

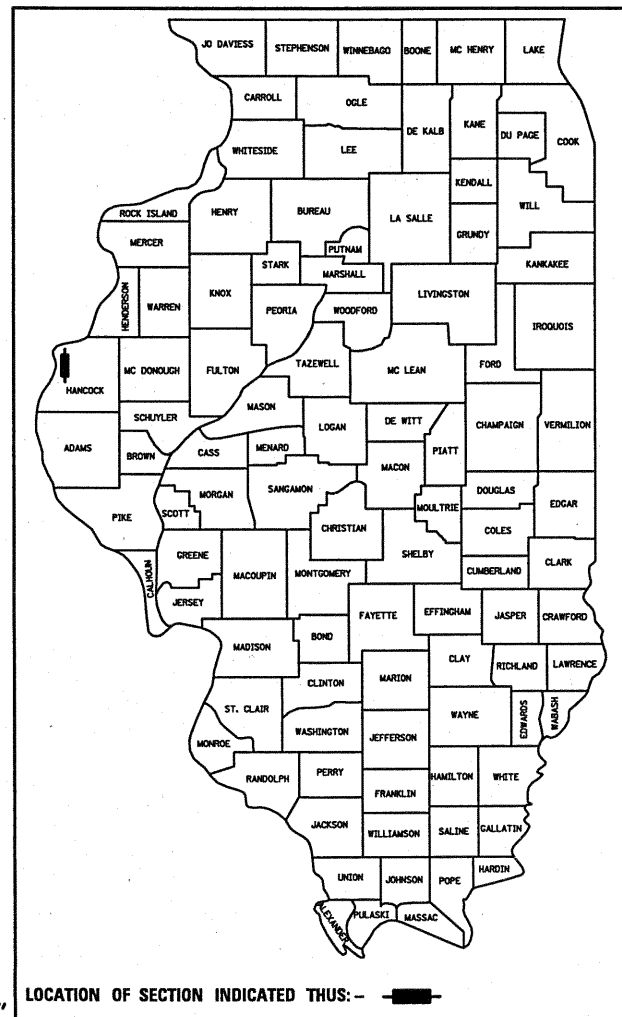
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	123 B-1	HANCOCK	70	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 72992		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAP ROUTE 506 (IL 96)  
SECTION 123 B-1  
PROJECT: F-0506(012)  
STRUCTURE REPLACEMENT  
HANCOCK COUNTY  
C-96-066-08

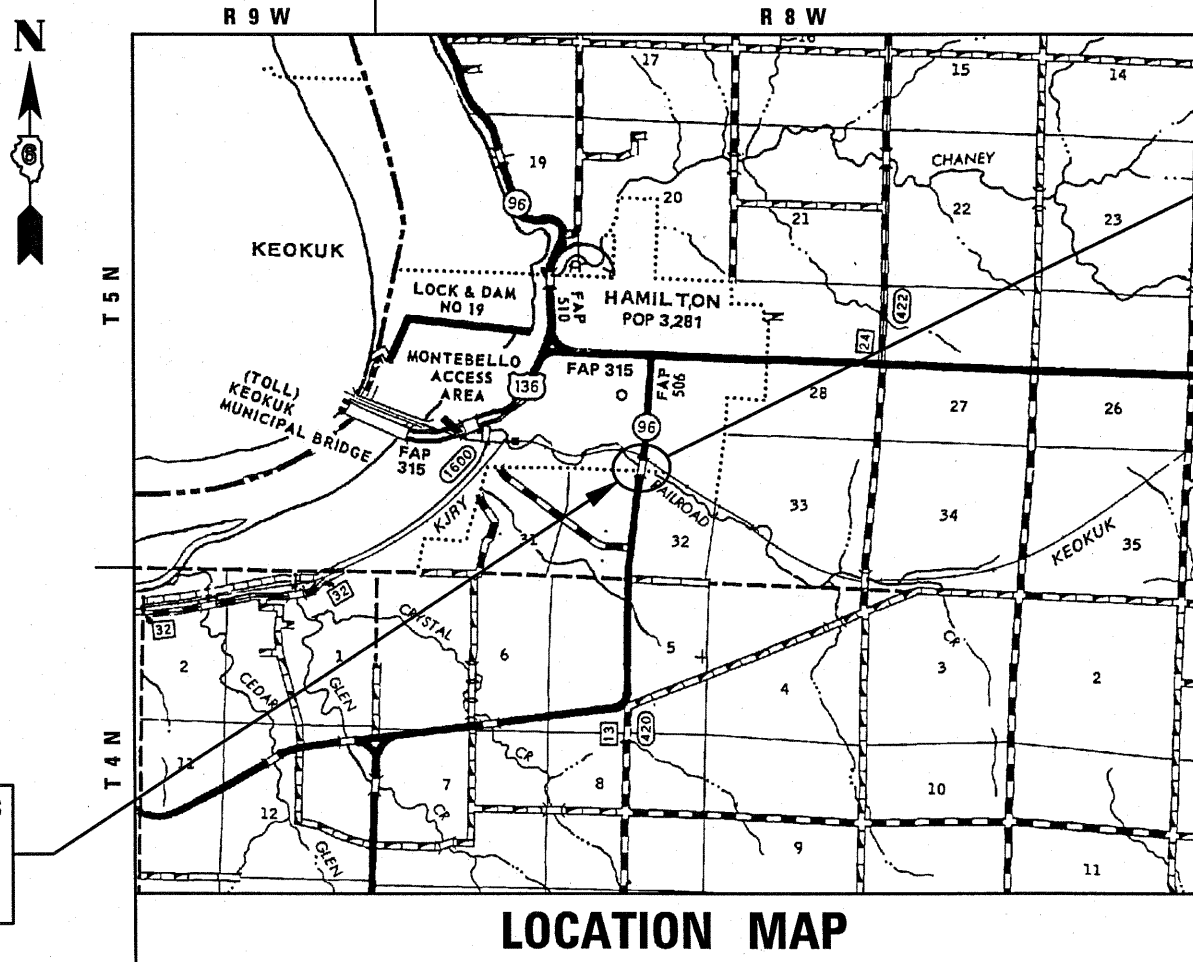
D-96-525-05



LOCATION OF SECTION INDICATED THUS: —■—

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3 - 9	SUMMARY OF QUANTITIES
10 - 11	TYPICAL SECTIONS
12 - 15	SCHEDULE OF QUANTITIES
16	ALIGNMENT, TIES, & BENCHMARKS
17 - 19	PLAN AND PROFILE SHEETS
20	GRADING PLAN
21	EROSION PROTECTION DETAILS
22	BRIDGE APPROACH SHOULDER PAVEMENT DRAIN DETAIL
23	DISTRICT 6 ENTRANCE DETAILS
24	WIDE LOAD DETOUR MAP
25 - 26	TRAFFIC BARRIER TERMINAL TYPE 6 (SPECIAL)
27 - 31	MAINTENANCE OF TRAFFIC PLANS / DETAILS
32 - 34	EROSION CONTROL PLANS
35 - 57	STRUCTURE PLANS
58 - 70	CROSS SECTIONS

IDOT HIGHWAY STANDARDS			
000001-06	630301-05	701011-02	729001-01
280001-05	631031-09	701201-03	780001-02
406201-01	635001-01	701306-03	781001-03
420401-08	635006-03	701311-03	857006-01
482011-03	635011-02	701321-11	886001-01
542306-02	666001-01	701326-0A	886006-01
542401-01	667101-01	701901-01	BLR 17-4
606201-02	701001-02	704001-06	BLR 18-5
609001-05	701006-03	720011-01	
630001-09			



STA. 38+29.50, 0° SKEW  
PROJECT INCLUDES REMOVAL OF THE EXISTING SINGLE SPAN BRIDGE; 43'-2" BK TO BK OF ABUTMENT, 33'-0" O. TO O.; PPC DECK BEAMS ON CLOSED ABUTMENTS (EX SN 034-0031); AND IT'S REPLACEMENT WITH A SINGLE SPAN BRIDGE; 115'-0" BK TO BK OF ABUTMENT, 39'-2" O. TO O.; RC DECK ON 63" BULB-T, OPEN INTEGRAL ABUTMENTS (PR SN 034-0522)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED 8-11 2010

*Regan J. Smith*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Dec 10 2010  
*Scott E. Stull P.E. /a*  
ACTING ENGINEER OF DESIGN AND ENVIRONMENT

Dec 10 2010  
*Christine M. Reed /a*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

**ie** CONSULTANTS, INC.  
6420 SOUTH SIXTH STREET  
SPRINGFIELD, ILLINOIS 62712  
TEL. (217) 529-8027  
FAX (217) 529-4543  
WWW.IE-CONSULTANTS.COM

BEGIN IMPROVEMENTS  
STA. 34+00  
END IMPROVEMENTS  
STA. 42+40

CALL **J.U.L.I.E.** (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS)  
48 Hours (2 working days) Before You Dig.  
TOLL FREE: 1 (800) 892-0123

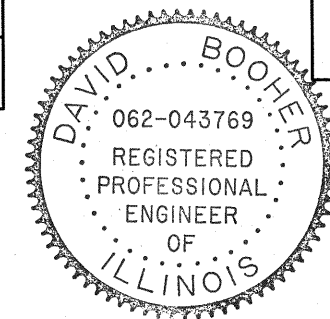
APPROXIMATE SCALE: 0 1 2 MILES

NET LENGTH OF IMPROVEMENT = 840.00 FEET (0.159 MILES)

CLASSIFICATION = MINOR ARTERIAL, RURAL

CURRENT ADT: 2,534 (2012) PROJECTED ADT: 3,765 (2032)

86% PV 8.8% SU 5.2% MU



*David R. Booher*  
DAVID R. BOOHER ILLINOIS P.E. 062-043769 DATE 9-9-2010  
EXPIRES 11/30/2011

PROJECT ENGINEER: JOHN NEGANGARD (217) 782-6990  
PROJECT MANAGER: VICTOR YOUNG (217) 557-7897  
CONTRACT NO. 72992



ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

LOCATION OF WORK				80% FED. 20% STATE	CONSTRUCTION TYPE CODE		
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0004	STRUCTURE 0011		
20100500	TREE REMOVAL, ACRES	ACRE	1	1			
20200100	EARTH EXCAVATION	CU YD	474	474			
20200200	ROCK EXCAVATION	CU YD	100	100			
* 20300100	CHANNEL EXCAVATION	CU YD	1,637	1,637			
20800150	TRENCH BACKFILL	CU YD	5	5			
* 21400100	GRADING AND SHAPING DITCHES	FOOT	200	200			
25000200	SEEDING, CLASS 2	ACRE	0.4	0.4			
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	36	36			
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	36	36			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	36	36			
25100115	MULCH, METHOD 2	ACRE	0.4	0.4			
28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	50	50			
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	300	300			
28000400	PERIMETER EROSION BARRIER	FOOT	500	500			
28000500	INLET AND PIPE PROTECTION	EACH	4	4			

\* INDICATES SPECIAL REQUIRED

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE			
				ROADWAY 0004	STRUCTURE 0011		
28001000	AGGREGATE (EROSION CONTROL)	TON	100	100			
28100707	STONE DUMPED RIPRAP, CLASS A4	SQ YD	1,933	1,933			
28200200	FILTER FABRIC	SQ YD	1,933	1,933			
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	SQ YD	619	619			
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	125	125			
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	3	3			
40600300	AGGREGATE (PRIME COAT)	TON	4	4			
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	107	107			
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	287	287			
40600990	TEMPORARY RAMP	SQ YD	57	57			
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	143	143			
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	135	135			
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	32	32			
44000100	PAVEMENT REMOVAL	SQ YD	265	265			

80% FED.  
20% STATE

\* INDICATES SPECIAL REQUIRED

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pw\work\p1dot\laughlinr1\0230976\807\SUM01.SHT	DRAWN -	REVISED -	506					123 B-1	HANCOCK	70	4	
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 72992				
PLOT DATE = Aug-11-2010 10:31:09AM	DATE -	REVISED -										

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

LOCATION OF WORK				CONSTRUCTION TYPE CODE			
CODE NO.	ITEM	UNIT	80% FED. 20% STATE TOTAL QUANTITY	ROADWAY 0004	STRUCTURE 0011		
* X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1,680	1,680			
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	127	127			
44004250	PAVED SHOULDER REMOVAL	SQ YD	441	441			
44200132	PAVEMENT PATCHING, TYPE II, 11 INCH	SQ YD	18	18			
48101200	AGGREGATE SHOULDERS, TYPE B	TON	160	160			
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	159	159			
48203100	HOT-MIX ASPHALT SHOULDERS	TON	74	74			
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1		
50105220	PIPE CULVERT REMOVAL	FOOT	50	50			
50200100	STRUCTURE EXCAVATION	CU YD	375		375		
50300225	CONCRETE STRUCTURES	CU YD	68.5		68.5		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	316.6		316.6		
50300260	BRIDGE DECK GROOVING	SQ YD	664		664		
50300280	CONCRETE ENCASEMENT	CU YD	6.6		6.6		
50300300	PROTECTIVE COAT	SQ YD	830		830		

\* INDICATES SPECIAL REQUIRED

Rev.

FILE NAME :	USER NAME = laughtinr1	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\p\work\p\ridot\laughtinr1\0230976\8077SUM01.SMT	DRAWN -	REVISED -	506			123 B-1	HANCOCK	70	5	
PLOT SCALE = 20.0000 1/2 in.	CHECKED -	REVISED -	CONTRACT NO. 72992							
PLOT DATE = Aug-11-2010 10:31:03AM	DATE -	REVISED -	FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.			

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

LOCATION OF WORK				CONSTRUCTION TYPE CODE			
CODE NO.	ITEM	UNIT	80% FED. 20% STATE TOTAL QUANTITY	ROADWAY 0004	STRUCTURE 0011		
50400735	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BULB T-BEAMS 63"	FOOT	793.5		793.5		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	71,770		71,770		
50800515	BAR SPLICERS	EACH	674		674		
51201900	FURNISHING STEEL PILES HP14X89	FOOT	186		186		
51500100	NAME PLATES	EACH	1		1		
542A5479	PIPE CULVERTS, <i>CLASS A, TYPE 1</i> EQUIVALENT ROUND-SIZE 24"	FOOT	48	48			
54214509	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 24"	EACH	2	2			
* 54215547	METAL END SECTIONS 12"	EACH	2	2			
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	78		78		
60105000	PIPE DRAINS, CORRUGATED STEEL OR ALUMINUM ALLOY 12"	FOOT	24	24			
* <b>20046304</b>	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	165		165		
60900215	TYPE C INLET BOX, STANDARD 609001	EACH	2	2			
** 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	362.5	362.5			
** 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	3	3			

\* INDICATES SPECIAL REQUIRED

\*\* Specialty Items

FILE NAME : c:\p\work\p\dot\laughlin\1\0230976\807SUM01.SHT	USER NAME : laughlin1	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>				F.A.P. RTE. 506	SECTION 123 B-1	COUNTY HANCOCK	TOTAL SHEETS 70	SHEET NO. 6
PLOT SCALE = 20.0000' / 1"	CHECKED -	REVISED -	SCALE:		SHEET NO. OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
PLOT DATE = Aug-11-2010 10:31:03 AM	DATE -	REVISED -											
<i>Rev.</i>													

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

LOCATION OF WORK				CONSTRUCTION TYPE CODE			
CODE NO.	ITEM	UNIT	80% FED. 20% STATE TOTAL QUANTITY	ROADWAY 0004	STRUCTURE 0011		
* **	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4		
* **	X6310218	TRAFFIC BARRIER TERMINAL, TYPE 6 (SPECIAL)	EACH	1	1		
	63200310	GUARDRAIL REMOVAL	FOOT	421	421		
	66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	9	9		
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8		
	67100100	MOBILIZATION	L SUM	1	1		
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
	70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1		
	70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1		
* X	7010202	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	1	1		
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	10		
* X	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1		
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	153	153		
	70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	3,360	3,360		

\* INDICATES SPECIAL REQUIRED

\*\* Specialty Items

Rev.

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

LOCATION OF WORK				CONSTRUCTION TYPE CODE			
CODE NO.	ITEM	UNIT	80% FED. 20% STATE TOTAL QUANTITY	ROADWAY 0004	STRUCTURE 0011		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	50	50			
70400100	TEMPORARY CONCRETE BARRIER	FOOT	362.5	362.5			
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	362.5	362.5			
**78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	219	219			
**78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	3,360	3,360			
**78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	11	11			
* **78200420	GUARDRAIL MARKERS, TYPE B	EACH	9	9			
* **78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4			
78300100	PAVEMENT MARKING REMOVAL	SQ FT	2,621	2,621			
* Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	22		22		
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1			
* Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2			
* Z0030330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	2	2			
* Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1			
* **Z0065000	SETTING PILES IN ROCK	EACH	12		12		

\* INDICATES SPECIAL REQUIRED

\*\* Specialty Items

Rev.

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pw\work\p\dot\laughlinr1\0230976\807\SUP\01.SHT	DRAWN -	REVISED -	506			123 B-1	HANCOCK	70	8	
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PLOT DATE = Aug-11-2010 10:31:10AM	DATE -	REVISED -	FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET NO. OF	SHEETS	STA.	TO STA.	



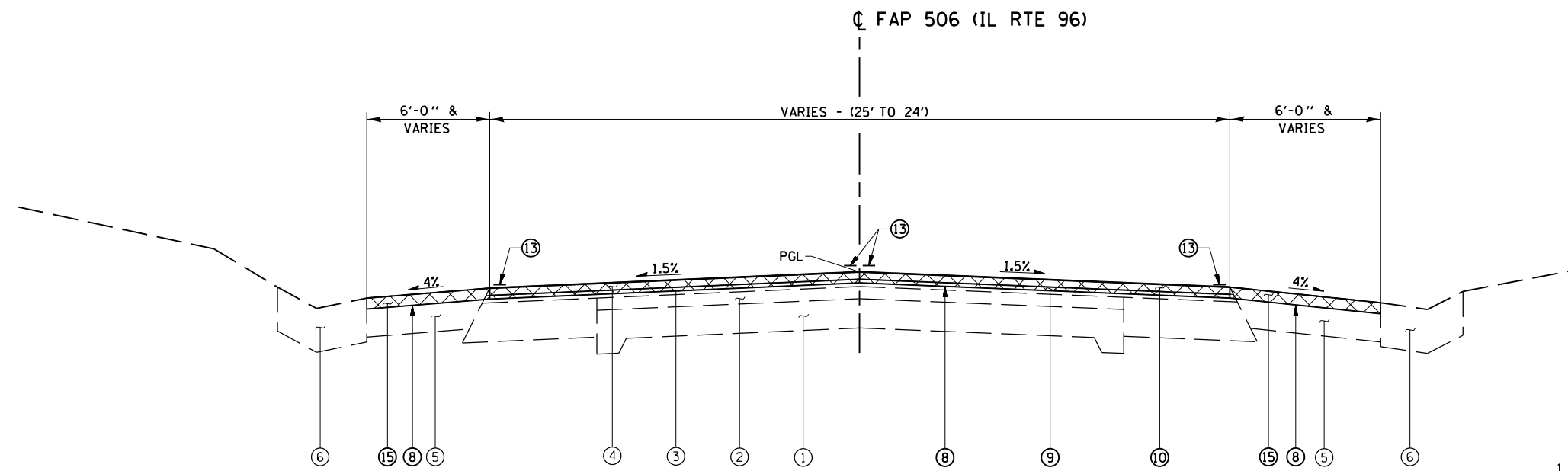
ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

LOCATION OF WORK				CONSTRUCTION TYPE CODE			
CODE NO.	ITEM	UNIT	80% FED. 20% STATE TOTAL QUANTITY	ROADWAY 0004	STRUCTURE 0011		
Z0004552	APPROACH SLAB REMOVAL	SQ YD	165	165			
* Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1,088		1,088		
* X0324028	GROUT FOR USE WITH RIPRAP	CU YD	325	325			
* X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	192		192		
* X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1			

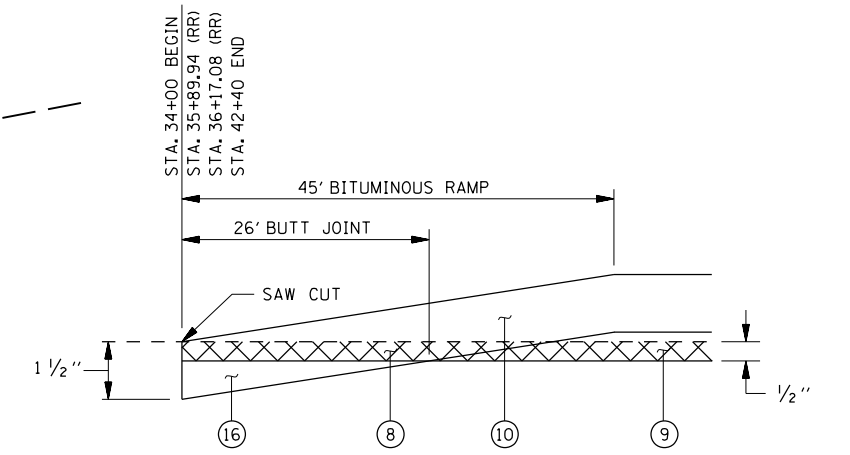
\* INDICATES SPECIAL REQUIRED

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw-work\p\ridot\laughlinr1\d0230976\807	SUM01.SHT	DRAWN -	REVISED -			506	123 B-1	HANCOCK	70	9	
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	PLOT DATE = Aug-11-2010 10:31:11AM	DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
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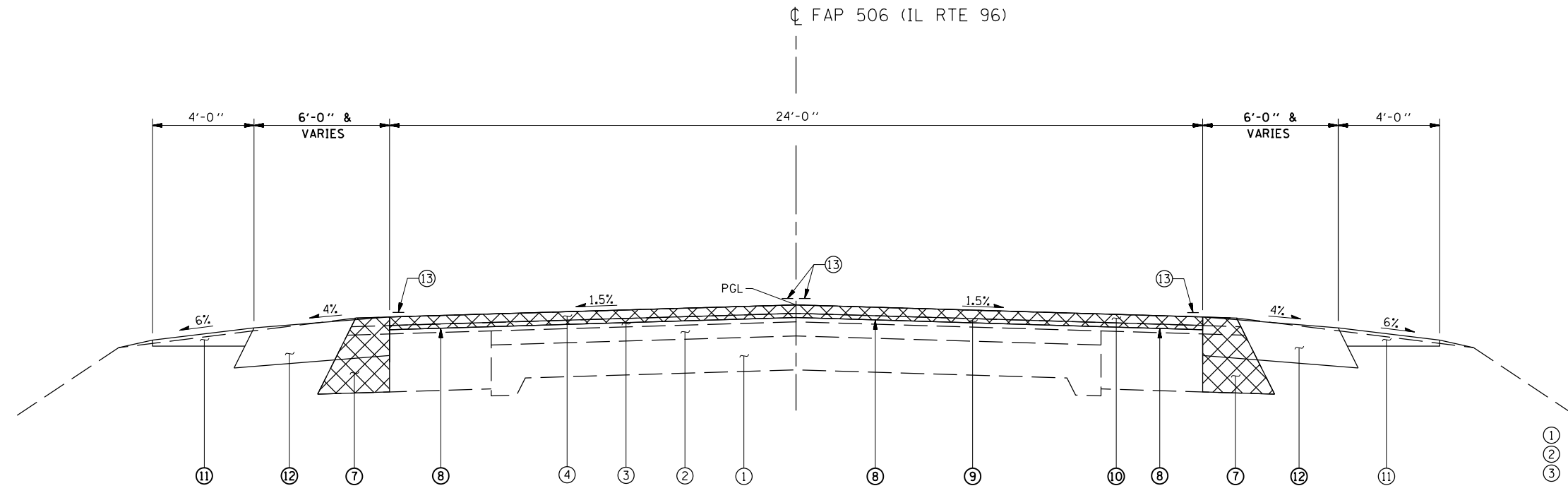
**TYPICAL SECTION**

STA. 34+00.00 TO STA 35+00.00



**BUTT JOINT DETAIL**

**GUARDRAIL PLACEMENT:**  
 STA 36+79.00 RT TO STA 37+74.50 RT  
 STA 36+91.00 LT TO STA 37+74.50 LT  
 STA 38+84.50 RT TO STA 39+80.00 RT  
 STA 38+84.50 LT TO STA 41+92.50 LT



**TYPICAL SECTION**

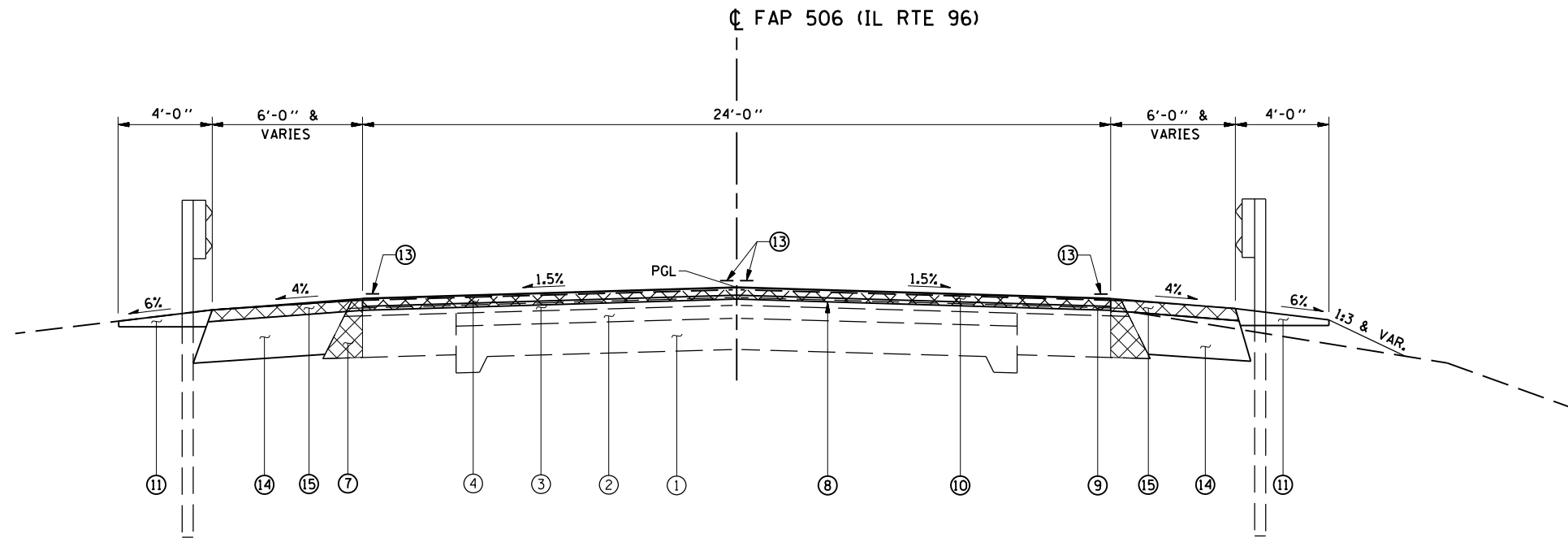
STA. 35+00.00 TO STA. 35+89.94  
 R.R. OMISSION STA. 35+89.94 TO STA. 36+17.08  
 STA. 41+39.00 TO STA. 42+40.00, RT.  
 STA. 41+90.00 TO STA. 42+40.00, LT.

**LEGEND**

- ① EXISTING P.C. CONCRETE PAVEMENT - 9'-6"-9"
- ② EXISTING BITUMINOUS OVERLAY - 2 1/2"
- ③ EXISTING LEVELING BINDER (MACHINE METHOD) MIXTURE 'B', TYPE 2, 1 1/2"
- ④ EXISTING BITUMINOUS CONCRETE SURFACE COURSE, MIXTURE 'D', CLASS A, TYPE 2, 1 1/2"
- ⑤ EXISTING BITUMINOUS SHOULDER - 8"
- ⑥ EXISTING CONCRETE GUTTER - 9"
- ⑦ PROPOSED PAVED SHOULDER REMOVAL
- ⑧ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
- ⑨ PROPOSED LEVELING BINDER (MACHINE METHOD), N50, IL 9.5
- ⑩ PROPOSED HOT-MIX ASPHALT SURFACE COURSE MIX C, N50 (1 1/2")
- ⑪ PROPOSED AGGREGATE SHOULDERS, TYPE B
- ⑫ PROPOSED HOT-MIX ASPHALT SHOULDERS, 8"
- ⑬ PROPOSED PAVEMENT MARKING - LINE 5"
- ⑭ PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING - 10"
- ⑮ PROPOSED HOT-MIX ASPHALT SHOULDERS (2 1/4")
- ⑯ PROPOSED HMA SURFACE REMOVAL - BUTT JOINT

FILE NAME = c:\pwwork\pwwork\laughlin\1\0230976\8077501.SHT	USER NAME = laughlin1	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / in.	DRAWN - AAD	REVISED -					506	123 B-1	HANCOCK	70	10
PLOT DATE = Aug-11-2010 10:37:36AM	CHECKED -	DATE - 10-22-07	REVISED -	SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 72992					
							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

**GUARDRAIL PLACEMENT:**  
 STA 36+79.00 RT TO STA 37+74.50 RT  
 STA 36+91.00 LT TO STA 37+74.50 LT  
 STA 38+84.50 RT TO STA 39+80.00 RT  
 STA 38+84.50 LT TO STA 41+92.50 LT



**TYPICAL SECTION**

STA. 36+17.08 TO STA. 37+42.00, RT.  
 STA. 36+17.08 TO STA. 37+42.00, LT.  
 BRIDGE APPROACH STA. 37+42.00 TO STA. 37+67.00  
 BRIDGE OMISSION STA. 37+67.00 TO STA. 38+67.00  
 BRIDGE APPROACH STA. 38+67.00 TO STA. 37+19.00  
 STA. 39+17.00 TO STA. 41+39.00, RT.  
 STA. 39+17.00 TO STA. 41+90.00, LT.

**LEGEND**

- ① EXISTING P.C. CONCRETE PAVEMENT - 9'-6"-9"
- ② EXISTING BITUMINOUS OVERLAY - 2 1/2"
- ③ EXISTING LEVELING BINDER (MACHINE METHOD) MIXTURE 'B', TYPE 2, 1 1/2"
- ④ EXISTING BITUMINOUS CONCRETE SURFACE COURSE, MIXTURE 'D', CLASS A, TYPE 2, 1 1/2"
- ⑤ EXISTING BITUMINOUS SHOULDER - 8"
- ⑥ EXISTING CONCRETE GUTTER - 9"
- ⑦ PROPOSED PAVED SHOULDER REMOVAL
- ⑧ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
- ⑨ PROPOSED LEVELING BINDER (MACHINE METHOD), N50, IL 9.5
- ⑩ PROPOSED HOT-MIX ASPHALT SURFACE COURSE MIX C, N50 (1 1/2")
- ⑪ PROPOSED AGGREGATE SHOULDERS, TYPE B
- ⑫ PROPOSED HOT-MIX ASPHALT SHOULDERS, 8"
- ⑬ PROPOSED PAVEMENT MARKING - LINE 5"
- ⑭ PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING - 10"
- ⑮ PROPOSED HOT-MIX ASPHALT SHOULDERS (2 1/4")
- ⑯ PROPOSED HMA SURFACE REMOVAL - BUTT JOINT

FILE NAME = c:\pwwork\pwwork\laughlin\1\0230976\8077TS02.SHT	USER NAME = laughlin1	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - AAD	CHECKED -	REVISED -					506	123 B-1	HANCOCK	70	11
PLOT SCALE = 100.0000' / in.	DATE - 10-22-07	REVISI	REVISI		SCALE: NONE	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 72992				
PLOT DATE = Aug-11-2010 10:37:42AM	DATE - 10-22-07	REVISI	REVISI		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

SEEDING SCHEDULE										
STATION	TO	STATION	LT/RT	AREA	25000200 SEEDING, CLASS 2	28000250 TEMPORARY EROSION CONTROL SEEDING	25000400 NITROGEN FERTILIZER NUTRIENT	25000500 PHOSPHORUS FERTILIZER NUTRIENT	25000600 POTASSIUM FERTILIZER NUTRIENT	25100115 MULCH, METHOD 2
				(SQ FT)	(ACRE)	(POUND)	(POUND)	(POUND)	(POUND)	(ACRE)
34+80		35+80	RT	783	0.02	16	1.8	1.8	1.8	0.02
36+06		36+28	RT	571	0.02	16	1.8	1.8	1.8	0.02
36+52		37+29	RT	1,749	0.05	40	4.5	4.5	4.5	0.05
39+00		39+80	RT	443	0.02	16	1.8	1.8	1.8	0.02
39+80		41+50	RT	1,650	0.04	32	3.6	3.6	3.6	0.04
41+70		42+40	RT	747	0.02	16	1.8	1.8	1.8	0.02
36+76		37+30	LT	582	0.02	16	1.8	1.8	1.8	0.02
37+56		38+05	LT	1,075	0.03	24	2.7	2.7	2.7	0.03
39+00		40+00	LT	2,124	0.05	40	4.5	4.5	4.5	0.05
40+00		42+40	LT	3,425	0.08	64	7.2	7.2	7.2	0.08
TOTALS					0.35	280	31.5	31.5	31.5	0.35
USE					0.4	300	36	36	36	0.4

EARTH EXCAVATION SCHEDULE										
STATION	TO	STATION	AVG SQ FT [CUT]	AVG SQ FT [FILL]	DISTANCE	20200100 EARTH EXCAVATION [CUT]	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	CHANNEL EXCAVATION ADJUSTED FOR SHRINKAGE (50%)	EMBANKMENT [FILL]	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
					(FEET)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
STAGE 1										
34+00		35+00	1	0.5	100	4	3		2	1
35+00		35+89.94	1	0.5	89.94	4	3		2	1
RAILROAD OMISSION										
36+17.08		37+00	3	9	82.92	10	7.5		28	-20.5
37+00		37+72	19.5	78.5	72	52	39		210	-171
BRIDGE OMISSION (CHANNEL)										
38+87		39+00	71	1	13	35	26.25	818.5	1	25.25
39+00		40+00	18	2	100	67	50.25		8	42.25
40+00		41+00	1.5	3.5	100	6	4.5		13	-8.5
41+00		42+00	0.5	2	100	2	1.5		8	-6.5
STAGE 2										
34+00		35+00	0	0	100	0	0		0	0
35+00		35+89.94	0	0	89.94	0	0		0	0
RAILROAD OMISSION										
36+17.08		37+00	4	0	82.92	13	9.75		0	9.75
37+00		37+72	69	1	72	184	138		3	135
BRIDGE OMISSION										
38+87		39+00	33	62	13	16	12		30	-18
39+00		40+00	18	21.5	100	67	50.25		80	-29.75
40+00		41+00	2.5	5.5	100	10	7.5		21	-13.5
41+00		42+00	1	6	100	4	3		23	-20
TOTALS						474	355.5	818.5	429	745
USE						474	355.5	818.5	429	745

PAVEMENT REMOVAL				
STATION	TO	STATION	44000100 PAVEMENT REMOVAL	Z004552 APPROACH SLAB REMOVAL
			(SQ YD)	(SQ YD)
37+36.00		37+71.00	97	
38+61.00		39+23.00	168	
37+71.00		37+91.00		73
38+36.00		38+61.00		92
TOTALS			265	165

INLET & PIPE PROTECTION		
STATION	LT/RT	28000500 INLET AND PIPE PROTECTION
		(SQ YD)
35+11	LT	1
35+98	LT	1
37+32	LT	1
41+87	RT	1
TOTALS		4

SHOULDER REMOVAL SCHEDULE						
STATION	TO	STATION	LT/RT	AVERAGE WIDTH	44004250 PAVED SHOULDER REMOVAL	
				(FEET)	(SQ YD)	
35+92		35+96	LT	4.2	2	
36+23		36+47	LT	1.8	5	
37+09		37+76	LT	4.0	30	
38+61		42+40	LT	4.1	173	
34+79		35+83	RT	1.5	18	
36+74		37+76	RT	3.8	44	
38+61		41+43	RT	43.3	135	
41+82		42+40	RT	5.2	34	
TOTALS					441	

TEMPORARY CONCRETE BARRIER SCHEDULE								
STATION	LT/RT	TO	STATION	LT/RT	70400100 TEMPORARY CONCRETE BARRIER	70400200 RELOCATE TEMPORARY CONCRETE BARRIER	Z0030260 IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE)	Z0030350 RELOCATE IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE)
					(FOOT)	(FOOT)	(L SUM)	(L SUM)
36+70.00	4' RT		37+30.00	-3' LT	61			
37+30.00	-3' LT		39+50.00	-3' LT	220			
39+50.00	-3' LT		40+30.00	7' RT	81			
36+70.00	-2.5' LT		37+30.00	5' RT		61		
37+30.00	5' RT		39+50.00	5' RT		220		
39+50.00	5' RT		40+30.00	-5' LT		81		
36+70.00	4' RT						1	
36+70.00	-2.5' LT						1	
40+30.00	7' RT							1
40+30.00	-5' LT							1
TOTALS					362	362	2	2
USE					362.5	362.5	2	2

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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	123 B-1	HANCOCK	70	12
CONTRACT NO. 72992				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PAVING SCHEDULE														
STATION	TO	STATION	RT/LT	PAVEMENT WIDTH	DISTANCE	AREA	40201000 AGGREGATE FOR TEMPORARY ACCESS	40600200 BITUMINOUS MATERIALS (PRIME COAT)	40600300 AGGREGATE (PRIME COAT)	40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	40800050 INCIDENTAL HOT-MIX ASPHALT SURFACING	42001430 BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	44000198 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	44000200 DRIVEWAY PAVEMENT REMOVAL
				(FEET)	(FEET)	(SQ YD)	(TON)	(TON)	(TON)	(TON)	(TON)	(SQ YD)	(SQ YD)	(SQ YD)
IL 96 HANCOCK COUNTY														
34+00		34+50		24.6	50.0	137		0.2	0.3	12			137	
34+50		35+89.94		24	139.9	373		0.3	0.8	32			374	
36+17.08		37+36		24	118.9	317		0.3	0.7	27			318	
37+36		37+42		24	6.0							16		
39+17		39+23		24	6.0							16		
39+23		41+90		24	267.0	712		0.6	1.5	60			712	
41+90		42+40		24.9	50.0	138		0.2	0.3	12			139	
ENTRANCES														
35+50			LT			940.6	36	0.20			47			
36+40			RT			88.1	31	0.20			40			60
36+64			LT			60.1	21	0.20			27			41
41+62			RT			106.3	37	0.20			21			26
TOTALS							125	2.4	3.6	143.0	135	32.0	1,680.0	127.0
USE							125	3	4	143	135	32	1,680	127

RIPRAP SCHEDULE						
STATION	TO	STATION	LT/RT	AREA	28100707 STONE DUMPED RIPRAP, CLASS A4	28200200 FILTER FABRIC
				(SQ FT)	(SQ YD)	(SQ YD)
37+00		38+12	LT	3458.2	384.3	384.3
37+74.50		37+95	AR	799.7	88.9	88.9
37+00		37+93	RT	2961.5	329.1	329.1
38+32		39+25	LT	2626.4	291.9	291.9
39+15		40+00	LT	2481.2	275.7	275.7
38+32		38+84.50	AR	2048.5	227.7	227.7
38+32		39+00	RT	3014.6	335.0	335.0
TOTALS					1,932.6	1,932.6
USE					1,933	1,933

DRAINAGE SCHEDULE										
STATION	LT/RT	OFFSET	20800150 TRENCH BACKFILL	44200132 PAVEMENT PATCHING, TYPE II, 11 INCH (SQ YD)	50105220 PIPE CULVERT REMOVAL (FOOT)	542A5479 PIPE CULVERTS T1, RC-E, ERS 24" (FOOT)	54214509 PRC FLARED END SECTIONS, ERS 24" (EACH)	54215547 METAL END SECTIONS 12" (EACH)	60105000 PIPE DRAINS, CS/A ALLOY (FOOT)	60900215 TYPE C INLET BOX, STANDARD 609001 (EACH)
		(FOOT)	(CU YD)	(SQ YD)	(FOOT)	(FOOT)	(EACH)	(EACH)	(FOOT)	(EACH)
35+72.97	RT	22.00								
35+82.45										
35+91.61	LT	22.00								
37+32	LT								12	1
37+32	RT								12	1
37+32	LT	24.00						1		
37+32	RT	24.00						1		
35+82.45			5	18	50	48				
35+91.61	LT	21.75					1			
35+72.97	RT	22.48					1			
TOTALS			5	18	50	48	2	2	24	2

ESTIMATED QUANTITIES	
PAY ITEM	QUANTITY
TREE REMOVAL	1 ACRE
AGGREGATE (EROSION CONTROL)	100 TON
PERIMETER EROSION BARRIER	500 FOOT
GROUT FOR USE WITH RIPRAP	325 CU YD
GRATING AND SHAPING DITCHES	200 FOOT
EARTH EXCAVATION FOR EROSION CONTROL	50 CU YD
ROCK EXCAVATION	100 CU YD

LEVELING BINDER SCHEDULE						
STATION	TO	STATION	AVERAGE END AREA	DISTANCE	VOLUME	40600625 LEVELING BINDER (MACHINE METHOD), N50
			(SQ FT)	(FEET)	(CU FT)	(TON)
34+00		35+00	1.5	100.0	150.0	11.2
35+00		35+89.94	1.5	89.9	134.9	10.1
RAILROAD OMISSION						
36+17.08		37+00	1.5	82.9	124.4	9.3
37+00		37+36	1.5	36.0	54.4	4.1
BRIDGE OMISSION						
39+23		40+00	5.5	77.0	423.5	31.7
40+00		41+00	3.25	100.0	325.0	24.3
41+00		42+00	1.5	100.0	150.0	11.2
42+00		42+40	1.5	40.0	60.0	4.5
TOTALS						106.4
USE						107

BUTT JOINT / RAMP SCHEDULE						
STATION	TO	STATION	PAVEMENT WIDTH	DISTANCE	40600982 HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT	40600990 TEMPORARY RAMP
			(FEET)	(FEET)	(SQ YD)	(SQ YD)
34+00		34+26	25	5	73	14
35+63.94		35+89.94	24	5	70	14
RAILROAD OMISSION						
36+17.08		36+43.08	24	5	70	14
BRIDGE OMISSION						
42+14		42+40	25.4	5	74	15
TOTALS					287	57

AGGREGATE SHOULDER SCHEDULE						
STATION	TO	STATION	LT/RT	WIDTH	THICKNESS	48101200 AGGREGATE SHOULDERS, TYPE B
				(FEET)	(FEET)	(TON)
35+00		35+17	LT	4	0.5	3
35+84		35+99	LT	4	0.5	3
36+24		36+43	LT	4	0.5	3
36+85		37+72	LT	4	0.5	14
38+87		42+40	LT	4	0.5	54
34+77		35+82	RT	4	0.5	16
36+09		36+19	RT	4	0.5	2
36+64		37+72	RT	4	0.5	17
38+87		41+42	RT	4	0.5	39
41+82		42+40	RT	4	0.5	9
TOTALS						160

HMA SHOULDER SCHEDULE							
STATION	TO	STATION	LT/RT	BITUMINOUS SHOULDER WIDTH	35600716 HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	48203100 HOT-MIX ASPHALT SHOULDERS	48203029 HOT-MIX ASPHALT SHOULDERS, 8"
				(FEET)	(SQ YD)	(TON)	(SQ YD)
34+00		35+00	LT	5.6		7.9	
35+00		35+96	LT	6.0			64.0
34+00		34+78	RT	5.7		6.3	
34+78		35+84	RT	6.0			70.7
RAIL ROAD OMISSION							
36+24		37+27	LT	6.0		8.7	
36+24		37+76	LT	6.0	102		
36+10		37+27	RT	6.0		9.9	
36+10		37+76	RT	6.0	111		
BRIDGE OMISSION							
38+61		41+90	LT	6.0	220		
39+17		41+90	LT	6.0		23.0	
41+90		42+40	LT	5.0			27.8
38+61		41+40	RT	6.0	186		
39+17		41+40	RT	6.0		18.8	
41+86		42+40	RT	4.4			26.4
TOTALS					619	74.6	188.9
USE					619	75	189

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

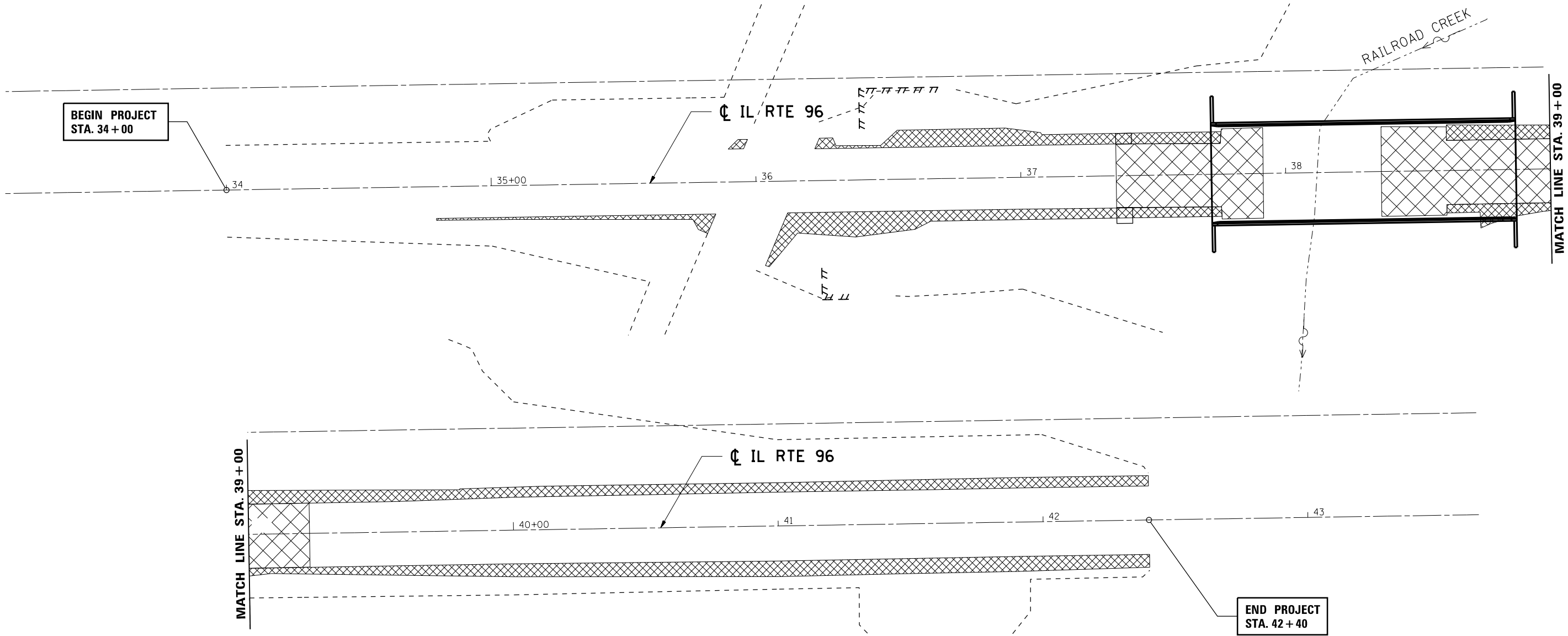
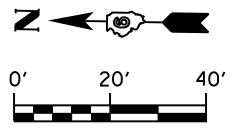
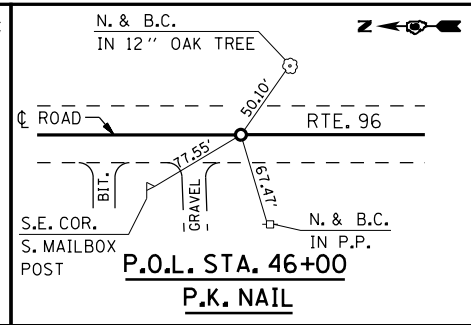
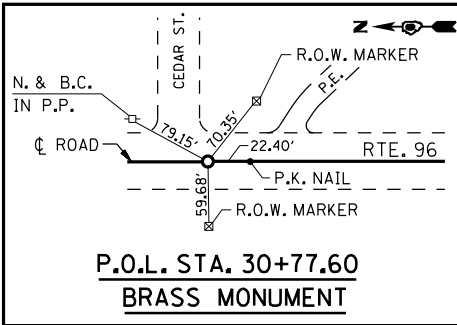
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	123 B-1	HANCOCK	70	14
CONTRACT NO. 72992				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

STRIPING SCHEDULE										
LOCATION			LT/RT	70300100	70300230	70301000	78001100	78001120	78100100	78300105
STA	TO	STA		SHORT TERM PAVEMENT MARKING	TEMPORARY PAVEMENT MARKING- LINE 5''	WORK ZONE PAVEMENT MARKING REMOVAL	PAINT PAVEMENT MARKING - LETTERS & SYMBOLS	PAINT PAVEMENT MARKING - LINE 5''	RAISED REFLECTIVE PAVEMENT MARKERS	PAVEMENT MARKING REMOVAL
				(SQ FT)	(FOOT)	(SQ FT)	(SQ FT)	(FOOT)	(EACH)	(FOOT)
34+00.00		42+40.00		153	1680	50		1680	11	
34+00.00		42+40.00	LT		840			840		
34+00.00		42+40.00	RT		840			840		
32+36.50			RT				109.2			
39+68.50			LT/RT				109.2			
STAGE 1										
34+00.00		42+40.00	RT							1,522
STAGE 2										
34+00.00		42+40.00	RT							1,099
SUB-TOTALS				153.0	3360.0		218.4	3360.0		
TOTALS				153	3,360	50	219	3,360	11	2,621

GUARDRAIL SCHEDULE										
LOCATION			LT/RT	63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS (FOOT)	TRAFFIC BARRIER TERMINAL			63200310 GUARDRAIL REMOVAL (FOOT)	78200420 GUARDRAIL MARKER TYPE B (EACH)	78201000 TERMINAL MARKER - DIRECT APPLIED (EACH)
STATION	TO	STATION			63100167 TYPE 1, SPECIAL (TANGENT) (EACH)	63100085 TYPE 6 (EACH)	63100215 TYPE 6 (SPECIAL) (EACH)			
IL 96										
36+91.00		37+41.00	LT		1					1
37+41.00		37+74.50	LT			1		1		
36+79.00		37+29.00	RT		1					1
37+29.00		37+74.50	RT			1		1		
38+84.50		39+30.00	LT			1		1		
39+30.00		41+42.50	LT	212.5				3		
41+42.50		41+92.50	LT		1					1
38+84.50		39+30.00	RT			1		1		
39+30.00		40+80.00	RT	150				2		
40+80.00		41+30.00	RT		1					1
							63			
37+08.00		37+71.00	LT				101			
36+70.00		37+71.00	RT				160			
38+67.00		40+27.00	LT				97			
38+67.00		39+64.00	RT							
TOTALS				362.5	4	3	1	421	9	4

RIGHT-OF-WAY SCHEDULE			
STATION	OFFSET	LT/RT	66600105 FURNISHING AND ERECTING RIGHT OF WAY MARKERS (EACH)
37+00.00	45.00	RT	1
37+75.65	90.00	RT	1
37+90.00	44.20	LT	1
38+13.82	102.88	LT	1
38+50.00	90.00	RT	1
38+50.00	120.00	LT	1
39+00.00	70.00	RT	1
39+25.00	120.00	LT	1
40+50.00	45.00	LT	1
TOTALS			9



B.M. # 133  
CHISELED 'D' SOUTH END WEST  
HEADWALL CULVERT NORTH  
OF RAILROAD CROSSING,  
STA. 35+75, 17.7' RT. ELEV. 559.68

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	PLOT DATE = Aug-11-2010 10:37:55AM	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES & BENCHMARKS**

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

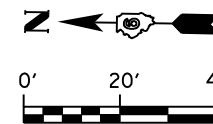
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	123 B-1	HANCOCK	70	16
CONTRACT NO. 72992				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**NOTE:**

THE CONTRACTOR SHALL STAKE OUT THE CONSTRUCTION LIMITS PRIOR TO ANY TREE REMOVAL. THE ENGINEER WILL THEN IDENTIFY ANY TREES TO BE SAVED. NO TREES SHALL BE REMOVED UNTIL THE ENGINEER HAS IDENTIFIED ALL TREES TO BE SAVED.

NE 1/4 SECTION 32, T 5 N, R 8 W, 4TH PM



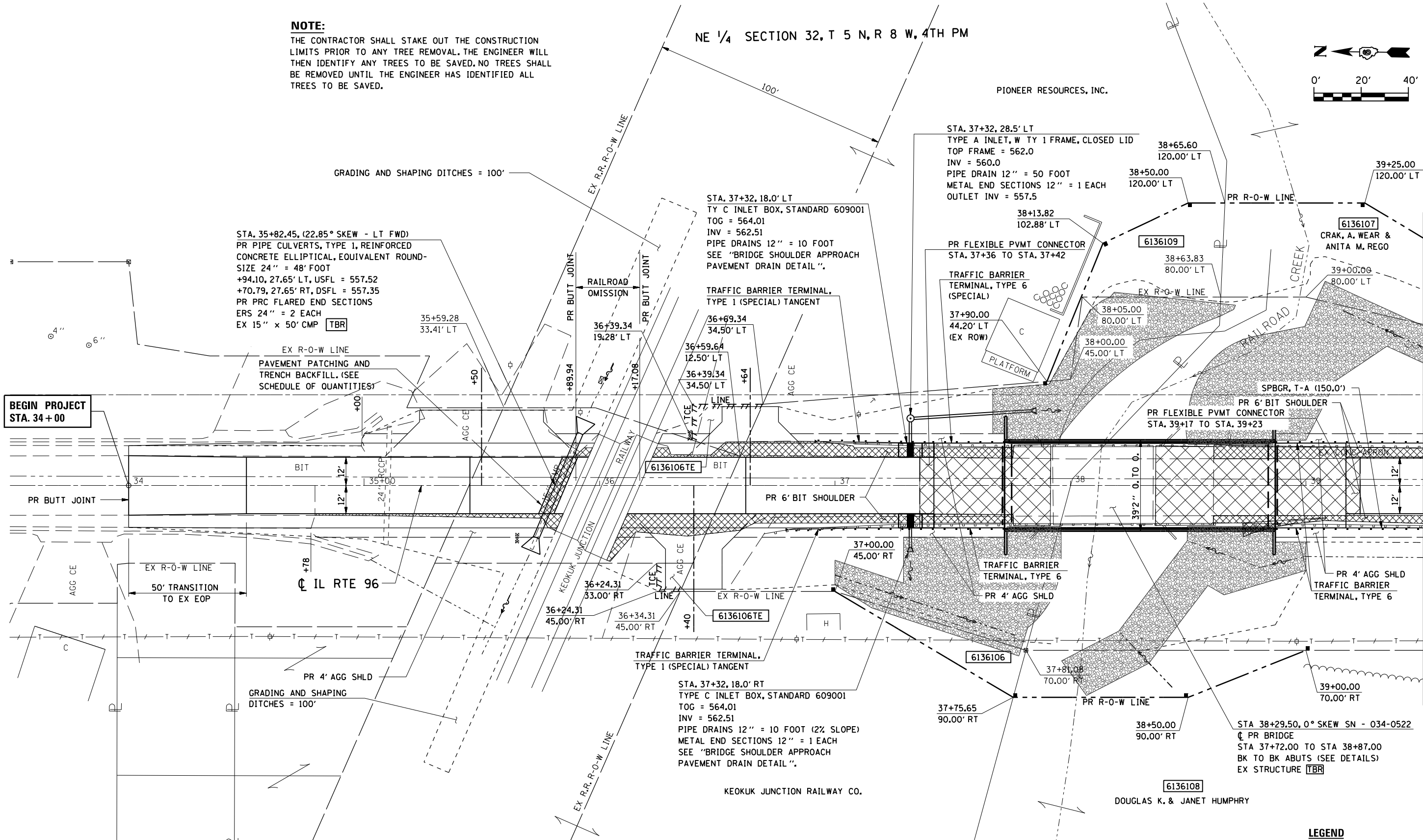
PIONEER RESOURCES, INC.

STA. 35+82.45, (22.85° SKEW - LT FWD)  
 PR PIPE CULVERTS, TYPE 1, REINFORCED  
 CONCRETE ELLIPTICAL, EQUIVALENT ROUND-  
 SIZE 24" = 48' FOOT  
 +94.10, 27.65' LT, USFL = 557.52  
 +70.79, 27.65' RT, DSFL = 557.35  
 PR PRC FLARED END SECTIONS  
 ERS 24" = 2 EACH  
 EX 15" x 50' CMP **TBR**

PAVEMENT PATCHING AND  
 TRENCH BACKFILL. (SEE  
 SCHEDULE OF QUANTITIES)

BEGIN PROJECT  
 STA. 34 + 00

MATCH LINE STA. 39 + 50



NW 1/4 SECTION 32, T 5 N, R 8 W, 4TH PM

**LEGEND**

- PAVEMENT / APPROACH REMOVAL
- SHOULDER REMOVAL

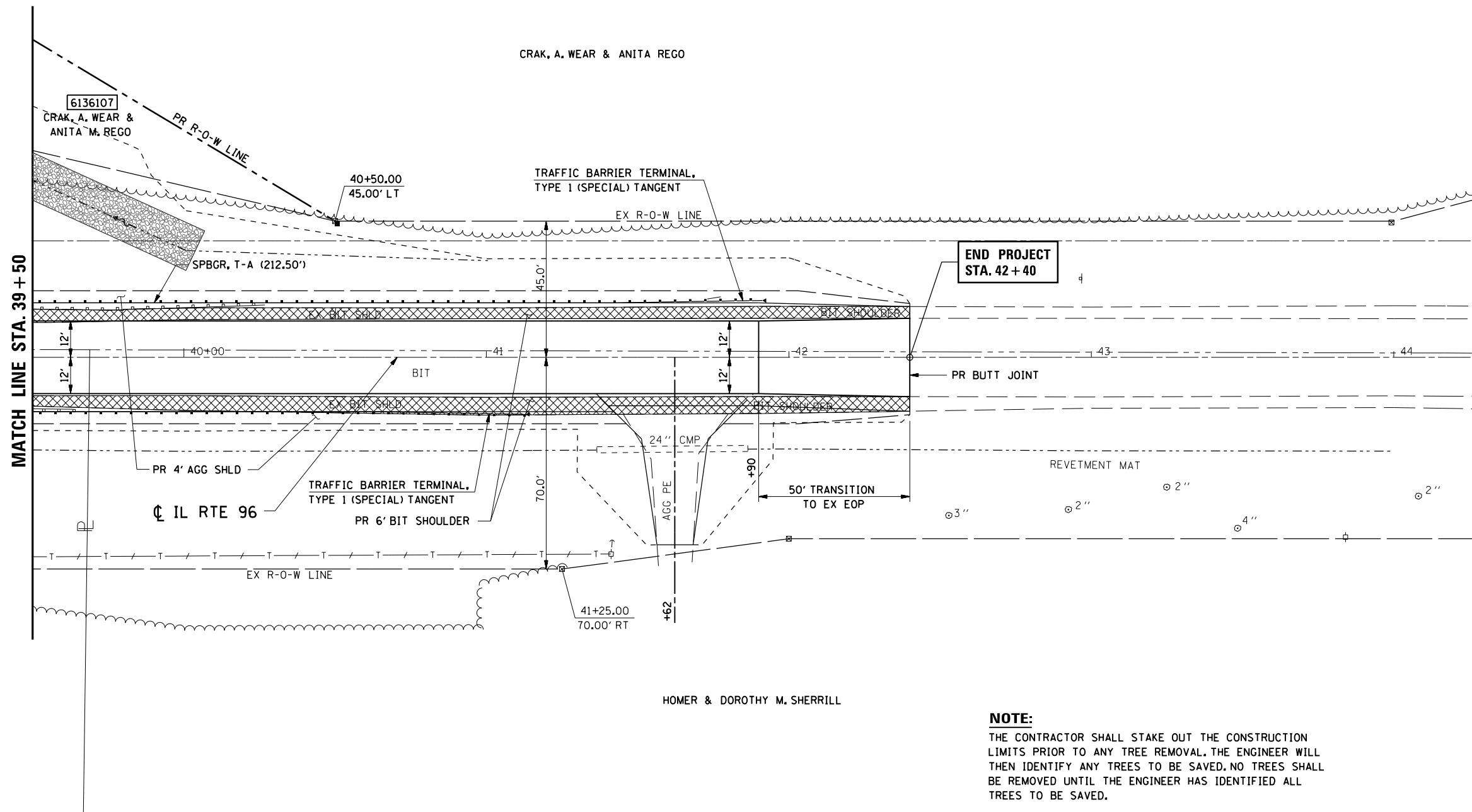
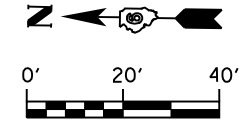
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAN SHEET

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. 33+50 TO STA. 39+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	123 B-1	HANCOCK	70	17
CONTRACT NO. 72992				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

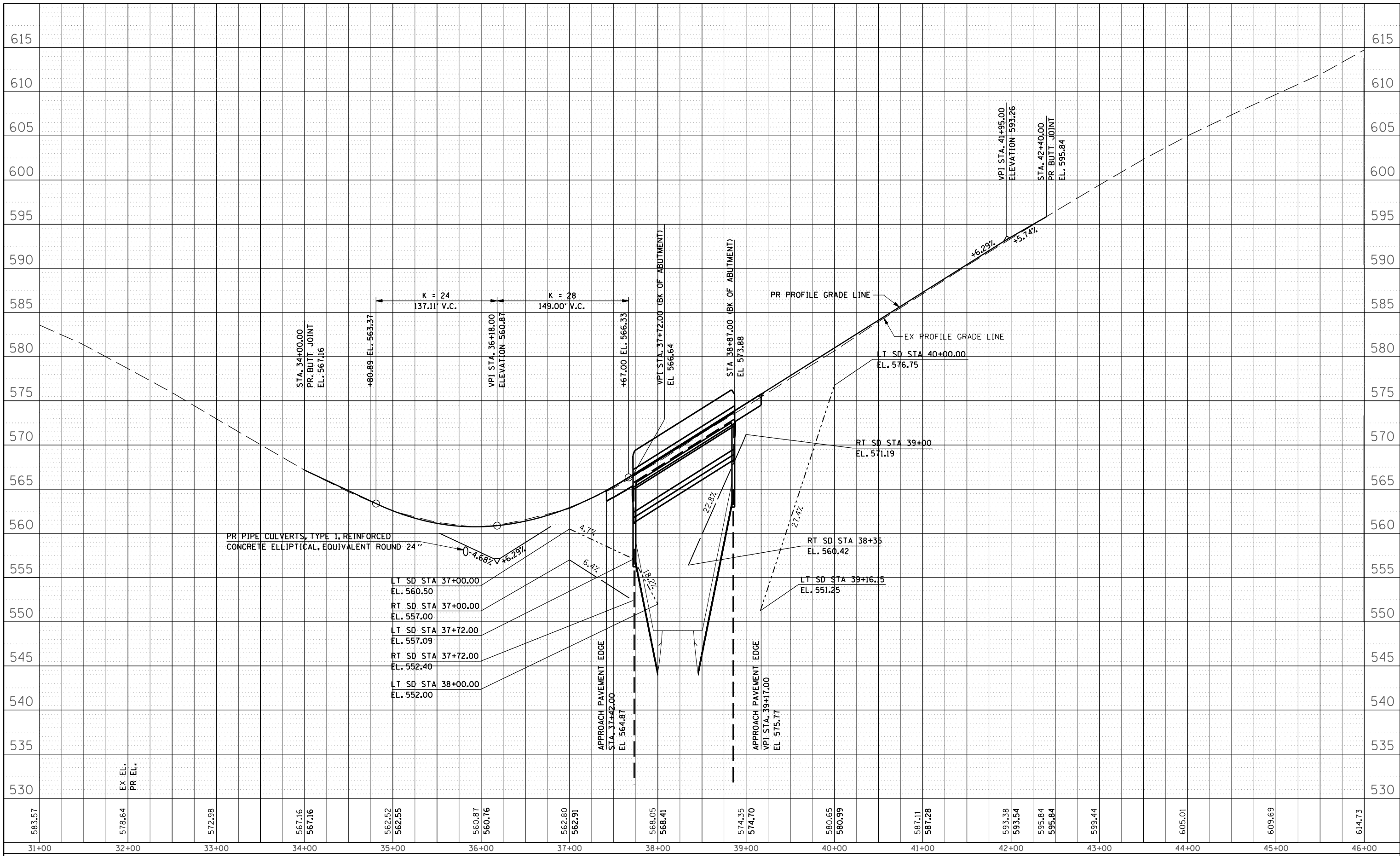


**NOTE:**  
 THE CONTRACTOR SHALL STAKE OUT THE CONSTRUCTION LIMITS PRIOR TO ANY TREE REMOVAL. THE ENGINEER WILL THEN IDENTIFY ANY TREES TO BE SAVED. NO TREES SHALL BE REMOVED UNTIL THE ENGINEER HAS IDENTIFIED ALL TREES TO BE SAVED.

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

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NO.		



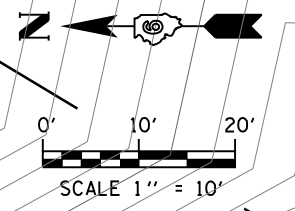
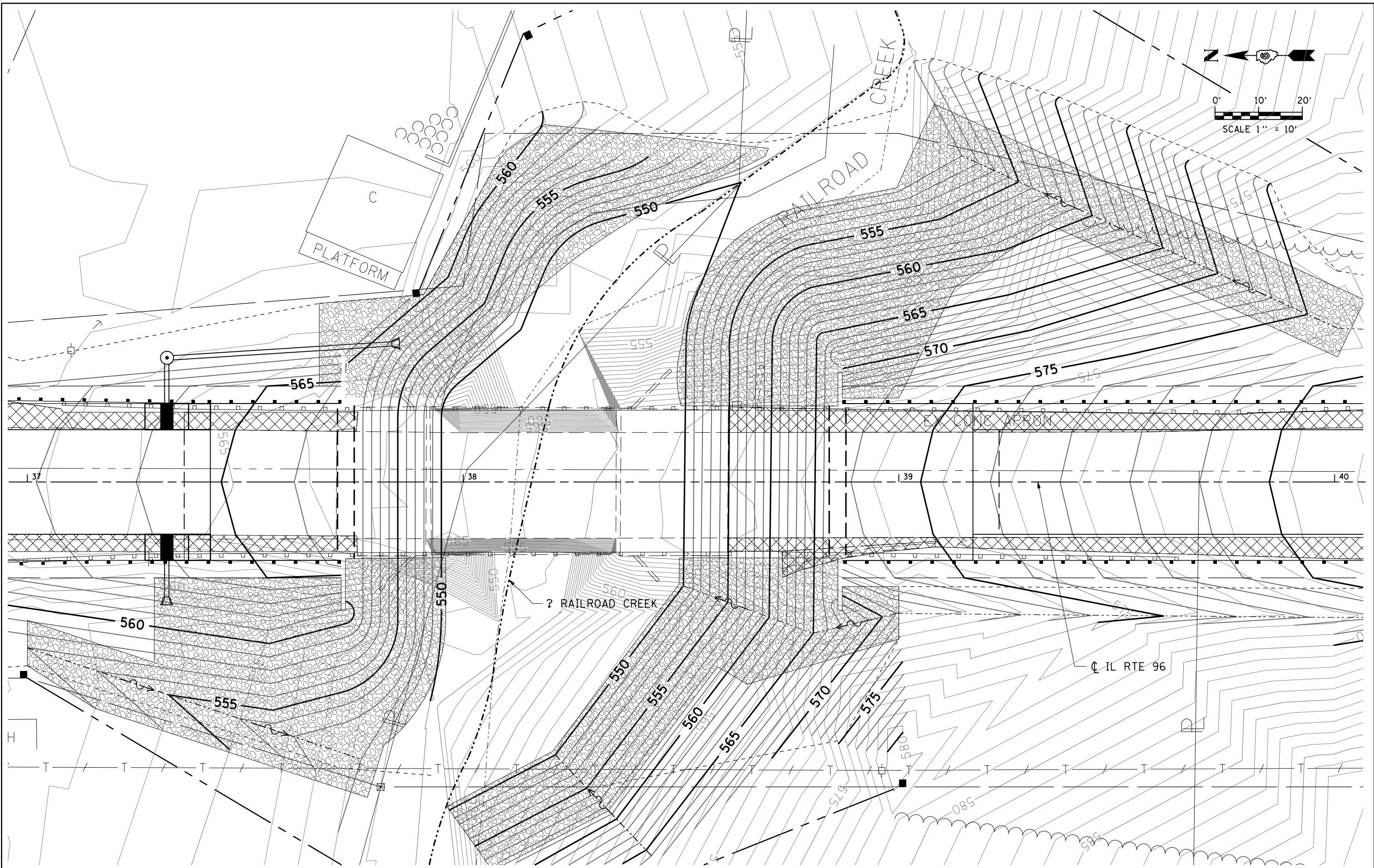
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROFILE SHEET**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. 31+00 TO STA. 46+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 72992				
FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT				



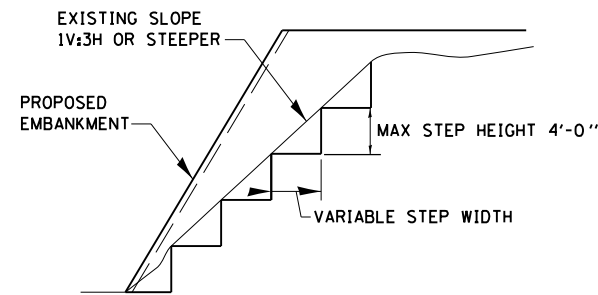
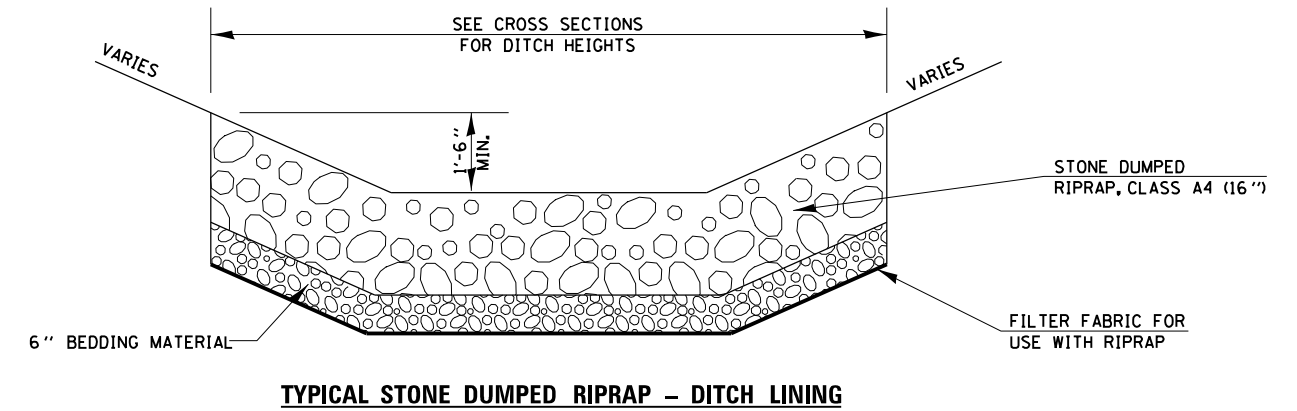
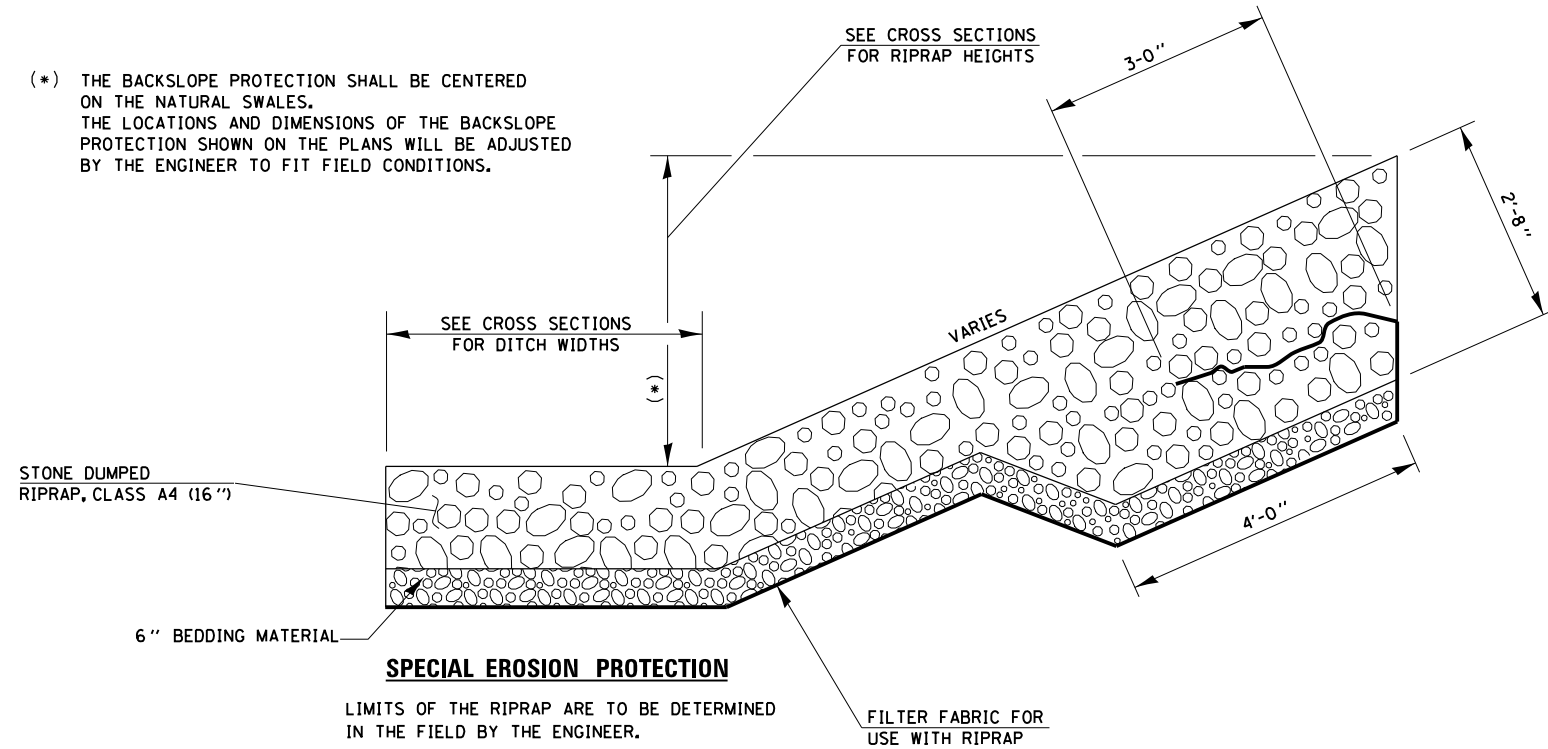
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>GRADING PLAN</b>			
SCALE: 1" = 20'	SHEET NO. OF	SHEETS	STA. 35+50 TO STA. 41+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	123 B-1	HANCOCK	70	20
CONTRACT NO. 72992				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

(\*) THE BACKSLOPE PROTECTION SHALL BE CENTERED ON THE NATURAL SWALES. THE LOCATIONS AND DIMENSIONS OF THE BACKSLOPE PROTECTION SHOWN ON THE PLANS WILL BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

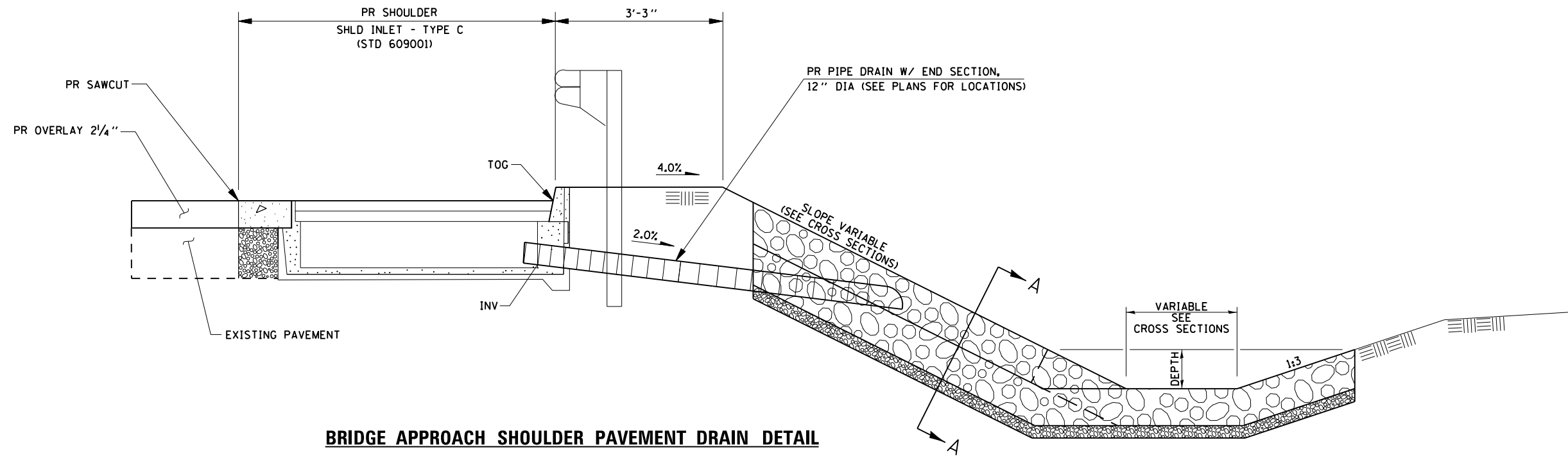


EXISTING 1 1/2H OR STEEPER SLOPES SHALL BE STEPPED PRIOR TO PLACING NEW EMBANKMENT.

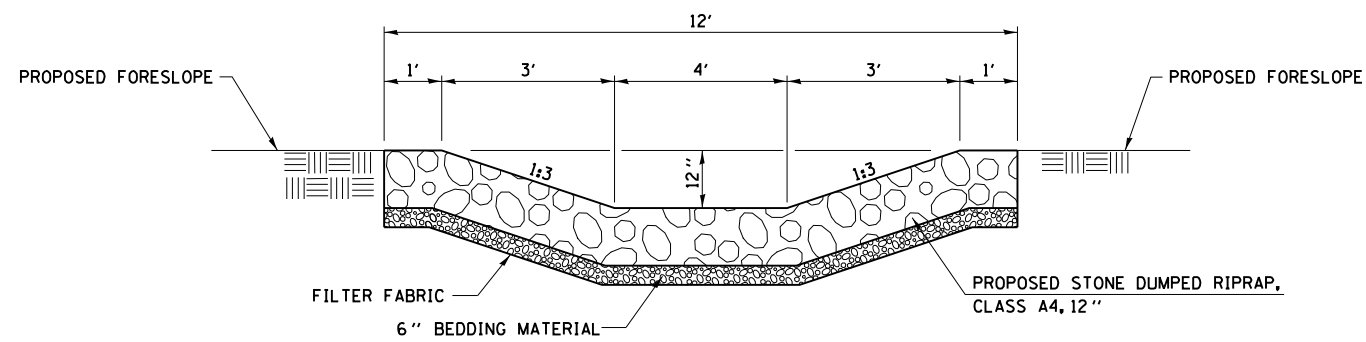
**TYPICAL FILLSLOPE STEPPING DETAIL**

NOTE: THIS EXCAVATION REQUIRED FOR BENCHING THE PROPOSED EMBANKMENT INTO THE EXISTING SLOPE WILL NOT BE MEASURED FOR PAYMENT BUT SHALL BE CONSIDERED AS A REQUIREMENT AND THE COST INCLUDED IN THE CONTRACT UNIT BID PRICE PER CUBIC YARD FOR "EARTH EXCAVATION" OF THE MATERIAL MEASURED FOR PAYMENT IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.

FILE NAME =	USER NAME = laughl1n1	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION PROTECTION DETAILS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = Aug-11-2010 10:38:27AM		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				



**BRIDGE APPROACH SHOULDER PAVEMENT DRAIN DETAIL**



**SECTION A-A**

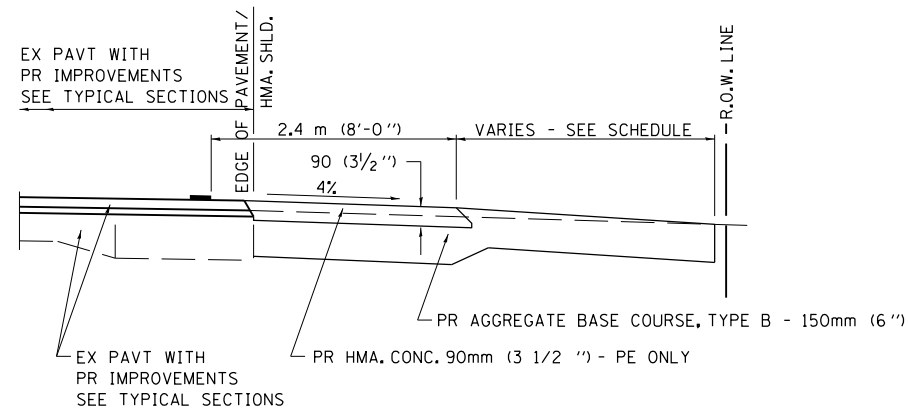
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

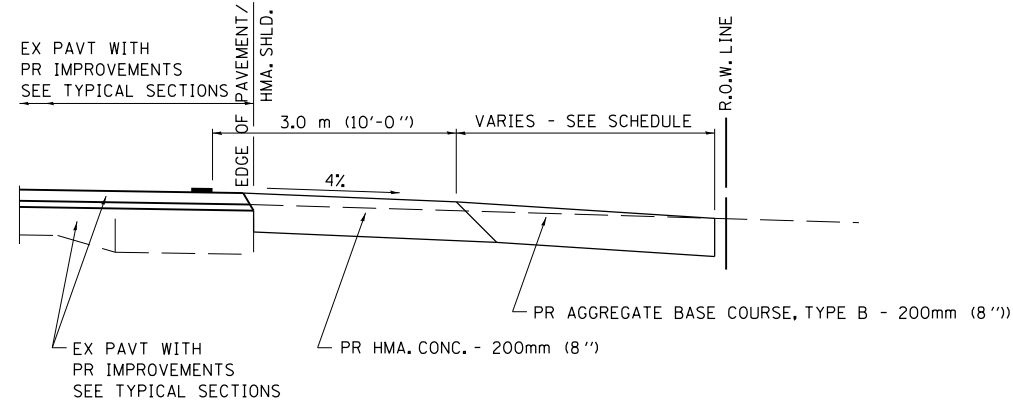
**BRIDGE APPROACH SHOULDER PAVEMENT DRAIN DETAIL**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

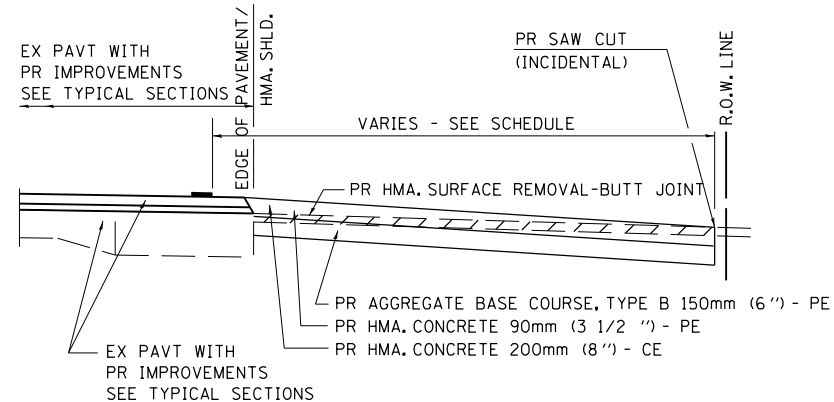
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CONTRACT NO. 72992				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



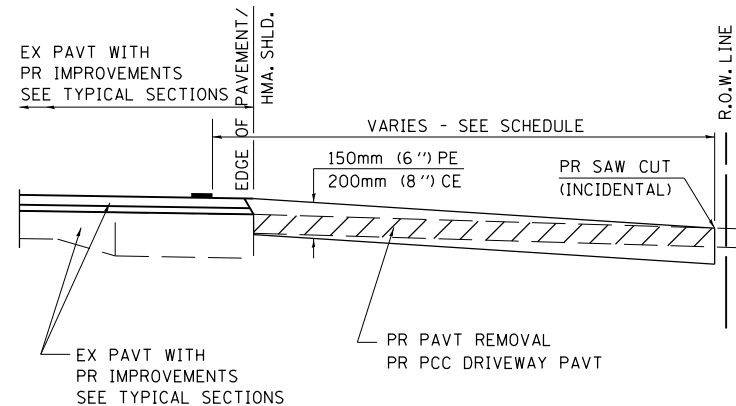
**SECTION A-A FOR EX EARTH/AGGREGATE FE & PE**



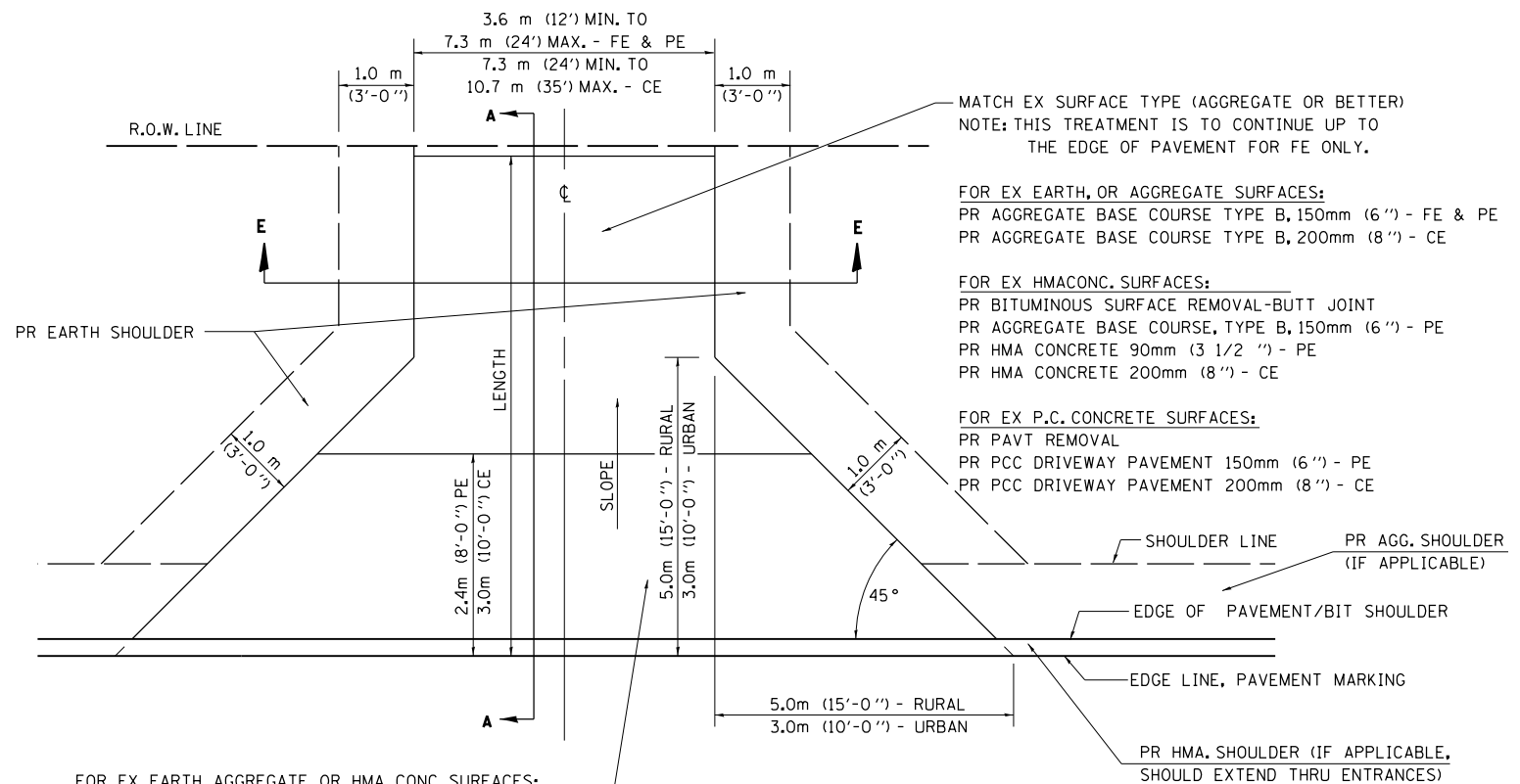
**SECTION A-A FOR EX EARTH/AGGREGATE CE**



**SECTION A-A FOR EX HMA PE & CE**



**SECTION A-A FOR EX P.C. CONC. PE & CE**



FOR EX EARTH, AGGREGATE, OR HMA CONC SURFACES:  
 PR HMA SURFACE REMOVAL-BUTT JOINT (IF APPLICABLE)  
 PR AGGREGATE BASE COURSE TYPE B 150mm (6") - FE  
 PR AGGREGATE BASE COURSE TYPE B, 150mm (6") &  
 PR HMA CONCRETE 90mm (3 1/2") - PE  
 PR HMA CONCRETE 200mm (8") - CE

FOR P.C. CONCRETE SURFACES:  
 PR PAVT REMOVAL  
 PR PCC DRIVEWAY PAVT 150mm (6") - PE  
 PR PCC DRIVEWAY PAVT 200mm (8") - CE

**GENERAL NOTES:**

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES, SIDEROADS AND MAILBOX TURNOUTS ON THIS PROJECT.

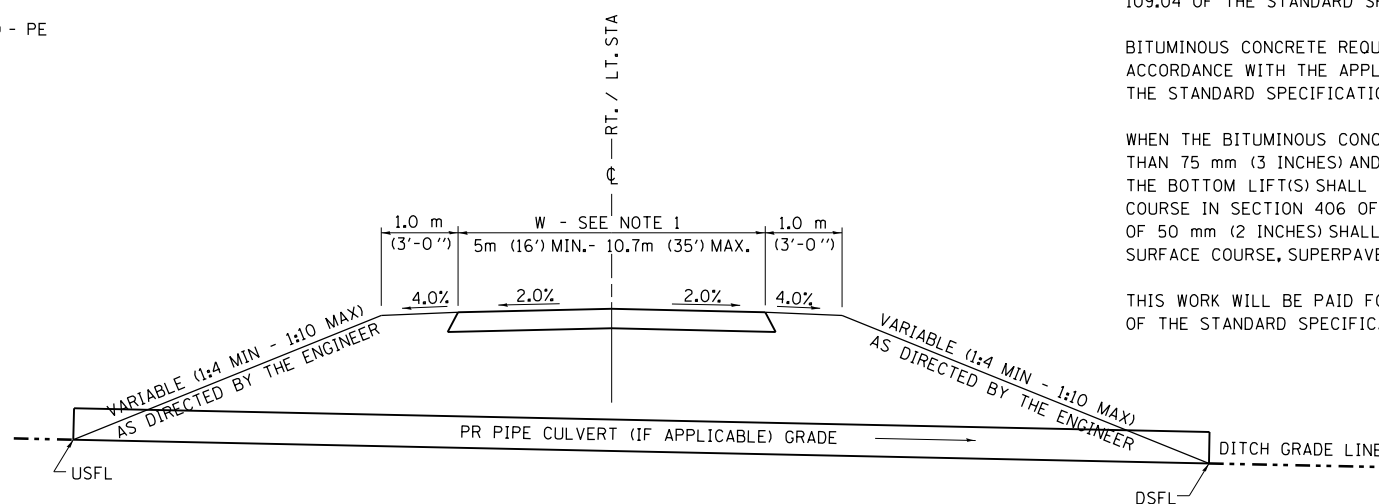
THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

BITUMINOUS CONCRETE REQUIRED TO CONSTRUCT THE ENTRANCES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 406 AND 408 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

WHEN THE BITUMINOUS CONCRETE PROPOSED FOR THE IMPROVEMENT IS THICKER THAN 75 mm (3 INCHES) AND REQUIRE PLACEMENT IN MORE THAN ONE LIFT. THE BOTTOM LIFT(S) SHALL MEET THE REQUIREMENTS OF BITUMINOUS BASE COURSE IN SECTION 406 OF THE STANDARD SPECIFICATIONS AND THE TOP LIFT OF 50 mm (2 INCHES) SHALL MEET THE REQUIREMENTS OF BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE.

THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH SECTIONS 351, 358, 408, 423 AND 440 OF THE STANDARD SPECIFICATIONS.



**SECTION E - E ENTRANCE TYPICAL SECTION**

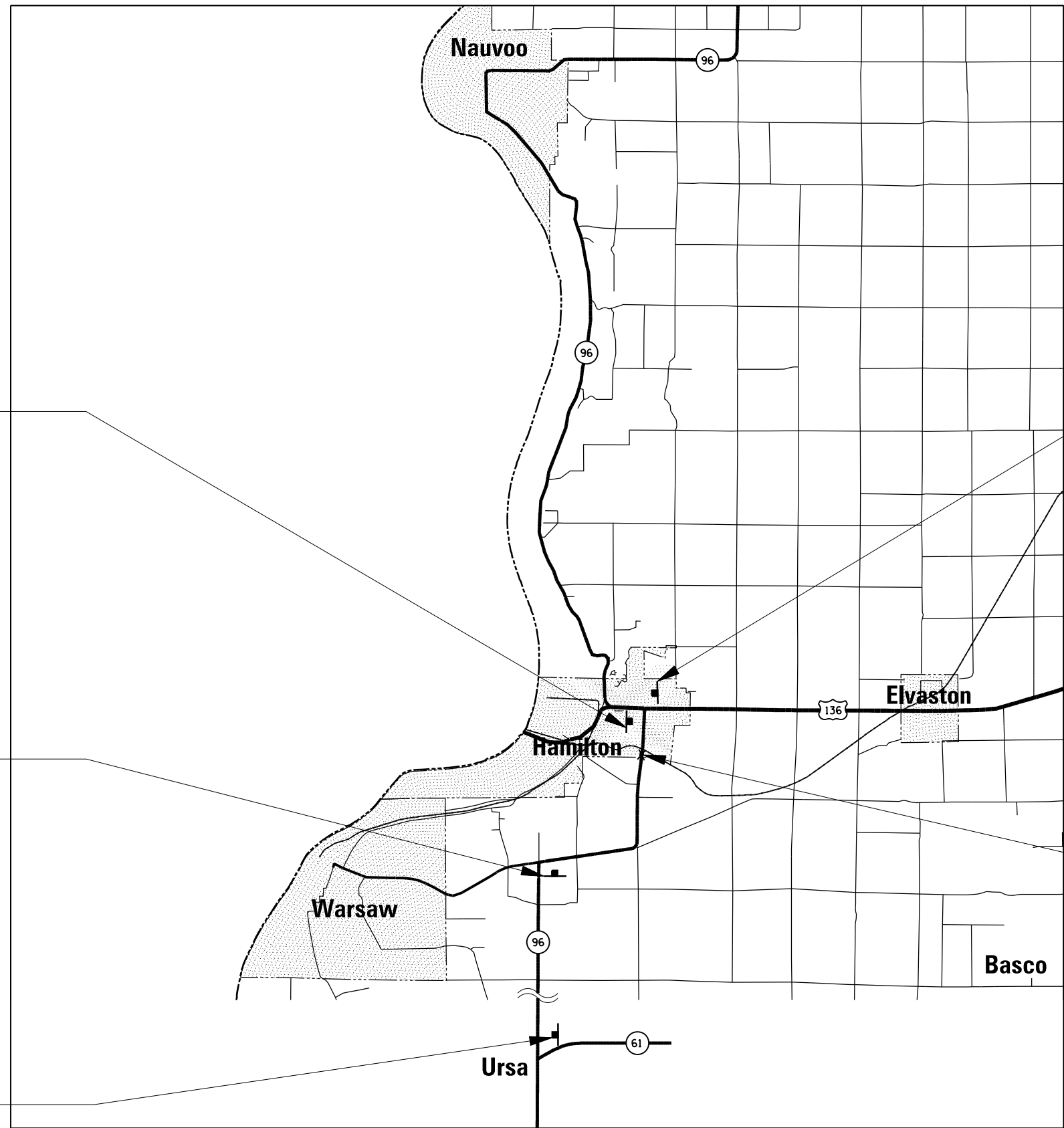
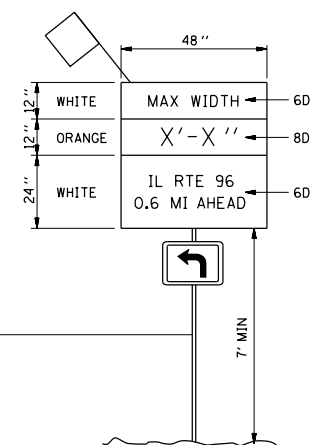
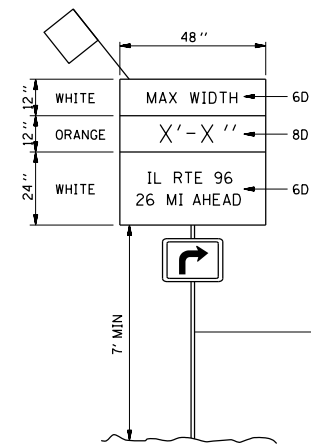
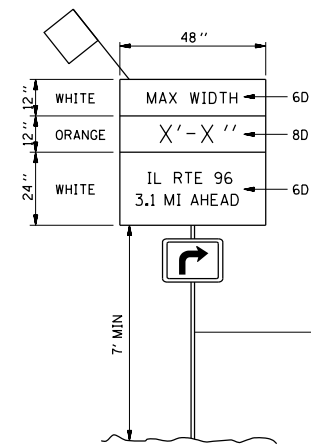
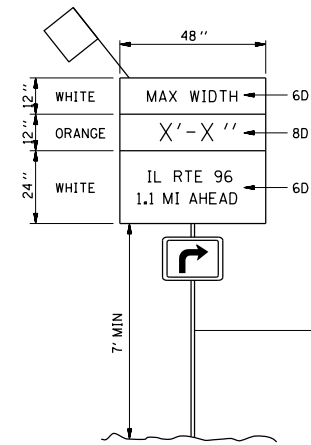
NOTE 1: WIDTH OF ENTRANCE MAY BE INCREASED AT THE PIPE CULVERT DUE TO THE DITCHLINE BEING LOCATED IN THE ENTRANCE FLARE AREA.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

2/19/03

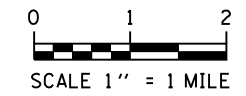
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PLOT DATE = Aug-11-2010 10:38:40AM	DATE -	REVISED -	SCALE:			SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

D-96-525-05



PROJECT LOCATION

**MAXIMUM WIDTH SIGNING**



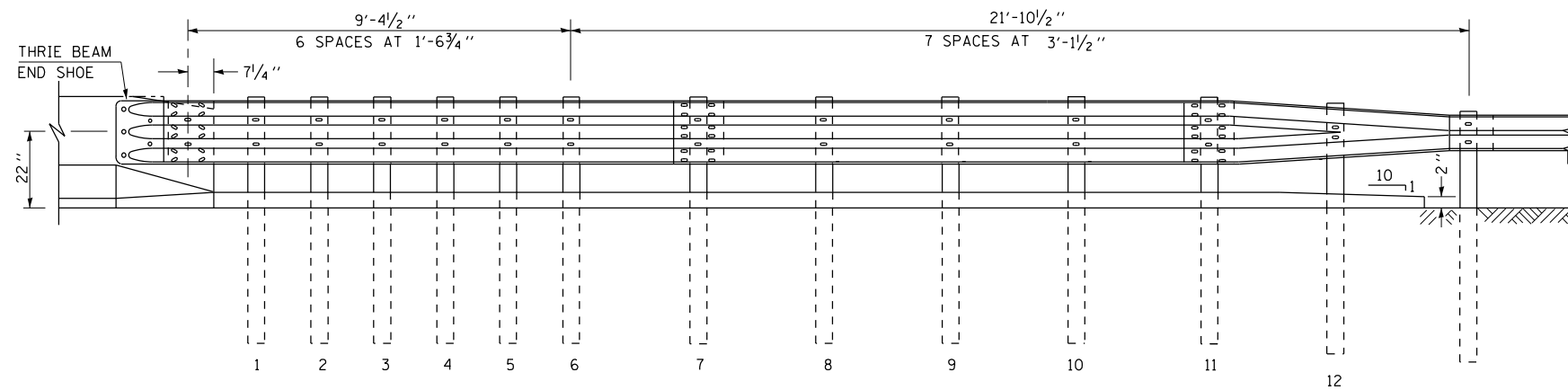
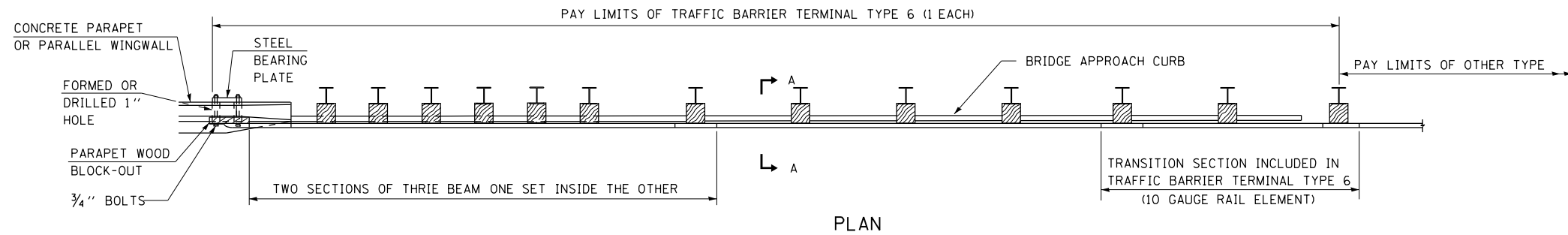
STAGE I MAXIMUM WIDTH 12'-8"  
STAGE II MAXIMUM WIDTH 12'-0"

NOTE:  
ACTUAL MAX WIDTHS ARE TO BE MEASURED BY THE ENGINEER AFTER TEMPORARY CONCRETE BARRIER WALL IS PLACED FOR STAGE I. WIDTH SHALL BE REMEASURED AND SIGNS UPDATED FOR STAGE II.

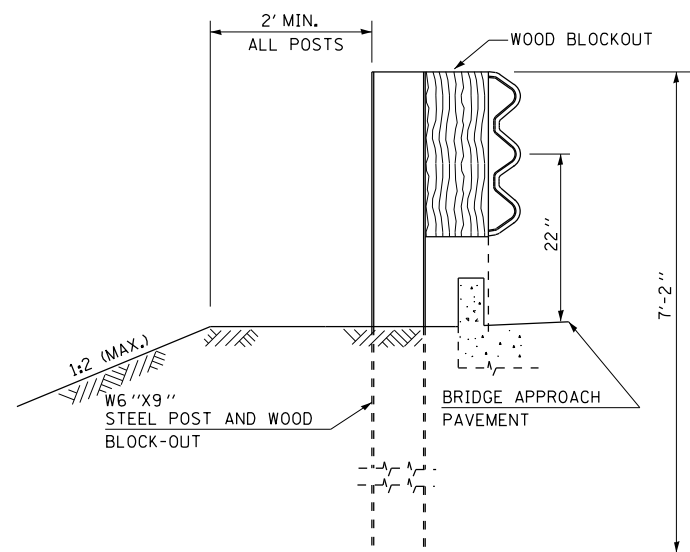
MAX WIDTH SIGNS SHALL BE PAID FOR AS ONE LUMP SUM UNDER "WIDTH RESTRICTION SIGNING" (PAY CODE X7200201)

FILE NAME =	USER NAME = laughl1n1	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>WIDE LOAD DETOUR MAP</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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**ELEVATION**

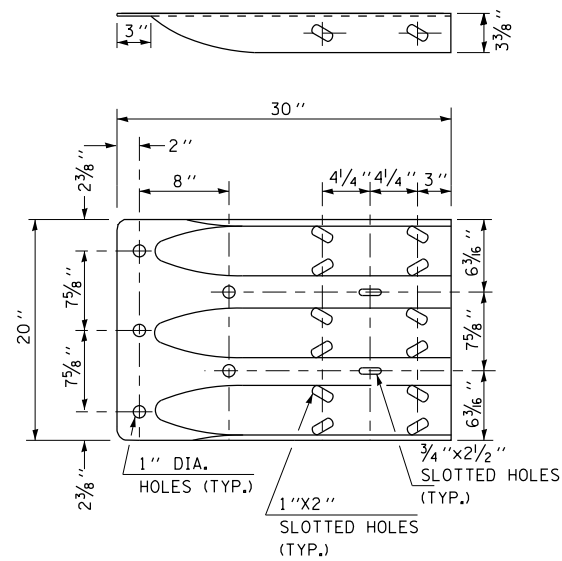


**SECTION A-A**

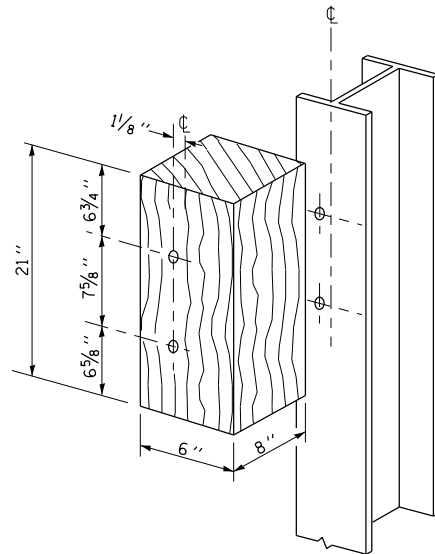
**GENERAL NOTES**

1. SEE STANDARD 630001 FOR DETAILS OF GUARDRAIL NOT SHOWN.
2. THRIE BEAM RAIL SHALL BE BOLTED TO BLOCK-OUT AT ALL POSTS.
3. SEE STANDARD 420401 FOR DETAILS OF BRIDGE APPROACH PAVEMENT.
4. ALL SLOPE RATIOS ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).
5. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

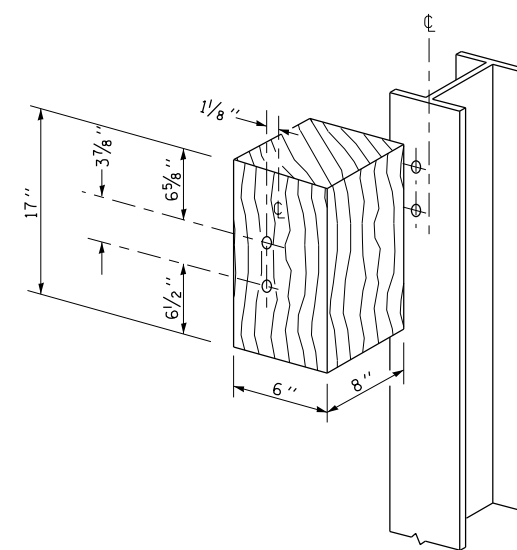
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							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



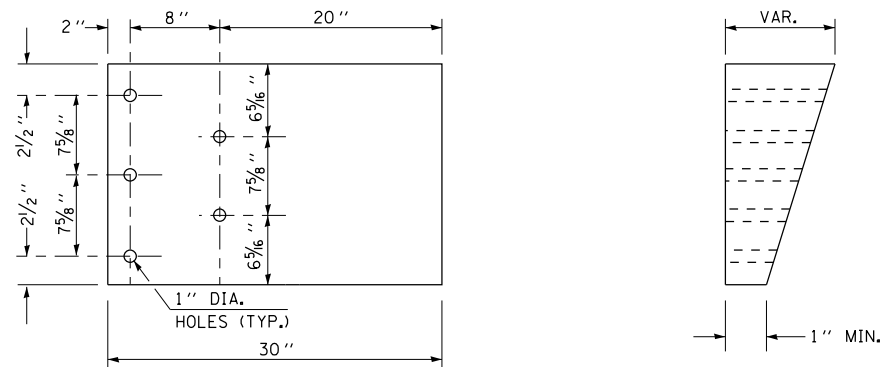
**THRIE BEAM END SHOE DETAIL**



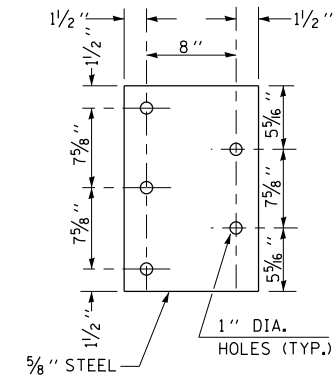
**POSTS 1-11 WOOD BLOCKOUT DETAIL**



**POST 12 WOOD BLOCKOUT DETAIL**



**PARAPET WOOD BLOCK-OUT DETAIL**



**PARAPET STEEL BEARING PLATE DETAIL**

(5 EACH INDIVIDUAL 5"X5"X5/8" STEEL PLATES WITH CENTERED 1" HOLES MAY BE SUBSTITUTED FOR THE PLATE SHOWN.)

FILE NAME =	USER NAME = laughlir1	DESIGNED -	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

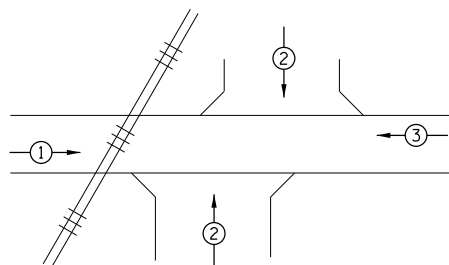
**TRAFFIC BARRIER  
TERMINAL, TYPE 6 (SPECIAL)**

SCALE: SHEET NO. 0F 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	123 B-1	HANCOCK	70	26
CONTRACT NO. 72992				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

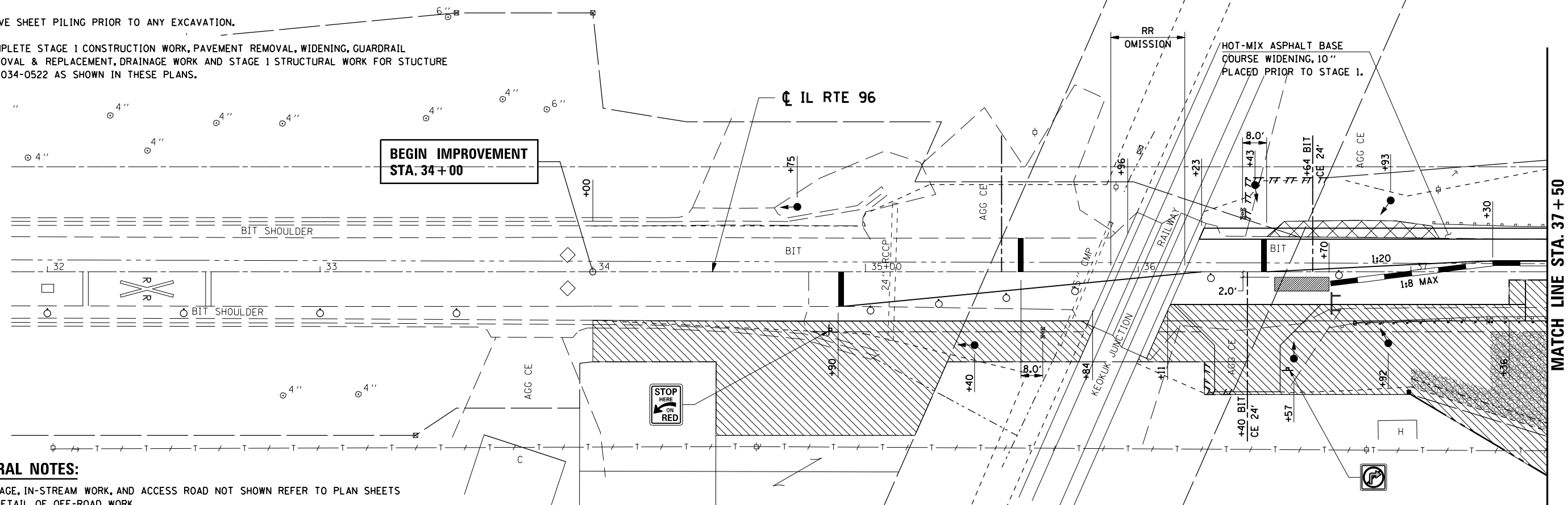
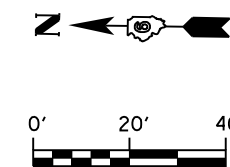
**STAGE 1 SEQUENCE OF CONSTRUCTION**

1. PRIOR TO INSTALLATION OF STAGE 1 TRAFFIC CONTROL, PIPE CULVERT AT STA. 35+82.45 SHALL BE REPLACED USING STANDARD 701201.
2. REMOVE EXISTING BITUMINOUS SHOULDER ON EAST SIDE OF IL 96 AND REPLACE WITH HOT-MIX ASPHALT BASE COURSE, 10" AS SHOWN ON THESE PLANS. UTILIZE TRAFFIC CONTROL AND PROTECTION STANDARD 701326.
3. SET UP TEMPORARY TRAFFIC CONTROL UTILIZING THESE PLANS IN CONJUNCTION WITH STANDARD 701321 AND 704001.
4. PLACE TEMPORARY BARRIERS AND PAVEMENT MARKING IN ACCORDANCE WITH THESE PLANS FOR STAGE 1 CONSTRUCTION.
5. LOCATE TEMPORARY TRAFFIC SIGNALS AS SHOWN ON THESE PLANS. INSTALL LOOP DETECTORS.
6. DRIVE SHEET PILING PRIOR TO ANY EXCAVATION.
7. COMPLETE STAGE 1 CONSTRUCTION WORK, PAVEMENT REMOVAL, WIDENING, GUARDRAIL REMOVAL & REPLACEMENT, DRAINAGE WORK AND STAGE 1 STRUCTURAL WORK FOR STRUCTURE No. 034-0522 AS SHOWN IN THESE PLANS.



**PREEMPT SEQUENCE:**

GO TO YELLOW  
 RUN ALL RED CLEARANCE  
 HOLD ALL RED  
 RUN ALL RED CLEARANCE WHEN PREEMPT DEACTIVATES  
 NORMAL OPERATION



**GENERAL NOTES:**

1. DRAINAGE, IN-STREAM WORK, AND ACCESS ROAD NOT SHOWN REFER TO PLAN SHEETS FOR DETAIL OF OFF-ROAD WORK.
2. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ENTRANCES AT ALL TIMES.
3. THIS TRAFFIC CONTROL PLAN SHALL BE USED IN CONJUNCTION WITH STANDARD 701321-09 AND AS DIRECTED BY THE ENGINEER.
4. VERTICAL PANELS, DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, SIGNS, TRAFFIC SIGNALS, MICROWAVE DETECTOR SYSTEMS, DETECTOR LOOPS, AND TYPE C BIDIRECTIONAL REFLECTORS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)".
5. THE CONTRACTOR SHALL PROVIDE AND ERECT A W12-I102 48X48(0) LANE WIDTH SIGNS. THESE SIGNS SHALL BE PLACED AS DIRECTED BY THE ENGINEER BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL.
6. REMOVE ANY CONFLICTING PAVEMENT MARKINGS.
7. THE CONTRACTOR SHALL NOTIFY THE DISTRICT 6 TRAFFIC SECTION OF THE BUREAU OF OPERATIONS (PH: 785-5836) AT LEAST ONE WEEK PRIOR TO IMPLEMENTING STAGE TRAFFIC CONTROL AND WHEN EVER A SWITCH IN STAGING IS MADE.
8. THE CONTRACTOR SHALL NOTIFY THE DISTRICT 6 TRAFFIC SECTION OF THE BUREAU OF OPERATIONS AT LEAST THREE (3) DAYS PRIOR TO ACTIVATING THE TEMPORARY TRAFFIC SIGNALS. PLEASE REFER TO THE DISTRICT 6 SPECIAL PROVISIONS FOR TEMPORARY BRIDGE TRAFFIC SIGNALS FOR CONTACT INFORMATION.

**LEGEND**

- WORK AREA
- INDUCTION LOOP DETECTOR
- IMPACT ATTENUATOR
- 24" STOP BAR
- DRUMS WITH STEADY BURNING LIGHTS
- TEMPORARY TRAFFIC SIGNAL
- TEMPORARY CONCRETE BARRIER
- TYPE III BARRICADE
- DOUBLE VERTICAL PANEL W/STEADY BURNING LIGHTS

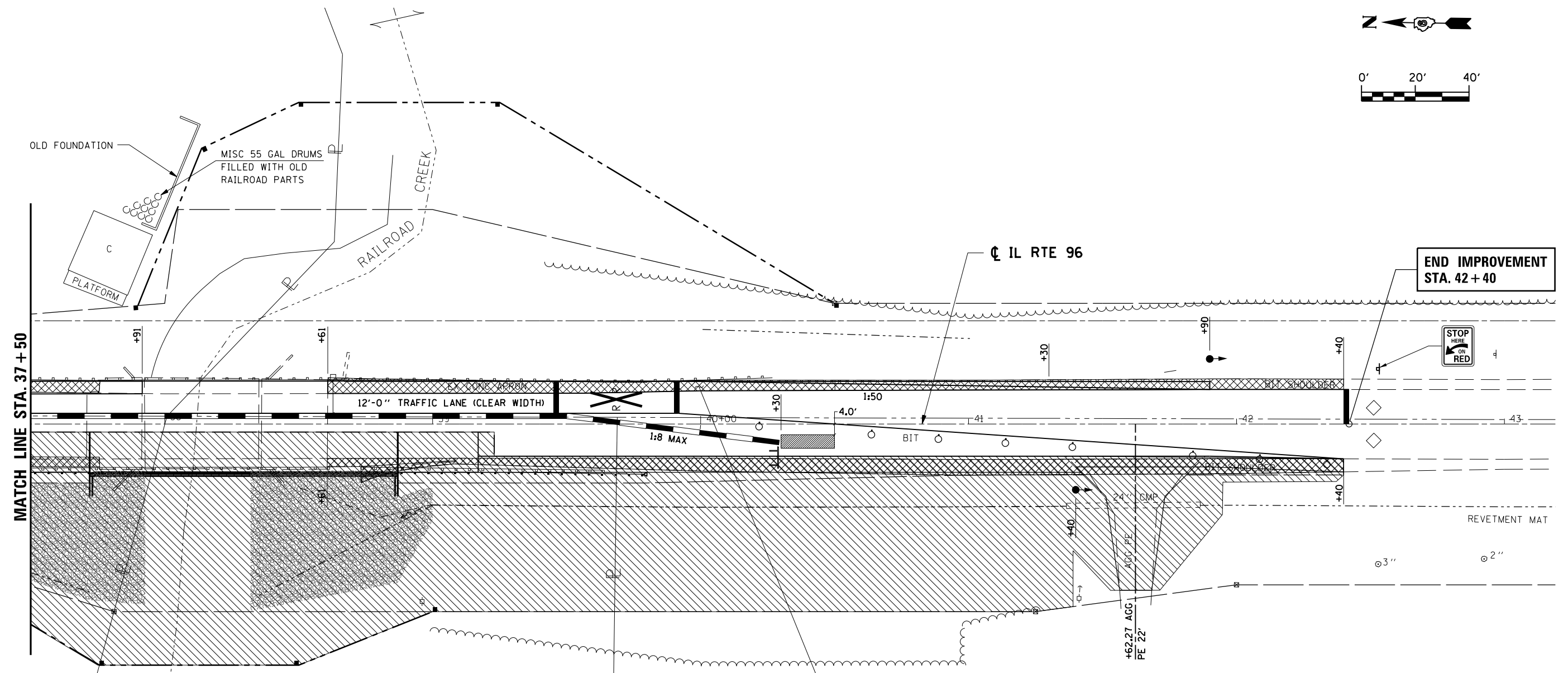
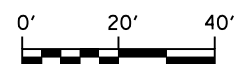
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC  
 STAGE 1**

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. 32+00 TO STA. 37+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	123 B-1	HANCOCK	70	27
CONTRACT NO. 72992				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**LEGEND**

	WORK AREA
	INDUCTION LOOP DETECTOR
	IMPACT ATTENUATOR
	24" STOP BAR
	DRUMS WITH STEADY BURNING LIGHTS
	TEMPORARY TRAFFIC SIGNAL
	TEMPORARY CONCRETE BARRIER
	TYPE III BARRICADE
	DOUBLE VERTICAL PANEL W/STEADY BURNING LIGHTS

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

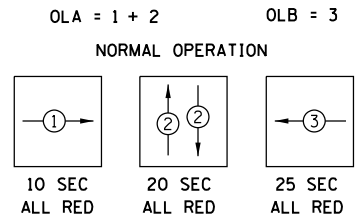
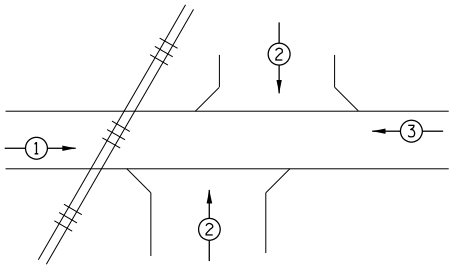
**MAINTENANCE OF TRAFFIC  
STAGE 1**

SCALE: 1" = 20'    SHEET NO. OF    SHEETS    STA. 37+50 TO STA.    43+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	123 B-1	HANCOCK	70	28
CONTRACT NO. 72992				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

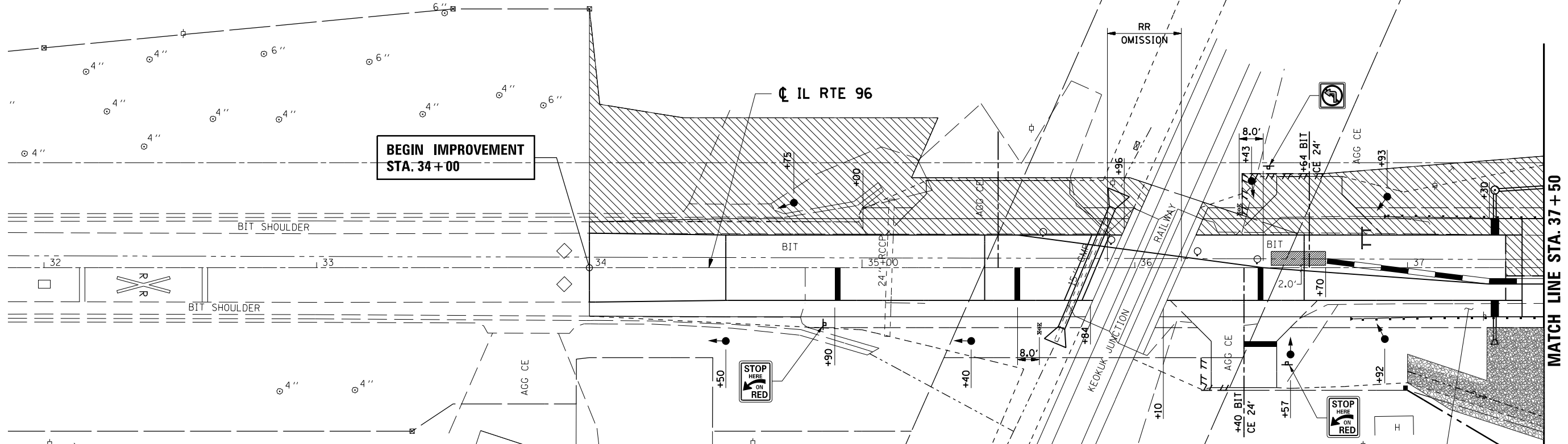
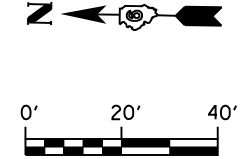
**STAGE 2 SEQUENCE OF CONSTRUCTION**

1. RELOCATE LOCATE TEMPORARY BARRIERS & ATTENUATORS AND PUT IN PLACE OTHER TRAFFIC CONTROL MEASURES FOR STAGE 2 CONSTRUCTION AS REQUIRED BY STANDARD 701321.
2. COMPLETE ALL STAGE 2 CONSTRUCTION WORK, PAVEMENT, GUARDRAIL REMOVAL & REPLACEMENT, DRAINAGE WORK AND STAGE 2 STRUCTURAL WORK AS SHOWN IN THESE PLANS.
3. REMOVE TEMPORARY TRAFFIC CONTROL DEVICES FOR STAGE 2 CONSTRUCTION INCLUDING TEMPORARY BARRIERS AND TEMPORARY PAVEMENT MARKINGS.
4. PLACE TRAFFIC CONTROLS MEASURES AS REQUIRED BY STANDARD 701306.
5. COMPLETE RESURFACING AS SHOWN IN THESE PLANS.



**PREEMPT SEQUENCE:**

GO TO YELLOW  
 RUN ALL RED CLEARANCE  
 HOLD ALL RED  
 RUN ALL RED CLEARANCE WHEN PREEMPT DEACTIVATES  
 NORMAL OPERATION

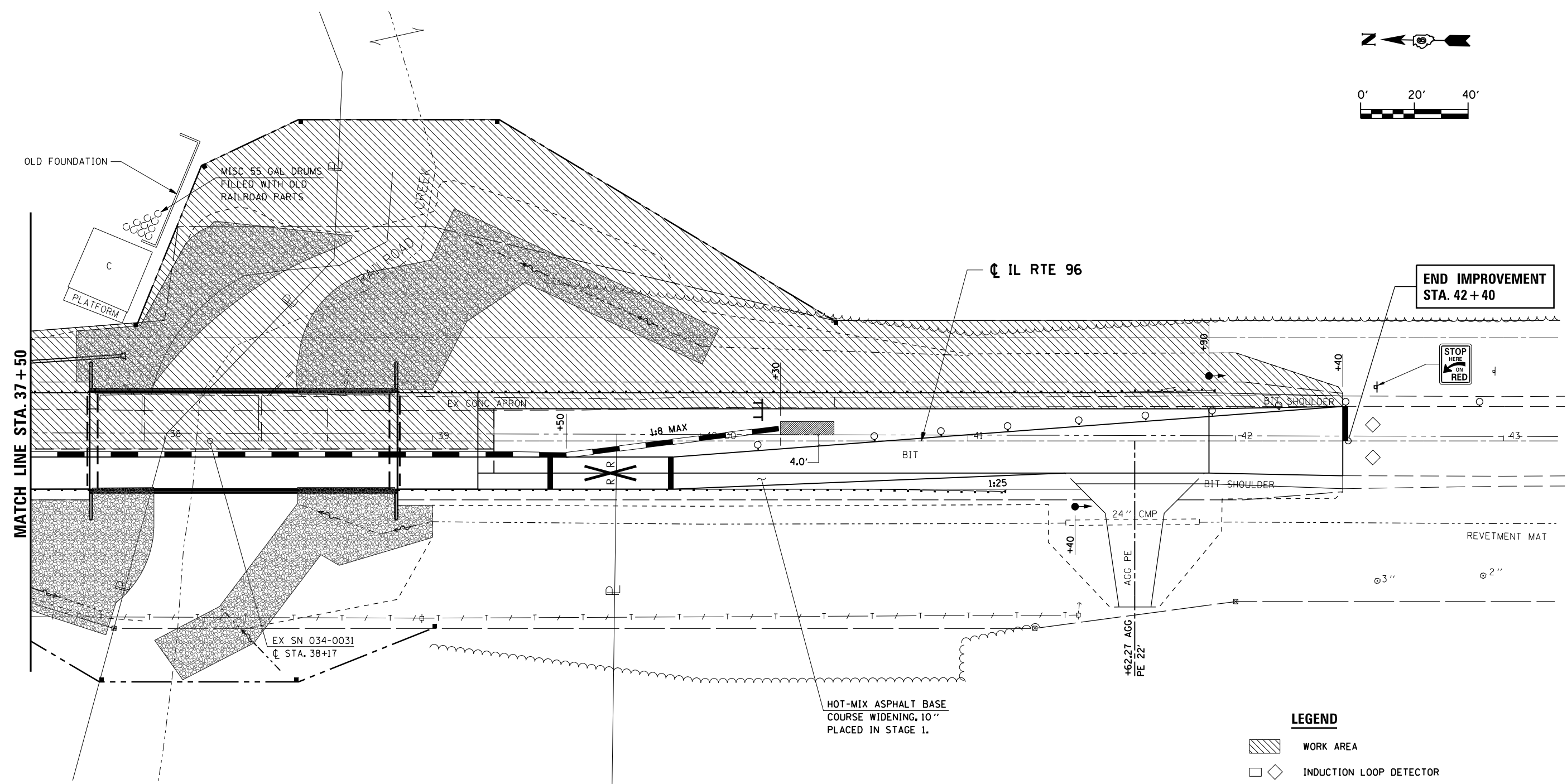
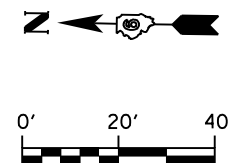


**GENERAL NOTES:**

1. DRAINAGE, IN-STREAM WORK, AND ACCESS ROAD NOT SHOWN REFER TO PLAN SHEETS FOR DETAIL OF OFF-ROAD WORK.
2. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ENTRANCES AT ALL TIMES.
3. THIS TRAFFIC CONTROL PLAN SHALL BE USED IN CONJUNCTION WITH STANDARD 701321-09 AND AS DIRECTED BY THE ENGINEER.
4. VERTICAL PANELS, DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, SIGNS, TRAFFIC SIGNALS, MICROWAVE DETECTOR SYSTEMS, DETECTOR LOOPS, AND TYPE C BIDIRECTIONAL REFLECTORS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)".
5. THE CONTRACTOR SHALL PROVIDE AND ERECT A W12-1102 48X48(O) LANE WIDTH SIGNS. THESE SIGNS SHALL BE PLACED AS DIRECTED BY THE ENGINEER BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL.
6. REMOVE ANY CONFLICTING PAVEMENT MARKINGS.
7. THE CONTRACTOR SHALL NOTIFY THE DISTRICT 6 TRAFFIC SECTION OF THE BUREAU OF OPERATIONS (PH: 785-5836) AT LEAST ONE WEEK PRIOR TO IMPLEMENTING STAGE TRAFFIC CONTROL AND WHEN EVER A SWITCH IN STAGING IS MADE.
8. THE CONTRACTOR SHALL NOTIFY THE DISTRICT 6 TRAFFIC SECTION OF THE BUREAU OF OPERATIONS AT LEAST THREE (3) DAYS PRIOR TO ACTIVATING THE TEMPORARY TRAFFIC SIGNALS. PLEASE REFER TO THE DISTRICT 6 SPECIAL PROVISIONS FOR TEMPORARY BRIDGE TRAFFIC SIGNALS FOR CONTACT INFORMATION.

- WORK AREA
- INDUCTION LOOP DETECTOR
- IMPACT ATTENUATOR
- 24" STOP BAR
- DRUMS WITH STEADY BURNING LIGHTS
- TEMPORARY TRAFFIC SIGNAL
- TEMPORARY CONCRETE BARRIER
- TYPE III BARRICADE
- DOUBLE VERTICAL PANEL W/STEADY BURNING LIGHTS

FILE NAME =	USER NAME = laughl1n1	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC STAGE 2</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		CHECKED -	REVISED -							CONTRACT NO. 72992			
		DATE - 10-22-07	REVISED -							FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



**LEGEND**

	WORK AREA
	INDUCTION LOOP DETECTOR
	IMPACT ATTENUATOR
	24" STOP BAR
	DRUMS WITH STEADY BURNING LIGHTS
	TEMPORARY TRAFFIC SIGNAL
	TEMPORARY CONCRETE BARRIER
	TYPE III BARRICADE
	DOUBLE VERTICAL PANEL W/STEADY BURNING LIGHTS

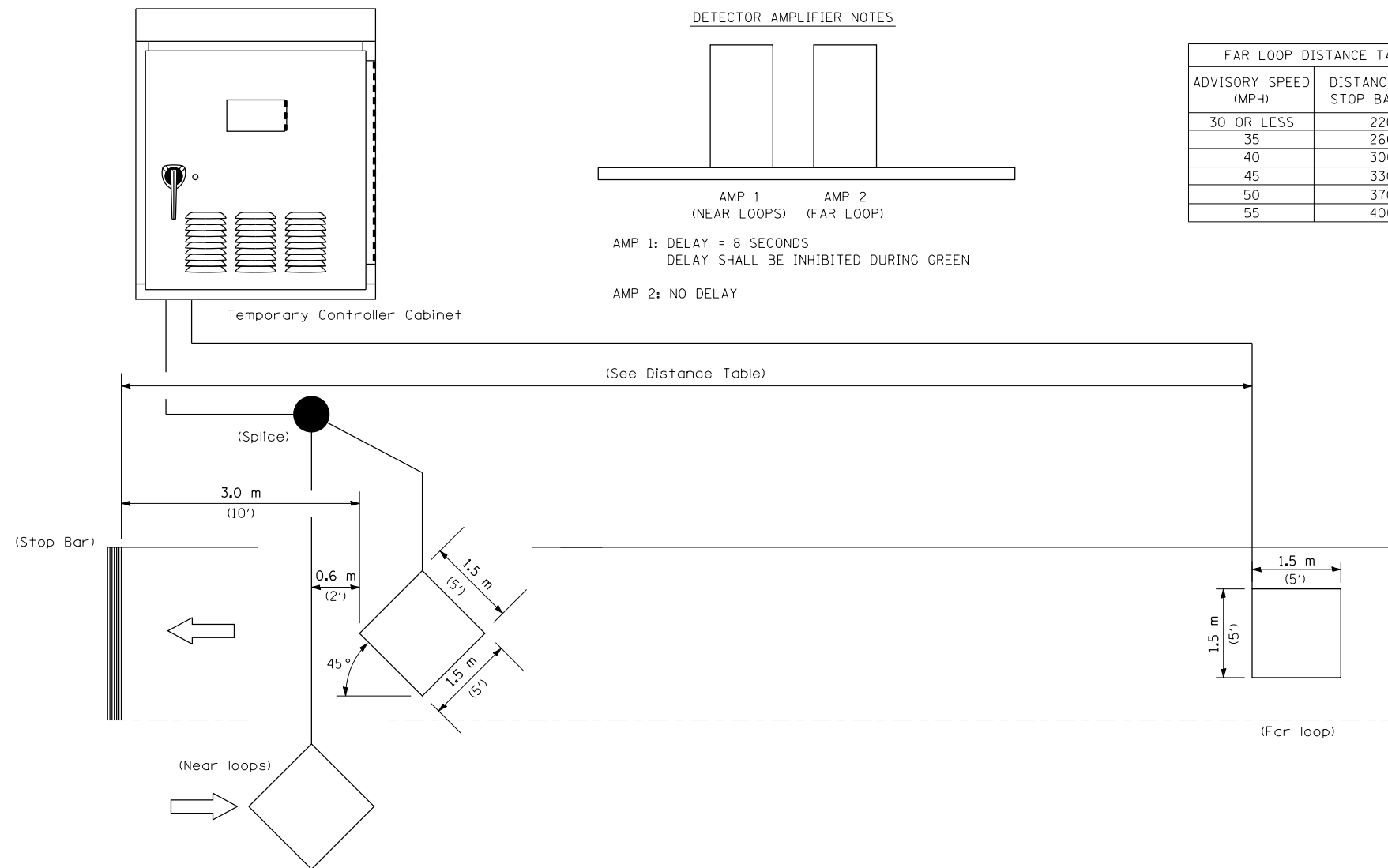
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	PLOT DATE = Aug-11-2010 10:39:24AM	DATE - 10-22-07	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC  
STAGE 2**

SCALE: 1" = 20'    SHEET NO. OF    SHEETS    STA. 37+50 TO STA.    43+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	123 B-1	HANCOCK	70	30
CONTRACT NO. 72992				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



NOTE: All loops centered in lane.

INDUCTION LOOP DETECTOR

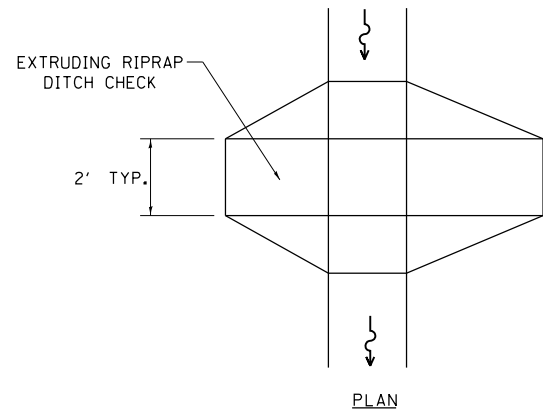
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

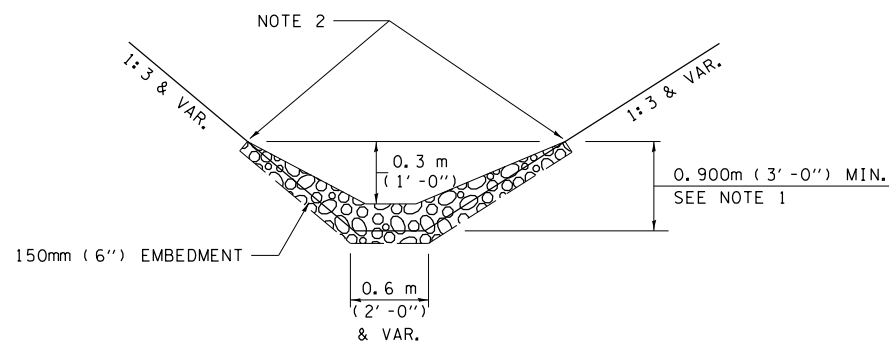
**TEMPORARY BRIDGE TRAFFIC SIGNAL  
LOOP PLACEMENT DETAIL SHEET**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	123 B-1	HANCOCK	70	31
CONTRACT NO. 72992				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



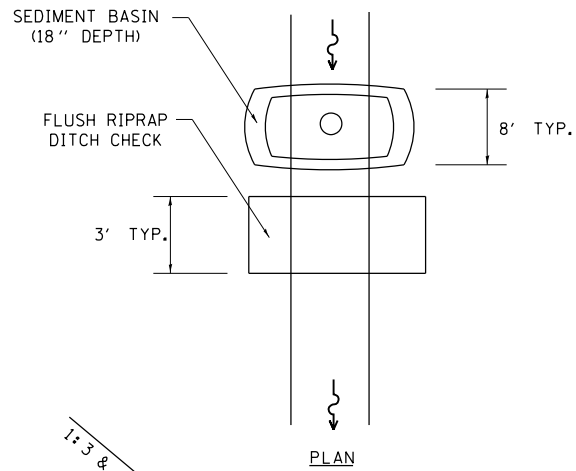
PLAN



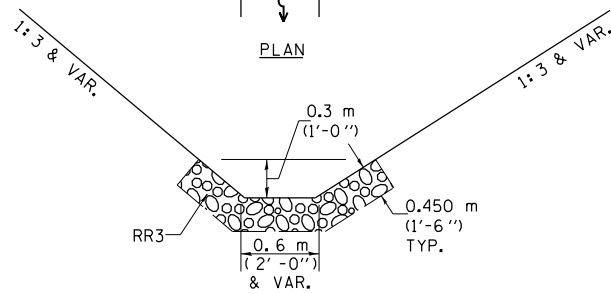
ELEVATION

OPTION 1

(EXTRUDING DITCH CHECK)  
RECOMMENDED FOR AREAS  
W/ RIPRAP DITCH LINING



PLAN



ELEVATION

OPTION 2

(FLUSH DITCH CHECK)  
RECOMMENDED FOR AREAS  
W/O RIPRAP DITCH LINING

**STONE DUMPED RIPRAP DITCH CHECK**  
(TYPICAL & OPTIONS 1 & 2  
AS DIRECTED BY THE ENGINEER)

NOTE 1: RIPRAP SHALL EXTEND FAR ENOUGH UP THE SLOPES TO ALLOW 0.3m (1') OVERTOPPING TO AVOID ERODING AROUND THE EDGES OF THE RIPRAP.

NOTE 2: ENDS SHALL BE TIED INTO SLOPES.

LEGEND FOR STORM WATER POLLUTION PREVENTION PLAN	
ITEM	SYMBOL
AGGREGATE (EROSION CONTROL) [STONE DUMPED RIPRAP DITCH CHECKS: Height = 0.6m (2')] ]	
TEMPORARY DITCH CHECKS	
INLET PIPE PROTECTION (I&PP)	
PERIMETER EROSION BARRIER	
EARTH EXCAVATION FOR EROSION CONTROL (SEDIMENT BASINS)	
PRESERVE EXISTING TREES, WOODLANDS, AND UNDERSTORY (OUTSIDE CONSTRUCTION LIMITS)	
ITEM PLACED AT BEGINNING OF CONSTRUCTION (Requirement)	
ITEM PLACED AS DIRECTED BY ENGINEER (When required by situation)	
DIRECTION OF OVERLAND FLOW	

GENERAL NOTES:

All items shall be constructed as shown on this sheet, on Standard 280001, and as directed by the Engineer.

The symbology on the STORM WATER POLLUTION PREVENTION PLAN sheets does not represent the size or quantity of bales, for number of bales refer to details and notes shown on this sheet and/or as directed by the Engineer.

**THE CONTRACTOR SHALL INSTALL DITCH CHECKS AS DIRECTED BY THE ENGINEER. IF THE ENGINEER ELECTS TO UTILIZE FLUSH RIPRAP DITCH CHECKS IN LIEU OF TEMPORARY DITCH CHECKS AS SHOWN ON THE FOLLOWING PLAN SHEETS, THE SPACING SHOULD BE DOUBLED.**

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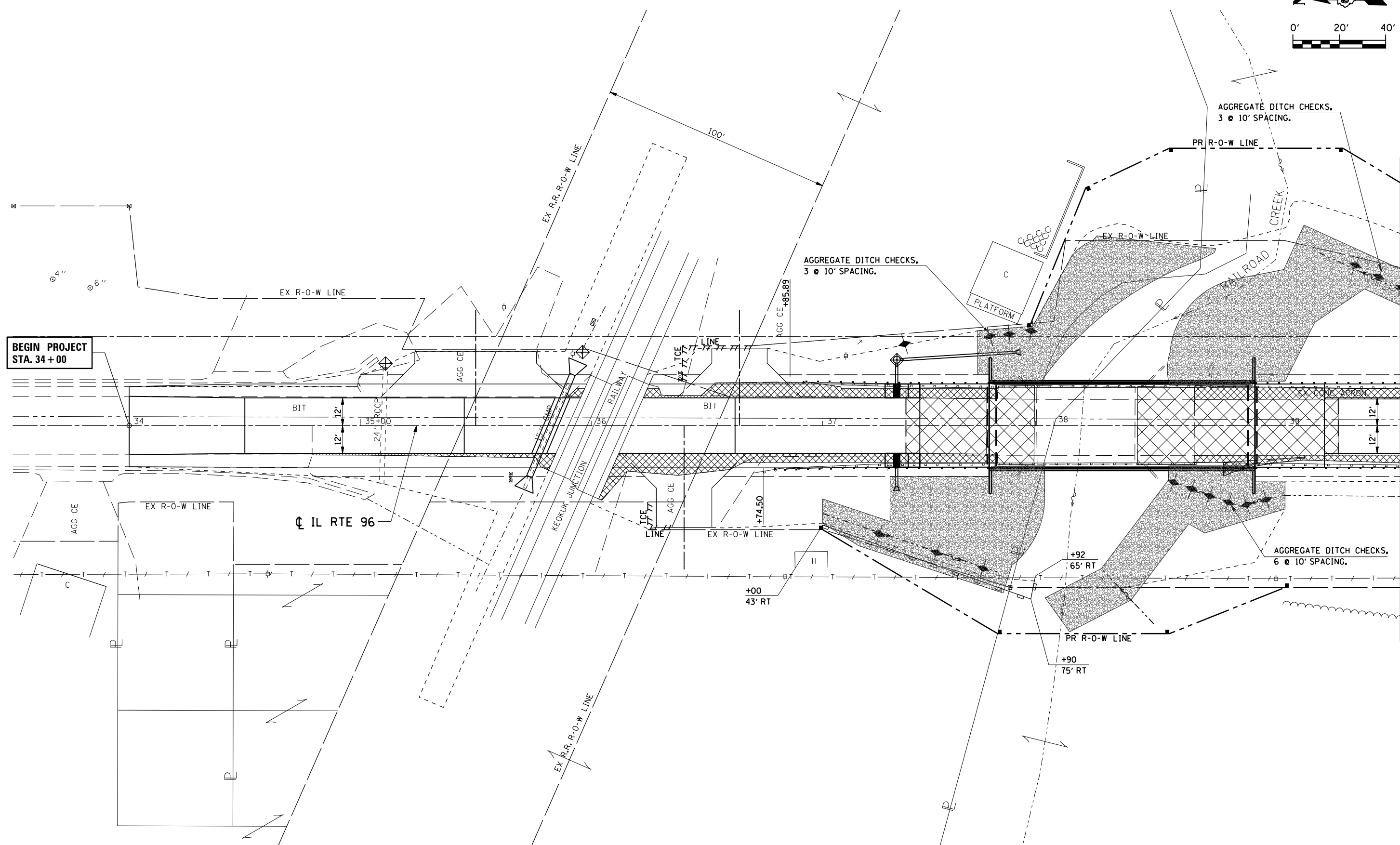
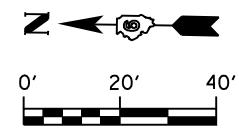
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL DETAILS**

SCALE: NONE SHEET NO. 30F 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	123 B-1	HANCOCK	70	32
CONTRACT NO. 72992				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				





BEGIN PROJECT  
STA. 34 + 00

MATCH LINE STA. 39 + 50

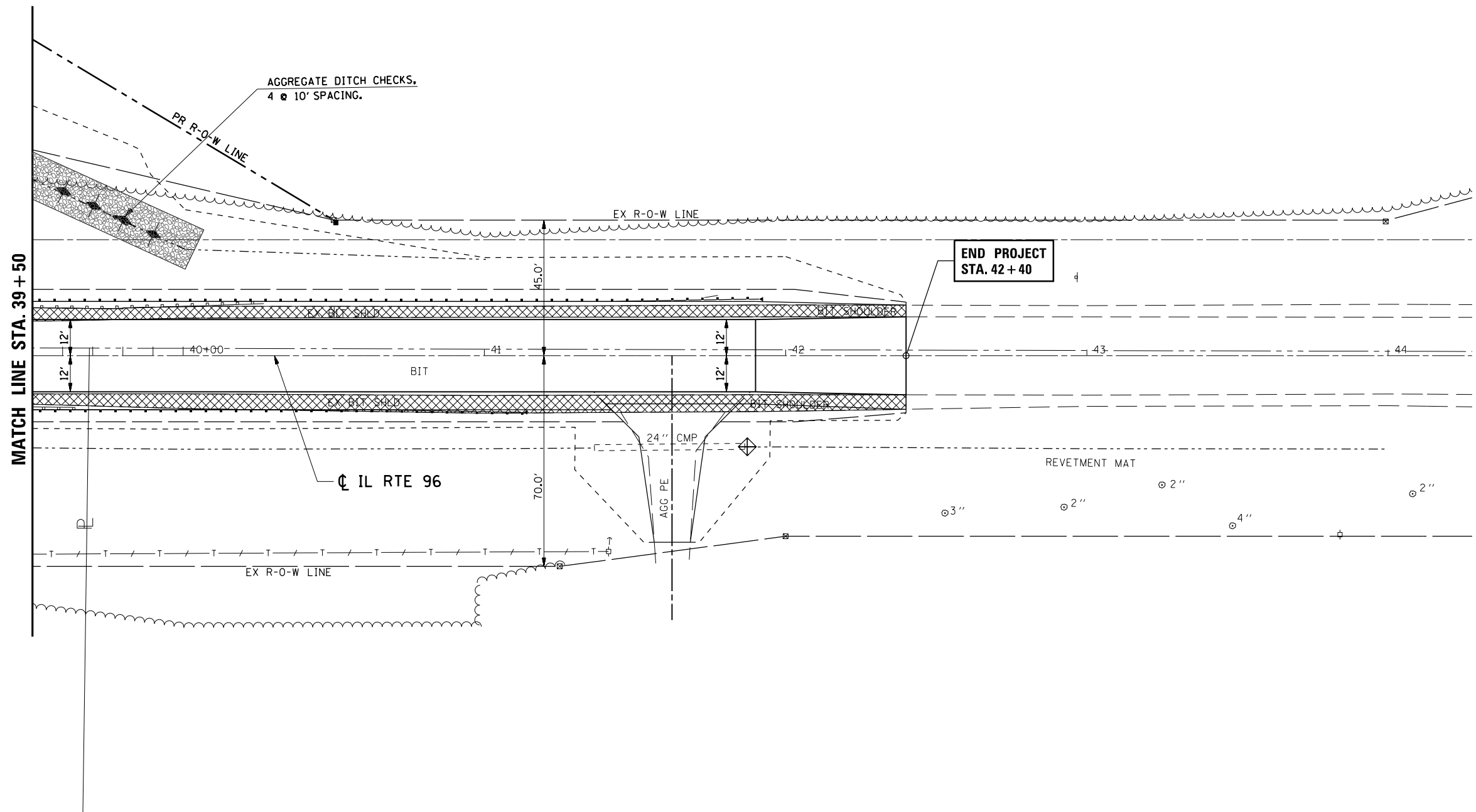
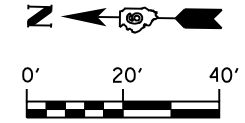
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	PLOT DATE = Aug-11-2010 10:39:42AM	DATE - 10-22-07	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN**

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. 33+50 TO STA. 39+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	123 B-1	HANCOCK	70	33
CONTRACT NO. 72992				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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PLOT SCALE = 40.0000' / in.		CHECKED -	REVISED -
PLOT DATE = Aug-11-2010 10:39:50AM		DATE - 10-22-07	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN**

SCALE: 1" = 20'    SHEET NO. OF    SHEETS    STA. 39+50 TO STA.    44+00

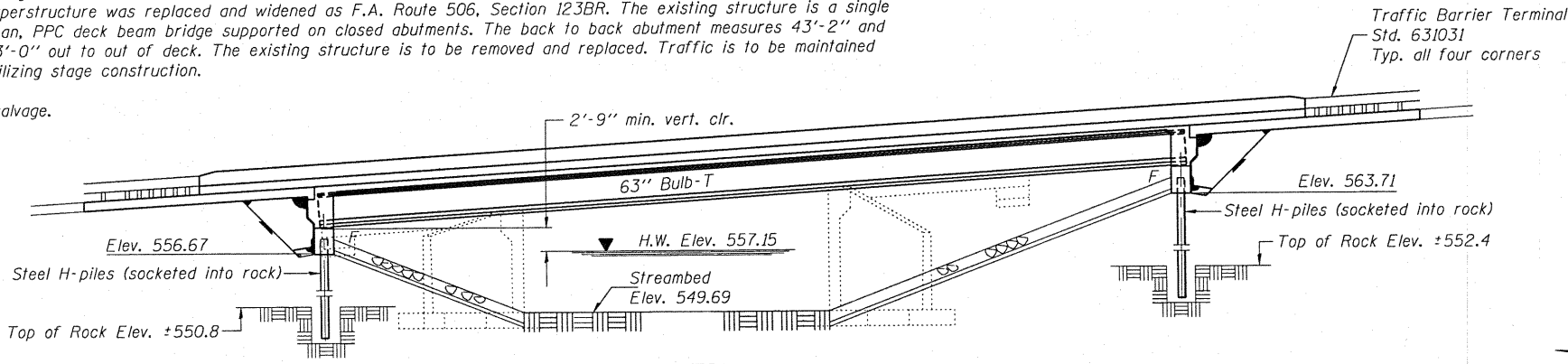
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	123 B-1	HANCOCK	70	34
CONTRACT NO. 72992				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

Bench Mark: BM#133, chiseled square on headwall at south end west headwall box culvert north of RR crossing  
Sta. 35+75, 17.7' Rt. Elevation 559.677

Existing Structure: S.N. 034-0031, originally built in 1930 as S.B.I. 96, Section 123A. In 1983, the channel beam superstructure was replaced and widened as F.A. Route 506, Section 123BR. The existing structure is a single span, PPC deck beam bridge supported on closed abutments. The back to back abutment measures 43'-2" and 33'-0" out to out of deck. The existing structure is to be removed and replaced. Traffic is to be maintained utilizing stage construction.

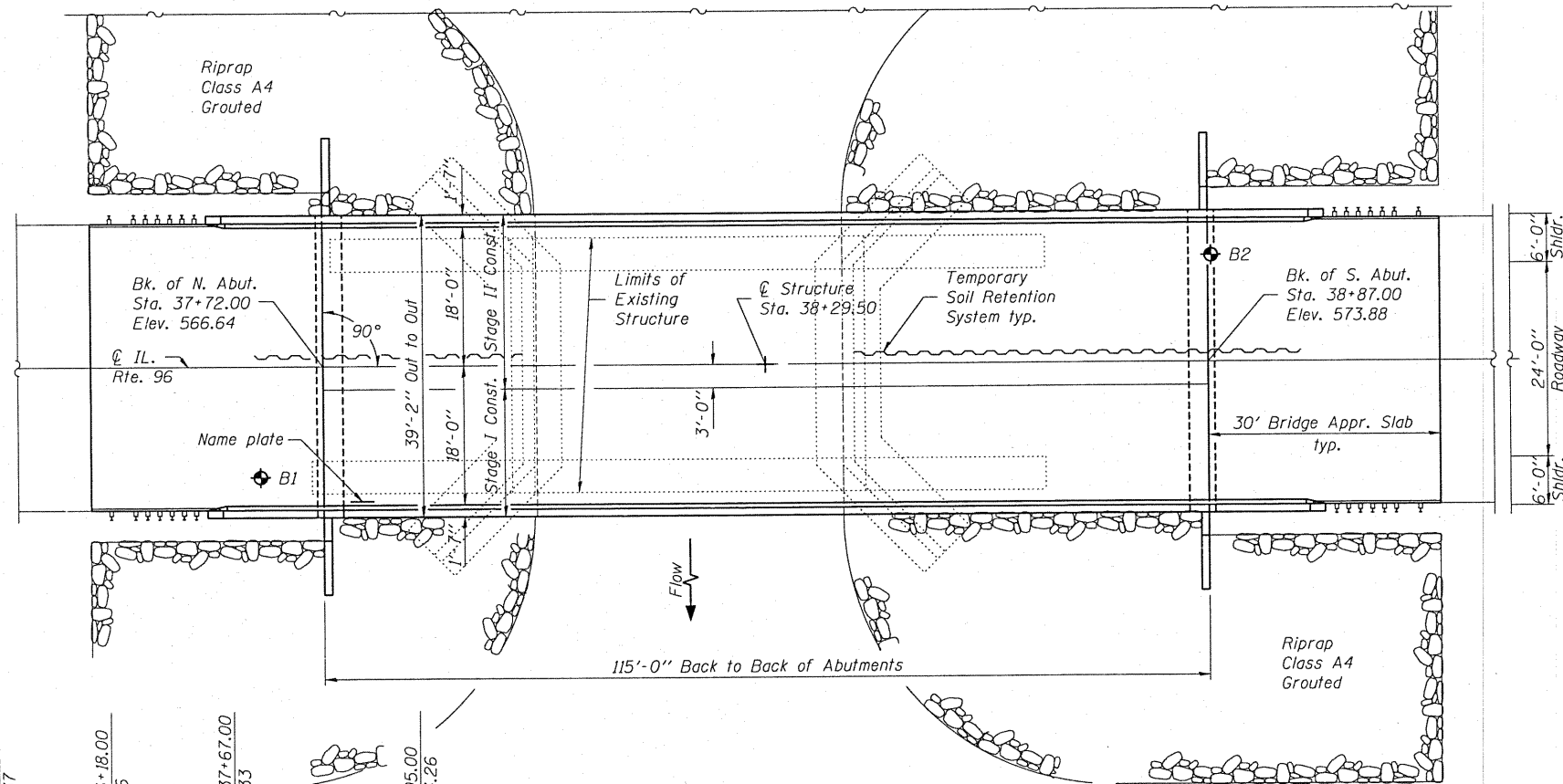
No salvage.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

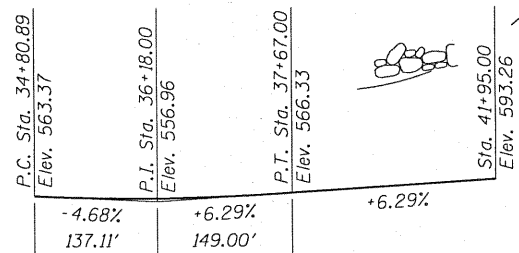


ELEVATION

Note: See Roadway Plans for limits of additional riprap.

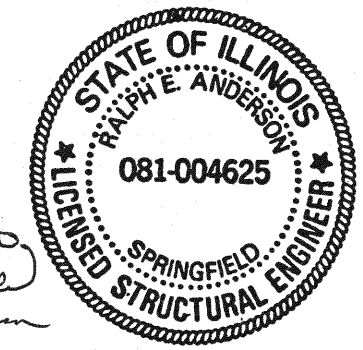


PLAN



PROFILE GRADE  
(along  $\phi$  Roadway)

DESIGNED *Fosella* November 24, 2010  
CHECKED *Stephan*  
DRAWN *h.t. duong*  
CHECKED *FT/SMR*  
EXAMINED *Thomas*  
PASSED *Ralph E. Anderson*  
ENGINEER OF BRIDGE DESIGN  
ENGINEER OF BRIDGE AND STRUCTURES



EXPIRES 11-30-2012

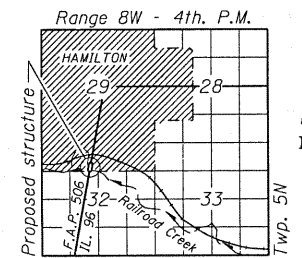
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (feet)	N. Abutment	S. Abutment
	556.67	563.71

WATERWAY INFORMATION

Drainage Area = 7.52 sq. mi. Exist. Low Grade Elev. 560.87@ Sta. 36+00

Flood	Freq. Yr.	Opening Sq. Ft.		Head - Ft.		Headwater El.			
		Exist.	Prop.	Exist.	Prop.	Exist.	Prop.		
0	1977	221	331	0.92	0.45	556.84	556.37		
Design	50	3106	274	417	557.15	1.90	0.72	559.05	557.87
Base	100	3593	294	450	557.59	2.46	0.86	560.05	558.45
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	4769	336	523	558.55	3.69	1.29	562.24	559.84



LOCATION SKETCH

INDEX OF SHEETS

- 1 General Plan & Elevation
- 2 General Data
- 3 Stage Construction Details
- 4 Temporary Concrete Barrier
- 5-7 Top of Slab Elevations
- 8 Top of North Approach Slab Elevations
- 9 Top of South Approach Slab Elevations
- 10 Superstructure
- 11 Superstructure Details
- 12 Diaphragm Details
- 13-14 Bridge Approach Slab Details
- 15 Framing Plan
- 16-17 Beam Details
- 18 North Abutment
- 19 South Abutment
- 20 Bar Splicer Assembly Details
- 21 HP Pile Details
- 22 Concrete Parapet Slipforming Option
- 23 Boring Logs

DESIGN STRESSES

**FIELD UNITS**  
 $f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (reinforcement)

**PRECAST PRESTRESSED UNITS**  
 $f'_c = 7,000$  psi  
 $f'_{ci} = 6,000$  psi  
 $f'_s = 270,000$  psi ( $\frac{1}{2}$ "  $\phi$  low lax. strands)  
 $f_{si} = 201,960$  psi ( $\frac{1}{2}$ "  $\phi$  low lax. strands)

**SEISMIC DATA**  
Seismic Performance Zone (SPZ) = 1  
Bedrock Acceleration Coefficient (A) = 0.04g  
Site Coefficient (S) = 1.0

**LOADING HL-93**  
Allow 50#/sq. ft. for future wearing surface.

**DESIGN SPECIFICATIONS**  
2007 AASHTO LRFD Bridge Design Specifications, 4th. Edition

STATION 38+29.50  
BUILT 20 BY  
STATE OF ILLINOIS  
F.A.P. RTE. 506 SEC. 123B-1  
LOADING HL93  
STRUCTURE NO. 034-0522

**NAME PLATE**  
See Std. 515001

GENERAL PLAN & ELEVATION  
IL. ROUTE 96 OVER RAILROAD CREEK  
F.A.P. ROUTE 506 - SECTION 123B-1  
HANCOCK COUNTY  
STATION 38+29.50  
STRUCTURE NO. 034-0522

SHEET NO. 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
23 SHEETS	506	123B-1	HANCOCK	70	35
					CONTRACT NO. 72992
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES**

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

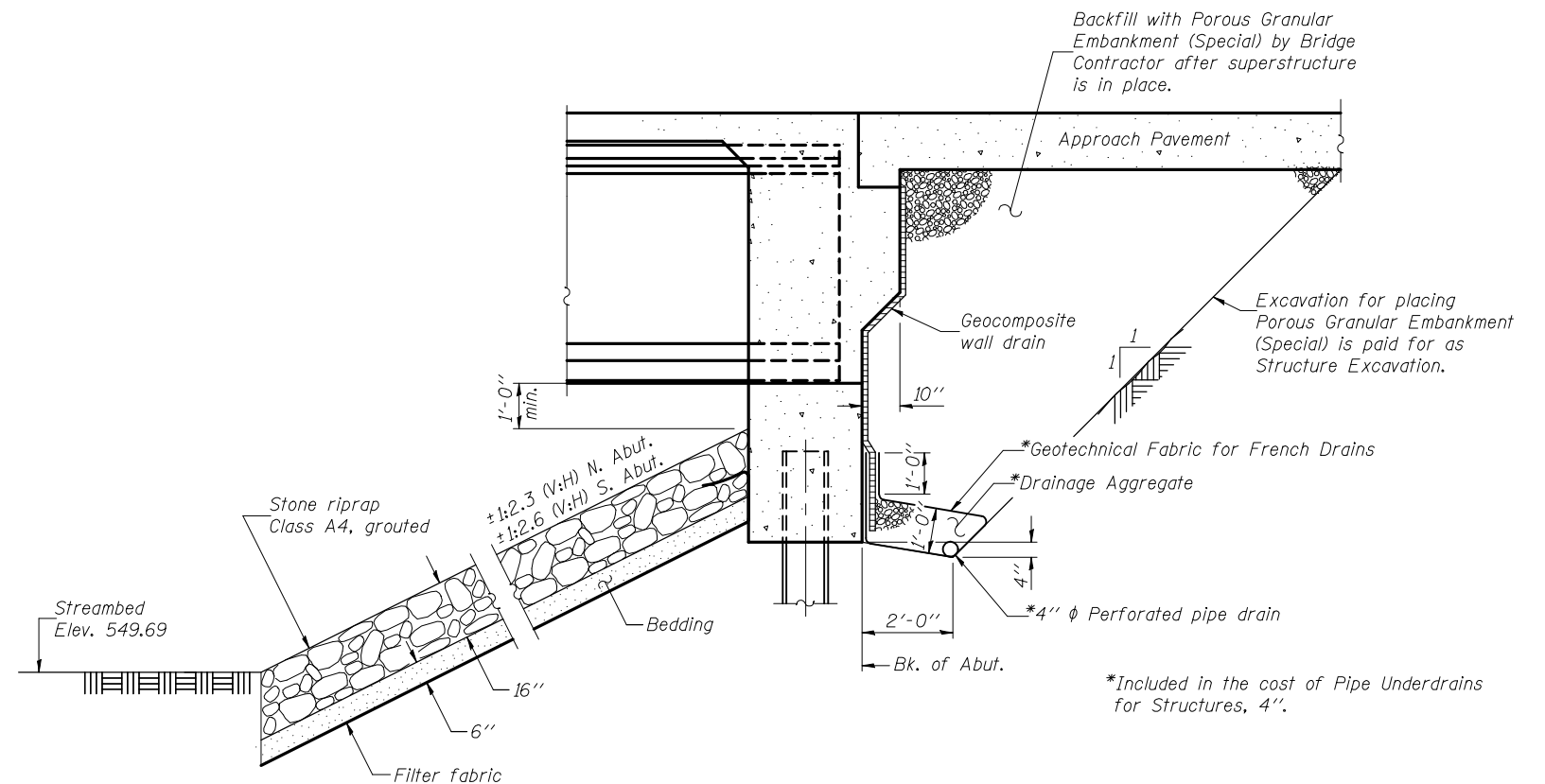
Reinforcement bars designated (E) shall be epoxy coated.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		192	192
Removal of Existing Structures	Each	1		1
Structure Excavation	Cu. Yd.		375.0	375.0
Concrete Structures	Cu. Yd.		68.5	68.5
Concrete Superstructure	Cu. Yd.	316.6		316.6
Bridge Deck Grooving	Sq. Yd.	664		664
Concrete Encasement	Cu. Yd.		6.6	6.6
Protective Coat	Sq. Yd.	830		830
Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams, 63"	Foot	793.5		793.5
Reinforcement Bars, Epoxy Coated	Pound	66410	5360	71770
Furnishing Steel Piles HP14x89	Foot		186	186
Setting Piles in Rock	Each		12	12
Temporary Soil Retention System	Sq. Ft.		1088	1088
Name Plates	Each	1		1
Bar Splicers	Each	570	104	674
Geocomposite Wall Drain	Sq. Yd.		78	78
Pipe Underdrains for Structures, 4"	Foot		165	165
Asbestos Bearing Pad Removal	Each	22		22



**SECTION THRU INTEGRAL ABUTMENT**

Note: All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the gouted riprap. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

\*Included in the cost of Pipe Underdrains for Structures, 4".

Note: For quantities of riprap Class 4, filter fabric, and grout for use with riprap, see Roadway Plans.

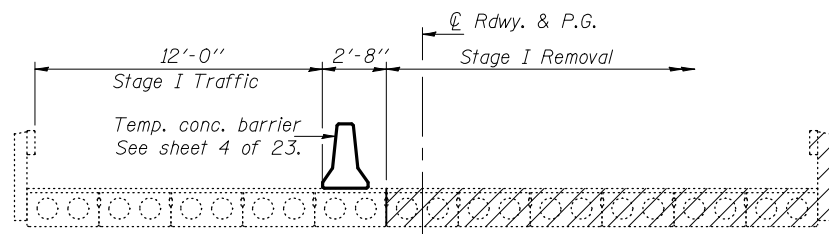
DESIGNED	Fess Teklehaimanot
CHECKED	Stephen M. Ryan
DRAWN	h.t. duong
CHECKED	FT/SMR

November 24, 2010  
 EXAMINED *Thomas J. Demagala*  
 ENGINEER OF BRIDGE DESIGN  
 PASSED *Ralph E. Anderson*  
 ENGINEER OF BRIDGES AND STRUCTURES

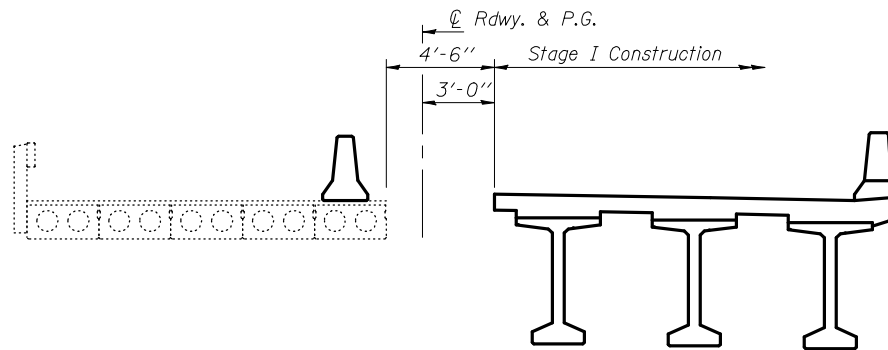
**GENERAL DATA**  
**STRUCTURE NO. 034-0522**

SHEET NO. 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	506	123B-1	HANCOCK	36	70
23 SHEETS	CONTRACT NO. 72992				
ILLINOIS FED. AID PROJECT					

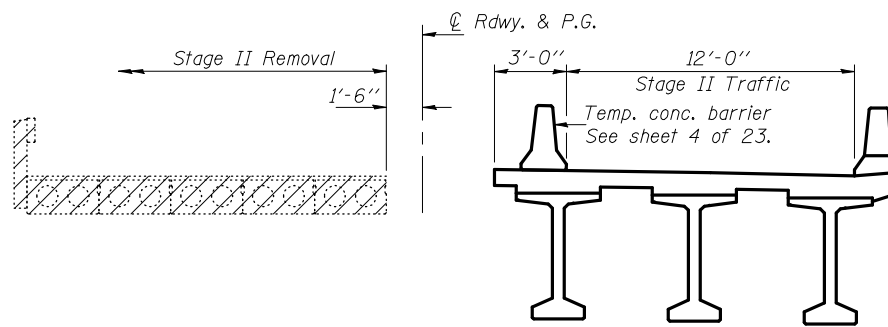
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



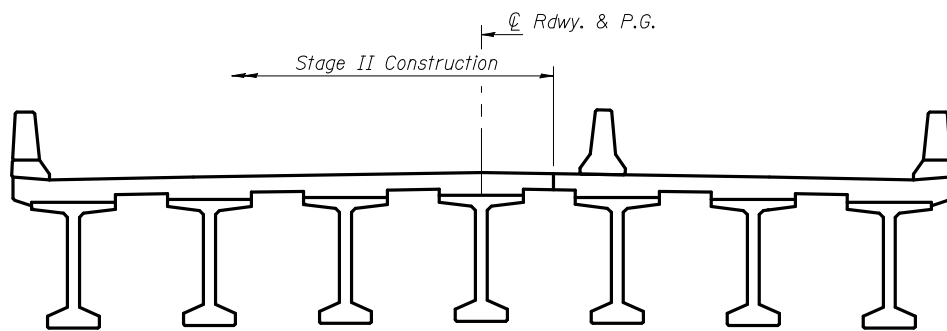
**STAGE I REMOVAL**



**STAGE I CONSTRUCTION**



**STAGE II REMOVAL**



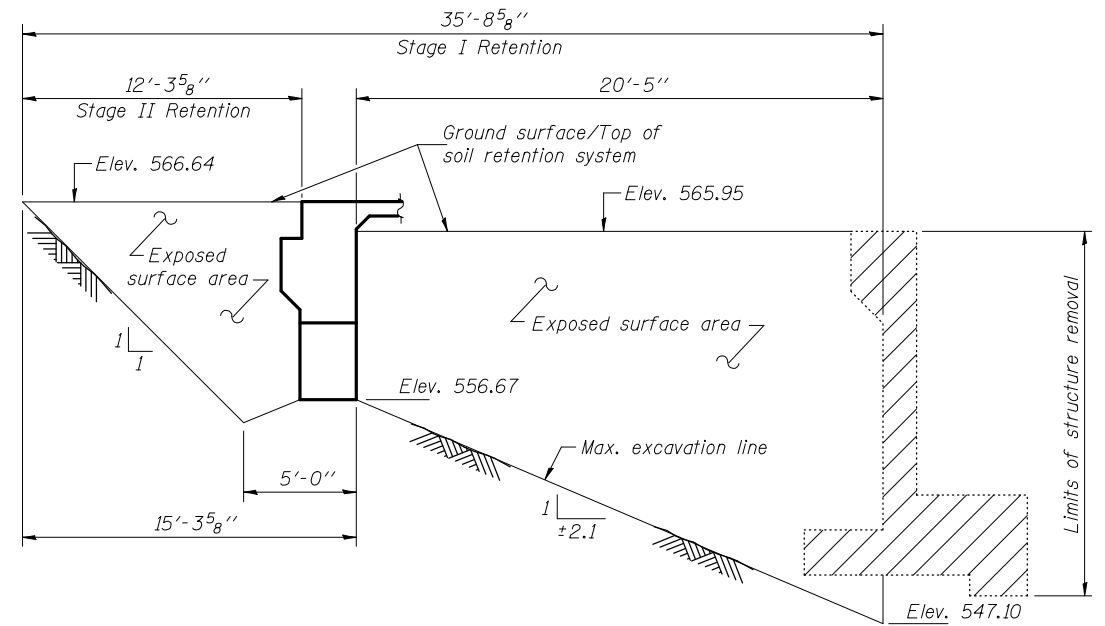
**STAGE II CONSTRUCTION**

Notes: Hatched area indicates Removal of Existing Structures.  
For quantity of Temporary Concrete Barrier, see Roadway Plans.  
All staging cross sections are looking south.

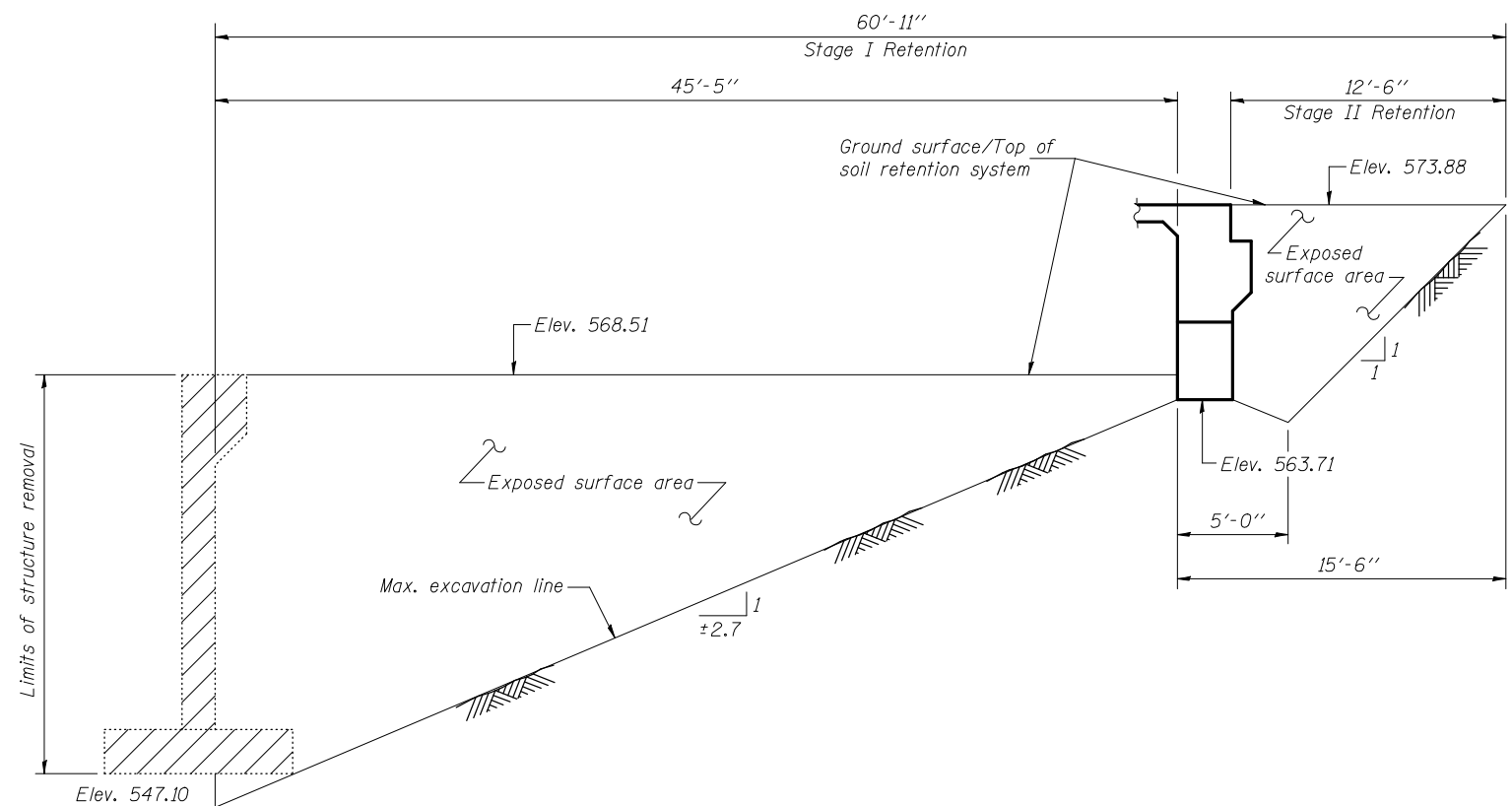
DESIGNED	Fess Teklehaimanot
CHECKED	Stephen M. Ryan
DRAWN	h.t. duong
CHECKED	FT/SMR

EXAMINED	November 24, 2010
PASSED	Thomas J. Domagalick ENGINEER OF BRIDGE DESIGN
	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

Note: A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.



**TEMPORARY SOIL RETENTION SYSTEM AT NORTH ABUTMENT**



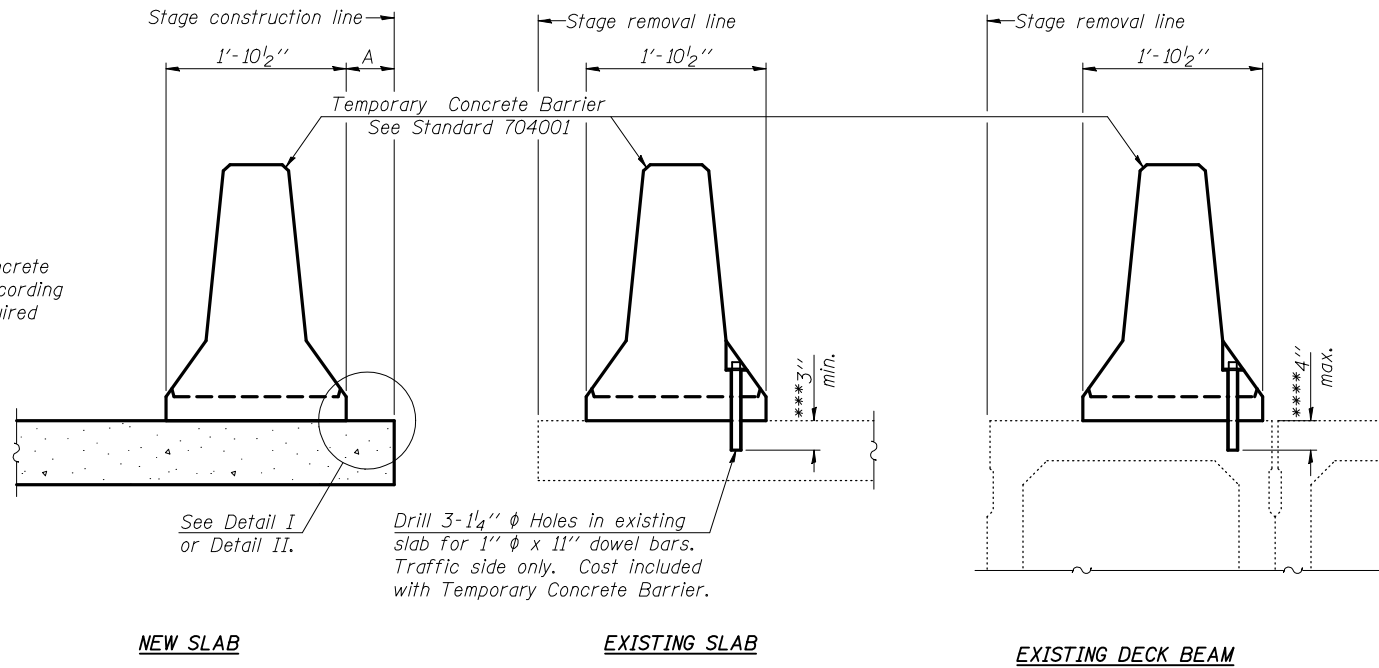
**TEMPORARY SOIL RETENTION SYSTEM AT SOUTH ABUTMENT**

**STAGE CONSTRUCTION DETAILS  
STRUCTURE NO. 034-0522**

SHEET NO. 3 23 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	506	123B-1	HANCOCK	37	70
CONTRACT NO. 72992					
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



**NOTES**

**Detail I - With Bar Splicer or Couplers:**  
Connect one (1) 1"x7"x10" steel  $\bar{P}$  to the top layer of couplers with 2-5/8"  $\phi$  bolts screwed to coupler at approximate  $\bar{C}$  of each barrier panel.

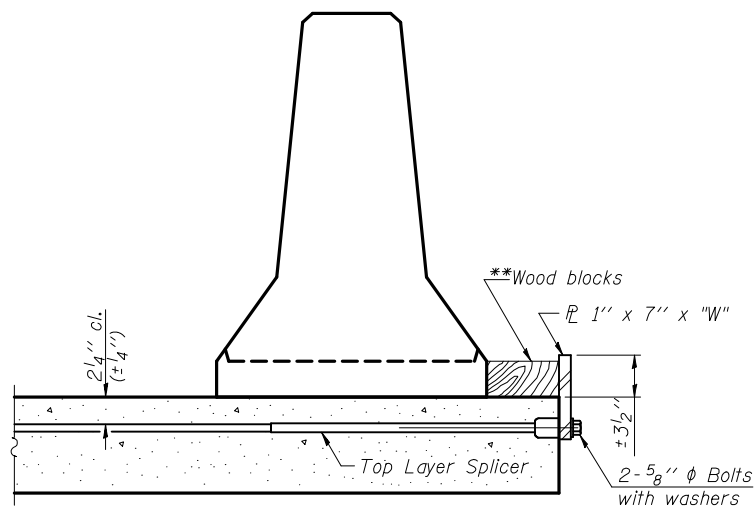
**Detail II - With Extended Reinforcement Bars:**  
Connect one (1) 1"x7"x10" steel  $\bar{P}$  to the concrete slab or concrete wearing surface with 2-5/8"  $\phi$  Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate  $\bar{C}$  of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

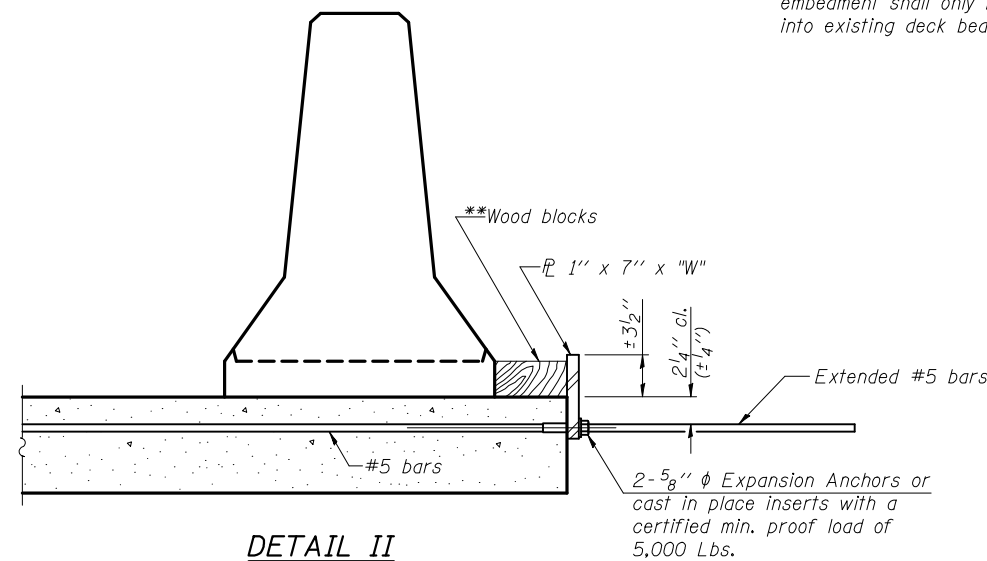
**SECTIONS THRU SLAB OR DECK BEAM**

\*\*\* Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

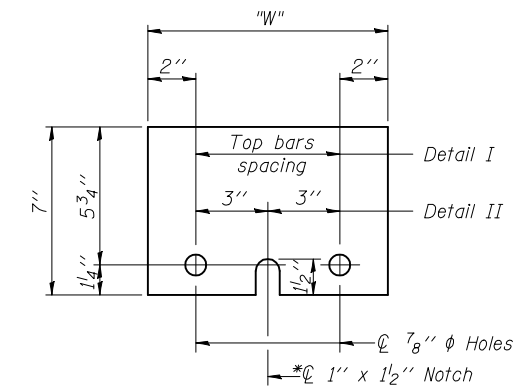
\*\*\*\* If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



**DETAIL I**



**DETAIL II**



**STEEL RETAINER  $\bar{P}$  1" x 7" x 10"**

\* Required only with Detail II

\*\* Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

DESIGNED	Fess Teklehaimanot
CHECKED	Stephen M. Ryan
DRAWN	h.t. duong
CHECKED	FT/SMR

EXAMINED	November 24, 2010
PASSED	Thomas J. Damagala ENGINEER OF BRIDGE DESIGN
	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

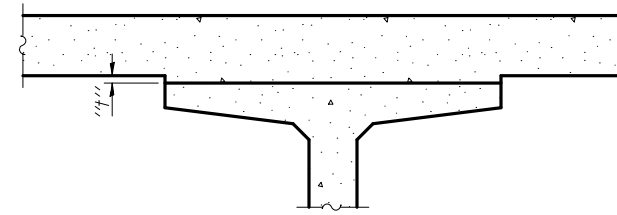
R-27

11-1-09

**TEMPORARY CONCRETE BARRIER  
FOR STAGE CONSTRUCTION  
STRUCTURE NO. 034-0522**

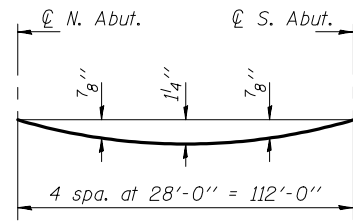
SHEET NO. 4 23 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	506	123B-1	HANCOCK	38	70
CONTRACT NO. 72992					
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown on sheets 6 & 7 of 23, minus 8" deck thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS

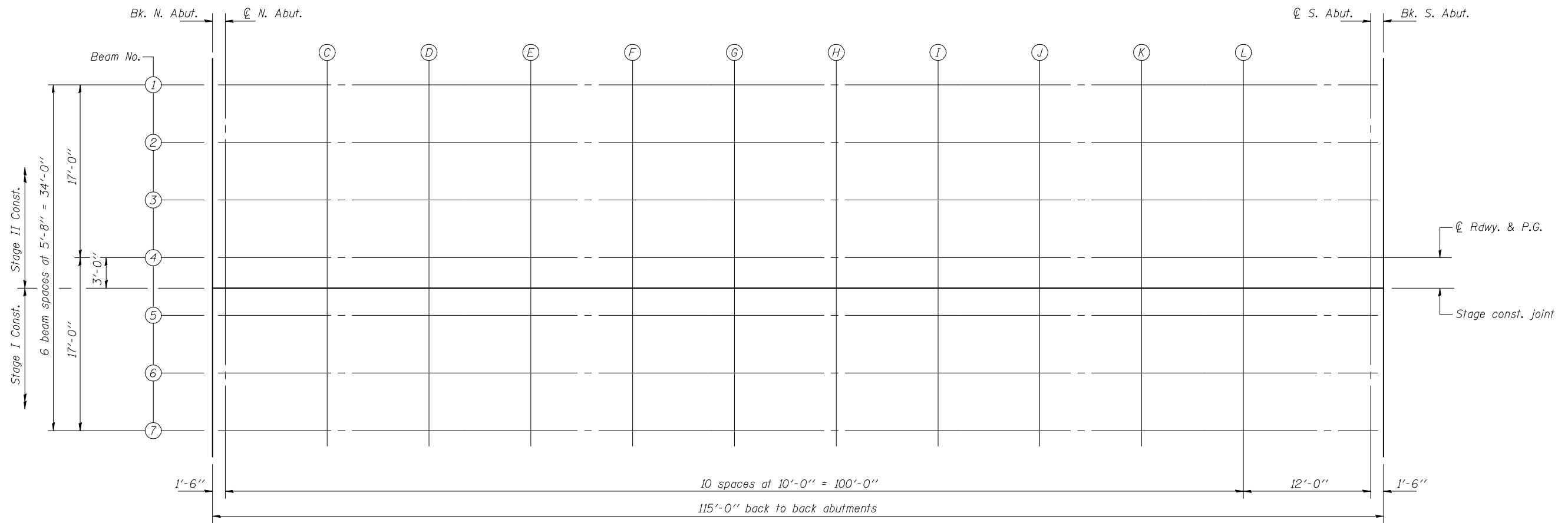
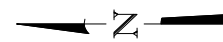


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete, excluding beams).

Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets 6 & 7 of 23.



PLAN

DESIGNED	Fess Teklehaimanot
CHECKED	Stephen M. Ryan
DRAWN	h.t. duong
CHECKED	FT/SMR

EXAMINED	November 24, 2010
PASSED	Thomas J. Demagala ENGINEER OF BRIDGE DESIGN
	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 034-0522

SHEET NO. 5	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	506	123B-1	HANCOCK	39	70
23 SHEETS	CONTRACT NO. 72992				
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**BEAM 1**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. of N. Abut.	37+72.00	-17.00	566.35	566.35
CL. N. Abut.	37+73.50	-17.00	566.45	566.45
C	37+83.50	-17.00	567.08	567.10
D	37+93.50	-17.00	567.71	567.76
E	38+03.50	-17.00	568.33	568.41
F	38+13.50	-17.00	568.96	569.05
G	38+23.50	-17.00	569.59	569.69
H	38+33.50	-17.00	570.22	570.32
I	38+43.50	-17.00	570.85	570.94
J	38+53.50	-17.00	571.48	571.56
K	38+63.50	-17.00	572.11	572.17
L	38+73.50	-17.00	572.74	572.77
CL. S. Abut.	38+85.50	-17.00	573.49	573.49
BK. of S. Abut.	38+87.00	-17.00	573.59	573.59

**BEAM 2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. of N. Abut.	37+72.00	-11.33	566.47	566.47
CL. N. Abut.	37+73.50	-11.33	566.56	566.56
C	37+83.50	-11.33	567.19	567.22
D	37+93.50	-11.33	567.82	567.87
E	38+03.50	-11.33	568.45	568.53
F	38+13.50	-11.33	569.08	569.17
G	38+23.50	-11.33	569.71	569.81
H	38+33.50	-11.33	570.34	570.44
I	38+43.50	-11.33	570.96	571.06
J	38+53.50	-11.33	571.59	571.67
K	38+63.50	-11.33	572.22	572.28
L	38+73.50	-11.33	572.85	572.88
CL. S. Abut.	38+85.50	-11.33	573.61	573.61
BK. of S. Abut.	38+87.00	-11.33	573.70	573.70

**BEAM 3**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. of N. Abut.	37+72.00	-5.67	566.56	566.56
CL. N. Abut.	37+73.50	-5.67	566.65	566.65
C	37+83.50	-5.67	567.28	567.31
D	37+93.50	-5.67	567.91	567.96
E	38+03.50	-5.67	568.54	568.62
F	38+13.50	-5.67	569.17	569.25
G	38+23.50	-5.67	569.80	569.89
H	38+33.50	-5.67	570.42	570.53
I	38+43.50	-5.67	571.05	571.14
J	38+53.50	-5.67	571.68	571.76
K	38+63.50	-5.67	572.31	572.37
L	38+73.50	-5.67	572.94	572.97
CL. S. Abut.	38+85.50	-5.67	573.70	573.70
BK. of S. Abut.	38+87.00	-5.67	573.79	573.79

**BEAM 4, C ROADWAY & PROFILE GRADE**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. of N. Abut.	37+72.00	0.00	566.64	566.64
CL. N. Abut.	37+73.50	0.00	566.74	566.74
C	37+83.50	0.00	567.37	567.39
D	37+93.50	0.00	568.00	568.05
E	38+03.50	0.00	568.63	568.70
F	38+13.50	0.00	569.25	569.34
G	38+23.50	0.00	569.88	569.98
H	38+33.50	0.00	570.51	570.61
I	38+43.50	0.00	571.14	571.23
J	38+53.50	0.00	571.77	571.85
K	38+63.50	0.00	572.40	572.46
L	38+73.50	0.00	573.03	573.06
CL. S. Abut.	38+85.50	0.00	573.78	573.78
BK. of S. Abut.	38+87.00	0.00	573.88	573.88

DESIGNED *Fess Teklehaimanot*  
 CHECKED *Stephen M. Ryan*  
 DRAWN *h.t. duong*  
 CHECKED *FT/SMR*

November 24, 2010  
 EXAMINED *Thomas J. Demagala*  
 ENGINEER OF BRIDGE DESIGN  
 PASSED *Ralph E. Anderson*  
 ENGINEER OF BRIDGES AND STRUCTURES

**TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 034-0522**

SHEET NO. 6  23 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	506	123B-1	HANCOCK	40	70
CONTRACT NO. 72992					
ILLINOIS FED. AID PROJECT					



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. of N. Abut.	37+72.00	3.00	566.60	566.60
CL. N. Abut.	37+73.50	3.00	566.69	566.69
C	37+83.50	3.00	567.32	567.35
D	37+93.50	3.00	567.95	568.00
E	38+03.50	3.00	568.58	568.66
F	38+13.50	3.00	569.21	569.30
G	38+23.50	3.00	569.84	569.94
H	38+33.50	3.00	570.47	570.57
I	38+43.50	3.00	571.09	571.19
J	38+53.50	3.00	571.72	571.80
K	38+63.50	3.00	572.35	572.41
L	38+73.50	3.00	572.98	573.01
CL. S. Abut.	38+85.50	3.00	573.74	573.74
BK. of S. Abut.	38+87.00	3.00	573.83	573.83

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. of N. Abut.	37+72.00	5.67	566.56	566.56
CL. N. Abut.	37+73.50	5.67	566.65	566.65
C	37+83.50	5.67	567.28	567.31
D	37+93.50	5.67	567.91	567.96
E	38+03.50	5.67	568.54	568.62
F	38+13.50	5.67	569.17	569.25
G	38+23.50	5.67	569.80	569.89
H	38+33.50	5.67	570.42	570.53
I	38+43.50	5.67	571.05	571.14
J	38+53.50	5.67	571.68	571.76
K	38+63.50	5.67	572.31	572.37
L	38+73.50	5.67	572.94	572.97
CL. S. Abut.	38+85.50	5.67	573.70	573.70
BK. of S. Abut.	38+87.00	5.67	573.79	573.79

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. of N. Abut.	37+72.00	11.33	566.47	566.47
CL. N. Abut.	37+73.50	11.33	566.56	566.56
C	37+83.50	11.33	567.19	567.22
D	37+93.50	11.33	567.82	567.87
E	38+03.50	11.33	568.45	568.53
F	38+13.50	11.33	569.08	569.17
G	38+23.50	11.33	569.71	569.81
H	38+33.50	11.33	570.34	570.44
I	38+43.50	11.33	570.96	571.06
J	38+53.50	11.33	571.59	571.67
K	38+63.50	11.33	572.22	572.28
L	38+73.50	11.33	572.85	572.88
CL. S. Abut.	38+85.50	11.33	573.61	573.61
BK. of S. Abut.	38+87.00	11.33	573.70	573.70

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. of N. Abut.	37+72.00	17.00	566.35	566.35
CL. N. Abut.	37+73.50	17.00	566.45	566.45
C	37+83.50	17.00	567.08	567.10
D	37+93.50	17.00	567.71	567.76
E	38+03.50	17.00	568.33	568.41
F	38+13.50	17.00	568.96	569.05
G	38+23.50	17.00	569.59	569.69
H	38+33.50	17.00	570.22	570.32
I	38+43.50	17.00	570.85	570.94
J	38+53.50	17.00	571.48	571.56
K	38+63.50	17.00	572.11	572.17
L	38+73.50	17.00	572.74	572.77
CL. S. Abut.	38+85.50	17.00	573.49	573.49
BK. of S. Abut.	38+87.00	17.00	573.59	573.59

DESIGNED	Fess Teklehaimanot
CHECKED	Stephen M. Ryan
DRAWN	h.t. duong
CHECKED	FT/SMR

November 24, 2010

EXAMINED *Thomas J. Demagala*  
ENGINEER OF BRIDGE DESIGN

PASSED *Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES

TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 034-0522

SHEET NO. 7	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	506	123B-1	HANCOCK	41	70
23 SHEETS	CONTRACT NO. 72992				
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
North end of N. Appr. Slab	37+42.00	-18.00	564.57
A	37+52.00	-18.00	565.12
B	37+62.00	-18.00	565.71
South end of N. Appr. Slab	37+72.00	-18.00	566.32

EAST EDGE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations
North end of N. Appr. Slab	37+42.00	-12.00	564.69
A	37+52.00	-12.00	565.24
B	37+62.00	-12.00	565.83
South end of N. Appr. Slab	37+72.00	-12.00	566.45

CL ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
North end of N. Appr. Slab	37+42.00	0.00	564.88
A	37+52.00	0.00	565.43
B	37+62.00	0.00	566.02
South end of N. Appr. Slab	37+72.00	0.00	566.64

STAGE CONSTRUCTION JOINT

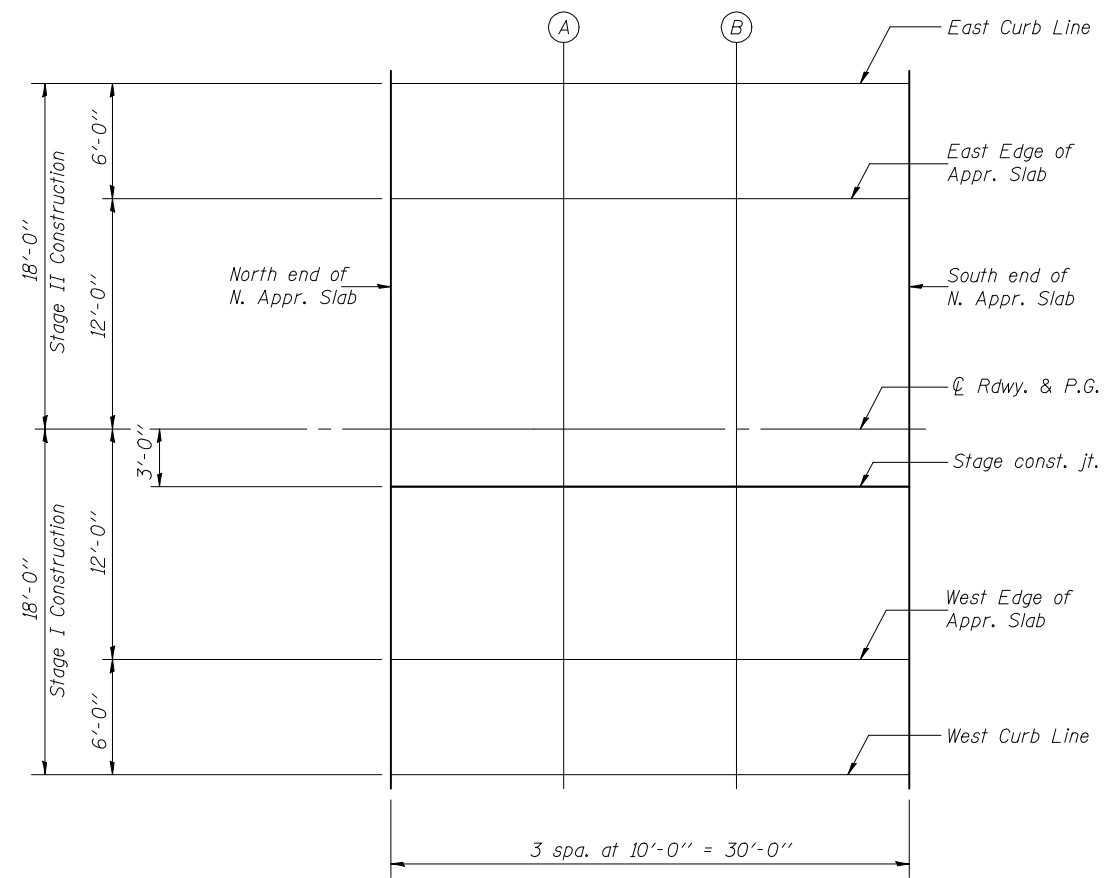
Location	Station	Offset	Theoretical Grade Elevations
North end of N. Appr. Slab	37+42.00	3.00	564.83
A	37+52.00	3.00	565.38
B	37+62.00	3.00	565.98
South end of N. Appr. Slab	37+72.00	3.00	566.59

WEST EDGE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations
North end of N. Appr. Slab	37+42.00	12.00	564.69
A	37+52.00	12.00	565.24
B	37+62.00	12.00	565.83
South end of N. Appr. Slab	37+72.00	12.00	566.45

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
North end of N. Appr. Slab	37+42.00	18.00	564.57
A	37+52.00	18.00	565.12
B	37+62.00	18.00	565.71
South end of N. Appr. Slab	37+72.00	18.00	566.32



PLAN

DESIGNED	Fess Teklehaimanot
CHECKED	Stephen M. Ryan
DRAWN	h.t. duong
CHECKED	FT/SMR

EXAMINED	Thomas J. Demagala ENGINEER OF BRIDGE DESIGN
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

November 24, 2010

TOP OF NORTH APPROACH SLAB ELEVATIONS  
STRUCTURE NO. 034-0522

SHEET NO. 8 23 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	506	123B-1	HANCOCK	42	70
CONTRACT NO. 72992					
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
North end of S. Appr. Slab	38+87.00	-18.00	573.57
M	38+97.00	-18.00	574.19
N	39+07.00	-18.00	574.82
South end of S. Appr. Slab	39+17.00	-18.00	575.45

EAST EDGE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations
North end of S. Appr. Slab	38+87.00	-12.00	573.69
M	38+97.00	-12.00	574.32
N	39+07.00	-12.00	574.95
South end of S. Appr. Slab	39+17.00	-12.00	575.58

☉ ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
North end of S. Appr. Slab	38+87.00	0.00	573.88
M	38+97.00	0.00	574.51
N	39+07.00	0.00	575.14
South end of S. Appr. Slab	39+17.00	0.00	575.76

STAGE CONSTRUCTION JOINT

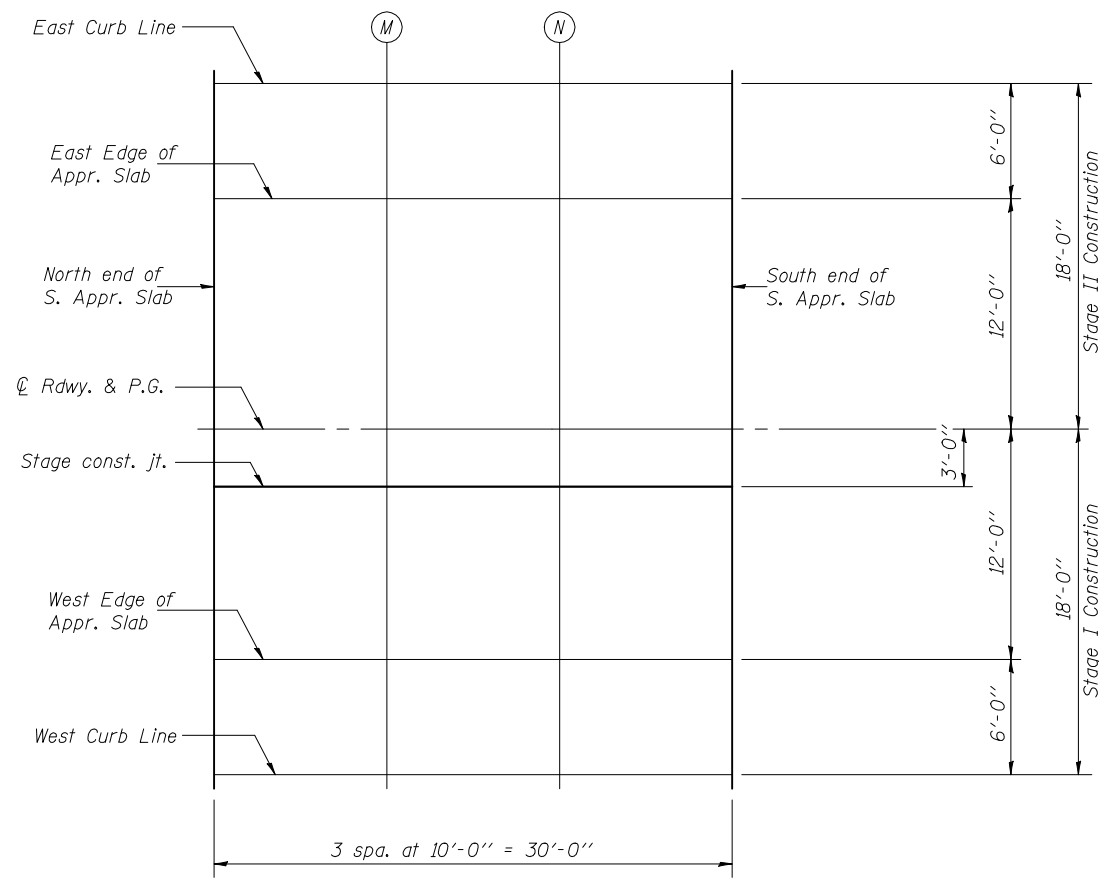
Location	Station	Offset	Theoretical Grade Elevations
North end of S. Appr. Slab	38+87.00	3.00	573.83
M	38+97.00	3.00	574.46
N	39+07.00	3.00	575.09
South end of S. Appr. Slab	39+17.00	3.00	575.72

WEST EDGE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations
North end of S. Appr. Slab	38+87.00	12.00	573.69
M	38+97.00	12.00	574.32
N	39+07.00	12.00	574.95
South end of S. Appr. Slab	39+17.00	12.00	575.58

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
North end of S. Appr. Slab	38+87.00	18.00	573.57
M	38+97.00	18.00	574.19
N	39+07.00	18.00	574.82
South end of S. Appr. Slab	39+17.00	18.00	575.45



PLAN

DESIGNED	Fess Teklehaimanot
CHECKED	Stephen M. Ryan
DRAWN	h.t. duong
CHECKED	FT/SMR

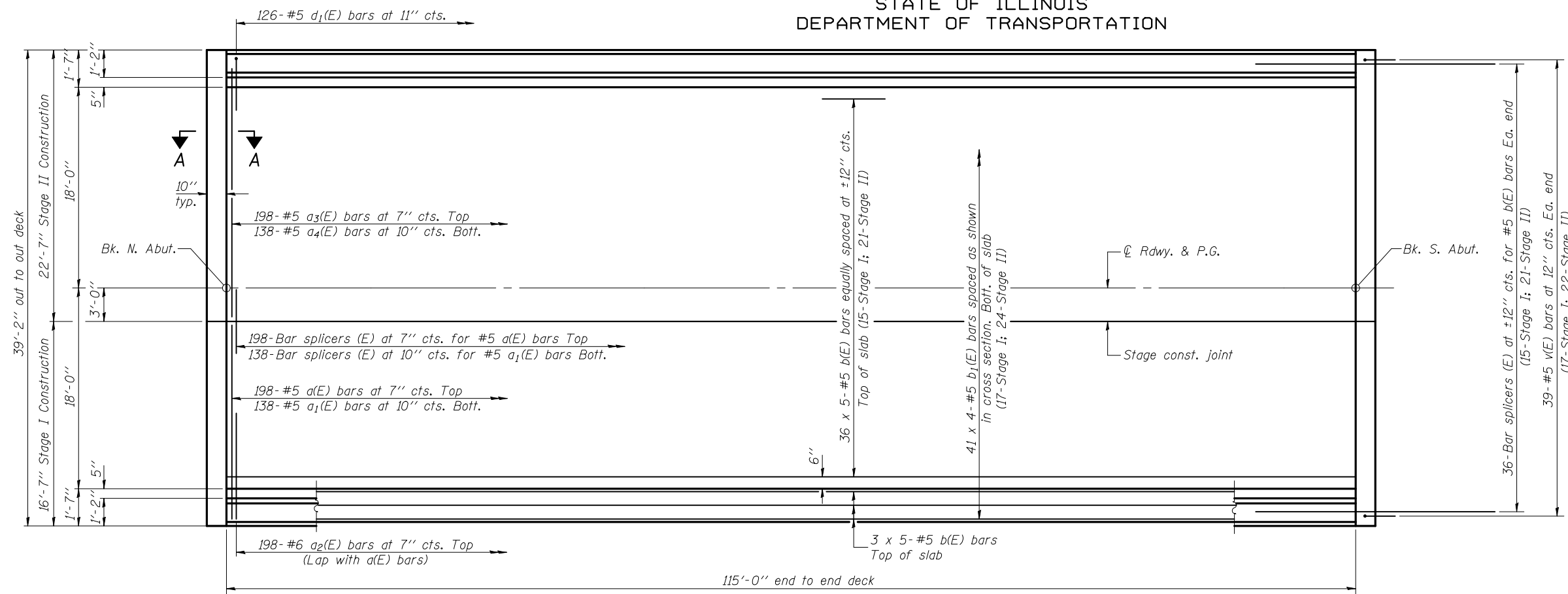
November 24, 2010

EXAMINED	Thomas J. Demagala ENGINEER OF BRIDGE DESIGN
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

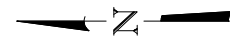
TOP OF SOUTH APPROACH SLAB ELEVATIONS  
STRUCTURE NO. 034-0522

SHEET NO. 9	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	506	123B-1	HANCOCK	43	70
23 SHEETS	CONTRACT NO. 72992				
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

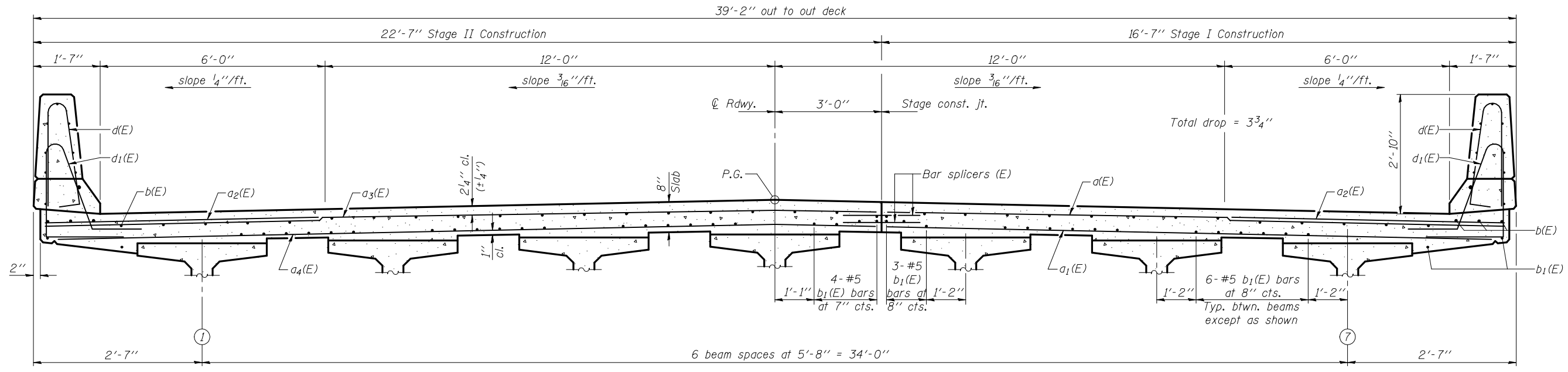


**MIN. BAR LAP**  
#5 bar = 2'-7"



Notes:  
See sheet 11 of 23 for superstructure details and Bill of Material.  
For Section A-A and diaphragm details see sheet 12 of 23.  
Bars indicated thus 36 x 5-#5 etc. indicates 36 lines of bars with 5 lengths per line.  
See sheet 11 of 23 for parapet reinforcement.

**PLAN**



**CROSS SECTION**  
(Looking south)

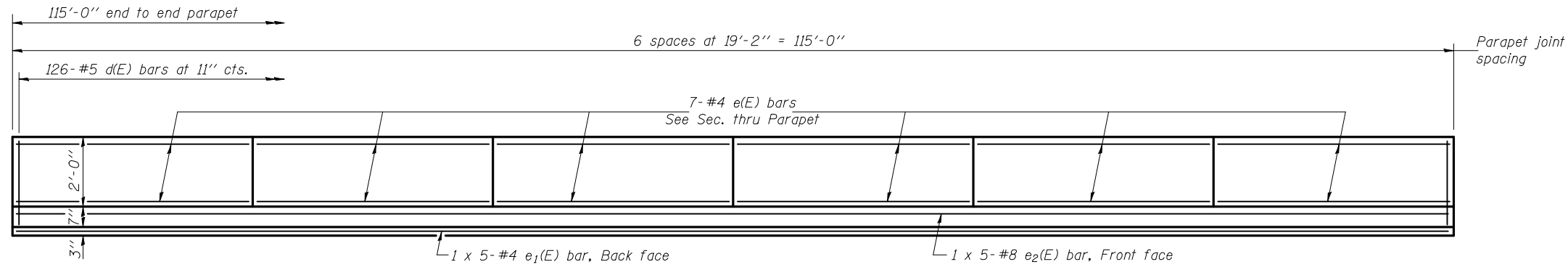
DESIGNED	Fess Teklehaimanot
CHECKED	Stephen M. Ryan
DRAWN	h.t. duong
CHECKED	FT/SMR

November 24, 2010  
 EXAMINED *Thomas J. Demagala*  
 ENGINEER OF BRIDGE DESIGN  
 PASSED *Ralph E. Anderson*  
 ENGINEER OF BRIDGES AND STRUCTURES

**SUPERSTRUCTURE  
STRUCTURE NO. 034-0522**

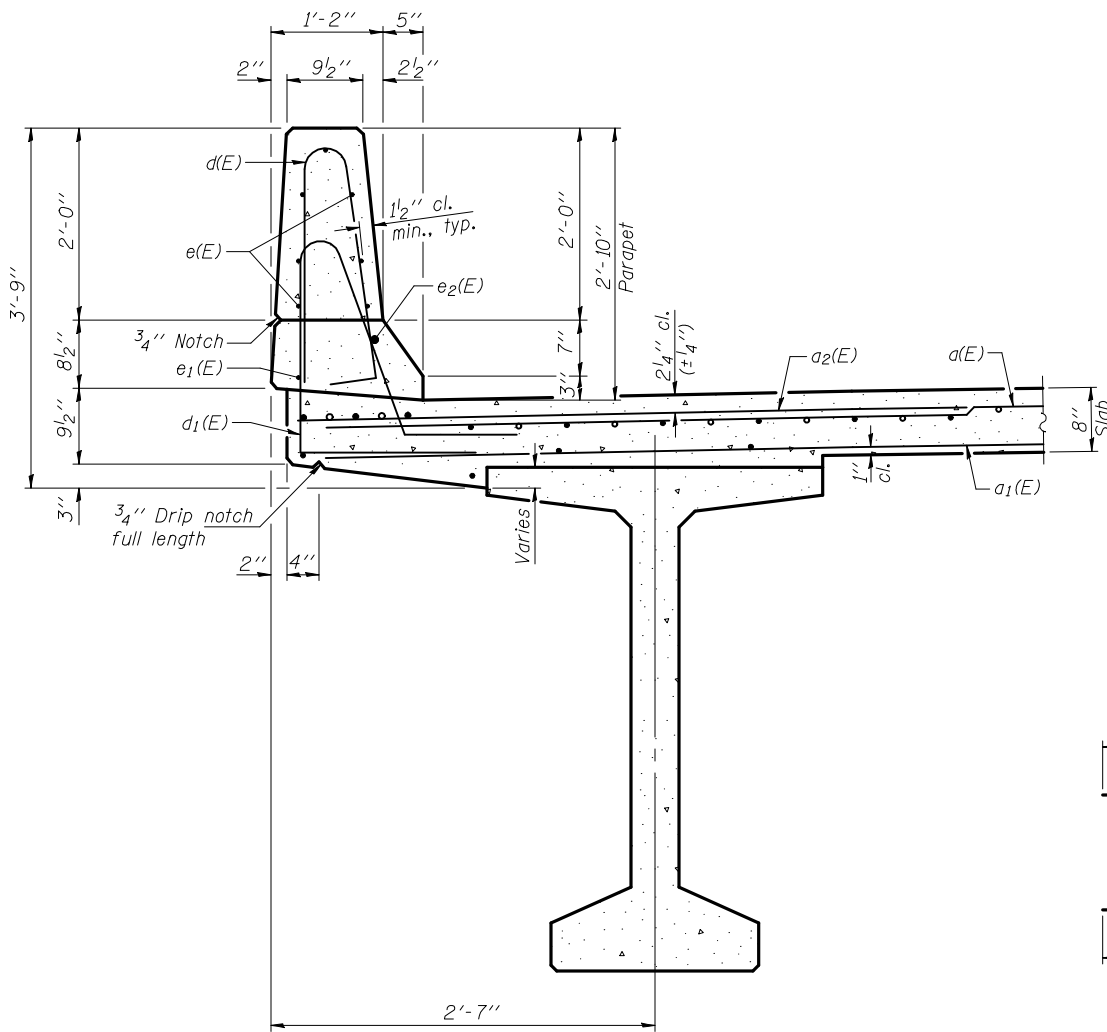
SHEET NO. 10  23 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	506	123B-1	HANCOCK	44	70
CONTRACT NO. 72992					
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

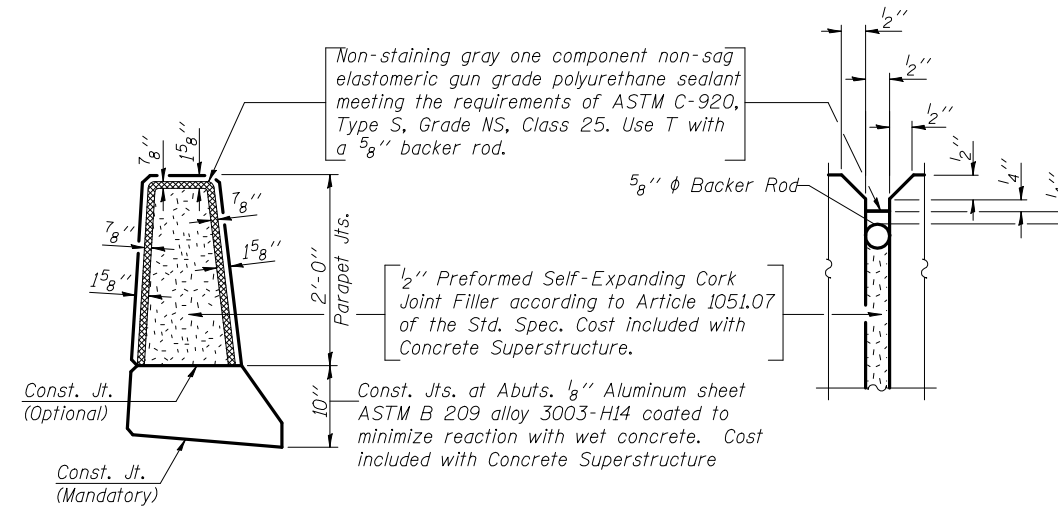


INSIDE ELEVATION OF PARAPET

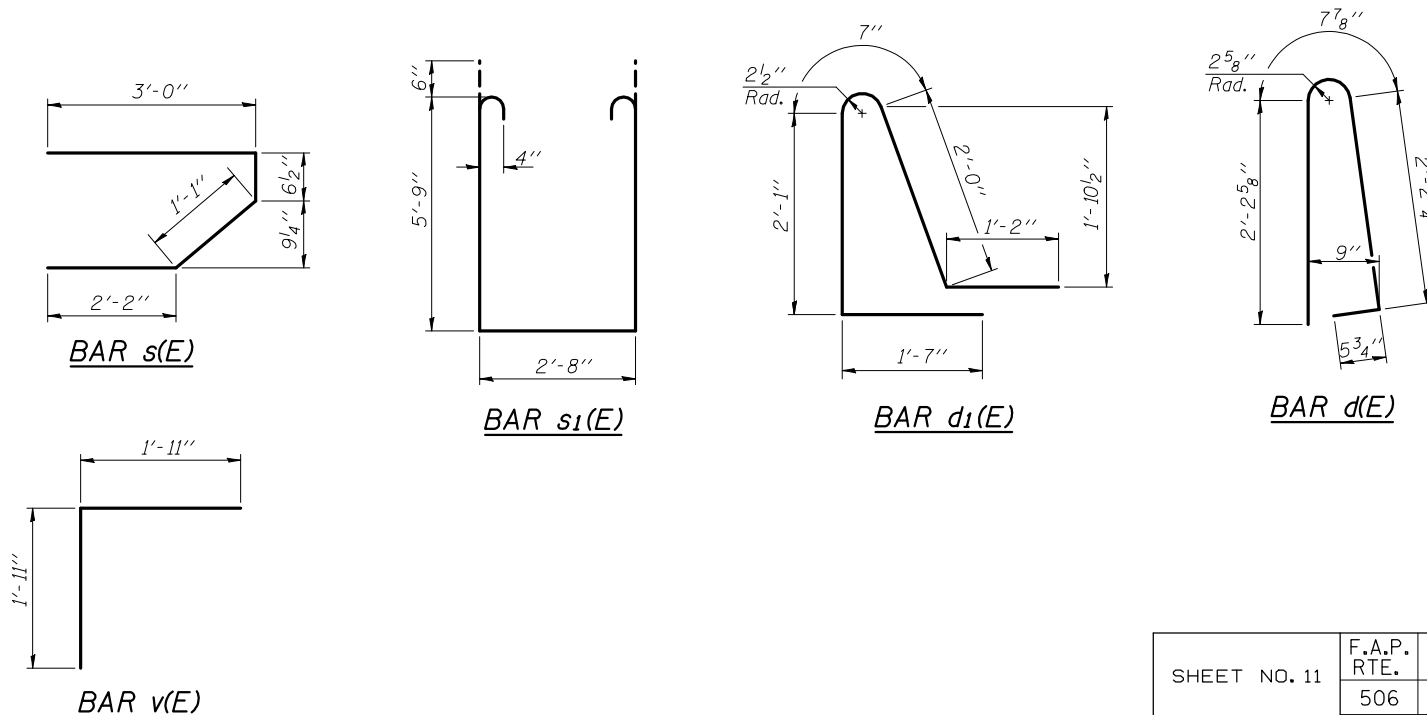
**MINIMUM BAR LAP**  
(Parapet)  
#4 bar = 2'-0"  
#8 bar = 5'-2"



SECTION THRU PARAPET



PARAPET JOINT DETAILS



**SUPERSTRUCTURE  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	198	#5	16'-1"	—
a1(E)	138	#5	15'-6"	—
a2(E)	396	#6	6'-6"	—
a3(E)	198	#5	22'-1"	—
a4(E)	138	#5	21'-6"	—
b(E)	210	#5	25'-0"	—
b1(E)	164	#5	30'-8"	—
d(E)	252	#5	5'-7"	┌
d1(E)	252	#5	7'-5"	┌
e(E)	84	#4	18'-10"	—
e1(E)	10	#4	24'-7"	—
e2(E)	10	#8	27'-1"	—
m(E)	12	#6	16'-3"	—
m1(E)	30	#6	9'-0"	—
m2(E)	10	#6	3'-3"	—
m3(E)	6	#6	1'-3"	—
m4(E)	2	#6	1'-8"	—
m5(E)	6	#6	7'-0"	—
m6(E)	6	#6	7'-3"	—
m7(E)	12	#6	22'-3"	—
s(E)	72	#5	6'-10"	┘
s1(E)	48	#4	15'-2"	┘
v(E)	78	#5	3'-10"	└
Reinforcement Bars, Epoxy Coated			Lbs.	35760
Concrete Superstructure			Cu. Yds.	193.0

Bars indicated thus 1 x 5-#8 etc. indicates 1 line of bars with 5 lengths per line.

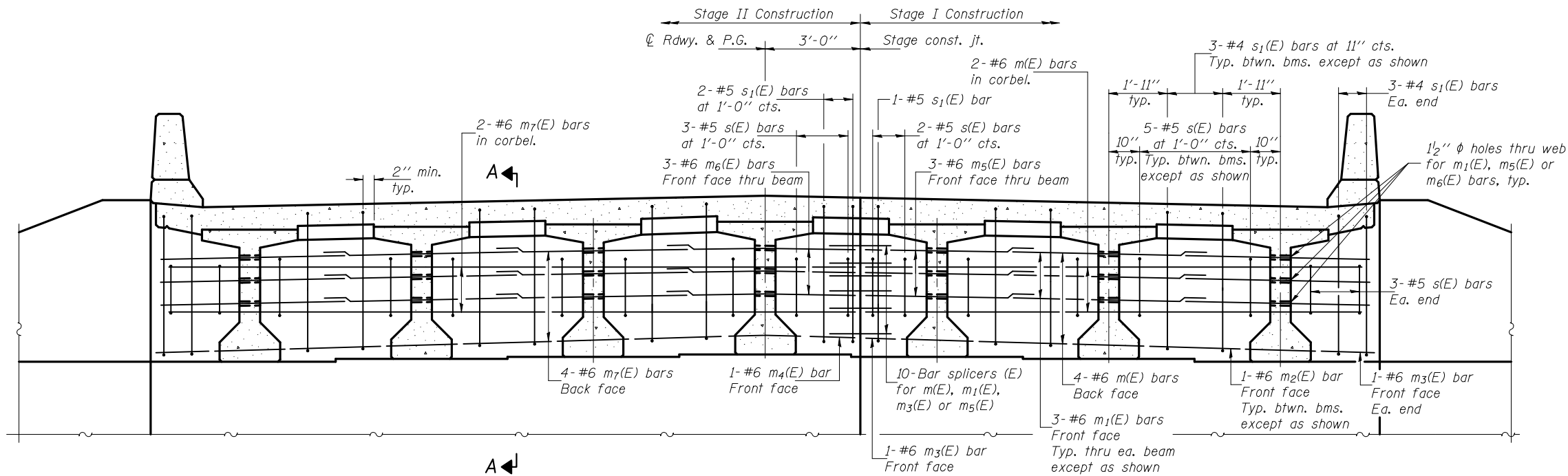
**SUPERSTRUCTURE DETAILS  
STRUCTURE NO. 034-0522**

DESIGNED *Fess Teklehaimanot*  
CHECKED *Stephen M. Ryan*  
DRAWN *h.t. duong*  
CHECKED *FT/SMR*

November 24, 2010  
EXAMINED *Thomas J. Domagala*  
PASSED *Ralph E. Anderson*  
ENGINEER OF BRIDGE DESIGN  
ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. 11 23 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	506	123B-1	HANCOCK	45	70
CONTRACT NO. 72992					
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

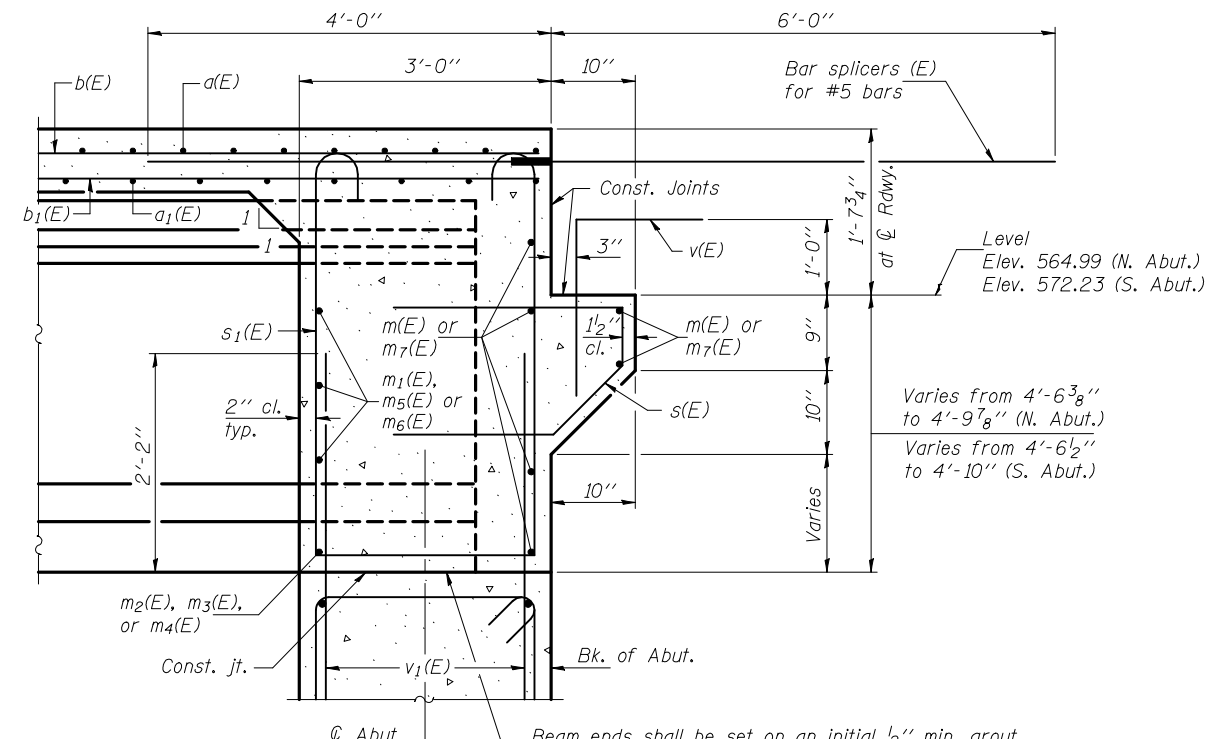


**MIN. BAR LAP**  
#6 bar = 3'-4"

**DIAPHRAGM ELEVATION AT SOUTH ABUTMENT**

(Looking south - North abutment similar)

Notes: Reinforcement bars in diaphragm are billed with superstructure on sheet 11 of 23.  
Concrete in diaphragm is included with Concrete Superstructure on sheet 11 of 23.  
For details of bars s(E), s<sub>1</sub>(E) and s<sub>2</sub>(E) see sheet 11 of 23.  
The s(E), s<sub>1</sub>(E) and s<sub>2</sub>(E) bars shall be placed parallel to the beams.  
Spacing for these bars shall be at right angles to the beams.



Beam ends shall be set on an initial 1/2" min. grout (2:1 sand and portland cement, very dry mix) to provide full bearing. Any excess grout squeezed out from under the beam shall be removed. Cost included with Concrete Structures.

**SECTION A-A**

**DIAPHRAGM DETAILS  
STRUCTURE NO. 034-0522**

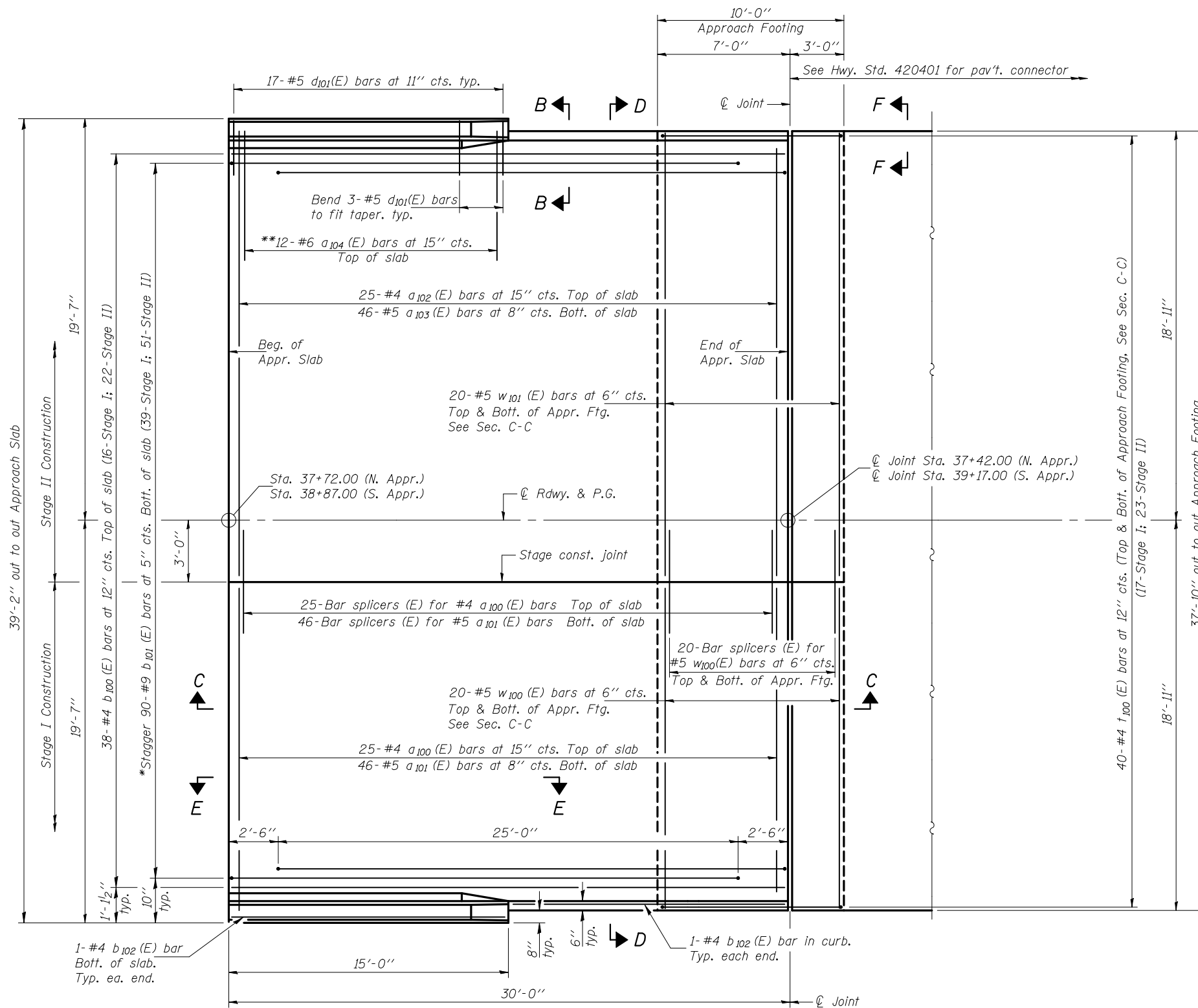
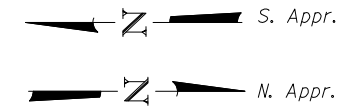
DESIGNED	Fess Teklehaimanot
CHECKED	Stephen M. Ryan
DRAWN	h.t. duong
CHECKED	FT/SMR

November 24, 2010  
EXAMINED *Thomas J. Domagala*  
PASSED *Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. 12 23 SHEETS	F.A.P. RTE. 506	SECTION 123B-1	COUNTY HANCOCK	TOTAL SHEETS 46	SHEET NO. 70
	CONTRACT NO. 72992				
ILLINOIS FED. AID PROJECT					

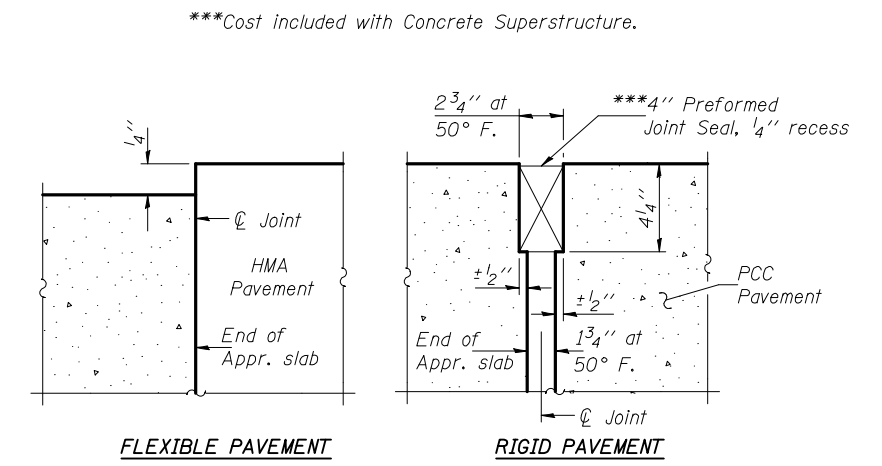
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Notes: See sheet 14 of 23 for Sections C-C & D-D and View E-E.  
a<sub>100</sub> (E), a<sub>101</sub> (E), a<sub>102</sub> (E), a<sub>103</sub> (E) and w<sub>100</sub> (E) bar spacings measured perpendicular to  $\perp$  Rdwy.

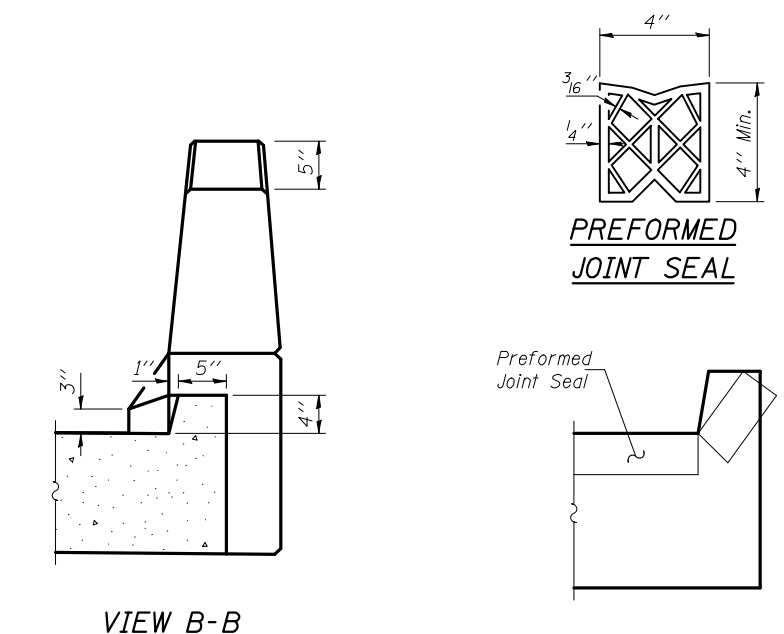


**PLAN**

(South Approach shown - North Approach similar by mirror image)



**DETAIL A**



**VIEW B-B**

**VIEW F-F**

Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.

DESIGNED	Fess Teklehaimanot
CHECKED	Stephen M. Ryan
DRAWN	h.t. duong
CHECKED	FT/SMR

EXAMINED	Thomas J. Domagala	November 24, 2010
PASSED	Ralph E. Anderson	

\*Tilt #9 b<sub>101</sub> (E) bars as required to maintain clearance.  
\*\*Spaced between a<sub>100</sub> (E) & a<sub>102</sub> (E) bars, typ. ea. parapet.

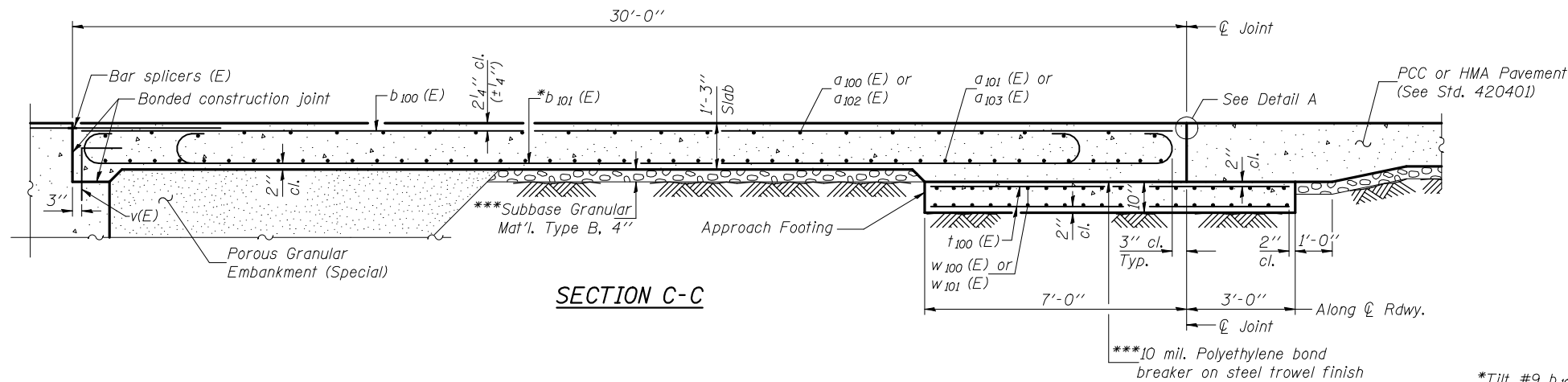
**BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 034-0522**

SHEET NO. 13 23 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	506	123B-1	HANCOCK	47	70
CONTRACT NO. 72992					
ILLINOIS FED. AID PROJECT					

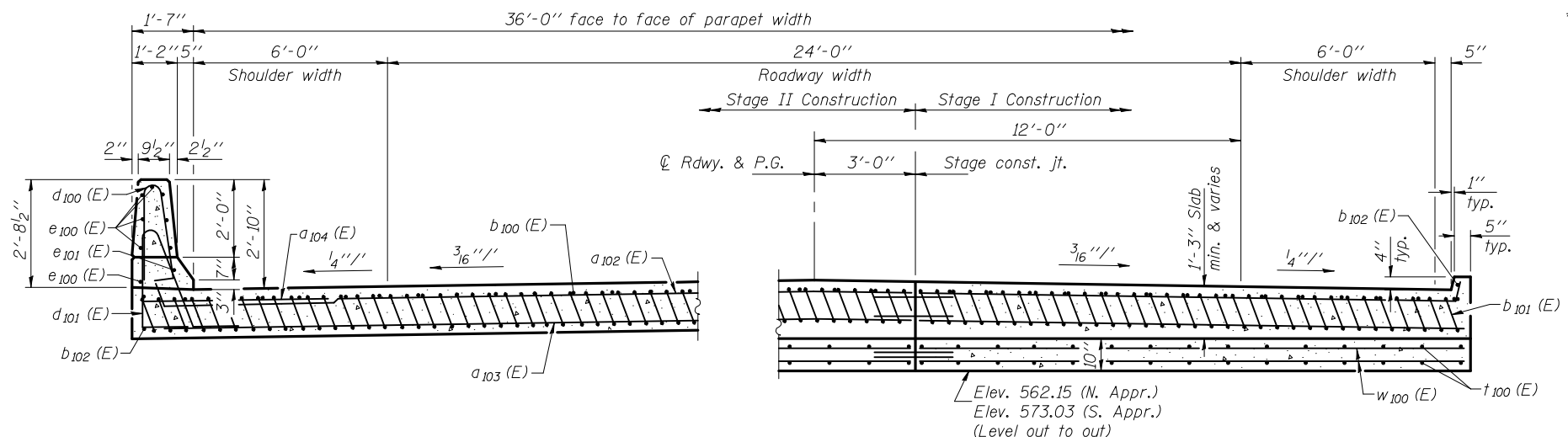
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Notes:

See sheet 13 of 23 for Detail A and View B-B.  
Approach slab and parapet concrete shall be paid for as Concrete Superstructure.  
Approach footing concrete shall be paid for as Concrete Structures.  
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.  
For v(E) bar details, see sheet 11 of 23.  
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.  
For bar splicer details, see sheet 20 of 23.  
Cost of excavation for approach footing included with Concrete Structures.  
For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 23.  
For additional parapet details, see sheet 11 of 23.



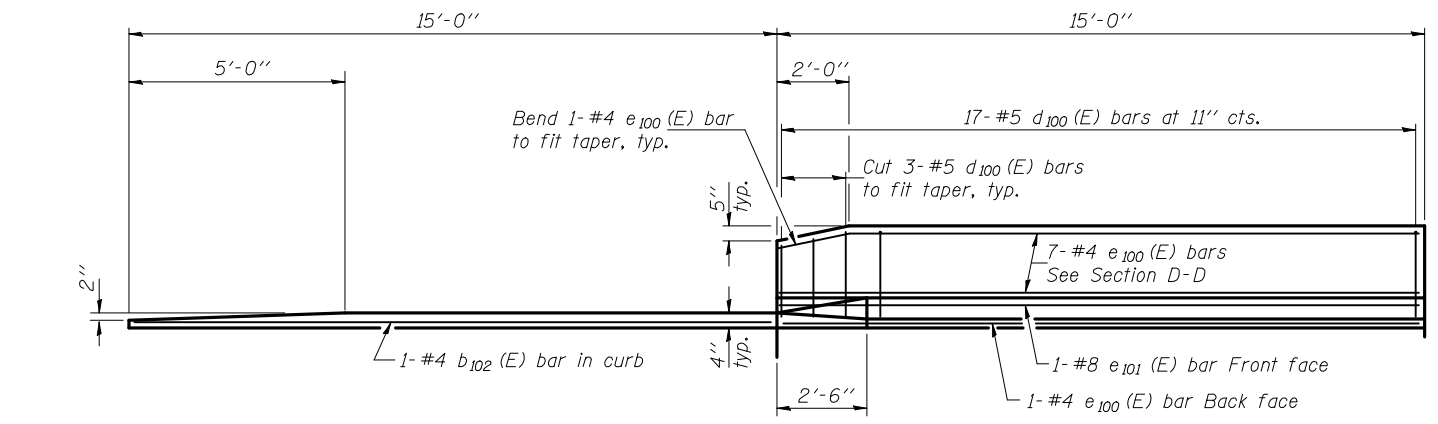
SECTION C-C



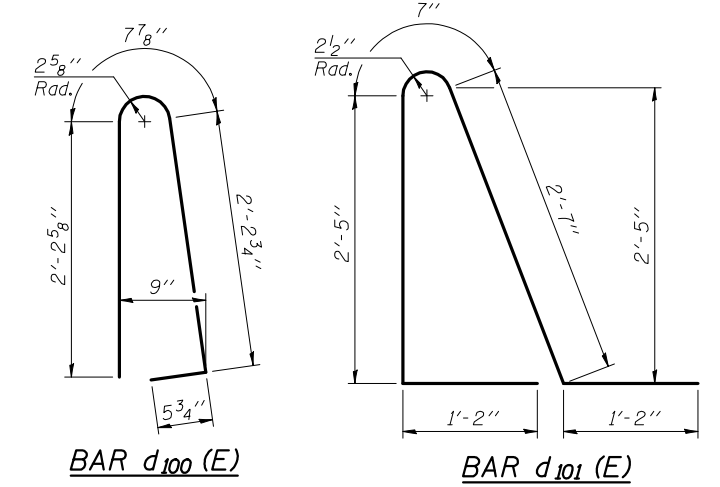
NEAR ABUTMENT

SECTION D-D

AT APPROACH FOOTING



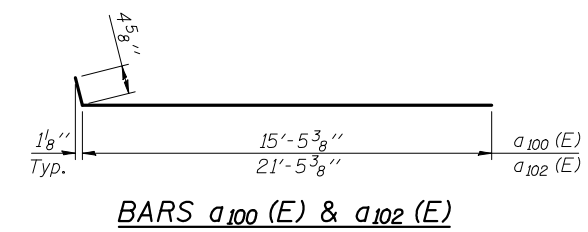
VIEW E-E



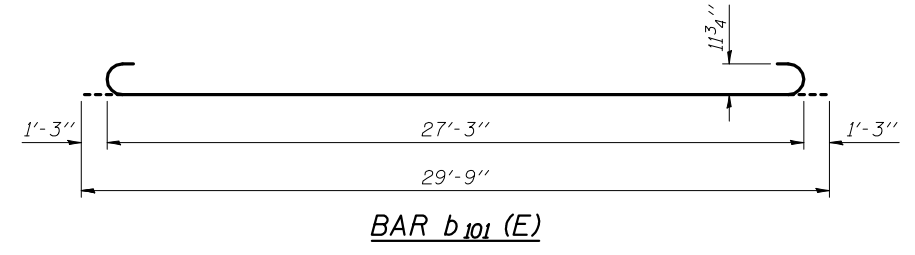
\*Tilt #9 b101(E) bars as required to maintain clearance.  
\*\*\*Cost included with Concrete Superstructure.

TWO APPROACHES  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a100 (E)	50	#4	15'-10"	—
a101 (E)	92	#5	15'-7"	—
a102 (E)	50	#4	21'-10"	—
a103 (E)	92	#5	21'-7"	—
a104 (E)	48	#6	6'-6"	—
b100 (E)	76	#4	29'-8"	—
b101 (E)	180	#9	29'-9"	—
b102 (E)	8	#4	14'-8"	—
d100 (E)	68	#5	5'-7"	—
d101 (E)	68	#5	7'-11"	—
e100 (E)	32	#4	14'-8"	—
e101 (E)	4	#8	14'-8"	—
t100 (E)	160	#4	9'-8"	—
w100 (E)	80	#5	15'-7"	—
w101 (E)	80	#5	21'-7"	—
Concrete Superstructure		Cu. Yd.	123.6	
Concrete Structures		Cu. Yd.	23.4	
Reinforcement Bars, Epoxy Coated		Pound	30650	



BARS a100(E) & a102(E)



BAR b101(E)

DESIGNED	Fess Teklehaimanot
CHECKED	Stephen M. Ryan
DRAWN	h.t. duong
CHECKED	FT/SMR

EXAMINED	Thomas J. Domagalicki ENGINEER OF BRIDGE DESIGN
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

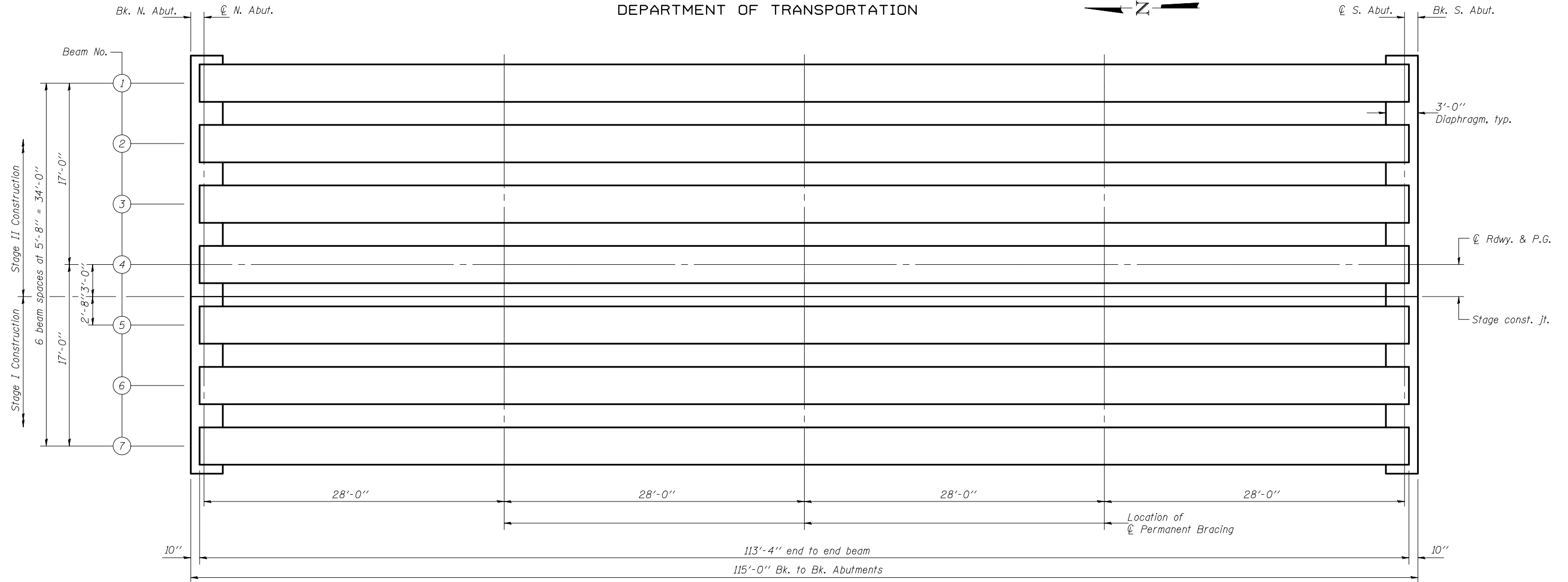
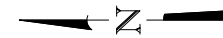
November 24, 2010

BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 034-0522

SHEET NO. 14 23 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	506	123B-1	HANCOCK	48	70
CONTRACT NO. 72992					
ILLINOIS FED. AID PROJECT					



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**PLAN**

INTERIOR BEAM MOMENT TABLE		
		0.5 Span
$I$	(in <sup>4</sup> )	392638
$I'$	(in <sup>4</sup> )	699473
$S_b$	(in <sup>3</sup> )	12224
$S_b'$	(in <sup>3</sup> )	15765
$S_t$	(in <sup>3</sup> )	12715
$S_t'$	(in <sup>3</sup> )	37546
$DC1$	(k/')	1.392
$M_{DC1}$	(k)	2183
$DC2$	(k/')	0.129
$M_{DC2}$	(k)	202
$DW$	(k/')	0.283
$M_{DW}$	(k)	444
$M_{\xi} + IM$	(k)	1785

INTERIOR BEAM REACTION TABLE		
		Abut.
$R_{DC1}$	(k)	78.0
$R_{DC2}$	(k)	7.2
$R_{DW}$	(k)	15.8
$R_{\xi} + IM$	(k)	79.9
$R_{Total}$	(k)	180.9

$I$ : Non-composite moment of inertia of beam section (in.<sup>4</sup>).  
 $I'$ : Composite moment of inertia of beam section (in.<sup>4</sup>).  
 $S_b$ : Non-composite section modulus for the bottom fiber of the prestressed beam (in.<sup>3</sup>).  
 $S_b'$ : Composite section modulus for the bottom fiber of the prestressed beam (in.<sup>3</sup>).  
 $S_t$ : Non-composite section modulus for the top fiber of the prestressed beam (in.<sup>3</sup>).  
 $S_t'$ : Composite section modulus for the top fiber of the prestressed beam (in.<sup>3</sup>).  
 $DC1$ : Un-factored non-composite dead load (kips/ft.).  
 $M_{DC1}$ : Un-factored moment due to non-composite dead load (kip-ft.).  
 $DC2$ : Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).  
 $M_{DC2}$ : Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).  
 $DW$ : Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).  
 $M_{DW}$ : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).  
 $M_{\xi} + IM$ : Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

Note: For permanent bracing details, see sheets 17 of 23.

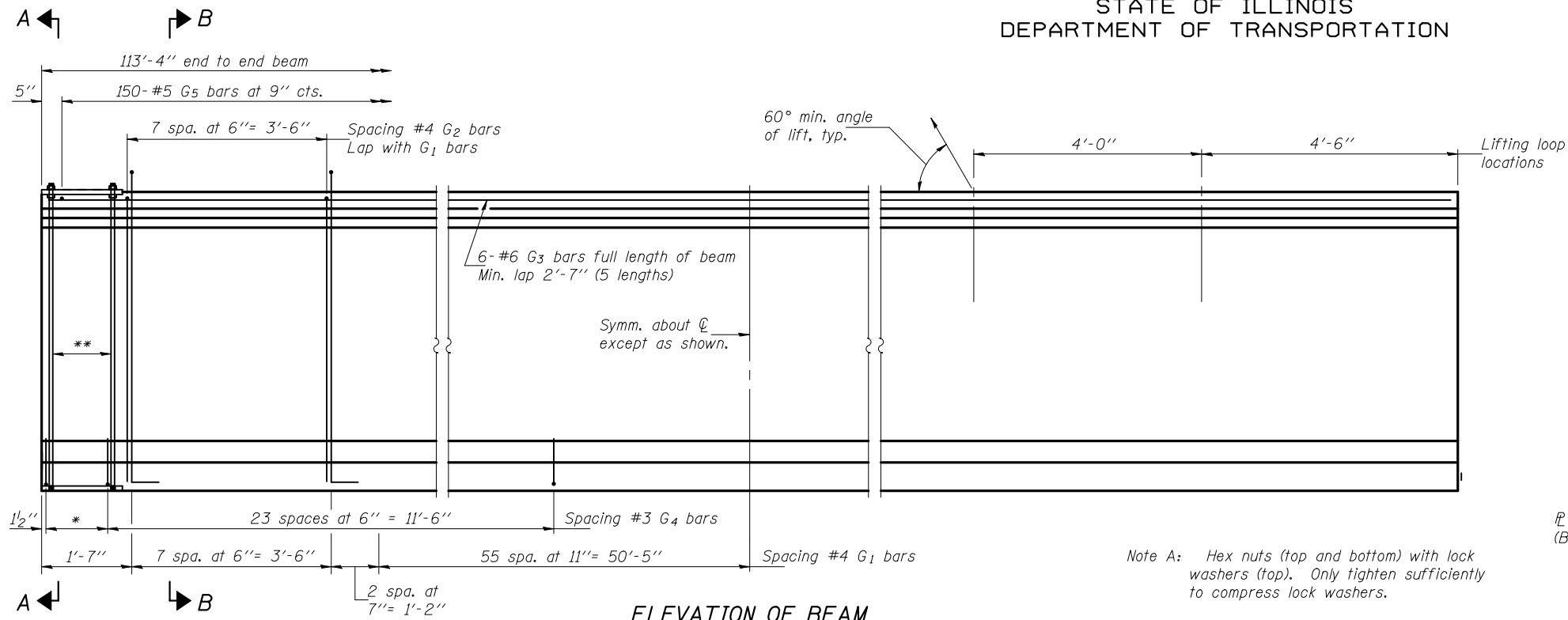
DESIGNED *Fess Teklehaimanot*  
 CHECKED *Stephen M. Ryan*  
 DRAWN *h.t. duong*  
 CHECKED *FT/SMR*

November 24, 2010  
 EXAMINED *Thomas J. Damagala*  
 PASSED *Ralph E. Anderson*  
ENGINEER OF BRIDGE DESIGN  
ENGINEER OF BRIDGES AND STRUCTURES

**FRAMING PLAN**  
**STRUCTURE NO. 034-0522**

SHEET NO. 15	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	506	123B-1	HANCOCK	49	70
23 SHEETS	CONTRACT NO. 72992				
ILLINOIS FED. AID PROJECT					

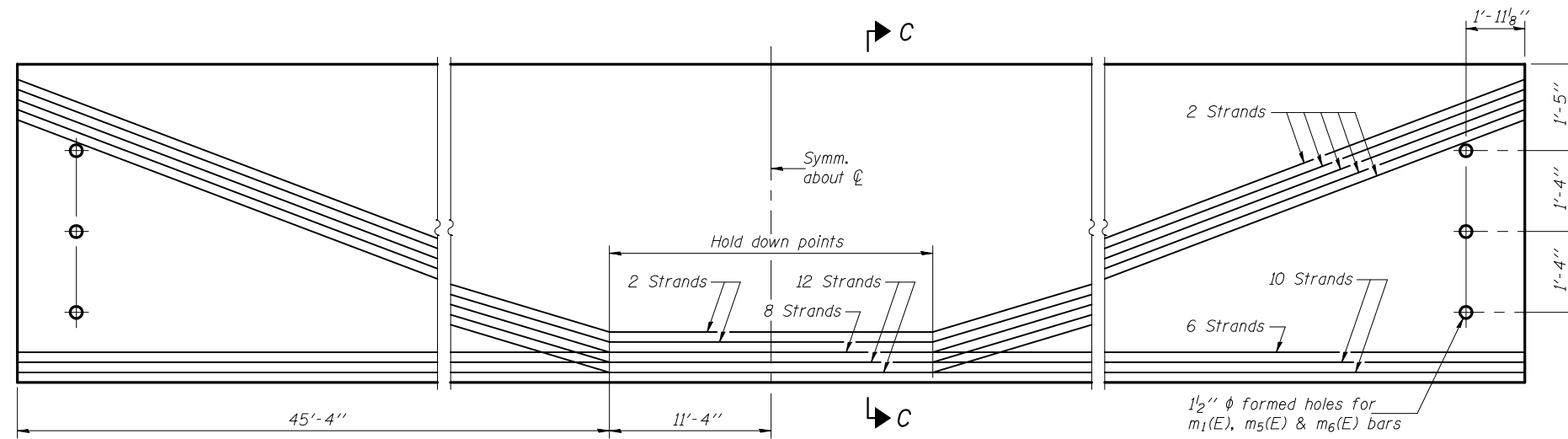
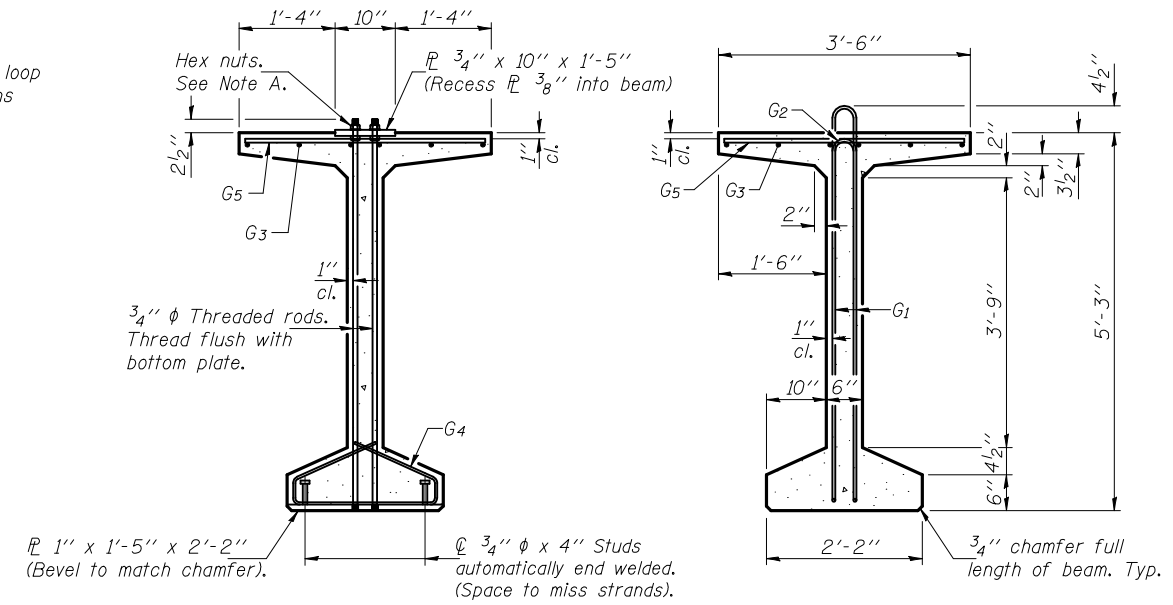
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



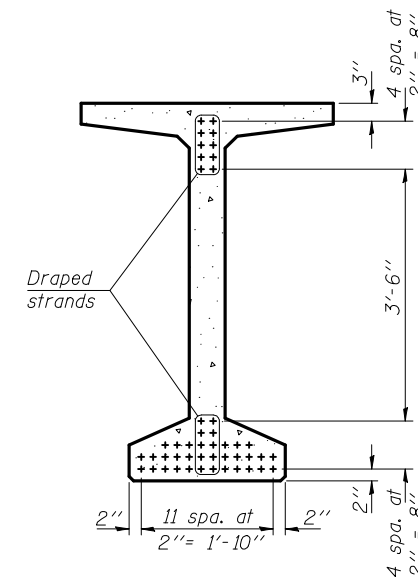
**ELEVATION OF BEAM**  
(Showing reinforcement & dimensions)

\*4 spaces at 3/4" = 1'-1"  
\*\*5-3/4"  $\phi$  threaded dowel rods at 3/4" cts., each face

Note A: Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



**ELEVATION OF BEAM**  
(Showing prestressing steel)



**\*\*\*BAR LIST**  
**ONE BEAM ONLY**

Bar	No.	Size	Length	Shape
G1	129	#4	11'-11"	$\bar{N}$
G2	16	#4	10'-2"	$\bar{N}$
G3	30	#6	24'-8"	$\bar{N}$
G4	56	#3	4'-11"	$\bar{N}$
G5	150	#5	3'-4"	$\bar{N}$

\*\*\*For information only

Notes: See sheet 17 of 23 for additional details and Bill of Material.  
Required release strength,  $f'_{ci}$ , shall be 6000 psi.

DESIGNED	Fess Teklehaimanot
CHECKED	Stephen M. Ryan
DRAWN	h.t. duong
CHECKED	FT/SMR

EXAMINED	Thomas J. Domagalick ENGINEER OF BRIDGE DESIGN
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

November 24, 2010

**63" PPC BULB T-BEAM**  
**STRUCTURE NO. 034-0522**

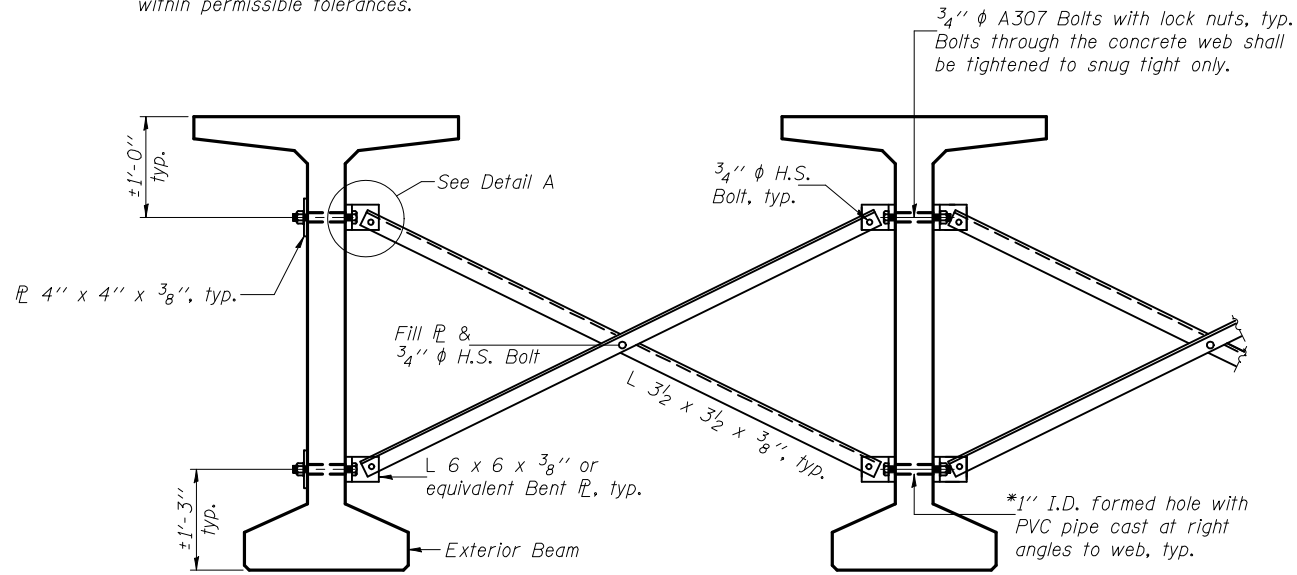
SHEET NO. 16 23 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	506	123B-1	HANCOCK	50	70
CONTRACT NO. 72992					
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

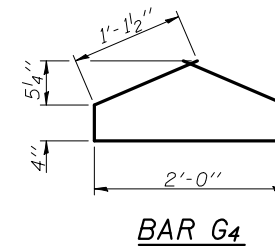
NOTES

Inserts for  $\frac{3}{4}$ "  $\phi$  threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams.  
 Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be  $\frac{1}{2}$ " and the nominal cross-sectional area shall be 0.153 sq. in.  
 Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).  
 A minimum  $2\frac{1}{2}$ "  $\phi$  lifting pin shall be used to engage the lifting loops during handling.  
 The top and bottom plates shall be AASHTO M270 Grade 50.  
 The bottom plates and studs shall be galvanized according to AASHTO M111.  
 Threaded rods shall be ASTM F 1554 Grade 55.  
 All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.  
 Two hardened washers are required for each set of oversized holes.  
 All holes shall be  $\frac{15}{16}$ "  $\phi$  unless otherwise noted.  
 $\frac{15}{16}$ "  $\times$  3"  $\times$  3" plate washers are required over all slotted holes.  
 All bolts shall be galvanized according to AASHTO M232.  
 Bracing shall be installed as beams are erected and tightened as soon as possible during erection.  
 Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams.

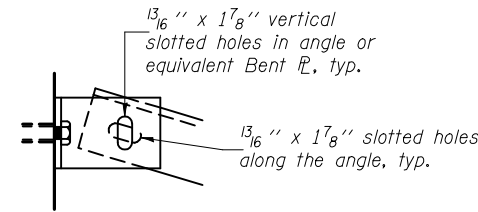
\*Fabricator shall locate to miss strands within permissible tolerances.



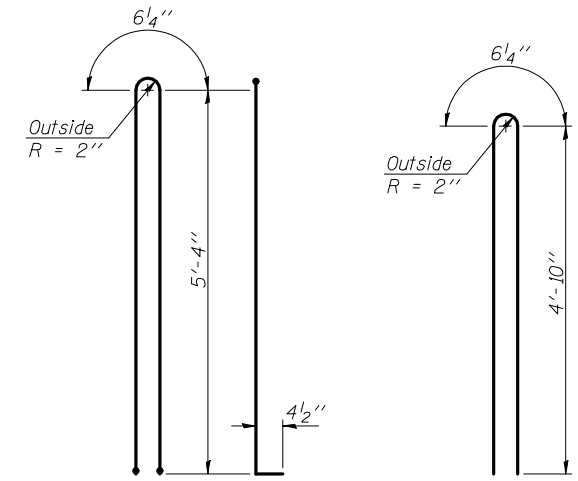
PERMANENT BRACING DETAIL



BAR G4

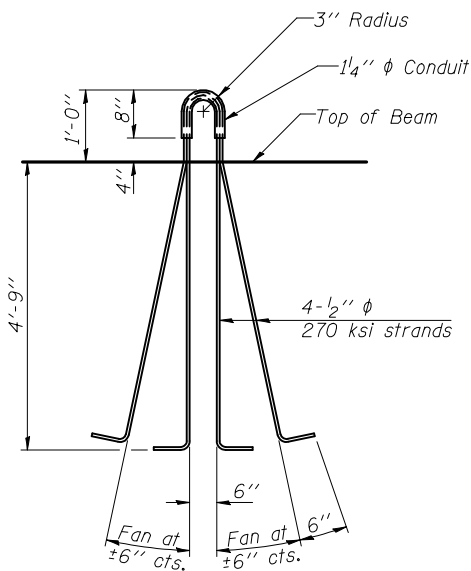


DETAIL A

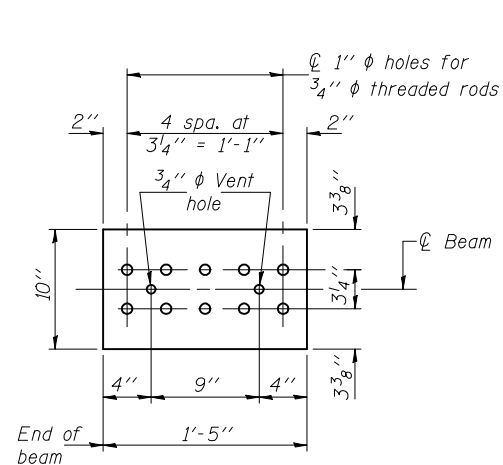


BAR G1

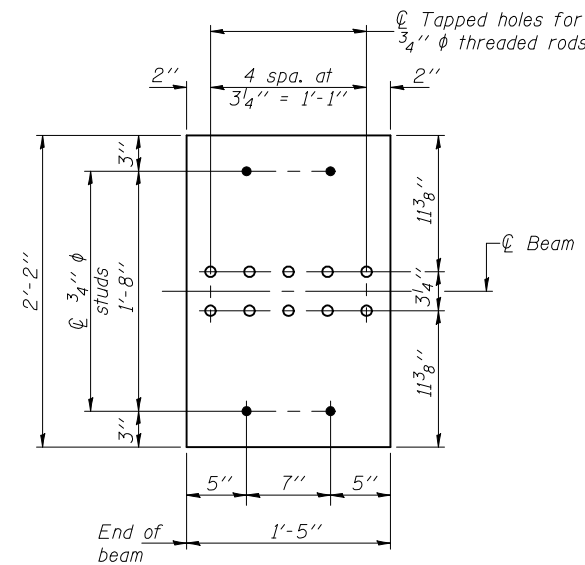
BAR G2



LIFTING LOOP DETAIL



TOP PLATE



BOTTOM PLATE

See bearing details for pintle hole locations when required.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams, 63"	Ft.	793.5

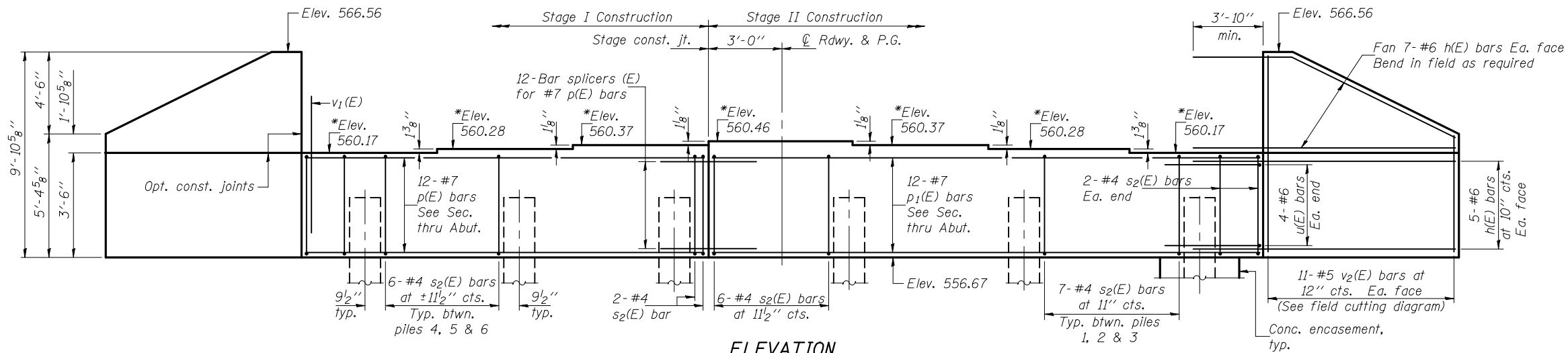
63" PPC BULB T-BEAM DETAILS  
STRUCTURE NO. 034-0522

DESIGNED	Fess Teklehaimanot
CHECKED	Stephen M. Ryan
DRAWN	h.t. duong
CHECKED	FT/SMR

EXAMINED	November 24, 2010	Thomas J. Domagala
PASSED		Ralph E. Anderson

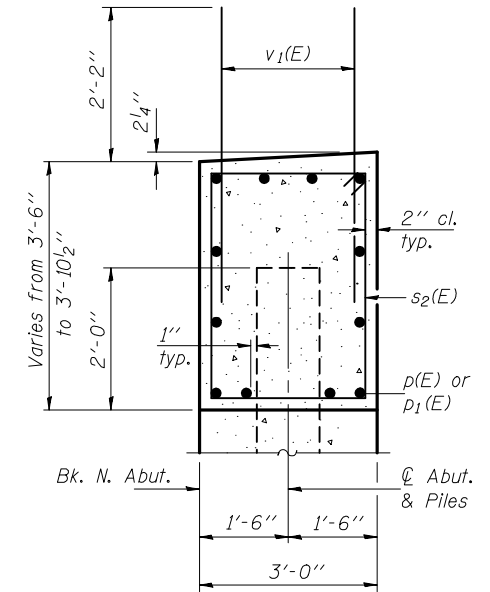
SHEET NO. 17	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	506	123B-1	HANCOCK	51	70
23 SHEETS	CONTRACT NO. 72992				
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**ELEVATION**  
(Looking north)

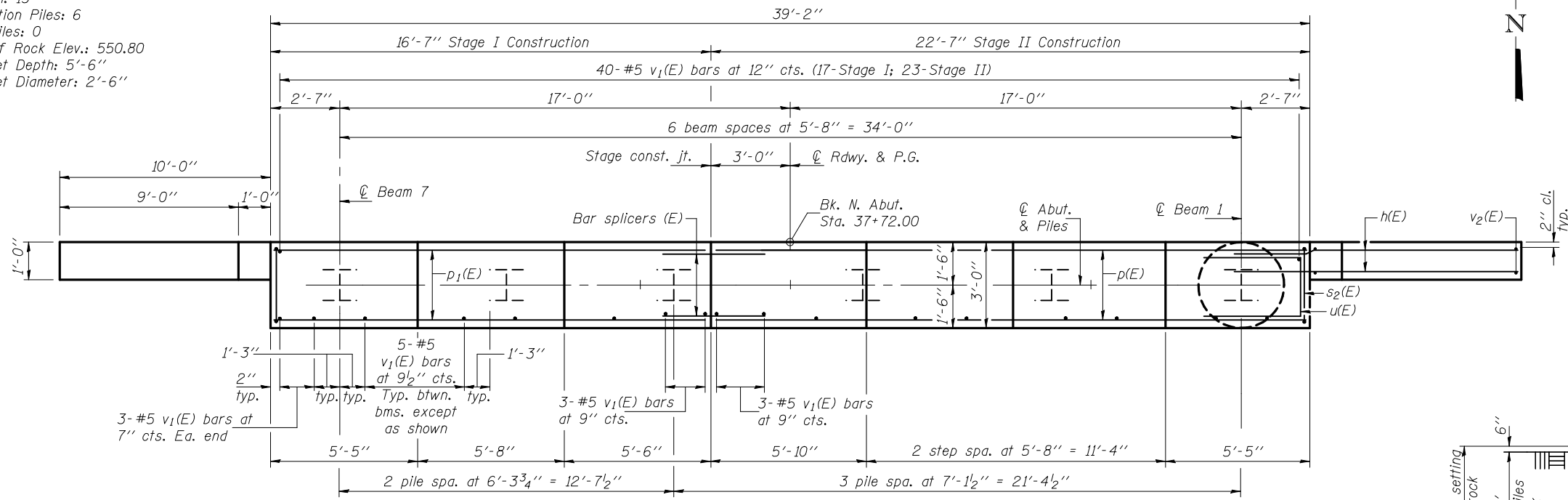
\*Elevation are taken at back of abutment.



**SEC. THRU ABUT.**

**PILE DATA**

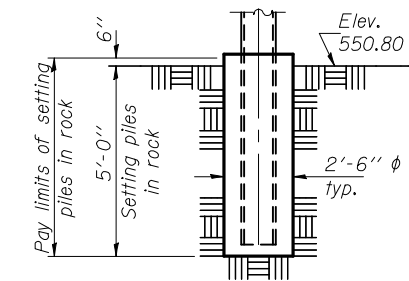
Type: Steel HP14x89  
Nominal Required Bearing: Set in Rock  
Factored Resistance Available: 352 Kips  
Est. Length: 13'  
No. Production Piles: 6  
No. Test Piles: 0  
Est. Top of Rock Elev.: 550.80  
Rock Socket Depth: 5'-6"  
Rock Socket Diameter: 2'-6"



**PLAN**

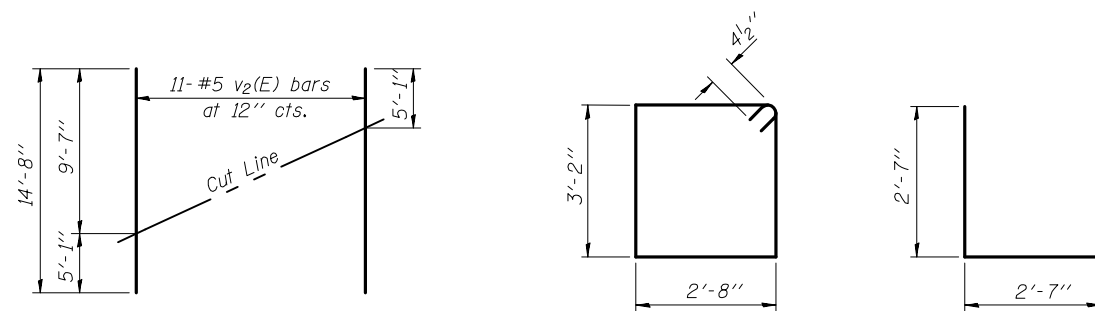
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	24	#6	17'-11"	—
p(E)	12	#7	16'-3"	—
p1(E)	12	#7	22'-3"	—
s2(E)	38	#4	12'-5"	□
u(E)	8	#6	7'-9"	□
v1(E)	77	#5	4'-4"	—
v2(E)	22	#5	14'-8"	—
Structure Excavation		Cu. Yd.	184.5	
Concrete Structures		Cu. Yd.	22.5	
Reinforcement Bars, Epoxy Coated		Pound	2680	
Furnishing Steel Piles HP14x89		Foot	78	
Setting Piles in Rock		Each	6	
Concrete Encasement		Cu. Yd.	3.3	



**SETTING PILES IN ROCK DETAIL**

Notes: Pour steps monolithically with cap.  
For details of piles and concrete encasement, see sheet 21 of 23.  
For details of bar splicers, see sheet 20 of 23.



**FIELD CUTTING DIAGRAM**

Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.

**BAR s2(E)**

**BAR u(E)**

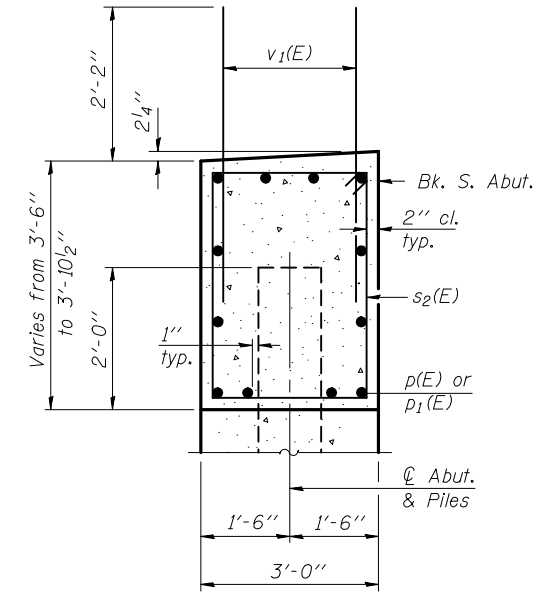
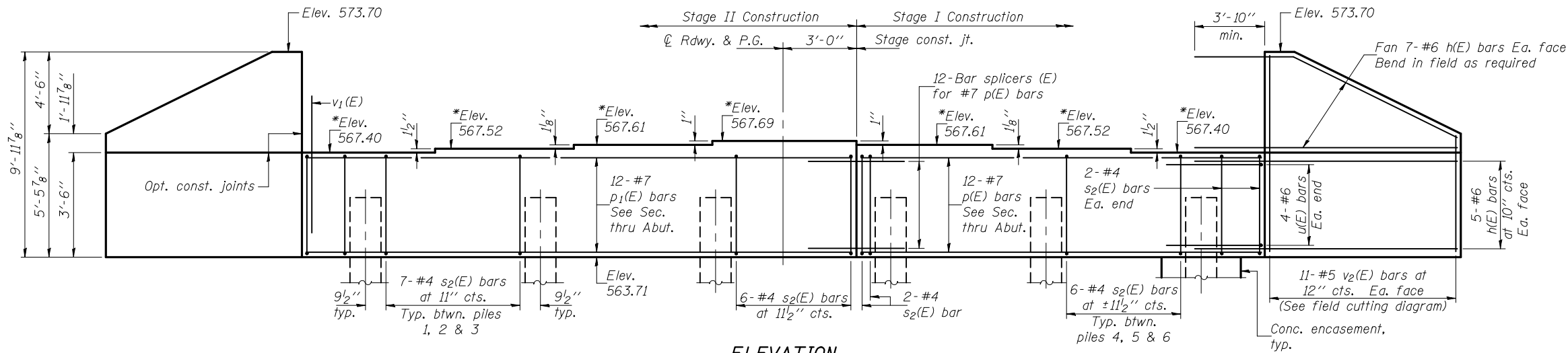
DESIGNED	Fess Teklehaimanot
CHECKED	Stephen M. Ryan
DRAWN	h.t. duong
CHECKED	FT/SMR

EXAMINED	Thomas J. Domagala	November 24, 2010
PASSED	Ralph E. Anderson	

SHEET NO. 18 23 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	506	123B-1	HANCOCK	52	70
CONTRACT NO. 72992					
ILLINOIS FED. AID PROJECT					

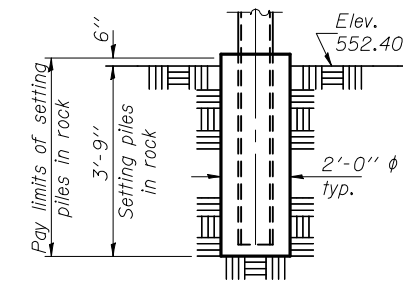
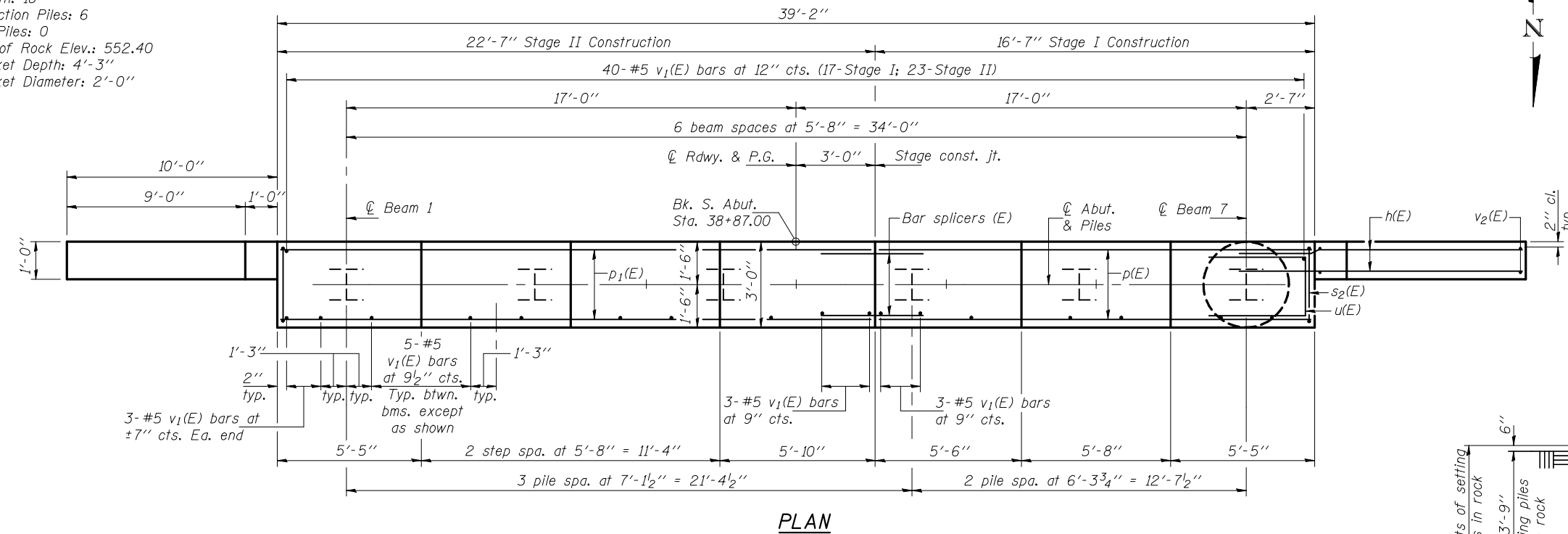
**NORTH ABUTMENT  
STRUCTURE NO. 034-0522**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**PILE DATA**

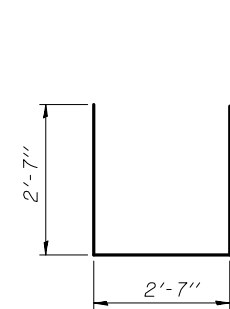
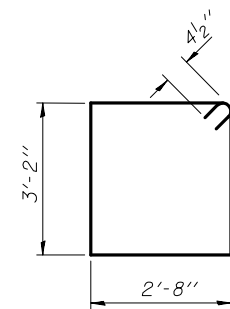
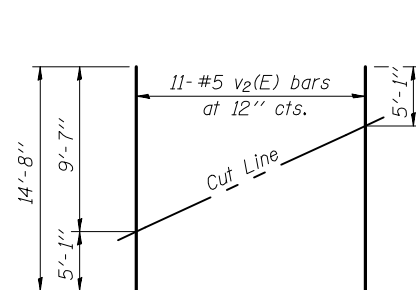
Type: Steel HP14x89  
Nominal Required Bearing: Set in Rock  
Factored Resistance Available: 352 Kips  
Est. Length: 18'  
No. Production Piles: 6  
No. Test Piles: 0  
Est. Top of Rock Elev.: 552.40  
Rock Socket Depth: 4'-3"  
Rock Socket Diameter: 2'-0"



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	24	#6	17'-11"	—
p(E)	12	#7	16'-3"	—
p <sub>1</sub> (E)	12	#7	22'-3"	—
s <sub>2</sub> (E)	38	#4	12'-5"	□
u(E)	8	#6	7'-9"	□
v <sub>1</sub> (E)	77	#5	4'-4"	—
v <sub>2</sub> (E)	22	#5	14'-8"	—
Structure Excavation	Cu. Yd.		190.4	
Concrete Structures	Cu. Yd.		22.6	
Reinforcement Bars, Epoxy Coated	Pound		2680	
Furnishing Steel Piles HP14x89	Foot		108	
Setting Piles in Rock	Each		6	
Concrete Encasement	Cu. Yd.		3.3	

Notes: Pour steps monolithically with cap.  
For details of piles and concrete encasement, see sheet 21 of 23.  
For details of bar splicer, see sheet 20 of 23.



DESIGNED	Fess Teklehaimanot
CHECKED	Stephen M. Ryan
DRAWN	h.t. duong
CHECKED	FT/SMR

EXAMINED	Thomas J. Domagalaki	November 24, 2010
PASSED	Ralph E. Anderson	

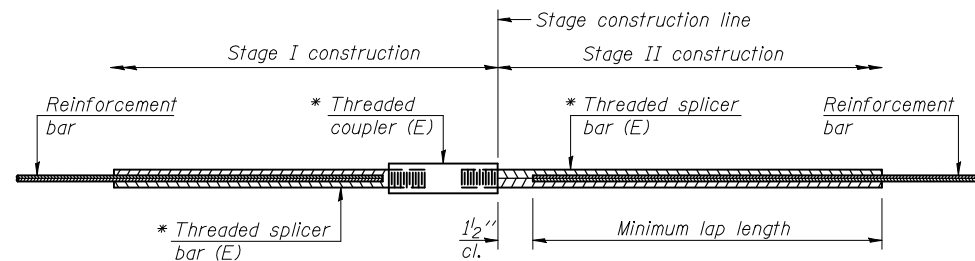
**FIELD CUTTING DIAGRAM**

Order v<sub>2</sub>(E) full length. Cut as shown and use remainder of bars in opposite face.

**SOUTH ABUTMENT  
STRUCTURE NO. 034-0522**

SHEET NO. 19 23 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	506	123B-1	HANCOCK	53	70
CONTRACT NO. 72992					
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**STANDARD BAR SPLICER ASSEMBLY**

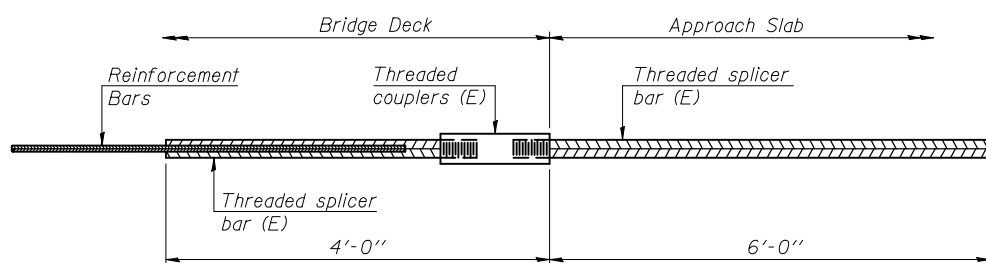
Minimum Lap Lengths				
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4
3, 4	1'-5"	1'-11"	2'-1"	2'-4"
5	1'-9"	2'-5"	2'-7"	2'-11"
6	2'-1"	2'-11"	3'-1"	3'-6"
7	2'-9"	3'-10"	4'-2"	4'-8"
8	3'-8"	5'-1"	5'-5"	6'-2"
9	4'-7"	6'-5"	6'-10"	7'-9"

Table 1: Black bar, 0.8 Class C  
Table 2: Black bar, Top bar lap, 0.8 Class C  
Table 3: Epoxy bar, 0.8 Class C  
Table 4: Epoxy bar, Top bar lap, 0.8 Class C

Threaded splicer bar length = min. lap length + 1/2" + thread length

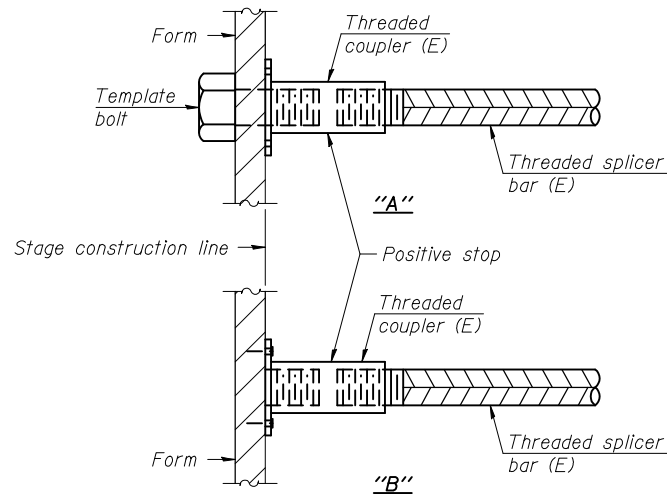
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#5	336	2'-7"
Diaphragm	#6	20	3'-1"
Abutments	#7	24	4'-2"
Appr. Slab	#4	50	2'-1"
Appr. Slab	#5	172	2'-7"



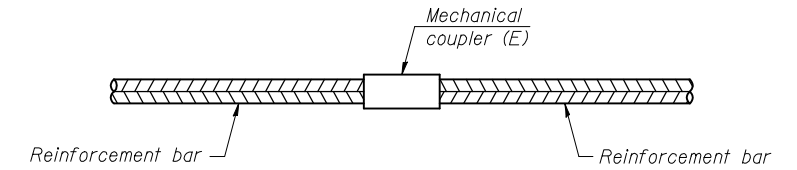
**BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

No. required = 72



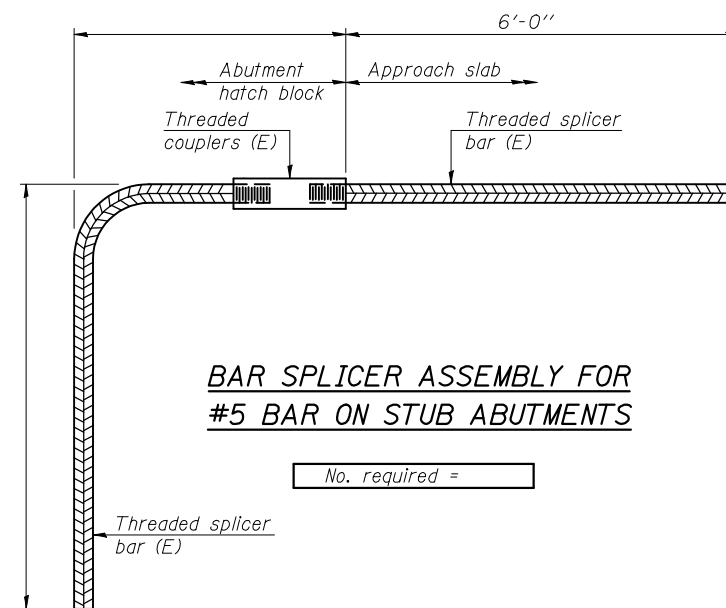
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
(E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required =

**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
All reinforcement shall be lapped and tied to the splicer bars.  
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
See special provision for Mechanical Splicers.  
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

**BAR SPLICER ASSEMBLY DETAILS  
STRUCTURE NO. 034-0522**

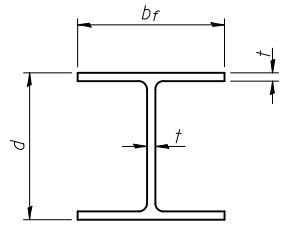
DESIGNED *Fess Teklehaimanot*  
CHECKED *Stephen M. Ryan*  
DRAWN *h.t. duong*  
CHECKED *FT/SMR*

November 24, 2010  
EXAMINED *Thomas J. Domagala*  
PASSED *Ralph E. Anderson*

BSD-1 11-1-09

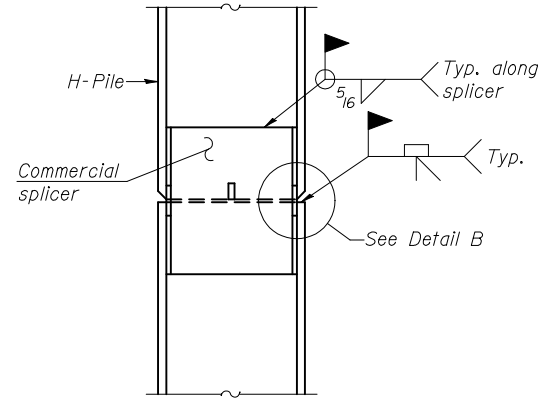
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	CONTRACT NO. 72992			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

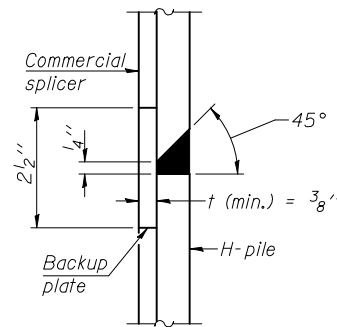


STEEL PILE TABLE

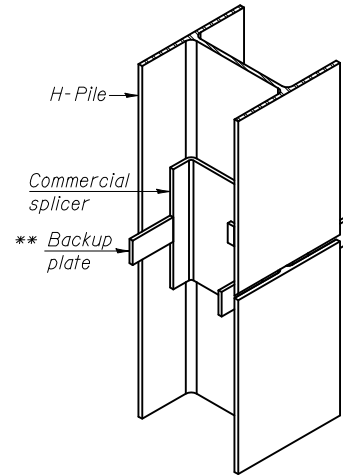
Designation	Depth d	Flange width b <sub>f</sub>	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

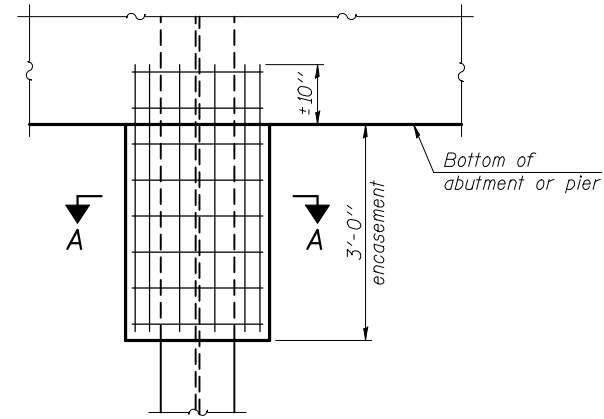


DETAIL "B"



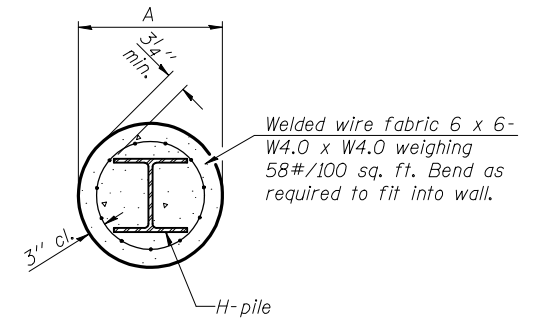
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



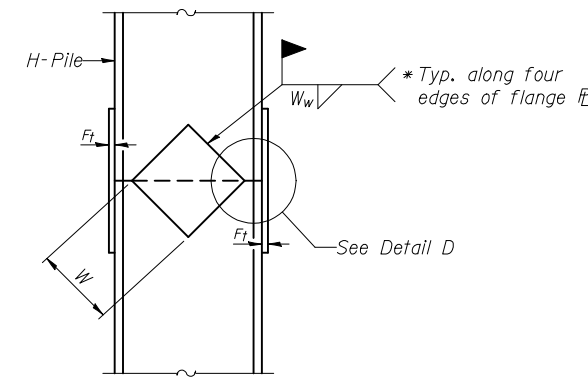
ELEVATION

PILE ENCASEMENT

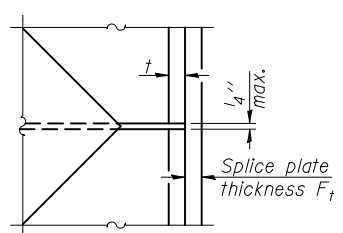


SECTION A-A

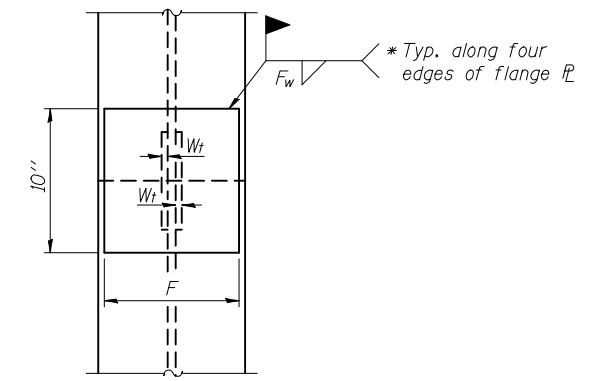
Note:  
Forms for encasement may be omitted when soil conditions permit.



ELEVATION



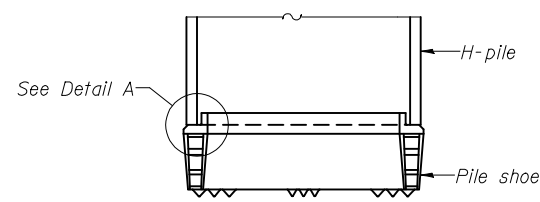
DETAIL D



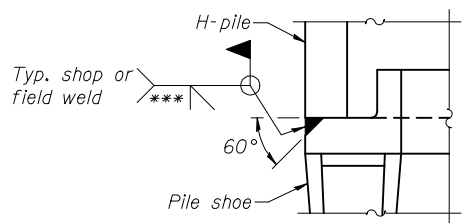
END VIEW

Designation	F	F <sub>t</sub>	F <sub>w</sub>	W	W <sub>t</sub>	W <sub>w</sub>
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

WELDED PLATE FIELD SPLICE

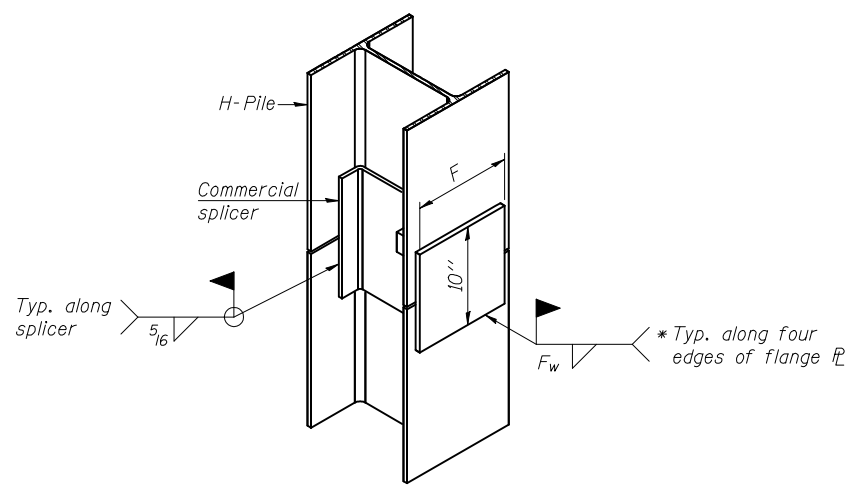


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).

Note:  
The steel H-piles shall be according to AASHTO M270 Grade 50.

DESIGNED	Fess Teklehaimanot
CHECKED	Stephen M. Ryan
DRAWN	h.t. duong
CHECKED	FT/SMR

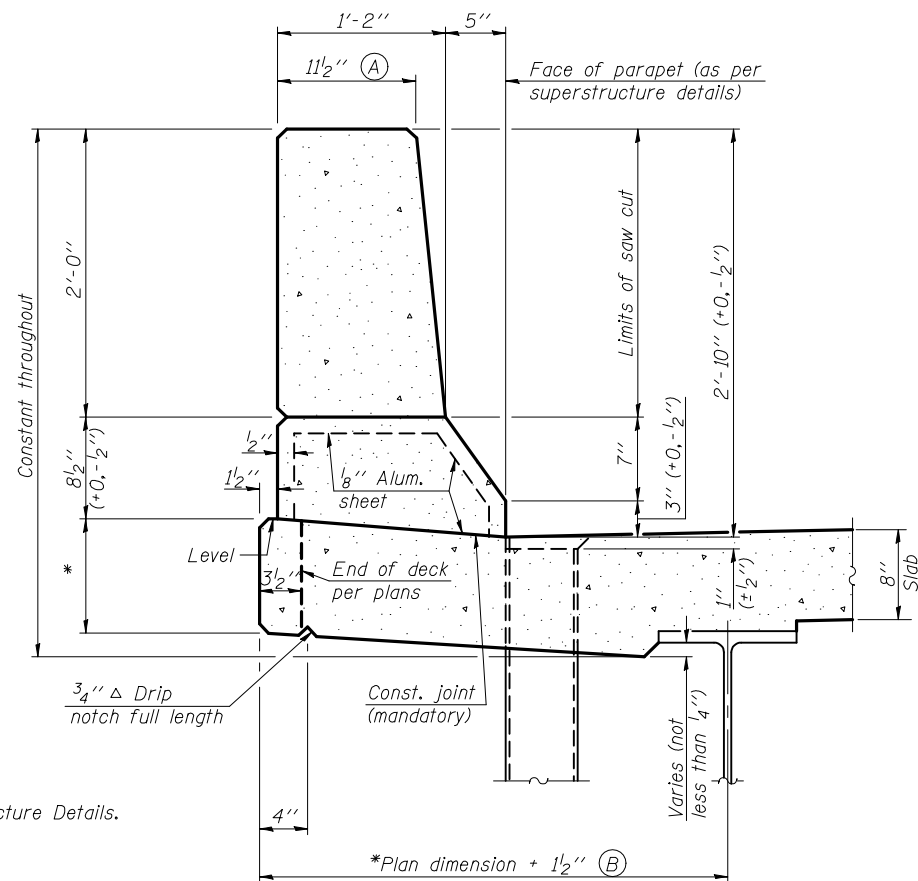
DATE	November 24, 2010
EXAMINED	Thomas J. Domagala
PASSED	Ralph E. Anderson

F-HP 11-1-09

HP PILE DETAILS  
STRUCTURE NO. 034-0522

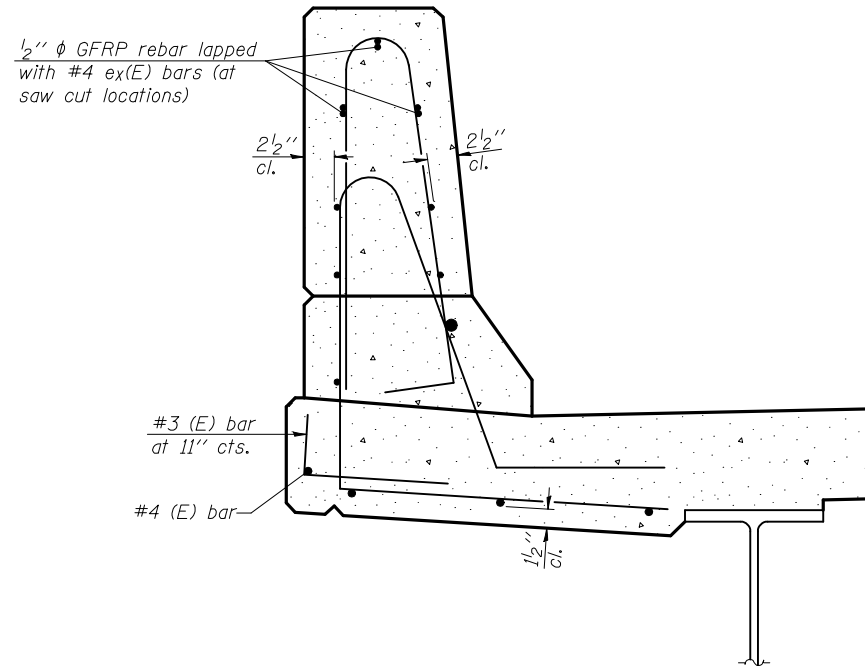
SHEET NO. 21 23 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	506	123B-1	HANCOCK	55	70
CONTRACT NO. 72992					
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



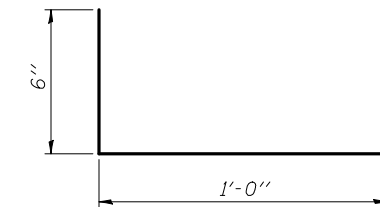
**SECTION**  
(Showing dimensions)

\* See Superstructure Details.

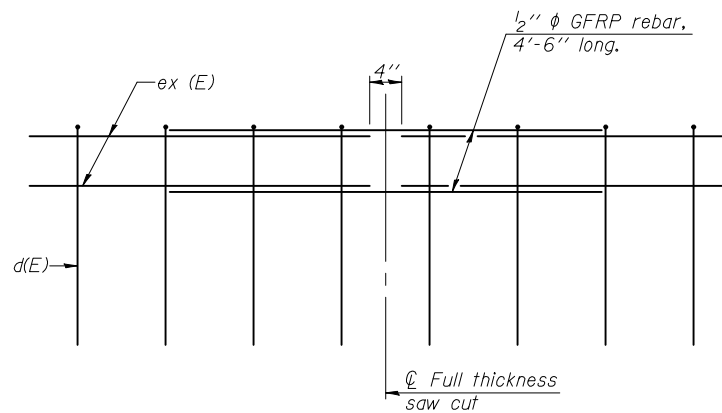


**SECTION**  
(Showing reinforcement clearances for slip forming and additional reinforcement bars)

**GENERAL NOTES**  
All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. of parapet.  
Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler.  
Steel superstructure shown. Other superstructure types similar.



**#3 (E) BAR**



**GFRP REBAR STIFFENING DETAIL**  
(Place as shown in parapet section at each parapet joint location.)

**CONCRETE PARAPET SLIPFORMING OPTION**  
**STRUCTURE NO. 034-0522**

DESIGNED	Fess Teklehaimanot
CHECKED	Stephen M. Ryan
DRAWN	h.t. duong
CHECKED	FT/SMR

EXAMINED	Thomas J. Domagala ENGINEER OF BRIDGE DESIGN
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

SFP-34

11-1-09

SHEET NO. 22 23 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	506	123B-1	HANCOCK	56	70
CONTRACT NO. 72992					
ILLINOIS FED. AID PROJECT					



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**Illinois Department of Transportation**  
Division of Highways District 6

### SOIL BORING LOG

Page 1 of 1  
Date 9/13/07

ROUTE FAP 506 (IL 96) DESCRIPTION IL 96 over Railroad Creek NW Abut LOGGED BY M. Tappan

SECTION 123B-1 LOCATION NE 14, SEC. 32, TWP. 5N, RNG. 8W, 4 PM

COUNTY Hancock DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 034-0522  
Station 38+17

BORING NO. 1 NW Abut  
Station 37+85  
Offset 13.0ft RT  
Ground Surface Elev. 564.75 ft

DEPTH (ft)	B	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:
	(in)	(%)	(%)			✓ First Encounter No encounter ft ✓ Upon Completion Cored ft ✓ After Hrs. Plugged ft
0				548.85	547.15	
1	0.8	32				
2	1					
5	0.7	31				
1	1					
0						
1	0.9	25				
2	2					
4	1.4	25				
4	4					
563.75						
4						
5	1.2	12				
6						
560.75						
100						
17						
15						
20						

Soil Description:  
Lt Reddish Brown Moist CLAY Residuum (Fill) w/ angular LS  
Lt Red  
Gray and Brown CLAY LOAM (Residuum) w/ Angular Cherty LS Clasts  
Dk Gray Well Indurated Crystalline LIMESTONE Open Joints 2-12" Start Rock Core at 14.2 FT Borehole continued with rock coring.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by [B-Bulge, S-Shear, P-Penetrometer, E-Estimated] Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Sealing The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)

**Illinois Department of Transportation**  
Division of Highways District 6

### ROCK CORE LOG

Page 1 of 1  
Date 9/13/07

ROUTE FAP 506 (IL 96) DESCRIPTION IL 96 over Railroad Creek NW Abut LOGGED BY M. Tappan

SECTION 123B-1 LOCATION NE 14, SEC. 32, TWP. 5N, RNG. 8W, 4 PM

COUNTY Hancock CORING METHOD Water

STRUCT. NO. 034-0522 CORING BARREL TYPE & SIZE NQ2WL  
Station 38+17

BORING NO. 1 NW Abut  
Station 37+85  
Offset 13.0ft RT  
Ground Surface Elev. 564.75 ft

DEPTH (ft)	R	Q	T	RECOVERED (%)	RECOVERED (min)	RECOVERED (max)
	(#)	(%)	(%)	(min)	(ft)	(min)
15	1	96	38			
548.75						
548.15						
545.75						569.4
20	2	94	92			
540.95						576.8
25	3	98	83			
536.15						447.6
30	4	94	83			
531.35						438.2

Soil Description:  
Dk Gray Well Indurated Crystalline LIMESTONE Open Joints 2-12" Start Rock Core at 14.2 FT (continued)  
Gray V. Poorly Indurated Clayey SHALE Interbedded w/ Argillaceous LS seams Closed Joints > 2"  
Dk Gray Well Indurated Crystalline LIMESTONE Closed Joints 2-12" filled w/ Gray Clayey Shale  
Dk Gray V. Well Indurated Fossiliferous Crystalline LIMESTONE Open Joints 1-3"  
Dk Gray V. Well Indurated Fossiliferous Crystalline LIMESTONE w/ interbedded chert seams Open Joints 1-3"  
Gray Well Indurated Clayey SHALE Interbedded w/ Crystalline LS Closed Joints > 2"

Color pictures of the cores Yes, On File  
Cores will be stored for examination until 5 Years after Construction  
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
RQD is the ratio of the total length of sound core specimens > 4" to total length of core run

**Illinois Department of Transportation**  
Division of Highways District 6

### SOIL BORING LOG

Page 1 of 1  
Date 9/13/07

ROUTE FAP 506 (IL 96) DESCRIPTION IL 96 over Railroad Creek SE Abut LOGGED BY M. Tappan

SECTION 123B-1 LOCATION NE 14, SEC. 32, TWP. 5N, RNG. 8W, 4 PM

COUNTY Hancock DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 034-0522  
Station 38+17

BORING NO. 2 SE Abut  
Station 38+86  
Offset 13.0ft LT  
Ground Surface Elev. 571.85 ft

DEPTH (ft)	B	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:
	(in)	(%)	(%)			✓ First Encounter No encounter ft ✓ Upon Completion Cored ft ✓ After Hrs. Plugged ft
0				548.85	547.15	
1	0.6	18				
1	1					
5	1.4	23				
3	3					
1	1	0.7	24			
2	2					
1						
10	2	1.0	25			
3	3					
1	2	0.7	14			
2	2					
567.85						
1						
15	2	1.2	10			
4	4					
1						
5	1.0	12				
6						
10						
100						
562.35						
20						

Soil Description:  
Gray and Brown Moist CLAY Residuum (Fill) w/ broken Angular LS clasts  
Reddish Brown  
Gray and Brown  
Gray and Brown Moist CLAY Residuum (Fill) w/ Angular LS clasts  
Borehole continued with rock coring.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by [B-Bulge, S-Shear, P-Penetrometer, E-Estimated] Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Sealing The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)

**Illinois Department of Transportation**  
Division of Highways District 6

### ROCK CORE LOG

Page 1 of 1  
Date 9/13/07

ROUTE FAP 506 (IL 96) DESCRIPTION IL 96 over Railroad Creek SE Abut LOGGED BY M. Tappan

SECTION 123B-1 LOCATION NE 14, SEC. 32, TWP. 5N, RNG. 8W, 4 PM

COUNTY Hancock CORING METHOD Water

STRUCT. NO. 034-0522 CORING BARREL TYPE & SIZE NQ2WL  
Station 38+17

BORING NO. 2 SE Abut  
Station 38+86  
Offset 13.0ft LT  
Ground Surface Elev. 571.85 ft

DEPTH (ft)	R	Q	T	RECOVERED (%)	RECOVERED (min)	RECOVERED (max)
	(#)	(%)	(%)	(min)	(ft)	(min)
20	1	77	58			
547.55						328.6
25	2	100	73			
542.75						618.2
30						
35						

Soil Description:  
Dk Gray V. Well Indurated Crystalline LIMESTONE 3" Gray Shale seams @ 24" Open Joints 2-12" 19.5-20.9 V. Broken, Poor Recov.  
w/ Closed Joints 1-3" Some interbedded Clayey Shale Seams

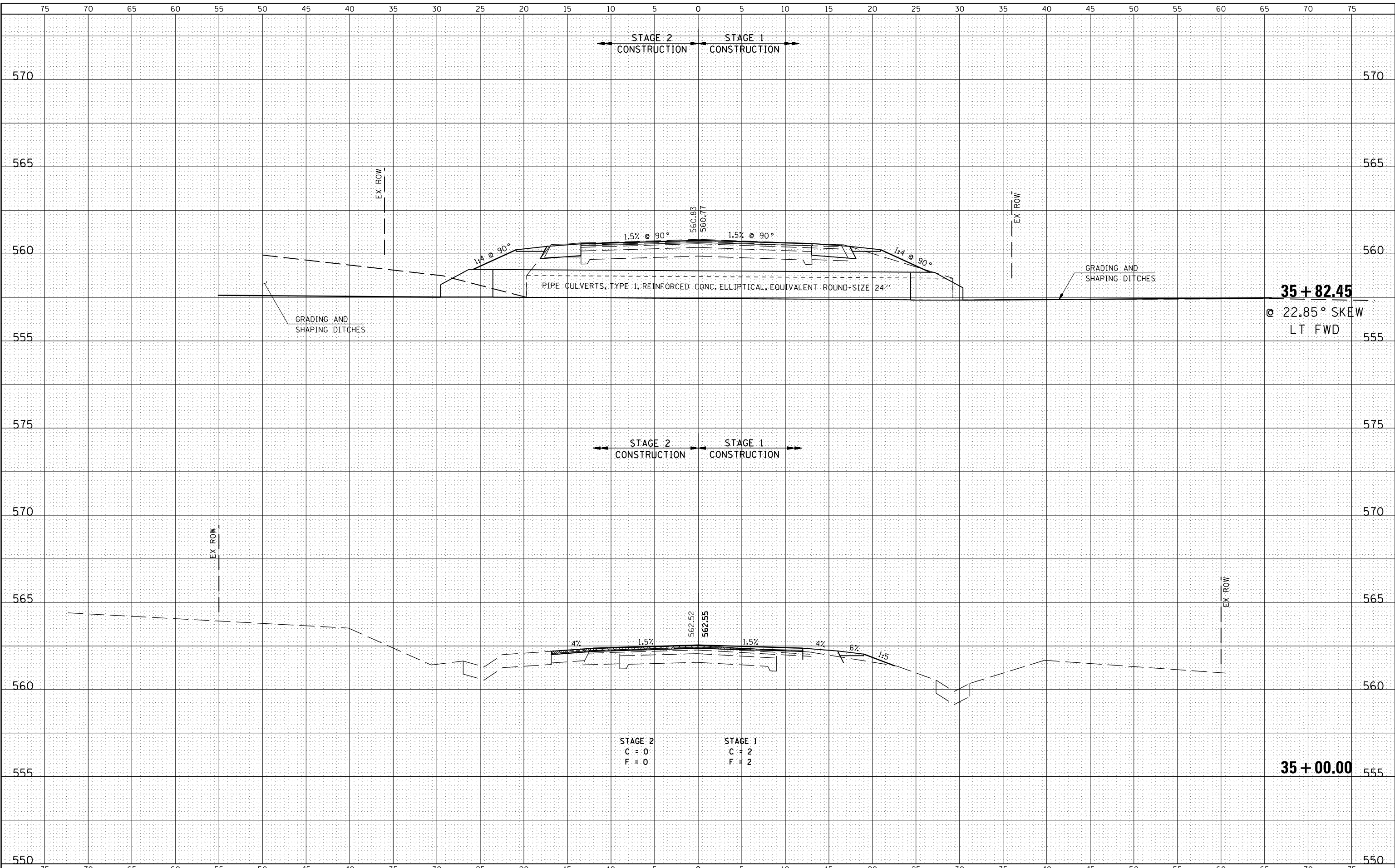
Color pictures of the cores Yes, On File  
Cores will be stored for examination until 5 Years after Construction  
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
RQD is the ratio of the total length of sound core specimens > 4" to total length of core run

SOIL BORING LOGS  
STRUCTURE NO. 034-0522

SHEET NO. 23  23 SHEETS	F.A.P. RTE. 506	SECTION 123B-1	COUNTY HANCOCK	TOTAL SHEETS 57	SHEET NO. 70
	CONTRACT NO. 72992				
ILLINOIS FED. AID PROJECT					







DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

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USER NAME = laughl1nr1  
 96.SHT  
 PLOT SCALE = 10.0000' / in.  
 PLOT DATE = Aug-11-2010 10:39:59AM

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

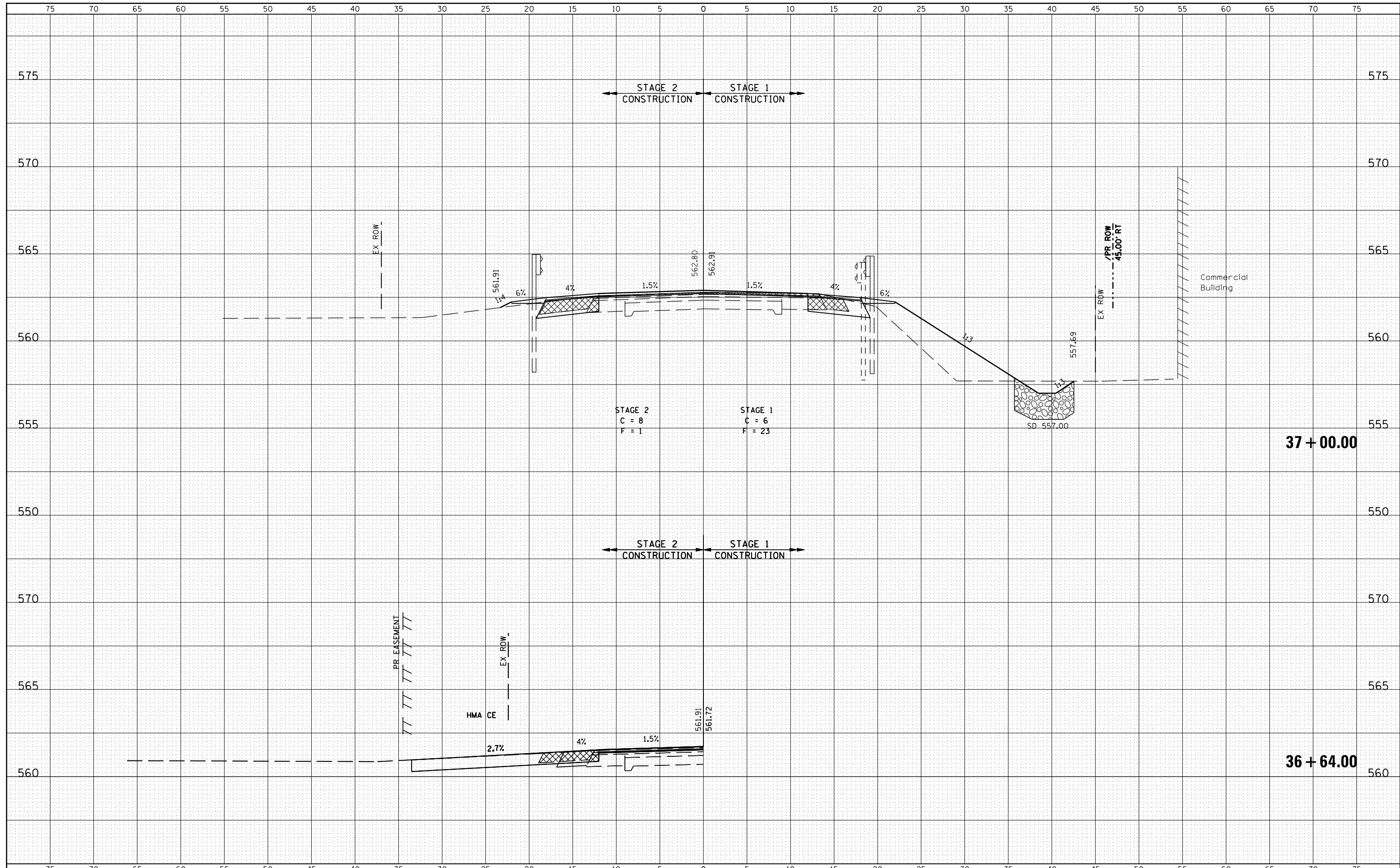
**CROSS SECTIONS - IL ROUTE 96**  
 SCALE: SHEET NO. OF SHEETS STA. 35+00.000 STA. 35+82.45

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	123 B-1	HANCOCK	70	60
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 72992	



DATE	
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SURVEYED	
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TEMPLATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
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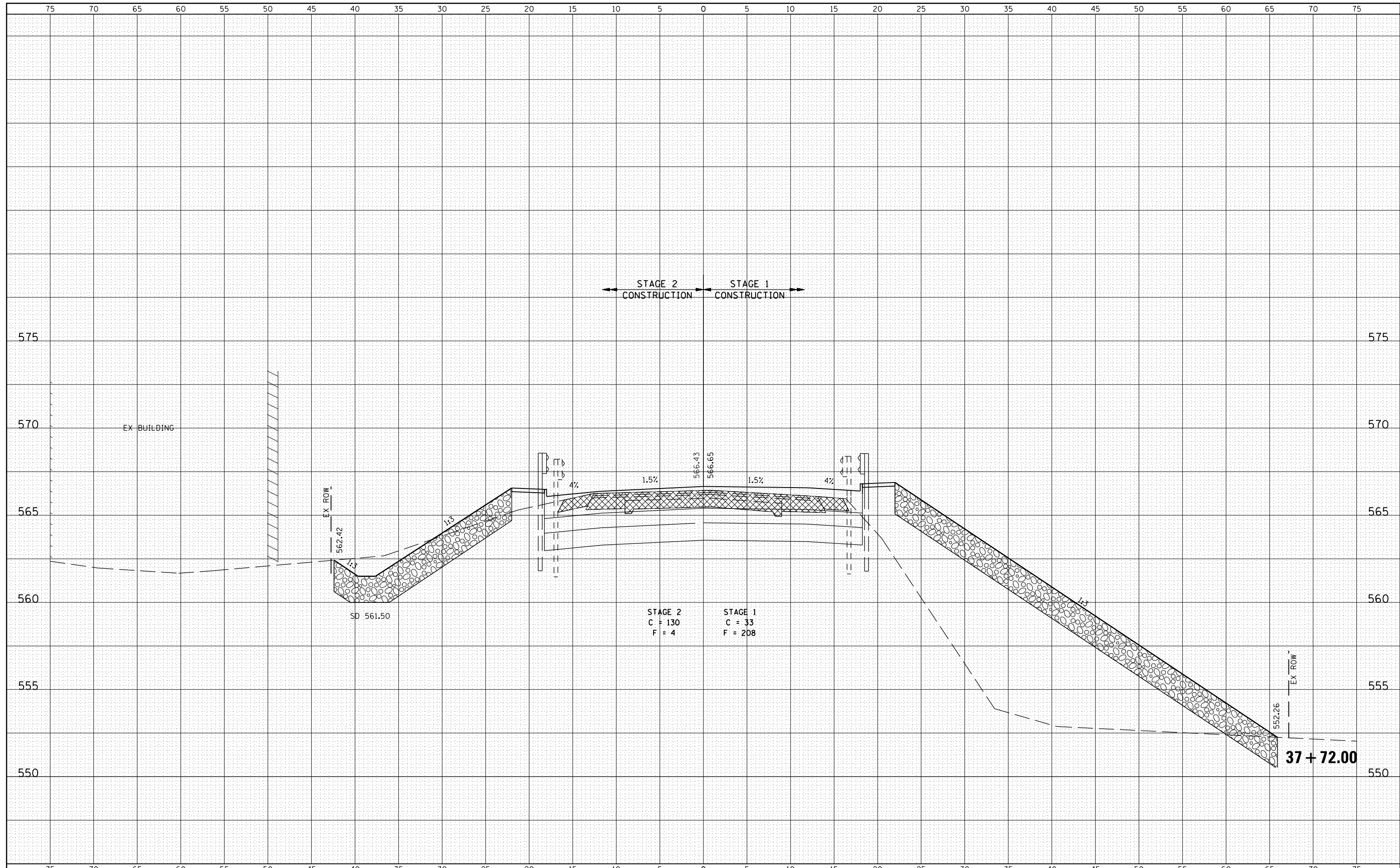
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	PLOT DATE = Aug-11-2010 10:40:00AM	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS CHECKED
	AREAS CHECKED



FILE NAME =  
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USER NAME = laughl1nr1  
 96.SHT  
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 PLOT DATE = Aug-11-2010 10:40:01AM

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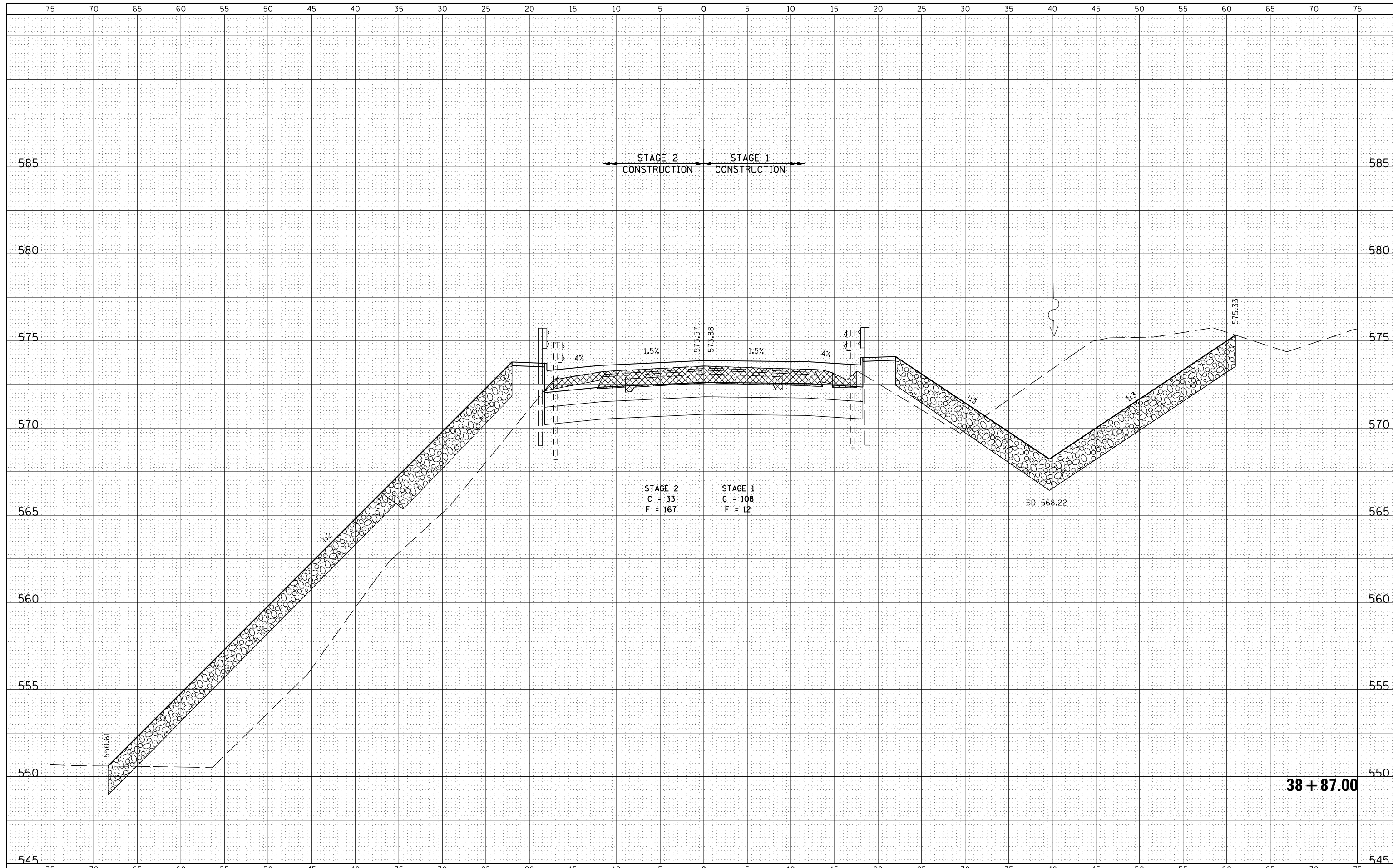
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - IL ROUTE 96**  
 SCALE: SHEET NO. OF SHEETS STA. 37+72.00 STA. 37+72.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	123 B-1	HANCOCK	70	63
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 72992	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED AREAS CHECKED	
FINAL SURVEY NO.	
NOTE BOOK NO.	
PLATTED TEMPLATE AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED AREAS CHECKED	
FINAL SURVEY NO.	
NOTE BOOK NO.	
PLATTED TEMPLATE AREAS CHECKED	

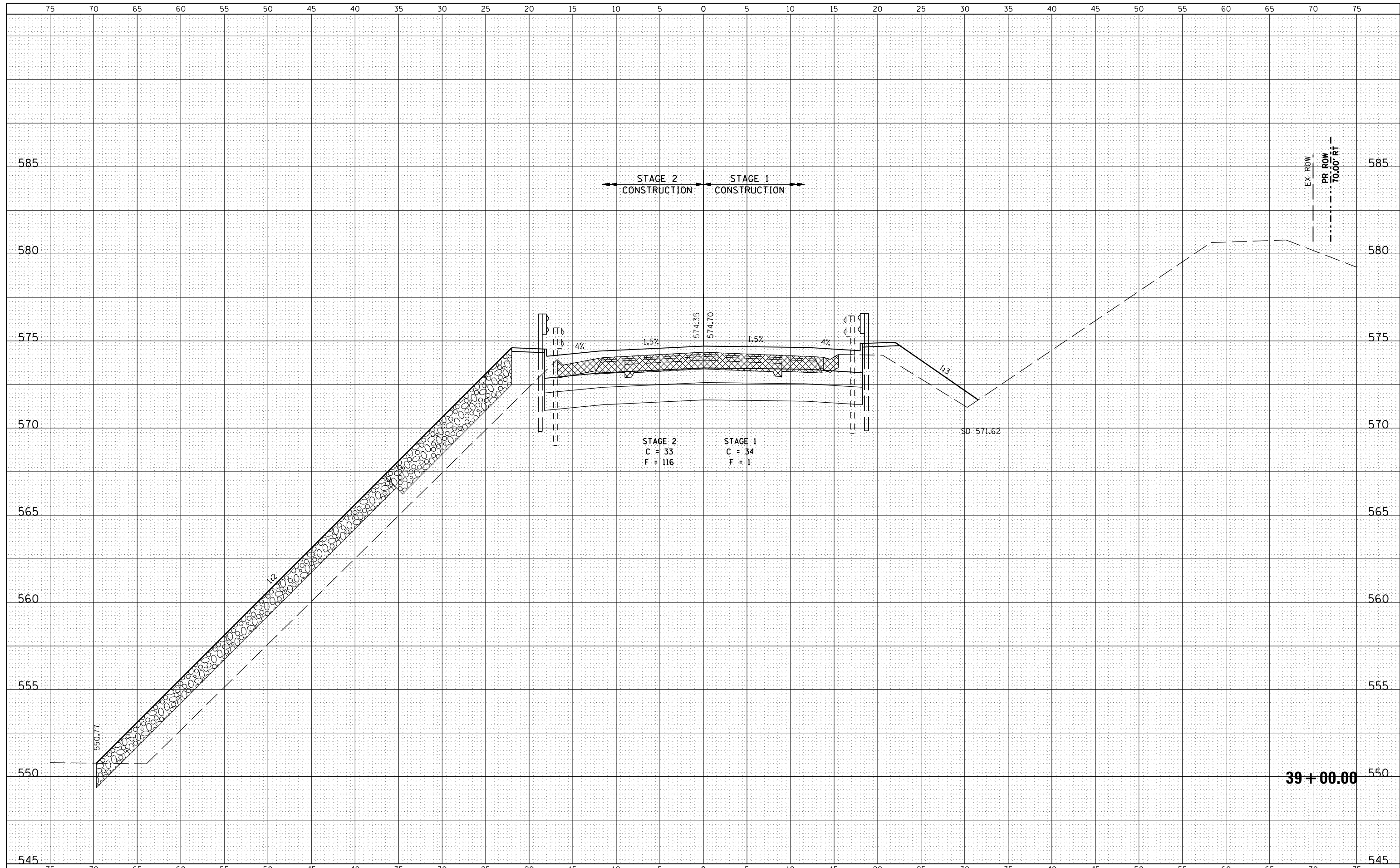


FILE NAME =	USER NAME = laughl1nr1	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS - IL ROUTE 96</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pw_work\pwidot\laughl1nr1\d0230976\B007XS.IL	96.SHT	DRAWN -	REVISIED -		506	123 B-1	HANCOCK	70	64			
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	PLOT DATE = Aug-11-2010 10:40:01AM	DATE -	REVISIED -		SCALE:	SHEET NO. OF SHEETS	STA. 38+87.00 STA.	38+87.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

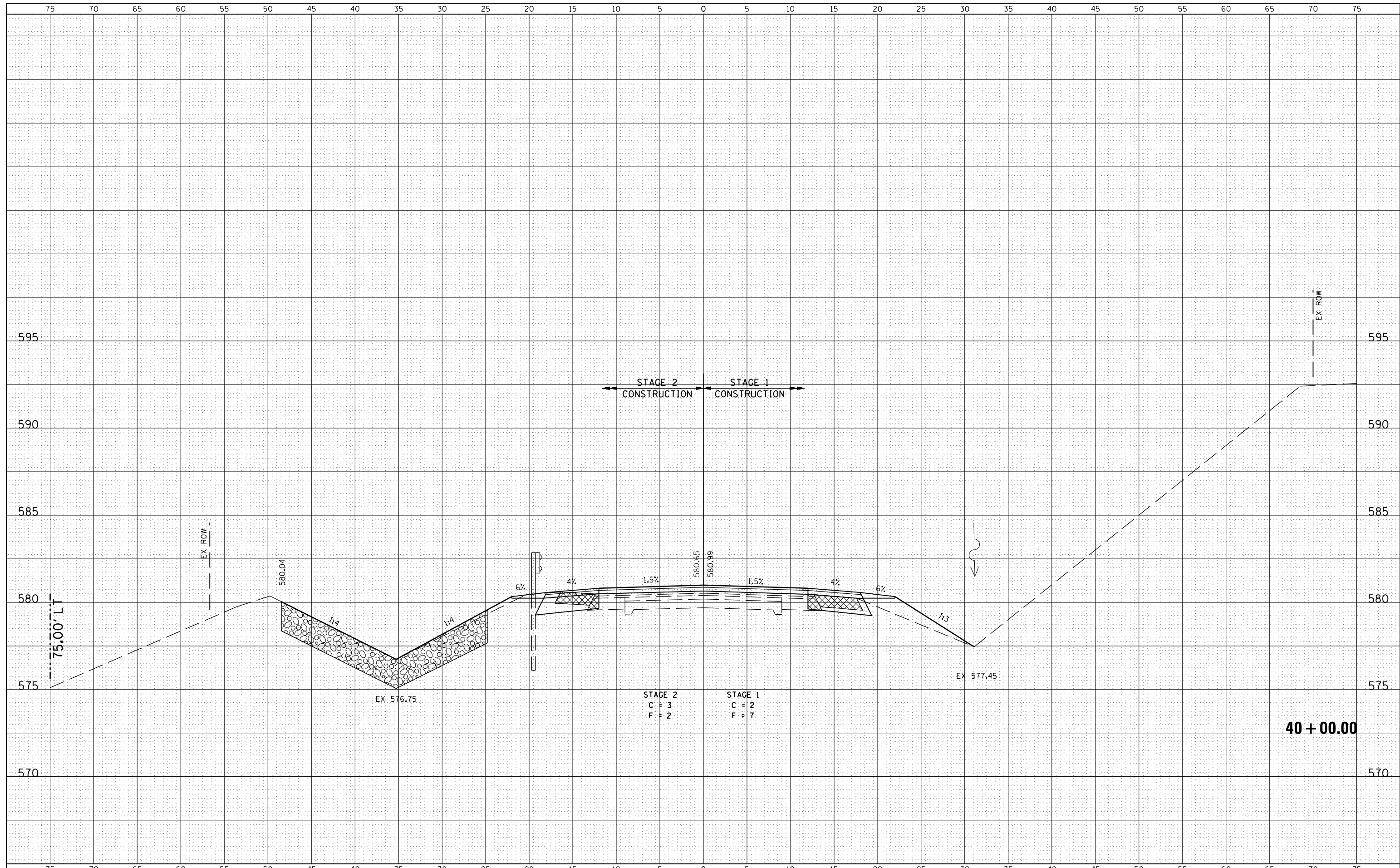
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



FILE NAME =	USER NAME = laughl1nr1	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS - IL ROUTE 96</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FINAL SURVEY	
NOTE BOOK	
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NOTE BOOK	
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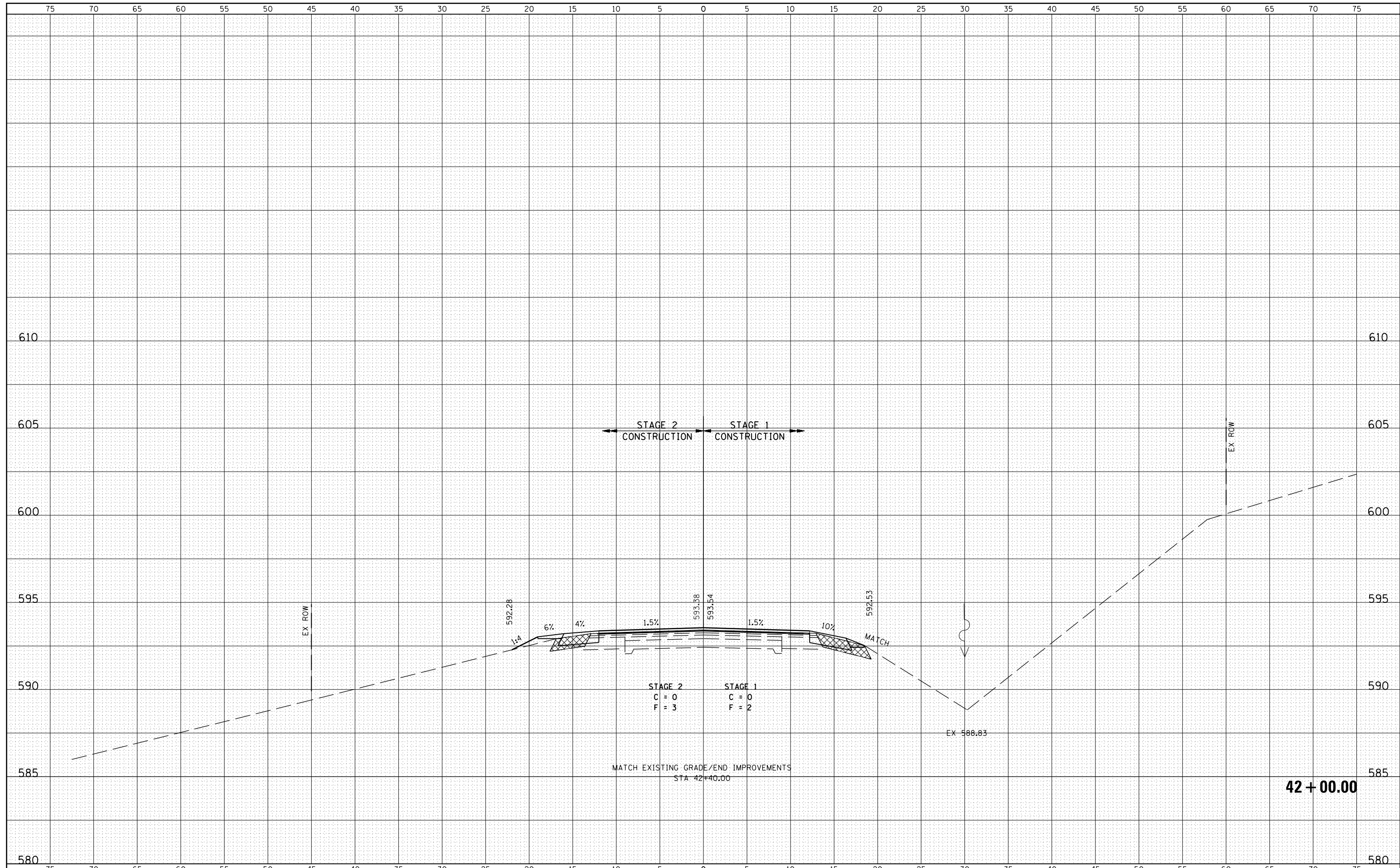
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PLOT DATE = Aug-11-2010 10:40:02AM	DATE -	REVISED -										





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	AREAS CHECKED

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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



**42 + 00.00**

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS - IL ROUTE 96</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.						
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											CONTRACT NO. 72992		ILLINOIS FED. AID PROJECT				

