. 2-2-98 DATE:

CHECKED BY: R. D. H. 2-6-98 DATE:

QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

$$DATE$$

DGN-ONLY

DATE	REVISIONS	BY
1-1-97	RENUM. B-8.03, NEW REVISION BOX ADDED QUANTITY CALCULATION BOX, REVISED TITLE BOX	T.P.
4-1-97	CORRECT BAR	J.A.
2-10-98	REVISE QUANTITIES	J.A.
9-1-00	CORRECT WEIGHT	J.A.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT CADD STANDARD

PIPE CULVERT EXTENSION COLLAR (WITHOUT END SECTION)

CADD STANDARD 542016-D4

SCALE: NOT DRAWN TO SCALE DRAWN BY: CADD

DATE: $$DATE$$ CHECKED BY

542016-D4

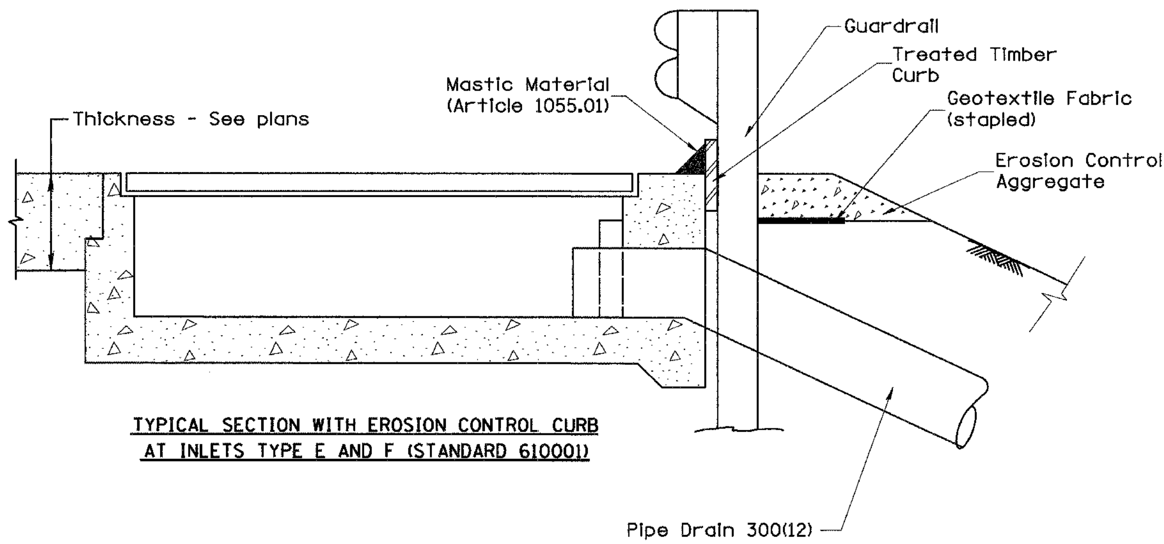
2. INCLUDE STATE STANDARDS 609001, 609006 OR 610001, IF APPLICABLE
3. INCLUDE DISTRICT CADD STANDARDS FOR "GUARDRAIL EROSION CONTROL TREATMENTS", "SEEPAGE COLLARS FOR BURIED PIPES", AND "PIPE ELBOW"

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	649

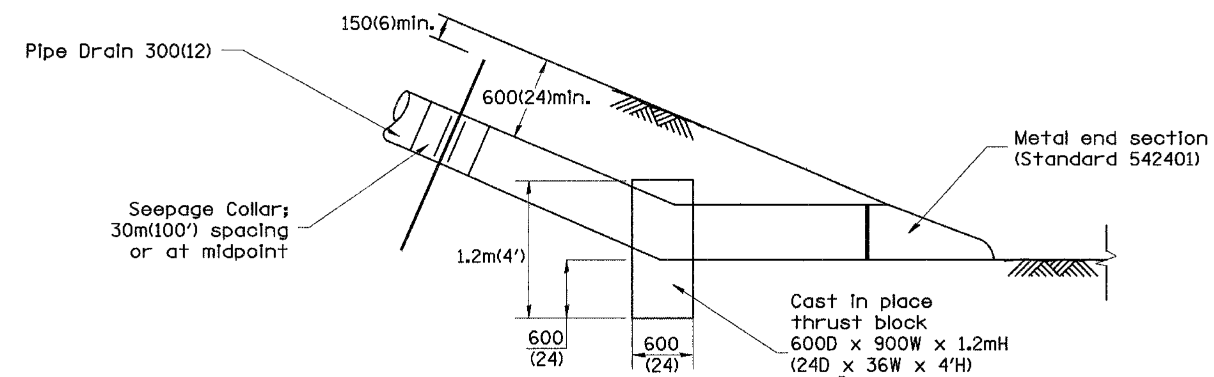
68201

TO STA.

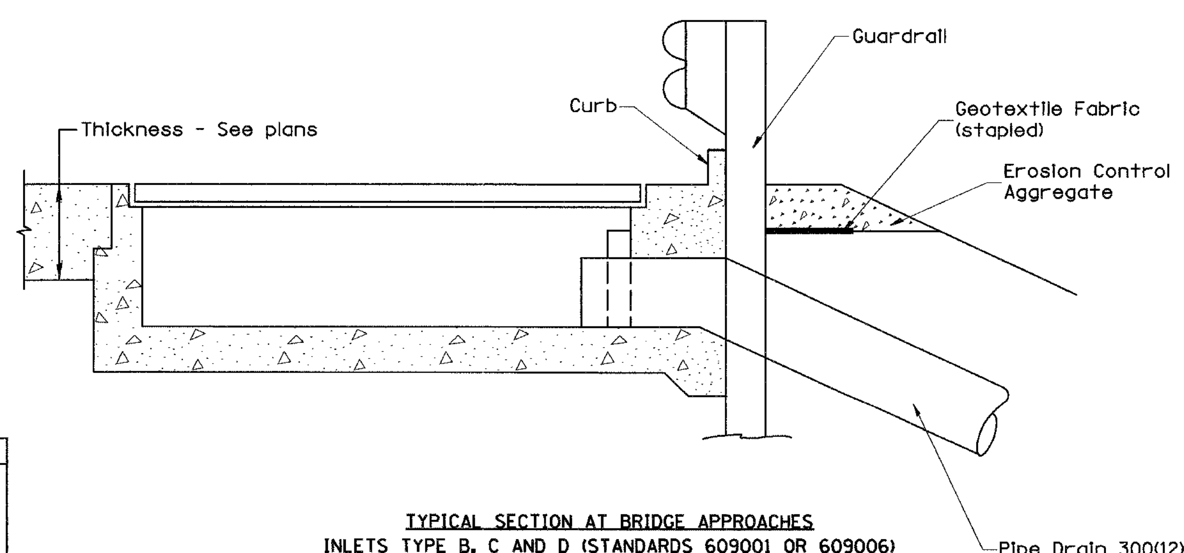
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



TYPICAL SECTION WITH EROSION CONTROL CURB AT INLETS TYPE E AND F (STANDARD 610001)



TYPICAL SECTION



TYPICAL SECTION AT BRIDGE APPROACHES INLETS TYPE B, C AND D (STANDARDS 609001 OR 609006)

GENERAL NOTES

1. The material for Pipe Drains shall be bituminous coated galvanized corrugated steel culvert pipe or bituminous coated corrugated aluminum alloy pipe in accordance with Article 601.02(f) or 601.02(i).
2. An approved mastic material (Article 1055.01) shall be applied to the inside of the connecting bands.

All dimensions are in millimeters (inches) unless otherwise noted.

QUANTITIES	
CALC. BY: ______	DATE:
CHECKED BY: ______	DATE:

QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

$$DATE$$

DATE	REVISIONS	BY
1-1-97	RENUM. H-1.04, NEW REVISION BOX, REVISED TITLE BOX, REVISED DESIGNER NOTES, ADDED QUANTITY CALCULATION BOX	T.P.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT CADD STANDARD

SLOPE DRAIN DETAILS FOR BURIED PIPES

CADD STD. NO. 601101-D4
NOT DRAWN TO SCALE
$$DATE$$
DRAWN BY CADD

DGN-ONLY

601101-D4

DESIGNER NOTES: 1. Use with District CADD Standards: Slope Drains, Buried Pipe and/or Slope Drains - Exposed Pipe

$$DATE$$

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	648
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

68201

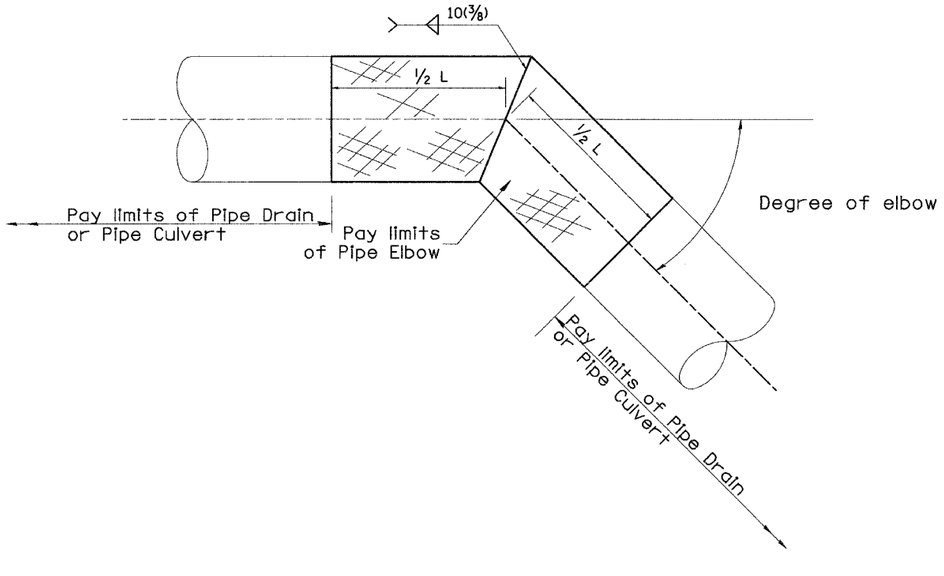
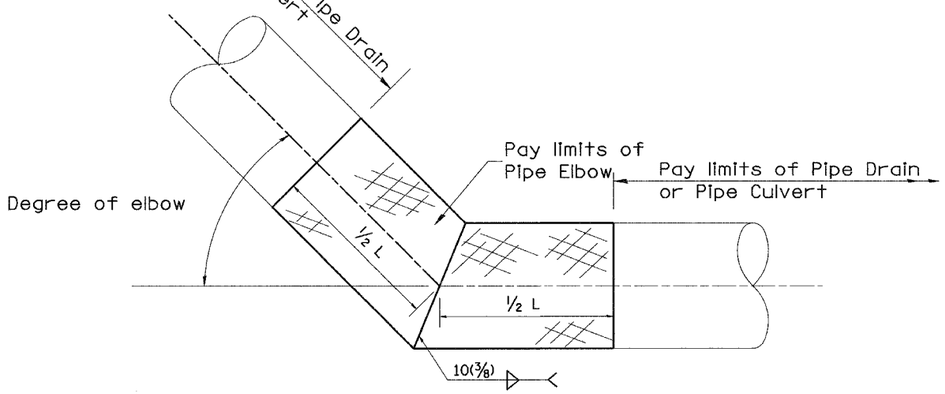


TABLE A		
ELBOW DESIGN CONTROLS		
PIPE DIAMETER	L = Pay limits of Pipe Elbow and minimum length of pipe required for fabrication	
	DEGREE OF ELBOW ≤ 45°	DEGREE OF ELBOW ≥ 46°
300(12)	600(24)	1.22M(4')
375(15)	600(24)	1.22M(4')
450(18)	600(24)	1.22M(4')
525(21)	600(24)	1.22M(4')
600(24)	1.22M(4')	1.22M(4')
750(30)	1.22M(4')	1.83M(6')
900(36)	1.22M(4')	1.83M(6')

TABLE B	
ELBOW DESIGN CONTROLS	
EARTH SLOPE (V:H)	DEGREE OF ELBOW *
1:6	9°
1:4	14°
1:3	18°
1:2	26°
1:1 1/2	33°

* Approximate - based upon 0.5% inlet and outlet flowlines.



All dimensions are in millimeters (inches) unless otherwise noted.

DATE	REVISIONS	BY
1-1-97	RENUM. J-11.05, NEW REVISION BOX, REVISED TITLE BOX	T.P.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT CADD STANDARD

PIPE ELBOW

CADD STD. NO. 601301-D4

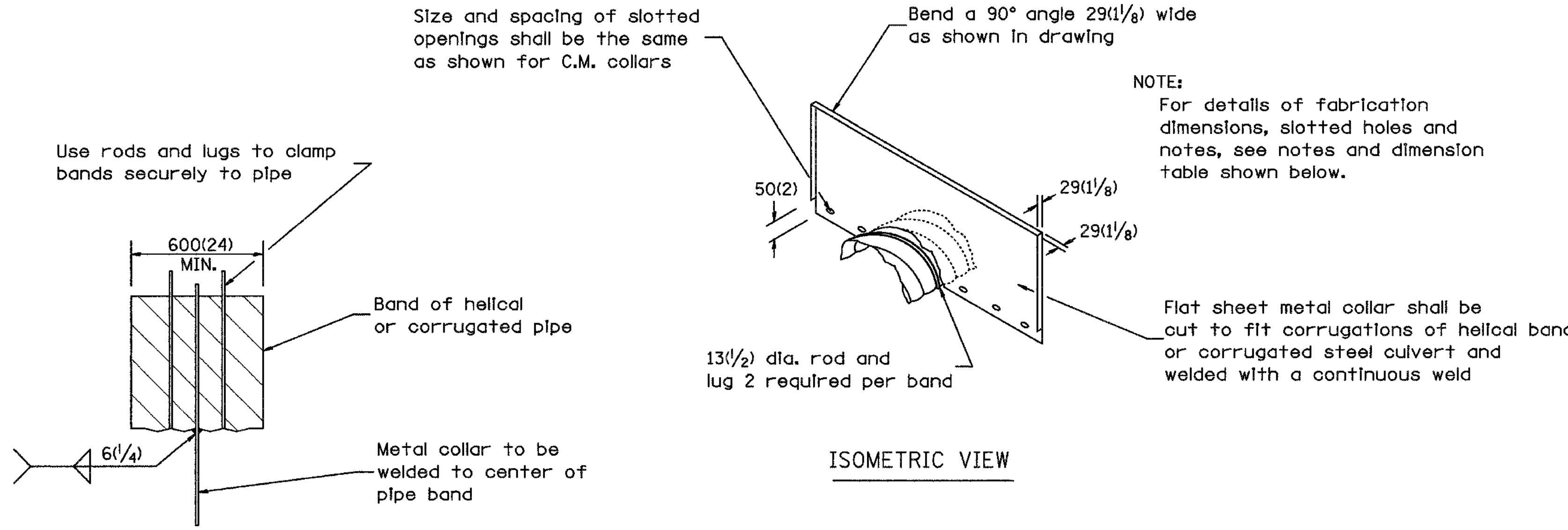
SCALE: NOT DRAWN TO SCALE — DRAWN BY CADD

DATE $$DATE$$ — CHECKED BY

601301-D4

DGN-ONLY

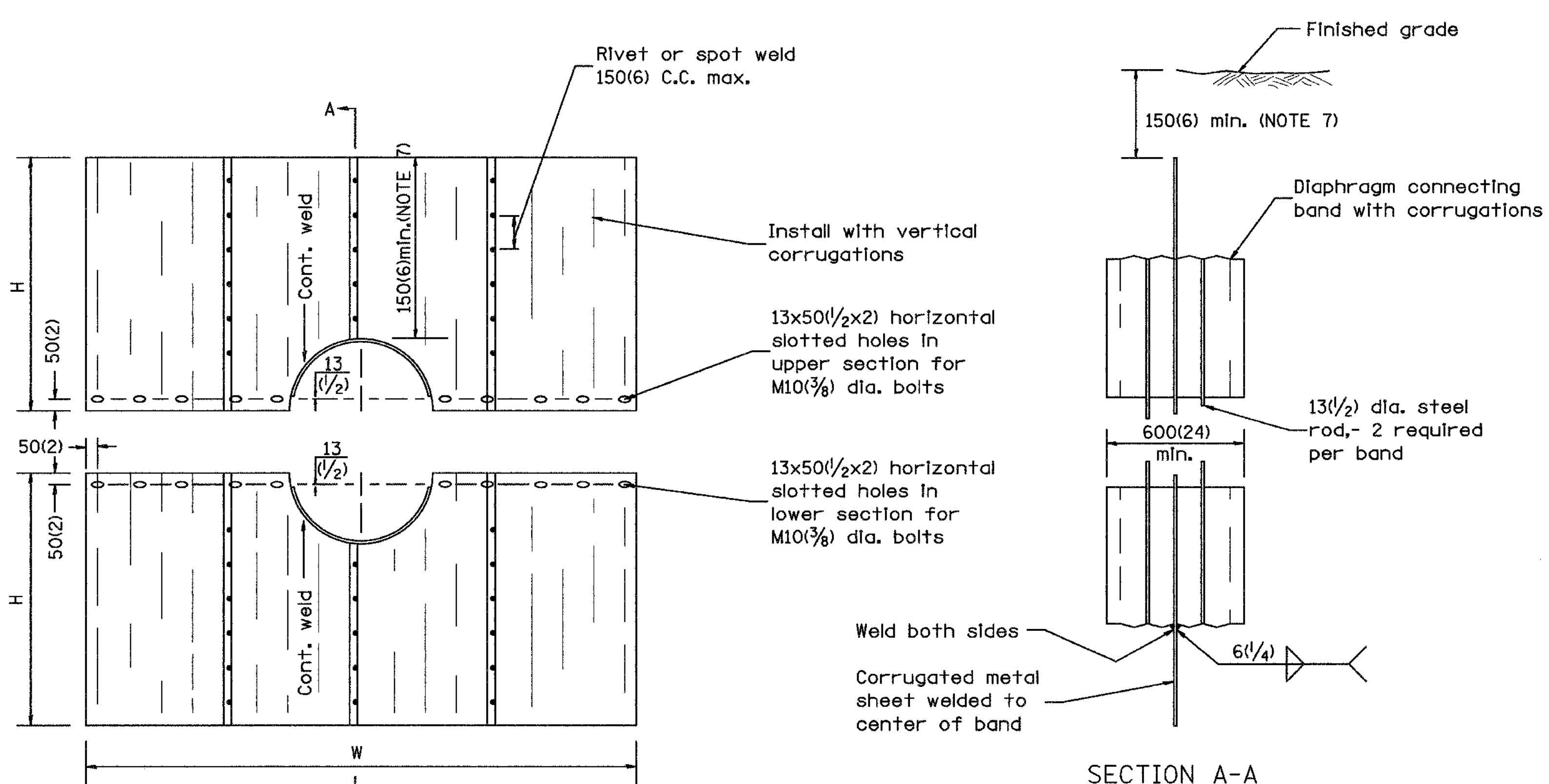
1. USE WITH DISTRICT CADD STANDARD: "SLOPE DRAIN FOR BURIED PIPES"
2. ADD DISTRICT SPECIAL PROVISION.



DETAILS OF CORRUGATED PIPE COLLAR

NOTES FOR COLLARS:

1. Materials and coatings for all collars shall be the same as that specified for the pipe.
2. Collars shall be shop fabricated, assembled and marked by painting to identify matching half sections of each collar.
3. The laps between the half sections and between the pipe and connecting bands shall be caulked with fiberized asphalt mastic at the time of installation.
4. All tank lugs, rods, and nuts shall be galvanized steel. Where aluminum collars are used, The rods and lugs shall be separated from the aluminum bands. By at least two (2) layers of 50(2) wide plastic tape with a total thickness of $2^1/_4$ mils or more.
5. The collars shall be welded to the connecting bands as shown on the drawings, all welds shall be treated as specified for class I, II, and III welds, miscellaneous. (Refer to AWS Standard Specifications)
6. Bands shall be fabricated from material having the same class of corrugations as the pipe to which it is to be attached.
7. Upper half of sheet may be cut shorter to provide 150(6) min. earth cover.



DETAILS OF SEEPAGE COLLAR

SEEPAGE COLLAR DIMENSION TABLE

PIPE DIAMETER	NOMINAL COLLAR SIZE	FABRICATIONS DIMENSIONS	
		W(WIDTH)	H(HEIGHT)
300(12) 375(15), 450(18) 525(21), 600(24)	2.4mx1.8m (8'x6')	2.44m (8'-0")	966(38)
675(27) 750(30)	2.4mx2.1m (8'x7')	2.44m (8'-0")	1.12m (3'-8")
900(36), 1050(42) 1200(48)	3.0mx2.1m (10'x7')	3.05m (10'-0")	1.12m (3'-8")

Collar dimensions shown may be increased to allow fabrication from standard size sheets.

All dimensions are in millimeters (inches) unless otherwise noted.

SEEPAGE COLLAR SPACING
Less than 600(24) pipe: 30m (100') spacing or midpoint
Equal to or greater than 600(24) pipe: 24m (80') spacing or midpoint

DATE	REVISIONS	BY
1-1-97	RENUM. J-10.02, NEW REVISION BOX, REVISED TITLE BOX, REVISED DESIGNER NOTES	T.P.

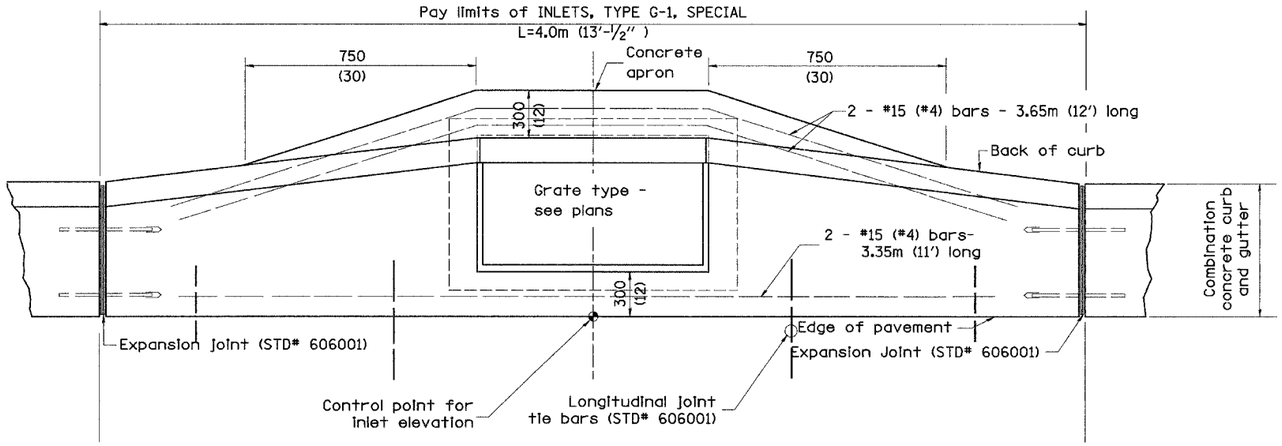
ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD
DETAILS OF SEEPAGE COLLARS FOR BURIED PIPES
CADD STD. NO. 601401-D4
SCALE: NOT DRAWN TO SCALE | DRAWN BY CADD
DATE $$DATE$$ | CHECKED BY

$$DATE$$

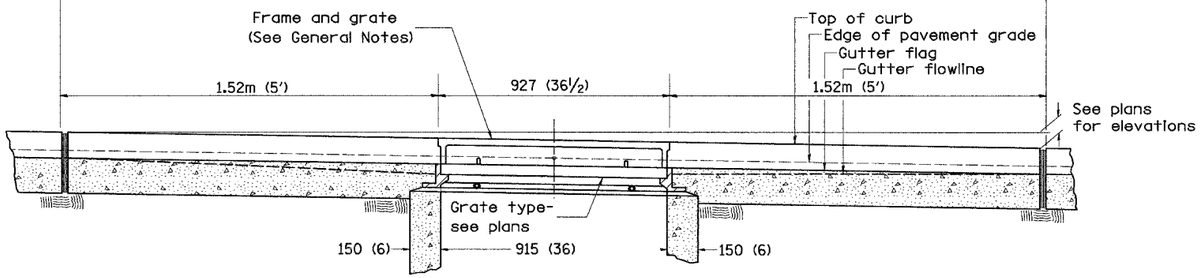
DGN-ONLY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	650
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

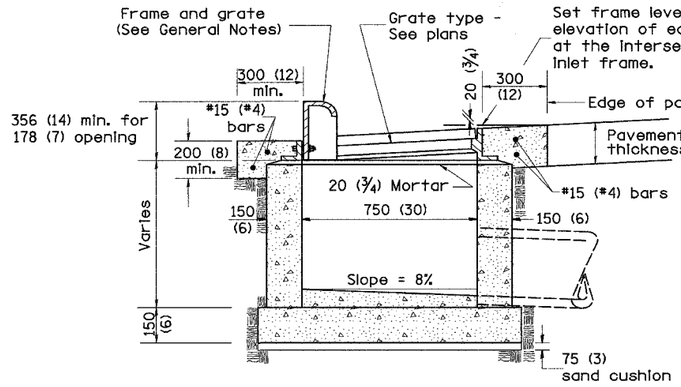
6S201



PLAN



ELEVATION
(FRONT)



ELEVATION
(SIDE)

GENERAL NOTES

1. Inlet construction shall be in accordance with Section 602 of the Standard Specifications.
2. Combination Concrete Curb and Gutter shall be constructed in accordance with Section 606 of the Standard Specifications.
3. See District CADD Standard 604001-D4 for frame and grates.

All dimensions are in millimeters (inches) unless otherwise noted.

DATE	REVISIONS	BY
1-1-97	RENUM. B-4.02, NEW REVISION BOX	
12-1-98	CORRECT E. O. P. NOTE	J.A.
10-99	REVISION TO GENERAL NOTES	J.A.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

INLETS, TYPE G-1, SPECIAL

CADD STANDARD 602006-D4
SCALE NOT TO SCALE — DRAWN BY CADD
DATE $$DATE$$ — CHECKED BY

602006-D4

Include State Standard 420001 for pavement joints.
Include District CADD Standard for frame and grates.
Include District Special Provision. Pay Item includes transitional c.c.c &g., inlet and frame and grate. All work within pay limits.
Specify grate type in plans

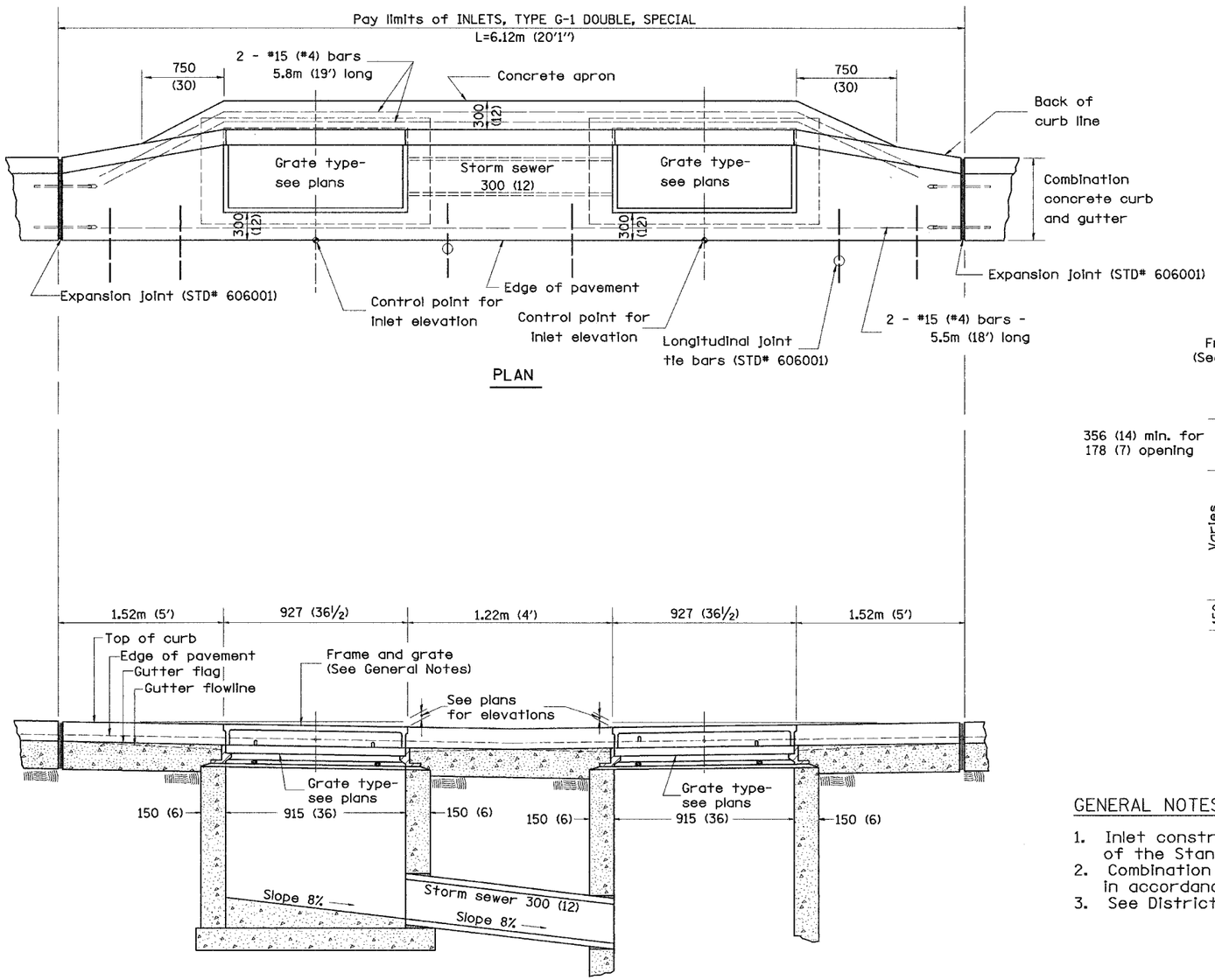
$$DATE$$

DGN-ONLY

\roadway\cad\standard\11.dgn 12/15/2004 4:15:18 PM

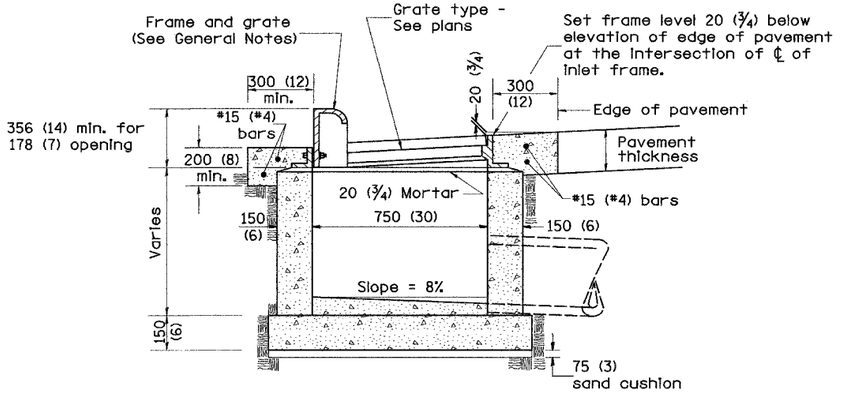
68201

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	651
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN

FRONT ELEVATION



ELEVATION
(SIDE)

GENERAL NOTES

1. Inlet construction shall be in accordance with Section 602 of the Standard Specifications.
2. Combination Concrete Curb & Gutter shall be constructed in accordance with Section 606 of the Standard Specifications.
3. See District CADD Standard 604001-D4 for frame and grates.

All dimensions are in millimeters (inches) unless otherwise noted.

DATE		BY
1-1-97	RENUM. B-4.04, NEW REVISION BOX	T.P.
4-1-97	CORRECT DIMENSIONS	J.A.
10-99	REVISION TO GENERAL NOTES	J.A.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT CADD STANDARD

INLETS, TYPE G-1 DOUBLE, SPECIAL

CADD STANDARD 602016-D4

SCALE NOT TO SCALE — DRAWN BY CADD

DATE $$DATE$$ — CHECKED BY

602016-D4

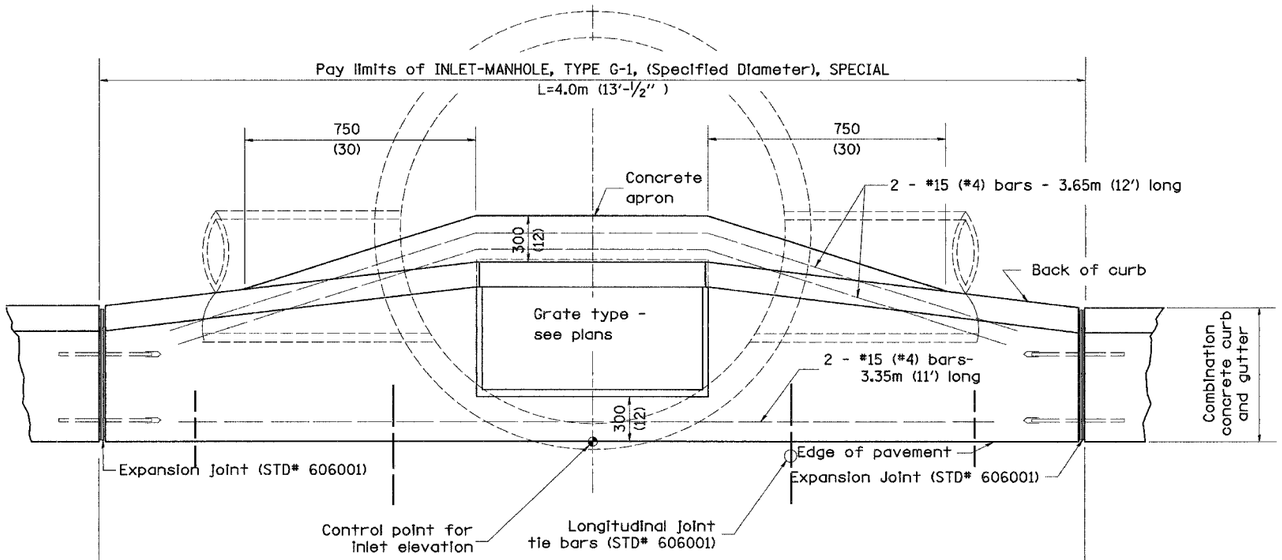
Include Grate Standard 440001 for pavement joints.
Include District CADD Standard for frame and grates.
Include District Special Provision. Pay Item includes transitional c.o.c &g., inlet and frame and grate. All work within pay limits.
Specify grate type in plans.

$$DATE$$

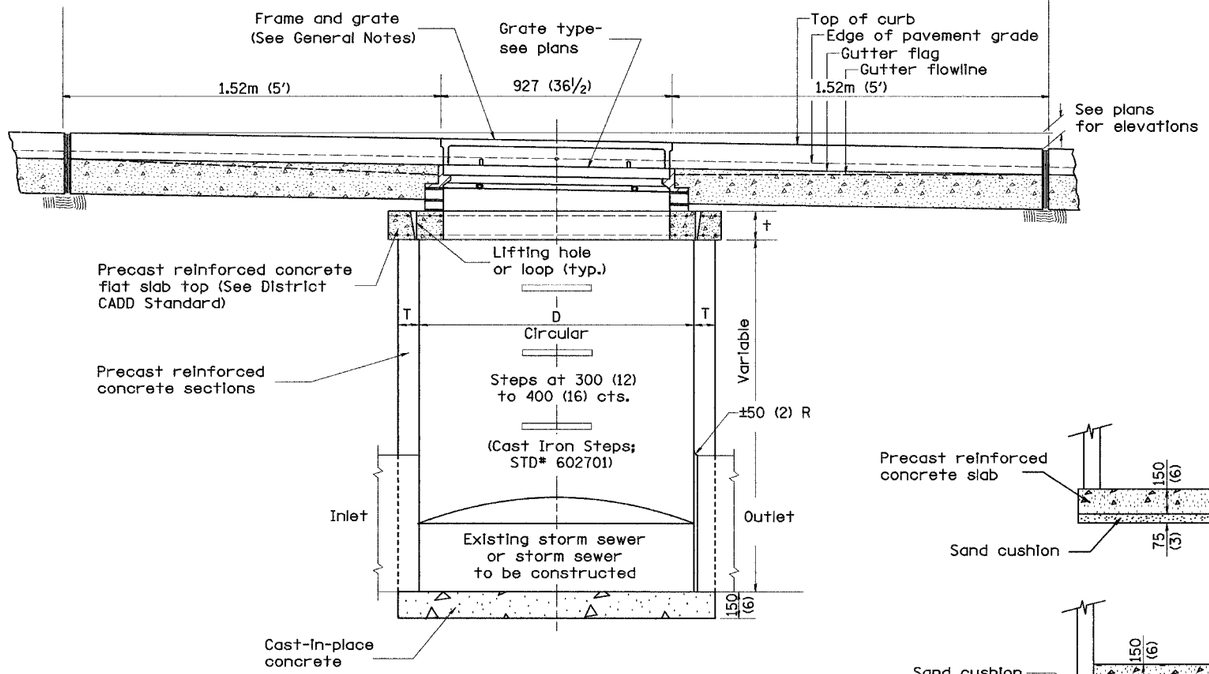
DGN-ONLY

68201

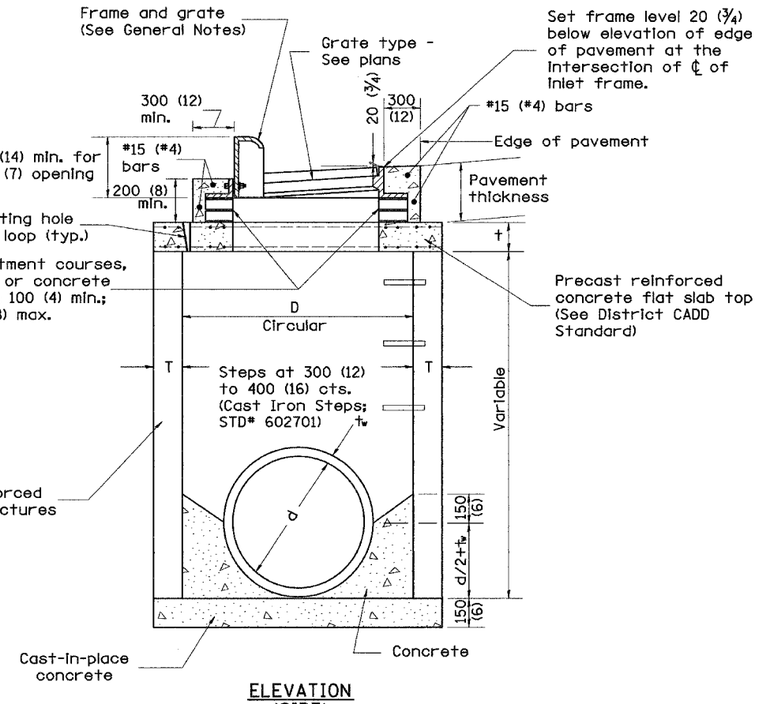
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	652
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



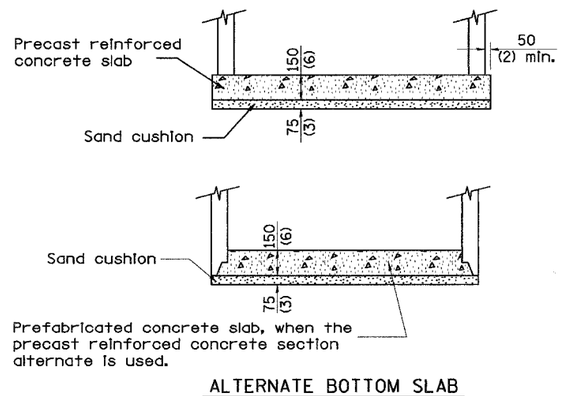
PLAN



ELEVATION
(FRONT)



ELEVATION
(SIDE)



ALTERNATE BOTTOM SLAB

TABLE

D	T	t
1.2m (4')	125 (5)	150 (6)
1.5m (5')	150 (6)	200 (8)
1.8m (6')	195 (7 3/4)	200 (8)
2.4m (8')	225 (9)	250 (10)

GENERAL NOTES

1. Inlet-manhole construction shall be in accordance with Section 602 of the Standard Specifications.
2. Combination concrete curb and gutter shall be constructed in accordance with Section 606 of the Standard Specifications.
3. See District CADD Standard 604001-D4 for frame and grates.
4. See District CADD Standard for precast reinforced concrete flat slab top.

All dimensions are in millimeters (inches) unless otherwise noted.

DATE	REVISIONS	BY
1-1-97	RENUM. B-4.06, NEW REVISION BOX	T.P.
12-1-98	CORRECT E. O. P. NOTE	J.A.
10-99	REVISION TO GENERAL NOTES	J.A.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT CADD STANDARD

INLET-MANHOLE, TYPE G-1, SPECIAL

CADD STANDARD 602026-D4

SCALE NOT TO SCALE — DRAWN BY CADD

DATE $$DATE$$ — CHECKED BY

602026-D4

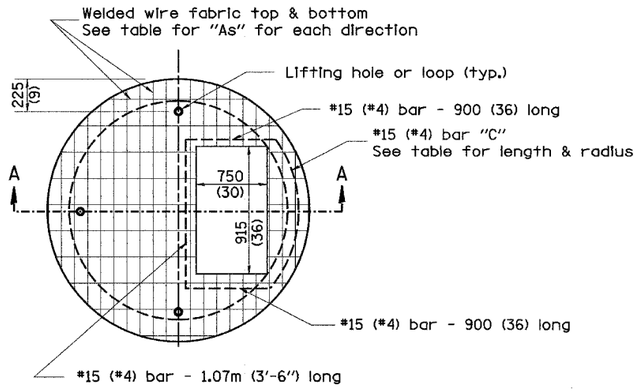
Include District CADD Standard for frame and grates.
Include District CADD Standard for precast reinforced concrete flat slab top.
Include District Special Provision. Pay Item includes inlet - manhole, flat slab top, transitional c.c.&g. and frame and grate. All work within pay limits.
Specify diameter of inlet - manhole in plans.
Specify grate type in plans.

$$DATE$$

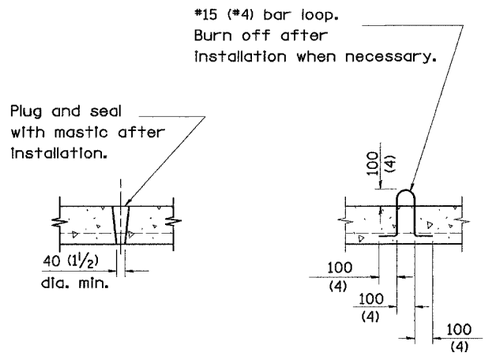
DGN-ONLY

68201

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	653
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

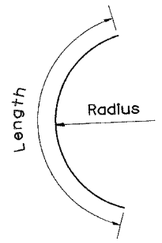


PLAN



LIFTING HOLE OR LIFTING LOOP TYPICAL

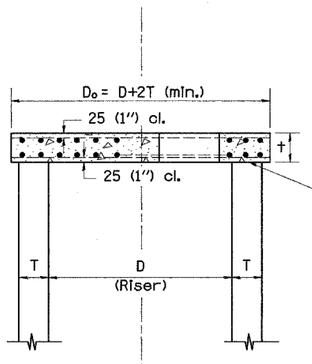
(3 required per slab)



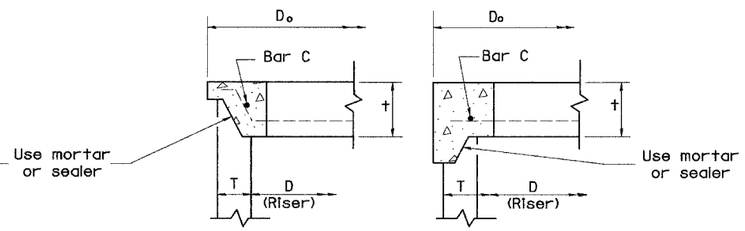
BAR "C"

TABLE

D	T	D_o (min.)	t	Reinforcement "As" W.W.F. each direction	Bar size	No. 15 (No. 4) Bar C Length	No. 15 (No. 4) Bar C Radius
1.2m (4')	125 (5)	1.5m (4'-10")	150 (6)	1480mm²/m (0.70 sq. inch/lin. ft.)	No. 15 (No. 5)	1.35m (4'-6")	660 (26)
1.5m (5')	150 (6)	1.8m (6'-0")	200 (8)	1480mm²/m (0.70 sq. inch/lin. ft.)	No. 15 (No. 5)	1.5m (5'-0")	810 (32)
1.8m (6')	195 (7¾)	2.2m (7'-3½")	200 (8)	1860mm²/m (0.88 sq. inch/lin. ft.)	No. 20 (No. 6)	1.8m (6'-0")	965 (38)
2.4m (8')	225 (9)	2.9m (9'-6")	250 (10)	1860mm²/m (0.88 sq. inch/lin. ft.)	No. 20 (No. 6)	2.3m (7'-6")	1.27m (4'-2")



SECTION A-A



ALTERNATE JOINT CONFIGURATIONS

GENERAL NOTES

1. The precast reinforced concrete flat slab top shall be used with INLET-MANHOLE, TYPE G-1 and INLET-MANHOLE, TYPE G-1, SPECIAL.
2. Joint configuration and dimensions of flat slab top shall match and fit the riser joint detail.
3. Lifting devices shall be approved by the Engineer.

DESIGNER NOTES

1. Include this standard with Type G-1 and Type G-1, Special Inlet-Manholes.
2. The flat slab top is included in the cost of INLET-MANHOLES as per District Special Provision.

All dimensions are in millimeters (inches) unless otherwise noted.

DATE	REVISIONS	BY
1-1-97	RENUM. B-4.07, NEW REVISION BOX	T.P.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT CADD STANDARD

PRECAST REINFORCED CONCRETE FLAT SLAB TOP FOR INLET-MANHOLE, TYPE G-1 AND TYPE G-1, SPECIAL

CADD STANDARD 602101-D4
SCALE NOT TO SCALE
DRAWN BY CADD
DATE $$DATE$$
CHECKED BY

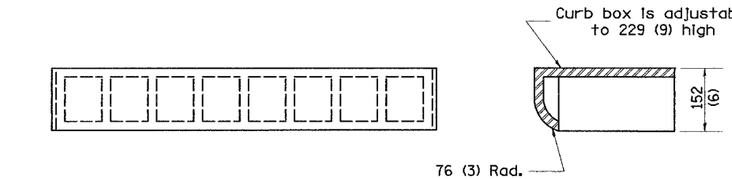
602101-D4

$$DATE$$

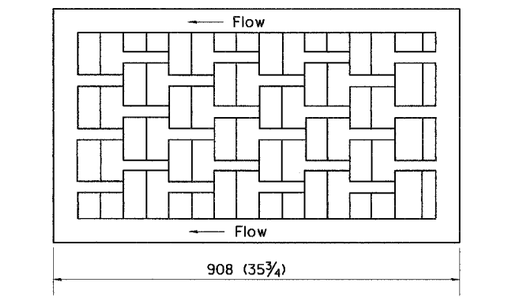
DGN-ONLY

68201

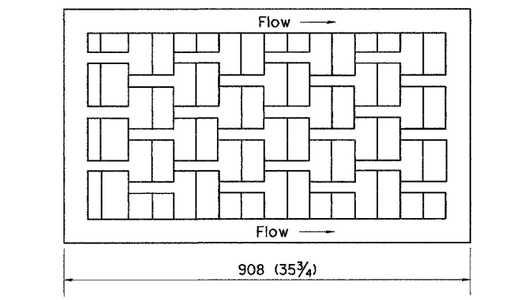
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	654
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CAST CURB BOX
50 kg (110 lbs.)

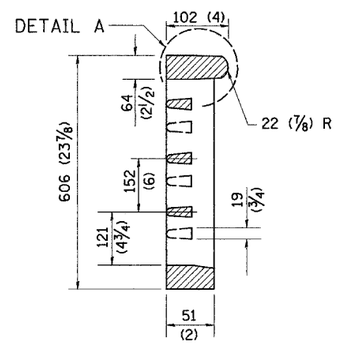


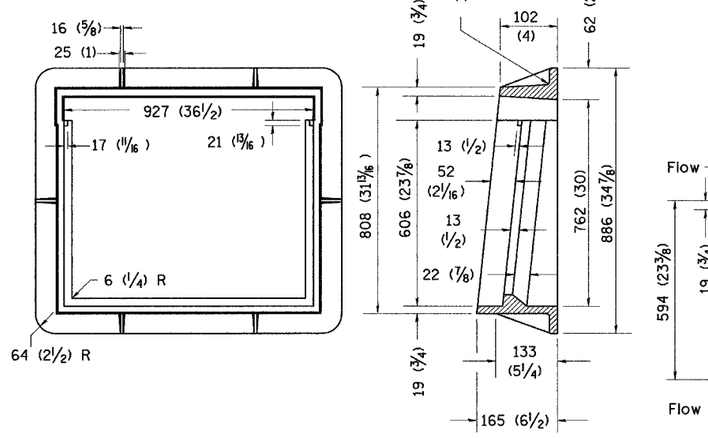
FLOW LEFT

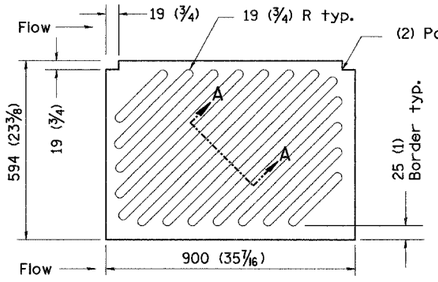


FLOW RIGHT

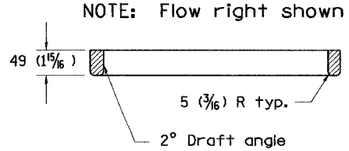
CAST VANE GRATES
(SPECIFY LEFT OR RIGHT FLOW)
104 KG (230 lbs.)



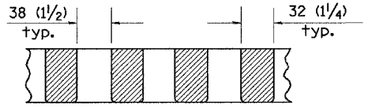




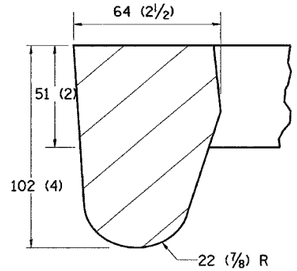
NOTE: Flow right shown



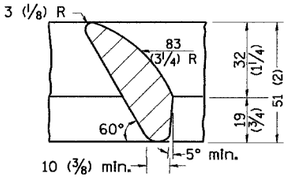
CAST DIAGONAL GRATE
(Reversible for flow)
98 kg (217 lbs.)



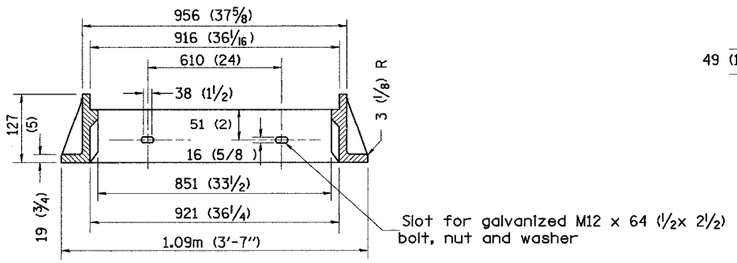
SECTION A-A



DETAIL A



DETAIL B



CAST FRAME
123 kg (271 lbs.)

GENERAL NOTES

1. The frame and grate shown on this drawing are for use with all TYPE G-1 and TYPE G-1, SPECIAL DRAINAGE STRUCTURES. See plans for grate type and flow direction.
2. Flow direction: As viewed from street side.
3. Material: cast gray iron.

All dimensions are in millimeters (inches) unless otherwise noted.

DATE	REVISIONS	BY
1-1-97	RENUM. B-10.01, NEW REVISION BOX	T.P.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD
FRAME AND GRATES FOR TYPE G-1 AND TYPE G-1, SPECIAL DRAINAGE STRUCTURES
CADD STANDARD 604001-D4
SCALE NOT TO SCALE — DRAWN BY CADD
DATE $$DATE$$ — CHECKED BY

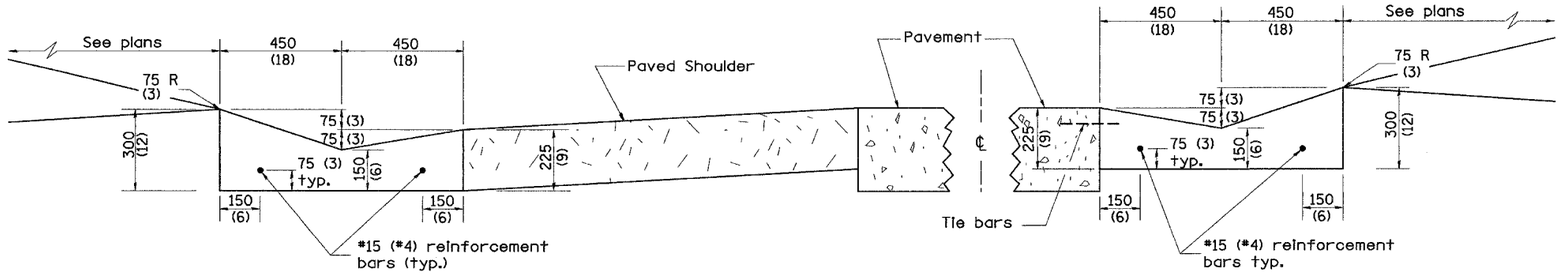
604001-D4

4. This drawing based upon "NEENAH" designs as follows: Inlet Frame: R-3246-A , Curb Box: R-3290
Reversable Diagonal Grates: R-3246-AL(flow left)
Vane Grates: R-3246-AL(flow right) R-3246-AL(flow right)

$$DATE$$

DGN-ONLY

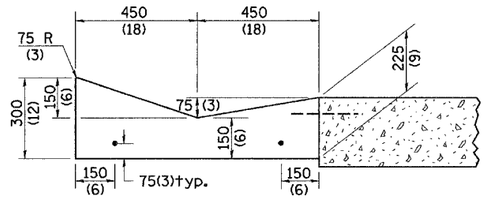
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	655
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



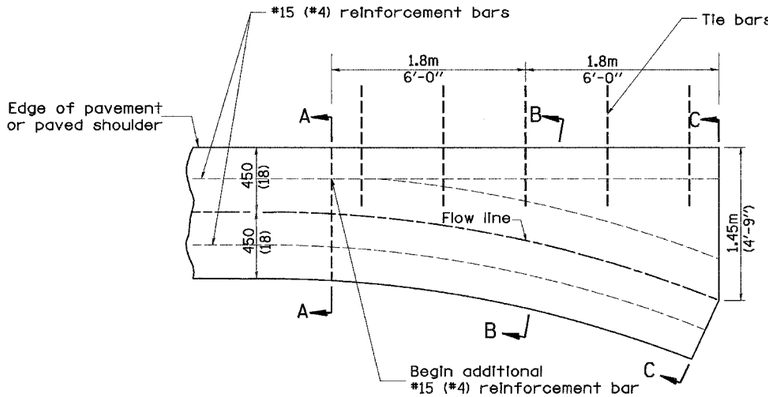
SHOULDER EDGE GUTTER

PAVEMENT EDGE GUTTER

TYPE A GUTTER (MODIFIED)

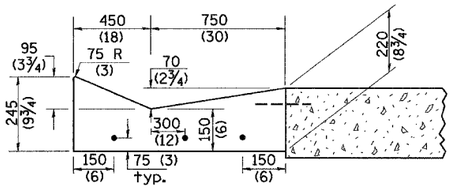


SECTION A-A

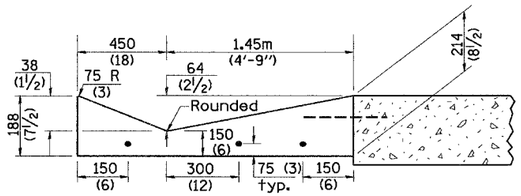


PLAN

QUANTITY
Section C-C to A-A
m^3 (cu. yd.) concrete.



SECTION B-B



SECTION C-C

GENERAL NOTES:

1. TYPE A GUTTER (MODIFIED) shall conform to the the applicable portions of Section 606.
2. Tie bars shall be No. 20 (No. 6) at 600mm (24") centers unless otherwise shown.
3. Gutter, gutter inlets, gutter outlets, and gutter entrances shall be tied to rigid pavement in accordance with details shown on Standard 420001.
4. Joints shall be constructed in accordance with Article 606.06.
5. Welded wire fabric shall conform to Article 1006.10(c)(1), and shall not be less than 2.83 kg/m^2 (58 lbs/100 sq.ft.).

DESIGNER NOTE:
1. INCLUDE STATE STANDARD 420001.
2. INCLUDE DISTRICT SPECIAL PROVISION.

QUANTITIES
CALC. BY: _____ DATE:
CHECKED BY: _____ DATE:
QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

$$DATE$$

DGN-ONLY

INLET

All dimensions are in millimeters (inches) unless otherwise noted.

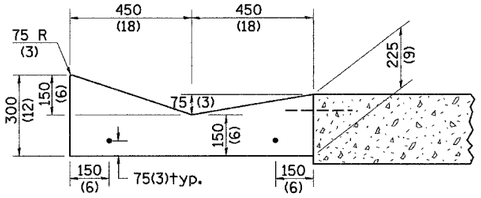
DATE	REVISIONS	BY
1-1-97	RENUM. A-1.02, NEW REVISION	T.P.
	BOX, ELIMINATED EXPANSION ANCHOR TIES.	
2-28-02	ENTRANCE TYPICALS REVISED	M.A.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD
TYPE A GUTTER, (MODIFIED) (INLET, OUTLET & ENTRANCE)
CADD STANDARD 606101-D4 SHEET 1 OF 3
SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
DATE $$DATE$$ CHECKED BY

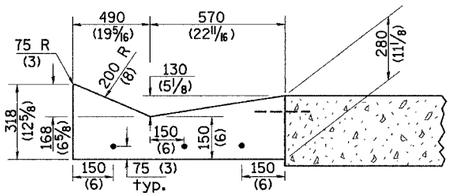
606101-D4 (1)

63201

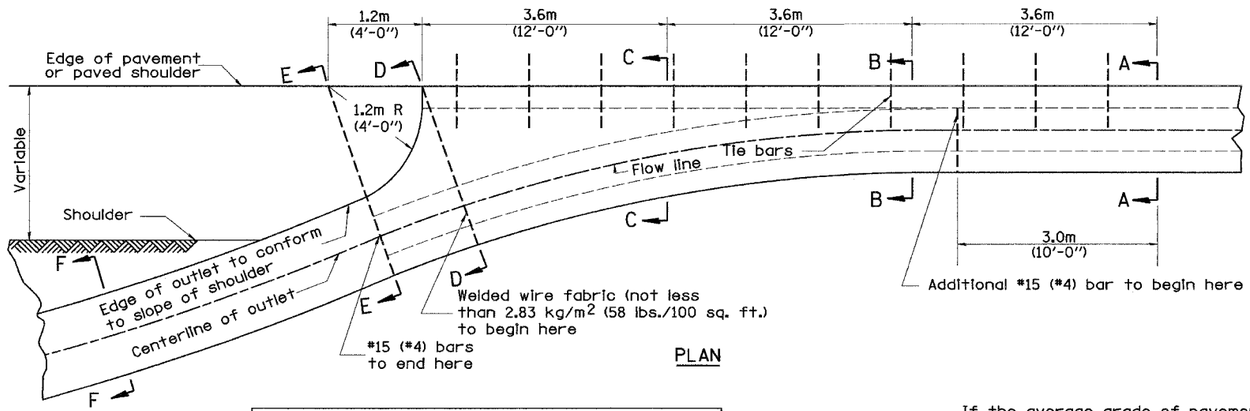
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	686
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SECTION A-A



SECTION B-B

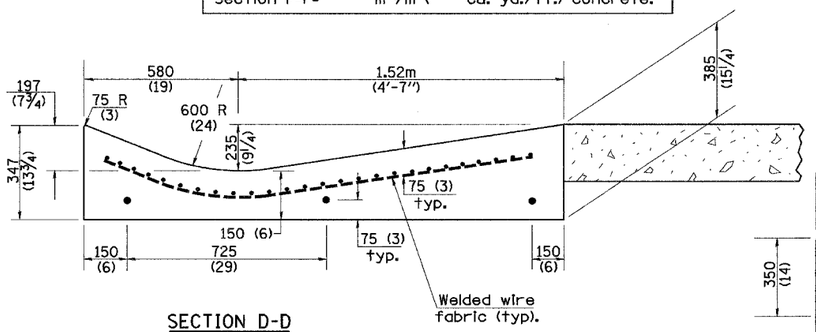


PLAN

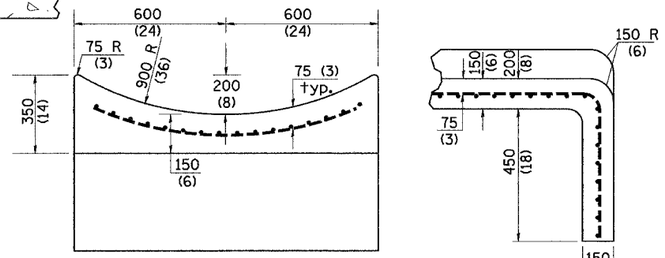
QUANTITY

Section A-A to E-E= m3 (cu. yd.) concrete.
Section F-F= m3/m (cu. yd./ft.) concrete.

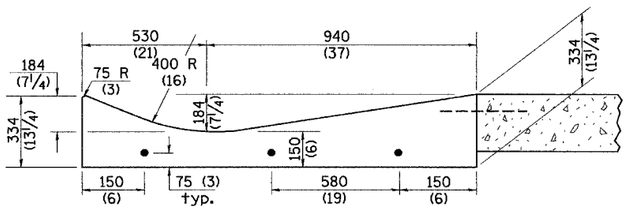
If the average grade of pavement for the distance from section A-A to section D-D exceeds 2%, this distance shall be increased 1.8 m (6 ft.) for each 1% increase in grade. A quantity adjustment is required.



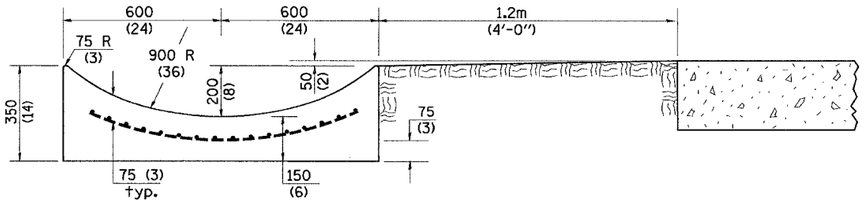
SECTION D-D



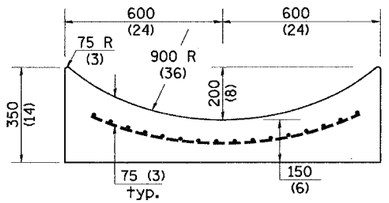
SECTIONS AT END OF OUTLET
(CURTAIN WALL)



SECTION C-C



SECTION E-E



SECTION F-F

QUANTITY

Curtain Wall
m3 (cu. yd.) concrete.

OUTLET

QUANTITIES
CALC. BY: _____ DATE:
CHECKED BY: _____ DATE:
QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

TYPE A GUTTER, (MODIFIED)
(INLET, OUTLET & ENTRANCE)

CADD STANDARD 606101-D4 SHEET 2 OF 3

SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
DATE $$DATE$$ CHECKED BY

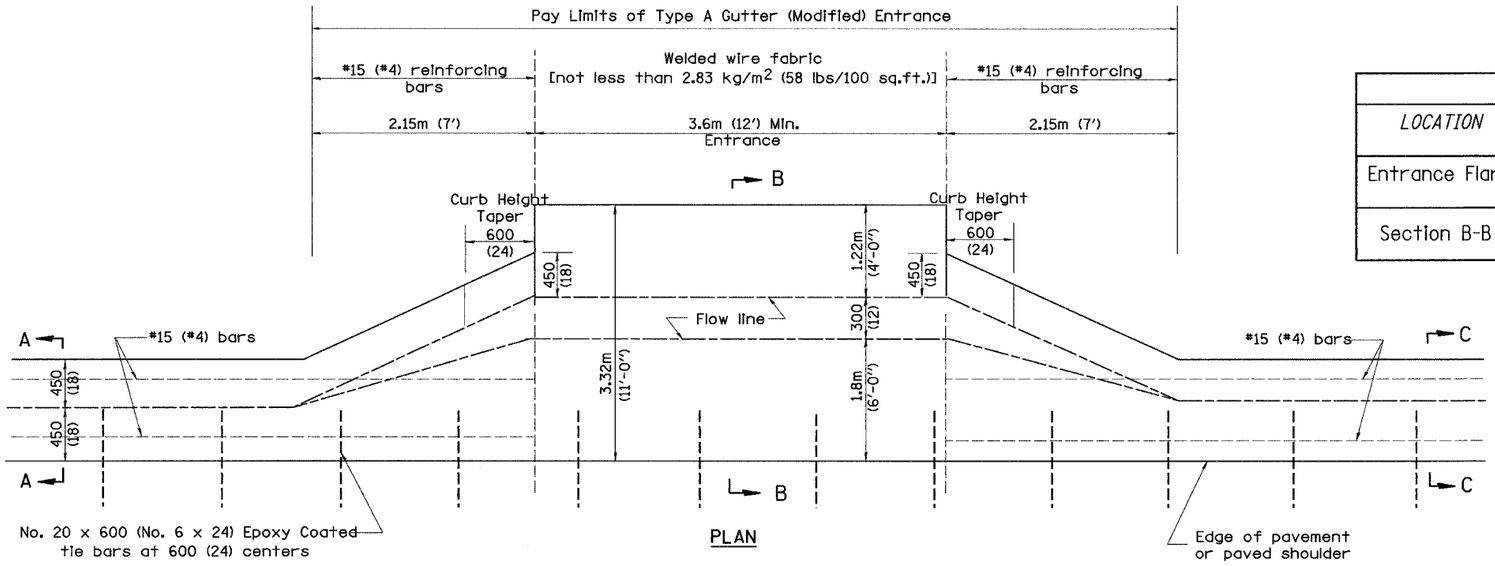
606101-D4 (2)

$$DATE$$

DGN-ONLY

68201

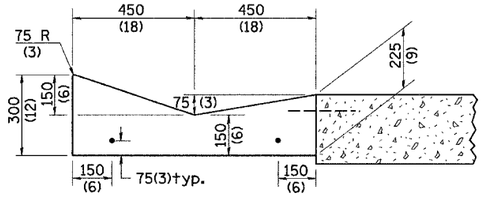
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1190	(125B)BR	KNOX	1366	657
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



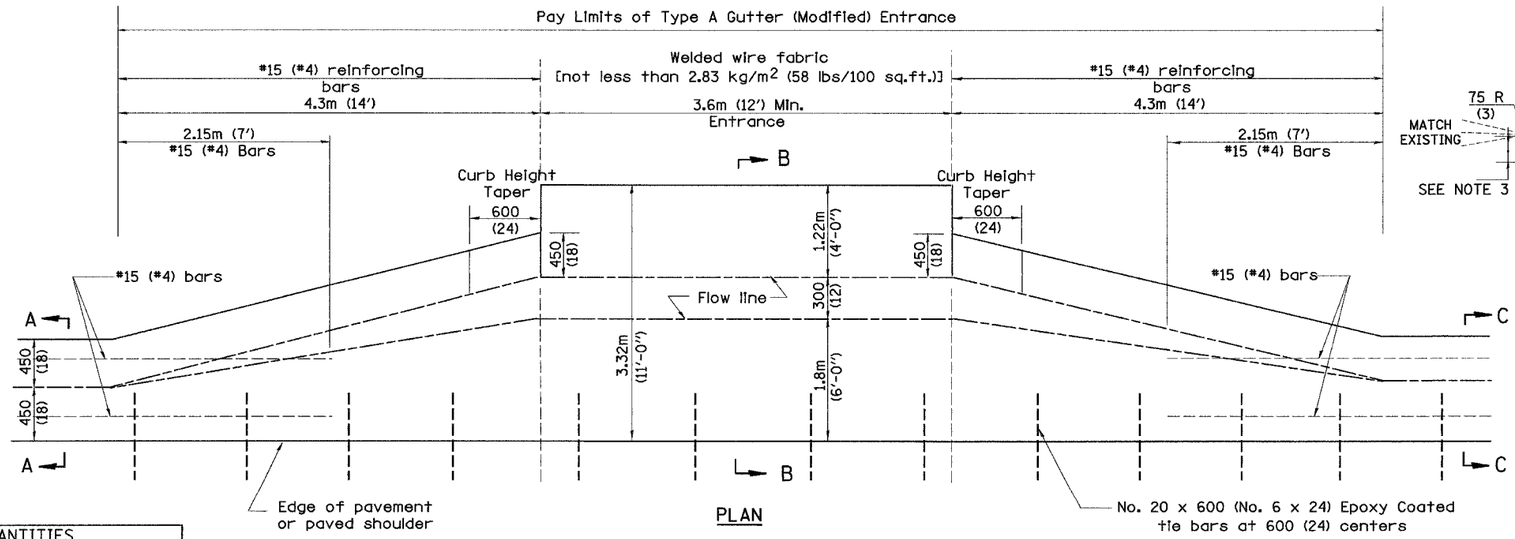
PLAN

TYPICAL URBAN ENTRANCE

QUANTITY CALCULATION			
LOCATION	*LENGTH*	*NON-COMMERCIAL 150 (6)*	*COMMERCIAL ENTRANCE 200 (8)*
Entrance Flare	2.15 m (7 Ft) Urban 4.30 m (14 Ft) Rural	0.37 Cu M / M (0.15 Cu Yd / Ft)	0.45 Cu M / M (0.18 Cu Yd / Ft)
Section B-B	See Plans	0.57 Cu M / M (0.23 Cu Yd / Ft)	0.70 Cu M / M (0.28 Cu Yd / Ft)



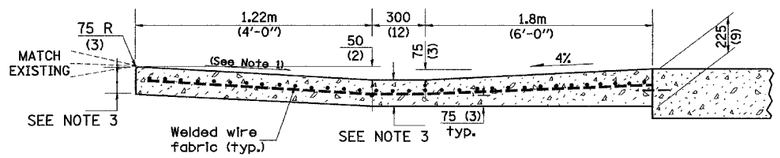
SECTION A-A & C-C



PLAN

TYPICAL RURAL ENTRANCE

ENTRANCE



SECTION B-B

GENERAL NOTES
1.) Slope may be increased from 4% (min.) to 6% (max.) in order to match the existing.

2.) The cross-slope is to be constructed as given in the plans from back turnout to where driveway matches existing.

3.) For Non-Commercial Entrances the driveway thickness shall be 150 (6). For Commercial Entrances the driveway thickness shall be 200 (8).

All dimensions are in millimeters (inches) unless otherwise noted.

QUANTITIES
CALC. BY: _____ DATE:
CHECKED BY: _____ DATE:
QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

$$DATE$$

DGN-ONLY

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

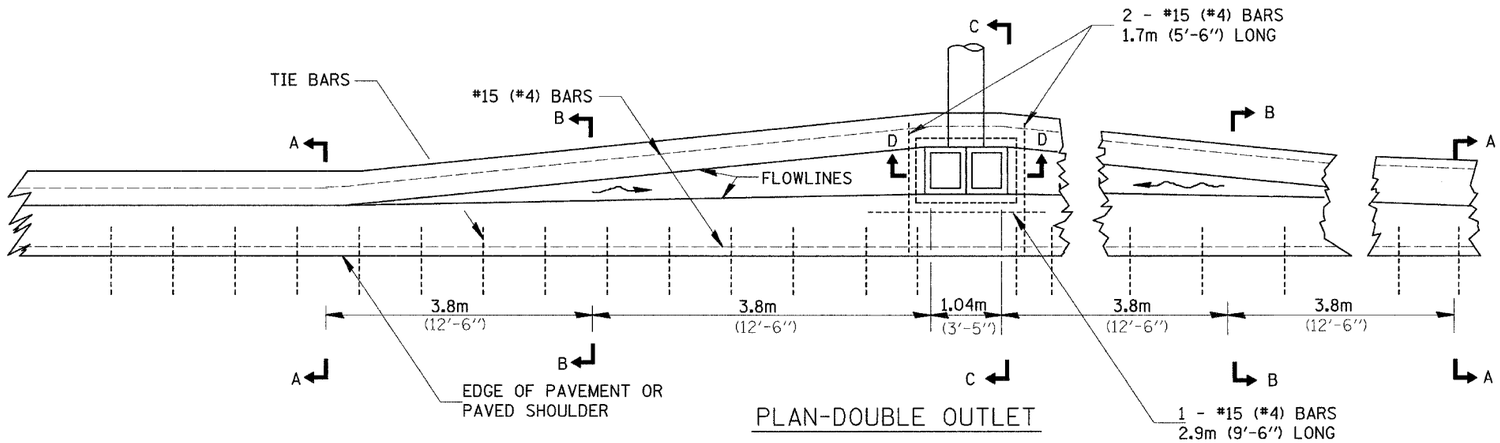
TYPE A GUTTER, (MODIFIED) (INLET, OUTLET & ENTRANCE)

CADD STANDARD 606101-D4 SHEET 3 OF 3
SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
DATE $$DATE$$ CHECKED BY

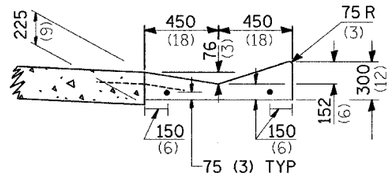
606101-D4 (3)

68201

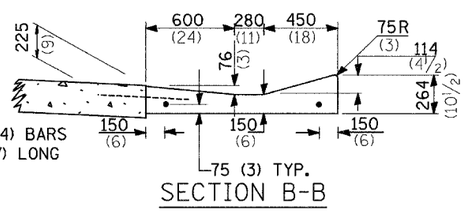
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	653
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



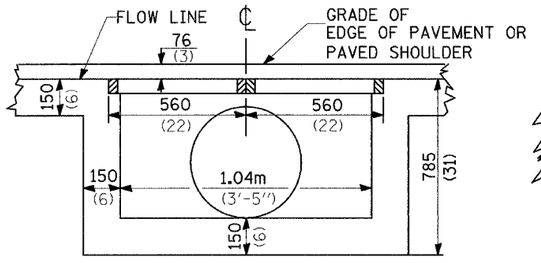
PLAN-DOUBLE OUTLET



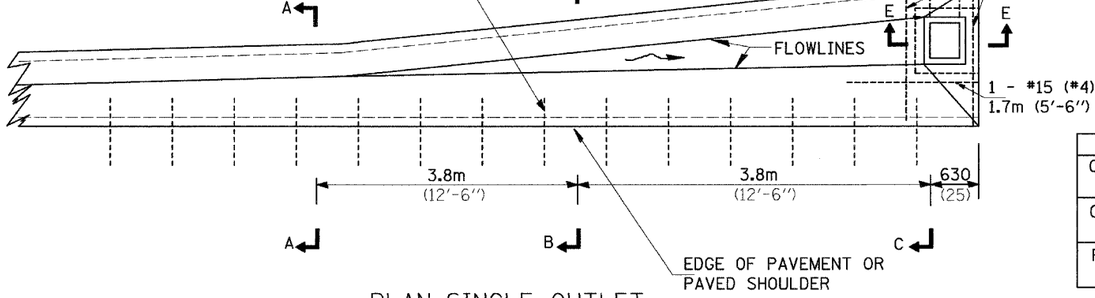
SECTION A-A



SECTION B-B



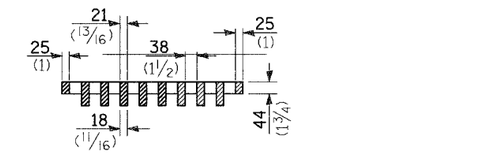
SECTION D-D
(DOUBLE INLET)

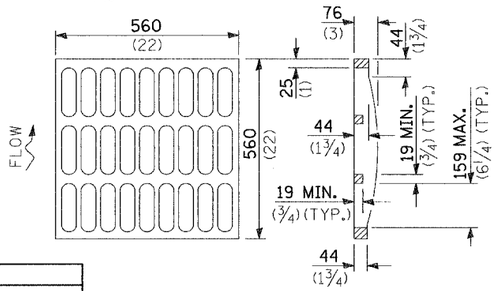


PLAN-SINGLE OUTLET

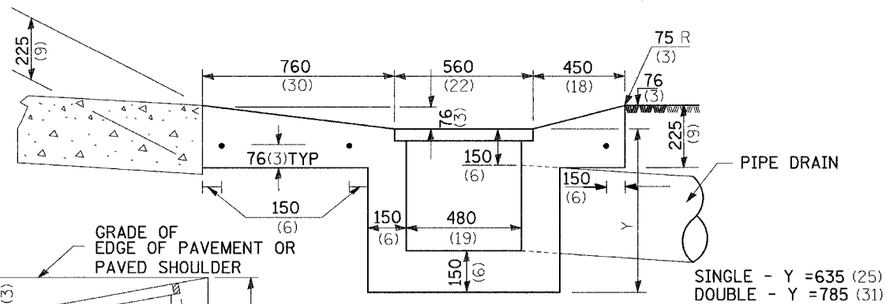
QUANTITIES

MATERIAL	SINGLE	DOUBLE
CONCRETE - m^3 (cu.yd.)	( )	( )
CAST IRON GRATE - Ea. 57 kg (125 lbs.)	1	2
PIPE DRAIN - DIA. mm (in.)	400 (15)	450 (18)

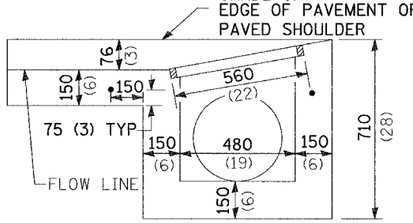




GRATE TYPE A



SECTION C-C



SECTION E-E
(SINGLE INLET)

GENERAL NOTES

The gutter outlet shall be tied to the pavement in accordance with details for longitudinal construction joint shown on Standard 420001.

Tie bars shall be No. 20 (No. 6) at 600mm (24") centers unless otherwise shown.

If the average grade of pavement for the distance A-D exceeds 2 %, this distance shall be increased 1.8m (6') for each 1 % increase in grade.

All dimensions are in millimeters (inches) unless otherwise noted.

DESIGNER NOTE:
1. INCLUDE STATE STANDARD 420001.
2. INCLUDE DISTRICT SPECIAL PROVISION.

QUANTITIES
CALC. BY: _____ DATE:
CHECKED BY: _____ DATE:
QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

$$DATE$$

DATE	REVISIONS	BY
1-1-97	RENUM. A-1.07, NEW REVISION BOX, ADDED DESIGNER NOTES.	T.P.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT CADD STANDARD

OUTLET TYPE 1 (MODIFIED) FOR TYPE A GUTTER (MODIFIED)

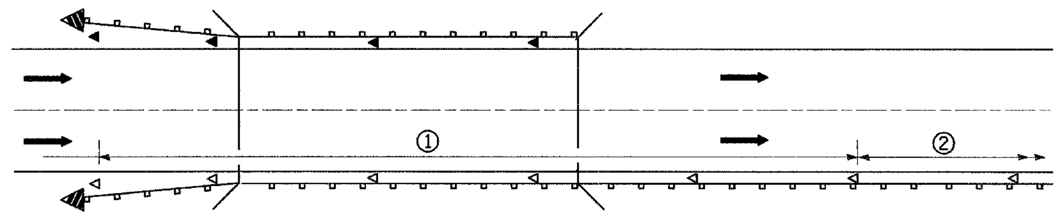
CADD STANDARD 606106-D4

NOT DRAWN TO SCALE
DATE $$DATE$$
DRAWN BY CADD
CHECKED BY

606106-D4

DGN-ONLY

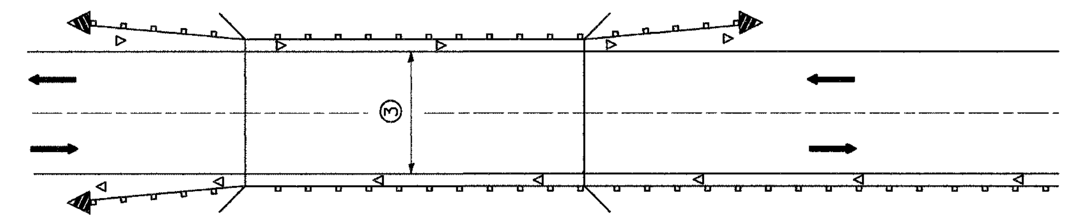
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	659
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



① Spacing 24 m (80 ft.) max. for first 122 m (400 ft.) or curve spacing shown in Standard 635001, whichever is less (min. 4 reflectors regardless of length).

② After 122 m (400 ft.), transition to normal delineator spacing shown in Standard 635001, and continue as required.

ONE-WAY TRAFFIC



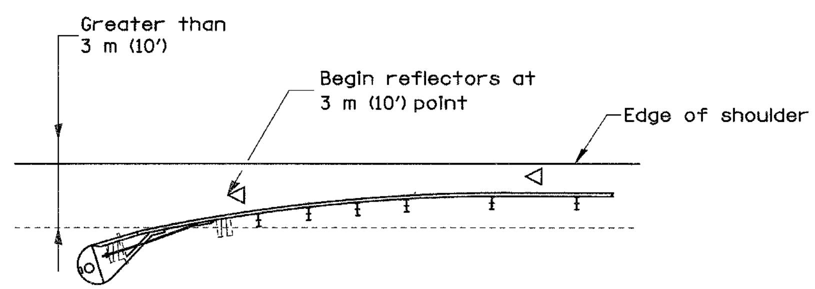
③ Bidirectional silver/silver should be used in lieu of monodirectional silver on both sides of two-lane bridges where the bridge pavement is less than 610 (24) wider than the pavement approaching the bridge.

TWO-WAY TRAFFIC

GUARDRAIL / BARRIER WALL / BRIDGE RAIL REFLECTORS

LEGEND

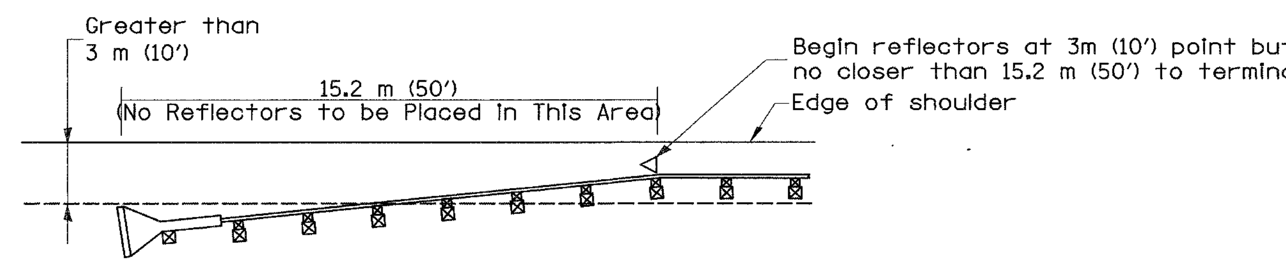
- ◁ Monodirectional silver
- ◀ Monodirectional amber
- Terminal Marker - Black/Yellow Left or Right as appropriate



NOTE: Omit terminal marker when terminal over 3 m (10') from edge of paved shoulder or break point of unpaved shoulder, or when terminal buried in backslope.

Traffic Barrier Terminal Type(•) and/or Turned-Down Terminal

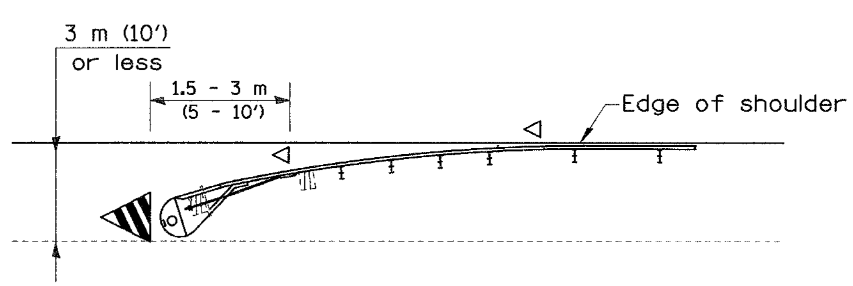
[Terminal over 3 m (10') from edge of shoulder]
•See Plans for Type



NOTE: Omit terminal marker when terminal over (10') from edge of paved shoulder or break point of unpaved shoulder.

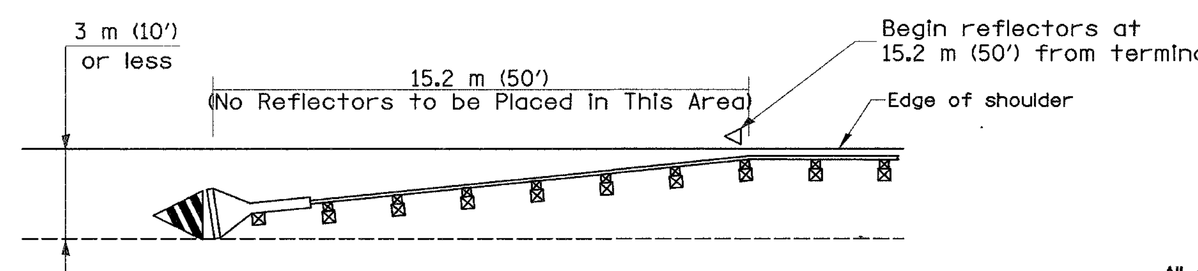
Traffic Barrier Terminal Type 1 (Special)

[Terminal over 3 m (10') from edge of shoulder]



Traffic Barrier Terminal Type(•) and/or Turned-Down Terminal

[Terminal over 3 m (10') or less from edge of shoulder]
•See Plans for Type



Traffic Barrier Terminal Type 1(Special)

[Terminal 3 m (10') or less from edge of shoulder]

TERMINAL MARKER PLACEMENT

1. INCLUDE APPROPRIATE SPECIAL PROVISIONS FOR GUARD RAIL DELINEATION POLICY: 1. TERMINAL MARKER, 2. TERMINAL MARK POST, AND 3. GUARDRAIL AND BARRIER WALL MARKERS. FROM INTERIM SPECIAL PROVISIONS 94-74; "GUARDRAIL AND BARRIER WALL DELINEATION."
2. IF POST MOUNT TERMINAL MARKER IS USED, INCLUDE STATE STD. 720011.

$$DATE$$

All dimensions are in millimeters (inches) unless otherwise noted.

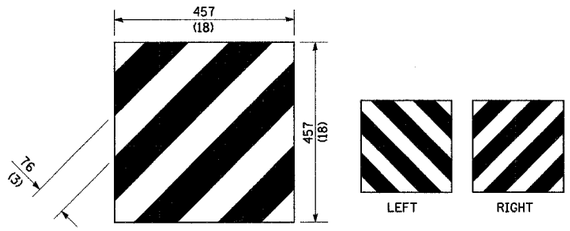
DATE	REVISIONS	BY
1-1-97	RENUM. E-10.02, NEW REVISION BOX	T.P.
3-1-97	CORRECT STD. SPEC. *	J.A.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

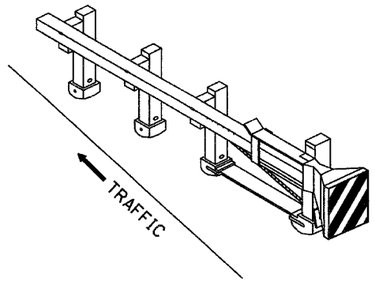
GUARDRAIL AND BARRIER WALL DELINEATION

CADD STD. NO. 635101-D4 SHEET 1 OF 3
SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
DATE $$DATE$$ CHECKED BY

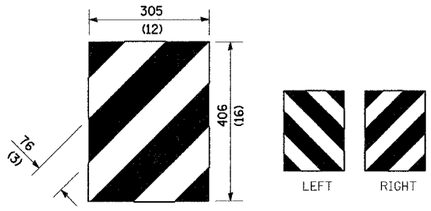
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	660
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



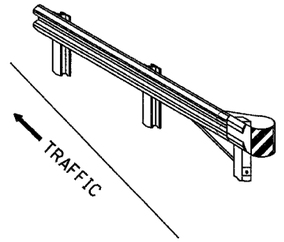
For Traffic Barrier Terminal Type 1 (Special)



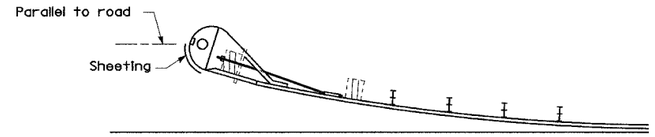
Standard Treatment - Direct Applied Sheeting
Traffic Barrier Terminal Type 1 (Special)



For Traffic Barrier Terminal Type (•)
and Post Mount
• See Plans for Type



Standard Treatment - Direct Applied Sheeting
Traffic Barrier Terminal Type (•)
• See Plans for Type



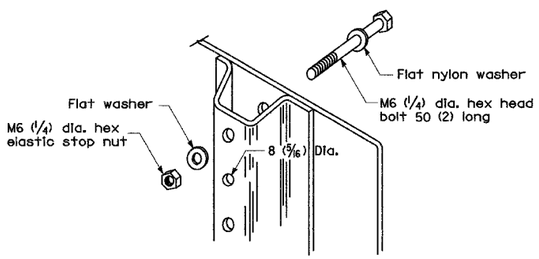
Sheeting Position for
Traffic Barrier Terminal Type (•)
• See Plans for Type

TERMINAL MARKER DETAILS

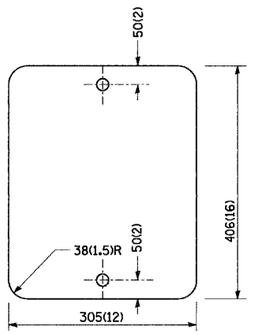
Color: Black / Yellow reflectorized

OM - I100 (L or R) Direct applied reflective sheeting

OM - I200 (L or R) Post mounted

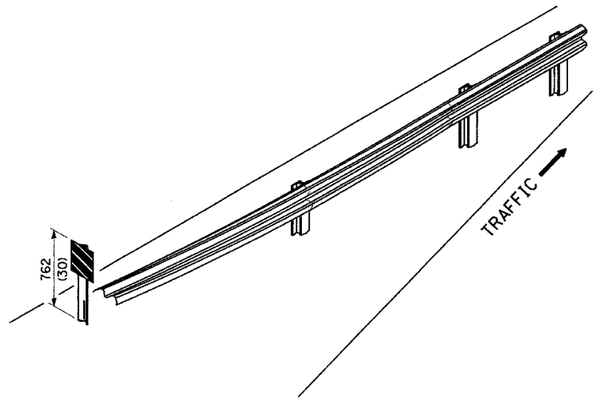


DETAIL OF MOUNTING TERMINAL MARKER TO POST



STANDARD TERMINAL MARKER

POST MOUNTED TERMINAL MARKER ASSEMBLY



ALTERNATE TREATMENT - POST MOUNTED
(For turned-down terminal where sheeting cannot be direct applied)

TERMINAL MARKER TREATMENTS

GENERAL NOTES

All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

GUARDRAIL AND
BARRIER WALL DELINEATION

CADD STD. NO. 635101-D4 SHEET 2 OF 3
SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
DATE $$DATE$$ CHECKED BY

635101-D4 (2)

$$DATE$$

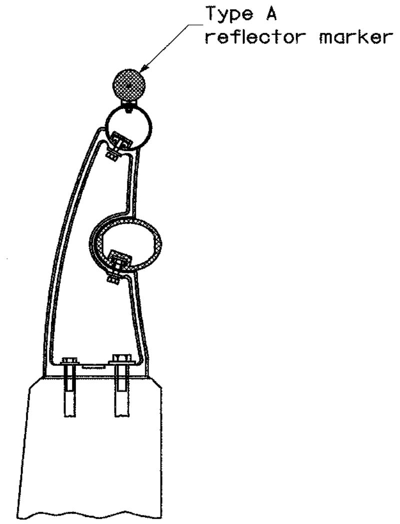
DGN-ONLY

\roadway\d635us\d635us11.dgn 12/16/2004 4:16:38 PM

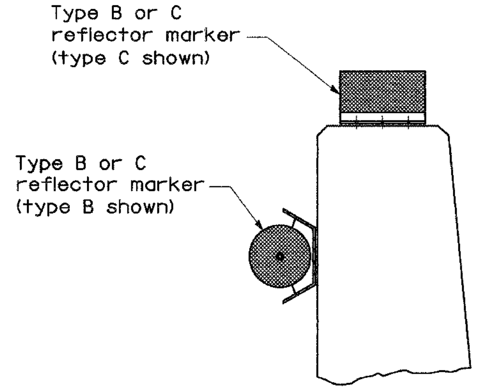
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	661

STA. TO STA.

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

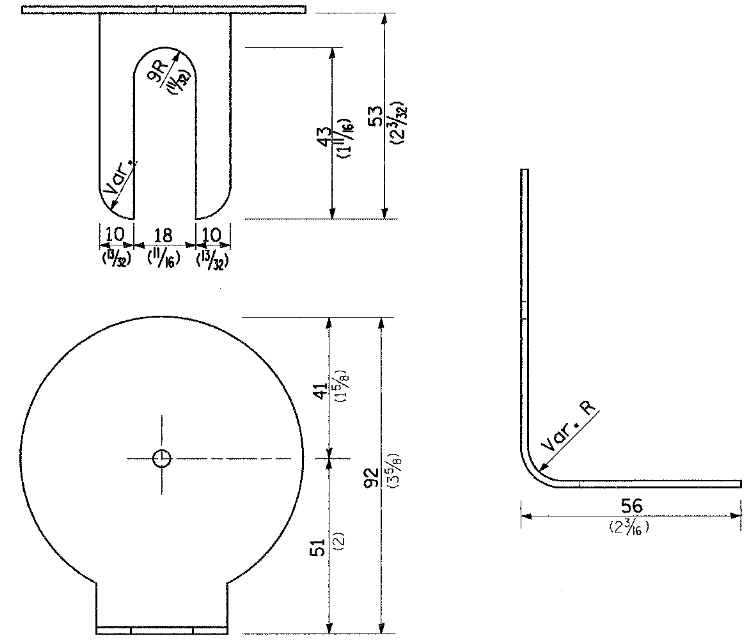


TYPICAL MOUNTING DETAIL
FOR BRIDGE RAIL REFLECTOR

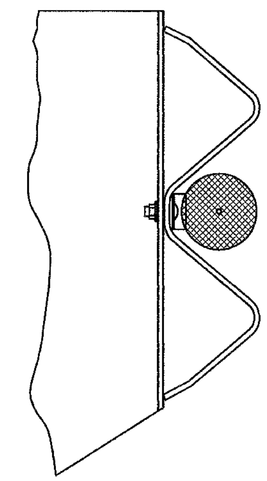


TYPICAL MOUNTING DETAIL
FOR BARRIER WALL REFLECTOR

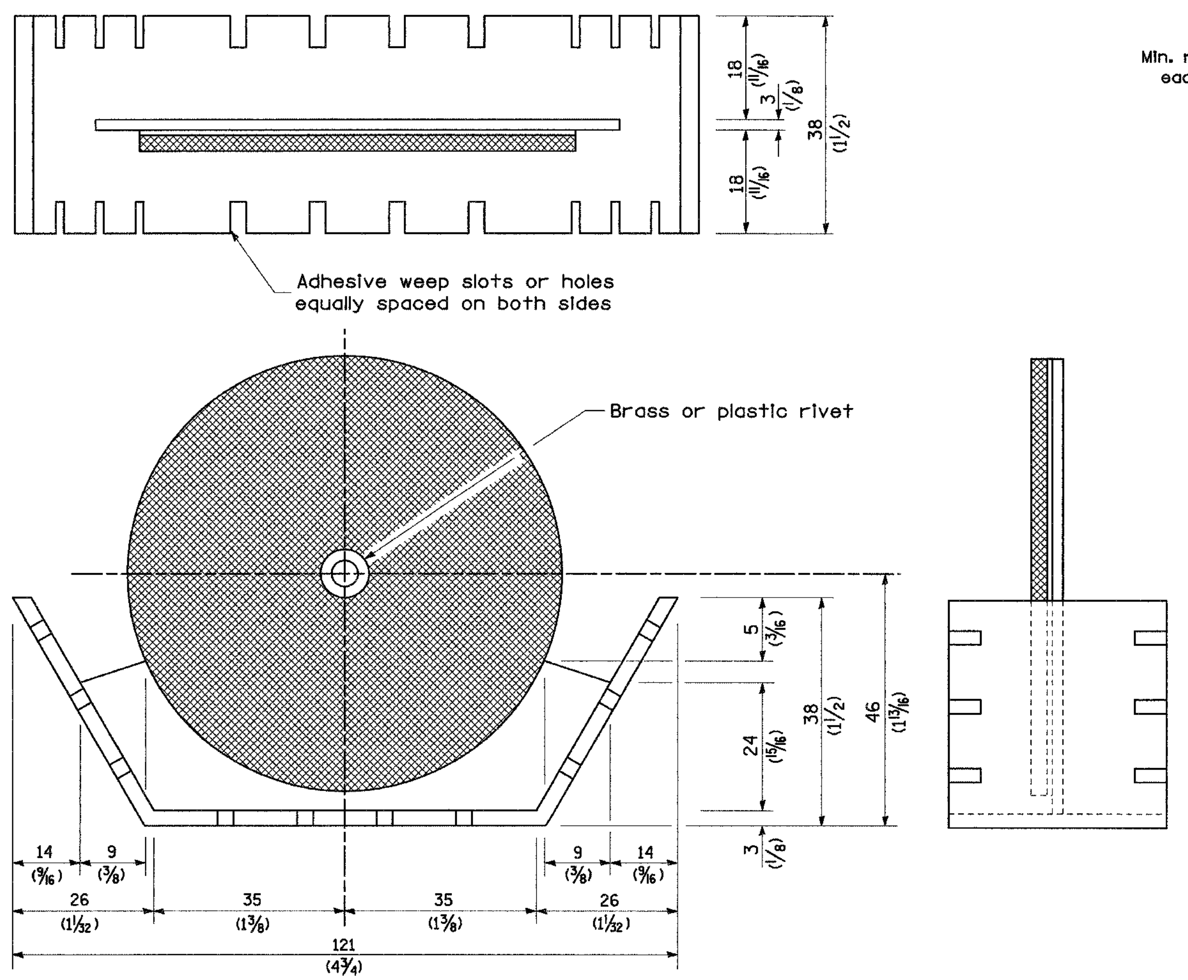
REFLECTOR MOUNTING



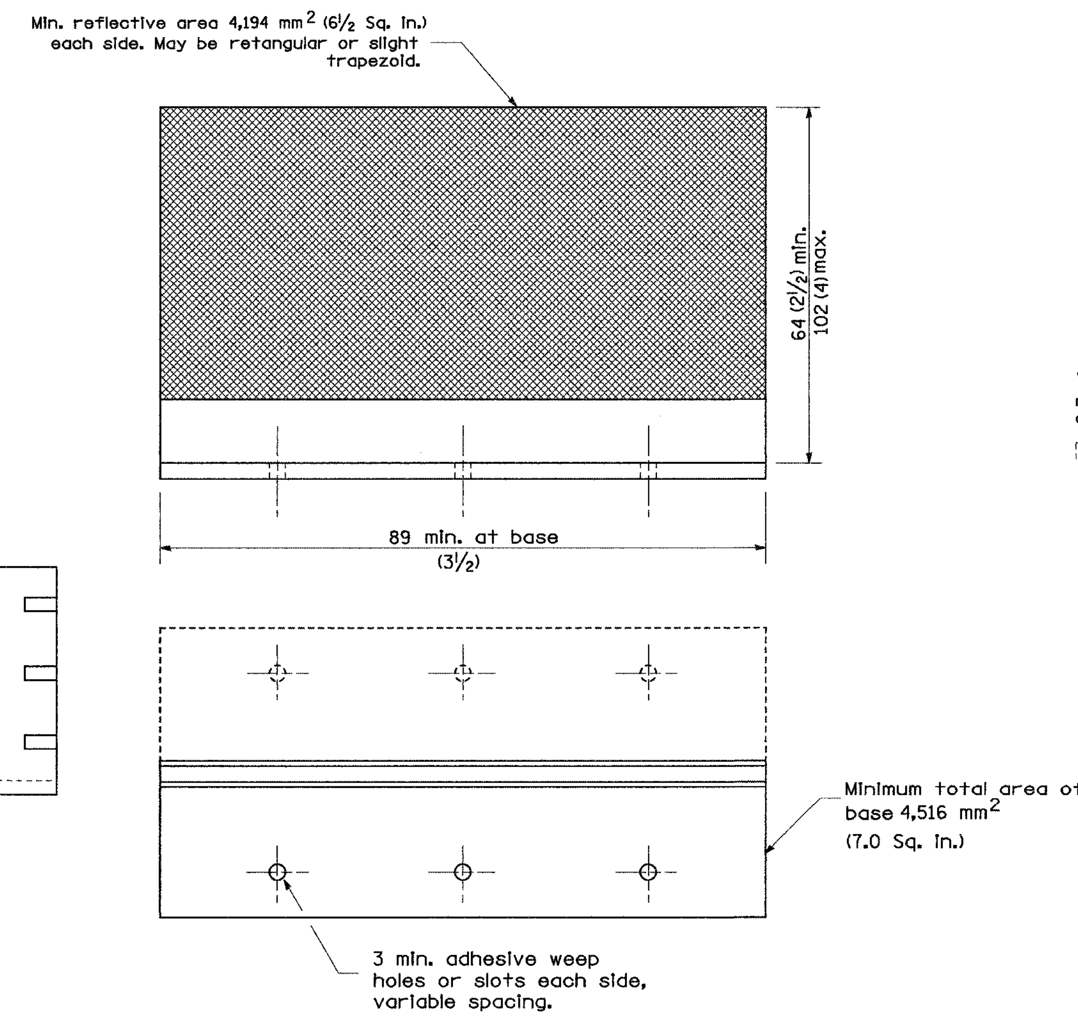
REFLECTOR MARKER TYPE A



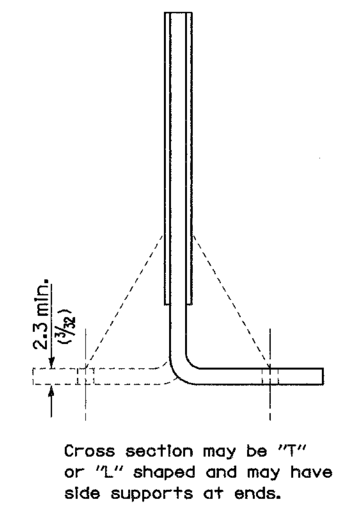
TYPICAL GUARDRAIL MOUNTING WITH
REFLECTOR MARKER TYPE A



REFLECTOR MARKER TYPE B



REFLECTOR MARKER TYPE C



REFLECTORS

All dimensions are in millimeters
(inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

GUARDRAIL AND
BARRIER WALL DELINEATION

CADD STD. NO. 635101-D4 SHEET 3 OF 3
SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
DATE $$DATE$$ CHECKED BY

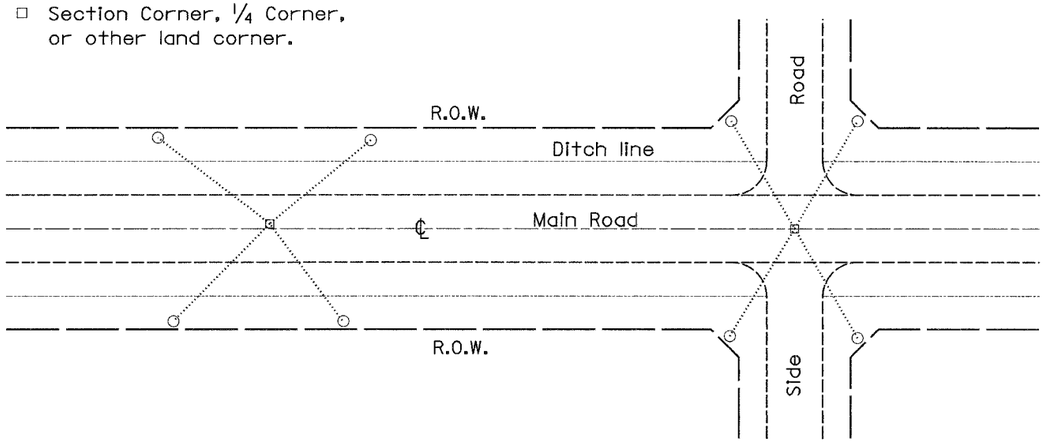
635101-D4 (3)

68201

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	662
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PERMANENT SURVEY TIES

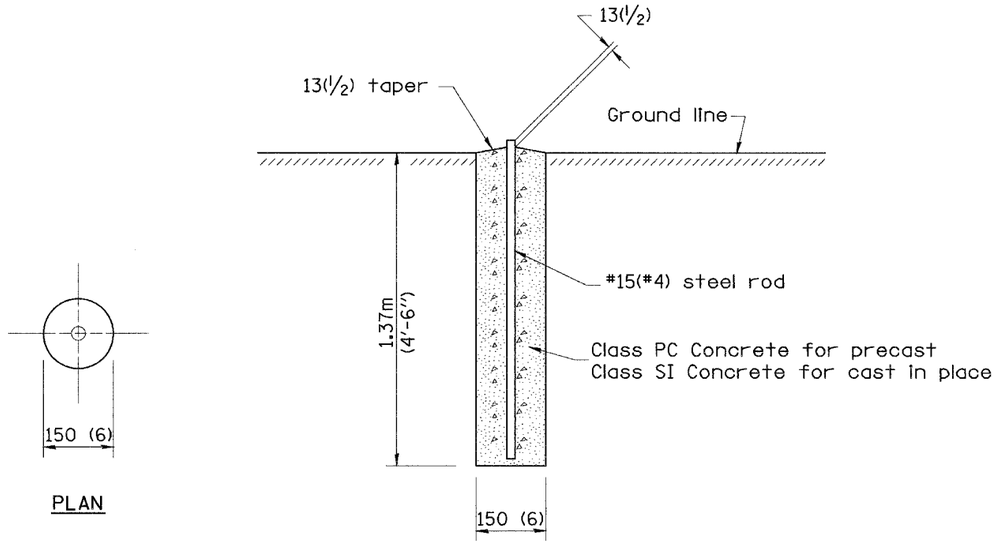
○ Permanent Survey Tie
□ Section Corner, 1/4 Corner, or other land corner.



TYPICAL APPLICATION

GENERAL NOTES

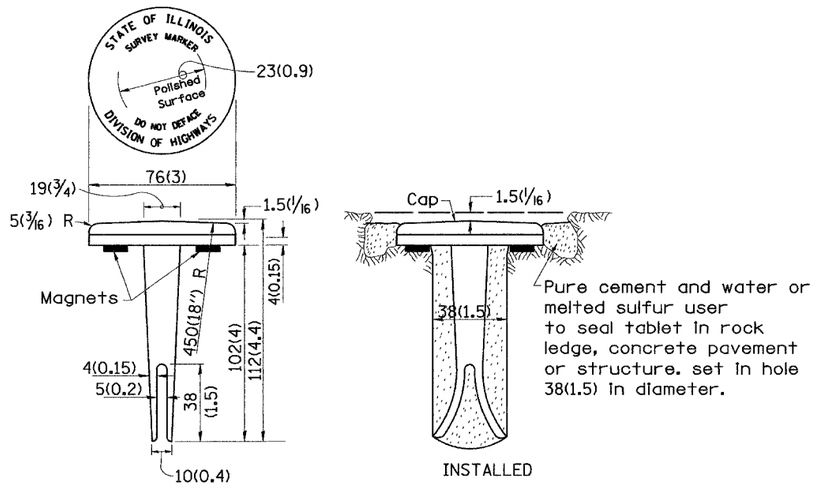
1. The marker may be either precast of Class PC Concrete, or cast in place of Class SI Concrete.
2. Tie marker shall be installed after the final seeding has been completed unless otherwise specified by the Engineer.
3. The tie distances to the section corner shall be measured and recorded by the IDOT Chief of Surveys.



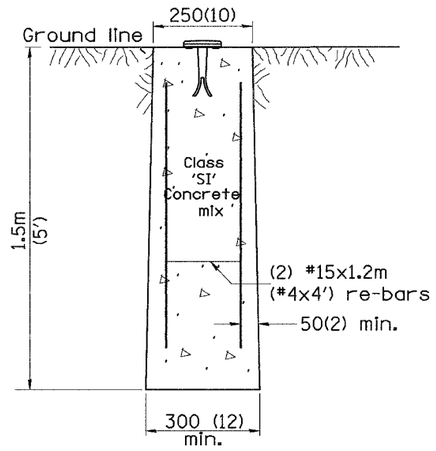
PLAN

SECTION

PERMANENT SURVEY MARKERS



BRONZE TABLET - No Scale
TYPE I



MARKER CAST IN PLACE
TYPE II

GENERAL NOTES

1. All type II markers shall be cast in place, and precast markers will not be allowed.
2. Two permanent magnets, each having a diameter of 19 (3/4) and a thickness of 6 (1/4), or equivalent, shall beattached to the underside of the tablet with an approved epoxy bonding agent.
3. The location of the markers shall be in accordance with the plans in general, the markers will be placed at the P.T.'s and P.C.'s of horizontal curves and spaces along the tangents in a way that a minimum of two markers are alway inter-visible, and not to exceed 300m(1000').
4. The markers shall be placed under the direction of the Engineer and shall be installed in a workmanlike manner in order that there will be no further settlement or horizontal shifting. The monuments shall be placed in a way that the survey point will fall within the portion of the plaque provided for that purpose.
5. The project designation, the centerline station, the survey point, and the elevation shall be permanently marked by the use of metal dies after marker has been installed.

All dimensions are in millimeters (inches) unless otherwise noted.

DATE	REVISIONS	BY
1-1-97	RENUM. D-3.01, NEW REVISION BOX	T.P.
	ADD DESIGNER NOTE, REVISED TITLE BOX	
7-7-98	ADD DESIGNER NOTE	J.A.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

PERMANENT SURVEY TIE
&
PERMANENT SURVEY MARKERS TY.I - TY.II

CADD STD. NO. 667101-D4
SCALE: NOT DRAWN TO SCALE — DRAWN BY CADD
DATE $$DATE$$ — CHECKED BY

667101-D4

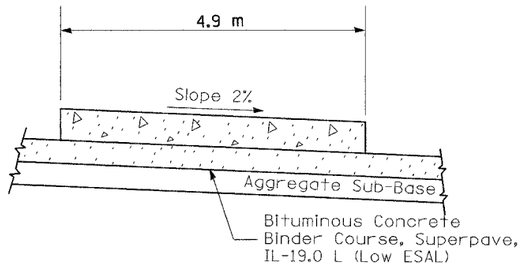
1. ADD DISTRICT SPECIAL PROVISION.
2. MODIFIES STATE STD 667101 TO CALL FOR "BRONZE" TABLET.

$$DATE$$

DGN-ONLY

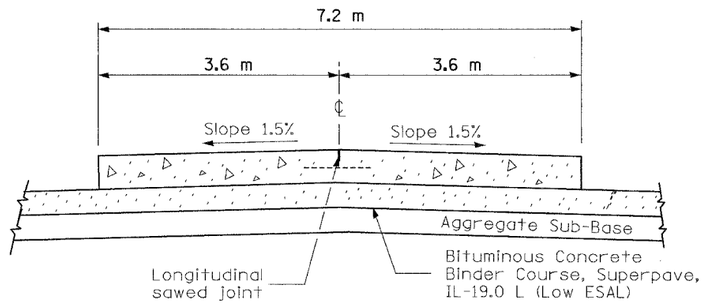
68201

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	663
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



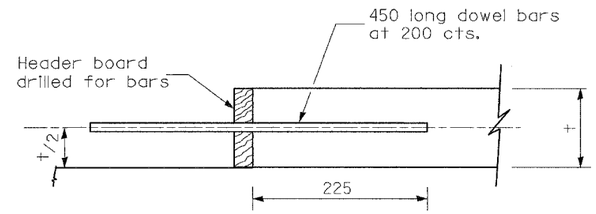
SECTION A-A

(TYPICAL 1-LANE RAMP WITH SHOULDERS)

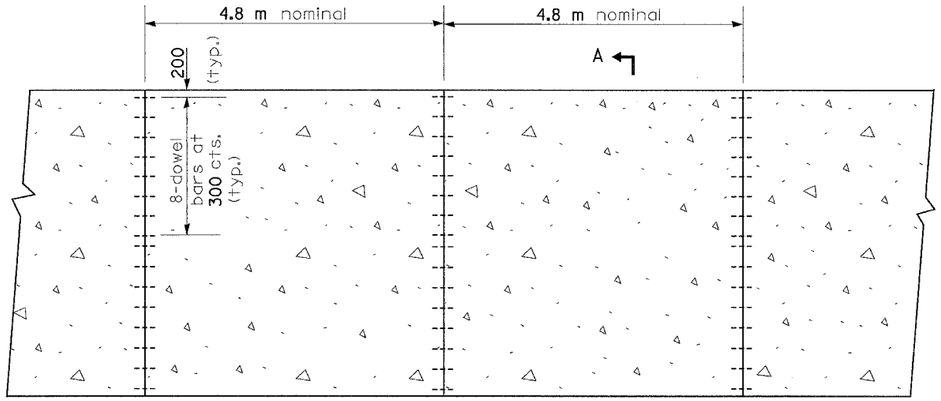


SECTION B-B

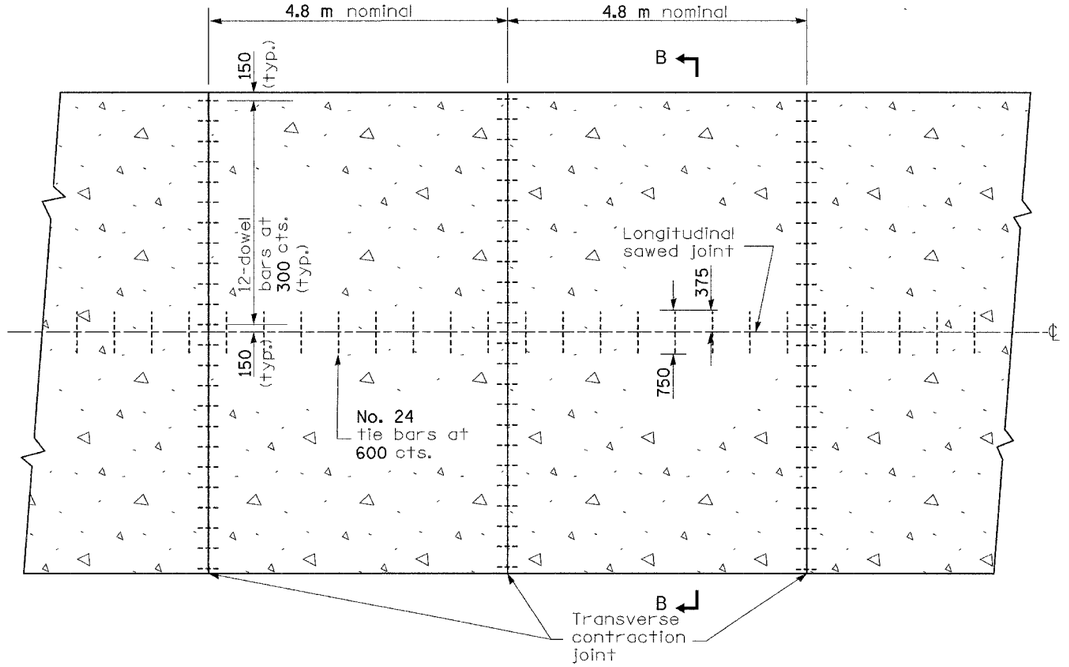
(TYPICAL 2-LANE RAMP WITH SHOULDERS)



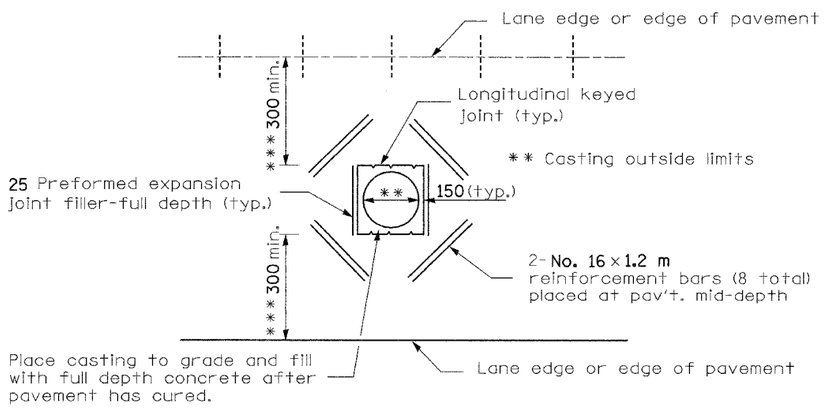
TRANSVERSE CONSTRUCTION JOINT



1-LANE RAMP PLAN



2-LANE RAMP PLAN



DETAIL OF ADDED REINFORCEMENT
FOR PAVEMENT BLOCKS-OUTS

A longitudinal sawed joint or a longitudinal construction joint with No. 24 tie bars at 600 cts. shall be provided when the width of ramp pavement exceeds 4.9 m.

*** When the 300 minimum cannot be achieved, the transverse joints shall be extended to either the longitudinal joint or edge of pavement.

GENERAL NOTES

Details of joints as shown on Standard 420001 except as otherwise shown herein.

All dimensions are in millimeters unless otherwise shown.

REVISIONS	
NAME	DATE
INC. COMMENTS	3/7/02
REM. ENGL.	3/22/02
REM C-JOINT	12/9/02
H.S. 2004	9/26/03

ILLINOIS DEPARTMENT OF TRANSPORTATION

I-74 PROJECT STANDARD 420101-I74

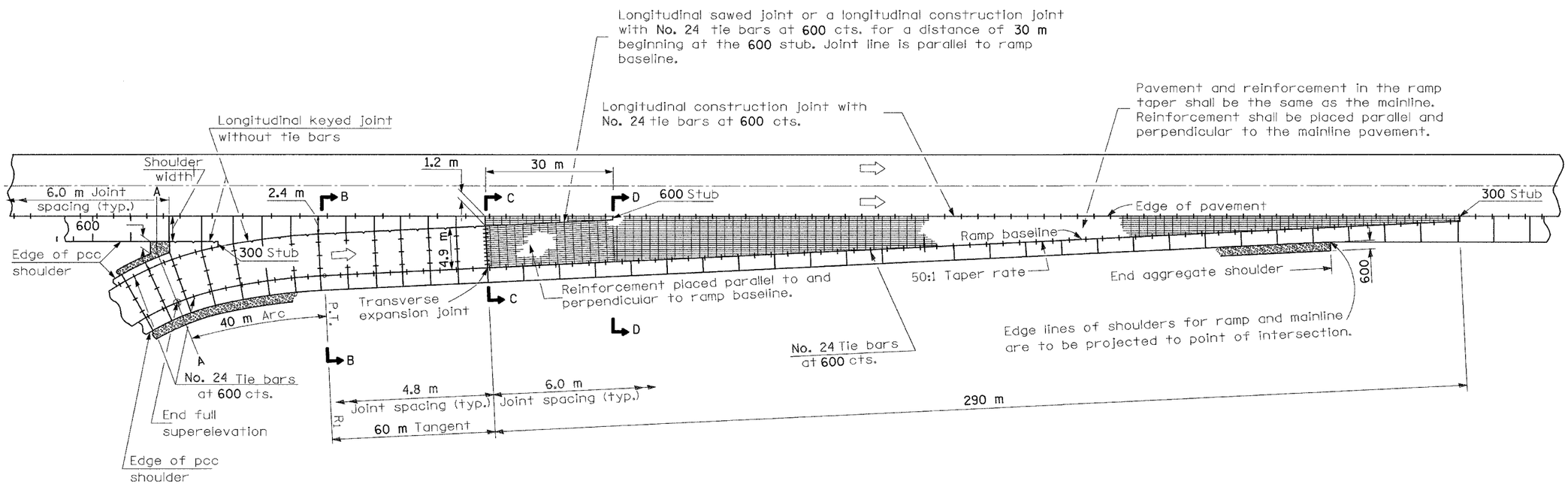
JOINTED PCC PAVEMENT FOR RAMPS

DRAWN BY

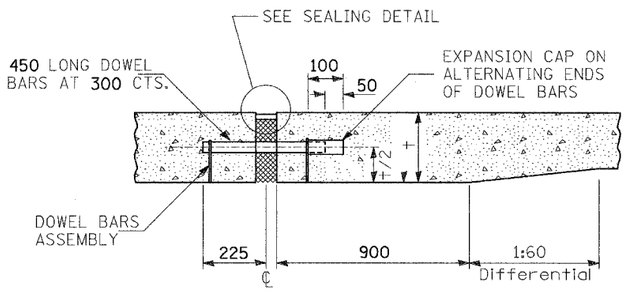
DATE 9/21/01 CHECKED BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	664
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

69201

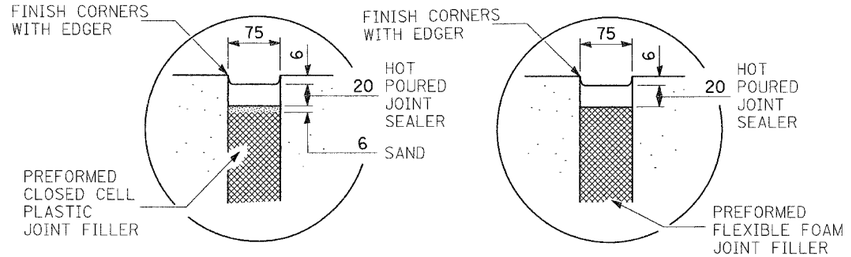


PLAN



TRANSVERSE EXPANSION JOINT *

* FOR EXPANSION JOINTS FORMED USING A CONSTRUCTION HEADER, THE EXPANSION CAPS SHALL BE INSTALLED ON THE EXPOSED END OF EACH BAR ONCE THE HEADER HAS BEEN REMOVED AND THE JOINT FILLER MATERIAL HAS BEEN INSTALLED



SEALING DETAIL

GENERAL NOTES

Detail of ramp terminal as shown on Standard 420206 except as otherwise shown herein.

All pavement joints shall be detailed as shown on Standard 420001 and I-74 Project Standard 483001-I74 except as otherwise shown herein.

The mainline pavement/shoulder thickness and the ramp pavement/shoulder thickness should be transitioned at the transverse expansion joint and at the longitudinal keyed joint.

A longitudinal sawed joint or a longitudinal construction joint with No. 24 tie bars at 600 cts. shall be provided when the width of ramp pavement exceeds 4.9 m.

See I-74 Project Standard 483001-I74 for ramp shoulder details.

All dimensions are in millimeters unless otherwise shown.

REVISIONS	
NAME	DATE
INC. COMMENTS	3/7/02
REM. ENGL.	3/22/02
REM. C. JOINT	4/17/02
ADD 3RD NOTE	8/15/02
H.S. 2004	9/26/03

ILLINOIS DEPARTMENT OF TRANSPORTATION

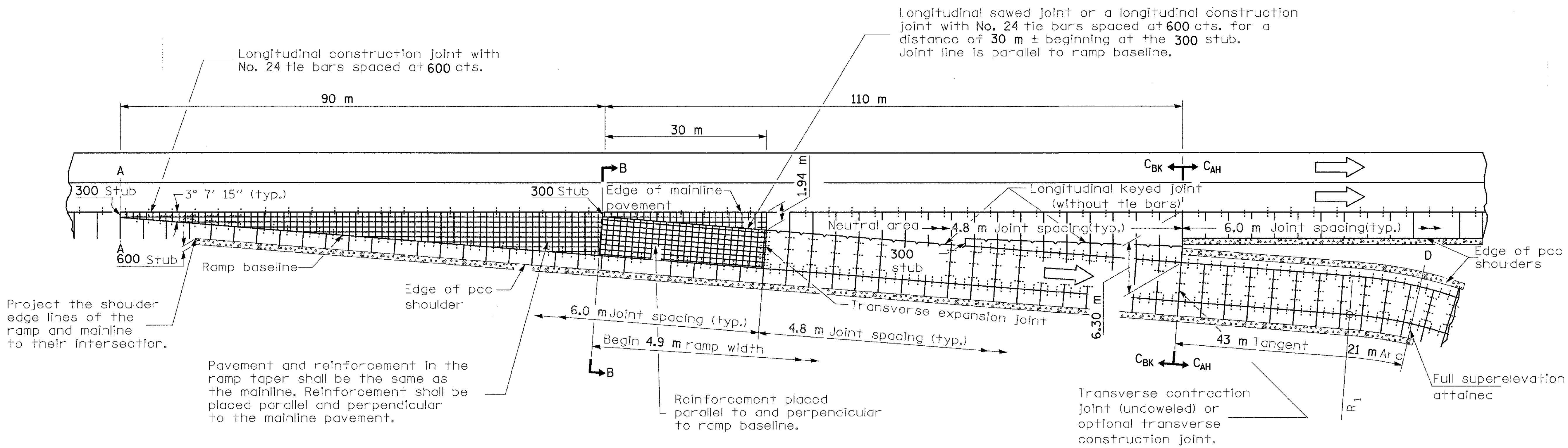
I-74 PROJECT STANDARD 420206-I74

TYPICAL ENTRANCE RAMP TERMINAL

(JOINTED PCC RAMP ADJACENT TO CRC PAVEMENT)

DRAWN BY

DATE 02/26/2002 CHECKED BY



PLAN

BK = Back
AH = Ahead

GENERAL NOTES

Detail of ramp terminal as shown on Standard 420306 except as otherwise shown herein.

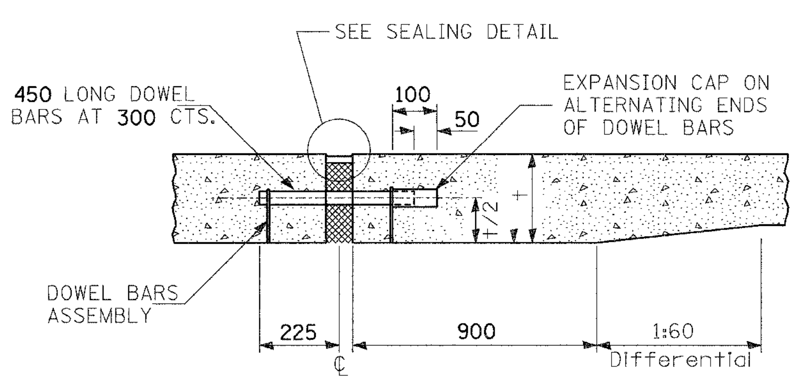
All pavement joints shall be detailed as shown on Standard 420001 and I-74 Project Standard 483001-I74, except as otherwise shown herein.

The mainline pavement/shoulder thickness and the ramp pavement/shoulder thickness should be transitioned at the transverse expansion joint and at the longtitudinal keyed joint.

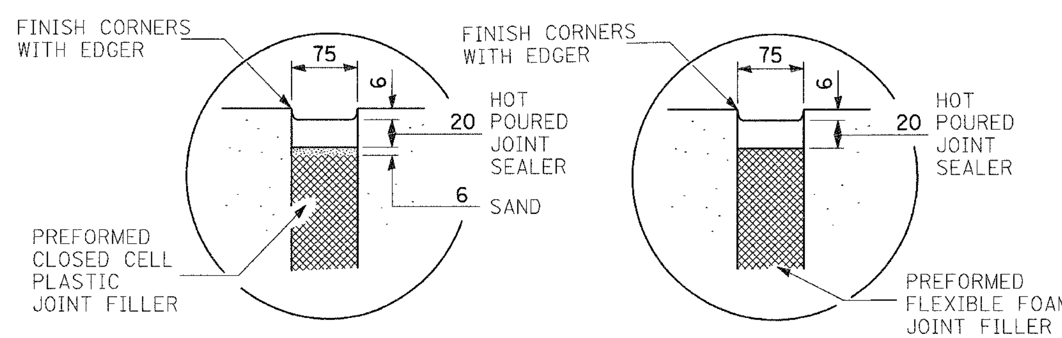
A longitudinal sawed joint or a longitudinal construction joint with No. 24 tie bars at 600 cts. shall be provided when the width of ramp pavement exceeds 4.9 m.

See I-74 Project Standard 483001-I74 for ramp shoulder details.

All dimensions are in millimeters unless otherwise shown.



TRANSVERSE EXPANSION JOINT *



SEALING DETAIL

* FOR EXPANSION JOINTS FORMED USING A CONSTRUCTION HEADER, THE EXPANSION CAPS SHALL BE INSTALLED ON THE EXPOSED END OF EACH BAR ONCE THE HEADER HAS BEEN REMOVED AND THE JOINT FILLER MATERIAL HAS BEEN INSTALLED

REVISIONS	
NAME	DATE
INC. COMMENTS	3/7/02
REM. ENGL.	3/22/02
REM. C. JOINT	4/17/02
ADD 3RD NOTE	8/15/02
JOINT SPACING	5/6/03
H.S. 2004	9/26/03

ILLINOIS DEPARTMENT OF TRANSPORTATION

I-74 PROJECT STANDARD 420306-I74

TYPICAL EXIT RAMP TERMINAL

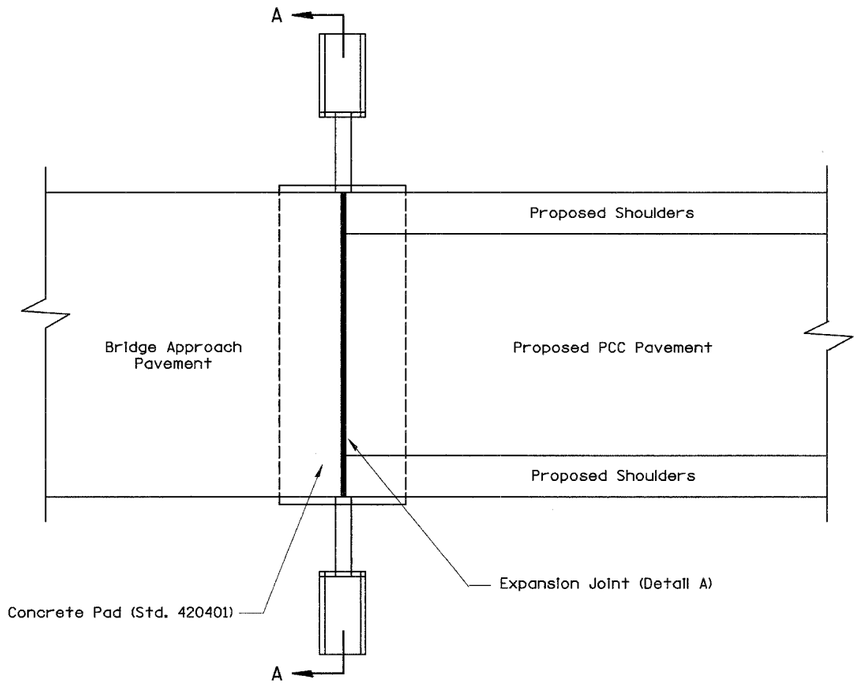
(Jointed PCC Ramp Adjacent To CRC Pavement)

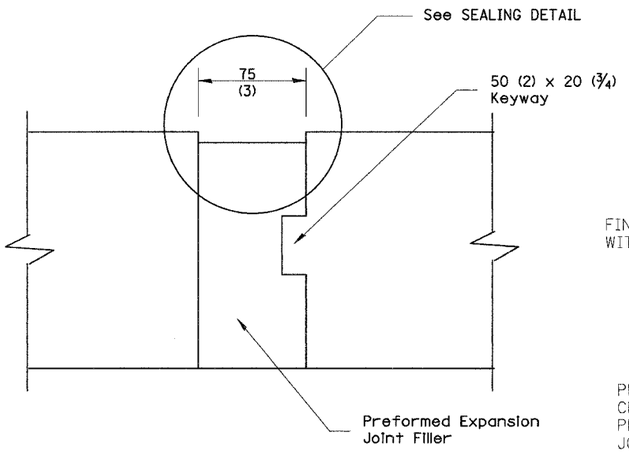
DRAWN BY

DATE 02/26/2002

CHECKED BY

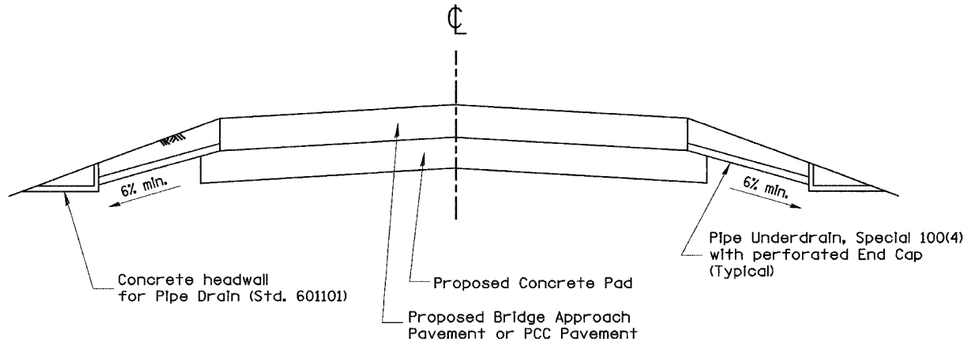
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1966	666
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



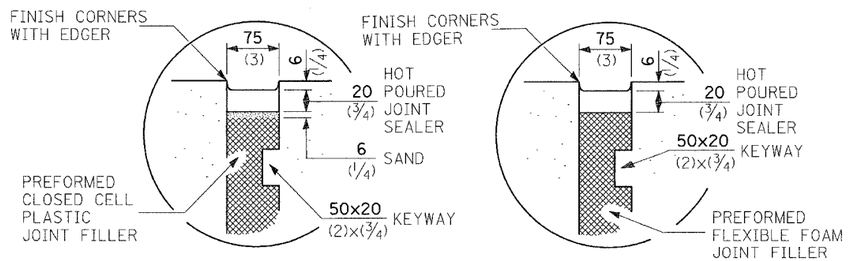


DETAIL A - EXPANSION JOINT

Preformed Expansion Joint Filler shall meet the requirements of Article 1051.08 or 1051.09 and shall be supplied as 75 (3) in width. The expansion joint shall be constructed in accordance with Articles 420.10(c) and 420.14.



SECTION A-A



SEALING DETAIL

GENERAL NOTES:

1. All work shall be done in accordance with Standard 420401 and other plan details except as shown herein.
2. The concrete headwalls and pipe underdrain special will be in accordance with Section 601.

All dimensions are in millimeters (inches) unless otherwise noted.

DESIGNER NOTES:
1. Include Standards 420001, 601101 and 420401 in plans.

REVISIONS	
NAME	DATE
H.S. 2004	9/26/03

ILLINOIS DEPARTMENT OF TRANSPORTATION

I-74 PROJECT STANDARD 420402-I74

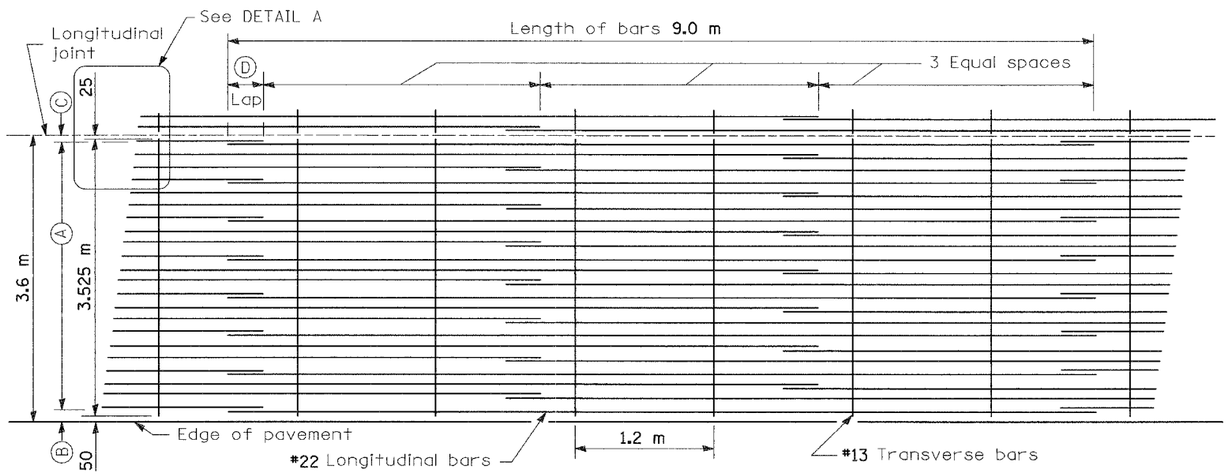
MAINLINE AND RAMP BRIDGE APPROACH EXPANSION JOINT DETAIL

DRAWN BY

DATE 11/14/02 CHECKED BY

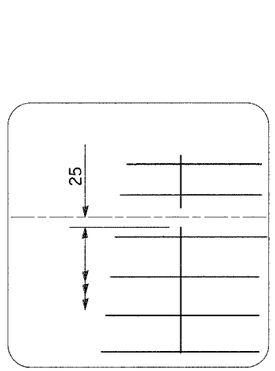
68201

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	667
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

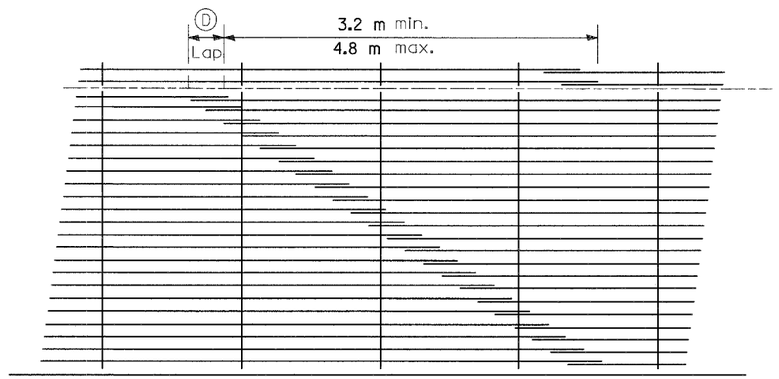


LAP DETAIL I

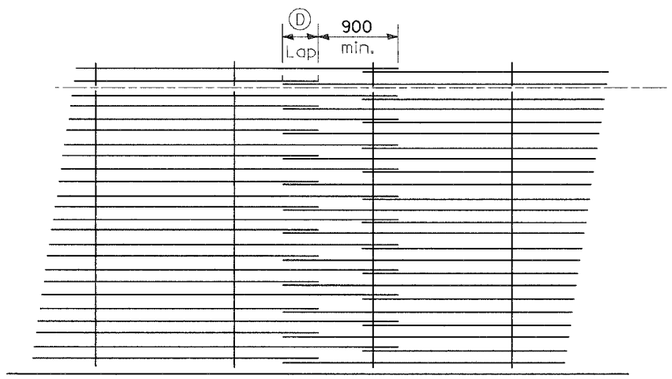
METRIC (mm)					
Bar Size	Pavement Thickness	Ⓐ (Approx. Spacing)	Ⓑ	Ⓒ	Ⓓ
#22	290	21 spaces (22 bars) @ 163	100	75	660



DETAIL A



LAP DETAIL II



LAP DETAIL III

GENERAL NOTES

Except as noted or shown the dimensions and notes specified for LAP DETAIL I are typical for LAP DETAIL II and III.

The Ⓑ dimension and the distance from the end of the transverse bar to the edge of pavement may be increased by 25 mm for slip form paving.

All dimensions are in millimeters unless otherwise shown.

REVISIONS	
NAME	DATE
REVISED TABLE	3/7/02
H.S. 2003	9/26/03

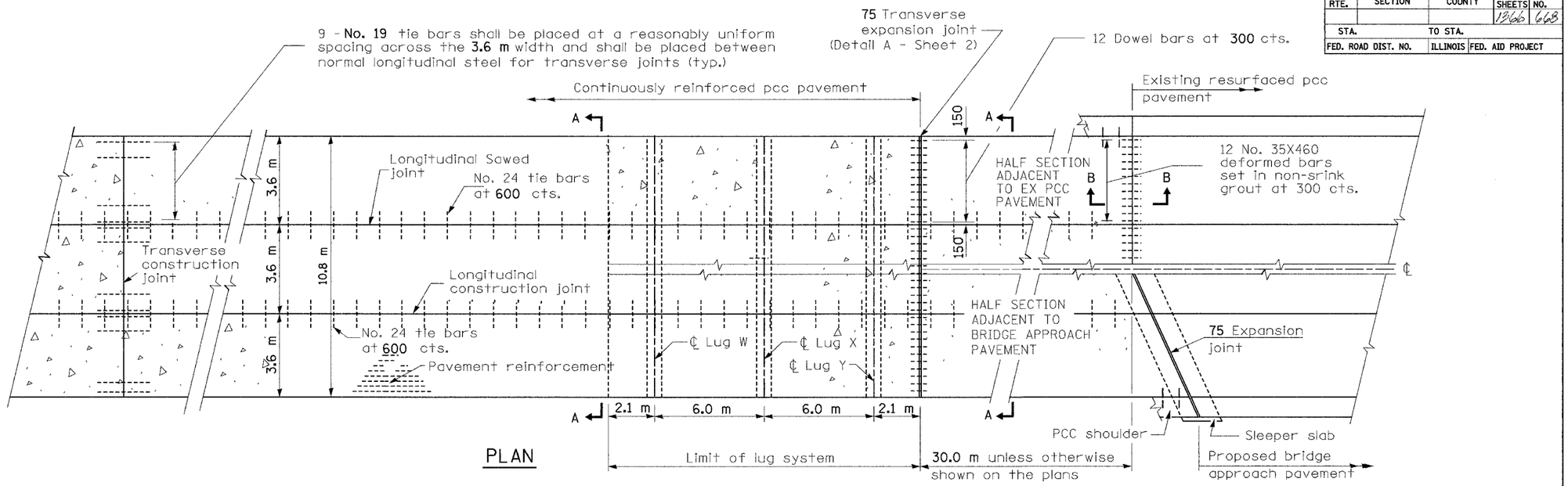
ILLINOIS DEPARTMENT OF TRANSPORTATION

I-74 PROJECT STANDARD 421001-I74

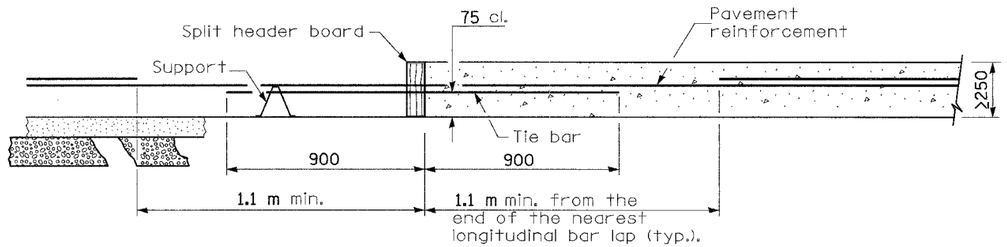
BAR REINFORCEMENT FOR CRC PAVEMENT

DATE 9/21/01

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	668
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

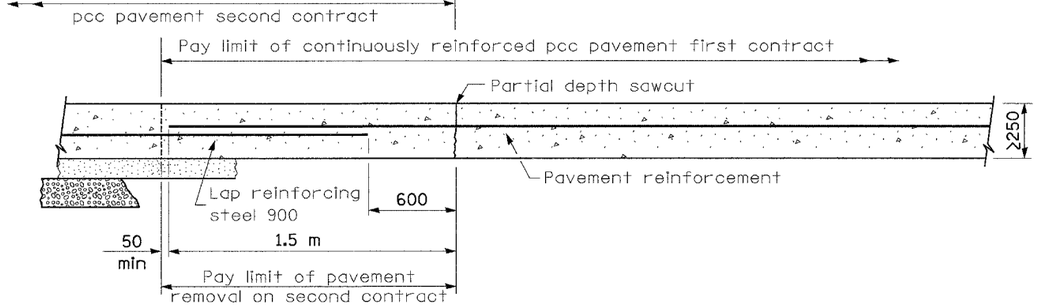


PLAN



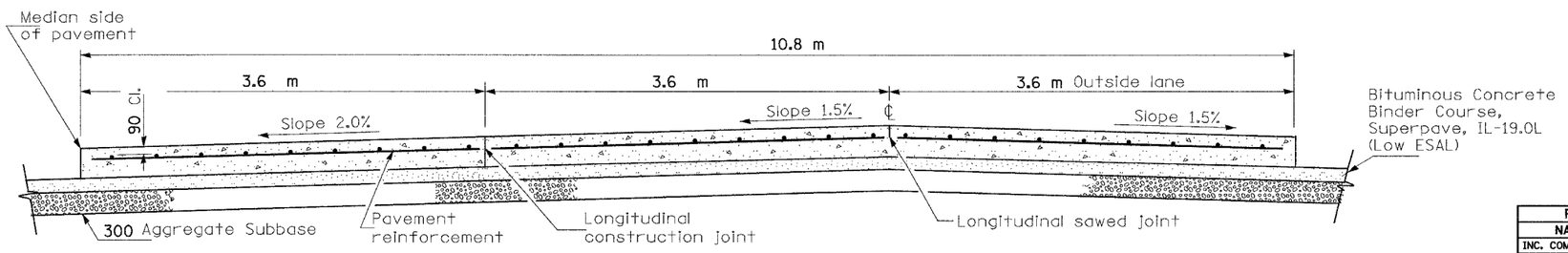
TRANSVERSE CONSTRUCTION JOINT

(Pavement Constructed in the Same Contract)



TRANSVERSE TERMINAL JOINT

(Continuation of a Pavement Constructed in a Previous Contract)



SECTION A-A

(TYPICAL 3-LANE, 1-WAY WITH SHOULDERS)

GENERAL NOTES

See Project Standard 421001-I74 for details of I-74 pavement reinforcement.

Detail of joints as shown on Standard 420001 except as otherwise shown herein.

All dimensions are in millimeters unless otherwise shown.

REVISIONS	
NAME	DATE
INC. COMMENTS	3/7/02
REM. ENGL.	3/22/02
H.S. 2004	9/30/03
NOTE - 30M	10/6/03
SEC B-B & TERM JT	11/4/04

ILLINOIS DEPARTMENT OF TRANSPORTATION

I-74 PROJECT STANDARD 421206-I74

10.8 m

CRC PAVEMENT

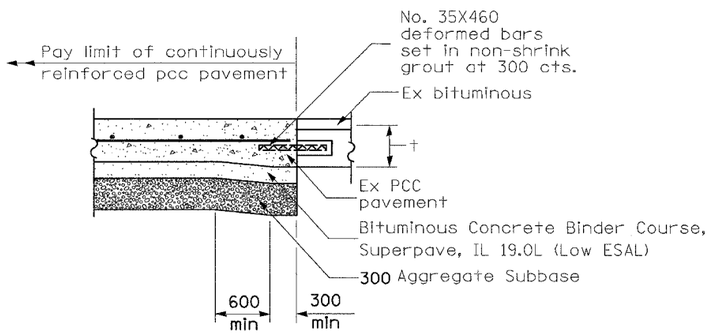
(WITH LUG SYSTEM) (Sheet 1 of 2)

DRAWN BY

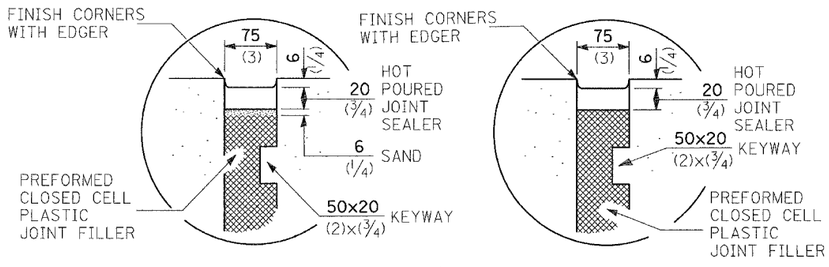
DATE 09/21/01 CHECKED BY

68201

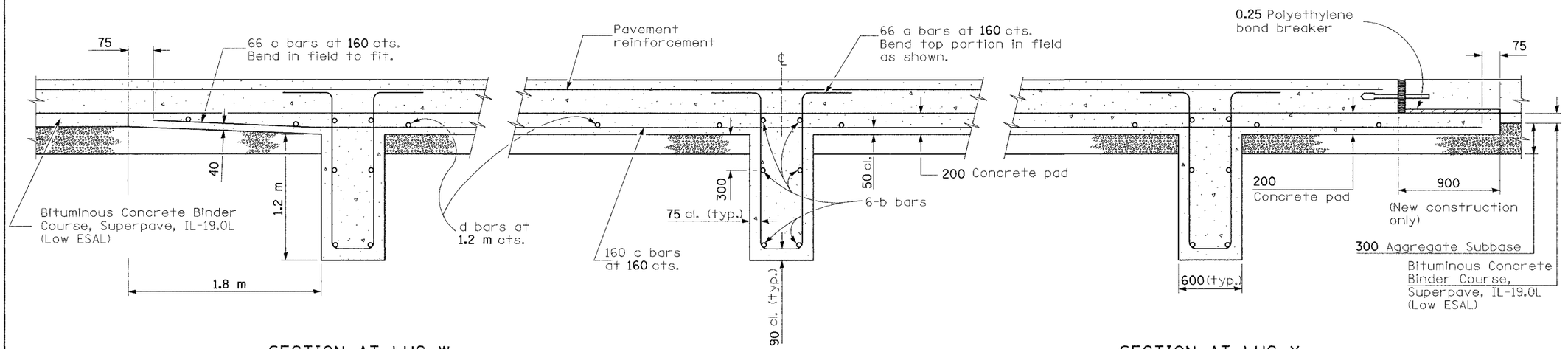
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	669
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



SECTION B-B
(Showing reinforcement)



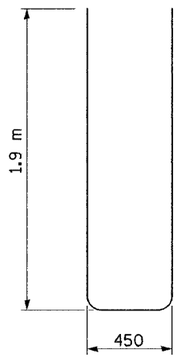
DETAIL A
SEALING DETAIL



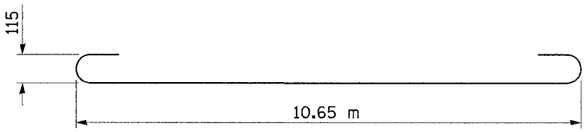
SECTION AT LUG W

SECTION AT LUG X

SECTION AT LUG Y



BAR a



BAR b

MATERIALS REQUIRED FOR (1) ONE LUG SYSTEM
(Excluding Pavement Concrete and Pavement Reinforcement)

Bar	No.	Size	Length	Shape
a	198	No. 25	4.25 m	
b	18	No. 16	11.30 m	
c	198	No. 16	6.10 m	
d	42	No. 13	3.52 m	

Concrete, m^3	23.3
Reinforcing Bars, kg	5695
Concrete Pad, m^2	155.5
Aggregate Subbase, m^2	168.5

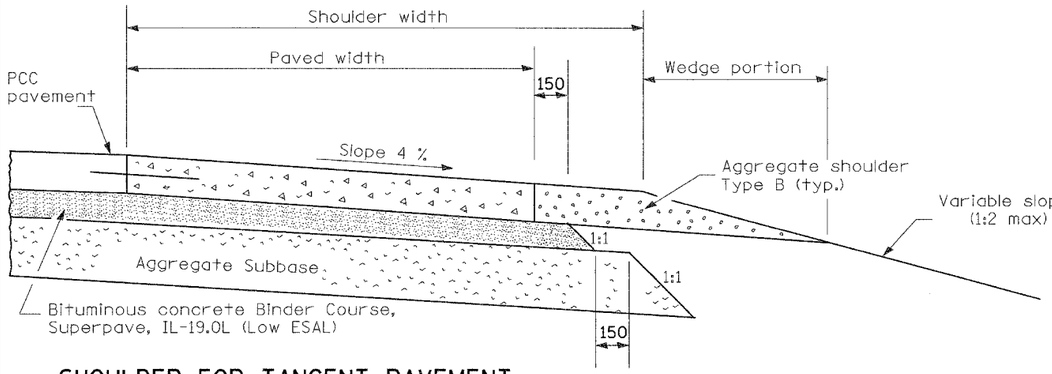
All dimensions are in millimeters unless otherwise shown.

REVISIONS	
NAME	DATE
INC. COMMENTS	3/7/02
REM. ENGL.	3/22/02
H.S. 2004	9/30/03
NOTE - 30M	10/6/03
REV & ADD SEC B-B	11/4/04

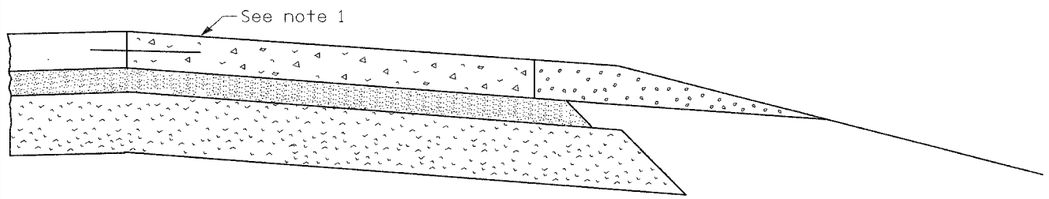
ILLINOIS DEPARTMENT OF TRANSPORTATION
I-74 PROJECT STANDARD 421206-I74
10.8 m
CRC PAVEMENT
(WITH LUG SYSTEM) (Sheet 2 of 2)
DRAWN BY
DATE 09/21/01 CHECKED BY

68201

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	670
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

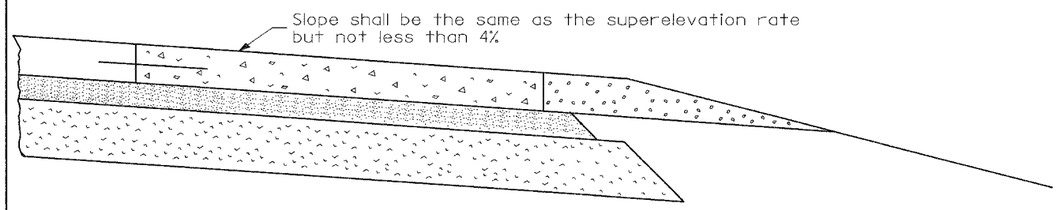


SHOULDER FOR TANGENT PAVEMENT



SHOULDER FOR SUPERELEVATED PAVEMENT

(Outside of curve)

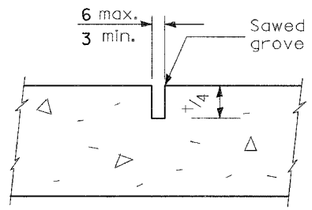


SHOULDER FOR SUPERELEVATED PAVEMENT

(Inside of curve)

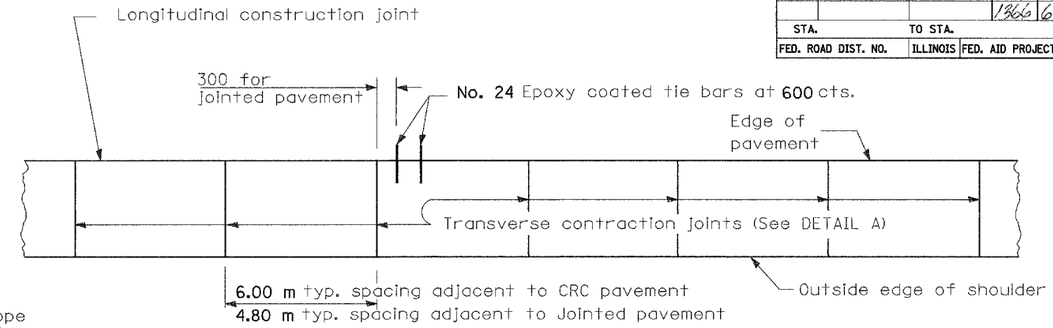
NOTES

Note 1: When the superelevation rate of the pavement is between 0% and 4%, the shoulder shall be sloped at 4%. When the superelevation rate of the pavement exceeds 4%, the shoulder shall be sloped so that the algebraic difference between pavement and shoulder slopes will not be greater than 8%.

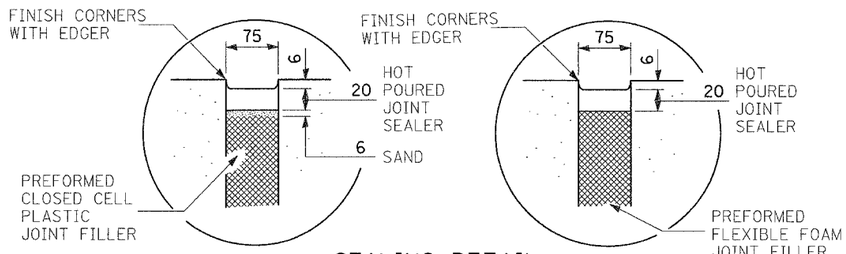


DETAIL A

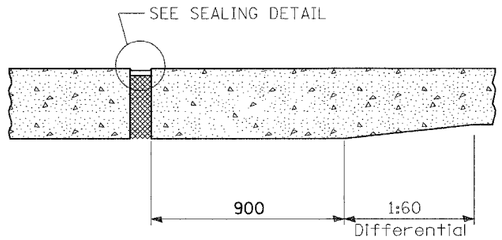
TRANSVERSE CONTRACTION JOINT



PLAN

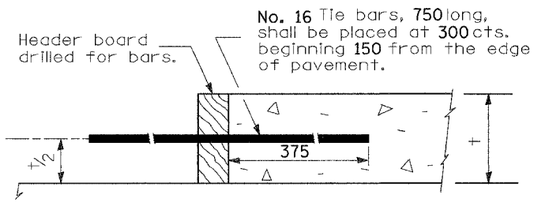


SEALING DETAIL



TRANSVERSE EXPANSION JOINT *

* TRANSITION FOR PAVEMENT WITH UNEQUAL THICKNESS AS APPLICABLE



TRANSVERSE CONSTRUCTION JOINT

GENERAL NOTES

Except as noted or shown, the dimensions and notes specified for the shoulder of the tangent pavement are typical for the shoulders of superelevated pavement.

Transverse expansion joints thru the pavement, shall be extended thru the PCC shoulder.

Longitudinal construction joint(s) or longitudinal sawed joint(s) as shown on Standard 420001 shall be provided when the width of paved shoulder exceeds 4.5 m so that width between longitudinal joints does not exceed 4.5 m

Details of joints as shown on Standard 420001 except as otherwise shown herein

All dimensions are in millimeters unless otherwise shown.

REVISIONS	
NAME	DATE
INC. COMMENTS	3/7/02
REM. ENGL.	3/22/02
REV. TITLE	7/25/03
H.S. 2004	9/26/03

ILLINOIS DEPARTMENT OF TRANSPORTATION

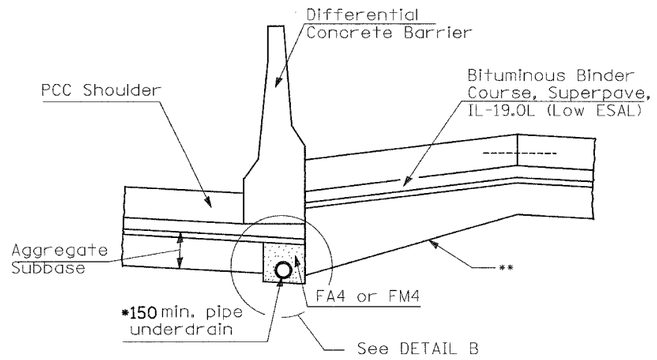
I-74 PROJECT STANDARD 483001-I74

PCC SHOULDER FOR MAINLINE AND RAMPS

DRAWN BY

DATE 09/21/01 CHECKED BY

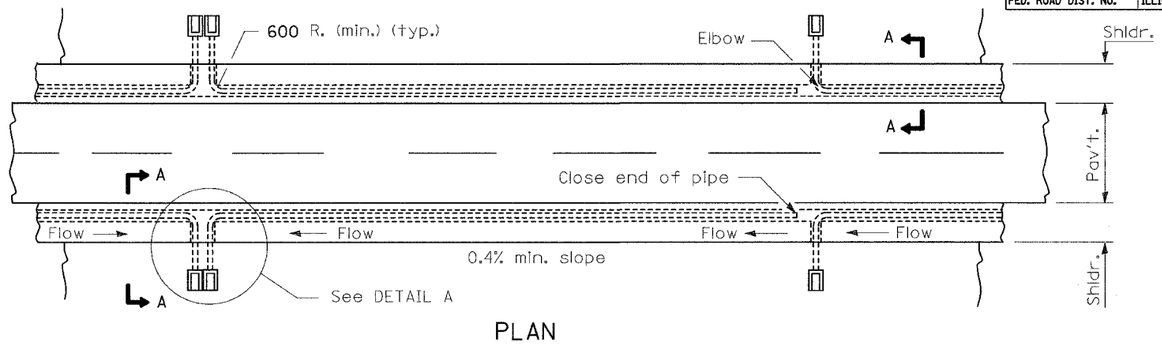
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1966	691
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



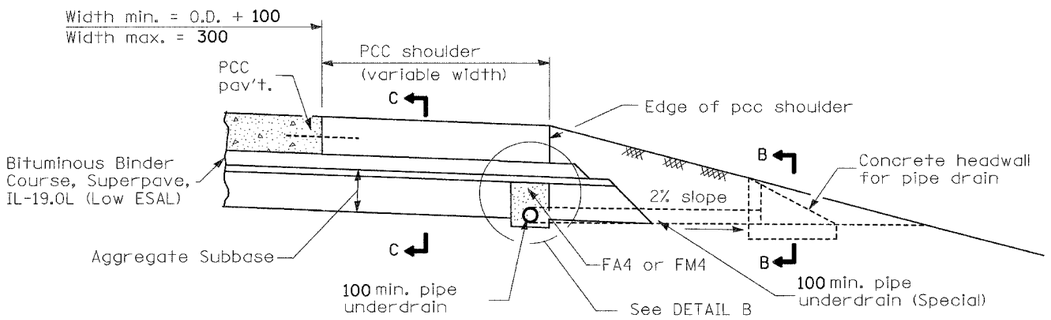
* Pipe Underdrain shall be placed in the first stage constructed

** Transition bottom of aggregate subbase from edge of pavement to match elevation of aggregate subbase on lower side of barrier

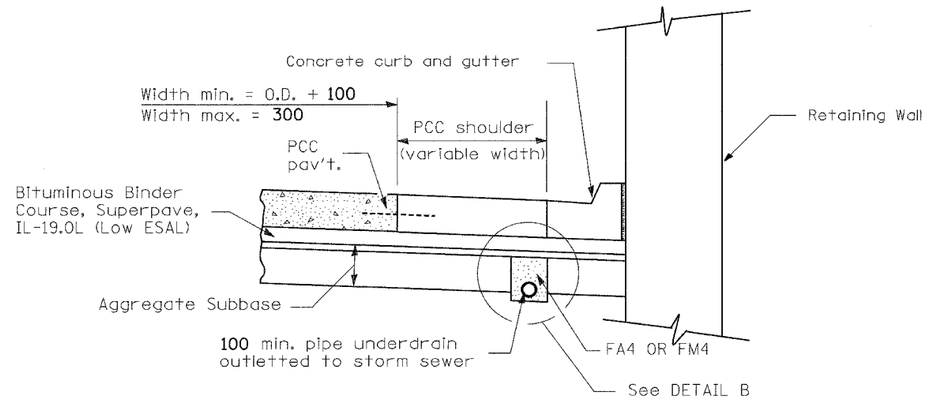
AT LOCATION WITH DIFFERENTIAL BARRIER



PLAN

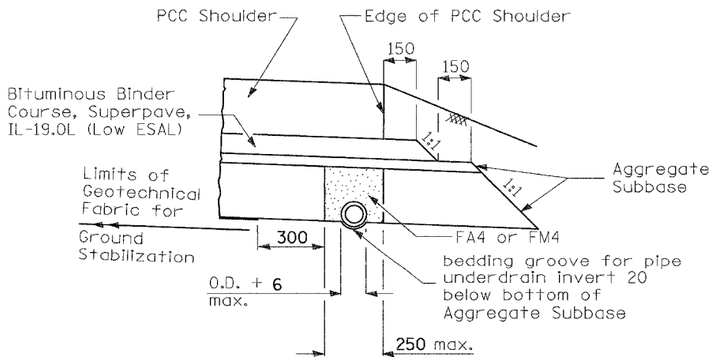


SECTION A-A

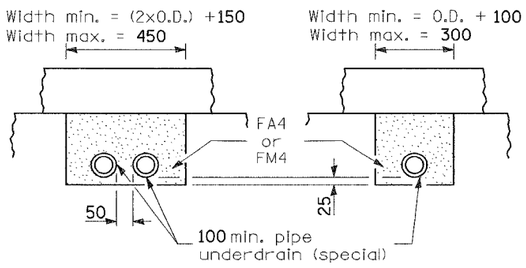


SECTION A-A

AT LOCATION WITH RETAINING WALLS

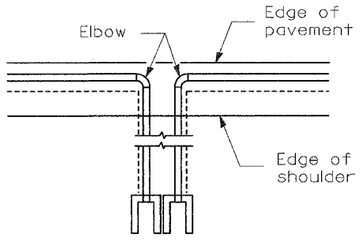


TRENCH FOR CORRUGATED POLYETHYLENE TUBING ALTERNATE

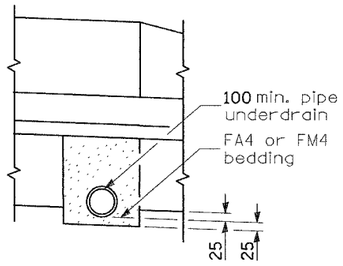


SECTION C-C
(Sag locations)

SECTION C-C



DETAIL A



DETAIL B

All dimensions are in millimeters unless otherwise shown.

REVISIONS	
NAME	DATE
INC. COMMENTS	3/7/02
REM. ENGL.	3/22/02
FA4 OR FM4	4/17/02
DETAIL B	12/10/03

ILLINOIS DEPARTMENT OF TRANSPORTATION

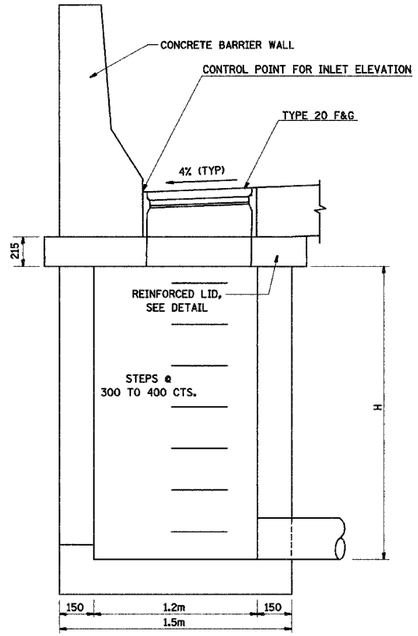
I-74 PROJECT STANDARD 601001-I74

SUB-SURFACE DRAINS

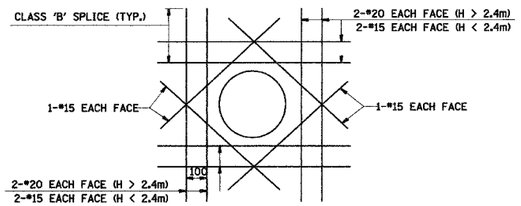
DRAWN BY

DATE 09/21/01 CHECKED BY

F. A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
			1366	672
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



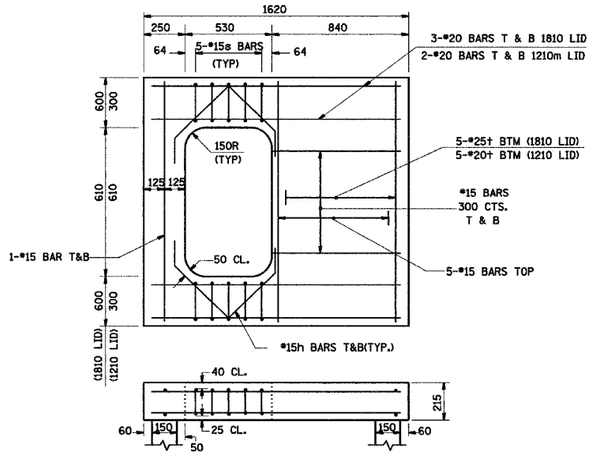
DRAINAGE STRUCTURE WITH TYPE 20 F&G



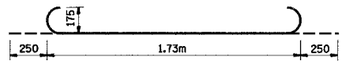
TYPICAL REINFORCEMENT DETAIL AROUND SIDEWALL OPENINGS

(OPENING ≥ 300)

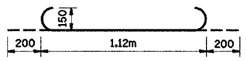
WHERE CLASS 'B' SPLICE LENGTH ANCHORAGE IS NOT POSSIBLE, BARS SHOULD BE HOOKED.



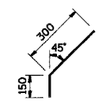
REINFORCED LID FOR TYPE 20 F&G



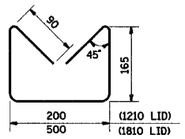
#25 BAR †



#20 BAR †



#15 BAR h



#15 BAR s

BAR DETAILS

NOTES:

1. DRAINAGE STRUCTURE SHALL CONFORM TO HIGHWAY STANDARD 602101 EXCEPT AS NOTED.
2. REINFORCEMENT FOR STRUCTURE WALLS AND BASE SLAB SHALL BE IN ACCORDANCE WITH STD. 602101 FOR DEPTHS UP TO H=2.4m

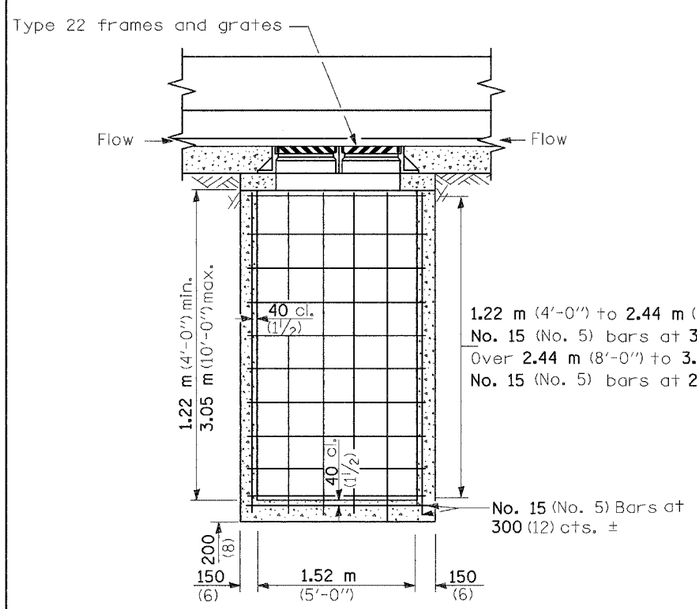
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

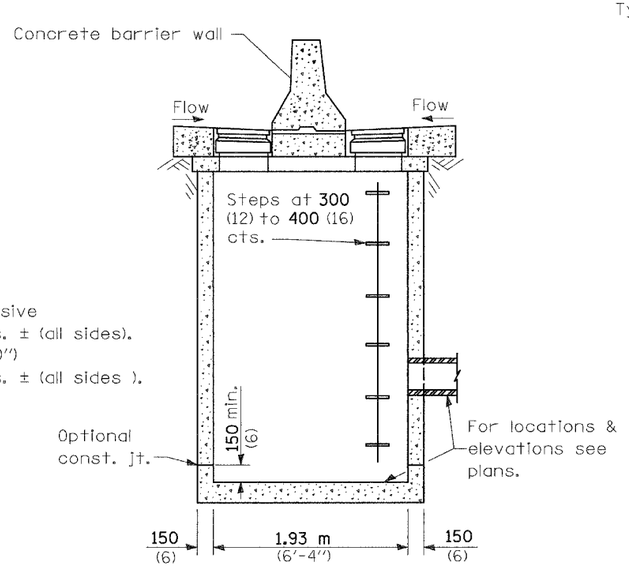
I-74 PROJECT STANDARD 602101-174
DRAINAGE STRUCTURE
TYPE 1A & 1B
1.2m x 0.9m AND 1.2m X 1.5m
FOR H ≤ 2.4m

SCALE: VERT. NONE HORIZ. NONE
DRAWN BY MAI/CAD
DATE 1/15/01
CHECKED BY

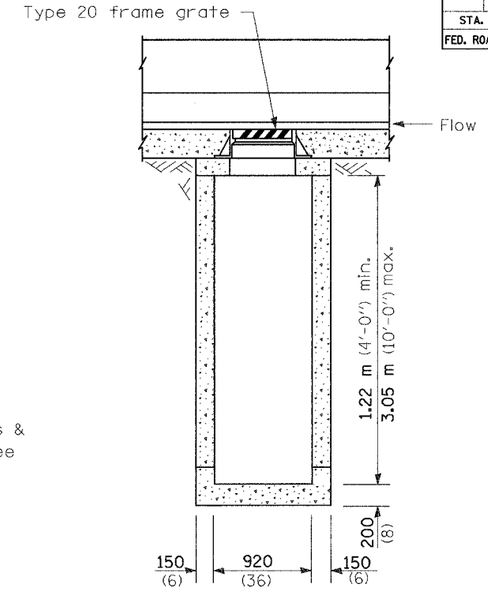
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	673
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



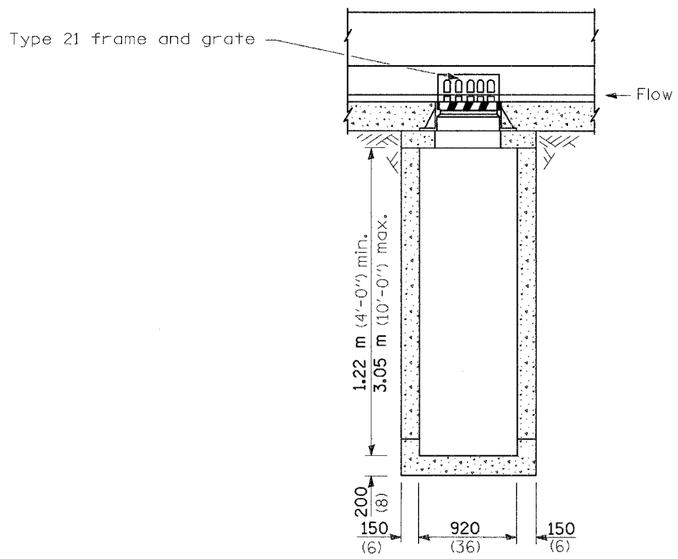
FRONT ELEVATION - TYPE 2



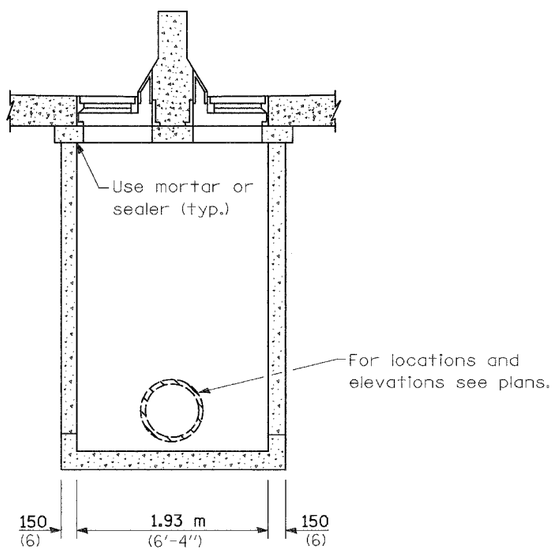
SIDE ELEVATION - TYPE 1 & 2



FRONT ELEVATION - TYPE 1



FRONT ELEVATION - TYPE 3



SIDE ELEVATION - TYPE 3

GENERAL NOTES

The reinforcement shown in the front elevation of the type 2 is typical for both elevations of all types.

See Standard 602701 for details of steps.

Exposed edges shall be beveled 19 mm (¾").

All dimensions are in millimeters (inches) unless otherwise shown.

⚠ ADDED SCHEDULE

REVISIONS	
NAME	DATE
⚠	5-6-04

ILLINOIS DEPARTMENT OF TRANSPORTATION

I-74 PROJECT STANDARD 602102-174

DRAINAGE STRUCTURES

TYPES 1, 2 & 3

(Sheet 1 of 2)

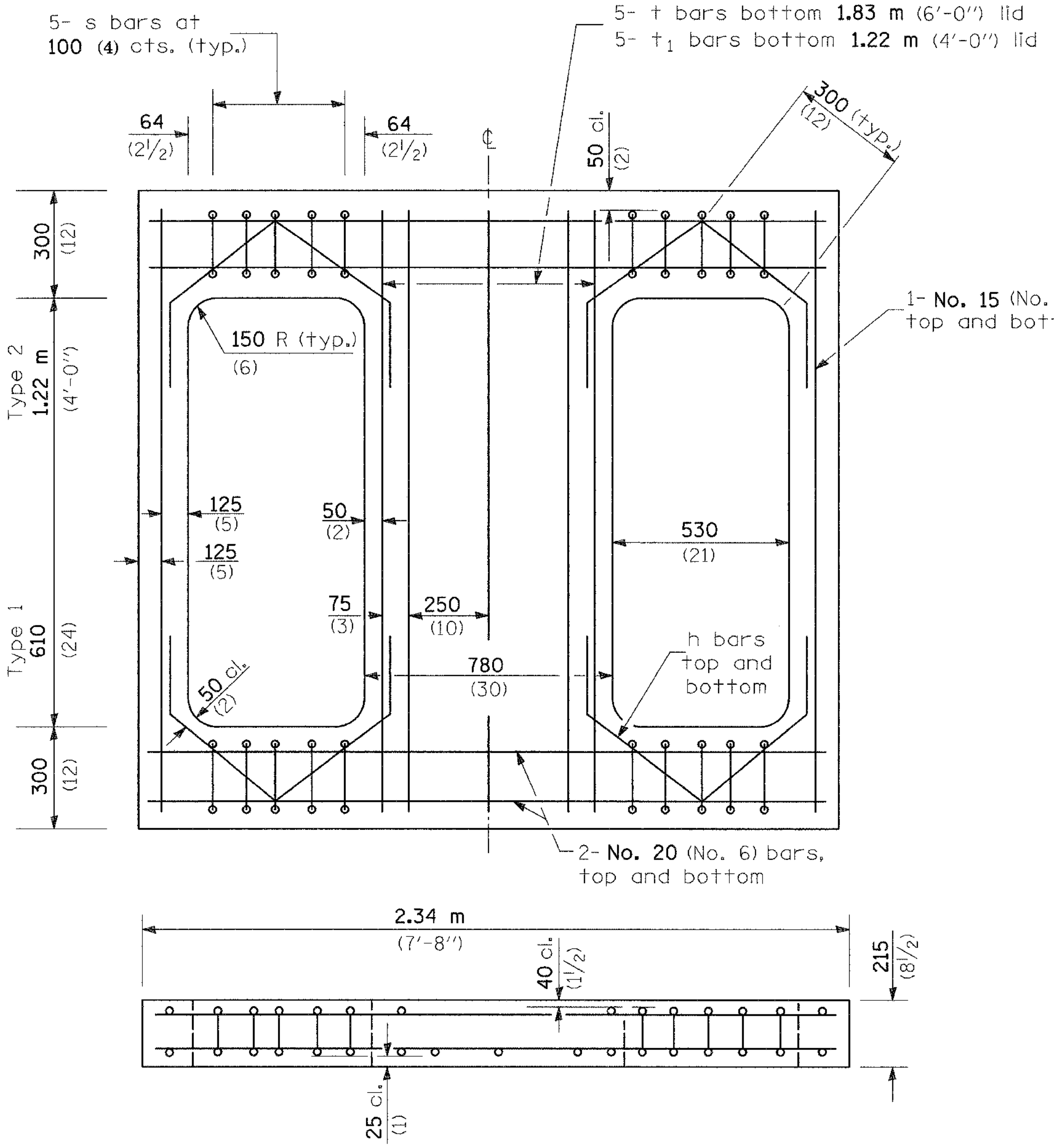
DRAWN BY

DATE 3/31/04

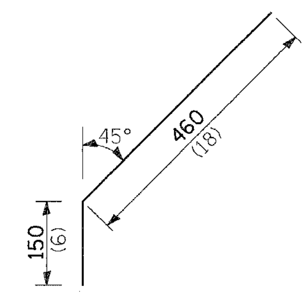
CHECKED BY

63201

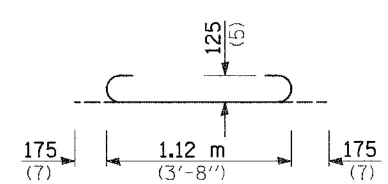
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	674
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



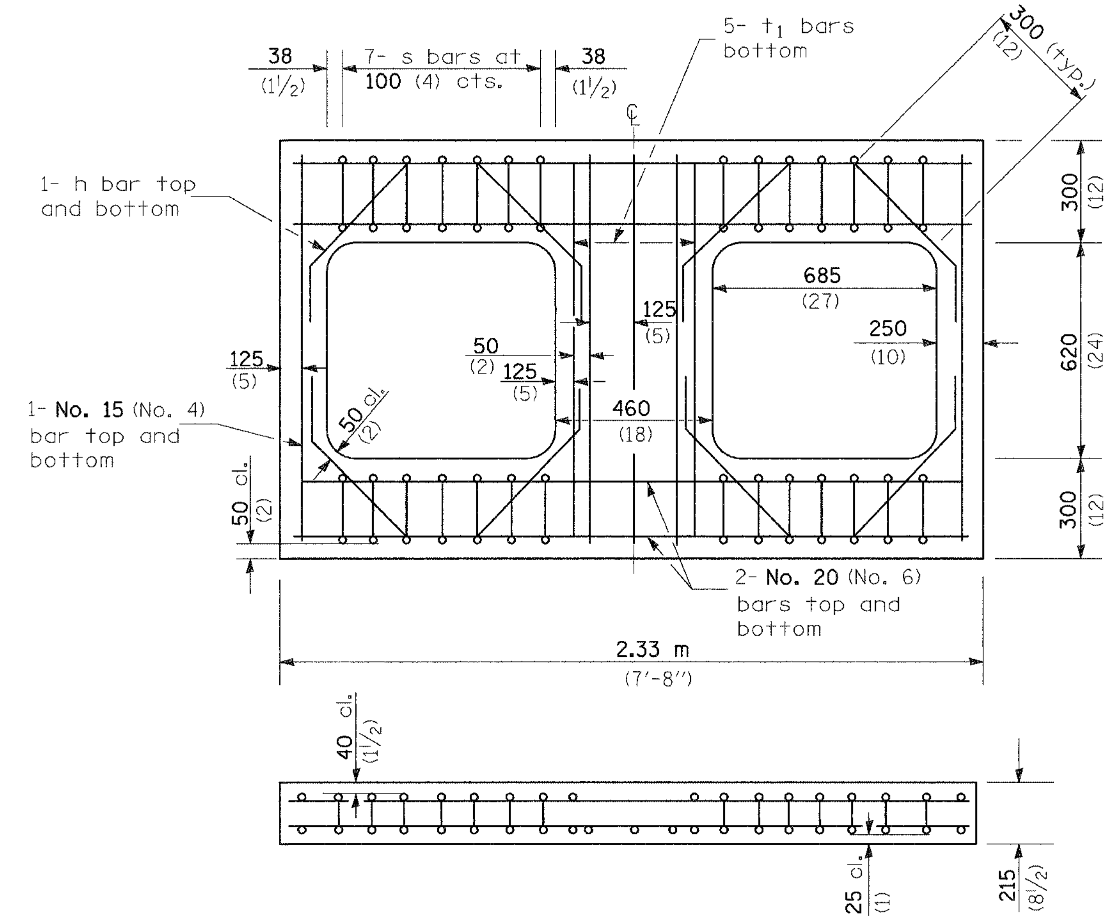
REINFORCED LID - TYPE 1 & 2



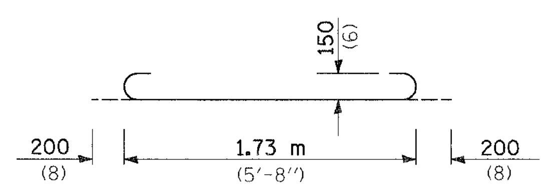
No. 15 (No. 4) Bar h



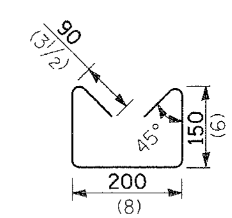
No. 15 (No. 5) Bar t_1



REINFORCED LID - TYPE 3



No. 20 (No. 6) Bar t



No. 10 (No. 3) Bar s

All dimensions are in millimeters (inches) unless otherwise shown.

⚠ ADDED SCHEDULE

REVISIONS NAME	DATE
⚠	5-6-04

ILLINOIS DEPARTMENT OF TRANSPORTATION

I-74 PROJECT STANDARD 602102-I74

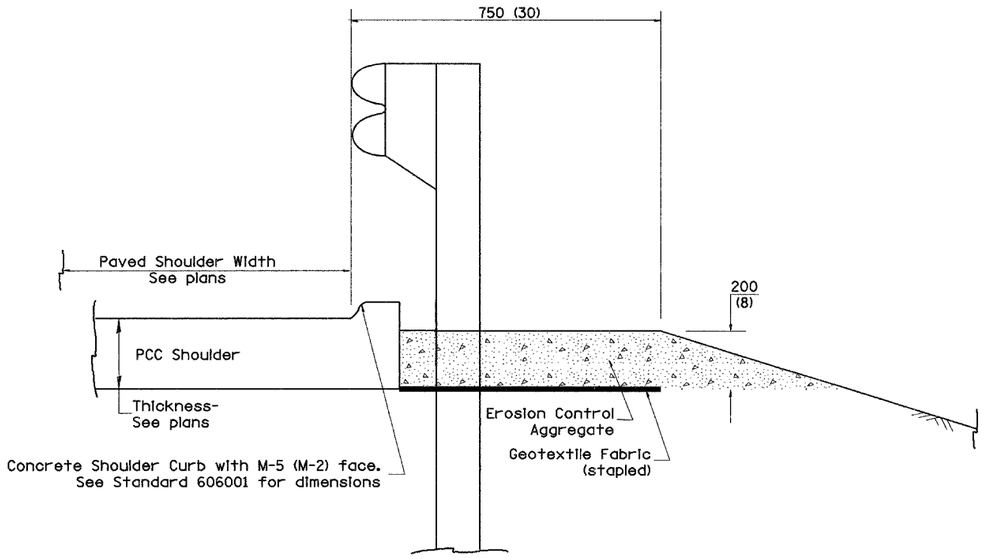
DRAINAGE STRUCTURES TYPES 1, 2 & 3

(Sheet 2 of 2) DRAWN BY

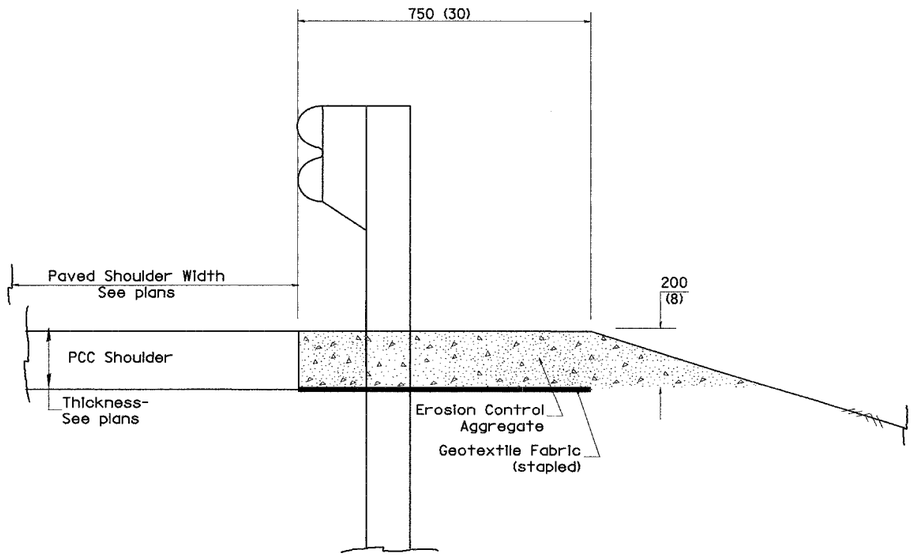
DATE 3/31/04 CHECKED BY

68201

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	675
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL SECTION WITH CONCRETE SHOULDER CURB



TYPICAL SECTION WITHOUT CONCRETE SHOULDER CURB

GENERAL NOTES: CONCRETE SHOULDER CURB

1. Concrete shoulder curb shall be constructed in accordance with Section 662 of the Standard Specifications.

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.

2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.

3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 300(12) minimum overlap. A knife cut for guardrail post installation is necessary.

4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.

5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.

6. Materials shall meet the following requirements:

   A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.

   B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.

All dimensions are in millimeters (inches) unless otherwise noted.

DATE	REVISIONS	BY
3/28/01		

ILLINOIS DEPARTMENT OF TRANSPORTATION

I-74 PROJECT STANDARD 630101-I74

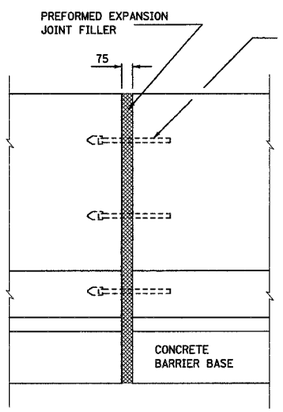
GUARDRAIL AGGREGATE EROSION CONTROL TREATMENT & CONCRETE SHOULDER CURB

SCALE: NOT DRAWN TO SCALE DRAWN BY CADD

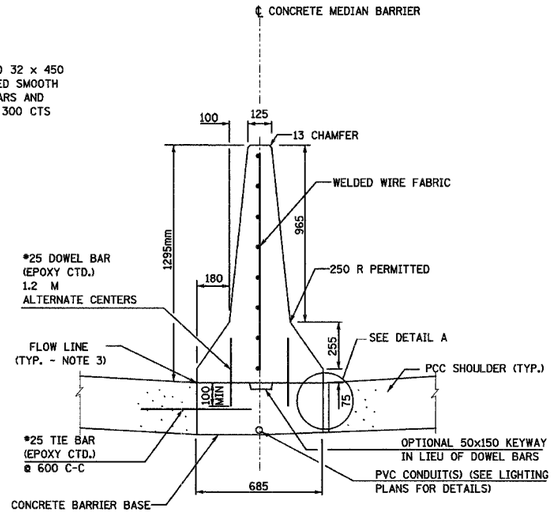
DATE: 12/19/00 CHECKED BY

63201

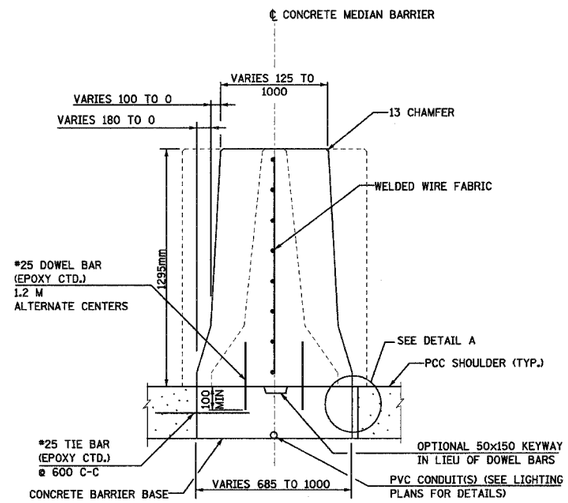
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	676
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



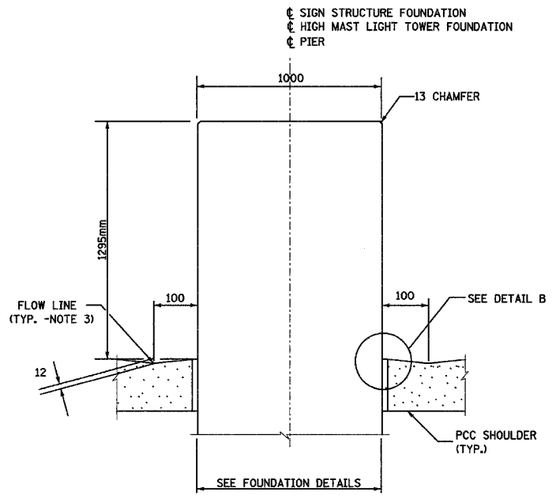
EXPANSION JOINT



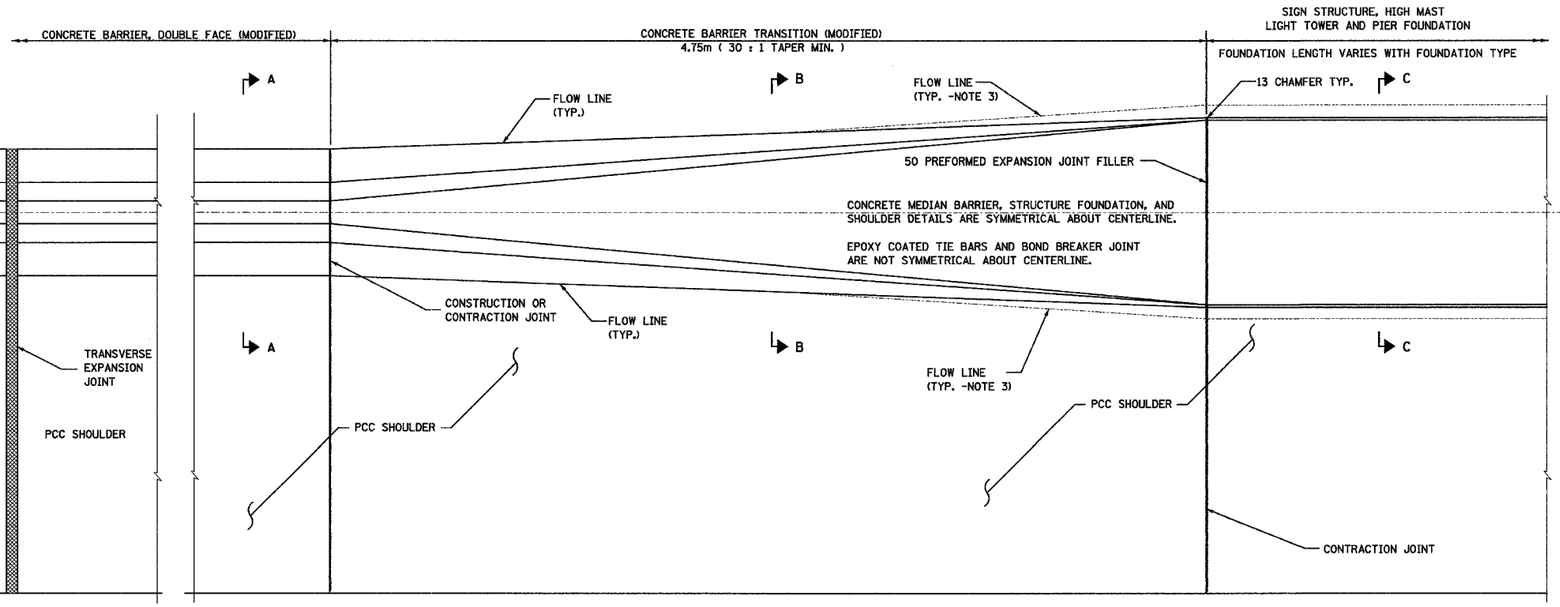
SECTION A-A



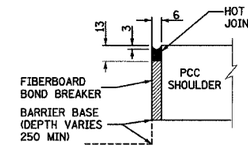
SECTION B-B



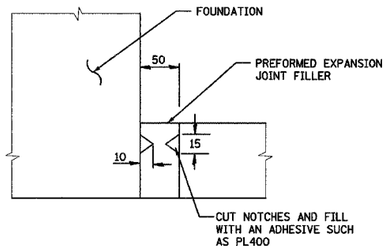
SECTION C-C



PLAN



DETAIL A



DETAIL B - EXPANSION JOINT

PREFORMED EXPANSION JOINT FILLER SHALL MEET THE REQUIREMENTS OF ARTICLE 1051.08 OR 1051.09. THE EXPANSION JOINT SHALL BE CONSTRUCTED IN ACCORDANCE WITH EXPANSION JOINT SEALING DETAIL SHOWN ON STANDARD 420001 AND AS SHOWN HEREIN.

ALL DIMENSIONS IN MILLIMETERS UNLESS SHOWN OTHERWISE

NOTES:

1) FOR SHOULDER AND UNDERDRAIN DETAILS SEE I-74 PROJECT STDS 483001-I74 AND 601001-I74.
2) TAPER LENGTH REQUIRED FOR TRANSITION TO 1 METER WIDTH WILL BE 4.75m.
3) PROPOSED DRAINAGE PROFILE IN THE VICINITY OF SAG VERTICAL CURVES AND ALONG FLAT GRADES SHALL BE CAREFULLY CONTROLLED AND FIELD ADJUSTED IF NECESSARY TO ENSURE POSITIVE DRAINAGE AND AVOID PONDING.
4) A 25 RADIUS CAN BE SUBSTITUTED FOR THE 13 CHAMFER AT THE TOP OF THE BARRIER WALL.
5) REINFORCING BARS AND WELDED WIRE FABRIC SHALL BE SEATED IN THE FINAL POSITION PRIOR TO THE CONCRETE OPERATIONS. BARS CANNOT BE MUCKED INTO PLACE.
6) AT FOUNDATION MEDIAN TRANSITIONS, PCC SHOULDER CONTRACTION JOINTS SHOULD BE ALIGNED WITH MEDIAN BARRIER CONTRACTION JOINTS AND EXPANSION JOINTS.
7) DETAILS SHOWN FOR I-74 STANDARD BARRIER, DETAILS FOR VARIABLE HEIGHT BARRIER SIMILAR.
8) TRANSVERSE EXPANSION JOINT THRU THE PAVEMENT AND THE SHOULDER SHALL BE EXTENDED THRU THE CONCRETE BARRIER

REVISIONS	
NAME	DATE
FLARED BASES	9/23/02
DOWEL BAR SPACING	2/11/03
REM DIFF BARRIER	6/20/03
EXPANSION JOINT	10/7/03

ILLINOIS DEPARTMENT OF TRANSPORTATION

I-74 PROJECT STANDARD 637001-I74

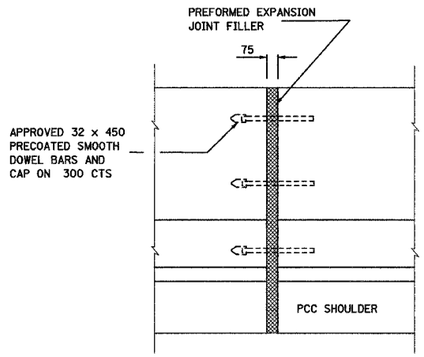
CONCRETE BARRIER, DOUBLE FACE (MODIFIED) & CONCRETE BARRIER TRANSITION (MODIFIED) FOR SIGN STRUCTURE, HIGH MAST LIGHT TOWER, AND PIER FOUNDATIONS

DRAWN BY

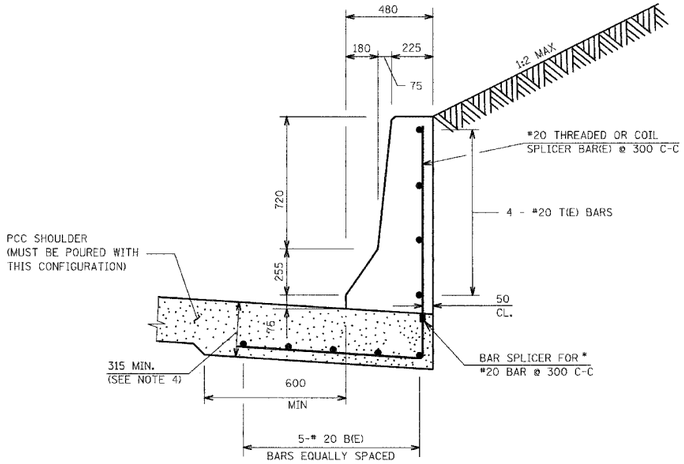
DATE 08/15/02 CHECKED BY

63201

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	677
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

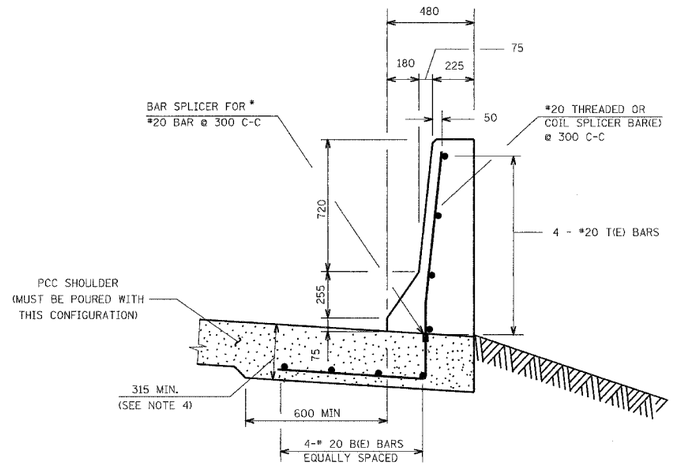


EXPANSION JOINT

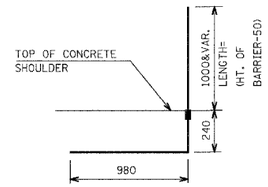


CONCRETE BARRIER, SINGLE FACE (MODIFIED)
CUT SECTION

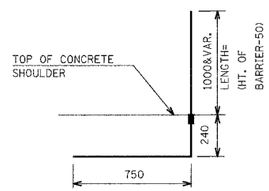
* THE BAR SPLICER SHALL BE CAPABLE OF DEVELOPING A MINIMUM OF 125% OF THE YIELD STRENGTH OF A #20 BAR



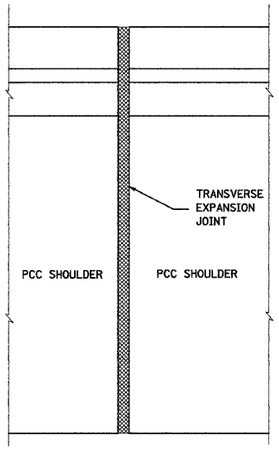
CONCRETE BARRIER, SINGLE FACE (MODIFIED)
FILL SECTION



BAR SPLICER DETAIL
CUT SECTION



BAR SPLICER DETAIL
FILL SECTION



PLAN

CUT SECTION

	REINFORCING BARS 6.1 m SECTION				
	BAR	NO.	SIZE	LENGTH	SHAPE
	B(E)	5	#20	6.00 m	——
**	T(E)	4	#20	6.00 m	——
	REINFORCING BARS (EPOXY COATED)			Kg	128
	BAR SPLICERS			EACH	21

** LONGITUDINAL BARS SHOULD NOT EXTEND THROUGH JOINTS.

FILL SECTION

	REINFORCING BARS 6.1 m SECTION				
	BAR	NO.	SIZE	LENGTH	SHAPE
	B(E)	4	#20	6.00 m	——
**	T(E)	4	#20	6.00 m	——
	REINFORCING BARS (EPOXY COATED)			Kg	114
	BAR SPLICERS			EACH	21

** LONGITUDINAL BARS SHOULD NOT EXTEND THROUGH JOINTS.

NOTES:

1) FOR ADDITIONAL SHOULDER DETAILS SEE I-74 PROJECT STDS 483001-I74 AND 601001-I74

2) A 25 RADIUS CAN BE SUBSTITUTED FOR THE 13 CHAMFER AT THE TOP OF THE BARRIER WALL.

3) THE FURNISHING AND PLACING OF REINFORCING BARS AND BAR SPLICERS AND THE THICKENED PCC SHOULDER WHEN REQUIRED SHALL BE INCLUDED IN THE COST OF THE CONCRETE BARRIER OF THE TYPE SPECIFIED.

4) ALL REINFORCING BARS, BAR SPLICERS, TIE BARS AND DOWEL BARS SHALL BE SEATED IN THE FINAL POSITION PRIOR TO THE CONCRETE OPERATIONS. BARS CANNOT BE MUCKED INTO PLACE.

5) TRANSVERSE EXPANSION JOINT THRU THE PAVEMENT AND THE SHOULDER SHALL BE EXTENDED THRU THE CONCRETE BARRIER.

ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
EXPANSION JOINT	10/7/03

ILLINOIS DEPARTMENT OF TRANSPORTATION

I-74 PROJECT STANDARD 637002-I74

CONCRETE BARRIER, SINGLE FACE (MODIFIED)

DRAWN BY

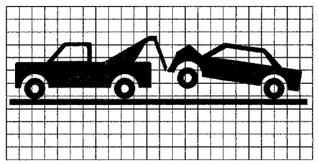
DATE 08/15/02 CHECKED BY

68201

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	618
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

TYPE III SIGN (C)

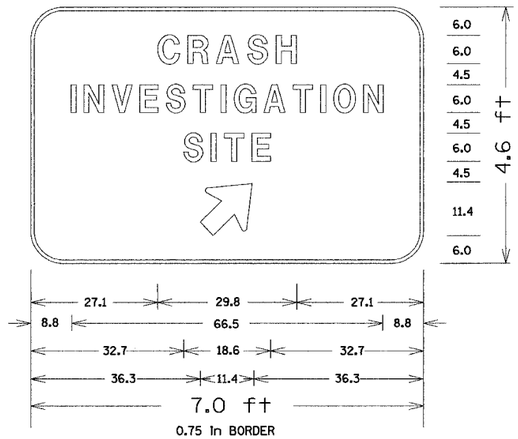
2 In BORDER
11.6 In RADIUS
SERIES E MODIFIED 2000 FONT
WHITE LETTERS ON BLUE BACKGROUND



DETAIL "A"

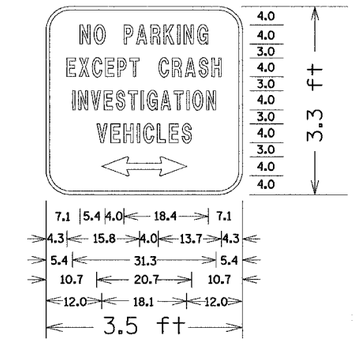
(SIGN C)

TYPE III SIGN (B)



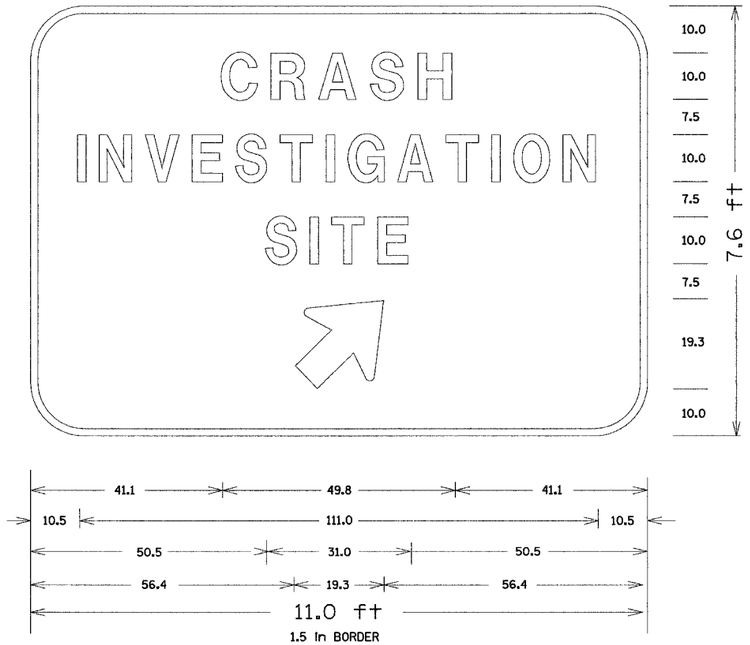
0.75 In BORDER
6.9 In RADIUS
SERIES E MODIFIED 2000 FONT
WHITE LETTERS ON BLUE BACKGROUND

TYPE II SIGN (A)



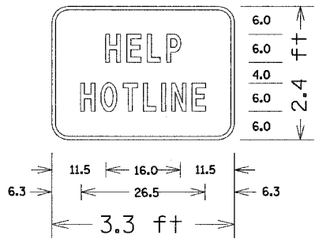
0.75 In BORDER
5.0 In RADIUS
SERIES C 2000 FONT
BLACK LETTERS ON WHITE BACKGROUND

TYPE III SIGN (E)



1.5 In BORDER
11.4 In RADIUS
SERIES E MODIFIED 2000 FONT
WHITE LETTERS ON BLUE BACKGROUND

TYPE I SIGN (D)



0.75 In BORDER
3.5 In RADIUS
SERIES C 2000 FONT
BLACK LETTERS ON WHITE BACKGROUND

NOTES:

1. SIGN B SHOULD BE USED AT CIS LOCATIONS WHERE THE DESIGN SPEED ON THE RAMP AT THE CIS ENTRANCE TAPER IS LESS THAN 45 MPH (70 KPH). WHERE RAMP DESIGN SPEEDS ARE EQUAL TO OR GREATER THAN 45 MPH (70 KPH) AT THE CIS ENTRANCE TAPER, SIGN B SHOULD BE MODIFIED TO UTILIZE 8 IN (203 MM) TEXT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

I-74 PROJECT STANDARD 701004-I74

TYPICAL CRASH INVESTIGATION SITE (CIS) - SIGNING DETAIL

DRAWN BY MJL

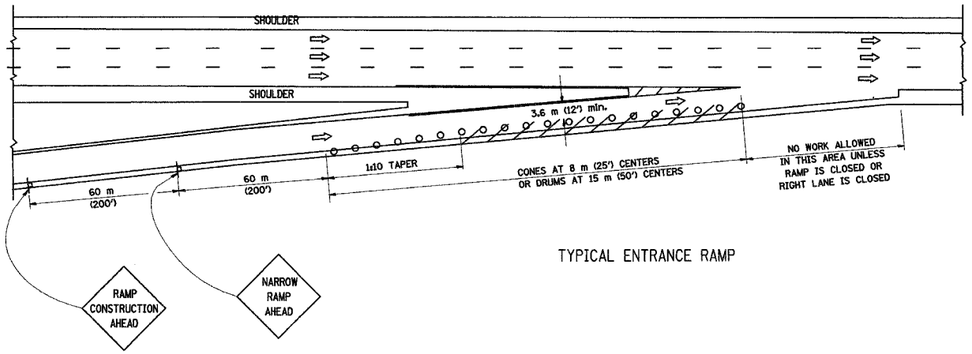
DATE 02/12/03

CHECKED BY GFR

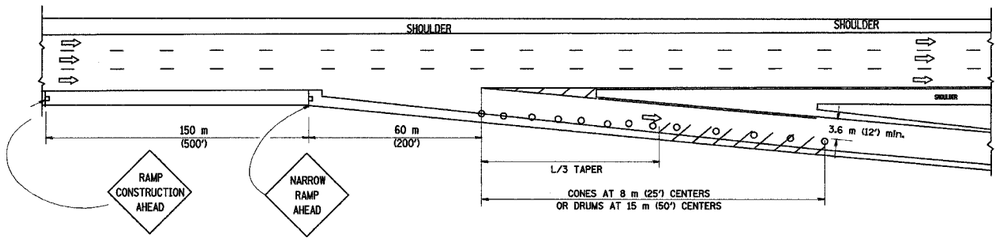
68201

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	479
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

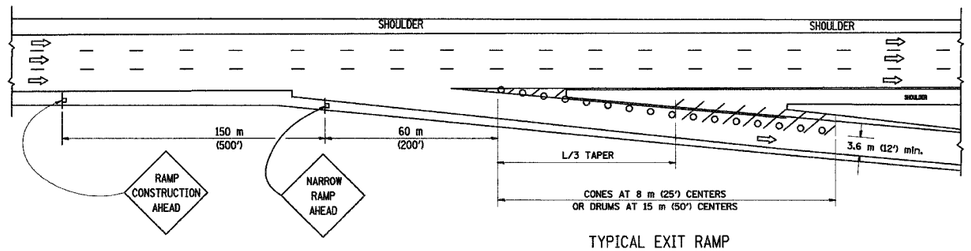
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP

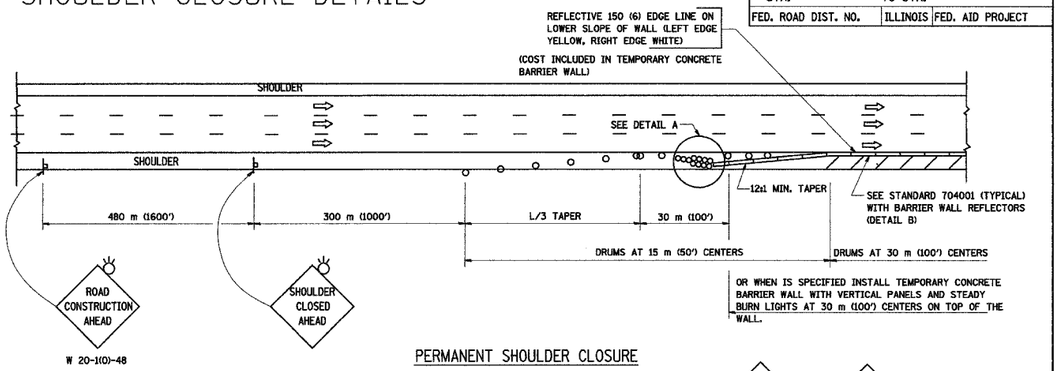


TYPICAL EXIT RAMP

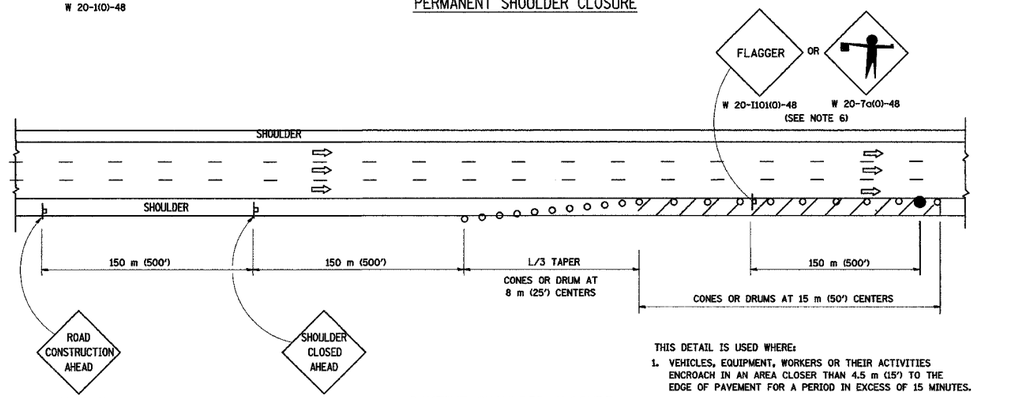


TYPICAL EXIT RAMP

SHOULDER CLOSURE DETAILS



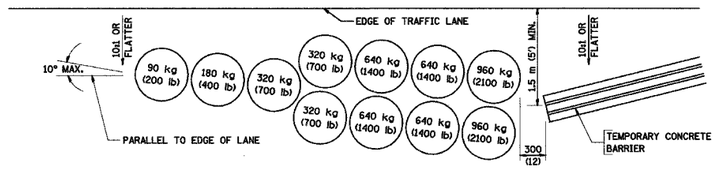
PERMANENT SHOULDER CLOSURE



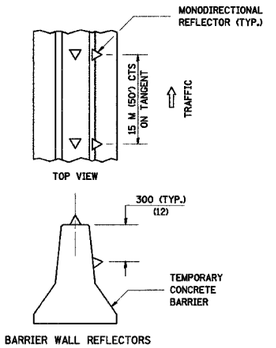
THIS DETAIL IS USED WHERE:

1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 4.5 m (15') TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

DAYTIME SHOULDER CLOSURE



DETAIL A
SAND MODULE IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)



DETAIL B

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN

SYMBOLS

- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- CONES - 700 (28) IN HEIGHT

GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS	
	METRIC	ENGLISH
80 km/h (45 mph) OR GREATER:	L=0.65(W)(S)	L=(W)(S)

W = WIDTH OF OFFSET IN METERS (FEET)
S = NORMAL POSTED SPEED KM/H (MPH)

2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.
5. THE SAND MODULE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY BARRIER END SECTION IS OUTSIDE THE CLEAR ZONE OR IS TIED INTO THE EXISTING GUARDRAIL.
6. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
   a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
   b. THE WORK AVTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.

   THE FLAGGER SHALL BE STATIONED APPROXIMATELY 30 m (100') TO 60 m (200') IN ADVANCE OF THE WORKERS.

REVISIONS	
NAME	DATE
REM. END SECTION	4/17/02
REM. ARROWBOARD	8/30/02
MODIFY TO RAMP CONST.	8/30/02

ILLINOIS DEPARTMENT OF TRANSPORTATION

I-74 PROJECT STANDARD 701101-174

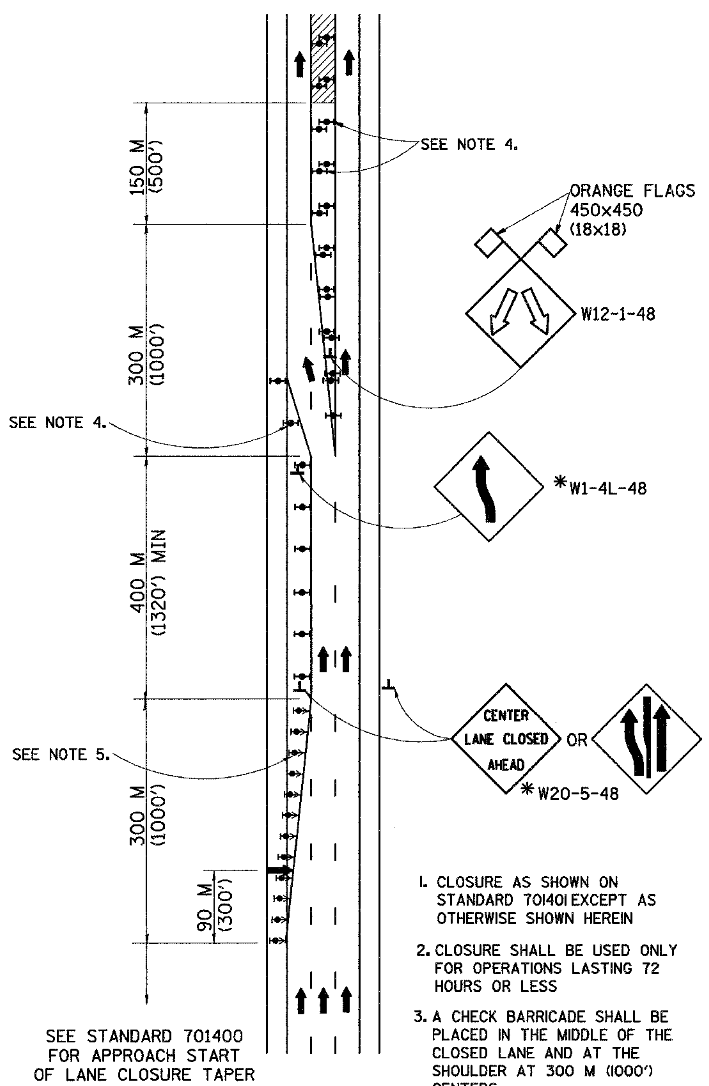
TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES
PARTIAL RAMP CLOSURES

DRAWN BY

DATE 03/28/02 CHECKED BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	680
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

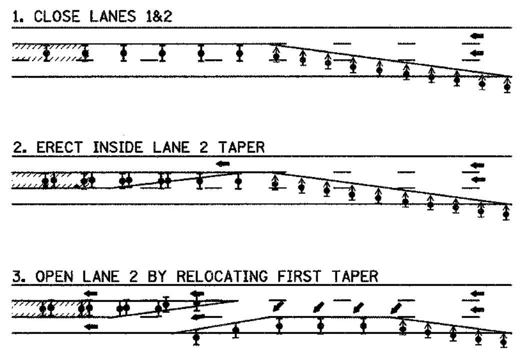
CENTER LANE CLOSURE



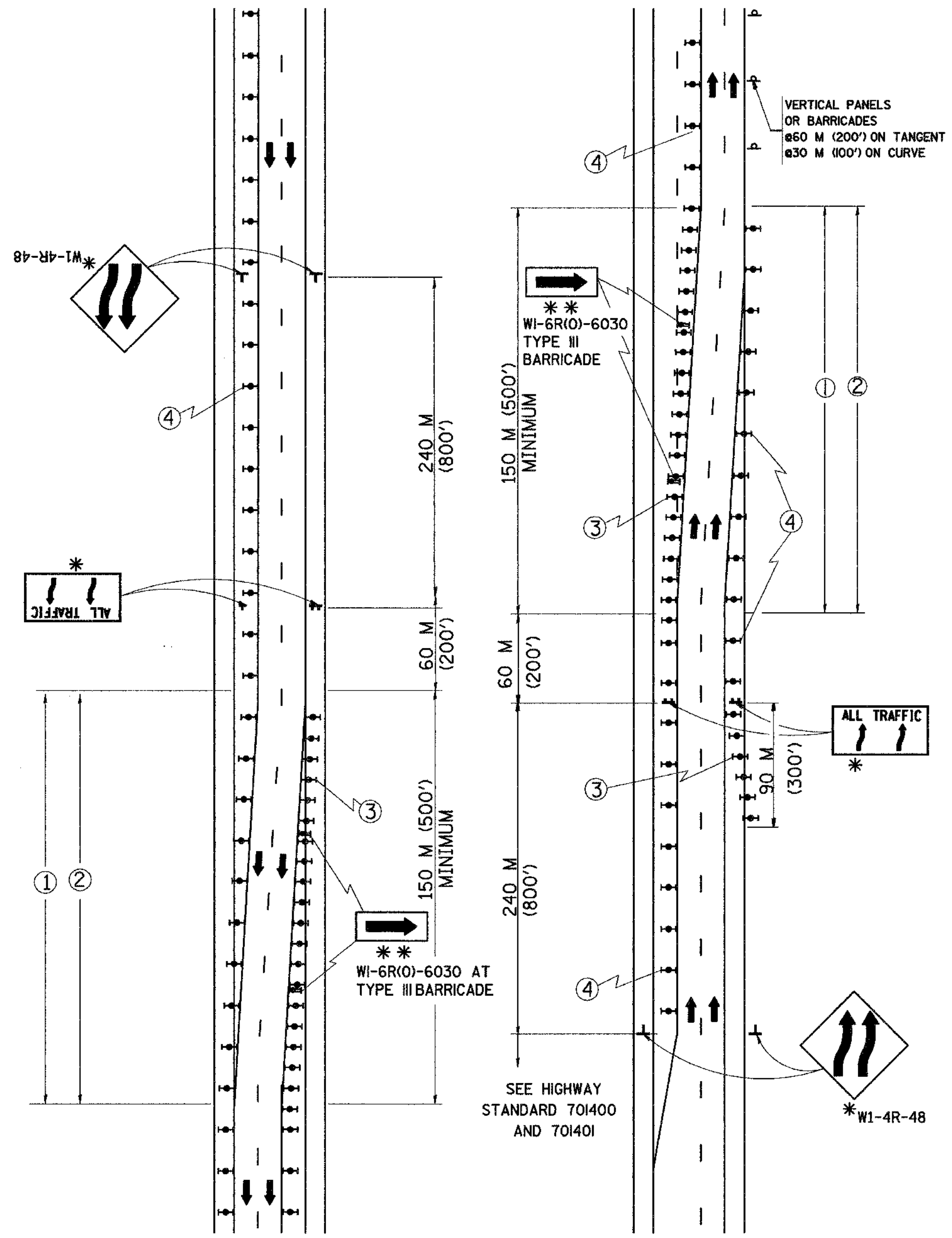
1. CLOSURE AS SHOWN ON STANDARD 701401 EXCEPT AS OTHERWISE SHOWN HEREIN
2. CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS
3. A CHECK BARRICADE SHALL BE PLACED IN THE MIDDLE OF THE CLOSED LANE AND AT THE SHOULDER AT 300 M (1000') CENTERS
4. TYPE II BARICADES, DRUMS, OR VERTICAL BARRICADES AT 30 M (100') CENTERS
5. DIRECTION INDICATOR BARRICADES AT 15 M (50') CENTERS

INSTALLATION SEQUENCE

1. CLOSE LANES 1&2
2. ERECT INSIDE LANE 2 TAPER
3. OPEN LANE 2 BY RELOCATING FIRST TAPER
4. REMOVE CLOSURE IN REVERSE ORDER



MULTI-LANE WEAVE



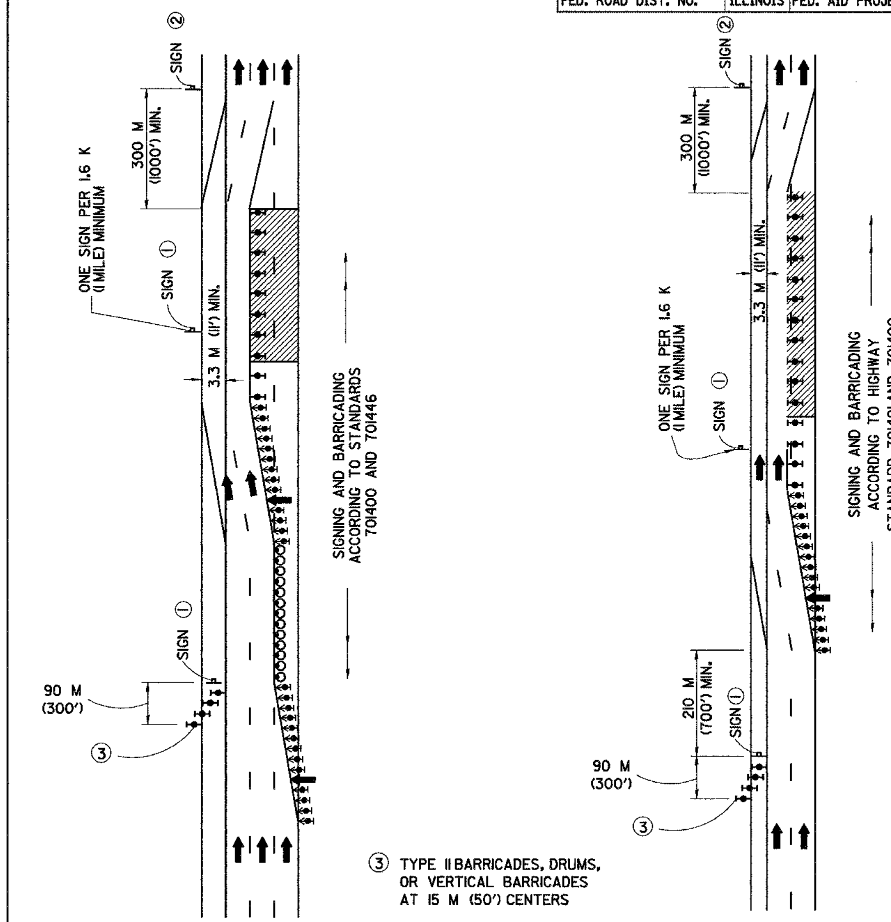
* THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC

** IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEET NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS DIRECTLY IN FRONT OF THE BARRICADE

① TEMPORARY PAVEMENT MARKING TO BE INSTALLED: CONTINUOUS YELLOW LEFT EDGE LINE. LANE LINES 3 M-9 M (10'-30') SKIP-DASH, WHITE. CONTINUOUS WHITE RIGHT EDGE LINE.
② EXISTING PAVEMENT MARKING TO BE REMOVED.
③ TYPE II BARICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT AT 15 M (50') C-C SPACING.
④ TYPE II BARICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT AT 30 M (100') C-C SPACING.

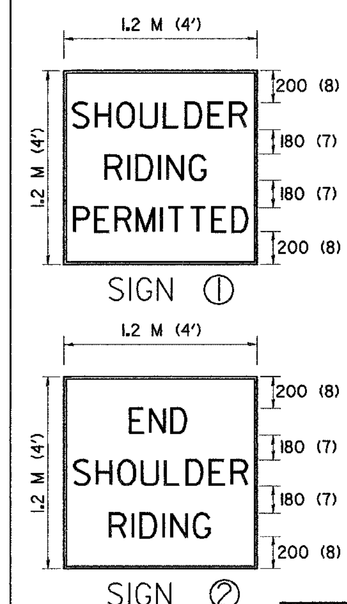
ALL TRAFFIC: 1.2 m x 2.4 m (4'x8'); 25 (1) BORDER; 250 (10) CAPITAL LETTERS BACKGROUND SHEETING SHALL BE THE SAME AS ALL DIAMOND SHAPED CONSTRUCTION SIGNS.

SHOULDER LANE



③ TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 15 M (50') CENTERS

CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.



150 (6) SERIES 'C' LEGEND
BLACK LEGEND
WHITE REFLECT. BACKGROUND
25 (1) BORDER

SYMBOLS

- ARROW BOARD
- WORK AREA
- SIGN WITH 450x450 (18x18) ORANGE FLAG ATTACHED *
- SIGN ON PORTABLE OR PERMANENT SUPPORT *
- TYPE II BARICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT

*ALL SIGNS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 1.5 m (5').

GENERAL NOTE

WORK ZONE SPEED LIMIT SIGNS AND FLAGGER SIGNS SHALL BE AS SHOWN ON STANDARD 701401

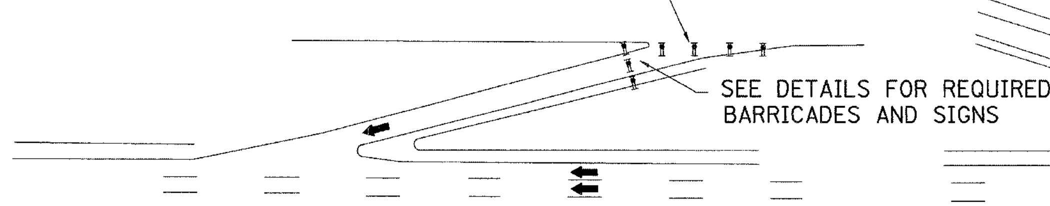
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
HS 04-2004	4/27/04
MULTI-LANE WEAVE TAPER LENGTH	10/21/04
DEL PS 701404-T4 ADD HS 701446	10/22/04

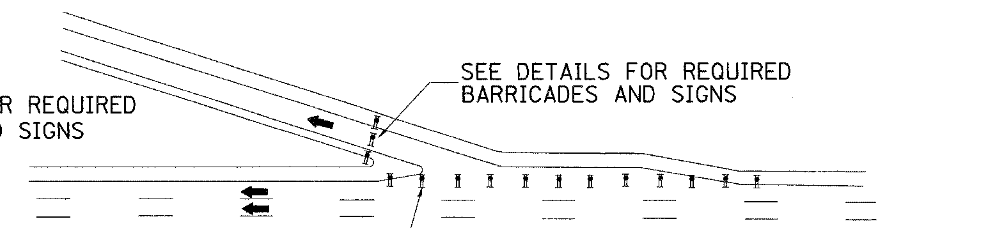
ILLINOIS DEPARTMENT OF TRANSPORTATION
I-74 PROJECT STANDARD 701403-I74
TRAFFIC CONTROL DETAILS FOR FREEWAY
CENTER LANE CLOSURE
MULTI-LANE WEAVE
SHOULDER LANE

DRAWN BY
DATE 7/18/02
CHECKED BY

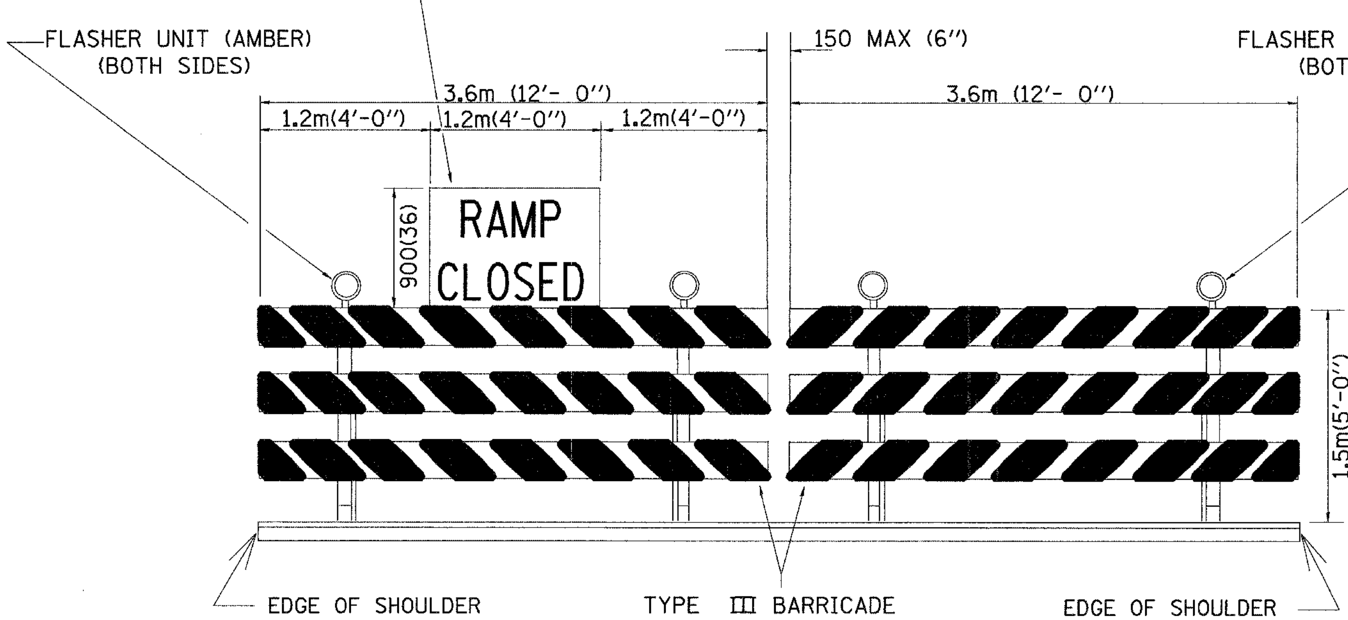
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	681
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ENTRANCE RAMP CLOSURE



EXIT RAMP CLOSURE



DETAIL FOR REQUIRED BARRICADES & SIGNS

BLACK LEGEND ON ORANGE
REFLECTORIZED BACKGROUND

RAMP CLOSED AHEAD SIGN

NOTES:

1. CONES MAY BE SUBSTITUTED FOR TYPE I AND TYPE II BARRICADES AND DRUMS DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 700 (28″) IN HEIGHT.
2. STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.

All dimensions are in millimeters (inches) unless otherwise noted.

DATE	REVISIONS	BY

ILLINOIS DEPARTMENT OF TRANSPORTATION

I-74 PROJECT STANDARD 701411-I74

ENTRANCE AND EXIT RAMP CLOSURE DETAILS

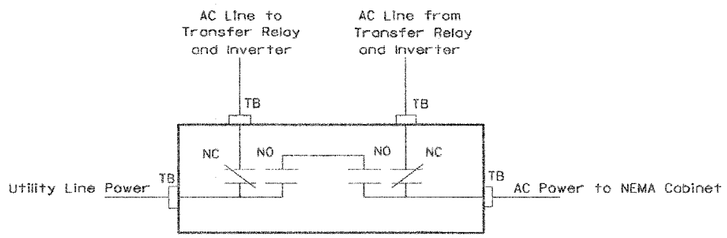
SCALE: NONE — DRAWN BY

DATE 10/09/01 — CHECKED BY

68201

F.A._ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			1366	662
STA.		TO STA.		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

(a) Manual Bypass Switch (typical)



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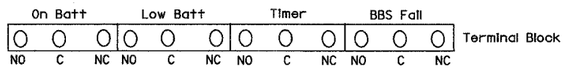
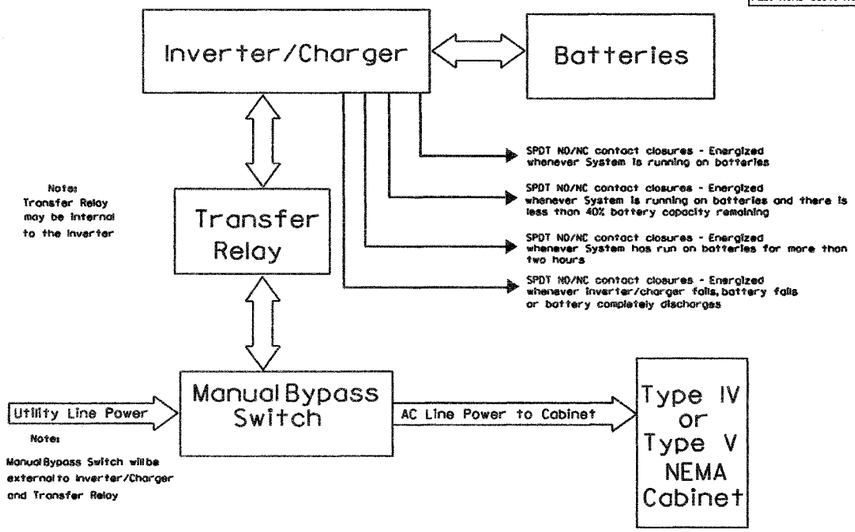
ıll all toggle simultaneously
ıually operated switch.
n shall only switch line.
nt Ground are not switched
ted to NEMA Cabinet buses.

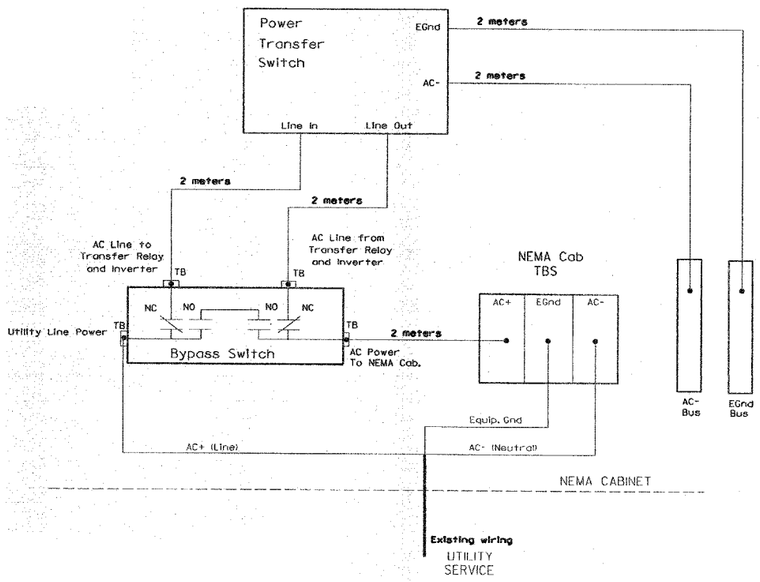


Notes:
1. NO/NC contracts may either share or use separate commons.

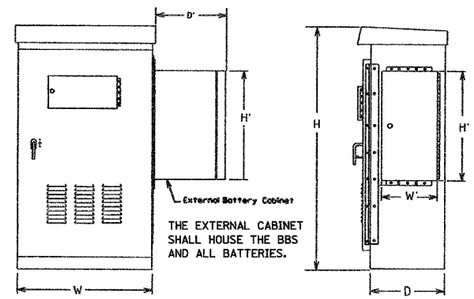
MANUAL BYPASS SWITCH RELAY CONTACTS



BLOCK DIAGRAM



UTILITY POWER CONNECTION DIAGRAM

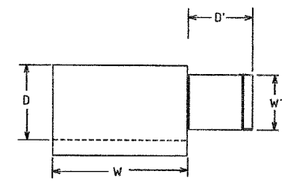


NEMA Standard TS 2 Sheet Aluminum Unpainted Cabinets Nominal Outline Dimensions

Mounting & Use	Cabinet Type & Size	Height H/H' inch	Width W/W' inch	Depth D/D' inch
• Wall Mounted Housing Batteries	Type I/ Size 1	26	17	15
	Type II/ Size 2	30	18	15
Pad Mounted Housing Signal Devices	Type III/ Size 5	40	24	17
	Type IV / Size 6	55	44	26
	Type V / Size 7	77	44	26

• Police Compartment not provided.

CABINET DETAIL



TOP VIEW

CABINET NOTES

1. THE BOTTOM OF THE EXTERNAL BBS CABINET SHALL BE PLACED ON THE OUTER EDGE OF THE CABINET FOUNDATION FOR SUPPORT.
2. THE EXTERNAL BBS CABINET SHALL BE SECURELY FASTENED TO THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET IN A METHOD THAT IS APPROVED BY THE ENGINEER.
3. THE MANUAL BYPASS SWITCH SHALL BE MOUNTED IN THE EXISTING TRAFFIC SIGNAL CABINET.
4. ALL OTHER BATTERY BACKUP SYSTEM COMPONENTS SHALL BE INSTALLED IN THE EXTERNAL BBS CABINET.
5. THE EXTERNAL BBS CABINET MAY REQUIRE AN EQUIPMENT STAND FOR ADDITIONAL GROUND LEVEL SUPPORT. THE COST FOR THE EQUIPMENT STAND SHALL BE INCLUDED IN THE BID PRICE FOR THE BBS SYSTEM.

REVISIONS	
NAME	DATE
CABINET DETAIL	1/16/04

ILLINOIS DEPARTMENT OF TRANSPORTATION

I-74 PROJECT STANDARD 857003-I74
BATTERY BACKUP SYSTEM

DRAWN BY

DATE 8/25/03

CHECKED BY

URS CORPORATION ST. LOUIS, MO	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	74	(90-1)IR-2(90)13,14,14-1R-1	TAZEWELL	1366	683
	STA.	TO STA.			
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

68201

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	DRAWN		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	DRAWN		
	AREAS		
	AREAS CHECKED		

54 52 50 48 46 44 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10

146 145 144 143 142 141 140 139 138 137 136 135 134

WB 74-E

EB 74-E

1:2

R.O.W.

EXIST.

152+400.000

W.B. I-74

FINAL SURVEY	SURVEYED	BY	DATE
ORIGINAL SURVEY	PLOTTED		
NOTE BOOK	TYPING DATE		
NO.	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
ORIGINAL SURVEY	PLOTTED		
NOTE BOOK	TYPING DATE		
NO.	AREAS CHECKED		

54 52 50 48 46 44 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10

68201

URS CORPORATION ST. LOUIS, MO	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	74	(90-1)IR-2,90(3,14,14-1)IR-1	TAZEWELL	1366	694
	STA.		TO STA.		
	FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

146 145 144 143 142 141 140 139 138

WB 74-E

EB 74-E

I-2

152+425.000

54 52 50 48 46 44 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10

W.B. I-74

68201

URS CORPORATION ST. LOUIS, MO	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	74	(90-1)RR-2,90(13,14,14-1)RR-1	TAZEWELL	1366	685
	STA.	TO STA.			
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY | ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
FIELD DATE
AREAS CHECKED
BY
DATE

54 52 50 48 46 44 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10

147 146 145 144 143 142 141 140 139 138 137 136 135 134

145.203
J4
145.365
WB74-E
EB74-E
600mm RCP
R.O.W.
EXIST.

E3A-1=6.93
F3A-1=0.48
T3A-1=0.27

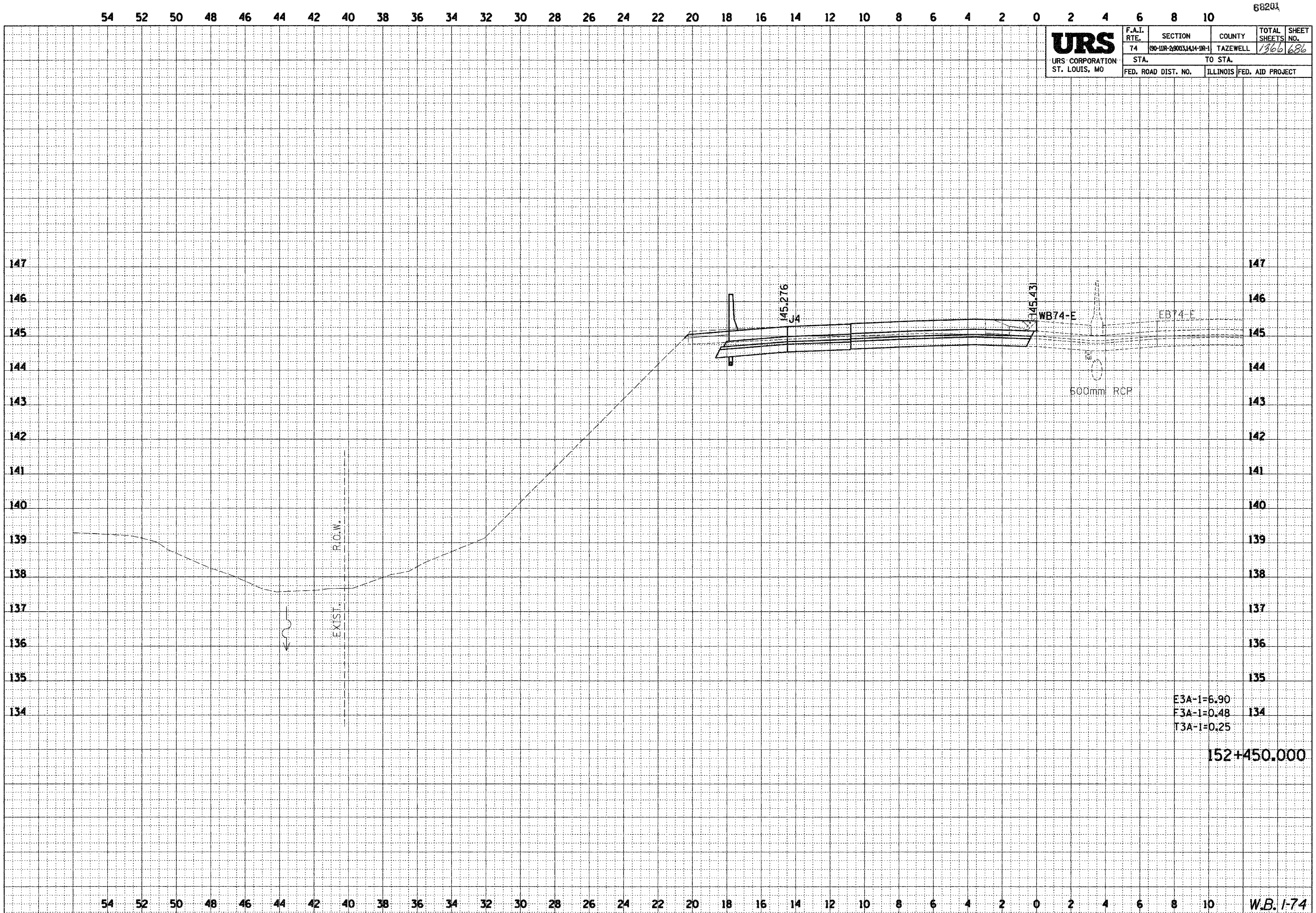
152+445.837

W.B. 1-74

68201

URS CORPORATION
ST. LOUIS, MO

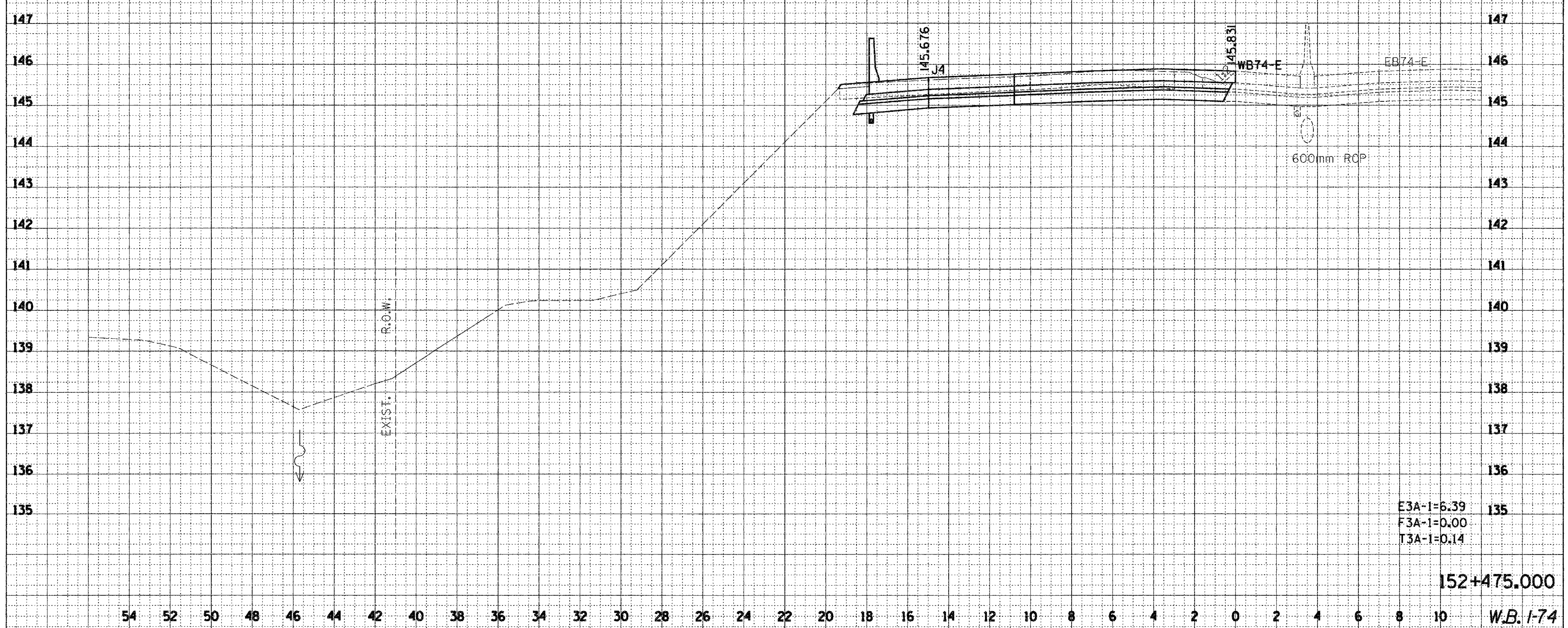
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(90-1)R-2;90(13,14,14-1)R-1	TAZEWELL	1366	686
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



68201

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(90-1UR-2;90(13,14,14-UR-1	TAZEWELL	1366	687
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

URS CORPORATION
ST. LOUIS, MO



E3A-1=6.39
F3A-1=0.00
T3A-1=0.14

152+475.000

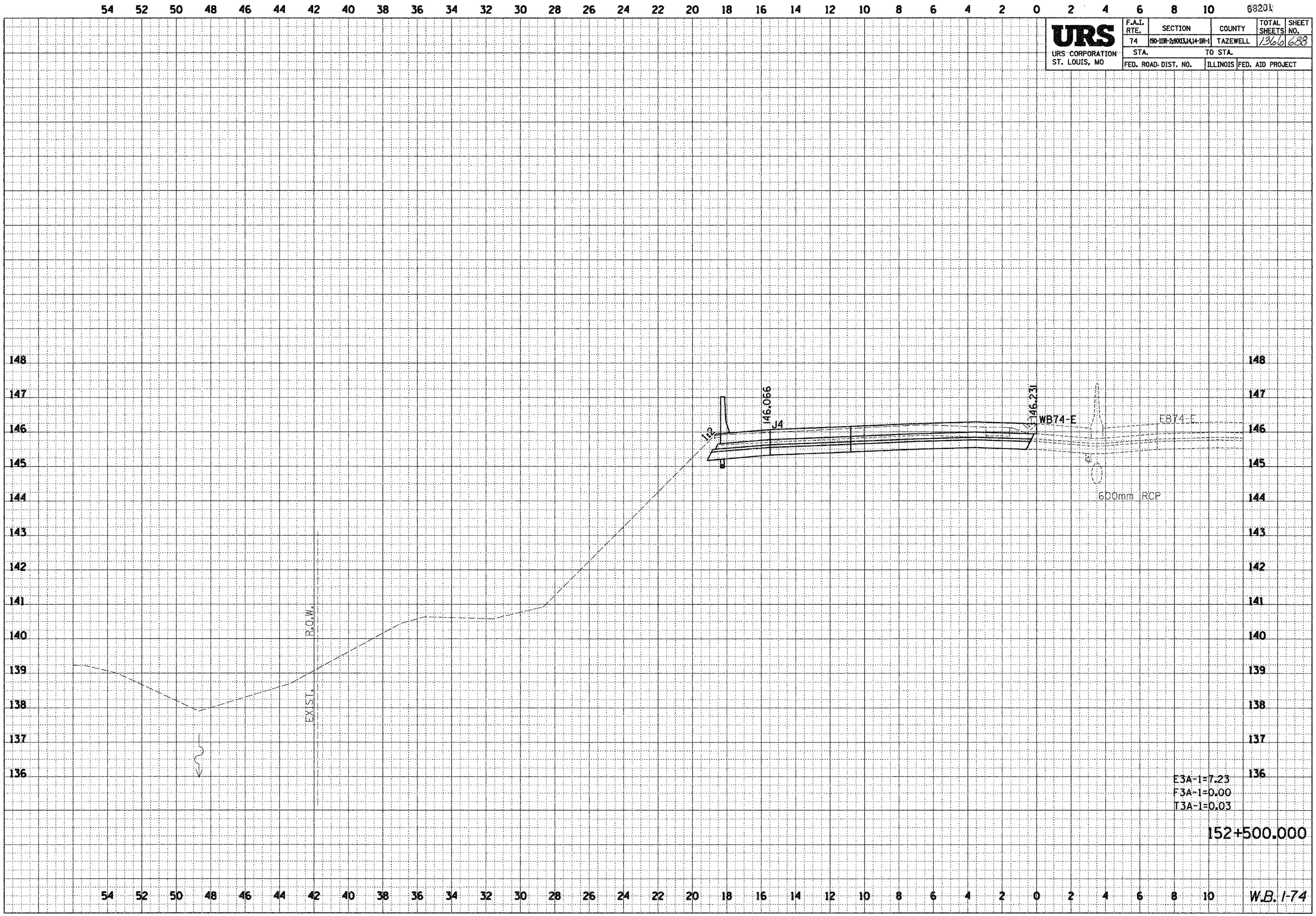
W.B. I-74

FINAL SURVEY NOTE BOOK NO. — SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED — BY — DATE

ORIGINAL SURVEY NOTE BOOK NO. — SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED — BY — DATE

68201

URS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
URS CORPORATION ST. LOUIS, MO	74	(90-11)R-2;90(13,14,14-1)R-1	TAZEWELL	1366	688
	STA.		TO STA.		
	FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

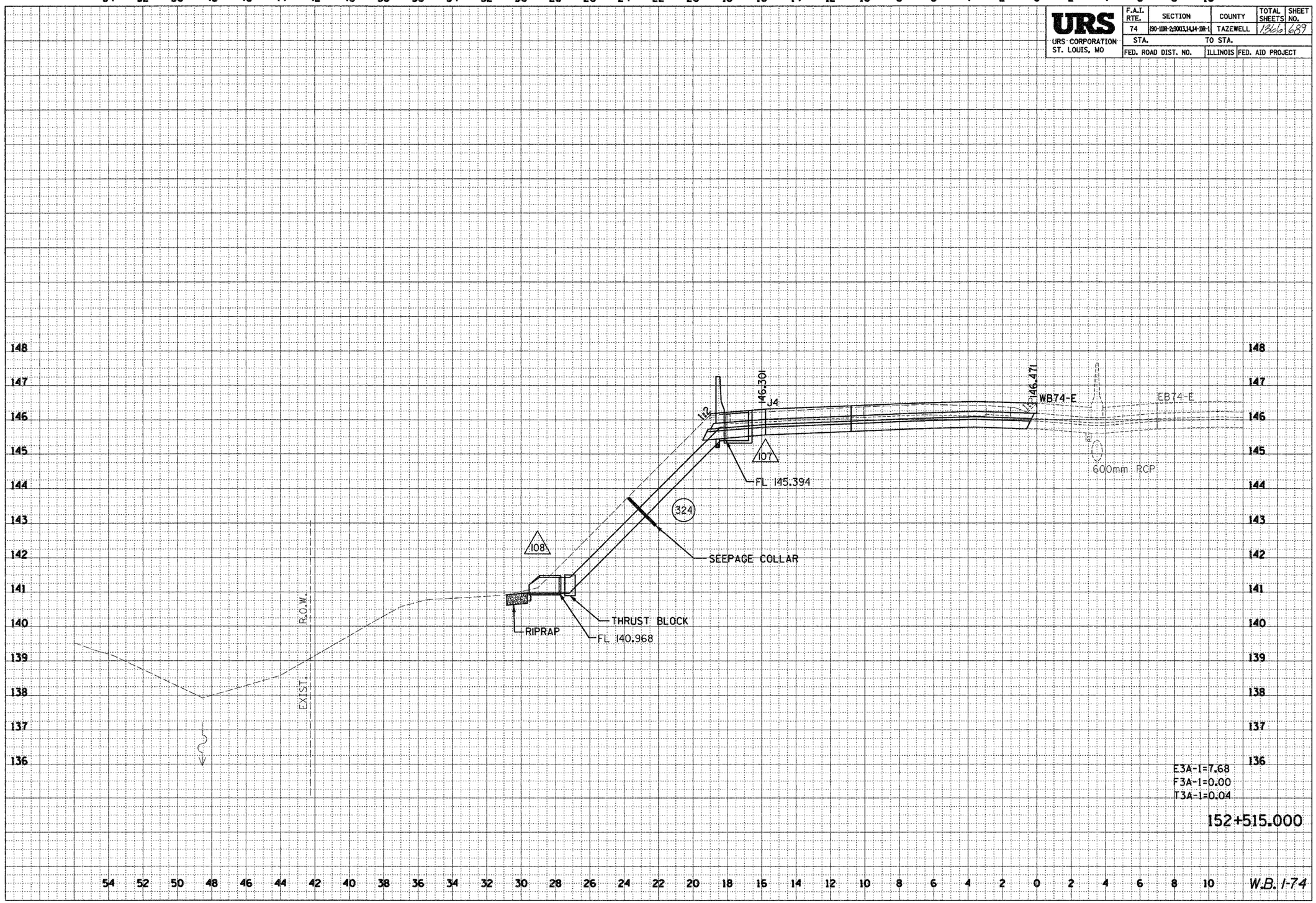
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

68204

URS CORPORATION ST. LOUIS, MO	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	74	(80-IIR-2)9003,14,14-IR-1	TAZEWELL	1366	689
	STA.		TO STA.		
	FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — REVISED — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — REVISED — AREAS — AREAS CHECKED — BY — DATE



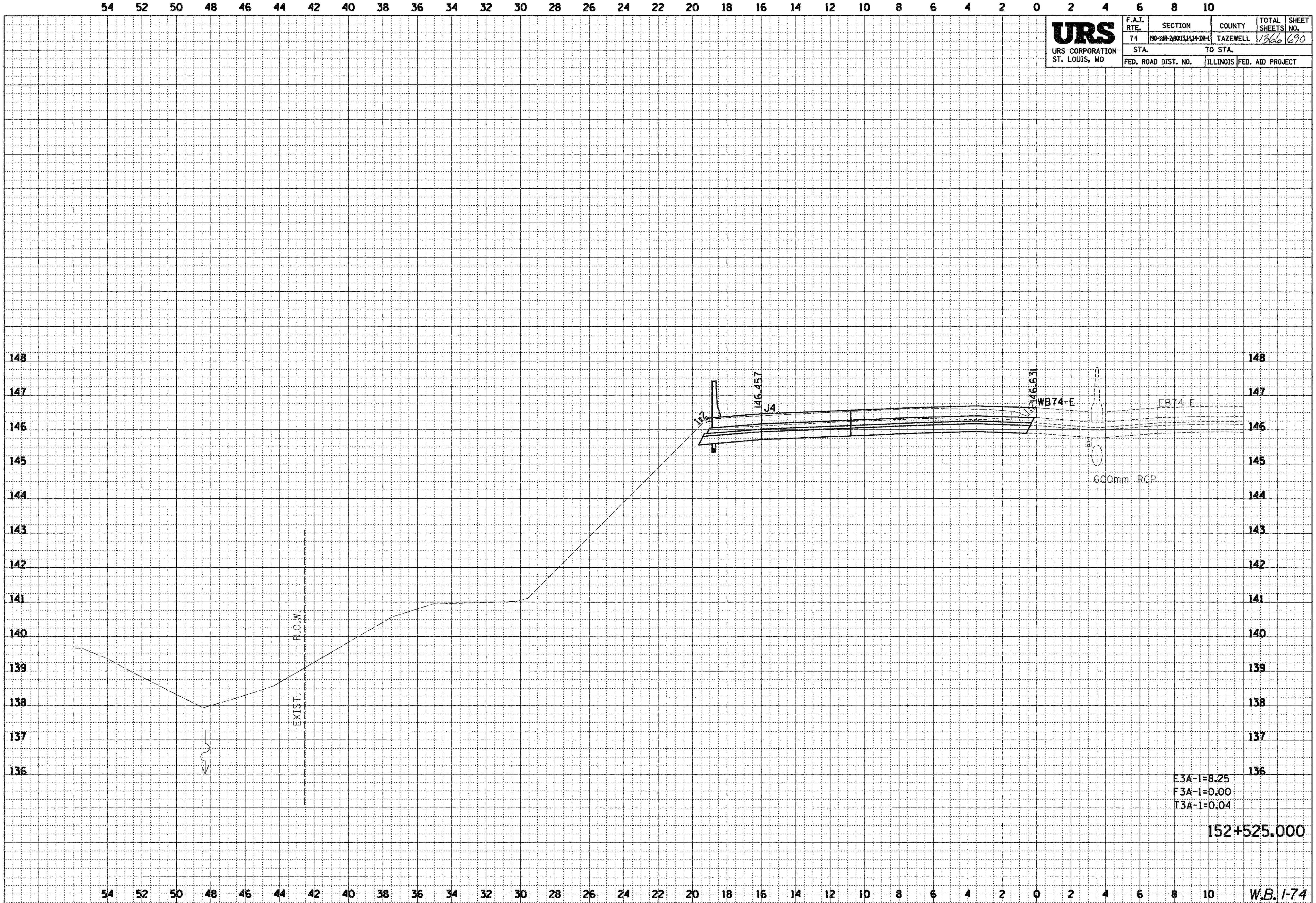
E3A-1=7.68
F3A-1=0.00
T3A-1=0.04

152+515.000

W.B. I-74

68201

URS URS CORPORATION ST. LOUIS, MO	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	74	(90-1)R-2;90(13,14,14-1)R-1	TAZEWELL	1366	690
	STA.		TO STA.		
	FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

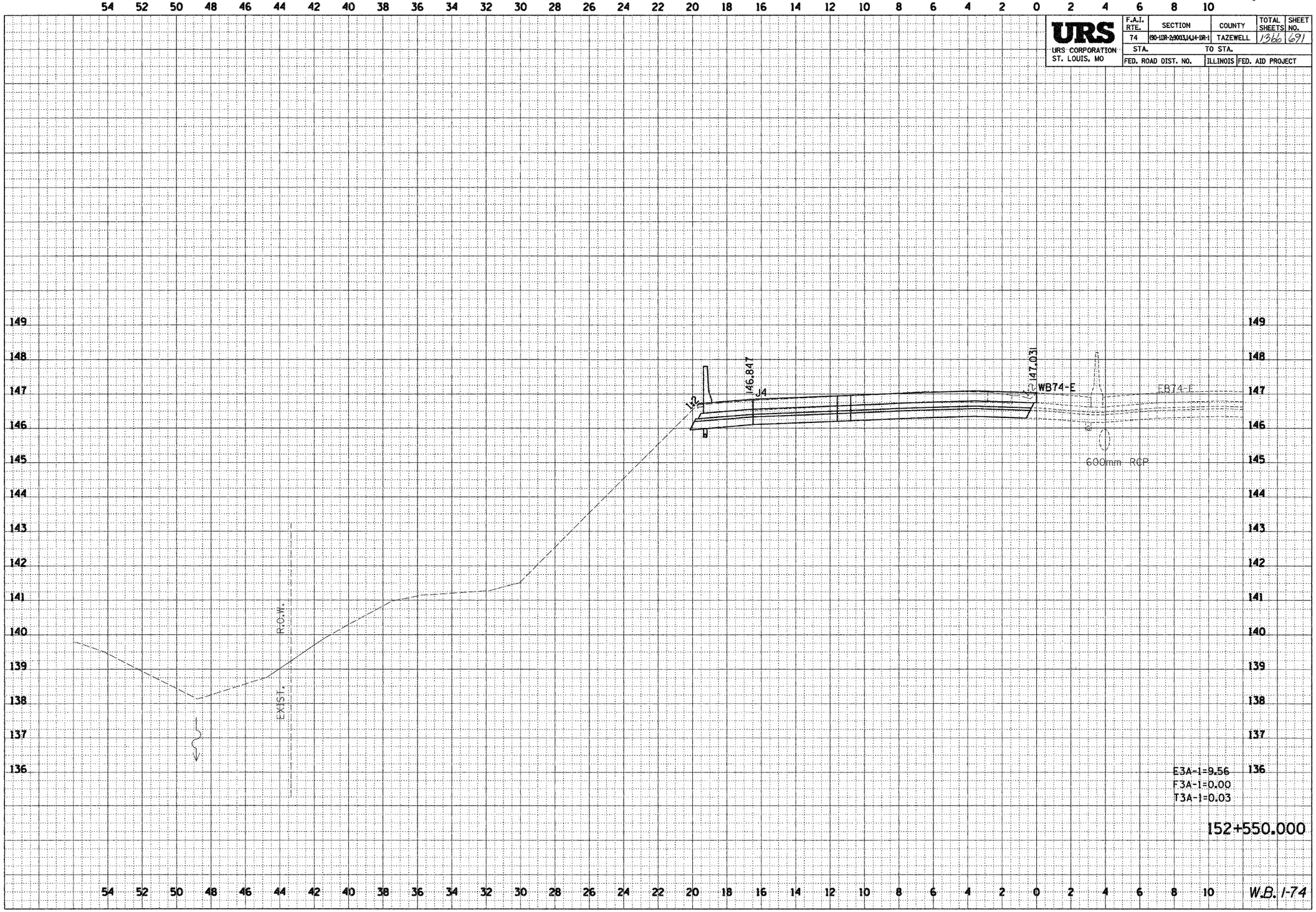


66201

URS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
URS CORPORATION ST. LOUIS, MO	74	(90-1)IR-2(90)3,(4,)4-(1)R-1	TAZEWELL	1366	691
	STA.		TO STA.		
	FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		



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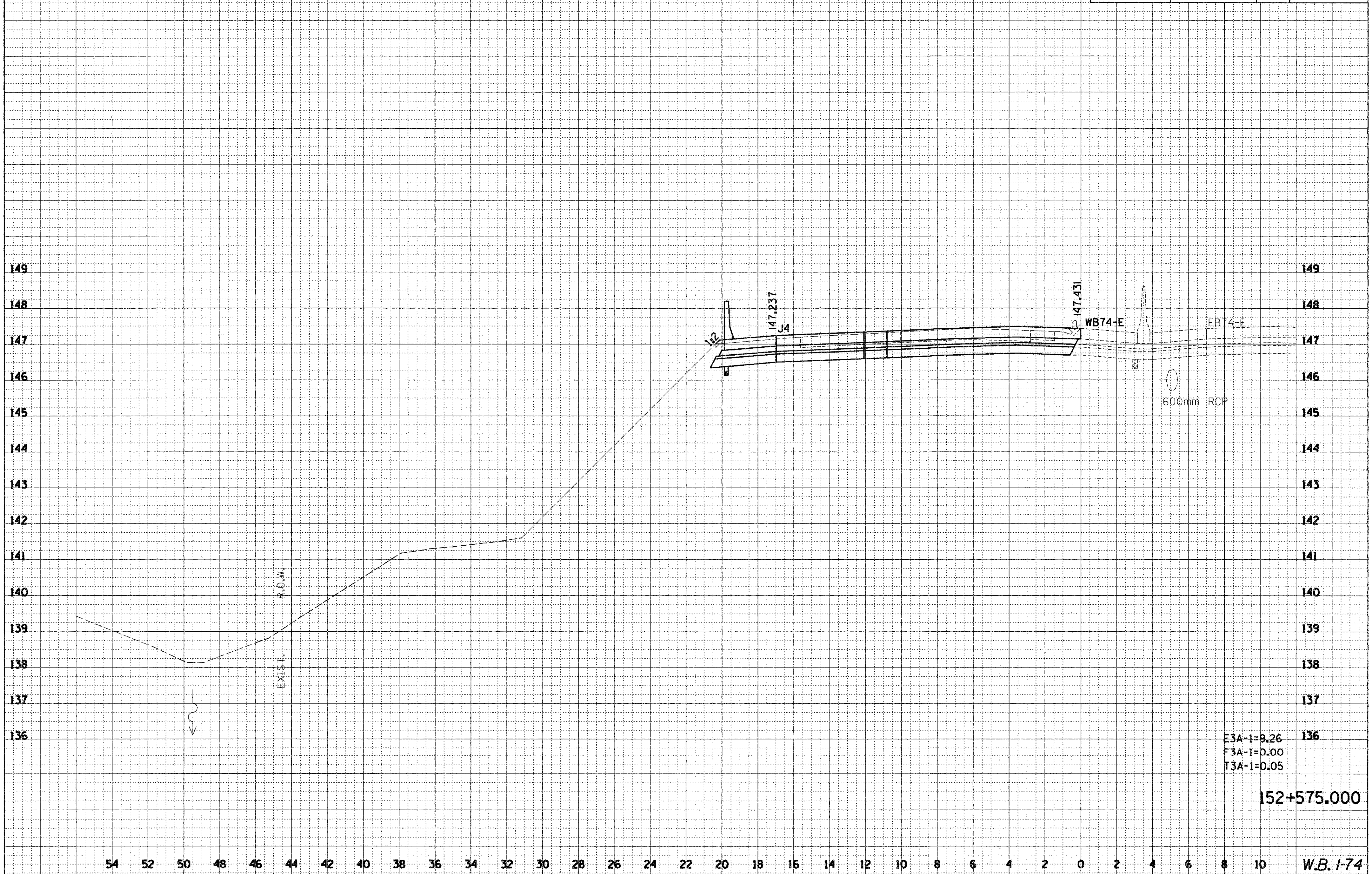
68201

URS CORPORATION ST. LOUIS, MO	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	74	(90-1DR-2;90013,14,14-1DR-1	TAZEWELL	1366	692
	STA.		TO STA.		
	FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

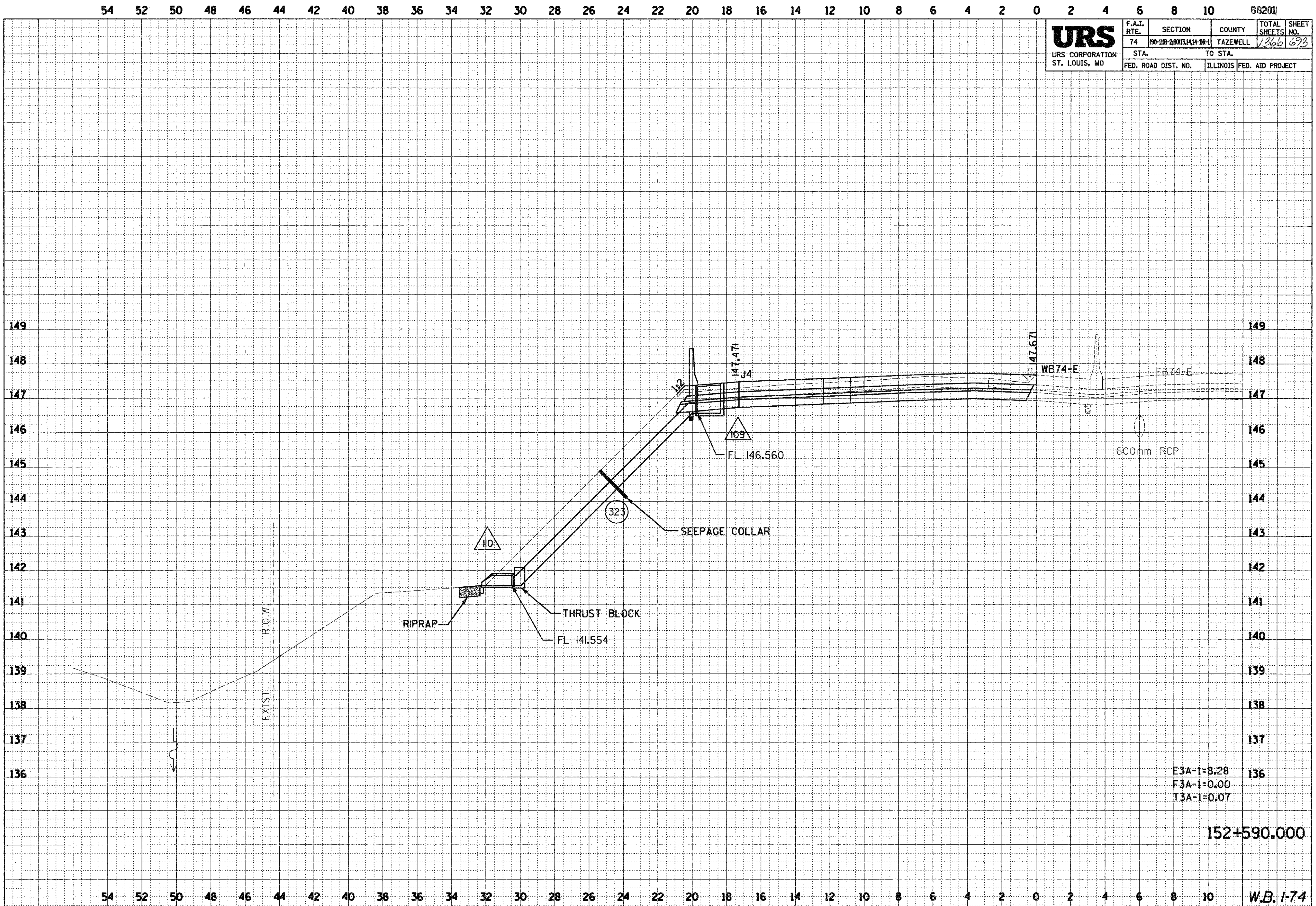
ORIGINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



68201

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(90-1)R-2,(90)13,14,14-1R-1	TAZEWELL	1366	693
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

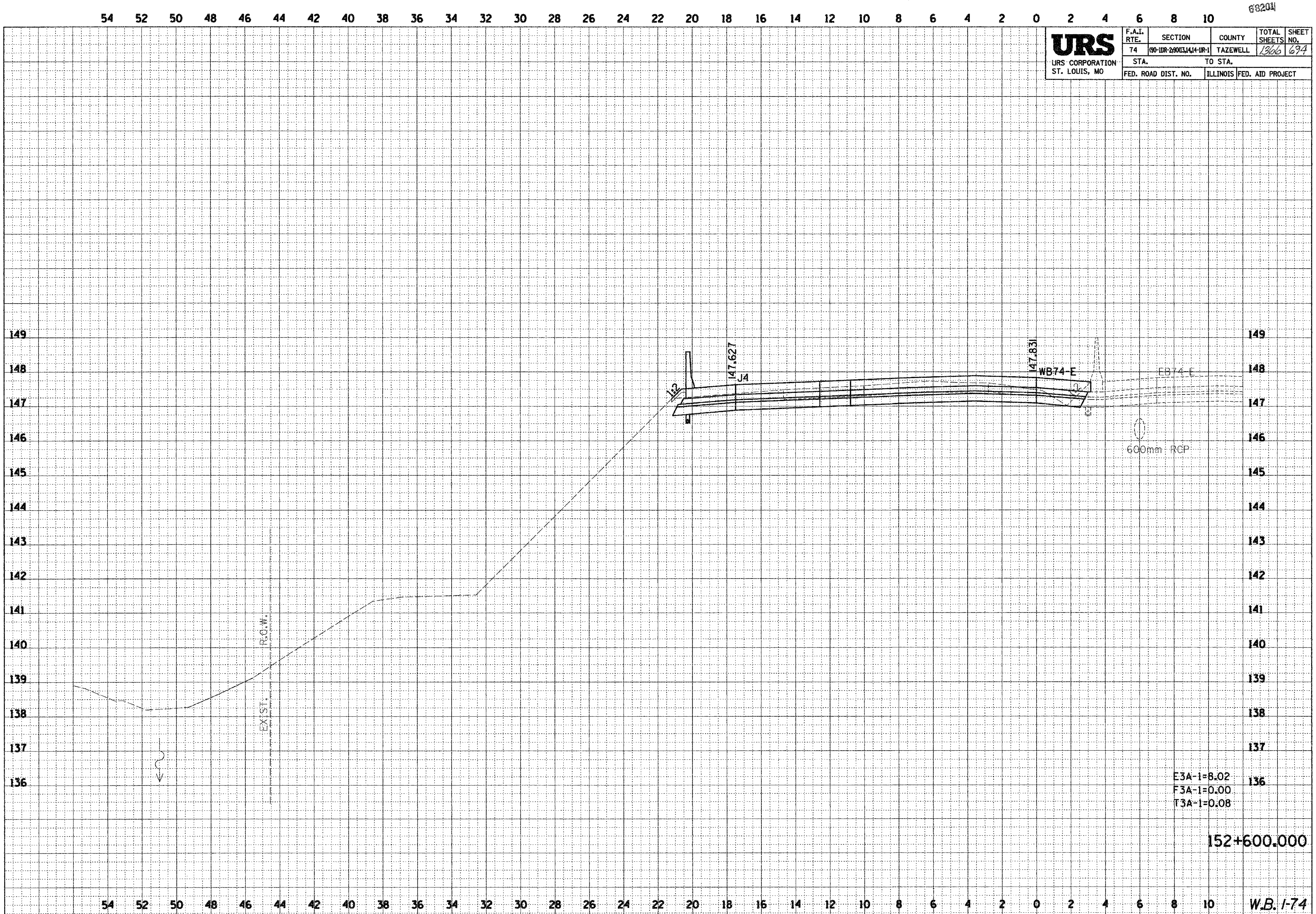
URS CORPORATION
ST. LOUIS, MO



68201

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(90-1IDR-2,90013,14,14-1IR-1	TAZEWELL	1366	694
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

URS CORPORATION
ST. LOUIS, MO



68201

URS CORPORATION ST. LOUIS, MO	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	74	(60-IUR-2)9003,14,14-IUR-1	TAZEWELL	1366	695
	STA.	TO STA.			
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	PARKWAY	
	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	PARKWAY	
	AREAS	
	AREAS CHECKED	

148.01

J4

148.29

WB74-E

EB74-E

600mm RCP

1:2

R/O/W

EXIST.

AT&T (Fiber Optic)

E3A-1=5.01
F3A-1=0.01
T3A-1=1.15

152+625.000

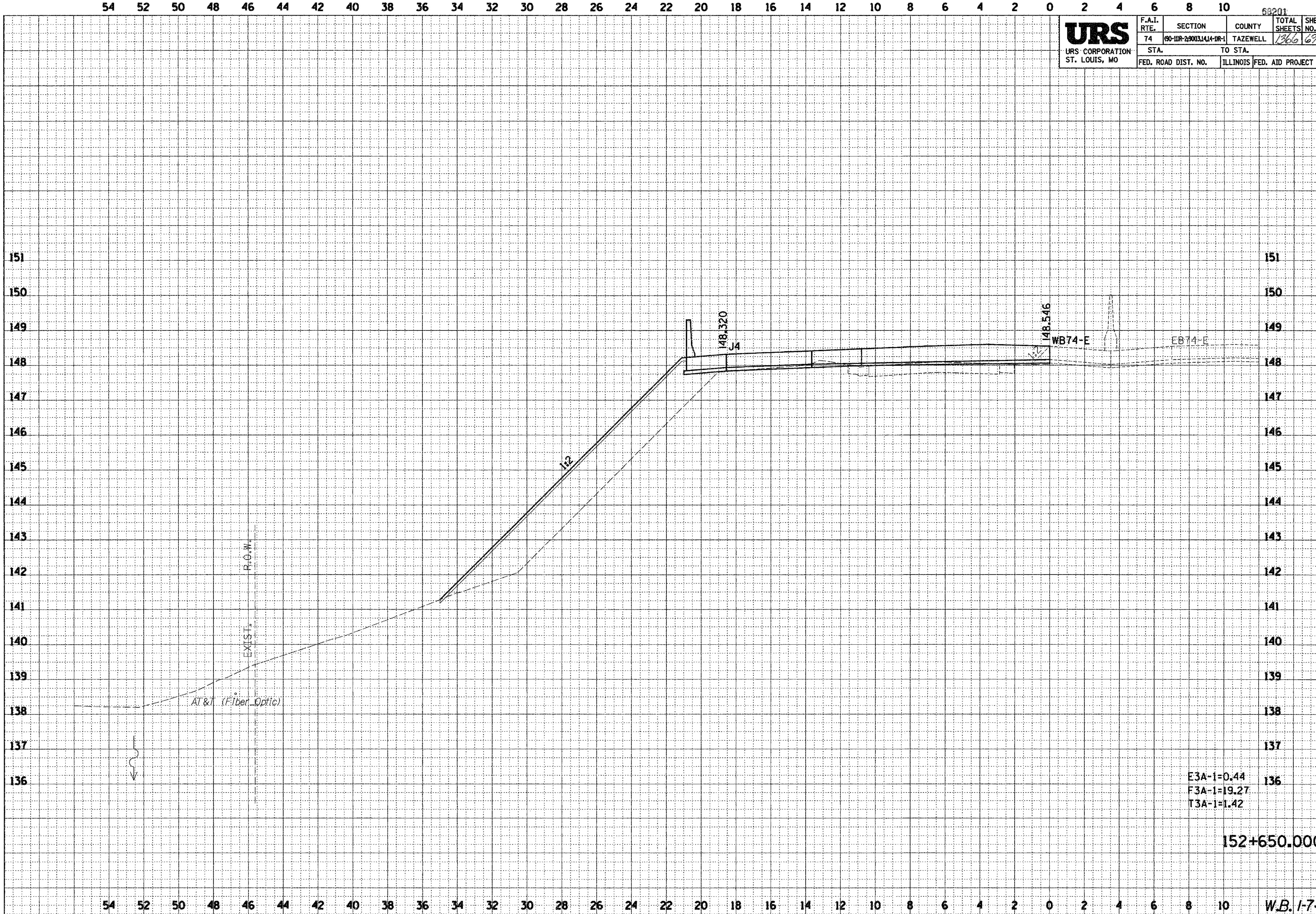
W.B. I-74

...\phase2\ref\xs1100-50md.dgn 12/19/2004 2:21:13 PM

68201

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(90-1)R-2;90(13,14,14-1)R-1	TAZEWELL	1366	696
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

URS CORPORATION
ST. LOUIS, MO



68201

URS CORPORATION ST. LOUIS, MO	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	74	(90-1)R-2,90(3,4,14-1)R-1	TAZEWELL	1366	697
	STA.		TO STA.		
	FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

54 52 50 48 46 44 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10

151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136

148.384
J4
148.616
WB74-E
EB74-E
1:2
R.O.W.
EXIST.

E3A-1=0.03
F3A-1=50.74
T3A-1=1.61

152+656.108
(BACK OF ABUTMENT)

W.B. I-74

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED	BY	DATE
PLOTTED		
TEMPLATE		
WORK		
AREAS CHECKED		

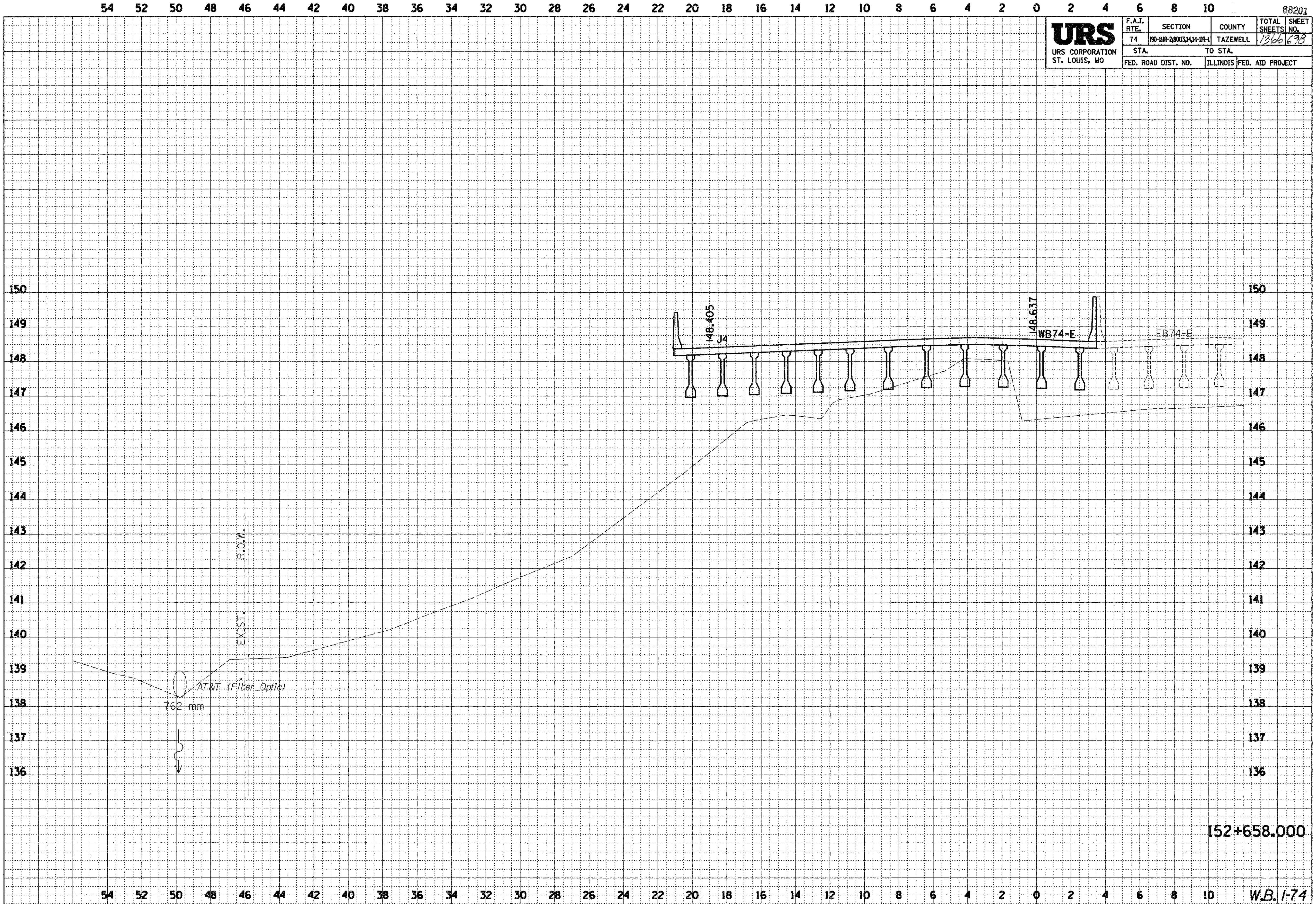
ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED	BY	DATE
PLOTTED		
TEMPLATE		
WORK		
AREAS CHECKED		

..\Phase2\ref\xs102-54w6.dgn 12/19/2004 2:21:20 PM

68201

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(90-1UR-2,9003,14,14-1UR-1	TAZEWELL	1366	698
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

URS CORPORATION
ST. LOUIS, MO



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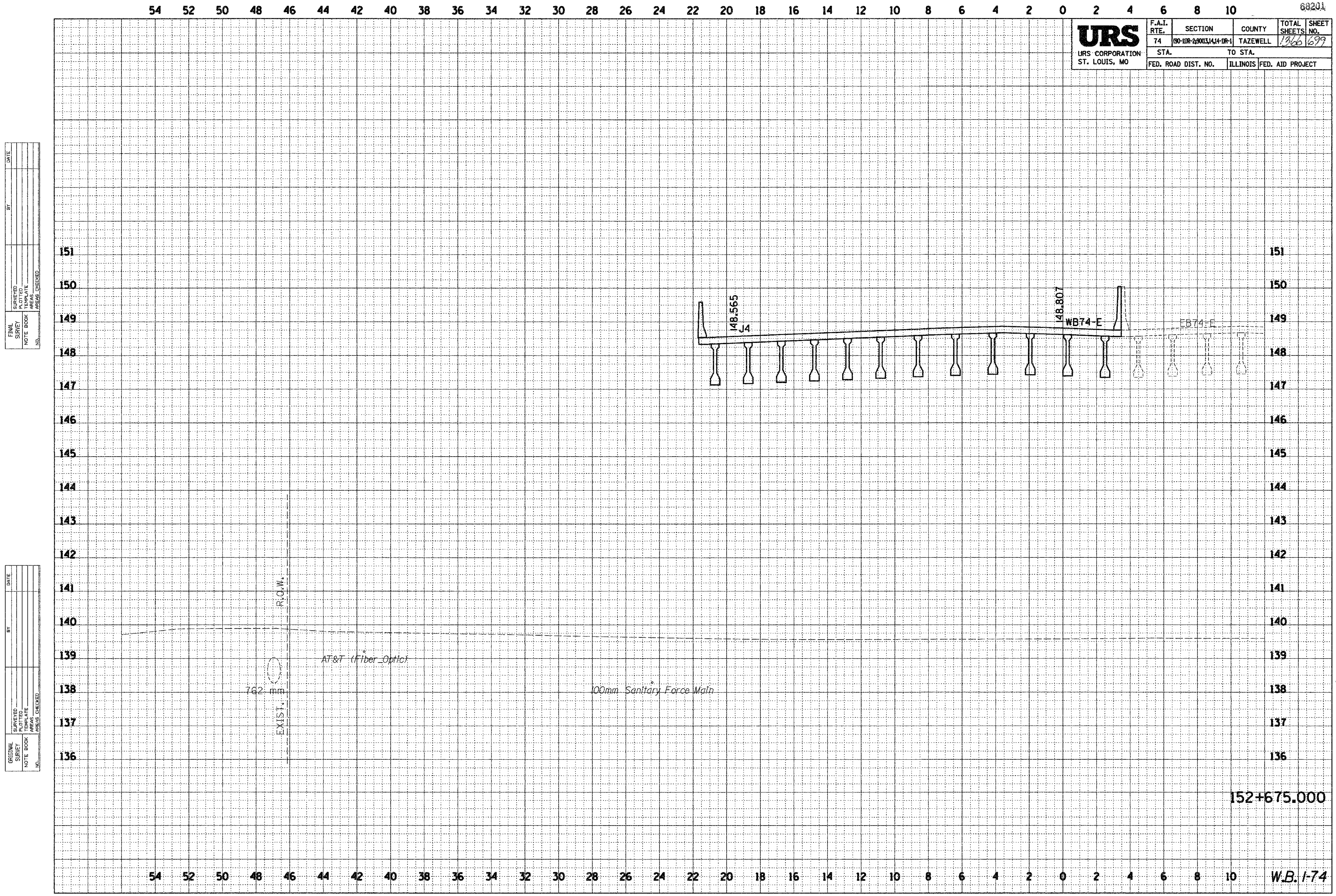
68201

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(90-1)R-2,90(13,14,14-1)R-1	TAZEWELL	1366	699

URS
URS CORPORATION
ST. LOUIS, MO

STA. TO STA.

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



68201

URS CORPORATION ST. LOUIS, MO	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	74	(90-1)IR-2,9003,14,14-IR-1	TAZEWELL	1366	700
	STA.	TO STA.			
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY — NOTE BOOK — NO. — BY — DATE
SURVEYED — PLOTTED — TRANSLATE — AREAS — AREAS CHECKED

ORIGINAL SURVEY — NOTE BOOK — NO. — BY — DATE
SURVEYED — PLOTTED — TRANSLATE — AREAS — AREAS CHECKED

54 52 50 48 46 44 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10

151 150 149 148 147 146 145 144 143 142 141 140 139 138 137

148.736

149.001

WB74-E

EB74-E

EXIST. R.O.W.

762 mm

152+700.000

W.B. I-74