

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
HIGHWAY IMPROVEMENT

FAI ROUTE 70 (I-70) AND FAI ROUTE 57/70 (I-57/70) AND FAI ROUTE 57/70 (I-57/70)
SECTION (25-3)B SECTION (25-3)R, BY SECTION (25-3)BR
EFFINGHAM COUNTY
SOUTH TRI LEVEL INTERCHANGE RECONSTRUCTION
AND CULVERT TUNNEL EXTENSIONS
AND LITTLE WABASH RIVER BRIDGE REPLACEMENT
AND BRIDGE REPAIR

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)R, BY, BR, B	EFFINGHAM	1416	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 74296		

* 1416 + 4 = 1420

INDEX OF SHEETS

1	COVER SHEET	
2-8	COMBINED SUMMARY OF QUANTITIES	
9-124	SET 1 SECTION (25-3)B	(LITTLE WABASH)
125-1338	SET 2 SECTION (25-3)R & (25-3)BY	(SOUTH TRI LEVEL)
1339-1416	SET 3 SECTION (25-3)BR	(BRIDGE REPAIR)

STANDARDS

202001-02	483001-04	602701-02	635011-02	701456
280001-05	515001-03	604001-03	637006-02	701901-01
420001-07	542101-02	604006-04	642001-01	704001-06
420101-04	542201-02	604081-04	665001-02	720001-01
420206-08	542206-01	604101-01	667101-01	720006-02
420306-06	542301-02	606001-04	701101-02	720011-01
420401-08	542401-01	609001-05	701106-02	720021-02
420601-05	542606-01	610001-05	701201-03	780001-02
420701-02	601001-03	630001-08	701400-04	781001-03
421001-02	601101-01	630101-08	701401-05	836001
421101-07	602106-01	630301-05	701402-07	000001-05
421106-07	602301-02	631011-06	701406-05	001001-02
442101-07	602306-02	631031-08	701411-06	001006
482006-03	602401-02	635001-01	701426-03	BLR 21-8
482011-03	602601-02	635006-03	701451-01	BLR 22-6
			701301-03	BLR 22-6

SET 2
SECTION (25-3)BY INCLUDES EXTENSION OF THE REINFORCED CONCRETE BOX CULVERTS FOR THE STRUCTURES CARRYING EASTBOUND AND WESTBOUND FAI ROUTES 57/70 OVER FRONTAGE ROAD 1354 STA 2076+03.28 EB I-57/70 (ROADWAY B) AND STA 2073+18.78 WB I-57/70 (ROADWAY A)
SN 025-2018 EB
SN 025-2017 WB

SET 3 - LOCATION 1
SECTION (25-3)BY-2 INCLUDES MICROSILOCA OVERLAY, BEARING REPLACEMENT, SEISMIC CABLE RESTRAINTERS AND MISC. CONCRETE REPAIR FOR THE STRUCTURE CARRYING SOUTHBOUND FAI-57 OVER EASTBOUND FAI-70. STA 5029+52.21 (RDWY C)
SN 025-0001

SET 1
SECTION (25-3)B ENDS
STA 2015+00.00

SET 1
SECTION (25-3)B INCLUDES REPLACEMENT OF EXISTING STRUCTURE WITH A NEW 5-SPAN BULB T-BEAM SUPER-STRUCTURE ON REINFORCED CONCRETE PIERS AND ABUTMENTS CARRYING EB & WB FAI ROUTE 70 OVER LITTLE WABASH RIVER
SN 025-0107 EB (EX. SN 025-0009 EB)
SN 025-0108 WB (EX. SN 025-0010 WB)

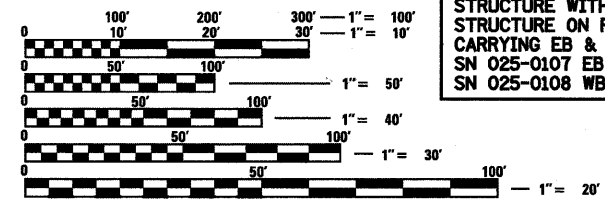
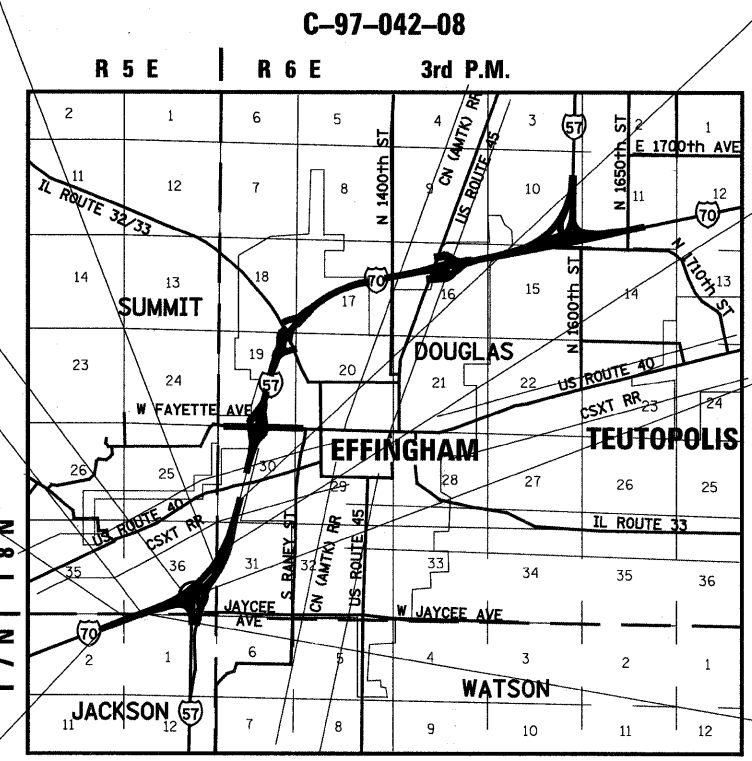
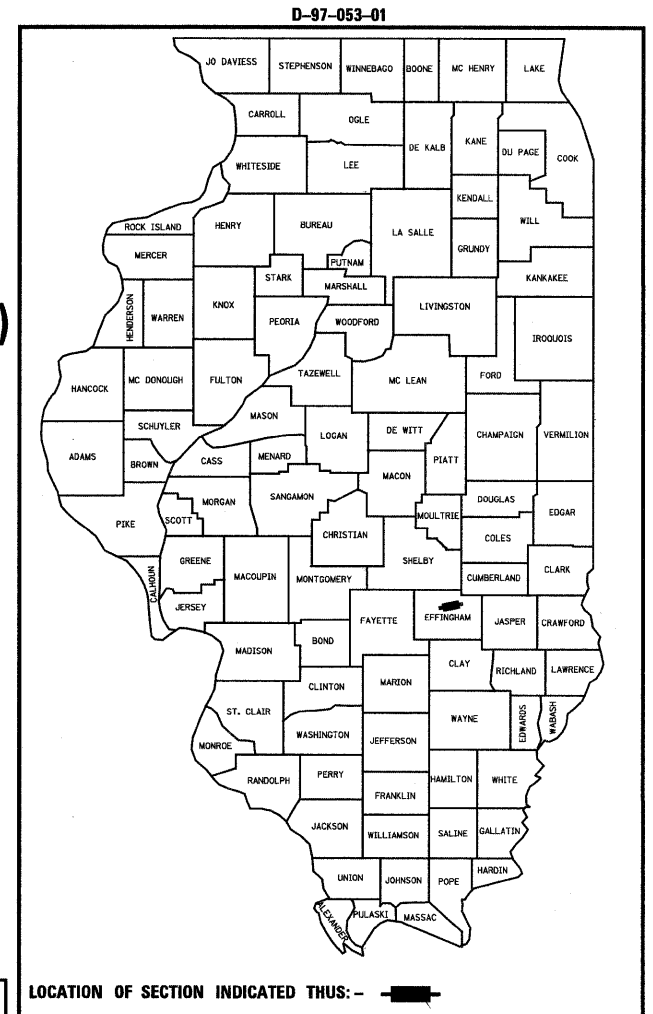
SET 1
SECTION (25-3)B BEGINS
STA 1997+75.00

SET 2
SECTION (25-3)R ENDS
STA 2103+44.00

STATION EQUATION
BK STA 2093+00.73 ROADWAY B=
AH STA 2090+18.51 I57/70

SET 3 - LOCATION 2
SECTION (25-3)BY-3 INCLUDES BEARING REPLACEMENT, SEISMIC CABLE RESTRAINTERS AND MISC. CONCRETE REPAIR FOR THE STRUCTURE CARRYING RAMP F (WESTBOUND FAI-70) OVER SOUTHBOUND FAI-57 AND EASTBOUND FAI-70
STA 6+84.16 (RAMP F)
SN 025-0018

SET 2
SECTION (25-3)R BEGINS
STA 2015+00.00



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: TOM RONAN (217)342-8320

CONTRACT NO. 74296

DESIGN DESIGNATION

7070 (30) PRINCIPAL ARTERIAL INTERSTATE 130.64 (CRCP-20) JACKSON, SUMMIT AND DOUGLAS TOWNSHIP

ADT 45,400 (2010)	FAI 57/70	45% TRUCKS
ADT 18,800 (2010)	FAI 57	44% TRUCKS
ADT 27,000 (2010)	FAI 70	46% TRUCKS

LOCATION MAP



NET SET 1 SECTION LENGTH = 1,725.00 FEET = 0.327 MILES
NET SET 2 SECTION LENGTH = 9,126.22 FEET = 1.728 MILES
NET SET 3 SECTION LENGTH = 446.11 FEET = 0.084 MILES
TOTAL LENGTH = 11,297.33 FEET = 2.139 MILES



Brian R. Mueller
ILLINOIS PROFESSIONAL ENGINEER NO. 062-052018 DATE 03-23-10
EXP. 11-30-2011

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED March 24 2010
Rozalyn D. Duckell
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 7 2010
Scott E. Stitt P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

May 7 2010
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER



BERNARDIN * LOCHMUELLER & ASSOCIATES, INC.
3 OAK DRIVE
MARYVILLE, ILLINOIS 62062
PHONE (618) 288-4665
FAX (618) 288-4666

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS COMBINED

1 COVER SHEET
1A DETAILED INDEX OF SHEETS
2-8 COMBINED SUMMARY OF QUANTITIES
9-124 SET 1 SECTION (25-3)B (LITTLE WABASH)
125-1338 SET 2 SECTION (25-3)R & (25-3)BY (SOUTH TRI LEVEL)
1339-1416 SET 3 SECTION (25-3)BR (BRIDGE REPAIR)

INDEX OF SHEETS SET 1

9 TITLE SHEET
10-11 GENERAL NOTES, INDEX OF SHEETS AND STANDARDS
12-13 SUMMARY OF QUANTITIES
14 TYPICAL SECTIONS - EXISTING
15 TYPICAL SECTIONS - PROPOSED
16-17 SCHEDULE OF QUANTITIES
18-19 HORIZONTAL CONTROLS AND TIE POINTS
20-21 PLAN AND PROFILE
22-27 MAINTENANCE OF TRAFFIC CONSTRUCTION DETAILS
28-29 EROSION AND SEDIMENT CONTROL PLANS
30-31 REMOVAL PLANS
32 MISCELLANEOUS DETAILS
33-90 STRUCTURE PLANS
91-124 CROSS SECTIONS - I 70

INDEX OF SHEETS SET 2

125 TITLE SHEET
126-127 GENERAL NOTES, INDEX OF SHEETS AND STANDARDS
128-130 SUMMARY OF QUANTITIES
131-135 TYPICAL SECTIONS - EXISTING
136-153 TYPICAL SECTIONS - PROPOSED
154-160 SCHEDULE OF QUANTITIES
161-170 HORIZONTAL CONTROLS AND TIE POINTS
171 SUPERELEVATION TABLES
172-198 PLAN AND PROFILE
199-248 MAINTENANCE OF TRAFFIC CONSTRUCTION DETAILS
249 WB FAI-70 RAMP F DETOUR PLAN
250-259 EROSION AND SEDIMENT CONTROL PLANS
260-286 DRAINAGE PLAN AND PROFILE
287-289 INTERCHANGE LAYOUT
290-292 INTERCHANGE ROADWAY PLAN
293-299 INTERCHANGE SHEAR LINE DETAIL
300-306 INTERCHANGE GRADING PLAN
307-318 RAMP AND ROADWAY TERMINAL DETAILS
319-330 RAMP AND ROADWAY TERMINAL PAVEMENT ELEVATION DETAIL
331-342 RAMP AND ROADWAY TERMINAL JOINTING DETAILS
343-352 PAVEMENT MARKING PLANS
353-359 SIGNING DETAILS
359A SIGNING DETAILS
360-385 SIGNING DETAILS
386-389 SOIL BORING LOGS
390-412 LIGHTING PLANS
413 DELETED
414-426 LIGHTING PLANS
426A TRAFFIC COUNTER DETAIL
427-436 REMOVAL PLANS
437-439 DELINEATOR DETAILS
440-441 MISCELLANEOUS DETAILS
442-452 CULVERT DETAILS
452A CULVERT DETAILS
453-458 CULVERT DETAILS
459-466 BOX CULVERT TUNNEL PLANS ROADWAY A SN 025-2017
467-475 BOX CULVERT TUNNEL PLANS ROADWAY B SN 025-2018
476-492 CULVERT PROFILES
493-494 CROSS SECTIONS - I-70 WEST
495-602 CROSS SECTIONS - ROADWAY B
603-616 CROSS SECTIONS - I-57/70
617-741 CROSS SECTIONS - ROADWAY A
742-754 CROSS SECTIONS - ROADWAY C
755-771 CROSS SECTIONS - ROADWAY D
772-783 CROSS SECTIONS - RAMP F
784-798 CROSS SECTIONS - RAMP G
799-800 CROSS SECTIONS - FRONTAGE ROAD 1354
801-1338 MAINTENANCE OF TRAFFIC CROSS SECTIONS

INDEX OF SHEETS SET 3

1339 TITLE SHEET
1340 GENERAL NOTES, INDEX OF SHEETS AND STANDARDS
1341 SUMMARY OF QUANTITIES
1342 TYPICAL SECTIONS - EXISTING
1343 SCHEDULE OF QUANTITIES
1344-1349 HORIZONTAL CONTROL
1350-1351 PLAN AND PROFILE
1352 SURFACE TRANSITION DETAILS
1353 MAINTENANCE OF TRAFFIC AND STAGE CONSTRUCTION DETAILS
1354 ROAD CLOSURE AND DETOUR PLANS
1355-1381 BRIDGE REPAIR PLANS - ROADWAY C SN 025-0001
1382-1416 BRIDGE REPAIR PLANS - RAMP F SN 025-0018
1416A BRIDGE REPAIR PLANS - RAMP F SN 025-0018

FILE NAME = USER NAME = lsnda DESIGNED - JWS REVISIONS: 4-20-10, 5-21-10
DRAWN - PDB CHECKED - BRM DATE - 03-30-10
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAILED INDEX OF SHEETS
SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.
F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
57/70 (25-3)R, BY EFFINGHAM 1416 1A
CONTRACT NO. 74296
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES

CODED NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE																
				(25-3)B			(25-3)R				(25-3)BY			(25-3)BR						
				100% STATE ROADWAY J000-2A	100% STATE BRIDGE SN 025-0107 EB & SN 025-0108 X031-2A	100% STATE IMPACT ATTENUATORS SFTY-3N	100% STATE ROADWAY J000-2A	100% STATE ROADWAY 1000	100% STATE SIGNING Y02-1C	100% STATE IMPACT ATTENUATORS SFTY-3N	100% STATE BOX CULVERTS TUNNEL SN 025-2018 EB X228-2A	100% STATE BOX CULVERTS TUNNEL SN 025-2017 WB X228-2A	100% STATE BRIDGE 025-0001 X271-2A	100% STATE BRIDGE 025-0018 X271-2A						
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	866	12			854													
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	869	36			833													
20100500	TREE REMOVAL, ACRES	ACRE	16.75	0.5			16.25													
20200100	EARTH EXCAVATION	CU YD	119780	6315			113465													
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	705				370					60	29					240		
20400800	FURNISHED EXCAVATION	CU YD	91325	6265			85060													
20700220	POROUS GRANULAR EMBANKMENT	CU YD	324									60	29						235	
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	1044		460							350	234							
20800150	TRENCH BACKFILL	CU YD	972				972													
* 21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	210992	21837			189155													
* 25000200	SEEDING, CLASS 2	ACRE	47.75	6.25			41.5													
* 25000300	SEEDING, CLASS 3	ACRE	1.25				1.25													
* 25000350	SEEDING, CLASS 7	ACRE	62.5	6.25			56.25													
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	4411	563			3848													
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	4411	563			3848													
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	4411	563			3848													
* 25000700	AGRICULTURAL GROUND LIMESTONE	TON	2.5				2.5													
* 25000750	MOWING	ACRE	49	6.25			42.75													
* 25100120	MULCH, METHOD 2	TON	98	12.5			85.5													
* 25100630	EROSION CONTROL BLANKET	SQ YD	4536				4536													
28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	30	20			10													
28000305	TEMPORARY DITCH CHECKS	FOOT	7380	322			7058													
28000400	PERIMETER EROSION BARRIER	FOOT	28188	2704			25484													
28000500	INLET AND PIPE PROTECTION	EACH	65	3			62													
28001000	AGGREGATE (EROSION CONTROL)	TON	22	19			3													
28100105	STONE RIPRAP, CLASS A3	SQ YD	976				976													
28100107	STONE RIPRAP, CLASS A4	SQ YD	12802	91	2130		10581													
28200200	FILTER FABRIC	SQ YD	12802	91	2130		10581													
30200650	PROCESSING MODIFIED SOIL 12"	SQ YD	132106	10010			122096													
30201500	LIME	TON	1141.1	252.3			888.8													
30201800	SLAG-MODIFIED PORTLAND CEMENT	TON	1724.5				1724.5													
31101100	SUB-BASE GRANULAR MATERIAL, TYPE B	CU YD	2757				2757													
31200500	STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"	SQ YD	136991	10010			126981													
35100700	AGGREGATE BASE COURSE, TYPE A 8"	SQ YD	5116				5116													
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	400				400													
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	2060				2060													
40300300	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	GALLON	5371				5371													
40300500	COVER COAT AGGREGATE	TON	102				102													
40300600	SEAL COAT AGGREGATE	TON	51				51													
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	1288	14					1234									40		
40600300	AGGREGATE (PRIME COAT)	TON	26.3	0.3					25									1		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	588	176														412		
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	111															111		
40600990	TEMPORARY RAMP	SQ YD	269						220									49		
40603550	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N105	TON	1257	12					1204									41		

* Specialty Items

FILE NAME =	USER NAME = bctay	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COMBINED SUMMARY OF QUANTITIES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
S:\Project\183\183-77\Ag\15 Trk\summary.combined.dwg		DRAWN - ESW	REVISED -			57/70	(25-3)R, BY, BR, B	EFFINGHAM	1416	2	
		CHECKED - BRM	REVISED -			CONTRACT NO. 74296					
		DATE - 09-18-09	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

Rev.

SUMMARY OF QUANTITIES

CODED NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE																
				(25-3)B			(25-3)R			(25-3)Y			(25-3)R							
				100% STATE ROADWAY J000-2A	100% STATE BRIDGE SN 025-0107 EB & SN 025-0108 X031-2A	100% STATE IMPACT ATTENUATORS SFTY-3N	100% STATE ROADWAY J000-2A	100% STATE ROADWAY 1000	100% STATE SIGNING Y002-1C	100% STATE IMPACT ATTENUATORS SFTY-3N	100% STATE SN025-0099 SN025-0100	100% STATE BOX CULVERTS TUNNEL SN 025-2018 EB X228-2A	100% STATE BOX CULVERTS TUNNEL SN 025-2017 WB X228-2A	100% STATE BRIDGE 025-0001 X271-2A	100% STATE BRIDGE 025-0018 X271-2A					
40800010	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	77				77													
40800030	AGGREGATE (PRIME COAT)	TON	2				2													
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	349				349													
42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	4594				4594													
42000540	PORTLAND CEMENT CONCRETE PAVEMENT 12"	SQ YD	31393	1426			28992												975	
42001200	PAVEMENT FABRIC	SQ YD	31415	1426			28992	22											975	
42001300	PROTECTIVE COAT	SQ YD	12352	1426			10926													
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	284				284													
42001500	P.C. CONCRETE BRIDGE APPROACH SHOULDER PAVEMENT	SQ YD	11				11													
42100360	CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 13"	SQ YD	124143	9342			114801													
42100960	PAVEMENT REINFORCEMENT 13"	SQ YD	124143	9342			114801													
42101080	WIDE FLANGE BEAM TERMINAL JOINT COMPLETE (SPECIAL)	EACH	4	4																
42101300	PROTECTIVE COAT	SQ YD	126011	11210			114801													
44000100	PAVEMENT REMOVAL	SQ YD	75297	6522			68775													
44000192	HOT-MIX ASPHALT REMOVAL (SPECIAL)	SQ YD	4682				4682													
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	16468					16468												
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2397				2397													
44000700	APPROACH SLAB REMOVAL	SQ YD	479	427			52													
44004000	PAVED DITCH REMOVAL	FOOT	1532				1532													
44004250	PAVED SHOULDER REMOVAL	SQ YD	38208	4413			32845												950	
44004400	PAVEMENT REMOVAL (SPECIAL)	SQ YD	29495	1019			28476													
44201043	CLASS B PATCHES, TYPE II, 16 INCH	SQ YD	492					492												
44201047	CLASS B PATCHES, TYPE III, 16 INCH	SQ YD	22					22												
44213200	SAW CUTS	FOOT	2866					2866												
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	7528	555			6973													
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	81					81												
48203037	HOT-MIX ASPHALT SHOULDERS, 10"	SQ YD	214	214																
48203100	HOT-MIX ASPHALT SHOULDERS	TON	734					723											11	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	2		2															
50102400	CONCRETE REMOVAL	CU YD	211.4				37.7				6.5	50.9	23.8					44	48.5	
50104400	CONCRETE HEADWALL REMOVAL	EACH	7				7													
50104650	SLOPE WALL REMOVAL	SQ YD	1826	1408															59	359
50105220	PIPE CULVERT REMOVAL	FOOT	296	15			281													
50157300	PROTECTIVE SHIELD	SQ YD	436								20							244	172	
50200100	STRUCTURE EXCAVATION	CU YD	1477		1441													24	12	
50200300	COFFERDAM EXCAVATION	CU YD	4172		4172															
50202901	COFFERDAM (LOCATION - 1)	EACH	1		1															
50202902	COFFERDAM (LOCATION - 2)	EACH	1		1															
50202903	COFFERDAM (LOCATION - 3)	EACH	1		1															
50202904	COFFERDAM (LOCATION - 4)	EACH	1		1															
50300100	FLOOR DRAINS	EACH	109		108															
50300225	CONCRETE STRUCTURES	CU YD	1809		1715.6													49.8	43.6	
50300254	RUBBED FINISH	SQ FT	737															323	414	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	2076.9		1944.7						7.2							42.9	82.1	
50300260	BRIDGE DECK GROOVING	SQ YD	5605		4861		12											652	80	

FILE NAME =	USER NAME = paul	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COMBINED SUMMARY OF QUANTITIES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
S:\projects\103\103-77\103-77.dgn		DRAWN - ESW	REVISED -			57/70	(25-3)R, BY, BR, B	EFFINGHAM	1416	3	
PLOT SCALE = 100.0000' / IN.		CHECKED - BRM	REVISED -			CONTRACT NO. 74296					
PLOT DATE = 3/23/2018		DATE - 09-18-09	REVISED -			SCALE:	SHEET NO. 2 OF 7 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODED NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE													
				(25-3)B			(25-3)R			(25-3)BY			(25-3)BR				
				100% STATE ROADWAY J000-2A	100% STATE BRIDGE SN 025-0107 EB & SN 025-0108 X031-2A	100% STATE IMPACT ATTENUATORS SFTY-3N	100% STATE ROADWAY J000-2A	100% STATE ROADWAY I000	100% STATE SIGNING Y002-1C	100% STATE IMPACT ATTENUATORS SFTY-3N	100% STATE SN025-0099 SN025-0100 SETLI-2A	100% STATE BOX CULVERTS TUNNEL SN 025-2018 EB X228-2A	100% STATE BOX CULVERTS TUNNEL SN 025-2017 WB X228-2A	100% STATE BRIDGE 025-0001 X271-2A	100% STATE BRIDGE 025-0018 X271-2A		
50300265	SEAL COAT CONCRETE	CU YD	698		698												
50300280	CONCRETE ENCASEMENT	CU YD	70.8		70.8												
50300300	PROTECTIVE COAT	SQ YD	7135.4		6091							26.4				819	199
50400745	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BULB T-BEAMS 72"	FOOT	6387		6387												
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	17305													7466	9839
50500715	JACK AND REMOVE EXISTING BEARINGS	EACH	26													18	8
50600600	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1													1	
50600700	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1														1
50800105	REINFORCEMENT BARS	POUND	141,080					141,080									
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	780,410		671,250			1370				2050	43260	29800	12170	20510	
50800515	BAR SPLICERS	EACH	4015		3898											86	31
51100100	SLOPE WALL 4 INCH	SQ YD	400													48	352
51201800	FURNISHING STEEL PILES HP 14X73	FOOT	17566	148	17344			74									
51202305	DRIVING PILES	FOOT	17566	148	17344			74									
51203800	TEST PILE STEEL HP14X73	EACH	12		12												
51500100	NAME PLATES	EACH	4		2								1	1			
52000110	PREFORMED JOINT STRIP SEAL	FOOT	334		184											91	59
52000320	NEOPRENE EXPANSION JOINT 2"	FOOT	232													111	121
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	26													18	8
52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	28		28												
52100505	ANCHOR BOLTS, 5/8"	EACH	56		56												
52100520	ANCHOR BOLTS, 1"	EACH	36													36	
52100530	ANCHOR BOLTS, 1 1/4"	EACH	166		32											72	62
52100540	ANCHOR BOLTS, 1 1/2"	EACH	16														16
54002020	EXPANSION BOLTS 3/4 INCH	EACH	248					118					96	34			
54003000	CONCRETE BOX CULVERTS	CU YD	891.5					463.7					255.3	172.5			
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	121					121									
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	204	14				190									
542A0253	PIPE CULVERTS, CLASS A, TYPE 1 48"	FOOT	9					9									
542A1069	PIPE CULVERTS, CLASS A, TYPE 2 24"	FOOT	297	118				179									
542A1081	PIPE CULVERTS, CLASS A, TYPE 2 36"	FOOT	27					27									
542A1093	PIPE CULVERTS, CLASS A, TYPE 2 48"	FOOT	88					88									
542A1099	PIPE CULVERTS, CLASS A, TYPE 2 54"	FOOT	83					83									
542A1129	PIPE CULVERTS, CLASS A, TYPE 2 84"	FOOT	16					16									
542A1921	PIPE CULVERTS, CLASS A, TYPE 3 36"	FOOT	40					40									
542A2809	PIPE CULVERTS, CLASS A, TYPE 4 84"	FOOT	67					67									
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	36					36									
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	94					94									
542D0241	PIPE CULVERTS, CLASS D, TYPE 1 36"	FOOT	39					39									
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	4					4									
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	4	2				2									
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	2					2									
54213693	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 48"	EACH	4					4									
54213729	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 84"	EACH	1					1									
54215424	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 24"	EACH	2					2									

Rev. 5-26-10

FILE NAME =
 USER NAME = paul
 DESIGNED - ESW
 DRAWN - ESW
 CHECKED - BRM
 DATE - 09-18-09

REVISIONS
 REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

COMBINED SUMMARY OF QUANTITIES

SCALE: SHEET NO. 3 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)R, BY, BR, B	EFFINGHAM	1416	4
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 74296	

SUMMARY OF QUANTITIES

CODED NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE																
				(25-3)B			(25-3)R				(25-3)Y			(25-3)BR						
				100% STATE ROADWAY J000-2A	100% STATE BRIDGE SN 025-0107 EB & SN 025-0108 X031 - 2A	100% STATE IMPACT ATTENUATORS SFTY-3N	100% STATE ROADWAY J000-2A	100% STATE ROADWAY I000	100% STATE SIGNING Y002-1C	100% STATE IMPACT ATTENUATORS SFTY-3N	100% STATE BOX CULVERTS TUNNEL SN 025-2018 EB X228 - 2A	100% STATE BOX CULVERTS TUNNEL SN 025-2017 WB X228 - 2A	100% STATE BRIDGE 025-0001 X271 - 2A	100% STATE BRIDGE 025-0018 X271 - 2A						
54215448	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 48"	EACH	2				2													
54215454	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 54"	EACH	1				1													
54215484	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 84"	EACH	1				1													
54215550	METAL END SECTIONS 15"	EACH	3				3													
54215553	METAL END SECTIONS 18"	EACH	1				1													
54215559	METAL END SECTIONS 24"	EACH	6				6													
54215571	METAL END SECTIONS 36"	EACH	3				3													
54217680	REINFORCED CONCRETE PIPE TEE, 24" PIPE WITH 24" RISER	EACH	4	2			2													
54248500	CONCRETE HEADWALLS	CU YD	1.7				1.7													
54248510	CONCRETE COLLAR	CU YD	9.5	0.4			9.1													
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	2420				2420													
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	231	231																
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	1415				1415													
55101200	STORM SEWER REMOVAL 24"	FOOT	136				136													
58700300	CONCRETE SEALER	SQ FT	14436		2727							7511	798	1938	1462					
59000200	EPOXY CRACK INJECTION	FOOT	102									70	32							
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	614		185							258	171							
60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	103	20			83													
60100955	PIPE DRAINS 15"	FOOT	98				98													
60100965	PIPE DRAINS 18"	FOOT	94				94													
60100985	PIPE DRAINS 24"	FOOT	147				147													
60101305	PIPE DRAINS 36"	FOOT	27				27													
60107600	PIPE UNDERDRAINS 4"	FOOT	3353				3353													
60107700	PIPE UNDERDRAINS 6"	FOOT	40190	4800			35390													
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	76				76													
60108200	PIPE UNDERDRAINS 6" (SPECIAL)	FOOT	902	120			782													
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	599		325							164	110							
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1				1													
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1				1													
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	1				1													
60240220	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	EACH	15				15													
60246605	MEDIAN INLET (604101)	EACH	4	2			2													
60255500	MANHOLES TO BE ADJUSTED	EACH	1	1																
60262700	INLETS TO BE RECONSTRUCTED	EACH	1				1													
60270055	DRAINAGE STRUCTURES, TYPE 5 WITH TWO TYPE 22 FRAME AND GRATES	EACH	9				9													
60500040	REMOVING MANHOLES	EACH	1				1													
60500060	REMOVING INLETS	EACH	5				5													
60500305	FILLING INLETS	EACH	1	1																
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	3222				3222													
60618324	CONCRETE MEDIAN SURFACE, 6 INCH (SPECIAL)	SQ FT	27820				27820													
60900230	TYPE C INLET BOX, STANDARD 609001 (SPECIAL)	EACH	1				1													
60900515	CONCRETE THRUST BLOCKS	EACH	9	2			7													
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	14250	1687.5			12562.5													
* 63000005	STEEL PLATE BEAM GUARD RAIL, TYPE B	FOOT	50				50													
* 63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	36				36													

*Specialty Items

SUMMARY OF QUANTITIES

CODED NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE															
				(25-3)B			(25-3)R			(25-3)BY			(25-3)BR						
				100% STATE ROADWAY J000-2A	100% STATE BRIDGE SN 025-0107 EB & SN 025-0108 X031-2A	100% STATE IMPACT ATTENUATORS SFTY-3N	100% STATE ROADWAY J000-2A	100% STATE ROADWAY 1000	100% STATE IMPACT ATTENUATORS SFTY-3N	100% STATE BOX CULVERTS TUNNEL SN 025-2018 EB X228-2A	100% STATE BOX CULVERTS TUNNEL SN 025-2017 WB X228-2A	100% STATE BRIDGE 025-0001 X271-2A	100% STATE BRIDGE 025-0018 X271-2A						
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	13	2			11												
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	14	6			8												
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	15	4			11												
63200310	GUARDRAIL REMOVAL	FOOT	12267	1675			10592												
63200400	CABLE ROAD GUARD REMOVAL	FOOT	2193				2193												
70500100	TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	395				395												
63301210	REMOVE AND RE-ERECT STEEL PLATE BEAM GUARD RAIL TYPE A	FOOT	1479				425												
63500105	DELINEATORS	EACH	241				241												
63700275	CONCRETE BARRIER, DOUBLE FACE, 42 INCH HEIGHT	FOOT	1349				1349												
63700900	CONCRETE BARRIER BASE	FOOT	1870				1870												
64200105	SHOULDER RUMBLE STRIPS	FOOT	53872	5554			40092	8226											
66500105	WOVEN WIRE FENCE, 4'	FOOT	2149				2149												
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	48				48												
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2	2															
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	27				27												
67000600	ENGINEER'S FIELD LABORATORY	CAL MO	27				27												
67100100	MOBILIZATION	L SUM	1	0.2			0.76										0.02	0.02	
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2					2											
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1					1											
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1					1											
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1					1											
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	L SUM	1					1											
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.2			0.76										0.02	0.02	
70101900	TRAFFIC CONTROL AND PROTECTION (DETOUR 1)	L SUM	1				0.5											0.5	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	50	10			38										1	1	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	25				25												
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	3993					3969										24	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	67193	11250			46147	9514										282	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	11066	1407			8795	829										35	
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	6213				5589	624											
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1190				1103	87											
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	33704	4454			24592	4546										112	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	26762.5	3562.5			22800											400	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	29512.5	3562.5			25550											400	
* 72000100	SIGN PANEL - TYPE 1	SQ FT	95				95												
* 72000200	SIGN PANEL - TYPE 2	SQ FT	48				48												
* 72000300	SIGN PANEL - TYPE 3	SQ FT	2945	158.0			2400.5	186.5											
* 72400330	REMOVE SIGN PANEL - TYPE 3	SQ FT	1213				798.75	414.25											
* 72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	9440				513	8927											
* 72700200	TUBULAR STEEL SIGN SUPPORT - BREAKAWAY	POUND	307				307												
* 73000100	WOOD SIGN SUPPORT	FOOT	130				130												
* 73300100	OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")	FOOT	286	100			226												
* 73305000	OVERHEAD SIGN STRUCTURE WALKWAY	FOOT	174	32			142												

*Specialty Items

SUMMARY OF QUANTITIES

CODED NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE													
				(25-3)B			(25-3)R				(25-3)BY			(25-3)BR			
				100% STATE ROADWAY J000-2A	100% STATE BRIDGE SN 025-0107 EB & SN 025-0108 X031-2A	100% STATE IMPACT ATTENUATORS SFTY-3N	100% STATE ROADWAY J000-2A	100% STATE ROADWAY 1000	100% STATE SIGNING Y002-1C	100% STATE IMPACT ATTENUATORS SFTY-3N	100% STATE BOX CULVERTS TUNNEL SN 025-2018 EB X228-2A	100% STATE BOX CULVERTS TUNNEL SN 025-2017 WB X228-2A	100% STATE BRIDGE 025-0001 X271-2A	100% STATE BRIDGE 025-0018 X271-2A			
73400100	CONCRETE FOUNDATIONS	CU YD	70.2	13.4				56.8									
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	34.9					34.9									
73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	4	1				3									
73700100	REMOVE GROUND-MOUNTED SIGN SUPPORT	EACH	7					7									
73700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	8	2				6									
73700200	REMOVE CONCRETE FOUNDATION - GROUND MOUNT	EACH	7					7									
78006100	PREFORMED THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	119.2					119.2									
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1091	66				953	72								
78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	29	24					5								
78200410	GUARDRAIL MARKERS, TYPE A	EACH	112	25				87									
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	15	4				11									
80400100	ELECTRIC SERVICE INSTALLATION	EACH	2					2									
81021550	CONDUIT, AUGERED 2" DIA., PVC	FOOT	154					154									
81021570	CONDUIT, AUGERED 3" DIA., PVC	FOOT	592					592									
81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	640					640									
81100605	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	50					50									
81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	18					18									
81603000	UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	3187					3187									
81603030	UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	12046					12046									
81603040	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	21,770					21,770									
81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	1145					1145									
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	1120					1120									
81800200	AERIAL CABLE, 2-1/C NO. 4 WITH MESSENGER WIRE	FOOT	2210					2210									
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	30120					30120									
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	116					116									
82103900	LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 250 WATT	EACH	16					16									
82107300	UNDERPASS LUMINAIRE, 150 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	2					2									
82109105	SIGN LIGHTING (HIGH PRESSURE SODIUM)	EACH	17					17									
82500360	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 100AMP	EACH	1					1									
82500380	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP	EACH	1					1									
83004600	LIGHT POLE, ALUMINIUM, 50 FT. M.H., 15 FT. DAVIT ARM	EACH	116					116									
83057310	LIGHT POLE, WOOD, 55 FOOT, CLASS 4	EACH	16					16									
83600357	LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 8" X 8"	EACH	113					113									
83800650	BREAKAWAY DEVICE, COUPLING, WITH STAINLESS STEEL SCREEN	EACH	308					308									
84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	16					16									
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	9					9									
84200804	REMOVAL OF POLE FOUNDATION	EACH	3					3									
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	3					3									
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	2					2									
X0321778	SEISMIC RESTRAINER	EACH	28												12	16	
X0322729	MATERIAL TRANSFER DEVICE	TON	1257	12					1204						41		
X0322936	REMOVE EXISTING FLARED END SECTION	EACH	4					4									
X0323236	TEMPORARY INLET	EACH	3					3									
X0323388	TRAFFIC COUNTER	EACH	2					2									
X0323644	PAVEMENT MARKING GROOVING	FOOT	85343	12657				61632	11054								
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1638			1638											
X0324865	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	4630			4630											

**Specialty Items*

Rev.

FILE NAME =	USER NAME = paul	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COMBINED SUMMARY OF QUANTITIES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
59\projects\MS\002\237\paul\15 Trk\summary\combined.qip	PLOT SCALE = 100.0000' / IN.	DRAWN - ESW	REVISED -			57/70	(25-3)R, BY, BR, B	EFFINGHAM	1416	7	
	PLOT DATE = 3/23/2018	CHECKED - BRM	REVISED -			CONTRACT NO. 74296					
		DATE - 09-18-09	REVISED -			ILLINOIS FED. AID PROJECT					

SUMMARY OF QUANTITIES

CODED NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE													
				(25-3)B			(25-3)R			(25-3)Y			(25-3)BR				
				100% STATE ROADWAY J000-2A	100% STATE BRIDGE SN 025-0107 EB & SN 025-0108 X031-2A	100% STATE IMPACT ATTENUATORS SFTY-3N	100% STATE ROADWAY J000-2A	100% STATE ROADWAY I000	100% STATE SIGNING Y002-1C	100% STATE IMPACT ATTENUATORS SFTY-3N	100% STATE SN 025-0099 SN 025-0100 SFTY-2A	100% STATE BOX CULVERTS TUNNEL SN 025-2018 EB X228-2A	100% STATE BOX CULVERTS TUNNEL SN 025-2017 WB X228-2A	100% STATE BRIDGE 025-0001 X271-2A	100% STATE BRIDGE 025-0018 X271-2A		
X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	862													388	474
X0325605	PAVEMENT MARKING GROOVING	SQ FT	401					401									
X0358300	REMOVE AND RELAY END SECTIONS	EACH	1					1									
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1		1												
X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH	1		1												
X5020503	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 3	EACH	1		1												
X5020504	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 4	EACH	1		1												
X5041800	CONCRETE ANCHORS	EACH	30					30									
X5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO.1	L SUM	1														
X5080600	MECHANICAL SPLICERS	EACH	1752		1548												
X5060602	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO.2	L SUM	1									204					
X6370250	CONCRETE BARRIER, VARIABLE CROSS SECTION 42" HEIGHT	FOOT	521					521									
XT013015	TRAFFIC CONTROL FOR ROAD CLOSURE	L SUM	1					1									
* X7800610	URETHANE PAVEMENT MARKING - LINE 4"	FOOT	66911	11250				46147	9514								
* X7800630	URETHANE PAVEMENT MARKING - LINE 6"	FOOT	11031	1407				8795	829								
* X7800640	URETHANE PAVEMENT MARKING - LINE 8"	FOOT	6213					5589	624								
* X7800650	URETHANE PAVEMENT MARKING - LINE 12"	FOOT	1190					1103	87								
XZ193500	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/4"	SQ YD	591													591	
Z0012200	CONCRETE BRIDGE DECK SCARIFICATION (1/2 INCH)	SQ YD	652													652	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.2				0.76							0.02	0.02	
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	25												14	11	
Z0017100	DOWEL BARS	EACH	1204						1204								
Z0018800	DRAINAGE SYSTEM	L SUM	1														1
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	9		1				7						1		
Z0030330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	1						1								
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	13		1				11						1		
Z0054505	ROCK FILL - REPLACEMENT	TON	791					791									
Z0065730	SLOPE WALL SLURRY PUMPING	CU YD	341														341
Z0076850	UNSOUND CONCRETE REMOVAL	SQ YD	15.8												10.8	5	
* A2C05065	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), CONTAINER GROWN, 5-GALLON	EACH	200					200									
* A2C07063	TREE, TAXODIUM DISTICHUM (BALD CYPRESS), CONTAINER GROWN, 3-GALLON	EACH	200					200									
* B2001116	TREE, CERCIS CANADENSIS (EASTERN REDBUD), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	350					350									
* B2001464	TREE, CORNUS MAS (CORNELIAN CHERRY DOG WOOD), 5' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	200					200									
* B2006316	TREE, SYRINGA RETICULATA IVORY SILK (IVORY SILK JAPANESE TREE LILAC), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	200					200									
* C2002048	SHRUB, CORYLUS AMERICANA (AMERICAN FILBERT), 4' HEIGHT, BALLED AND BURLAPPED	EACH	875					875									
* C2005965	SHRUB, RHUS GLABRA (SMOOTH SUMAC), 5-GALLON	EACH	875					875									
* C2C00363	SHRUB, AMOUPHA FRUITCOSA (INDIGO BUSH), CONTAINER GROWN, 3-GALLON	EACH	875					875									
* C2C00663	SHRUB, ARONIA MELANOCARPA VIKING (VIKING BLACK CHOKEBERRY), CONTAINER GROWN, 3-GALLON	EACH	875					875									
* C2C005724	SHRUB, RHUS AROMATICA (FRAGRANT SUMAC), 2' WIDTH, CONTAINER	EACH	875					875									
* C2C11624	SHRUB, VIBURNUM CARLESI (KOREANSPICE VIBURNUM), 2' HEIGHT, CONTAINER	EACH	875					875									
* C2C11736	SHRUB, VIBURNUM DENTATUM (ARROWWOOD VIBURNUM), 3' HEIGHT, CONTAINER	EACH	860					860									
* D2002972	EVERGREEN, PINUS STROBUS (EASTERN WHITE PINE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	210					210									
* X7800100	PREFORMED THERMOPLASTIC PAVEMENT MARKING SHIELD	EACH	4					4									
X6023800	REMOVE AND RELOCATE INLETS	EACH	1	1													

* Specialty Items

Rev. 5-26-10

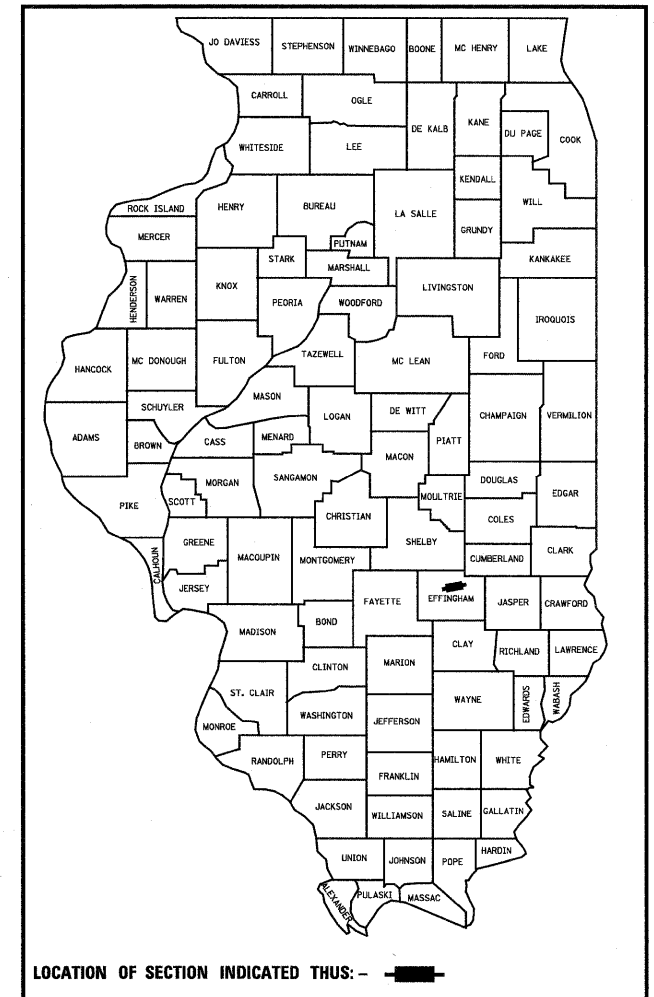
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-3)B	EFFINGHAM	1416	9
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 74296		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

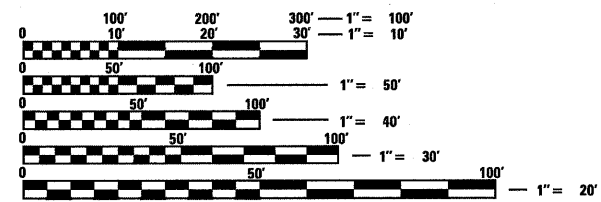
PLANS FOR PROPOSED
HIGHWAY IMPROVEMENT

FAI ROUTE 70 (I-70)
SECTION (25-3)B
EFFINGHAM COUNTY
LITTLE WABASH RIVER BRIDGE REPLACEMENT

FOR INDEX OF SHEETS, SEE SHEET NO. 10



LOCATION OF SECTION INDICATED THIS: - [Symbol] -



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

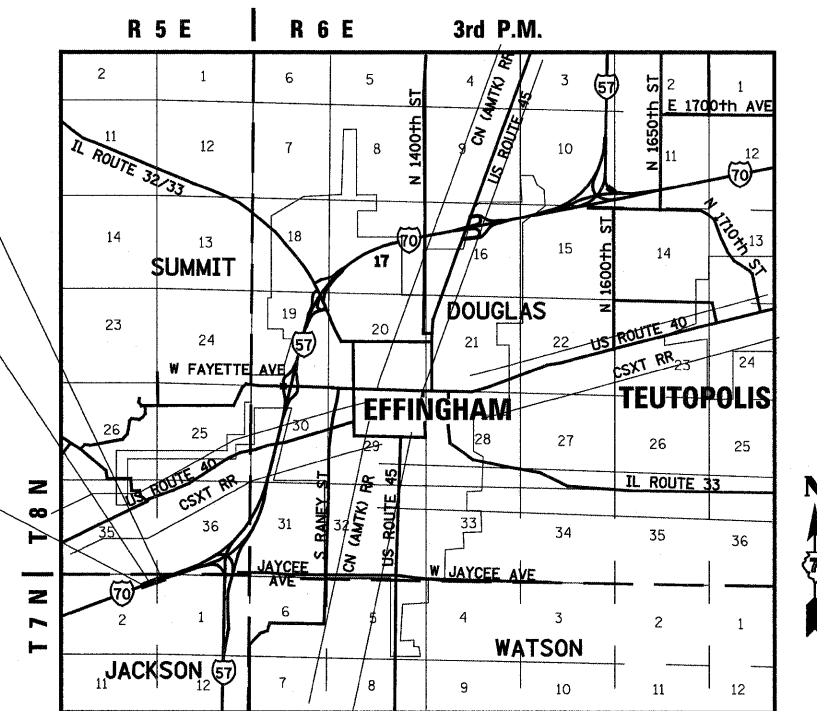
PROJECT ENGINEER: TOM RONAN (217)342-8320

CONTRACT NO. 74296

SECTION (25-3)B INCLUDES REPLACEMENT OF EXISTING STRUCTURES WITH NEW 5-SPAN BULB T-BEAM SUPER-STRUCTURE ON REINFORCED CONCRETE PIERS AND ABUTMENTS CARRYING EB & WB FAI ROUTE 70 OVER LITTLE WABASH RIVER
SN 025-0107 EB (EX. SN 025-0009 EB)
SN 025-0108 WB (EX. SN 025-0010 WB)

SECTION (25-3)B ENDS STA 2015+00.00

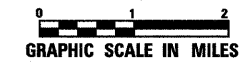
SECTION (25-3)B BEGINS STA 1997+75.00



LOCATION MAP

JACKSON AND SUMMIT TOWNSHIPS

DESIGN DESIGNATION
7070 (30) PRINCIPAL ARTERIAL INTERSTATE 86.75 (CRCP-20)
ADT 27,000 (2010) FAI 70
46% TRUCKS



GROSS SECTION LENGTH = 1,725.00 FEET = 0.327 MILES
NET SECTION LENGTH = 1,725.00 FEET = 0.327 MILES

SET 1 OF 3



BERNARDIN * LOCHMUELLER & ASSOCIATES, INC.
3 OAK DRIVE
MARYVILLE, ILLINOIS 62062
PHONE (618) 288-4665
FAX (618) 288-4666

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

MIXTURE REQUIREMENTS
THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT

	INTERSTATE RESURFACING AND RECONSTRUCTION		
	STABILIZED SUBBASE HOT-MIX ASPHALT	POLYMERIZED HMA SURFACE COURSE	HOT-MIX ASPHALT SHOULDERS
PG GRADE	PG 64-22	SBS PG 70-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ Ndes=30	4.0% @ Ndes=105	4.0% @ Ndes=30
MIXTURE COMPOSITION	IL-19.0L	IL-9.5	IL-19.0L
FRICTION AGGREGATE	N/A	MIXTURE D	N/A

INDEX OF SHEETS

9 TITLE SHEET
10-11 GENERAL NOTES, INDEX OF SHEETS AND STANDARDS
12-13 SUMMARY OF QUANTITIES
14 TYPICAL SECTIONS - EXISTING
15 TYPICAL SECTIONS - PROPOSED
16-17 SCHEDULE OF QUANTITIES
18-19 HORIZONTAL CONTROLS AND TIE POINTS
20-21 PLAN AND PROFILE
22-27 MAINTENANCE OF TRAFFIC CONSTRUCTION DETAILS
28-29 EROSION AND SEDIMENT CONTROL PLANS
30-31 REMOVAL PLANS
32 MISCELLANEOUS DETAILS
33-90 STRUCTURE PLANS
91-124 CROSS SECTIONS - I 70

IDOT HIGHWAY STANDARDS

280001-05 TEMPORARY EROSION CONTROL SYSTEMS
420001-07 PAVEMENT JOINTS
420601-05 24' (7.2 M) PCC PAVEMENT
420701-02 PAVEMENT FABRIC
421001-02 BAR REINFORCEMENT FOR CRC PAVEMENT
421101-07 24' (7.2 M) CRC PAVEMENT
482006-03 HMA SHOULDER ADJACENT TO RIGID PAVEMENT
515001-03 NAME PLATE FOR BRIDGES
542301-02 PRECAST REINFORCED CONCRETE FLARED END SECTION
542606-01 REINFORCED CONCRETE PIPE TEE
601001-03 SUB-SURFACE DRAINS
601101-01 CONCRETE HEADWALL FOR PIPE DRAIN
604101-01 MEDIAN INLET FOR 600 MM (24") REINFORCED CONCRETE PIPE
630001-08 STEEL PLATE BEAM GUARDRAIL
630301-05 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-06 TRAFFIC BARRIER TERMINAL, TYPE 2
631031-08 TRAFFIC BARRIER TERMINAL, TYPE 6
635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02 REFLECTOR MARKER AND MOUNTING DETAILS
642001-01 SHOULDER RUMBLE STRIPS
667101-01 PERMANENT SURVEY MARKERS
701400-04 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-05 LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-07 LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701426-03 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS > 45 MPH
701901-01 TRAFFIC CONTROL DEVICES
704001-06 TEMPORARY CONCRETE BARRIER
780001-02 TYPICAL PAVEMENT MARKINGS
781001-03 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02 AREAS OF REINFORCEMENT BARS
001006 DECIMAL OF AN INCH AND A FOOT

FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, STANDARDS, AND INDEX OF SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
PLOT SCALE = 100.0000' / IN.						CHECKED - BRM	REVISED -	70	(25-3)B	EFFINGHAM	1416	10
PLOT DATE = 3/16/2010						DATE - 05-05-09	REVISED -	CONTRACT NO. 74296				
								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007; THE SUPPLEMENTAL SPECIFICATIONS AND THE RECURRING SPECIAL PROVISIONS, AND THE SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.
2. THE PROPOSED PROJECT IS LOCATED ON FAI-70 IN EFFINGHAM COUNTY.
3. THE WORK INCLUDED IN SECTION (25-3)B CONSISTS OF 0.3 MILES OF PAVEMENT RECONSTRUCTION TO FACILITATE THE INTERSTATE RECONSTRUCTION ON FAI ROUTE 70 AND THE REMOVAL AND REPLACEMENT OF THE STRUCTURES CARRYING FAI ROUTE 70 OVER THE LITTLE WABASH RIVER.
4. ALL ELEVATIONS REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.
5. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
6. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
7. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY ALSO BE OBTAINED BY CALLING J.U.L.I.E. AND FOR NON-J.U.L.I.E. MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS.
 - AMEREN / CIPS GAS / ELECTRIC
 - ILLINOIS CONSOLIDATED TELEPHONE
 - CITY OF EFFINGHAM WATER / SEWER

(MEMBERS OF J.U.L.I.E. (800) 892-0123 ARE INDICATED BY •
NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.)
8. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE AREA LOCATED INSIDE THE CONSTRUCTION LIMITS SHOWN ON THE PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTORS EXPENSE.
9. ALL AREAS DISTURBED FOR ANY REASON SHALL BE SEEDDED WITH CLASS 2 SEEDING AS DIRECTED BY THE ENGINEER. NUTRIENTS SHALL CONFORM TO ARTICLE 250.04 OF THE STANDARD SPECIFICATIONS. ANY SEEDING REQUIRED OUTSIDE THE CONSTRUCTION LIMITS OR RIGHT OF WAY FOR THIS CONTRACT SECTION WILL NOT BE PAID FOR SEPARATELY AND CONSIDERED AS A CONTRACTOR'S EXPENSE.
10. MULCH SHALL CONFORM TO SECTION 251 OF THE STANDARD SPECIFICATIONS. MULCH, UNLESS OTHERWISE PERMITTED BY THE ENGINEER, SHALL CONFORM TO METHOD 2, PROCEDURE OR AS SPECIFIED IN ARTICLE 251.03.
11. IN ADDITION TO SURVEYS, SOME OF THE PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING CONDITIONS HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NORMAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF THE WORK. THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
12. THE THICKNESS OF HOT-MIX ASPHALT MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS TO THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
13. ANY EXCAVATION ADJACENT TO EDGE OF PAVEMENTS SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES AND APPROPRIATE LIGHTS.
14. FULL DEPTH SAW CUTTING AT THE EDGE OF PAVEMENT WILL BE REQUIRED IN ORDER TO REMOVE EXISTING PAVEMENTS OR SHOULDERS. THIS SAW CUTTING WILL NOT BE PAID FOR SEPARATELY BUT CONSIDERED AS INCLUDED IN THE COST OF THE RESPECTIVE REMOVAL ITEMS.
15. ANY FACILITIES OR APPURTENANCES WHICH ARE THE PROPERTY OF ANY PUBLIC UTILITY LOCATED WITHIN THE LIMITS OF CONSTRUCTION, SHALL BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE OWNERS OF SUCH FACILITIES IN THEIR REMOVAL AND REARRANGEMENT OPERATIONS IN ORDER THAT THESE OPERATIONS AND THE CONSTRUCTION OF THIS PROJECT MAY PROGRESS IN A REASONABLE MANNER.
16. THE REMOVAL OF MISCELLANEOUS BITUMINOUS SURFACES PLACED ON SHOULDERS OR OTHER AREAS FOR MAINTENANCE OPERATIONS WILL NOT BE PAID FOR SEPARATELY BUT INCLUDED FOR PAYMENT AS EARTH EXCAVATION.
17. ALL CONFLICTING GROUND MOUNTED SIGNS AND SIGN SUPPORTS ARE TO BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE DONE IN ACCORDANCE WITH SECTIONS 724 OF THE STANDARD SPECIFICATIONS EXCEPT THAT IT WILL NOT BE MEASURED FOR PAYMENT BUT CONSIDERED AS INCLUDED IN THE VARIOUS ITEMS OF WORK. SIGNS SHALL BE STORED AS DIRECTED BY THE ENGINEER AND CAREFULLY PROTECTED BY THE CONTRACTOR.
18. THE MATERIAL USED FOR AGGREGATE SHOULDERS, TYPE B SHALL BE CRUSHED STONE OR CRUSHED CONCRETE.
19. ALL WARNING SIGNS SHALL BE 48" FLUORESCENT ORANGE.
20. ON ROADWAYS CARRYING STAGE CONSTRUCTION TRAFFIC, SHOULDER RUMBLE STRIPS SHALL NOT BE INSTALLED UNTIL TRAFFIC IS NO LONGER ON SHOULDER.
21. CONNECTION OF PROPOSED STORM SEWERS AND/OR PIPE UNDERDRAINS TO DRAINAGE STRUCTURES OR CULVERTS SHALL BE DONE IN A MANNER MEETING THE APPROVAL OF THE ENGINEER AND SHALL CONFORM TO SECTION 501 OF THE STANDARD SPECIFICATIONS. THE COST OF THIS CONNECTION WILL NOT BE PAID FOR SEPARATELY, BUT CONSIDERED AS INCLUDED IN THE COST OF THE PROPOSED STORM SEWER AND/OR PIPE UNDERDRAINS.
22. THE CONTRACTOR SHALL EXERCISE CARE IN TREE REMOVAL OPERATIONS AND TAKE WHATEVER PRECAUTIONS NECESSARY TO REMOVE ONLY THOSE TREES NECESSARY TO THE CONSTRUCTION OF THIS PROJECT AS DIRECTED BY THE ENGINEER.
23. EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
24. THE RESIDENT ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE CURING TIME FOR ALL HOT-MIX ASPHALT RESURFACING LIFTS.
25. FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.
26. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT PRIOR WRITTEN PERMISSION FROM THE DEPARTMENT.
27. THE CONTRACTOR SHALL USE EITHER RC-70, SS1H, OR SS1HP, APPLIED AT THE RATE DIRECTED BY THE ENGINEER, FOR THE PAY ITEM BITUMINOUS MATERIALS (PRIME COAT).
28. STATION/OFFSETS FOR PROPOSED DRAINAGE STRUCTURES IS TO THE CENTER OF THE STRUCTURE. GRATE ELEVATIONS ARE TO THE FLOW LINE OF THE PROPOSED GRATE OR LID. (SEE DRAINAGE DETAILS)
29. SOME EXISTING STORM SEWER AND DRAINAGE STRUCTURE INFORMATION USED ON THESE PLANS WERE DEVELOPED FROM OFFICE RECORDS OR OTHERWISE HISTORICAL DATA. FINAL ELEVATIONS FOR INCORPORATING EXISTING DRAINAGE FACILITIES INTO THE PROPOSED SYSTEM SHALL BE DETERMINED BY THE ENGINEER. ALL SIZES AND DIMENSIONS OF THE EXISTING FACILITIES SHALL BE VERIFIED BEFORE ORDERING NEW MATERIALS.
30. EXISTING STORM SEWERS AND PIPE CULVERTS THAT ARE NOT BEING REMOVED UNDER THIS CONTRACT AND ARE NO LONGER REQUIRED OR IT IS INDICATED ON THE PLANS TO BE ABANDONED, SHALL BE FILLED WITH A CONTROLLED LOW STRENGTH MIXTURE AND THE ENDS PLUGGED. SEE SPECIAL PROVISIONS.
31. DELINEATOR REMOVAL IS INCLUDED IN THE COST OF EARTH EXCAVATION. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR DELINEATOR REMOVAL.
32. ALL EXISTING PIPE UNDERDRAINS AND HEADWALLS SHALL BE REMOVED. PIPE UNDERDRAIN REMOVAL AND PIPE UNDERDRAIN HEADWALL REMOVAL SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
33. THE EXCAVATION AND BEDDING REQUIRED FOR RR 4 RIPRAP AS DESCRIBED IN ARTICLE 281.04 OF THE STANDARD SPECIFICATIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE PAY ITEM STONE RIPRAP, CLASS A4.
34. TRANSVERSE EXPANSION JOINTS SHALL BE CONSTRUCTED AT THE END OF ALL RECONSTRUCTED PAVEMENTS TIEING THEM TO EXISTING PAVEMENTS. THE EXPANSION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HIGHWAY STANDARD 420001 WITH THE DOWEL BARS EMBEDDED INTO THE EXISTING PAVEMENT. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE OF THE VARIOUS PAVEMENTS AND/OR SHOULDERS.
35. EXISTING SUBBASE GRANULAR MATERIAL AS DEPICTED ON EXISTING TYPICAL SECTIONS SHALL BE REMOVED AND COST IS INCLUDED IN EARTH EXCAVATION. THIS MATERIAL MAY BE USED IN EMBANKMENT CONSTRUCTION IN ACCORDANCE WITH ARTICLE 205.04 OR AS OTHERWISE DIRECTED BY THE ENGINEER.
COMMITMENT - NONE

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

NITROGEN FERTILIZER NUTRIENT	90	LBS / ACRE
PHOSPHORUS FERTILIZER NUTRIENT	90	LBS / ACRE
POTASSIUM FERTILIZER NUTRIENT	90	LBS / ACRE
AGRICULTURAL GROUND LIMESTONE	2	TONS / ACRE
MULCH, METHOD 2	2	TONS / ACRE
AGGREGATE (EROSION CONTROL)	1.9	TONS / CU YD
LIME	0.1605	TONS / CU YD
BITUMINOUS MATERIALS (PRIME COAT)	0.075	GAL / SQ YD
AGGREGATE (PRIME COAT)	0.0015	TONS / SQ YD
HOT-MIX ASPHALT SURFACE COURSE	0.056	TONS / SQ YD / INCH

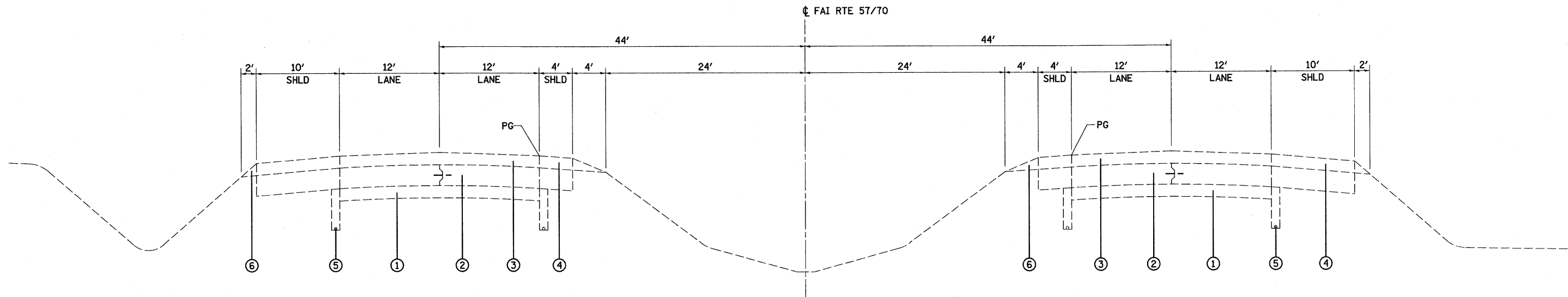
FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, STANDARDS, AND INDEX OF SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
S:\Projects\488-0000\70 Ltrc\kash\491000 Sheets\07979-01-gm-02.dwg	PLOT SCALE = 100.0000' / IN.	DRAWN - PDB	REVISED -			70	(25-3)B	EFFINGHAM	1416	11	
	PLOT DATE = 3/17/2010	CHECKED - BRM	REVISED -			CONTRACT NO. 74296					
		DATE - 02-25-08	REVISED -			SCALE:	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

CODED NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				100% STATE ROADWAY J000-2A	100% STATE BRIDGE SN 025-0107 EB & SN 025-0108 WB X031	100% STATE IMPACT ATTENUATORS SFTY-3N
	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	12	12		
	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	36	36		
	TREE REMOVAL, ACRES	ACRE	0.5	0.5		
	EARTH EXCAVATION	CU YD	6315	6315		
	FURNISHED EXCAVATION	CU YD	6265	6265		
	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	460		460	
	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	21837	21837		
	SEEDING, CLASS 2	ACRE	6.25	6.25		
	SEEDING, CLASS 7	ACRE	6.25	6.25		
	NITROGEN FERTILIZER NUTRIENT	POUND	563	563		
	PHOSPHORUS FERTILIZER NUTRIENT	POUND	563	563		
	POTASSIUM FERTILIZER NUTRIENT	POUND	563	563		
	MOWING	ACRE	6.25	6.25		
	MULCH, METHOD 2	TON	12.5	12.5		
	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	20	20		
	TEMPORARY DITCH CHECKS	FOOT	322	322		
	PERIMETER EROSION BARRIER	FOOT	2704	2704		
	INLET AND PIPE PROTECTION	EACH	3	3		
	AGGREGATE (EROSION CONTROL)	TON	19	19		
	STONE RIPRAP, CLASS A4	SQ YD	2221	91	2130	
	FILTER FABRIC	SQ YD	2221	91	2130	
	PROCESSING MODIFIED SOIL 12"	SQ YD	10010	10010		
	LIME	TON	252.3	252.3		
	STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"	SQ YD	10010	10010		
	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	14	14		
	AGGREGATE (PRIME COAT)	TON	0.3	0.3		
	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	176	176		
	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N105	TON	12	12		
	PORTLAND CEMENT CONCRETE PAVEMENT 12"	SQ YD	1426	1426		
	PAVEMENT FABRIC	SQ YD	1426	1426		
	PROTECTIVE COAT	SQ YD	1426	1426		
	CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 13"	SQ YD	9342	9342		
	PAVEMENT REINFORCEMENT 13"	SQ YD	9342	9342		
	WIDE FLANGE BEAM TERMINAL JOINT COMPLETE (SPECIAL)	EACH	4	4		
	PROTECTIVE COAT	SQ YD	11210	11210		
	PAVEMENT REMOVAL	SQ YD	6522	6522		
	APPROACH SLAB REMOVAL	SQ YD	427	427		
	PAVED SHOULDER REMOVAL	SQ YD	4413	4413		
	PAVEMENT REMOVAL (SPECIAL)	SQ YD	1019	1019		
	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	555	555		
	HOT-MIX ASPHALT SHOULDERS, 10"	SQ YD	214	214		
	REMOVAL OF EXISTING STRUCTURES	EACH	2		2	
	SLOPE WALL REMOVAL	SQ YD	1408	1408		
	PIPE CULVERT REMOVAL	FOOT	15	15		

CODED NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				100% STATE ROADWAY J000-2A	100% STATE BRIDGE SN 025-0107 EB & SN 025-0108 WB X031	100% STATE IMPACT ATTENUATORS SFTY-3N
	STRUCTURE EXCAVATION	CU YD	1441		1441	
	COFFERDAM EXCAVATION	CU YD	4172		4172	
	COFFERDAM (LOCATION - 1)	EACH	1		1	
	COFFERDAM (LOCATION - 2)	EACH	1		1	
	COFFERDAM (LOCATION - 3)	EACH	1		1	
	COFFERDAM (LOCATION - 4)	EACH	1		1	
	FLOOR DRAINS	EACH	108		108	
	CONCRETE STRUCTURES	CU YD	1715.6		1715.6	
	CONCRETE SUPERSTRUCTURE	CU YD	1944.7		1944.7	
	BRIDGE DECK GROOVING	SQ YD	4861		4861	
	SEAL COAT CONCRETE	CU YD	698		698	
	CONCRETE ENCASEMENT	CU YD	70.8		70.8	
	PROTECTIVE COAT	SQ YD	6091		6091	
	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BULB T-BEAMS 72"	FOOT	6387		6387	
	REINFORCEMENT BARS, EPOXY COATED	POUND	671250		671250	
	BAR SPLICERS	EACH	3898		3898	
	FURNISHING STEEL PILES HP 14X73	FOOT	17344		17344	
	DRIVING PILES	FOOT	17344		17344	
	TEST PILE STEEL HP14X73	EACH	12		12	
	NAME PLATES	EACH	2		2	
	PREFORMED JOINT STRIP SEAL	FOOT	184		184	
	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	28		28	
	ANCHOR BOLTS, 5/8"	EACH	56		56	
	ANCHOR BOLTS, 1 1/4"	EACH	32		32	
	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	14	14		
	PIPE CULVERTS, CLASS A, TYPE 2 24"	FOOT	118	118		
	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2	2		
	REINFORCED CONCRETE PIPE TEE, 24" PIPE WITH 24" RISER	EACH	2	2		
	CONCRETE COLLAR	EACH	1	1		
	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	231	231		
	CONCRETE SEALER	SQ FT	2727		2727	
	GEOCOMPOSITE WALL DRAIN	SQ YD	185		185	
	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	20	20		
	PIPE UNDERDRAINS 6"	FOOT	4800	4800		
	PIPE UNDERDRAINS 6" (SPECIAL)	FOOT	120	120		
	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	325		325	
	MEDIAN INLET (604101)	EACH	2	2		
	MANHOLES TO BE ADJUSTED	EACH	1	1		
	FILLING INLETS	EACH	1	1		
	CONCRETE THRUST BLOCKS	EACH	2	2		
	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	1687.5	1687.5		
	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	2		
	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	6	6		
	TRAFFIC BARRIER TERMINAL, TYPE 1, (SPECIAL) TANGENT	EACH	4	4		

SCHEDULES

FILE NAME =	USER NAME = betaj	DESIGNED - ESW	REVISED - 05-06-10	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\projects\0000000000\0000000000\0000000000\0000000000.dwg		DRAWN - ESW	REVISED -		70	(25-3)B	EFFINGHAM	1416	12
PLOT SCALE = 1/8" = 100.0000' / IN.		CHECKED - BRM	REVISED -		SCALE: 1" = 40.0000'		SHEET NO. 1 OF 2 SHEETS		STA. TO STA.
PLOT DATE = 5/7/2010		DATE - 04-29-09	REVISED -		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 74296



EXISTING MAINLINE TANGENT SECTION

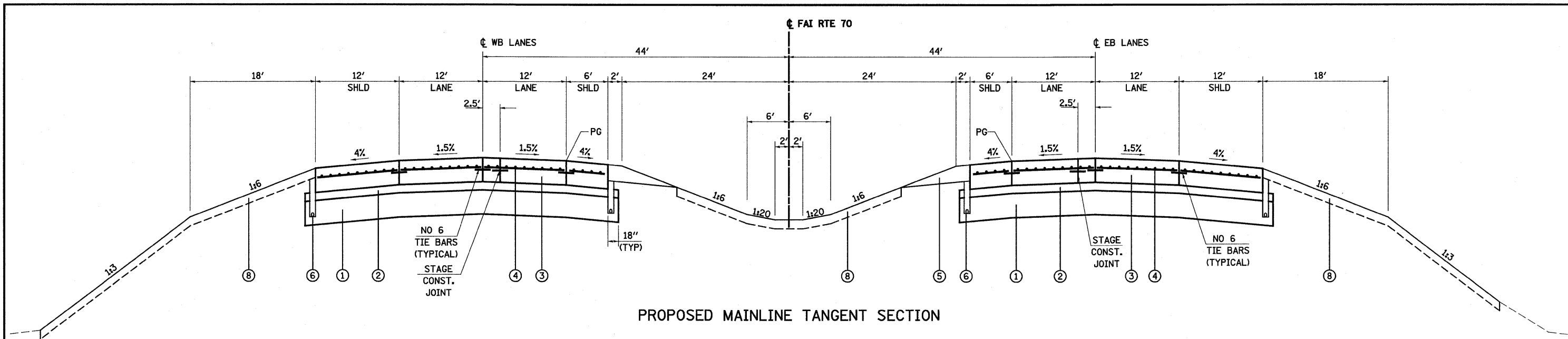
STA 1997+75.00 TO STA 2001+58.88 (FAI RTE 70)
 STA 2005+81.13 TO STA 2015+00.00 (FAI RTE 70)

BRIDGE OMISSION - STA 2001+58.88 TO STA 2005+81.13 (FAI RTE 70)

LEGEND

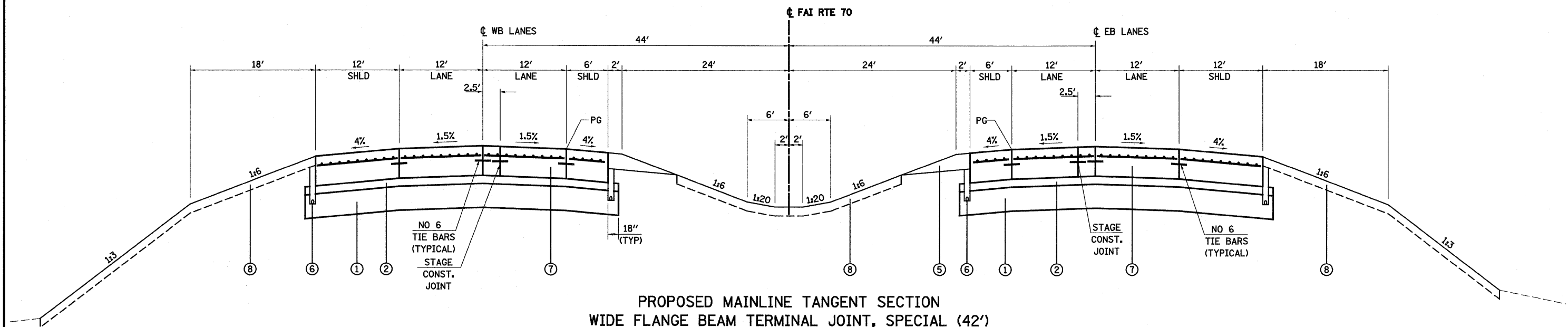
- ① EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A 6"
- ② EXISTING PCC PAVEMENT 10" (w/LONG METAL JT & PAVT FABRIC)
- ③ EXISTING ASPHALT RESURFACING 4 1/2"±
- ④ EXISTING PAVED SHOULDER
- ⑤ EXISTING PIPE UNDERDRAINS
- ⑥ EXISTING AGGREGATE SHOULDERS

FILE NAME = S:\Projects\74296\74296.dwg	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING TYPICAL SECTIONS - FAI ROUTE 70			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - RCB	REVISIED -	REVISIED -		70	(25-3)B	EFFINGHAM	1416	14			
PLOT SCALE = 100.0000' / IN.	CHECKED - BRM	REVISIED -	REVISIED -	SCALE: 1"=50'	SHEET NO. 1	OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 74296			
PLOT DATE = 2/11/2010	DATE - 3-23-09	REVISIED -	REVISIED -					FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



PROPOSED MAINLINE TANGENT SECTION

STA 1997+75.00 TO STA 2000+19.02 (FAI RTE 70)
 STA 2007+43.18 TO STA 2015+00.00 (FAI RTE 70)



**PROPOSED MAINLINE TANGENT SECTION
 WIDE FLANGE BEAM TERMINAL JOINT, SPECIAL (42')**

STA 2000+19.02 TO STA 2001+19.02 (FAI RTE 70)
 STA 2006+43.18 TO STA 2007+43.18 (FAI RTE 70)
 BRIDGE OMISSION-STA 2001+19.02 TO STA 2006+43.18

LEGEND

- ① PROPOSED LIME MODIFIED SOIL 12"
- ② PROPOSED STABILIZED SUB-BASE 4"
- ③ PROPOSED CONTINUOUSLY REINFORCED PCC PAVEMENT 13"
- ④ PROPOSED PAVEMENT REINFORCEMENT 13"
- ⑤ PROPOSED AGGREGATE SHOULDERS, TYPE B 6"
- ⑥ PROPOSED PIPE UNDERDRAINS 6"
- ⑦ PROPOSED WIDE FLANGE BEAM TERMINAL JOINT (SPECIAL)
- ⑧ PROPOSED TOPSOIL FURNISH AND PLACE, 4"

SEE LEGEND NOS. ③-④ FOR PAVEMENT COMPOSITION OF SHOULDERS AND DRIVING LANES

**STRUCTURAL DESIGN INFORMATION
 FAI RTE 70**

ROAD CLASSIFICATION: CLASS I
 STRUCTURAL DESIGN TRAFFIC: 2030
 PV = 18,327 SU = 800 MU = 13,673
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE
 P = 32% S = 45% M = 45%
 MINIMUM SUBGRADE SUPPORT RATING: POOR
 RIGID PAVEMENT DESIGN: MINIMUM $T_F = 10.05$
 ACTUAL $T_F = 86.75$
 SELECTED DESIGN 13.0 CRCP

NOTES
 PROPOSED SIDE SLOPES/DITCHES VARY - SEE CROSS SECTIONS
 LIMITS OF PROPOSED TOPSOIL VARIES - SEE CROSS SECTIONS
 PAVEMENT JOINTS OPTIONAL - LONGITUDINAL CONSTRUCTION JOINT OR LONGITUDINAL SAWED JOINT

FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED TYPICAL SECTIONS - FAI ROUTE 70			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN - RCB					REVISED -	70	(25-3)B	EFFINGHAM	1416	15		
CHECKED - BRM					REVISED -	CONTRACT NO. 74296			ILLINOIS FED. AID PROJECT			
DATE - 3-23-09					REVISED -	SCALE: 1"=50'	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.			

PAVING SCHEDULE

LOCATION	PROCESSING MODIFIED SOIL 12"	LIME	STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE MIX "D", N105	MATERIAL TRANSFER DEVICE	CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 13"	PAVEMENT REINFORCEMENT 13"	WIDE FLANGE BEAM TERMINAL JOINT COMPLETE (SPECIAL) (EACH)	PROTECTIVE COAT	AGGREGATE SHOULDERS TYPE B 6"	HOT-MIX ASPHALT SHOULDERS, 10"	SHOULDER RUMBLE STRIP
STATION TO STATION	(SQ YD)	(TON)	(SQ YD)	(GALLON)	(TON)	(TON)	(TON)	(SQ YD)	(SQ YD)	(EACH)	(SQ YD)	(SQ YD)	(SQ YD)	(FOOT)
1995+00.00 TO 1997+75.00				14	0.3	12	12					21	214	750
1997+27.00 TO 1997+75.00														
1997+75.00 TO 2000+19.02	2441	61.5	2441					2278	2278		2278	108		976
2000+19.02 TO 2001+19.02										2	934	45		400
2006+43.18 TO 2007+43.18										2	934	45		400
2007+43.18 TO 2015+00.00	7569	190.8	7569					7064	7064		7064	336		3028
TOTAL	10010	252.3	10010	14	0.3	12	12	9342	9342	4	11210	555	214	5554

TEMPORARY PAVEMENT SCHEDULE

LOCATION	PORTLAND CEMENT CONCRETE PAVEMENT 12"	PAVEMENT FABRIC	PROTECTIVE COAT	PAVEMENT REMOVAL (SPECIAL)
STATION TO STATION	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)
1995+00.00 TO 1997+75.00	407	407	407	
1997+75.00 TO 2001+69.97	265	265	265	265
2005+92.22 TO 2015+00.00	754	754	754	754
TOTAL	1426	1426	1426	1019

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION	FOR INFORMATION ONLY			FURNISHED EXCAVATION	REMARKS
		EARTH EXCAVATION ADJUSTED FOR SHRINKAGE 25%	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)		
STATION TO STATION	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	
I-70 WEST	6311.4	4733.6	10998.0	-6264.4	6264.4	
SUBTOTAL	6311.4	4733.6	10998.0	-6264.4	6264.4	
TOTAL	6315	4735	11000	-6265	6265.0	

TRAFFIC CONTROL SCHEDULE

LOCATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3
STATION TO STATION	(FOOT)	(FOOT)	(EACH)	(EACH)
STAGE 1				
1996+13 TO 2015+00	1862.5		1	
1997+75 TO 2015+00	1700.0			
STAGE 2				
1996+13 TO 2015+00		1862.5		1
1997+75 TO 2015+00		1700.0		
PAY TOTAL	3562.5	3562.5	1	1

GUARDRAIL SCHEDULE

LOCATION	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS (FOOT)	TRAFFIC BARRIER TERMINAL, TYPE 2 (EACH)	TRAFFIC BARRIER TERMINAL, TYPE 6 (EACH)	TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT) (EACH)	GUARDRAIL REMOVAL (FOOT)	GUARDRAIL MARKERS, TYPE A (EACH)	TERMINAL MARKER - DIRECT APPLIED (EACH)
STATION	SIDE						
I-70 WEST WESTBOUND							
2001+51.42 TO 2001+69.97	LT				19		
2001+51.87 TO 2001+69.97	RT				18		
2005+92.22 TO 2010+17.37	LT				425		
2005+92.22 TO 2007+39.66	RT				176		
2006+28.08 TO 2009+21.83	LT		1	1		4	1
2006+28.08 TO 2012+71.83	RT		1	1		5	1
I-70 WEST EASTBOUND							
1996+95.75 TO 2001+69.97	LT				474		
1997+45.86 TO 2001+69.97	RT				424		
1997+77.87 TO 2001+34.12	LT		1	1		4	1
1998+40.37 TO 2001+34.12	RT		1	1		4	1
2005+92.22 TO 2006+11.58	LT				20		
2005+92.22 TO 2006+10.20	RT				18.0		
2006+28.08 TO 2009+21.83	LT		1	1		4	
2006+28.08 TO 2009+21.83	RT		1	1		4	
2007+77.97 TO 2008+78.59	RT				101		
TOTAL		2	6	4	1675	25	4

SEEDING SCHEDULE

LOCATION	TOPSOIL FURNISH AND PLACE, 4" (SQ YD)	SEEDING CLASS 2 (ACRE)	SEEDING CLASS 7 (ACRE)	NITROGEN FERTILIZER NUTRIENT (POUND)	PHOSPHORUS FERTILIZER NUTRIENT (POUND)	POTASSIUM FERTILIZER NUTRIENT (POUND)	MOWING (ACRE)	MULCH METHOD 2 (TON)
I-70 WEST	21837.0	6.0	6.0	540.0	540.0	419.4	6.0	12.0
TOTAL	21837.0	6.0	6.0	540.0	540.0	419.4	6.0	12.0
PAY TOTAL	21837	6.25	6.25	563	563	563	6.25	12.50

TREE REMOVAL SCHEDULE

LOCATION	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)	TREE REMOVAL ACRES	
STATION	SIDE	(UNIT)	(UNIT)	(ACRE)
1999+71.16	LT		18	
1999+81.98	LT		18	
2000+07.47	LT	12		
2000+65.00 TO 2002+20.00	RT			0.2
2005+80.00 TO 2006+50.00	LT			0.1
2005+80.00 TO 2007+26.00	RT			0.2
TOTAL		12	36	0.5

SURVEY MARKERS SCHEDULE

LOCATION	PERMANENT SURVEY MARKERS, TYPE II (EACH)	
STATION	DESCRIPTION	
I-70 WEST		
1995+00.00	POT	1
2015+00.00	POT	1
TOTAL		2

REMOVAL SCHEDULE

LOCATION	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT (SQ YD)	PAVEMENT REMOVAL (SQ YD)	APPROACH SLAB REMOVAL (SQ YD)	PAVED SHOULDER REMOVAL (SQ YD)	SLOPE WALL REMOVAL (SQ YD)
STATION TO STATION					
1995+00.00 TO 2001+69.97				1667	
1997+27.00 TO 1997+75.00	176				
1997+75.00 TO 2001+29.97		1894			
2001+29.97 TO 2001+69.97			214		704
2001+70 - EAST CONE					704
2005+92 TO WEST CONE			213		
2005+92.22 TO 2006+32.22				2746	
2005+92.22 TO 2015+00.00					
2006+32.22 TO 2015+00.00		4628			
TOTAL	176	6522	427	4413	1408

PIPE CULVERTS SCHEDULE

LOCATION		PIPE CULVERT REMOVAL	PIPE CULVERTS, CLASS A, TYPE 1 24" (FOOT)	PIPE CULVERTS, CLASS A, TYPE 2 24" (FOOT)	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24" (EACH)	REINFORCED CONCRETE PIPE TEE, 24" PIPE WITH 24" RISER (EACH)	CONCRETE COLLAR (EACH)	STORM SEWERS, CLASS A, TYPE 1 24" (FOOT)	MEDIAN INLET 604101 (EACH)	MANHOLES TO BE ADJUSTED (EACH)	FILLING INLETS (EACH)	CONCRETE THRUST BLOCKS (EACH)	REMOVE AND RELOCATE INLETS (EACH)
STATION TO STATION	SIDE	(FOOT)	(FOOT)	(FOOT)	(EACH)	(EACH)	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)
1997+75.00	MED												1
1997+75.00 TO 1999+73.30	MED						196						
1999+73.30	MED					1		1					
1999+73.30 TO 2000+H3.36	MED						35						
1999+98 TO 2000+H3	MED	15											
2000+H3.36	MED/RT		14		1					1			
2008+26.71	MED/RT			118	1	1		1				2	
2010+09.43	MED									1			
TOTAL		15	14	118	2	2	231	2	1	1	1	2	1

PIPE UNDERDRAINS SCHEDULE

LOCATION		CONCRETE HEADWALL FOR PIPE DRAINS (EACH)	PIPE UNDERDRAINS 6" (FOOT)	PIPE UNDERDRAINS 6" (SPECIAL) (FOOT)	REMARKS
STATION TO STATION	SIDE	(EACH)	(FOOT)	(FOOT)	
I-70 WESTBOUND					
1997+75.00 TO 1999+73.30	LT/RT	2	396.6	20.0	PLUG AT STA 1997+75.00
1999+73.30 TO 2001+H9.02	LT/RT		291.4		PLUG AT STA 2001+H9.02
2006+43.18 TO 2008+26.71	LT/RT	2	367.1	20.0	PLUG AT STA 2006+43.18
2008+26.71 TO 2011+58.79	LT/RT		664.2		PLUG AT STA 2011+58.79
2011+59.79 TO 2015+00.00	LT/RT	2	680.4	20.0	PLUG AT STA 2011+59.79
I-70 EASTBOUND					
1997+75.00 TO 1999+73.30	LT/RT	2	396.6	20.0	PLUG AT STA 1997+75.00
1999+73.30 TO 2001+H9.02	LT/RT		291.4		PLUG AT STA 2001+H9.02
2006+43.18 TO 2008+26.71	LT/RT	2	367.1	20.0	PLUG AT STA 2006+43.18
2008+26.71 TO 2011+58.79	LT/RT		664.2		PLUG AT STA 2011+58.79
2011+59.79 TO 2015+00.00	LT/RT	2	680.4	20.0	PLUG AT STA 2011+59.79
STRUCTURE	LT/RT	8			
SUBTOTAL		20	4799.4	120.0	
PAY TOTAL		20	4800	120	

PAVEMENT MARKING SCHEDULE

LOCATION	URETHANE PAVEMENT MARKING - LINE 4"		URETHANE PAVEMENT MARKING - LINE 6"		PAVEMENT MARKING GROOVING (FOOT)	RAISED REFLECTIVE PAVEMENT MARKER (EACH)	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE) (EACH)
	SOLID YELLOW (FOOT)	SOLID WHITE (FOOT)	SKIP DASH WHITE (FOOT)	SKIP DASH WHITE (FOOT)			
I-70 WEST WESTBOUND							
1992+75.00 TO 1997+75.00	500	500	125	1125			
1997+75.00 TO 2001+H9.02	374	374	94	842		10	
2001+H9.02 TO 2006+H3.18	464	464	116	1044			12
2006+H3.18 TO 2015+00.00	887	887	222	1996		23	
I-70 WEST EASTBOUND							
1981+00.00 TO 1997+75.00	1675	1675	419	3769			
1997+75.00 TO 2001+H9.02	374	374	93	841		10	
2001+H9.02 TO 2006+H3.18	464	464	116	1044			12
2006+H3.18 TO 2015+00.00	887	887	222	1996		23	
SUBTOTAL	5625	5625	1407	12657	66	24	
TOTAL	11250		1407	12657	66	24	

RIPRAP SCHEDULE

LOCATION		STONE RIPRAP CLASS A4 (SQ YD)	FILTER FABRIC (SQ YD)
STATION TO STATION	SIDE	(SQ YD)	(SQ YD)
2000+02 TO 2000+32	RT	46	46
2008+22 TO 2008+32	RT	45	45
TOTAL		91	91

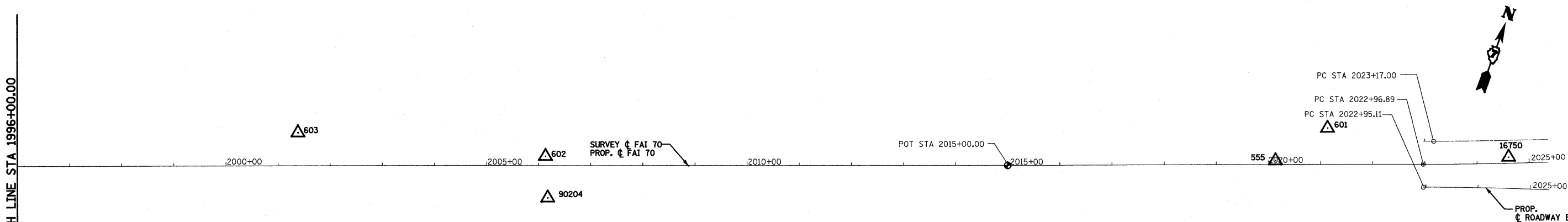
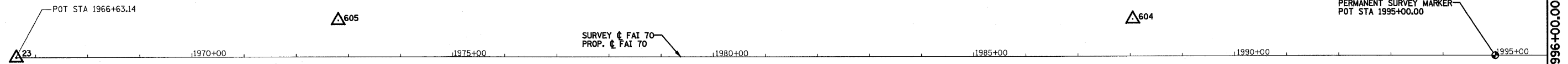
TEMPORARY PAVEMENT MARKING SCHEDULE

LOCATION	TEMPORARY PAVEMENT MARKING - LINE 4"		TEMPORARY PAVEMENT MARKING - LINE 6"		WORK ZONE PAVEMENT MARKING REMOVAL (SQ FT)
	SOLID YELLOW (FOOT)	SOLID WHITE (FOOT)	SKIP DASH WHITE (FOOT)	SKIP DASH WHITE (FOOT)	
I-70 WEST WESTBOUND					
1992+75.00 TO 1997+75.00	500	500	125	395.8	
1997+75.00 TO 2001+H9.02	374	374	94	296.3	
2001+H9.02 TO 2006+H3.18	464	464	116	367.3	
2006+H3.18 TO 2015+00.00	887	887	222	702.3	
I-70 WEST EASTBOUND					
1981+00.00 TO 1997+75.00	1675	1675	419	1326.2	
1997+75.00 TO 2001+H9.02	374	374	93	295.8	
2001+H9.02 TO 2006+H3.18	464	464	116	367.3	
2006+H3.18 TO 2015+00.00	887	887	222	702.3	
SUBTOTAL	5625	5625	1407	4453.3	
TOTAL	11250		1407	4454	

EROSION CONTROL SCHEDULE

LOCATION	STATION	OFFSET	SIDE	EARTH EXCAVATION FOR EROSION CONTROL (CU YD)	TEMPORARY DITCH CHECKS (FOOT)	PERIMETER EROSION BARRIER (FOOT)	INLET AND PIPE PROTECTION (EACH)	AGGREGATE (EROSION CONTROL) (TON)
								(TON)
	1997+70.00	0.0	MED				1	
	1997+75.00 TO 1999+50.00		RT			175		
	1997+75.00 TO 1999+00.00		LT			125		
	1999+73.30	0.0	MED				1	
	2000+00.00	130.1	RT		20			
	2000+00.00	134.3	LT		12			
	2001+25.00	0.0	MED		34			
	2001+37.42	134.9	RT		17			
	2001+37.42	138.8	LT		17			
	2001+40.00 TO 2002+00.00		LT/RT			307		
	2001+65.00	128.5	RT	3.0				2.8
	2001+75.00	122.0	LT	3.0				2.8
	2005+00.00 TO 2006+00.00		LT/RT			297		
	2006+00.00 TO 2015+00.00		LT			901		
	2006+00.00 TO 2015+00.00		RT			899		
	2006+75.00	0.0	MED		34			
	2008+26.58	0.0	MED				1	
	2008+26.58	167.0	RT	3.0				2.8
	2009+75.00	0.0	MED		34			
	2010+10.00	130.0	RT	3.0				2.8
	2010+90.00	163.5	LT	7.4				7.0
	2011+25.00	0.0	MED		34			
	2012+00.00	0.0	MED		34			
	2013+50.00	0.0	MED		34			
	2015+00.00	0.0	MED		34			
	2015+00.00	91.2	RT		18			
	SUBTOTAL			19.4	322	2704	3	18.2
	PAY TOTAL			20	322	2704	3	19

EXIST. SURVEY \odot FAI 70
 EXIST. CURVE WEST1
 PI STA. = 2059+53.47
 Δ = 55° 59' 40" (LT)
 D = 0° 49' 59"
 R = 6,877.84'
 T = 3,656.59'
 L = 6,721.63'
 E = 911.60'
 P.C. STA. = 2022+96.89
 P.T. STA. = 2090+18.51



BENCHMARK 552:

CHISELED SQUARE ON TOP OF CENTER
 BASE OF EXIT 92 INTERSTATE 57
 CHICAGO MEMPHIS 1 MILE
 STA. 1981+01
 ELEV 549.25

BENCHMARK 2020:

CHISELED SQUARE NORTHEAST CORNER
 OF CONCRETE DROP INLET JUST WEST
 OF SOUTH TRI-LEVEL IN MEDIAN
 STA. 2020+00
 ELEV 521.68

BENCHMARK 551:

CHISELED SQUARE ON TOP OF SLOPE
 WALL ON EAST SIDE OF LITTLE WABASH
 RIVER STA 2005+75, 25.7' OFF OF CENTERLINE
 I-70 WEST
 ELEV 521.58

SURVEY \odot FAI 70

DESCRIPTION	COORDINATE	
	NORTHING	EASTING
POT STA 1966+63.14	881449.64	906570.31
PC STA 2022+96.89	883392.73	911858.36
PI STA 2059+53.47	884653.89	915290.58
PT STA 2090+18.51	888204.48	916164.64

**GROUND COORDINATES FOR
 PERMANENT SURVEY MARKERS**

DESCRIPTION	COORDINATE	
	NORTHING	EASTING
POT STA 1995+00.00	882428.08	909233.10
POT STA 2015+00.00	883117.88	911110.38

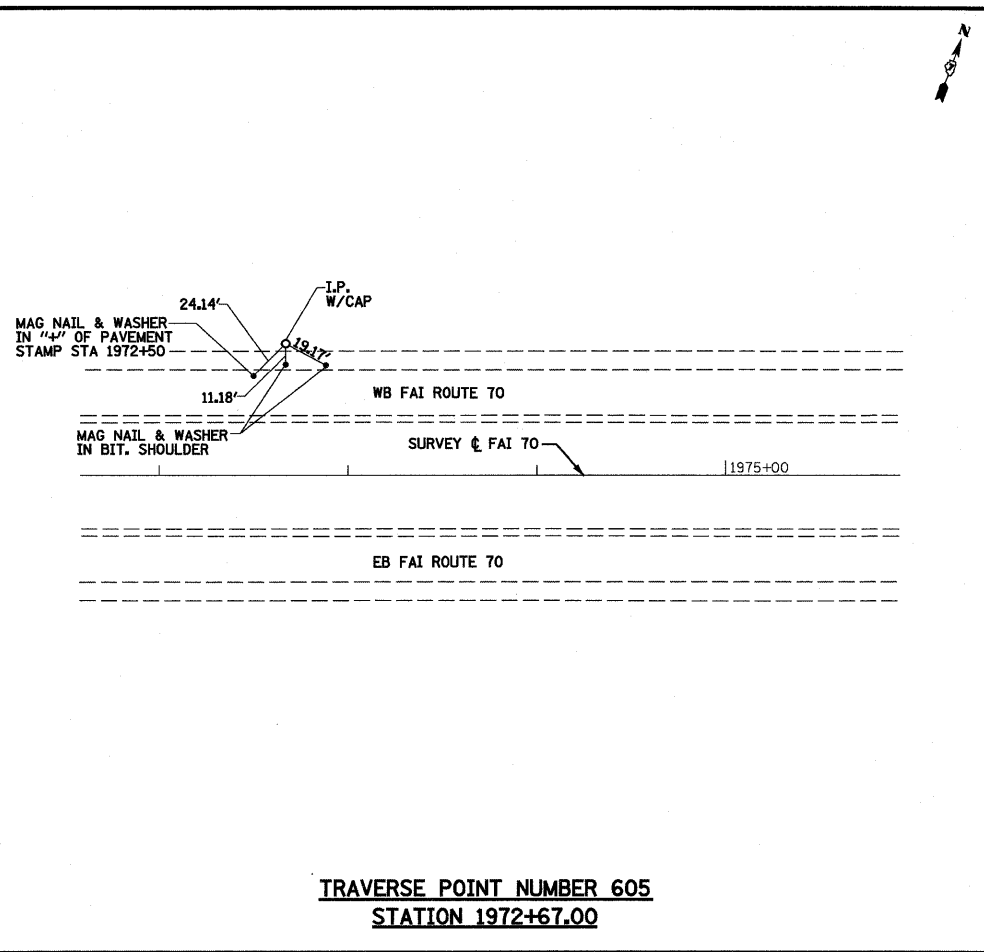
CONTROL POINTS

CONTROL POINT	COORDINATE	
	NORTHING	EASTING
23	881449.64	906570.31
605	881728.27	907125.65
604	882255.05	908556.34
603	882707.98	909810.18
602	882829.02	910271.77
90204	882755.24	910303.19
555	883301.86	911589.92
601	883394.86	911862.17
16750	883461.94	912007.47

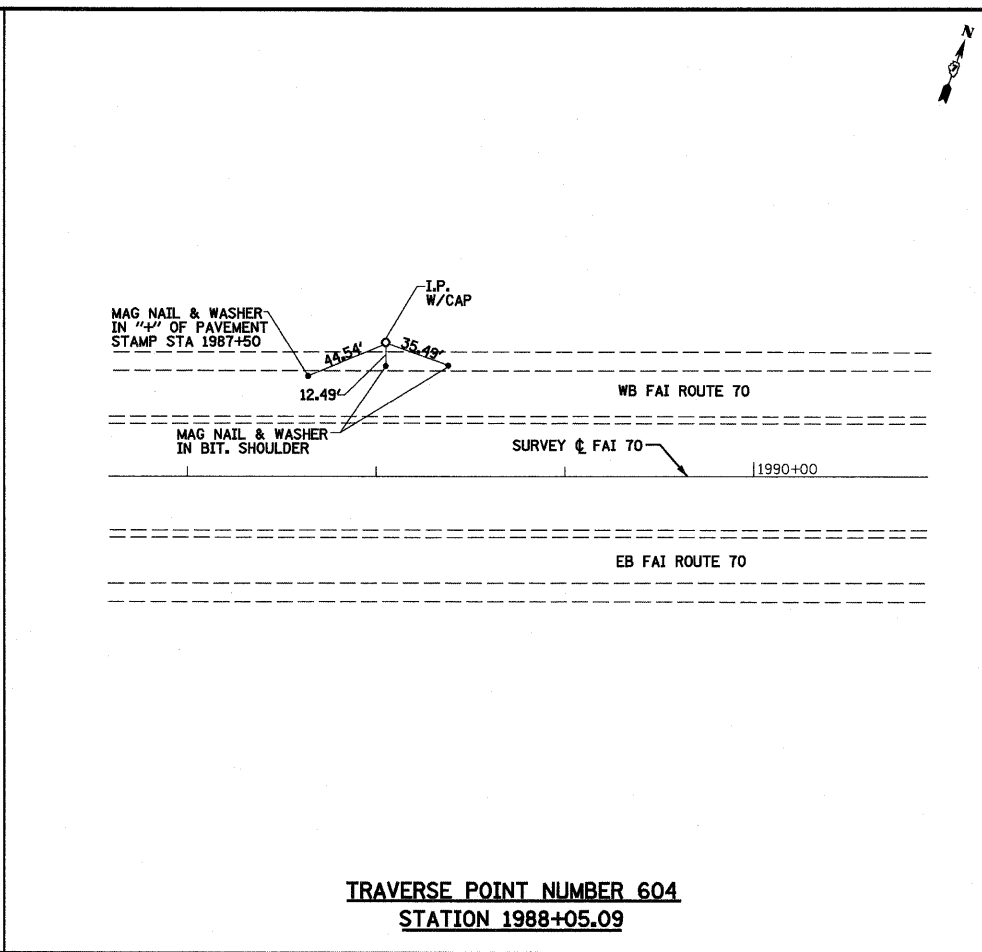


PERMANENT SURVEY MARKER \odot

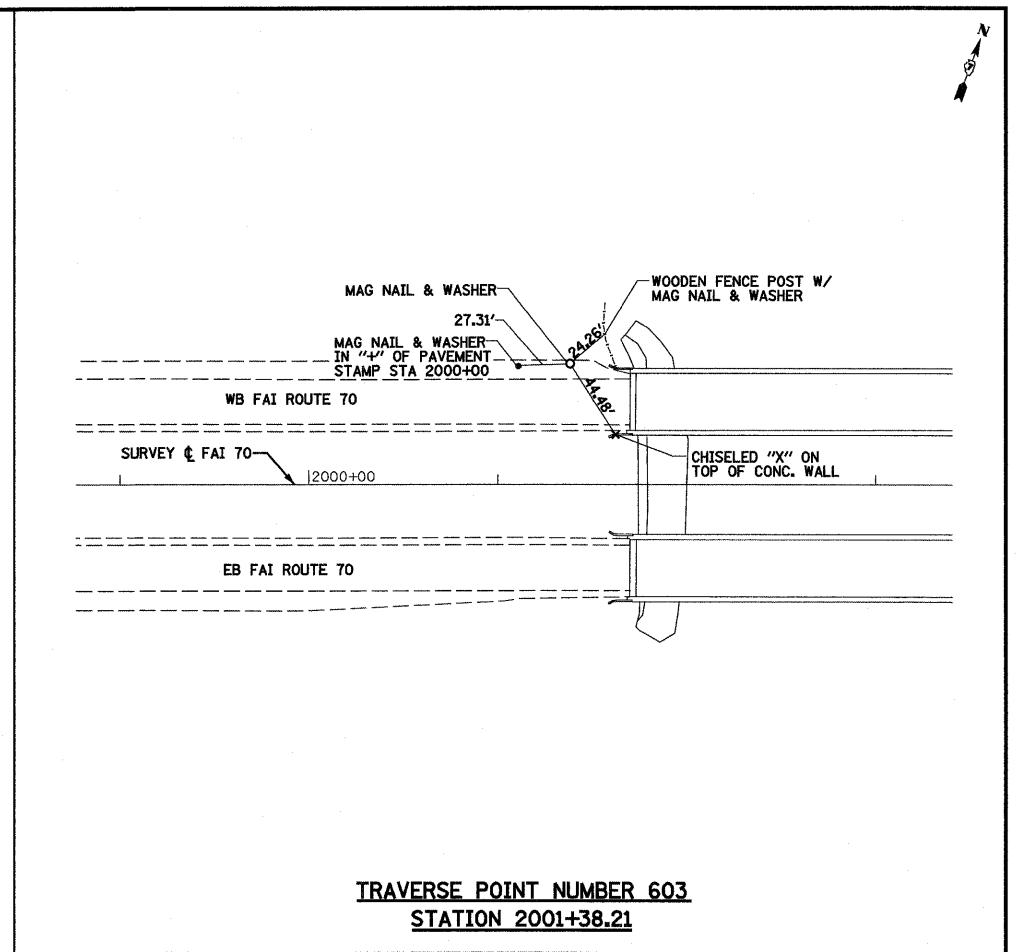
FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HORIZONTAL CONTROL, FAI ROUTE 70			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SA\Projects\600-2007-Little Wabash\4000 Sheets\07989-18-18.dwg		DRAWN - PDB	REVISED -					70	(25-3)B	EFFINGHAM	1416	18
		CHECKED - BRM	REVISED -					CONTRACT NO. 74296				
		DATE - 3-20-09	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
				SCALE: 1"=100'		SHEET NO. 1 OF 2 SHEETS		STA. 1966+63.14 TO STA. 2025+00.00				



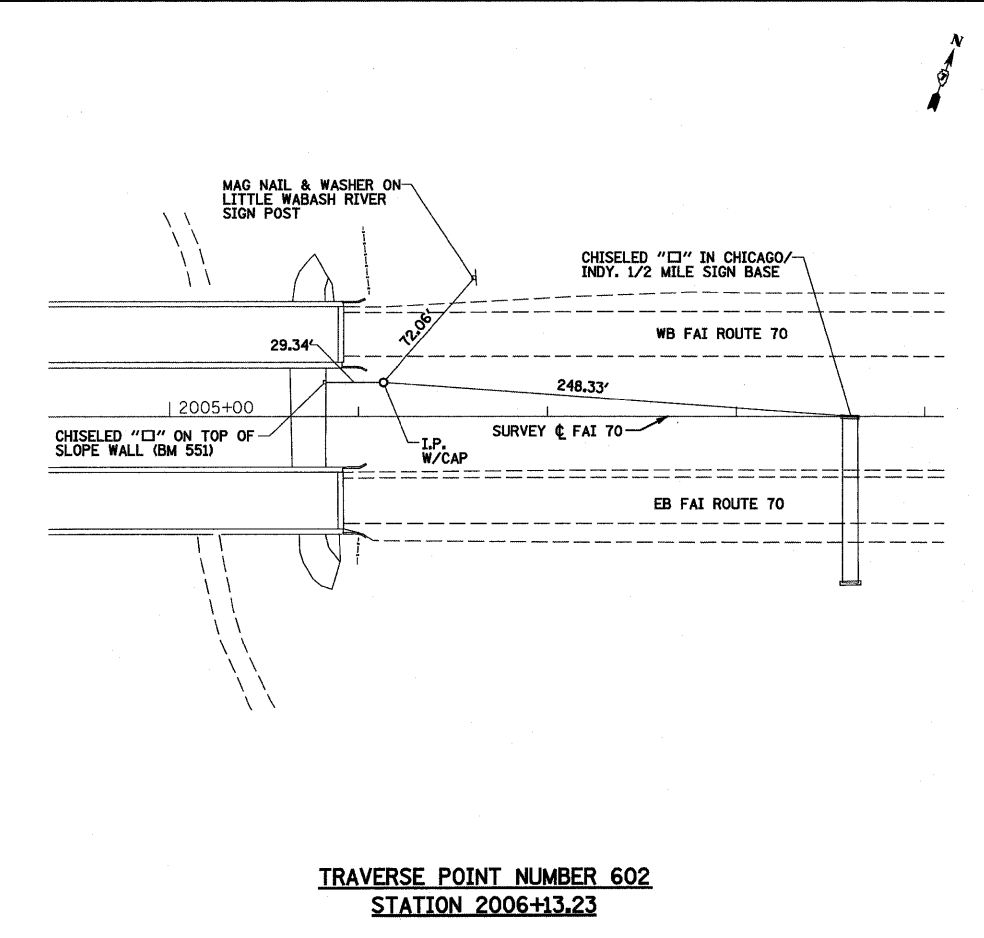
TRAVERSE POINT NUMBER 605
STATION 1972+67.00



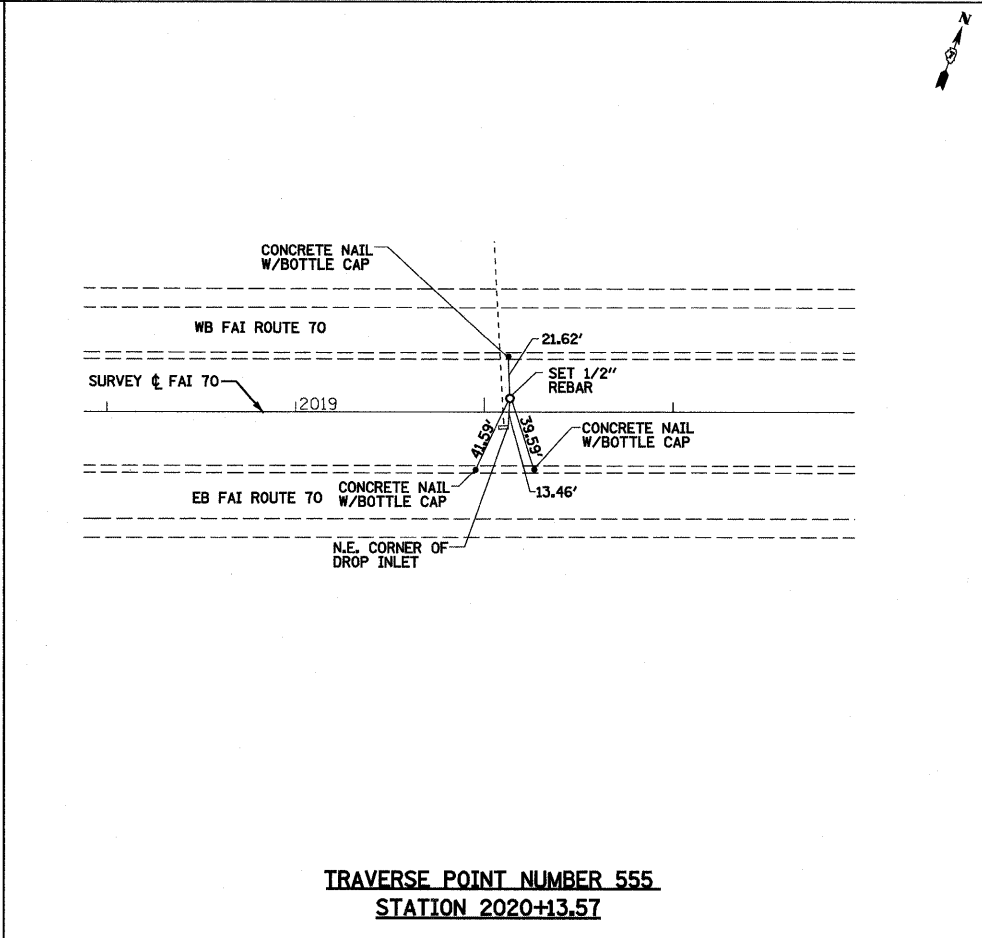
TRAVERSE POINT NUMBER 604
STATION 1988+05.09



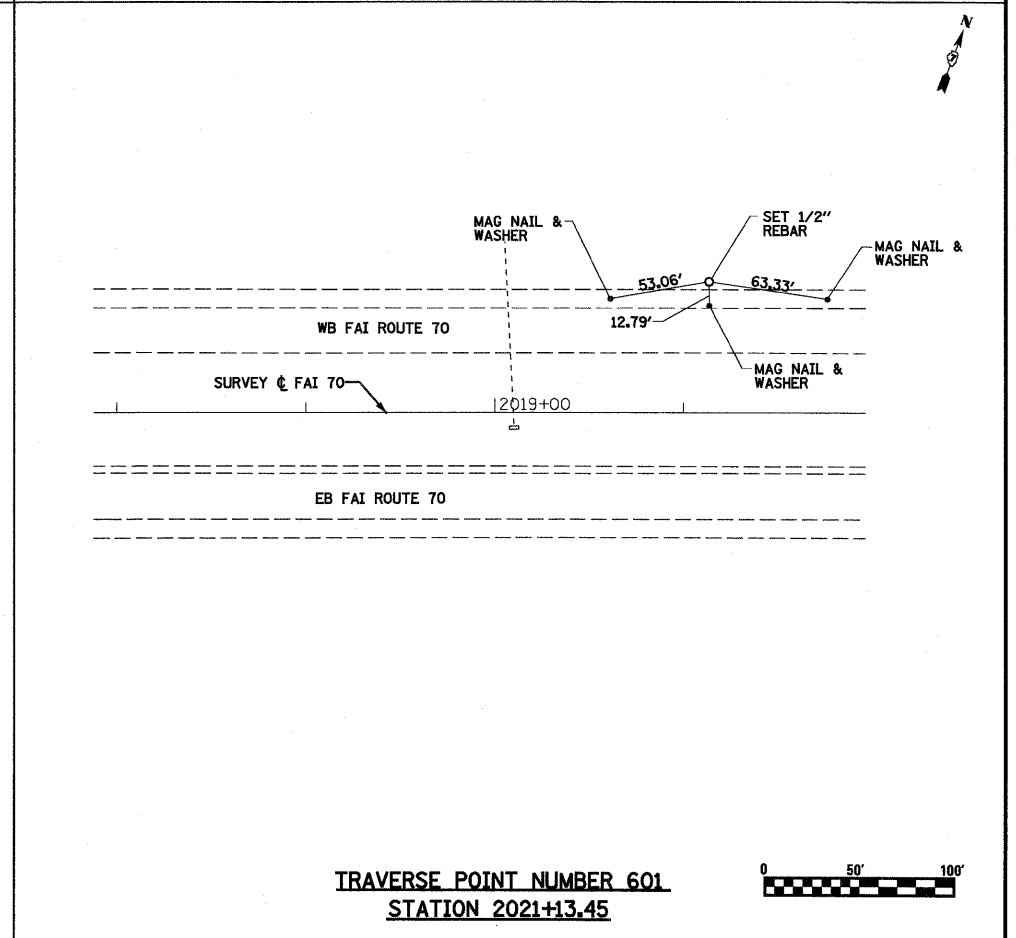
TRAVERSE POINT NUMBER 603
STATION 2001+38.21



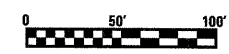
TRAVERSE POINT NUMBER 602
STATION 2006+13.23



TRAVERSE POINT NUMBER 555
STATION 2020+13.57



TRAVERSE POINT NUMBER 601
STATION 2021+13.45



FILE NAME =	USER NAME =
S:\Projects\488-000-01 Little Wabash\488-000-01\Drawings\488-000-01-418.dwg	
PLOT SCALE =	PLOT DATE =

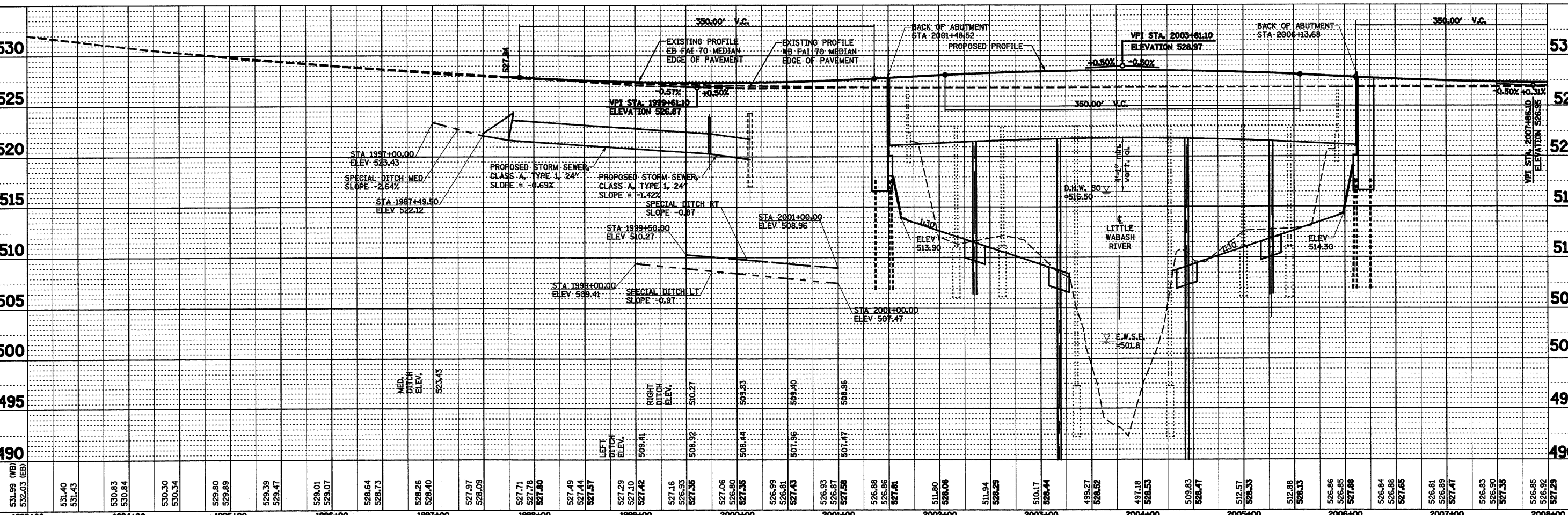
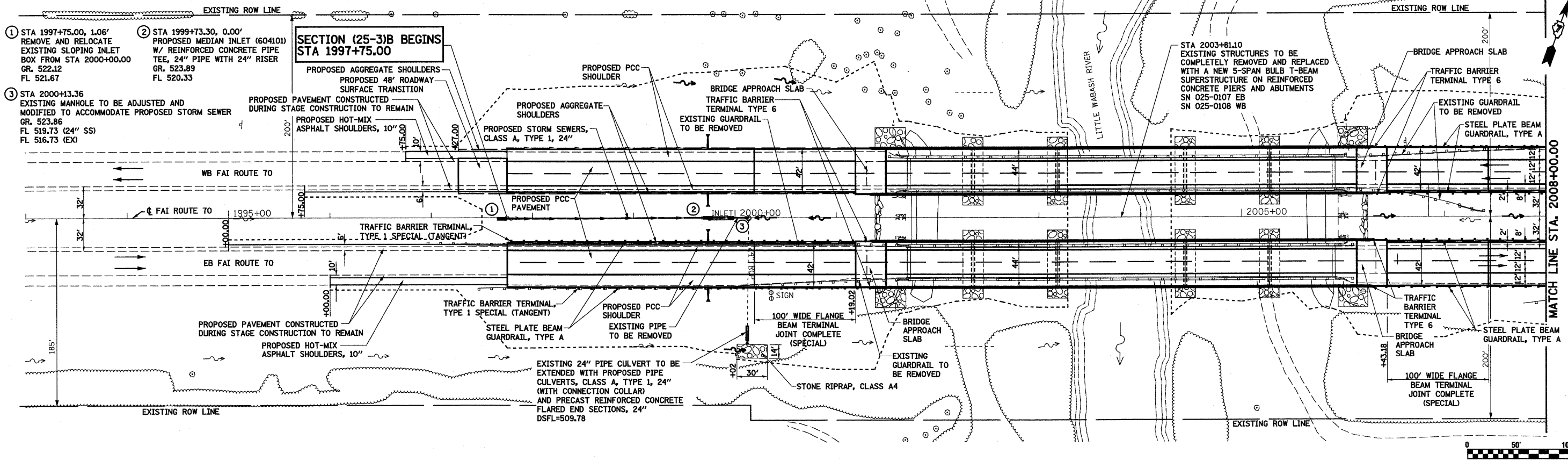
DESIGNED - JWS	REVISOR
DRAWN - MAB	REVISION
CHECKED - BRM	REVISION
DATE - 3-20-09	REVISION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TIE POINTS, FAI ROUTE 70

SCALE: 1"=50' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-3)B	EFFINGHAM	1416	19
CONTRACT NO. 74296				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

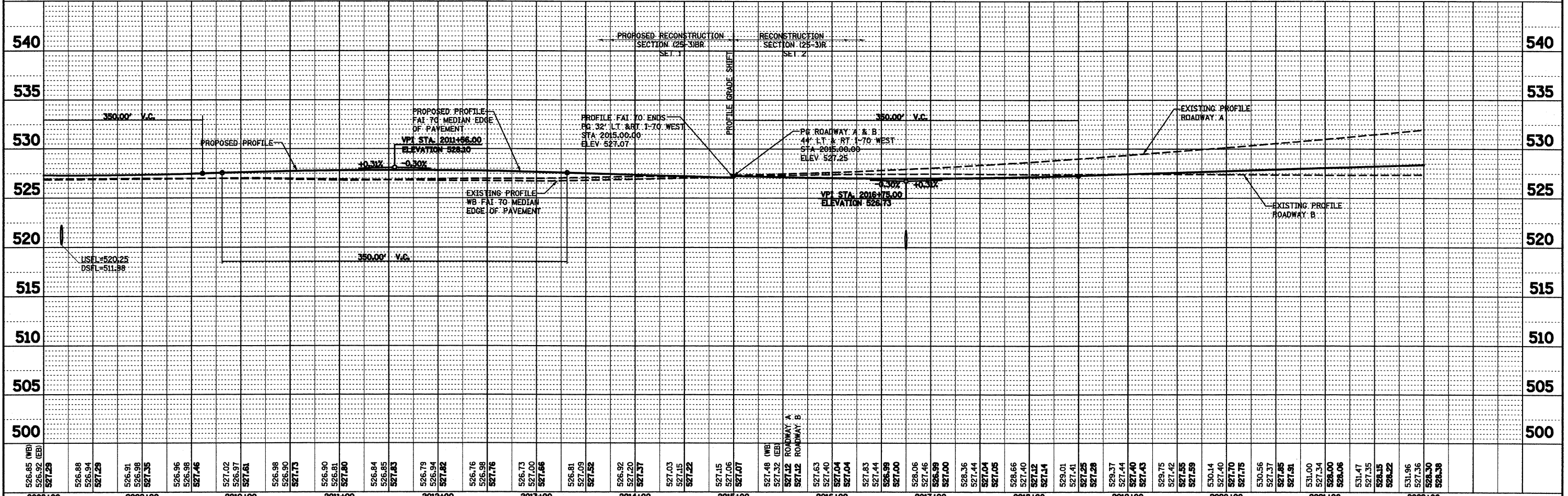
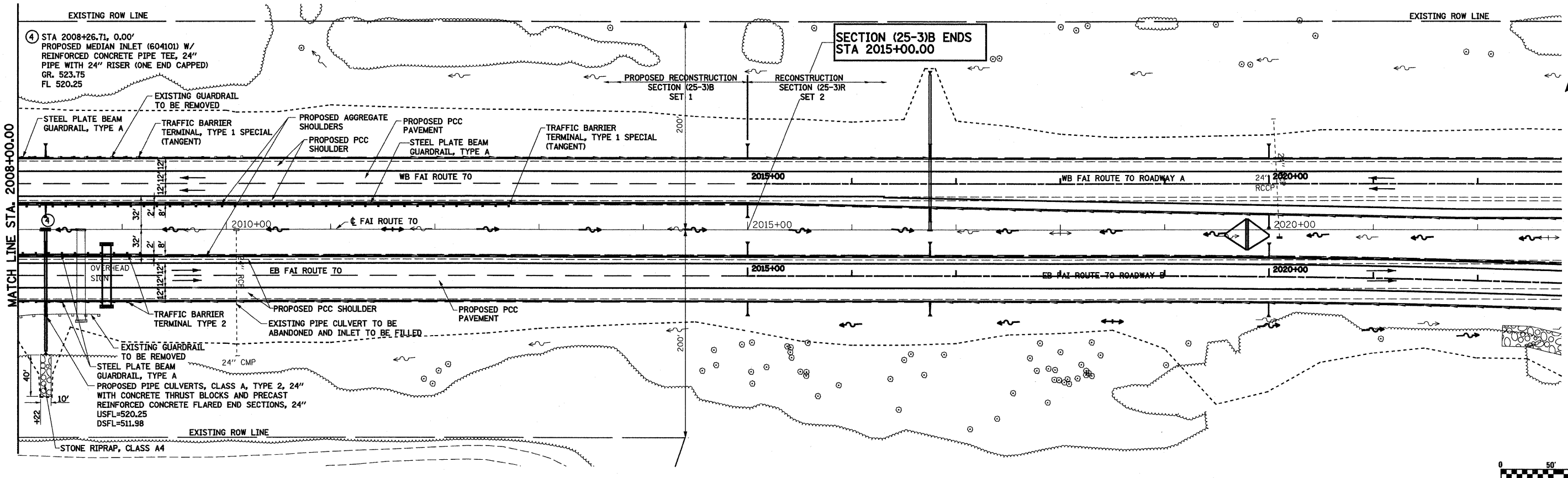


DATE	
BY	
PLAN	
NO.	
DATE	
BY	
PROFILE	
NO.	

DATE	
BY	
PROFILE	
NO.	
DATE	
BY	
PLAN	
NO.	

FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SCALE: 1"=50' SHEET NO. 1 OF 2 SHEETS STA. 1993+00.00 TO STA. 2008+00.00	F.A.I. RTE. 70	SECTION (25-3)B	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 20	
PLOT SCALE = 1/8"=1' / IN.	DATE = 4-29-09	DRAWN - PDB	REVISED -		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 74296			
PLOT DATE = 3/16/2018		CHECKED - BRM	REVISED -							
		DATE	REVISED							

DATE: _____ BY: _____
 SURVIVED: _____ ALIGNED: _____ CHECKED: _____
 NOTE BOOK: _____ NO. OF WAY CHECKED: _____
 PLAN: _____ ROAD FILE NAME: _____
 SURVIVED: _____ GRADES CHECKED: _____
 NOTE BOOK: _____ B.M. NOTED: _____
 PROFILE: _____ STRUCTURE: _____ NOTATIONS: _____



526.85 (WB) 526.92 (EB) 527.29	526.88 526.94 527.29	526.91 526.98 527.35	526.96 527.46	527.02 527.51	526.98 526.90 527.73	526.90 526.81 527.80	526.84 526.85 527.83	526.79 526.84 527.82	526.76 526.98 527.76	526.73 527.00 527.66	526.81 527.09 527.52	526.92 527.20 527.37	527.03 527.15 527.22	527.15 527.06 527.07	527.48 (WB) 527.32 (EB) 527.12 (WB) 527.12 (WB)	527.63 527.40 527.04 527.04	527.83 527.44 526.99 527.00	526.96 527.46 526.99 527.00	526.36 527.44 527.04 527.05	526.66 527.40 527.12 527.14	529.01 527.41 527.25 527.28	529.37 527.44 527.40 527.43	529.75 527.42 527.45 527.59	530.14 527.40 527.70 527.75	530.56 527.37 527.85 527.91	531.00 527.34 528.00 528.06	531.47 527.35 528.15 528.22	531.96 527.36 528.30 528.38																
2008+00	2009+00	2010+00	2011+00	2012+00	2013+00	2014+00	2015+00	2016+00	2017+00	2018+00	2019+00	2020+00	2021+00	2022+00																														

FILE NAME =
 USER NAME = paul
 DESIGNED - JWS
 DRAWN - PDB
 CHECKED - BRM
 DATE - 4-29-09

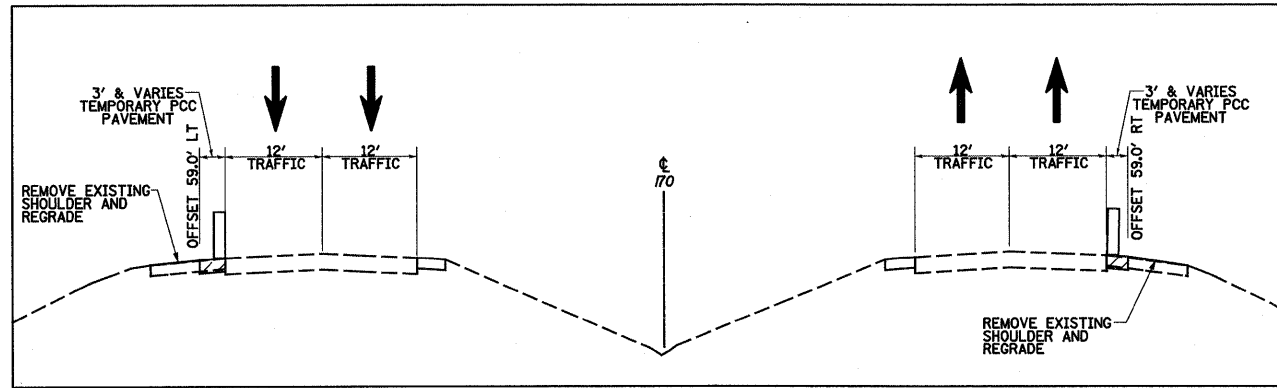
REVISIONS:
 REVISION -
 REVISION -
 REVISION -
 REVISION -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

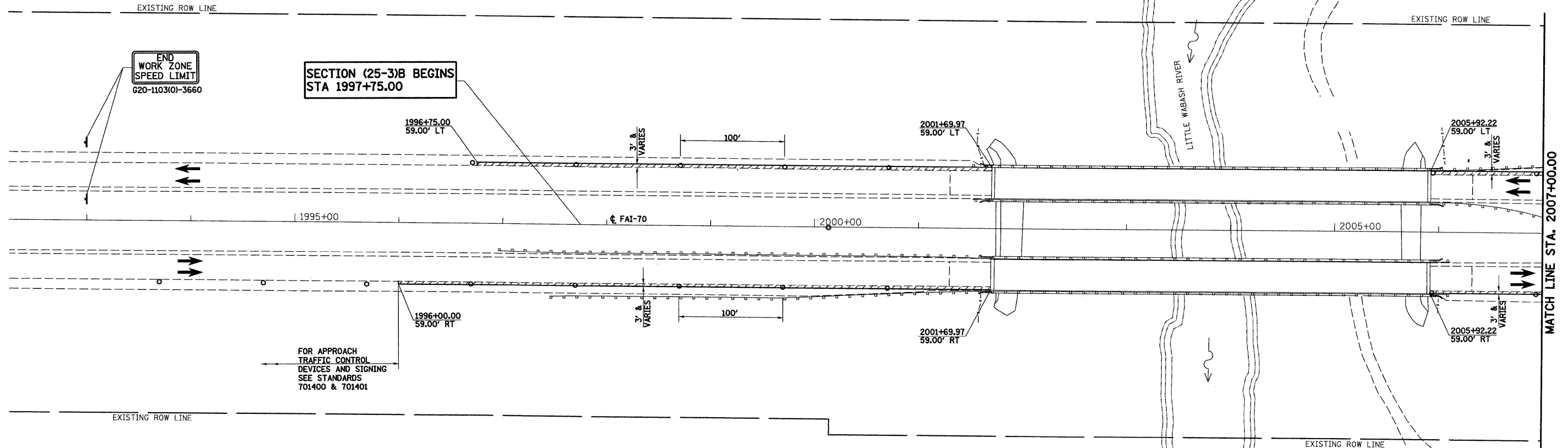
PLAN AND PROFILE, FAI ROUTE 70

SCALE: 1"=50'
 SHEET NO. 2 OF 2 SHEETS
 STA. 2008+00.00 TO STA. 2021+00.00

F.A.I. RTE. 70	SECTION (25-3)B	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 21
CONTRACT NO. 74296				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



TYPICAL APPLICATION



GENERAL STAGING NOTES

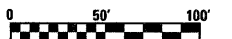
- EXISTING TRAFFIC PATTERNS WILL BE MAINTAINED THROUGH OR AROUND THE PROJECT AREA AT ALL TIMES. ONE OR TWO LANES OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS OR AS OTHERWISE DIRECTED BY THE ENGINEER.
- ADEQUATE DRAINAGE SHALL BE MAINTAINED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
- A FLAGMAN SHALL BE REQUIRED IN ADVANCE OF ANY WORK AREA WHERE CONSTRUCTION VEHICLES ARE FREQUENTLY ENTERING OR LEAVING THE WORK SITE AND AT LOCATIONS DESIGNATED BY THE ENGINEER. COST OF THE FLAGMAN IS INCLUDED IN THE ASSOCIATED TRAFFIC CONTROL PAY ITEM.
- THE STAGED CONSTRUCTION DRAWINGS PROVIDE FOR TEMPORARY SIGNS. IT MAY BE NECESSARY TO RELOCATE AND/OR REINSTALL TEMPORARY OR EXISTING SIGNS AS DIRECTED BY THE ENGINEER. COST INCLUDED IN THE ASSOCIATED TRAFFIC CONTROL PAY ITEM.
- CONSTRUCTION SIGNS INDICATED FOR STAGED CONSTRUCTION SHALL BE INSTALLED ON MAINLINE WHEN CONSTRUCTION OPERATIONS ARE INITIATED AND SHALL BE PROPERLY MAINTAINED THROUGHOUT EACH CONSTRUCTION STAGE.
- ALL STATIONS AND OFFSETS SHOWN ARE TO PROPOSED ALIGNMENTS UNLESS OTHERWISE INDICATED.
- ALL TEMPORARY PAVEMENTS ARE PORTLAND CEMENT CONCRETE PAVEMENT 12" WITH PAVEMENT FABRIC.
- THE MAINTENANCE OF TRAFFIC AND STAGE CONSTRUCTION OPERATIONS FOR THIS CONSTRUCTION SECTION (SET 1 OF 3) ARE SUBJECT TO THE OVERALL SEQUENCE OF CONSTRUCTION FOR THE COMBINED SETS OF PLANS. (SEE SPECIAL PROVISIONS)

NOTES: PRE-STAGE 1

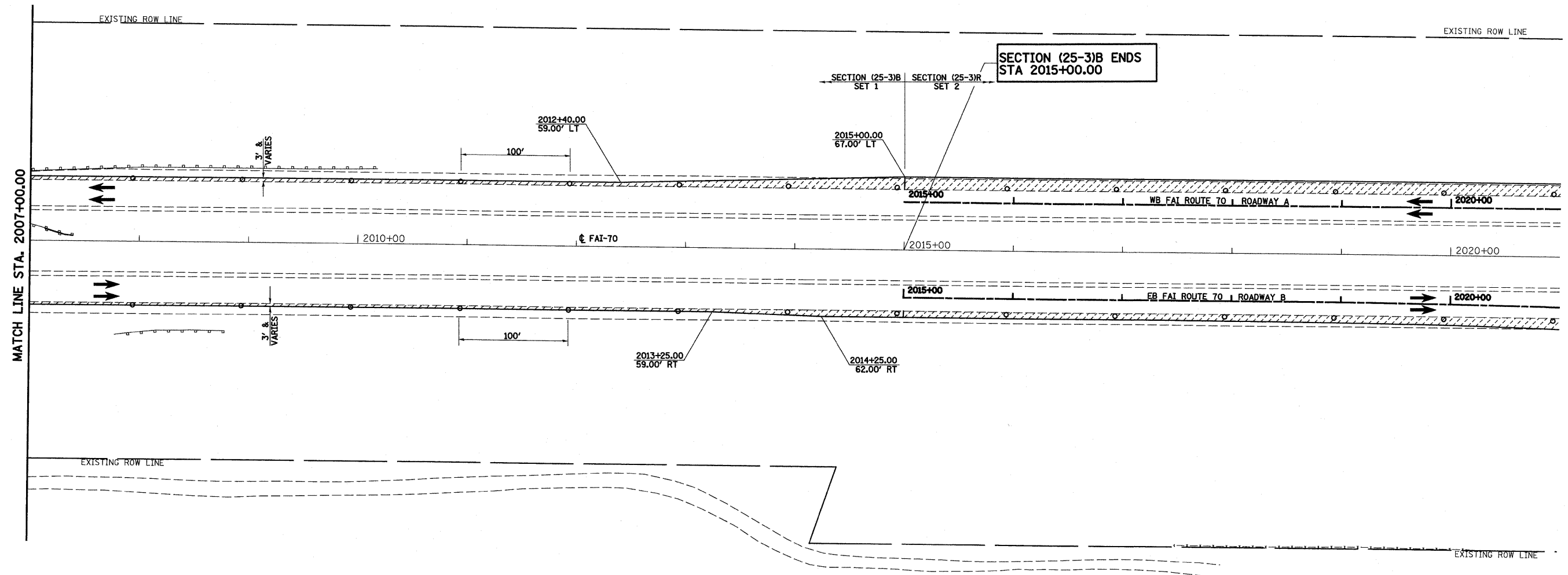
- MAINTAIN TRAFFIC ON EXISTING PAVEMENT. ONE LANE OF TRAFFIC IN EACH DIRECTION MAY BE CLOSED FOR WIDENING OPERATIONS DURING WORKING HOURS ONLY. ALL TRAFFIC CONTROL DEVICES SHALL BE PULLED BACK TO THE SHOULDER AREA AT ALL OTHER TIMES.
- CONSTRUCT WIDENING WITH TEMPORARY PCC PAVEMENT AS INDICATED.

LEGEND





- TEMPORARY PCC PAVEMENT
- SIGN
- DIRECTION OF TRAFFIC
- TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS

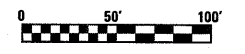


FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC, PRE-STAGE 1, FAI ROUTE 70			F.A.I. RTE. 70	SECTION (25-3)B	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 22
PLOT SCALE = 1/8" = 100' / IN.		DRAWN - PDB	REVISED -		SCALE: 1"=50'	SHEET NO. 1 OF 6 SHEETS	STA. 1993+00.00 TO STA. 2007+00.00	CONTRACT NO. 74296				
PLOT DATE = 3/16/2010		CHECKED - BRM	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
		DATE - 4-30-09	REVISED -									

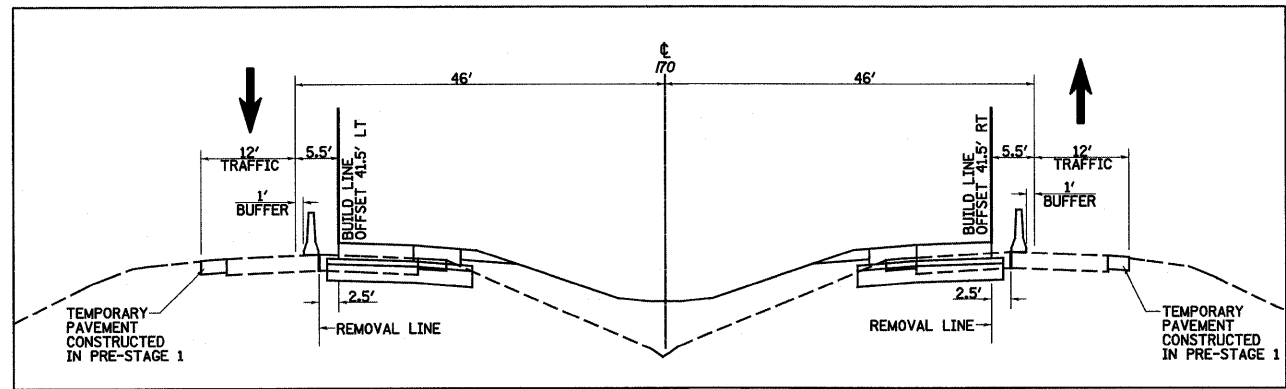


LEGEND

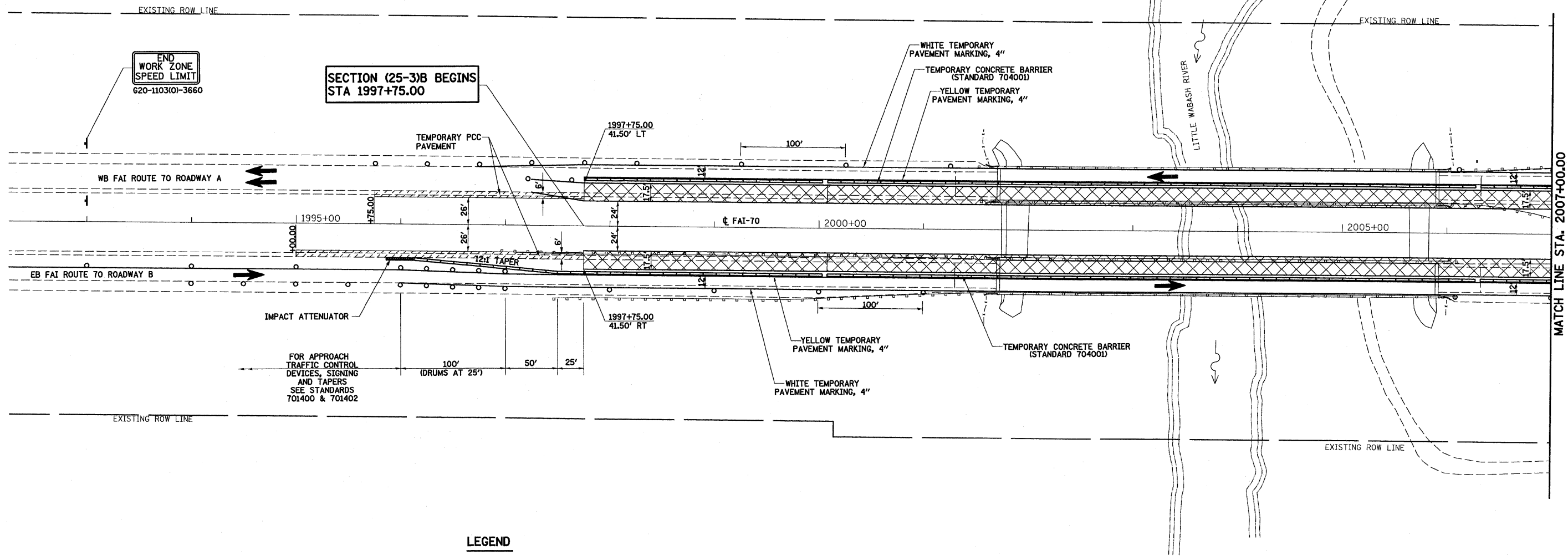
-  TEMPORARY PCC PAVEMENT
-  SIGN
-  DIRECTION OF TRAFFIC
-  TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS



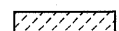
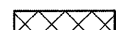




FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC, PRE-STAGE 1, FAI ROUTE 70	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\Projects\1488\1488-001\1488-001.dwg		DRAWN - PDB	REVISED -			70	(25-3)B	EFFINGHAM	1416	23
PLOT SCALE = 1/8" = 100'	PLOT DATE = 2/11/2012	CHECKED - BRM	REVISED -			SCALE: 1"=50' SHEET NO. 2 OF 6 SHEETS STA. 2007+00.00 TO STA. 2021+00.00				
				DATE - 4-30-09	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
				CONTRACT NO. 74296						



TYPICAL APPLICATION

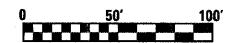


LEGEND

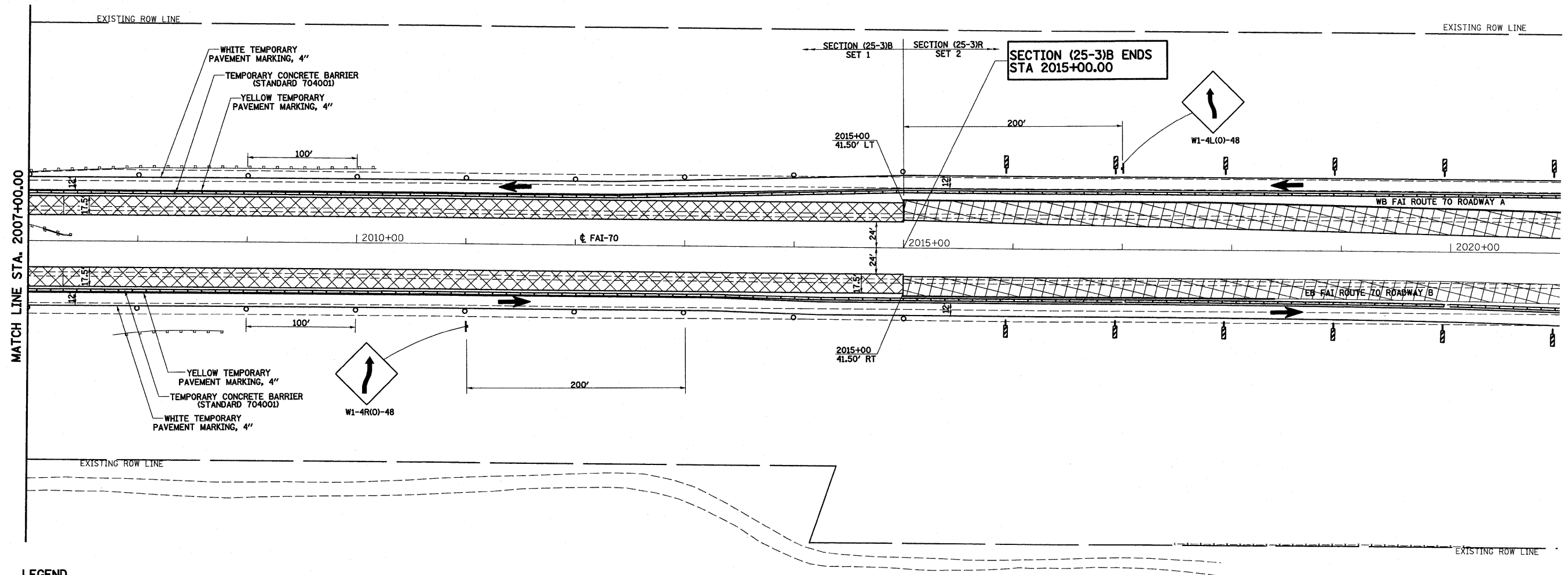
-  TEMPORARY PCC PAVEMENT
-  CONSTRUCTION THIS STAGE
-  SIGN
-  DIRECTION OF TRAFFIC
-  TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS
-  TEMPORARY CONCRETE BARRIER

NOTES: STAGE 1

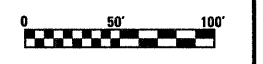
1. SHIFT TRAFFIC TO OUTSIDE EXISTING PAVEMENT AND TEMPORARY PAVEMENT CONSTRUCTED DURING PRE-STAGE 1.
2. CONSTRUCT INSIDE PROPOSED PAVEMENT AND RESURFACING AND MEDIAN.



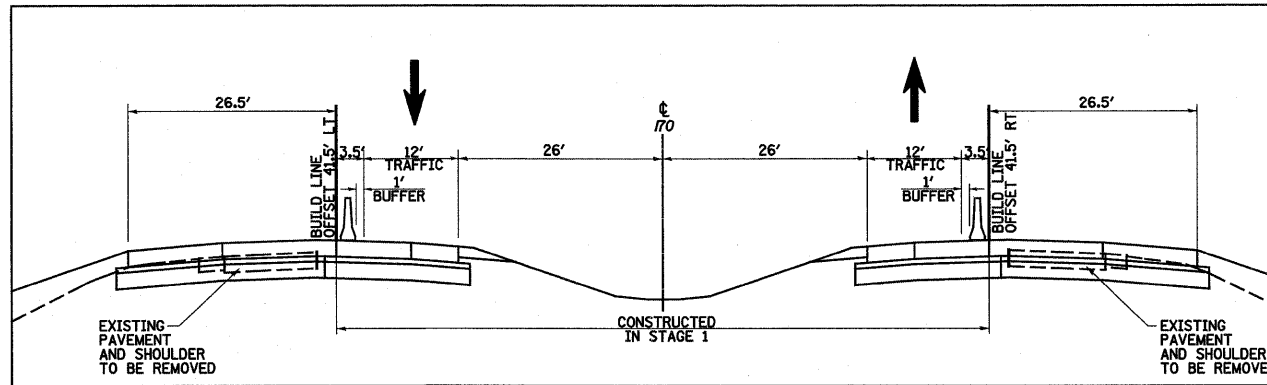
FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC, STAGE 1, FAI ROUTE 70	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
DRAWN - PDB						70	(25-3)B	EFFINGHAM	1416	24	
CHECKED - BRM						CONTRACT NO. 74296					
DATE - 4-30-09						ILLINOIS FED. AID PROJECT					
PLOT SCALE = 1/8" = 50' / IN.		DATE		SCALE: 1"=50'	SHEET NO. 3 OF 6 SHEETS	STA. 1993+00.00 TO STA. 2007+00.00					



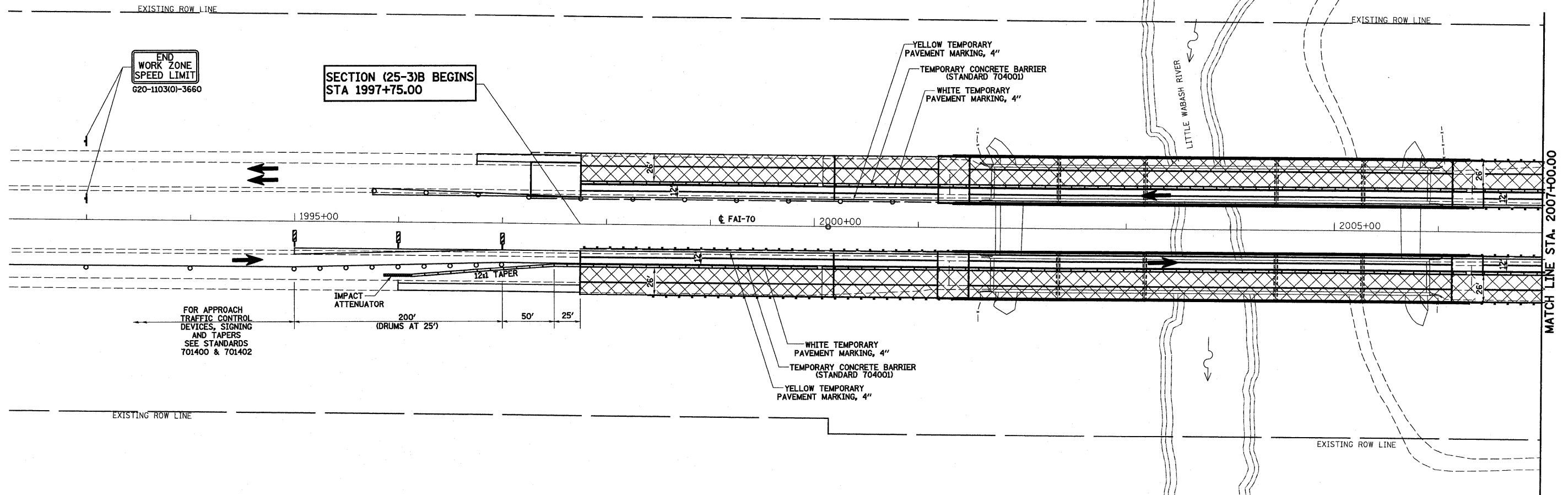
- TEMPORARY PCC PAVEMENT
- CONSTRUCTION THIS STAGE
- SIGN
- DIRECTION OF TRAFFIC
- TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS
- VERTICAL PANELS
- TEMPORARY CONCRETE BARRIER



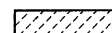






FILE NAME =	USER NAME = betaj	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC, STAGE 1, FAI ROUTE 70	F.A.I. RTE. 70	SECTION (25-3)B	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 25	
PLOT SCALE = 100.0000' / IN.						CONTRACT NO. 74296					
PLOT DATE = 3/19/2010						ILLINOIS FED. AID PROJECT					
DATE = 4-30-09						SCALE: 1"=50' SHEET NO. 4 OF 6 SHEETS STA. 2007+00.00 TO STA. 2021+00.00					



TYPICAL APPLICATION

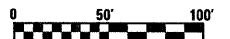


LEGEND

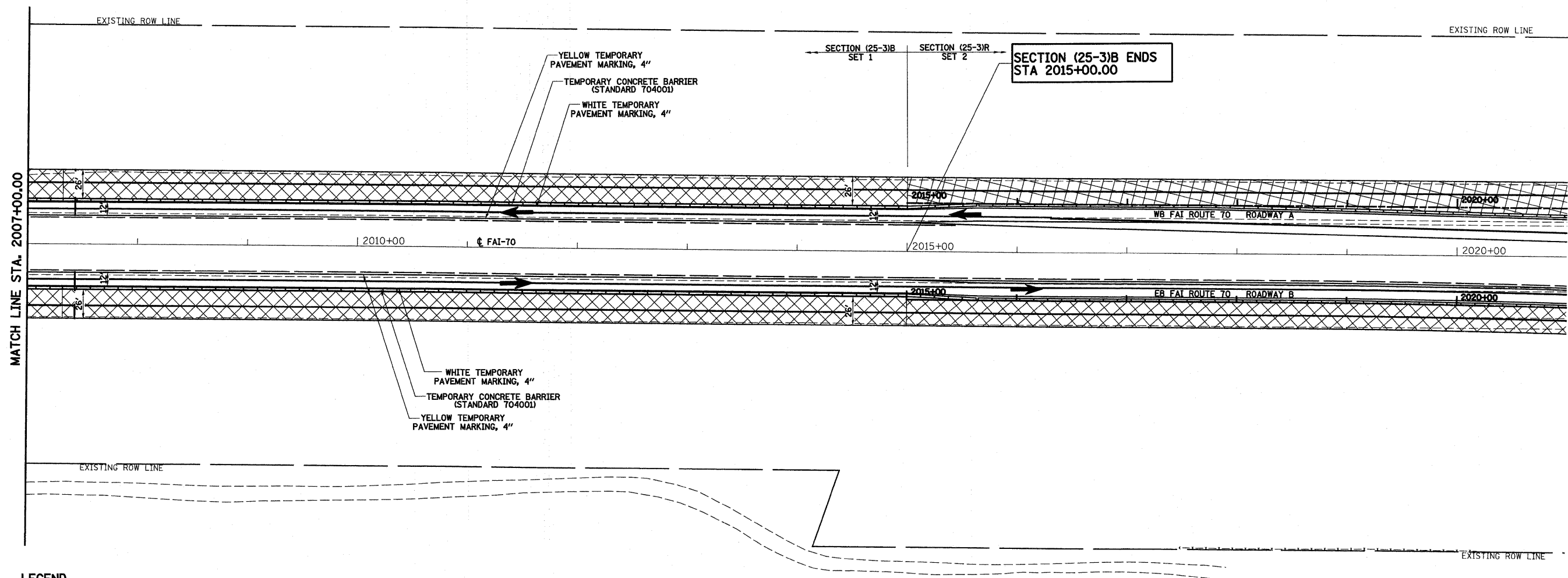
-  TEMPORARY PCC PAVEMENT
-  CONSTRUCTION THIS STAGE
-  SIGN
-  DIRECTION OF TRAFFIC
-  TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS
-  VERTICAL PANELS
-  TEMPORARY CONCRETE BARRIER

NOTES: STAGE 2

1. SHIFT TRAFFIC ONTO NEWLY CONSTRUCTED PAVEMENT ON INSIDE.
2. CONSTRUCT REMAINING PROPOSED PAVEMENT AND FINAL GRADING OPERATIONS.

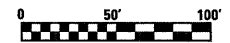


FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC, STAGE 2, FAI ROUTE 70	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
SAProjects\488-000-017 Little Wabash\488-000 Sheets\071999-01c-stage2.dwg		DRAWN - PDB	REVISED -			70	(25-3)B	EFFINGHAM	1416	26	
PLOT SCALE = 1/8"=50' / IN.		CHECKED - BRM	REVISED -			CONTRACT NO. 74296					
PLOT DATE = 3/16/2010		DATE - 4-30-09	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
				SCALE: 1"=50'		SHEET NO. 5 OF 6 SHEETS		STA. 1993+00.00 TO STA. 2007+00.00			

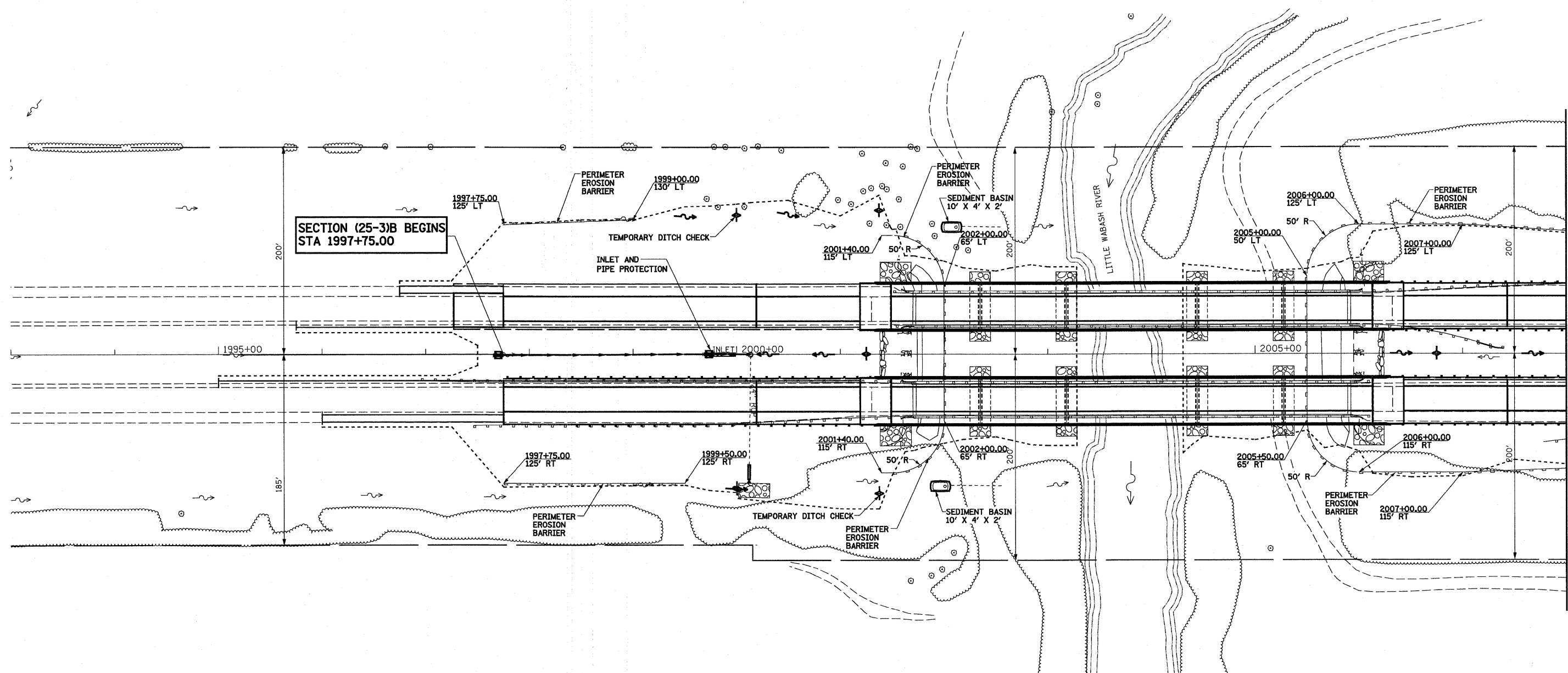


LEGEND

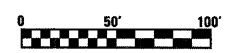
- TEMPORARY PCC PAVEMENT
- CONSTRUCTION THIS STAGE
- SIGN
- DIRECTION OF TRAFFIC
- TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS



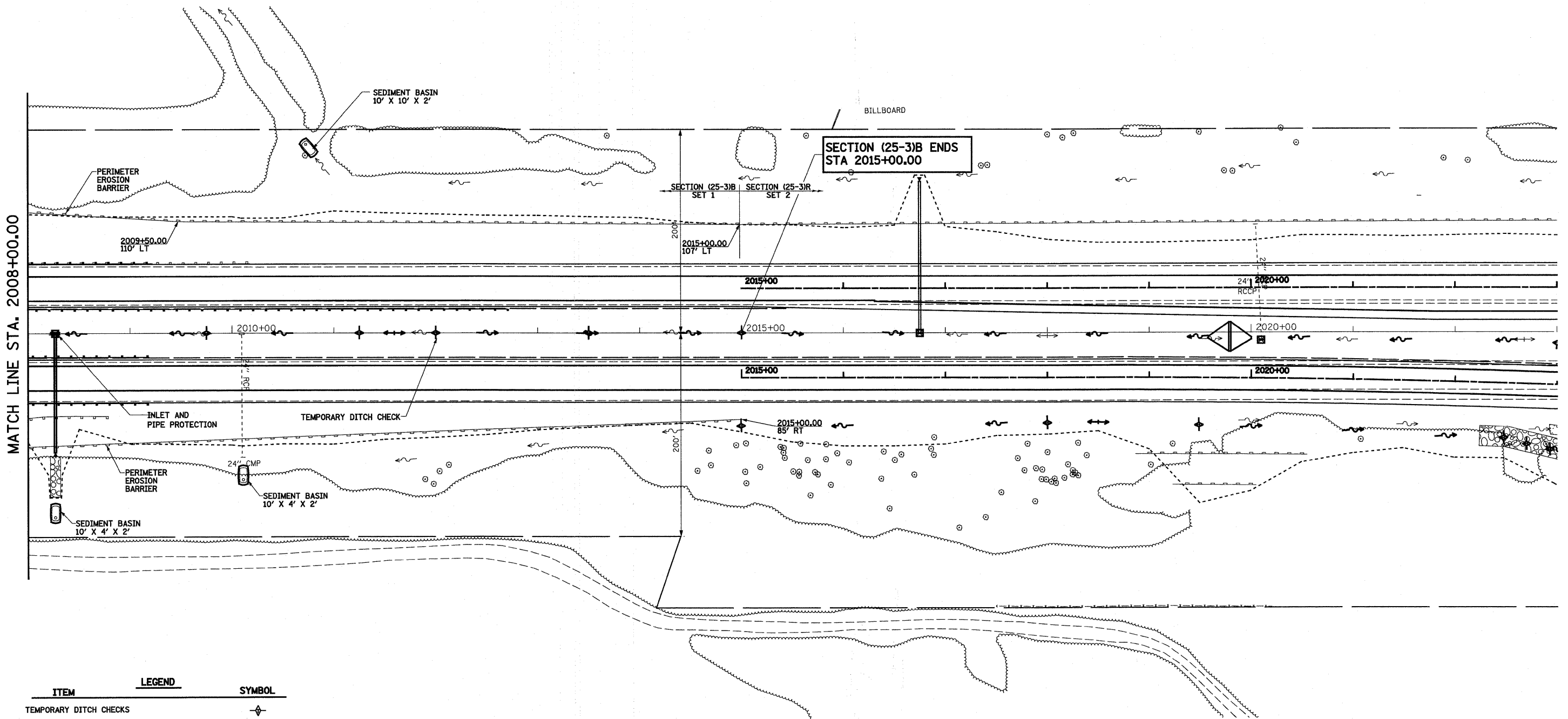
FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC, STAGE 2, FAI ROUTE 70	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - PDB	REVISED -			70	(25-3)B	EFFINGHAM	1416	27	
		CHECKED - BRM	REVISED -			CONTRACT NO. 74296					
		DATE - 4-30-09	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
		PLOT SCALE = 1/8"=50' / IN.		SCALE: 1"=50'		SHEET NO. 6 OF 6 SHEETS		STA. 2007+00.00 TO STA. 2021+00.00			
		PLOT DATE = 2/11/2010									



ITEM	LEGEND	SYMBOL
TEMPORARY DITCH CHECKS		
PERIMETER EROSION BARRIER		
SUMMIT		
ROADWAY DITCH FLOW		
INLET AND PIPE PROTECTION		
EROSION CONTROL BLANKET		
SEDIMENT BASIN		

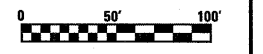


FILE NAME =	USER NAME = paul	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL PLAN, FAI ROUTE 70			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL#		DRAWN - PDB	REVISED -					70	(25-3)B	EFFINGHAM	1416	28
	PLOT SCALE = 100.000000' / IN.	CHECKED - BRM	REVISED -					CONTRACT NO. 74296				
CB JOB NO 08051	PLOT DATE = 2/11/2010	DATE - 12/7/09	REVISED -					SCALE: 1"=50'	SHEET NO. 1 OF 2 SHEETS	STA. 1993+00.00 TO STA. 2008+00.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

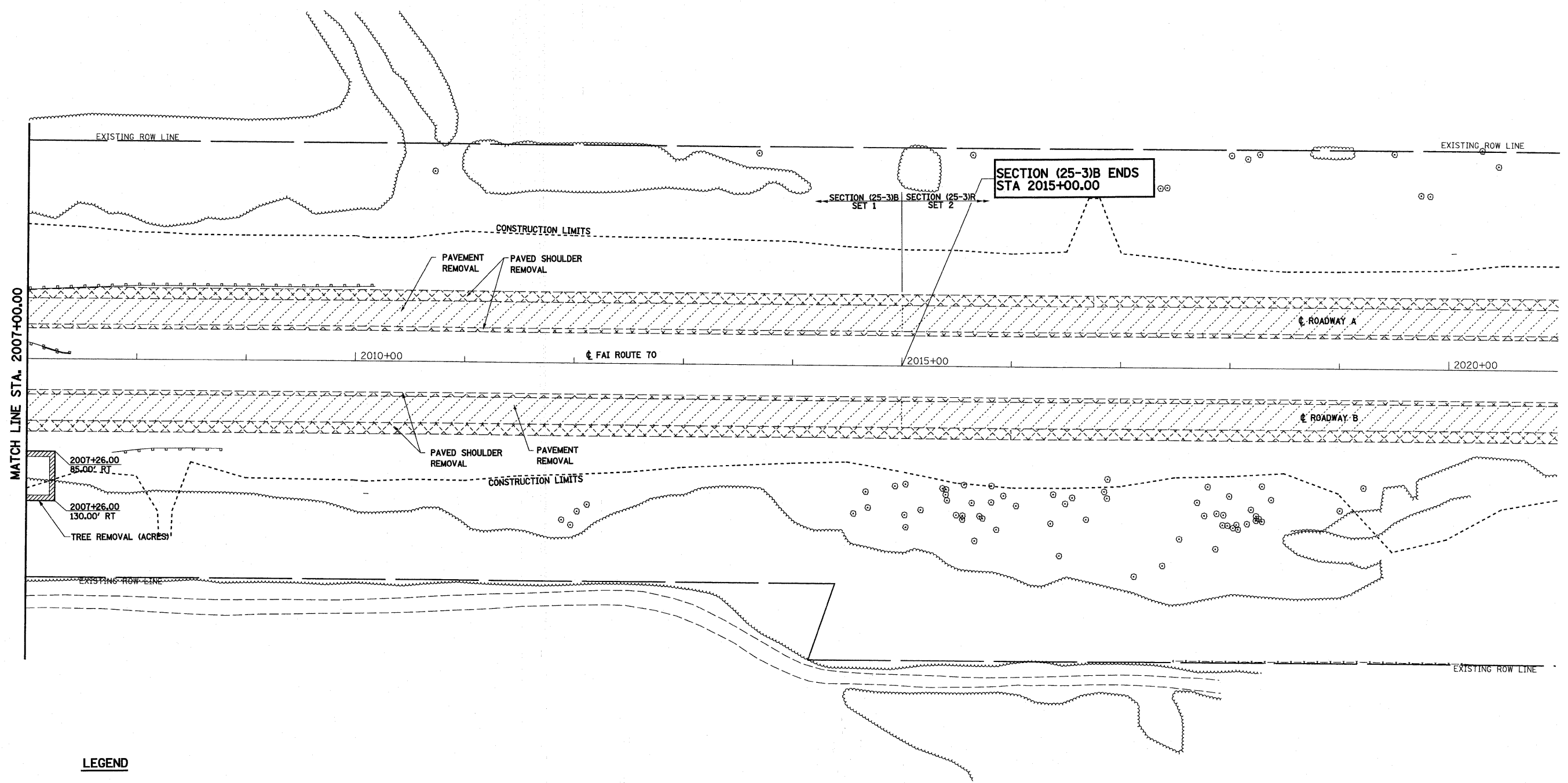


MATCH LINE STA. 2008+00.00

ITEM	LEGEND	SYMBOL
TEMPORARY DITCH CHECKS		
PERIMETER EROSION BARRIER		
SUMMIT		
ROADWAY DITCH FLOW		
INLET AND PIPE PROTECTION		
EROSION CONTROL BLANKET		
SEDIMENT BASIN		

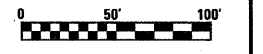


FILE NAME =	USER NAME = paul	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL PLAN, FAI ROUTE 70			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILE.L		DRAWN - PDB	REVISED -					70	(25-3)B	EFFINGHAM	1416	29
	PLOT SCALE = 100.000000' / IN.	CHECKED - BRM	REVISED -					CONTRACT NO. 74296				
CB JOB NO 08051	PLOT DATE = 2/11/2010	DATE - 12/7/09	REVISED -					SCALE: 1"=50'	SHEET NO. 2 OF 2 SHEETS	STA. 2008+00.00 TO STA. 2023+00.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

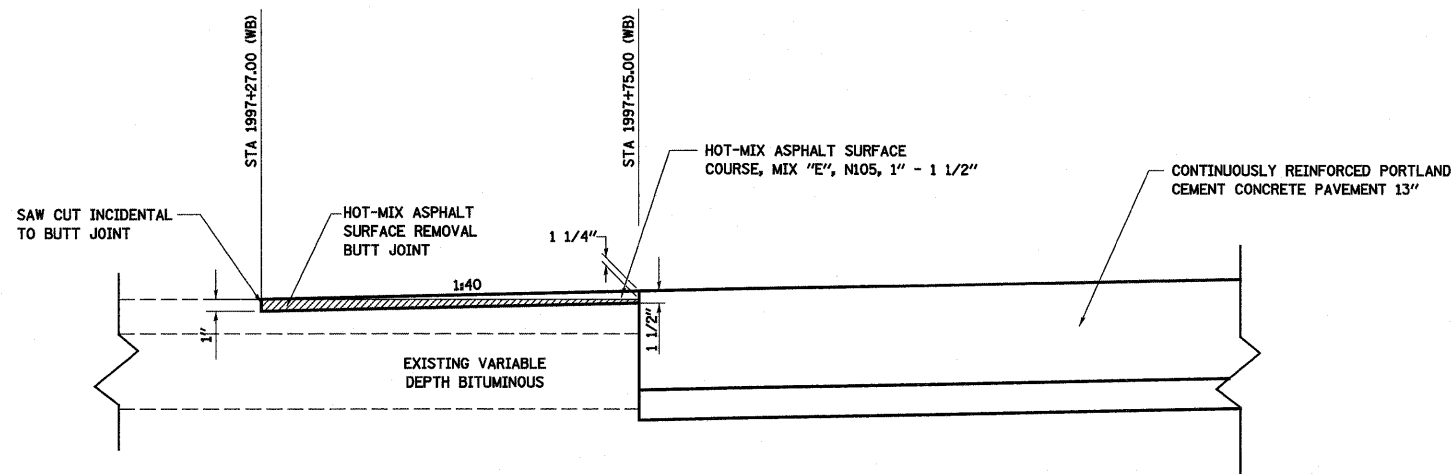


LEGEND

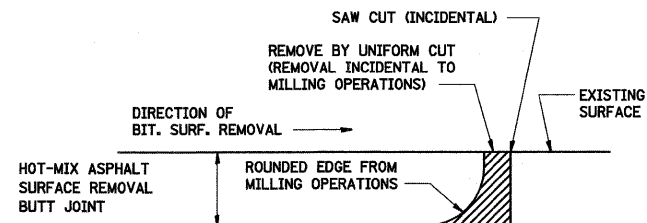
- PAVEMENT REMOVAL
- SHOULDER REMOVAL
- APPROACH SLAB REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL- BUTT JOINT
- TREE REMOVAL (ACRES)
- TREE REMOVAL (UNITS)



FILE NAME =	USER NAME = paul	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL PLAN, FAI ROUTE 70			F.A.I RTE. 70	SECTION (25-3)B	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 31
S:\projects\100-8000-01\100-8000-01\100-8000-01\100-8000-01.dgn		DRAWN - PDB	REVISED -		SCALE: 1"=50'	SHEET NO. 2 OF 2 SHEETS	STA. 2007+00.00 TO STA. 2021+00.00	CONTRACT NO. 74296				
		CHECKED - BRM	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
		DATE - 4-30-09	REVISED -									

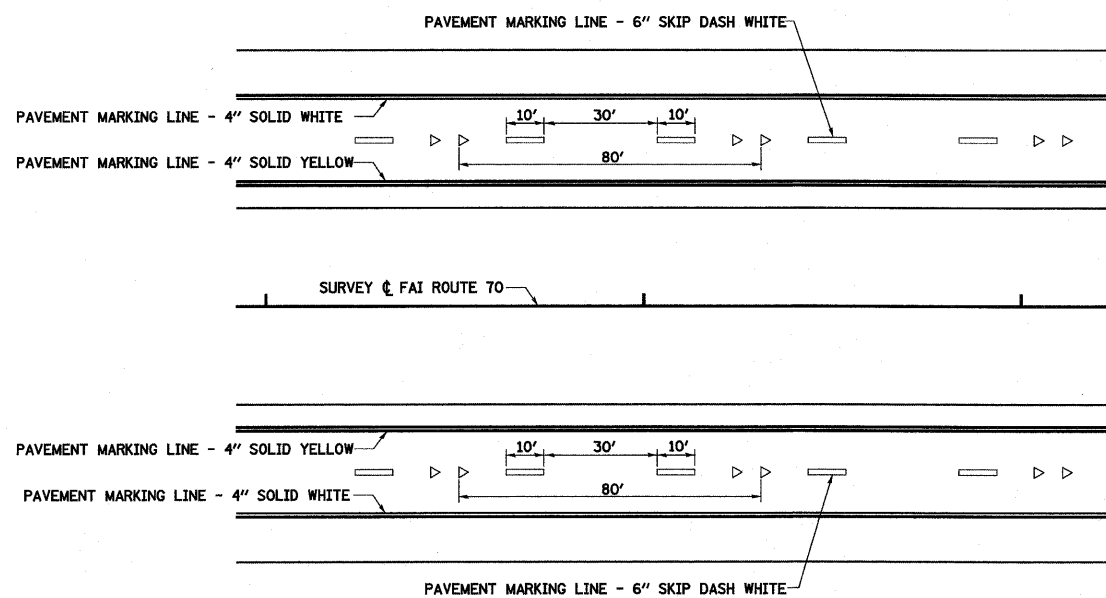


DETAIL OF BUTT JOINT
NOT TO SCALE

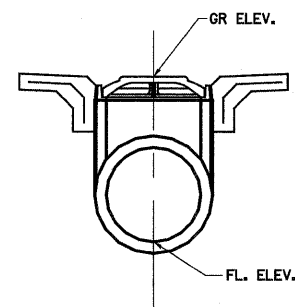


NOTE: WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.

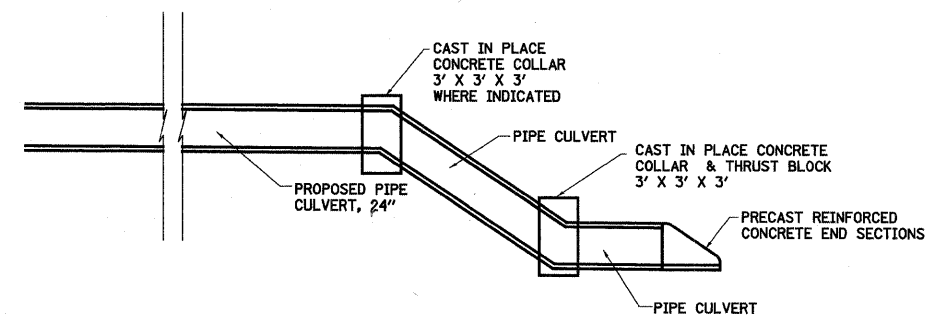
BITUMINOUS DETAIL AT BUTT JOINTS
NOT TO SCALE



PAVEMENT MARKING DETAIL



**24" MEDIAN INLET (604101)
WITH REINFORCED CONCRETE
PIPE TEE, 24" WITH 24" RISER (542606)**



MEDIAN DRAIN DETAIL

FILE NAME =	USER NAME = paul	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISCELLANEOUS DETAILS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5:\projects\74296\74296.dwg		DRAWN - PDB	REVISED -					70	(25-3)B	EFFINGHAM	1416	32
PLOT SCALE = 1/8" = 1' / IN.		CHECKED - BRM	REVISED -		SCALE: 1"=50'			SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.	
PLOT DATE = 3/16/2018		DATE - 4-28-09	REVISED -		CONTRACT NO. 74296			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

Bench Mark 551: Chiseled square on top of slope wall on east side of Little Wabash River Station 2005+86.10, 25.7' off of centerline I-70 West. Elev. 521.58

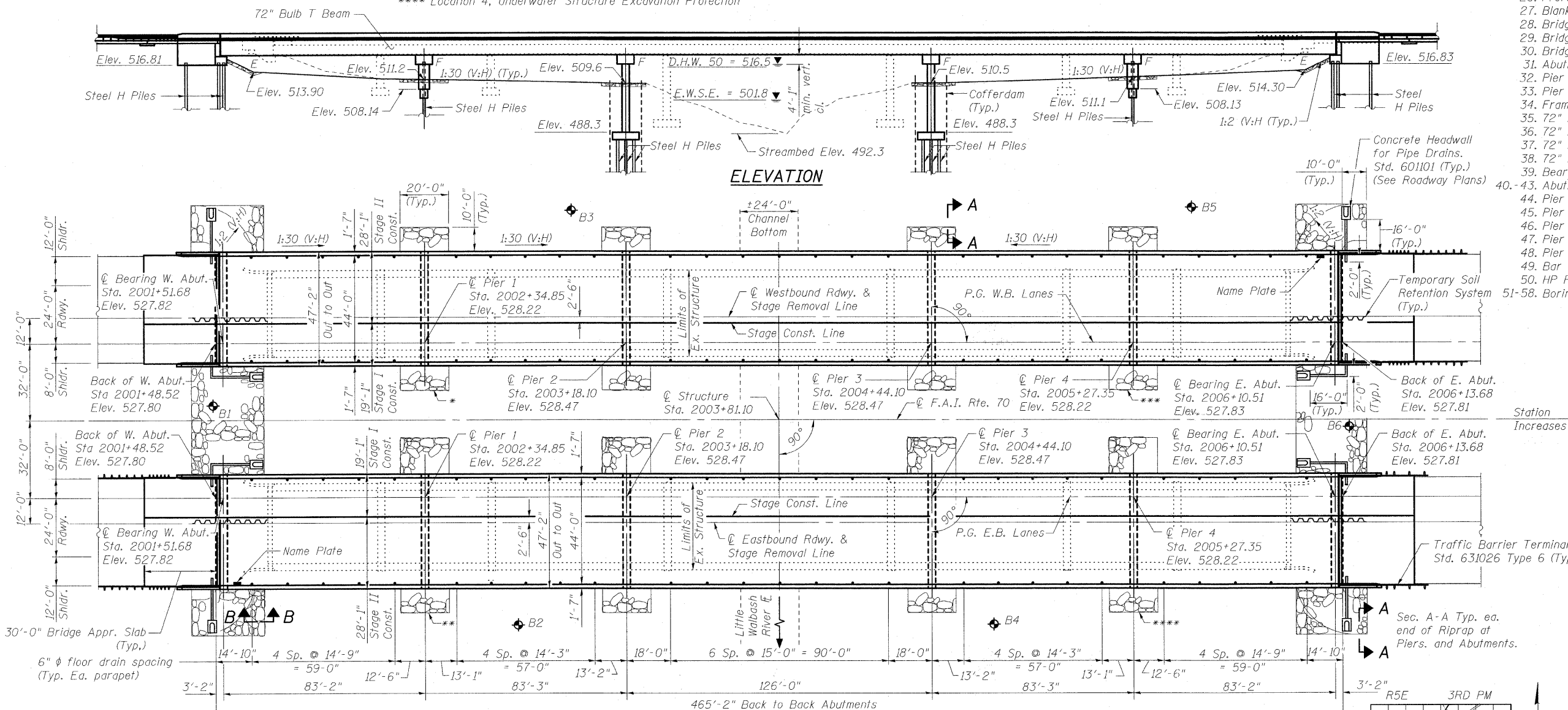
Existing Structures: S.N. 025-0009 (E.B.) and 025-0010 (W.B.) were built as F.A.I. Route 70, Section 25-3B in 1959. They are seven span dual structures 422'-3" back to back abutments, consisting of 3 units: 2 two span continuous units (45'-0", 45'-7 1/2") at each end and a three span continuous unit (72'-7 1/2", 92'-2", 72'-7 1/2") in the center. The out to out of deck is 35'-8" and is supported on six steel wide flange beams. The substructure consists of pile bent abutments and hammerhead piers. All substructure units are supported by concrete piles. Existing structures are to be removed and replaced with new structures. One lane of traffic to be maintained on each structure by utilizing Stage Construction.

No Salvage.

For Sections A-A & B-B see sheet 2 of 58.

- * Location 1, Underwater Structure Excavation Protection
- ** Location 2, Underwater Structure Excavation Protection
- *** Location 3, Underwater Structure Excavation Protection
- **** Location 4, Underwater Structure Excavation Protection

1. General Plan & Elevation
2. General Data
3. Stage Construction & Temporary Soil Retention System
4. Cofferdam Details
5. Footing Layout
6. Temporary Concrete Barrier for Stage Construction
- 7.-18. Top of Slab Elevations
- 19.-20. Approach Pavement Top of Slab Elevations (W.B.)
- 21.-22. Approach Pavement Top of Slab Elevations (E.B.)
23. Superstructure (W.B.)
24. Superstructure (E.B.)
25. Superstructure Detail
26. Preformed Joint Strip Seal
27. Blank Sheet
28. Bridge Approach Slab (W.B.)
29. Bridge Approach Slab (E.B.)
30. Bridge Approach Slab Details
31. Abutment Diaphragm Details
32. Pier Diaphragm Details (W.B.)
33. Pier Diaphragm Details (E.B.)
34. Framing Plan
35. 72" PCC Bulb T-Beam Spans 1 & 5
36. 72" PCC Bulb T-Beam Spans 2 & 4
37. 72" PCC Bulb T-Beam Span 3
38. 72" PCC Bulb T-Beam Details
39. Bearing Details
- 40.-43. Abutment Details
44. Pier 1 & 4 (W.B.)
45. Pier 1 & 4 (E.B.)
46. Pier 2 & 3 (W.B.)
47. Pier 2 & 3 (E.B.)
48. Pier 2 & 3 Footing Plan
49. Bar Splicer Assembly Details
50. HP Pile Details
- 51-58. Boring Logs



STATION 2003+81.10
BUILT 20__ BY
STATE OF ILLINOIS
F.A.I. RT. 70 SEC. (25-3)B
LOADING HL-93
STRUCTURE NO. 025-0107

STATION 2003+81.10
BUILT 20__ BY
STATE OF ILLINOIS
F.A.I. RT. 70 SEC. (25-3)B
LOADING HL-93
STRUCTURE NO. 025-0108

NAME PLATE
See Std. 515001

GENERAL PLAN
I-70 OVER LITTLE WABASH RIVER
F.A.I. ROUTE 70 - SECTION (25-3)B
STATION 2003+81.10
STRUCTURE NO. 025-0107 (E.B.)
STRUCTURE NO. 025-0108 (W.B.)

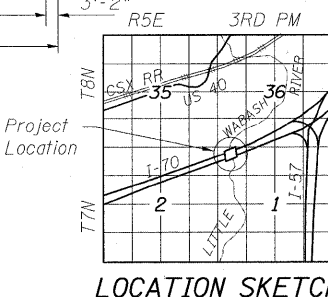
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut.	Pier 1	Pier 2	Pier 3	Pier 4	E. Abut.
	516.60	504.3	488.3	488.3	505.3	516.62

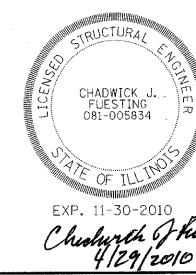
WATERWAY INFORMATION

Exist. Low Grade Elev. 526.2 ft. @ Sta. 2003+81.10
Pr. Low Grade Elev. 527.22 ft. @ Sta. 2008+31.10

Flood	Freq. Yr.	Q	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	10	12218	3182	3414	515.1	515.1	0.7	0.7	515.8	515.8
Base	50	18252	3956	4279	516.5	516.5	1.3	1.3	517.8	517.8
Max. Calc.	100	21009	4217	4630	517.0	517.0	1.6	1.5	518.6	518.5
	500	27899	4895	5259	518.1	518.1	2.2	2.0	520.3	520.1



DESIGNED B.B.
CHECKED A.C.S.
DRAWN W.J.S.
CHECKED C.J.F. & B.B.



APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Roland E. Anderson (TOP)
ENGINEER OF BRIDGES AND STRUCTURES

Illinois Design Firm Number 184.001670
BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.
3 Oak Drive
Maryville, IL 62062-5655
Local (618) 288-4995
Fax (618) 288-4995

SHEET NO. 1 58 SHEETS	F.A.I. RTE. 70	SECTION (25-3)B	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 33
	SN 025-0107 & 025-0108			CONTRACT NO. 74296	
FED. ROAD DIST. NO. 7 [ILLINOIS] FED. AID PROJECT 70					

15:27:22 PM 4/29/2010 J:\0250107-5499-001.dgn

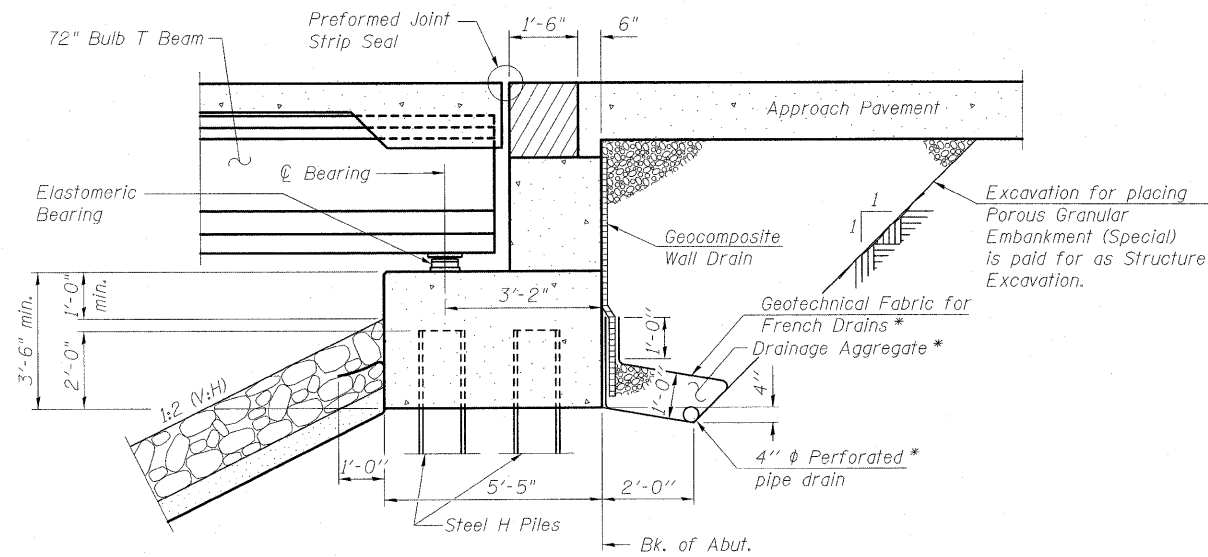
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUBSTRUCTURE		TOTAL
			ABUT.	PIER	
Porous Granular Embankment (Special)	Cu. Yd.		460		460
Stone Riprap, Class A4	Sq. Yd.		1051	1079	2130
Filter Fabric	Sq. Yd.		1051	1079	2130
Protective Coat	Sq. Yd.	6091			6091
Removal of Existing Structures	Each	2			2
Structure Excavation	Cu. Yd.		1289	152	1441
Cofferdam Excavation	Cu. Yd.		4172		4172
Cofferdams, Location 1	Each		1		1
Cofferdams, Location 2	Each		1		1
Cofferdams, Location 3	Each		1		1
Cofferdams, Location 4	Each		1		1
Floor Drains	Each	108			108
Concrete Structures	Cu. Yd.		368.0	1347.6	1715.6
Concrete Superstructure	Cu. Yd.	1944.7			1944.7
Bridge Deck Grooving	Sq. Yd.	4861			4861
Seal Coat Concrete	Cu. Yd.			698	698
Concrete Encasement	Cu. Yd.		32.8	38.0	70.8
Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams, 72"	Foot	6387			6387
Reinforcement Bars, Epoxy Coated	Pound	445060	32680	193510	671250
Bar Splicers	Each	3158	284	456	3898
Furnishing Steel HP 14x73	Foot		3948	13396	17344
Driving Piles	Foot		3948	13396	17344
Test Piles, Steel HP 14x73	Each		4	8	12
Name Plates	Each	2			2
Preformed Joint Strip Seal	Each	184			184
Elastomeric Bearing Assembly, Type II	Each	28			28
Anchor Bolts, 5/8"	Each		56		56
Anchor Bolts, 1/4"	Each			32	32
Concrete Sealer	Sq. Ft.		2727		2727
Geocomposite Wall Drain	Sq. Yd.		185		185
Pipe Underdrain for Structures, 4"	Foot		325		325
Mechanical Splicer	Each		12	1536	1548
Underwater Structure Excavation Protection, Location 1	Each			1	1
Underwater Structure Excavation Protection, Location 2	Each			1	1
Underwater Structure Excavation Protection, Location 3	Each			1	1
Underwater Structure Excavation Protection, Location 4	Each			1	1
Diamond Grinding (Bridge Section)	Sq. Yd.		4630		4630
Temporary Soil Retention System	Sq. Ft.		1638		1638

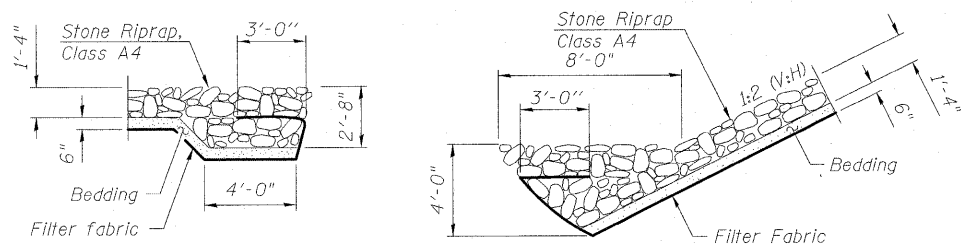
GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
Reinforcement bars designated (E) shall be epoxy coated.
Concrete Sealer shall be applied to the designated areas of the Substructure.
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
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.
The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.
Seal coat thickness design is based on the Estimated Water Surface Elevation (EWSE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design.
Slip forming of the concrete parapet is not allowed.



SECTION THRU PILE SUPPORTED
STUB ABUTMENT

* Included in the cost of Pipe Underdrain for Structures, 4"
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 side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



SECTION A-A

SECTION B-B

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
f'ci = 5,000 psi
fpu = 270,000 psi (low lax. 1/2" dia. strands)
fpbt = 201,960 psi (low lax. 1/2" dia. strands)

DESIGN SPECIFICATIONS

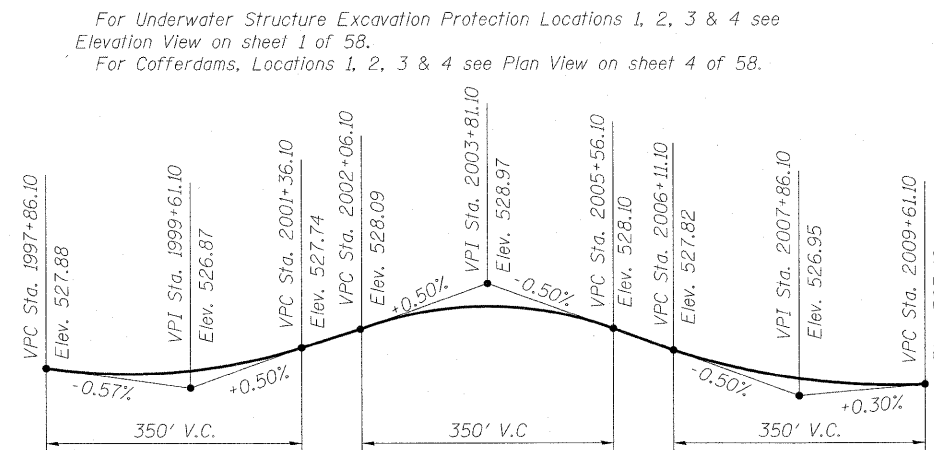
2007 AASHTO LRFD Bridge Design Specifications
4th Edition with 2008 Interims

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.22 g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.48 g
Soil Site Class = D



PROFILE GRADE

(E.B. & W.B. F.A.I. Rte. 70)

GENERAL DATA
S.N. 025-0107 & 025-0108

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

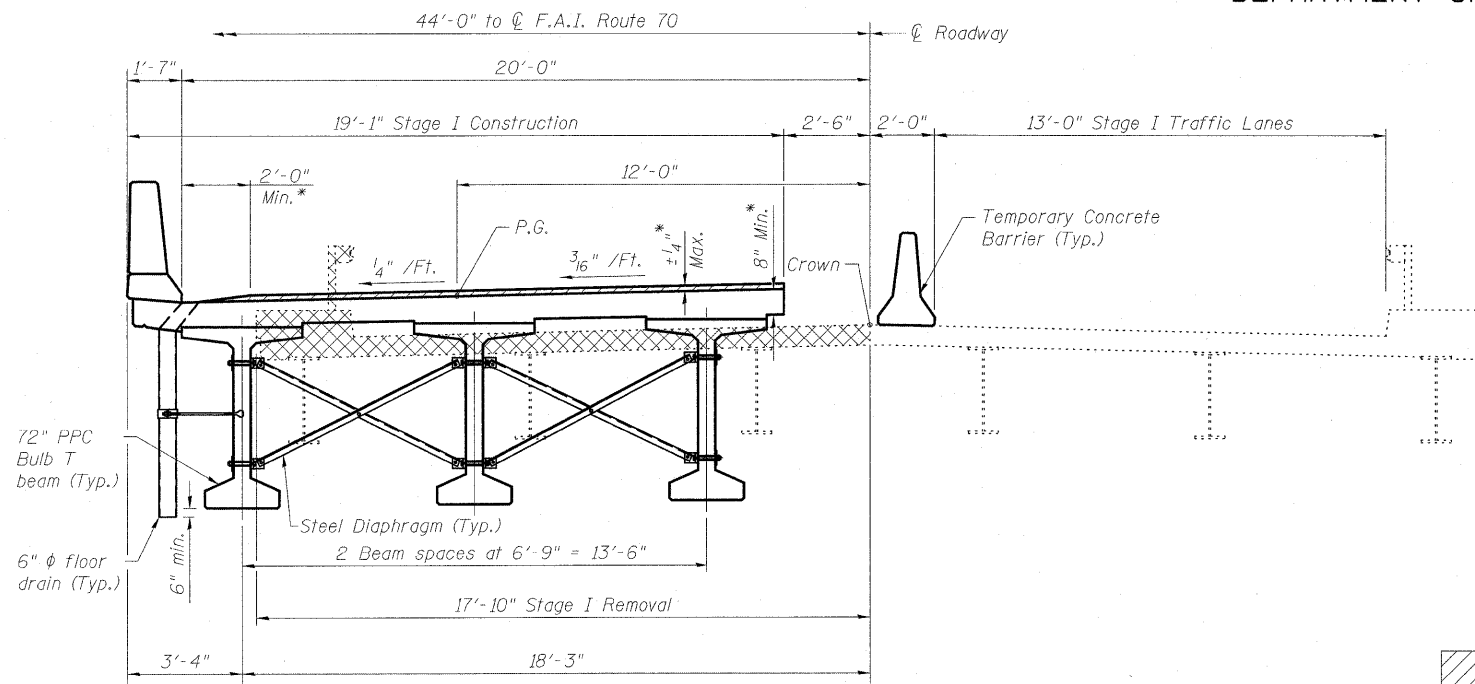


BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

3 Oak Drive
Maryville, IL 62962-6635
Local (618) 298-4665
Fax 618-298-4666

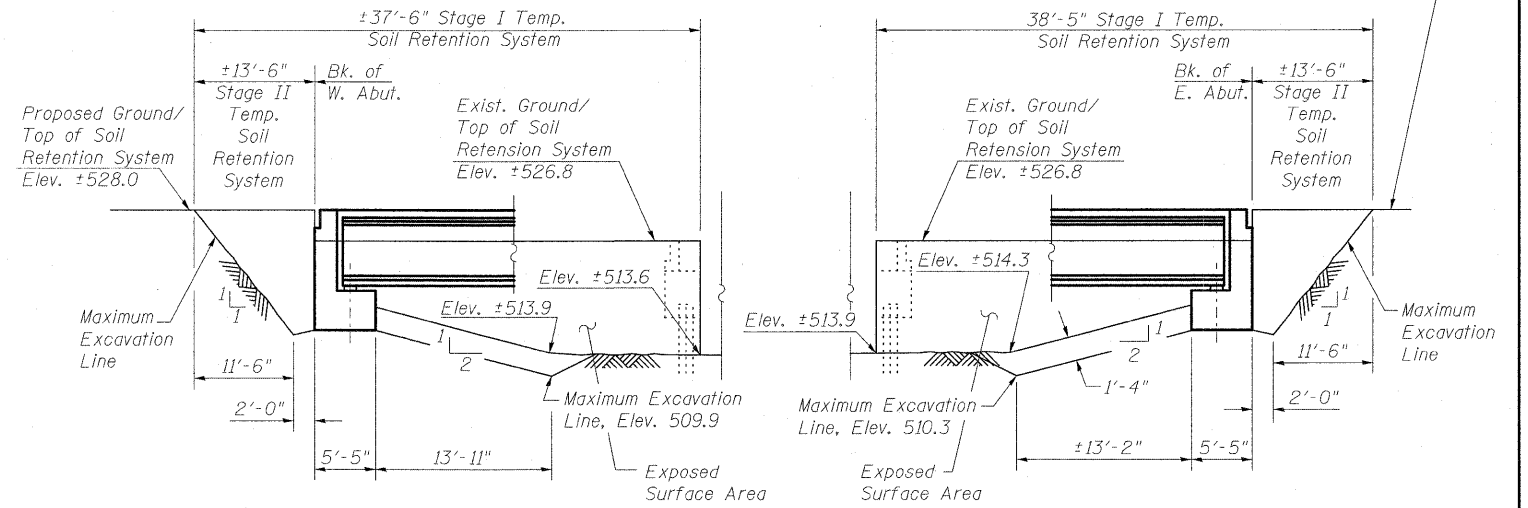
SHEET NO. 2 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	34
		SN 025-0107 & 025-0108		CONTRACT NO. 74296	
		FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT 70	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



STAGE I CONSTRUCTION

Looking West - S.N. 025-0108 (W.B.)
Looking East - S.N. 025-0107 (E.B.)



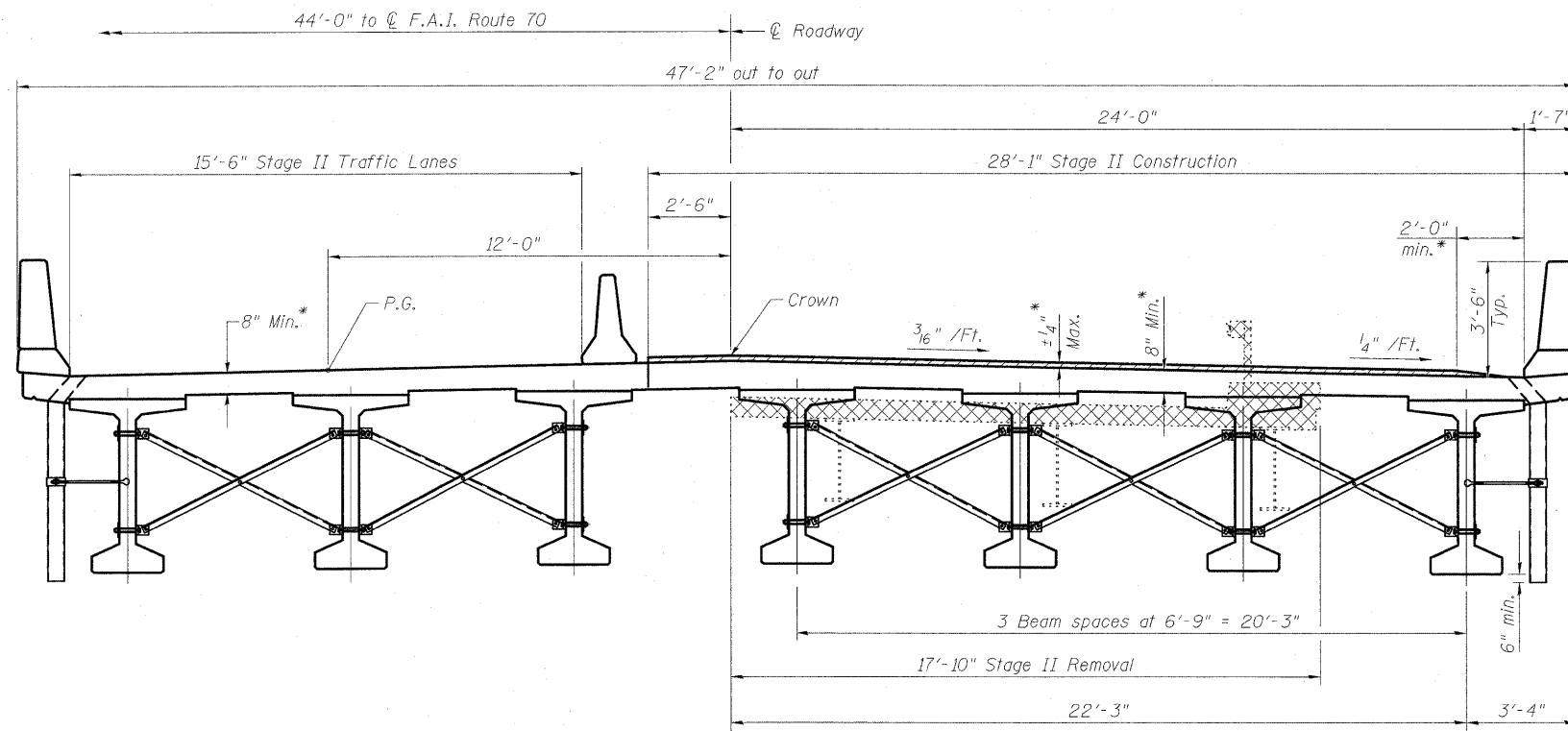
WEST ABUTMENT

EAST ABUTMENT

SOIL RETENTION SYSTEM

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.

- Indicates Deck Removal. See Diamond Grinding and Surface Testing Bridge Sections Special Provisions.
- Indicates Removal of Existing Structure.



STAGE II CONSTRUCTION

Looking West - S.N. 025-0108 (W.B.)
Looking East - S.N. 025-0107 (E.B.)

*See Diamond Grinding and Surface Testing Bridge Sections Special Provision.

Note:
Stage Construction lines at the Piers are at different locations than the Superstructure. See sheets 5 and 45 thru 48 of 58 for Stage Construction line at Piers.

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

**STAGE CONSTRUCTION &
TEMPORARY SOIL RETENTION
SYSTEM DETAILS**
S.N. 025-0107 & 025-0108

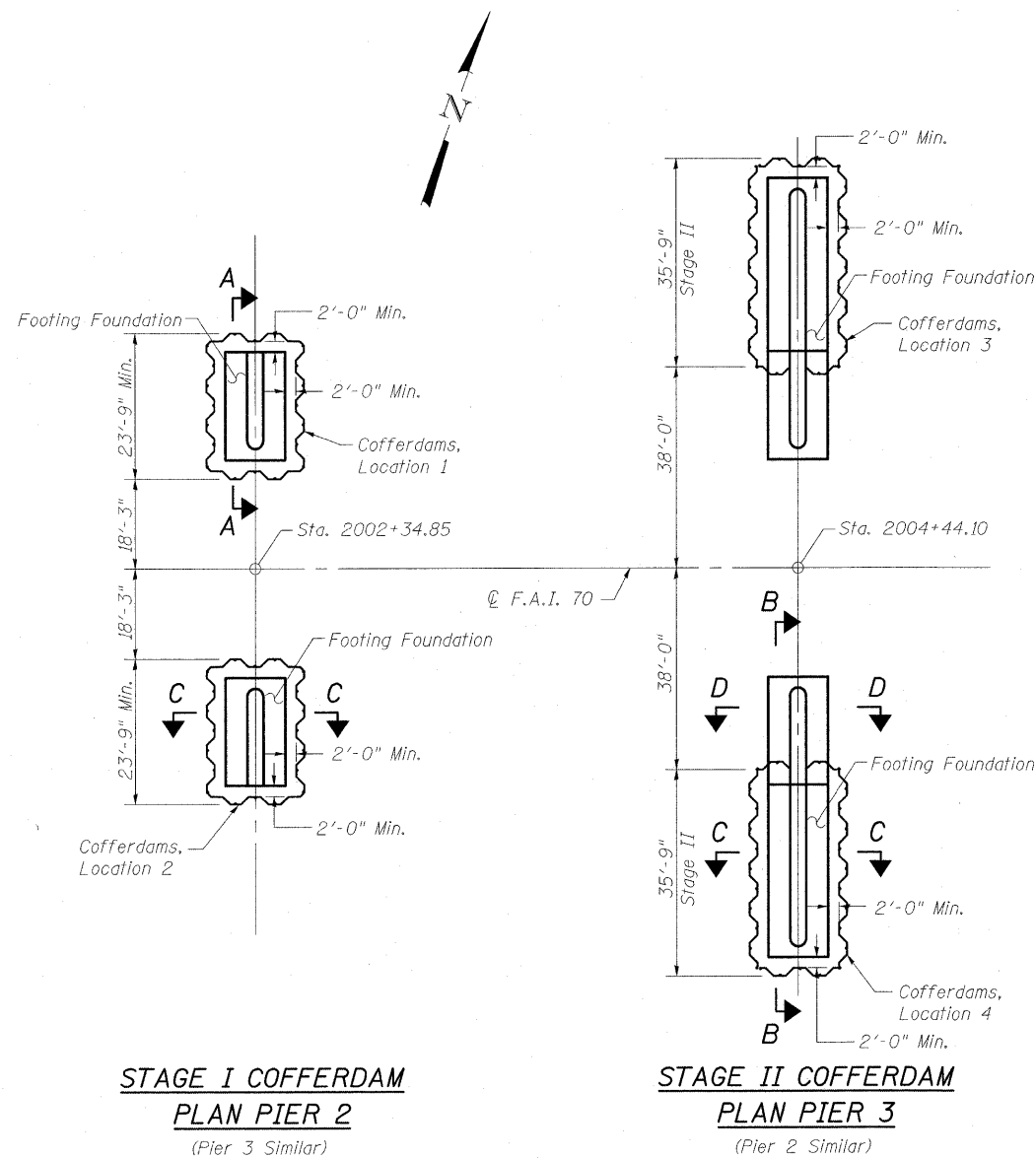


**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62062-5635
Local (618) 298-4955
Fax 618-298-4669

SHEET NO. 3 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	35
SN 025-0107 & 025-0108			CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

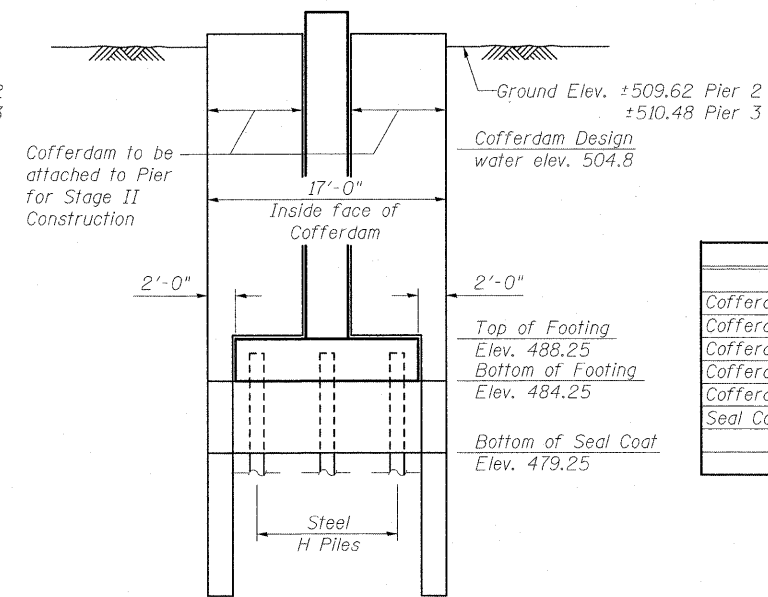
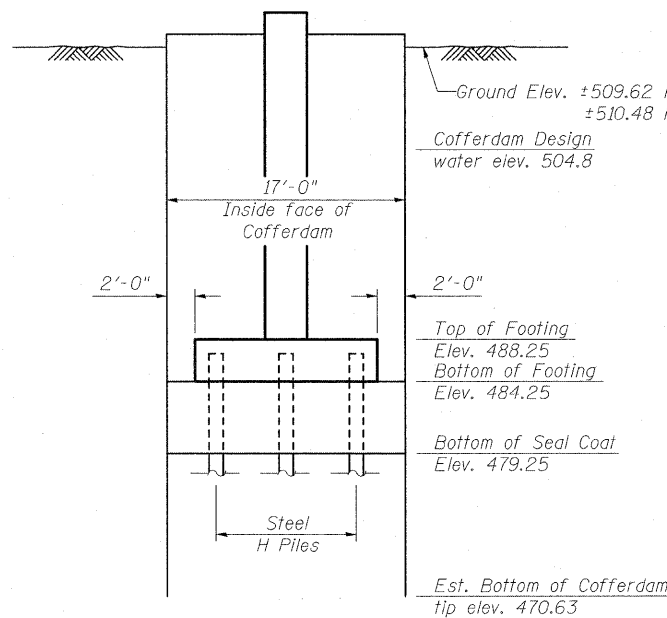
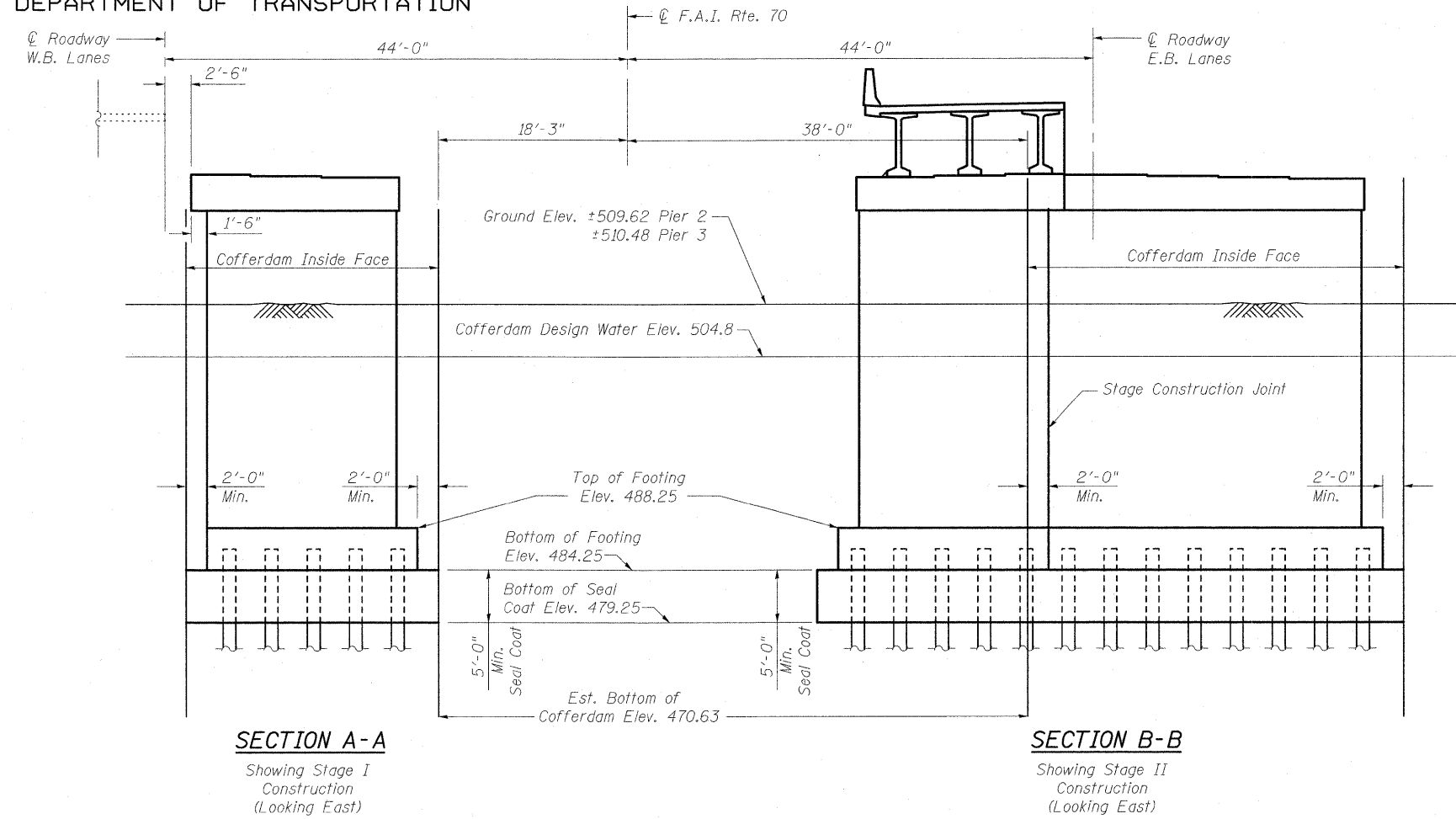
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PLAN

For Footing Size, Number & Pile Spacing see sheet 48 of 58.
Each Cofferdam Location represents both Stage I & Stage II Cofferdams.

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.



BILL OF MATERIAL FOR FOUR LOCATIONS

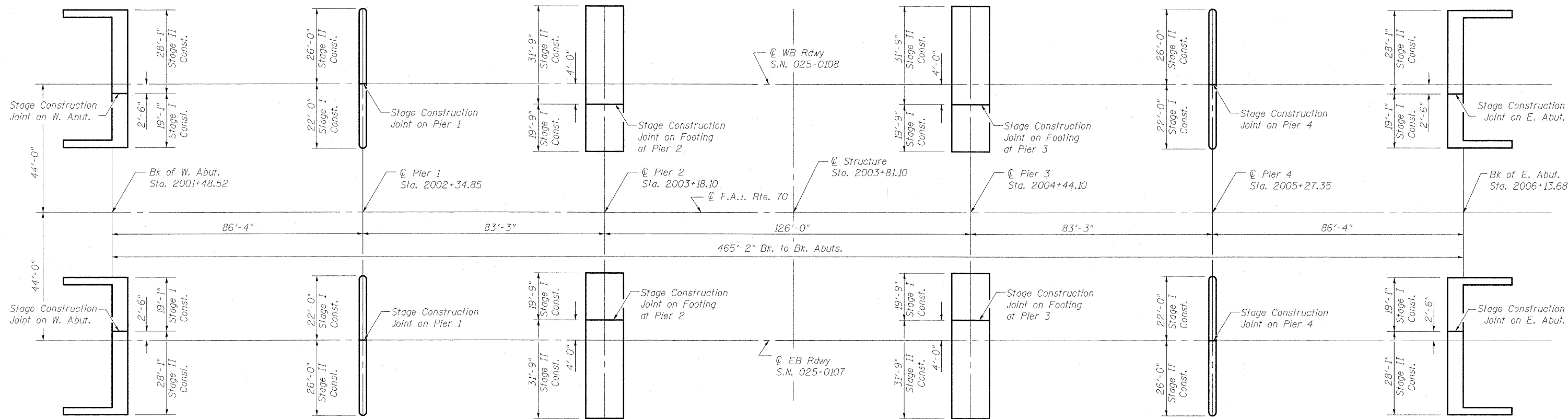
ITEM	UNIT	TOTAL
Cofferdam Excavation	Cu. Yd.	4172
Cofferdams, Location 1	Each	1
Cofferdams, Location 2	Each	1
Cofferdams, Location 3	Each	1
Cofferdams, Location 4	Each	1
Seal Coat Concrete	Cu. Yd.	698

COFFERDAM DETAILS
S.N. 025-0107 & 025-0108

SHEET NO. 4 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	36
SN 025-0107 & 025-0108			CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

BERNARDIN LOCHMUELLER & ASSOCIATES, INC.
3 Oak Drive
Maryville, IL 62062-5686
Local (618) 288-4665
Fax 618-288-4666

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



FOOTING LAYOUT

For Substructure Details, see sheets 40 thru 48 of 58.

FOOTING LAYOUT
S.N. 025-0107 & 025-0108

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.



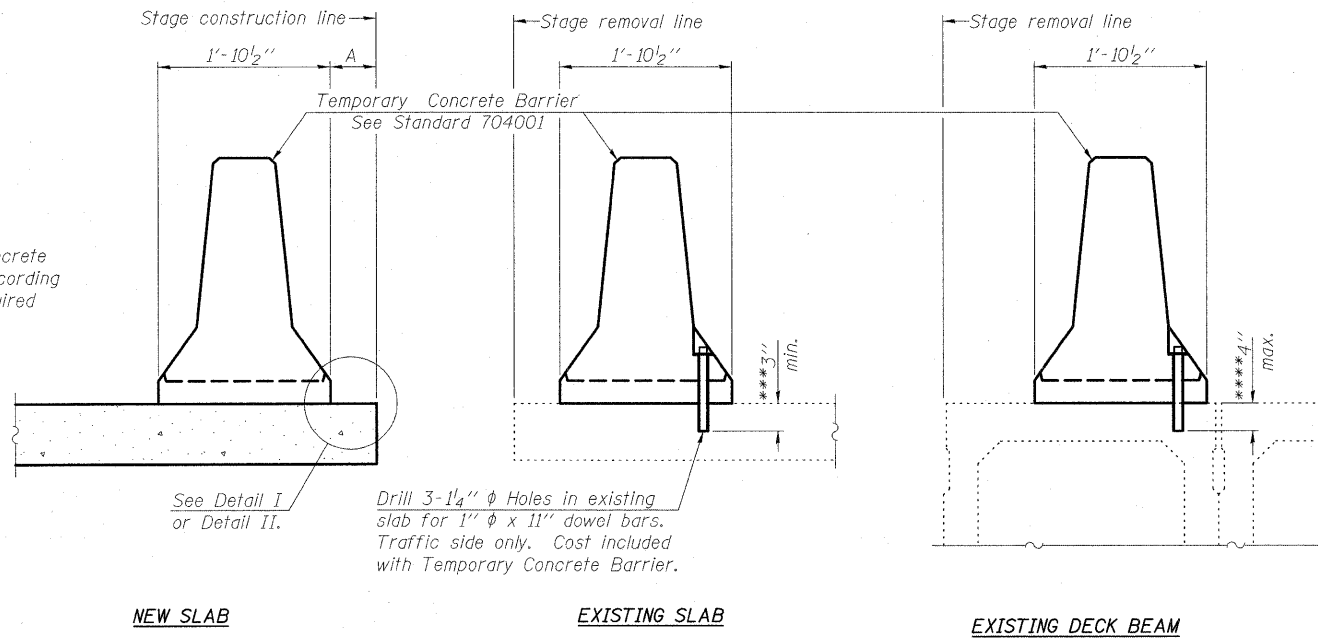
**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62062-5685
Local (618) 298-4665
Fax 618-298-4666

SHEET NO. 5 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	37
SN 025-0107 & 025-0108			CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 70		

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" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

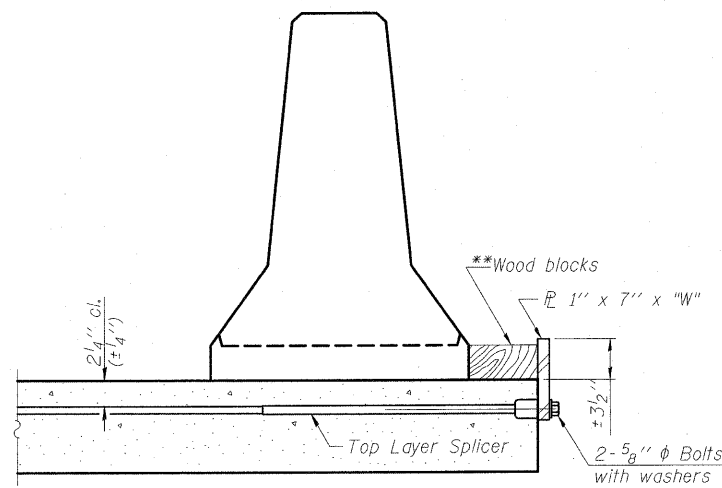
Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel \bar{P} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

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.

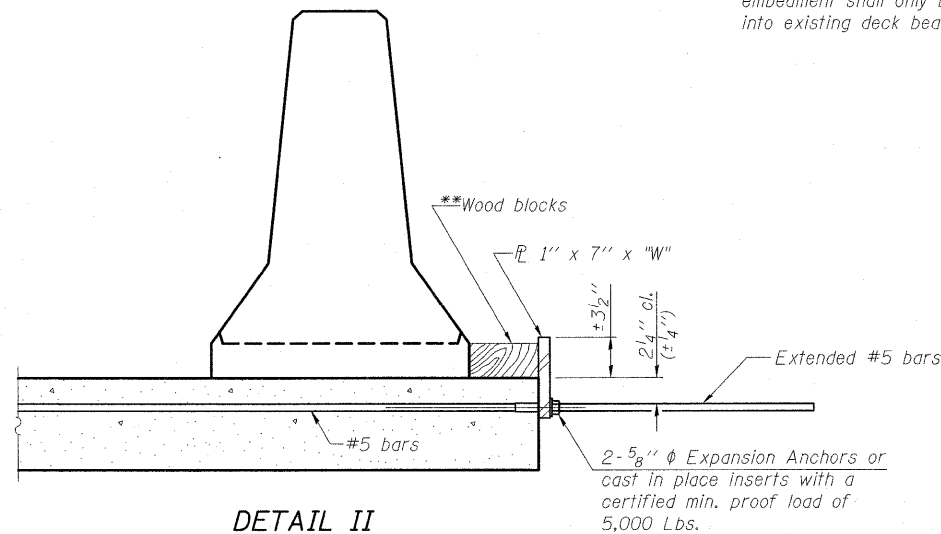
SECTIONS THRU SLAB OR DECK BEAM

*** 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.

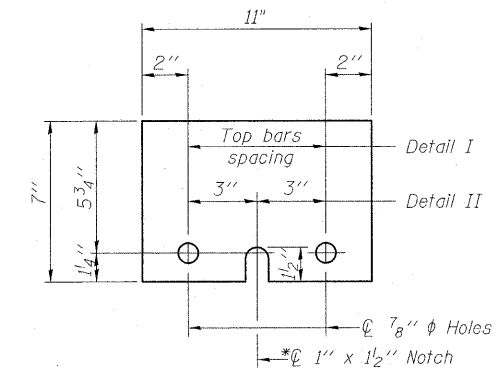


DETAIL I



DETAIL II

** 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.



STEEL RETAINER \bar{P} 1" x 7" x 11"

* Required only with Detail II

DESIGNED	
CHECKED	
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

R-27

11-1-09



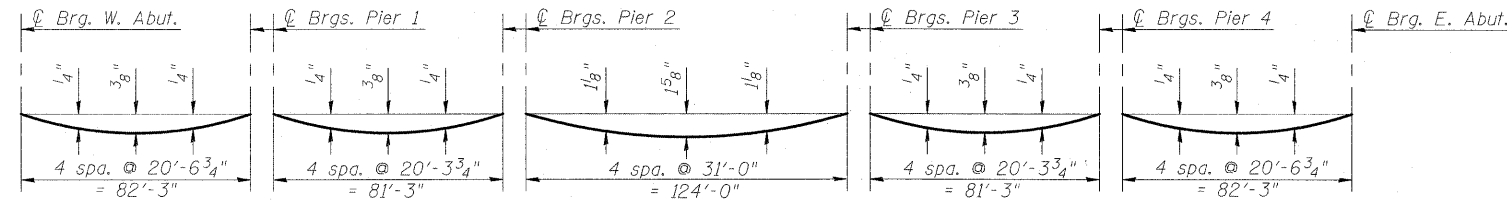
**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62062-5635
Local (618) 288-4965
Fax 618-288-4966

SHEET NO. 6 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	38
SN 025-0107 & 025-0108			CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

**TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
STRUCTURE NO.**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

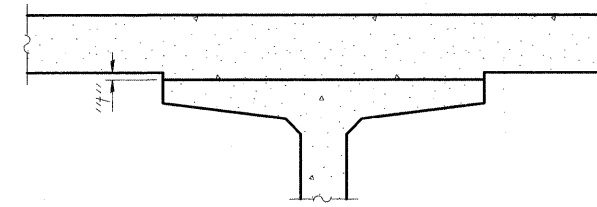


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete, excluding beams)

Note:

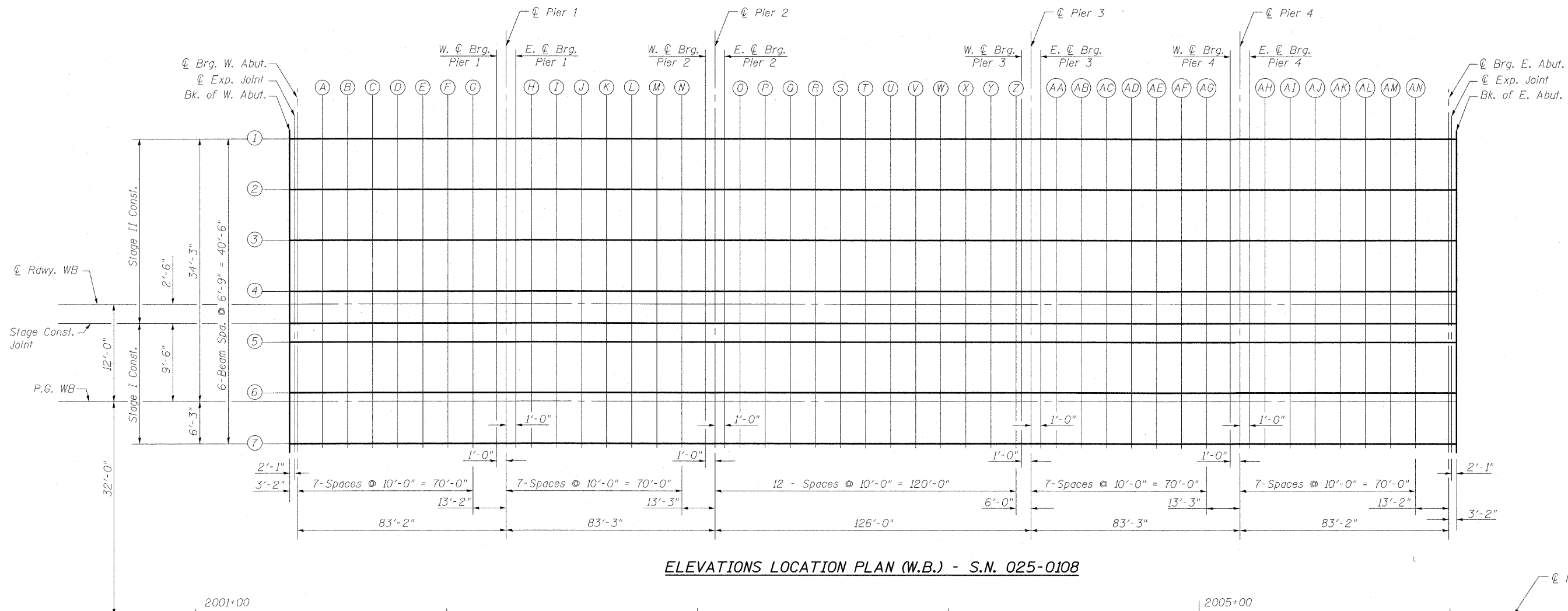
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections and grinding as shown below and on sheets 9 thru 18 of 58.



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 and on sheets 9 thru 18 of 58. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" show below and on sheets 9 thru 18 of 58, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

The slab is to be ground after curing to achieve smoothness but the slab is not to be ground to elevations below the "Theoretical Grade Elevations" shown below and on sheets 9 thru 18 of 58. For grinding the deck see Special Provisions.

FILLET HEIGHTS



ELEVATIONS LOCATION PLAN (W.B.) - S.N. 025-0108

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 025-0108**

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

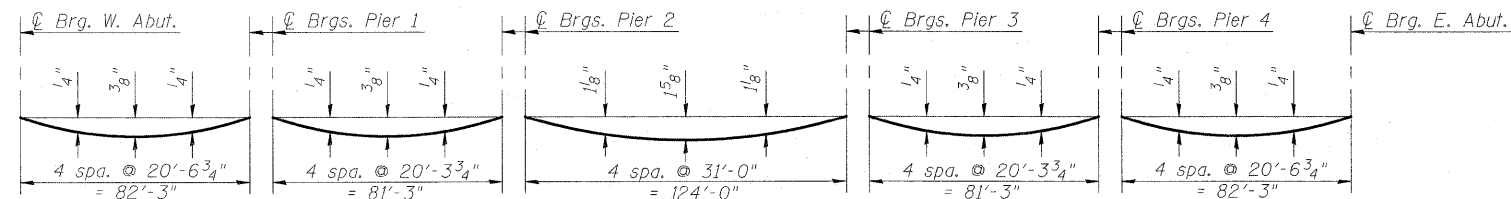


**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62062-5685
Local (618) 268-4665
Fax (618) 268-4666

SHEET NO. 7 58 SHEETS	F.A.I. RTE. 70	SECTION (25-3)B	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 39
	SN 025-0108		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

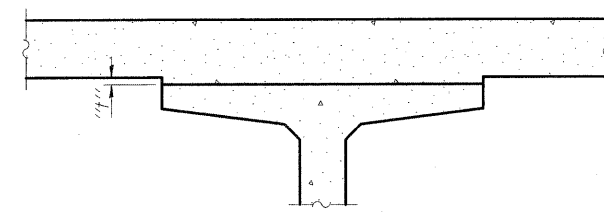


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete, excluding beams)

Note:

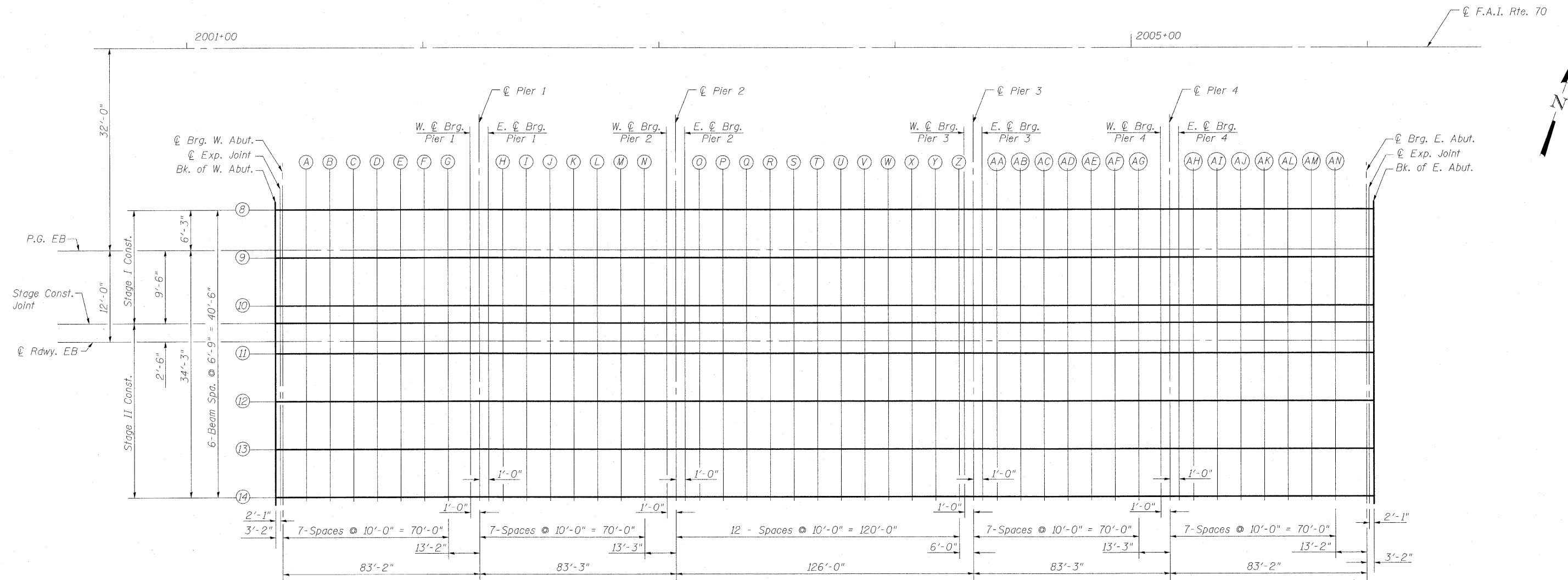
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections and grinding as shown below and on sheets 9 thru 18 of 58.



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 and on sheets 9 thru 18 of 58. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" show below and on sheets 9 thru 18 of 58, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

The slab is to be ground after curing to achieve smoothness but the slab is not to be ground to elevations below the "Theoretical Grade Elevations" shown below and on sheets 9 thru 18 of 58. For grinding the deck see Special Provisions.

FILLET HEIGHTS



ELEVATIONS LOCATION PLAN (E.B.) - S.N. 025-0107

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 025-0107**

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

8 Oak Drive
Maryville, IL 62062-5635
Local (618) 288-4955
Fax 618-288-4666

SHEET NO. 8 58 SHEETS	F.A.I. RTE. 70	SECTION (25-3)B	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 40
	SN 025-0107		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

20720 PM 3/19/2000 \0250107.dwg

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM LINE 1

Location	Station	Offset	Theoretical Grade Elevations	Theor. Grade Elev. Adj. For Dead Ld. Deflection	Theor. Grade Elev. Adj. For Dead Ld. Deflection & Grinding
Bk. W. ABUT.	2001+48.52	-34.25	527.59	527.59	527.61
CL EXP. JT.	2001+50.59	-34.25	527.60	527.60	527.62
CL BRG. W. ABUT.	2001+51.68	-34.25	527.60	527.60	527.62
A	2001+61.68	-34.25	527.65	527.66	527.68
B	2001+71.68	-34.25	527.70	527.72	527.74
C	2001+81.68	-34.25	527.75	527.78	527.80
D	2001+91.68	-34.25	527.80	527.83	527.85
E	2002+01.68	-34.25	527.85	527.88	527.90
F	2002+11.68	-34.25	527.90	527.92	527.94
G	2002+21.68	-34.25	527.95	527.96	527.98
W. CL BRG. PIER 1	2002+33.85	-34.25	528.00	528.00	528.02
CL PIER 1	2002+34.85	-34.25	528.01	528.01	528.03
E. CL BRG. PIER 1	2002+35.85	-34.25	528.01	528.01	528.03
H	2002+44.85	-34.25	528.05	528.06	528.08
I	2002+54.85	-34.25	528.09	528.10	528.12
J	2002+64.85	-34.25	528.12	528.14	528.16
K	2002+74.85	-34.25	528.15	528.18	528.20
L	2002+84.85	-34.25	528.18	528.20	528.22
M	2002+94.85	-34.25	528.21	528.23	528.25
N	2003+04.85	-34.25	528.23	528.24	528.26
W. CL BRG. PIER 2	2003+17.10	-34.25	528.26	528.26	528.28
CL PIER 2	2003+18.10	-34.25	528.26	528.26	528.28
E. CL BRG. PIER 2	2003+19.10	-34.25	528.26	528.26	528.28
O	2003+28.10	-34.25	528.27	528.30	528.32
P	2003+38.10	-34.25	528.29	528.35	528.37
Q	2003+48.10	-34.25	528.30	528.39	528.41
R	2003+58.10	-34.25	528.31	528.41	528.43
S	2003+68.10	-34.25	528.31	528.43	528.45
T	2003+78.10	-34.25	528.31	528.45	528.47
U	2003+88.10	-34.25	528.31	528.44	528.46
V	2003+98.10	-34.25	528.31	528.42	528.44
W	2004+08.10	-34.25	528.30	528.41	528.43
X	2004+18.10	-34.25	528.29	528.37	528.39
Y	2004+28.10	-34.25	528.28	528.33	528.35
Z	2004+38.10	-34.25	528.27	528.29	528.31
W. CL BRG. PIER 3	2004+43.10	-34.25	528.26	528.26	528.28
CL PIER 3	2004+44.10	-34.25	528.26	528.26	528.28
E. CL BRG. PIER 3	2004+45.10	-34.25	528.26	528.26	528.28
AA	2004+54.10	-34.25	528.24	528.25	528.27
AB	2004+64.10	-34.25	528.22	528.23	528.25
AC	2004+74.10	-34.25	528.19	528.21	528.23
AD	2004+84.10	-34.25	528.16	528.19	528.21
AE	2004+94.10	-34.25	528.13	528.15	528.17
AF	2005+04.10	-34.25	528.10	528.12	528.14
AG	2005+14.10	-34.25	528.06	528.07	528.09
W. CL BRG. PIER 4	2005+26.35	-34.25	528.01	528.01	528.03
CL PIER 4	2005+27.35	-34.25	528.01	528.01	528.03
E. CL BRG. PIER 4	2005+28.35	-34.25	528.00	528.00	528.02
AH	2005+37.35	-34.25	527.97	527.97	527.99
AI	2005+47.35	-34.25	527.92	527.94	527.96
AJ	2005+57.35	-34.25	527.88	527.90	527.92
AK	2005+67.35	-34.25	527.83	527.86	527.88
AL	2005+77.35	-34.25	527.78	527.80	527.82
AM	2005+87.35	-34.25	527.73	527.75	527.77
AN	2005+97.35	-34.25	527.69	527.68	527.71
CL BRG. E. ABUT.	2006+10.51	-34.25	527.61	527.61	527.63
CL EXP. JT.	2006+11.60	-34.25	527.61	527.61	527.63
Bk. E. ABUT.	2006+13.69	-34.25	527.60	527.60	527.62

BEAM LINE 2

Location	Station	Offset	Theoretical Grade Elevations	Theor. Grade Elev. Adj. For Dead Ld. Deflection	Theor. Grade Elev. Adj. For Dead Ld. Deflection & Grinding
Bk. W. ABUT.	2001+48.52	-27.50	527.73	527.73	527.75
CL EXP. JT.	2001+50.59	-27.50	527.74	527.74	527.76
CL BRG. W. ABUT.	2001+51.68	-27.50	527.75	527.75	527.77
A	2001+61.68	-27.50	527.80	527.80	527.82
B	2001+71.68	-27.50	527.85	527.86	527.88
C	2001+81.68	-27.50	527.90	527.92	527.94
D	2001+91.68	-27.50	527.95	527.97	527.99
E	2002+01.68	-27.50	528.00	528.02	528.04
F	2002+11.68	-27.50	528.05	528.06	528.08
G	2002+21.68	-27.50	528.09	528.10	528.12
W. CL BRG. PIER 1	2002+33.85	-27.50	528.15	528.15	528.17
CL PIER 1	2002+34.85	-27.50	528.15	528.15	528.17
E. CL BRG. PIER 1	2002+35.85	-27.50	528.15	528.15	528.17
H	2002+44.85	-27.50	528.19	528.20	528.22
I	2002+54.85	-27.50	528.23	528.24	528.26
J	2002+64.85	-27.50	528.26	528.28	528.30
K	2002+74.85	-27.50	528.29	528.32	528.34
L	2002+84.85	-27.50	528.32	528.34	528.36
M	2002+94.85	-27.50	528.35	528.37	528.39
N	2003+04.85	-27.50	528.37	528.38	528.40
W. CL BRG. PIER 2	2003+17.10	-27.50	528.40	528.40	528.42
CL PIER 2	2003+18.10	-27.50	528.40	528.40	528.42
E. CL BRG. PIER 2	2003+19.10	-27.50	528.40	528.40	528.42
O	2003+28.10	-27.50	528.41	528.45	528.47
P	2003+38.10	-27.50	528.43	528.49	528.51
Q	2003+48.10	-27.50	528.44	528.53	528.55
R	2003+58.10	-27.50	528.45	528.55	528.57
S	2003+68.10	-27.50	528.45	528.57	528.59
T	2003+78.10	-27.50	528.45	528.59	528.61
U	2003+88.10	-27.50	528.45	528.58	528.60
V	2003+98.10	-27.50	528.45	528.57	528.59
W	2004+08.10	-27.50	528.44	528.55	528.57
X	2004+18.10	-27.50	528.44	528.51	528.53
Y	2004+28.10	-27.50	528.42	528.47	528.49
Z	2004+38.10	-27.50	528.41	528.43	528.45
W. CL BRG. PIER 3	2004+43.10	-27.50	528.40	528.40	528.42
CL PIER 3	2004+44.10	-27.50	528.40	528.40	528.42
E. CL BRG. PIER 3	2004+45.10	-27.50	528.40	528.40	528.42
AA	2004+54.10	-27.50	528.38	528.39	528.41
AB	2004+64.10	-27.50	528.36	528.37	528.39
AC	2004+74.10	-27.50	528.33	528.35	528.37
AD	2004+84.10	-27.50	528.30	528.33	528.35
AE	2004+94.10	-27.50	528.27	528.29	528.31
AF	2005+04.10	-27.50	528.24	528.26	528.28
AG	2005+14.10	-27.50	528.20	528.21	528.23
W. CL BRG. PIER 4	2005+26.35	-27.50	528.15	528.15	528.17
CL PIER 4	2005+27.35	-27.50	528.15	528.15	528.17
E. CL BRG. PIER 4	2005+28.35	-27.50	528.15	528.15	528.17
AH	2005+37.35	-27.50	528.11	528.12	528.14
AI	2005+47.35	-27.50	528.06	528.08	528.10
AJ	2005+57.35	-27.50	528.02	528.04	528.06
AK	2005+67.35	-27.50	527.97	528.00	528.02
AL	2005+77.35	-27.50	527.92	527.95	527.97
AM	2005+87.35	-27.50	527.87	527.89	527.91
AN	2005+97.35	-27.50	527.82	527.83	527.85
CL BRG. E. ABUT.	2006+10.51	-27.50	527.76	527.76	527.78
CL EXP. JT.	2006+11.60	-27.50	527.75	527.75	527.77
Bk. E. ABUT.	2006+13.69	-27.50	527.74	527.74	527.76

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 025-0108



BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

3 Oak Drive
Mayville, IL 62962-9635
Local (618) 298-4665
Fax 618-298-4666

SHEET NO. 9 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	41
	SN 025-0108			CONTRACT NO. 74296	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM LINE 3

BEAM LINE 4

Location	Station	Offset	Theoretical Grade Elevations	Theor. Grade Elev. Adj. For Dead Ld. Deflection	Theor. Grade Elev. Adj. For Dead Ld. Deflection & Grinding
Bk. W. ABUT.	2001+48.52	-20.75	527.85	527.85	527.87
CL EXP. JT.	2001+50.59	-20.75	527.86	527.86	527.88
CL BRG. W. ABUT.	2001+51.68	-20.75	527.87	527.87	527.89
A	2001+61.68	-20.75	527.92	527.93	527.95
B	2001+71.68	-20.75	527.97	527.99	528.01
C	2001+81.68	-20.75	528.02	528.04	528.06
D	2001+91.68	-20.75	528.07	528.10	528.12
E	2002+01.68	-20.75	528.12	528.14	528.16
F	2002+11.68	-20.75	528.17	528.19	528.21
G	2002+21.68	-20.75	528.22	528.23	528.25
W. CL BRG. PIER 1	2002+33.85	-20.75	528.27	528.27	528.29
CL PIER 1	2002+34.85	-20.75	528.27	528.27	528.29
E. CL BRG. PIER 1	2002+35.85	-20.75	528.28	528.28	528.30
H	2002+44.85	-20.75	528.31	528.32	528.34
I	2002+54.85	-20.75	528.35	528.37	528.39
J	2002+64.85	-20.75	528.39	528.41	528.43
K	2002+74.85	-20.75	528.42	528.44	528.46
L	2002+84.85	-20.75	528.45	528.47	528.49
M	2002+94.85	-20.75	528.47	528.49	528.51
N	2003+04.85	-20.75	528.50	528.51	528.53
W. CL BRG. PIER 2	2003+17.10	-20.75	528.52	528.52	528.54
CL PIER 2	2003+18.10	-20.75	528.52	528.52	528.54
E. CL BRG. PIER 2	2003+19.10	-20.75	528.52	528.52	528.54
O	2003+28.10	-20.75	528.54	528.57	528.59
P	2003+38.10	-20.75	528.55	528.61	528.63
Q	2003+48.10	-20.75	528.56	528.65	528.67
R	2003+58.10	-20.75	528.57	528.68	528.70
S	2003+68.10	-20.75	528.58	528.70	528.72
T	2003+78.10	-20.75	528.58	528.71	528.73
U	2003+88.10	-20.75	528.58	528.71	528.73
V	2003+98.10	-20.75	528.57	528.69	528.71
W	2004+08.10	-20.75	528.57	528.67	528.69
X	2004+18.10	-20.75	528.56	528.64	528.66
Y	2004+28.10	-20.75	528.55	528.60	528.62
Z	2004+38.10	-20.75	528.53	528.55	528.57
W. CL BRG. PIER 3	2004+43.10	-20.75	528.52	528.52	528.54
CL PIER 3	2004+44.10	-20.75	528.52	528.52	528.54
E. CL BRG. PIER 3	2004+45.10	-20.75	528.52	528.52	528.54
AA	2004+54.10	-20.75	528.50	528.51	528.53
AB	2004+64.10	-20.75	528.48	528.50	528.52
AC	2004+74.10	-20.75	528.46	528.48	528.50
AD	2004+84.10	-20.75	528.43	528.45	528.47
AE	2004+94.10	-20.75	528.40	528.42	528.44
AF	2005+04.10	-20.75	528.36	528.38	528.40
AG	2005+14.10	-20.75	528.33	528.34	528.36
W. CL BRG. PIER 4	2005+26.35	-20.75	528.28	528.28	528.30
CL PIER 4	2005+27.35	-20.75	528.27	528.27	528.29
E. CL BRG. PIER 4	2005+28.35	-20.75	528.27	528.27	528.29
AH	2005+37.35	-20.75	528.23	528.24	528.26
AI	2005+47.35	-20.75	528.18	528.20	528.22
AJ	2005+57.35	-20.75	528.15	528.17	528.19
AK	2005+67.35	-20.75	528.10	528.12	528.14
AL	2005+77.35	-20.75	528.05	528.07	528.09
AM	2005+87.35	-20.75	528.00	528.01	528.03
AN	2005+97.35	-20.75	527.95	527.96	527.98
CL BRG. E. ABUT.	2006+10.51	-20.75	527.88	527.88	527.90
CL EXP. JT.	2006+11.60	-20.75	527.87	527.87	527.89
BK. E. ABUT.	2006+13.69	-20.75	527.86	527.86	527.88

Location	Station	Offset	Theoretical Grade Elevations	Theor. Grade Elev. Adj. For Dead Ld. Deflection	Theor. Grade Elev. Adj. For Dead Ld. Deflection & Grinding
Bk. W. ABUT.	2001+48.52	-14.00	527.96	527.96	527.98
CL EXP. JT.	2001+50.59	-14.00	527.97	527.97	527.99
CL BRG. W. ABUT.	2001+51.68	-14.00	527.97	527.97	527.99
A	2001+61.68	-14.00	528.02	528.03	528.05
B	2001+71.68	-14.00	528.07	528.09	528.11
C	2001+81.68	-14.00	528.12	528.15	528.17
D	2001+91.68	-14.00	528.17	528.20	528.22
E	2002+01.68	-14.00	528.22	528.25	528.27
F	2002+11.68	-14.00	528.27	528.29	528.31
G	2002+21.68	-14.00	528.32	528.33	528.35
W. CL BRG. PIER 1	2002+33.85	-14.00	528.37	528.37	528.39
CL PIER 1	2002+34.85	-14.00	528.38	528.38	528.40
E. CL BRG. PIER 1	2002+35.85	-14.00	528.38	528.38	528.40
H	2002+44.85	-14.00	528.42	528.43	528.45
I	2002+54.85	-14.00	528.46	528.47	528.49
J	2002+64.85	-14.00	528.49	528.51	528.53
K	2002+74.85	-14.00	528.52	528.55	528.57
L	2002+84.85	-14.00	528.55	528.57	528.59
M	2002+94.85	-14.00	528.58	528.60	528.62
N	2003+04.85	-14.00	528.60	528.61	528.63
W. CL BRG. PIER 2	2003+17.10	-14.00	528.63	528.63	528.65
CL PIER 2	2003+18.10	-14.00	528.63	528.63	528.65
E. CL BRG. PIER 2	2003+19.10	-14.00	528.63	528.63	528.65
O	2003+28.10	-14.00	528.64	528.67	528.69
P	2003+38.10	-14.00	528.66	528.72	528.74
Q	2003+48.10	-14.00	528.67	528.76	528.78
R	2003+58.10	-14.00	528.68	528.78	528.80
S	2003+68.10	-14.00	528.68	528.80	528.82
T	2003+78.10	-14.00	528.68	528.82	528.84
U	2003+88.10	-14.00	528.68	528.81	528.83
V	2003+98.10	-14.00	528.68	528.79	528.81
W	2004+08.10	-14.00	528.67	528.77	528.79
X	2004+18.10	-14.00	528.66	528.74	528.76
Y	2004+28.10	-14.00	528.65	528.70	528.72
Z	2004+38.10	-14.00	528.64	528.66	528.68
W. CL BRG. PIER 3	2004+43.10	-14.00	528.63	528.63	528.65
CL PIER 3	2004+44.10	-14.00	528.63	528.63	528.65
E. CL BRG. PIER 3	2004+45.10	-14.00	528.63	528.63	528.65
AA	2004+54.10	-14.00	528.61	528.62	528.64
AB	2004+64.10	-14.00	528.59	528.60	528.62
AC	2004+74.10	-14.00	528.56	528.58	528.60
AD	2004+84.10	-14.00	528.53	528.56	528.58
AE	2004+94.10	-14.00	528.50	528.52	528.54
AF	2005+04.10	-14.00	528.47	528.49	528.51
AG	2005+14.10	-14.00	528.43	528.44	528.46
W. CL BRG. PIER 4	2005+26.35	-14.00	528.38	528.38	528.40
CL PIER 4	2005+27.35	-14.00	528.38	528.38	528.40
E. CL BRG. PIER 4	2005+28.35	-14.00	528.37	528.37	528.39
AH	2005+37.35	-14.00	528.34	528.34	528.36
AI	2005+47.35	-14.00	528.29	528.31	528.33
AJ	2005+57.35	-14.00	528.25	528.27	528.29
AK	2005+67.35	-14.00	528.20	528.23	528.25
AL	2005+77.35	-14.00	528.15	528.17	528.19
AM	2005+87.35	-14.00	528.10	528.12	528.14
AN	2005+97.35	-14.00	528.05	528.06	528.08
CL BRG. E. ABUT.	2006+10.51	-14.00	527.98	527.98	528.00
CL EXP. JT.	2006+11.60	-14.00	527.98	527.98	528.00
BK. E. ABUT.	2006+13.69	-14.00	527.97	527.97	527.99

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 025-0108

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.



**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

8 Oak Drive
Maryville, IL 62462-5685
Local (618) 288-4665
Fax 618-288-4666

SHEET NO. 10 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	42
	SN 025-0108			CONTRACT NO. 74296	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

ROADWAY (W.B.)

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION JOINT (W.B.)

Table with 6 columns: Location, Station, Offset, Theoretical Grade Elevations, Theor. Grade Elev. Adj. For Dead Ld. Deflection, Theor. Grade Elev. Adj. For Dead Ld. Deflection & Grinding. Rows include Bk. W. ABUT., CL EXP. JT., CL BRG. W. ABUT., A-G, W. CL BRG. PIER 1, CL PIER 1, E. CL BRG. PIER 1, H-N, W. CL BRG. PIER 2, CL PIER 2, E. CL BRG. PIER 2, O-Z, W. CL BRG. PIER 3, CL PIER 3, E. CL BRG. PIER 3, AA-AG, W. CL BRG. PIER 4, CL PIER 4, E. CL BRG. PIER 4, AH-AN, CL BRG. E. ABUT., CL EXP. JT., BK. E. ABUT.

Table with 6 columns: Location, Station, Offset, Theoretical Grade Elevations, Theor. Grade Elev. Adj. For Dead Ld. Deflection, Theor. Grade Elev. Adj. For Dead Ld. Deflection & Grinding. Rows include Bk. W. ABUT., CL EXP. JT., CL BRG. W. ABUT., A-G, W. CL BRG. PIER 1, CL PIER 1, E. CL BRG. PIER 1, H-N, W. CL BRG. PIER 2, CL PIER 2, E. CL BRG. PIER 2, O-Z, W. CL BRG. PIER 3, CL PIER 3, E. CL BRG. PIER 3, AA-AG, W. CL BRG. PIER 4, CL PIER 4, E. CL BRG. PIER 4, AH-AN, CL BRG. E. ABUT., CL EXP. JT., BK. E. ABUT.

DESIGNED B.B.
CHECKED A.C.S.
DRAWN W.J.S.
CHECKED C.J.F. & B.B.

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 025-0108



BERNARDIN LOCHMUELLER & ASSOCIATES, INC.

3 Oak Drive
Marysville, IL 62442-6655
Local (618) 288-4665
Fax 618-288-4666

Table with project details: SHEET NO. 11, 58 SHEETS, F.A.I. RTE. 70, SECTION (25-3)B, COUNTY EFFINGHAM, TOTAL SHEETS 1416, SHEET NO. 43, SN 025-0108, CONTRACT NO. 74296, FED. ROAD DIST. NO. 7 ILLINOIS, FED. AID PROJECT 70

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM LINE 5

BEAM LINE 6

Location	Station	Offset	Theoretical Grade Elevations	Theor. Grade Elev. Adj. For Dead Ld. Deflection	Theor. Grade Elev. Adj. For Dead Ld. Deflection & Grinding
Bk. W. ABUT.	2001+48.52	-7.25	527.92	527.92	527.94
CL EXP. JT.	2001+50.59	-7.25	527.93	527.93	527.95
CL BRG. W. ABUT.	2001+51.68	-7.25	527.93	527.93	527.95
A	2001+61.68	-7.25	527.98	527.99	528.01
B	2001+71.68	-7.25	528.03	528.05	528.07
C	2001+81.68	-7.25	528.08	528.10	528.12
D	2001+91.68	-7.25	528.13	528.16	528.18
E	2002+01.68	-7.25	528.18	528.21	528.23
F	2002+11.68	-7.25	528.23	528.25	528.27
G	2002+21.68	-7.25	528.28	528.29	528.31
W. CL BRG. PIER 1	2002+33.85	-7.25	528.33	528.33	528.35
CL PIER 1	2002+34.85	-7.25	528.34	528.34	528.36
E. CL BRG. PIER 1	2002+35.85	-7.25	528.34	528.34	528.36
H	2002+44.85	-7.25	528.38	528.38	528.40
I	2002+54.85	-7.25	528.41	528.43	528.45
J	2002+64.85	-7.25	528.45	528.47	528.49
K	2002+74.85	-7.25	528.48	528.50	528.52
L	2002+84.85	-7.25	528.51	528.53	528.55
M	2002+94.85	-7.25	528.54	528.55	528.57
N	2003+04.85	-7.25	528.56	528.57	528.59
W. CL BRG. PIER 2	2003+17.10	-7.25	528.58	528.58	528.60
CL PIER 2	2003+18.10	-7.25	528.58	528.58	528.60
E. CL BRG. PIER 2	2003+19.10	-7.25	528.59	528.59	528.61
O	2003+28.10	-7.25	528.60	528.63	528.65
P	2003+38.10	-7.25	528.61	528.68	528.70
Q	2003+48.10	-7.25	528.63	528.72	528.74
R	2003+58.10	-7.25	528.63	528.74	528.76
S	2003+68.10	-7.25	528.64	528.76	528.78
T	2003+78.10	-7.25	528.64	528.77	528.79
U	2003+88.10	-7.25	528.64	528.77	528.79
V	2003+98.10	-7.25	528.64	528.75	528.77
W	2004+08.10	-7.25	528.63	528.73	528.75
X	2004+18.10	-7.25	528.62	528.70	528.72
Y	2004+28.10	-7.25	528.61	528.66	528.68
Z	2004+38.10	-7.25	528.59	528.61	528.63
W. CL BRG. PIER 3	2004+43.10	-7.25	528.59	528.59	528.61
CL PIER 3	2004+44.10	-7.25	528.58	528.58	528.60
E. CL BRG. PIER 3	2004+45.10	-7.25	528.58	528.58	528.60
AA	2004+54.10	-7.25	528.57	528.57	528.59
AB	2004+64.10	-7.25	528.54	528.56	528.58
AC	2004+74.10	-7.25	528.52	528.54	528.56
AD	2004+84.10	-7.25	528.49	528.51	528.53
AE	2004+94.10	-7.25	528.46	528.48	528.50
AF	2005+04.10	-7.25	528.43	528.44	528.46
AG	2005+14.10	-7.25	528.39	528.40	528.42
W. CL BRG. PIER 4	2005+26.35	-7.25	528.34	528.34	528.36
CL PIER 4	2005+27.35	-7.25	528.34	528.34	528.36
E. CL BRG. PIER 4	2005+28.35	-7.25	528.33	528.33	528.35
AH	2005+37.35	-7.25	528.29	528.30	528.32
AI	2005+47.35	-7.25	528.25	528.26	528.28
AJ	2005+57.35	-7.25	528.21	528.23	528.25
AK	2005+67.35	-7.25	528.16	528.18	528.20
AL	2005+77.35	-7.25	528.11	528.13	528.15
AM	2005+87.35	-7.25	528.06	528.08	528.10
AN	2005+97.35	-7.25	528.01	528.02	528.04
CL BRG. E. ABUT.	2006+10.51	-7.25	527.94	527.94	527.96
CL EXP. JT.	2006+11.60	-7.25	527.94	527.94	527.96
Bk. E. ABUT.	2006+13.69	-7.25	527.93	527.93	527.95

Location	Station	Offset	Theoretical Grade Elevations	Theor. Grade Elev. Adj. For Dead Ld. Deflection	Theor. Grade Elev. Adj. For Dead Ld. Deflection & Grinding
Bk. W. ABUT.	2001+48.52	-0.50	527.81	527.81	527.83
CL EXP. JT.	2001+50.59	-0.50	527.82	527.82	527.84
CL BRG. W. ABUT.	2001+51.68	-0.50	527.83	527.83	527.85
A	2001+61.68	-0.50	527.88	527.89	527.91
B	2001+71.68	-0.50	527.93	527.94	527.96
C	2001+81.68	-0.50	527.98	528.00	528.02
D	2001+91.68	-0.50	528.03	528.05	528.07
E	2002+01.68	-0.50	528.08	528.10	528.12
F	2002+11.68	-0.50	528.13	528.15	528.17
G	2002+21.68	-0.50	528.17	528.18	528.20
W. CL BRG. PIER 1	2002+33.85	-0.50	528.23	528.23	528.25
CL PIER 1	2002+34.85	-0.50	528.23	528.23	528.25
E. CL BRG. PIER 1	2002+35.85	-0.50	528.23	528.23	528.25
H	2002+44.85	-0.50	528.27	528.28	528.30
I	2002+54.85	-0.50	528.31	528.32	528.34
J	2002+64.85	-0.50	528.34	528.36	528.38
K	2002+74.85	-0.50	528.37	528.40	528.42
L	2002+84.85	-0.50	528.40	528.43	528.45
M	2002+94.85	-0.50	528.43	528.45	528.47
N	2003+04.85	-0.50	528.45	528.46	528.48
W. CL BRG. PIER 2	2003+17.10	-0.50	528.48	528.48	528.50
CL PIER 2	2003+18.10	-0.50	528.48	528.48	528.50
E. CL BRG. PIER 2	2003+19.10	-0.50	528.48	528.48	528.50
O	2003+28.10	-0.50	528.50	528.53	528.55
P	2003+38.10	-0.50	528.51	528.57	528.59
Q	2003+48.10	-0.50	528.52	528.61	528.63
R	2003+58.10	-0.50	528.53	528.63	528.65
S	2003+68.10	-0.50	528.53	528.65	528.67
T	2003+78.10	-0.50	528.54	528.67	528.69
U	2003+88.10	-0.50	528.54	528.66	528.68
V	2003+98.10	-0.50	528.53	528.65	528.67
W	2004+08.10	-0.50	528.53	528.63	528.65
X	2004+18.10	-0.50	528.52	528.59	528.61
Y	2004+28.10	-0.50	528.50	528.55	528.57
Z	2004+38.10	-0.50	528.49	528.51	528.53
W. CL BRG. PIER 3	2004+43.10	-0.50	528.48	528.48	528.50
CL PIER 3	2004+44.10	-0.50	528.48	528.48	528.50
E. CL BRG. PIER 3	2004+45.10	-0.50	528.48	528.48	528.50
AA	2004+54.10	-0.50	528.46	528.47	528.49
AB	2004+64.10	-0.50	528.44	528.45	528.47
AC	2004+74.10	-0.50	528.41	528.43	528.45
AD	2004+84.10	-0.50	528.38	528.41	528.43
AE	2004+94.10	-0.50	528.35	528.38	528.40
AF	2005+04.10	-0.50	528.32	528.34	528.36
AG	2005+14.10	-0.50	528.28	528.29	528.31
W. CL BRG. PIER 4	2005+26.35	-0.50	528.23	528.23	528.25
CL PIER 4	2005+27.35	-0.50	528.23	528.23	528.25
E. CL BRG. PIER 4	2005+28.35	-0.50	528.23	528.23	528.25
AH	2005+37.35	-0.50	528.19	528.20	528.22
AI	2005+47.35	-0.50	528.14	528.16	528.18
AJ	2005+57.35	-0.50	528.10	528.12	528.14
AK	2005+67.35	-0.50	528.05	528.08	528.10
AL	2005+77.35	-0.50	528.00	528.03	528.05
AM	2005+87.35	-0.50	527.95	527.97	527.99
AN	2005+97.35	-0.50	527.90	527.91	527.93
CL BRG. E. ABUT.	2006+10.51	-0.50	527.84	527.84	527.86
CL EXP. JT.	2006+11.60	-0.50	527.83	527.83	527.85
Bk. E. ABUT.	2006+13.69	-0.50	527.82	527.82	527.84

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 025-0108

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.



BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

3 Oak Drive
Maryville, IL 62062-5635
Local (618) 288-4065
Fax 618-288-4066

SHEET NO. 12 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	44
	SN 025-0108			CONTRACT NO. 74296	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

P.G. (W.B.)

BEAM LINE 7

Location	Station	Offset	Theoretical Grade Elevations	Theor. Grade Elev. Adj. For Dead Ld. Deflection	Theor. Grade Elev. Adj. For Dead Ld. Deflection & Grinding
Bk. W. ABUT.	2001+48.52	0.00	527.80	527.80	527.82
CL EXP. JT.	2001+50.59	0.00	527.81	527.81	527.83
CL BRG. W. ABUT.	2001+51.68	0.00	527.82	527.82	527.84
A	2001+61.68	0.00	527.87	527.88	527.90
B	2001+71.68	0.00	527.92	527.94	527.96
C	2001+81.68	0.00	527.97	527.99	528.01
D	2001+91.68	0.00	528.02	528.04	528.06
E	2002+01.68	0.00	528.07	528.09	528.11
F	2002+11.68	0.00	528.12	528.14	528.16
G	2002+21.68	0.00	528.16	528.18	528.20
W. CL BRG. PIER 1	2002+33.85	0.00	528.22	528.22	528.24
CL PIER 1	2002+34.85	0.00	528.22	528.22	528.24
E. CL BRG. PIER 1	2002+35.85	0.00	528.23	528.23	528.25
H	2002+44.85	0.00	528.26	528.27	528.29
I	2002+54.85	0.00	528.30	528.32	528.34
J	2002+64.85	0.00	528.33	528.36	528.38
K	2002+74.85	0.00	528.37	528.39	528.41
L	2002+84.85	0.00	528.40	528.42	528.44
M	2002+94.85	0.00	528.42	528.44	528.46
N	2003+04.85	0.00	528.44	528.46	528.48
W. CL BRG. PIER 2	2003+17.10	0.00	528.47	528.47	528.49
CL PIER 2	2003+18.10	0.00	528.47	528.47	528.49
E. CL BRG. PIER 2	2003+19.10	0.00	528.47	528.47	528.49
O	2003+28.10	0.00	528.49	528.52	528.54
P	2003+38.10	0.00	528.50	528.56	528.58
Q	2003+48.10	0.00	528.51	528.60	528.62
R	2003+58.10	0.00	528.52	528.63	528.65
S	2003+68.10	0.00	528.53	528.64	528.66
T	2003+78.10	0.00	528.53	528.66	528.68
U	2003+88.10	0.00	528.53	528.65	528.67
V	2003+98.10	0.00	528.52	528.64	528.66
W	2004+08.10	0.00	528.52	528.62	528.64
X	2004+18.10	0.00	528.51	528.59	528.61
Y	2004+28.10	0.00	528.50	528.54	528.56
Z	2004+38.10	0.00	528.48	528.50	528.52
W. CL BRG. PIER 3	2004+43.10	0.00	528.47	528.47	528.49
CL PIER 3	2004+44.10	0.00	528.47	528.47	528.49
E. CL BRG. PIER 3	2004+45.10	0.00	528.47	528.47	528.49
AA	2004+54.10	0.00	528.45	528.46	528.48
AB	2004+64.10	0.00	528.43	528.45	528.47
AC	2004+74.10	0.00	528.40	528.43	528.45
AD	2004+84.10	0.00	528.38	528.40	528.42
AE	2004+94.10	0.00	528.35	528.37	528.39
AF	2005+04.10	0.00	528.31	528.33	528.35
AG	2005+14.10	0.00	528.28	528.29	528.31
W. CL BRG. PIER 4	2005+26.35	0.00	528.23	528.23	528.25
CL PIER 4	2005+27.35	0.00	528.22	528.22	528.24
E. CL BRG. PIER 4	2005+28.35	0.00	528.22	528.22	528.24
AH	2005+37.35	0.00	528.18	528.19	528.21
AI	2005+47.35	0.00	528.13	528.15	528.17
AJ	2005+57.35	0.00	528.09	528.12	528.14
AK	2005+67.35	0.00	528.04	528.07	528.09
AL	2005+77.35	0.00	527.99	528.02	528.04
AM	2005+87.35	0.00	527.94	527.96	527.98
AN	2005+97.35	0.00	527.89	527.91	527.93
CL BRG. E. ABUT.	2006+10.51	0.00	527.83	527.83	527.85
CL EXP. JT.	2006+11.60	0.00	527.82	527.82	527.84
BK. E. ABUT.	2006+13.69	0.00	527.81	527.81	527.83

Location	Station	Offset	Theoretical Grade Elevations	Theor. Grade Elev. Adj. For Dead Ld. Deflection	Theor. Grade Elev. Adj. For Dead Ld. Deflection & Grinding
Bk. W. ABUT.	2001+48.52	6.25	527.67	527.67	527.69
CL EXP. JT.	2001+50.59	6.25	527.68	527.68	527.70
CL BRG. W. ABUT.	2001+51.68	6.25	527.69	527.69	527.71
A	2001+61.68	6.25	527.74	527.75	527.77
B	2001+71.68	6.25	527.79	527.81	527.83
C	2001+81.68	6.25	527.84	527.86	527.88
D	2001+91.68	6.25	527.89	527.91	527.93
E	2002+01.68	6.25	527.94	527.96	527.98
F	2002+11.68	6.25	527.99	528.01	528.03
G	2002+21.68	6.25	528.03	528.05	528.07
W. CL BRG. PIER 1	2002+33.85	6.25	528.09	528.09	528.11
CL PIER 1	2002+34.85	6.25	528.09	528.09	528.11
E. CL BRG. PIER 1	2002+35.85	6.25	528.10	528.10	528.12
H	2002+44.85	6.25	528.13	528.14	528.16
I	2002+54.85	6.25	528.17	528.19	528.21
J	2002+64.85	6.25	528.20	528.23	528.25
K	2002+74.85	6.25	528.24	528.26	528.28
L	2002+84.85	6.25	528.27	528.29	528.31
M	2002+94.85	6.25	528.29	528.31	528.33
N	2003+04.85	6.25	528.31	528.33	528.35
W. CL BRG. PIER 2	2003+17.10	6.25	528.34	528.34	528.36
CL PIER 2	2003+18.10	6.25	528.34	528.34	528.36
E. CL BRG. PIER 2	2003+19.10	6.25	528.34	528.34	528.36
O	2003+28.10	6.25	528.36	528.39	528.41
P	2003+38.10	6.25	528.37	528.43	528.45
Q	2003+48.10	6.25	528.38	528.47	528.49
R	2003+58.10	6.25	528.39	528.50	528.52
S	2003+68.10	6.25	528.40	528.51	528.53
T	2003+78.10	6.25	528.40	528.53	528.55
U	2003+88.10	6.25	528.40	528.52	528.54
V	2003+98.10	6.25	528.39	528.51	528.53
W	2004+08.10	6.25	528.39	528.49	528.51
X	2004+18.10	6.25	528.38	528.46	528.48
Y	2004+28.10	6.25	528.37	528.41	528.43
Z	2004+38.10	6.25	528.35	528.37	528.39
W. CL BRG. PIER 3	2004+43.10	6.25	528.34	528.34	528.36
CL PIER 3	2004+44.10	6.25	528.34	528.34	528.36
E. CL BRG. PIER 3	2004+45.10	6.25	528.34	528.34	528.36
AA	2004+54.10	6.25	528.32	528.33	528.35
AB	2004+64.10	6.25	528.30	528.32	528.34
AC	2004+74.10	6.25	528.27	528.29	528.31
AD	2004+84.10	6.25	528.25	528.27	528.29
AE	2004+94.10	6.25	528.22	528.24	528.26
AF	2005+04.10	6.25	528.18	528.20	528.22
AG	2005+14.10	6.25	528.15	528.16	528.18
W. CL BRG. PIER 4	2005+26.35	6.25	528.10	528.10	528.12
CL PIER 4	2005+27.35	6.25	528.09	528.09	528.11
E. CL BRG. PIER 4	2005+28.35	6.25	528.09	528.09	528.11
AH	2005+37.35	6.25	528.05	528.06	528.08
AI	2005+47.35	6.25	528.00	528.02	528.04
AJ	2005+57.35	6.25	527.96	527.99	528.01
AK	2005+67.35	6.25	527.91	527.94	527.96
AL	2005+77.35	6.25	527.86	527.89	527.91
AM	2005+87.35	6.25	527.81	527.83	527.85
AN	2005+97.35	6.25	527.76	527.78	527.80
CL BRG. E. ABUT.	2006+10.51	6.25	527.70	527.70	527.72
CL EXP. JT.	2006+11.60	6.25	527.69	527.69	527.71
BK. E. ABUT.	2006+13.69	6.25	527.68	527.68	527.70

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 025-0108

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.



**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62062-5655
Local (618) 398-4655
Fax (618) 398-4696

SHEET NO. 13 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	45
SN 025-0108			CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM LINE 8

P.G. (E.B.)

Location	Station	Offset	Theoretical Grade Elevations	Theor. Grade Elev. Adj. For Dead Ld. Deflection	Theor. Grade Elev. Adj. For Dead Ld. Deflection & Grinding
Bk. W. ABUT.	2001+48.52	-6.25	527.67	527.67	527.69
CL EXP. JT.	2001+50.59	-6.25	527.68	527.68	527.70
CL BRG. W. ABUT.	2001+51.68	-6.25	527.69	527.69	527.71
A	2001+61.68	-6.25	527.74	527.75	527.77
B	2001+71.68	-6.25	527.79	527.81	527.83
C	2001+81.68	-6.25	527.84	527.86	527.88
D	2001+91.68	-6.25	527.89	527.91	527.93
E	2002+01.68	-6.25	527.94	527.96	527.98
F	2002+11.68	-6.25	527.99	528.01	528.03
G	2002+21.68	-6.25	528.03	528.05	528.07
W. CL BRG. PIER 1	2002+33.85	-6.25	528.09	528.09	528.11
CL PIER 1	2002+34.85	-6.25	528.09	528.09	528.11
E. CL BRG. PIER 1	2002+35.85	-6.25	528.10	528.10	528.12
H	2002+44.85	-6.25	528.13	528.14	528.16
I	2002+54.85	-6.25	528.17	528.19	528.21
J	2002+64.85	-6.25	528.20	528.23	528.25
K	2002+74.85	-6.25	528.24	528.26	528.28
L	2002+84.85	-6.25	528.27	528.29	528.31
M	2002+94.85	-6.25	528.29	528.31	528.33
N	2003+04.85	-6.25	528.31	528.33	528.35
W. CL BRG. PIER 2	2003+17.10	-6.25	528.34	528.34	528.36
CL PIER 2	2003+18.10	-6.25	528.34	528.34	528.36
E. CL BRG. PIER 2	2003+19.10	-6.25	528.34	528.34	528.36
O	2003+28.10	-6.25	528.36	528.39	528.41
P	2003+38.10	-6.25	528.37	528.43	528.45
Q	2003+48.10	-6.25	528.38	528.47	528.49
R	2003+58.10	-6.25	528.39	528.50	528.52
S	2003+68.10	-6.25	528.40	528.51	528.53
T	2003+78.10	-6.25	528.40	528.53	528.55
U	2003+88.10	-6.25	528.40	528.52	528.54
V	2003+98.10	-6.25	528.39	528.51	528.53
W	2004+08.10	-6.25	528.39	528.49	528.51
X	2004+18.10	-6.25	528.38	528.46	528.48
Y	2004+28.10	-6.25	528.37	528.41	528.43
Z	2004+38.10	-6.25	528.35	528.37	528.39
W. CL BRG. PIER 3	2004+43.10	-6.25	528.34	528.34	528.36
CL PIER 3	2004+44.10	-6.25	528.34	528.34	528.36
E. CL BRG. PIER 3	2004+45.10	-6.25	528.34	528.34	528.36
AA	2004+54.10	-6.25	528.32	528.33	528.35
AB	2004+64.10	-6.25	528.30	528.32	528.34
AC	2004+74.10	-6.25	528.27	528.29	528.31
AD	2004+84.10	-6.25	528.25	528.27	528.29
AE	2004+94.10	-6.25	528.22	528.24	528.26
AF	2005+04.10	-6.25	528.18	528.20	528.22
AG	2005+14.10	-6.25	528.15	528.16	528.18
W. CL BRG. PIER 4	2005+26.35	-6.25	528.10	528.10	528.12
CL PIER 4	2005+27.35	-6.25	528.09	528.09	528.11
E. CL BRG. PIER 4	2005+28.35	-6.25	528.09	528.09	528.11
AH	2005+37.35	-6.25	528.05	528.06	528.08
AI	2005+47.35	-6.25	528.00	528.02	528.04
AJ	2005+57.35	-6.25	527.96	527.99	528.01
AK	2005+67.35	-6.25	527.91	527.94	527.96
AL	2005+77.35	-6.25	527.86	527.89	527.91
AM	2005+87.35	-6.25	527.81	527.83	527.85
AN	2005+97.35	-6.25	527.76	527.78	527.80
CL BRG. E. ABUT.	2006+10.51	-6.25	527.70	527.70	527.72
CL EXP. JT.	2006+11.60	-6.25	527.69	527.69	527.71
Bk. E. ABUT.	2006+13.69	-6.25	527.68	527.68	527.70

Location	Station	Offset	Theoretical Grade Elevations	Theor. Grade Elev. Adj. For Dead Ld. Deflection	Theor. Grade Elev. Adj. For Dead Ld. Deflection & Grinding
Bk. W. ABUT.	2001+48.52	0.00	527.80	527.80	527.82
CL EXP. JT.	2001+50.59	0.00	527.81	527.81	527.83
CL BRG. W. ABUT.	2001+51.68	0.00	527.82	527.82	527.84
A	2001+61.68	0.00	527.87	527.88	527.90
B	2001+71.68	0.00	527.92	527.94	527.96
C	2001+81.68	0.00	527.97	527.99	528.01
D	2001+91.68	0.00	528.02	528.04	528.06
E	2002+01.68	0.00	528.07	528.09	528.11
F	2002+11.68	0.00	528.12	528.14	528.16
G	2002+21.68	0.00	528.16	528.18	528.20
W. CL BRG. PIER 1	2002+33.85	0.00	528.22	528.22	528.24
CL PIER 1	2002+34.85	0.00	528.22	528.22	528.24
E. CL BRG. PIER 1	2002+35.85	0.00	528.23	528.23	528.25
H	2002+44.85	0.00	528.26	528.27	528.29
I	2002+54.85	0.00	528.30	528.32	528.34
J	2002+64.85	0.00	528.33	528.36	528.38
K	2002+74.85	0.00	528.37	528.39	528.41
L	2002+84.85	0.00	528.40	528.42	528.44
M	2002+94.85	0.00	528.42	528.44	528.46
N	2003+04.85	0.00	528.44	528.46	528.48
W. CL BRG. PIER 2	2003+17.10	0.00	528.47	528.47	528.49
CL PIER 2	2003+18.10	0.00	528.47	528.47	528.49
E. CL BRG. PIER 2	2003+19.10	0.00	528.47	528.47	528.49
O	2003+28.10	0.00	528.49	528.52	528.54
P	2003+38.10	0.00	528.50	528.56	528.58
Q	2003+48.10	0.00	528.51	528.60	528.62
R	2003+58.10	0.00	528.52	528.63	528.65
S	2003+68.10	0.00	528.53	528.64	528.66
T	2003+78.10	0.00	528.53	528.66	528.68
U	2003+88.10	0.00	528.53	528.65	528.67
V	2003+98.10	0.00	528.52	528.64	528.66
W	2004+08.10	0.00	528.52	528.62	528.64
X	2004+18.10	0.00	528.51	528.59	528.61
Y	2004+28.10	0.00	528.50	528.54	528.56
Z	2004+38.10	0.00	528.48	528.50	528.52
W. CL BRG. PIER 3	2004+43.10	0.00	528.47	528.47	528.49
CL PIER 3	2004+44.10	0.00	528.47	528.47	528.49
E. CL BRG. PIER 3	2004+45.10	0.00	528.47	528.47	528.49
AA	2004+54.10	0.00	528.45	528.46	528.48
AB	2004+64.10	0.00	528.43	528.45	528.47
AC	2004+74.10	0.00	528.40	528.43	528.45
AD	2004+84.10	0.00	528.38	528.40	528.42
AE	2004+94.10	0.00	528.35	528.37	528.39
AF	2005+04.10	0.00	528.31	528.33	528.35
AG	2005+14.10	0.00	528.28	528.29	528.31
W. CL BRG. PIER 4	2005+26.35	0.00	528.23	528.23	528.25
CL PIER 4	2005+27.35	0.00	528.22	528.22	528.24
E. CL BRG. PIER 4	2005+28.35	0.00	528.22	528.22	528.24
AH	2005+37.35	0.00	528.18	528.19	528.21
AI	2005+47.35	0.00	528.13	528.15	528.17
AJ	2005+57.35	0.00	528.09	528.12	528.14
AK	2005+67.35	0.00	528.04	528.07	528.09
AL	2005+77.35	0.00	527.99	528.02	528.04
AM	2005+87.35	0.00	527.94	527.96	527.98
AN	2005+97.35	0.00	527.89	527.91	527.93
CL BRG. E. ABUT.	2006+10.51	0.00	527.83	527.83	527.85
CL EXP. JT.	2006+11.60	0.00	527.82	527.82	527.84
Bk. E. ABUT.	2006+13.69	0.00	527.81	527.81	527.83

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 025-0107

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.



BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

3 Oak Drive
Maryville, IL 62062-5635
Local (618) 288-4965
Fax 618-288-4966

SHEET NO. 14 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	46
	SN 025-0107			CONTRACT NO. 74296	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM LINE 9

BEAM LINE 10

Location	Station	Offset	Theoretical Grade Elevations	Theor. Grade Elev. Adj. For Dead Ld. Deflection	Theor. Grade Elev. Adj. For Dead Ld. Deflection & Grinding
Bk. W. ABUT.	2001+48.52	0.50	527.81	527.81	527.83
CL EXP. JT.	2001+50.59	0.50	527.82	527.82	527.84
CL BRG. W. ABUT.	2001+51.68	0.50	527.83	527.83	527.85
A	2001+61.68	0.50	527.88	527.89	527.91
B	2001+71.68	0.50	527.93	527.94	527.96
C	2001+81.68	0.50	527.98	528.00	528.02
D	2001+91.68	0.50	528.03	528.05	528.07
E	2002+01.68	0.50	528.08	528.10	528.12
F	2002+11.68	0.50	528.13	528.15	528.17
G	2002+21.68	0.50	528.17	528.18	528.20
W. CL BRG. PIER 1	2002+33.85	0.50	528.23	528.23	528.25
CL PIER 1	2002+34.85	0.50	528.23	528.23	528.25
E. CL BRG. PIER 1	2002+35.85	0.50	528.23	528.23	528.25
H	2002+44.85	0.50	528.27	528.28	528.30
I	2002+54.85	0.50	528.31	528.32	528.34
J	2002+64.85	0.50	528.34	528.36	528.38
K	2002+74.85	0.50	528.37	528.40	528.42
L	2002+84.85	0.50	528.40	528.43	528.45
M	2002+94.85	0.50	528.43	528.45	528.47
N	2003+04.85	0.50	528.45	528.46	528.48
W. CL BRG. PIER 2	2003+17.10	0.50	528.48	528.48	528.50
CL PIER 2	2003+18.10	0.50	528.48	528.48	528.50
E. CL BRG. PIER 2	2003+19.10	0.50	528.48	528.48	528.50
O	2003+28.10	0.50	528.50	528.53	528.55
P	2003+38.10	0.50	528.51	528.57	528.59
Q	2003+48.10	0.50	528.52	528.61	528.63
R	2003+58.10	0.50	528.53	528.63	528.65
S	2003+68.10	0.50	528.53	528.65	528.67
T	2003+78.10	0.50	528.54	528.67	528.69
U	2003+88.10	0.50	528.54	528.66	528.68
V	2003+98.10	0.50	528.53	528.65	528.67
W	2004+08.10	0.50	528.53	528.63	528.65
X	2004+18.10	0.50	528.52	528.59	528.61
Y	2004+28.10	0.50	528.50	528.55	528.57
Z	2004+38.10	0.50	528.49	528.51	528.53
W. CL BRG. PIER 3	2004+43.10	0.50	528.48	528.48	528.50
CL PIER 3	2004+44.10	0.50	528.48	528.48	528.50
E. CL BRG. PIER 3	2004+45.10	0.50	528.48	528.48	528.50
AA	2004+54.10	0.50	528.46	528.47	528.49
AB	2004+64.10	0.50	528.44	528.45	528.47
AC	2004+74.10	0.50	528.41	528.43	528.45
AD	2004+84.10	0.50	528.38	528.41	528.43
AE	2004+94.10	0.50	528.35	528.38	528.40
AF	2005+04.10	0.50	528.32	528.34	528.36
AG	2005+14.10	0.50	528.28	528.29	528.31
W. CL BRG. PIER 4	2005+26.35	0.50	528.23	528.23	528.25
CL PIER 4	2005+27.35	0.50	528.23	528.23	528.25
E. CL BRG. PIER 4	2005+28.35	0.50	528.23	528.23	528.25
AH	2005+37.35	0.50	528.19	528.20	528.22
AI	2005+47.35	0.50	528.14	528.16	528.18
AJ	2005+57.35	0.50	528.10	528.12	528.14
AK	2005+67.35	0.50	528.05	528.08	528.10
AL	2005+77.35	0.50	528.00	528.03	528.05
AM	2005+87.35	0.50	527.95	527.97	527.99
AN	2005+97.35	0.50	527.90	527.91	527.93
CL BRG. E. ABUT.	2006+10.51	0.50	527.84	527.84	527.86
CL EXP. JT.	2006+11.60	0.50	527.83	527.83	527.85
BK. E. ABUT.	2006+13.69	0.50	527.82	527.82	527.84

Location	Station	Offset	Theoretical Grade Elevations	Theor. Grade Elev. Adj. For Dead Ld. Deflection	Theor. Grade Elev. Adj. For Dead Ld. Deflection & Grinding
Bk. W. ABUT.	2001+48.52	7.25	527.92	527.92	527.94
CL EXP. JT.	2001+50.59	7.25	527.93	527.93	527.95
CL BRG. W. ABUT.	2001+51.68	7.25	527.93	527.93	527.95
A	2001+61.68	7.25	527.98	527.99	528.01
B	2001+71.68	7.25	528.03	528.05	528.07
C	2001+81.68	7.25	528.08	528.10	528.12
D	2001+91.68	7.25	528.13	528.16	528.18
E	2002+01.68	7.25	528.18	528.21	528.23
F	2002+11.68	7.25	528.23	528.25	528.27
G	2002+21.68	7.25	528.28	528.29	528.31
W. CL BRG. PIER 1	2002+33.85	7.25	528.33	528.33	528.35
CL PIER 1	2002+34.85	7.25	528.34	528.34	528.36
E. CL BRG. PIER 1	2002+35.85	7.25	528.34	528.34	528.36
H	2002+44.85	7.25	528.38	528.38	528.40
I	2002+54.85	7.25	528.41	528.43	528.45
J	2002+64.85	7.25	528.45	528.47	528.49
K	2002+74.85	7.25	528.48	528.50	528.52
L	2002+84.85	7.25	528.51	528.53	528.55
M	2002+94.85	7.25	528.54	528.55	528.57
N	2003+04.85	7.25	528.56	528.57	528.59
W. CL BRG. PIER 2	2003+17.10	7.25	528.58	528.58	528.60
CL PIER 2	2003+18.10	7.25	528.58	528.58	528.60
E. CL BRG. PIER 2	2003+19.10	7.25	528.59	528.59	528.61
O	2003+28.10	7.25	528.60	528.63	528.65
P	2003+38.10	7.25	528.61	528.68	528.70
Q	2003+48.10	7.25	528.63	528.72	528.74
R	2003+58.10	7.25	528.63	528.74	528.76
S	2003+68.10	7.25	528.64	528.76	528.78
T	2003+78.10	7.25	528.64	528.77	528.79
U	2003+88.10	7.25	528.64	528.77	528.79
V	2003+98.10	7.25	528.64	528.75	528.77
W	2004+08.10	7.25	528.63	528.73	528.75
X	2004+18.10	7.25	528.62	528.70	528.72
Y	2004+28.10	7.25	528.61	528.66	528.68
Z	2004+38.10	7.25	528.59	528.61	528.63
W. CL BRG. PIER 3	2004+43.10	7.25	528.59	528.59	528.61
CL PIER 3	2004+44.10	7.25	528.58	528.58	528.60
E. CL BRG. PIER 3	2004+45.10	7.25	528.58	528.58	528.60
AA	2004+54.10	7.25	528.57	528.57	528.59
AB	2004+64.10	7.25	528.54	528.56	528.58
AC	2004+74.10	7.25	528.52	528.54	528.56
AD	2004+84.10	7.25	528.49	528.51	528.53
AE	2004+94.10	7.25	528.46	528.48	528.50
AF	2005+04.10	7.25	528.43	528.44	528.46
AG	2005+14.10	7.25	528.39	528.40	528.42
W. CL BRG. PIER 4	2005+26.35	7.25	528.34	528.34	528.36
CL PIER 4	2005+27.35	7.25	528.34	528.34	528.36
E. CL BRG. PIER 4	2005+28.35	7.25	528.33	528.33	528.35
AH	2005+37.35	7.25	528.29	528.30	528.32
AI	2005+47.35	7.25	528.25	528.26	528.28
AJ	2005+57.35	7.25	528.21	528.23	528.25
AK	2005+67.35	7.25	528.16	528.18	528.20
AL	2005+77.35	7.25	528.11	528.13	528.15
AM	2005+87.35	7.25	528.06	528.08	528.10
AN	2005+97.35	7.25	528.01	528.02	528.04
CL BRG. E. ABUT.	2006+10.51	7.25	527.94	527.94	527.96
CL EXP. JT.	2006+11.60	7.25	527.94	527.94	527.96
BK. E. ABUT.	2006+13.69	7.25	527.93	527.93	527.95

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 025-0107

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.



BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

3 Oak Drive
Mayville, IL 62662-6655
Local (618) 288-4665
Fax (618) 288-4665

SHEET NO. 15 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	47
SN 025-0107			CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION JOINT (E.B.) € ROADWAY (E.B.)

Location	Station	Offset	Theoretical Grade Elevations	Theor. Grade Elev. Adj. For Dead Ld. Deflection	Theor. Grade Elev. Adj. For Dead Ld. Deflection & Grinding
Bk. W. ABUT.	2001+48.52	9.50	527.95	527.95	527.97
CL EXP. JT.	2001+50.59	9.50	527.96	527.96	527.98
CL BRG. W. ABUT.	2001+51.68	9.50	527.97	527.97	527.99
A	2001+61.68	9.50	528.02	528.03	528.05
B	2001+71.68	9.50	528.07	528.09	528.11
C	2001+81.68	9.50	528.12	528.14	528.16
D	2001+91.68	9.50	528.17	528.19	528.21
E	2002+01.68	9.50	528.22	528.24	528.26
F	2002+11.68	9.50	528.27	528.29	528.31
G	2002+21.68	9.50	528.31	528.33	528.35
W. CL BRG. PIER 1	2002+33.85	9.50	528.37	528.37	528.39
CL PIER 1	2002+34.85	9.50	528.37	528.37	528.39
E. CL BRG. PIER 1	2002+35.85	9.50	528.38	528.38	528.40
H	2002+44.85	9.50	528.41	528.42	528.44
I	2002+54.85	9.50	528.45	528.47	528.49
J	2002+64.85	9.50	528.48	528.50	528.52
K	2002+74.85	9.50	528.52	528.54	528.56
L	2002+84.85	9.50	528.54	528.57	528.59
M	2002+94.85	9.50	528.57	528.59	528.61
N	2003+04.85	9.50	528.59	528.60	528.62
W. CL BRG. PIER 2	2003+17.10	9.50	528.62	528.62	528.64
CL PIER 2	2003+18.10	9.50	528.62	528.62	528.64
E. CL BRG. PIER 2	2003+19.10	9.50	528.62	528.62	528.64
O	2003+28.10	9.50	528.64	528.67	528.69
P	2003+38.10	9.50	528.65	528.71	528.73
Q	2003+48.10	9.50	528.66	528.75	528.77
R	2003+58.10	9.50	528.67	528.78	528.80
S	2003+68.10	9.50	528.67	528.79	528.81
T	2003+78.10	9.50	528.68	528.81	528.83
U	2003+88.10	9.50	528.68	528.80	528.82
V	2003+98.10	9.50	528.67	528.79	528.81
W	2004+08.10	9.50	528.67	528.77	528.79
X	2004+18.10	9.50	528.66	528.74	528.76
Y	2004+28.10	9.50	528.64	528.69	528.71
Z	2004+38.10	9.50	528.63	528.65	528.67
W. CL BRG. PIER 3	2004+43.10	9.50	528.62	528.62	528.64
CL PIER 3	2004+44.10	9.50	528.62	528.62	528.64
E. CL BRG. PIER 3	2004+45.10	9.50	528.62	528.62	528.64
AA	2004+54.10	9.50	528.60	528.61	528.63
AB	2004+64.10	9.50	528.58	528.59	528.61
AC	2004+74.10	9.50	528.55	528.57	528.59
AD	2004+84.10	9.50	528.52	528.55	528.57
AE	2004+94.10	9.50	528.49	528.52	528.54
AF	2005+04.10	9.50	528.46	528.48	528.50
AG	2005+14.10	9.50	528.42	528.43	528.45
W. CL BRG. PIER 4	2005+26.35	9.50	528.38	528.38	528.40
CL PIER 4	2005+27.35	9.50	528.37	528.37	528.39
E. CL BRG. PIER 4	2005+28.35	9.50	528.37	528.37	528.39
AH	2005+37.35	9.50	528.33	528.34	528.36
AI	2005+47.35	9.50	528.28	528.30	528.32
AJ	2005+57.35	9.50	528.24	528.27	528.29
AK	2005+67.35	9.50	528.19	528.22	528.24
AL	2005+77.35	9.50	528.14	528.17	528.19
AM	2005+87.35	9.50	528.09	528.11	528.13
AN	2005+97.35	9.50	528.04	528.05	528.07
CL BRG. E. ABUT.	2006+10.51	9.50	527.98	527.98	528.00
CL EXP. JT.	2006+11.60	9.50	527.97	527.97	527.99
Bk. E. ABUT.	2006+13.69	9.50	527.96	527.96	527.98

Location	Station	Offset	Theoretical Grade Elevations	Theor. Grade Elev. Adj. For Dead Ld. Deflection	Theor. Grade Elev. Adj. For Dead Ld. Deflection & Grinding
Bk. W. ABUT.	2001+48.52	12.00	527.99	527.99	527.99
CL EXP. JT.	2001+50.59	12.00	528.00	528.00	528.00
CL BRG. W. ABUT.	2001+51.68	12.00	528.01	528.01	528.01
A	2001+61.68	12.00	528.06	528.07	528.07
B	2001+71.68	12.00	528.11	528.12	528.12
C	2001+81.68	12.00	528.16	528.18	528.18
D	2001+91.68	12.00	528.21	528.23	528.23
E	2002+01.68	12.00	528.26	528.28	528.28
F	2002+11.68	12.00	528.31	528.33	528.33
G	2002+21.68	12.00	528.35	528.36	528.36
W. CL BRG. PIER 1	2002+33.85	12.00	528.41	528.41	528.41
CL PIER 1	2002+34.85	12.00	528.41	528.41	528.41
E. CL BRG. PIER 1	2002+35.85	12.00	528.41	528.41	528.41
H	2002+44.85	12.00	528.45	528.46	528.46
I	2002+54.85	12.00	528.49	528.50	528.50
J	2002+64.85	12.00	528.52	528.54	528.54
K	2002+74.85	12.00	528.55	528.58	528.58
L	2002+84.85	12.00	528.58	528.60	528.60
M	2002+94.85	12.00	528.61	528.63	528.63
N	2003+04.85	12.00	528.63	528.64	528.64
W. CL BRG. PIER 2	2003+17.10	12.00	528.66	528.66	528.66
CL PIER 2	2003+18.10	12.00	528.66	528.66	528.66
E. CL BRG. PIER 2	2003+19.10	12.00	528.66	528.66	528.66
O	2003+28.10	12.00	528.68	528.71	528.71
P	2003+38.10	12.00	528.69	528.75	528.75
Q	2003+48.10	12.00	528.70	528.79	528.79
R	2003+58.10	12.00	528.71	528.81	528.81
S	2003+68.10	12.00	528.71	528.83	528.83
T	2003+78.10	12.00	528.72	528.85	528.85
U	2003+88.10	12.00	528.71	528.84	528.84
V	2003+98.10	12.00	528.71	528.83	528.83
W	2004+08.10	12.00	528.71	528.81	528.81
X	2004+18.10	12.00	528.70	528.77	528.77
Y	2004+28.10	12.00	528.68	528.73	528.73
Z	2004+38.10	12.00	528.67	528.69	528.69
W. CL BRG. PIER 3	2004+43.10	12.00	528.66	528.66	528.66
CL PIER 3	2004+44.10	12.00	528.66	528.66	528.66
E. CL BRG. PIER 3	2004+45.10	12.00	528.66	528.66	528.66
AA	2004+54.10	12.00	528.64	528.65	528.65
AB	2004+64.10	12.00	528.62	528.63	528.63
AC	2004+74.10	12.00	528.59	528.61	528.61
AD	2004+84.10	12.00	528.56	528.59	528.59
AE	2004+94.10	12.00	528.53	528.55	528.55
AF	2005+04.10	12.00	528.50	528.52	528.52
AG	2005+14.10	12.00	528.46	528.47	528.47
W. CL BRG. PIER 4	2005+26.35	12.00	528.41	528.41	528.41
CL PIER 4	2005+27.35	12.00	528.41	528.41	528.41
E. CL BRG. PIER 4	2005+28.35	12.00	528.41	528.41	528.41
AH	2005+37.35	12.00	528.37	528.38	528.38
AI	2005+47.35	12.00	528.32	528.34	528.34
AJ	2005+57.35	12.00	528.28	528.30	528.30
AK	2005+67.35	12.00	528.23	528.26	528.26
AL	2005+77.35	12.00	528.18	528.21	528.21
AM	2005+87.35	12.00	528.13	528.15	528.15
AN	2005+97.35	12.00	528.08	528.09	528.09
CL BRG. E. ABUT.	2006+10.51	12.00	528.02	528.02	528.02
CL EXP. JT.	2006+11.60	12.00	528.01	528.01	528.01
Bk. E. ABUT.	2006+13.69	12.00	528.00	528.00	528.00

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 025-0107**

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.



**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62442-5685
Local (618) 288-4966
Fax (618) 288-4966

SHEET NO. 16	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	48
58 SHEETS	SN 025-0107		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM LINE 11

BEAM LINE 12

Location	Station	Offset	Theoretical Grade Elevations	Theor. Grade Elev. Adj. For Dead Ld. Deflection	Theor. Grade Elev. Adj. For Dead Ld. Deflection & Grinding
Bk. W. ABUT.	2001+48.52	14.00	527.96	527.96	527.98
CL EXP. JT.	2001+50.59	14.00	527.97	527.97	527.99
CL BRG. W. ABUT.	2001+51.68	14.00	527.97	527.97	527.99
A	2001+61.68	14.00	528.02	528.03	528.05
B	2001+71.68	14.00	528.07	528.09	528.11
C	2001+81.68	14.00	528.12	528.15	528.17
D	2001+91.68	14.00	528.17	528.20	528.22
E	2002+01.68	14.00	528.22	528.25	528.27
F	2002+11.68	14.00	528.27	528.29	528.31
G	2002+21.68	14.00	528.32	528.33	528.35
W. CL BRG. PIER 1	2002+33.85	14.00	528.37	528.37	528.39
CL PIER 1	2002+34.85	14.00	528.38	528.38	528.40
E. CL BRG. PIER 1	2002+35.85	14.00	528.38	528.38	528.40
H	2002+44.85	14.00	528.42	528.43	528.45
I	2002+54.85	14.00	528.46	528.47	528.49
J	2002+64.85	14.00	528.49	528.51	528.53
K	2002+74.85	14.00	528.52	528.55	528.57
L	2002+84.85	14.00	528.55	528.57	528.59
M	2002+94.85	14.00	528.58	528.60	528.62
N	2003+04.85	14.00	528.60	528.61	528.63
W. CL BRG. PIER 2	2003+17.10	14.00	528.63	528.63	528.65
CL PIER 2	2003+18.10	14.00	528.63	528.63	528.65
E. CL BRG. PIER 2	2003+19.10	14.00	528.63	528.63	528.65
O	2003+28.10	14.00	528.64	528.67	528.69
P	2003+38.10	14.00	528.66	528.72	528.74
Q	2003+48.10	14.00	528.67	528.76	528.78
R	2003+58.10	14.00	528.68	528.78	528.80
S	2003+68.10	14.00	528.68	528.80	528.82
T	2003+78.10	14.00	528.68	528.82	528.84
U	2003+88.10	14.00	528.68	528.81	528.83
V	2003+98.10	14.00	528.68	528.79	528.81
W	2004+08.10	14.00	528.67	528.77	528.79
X	2004+18.10	14.00	528.66	528.74	528.76
Y	2004+28.10	14.00	528.65	528.70	528.72
Z	2004+38.10	14.00	528.64	528.66	528.68
W. CL BRG. PIER 3	2004+43.10	14.00	528.63	528.63	528.65
CL PIER 3	2004+44.10	14.00	528.63	528.63	528.65
E. CL BRG. PIER 3	2004+45.10	14.00	528.63	528.63	528.65
AA	2004+54.10	14.00	528.61	528.62	528.64
AB	2004+64.10	14.00	528.59	528.60	528.62
AC	2004+74.10	14.00	528.56	528.58	528.60
AD	2004+84.10	14.00	528.53	528.56	528.58
AE	2004+94.10	14.00	528.50	528.52	528.54
AF	2005+04.10	14.00	528.47	528.49	528.51
AG	2005+14.10	14.00	528.43	528.44	528.46
W. CL BRG. PIER 4	2005+26.35	14.00	528.38	528.38	528.40
CL PIER 4	2005+27.35	14.00	528.38	528.38	528.40
E. CL BRG. PIER 4	2005+28.35	14.00	528.37	528.37	528.39
AH	2005+37.35	14.00	528.34	528.34	528.36
AI	2005+47.35	14.00	528.29	528.31	528.33
AJ	2005+57.35	14.00	528.25	528.27	528.29
AK	2005+67.35	14.00	528.20	528.23	528.25
AL	2005+77.35	14.00	528.15	528.17	528.19
AM	2005+87.35	14.00	528.10	528.12	528.14
AN	2005+97.35	14.00	528.05	528.06	528.08
CL BRG. E. ABUT.	2006+10.51	14.00	527.98	527.98	528.00
CL EXP. JT.	2006+11.60	14.00	527.98	527.98	528.00
BK. E. ABUT.	2006+13.69	14.00	527.97	527.97	527.99

Location	Station	Offset	Theoretical Grade Elevations	Theor. Grade Elev. Adj. For Dead Ld. Deflection	Theor. Grade Elev. Adj. For Dead Ld. Deflection & Grinding
Bk. W. ABUT.	2001+48.52	20.75	527.85	527.85	527.87
CL EXP. JT.	2001+50.59	20.75	527.86	527.86	527.88
CL BRG. W. ABUT.	2001+51.68	20.75	527.87	527.87	527.89
A	2001+61.68	20.75	527.92	527.93	527.95
B	2001+71.68	20.75	527.97	527.99	528.01
C	2001+81.68	20.75	528.02	528.04	528.06
D	2001+91.68	20.75	528.07	528.10	528.12
E	2002+01.68	20.75	528.12	528.14	528.16
F	2002+11.68	20.75	528.17	528.19	528.21
G	2002+21.68	20.75	528.22	528.23	528.25
W. CL BRG. PIER 1	2002+33.85	20.75	528.27	528.27	528.29
CL PIER 1	2002+34.85	20.75	528.27	528.27	528.29
E. CL BRG. PIER 1	2002+35.85	20.75	528.28	528.28	528.30
H	2002+44.85	20.75	528.31	528.32	528.34
I	2002+54.85	20.75	528.35	528.37	528.39
J	2002+64.85	20.75	528.39	528.41	528.43
K	2002+74.85	20.75	528.42	528.44	528.46
L	2002+84.85	20.75	528.45	528.47	528.49
M	2002+94.85	20.75	528.47	528.49	528.51
N	2003+04.85	20.75	528.50	528.51	528.53
W. CL BRG. PIER 2	2003+17.10	20.75	528.52	528.52	528.54
CL PIER 2	2003+18.10	20.75	528.52	528.52	528.54
E. CL BRG. PIER 2	2003+19.10	20.75	528.52	528.52	528.54
O	2003+28.10	20.75	528.54	528.57	528.59
P	2003+38.10	20.75	528.55	528.61	528.63
Q	2003+48.10	20.75	528.56	528.65	528.67
R	2003+58.10	20.75	528.57	528.68	528.70
S	2003+68.10	20.75	528.58	528.70	528.72
T	2003+78.10	20.75	528.58	528.71	528.73
U	2003+88.10	20.75	528.58	528.71	528.73
V	2003+98.10	20.75	528.57	528.69	528.71
W	2004+08.10	20.75	528.57	528.67	528.69
X	2004+18.10	20.75	528.56	528.64	528.66
Y	2004+28.10	20.75	528.55	528.60	528.62
Z	2004+38.10	20.75	528.53	528.55	528.57
W. CL BRG. PIER 3	2004+43.10	20.75	528.52	528.52	528.54
CL PIER 3	2004+44.10	20.75	528.52	528.52	528.54
E. CL BRG. PIER 3	2004+45.10	20.75	528.52	528.52	528.54
AA	2004+54.10	20.75	528.50	528.51	528.53
AB	2004+64.10	20.75	528.48	528.50	528.52
AC	2004+74.10	20.75	528.46	528.48	528.50
AD	2004+84.10	20.75	528.43	528.45	528.47
AE	2004+94.10	20.75	528.40	528.42	528.44
AF	2005+04.10	20.75	528.36	528.38	528.40
AG	2005+14.10	20.75	528.33	528.34	528.36
W. CL BRG. PIER 4	2005+26.35	20.75	528.28	528.28	528.30
CL PIER 4	2005+27.35	20.75	528.27	528.27	528.29
E. CL BRG. PIER 4	2005+28.35	20.75	528.27	528.27	528.29
AH	2005+37.35	20.75	528.23	528.24	528.26
AI	2005+47.35	20.75	528.18	528.20	528.22
AJ	2005+57.35	20.75	528.15	528.17	528.19
AK	2005+67.35	20.75	528.10	528.12	528.14
AL	2005+77.35	20.75	528.05	528.07	528.09
AM	2005+87.35	20.75	528.00	528.01	528.03
AN	2005+97.35	20.75	527.95	527.96	527.98
CL BRG. E. ABUT.	2006+10.51	20.75	527.88	527.88	527.90
CL EXP. JT.	2006+11.60	20.75	527.87	527.87	527.89
BK. E. ABUT.	2006+13.69	20.75	527.86	527.86	527.88

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 025-0107

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.



**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62442-2655
Local (618) 298-4665
Fax 618-298-4666

SHEET NO. 17	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	49
58 SHEETS	SN 025-0107		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 70		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM LINE 13

BEAM LINE 14

Location	Station	Offset	Theoretical Grade Elevations	Theor. Grade Elev. Adj. For Dead Ld. Deflection	Theor. Grade Elev. Adj. For Dead Ld. Deflection & Grinding
Bk. W. ABUT.	2001+48.52	27.50	527.73	527.73	527.75
CL EXP. JT.	2001+50.59	27.50	527.74	527.74	527.76
CL BRG. W. ABUT.	2001+51.68	27.50	527.75	527.75	527.77
A	2001+61.68	27.50	527.80	527.80	527.82
B	2001+71.68	27.50	527.85	527.86	527.88
C	2001+81.68	27.50	527.90	527.92	527.94
D	2001+91.68	27.50	527.95	527.97	527.99
E	2002+01.68	27.50	528.00	528.02	528.04
F	2002+11.68	27.50	528.05	528.06	528.08
G	2002+21.68	27.50	528.09	528.10	528.12
W. CL BRG. PIER 1	2002+33.85	27.50	528.15	528.15	528.17
CL PIER 1	2002+34.85	27.50	528.15	528.15	528.17
E. CL BRG. PIER 1	2002+35.85	27.50	528.15	528.15	528.17
H	2002+44.85	27.50	528.19	528.20	528.22
I	2002+54.85	27.50	528.23	528.24	528.26
J	2002+64.85	27.50	528.26	528.28	528.30
K	2002+74.85	27.50	528.29	528.32	528.34
L	2002+84.85	27.50	528.32	528.34	528.36
M	2002+94.85	27.50	528.35	528.37	528.39
N	2003+04.85	27.50	528.37	528.38	528.40
W. CL BRG. PIER 2	2003+17.10	27.50	528.40	528.40	528.42
CL PIER 2	2003+18.10	27.50	528.40	528.40	528.42
E. CL BRG. PIER 2	2003+19.10	27.50	528.40	528.40	528.42
O	2003+28.10	27.50	528.41	528.45	528.47
P	2003+38.10	27.50	528.43	528.49	528.51
Q	2003+48.10	27.50	528.44	528.53	528.55
R	2003+58.10	27.50	528.45	528.55	528.57
S	2003+68.10	27.50	528.45	528.57	528.59
T	2003+78.10	27.50	528.45	528.59	528.61
U	2003+88.10	27.50	528.45	528.58	528.60
V	2003+98.10	27.50	528.45	528.57	528.59
W	2004+08.10	27.50	528.44	528.55	528.57
X	2004+18.10	27.50	528.44	528.51	528.53
Y	2004+28.10	27.50	528.42	528.47	528.49
Z	2004+38.10	27.50	528.41	528.43	528.45
W. CL BRG. PIER 3	2004+43.10	27.50	528.40	528.40	528.42
CL PIER 3	2004+44.10	27.50	528.40	528.40	528.42
E. CL BRG. PIER 3	2004+45.10	27.50	528.40	528.40	528.42
AA	2004+54.10	27.50	528.38	528.39	528.41
AB	2004+64.10	27.50	528.36	528.37	528.39
AC	2004+74.10	27.50	528.33	528.35	528.37
AD	2004+84.10	27.50	528.30	528.33	528.35
AE	2004+94.10	27.50	528.27	528.29	528.31
AF	2005+04.10	27.50	528.24	528.26	528.28
AG	2005+14.10	27.50	528.20	528.21	528.23
W. CL BRG. PIER 4	2005+26.35	27.50	528.15	528.15	528.17
CL PIER 4	2005+27.35	27.50	528.15	528.15	528.17
E. CL BRG. PIER 4	2005+28.35	27.50	528.15	528.15	528.17
AH	2005+37.35	27.50	528.11	528.12	528.14
AI	2005+47.35	27.50	528.06	528.08	528.10
AJ	2005+57.35	27.50	528.02	528.04	528.06
AK	2005+67.35	27.50	527.97	528.00	528.02
AL	2005+77.35	27.50	527.92	527.95	527.97
AM	2005+87.35	27.50	527.87	527.89	527.91
AN	2005+97.35	27.50	527.82	527.83	527.85
CL BRG. E. ABUT.	2006+10.51	27.50	527.76	527.76	527.78
CL EXP. JT.	2006+11.60	27.50	527.75	527.75	527.77
BK. E. ABUT.	2006+13.69	27.50	527.74	527.74	527.76

Location	Station	Offset	Theoretical Grade Elevations	Theor. Grade Elev. Adj. For Dead Ld. Deflection	Theor. Grade Elev. Adj. For Dead Ld. Deflection & Grinding
Bk. W. ABUT.	2001+48.52	34.25	527.59	527.59	527.61
CL EXP. JT.	2001+50.59	34.25	527.60	527.60	527.62
CL BRG. W. ABUT.	2001+51.68	34.25	527.60	527.60	527.62
A	2001+61.68	34.25	527.65	527.66	527.68
B	2001+71.68	34.25	527.70	527.72	527.74
C	2001+81.68	34.25	527.75	527.78	527.80
D	2001+91.68	34.25	527.80	527.83	527.85
E	2002+01.68	34.25	527.85	527.88	527.90
F	2002+11.68	34.25	527.90	527.92	527.94
G	2002+21.68	34.25	527.95	527.96	527.98
W. CL BRG. PIER 1	2002+33.85	34.25	528.00	528.00	528.02
CL PIER 1	2002+34.85	34.25	528.01	528.01	528.03
E. CL BRG. PIER 1	2002+35.85	34.25	528.01	528.01	528.03
H	2002+44.85	34.25	528.05	528.06	528.08
I	2002+54.85	34.25	528.09	528.10	528.12
J	2002+64.85	34.25	528.12	528.14	528.16
K	2002+74.85	34.25	528.15	528.18	528.20
L	2002+84.85	34.25	528.18	528.20	528.22
M	2002+94.85	34.25	528.21	528.23	528.25
N	2003+04.85	34.25	528.23	528.24	528.26
W. CL BRG. PIER 2	2003+17.10	34.25	528.26	528.26	528.28
CL PIER 2	2003+18.10	34.25	528.26	528.26	528.28
E. CL BRG. PIER 2	2003+19.10	34.25	528.26	528.26	528.28
O	2003+28.10	34.25	528.27	528.30	528.32
P	2003+38.10	34.25	528.29	528.35	528.37
Q	2003+48.10	34.25	528.30	528.39	528.41
R	2003+58.10	34.25	528.31	528.41	528.43
S	2003+68.10	34.25	528.31	528.43	528.45
T	2003+78.10	34.25	528.31	528.45	528.47
U	2003+88.10	34.25	528.31	528.44	528.46
V	2003+98.10	34.25	528.31	528.42	528.44
W	2004+08.10	34.25	528.30	528.41	528.43
X	2004+18.10	34.25	528.29	528.37	528.39
Y	2004+28.10	34.25	528.28	528.33	528.35
Z	2004+38.10	34.25	528.27	528.29	528.31
W. CL BRG. PIER 3	2004+43.10	34.25	528.26	528.26	528.28
CL PIER 3	2004+44.10	34.25	528.26	528.26	528.28
E. CL BRG. PIER 3	2004+45.10	34.25	528.26	528.26	528.28
AA	2004+54.10	34.25	528.24	528.25	528.27
AB	2004+64.10	34.25	528.22	528.23	528.25
AC	2004+74.10	34.25	528.19	528.21	528.23
AD	2004+84.10	34.25	528.16	528.19	528.21
AE	2004+94.10	34.25	528.13	528.15	528.17
AF	2005+04.10	34.25	528.10	528.12	528.14
AG	2005+14.10	34.25	528.06	528.07	528.09
W. CL BRG. PIER 4	2005+26.35	34.25	528.01	528.01	528.03
CL PIER 4	2005+27.35	34.25	528.01	528.01	528.03
E. CL BRG. PIER 4	2005+28.35	34.25	528.00	528.00	528.02
AH	2005+37.35	34.25	527.97	527.97	527.99
AI	2005+47.35	34.25	527.92	527.94	527.96
AJ	2005+57.35	34.25	527.88	527.90	527.92
AK	2005+67.35	34.25	527.83	527.86	527.88
AL	2005+77.35	34.25	527.78	527.80	527.82
AM	2005+87.35	34.25	527.73	527.75	527.77
AN	2005+97.35	34.25	527.68	527.69	527.71
CL BRG. E. ABUT.	2006+10.51	34.25	527.61	527.61	527.63
CL EXP. JT.	2006+11.60	34.25	527.61	527.61	527.63
BK. E. ABUT.	2006+13.69	34.25	527.60	527.60	527.62

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 025-0107

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.



**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62062-5685
Local (618) 288-4665
Fax 618-288-4666

SHEET NO. 18 58 SHEETS	F.A.I. RTE. 70	SECTION (25-3)B	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 50
	SN 025-0107		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End of West Appr. Pav't	2001+19.02	-36.00	527.42	527.44
A	2001+29.02	-36.00	527.46	527.48
B	2001+39.02	-36.00	527.51	527.53
E. End of West Appr. Pav't	2001+49.02	-36.00	527.56	527.58

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End of West Appr. Pav't	2001+19.02	-24.00	527.67	527.69
A	2001+29.02	-24.00	527.71	527.73
B	2001+39.02	-24.00	527.76	527.78
E. End of West Appr. Pav't	2001+49.02	-24.00	527.81	527.83

ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End of West Appr. Pav't	2001+19.02	-12.00	527.85	527.87
A	2001+29.02	-12.00	527.90	527.92
B	2001+39.02	-12.00	527.94	527.96
E. End of West Appr. Pav't	2001+49.02	-12.00	527.99	528.01

STAGE CONSTRUCTION JOINT

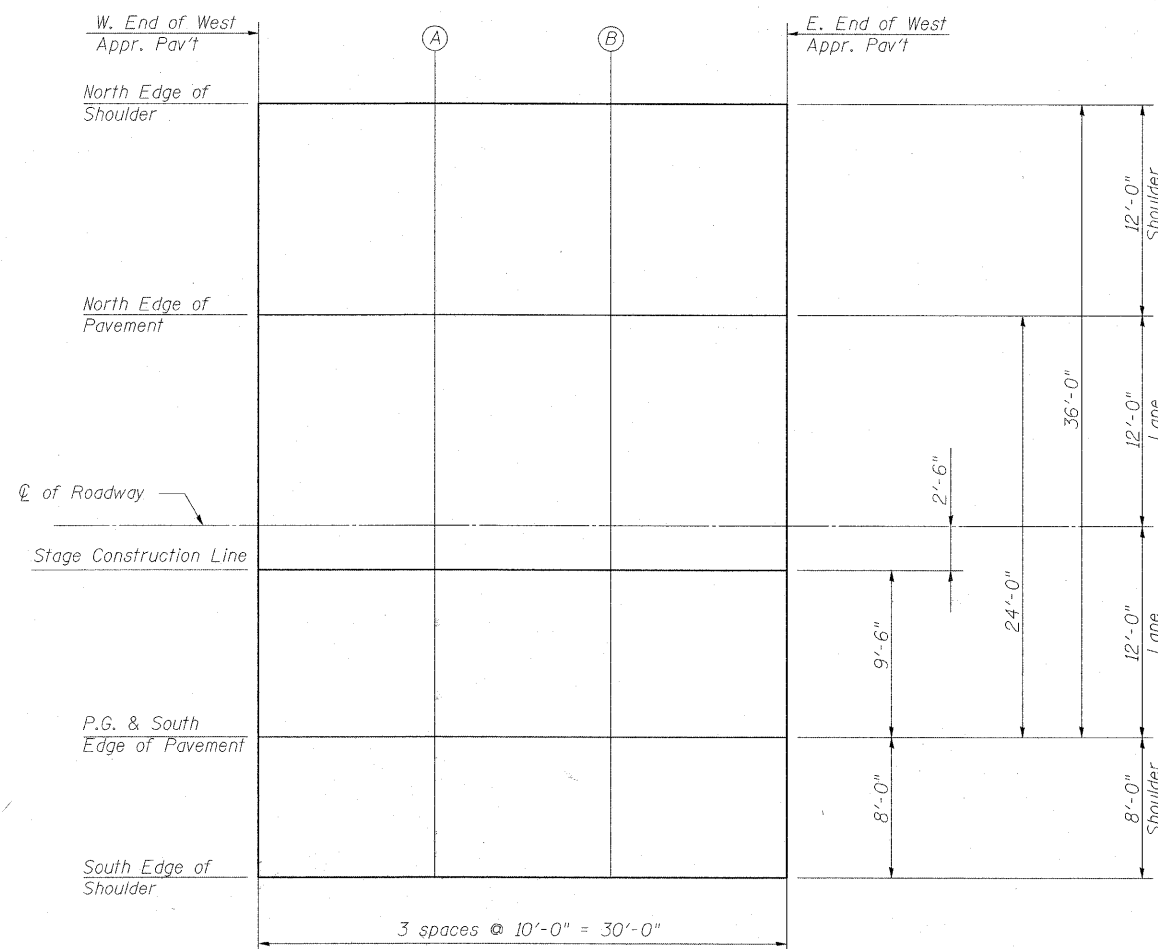
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End of West Appr. Pav't	2001+19.02	-9.50	527.82	527.84
A	2001+29.02	-9.50	527.86	527.88
B	2001+39.02	-9.50	527.90	527.92
E. End of West Appr. Pav't	2001+49.02	-9.50	527.95	527.97

P.G. & SOUTH
EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End of West Appr. Pav't	2001+19.02	0.00	527.67	527.69
A	2001+29.02	0.00	527.71	527.73
B	2001+39.02	0.00	527.76	527.78
E. End of West Appr. Pav't	2001+49.02	0.00	527.81	527.83

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End of West Appr. Pav't	2001+19.02	8.00	527.50	527.52
A	2001+29.02	8.00	527.55	527.57
B	2001+39.02	8.00	527.59	527.61
E. End of West Appr. Pav't	2001+49.02	8.00	527.64	527.66



PLAN WEST APPROACH

WEST APPROACH PAVEMENT
TOP OF SLAB ELEVATIONS
STRUCTURE NO. 025-0108

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.



**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62062-5635
Local (618) 338-4000
Fax 618-338-4000

SHEET NO. 19 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	51
SN 025-0108			CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End of East Appr. Pav't	2006+13.18	-36.00	527.56	527.58
A	2006+23.18	-36.00	527.51	527.53
B	2006+33.18	-36.00	527.47	527.49
E. End of East Appr. Pav't	2006+43.18	-36.00	527.42	527.44

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End of East Appr. Pav't	2006+13.18	-24.00	527.81	527.83
A	2006+23.18	-24.00	527.76	527.78
B	2006+33.18	-24.00	527.72	527.74
E. End of East Appr. Pav't	2006+43.18	-24.00	527.67	527.69

CL ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End of East Appr. Pav't	2006+13.18	-12.00	528.00	528.02
A	2006+23.18	-12.00	527.95	527.97
B	2006+33.18	-12.00	527.90	527.92
E. End of East Appr. Pav't	2006+43.18	-12.00	527.86	527.88

STAGE CONSTRUCTION JOINT

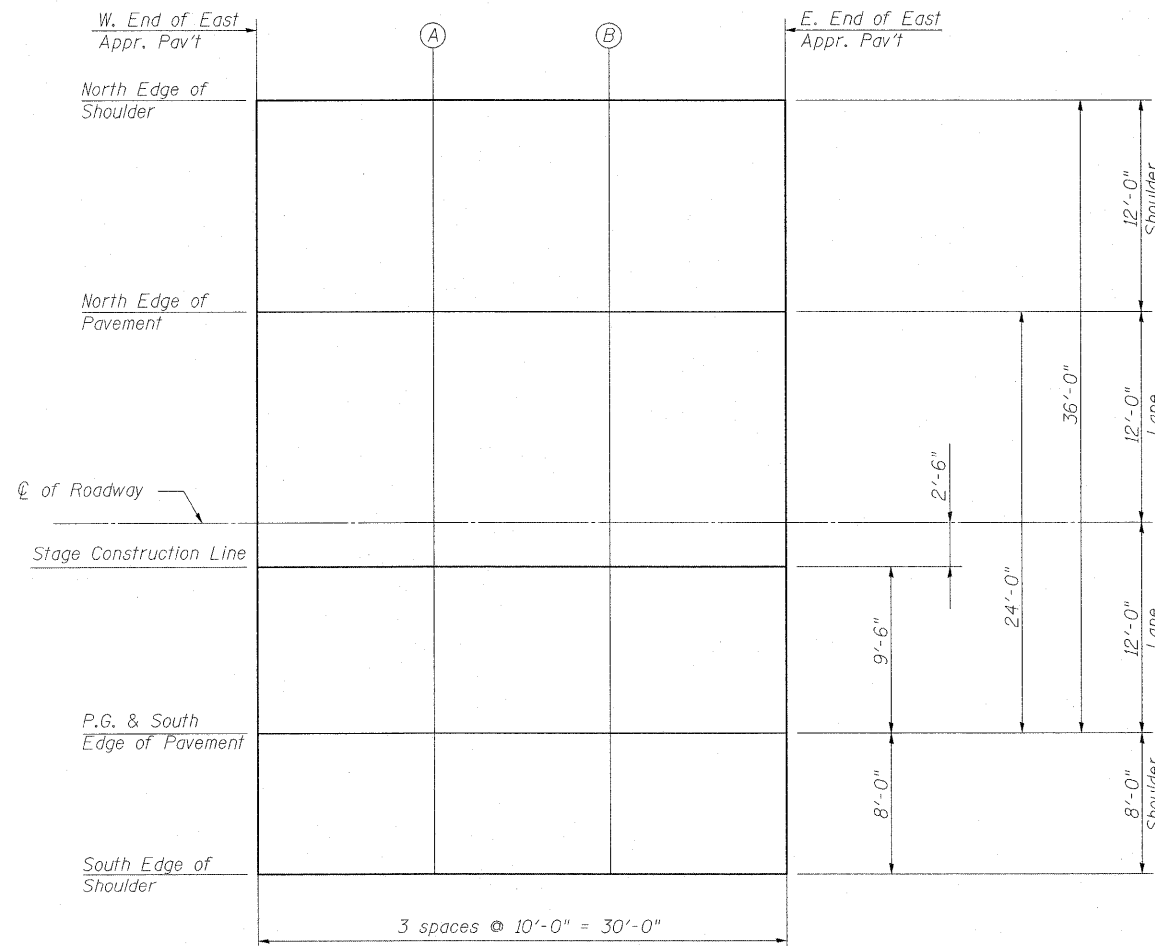
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End of East Appr. Pav't	2006+13.18	-9.50	527.96	527.98
A	2006+23.18	-9.50	527.91	527.93
B	2006+33.18	-9.50	527.86	527.88
E. End of East Appr. Pav't	2006+43.18	-9.50	527.82	527.84

**P.G. & SOUTH
EDGE OF PAVEMENT**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End of East Appr. Pav't	2006+13.18	0.00	527.81	527.83
A	2006+23.18	0.00	527.76	527.78
B	2006+33.18	0.00	527.72	527.74
E. End of East Appr. Pav't	2006+43.18	0.00	527.67	527.69

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End of East Appr. Pav't	2006+13.18	8.00	527.64	527.66
A	2006+23.18	8.00	527.60	527.62
B	2006+33.18	8.00	527.55	527.57
E. End of East Appr. Pav't	2006+43.18	8.00	527.51	527.53



PLAN EAST APPROACH

**EAST APPROACH PAVEMENT
TOP OF SLAB ELEVATIONS
STRUCTURE NO. 025-0108**

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.



**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62062-5635
Local (618) 288-4665
Fax 618-288-4666

SHEET NO. 20 58 SHEETS	F.A.I. RTE. 70	SECTION (25-3)B	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 52
	SN 025-0108		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End of West Appr. Pav't	2001+19.02	-8.00	527.50	527.52
A	2001+29.02	-8.00	527.55	527.57
B	2001+39.02	-8.00	527.59	527.61
E. End of West Appr. Pav't	2001+49.02	-8.00	527.64	527.66

**P.G. & NORTH
EDGE OF PAVEMENT**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End of West Appr. Pav't	2001+19.02	0.00	527.67	527.69
A	2001+29.02	0.00	527.71	527.73
B	2001+39.02	0.00	527.76	527.78
E. End of West Appr. Pav't	2001+49.02	0.00	527.81	527.83

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End of West Appr. Pav't	2001+19.02	9.50	527.82	527.84
A	2001+29.02	9.50	527.86	527.88
B	2001+39.02	9.50	527.90	527.92
E. End of West Appr. Pav't	2001+49.02	9.50	527.95	527.97

☉ ROADWAY

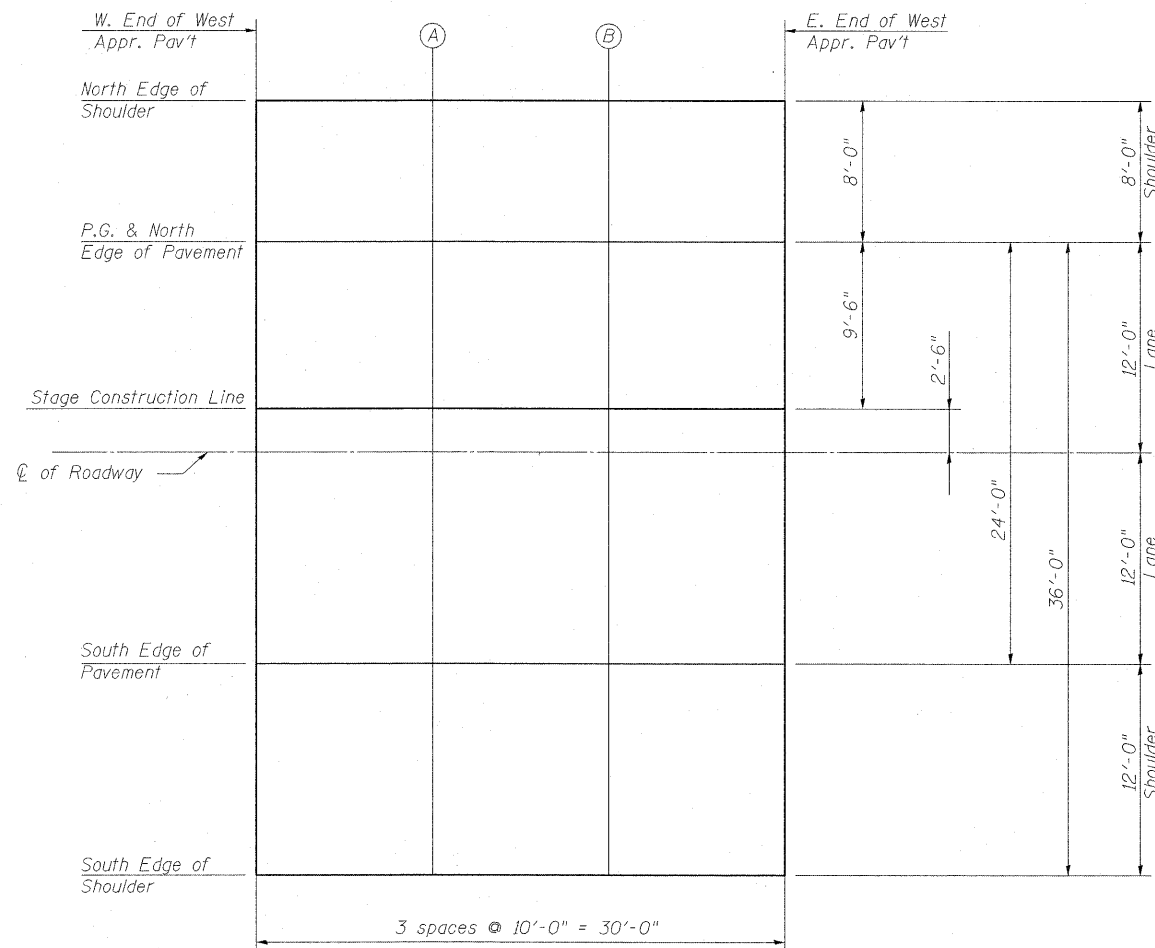
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End of West Appr. Pav't	2001+19.02	12.00	527.85	527.87
A	2001+29.02	12.00	527.90	527.92
B	2001+39.02	12.00	527.94	527.96
E. End of West Appr. Pav't	2001+49.02	12.00	527.99	528.01

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End of West Appr. Pav't	2001+19.02	24.00	527.67	527.69
A	2001+29.02	24.00	527.71	527.73
B	2001+39.02	24.00	527.76	527.78
E. End of West Appr. Pav't	2001+49.02	24.00	527.81	527.83

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End of West Appr. Pav't	2001+19.02	36.00	527.42	527.44
A	2001+29.02	36.00	527.46	527.48
B	2001+39.02	36.00	527.51	527.53
E. End of West Appr. Pav't	2001+49.02	36.00	527.56	527.58



PLAN WEST APPROACH

**WEST APPROACH PAVEMENT
TOP OF SLAB ELEVATIONS
STRUCTURE NO. 025-0107**

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.



**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62062-5685
Local (618) 288-4665
Fax 618-288-4665

SHEET NO. 21 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	53
SN 025-0107			CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End of East Appr. Pav't	2006+13.18	-8.00	527.64	527.66
A	2006+23.18	-8.00	527.60	527.62
B	2006+33.18	-8.00	527.55	527.57
E. End of East Appr. Pav't	2006+43.18	-8.00	527.51	527.53

P.G. & NORTH
EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End of East Appr. Pav't	2006+13.18	0.00	527.81	527.83
A	2006+23.18	0.00	527.76	527.78
B	2006+33.18	0.00	527.72	527.74
E. End of East Appr. Pav't	2006+43.18	0.00	527.67	527.69

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End of East Appr. Pav't	2006+13.18	9.50	527.96	527.98
A	2006+23.18	9.50	527.91	527.93
B	2006+33.18	9.50	527.86	527.88
E. End of East Appr. Pav't	2006+43.18	9.50	527.82	527.84

☉ ROADWAY

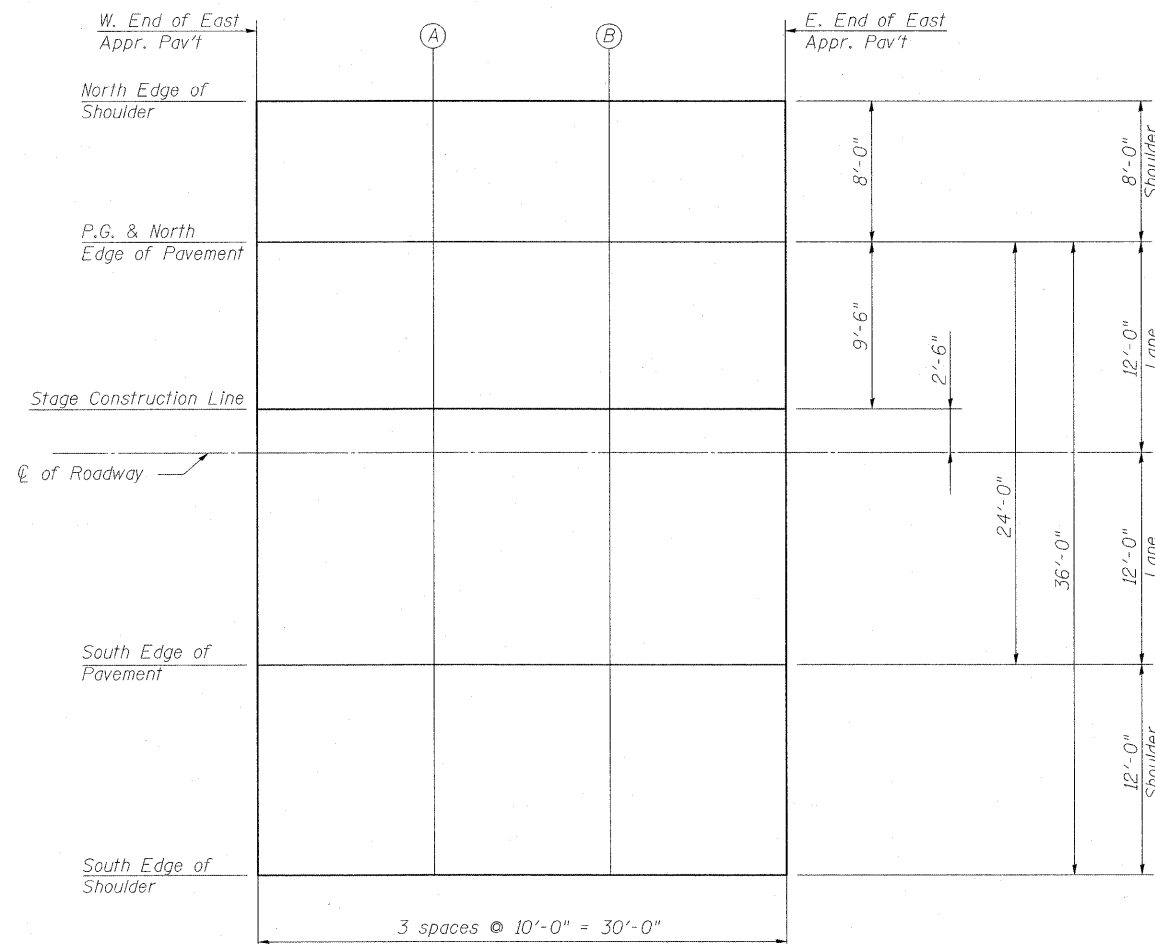
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End of East Appr. Pav't	2006+13.18	12.00	528.00	528.02
A	2006+23.18	12.00	527.95	527.97
B	2006+33.18	12.00	527.90	527.92
E. End of East Appr. Pav't	2006+43.18	12.00	527.86	527.88

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End of East Appr. Pav't	2006+13.18	24.00	527.81	527.83
A	2006+23.18	24.00	527.76	527.78
B	2006+33.18	24.00	527.72	527.74
E. End of East Appr. Pav't	2006+43.18	24.00	527.67	527.69

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End of East Appr. Pav't	2006+13.18	36.00	527.56	527.58
A	2006+23.18	36.00	527.51	527.53
B	2006+33.18	36.00	527.47	527.49
E. End of East Appr. Pav't	2006+43.18	36.00	527.42	527.44



PLAN EAST APPROACH

EAST APPROACH PAVEMENT
TOP OF SLAB ELEVATIONS
STRUCTURE NO. 025-0107

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.



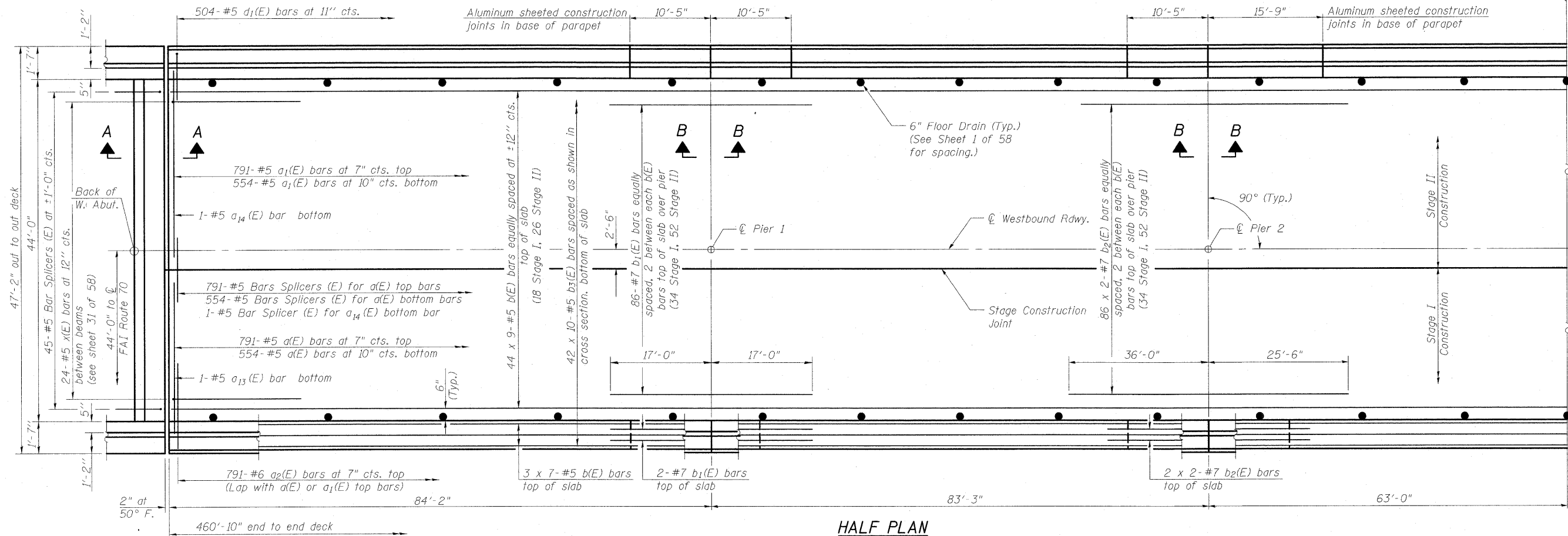
**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

8 Oak Drive
Maryville, IL 62063-5635
Local (618) 288-4665
Fax 618-288-4666

SHEET NO. 22 58 SHEETS	F.A.I. RTE. 70	SECTION (25-3)B	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 54
	SN 025-0107		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Symmetric
about C span 3

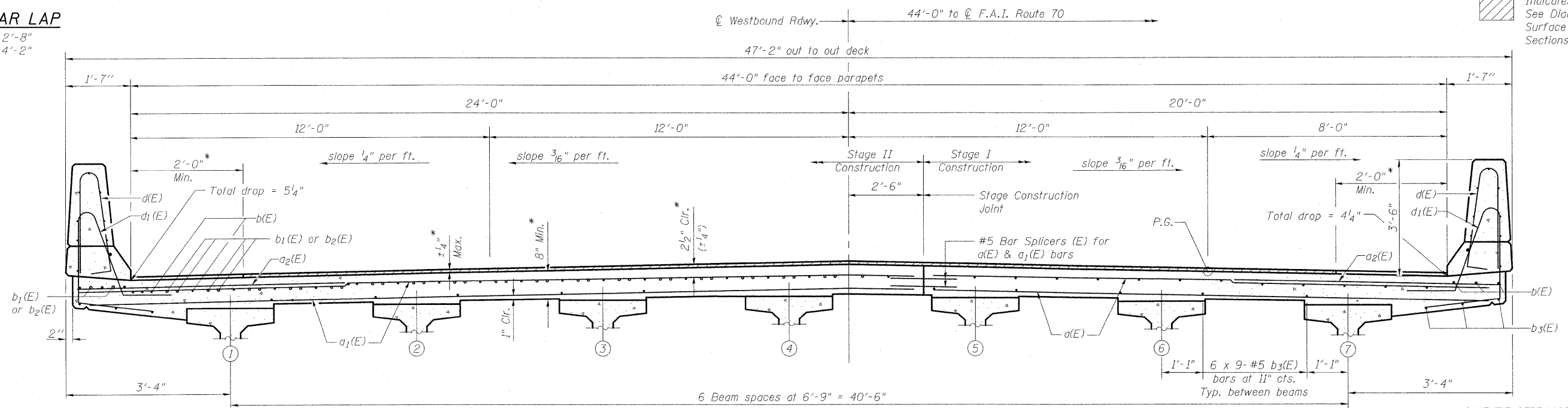


HALF PLAN

Notes:
See sheet 25 of 58 for Superstructure Details and Bill of Material.
For Section A-A and Abut. Diaphragm Details see sheet 31 of 58.
For Section B-B and Diaphragm Details see sheet 32 of 58.
Bars indicated thus 44 x 8-#5 etc. indicates 44 lines of bars with 8 lengths per line.
See sheet 25 of 58 for Parapet Reinforcement.

MINIMUM BAR LAP

#5 bar = 2'-8"
#7 bar = 4'-2"



CROSS SECTION
(Looking East)

SUPERSTRUCTURE (W.B.)
STRUCTURE NO. 025-0108

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

* See Diamond Grinding and Surface Testing Bridge Section Special Provision.



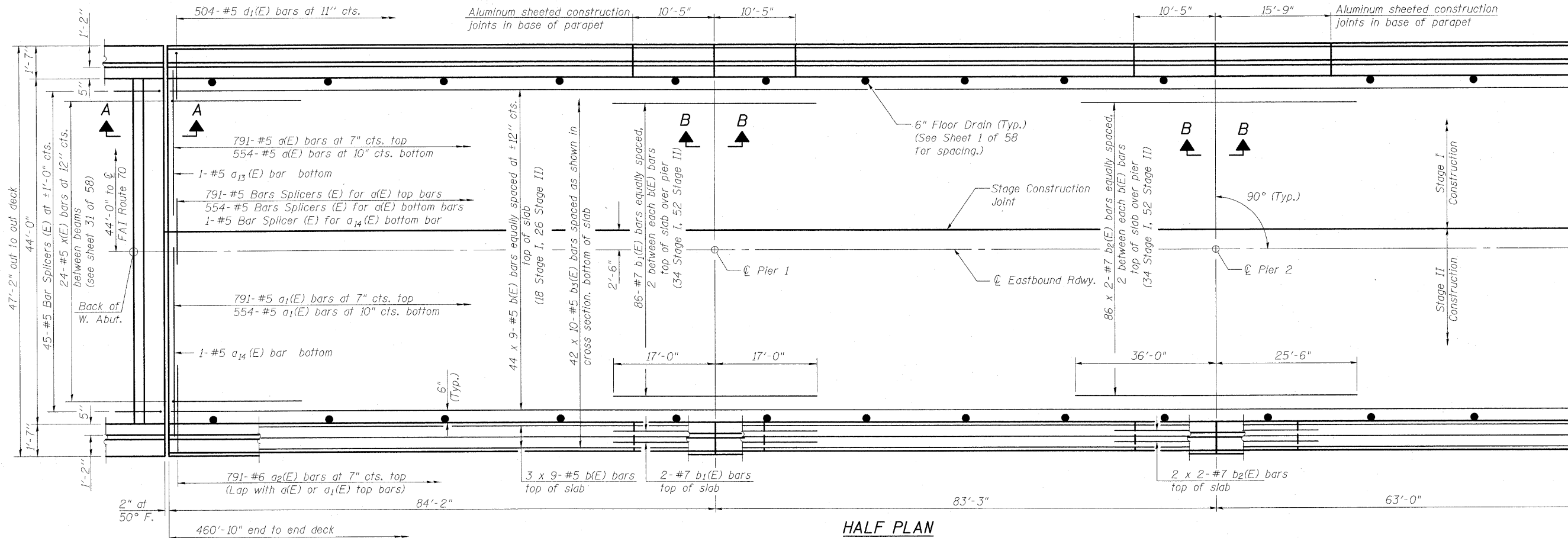
BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

3 Oak Drive
Maryville, IL 62902-9685
Local (618) 288-4665
Fax 618-288-4666

SHEET NO. 23 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	55
SN 025-0108			CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

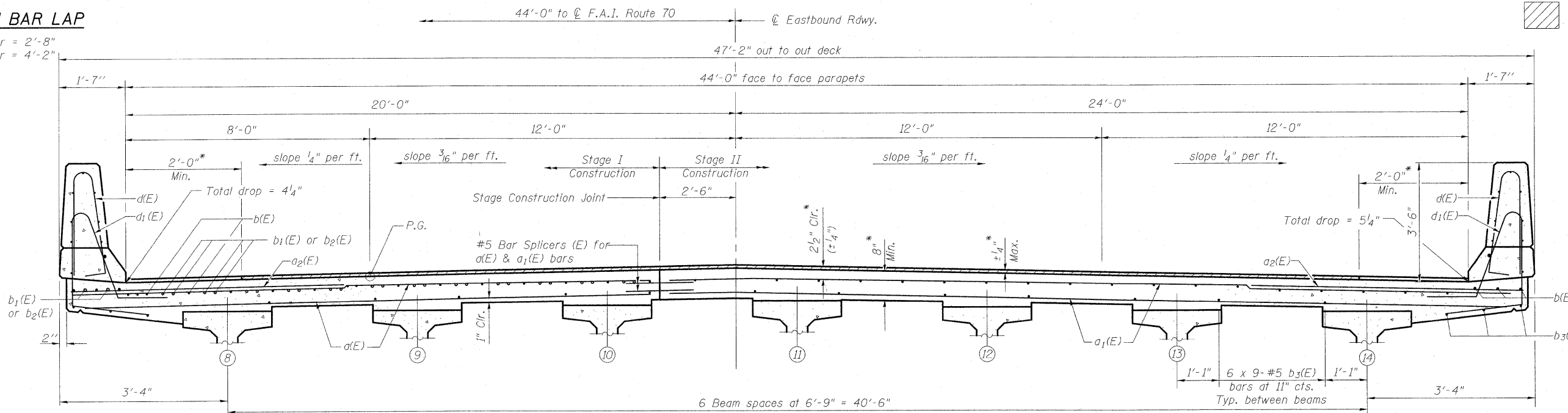
Symmetric
about \bar{C} span 3



Notes:
See sheet 25 of 58 for Superstructure Details and Bill of Material.
For Section A-A and Abut. Diaphragm Details see sheet 31 of 58.
For Section B-B and Diaphragm Details see sheet 33 of 58.
Bars indicated thus 44 x 8-#5 etc. indicates 44 lines of bars with 8 lengths per line.
See sheet 25 of 58 for Parapet Reinforcement.

MINIMUM BAR LAP

#5 bar = 2'-8"
#7 bar = 4'-2"



Indicates deck removal.
See Diamond Grinding and Surface Testing Bridge Sections Special Provisions.

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

NEAR PIER

CROSS SECTION
(Looking East)

NEAR MIDSPAN

SUPERSTRUCTURE (E.B.)
STRUCTURE NO. 025-0107

* See Diamond Grinding and Surface Testing Bridge Section Special Provision.

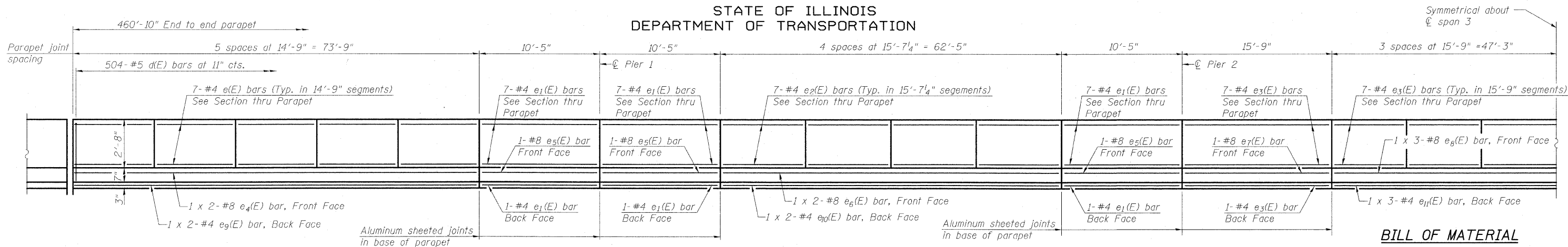


BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

3 Oak Drive
Maryville, IL 62062-9685
Local (618) 288-4985
Fax 618-288-4666

SHEET NO. 24 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	56
SN 025-0107			CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT 70			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

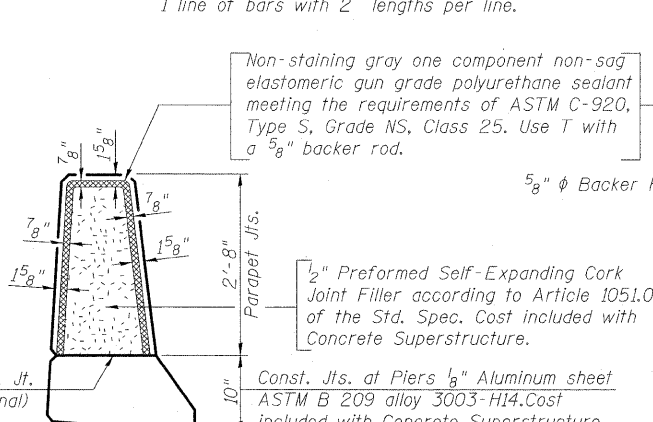


**BILL OF MATERIAL
SUPERSTRUCTURE (TWO STRUCTURES)**

Bar	No.	Size	Length	Shape
a(E)	2690	#5	18'-8"	—
a1(E)	2690	#5	27'-8"	—
a2(E)	3164	#6	6'-6"	—
a11(E)	60	#5	6'-0"	—
a12(E)	12	#6	4'-0"	—
a13(E)	4	#5	15'-9"	—
a14(E)	4	#5	24'-9"	—
b(E)	900	#5	53'-7"	—
b1(E)	360	#7	34'-0"	—
b2(E)	720	#7	32'-10"	—
b3(E)	840	#5	48'-6"	—
d(E)	2016	#5	6'-11"	⌒
d1(E)	2016	#5	6'-11"	⌒
e(E)	280	#4	14'-6"	—
e1(E)	192	#4	10'-2"	—
e2(E)	224	#4	15'-4"	—
e3(E)	232	#4	15'-6"	—
e4(E)	16	#8	38'-6"	—
e5(E)	24	#8	10'-2"	—
e6(E)	16	#8	32'-10"	—
e7(E)	8	#8	15'-6"	—
e8(E)	12	#8	33'-9"	—
e9(E)	16	#4	37'-5"	—
e10(E)	16	#4	31'-9"	—
e11(E)	12	#4	32'-4"	—
m(E)	400	#4	6'-0"	—
m1(E)	80	#4	1'-9"	—
m2(E)	80	#4	4'-0"	—
m3(E)	56	#8	6'-2"	—
m4(E)	80	#6	4'-3"	—
m5(E)	16	#6	0'-10"	—
m6(E)	16	#6	3'-1"	—
s(E)	192	#4	16'-1"	U
x(E)	96	#5	7'-4"	—
Reinforcement Bars, Epoxy Coated		Pound	377780	
Concrete Superstructure		Cu. Yds.	1674.6	
Bar Splicers		Each	2714	

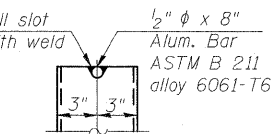
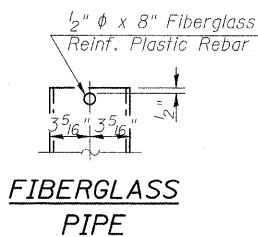
INSIDE ELEVATION OF PARAPET

Bars indicated thus 1 x 2 -#4 etc. indicates 1 line of bars with 2 lengths per line.



PARAPET JOINT DETAILS

Notes:
Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
The exterior surfaces of the floor drains shall be coated or pigmented by the manufacturer with a color that matches the concrete.
The clamping device and inserts shall be galvanized according to AASHTO M 232.
Set top of pipe drain 1/4" min. below top of finished deck prior to Diamond Grinding and Surface Testing Bridge Sections Special Provisions.
The remaining 1/4" deck around the drains shall be sloped and formed to drain, see Top Plan view.

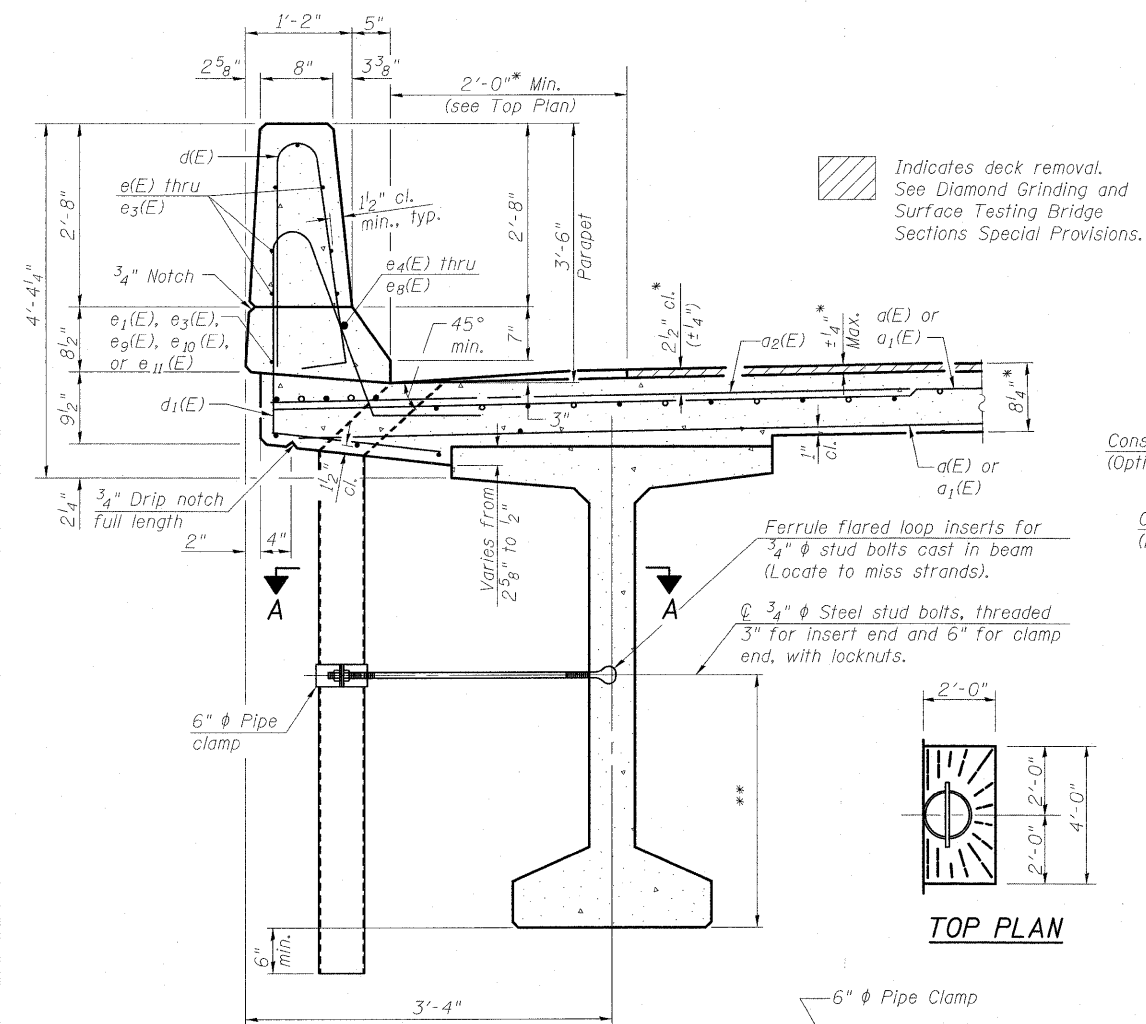


ALUMINUM TUBE

TOP PLAN
(Showing Aluminum Tube)

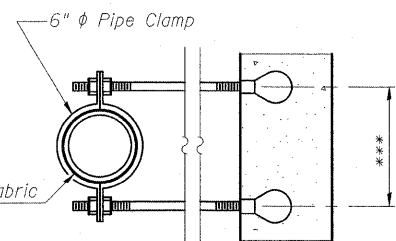
MINIMUM BAR LAP

(Parapet)
#4 bar = 1'-4"
#8 bar = 3'-5"



SECTION THRU PARAPET

* See Diamond Grinding and Surface Testing Bridge Sections Special Provision.
** For insert locations See sheets 35 thru 37 of 58.



SECTION A-A

***Dimension as required by Pipe Clamp

TOP PLAN

**SUPERSTRUCTURE DETAIL
S.N. 028-0107 & 025-0108**

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.


SHEET NO. 25 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	57
SN 025-0107 & 025-0108		CONTRACT NO. 74296			
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

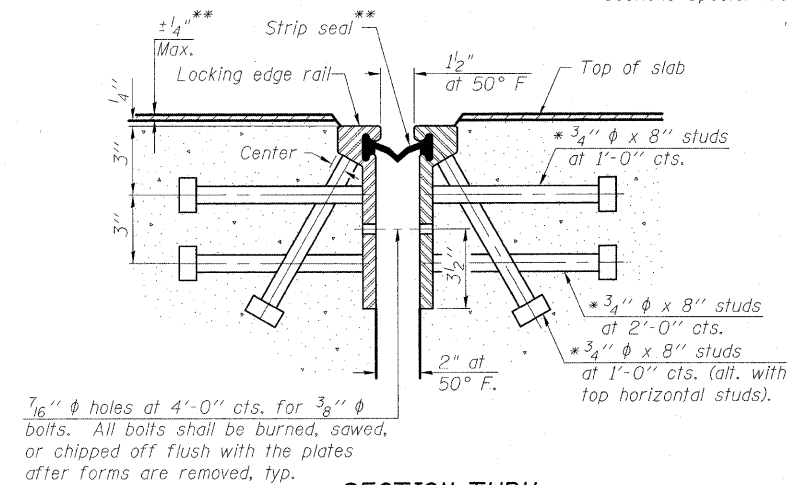
**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62442-5685
Local (618) 288-4065
Fax 618-288-6666

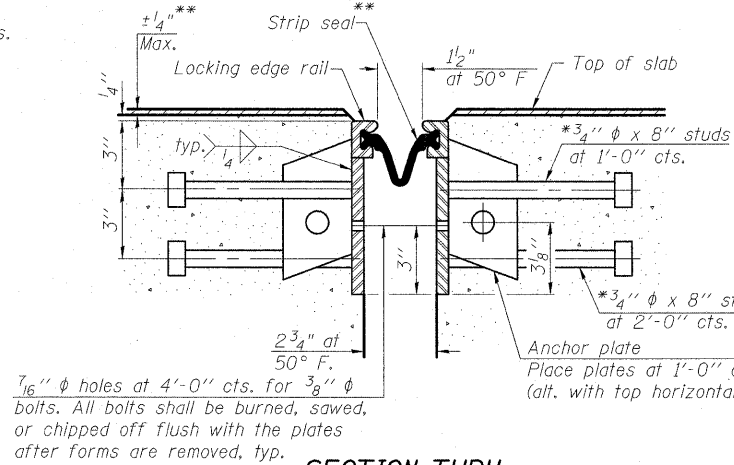
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.
** For Strip Seal Placement see Diamond Grinding and Surface Testing Bridge Sections Special Provision.

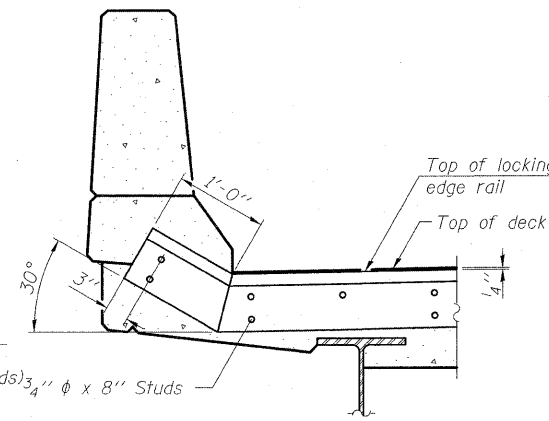
 Indicates deck removal. See Diamond Grinding and Surface Testing Bridge Sections Special Provisions.



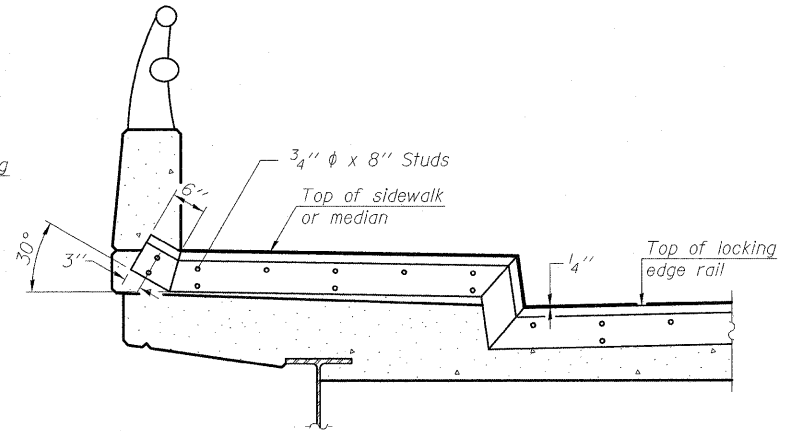
SECTION THRU ROLLED RAIL JOINT



SECTION THRU WELDED RAIL JOINT



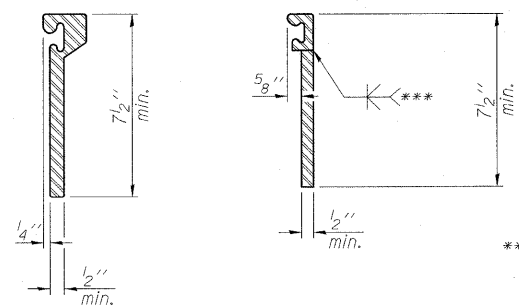
AT PARAPET
See Section A-A for end treatment of skews > 30°.



AT SIDEWALK OR MEDIAN
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

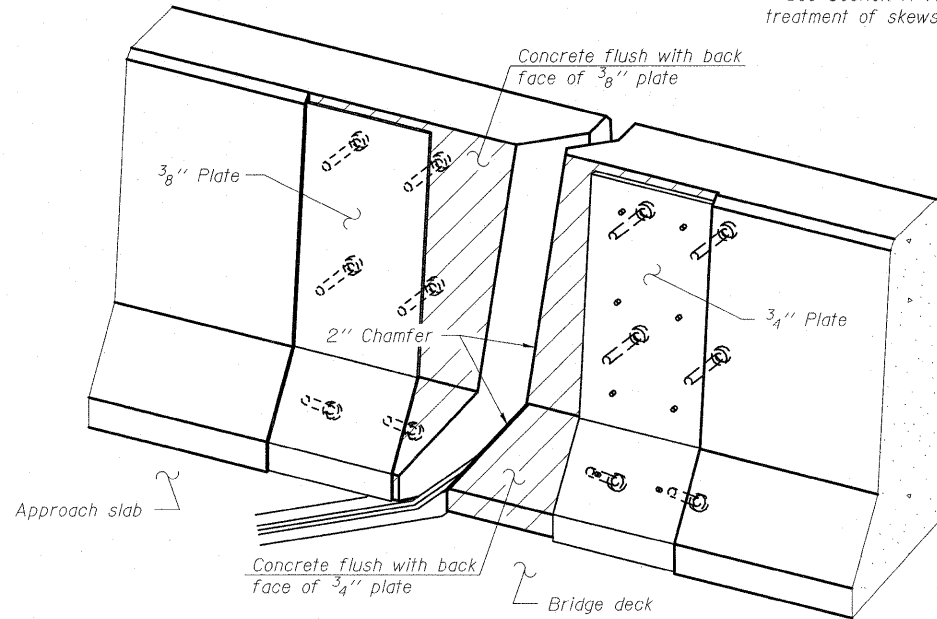
TYPICAL END TREATMENTS

Notes:
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.
The manufacturer's recommended installation methods shall be followed.
The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant.



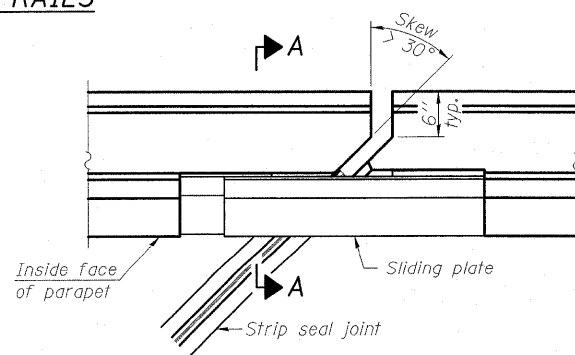
ROLLED EXTRUDED RAIL **WELDED RAIL**

LOCKING EDGE RAIL SPLICE
The inside of the locking edge rail groove shall be free of weld residue.
Rolled rail shown, welded rail similar.

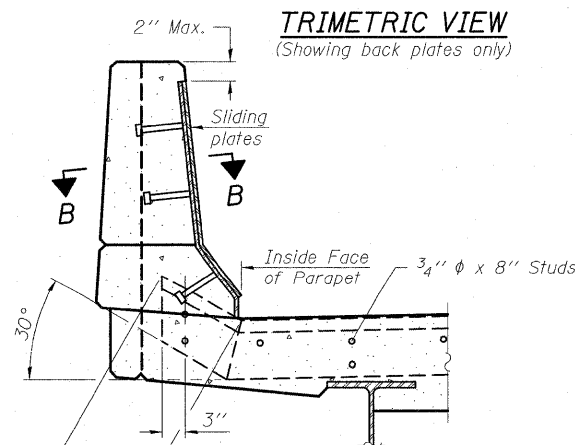


TRIMETRIC VIEW
(Showing back plates only)

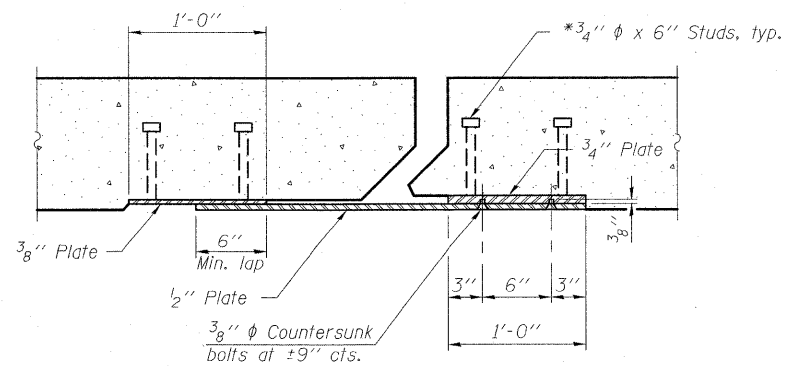
LOCKING EDGE RAILS



PLAN



SECTION A-A



SECTION B-B

POINT BLOCK DETAILS
(for skews > 30°)



BERNARDIN LOCHMUELLER & ASSOCIATES, INC.

3 Oak Drive
Maryville, IL 62062-5685
Local (618) 288-4665
Fax 618-288-4666

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	184

PREFORMED JOINT STRIP SEAL
S.N. 025-0107 & 025-0108

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

SHEET NO. 26 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	58
SN 025-0107 & 025-0108		CONTRACT NO. 74296			
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

This Sheet was intentionally left Blank.

S.N. 025-0107 & 025-0108

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

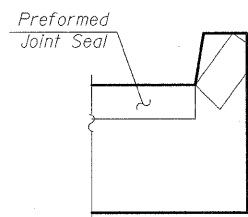
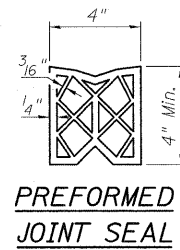
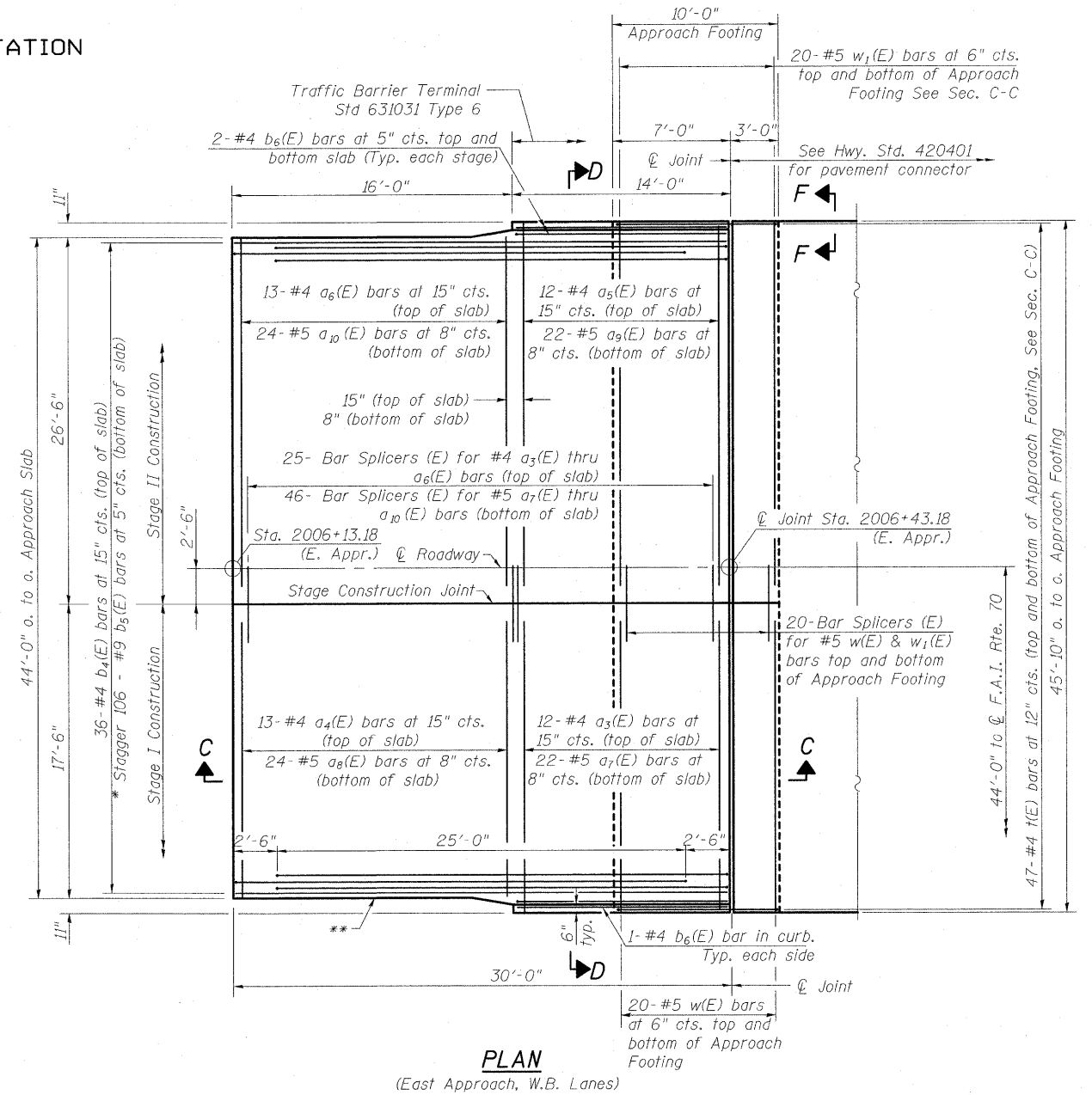
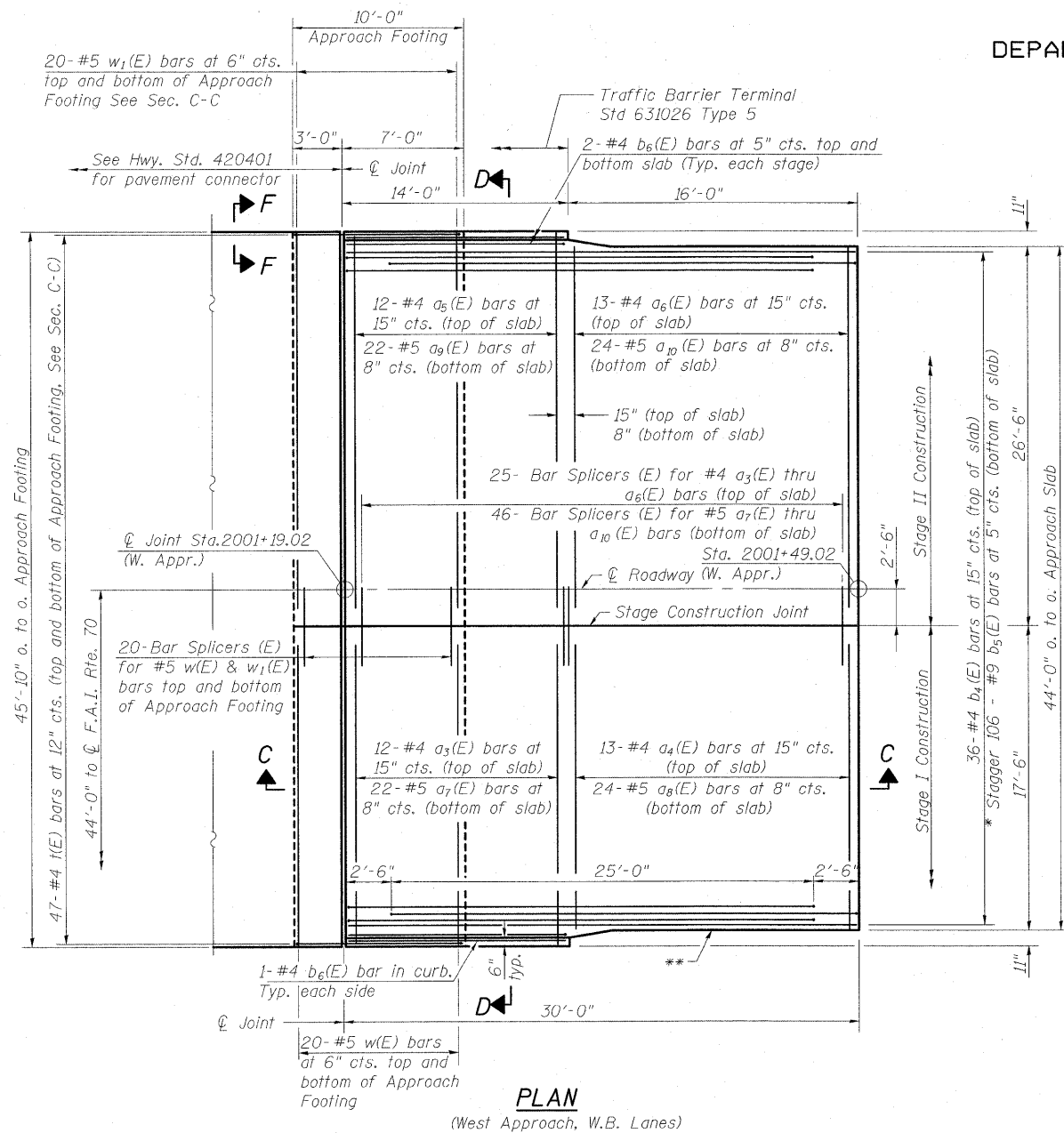


**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62052-5635
Local (618) 288-4665
Fax 618-288-4666

SHEET NO. 27	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	59
58 SHEETS	SN 025-0107 & 025-0108		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



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



BERNARDIN LOCHMUELLER & ASSOCIATES, INC.

3 Oak Drive
Maryville, IL 62062-6655
Local (618) 298-4665
Fax 618-298-4666

Notes:

See sheet 30 of 58 for Sections C-C & D-D.
See sheets 42 and 43 of 58 for Parapet Details.

* Tilt #9 b₅(E) bars as required to maintain clearance.

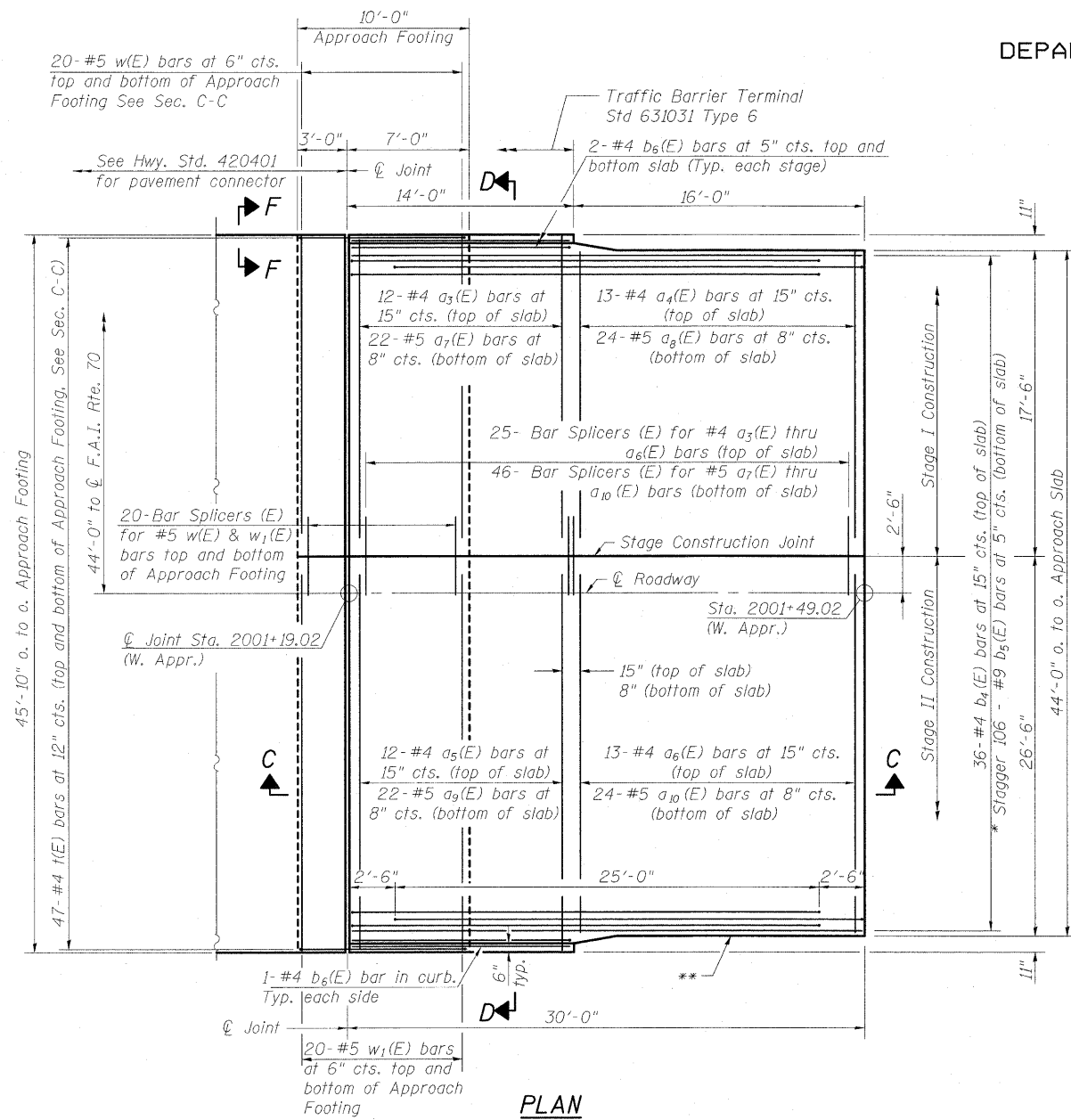
** Closed cell joint filler according to Article 1051.08 of the Std. Specifications: full depth of slab, full length of parapet. Typ. each parapet.

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

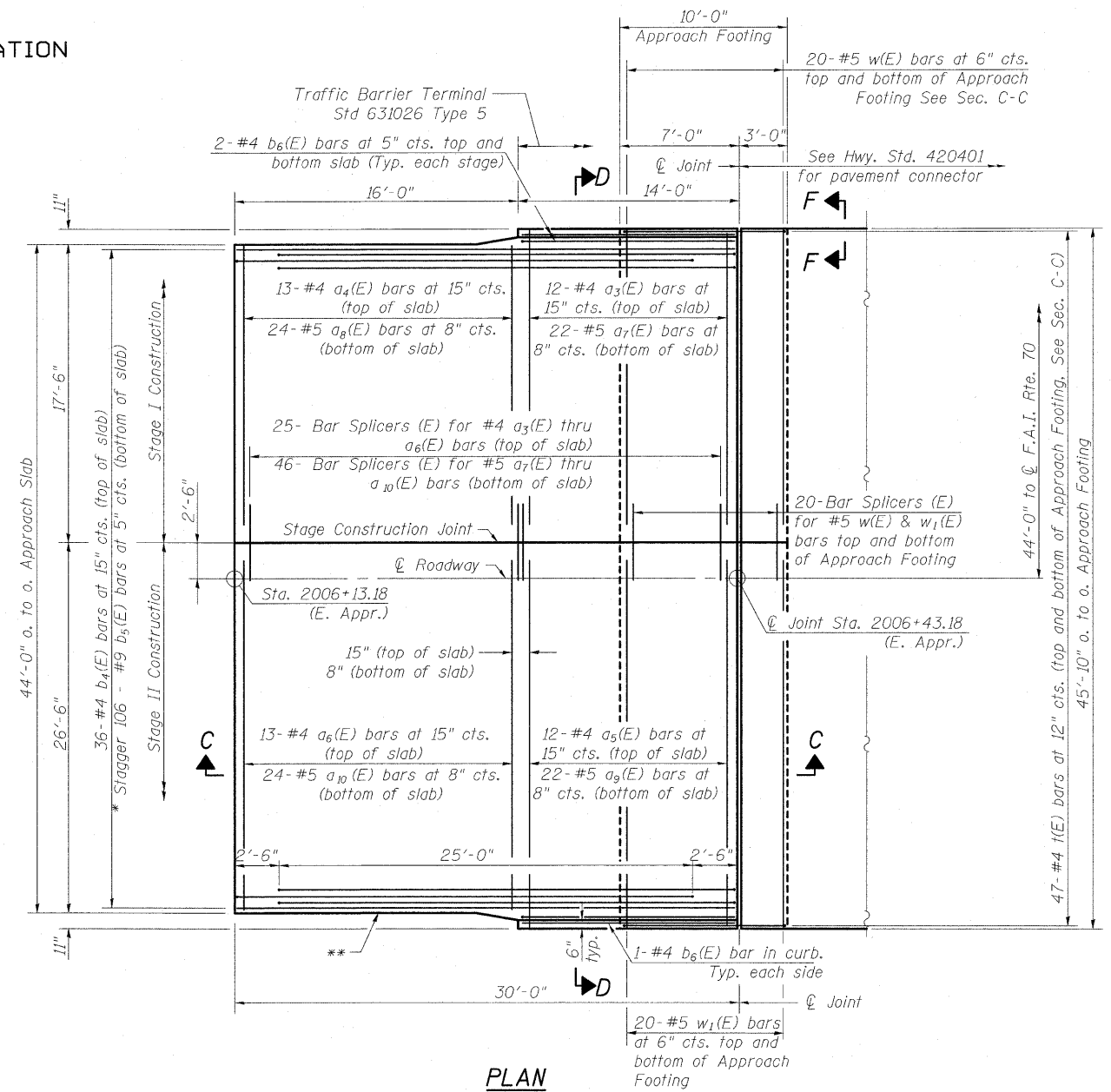
SHEET NO. 28 58 SHEETS	F.A.I. RTE. 70	SECTION (25-3)B	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 60
	SN 025-0108		CONTRACT NO. 94991		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

**BRIDGE APPROACH SLAB (W.B.)
STRUCTURE NO. 025-0108**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PLAN
(West Approach, E.B. Lanes)



PLAN
(East Approach, E.B. Lanes)

Notes:
See sheets 28 of 58 for View F-F
See sheet 30 of 58 for Sections C-C & D-D.
See sheets 42 and 43 of 58 for Parapet Details.

* Tilt #9 b5(E) bars as required to maintain clearance.

** Closed cell joint filler according to Article 1051.08 of the Std. Specifications: full depth of slab, full length of parapet. Typ. each parapet.

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.



**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62062-5635
Local (618) 288-4655
Fax 618-288-4656

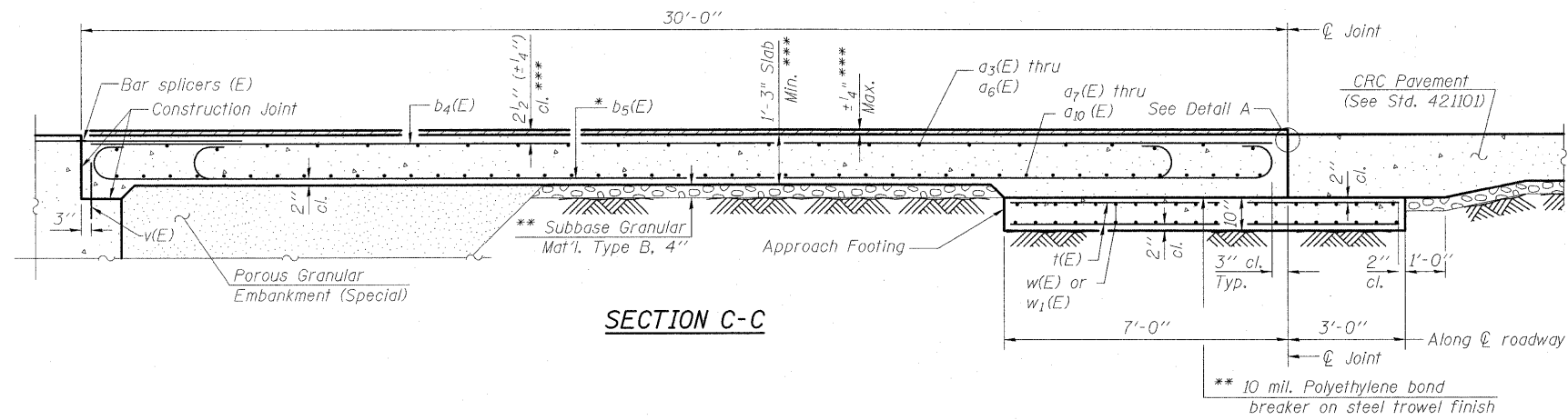
SHEET NO. 29 58 SHEETS	F.A.I. RTE. 70	SECTION (25-3)B	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 61
	SN 025-0107		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

**BRIDGE APPROACH SLAB (E.B.)
STRUCTURE NO. 025-0107**

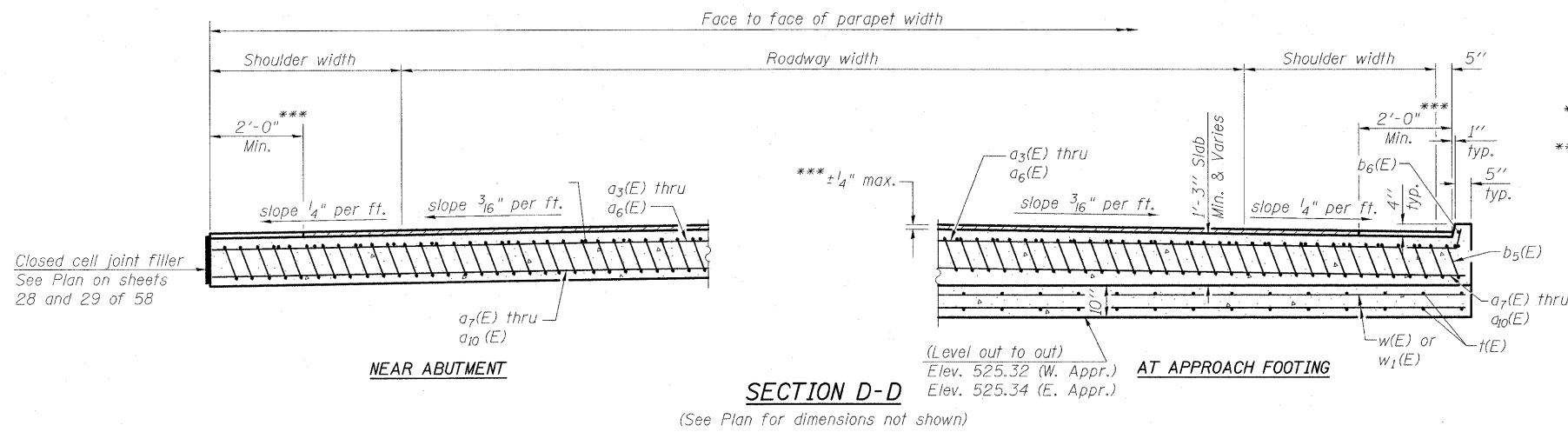
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Notes:

Approach slab 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 40 of 58.
The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
For bar splicer details, see sheet 49 of 58.
Cost of excavation for approach footing included with Concrete Structures.
For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 58.

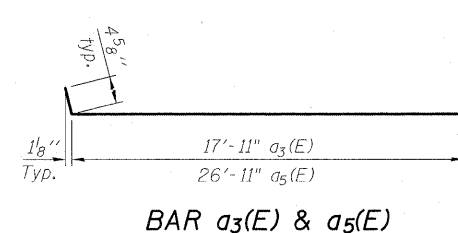


Indicates deck removal.
See Diamond Grinding and
Surface Testing Bridge
Sections Special Provisions.

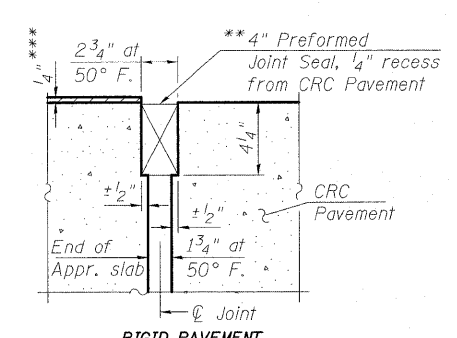


FOUR APPROACHES
BILL OF MATERIAL

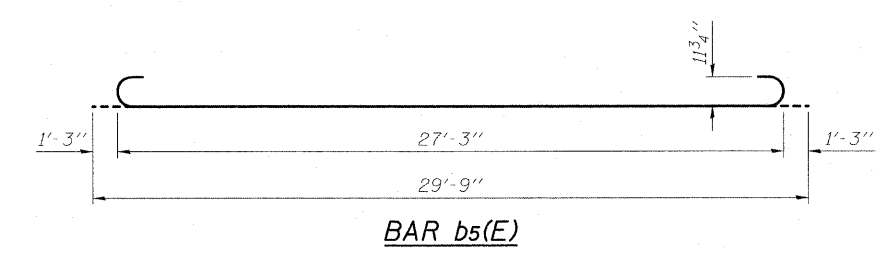
Bar	No.	Size	Length	Shape
a ₃ (E)	48	#4	18'-4"	—
a ₄ (E)	52	#4	17'-3"	—
a ₅ (E)	48	#4	27'-4"	—
a ₆ (E)	52	#4	26'-3"	—
a ₇ (E)	88	#5	18'-2"	—
a ₈ (E)	96	#5	17'-3"	—
a ₉ (E)	88	#5	27'-2"	—
a ₁₀ (E)	96	#5	26'-3"	—
b ₄ (E)	144	#4	29'-8"	—
b ₅ (E)	424	#9	29'-9"	—
b ₆ (E)	8	#4	13'-9"	—
t(E)	376	#4	9'-8"	—
w(E)	160	#5	18'-1"	—
w ₁ (E)	160	#5	27'-1"	—
Concrete Superstructure		Cu. Yd.	270.1	
Concrete Structures		Cu. Yd.	56.6	
Reinforcement Bars, Epoxy Coated		Pound	67280	
Bar Splicers		Each	444	



BAR a₃(E) & a₅(E)



DETAIL A



BAR b₅(E)

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

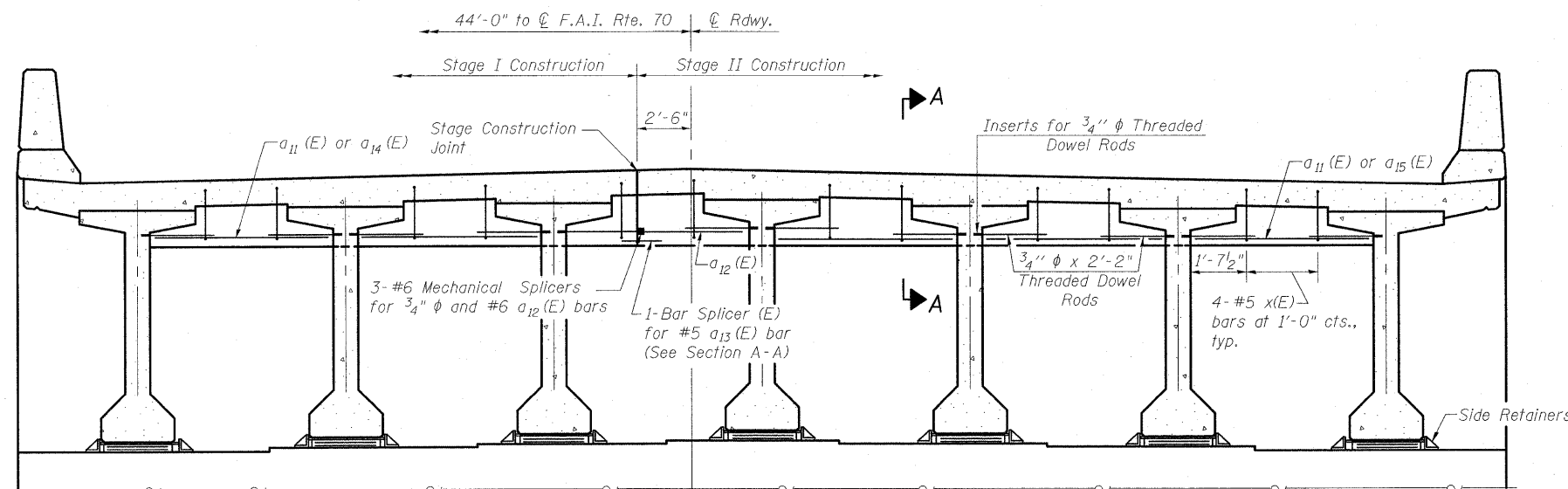
BRIDGE APPROACH SLAB DETAILS
S.N. 025-0107 & 025-0108

**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62962-5635
Local (618) 288-4666
Fax 618-386-4996

SHEET NO. 30 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	62
SN 025-0107 & 025-0108			CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

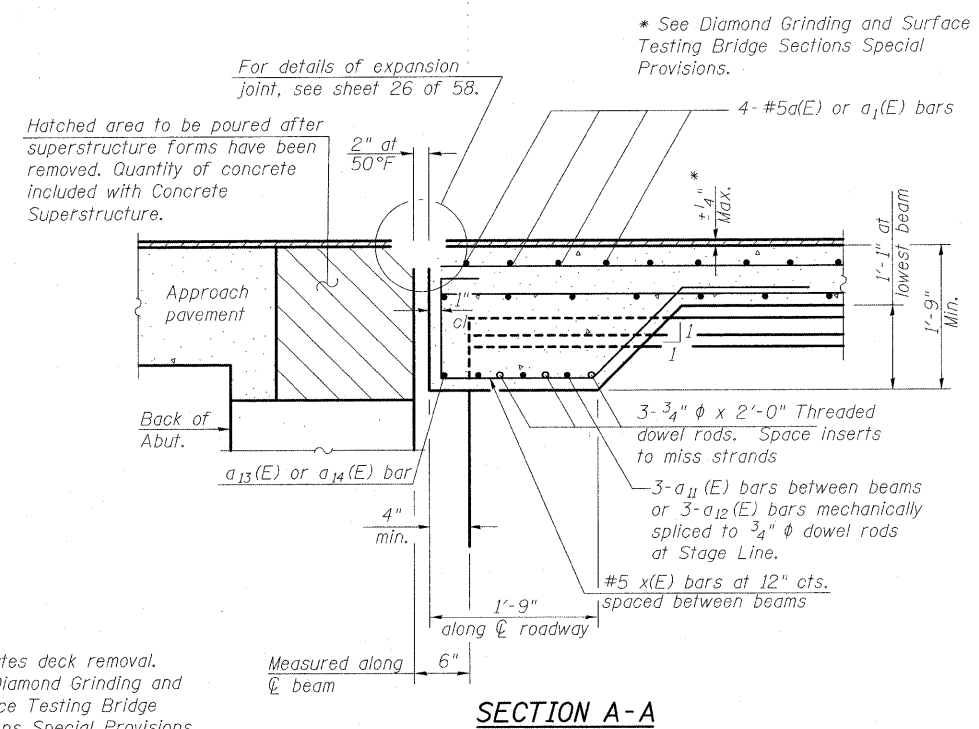
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



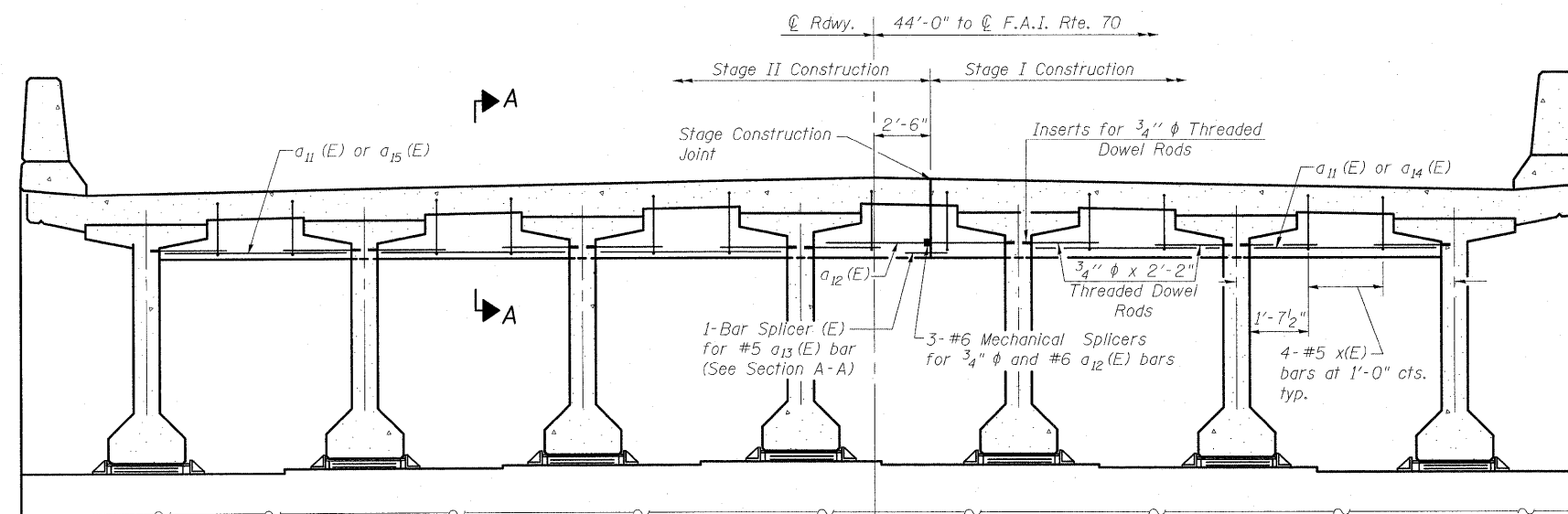
DIAPHRAGM

(W. Abut. - W.B. Rdwy. - Looking West)
(E. Abut. - E.B. Rdwy. - Looking East)

Indicates deck removal. See Diamond Grinding and Surface Testing Bridge Sections Special Provisions.

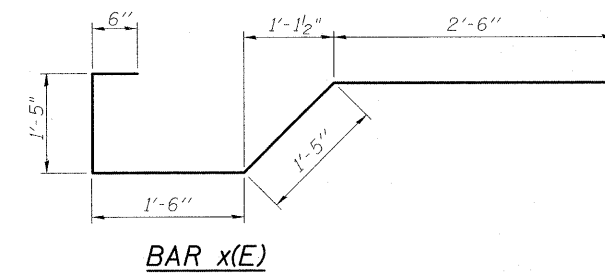


SECTION A-A



DIAPHRAGM

(E. Abut. - W.B. Rdwy. - Looking East)
(W. Abut. - E.B. Rdwy. - Looking West)



BAR x(E)

Notes:
Reinforcement bars in diaphragm are billed with superstructure on sheet 25 of 58.
Concrete in diaphragm is included with Concrete Superstructure on sheet 25 of 58.
For Side Retainer and Anchor details see sheet 39 of 58.

**ABUTMENT DIAPHRAGM DETAILS
STRUCTURE NO. 025-0107 & 025-0108**

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

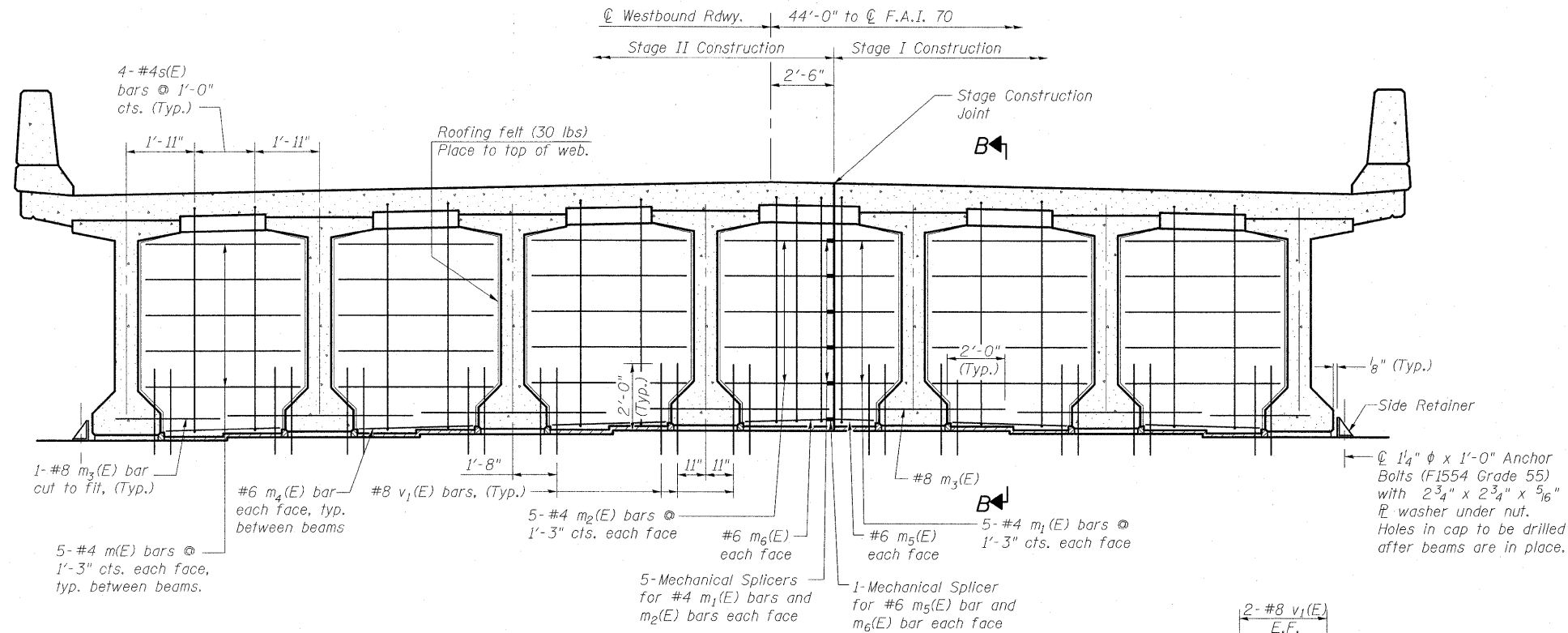
**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62462-5655
Local (618) 288-4955
Fax 618-288-4966

SHEET NO. 31	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	25-3BR	EFFINGHAM	1416	63
58 SHEETS	SN 025-0107 & 025-0108		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

11/22/02 AM 4/29/2000 10:25:00 9499-031.dgn

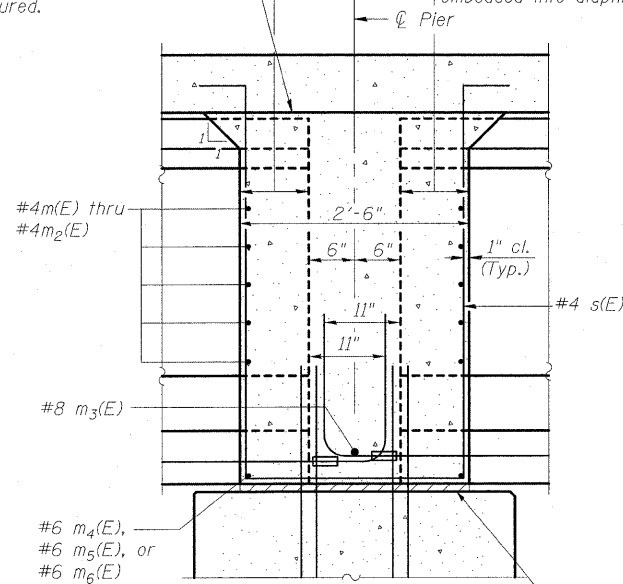
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



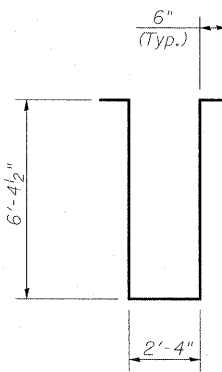
ELEVATION
DIAPHRAGM AT PIER
(Westbound looking East)

Pour diaphragm flush with bott. of slab. Concrete in slab above this line shall be placed not less than 45 min. nor more than 90 min. after diaphragm has been poured.

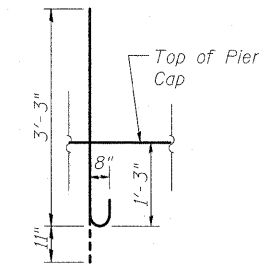
Roofing felt (30 lbs) shall be bonded to side of beam embedded into diaphragm.



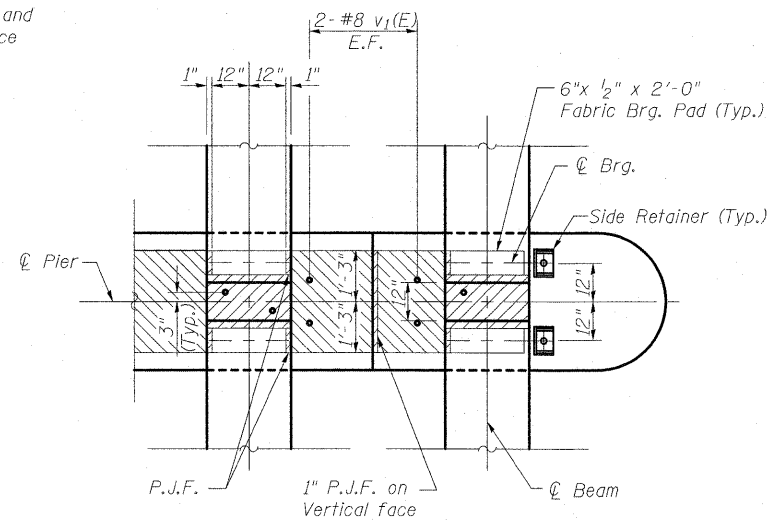
SECTION B-B
AT PIER



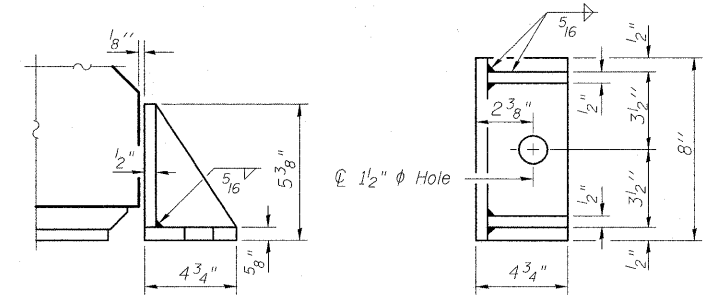
BAR s(E)



BAR v₁(E)



PLAN
DIAPHRAGM AT PIER



SIDE RETAINER AT PIER DIAPHRAGM

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.
The side retainer shall be galvanized after shop fabrication according to AASHTO M111 and ASTM A 385.
Cost of side retainers and anchor bolts shall be included with Concrete Structures.

PIER DIAPHRAGM DETAILS (W.B.)
STRUCTURE NO. 025-0108

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

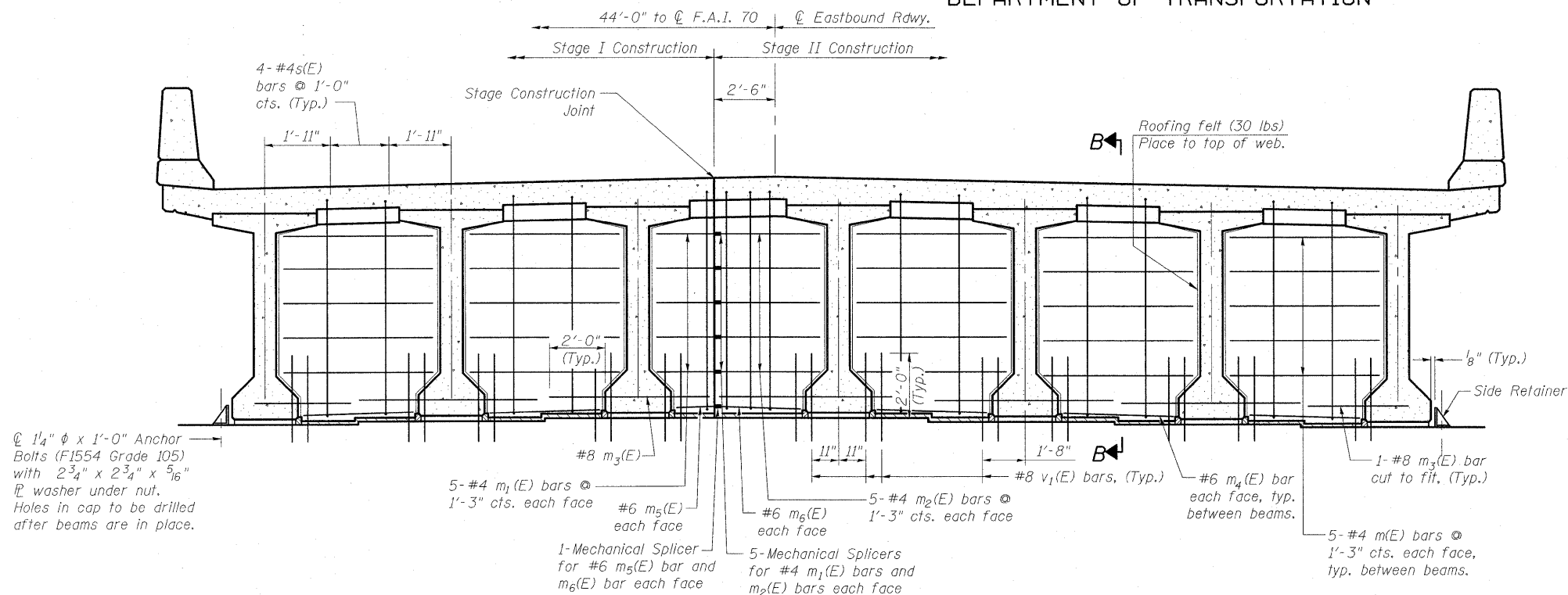


BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

3 Oak Drive
Maryville, IL 62962-2685
Local (618) 298-4665
Fax 618-298-4666

SHEET NO. 32	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	64
58 SHEETS	SN 025-0108		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 70		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION
DIAPHRAGM AT PIER

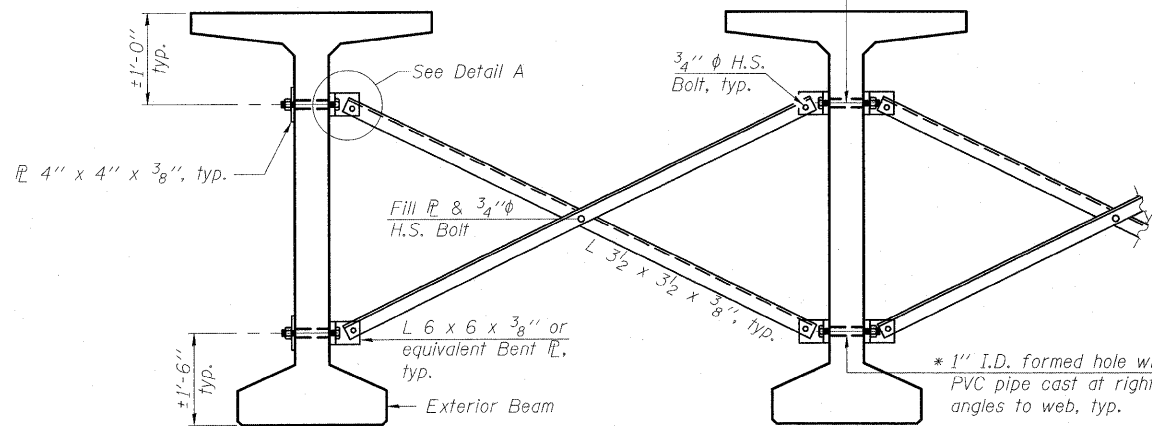
(Eastbound looking East)

Notes:
Reinforcement bars in diaphragm are billed with superstructure on sheet 25 of 58.
Concrete in diaphragm is included with Concrete Superstructure on sheet 25 of 58.
Cost of 30 Lb. roofing felt is included with Concrete Superstructure.
The side retainer shall be galvanized after shop fabrication according to AASHTO M11 and ASTM A 385. Cost of side retainers and anchor bolts shall be included with Concrete Structures.
For Section B-B, see sheet 32 of 58.
See sheet 39 of 58 for Side Retainer details.
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 $\frac{15}{16}$ " ϕ unless otherwise noted.
 $\frac{5}{16}$ " x 3" x 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.
For v₁(E) bars see sheet 44 of 58.
For s(E) bars see sheet 32 of 58.
Cost of Permanent Bracing shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams.
The Anchor Bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade Anchor Bolts will not be allowed.

ϕ 1/4" ϕ x 1'-0" Anchor Bolts (F1554 Grade 105) with 2 3/4" x 2 3/4" x 5/16" ϕ washer under nut. Holes in cap to be drilled after beams are in place.

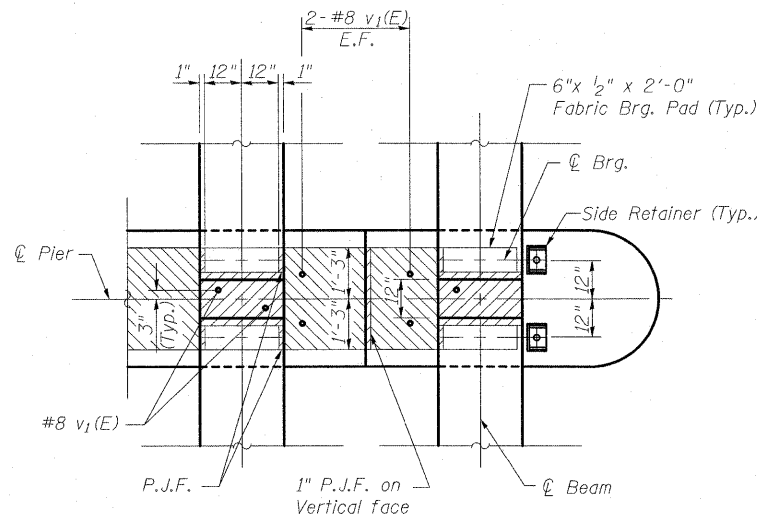
* Fabricator shall locate to miss strands within permissible tolerances.

3/4" ϕ A307 Bolts with lock nuts., typ. Bolts through the concrete web shall be tightened to snug tight only.

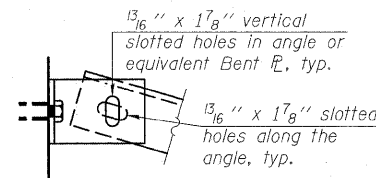


PERMANENT BRACING DETAILS
FOR BULB-T BEAMS
DIAPHRAGM D

(see sheet 34 of 58 for location)



PLAN
DIAPHRAGM AT PIER



DETAIL A

PIER DIAPHRAGM DETAILS (E.B.)
STRUCTURE NO. 025-0107

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

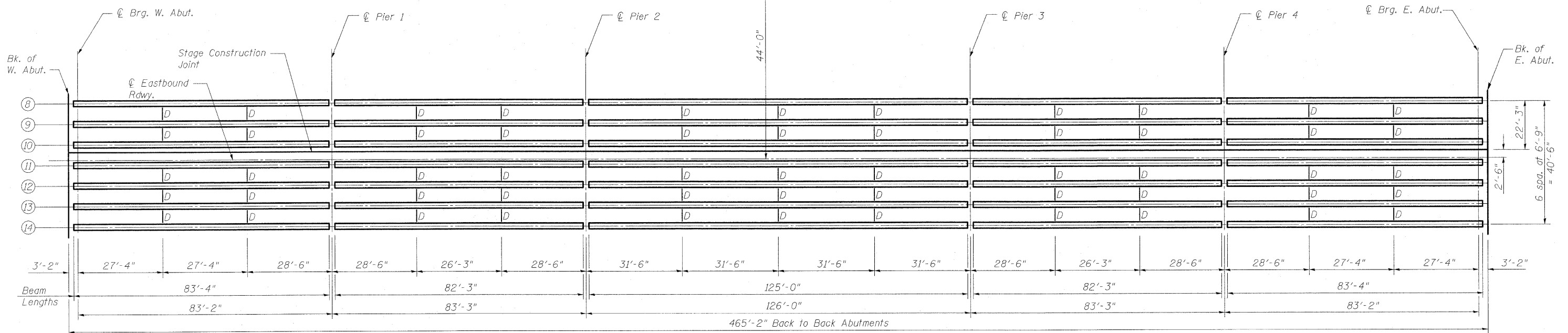
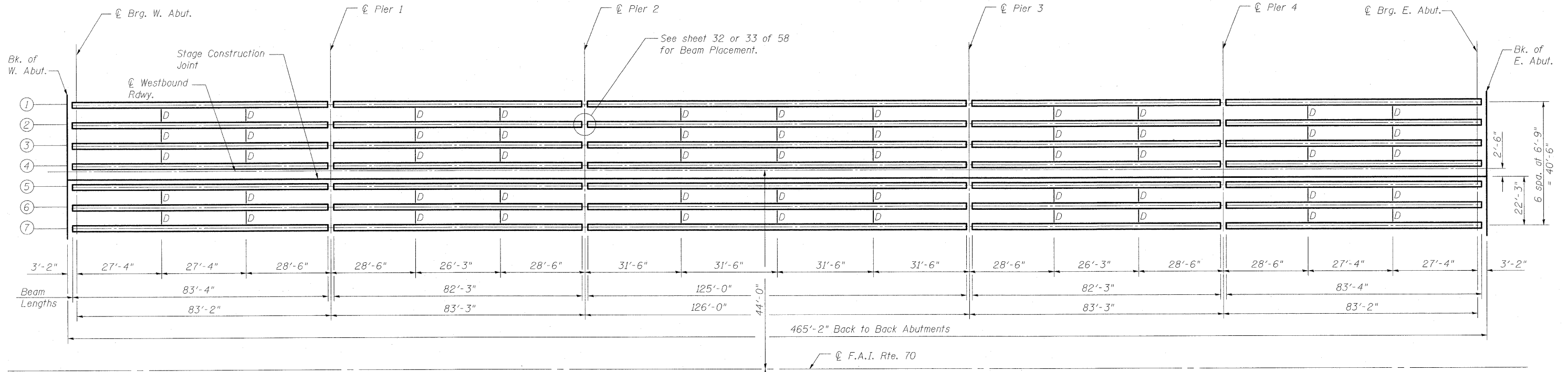


BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

3 Oak Drive
Maryville, IL 62422-5635
Local (618) 288-4955
Fax 618-288-4666

SHEET NO. 33	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	65
58 SHEETS	SN 025-0107		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT 70			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

See sheet 33 of 58 for Diaphragm D Details.

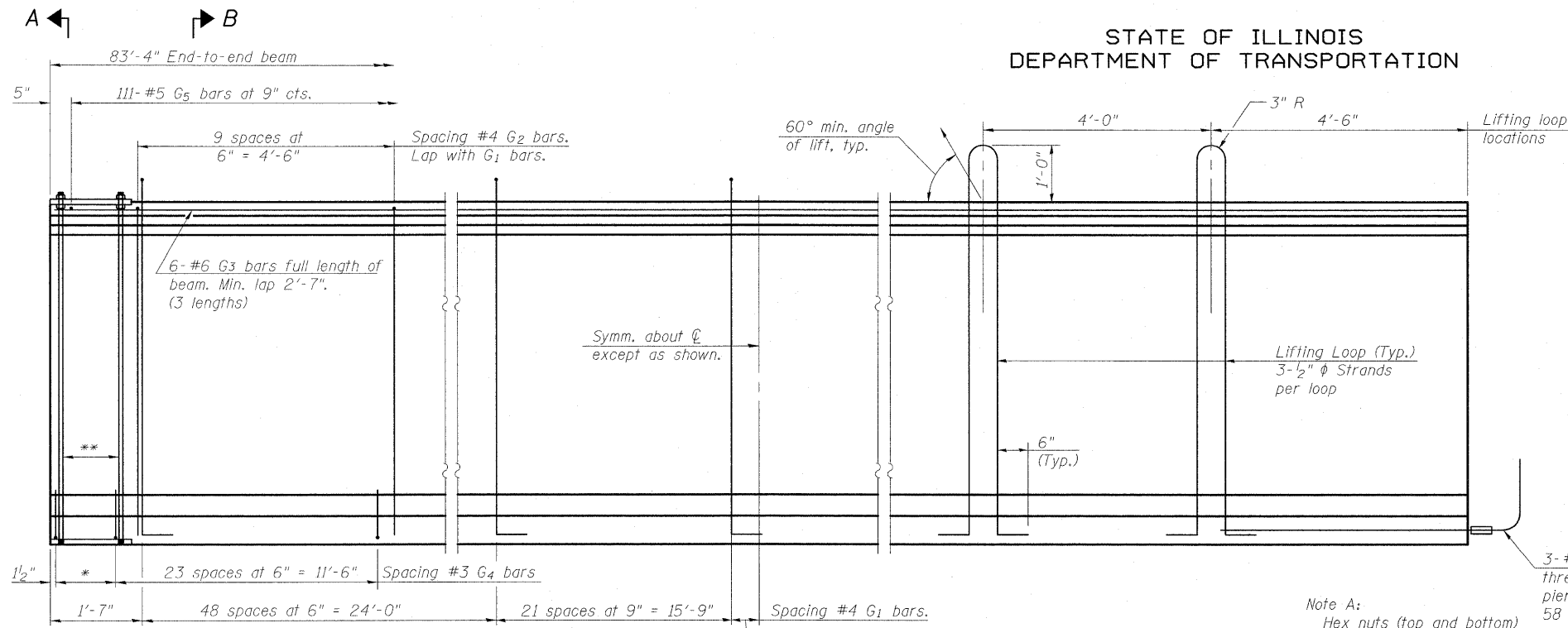
FRAMING PLAN
S.N. 025-0107 & 025-0108

BERNARDIN LOCHMUELLER & ASSOCIATES, INC.
3 Oak Drive
Maryville, IL 62962-5635
Local: 618-298-4656
Fax: 618-298-4666

SHEET NO. 34 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	66
SN 025-0107 & 025-0108			CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

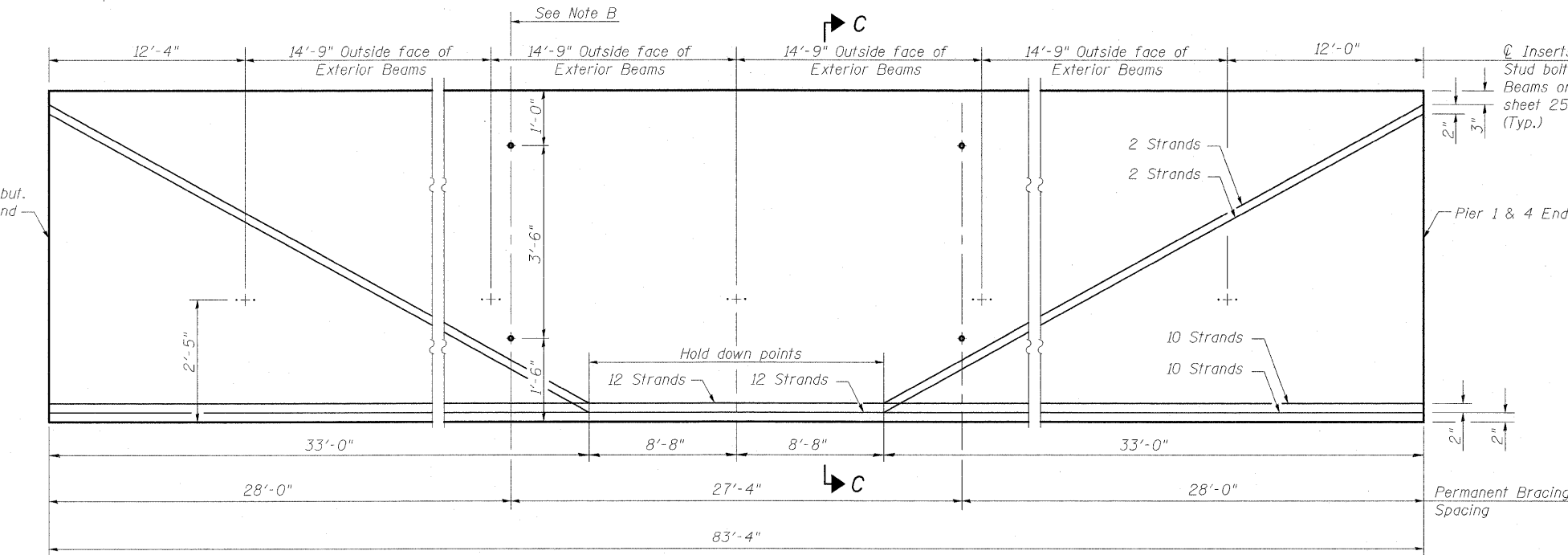
24226 PM 3/19/2000 025007-9499-034.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



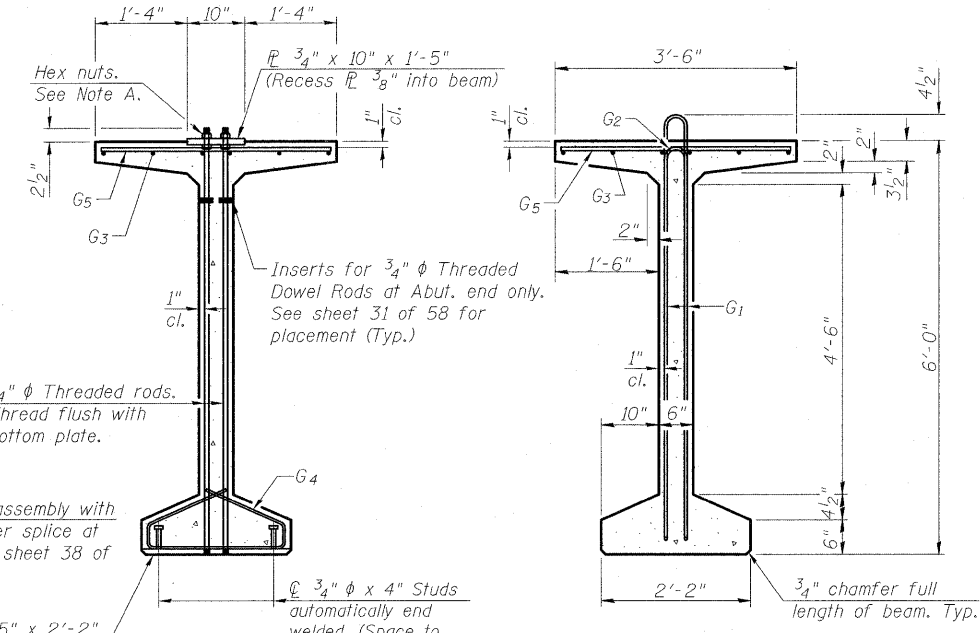
ELEVATION OF BEAM
(Showing reinforcement & dimensions)

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



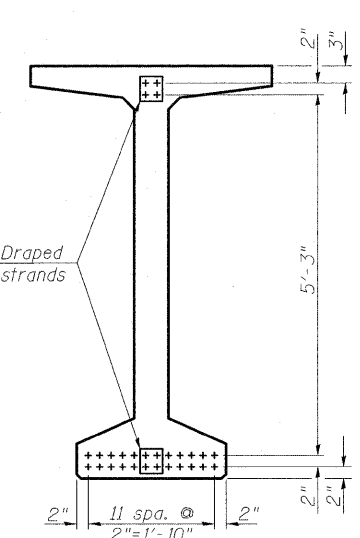
ELEVATION OF BEAM
(Showing prestressing steel)

Note B:
1" I.D. formed holes with PVC pipe cast at right angles to web. Locate to miss strands. See sheet 33 of 58 for details of Permanent Bracing.



SECTION A-A

SECTION B-B



SECTION C-C

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

Bar	No.	Size	Length	Shape
G ₁	140	#4	13'-5"	∩L
G ₂	20	#4	11'-8"	∩
G ₃	18	#6	29'-6"	—
G ₄	56	#3	4'-11"	∩
G ₅	111	#5	3'-4"	—
G ₆	3	#8	6'-6"	U

***For information only
Notes:
See sheet 38 of 58 for additional details and Bill of Material.
Required release strength, f'ci, shall be 5,000 psi.

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

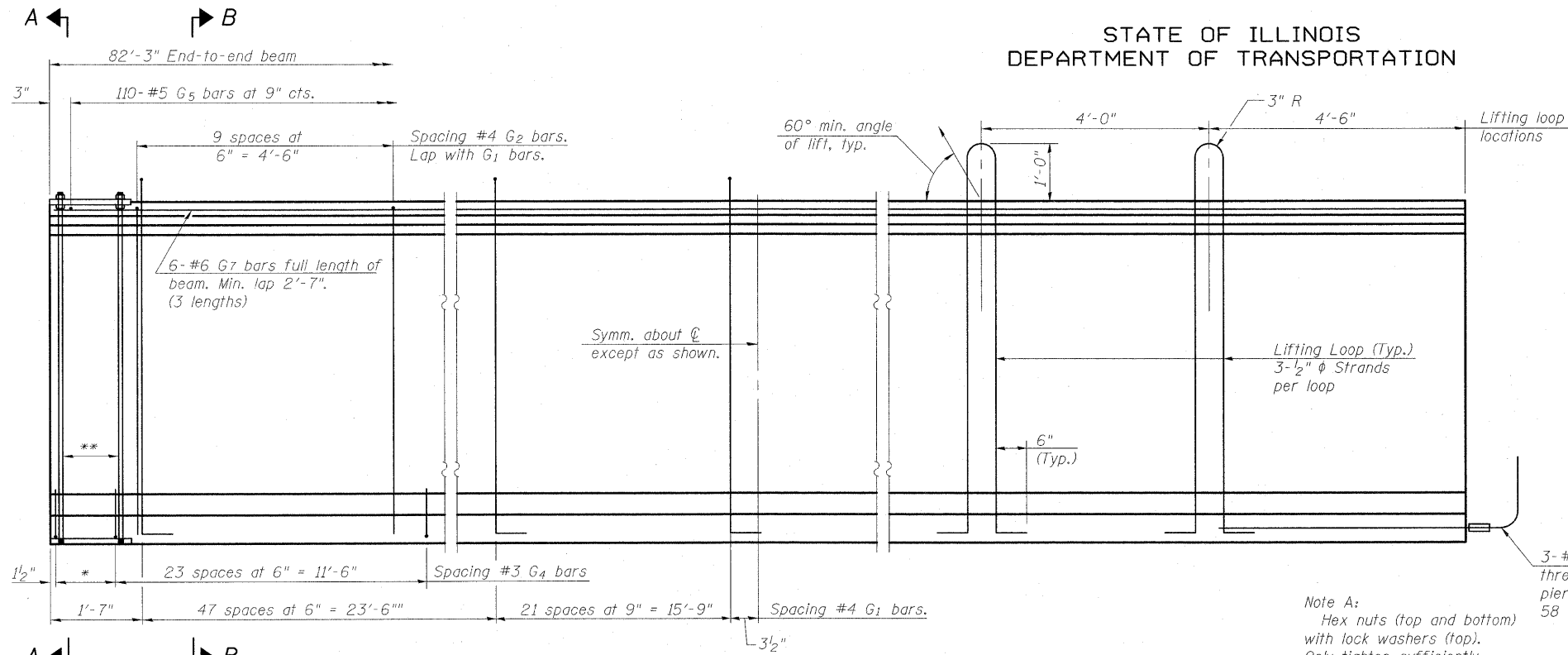
BERNARDIN LOCHMUELLER & ASSOCIATES, INC.
3 Oak Drive
Maryville, IL 62462-5685
Local (618) 288-4665
Fax 618-288-4666

SHEET NO. 35 58 SHEETS	F.A.I. RTE. 70	SECTION (25-3)B	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 67
	SN 025-0107 & 025-0108		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

**72" PPC BULB T-BEAM
Span 1 & 5
S.N. 025-0107 & 025-0108**

2/12/27 PM 3/19/2000 10250107-9991-035.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION OF BEAM
(Showing reinforcement & dimensions)

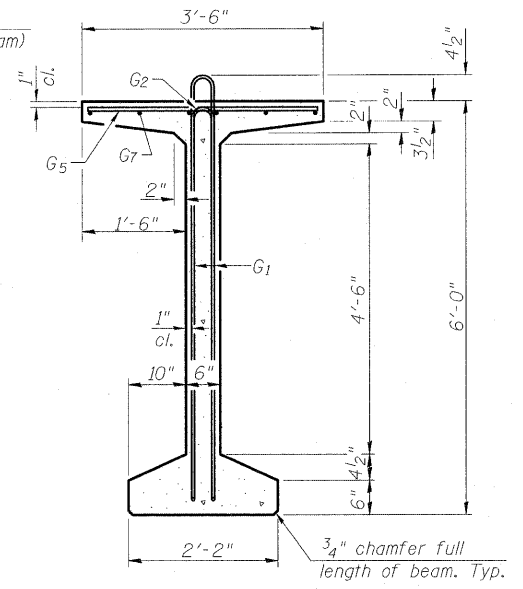
* 4 spaces at 3/4" = 1'-1".
** 5-3/4" ϕ threaded dowel rods at 3/4" cts., each face.

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

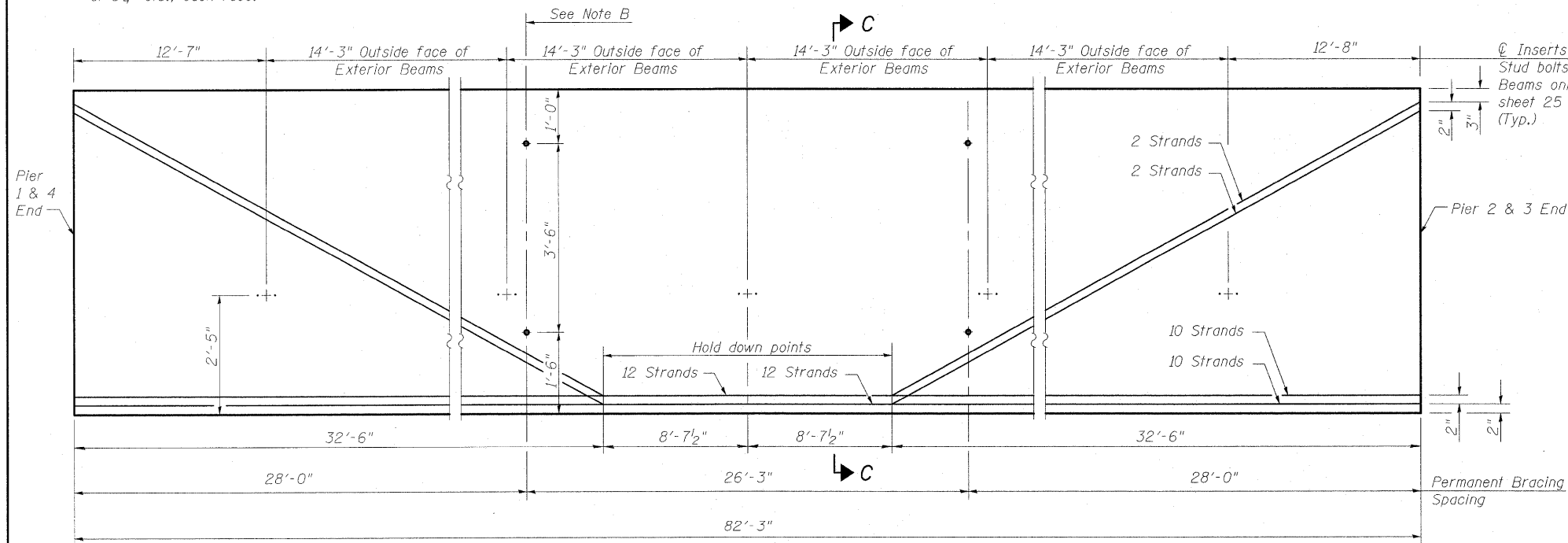
3-#8 G6 bar assembly with threaded coupler splice at pier only. (See sheet 38 of 58 for details).

1" x 1'-5" x 2'-2" (Bevel to match chamfer).

SECTION A-A

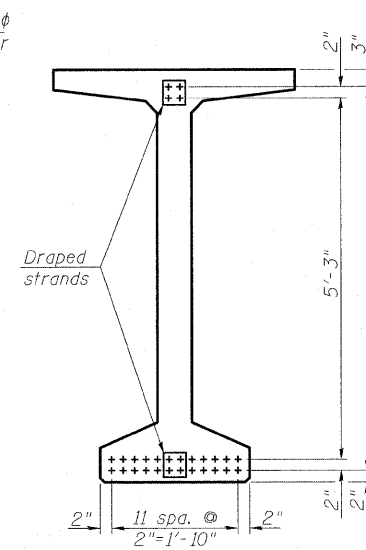


SECTION B-B



ELEVATION OF BEAM
(Showing prestressing steel)

Note B:
1" I.D. formed holes with PVC pipe cast at right angles to web. Locate to miss strands. See sheet 33 of 58 for details of Permanent Bracing.



SECTION C-C

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

Bar	No.	Size	Length	Shape
G1	138	#4	13'-5"	∩L
G2	20	#4	11'-8"	∩
G4	56	#3	4'-11"	∩
G5	110	#5	3'-4"	∩
G6	6	#8	6'-6"	∩
G7	18	#6	29'-3"	∩

***For information only

Notes:
See sheet 38 of 58 for additional details and Bill of Material.
Required release strength, f'ci, shall be 5,000 psi.

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.



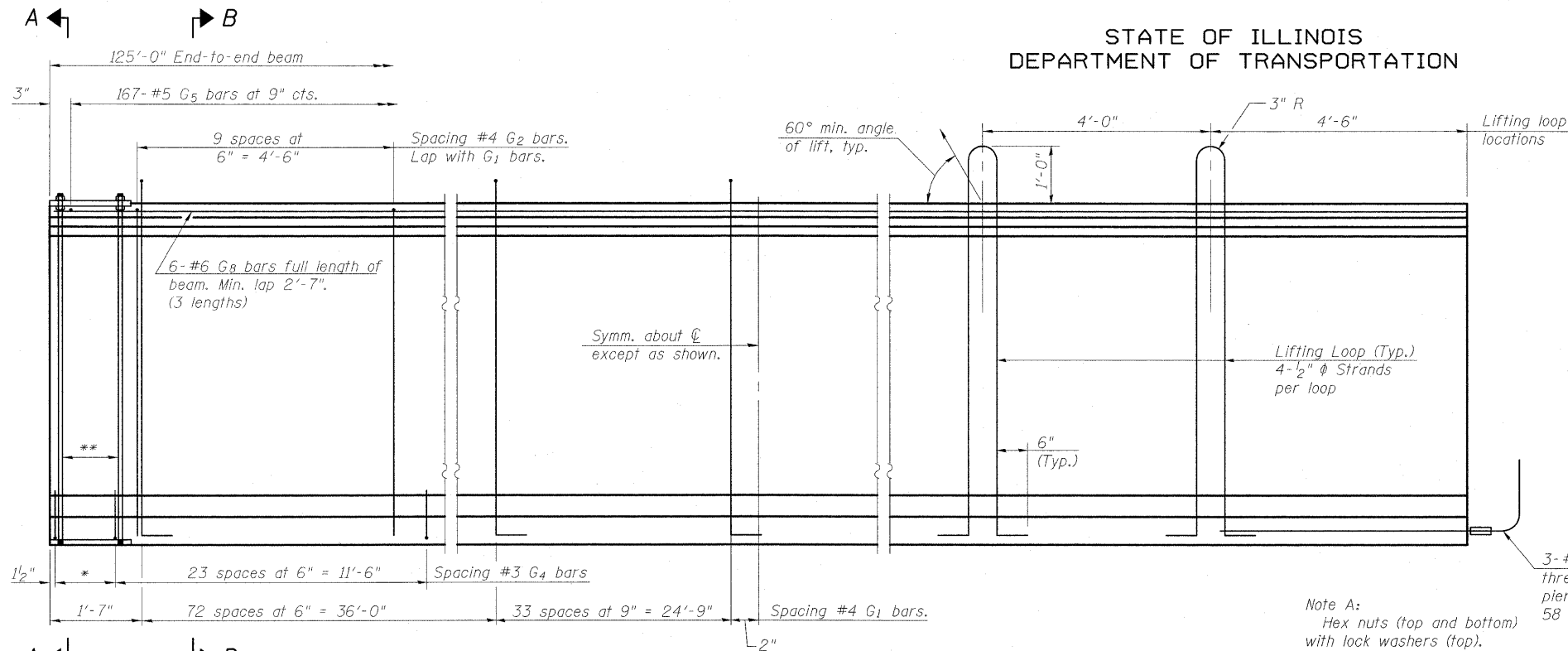
**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62983-5635
Local (618) 288-4665
Fax 618-288-4666

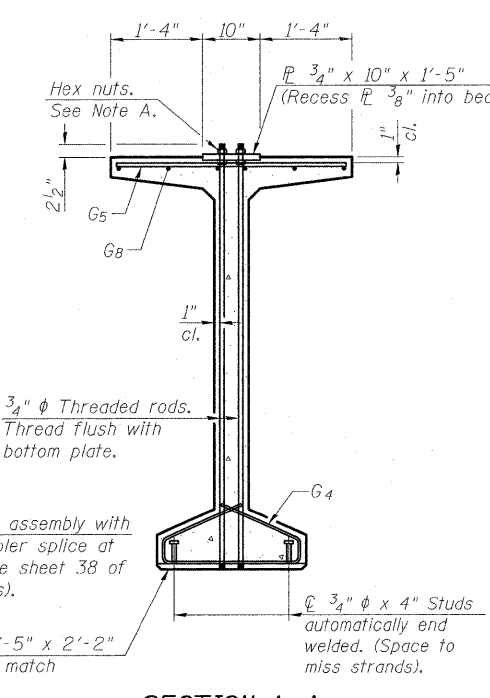
SHEET NO. 36 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	68
SN 025-0107 & 025-0108			CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7			ILLINOIS FED. AID PROJECT 70		

72" PPC BULB T-BEAM
Span 2 & 4
S.N. 025-0107 & 025-0108

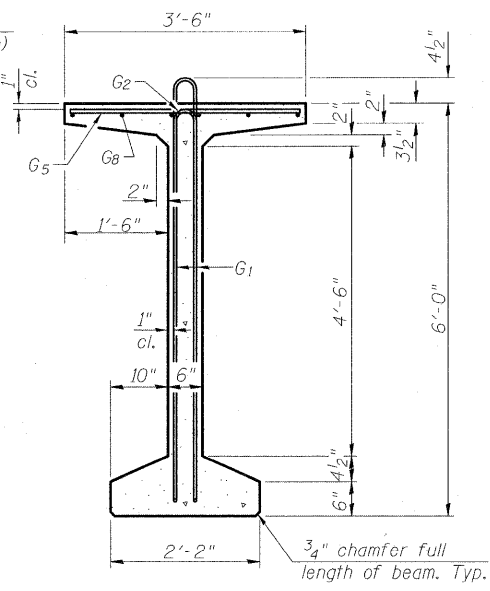
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



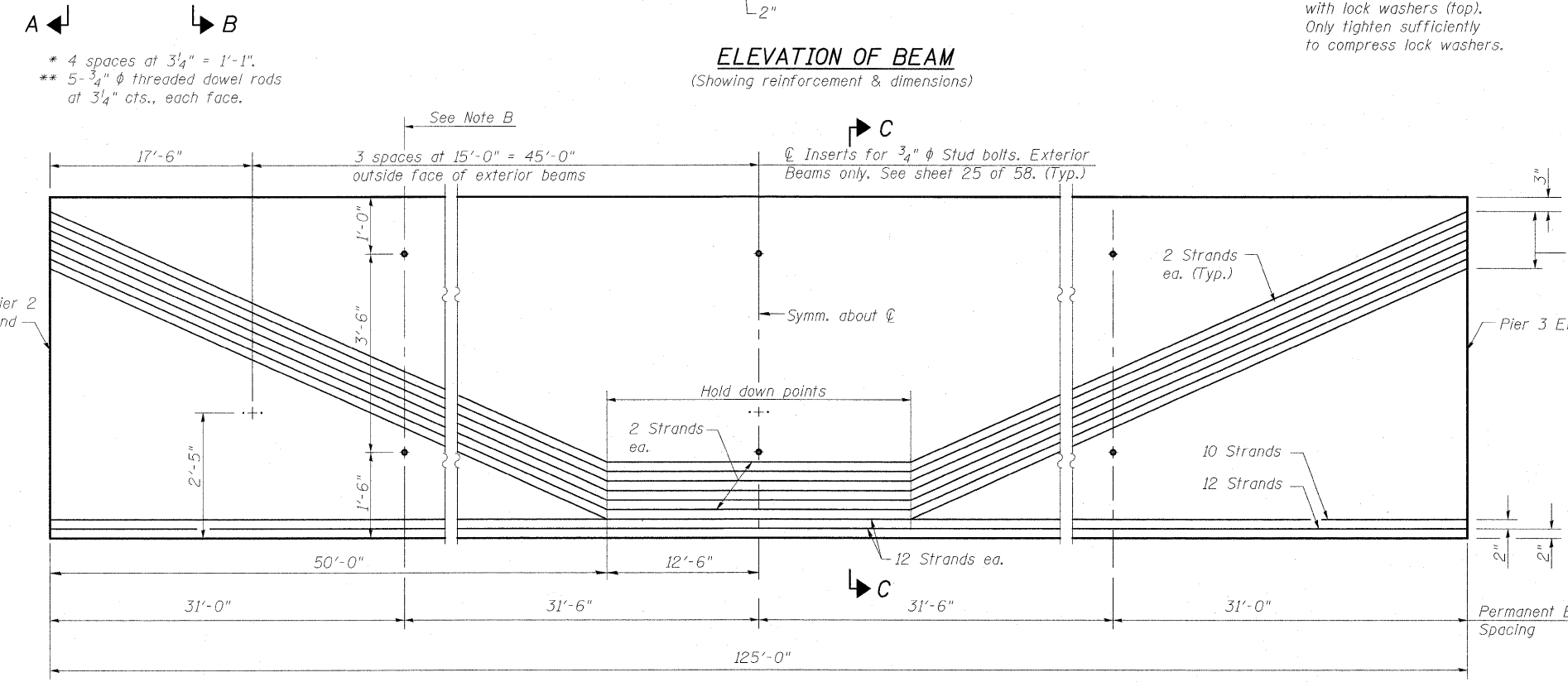
ELEVATION OF BEAM
(Showing reinforcement & dimensions)



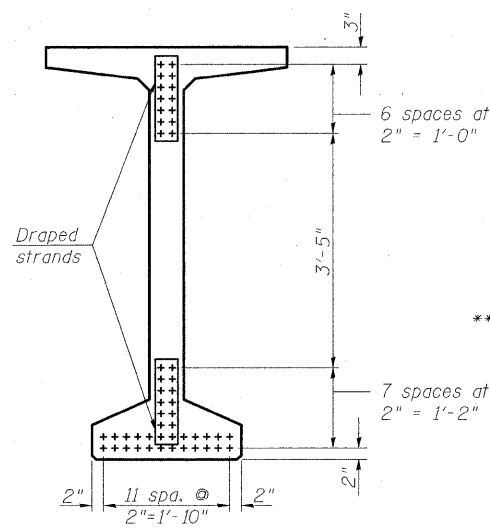
SECTION A-A



SECTION B-B



ELEVATION OF BEAM
(Showing prestressing steel)



SECTION C-C

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

Bar	No.	Size	Length	Shape
G1	212	#4	13'-5"	∩
G2	20	#4	11'-8"	∩
G4	56	#3	4'-11"	∩
G5	167	#5	3'-4"	∩
G6	6	#8	6'-6"	∩
G8	18	#6	43'-5"	∩

***For information only
Notes:
See sheet 38 of 58 for additional details and Bill of Material.
Required release strength, f'_{ci} , shall be 5,000 psi.

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

Note B:
∅ 1" I.D. formed holes with PVC pipe cast at right angles to web. Locate to miss strands. See sheet 33 of 58 for details of Permanent Bracing.

BERNARDIN LOCHMUELLER & ASSOCIATES, INC.
3 Oak Drive
Maryville, IL 62962-5685
Local (618) 288-4955
Fax 618-288-4956

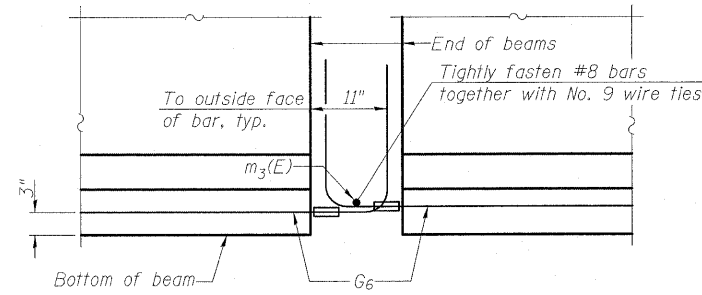
SHEET NO. 37 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	69
SN 025-0107 & 025-0108			CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

72" PPC BULB T-BEAM
Span 3
S.N. 025-0107 & 025-0108

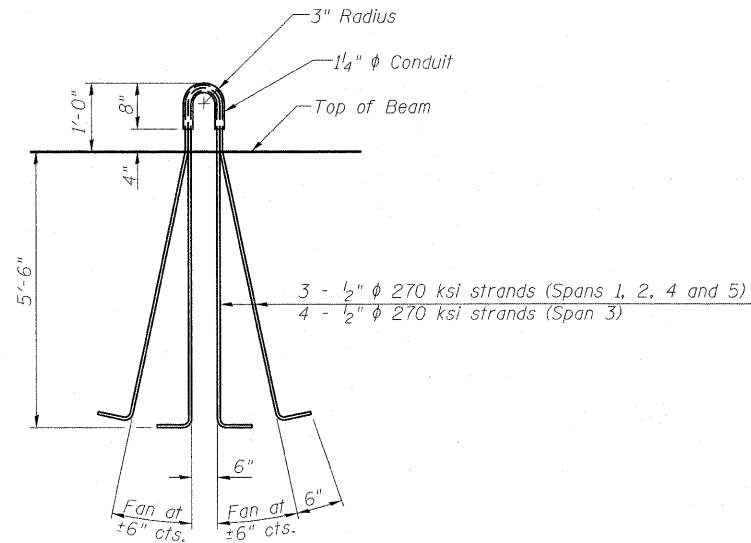
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NOTES

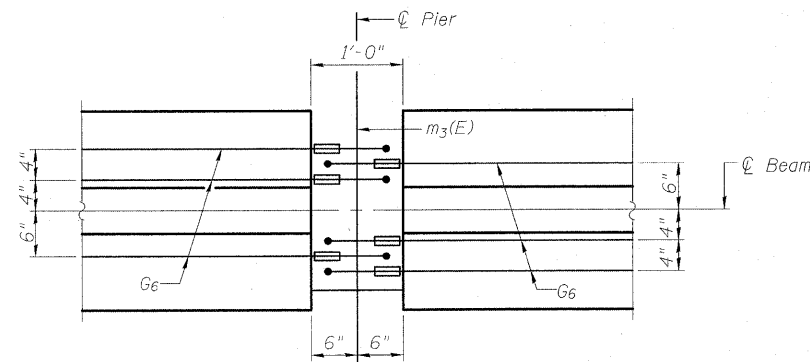
Inserts for $\frac{3}{4}$ " ϕ threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams.
Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be $\frac{1}{2}$ " 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 $2\frac{1}{2}$ " ϕ lifting pin shall be used to engage the lifting loops during handling. Tilt G₆ bars when necessary to maintain $1\frac{1}{2}$ " clearance.
The top and bottom plates shall be AASHTO M270 Grade 50.
The bottom plates and studs shall be galvanized according to AASHTO M111. Top plates and threaded rods need not be galvanized.
Threaded rods shall be ASTM F 1554 Grade 55.
The G₆ bar assembly shall have the threaded ends oversized to ensure no reduction in cross sectional area after threading. The coupler splice shall be capable of developing 125 percent of the yield strength of the reinforcement bar.



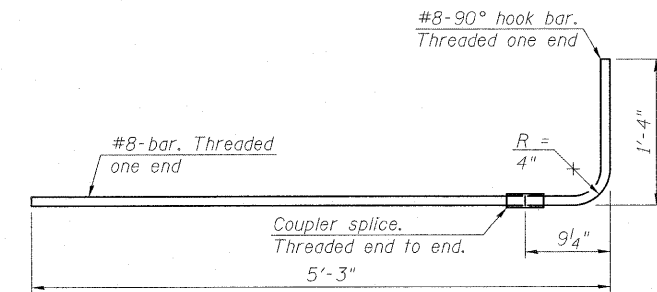
ELEVATION OF BEAM AT PIER



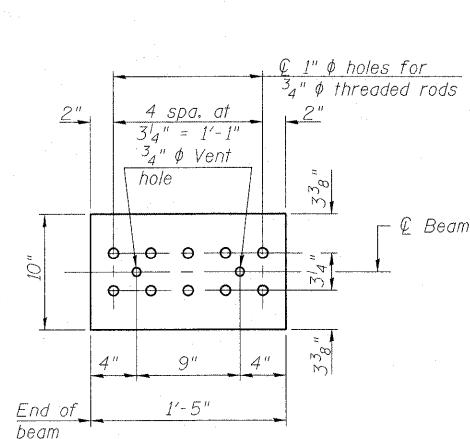
LIFTING LOOP DETAIL



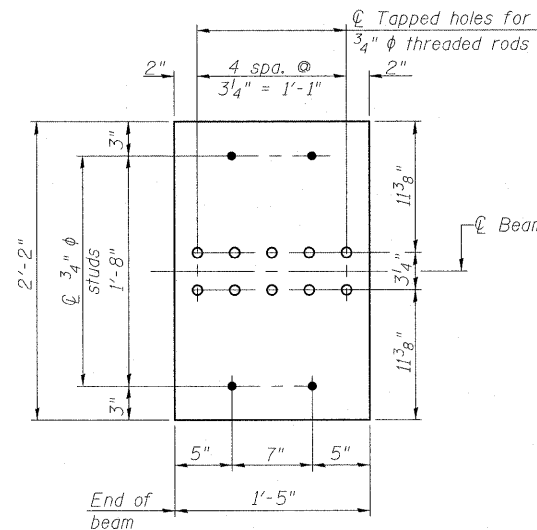
PLAN OF BEAM AT PIER



G6 BAR ASSEMBLY

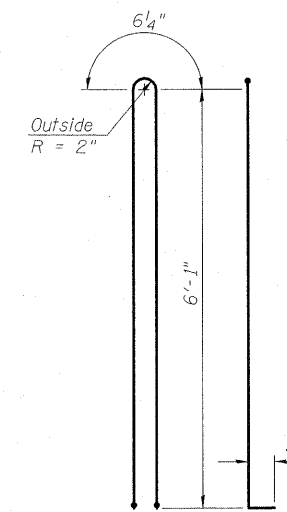


TOP PLATE

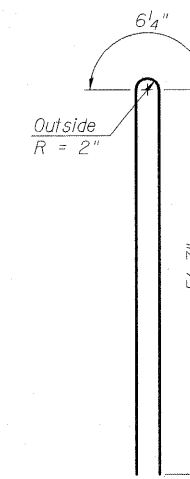


BOTTOM PLATE

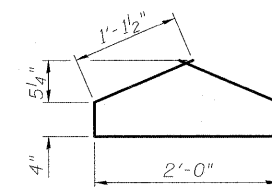
See bearing details for pintle hole locations when required.



BAR G1



BAR G2



BAR G4

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams, 72"	Ft.	6387

**72" PPC BULB T-BEAM DETAILS
S.N. 025-0107 & 025-0108**

DESIGNED	
CHECKED	
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

PBT-4-72D

11-1-09

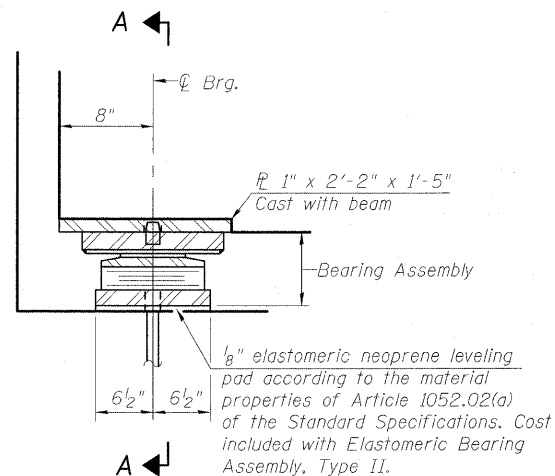


**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

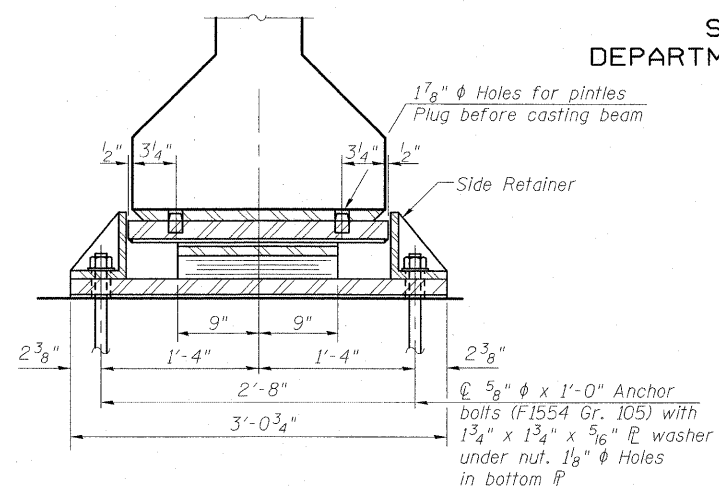
3 Oak Drive
Maryville, IL 62452-5635
Local (618) 288-4665
Fax 618-288-4666

SHEET NO. 38 58 SHEETS	F.A.I. RTE. 70	SECTION (25-3)B	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 70
	SN 025-0107 & 025-0108			CONTRACT NO. 74296	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

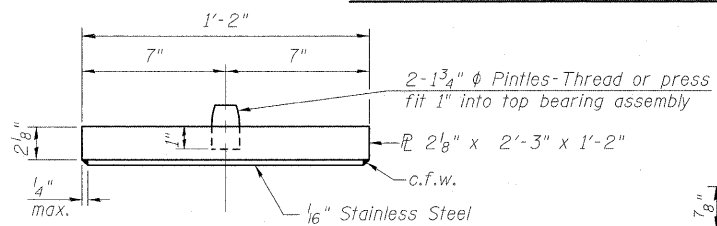


SECTION AT ABUT.

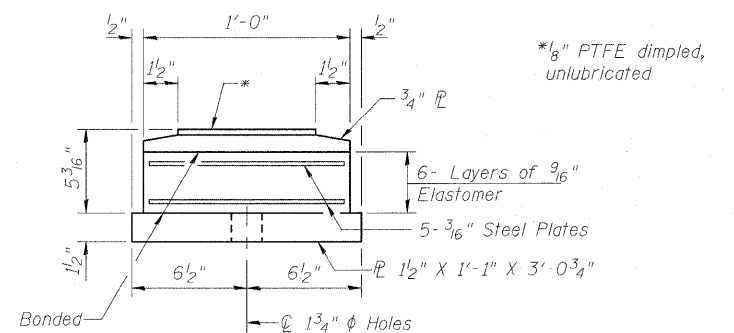


SECTION A-A

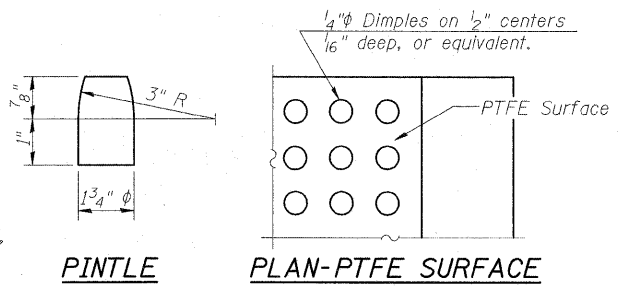
TYPE II ELASTOMERIC EXP. BRG.



TOP BEARING ASSEMBLY

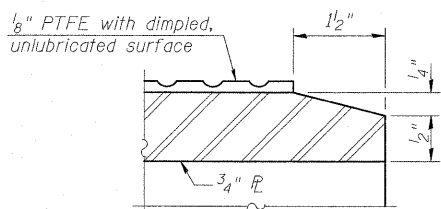


BOTTOM BEARING ASSEMBLY

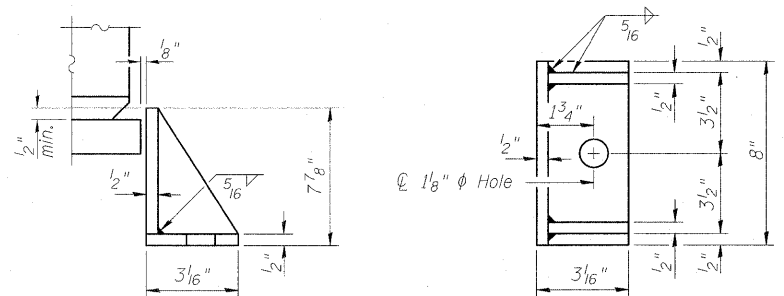


PINTLE

PLAN-PTFE SURFACE

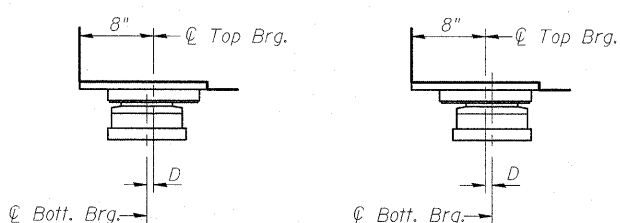


SECTION THRU PTFE



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



BELOW 50°F.

ABOVE 50°F.

(Move bott. brg. away from fixed brg.) (Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

$D = \frac{1}{8}$ " per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

	0.4 Sp. 1 or 0.6 Sp. 5	Pier 1 or 4	0.5 Sp. 2 or 0.5 Sp. 4	Pier 2 or 3	0.5 Sp. 3
I	(in ⁴) 545894		545894		545894
I'	(in ⁴) 1015506		1015506		1015506
S _b	(in ³) 14915		14915		14915
S _b '	(in ³) 19510		19510		19510
S _t	(in ³) 15421		15421		15421
S _t '	(in ³) 50903		50903		50903
DC1	(k/ft.) 1.56		1.56		1.56
M _{DC1}	(k) 1248.2		1272.8		2964.6
DC2	(k/ft.) 0.15	0.15	0.15	0.15	0.15
M _{DC2}	(k) 88.2	79.3	3.0	152.8	130.6
DW	(k/ft.) 0.31	0.31	0.31	0.31	0.31
M _{DW}	(k) 189.5	170.5	6.4	328.3	280.6
M _{L + IM}	(k) 1143.5	1068.3	934.8	1367.9	1366.7

	Abut.	Pier 1 Span 1 Pier 4 Span 5	Pier 1 Span 2 Pier 4 Span 4	Pier 2 Span 2 Pier 3 Span 4	Pier 2 Span 3 Pier 3 Span 3
R _{DC1}	(k) 63.3	63.3	62.7	62.7	95.6
* R _{DC2}	(k) 5.1	6.2	6.2	8.1	8.1
* R _{DW}	(k) 10.9	13.4	13.4	17.4	17.4
* R _{L + IM}	(k) 84.0	71.4	71.4	82.5	82.5
R _{Total}	(k) 163.3	154.3	154.3	170.7	170.7

* The total R_{DC2}, R_{DW} and R_{L + IM} are assumed to be distributed evenly to each bearing line at a pier regardless of the span ratios. The bearing design at a pier is based on the maximum reactions of either span. The Reactions and Moments for R_{DC1} do not include the additional deck concrete required in the Diamond Grinding and Surface Testing Bridge Sections Special Provisions.

- I: Non-composite moment of inertia of beam section (in⁴).
- I': Composite moment of inertia of beam section (in⁴).
- S_b: Non-composite section modulus for the bottom fiber of the prestressed beam (in³).
- S_b': Composite section modulus for the bottom fiber of the prestressed beam (in³).
- S_t: Non-composite section modulus for the top fiber of the prestressed beam (in³).
- S_t': Composite section modulus for the top fiber of the prestressed beam (in³).
- 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_{L + IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

Notes:
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (F_y=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts for Type II bearings shall be placed in holes in the concrete drilled through holes in the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II.

The 1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

See sheet 38 of 58 for additional details of plate cast with beam.

All (embedded and separate) bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.

The Anchor Bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitution of a higher diameter and/or grade Anchor Bolt will not be allowed.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	28
Anchor Bolts, 1 1/4"	Each	56

BEARING DETAILS
S.N. 025-0107 & 025-0108

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.



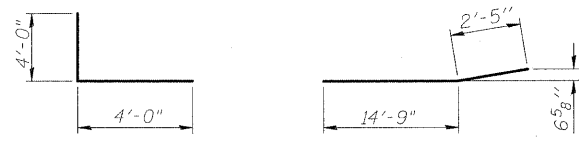
BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

3 Oak Drive
Mayville, IL 62062-5635
Local (618) 288-4955
Fax (618) 288-4956

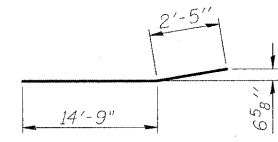
SHEET NO. 39 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	71
SN 025-017 & 025-0108		CONTRACT NO. 74296			
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

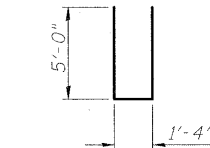
Elev.	West Abut.		East Abut.	
	Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding	Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
A	527.55	527.57	527.56	527.58
B	527.99	528.01	528.00	528.02
C	527.64	527.66	527.65	527.67
D	526.22		526.23	
E	520.02		520.03	
F	520.16		520.17	
G	520.31		520.28	
H	520.41		520.36	
I	520.33		520.36	
J	520.26		520.25	
K	520.10		520.11	
L	516.52		516.53	



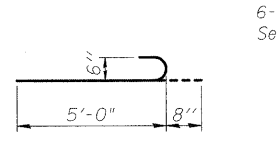
BAR h4(E)



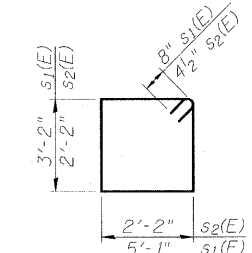
BAR h6(E)



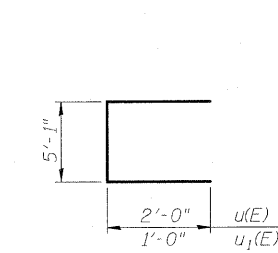
BAR n(E)



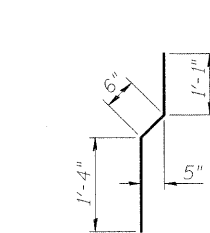
BAR n1(E)



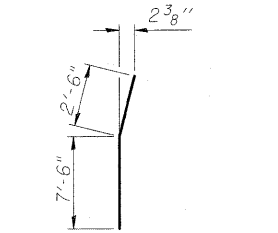
BARS s1(E) & s2(E)



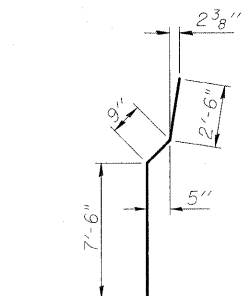
BAR u(E) & u1(E)



BAR v4(E)



BAR v6(E)

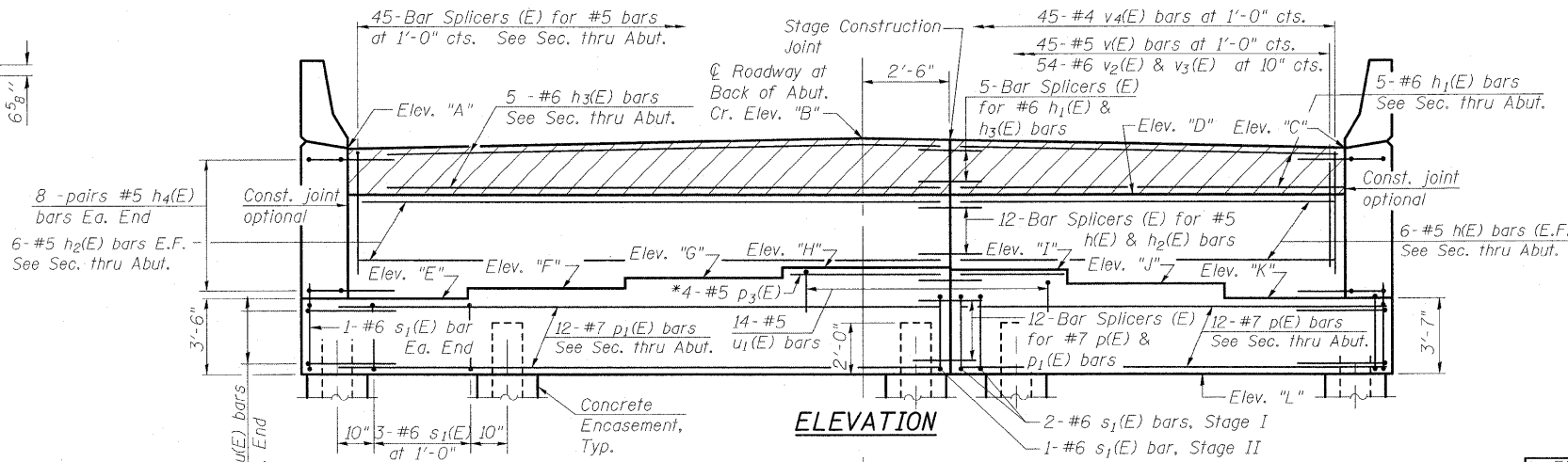


BAR v7(E)

PILE DATA

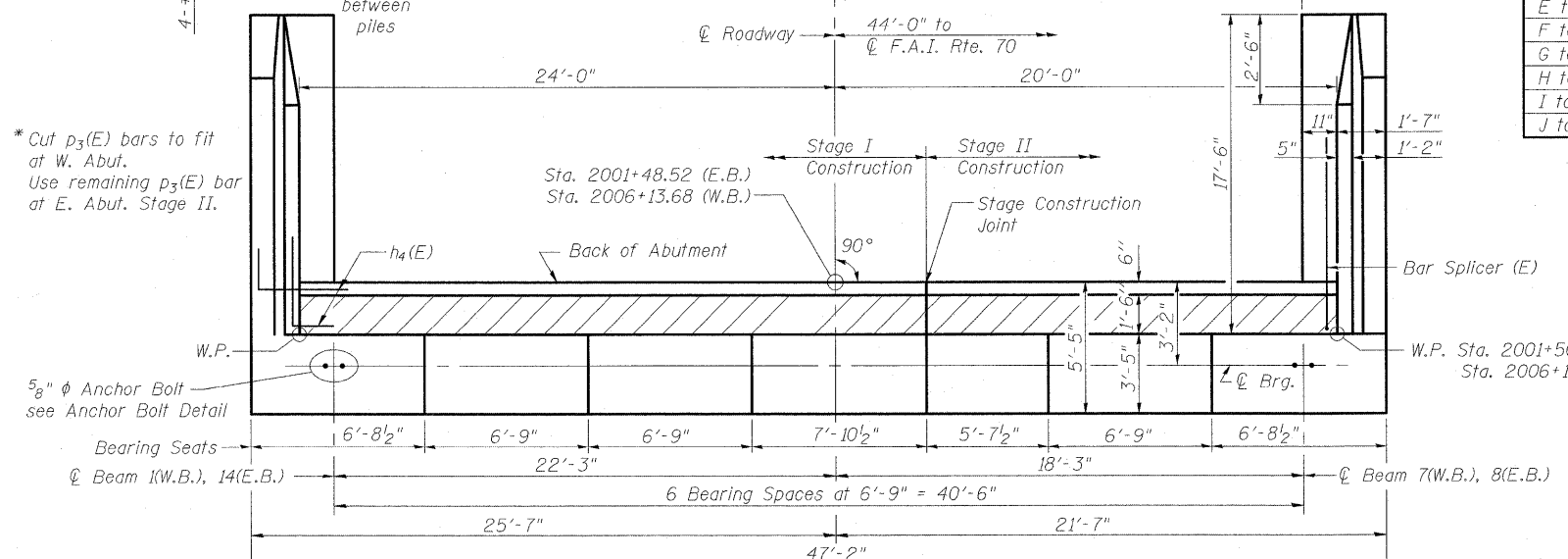
Type: HP 14x73
Nominal Required Bearing: 505K (E. Abut.)
361K (W. Abut.)
Factored Resistance Available: 252K (E. Abut.)
181K (W. Abut.)
Est. Length: (81' W. Abut., 60' E. Abut.)
No. Production Piles: 14 per Abut.
No. Test Piles: 1 per Abut.

Notes:
Top of Pile Elev. = 518.81 W. Abut. &
518.83 E. Abut.
For Concrete Sealer application see
sheet 42 of 58.
E.F. indicates Each Face.
For Section thru Abutment and Wingwalls
see sheets 42 and 43 of 58.
For details of Bar Splicers, see sheet
49 of 58.
For details of piles and Concrete
Encasement, see sheet 50 of 58.

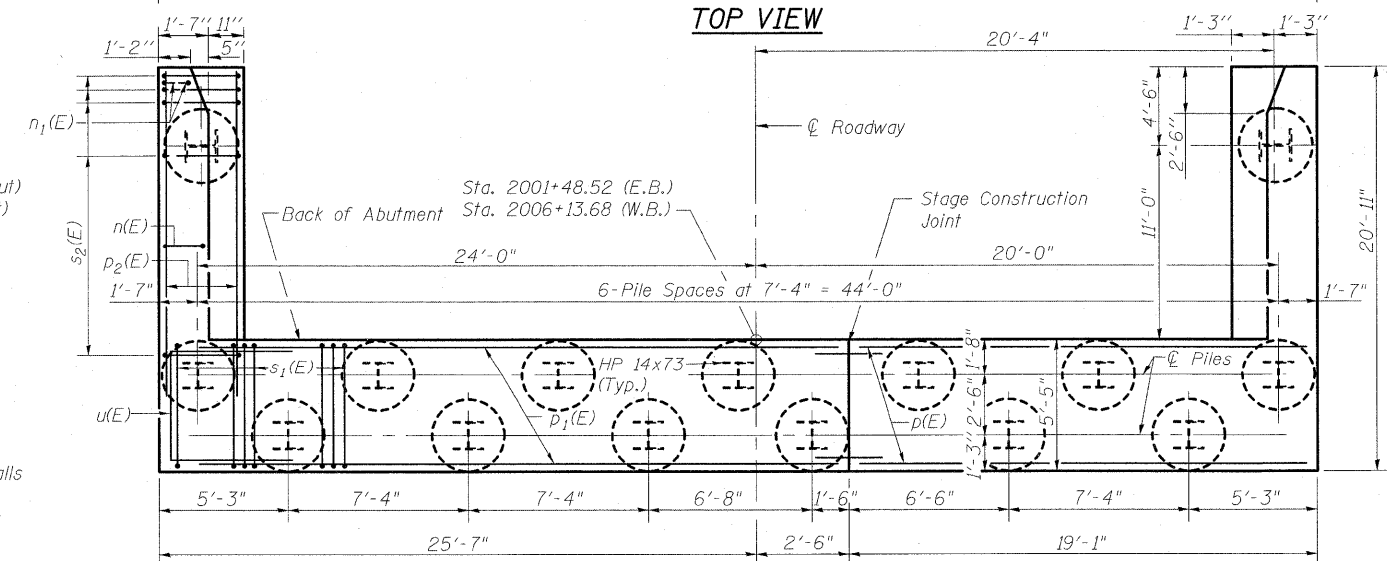


ELEVATION

* Cut p3(E) bars to fit at W. Abut. Use remaining p3(E) bar at E. Abut. Stage II.



TOP VIEW



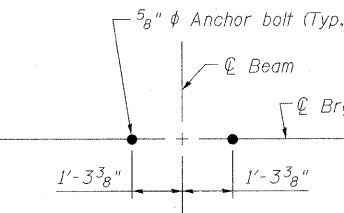
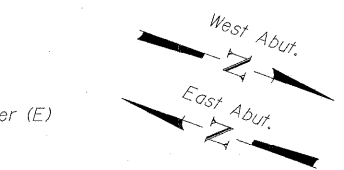
PLAN-PILE CAP

STEP HEIGHTS

Elev.	W. Abut.	E. Abut.
E to F	+1 3/4"	+1 5/8"
F to G	+1 3/4"	+1 3/8"
G to H	+1 1/2"	+1"
H to I	-1"	0"
I to J	-7/8"	-1 3/8"
J to K	-1 1/8"	-1 5/8"

BILL OF MATERIAL
FOUR ABUTMENTS

Bar	No.	Size	Length	Shape
h(E)	48	#5	17'-3"	—
h1(E)	20	#6	17'-3"	—
h2(E)	48	#5	26'-3"	—
h3(E)	20	#6	26'-3"	—
h4(E)	128	#5	8'-0"	└
h5(E)	104	#4	17'-3"	—
h6(E)	104	#4	17'-2"	—
n(E)	120	#6	11'-4"	┌
n1(E)	48	#6	5'-8"	┌
p(E)	48	#7	18'-10"	—
p1(E)	48	#7	27'-10"	—
p2(E)	48	#7	17'-8"	—
p3(E)	16	#5	13'-3"	—
s1(E)	152	#6	17'-10"	┌
s2(E)	144	#4	9'-5"	┌
u(E)	32	#6	9'-1"	┌
u1(E)	56	#5	7'-1"	┌
v(E)	180	#5	3'-1"	—
v2(E)	216	#6	7'-8"	—
v3(E)	216	#6	9'-0"	—
v4(E)	180	#4	2'-11"	—
v5(E)	144	#6	10'-7"	—
v6(E)	24	#6	10'-0"	—
v7(E)	120	#6	10'-9"	—
Structure Excavation	Cu. Yd.	1289		
Concrete Structures	Cu. Yd.	311.4		
Reinforcement Bars, Epoxy Coated	Pound	32680		
Furnishing Steel Piles, HP 14x73	Foot	3948		
Driving Piles	Foot	3948		
Test Pile, Steel HP 14x73	Each	4		
Concrete Encasement	Cu. Yd.	32.8		
Concrete Sealer	Sq. Ft.	2727		
Bar Splicers	Each	104		
Anchor Bolts, 5/8"	Each	56		



ANCHOR BOLT DETAIL

WEST ABUTMENT (E.B.)
EAST ABUTMENT (W.B.)
S.N. 025-0107 & 025-0108

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.



BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

3 Oak Drive
Maryville, IL 62962-5635
Local: 618-288-4666
Fax: 618-288-4666

SHEET NO. 40	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	58 SHEETS	70	(25-3)B	EFFINGHAM	1416
		SN 025-017 & 025-0108	CONTRACT NO. 74296		
		FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 70	

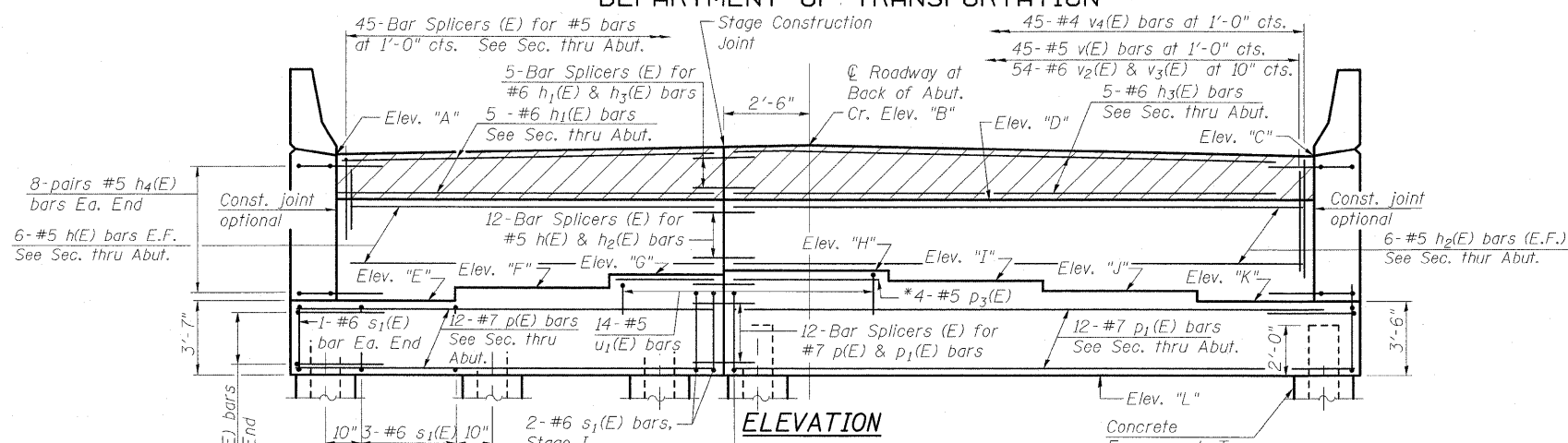
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEP HEIGHTS

Elev.	W. Abut.	E. Abut.
E to F	+1 ⁷ / ₈ "	+1 ⁵ / ₈ "
F to G	+7 ⁷ / ₈ "	+1 ³ / ₈ "
G to H	+1"	0"
H to I	-1 ¹ / ₄ "	-1"
I to J	-1 ³ / ₄ "	-1 ³ / ₈ "
J to K	-1 ³ / ₄ "	-1 ⁵ / ₈ "

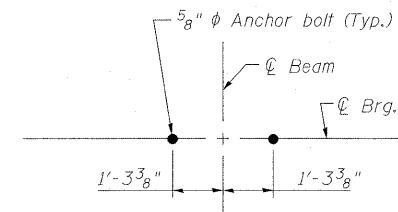
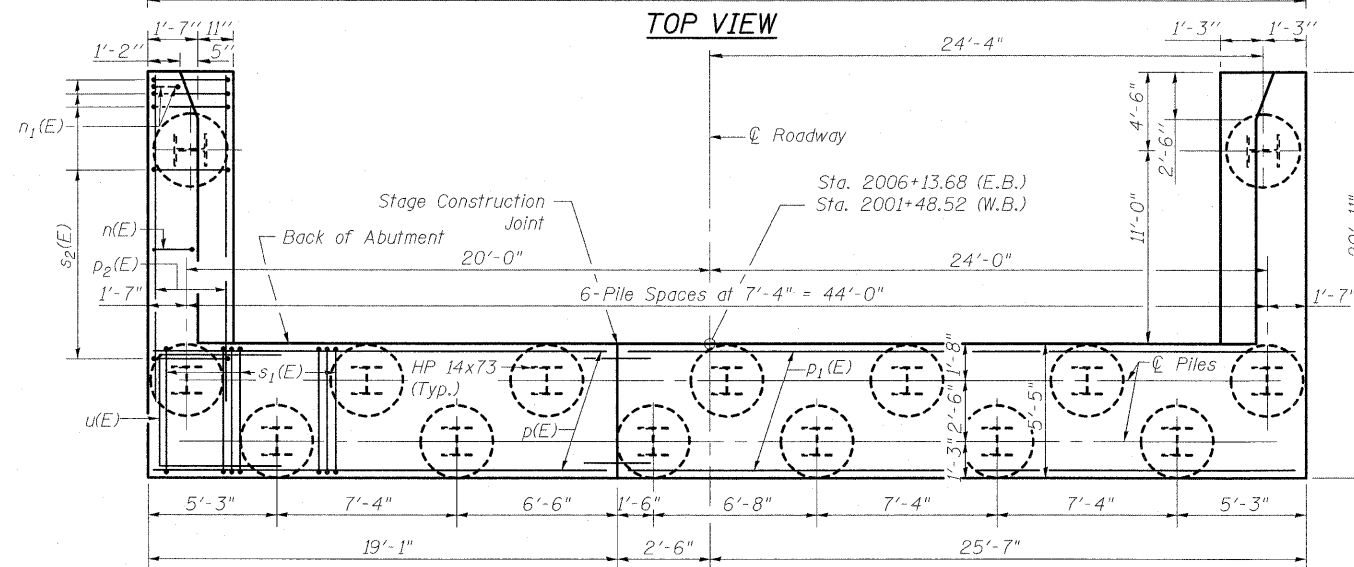
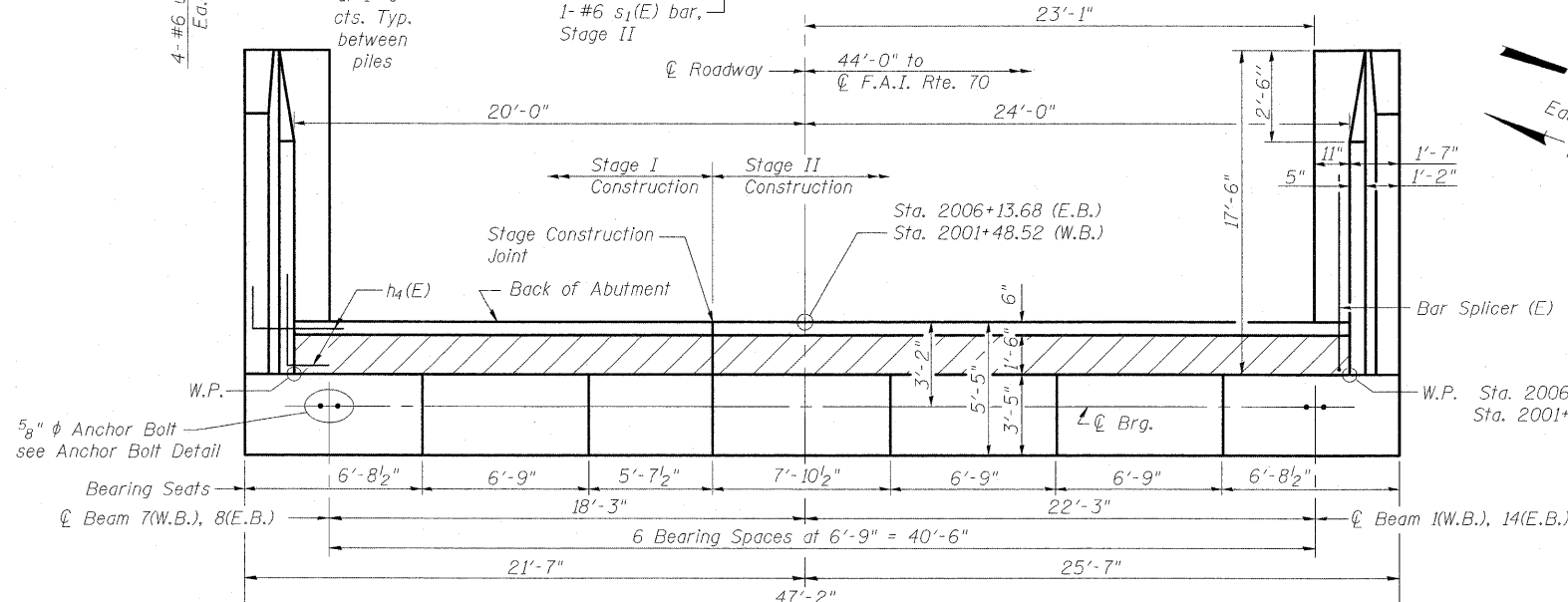
8-pairs #5 h₄(E) bars Ea. End
6-#5 h(E) bars E.F.
See Sec. thru Abut.

*Cut p₃(E) bars to fit at W. Abut.
Use the remaining p₃(E) bar at the E. Abut. Stage II.



Elev.	West Abut.		East Abut.	
	Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding	Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
A	527.64	527.66	527.65	527.67
B	527.99	528.01	528.00	528.02
C	527.55	527.57	527.56	527.58
D	526.22		526.23	
E	520.10		520.11	
F	520.26		520.25	
G	520.33		520.36	
H	520.42		520.36	
I	520.31		520.28	
J	520.17		520.16	
K	520.02		520.03	
L	516.52		516.53	

Notes:
Top of Pile Elev. = 518.81 W. Abut. & 518.83 E. Abut.
For Concrete Sealer application see sheet 42 of 58.
E.F. Indicates Each Face.
For Section thru Abutment and Wingwalls see sheets 42 and 43 of 58.
For details of Bar Splicers, see sheet 49 of 58.
For details of piles and Concrete Encasement, see sheet 50 of 58.
For bar details see sheet 40 of 58.
For Bill of Materials see sheet 40 of 58.



ANCHOR BOLT DETAIL

PILE DATA

Type: HP 14x73
Nominal Required Bearing: 505K (E. Abut.)
361K (W. Abut.)
Factored Resistance Available: 252K (E. Abut.)
181K (W. Abut.)
Est. Length: (81' W. Abut., 60' E. Abut.)
No. Production Piles: 14 per Abut.
No. Test Piles: 1 per Abut.

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

PLAN-PILE CAP



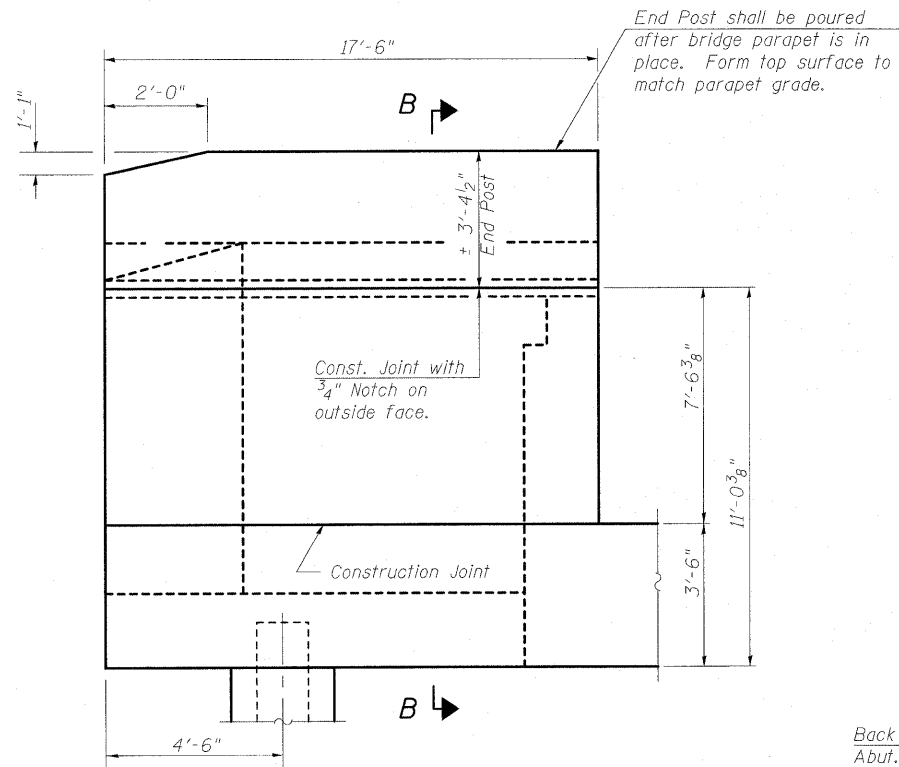
BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

8 Oak Drive
Maryville, IL 62062-5656
Local (618) 288-4055
Fax 618-288-4666

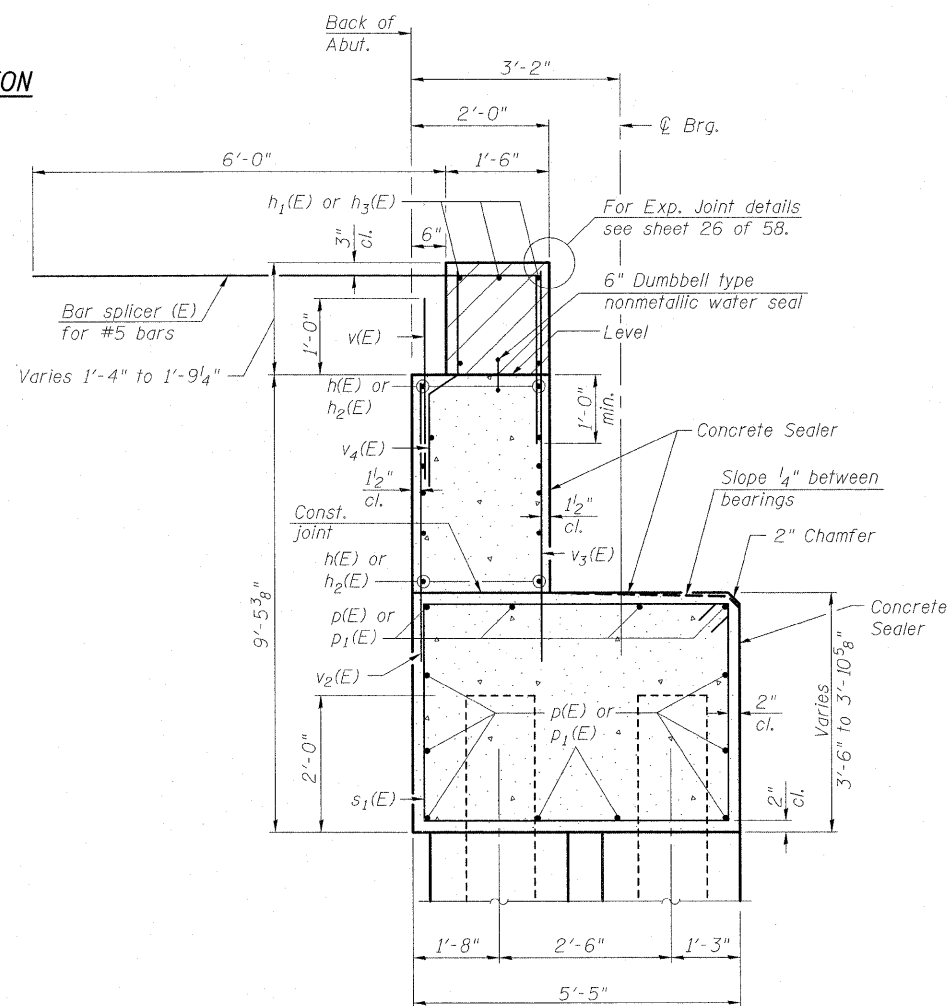
SHEET NO. 41 58 SHEETS	F.A.I. RTE. 70	SECTION (25-3)B	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 73
	SN 025-017 & 025-0108		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

WEST ABUTMENT (W.B.)
EAST ABUTMENT (E.B.)
S.N. 025-0107 & 025-0108

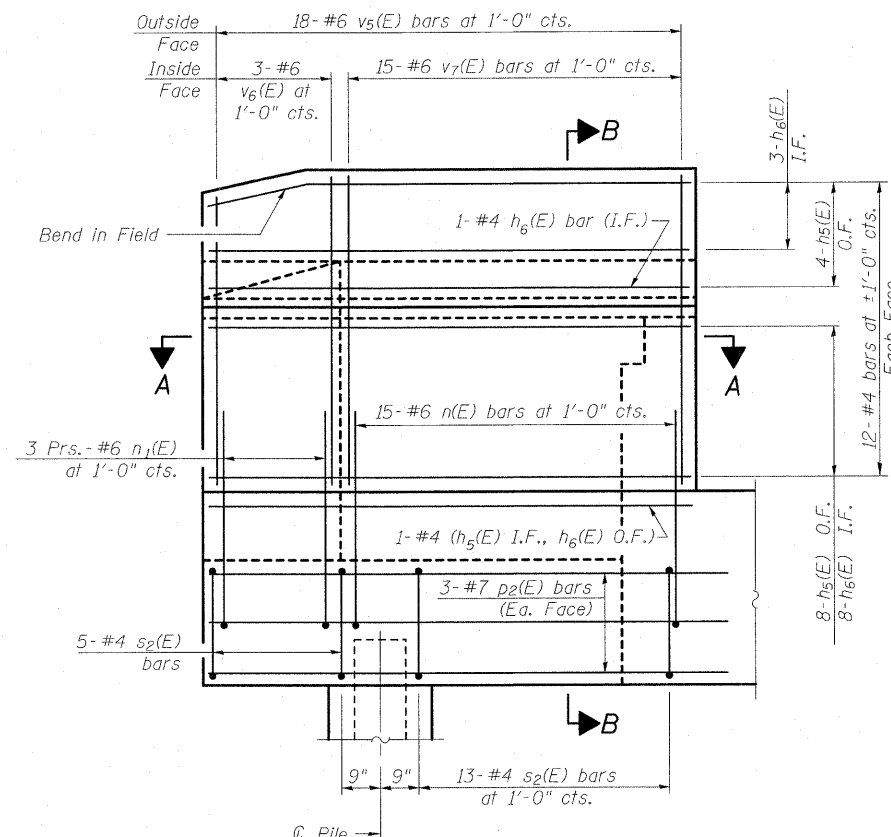
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



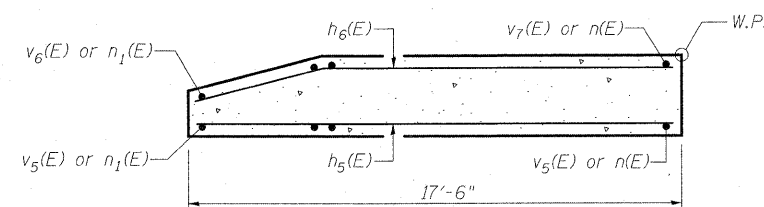
WING WALL ELEVATION
Showing Dimensions



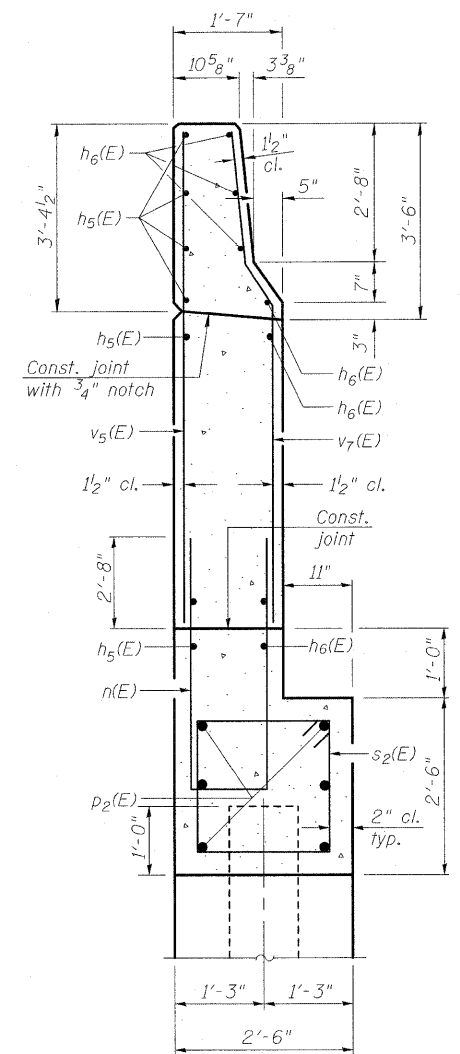
SEC. THRU ABUT.



WING WALL ELEVATION
Showing Reinforcement



SECTION A-A



SECTION B-B

Notes:
Hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure.
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
Quantity of concrete in end post included with Concrete Superstructure on sheet 25 of 58.
For Concrete Encasement details, see sheet 50 of 58.
Apply concrete sealer to vertical front face of backwall, horizontal surface of cap and vertical front face of abutment cap.

W. ABUTMENT, N. WING (W.B)
E. ABUTMENT, N. WING (W.B)
W. ABUTMENT, S. WING (E.B)
E. ABUTMENT, S. WING (E.B)
S.N. 025-0107 & 025-0108

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.



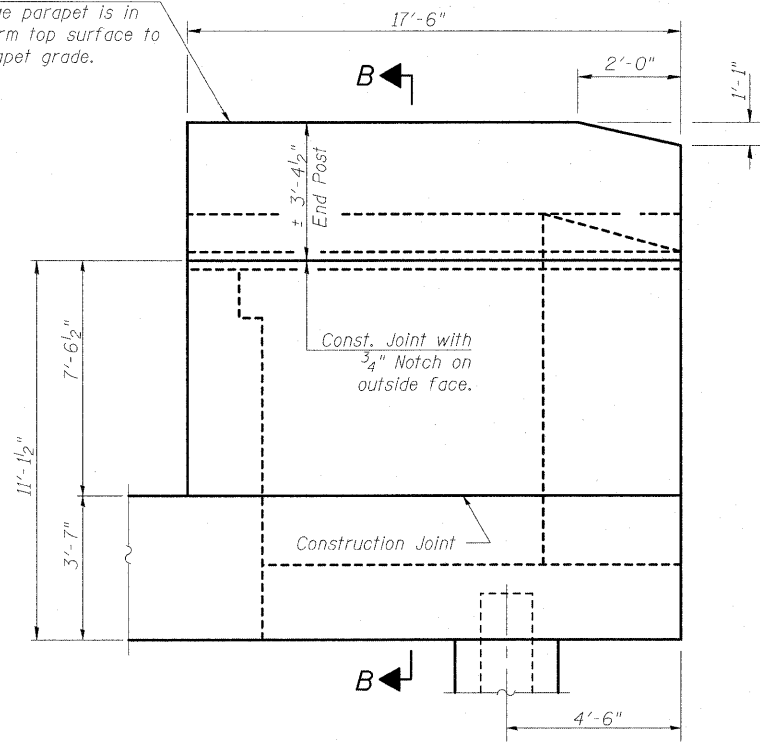
**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62062-5635
Local (618) 288-4666
Fax 618-288-4996

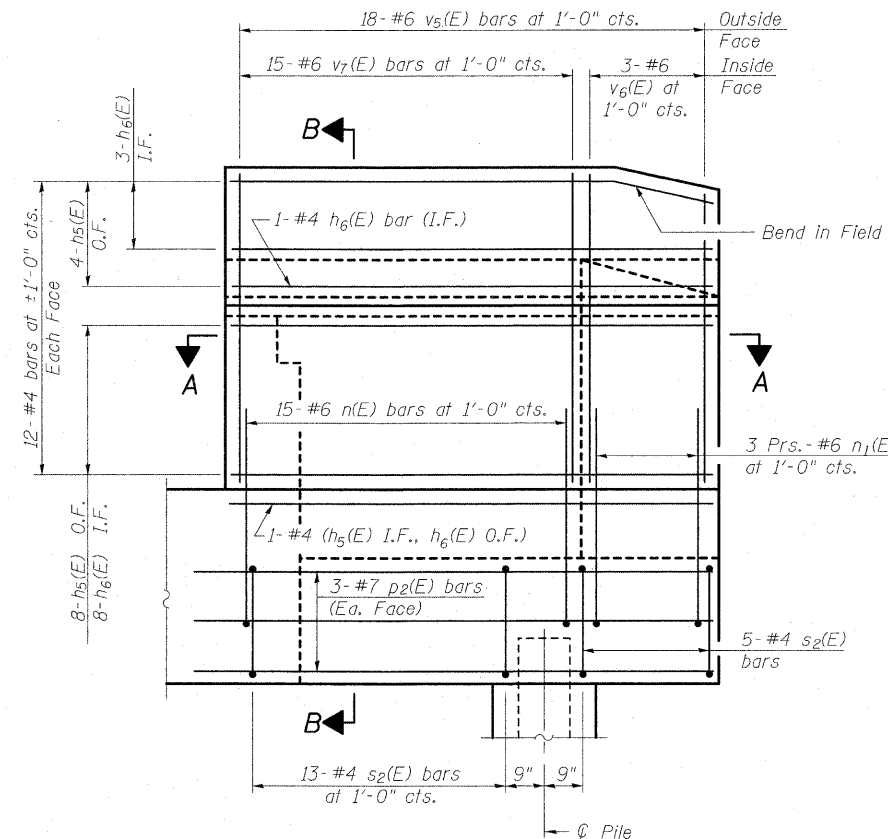
SHEET NO. 42	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	74
58 SHEETS	SN 025-017 & 025-0108		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

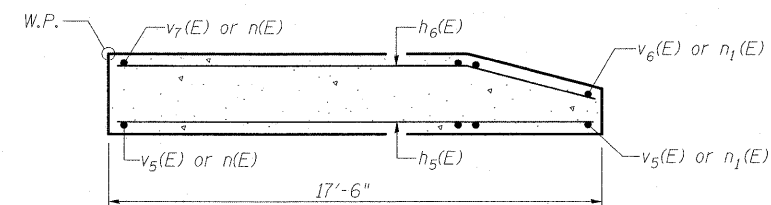
End Post shall be poured after bridge parapet is in place. Form top surface to match parapet grade.



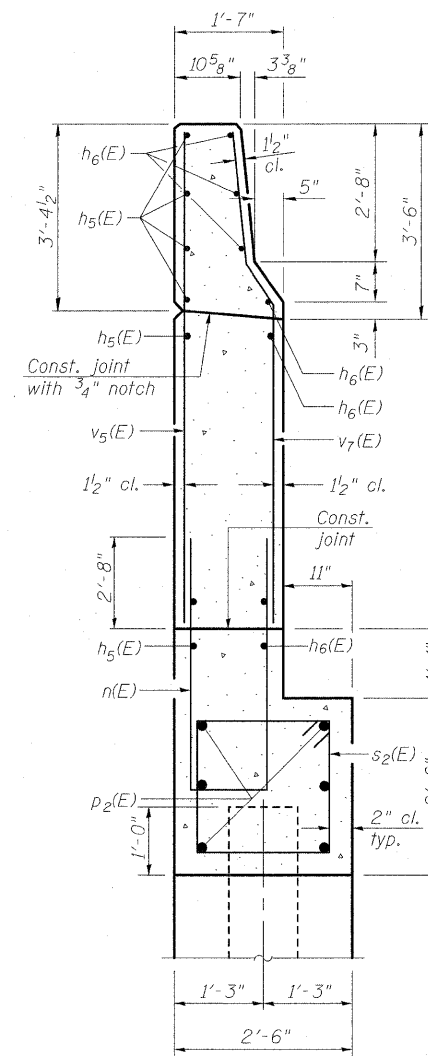
WING WALL ELEVATION
Showing Dimensions



WING WALL ELEVATION
Showing Reinforcement



SECTION A-A



SECTION B-B

Notes:
Hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure.
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
Quantity of concrete in end post included with Concrete Superstructure on sheet 25 of 58.
For Concrete Encasement details, see sheet 50 of 58.
Apply concrete sealer to vertical front face of backwall, horizontal surface of cap and vertical front face of abutment cap.

W. ABUTMENT, S. WING (W.B)
E. ABUTMENT, S. WING (W.B)
W. ABUTMENT, N. WING (E.B)
E. ABUTMENT, N. WING (E.B)
S.N. 025-0107 & 025-0108

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.



**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62442-6635
Local (618) 288-4665
Fax 618-288-4666

SHEET NO. 43	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	75
58 SHEETS	SN 025-017 & 025-0108		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Notes:

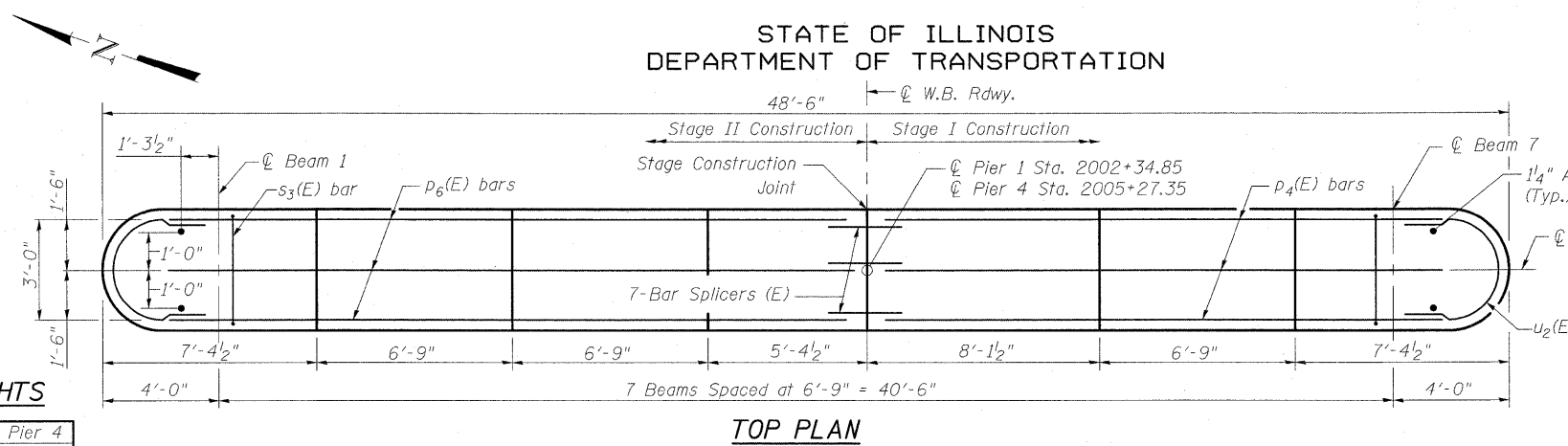
For Anchor Bolt & Side Retainer details, see sheet 34 of 58.
Space reinforcement in cap to miss anchor bolts. Pour steps monolithically with cap.
For details of piles, see sheet 50 of 58.
If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.
See sheet 49 of 58 for Bar Splicer and Mechanical Splicer details.
For Pile Encasement Details see sheet 50 of 58.

PILE DATA

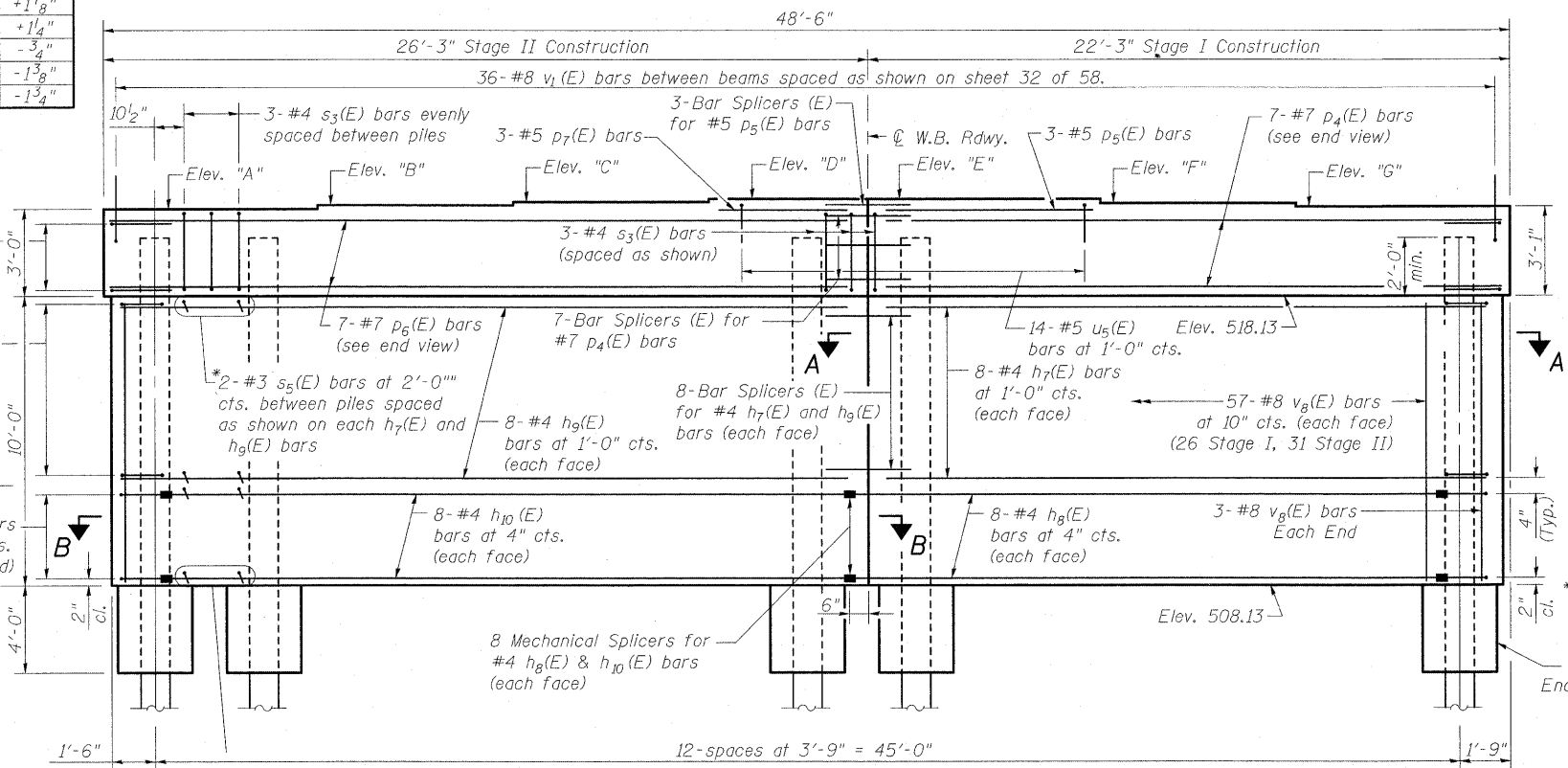
Type: HP 14x73
Nominal Required Bearing: 578 k
Factored Resistance Available: 289 k
Est. Length: 94 Pier 1
81 Pier 4
No. Production Piles: 12 per pier
No. Test Piles: 1 per pier

STEP HEIGHTS

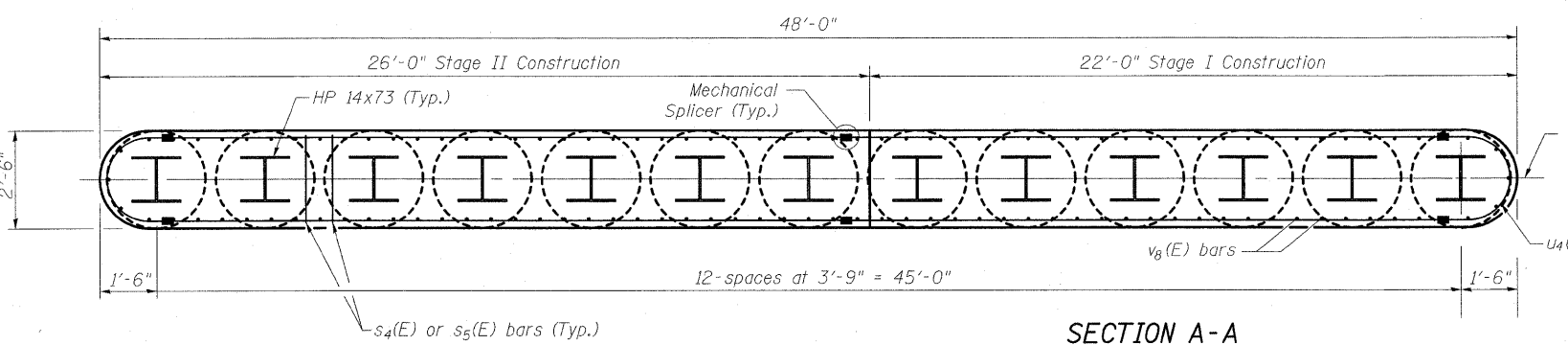
Elev.	Pier 1	Pier 4
A to B	+1 ⁵ / ₈ "	+1 ³ / ₄ "
B to C	+1 ³ / ₈ "	+1 ¹ / ₈ "
C to D	+1 ¹ / ₄ "	+1 ¹ / ₄ "
D to E	0"	-3 ³ / ₄ "
E to F	-1 ³ / ₄ "	-1 ³ / ₄ "
F to G	-1 ¹ / ₂ "	-1 ³ / ₄ "



TOP PLAN



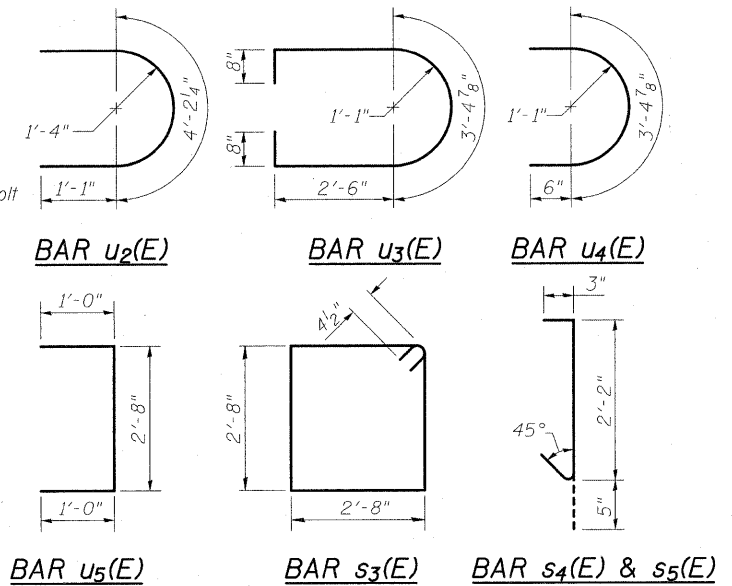
ELEVATION
(Looking East)



SECTION A-A



SECTION B-B



ELEVATION DATA

Elev.	Pier 1	Pier 4
A	521.13	521.13
B	521.27	521.28
C	521.38	521.43
D	521.48	521.54
E	521.48	521.47
F	521.34	521.36
G	521.21	521.21

BILL OF MATERIAL FOR FOUR PIERS

Bar	No.	Size	Length	Shape
h7(E)	64	#4	20'-6"	—
h8(E)	64	#4	20'-9"	—
h9(E)	64	#4	24'-6"	—
h10(E)	64	#4	23'-9"	—
p4(E)	28	#7	20'-6"	—
p5(E)	12	#5	7'-10"	—
p6(E)	28	#7	24'-6"	—
p7(E)	12	#5	5'-1"	—
s3(E)	144	#4	11'-5"	□
s4(E)	768	#4	2'-10"	—
s5(E)	768	#3	2'-10"	—
u2(E)	24	#4	6'-5"	—
u3(E)	64	#4	9'-9"	—
u4(E)	64	#4	4'-5"	—
u5(E)	56	#5	4'-8"	—
v1(E)	144	#8	4'-2"	—
v8(E)	480	#8	9'-8"	—
Structure Excavation		Cu. Yd.	152	
Concrete Structures		Cu. Yd.	243.8	
Reinforcement Bars, Epoxy Coated		Pound	24910	
Furnishing Steel Piles, HP 14x73		Foot	4200	
Driving Piles		Foot	4200	
Test Piles, Steel HP 14x73		Each	4	
Bar Splicers		Each	104	
Mechanical Splicers		Each	192	
Concrete Encasement		Cu. Yd.	38.0	
Anchor Bolts, 1/4"		Each	16	
Underwater Structure Excavation Protection Location 1		Each	1	
Underwater Structure Excavation Protection Location 2		Each	1	
Underwater Structure Excavation Protection Location 3		Each	1	
Underwater Structure Excavation Protection Location 4		Each	1	

*Alternate the placement of 3" leg for s4(E) and s5(E) bars.
**Lap splicing of reinforcement shall not be allowed in this region.
Concrete Encasement (Typ.)

END VIEW
Note: Top of Pile Elev. = 520.14

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

PIER 1 & 4 (W.B.)
STRUCTURE NO. 025-0108

BERNARDIN LOCHMUELLER & ASSOCIATES, INC.
3 Oak Drive
Merrville, IL 62662-9635
Local (618) 288-4665
Fax 618-288-4666

SHEET NO. 44	F.A.I. RTE. 70	SECTION (25-3)B	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 76
58 SHEETS	SN 025-0108		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

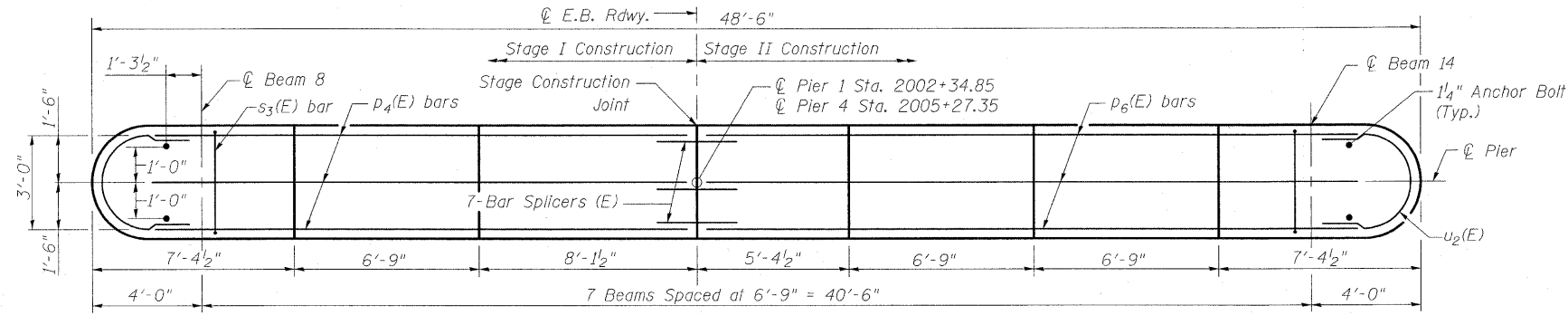
1/22/257 AM 4/23/2000 10:25:07 94991 044697

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Notes:
For Anchor Bolt & Side Retainer details, see sheet 33 of 58.
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles, see sheet 50 of 58.
If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.
See sheet 44 of 58 for Bill of Materials.
See sheet 44 of 58 for Bar Details.
See sheet 49 of 58 for Bar Splicer and Mechanical Splicer details.
For Pile Encasement Details see sheet 50 of 58.

PILE DATA

Type: HP 14x73
Nominal Required Bearing: 578 k
Factored Resistance Available: 289 k
Est. Length: 94 Pier 1
81 Pier 4
No. Production Piles: 12 per pier
No. Test Piles: 1 per pier



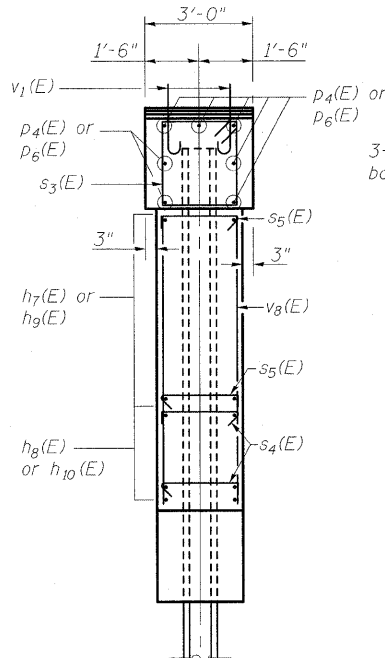
TOP PLAN

STEP HEIGHTS

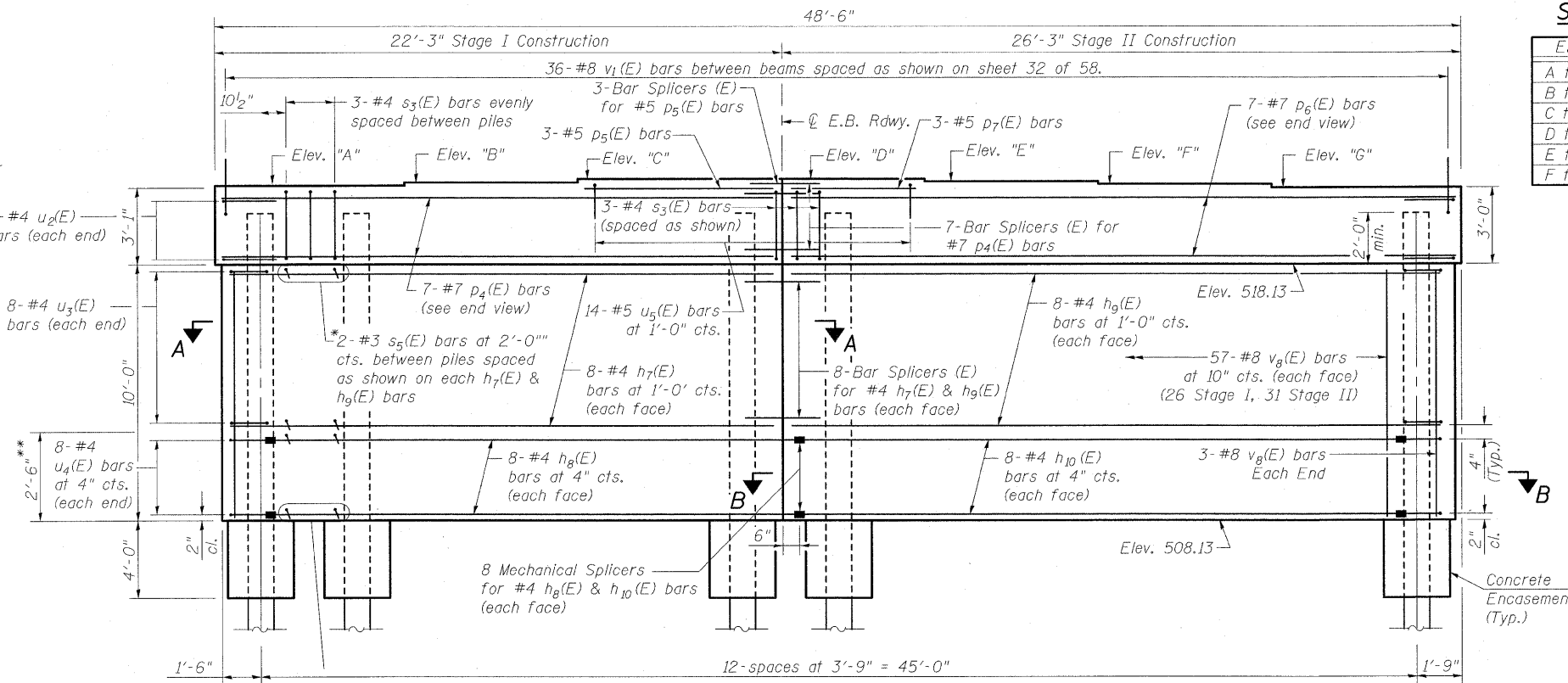
Elev.	Pier 1	Pier 4
A to B	+1 1/2"	+1 3/4"
B to C	+1 3/4"	+1 3/8"
C to D	0"	+3/4"
D to E	-1 1/4"	-1 1/4"
E to F	-1 3/8"	-1 7/8"
F to G	-1 5/8"	-1 3/4"

ELEVATION DATA

Elev.	Pier 1	Pier 4
A	521.21	521.21
B	521.34	521.36
C	521.48	521.47
D	521.48	521.53
E	521.38	521.43
F	521.26	521.27
G	521.13	521.13

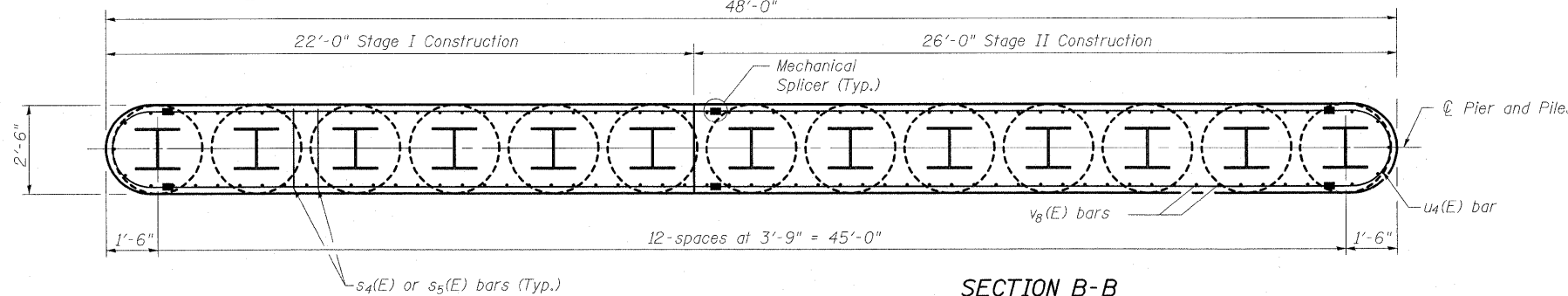


END VIEW



ELEVATION
(Looking East)

* Alternate the placement of 3" leg for s4(E) and s5(E) bars.
** Lap splicing of reinforcement shall not be allowed in this region.



SECTION A-A

SECTION B-B

**PIER 1 & 4 (E.B.)
STRUCTURE NO. 025-0107**

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

SHEET NO. 45 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	77
SN 025-0107			CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					



**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

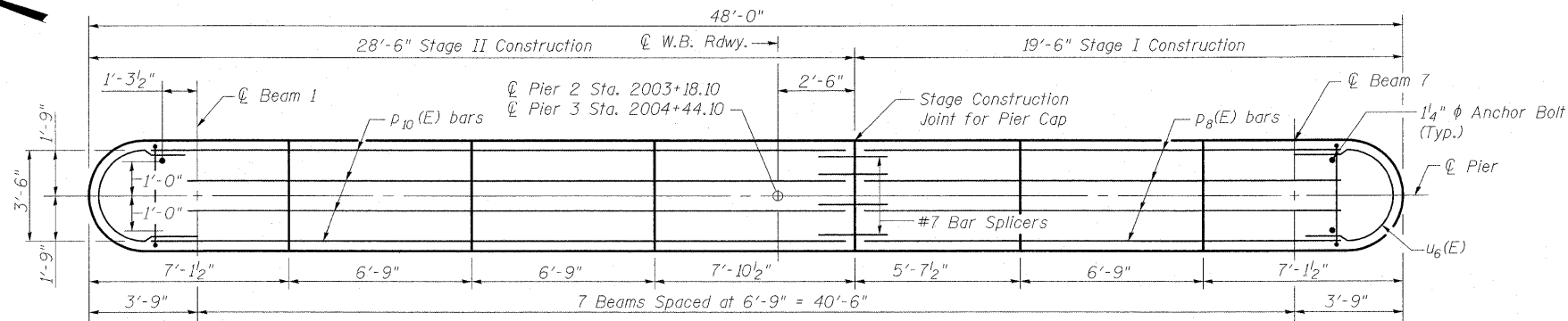
3 Oak Drive
Maryville, IL 62062-5635
Local (618) 288-4655
Fax 618-288-4656

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

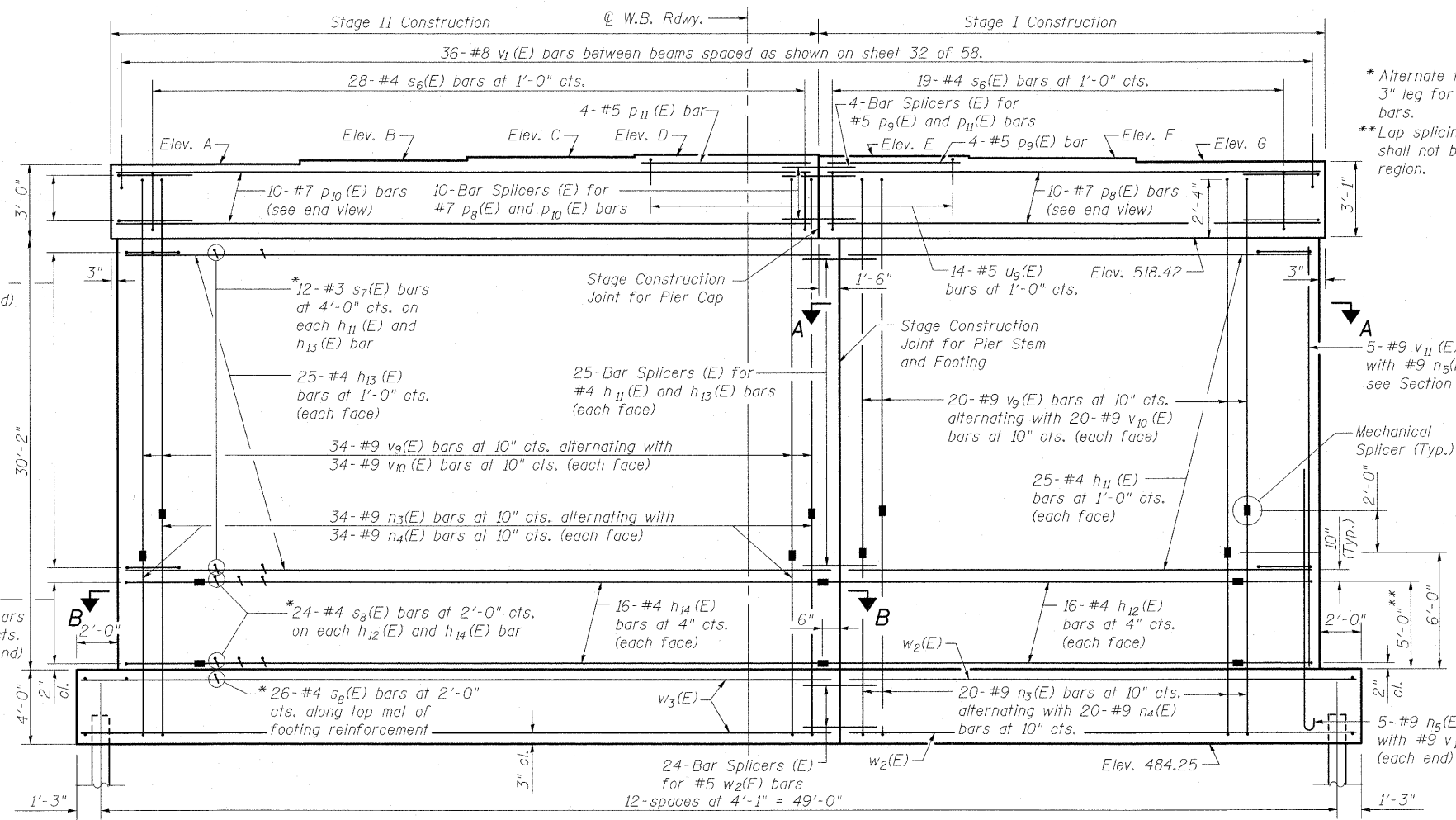
Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles, see sheet 50 of 58.
Clear cover noted to mechanical splicer, where applicable.
See sheet 47 of 58 for Bar Details.
See sheet 48 of 58 for Footing Plan
For Anchor Bolt and Side Retainer details see sheet 32 of 58.
For details $v_1(E)$ bars see sheet 32 of 58.
See sheet 49 of 58 for Bar Splicer and Mechanical Splicer details.

PILE DATA

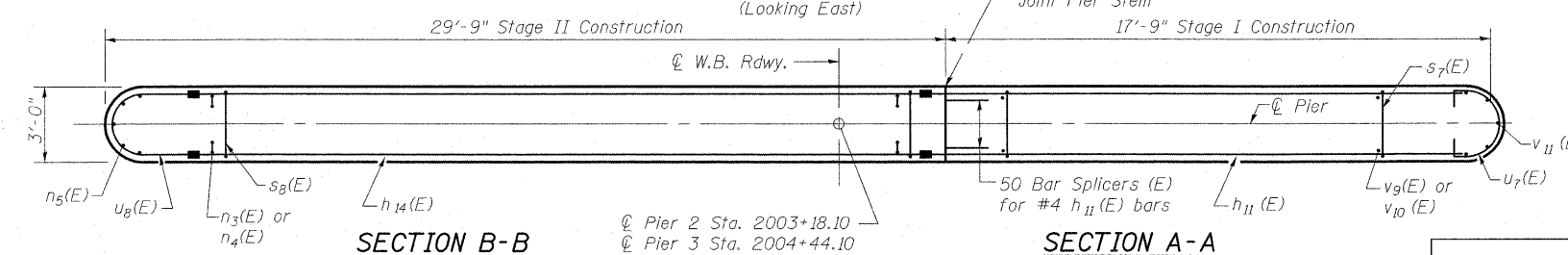
Type: HP 14x73
Nominal Required Bearing: 578k
Factored Resistance Available: 289k
Est. Length: 70'-0" Pier 2
51'-0" Pier 3
No. Production Piles: 38 per Pier
No. Test Piles: 1 per Pier
Top of Pile Elevation = 486.26



TOP PLAN



ELEVATION
(Looking East)



SECTION B-B

SECTION A-A

ELEVATION DATA

Elev.	Pier 2	Pier 3
A	521.42	521.42
B	521.57	521.55
C	521.71	521.68
D	521.81	521.76
E	521.74	521.76
F	521.66	521.65
G	521.50	521.51

STEP HEIGHTS

Elev.	Pier 2	Pier 3
A to B	+1 3/4"	+1 1/2"
B to C	+1 3/4"	+1 5/8"
C to D	+1 1/8"	+1"
D to E	-3/4"	0"
E to F	-1"	-1 3/8"
F to G	-1 1/8"	-1 5/8"

BILL OF MATERIAL FOR FOUR PIERS

Bar	No.	Size	Length	Shape
$h_{11}(E)$	200	#4	16'-0"	—
$h_{12}(E)$	128	#4	16'-3"	—
$h_{13}(E)$	200	#4	28'-0"	—
$h_{14}(E)$	128	#4	27'-3"	—
$n_3(E)$	432	#9	11'-0"	U
$n_4(E)$	432	#9	13'-0"	U
$n_5(E)$	40	#9	11'-7"	U
$p_8(E)$	40	#7	17'-6"	—
$p_9(E)$	16	#5	5'-4"	—
$p_{10}(E)$	40	#7	26'-6"	—
$p_{11}(E)$	16	#5	7'-7"	—
$s_6(E)$	188	#4	12'-5"	□
$s_7(E)$	1200	#3	3'-4"	U
$s_8(E)$	1640	#4	3'-4"	U
$t_1(E)$	824	#7	12'-6"	—
$u_6(E)$	24	#4	7'-8"	U
$u_7(E)$	200	#4	10'-7"	U
$u_8(E)$	128	#4	5'-3"	U
$u_9(E)$	56	#5	5'-2"	U
$v_1(E)$	144	#8	4'-2"	U
$v_9(E)$	432	#9	27'-9"	U
$v_{10}(E)$	432	#9	25'-9"	U
$v_{11}(E)$	40	#9	29'-11"	—
$w_2(E)$	96	#5	19'-3"	—
$w_3(E)$	96	#5	31'-3"	—
Concrete Structures	Cu. Yd.		1103.8	
Reinforcement Bars, Epoxy Coated	Pound		168600	
Furnishing Steel Piles, HP 14x73	Foot		9196	
Driving Piles	Foot		9196	
Test Piles, Steel HP 14x73	Each		4	
Bar Splicers	Each		352	
Anchor Bolts, 1 1/4"	Each		16	
Mechanical Splicers	Each		1248	

**PIER 2 & 3 (W.B.)
STRUCTURE NO. 025-0108**

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

BERNARDIN LOCHMUELLER & ASSOCIATES, INC.
3 Oak Drive
Maryville, IL 62452-5635
Local: (618) 288-4666
Fax: 618-288-4666

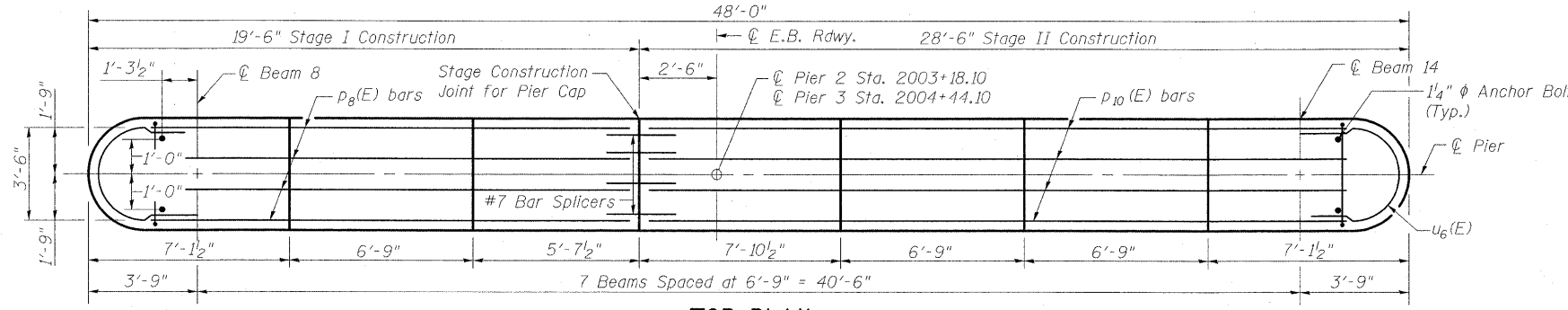
SHEET NO. 46 58 SHEETS	F.A.I. RTE. 70	SECTION (25-3)B	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 78
	SN 025-0108		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

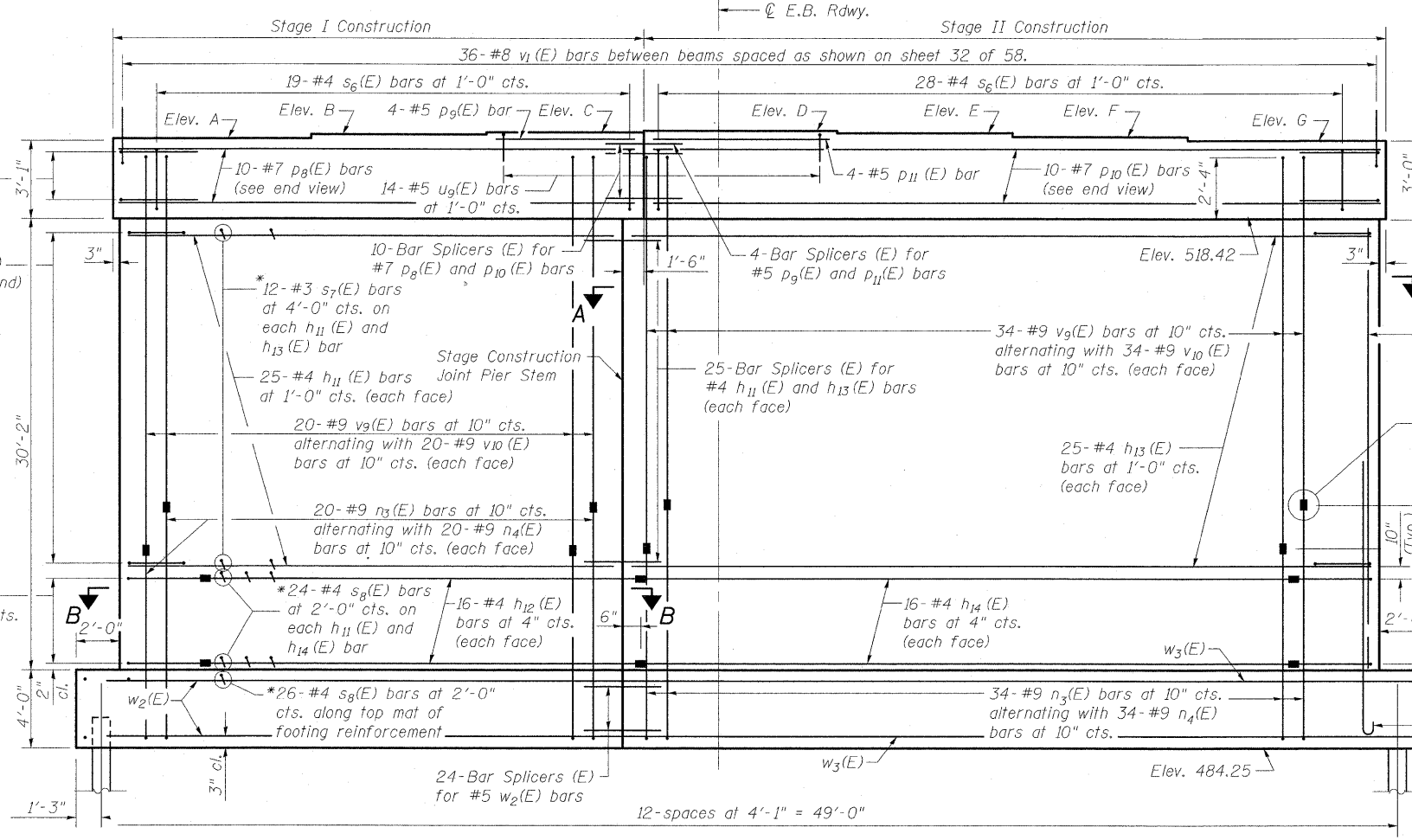
Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles, see sheet 50 of 58.
Clear cover noted to mechanical splicer, where applicable.
See sheet 46 of 58 for Bill of Materials.
See sheet 48 of 58 for Footing Plan
For Anchor Bolt and Side Retainer details see sheet 32 of 58.
For details v₁(E) bars see sheet 32 of 58.
See sheet 49 of 58 for Bar Splicer and Mechanical Splicer details.

PILE DATA

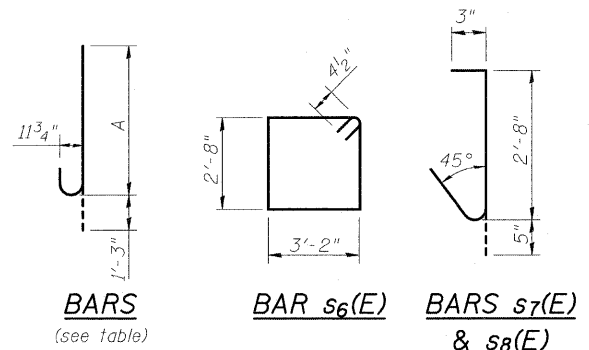
Type: HP 14x73
Nominal Required Bearing: 578k
Factored Resistance Available: 289k
Est. Length: 70'-0" Pier 2
51'-0" Pier 3
No. Production Piles: 38 per Pier
No. Test Piles: 1 per Pier
Top of Pile Elevation = 486.34



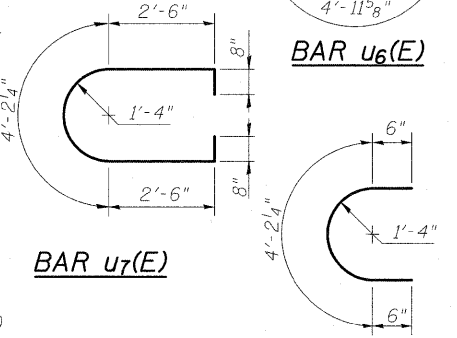
TOP PLAN



ELEVATION
(Looking East)



Bar	Dim. A
v ₉ (E)	26'-6"
v ₁₀ (E)	24'-6"
n ₃ (E)	9'-9"
n ₄ (E)	11'-9"
n ₅ (E)	10'-4"

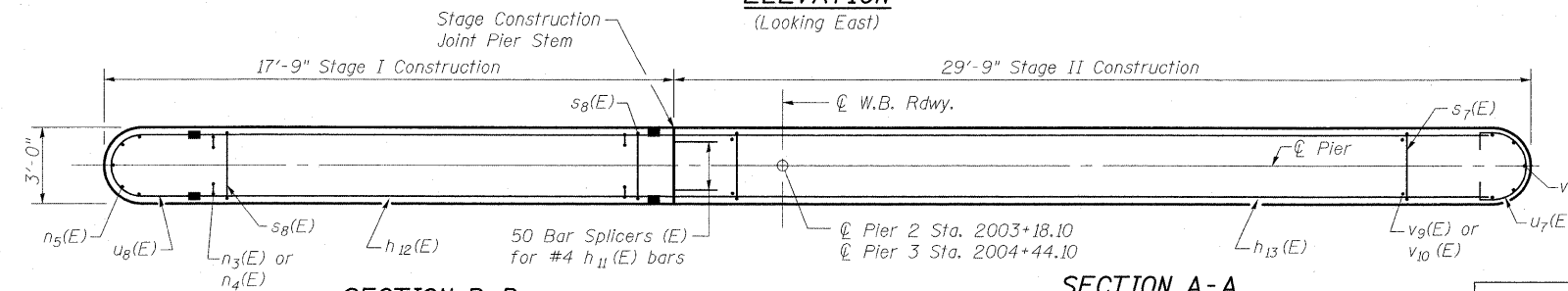
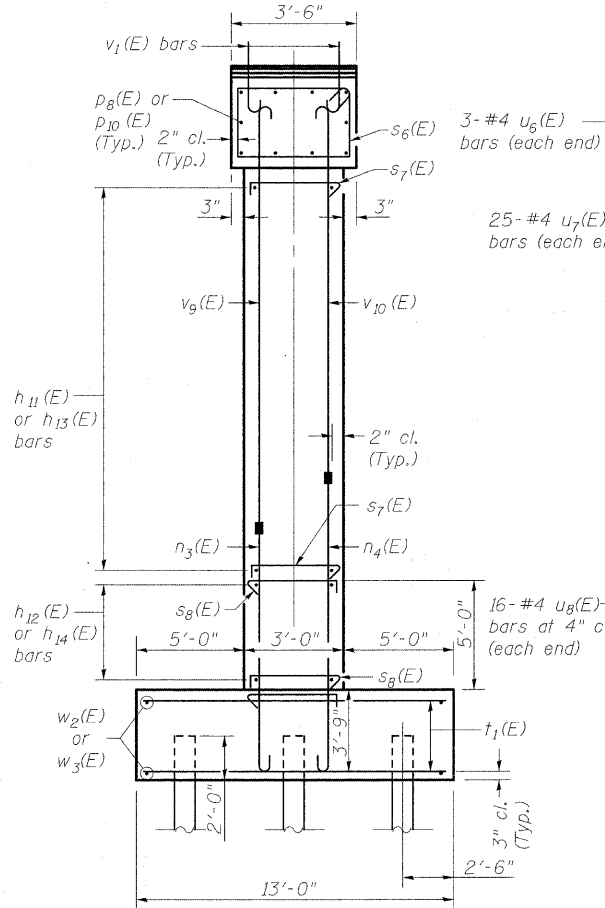


ELEVATION DATA

Elev.	Pier 2	Pier 3
A	521.50	521.51
B	521.66	521.65
C	521.74	521.76
D	521.80	521.76
E	521.71	521.68
F	521.56	521.54
G	521.42	521.42

STEP HEIGHTS

Elev.	Pier 2	Pier 3
A to B	+1 ⁷ / ₈ "	+1 ⁵ / ₈ "
B to C	+1"	+1 ³ / ₈ "
C to D	+3 ⁴ / ₈ "	0"
D to E	-1 ¹ / ₈ "	-1"
E to F	-1 ³ / ₄ "	-1 ⁵ / ₈ "
F to G	-1 ³ / ₄ "	-1 ¹ / ₂ "



DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.



**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

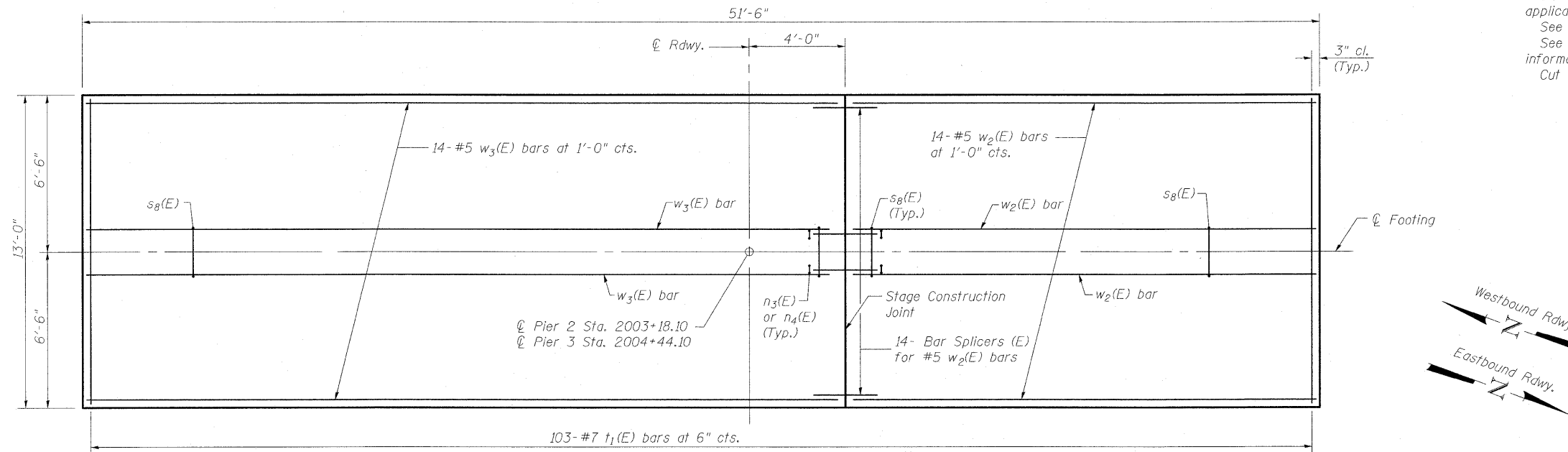
3 Oak Drive
Maryville, IL 62442-5635
Local (618) 288-4855
Fax 618-288-4666

SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
47	70	(25-3)B	EFFINGHAM	1416	79
58 SHEETS			SN 025-0107		CONTRACT NO. 74296
FED. ROAD DIST. NO. 7 [ILLINOIS] FED. AID PROJECT 70					

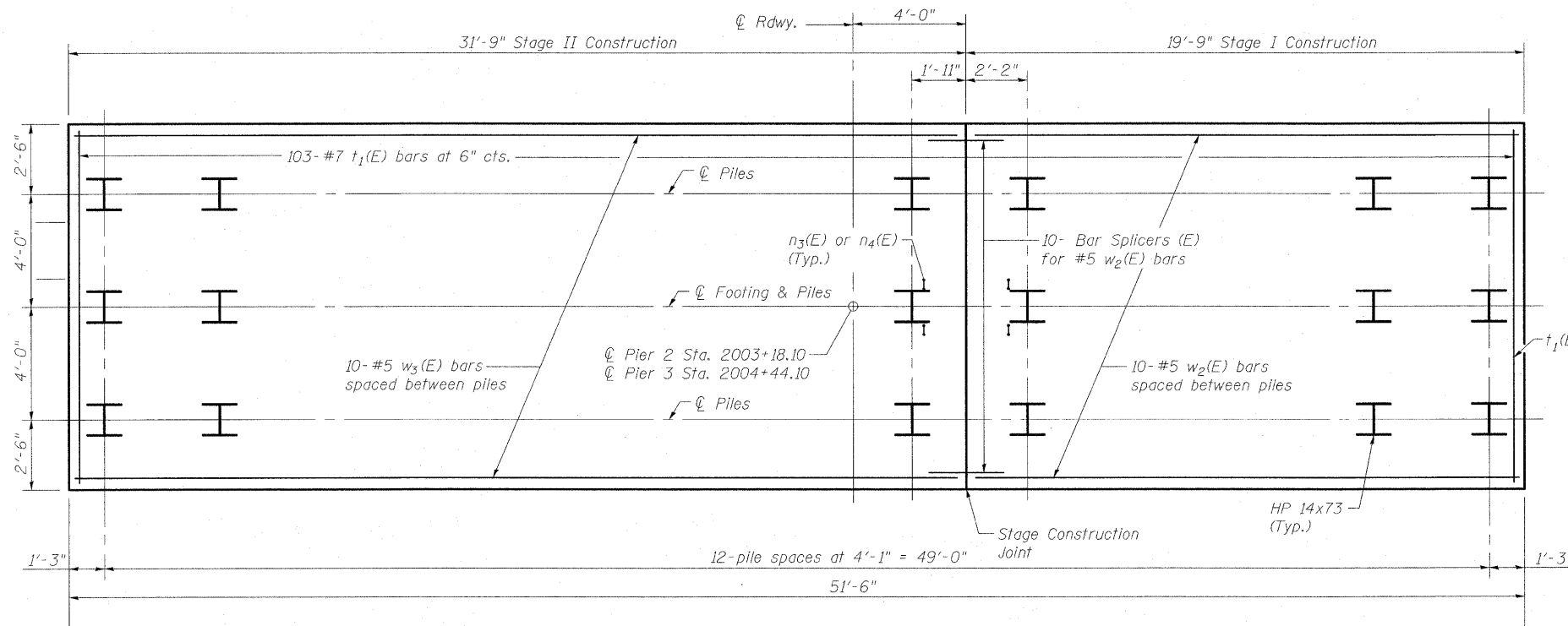
**PIER 2 & 3 (E.B.)
STRUCTURE NO. 025-0107**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Notes:
For details of piles, see sheet 50 of 58.
Clear cover noted to Mechanical Splice, where applicable.
See sheet 46 of 58 for Bill of Material.
See sheets 46 and 47 of 58 for additional information.
Cut bottom footing bars to fit between piles.



FOOTING PLAN
(showing top of footing)



FOOTING PLAN
(showing bottom of footing)

PIER 2 & 3
FOOTING PLAN
S.N. 025-0107 & 025-0108

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

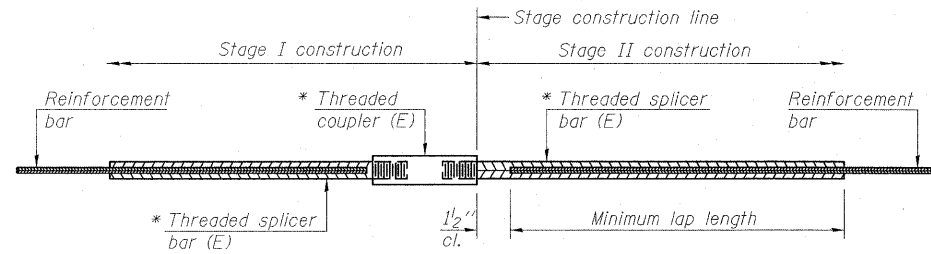


**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62962-5635
Local (618) 288-4985
Fax: 618-288-4696

SHEET NO. 48 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	80
SN 025-0107 & 025-0108			CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



STANDARD BAR SPLICER ASSEMBLY

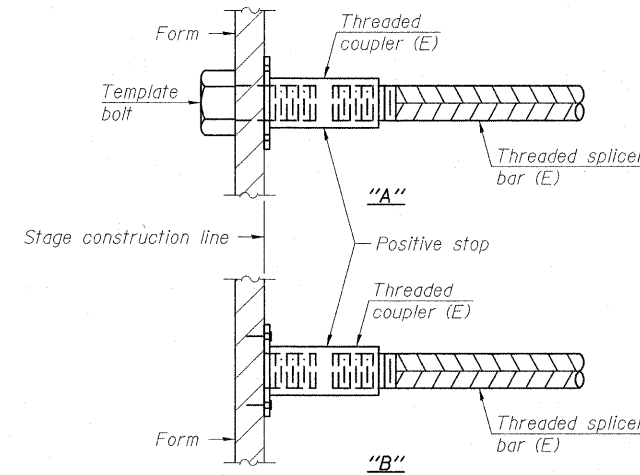
Bar size to be spliced	Minimum Lap Lengths			
	Table 1	Table 2	Table 3	Table 4
3, 4	1'-5"	1'-11"	2'-1"	2'-4"
5	1'-9"	2'-5"	2'-7"	2'-11"
6	2'-1"	2'-11"	3'-1"	3'-6"
7	2'-9"	3'-10"	4'-2"	4'-8"
8	3'-8"	5'-1"	5'-5"	6'-2"
9	4'-7"	6'-5"	6'-10"	7'-9"

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

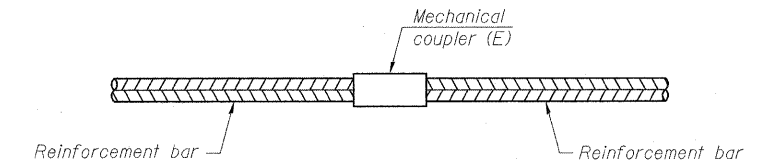
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Bridge Deck	#5	2690	3
Approach Slab	#4	100	3
Approach Slab	#5	344	3
Abutment Diaphragm	#5	4	3
Abutments	#5	56	3
Abutments Hatch Block	#6	20	3
Abutments	#7	48	3
Piers 1 & 4	#4	64	3
Piers 1 & 4	#5	12	3
Piers 1 & 4	#7	28	3
Piers 2 & 3	#4	200	3
Piers 2 & 3	#5	16	3
Piers 2 & 3	#7	40	3
Piers 2 & 3 Footing	#5	40	3
Piers 2 & 3 Footing	#5	56	4



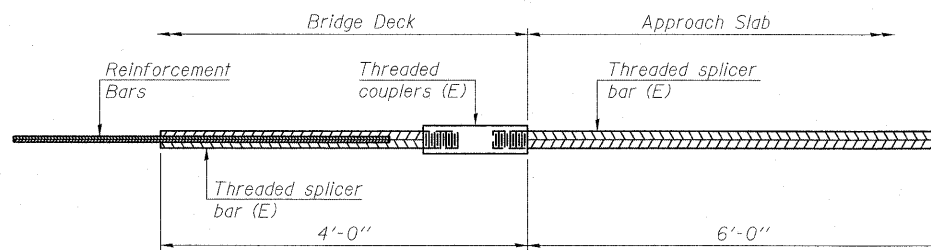
INSTALLATION AND SETTING METHODS

"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.



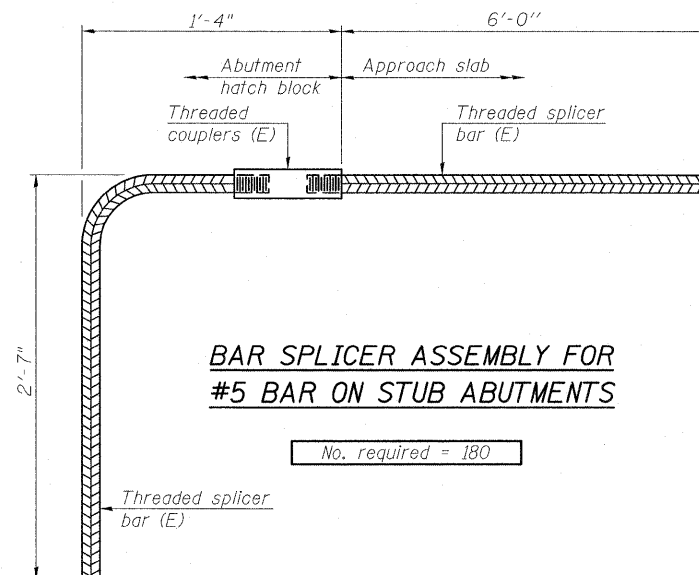
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
Abutment Diaphragm	#6	12
Pier Diaphragm	#6	16
Pier Diaphragm	#4	80
Piers 1 & 4	#4	192
Piers 2 & 3	#4	384
Piers 2 & 3	#9	864



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

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required = 180

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 AND MECHANICAL SPLICER DETAILS
S.N. 025-0107 & 025-0108

DESIGNED	
CHECKED	
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

BSD-1

11-1-09

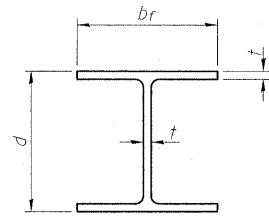


BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

3 Oak Drive
Maryville, IL 62062-5635
Local (618) 258-4955
Fax 618-288-4666

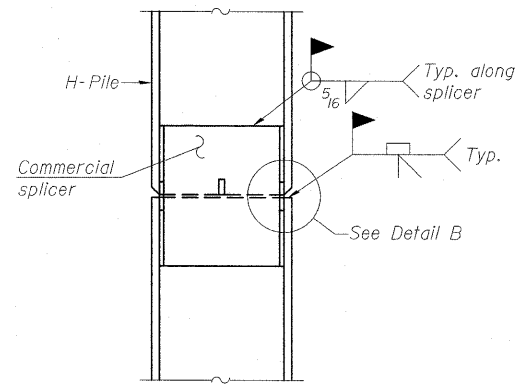
SHEET NO. 49 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	81
SN 025-0107 & 025-0108		CONTRACT NO. 74296			
FED. ROAD DIST. NO. 7 [ILLINOIS] FED. AID PROJECT 70					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

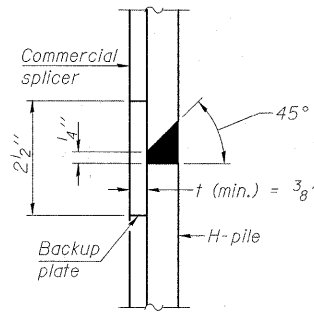


STEEL PILE TABLE

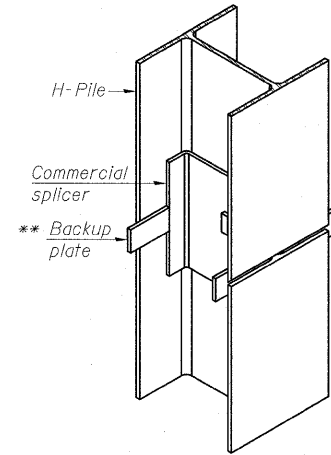
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	11/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	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 3/8"	7/16"	18"



ELEVATION

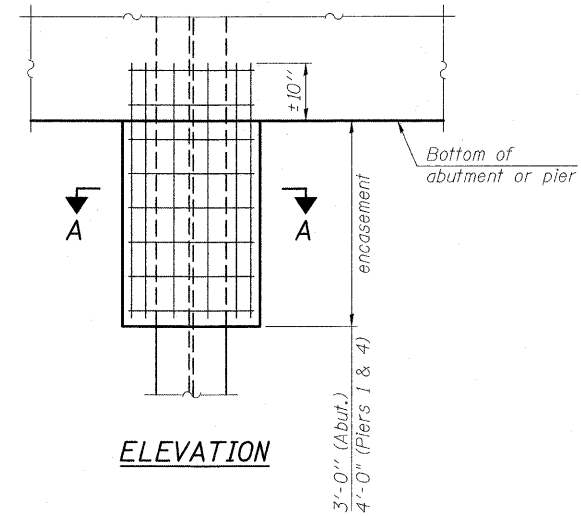


DETAIL "B"



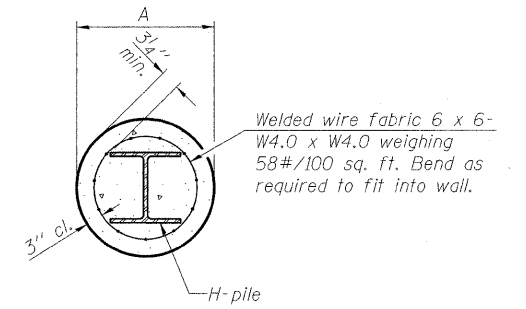
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



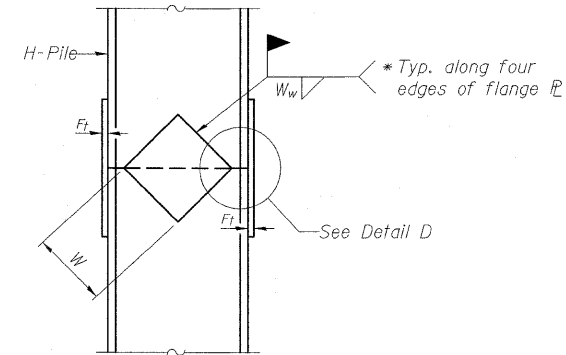
ELEVATION

PILE ENCASEMENT

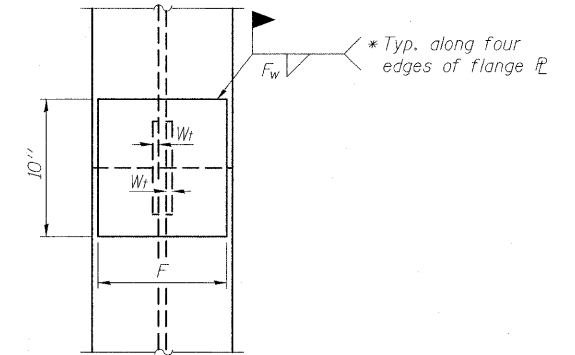


SECTION A-A

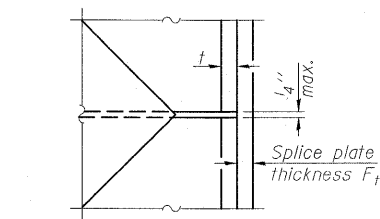
Note:
Forms for encasement may be omitted when soil conditions permit.



ELEVATION



END VIEW



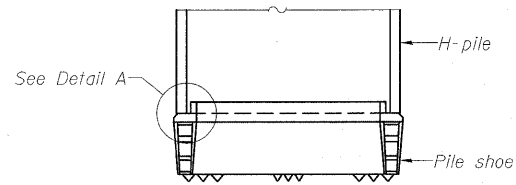
DETAIL D

Designation	F	F _t	F _w	W	W _t	W _w
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"	11/16"	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"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	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"

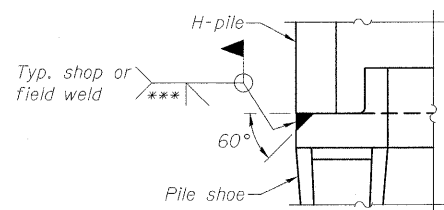
WELDED PLATE FIELD SPLICE

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

HP PILE DETAILS
STRUCTURE NO.

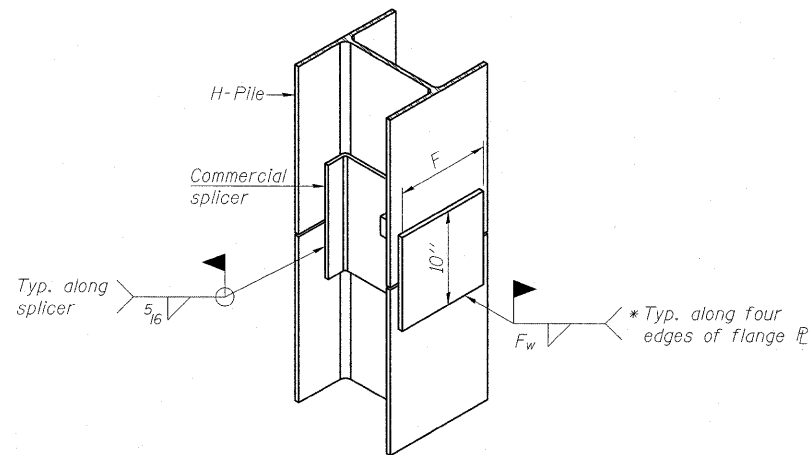


ELEVATION



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.).



BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

3 Oak Drive
Maryville, IL 62062-5635
Local (618) 338-4965
Fax 618-388-4666

DESIGNED	B.B.
CHECKED	A.C.S.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

SHEET NO. 50	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	82
58 SHEETS	SN 025-0107 & 025-0108		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 4
Date 9/20/07

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandbacher

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RNG. 5 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-00090010
Station 2003+70

BORING NO. 1 W Abut
Station 2001+32
Offset 9.00ft LL
Ground Surface Elev. 525.75 ft

DEPTH (ft)	(ft)	(6")	(12")	(%)	DESCRIPTION	(ft)	(6")	(12")	(%)
0					Topsoil				
0					Hard to medium, damp, brown, CLAY LOAM TILL.				
12					Soft, very damp, gray, SILTY LOAM. (continued)				
16	+4.5	8			Soft, very damp, gray, SANDY LOAM.				
20	PP								
3									
4	0.8	15			Very loose, wet, brown, GRAVELLY SAND. 5% passing #200 sieve.				
5	B								
6	1.0	14			Medium to stiff, damp, gray, LOAM				
7	B				Gravel w/some Sand. 2% passing #200 sieve.				
2									
3	1.0	16			12% passing #200 sieve.				
5	B								
4	1.9	15							
7	B								
3									
7	2.1	15			Medium, fine grained, 8% passing #200 sieve.				
7	B								
2					Gray, fine grained, SAND.				
2	0.4	24			Soft, very damp, gray, SANDY LOAM.				
2	B								
2									

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

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 4
Date 9/20/07

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandbacher

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RNG. 5 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-00090010
Station 2003+70

BORING NO. 1 W Abut
Station 2001+32
Offset 9.00ft LL
Ground Surface Elev. 525.75 ft

DEPTH (ft)	(ft)	(6")	(12")	(%)	DESCRIPTION	(ft)	(6")	(12")	(%)
0					Surface Water Elev. 499.46 ft				
0					Stream Bed Elev. 496.46 ft				
0					Groundwater Elev. 498.8 ft				
0					First Encounter Upon Completion Washed ft				
0					After 24 Hrs. 501.3 ft				
8	3.9	12			Very stiff, damp, gray, CLAY LOAM TILL.				
13	B								
3									
5	1.5	13							
8	B								
2					Stiff, damp, gray, CLAY TILL.				
3	1.2	19							
5	B								
1									

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

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 3 of 4
Date 9/20/07

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandbacher

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RNG. 5 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-00090010
Station 2003+70

BORING NO. 1 W Abut
Station 2001+32
Offset 9.00ft LL
Ground Surface Elev. 525.75 ft

DEPTH (ft)	(ft)	(6")	(12")	(%)	DESCRIPTION	(ft)	(6")	(12")	(%)
0					Surface Water Elev. 499.46 ft				
0					Stream Bed Elev. 496.46 ft				
0					Groundwater Elev. 498.8 ft				
0					First Encounter Upon Completion Washed ft				
0					After 24 Hrs. 501.3 ft				
3	0.7	24			Medium, damp, dark gray, SILTY CLAY. (continued)				
5	B								
4	1.0	19							
5	B								
3									
4	1.0	22			Medium to stiff, damp, gray, LOAM.				
4	B								
2									
2					Stiff, damp, gray, SILTY CLAY.				

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

BBS, from 137 (Rev. 8-99)

DESIGNED
CHECKED
DRAWN W.J.S.
CHECKED C.J.F. & B.B.



BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

3 Oak Drive
Maryville, IL 62062-5635
Local (618) 288-4655
Fax 618-288-4666

SHEET NO. 51 58 SHEETS	F.A.I. RTE. 70	SECTION (25-3)B	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 83
	SN 025-0107 & 025-0108		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

BORING LOGS
S.N. 025-0107 & 025-0108

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROCK CORE LOG Page 4 of 4 Date 9/20/07

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sanduschafer

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RNG. 5 E, 3 PM

COUNTY Effingham CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 025-00990010 CORING BARREL TYPE & SIZE NW, conv dhl bbl, split inner

Station 2003+70 Core Diameter 2.06 in

BORING NO. 1 W Abut. Top of Rock Elev. 424.85 ft

Station 2001+92 Begin Core Elev. 420.75 ft

Offset 2.00 ft

Ground Surface Elev. 525.75 ft

DEPTH (ft)	DESCRIPTION	(R)	(%)	(%)	(min/ft)	(tsf)
430.75	Gray, SANDSTONE.	87	80	0.5		
Rock Core BIC1 at depth 107.06' to 107.60' = 255.7 tsf Qu.						
415.75	Gray, slightly weathered, SANDY CLAY SHALE.	95	25	0.4		
414.85	Gray, moderately weathered, SANDSTONE.					
413.05	(CLAY SHALE seam.					
412.95	Gray, severely weathered, SANDSTONE.					
411.02	Rock Core BIC2 at depth 114.2' to 114.7' = 146.6 tsf Qu.					
410.75	No recovery.					
410.75	Extent of exploration.					
409.49	Very soft, very damp, brown, SANDY LOAM.					
406.99	Soft, damp, gray, SILTY LOAM.					
405.99	Loose, wet, gray, fine grained, SAND.					
400	7% passing #200 sieve.					

Benchmark: BM 551 Chiseled Square on top of slope wall on East side of Little Wabash River, Station 2005+75 L4 25.7' = 621.58' elevation. Provided by Program Development.

Color pictures of the cores Available on request

Cores will be stored for examination until 09/20/08

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

SOIL BORING LOG Page 1 of 4 Date 9/24/07

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sanduschafer

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RNG. 5 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-00990010 Station 2003+70

BORING NO. 2 Station 2002+50

Offset 72.00 ft

Ground Surface Elev. 511.49 ft

DEPTH (ft)	DESCRIPTION	(R)	(6")	(tsf)	(%)	(R)	(6")	(tsf)	(%)
9	Very stiff, very moist, brown, SANDY LOAM.								
5									
4									
4	Stiff, damp, gray, CLAY TILL.								
5									
5									
505.99	Soft to medium, damp, brown, SILTY LOAM.								
1									
3									
3									
2									
2									
2									
2									
1									
2									
2									
409.49	Very soft, very damp, brown, SANDY LOAM.								
1									
0									
406.99	Soft, damp, gray, SILTY LOAM.								
2									
2									
405.99	Loose, wet, gray, fine grained, SAND.								
8									
0									
1									
4									
4									

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

BBS, form 137 (Rev. 8-99)

SOIL BORING LOG Page 2 of 4 Date 9/24/07

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sanduschafer

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RNG. 5 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-00990010 Station 2003+70

BORING NO. 2 Station 2002+50

Offset 72.00 ft

Ground Surface Elev. 511.49 ft

DEPTH (ft)	DESCRIPTION	(R)	(6")	(tsf)	(%)	(R)	(6")	(tsf)	(%)
3	Stiff, damp, gray, CLAY TILL. (continued)								
4									
10									
21									
41.99	Very soft, very damp, gray, SILTY LOAM. (continued)								
3									
1.0									
4									
1									
1									
3									
3									
4									
4									
2									
4									
7									
2									
4									
6									
3									
3									
6									
8									
441.99	Very stiff, damp, brown, CLAY.								
1									
6									
2.2									
33									
440.99	Stiff, damp, brown, SILTY LOAM. With organics.								
12									
12									
1									

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

BBS, form 137 (Rev. 8-99)

DESIGNED	
CHECKED	
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

BORING LOGS
S.N. 025-0107 & 025-0108



**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62962-5635
Local (618) 288-4665
Fax (618) 288-4666

SHEET NO. 52	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	84
58 SHEETS	SN 025-0107 & 025-0108		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 3 of 4
Date 9/24/07

ROUTE FAL 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandbacher

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RING. 5 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-00090010
Station 2003+70

BORING NO. 2
Station 2002+50
Offset 72.00# Rt
Ground Surface Elev. 511.49 ft

DEPTH (ft)	DEPTH (6")	DEPTH (12")	DEPTH (%)	DESCRIPTION	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	After (Hrs.)
0	3	1.2	18	Stiff, damp, brown, SILTY LOAM. With organics. (continued)	499.46	496.46				
50	5	B								
50.2				Very dense, moist, gray, SANDSTONE.						
50.0				Borehole continued with rock coring.						

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

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

ROCK CORE LOG

Page 4 of 4
Date 9/24/07

ROUTE FAL 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandbacher

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RING. 5 E, 3 PM

COUNTY Effingham CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 025-00090010 CORING BARREL TYPE & SIZE NW, conv dbi bbl, split inner
Station 2003+70

BORING NO. 2
Station 2002+50
Offset 72.00# Rt
Ground Surface Elev. 511.49 ft

DEPTH (ft)	DEPTH (%)	DEPTH (%)	DEPTH (min ft)	DEPTH (tsf)	DESCRIPTION
496.79	94	58	0.6		Gray, slightly weathered, SANDSTONE, scratches easily.
496.69					Gray, slightly weathered, SANDY CLAY SHALE.
493.99					Rock core sample E2C1 from 87.2' to 87.7' depth = 21.8 tsf Qu.
493.99					Gray, hard, SANDSTONE, does not scratch easily.
491.99	100	94	0.8		Gray, slightly weathered, SANDY CLAY SHALE.
490.89					Gray, slightly weathered, SANDSTONE, scratches easily.
490.89					Rock core sample E2C2 from 90.8' to 91.4' depth = 185.3 tsf Qu.
489.89					Gray, slightly weathered, SANDY CLAY SHALE.
489.89					Gray, slightly weathered, SANDSTONE, scratches easily.
487.89					Gray, slightly weathered, SILTY CLAY SHALE.
486.79					Extent of exploration.

Benchmark: BM 551 Chiseled Square on top of slopewall in median, on East side of Little Wabash River, Station 2005+75 LA 25.7' = 521.53' elevation. Provided by Program Development.

Color pictures of the cores Available on request
Cores will be stored for examination until 9/24/08
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-3938)

BBS, form 138 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 4
Date 9/21/07

ROUTE FAL 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandbacher

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RING. 5 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-00090010
Station 2003+70

BORING NO. 3
Station 2002+75
Offset 73.00# Lt
Ground Surface Elev. 510.41 ft

DEPTH (ft)	DEPTH (6")	DEPTH (12")	DEPTH (%)	DESCRIPTION	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	After (Hrs.)
508.9	11	5.0	10	Riprap and Sandy Loam.	499.46	496.46				
508.9	15	B		Very stiff, damp, gray, CLAY LOAM TILL. (continued)						
508.9	5									
508.9	8	3.0	11							
508.9	11	B								
505.91	5			Hard, very moist, dark brown, SILTY CLAY.						
505.91	7	+4.5	10							
505.91	7	PP								
503.11	4			Very soft, very moist, brown, SANDY LOAM.						
502.41	4	0.1	9							
502.41	3	S		Loose, wet, brown to gray, fine grained, SAND, 5% passing #200 sieve.						
502.41	1									
502.41	2		21	6% passing #200 sieve.						
502.41	2									
502.41	2		20	7% passing #200 sieve.						
502.41	4									
502.41	0									
502.41	2		12	Gravelly, 10% passing #200 sieve.						
502.41	4									
502.41	7									
502.41	8	2.8	10	Very stiff, damp, gray, CLAY LOAM TILL.						
502.41	6	B								
502.41	8									

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

BBS, form 137 (Rev. 8-99)

DESIGNED	
CHECKED	
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

BORING LOGS
S.N. 025-0107 & 025-0108



**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62062-5635
Local (618) 288-4665
Fax 618-288-4666

SHEET NO. 53	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	85
58 SHEETS	SN 025-0107 & 025-0108		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT 70		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG

Page 2 of 4
Date 9/21/07

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandschafer

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RNG. 5 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-0099010 D B U M E L C O Surface Water Elev. 499.46 ft D B U M
Station 2003+70 P O S I Stream Bed Elev. 496.46 ft E L C O
BORING NO. 3 T W S Groundwater Elev.: H S Qu T H S Qu T
Station 2002+75 H S Qu T First Encounter 501.4 ft H S Qu T
Offset 73.00# L4 Upon Completion 503.8 ft H S Qu T
Ground Surface Elev. 510.41 ft (ft) (6") (tsf) (%) After 72 Hrs. 503.9 ft (ft) (6") (tsf) (%)

Medium to stiff, damp, gray, CLAY LOAM TILL	4	1.2	19	Very stiff, damp, gray-brown, SILTY CLAY. (continued)	6	3.1	58
	6	B			8	B	
Sample disturbed, unable to obtain Qu.	2						
	4		19				
	5						
Very stiff, damp, gray-brown, SILTY CLAY	4			Medium, damp, gray, SANDY LOAM	6		
	5	2.2	50		9	0.9	18
	6	B			13	B	

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

BBS, form 137 (Rev. 8-99)

SOIL BORING LOG

Page 3 of 4
Date 9/21/07

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandschafer

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RNG. 5 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-0099010 D B U M E L C O Surface Water Elev. 499.46 ft D B U M
Station 2003+70 P O S I Stream Bed Elev. 496.46 ft E L C O
BORING NO. 3 T W S Groundwater Elev.: H S Qu T H S Qu T
Station 2002+75 H S Qu T First Encounter 501.4 ft H S Qu T
Offset 73.00# L4 Upon Completion 503.8 ft H S Qu T
Ground Surface Elev. 510.41 ft (ft) (6") (tsf) (%) After 72 Hrs. 503.9 ft (ft) (6") (tsf) (%)

Medium, damp, gray, SANDY LOAM. Rock is sampler shoe, unable to obtain Qu.	6						
	8						
Very dense, moist, gray, SANDY CLAY SHALE	501'						
	500"						
Borehole continued with rock coring.	500"						

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

BBS, form 137 (Rev. 8-99)

ROCK CORE LOG

Page 4 of 4
Date 9/21/07

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandschafer

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RNG. 5 E, 3 PM

COUNTY Effingham CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 025-0099010 CORING BARREL TYPE & SIZE NW, conv dbl bbl, split inner
Station 2003+70
BORING NO. 3 Core Diameter 2.06 in
Station 2002+75 Top of Rock Elev. 420.91 ft
Offset 73.00# L4 Begin Core Elev. 420.81 ft
Ground Surface Elev. 510.41 ft

DEPTH (ft)	DESCRIPTION	UCS (tsf)	RECOVERY (%)	REMARKS
420.81 - 420.91	Gray, slightly weathered, SANDY CLAY SHALE	96	67	0.9
418.31	Rock core B3C1 from 91.1' to 91.6' depth = 92.2 tsf Qu.			
418.31	Gray, slightly weathered, SANDSTONE			
417.21	Gray, slightly weathered, SANDY CLAY SHALE			
415.81	Gray, SILTY CLAY SHALE	56	11	0.3
414.71	Rock core B3C2 from 95.2' to 95.7' depth = 9.2 tsf Qu.			
414.31	Gray, moderately weathered, SANDSTONE			
413.81	Alternating thin layers on SANDSTONE and SILTY CLAY SHALE.			
413.81	Gray, moderately weathered, SANDSTONE			
410.81	No Recovery.			
410.81	Extent of exploration.			

Benchmark: EM 551 Chiseled Square on top of slope wall in median, on East side of Little Wabash River, Station 2005+75 L4 25.7' = 521.58' elevation. Provided by Program Development.

Color pictures of the cores Available on request
Cores will be stored for examination until 9/21/08
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

DESIGNED	
CHECKED	
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

BERNARDIN LOCHMUELLER & ASSOCIATES, INC.
3 Oak Drive
Maryville, IL 62962-5635
Local (618) 288-4665
Fax (618) 288-4666

SHEET NO. 54	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	86
58 SHEETS	SN 025-0107 & 025-0108		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

BORING LOGS
S.N. 025-0107 & 025-0108

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 3
Date 9/28/07

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandschafer

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RNG. 5 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-00090010
Station 2003+70

BORING NO. 4
Station 2004+44
Offset 74.00ft. Rt.
Ground Surface Elev. 509.79 ft.

DEPTH (ft.)	SOIL DESCRIPTION	D (%)	B (%)	U (%)	M (%)	DEPTH (ft.)	D (%)	B (%)	U (%)	M (%)
18	Surface Water Elev. <u>499.46</u> ft					18				
22	Stream Bed Elev. <u>496.46</u> ft					22				
	Groundwater Elev.: First Encounter <u>492.8</u> ft Upon Completion <u>504.3</u> ft After 48 Hrs. <u>500.8</u> ft									
	Dense, wet, gray, SAND w/ Gravel, 6% passing #200 sieve. (continued)									
487.79										
	Shift to very stiff, damp, gray, SILTY CLAY TILL									
505.29										
	Medium to loose, very moist, brown, fluffy, SAND, 2% passing #200 sieve.									
	5% passing #200 sieve.									
499.89										
499.19	Gray, SILTY LOAM									
	Brown, SAND.									
497.79										
	Very soft, damp, gray, SILTY LOAM.									
495.29										
	Very soft, very damp, gray, SANDY LOAM.									
492.79										
	Very loose, wet, brown, fine grained, SAND, 2% passing #200 sieve.									
490.29										

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

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 3
Date 9/28/07

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandschafer

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RNG. 5 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-00090010
Station 2003+70

BORING NO. 4
Station 2004+44
Offset 74.00ft. Rt.
Ground Surface Elev. 509.79 ft.

DEPTH (ft.)	SOIL DESCRIPTION	D (%)	B (%)	U (%)	M (%)	DEPTH (ft.)	D (%)	B (%)	U (%)	M (%)
1	Surface Water Elev. <u>499.46</u> ft					1				
3	Stream Bed Elev. <u>496.46</u> ft					3				
	Groundwater Elev.: First Encounter <u>492.8</u> ft Upon Completion <u>504.3</u> ft After 48 Hrs. <u>500.8</u> ft									
	Medium, damp, brown, SILTY LOAM, highly organic and many wood chunks. (continued)									
485.29										
	Shift, damp, gray, SILTY CLAY TILL									
440.29										
	Very dense, moist, gray, SANDY CLAY SHALE									
439.79										
	Borehole continued with rock coring.									
450.29										

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

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

ROCK CORE LOG

Page 3 of 3
Date 9/28/07

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandschafer

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RNG. 5 E, 3 PM

COUNTY Effingham CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 025-00090010
Station 2003+70

BORING NO. 4
Station 2004+44
Offset 74.00ft. Rt.
Ground Surface Elev. 509.79 ft.

DEPTH (ft.)	SOIL DESCRIPTION	D (%)	C (%)	O (%)	Q (%)	R (%)	S (%)	T (%)
	Gray, slightly weathered, SANDSTONE, scratches easily.							
439.79								
438.29								
	Gray, slightly weathered, SANDY CLAY SHALE.							
	Rock core B4C1 from 72.0' to 72.5' depth = 99.3 tsf Qu.							
435.29								
434.79	No Recovery.							
	Gray, slightly weathered, SANDY CLAY SHALE.							
	Rock core B4C2 from 78.0' to 78.5' depth = 26.4 tsf Qu.							
429.79								
	Extent of exploration.							
	Benchmark: BM 551 Chisled Square on top of slopewall in median, on East side of Little Wabash River, Station 2005+75 Lt 25.7' = 521.58' elevation. Provided by Program Development.							

Color pictures of the cores Available on request
Cores will be stored for examination until 9/28/08
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS form 138 (Rev. 8-99)

DESIGNED
CHECKED
DRAWN <u>W.J.S.</u>
CHECKED <u>C.J.F. & B.B.</u>

BERNARDIN LOCHMUELLER & ASSOCIATES, INC.
3 Oak Drive
Maryville, IL 62962-5635
Local (618) 288-4055
Fax (618) 288-4995

SHEET NO. 55	F.A.I. RTE. <u>70</u>	SECTION <u>(25-3)B</u>	COUNTY <u>EFFINGHAM</u>	TOTAL SHEETS <u>1416</u>	SHEET NO. <u>87</u>
58 SHEETS	SN 025-0107 & 025-0108		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

BORING LOGS
S.N. 025-0107 & 025-0108

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Page 1 of 3
Date 10/07

SOIL BORING LOG

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandschafer
SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RNG. 5 E, 3 PM
COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-00090010 D B U M E L C O P O S I T W S H S Qu T
Station 2003+70 Surface Water Elev. 499.46 ft 499.46 ft
Stream Bed Elev. 496.46 ft
BORING NO. 5 Groundwater Elev.: H S Qu T
Station 2005+35 First Encounter 494.8 ft
Offset 73.30ft L4 Upon Completion Washed ft
Ground Surface Elev. 511.82 ft After 24 Hrs. 499.8 ft

Description	D				B				U				M			
	(ft)	(#)	(%)	(%)	(ft)	(#)	(%)	(%)	(ft)	(#)	(%)	(%)	(ft)	(#)	(%)	(%)
Riprap and Sandy Loam.									1	0.1	25					
Very soft, wet, gray, SANDY LOAM w/many wood chunks. (continued)									0	S						
<u>499.82</u>																
Brown, wet, fine grained, SAND.									1							
Stiff, damp, gray, CLAY TILL.									2	1.5						
<u>498.82</u>									4	B						
<u>607.82</u>									4							
Medium, very moist, brown, SANDY LOAM w/ Sand. 5% passing #200 sieve.		4							7	1.2	16					
<u>504.82</u>									3	S						
Loose, moist to damp, brown, fluffy, fine grained, SAND. 5% passing #200 sieve.		1							3		5					
<u>497.82</u>									2							
7% passing #200 sieve.		3							8	1.2	15					
<u>497.02</u>									3	B						
With Gravel. 3% passing #200 sieve.		2							3							
<u>497.02</u>									1							
Very soft, wet, gray, SANDY LOAM w/many wood chunks.		1	0.1	23					4	1.4	19					
<u>471.82</u>									0	B						
<u>471.82</u>									1							
<u>471.82</u>									2	0.1	19					
<u>471.82</u>									3	B						
<u>471.82</u>									0							

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

BBS, from 137 (Rev. 8-99)

Page 2 of 3
Date 10/07

SOIL BORING LOG

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandschafer
SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RNG. 5 E, 3 PM
COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-00090010 D B U M E L C O P O S I T W S H S Qu T
Station 2003+70 Surface Water Elev. 499.46 ft 499.46 ft
Stream Bed Elev. 496.46 ft
BORING NO. 5 Groundwater Elev.: H S Qu T
Station 2005+35 First Encounter 494.8 ft
Offset 73.30ft L4 Upon Completion Washed ft
Ground Surface Elev. 511.82 ft After 24 Hrs. 499.8 ft

Description	D				B				U				M			
	(ft)	(#)	(%)	(%)	(ft)	(#)	(%)	(%)	(ft)	(#)	(%)	(%)	(ft)	(#)	(%)	(%)
Stiff, damp, gray, CLAY TILL.		5	1.2	20					4	1.3	18					
Stiff, damp, gray, CLAY LOAM TILL. (continued)		6	B						7	B						
<u>498.82</u>																
Medium, damp, gray, CLAY LOAM w/some Gravel.		1							3	0.8	15					
<u>443.32</u>									4	B						
Very dense, damp, gray marbled brown, SANDY LOAM TILL.									22							
<u>441.12</u>									50	59.5"						
Very dense, moist, gray, SANDY CLAY SHALE.									59.6"							
<u>436.82</u>									59.1"							
Borehole continued with rock coring.									59.0"							
<u>432.32</u>									4							

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

BBS, from 137 (Rev. 8-99)

Page 3 of 3
Date 10/07

ROCK CORE LOG

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandschafer
SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RNG. 5 E, 3 PM
COUNTY Effingham CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 025-00090010 CORING BARREL TYPE & SIZE NW, conv dth bbl, split inner
Station 2003+70 Core Diameter 2.06 in
BORING NO. 5 Top of Rock Elev. 441.12 ft
Station 2005+35 Begin Core Elev. 436.82 ft
Offset 73.30ft L4
Ground Surface Elev. 511.82 ft

Description	Elev. (ft)	Diameter (in)	Length (ft)	CORE				SPT (blows)
				Q	U	T	R	
Gray, slightly weathered, SANDY CLAY SHALE.	436.82			96	96	0.9		
Rock core B5C1 from 78.1' to 78.6' depth = 14.0 taf Qu.								
<u>432.02</u>								
No Recovery.	431.82			100	100	0.9		
Gray, slightly weathered, SANDY CLAY SHALE.								
Rock core B5C2 from 83.9' to 84.4' depth = 16.7 taf Qu.								
<u>426.82</u>								
Extent of exploration.								
Benchmark: BM 551 Chisled Square on top of slope wall in median, on East side of Little Wabash River, Station 2005+75 L4 25.7' = 521.58' elevation. Provided by Program Development.								

Color pictures of the cores Available on request
Cores will be stored for examination until 10/01/08
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 136 (Rev. 8-99)

DESIGNED
CHECKED
DRAWN W.J.S.
CHECKED C.J.F. & B.B.

**BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.**

3 Oak Drive
Maryville, IL 62068-5635
Local (618) 288-4065
Fax 618-288-4666

SHEET NO. 56 58 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	88
	SN 025-0107 & 025-0108			CONTRACT NO. 74296	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

BORING LOGS
S.N. 025-0107 & 025-0108

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG Page 1 of 4
Date 9/14/07

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandtschafer

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RNG. 5 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-00090010
Station 2003+70

BORING NO. 6 E Abut
Station 2006+04
Offset 6.00# Rt
Ground Surface Elev. 525.15 ft

D E P T H	B L O W S	U C S Q u T	M O S T L I Q u e r y	Description	Elev. (ft)	D B U M	E L C O	P O S I	T W S	H S Q u T	S P T	N
				Topsoil.	525.07							
				Hard, moist, brown marbled red, CLAY LOAM TILL.								
					503.15							
				Loose, damp, gray, fine grained, SAND, 5% passing #200 sieve.								
				Very stiff, damp, gray, SANDY CLAY LOAM TILL.								
					519.85							
				Stiff, damp, gray, SANDY LOAM.								
					518.15							
				Stiff, damp, gray, LOAM.								
					515.65							
				Medium, wet, gray, Gravelly SAND, 5% passing #200 sieve.								
				Stiff to very stiff, damp, gray, SANDY CLAY LOAM.								
					513.15							
				Soft, damp, gray, SANDY LOAM.								
					510.65							
				Very stiff, damp, gray, CLAY TILL w/few wood fragments.								
					509.35							
				Gray, fluffy, SAND.								
					508.15							
				Soft, damp, gray, SANDY LOAM to SILTY LOAM.								
					485.65							

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

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG Page 2 of 4
Date 9/14/07

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandtschafer

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RNG. 5 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-00090010
Station 2003+70

BORING NO. 6 E Abut
Station 2006+04
Offset 6.00# Rt
Ground Surface Elev. 525.15 ft

D E P T H	B L O W S	U C S Q u T	M O S T L I Q u e r y	Description	Elev. (ft)	D B U M	E L C O	P O S I	T W S	H S Q u T	S P T	N
				Stiff to very stiff, damp, gray, CLAY LOAM TILL. (continued)								
					503.15							
				Loose, damp, gray, fine grained, SAND, 5% passing #200 sieve.								
				Very stiff, damp, gray, SANDY CLAY LOAM TILL.								
					519.85							
				Stiff, damp, gray, SANDY LOAM.								
					518.15							
				Stiff, damp, gray, LOAM.								
				Medium, wet, gray, Gravelly SAND, 5% passing #200 sieve.								
					495.65							
				Stiff to very stiff, damp, gray, SANDY CLAY LOAM.								
					513.15							
				Soft, damp, gray, SANDY LOAM.								
					510.65							
				Very stiff, damp, gray, CLAY TILL w/few wood fragments.								
					509.35							
				Gray, fluffy, SAND.								
					508.15							
				Soft, damp, gray, SANDY LOAM to SILTY LOAM.								
					485.65							

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

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG Page 3 of 4
Date 9/14/07

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandtschafer

SECTION 25-3 LOCATION NW 14, SEC. 1, TWP. 7 N, RNG. 5 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-00090010
Station 2003+70

BORING NO. 6 E Abut
Station 2006+04
Offset 6.00# Rt
Ground Surface Elev. 525.15 ft

D E P T H	B L O W S	U C S Q u T	M O S T L I Q u e r y	Description	Elev. (ft)	D B U M	E L C O	P O S I	T W S	H S Q u T	S P T	N
				Very stiff, damp, gray, SILTY CLAY TILL. (continued)								
					503.15							
				Loose, damp, gray, fine grained, SAND, 5% passing #200 sieve.								
				Very stiff, damp, gray, SANDY CLAY LOAM TILL.								
					519.85							
				Stiff, damp, gray, SANDY LOAM.								
					518.15							
				Stiff, damp, gray, LOAM.								
				Medium, wet, gray, Gravelly SAND, 5% passing #200 sieve.								
					495.65							
				Stiff to very stiff, damp, gray, SANDY CLAY LOAM.								
					513.15							
				Soft, damp, gray, SANDY LOAM.								
					510.65							
				Very stiff, damp, gray, CLAY TILL w/few wood fragments.								
					509.35							
				Gray, fluffy, SAND.								
					508.15							
				Soft, damp, gray, SANDY LOAM to SILTY LOAM.								
					485.65							

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

BBS, from 137 (Rev. 8-99)

DESIGNED	
CHECKED	
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

BORING LOGS
S.N. 025-0107 & 025-0108

BERNARDIN LOCHMUELLER & ASSOCIATES, INC.

3 Oak Drive
Marysville, IL 62062-9635
Local (618) 288-4665
Fax 618-288-4666

SHEET NO. 57	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
58 SHEETS	70	(25-3)B	EFFINGHAM	1416	89
		SN 025-0107 & 025-0108		CONTRACT NO. 74296	
		FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT 70	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Illinois Department
of Transportation
Division of Highways
Illinois Department of Transportation

ROCK CORE LOG

Page 4 of 4

Date 9/14/07

ROUTE FAI 70 (I-70) DESCRIPTION Little Wabash River LOGGED BY E. Sandbacher

SECTION 25-3 LOCATION NW 1/4, SEC. 1, TWP. 7 N, R. 5 E, S. 3 PM

COUNTY Effingham CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 025-00090010 CORING BARREL TYPE & SIZE NW, covr dhl hbl, split inner

Station 2003+70 Core Diameter 2.06 in

BORING NO. 6 E Abut Top of Rock Elev. 435.65 ft

Station 2006+04 Begin Core Elev. 435.15 ft

Offset 6.00ft Rt

Ground Surface Elev. 525.15 ft

Gray, SANDY CLAY SHALE 435.15

Rock core B6C1 from 91.0' to 91.5' depth = 103.2 tcf Qu.

No Recovery. 430.45
Gray, SANDY CLAY SHALE. 430.15

Rock core B6C2 from 96.0' to 96.5' depth = 108.6 tcf Qu.

Extent of exploration. 428.15 -100

Benchmark: BM 551 Chiseled Square on top of sloped wall in median, on East side of Little Wabash River, Station 2005+75 L+ 25.7' = 521.58' elevation. Provided by Program Development.

Color pictures of the cores Available on request
Cores will be stored for examination until 9/14/08
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

FBS, form 138 (Rev. 8-90)

DESIGNED	
CHECKED	
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

BORING LOGS
S.N. 025-0107 & 025-0108



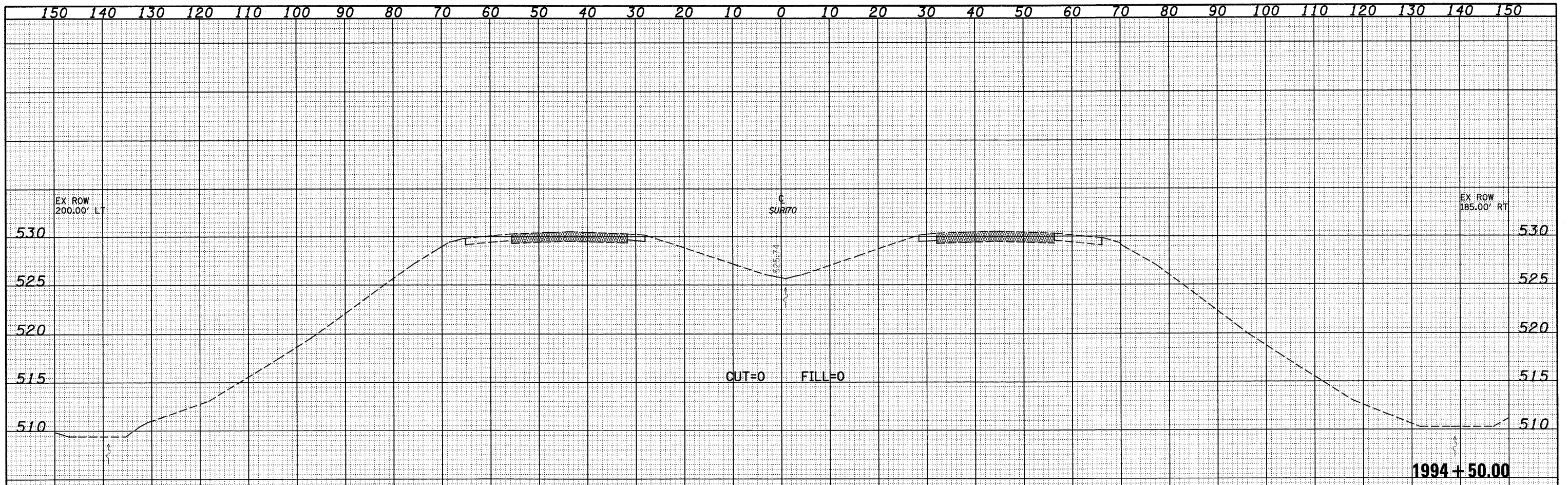
BERNARDIN
LOCHMUELLER &
ASSOCIATES, INC.

3 Oak Drive
Maryville, IL 62962-5635
Local (618) 288-4666
Fax 618-388-4666

SHEET NO. 58	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70	(25-3)B	EFFINGHAM	1416	90
58 SHEETS	SN 025-0107 & 025-0108		CONTRACT NO. 74296		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 70					

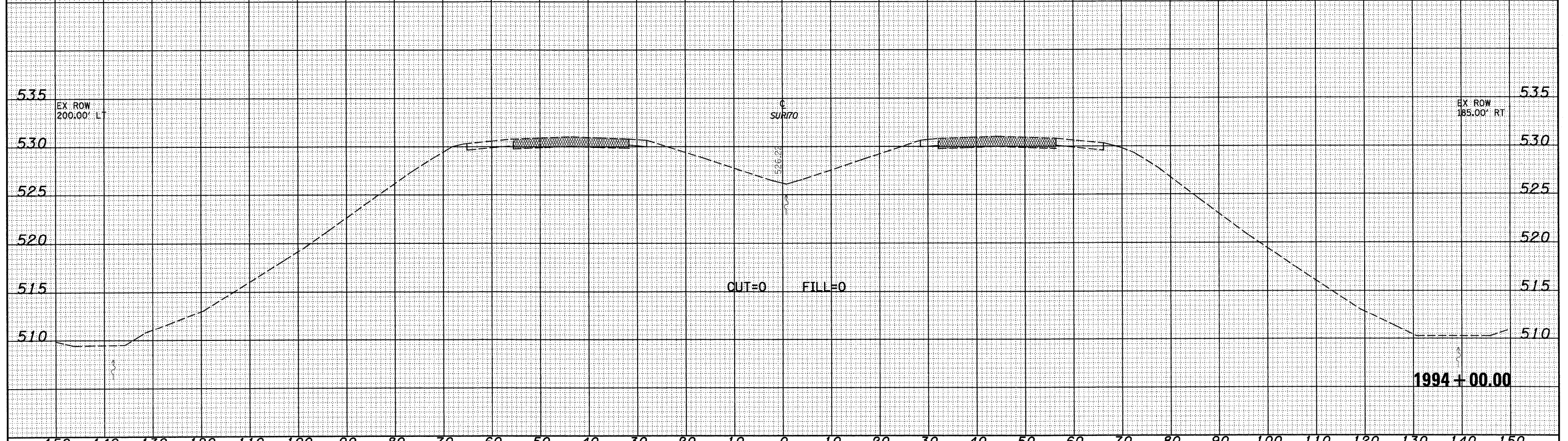
DATE	BY

NO.	AREAS CHECKED	TEMPLATE	NOTE BOOK	FURNISHED SURVEY



DATE	BY

NO.	AREAS CHECKED	TEMPLATE	NOTE BOOK	ORIGINAL SURVEY



FILE NAME = S:\Projects\108-000-DRY Little Wabash\cadd\073499.sht

USER NAME = lvsda
PLOT SCALE = 20.0000' / IN.
PLOT DATE = 2/9/2010

DESIGNED - ESW
DRAWN - LEC
CHECKED - BRM
DATE - 9-17-09

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

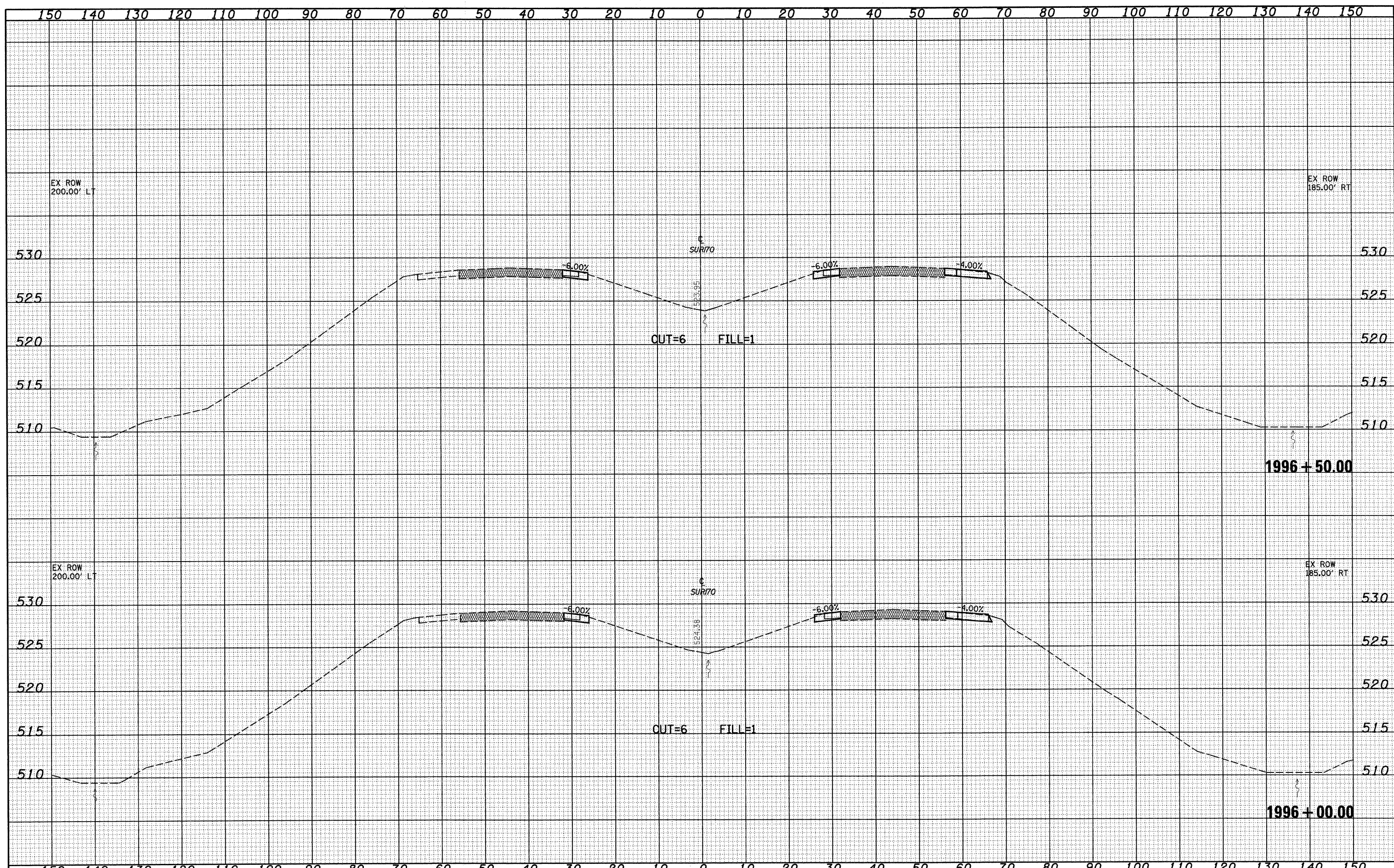
SCALE: 1"=10' SHEET NO. 1 OF 34 SHEETS STA. 1994+00.00 TO STA. 1994+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-3)B	EFFINGHAM	1416	91

CONTRACT NO. 74296
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

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

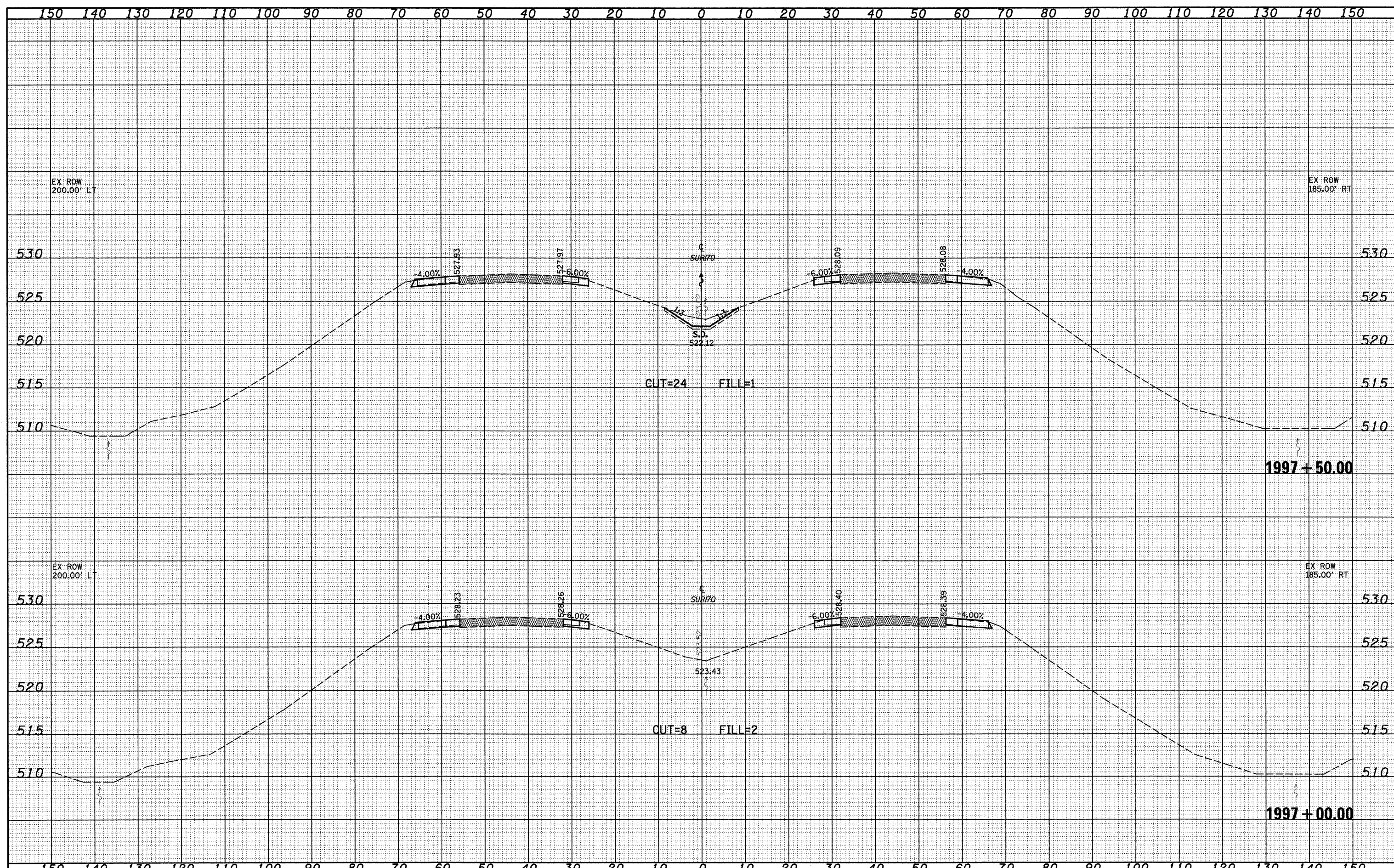
DATE	
BY	
ORIGINAL SURVEY	
CHECKED	
PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS	
CHECKED	
NO.	



FILE NAME =	USER NAME = linda	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
S:\Projects\408-000-001-Urb\Wabash\dmr\CADD\Sheets\079498.dgn	ghf-xsh.dgn	DRAWN - LEC	REVISED -			70	(25-3B)	EFFINGHAM	1416	93	
PLOT SCALE = 20.0000' / IN.		CHECKED - BRM	REVISED -			CONTRACT NO. 74296					
PLOT DATE = 2/9/2010		DATE - 9-17-09	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
SCALE: 1"=10'						SHEET NO. 3 OF 34 SHEETS		STA. 1996+00.00 TO STA. 1996+50.00			

DATE	
BY	
DESIGNED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
DESIGNED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME = S:\Projects\408-000-011\111111\Wabash\Drawn\CADD\Sheets\073499.dgn
 USER NAME = linda
 PLOT SCALE = 20,0000 ' / IN.
 PLOT DATE = 2/9/2010

DESIGNED - ESW
 DRAWN - LEC
 CHECKED - BRM
 DATE - 9-17-09

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

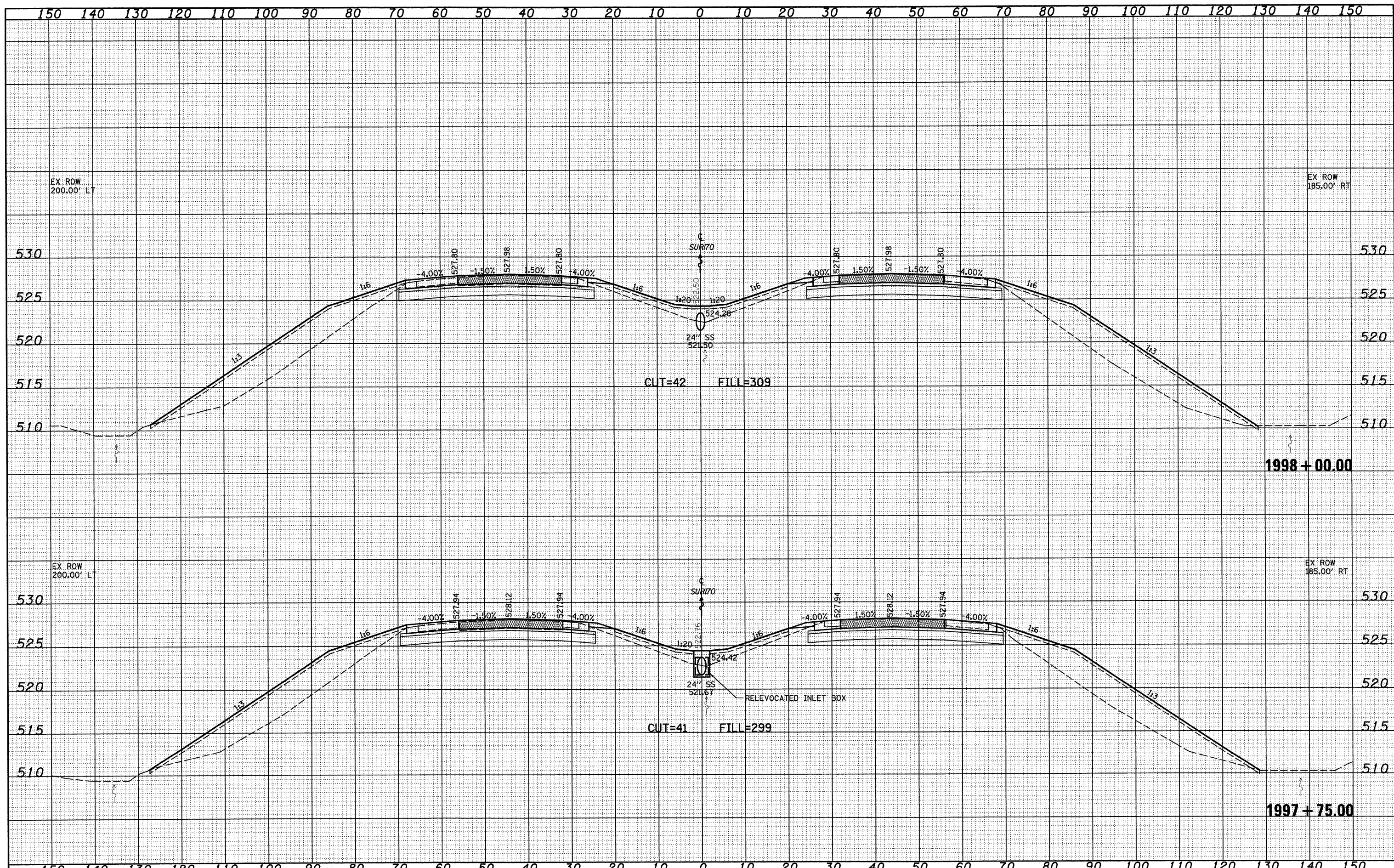
CROSS SECTIONS

SCALE: 1"=10' SHEET NO. 4 OF 34 SHEETS STA. 1997+00.00 TO STA. 1997+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-3)B	EFFINGHAM	1416	94
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 74296	

DATE	
BY	
SPANNED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	
NO.	

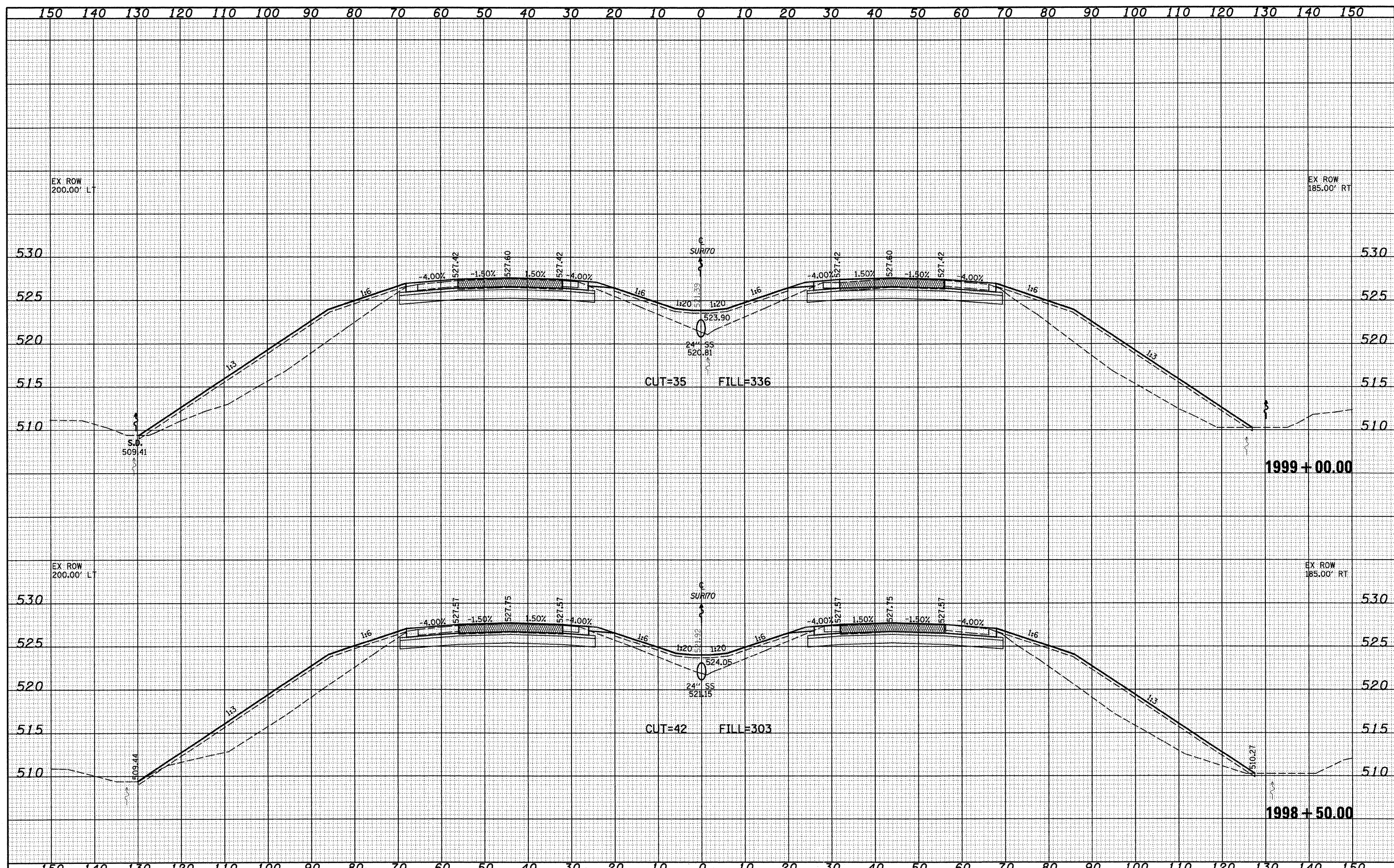
DATE	
BY	
SPANNED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	
NO.	



FILE NAME =	USER NAME = lnda	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
S:\Projects\408-000-DHY L111e Wabash\dgn\CADD Sheets\DT9-99\sh1-xsh1.dgn	PLOT SCALE = 20,0000' / IN.	DRAWN - LEC	REVISED -			70	(25-3)B	EFFINGHAM	1416	95	
	PLOT DATE = 2/9/2010	CHECKED - BRM	REVISED -			CONTRACT NO. 74296					
		DATE - 9-17-09	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
SCALE: 1"=10'						SHEET NO. 5 OF 34 SHEETS STA. 1997+75.00 TO STA. 1998+00.00					

DATE _____
 BY _____
 SERVED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

DATE _____
 BY _____
 SERVED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____



FILE NAME =
 S:\Projects\108-000-011 Little Wabash\dmr\CADD Sheets\079499

USER NAME = lnda
 snt-xsh1.dgn
 PLOT SCALE = 20,00000 ' / IN.
 PLOT DATE = 2/9/2010

DESIGNED - ESW
 DRAWN - LEC
 CHECKED - BRM
 DATE - 9-17-09

REVISED -
 REVISED -
 REVISED -
 REVISED -

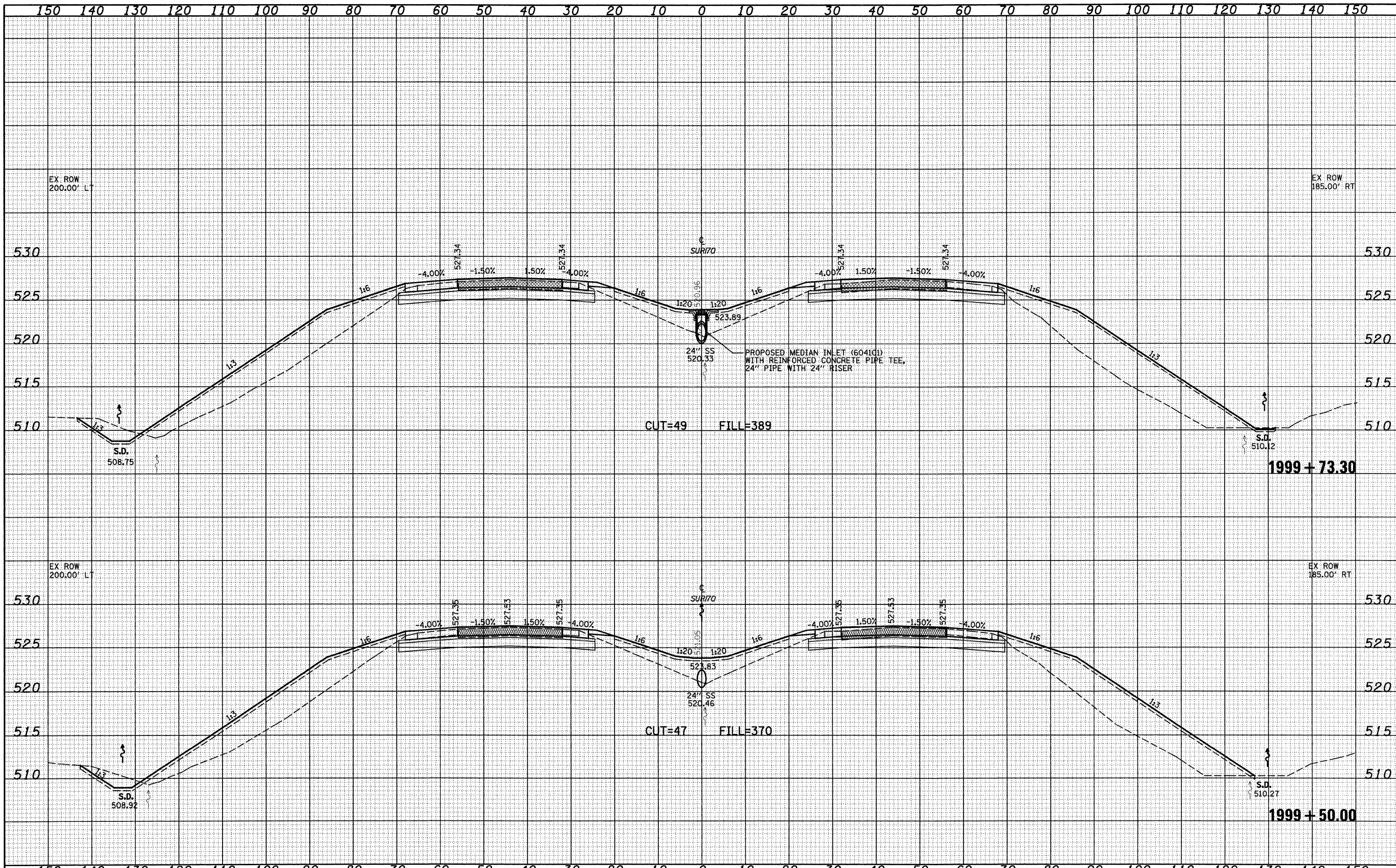
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=10' SHEET NO. 6 OF 34 SHEETS STA. 1998+50.00 TO STA. 1999+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-3)B	EFFINGHAM	1416	96

CONTRACT NO. 74296
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



DATE	
BY	
ORIGINAL SURVEY	
FINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	

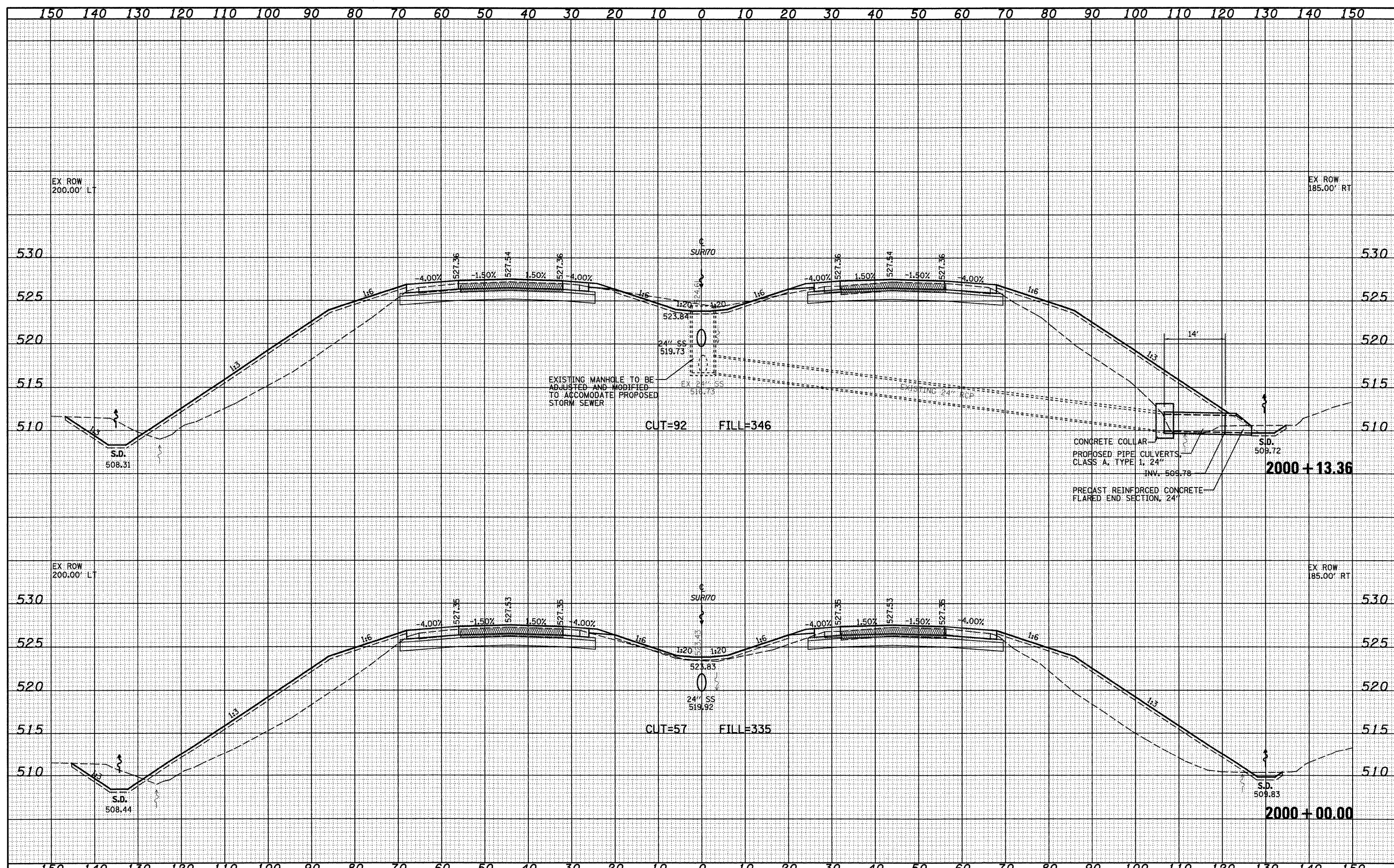
DATE	
BY	
ORIGINAL SURVEY	
FINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	

FILE NAME =	USER NAME = paul	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS				
S:\Projects\408-000-00Y Little Wabash\cgr\CADD Sheets\DT9499	ghl-rasht.dgn	DRAWN - LEC	REVISED -		F.A.J. RTE. 70	SECTION (25-3)B	COUNTY EFFINGHAM	TOTAL SHEETS 1416	SHEET NO. 97
PLOT SCALE = 20.0000' / IN.		CHECKED - BRM	REVISED -		CONTRACT NO. 74296				
PLOT DATE = 3/18/2010		DATE - 9-17-09	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCALE: 1"=10' SHEET NO. 7 OF 34 SHEETS STA. 1999+50.00 TO STA. 1999+73.30

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
FILE NAME	
PROJECT	
DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
FILE NAME	
PROJECT	
DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	



FILE NAME =
 S:\Projects\408-000-011 Little Wabash\Drawn\CA00 Sheets\079499.dwg

USER NAME = linda
 PLOT SCALE = 20,0000' / IN.
 PLOT DATE = 2/9/2010

DESIGNED - ESW
 DRAWN - LEC
 CHECKED - BRM
 DATE - 9-17-09

REVISED -
 REVISED -
 REVISED -
 REVISED -

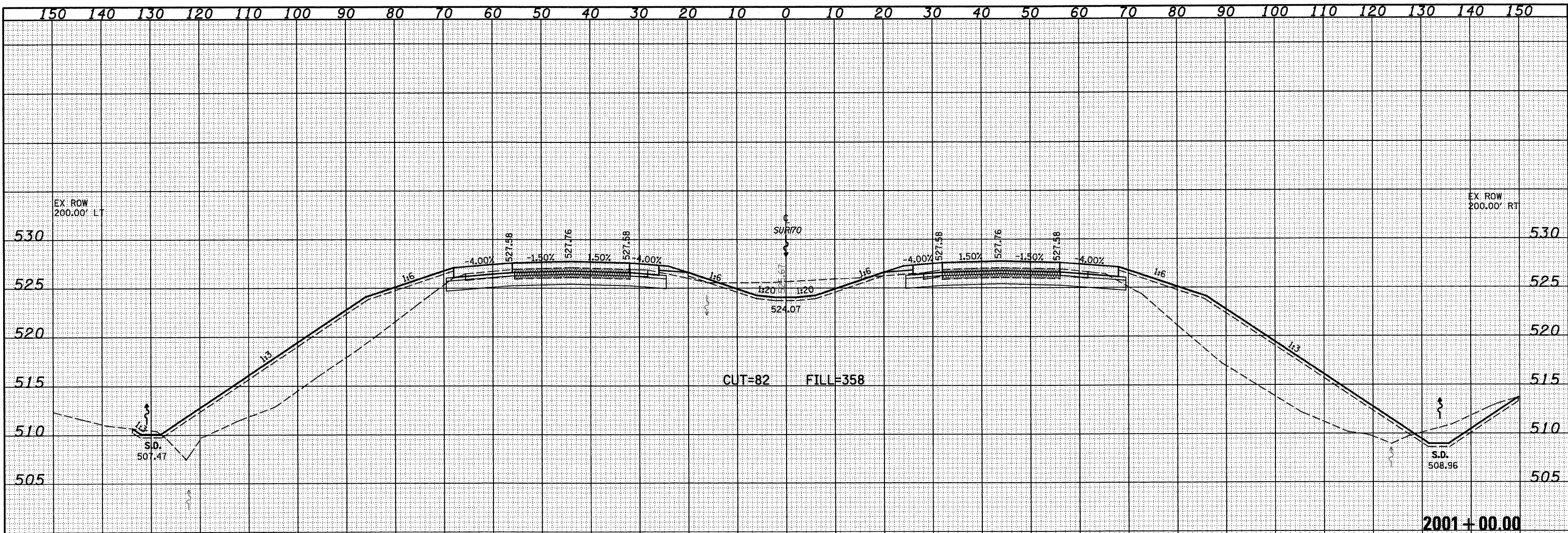
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

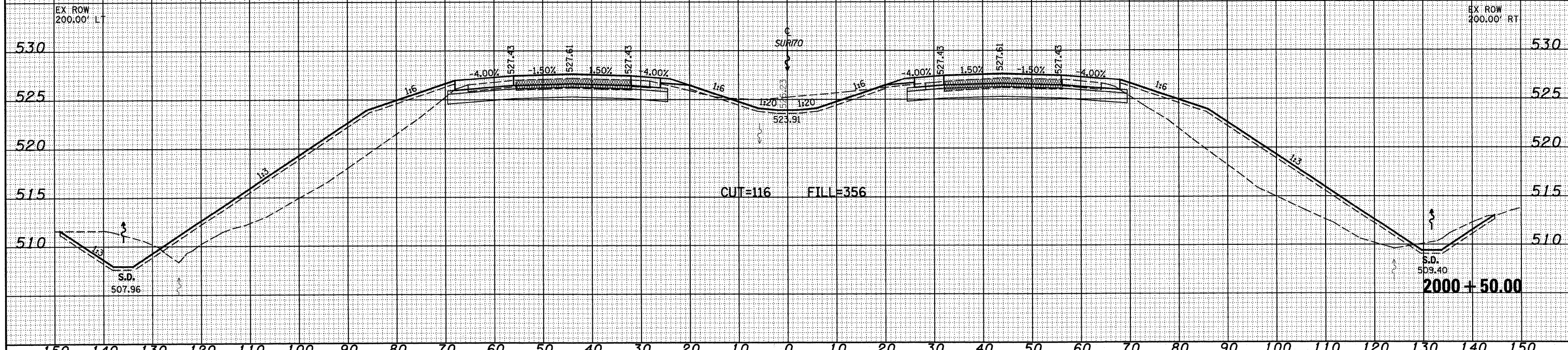
SCALE: 1"=10' SHEET NO. 8 OF 34 SHEETS STA. 2000+00.00 TO STA. 2000+13.36

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(25-3)B	EFFINGHAM	1416	98
CONTRACT NO. 74296			ILLINOIS FED. AID PROJECT	

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

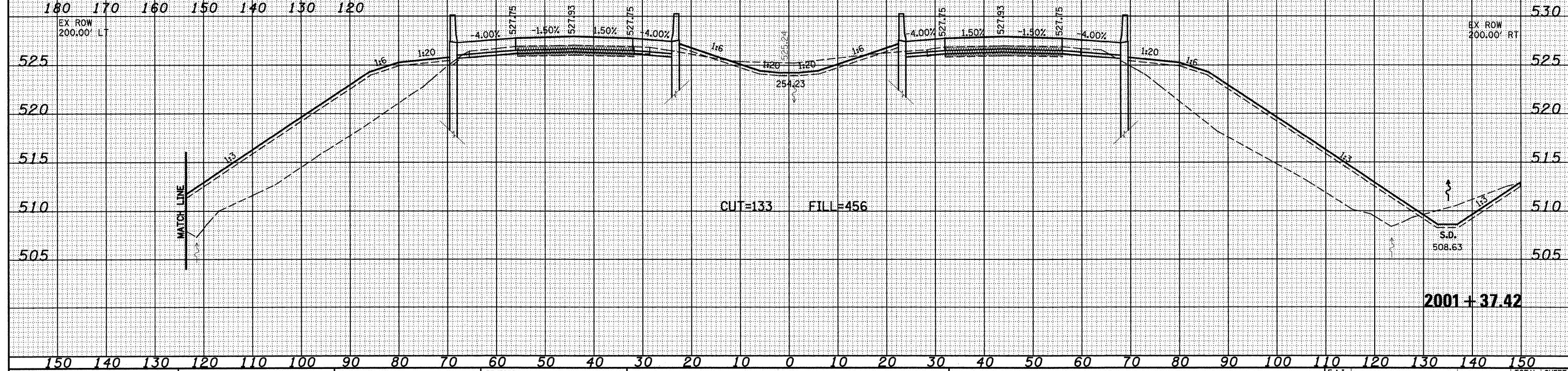
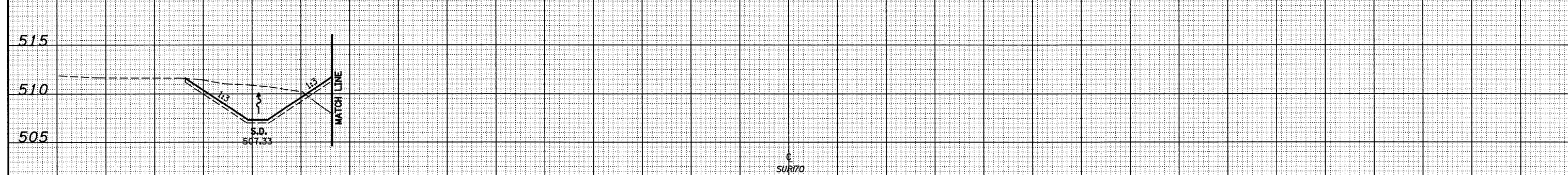
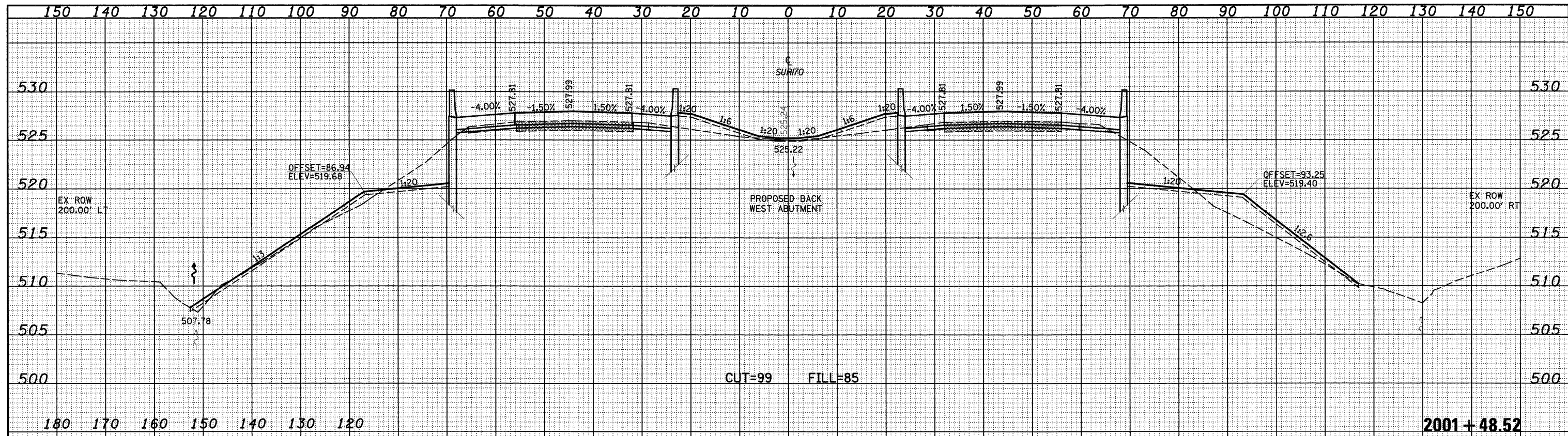


DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
FILE NAME	
USER NAME	
DESIGNED	
DRAWN	
CHECKED	
DATE	

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
FILE NAME	
USER NAME	
DESIGNED	
DRAWN	
CHECKED	
DATE	



FILE NAME =	USER NAME = lnda	DESIGNED - ESW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\Project\408-000-011\111111\Wabash\dm\CA00_Sheets\079499.dgn	linda	DRAWN - LEC	REVISED -		70	(25-3)B	EFFINGHAM	1416	100		
PLOT SCALE = 20,00000 / IN.		CHECKED - BRM	REVISED -		CONTRACT NO. 74296			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			
PLOT DATE = 2/9/2010		DATE - 9-17-09	REVISED -		SCALE: 1"=10'		SHEET NO. 10 OF 34 SHEETS		STA. 2001+37.42 TO STA. 2001+48.52		