F.A.P RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1;118B-1		HANCOCK	101	1
FED. ROAD DIST. NO. 6		ILLINOIS	CONTRACT NO. 72B05		

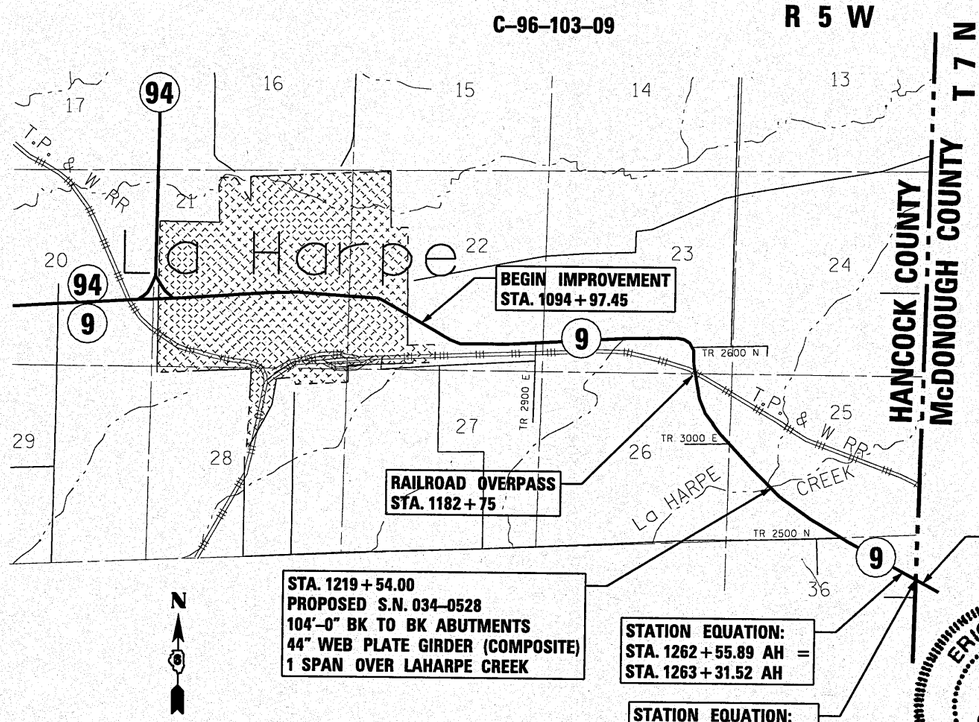
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 685 (IL 9)
SECTION (117, 118) RS–4, 119 RS–1; 118 B–1
PROJECT; ACF - 0685(031)
STRUCTURE RECONSTRUCTION & PAVING
HANCOCK COUNTY

FOR INDEX OF SHEETS, AND HIGHWAY STANDARDS SEE SHEET NO. 2

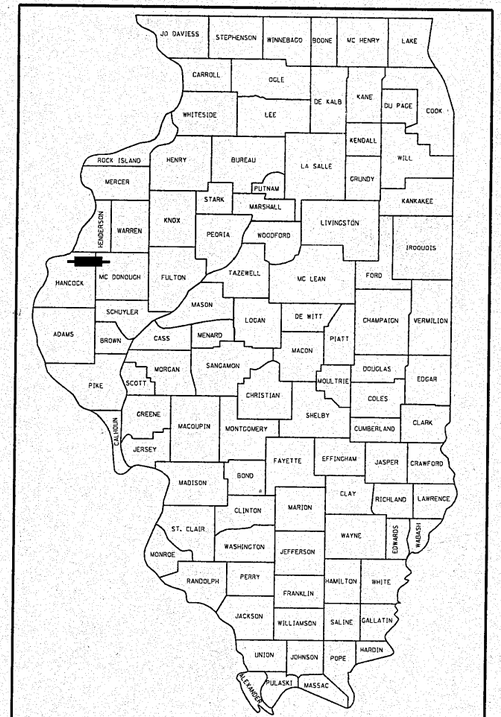
C–96–103–09



LOCATION MAP
SCALE: 1" = 2000'

GROSS/NET LENGTH OF SECTION = 17,454.02 FT = 3.306 MILES

D–96–532–07

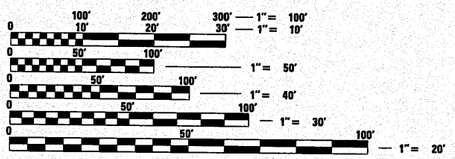


LOCATION OF SECTION INDICATED THUS: –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED November 3 20 10
Roy2 Dudley
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
Dec 10 20 10
Scott E. Stitt, P.E. /BL
acting ENGINEER OF DESIGN AND ENVIRONMENT
Dec 10 20 10
Christine M. Reed /BL
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

DESIGN DESIGNATION:
FAP 695
MINOR ARTERIAL (NON–URBAN)
ADT = 2150 (2027) 1750 (2009)
%SU = 8
%MU = 5



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: JOHN NEGANGARD (217) 782–6990
TEAM ENGINEER: MARK DUST (217) 785–0597

CONTRACT NO. 72B05

ERIC B. BARNES
062-052141
LICENSED PROFESSIONAL ENGINEER
ILLINOIS
Eric B. Barnes 10/28/10
ERIC B. BARNES DATE
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS NO. 062–052141
LICENSE EXPIRES NOVEMBER 30, 2011

PLANS PREPARED BY:
KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
616 North 24th Street, Quincy, IL — Ph (217) 223-3610 • Fax (217) 223-3683
4518 Perry Gravel Road, Hannibal, MO — Ph (573) 221-8828 • Fax (573) 221-8842
618 N. 4th Street, Suite 100, Burlington, IA — Ph (319) 753-1636 • Fax (319) 752-3695
99 North Prairie Street, Galesburg, IL — Ph (309) 342-4242 • Fax (309) 341-3781
Internet Address: www.klingner.com
STATE OF ILLINOIS DESIGN FIRM # 1842738

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INDEX OF SHEETS

STANDARDS

STANDARD NOS.

000001-06	602701-02	701001-02	701326-04
280001-05	604061-02	701006-03	701901-01
442201-03	606201-02	701011-02	704001-06
515001-03	630001-09	701201-04	720011-01
542301-03	631031-09	701301-04	780001-02
542401-01	635006-03	701306-03	781001-03
602401-03	635011-02	701311-03	601101-01
602601-02	666001-01	701321-11	

RATES OF APPLICATION TABLE

AGGREGATE (SURFACE, BASE, SUBBASE, OR BACKFILL)	2.05 TON / CU YD
STONE DUMPED RIPRAP	1.50 TON / CU YD
HOT-MIX ASPHALT:	
BITUMINOUS MATERIALS (PRIME COAT)	0.00038 TON / SQ YD (on pavement)
BITUMINOUS MATERIALS (PRIME COAT)	0.001425 TON / SQ YD (on aggreagte)
AGGREGATE PRIME COAT	0.002 TON / SQ YD
SURFACE / BINDER (112 lbs)	0.056 TON / SQ YD • IN

COMMITMENTS

1. FIELD/RESIDENT ENGINEER SHALL CONTACT STUDIES AND PLANS CONCERNING ANY MAJOR PLAN CHANGE TO MAKE SURE NO PREVIOUS COMMITMENTS (NOT LISTED) WERE MADE AFFECTING THE DESIGN, AND ALLOW AN IMPROVED DESIGN FOR FUTURE PROJECTS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING THE REQUIREMENTS OF AN NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY FOR THIS PROJECT.

GENERAL NOTES

1. THE NOMINAL THICKNESS FOR BINDER AND SURFACE COURSES ARE SHOWN ON THE TYPICAL SECTIONS, SCHEDULES, OR SPECIAL DETAILS. THE CONSTRUCTED THICKNESS SHALL NOT BE LESS THAN 90 PERCENT OF THE NOMINAL THICKNESS AT ANY LOCATION.
2. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AUTHORIZED AGENT, OR LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUB-SECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
3. ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE SEEDED, FERTILIZED, AND MULCHED AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER.
4. DO NOT INCLUDE MULCH OR EMULSIFIED ASHPALT ON EROSION CONTROL BLANKET AREAS.
5. IN ACCORDANCE WITH STATE OF ILLINOIS P.A. 86-0674, THE CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES NOT MORE THAN 14 DAYS NOR LESS THAN 48 HOURS (EXCLUSIVE OF SATURDAYS, SUNDAYS, AND HOLIDAYS) IN ADVANCE OF THE START OF EXCAVATION OR DEMOLITION.

J.U.L.I.E. TELEPHONE NUMBER
1-800-892-0123

6. THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE, AND ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATIONS, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVE GROUND UTILITIES, REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
8. ANY EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTUCTION IS COMPLETED, THE CONTRACTOR WILL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO COMPENSATION WILL BE ALLOWED.
9. EXISTING RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE REMOVED PRIOR TO HOT-MIX ASPHALT SURFACE REMOVAL AND/OR RESURFACING.
10. NO PASSING ZONES SHALL BE FIELD VERIFIED BY OPERATIONS, (217) 785-5312, 14 DAYS PRIOR TO FINAL PAVEMENT MARKINGS.
11. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION(S):			HMA BINDER, BASE COURSE WIDENING & PATCHING
MIXTURE USE(S):	LEVEL BINDER MM	HMA SURF CSE	
AC/PG:	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N DESIGN=70	4.0% @ N DESIGN=70	4.0% @ N DESIGN=70
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5	IL 9.5 or 12.5	IL 19.0
FRICTION AGGREGATE	N/A	MIX "C"	N/A

LOCATION(S):		
MIXTURE USE(S):	INCIDENTAL SURF	HMA SHOULDERS
AC/PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N DESIGN=50	3.0% @ N DESIGN=50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5 or 12.5	IL 9.5 or 12.5
FRICTION AGGREGATE	MIX "C"	MIX "C"

GENERAL NOTES

12. SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED SHALL BE DETERMINED BY THE ENGINEER.
13. ACCESS TO ALL SIDEROADS SHALL BE MAINTAINED AT ALL TIMES.
15. SHOULD THE CONTRACTOR REQUEST OLD/EXISTING STRUCTURE PLANS, THEY CAN CONTACT THE PROJECT ENGINEER OR TEAM ENGINEER AS SHOWN ON THE COVER SHEET.

DISTRICT SIX

EXAMINED October 19 20 10
Chris Walker
OPERATIONS ENGINEER

EXAMINED October 21 20 10
ARMJ
PROGRAM DEVELOPMENT ENGINEER

EXAMINED October 22 20 10
Terry Fountain RPA
PROJECT IMPLEMENTATION ENGINEER

Rev.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET INDEX & GENERAL NOTES

SCALE: none | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	2
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO.	ITEM	SP. PROV.	UNIT	80% FED. 20% STATE TOTAL QUANTITIES	80% FEDERAL 20% STATE CONSTRUCTION TYPE CODE 0005 ROADWAY	0011 STRUCTURE
20100500	TREE REMOVAL, ACRES		ACRE	1.7	1.7	
20200100	EARTH EXCAVATION	•	CU YD	5185	5185	
20200500	EARTH EXCAVATION (WIDENING)	•	CU YD	184	184	
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	•	UNIT	30	30	
20400800	FURNISHED EXCAVATION		CU YD	3410	3410	
25000200	SEEDING, CLASS 2		ACRE	4.00	4.00	
25000400	NITROGEN FERTILIZER NUTRIENT		POUND	360	360	
25000500	PHOSPHORUS FERTILIZER NUTRIENT		POUND	360	360	
25000600	POTASSIUM FERTILIZER NUTRIENT		POUND	360	360	
25000700	AGRICULTURAL GROUND LIMESTONE		TON	8.0	8.0	
25100115	MULCH, METHOD 2		ACRE	4.00	4.00	
25100630	EROSION CONTROL BLANKET		SQ YD	616	616	
28000250	TEMPORARY EROSION CONTROL SEEDING		POUND	800	800	
28000400	PERIMETER EROSION BARRIER		FOOT	500	500	
28000500	INLET AND PIPE PROTECTION		EACH	4	4	
28001000	AGGREGATE (EROSION CONTROL)		TON	100	100	
28100107	STONE RIPRAP, CLASS A4		SQ YD	2234		2234
28100707	STONE DUMPED RIPRAP, CLASS A4	•	SQ YD	5323	5323	
28200200	FILTER FABRIC		SQ YD	7557	5323	2234
~~31100100~~	~~SUBBASE GRANULAR MATERIAL, TYPE A~~		~~TON~~	~~137~~		~~137~~
31100100	SUBBASE GRANULAR MATERIAL, TYPE A		TON	137		137
35101400	AGGREGATE BASE COURSE, TYPE B		TON	189	189	
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"		SQ YD	814	814	
40201000	AGGREGATE FOR TEMPORARY ACCESS		TON	30	30	
40600200	BITUMINOUS MATERIALS (PRIME COAT)		TON	38.5	38.5	
40600300	AGGREGATE (PRIME COAT)		TON	197	197	
40600635	LEVELING BINDER (MACHINE METHOD), N70		TON	2059	2059	
40600895	CONSTRUCTING TEST STRIP		EACH	2	2	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT		SQ YD	87	87	
40600990	TEMPORARY RAMP	•	SQ YD	100	100	
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70		TON	1475	1475	

Rev.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: none | SHEET NO. 1 OF 4 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	3
		CONTRACT NO. 72805		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO.	ITEM	SP. PROV.	UNIT	80% FED. 20% STATE TOTAL QUANTITIES	80% FEDERAL 20% STATE CONSTRUCTION TYPE CODE 0005 ROADWAY	0011 STRUCTURE
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70		TON	4251	4251	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING		TON	32	32	
44000100	PAVEMENT REMOVAL	•	SQ YD	254	254	
44000400	GUTTER REMOVAL		FOOT	20	20	
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"		SQ YD	5027	5027	
44004250	PAVED SHOULDER REMOVAL		SQ YD	36	36	
44200176	PAVEMENT PATCHING, TYPE I, 15 INCH		SQ YD	25	25	
44200180	PAVEMENT PATCHING, TYPE II, 15 INCH		SQ YD	350	350	
44200184	PAVEMENT PATCHING, TYPE III, 15 INCH		SQ YD	365	365	
44200186	PAVEMENT PATCHING, TYPE IV, 15 INCH		SQ YD	665	665	
48101200	AGGREGATE SHOULDERS, TYPE B		TON	1644	1644	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"		SQ YD	1328	1328	
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	•	EACH	1		1
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	•	EACH	1	1	
50104400	CONCRETE HEADWALL REMOVAL		EACH	1	1	
50105220	PIPE CULVERT REMOVAL	•	FOOT	133	133	
50200100	STRUCTURE EXCAVATION		CU YD	312		312
50300100	FLOOR DRAINS		EACH	12		12
50300225	CONCRETE STRUCTURES		CU YD	63.2		63.2
50300255	CONCRETE SUPERSTRUCTURE		CU YD	283.0		283.0
50300260	BRIDGE DECK GROOVING		SQ YD	620		620
50300280	CONCRETE ENCASEMENT		CU YD	5.6		5.6
50300300	PROTECTIVE COAT		SQ YD	777		777
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL		L SUM	1		1
50500505	STUD SHEAR CONNECTORS		EACH	1998		1998
50800105	REINFORCEMENT BARS		POUND	3210	3210	
50800205	REINFORCEMENT BARS, EPOXY COATED		POUND	71240		71240
50800515	BAR SPLICERS		EACH	663		663
51201610	FURNISHING STEEL PILES HP12X63		FOOT	805		805
51202305	DRIVING PILES		FOOT	805		805

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: none | SHEET NO. 2 OF 4 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	4
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	SP. PROV.	UNIT	80% FED. 20% STATE TOTAL QUANTITIES	80% FEDERAL 20% STATE CONSTRUCTION TYPE CODE 0005 ROADWAY	0011 STRUCTURE
	51203610	TEST PILE STEEL HP12X63		EACH	2		2
	51500100	NAME PLATES		EACH	1		1
	52100520	ANCHOR BOLTS, 1"		EACH	24		24
	54002020	EXPANSION BOLTS 3/4 INCH		EACH	68	68	
	54003000	CONCRETE BOX CULVERTS		CU YD	23.0	23.0	
	542A0235	PIPE CULVERTS, CLASS A, TYPE 1 30"		FOOT	134	134	
	542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	•	FOOT	30	30	
	54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"		EACH	5	5	
	54215550	METAL END SECTIONS 15"		EACH	2	2	
	54215553	METAL END SECTIONS 18"		EACH	1	1	
	54248510	CONCRETE COLLAR		CU YD	2.3	2.3	
	59100100	GEOCOMPOSITE WALL DRAIN		SQ YD	83		83
	60100060	CONCRETE HEADWALLS FOR PIPE DRAINS		EACH	4	4	
	60219400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 12 FRAME AND GRATE		EACH	1	1	
	60222100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 12 FRAME AND GRATE		EACH	1	1	
	60500060	REMOVING INLETS		EACH	2	2	
*	63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS		FOOT	2550	2550	
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6		EACH	4	4	
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	•	EACH	17	17	
*	63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	•	EACH	1	1	
	63200310	GUARDRAIL REMOVAL		FOOT	3099	3099	
	66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS		EACH	12	12	
	67000400	ENGINEER'S FIELD OFFICE, TYPE A		CAL MO	9	9	
	67100100	MOBILIZATION		L SUM	1	1	
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	•	L SUM	1	1	
	70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	•	L SUM	1	1	
	70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	•	L SUM	1	1	
	70103815	TRAFFIC CONTROL SURVEILLANCE		CAL DA	10	10	
	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	•	EACH	1	1	
	70300100	SHORT TERM PAVEMENT MARKING		FOOT	4776	4776	

*Specialty Items

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: none | SHEET NO. 3 OF 4 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	5
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	SP. PROV.	UNIT	80% FED. 20% STATE TOTAL QUANTITIES	80% FEDERAL 20% STATE CONSTRUCTION TYPE CODE 0005 ROADWAY	0011 STRUCTURE
	70300230	TEMPORARY PAVEMENT MARKING - LINE 5"		FOOT	114300	114300	
	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"		FOOT	24	24	
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL		SQ FT	25112	25112	
	70400100	TEMPORARY CONCRETE BARRIER		FOOT	525	525	
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER		FOOT	525	525	
*	78001120	PAINT PAVEMENT MARKING - LINE 5"		FOOT	55420	55420	
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER		EACH	268	268	
*	78200410	GUARDRAIL MARKERS, TYPE A	•	EACH	76	76	
*	78201000	TERMINAL MARKER - DIRECT APPLIED		EACH	18	18	
	78300100	PAVEMENT MARKING REMOVAL		SQ FT	793	793	
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL		EACH	268	268	
	Z0001900	ASBESTOS BEARING PAD REMOVAL		EACH	22		22
	Z0013798	CONSTRUCTION LAYOUT		L SUM	1	1	
	Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	•	EACH	2	2	
	Z0030330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	•	EACH	2	2	
	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	•	FOOT	166		166
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	•	L SUM	1	1	
	Z0073002	TEMPORARY SOIL RETENTION SYSTEM	•	SQ FT	560		560
	X0324744	REMOVAL OF EXISTING PRECAST CONCRETE UNITS	•	SQ FT	688	688	
	X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	•	CU YD	170		170
	X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	•	SQ YD	42681	42681	
	X4811300	AGGREGATE SHOULDERS, TYPE B (SPECIAL)	•	TON	1040	1040	
	X6063000	CONCRETE GUTTER, TYPE B (SPECIAL)	•	FOOT	20	20	
	X7010202	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	•	EACH	1	1	
	X7050167	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)	•	EACH	2	2	
	X7200201	WIDTH RESTRICTION SIGNING	•	L SUM	1	1	

*Specialty Items

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: none | SHEET NO. 4 OF 4 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	6
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EARTH EXCAVATION SCHEDULE

LOCATION STATION TO STATION		SIDE	EARTH EXCAVATION 20200100	EARTH EXCAVATION ADJUSTED (25%)	EMBANKMENT	EARTHWORK BALANCE 20400800
			CU YD			
FAP 685 (IL 9) - STAGE 2						
1212+50	1227+50	RT	3825	2869	3816	(947)
SUB-TOTAL STAGE 2			3825	2869	3816	(947)
FAP 685 (IL 9) - STAGE 3						
1212+50	1219+25	LT	542	407	1362	(955)
1220+20	1224+50	LT	165	124	1215	(1091)
SUB-TOTAL STAGE 3			707	531	2577	(2046)
FAP 685 (IL 9) - MISCELLANEOUS						
1102+00	1110+00	LT	650	486	0	486
1150+75	1152+40	RT	0	0	350	(350)
1151+75	1153+30	LT	0	0	350	(350)
1171+25	1173+85	LT	0	0	200	(200)
SUB-TOTAL MISCELLANEOUS			650	486	900	(414)
TOTALS			5182	3886	7293	(3407)
USE			5185	3886	7293	(3410)

EARTH EXCAVATION (WIDENING)

STATION TO STATION		WIDTH	CU YD 20200500
FAP 685 (IL 9) - STAGE 1			
1216+00	1219+15	LT	39
1220+20	1223+50	LT	38
FAP 685 (IL 9) - STAGE 2			
1215+00	1218+60	RT	46
1220+30	1224+00	RT	45
FAP 685 (IL 9) - STAGE 3			
1218+10	1218+60	LT	5
1220+30	1221+60	LT	11
TOTAL			184

NOTE: THIS SCHEDULE USED FOR HOT-MIX ASPHALT WIDENING.

EXCAVATING AND GRADING EXISTING SHOULDER

STATION TO STATION		WIDTH	UNIT 20200600
FAP 685 (IL 9)			
1171+25	1173+82	LT	2.6
1190+00	1200+94	RT	10.9
1193+20	1194+39	LT	1.2
1207+20	1209+27	RT	2.1
1207+10	1209+17	LT	2.1
1224+00	1232+47	RT	8.5
1232+05	1234+62	LT	2.6
TOTAL			29.9
USE			30

NOTE: THIS SCHEDULE USED FOR HOT-MIX ASPHALT SHOULDERS.

TREE REMOVAL, ACRES

STATION TO STATION		SIDE	WIDTH	ACRE 20100500
FAP 685 (IL 9)				
1218+50	1222+00	LT	10	0.08
1218+75	1224+00	RT	75	0.90
1224+00	1224+75	RT	50	0.09
1225+25	1232+00	RT	40	0.62
TOTAL				1.69
USE				1.7

SEEDING SCHEDULE

STATION TO STATION		SIDE	WIDTH	SEEDING CLASS 2 25000200	FERTILIZER NUTRIENTS 25000400 NITROGEN	25000500 PHOSPHORUS	25000600 POTASSIUM	MULCH METHOD 2 25100115	AGRICULTURAL LIMESTONE 25000700
				ACRE	POUND			ACRE	TON
FAP 685 (IL 9)									
1102+00	1110+00	LT	30	0.55	49.6	49.6	49.6	0.55	1.1
1150+75	1152+40	RT	30	0.11	10.2	10.2	10.2	0.11	0.2
1151+75	1153+30	LT	30	0.11	9.6	9.6	9.6	0.11	0.2
1171+25	1173+85	LT	20	0.12	10.7	10.7	10.7	0.12	0.2
1212+50	1213+00	RT	30	0.03	3.1	3.1	3.1	0.03	0.1
1213+00	1218+00	RT	70	0.80	72.3	72.3	72.3	0.80	1.6
1218+00	1218+75	RT	80	0.14	12.4	12.4	12.4	0.14	0.3
1220+10	1224+00	RT	50	0.45	40.3	40.3	40.3	0.45	0.9
1224+00	1224+85	RT	20	0.04	3.5	3.5	3.5	0.04	0.1
1212+35	1213+00	LT	25	0.04	3.4	3.4	3.4	0.04	0.1
1213+00	1219+00	LT	70	0.96	86.8	86.8	86.8	0.96	1.9
1220+30	1222+00	LT	65	0.25	22.8	22.8	22.8	0.25	0.5
1222+00	1223+10	LT	50	0.13	11.4	11.4	11.4	0.13	0.3
1223+10	1224+50	LT	30	0.10	8.7	8.7	8.7	0.10	0.2
TOTALS				3.83	344.8	344.8	344.8	3.83	7.7
USE				4.00	360	360	360	4.00	8

RIPRAP SCHEDULE

STATION TO STATION		SIDE	WIDTH	STONE DUMPED CLASS A4 28100707	FILTER FABRIC 28200200
				SQ YD	
FAP 685 (IL 9)					
1188+65	1188+85	RT	10.0	22.2	22.2
1212+33	1213+15	LT	13.0	124.2	124.2
1212+52	1213+65	RT	13.0	167.6	167.6
1220+10	1224+90	RT	VARIES	1855.0	1855.0
1220+31	1222+07	LT	16.0	289.8	289.8
1225+21	1232+56	RT	VARIES	2000.0	2000.0
1226+30	1226+40	LT	12.5	13.9	13.9
1232+05	1234+60	LT	30.0	850.0	850.0
TOTALS				5322.6	5322.6
USE				5323	5323

NOTE: SEE STRUCTURE PLANS FOR ADDITIONAL FILTER FABRIC AND STONE RIPRAP, CLASS A4 QUANTITIES.

EROSION CONTROL BLANKET

STATION TO STATION		SIDE	WIDTH	SQ YD 25100630
FAP 685 (IL 9)				
1213+65	1215+50	RT	12	246.7
1218+00	1218+97	LT	12	129.3
1222+70	1224+50	LT	12	240.0
TOTAL				616.0
USE				616

EROSION CONTROL SCHEDULE

ITEM	UNIT	TOTAL
TEMPORARY EROSION CONTROL SEEDING	POUND	800
PERIMETER EROSION BARRIER	FOOT	500
INLET AND PIPE PROTECTION	EACH	4
AGGREGATE (EROSION CONTROL)	TON	100

THE SCHEDULE FOR EROSION CONTROL IS AN ESTIMATED QUANTITY. IT MAY BE REDUCED, INCREASED, OR DELETED BY THE ENGINEER BASED ON ACTUAL FIELD CONDITIONS. NO WORK INVOLVING THIS ESTIMATED QUANTITY SHALL BE PERFORMED WITHOUT THE DIRECTION AND APPROVAL OF THE ENGINEER.

ENTRANCE SCHEDULE

STATION	SIDE	TYPE	WIDTH	AREA (SQ YD)	40800050 INCIDENTAL HMA SURFACING TON	35101400 AGGREGATE BASE COURSE TYPE B TON
FAP 685 (IL 9)						
1104+50.00	LT	MB	22	37.3	3.1	
1104+55.00	RT	CE	22	37.3	3.1	
1105+50.00	RT	CE	22	37.3	3.1	
1106+90.00	RT	CE	22	37.3	3.1	
1107+60.00	RT	FE	22	37.3		3.2
1109+30.00	RT	PE	22	37.3	3.1	
1131+55.00	RT	TR 2900E	22	140.0		12.0
1131+60.00	LT	FE	22	37.3		3.2
1139+50.00	LT	FE	22	37.3		3.2
1147+40.00	LT	FE	22	37.3		3.2
1157+50.00	RT	CE	22	37.3		3.2
1175+60.00	LT	TR 2600N	22	186.7	3.1	12.8
1175+90.00	RT	PE	22	37.3	3.1	
1204+55.00	RT	TR 3000E	22	186.7		15.9
1212+25.00	LT	FE	22	37.3		3.2
1212+45.00	RT	FE	22	37.3		3.2
1222+40.00	LT	FE	22	134.3		45.9
1225+00.00	RT	FE	22	70.4		24.0
1246+30.00	RT	TR 2500N	22	186.7	3.1	12.8
1247+00.00	RT	FE	22	37.3		3.2
1247+60.00	LT	PE	22	37.3	3.1	
0+00.00	RT	TR 000E	22	140.0	3.1	8.8
0+00.00	LT	IDOT	40	88.9		30.4
TOTALS					31.4	188.0
USE					32	189

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

STATION TO STATION		SIDE	WIDTH	40600982 SQ YD
FAP 685 (IL 9)				
1094+97.45	1095+12.45	LT & RT	26	43.3
0+35.00	0+50.00	LT & RT	26	43.3
TOTAL				86.7
USE				87

HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

STATION TO STATION		SIDE	WIDTH	X4401198 SQ YD
FAP 685 (IL 9)				
1095+12.45	1175+35.00	LT & RT	26.0	23176.3
1186+65.00	1214+95.00	LT & RT	26.0	8175.6
1224+05.00	1232+65.00	LT & RT	26.0	2484.4
1238+75.00	1262+55.89	LT & RT	26.0	6878.1
1263+31.52	1269+77.10	LT & RT	26.0	1865.0
0+00.00	0+35.00	LT & RT	26.0	101.1
TOTAL				42680.5
USE				42681

HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"

STATION TO STATION		SIDE	DESCRIPTION	WIDTH	44000158 SQ YD
FAP 685 (IL 9)					
1175+35.00	1186+65.00	LT & RT	GUTTER	26.0	3264.4
1232+65.00	1238+75.00	LT & RT	GUTTER / RR PASS	26.0	1762.2
TOTAL					5026.7
USE					5027

HOT-MIX ASPHALT SURFACE REMOVAL, 6"

STATION TO STATION		SIDE	WIDTH	44000173 SQ YD
FAP 685 (IL 9)				
1218+68.00	1218+80.00	LT & RT	26.0	35.3
1220+28.00	1220+40.00	LT & RT	26.0	34.2
TOTAL				69.5
USE				70

NOTE: THIS ITEM USED TO REMOVE THE HMA SURFACING UNDER BRIDGE APPROACH FOOTINGS.

LEVELING BINDER (MACHINE METHOD), N70

STATION TO STATION		SIDE	AVERAGE WIDTH	AVERAGE DEPTH	40600635 TON
FAP 685 (IL 9)					
1095+12.45	1214+95.00	LT & RT	26.0	0.75	1453.9
1214+95.00	1216+25.00	LT & RT	30.0	1.5	36.4
1223+40.00	1224+05.00	LT & RT	30.0	1.5	18.2
1224+05.00	1262+55.89	LT & RT	26.0	0.75	467.2
1263+31.52	1269+77.10	LT & RT	26.0	0.75	78.3
0+00.00	0+35.00	LT & RT	26.0	0.75	4.2
TOTAL					2058.3
USE					2059

HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70

STATION TO STATION		SIDE	AVERAGE WIDTH	AVERAGE DEPTH	40603085 TON
FAP 685 (IL 9)					
1216+25.00	1218+72.00	LT & RT	35.5	13.0	709.3
1220+36.00	1223+40.00	LT & RT	35.5	11.4	765.5
TOTAL					1474.8
USE					1475

HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70

STATION TO STATION		SIDE	AVERAGE WIDTH	AVERAGE DEPTH	40603315 TON
FAP 685 (IL 9)					
1094+97.45	1095+12.45	LT & RT	26.0	1.5	3.6
1095+12.45	1214+95.00	LT & RT	26.0	1.5	2907.8
1214+95.00	1216+25.00	LT & RT	30.0	1.5	36.4
1216+25.00	1218+72.00	LT & RT	35.5	1.5	81.8
1220+36.00	1223+40.00	LT & RT	35.5	1.5	100.7
1223+40.00	1224+05.00	LT & RT	28.5	1.5	17.3
1224+05.00	1262+55.89	LT & RT	26.0	1.5	934.5
1263+31.52	1269+77.10	LT & RT	26.0	1.5	156.7
0+00.00	0+35.00	LT & RT	26.0	1.5	8.5
0+35.00	0+50.00	LT & RT	26.0	1.5	3.6
TOTAL					4250.9
USE					4251

MISCELLANEOUS PAVING ITEMS SCHEDULE

ITEM	UNIT	TOTAL
TEMPORARY RAMP	SQ YD	100
AGGREGATE FOR TEMPORARY ACCESS	TON	30
BITUMINOUS MATERIALS (PRIME COAT)	TON	38.5
AGGREGATE (PRIME COAT)	TON	197

THE SCHEDULE FOR MISCELLANEOUS PAVING ITEMS ARE ESTIMATED QUANTITES. IT MAY BE REDUCED, INCREASED, OR DELETED BY THE ENGINEER BASED ON ACTUAL FIELD CONDITIONS. NO WORK INVOLVING THESE ESTIMATED QUANTITIES SHALL BE PERFORMED WITHOUT THE DIRECTION AND APPROVAL OF THE ENGINEER.

PAVEMENT PATCHING SCHEDULE

STATION	44200176 TYPE I 15 INCH	44200180 TYPE II 15 INCH	44200184 TYPE III 15 INCH	44200186 TYPE IV 15 INCH
	SQ YD			
IDOT PATCHING SURVEY	25	350	365	665
TOTALS	25	350	365	665

HOT-MIX ASPHALT BASE COURSE WIDENING, 10"

STATION TO STATION		SIDE	AVERAGE WIDTH	35600716 SQ YD	
FAP 685 (IL 9)					
1216+00	1217+00	LT	3.5	38.9	
1217+00	1218+10	LT	6.0	73.3	
1218+10	1219+13	LT	4.0	45.8	
1218+10	1218+75	LT	2.5	18.1	•
1220+20	1221+50	LT	4.0	57.8	
1220+50	1221+50	LT	2.5	27.8	•
1221+50	1222+61	LT	6.0	74.0	
1222+61	1223+50	LT	3.5	34.6	
1215+00	1215+90	RT	3.5	35.0	
1215+90	1218+57	RT	6.0	178.0	
1220+33	1223+00	RT	6.0	178.0	
1223+00	1223+25	RT	5.5	15.3	
1223+25	1224+00	RT	4.5	37.5	
TOTAL				814.0	
USE				814	

• STAGE 3

AGGREGATE SHOULDERS, TYPE B

STATION TO STATION		SIDE	AVERAGE WIDTH	AVERAGE DEPTH	48101200 TON
FAP 685 (IL 9)					
1094+97.45	1175+65.00	RT	4.0	2.25	459.4
1186+35.00	1190+00.00	RT	4.0	2.25	20.8
1200+94.00	1207+20.00	RT	4.0	2.25	35.6
1209+27.00	1214+77.40	RT	4.0	2.25	31.3
1214+77.40	1215+00.00	RT	4.5	2.25	1.4
1215+00.00	1215+85.00	RT	4.0	2.25	4.8
1222+15.00	1224+00.00	RT	4.0	6.30	29.5
1224+00.00	1224+25.00	RT	4.5	2.25	1.6
1224+25.00	1225+65.00	RT	4.0	2.25	8.0
1232+47.00	1232+96.00	RT	4.0	2.25	2.8
1238+42.00	1262+55.89	RT	4.0	2.25	137.5
1263+31.52	1269+77.10	RT	4.0	2.25	36.8
0+00.00	0+50.00	RT	4.0	2.25	2.8
1094+97.45	1171+25.00	LT	4.0	2.25	434.3
1173+82.00	1179+52.00	LT	4.0	2.25	32.5
1185+70.00	1193+20.00	LT	4.0	2.25	42.7
1194+39.00	1207+10.00	LT	4.0	2.25	72.4
1209+17.00	1214+80.00	LT	4.0	2.25	32.1
1214+80.00	1215+75.00	LT	4.0	2.25	5.4
1215+75.00	1216+00.00	LT	4.5	2.25	1.6
1216+00.00	1216+95.00	LT	4.0	5.30	12.7
1222+57.00	1223+50.00	LT	4.0	4.40	10.4
1223+50.00	1223+72.25	LT	4.5	2.25	1.4
1223+72.25	1224+20.00	LT	4.0	2.25	2.7
1224+20.00	1232+05.00	LT	4.0	2.25	44.7
1234+62.00	1234+74.00	LT	4.0	2.25	0.7
1238+42.00	1262+55.89	LT	4.0	2.25	137.5
1263+31.52	1269+77.10	LT	4.0	2.25	36.8
0+00.00	0+50.00	LT	4.0	2.25	2.8
TOTAL					1643.0
USE					1644

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: none | SHEET NO. 2 OF 5 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	8
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PAVEMENT REMOVAL

44000100

STATION TO STATION		SIDE	WIDTH	SQ YD
FAP 685 (IL 9)				
1218+80	1219+22	LT & RT	18-26	102.4
1219+84	1220+28	LT & RT	18-26	105.2
TOTAL				207.6
USE				208

PAVED SHOULDER REMOVAL

44004250

STATION TO STATION		SIDE	WIDTH	SQ YD
FAP 685 (IL 9)				
1218+56.8	1218+86.8	RT	2.0	6.5
1218+61.8	1219+11.8	LT	2.0	11.2
1219+93.7	1220+44.8	RT	2.0	11.2
1220+19.5	1220+49.5	LT	2.0	6.5
TOTAL				35.6
USE				36

REMOVAL OF EXSTING PRECAST CONCRETE UNITS

X0324744

STATION TO STATION		SIDE	WIDTH	SQ FT
FAP 685 (IL 9)				
1218+86.8	1219+14.8	RT	7.5	209.4
1219+11.3	1219+29.3	LT	7.5	134.8
1219+77.0	1219+94.9	RT	7.5	134.5
1219+91.6	1220+19.5	LT	7.5	209.2
TOTAL				687.9
USE				688

REMOVAL OF EXISTING STRUCTURES

PAY ITEM NO.	STATION	SIDE	DESCRIPTION	EACH
FAP 685 (IL 9)				
50100300	1219+54	LT & RT	S.N. 034-0008	1
50100400	1246+60	RT	2'x2' BOX CULVERT WITH HEADWALLS	1

PIPE CULVERT REMOVAL

50105220

STATION	SIDE	DESCRIPTION	FOOT
FAP 685 (IL 9)			
1188+15	RT	30" CLAY	100
1222+40	LT	15" CLAY/12" CMP	33
TOTAL			133

GUTTER REMOVAL

44000400

STATION TO STATION		SIDE	FOOT
FAP 685 (IL 9)			
1182+95	1183+05	RT	10
1182+95	1183+05	LT	10
TOTAL			20

NOTE: THIS IS AN ESTIMATED QUANTITY.

CONCRETE HEADWALL REMOVAL

50104400

STATION	SIDE	EACH
FAP 685 (IL 9)		
1247+85	LT	1
TOTAL		1

REMOVING INLETS

60500060

STATION	SIDE	EACH
FAP 685 (IL 9)		
1183+00	RT	1
1183+00	LT	1
TOTAL		2

GUARDRAIL REMOVAL

63200310

STATION TO STATION		SIDE	FOOT
FAP 685 (IL 9)			
1150+79	1152+34	RT	155
1151+78	1153+30	LT	152
1171+28	1173+82	LT	254
1190+02	1200+88	RT	1086
1193+20	1194+26	LT	106
1207+14	1209+19	LT	205
1207+24	1209+29	RT	205
1225+66	1232+46	RT	680
1232+07	1234+63	LT	256
TOTAL			3099

PAVEMENT MARKING REMOVAL

78300100

STATION TO STATION		SIDE	DESCRIPTION	SQ FT
FAP 510 9IL 96)				
1215+00	1221+50	CL	SKIP-DASH	8.5
1215+00	1217+00	LT CL	NO-PASSING	100.0
1221+50	1224+00	LT CL	NO-PASSING	125.0
1221+50	1224+00	RT CL	NO-PASSING	125.0
1216+56	1222+40	LT	EDGE LINE	292.0
1216+60	1218+00	RT	EDGE LINE	70.0
1221+00	1222+44	RT	EDGE LINE	72.0
TOTAL				792.5
USE				793

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: none | SHEET NO. 3 OF 5 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	9
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONCRETE BOX CULVERTS / COLLAR SCHEDULE

STATION	SIDE	50800105 REINFORCEMENT BARS	54002020 EXPANSION BOLTS 3/4 INCH	54003000 CONCRETE BOX CULVERTS	54248510 CONCRETE COLLAR
		POUND	EACH	CU YD	
FAP 685 (IL 9)					
1152+05	LT	1505.0	18	11.5	
1152+05	RT	1505.0	18	11.5	
1188+65	RT	48.7			0.87
1226+35	LT	36.2	8		0.34
1226+35	RT	36.2	8		0.34
1246+50	LT	36.2	8		0.34
1246+50	RT	36.2	8		0.34
TOTALS		3203.5	68	23.0	2.23
USE		3210	68	23.0	2.3

PIPE CULVERT SCHEDULE

STATION	SIDE	542A0235 PIPE CULVERTS CLASS A TYPE 1 30"	542D0220 PIPE CULVERTS CLASS D TYPE 1 15"	54213675 PRECAST REINF CONC FLARED END SECTION 30"	54215550 METAL END SECTIONS 15"	54215553 METAL END SECTIONS 18"
		FOOT		EACH		
FAP 685 (IL 9)						
1188+15	RT	100		1		
1226+35	LT	6		1		
1226+35	RT	8		1		
1246+50	LT	10		1		
1246+50	RT	10		1		
1246+60	RT		30		2	
1247+85	LT					1
TOTALS		134	30	5	2	1

CONCRETE GUTTER, TYPE B (SPECIAL)

STATION TO STATION		SIDE	60603000 FOOT
FAP 685 (IL 9)			
1182+95	1183+05	RT	10
1182+95	1183+05	LT	10
TOTAL			20

NOTE: THIS IS AN ESTIMATED QUANTITY.

MANHOLES, TYPE A, 4'-DIAMETER TYPE 12 FRAME AND GRATE

STATION	SIDE	60219400 EACH
FAP 685 (IL 9)		
1183+00	LT	1
TOTAL		1

MANHOLES, TYPE A, 5'-DIAMETER TYPE 12 FRAME AND GRATE

STATION	SIDE	60222100 EACH
FAP 685 (IL 9)		
1183+00	RT	1
TOTAL		1

GUARDRAIL SCHEDULE

STATION TO STATION		SIDE	63000001 SPBGR TYPE A 6' POSTS	63100085 TRAFFIC BARRIER TERMINAL TYPE 6	63100167 TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL (TANGENT)	63100169 TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL (FLARED)	78200410 GUARDRAIL MARKERS TYPE A	78201000 TERMINAL MARKERS DIRECT APPLIED
			FOOT	EACH				
FAP 685 (IL 9)								
1171+25.00	1173+81.26	LT	150.0		2		7	2
1190+00.00	1200+93.76	RT	987.5		2		28	2
1193+20.00	1194+38.76	LT	12.5		2		4	2
1207+20.00	1209+26.26	RT	100.0		2		4	2
1207+10.00	1209+16.26	LT	100.0		2		4	2
1215+86.58	1218+79.11	RT	187.5	1	1		4	1
1216+94.86	1218+99.89	LT	100.0	1	1		4	1
1220+08.11	1222+13.14	RT	100.0	1	1		4	1
1220+28.89	1222+20.67	LT	87.5	1		1	4	1
1225+65.00	1232+46.26	RT	575.0		2		9	2
1232+05.00	1234+61.26	LT	150.0		2		4	2
TOTALS			2550.0	4	17	1	76	18

HOT-MIX ASPHALT SHOULDERS, 8"

STATION TO STATION		SIDE	SURFACE WIDTH	48203029 SQ YD
FAP 685 (IL 9)				
1171+25	1173+82	LT	4.0	114.2
1190+00	1200+94	RT	4.0	486.2
1193+20	1194+39	LT	4.0	52.9
1207+20	1209+27	RT	4.0	92.0
1207+10	1209+17	LT	4.0	92.0
1224+00	1232+47	RT	4.0	376.4
1232+05	1234+62	LT	4.0	114.2
TOTAL				1328.0
USE				1328

AGGREGATE SHOULDERS, TYPE B (SPECIAL)

STATION TO STATION		SIDE	AVERAGE WIDTH	AVERAGE DEPTH	X4811300 TON
FAP 685 (IL 9)					
1171+25.00	1173+82.00	LT	4.0	8.00	52.0
1190+00.00	1200+94.00	RT	4.0	8.00	221.5
1193+20.00	1194+39.00	LT	4.0	8.00	24.1
1207+10.00	1209+17.00	LT	4.0	8.00	41.9
1207+20.00	1209+27.00	RT	4.0	8.00	41.9
1215+85.00	1218+76.61	RT	4.0	15.80	116.6
1216+95.00	1218+97.39	LT	4.0	21.40	109.6
1220+10.61	1222+15.00	RT	4.0	21.20	109.7
1220+31.39	1221+46.14	LT	4.0	26.30	76.4
1221+46.14	1222+28.00	LT	9.5	11.40	56.1
1225+65.00	1232+47.00	RT	4.0	8.00	138.1
1232+05.00	1234+62.00	LT	4.0	8.00	52.0
TOTAL					1039.9
USE					1040

TEMPORARY TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)

STATION TO STATION		SIDE	X7050167 EACH
FAP 685 (IL 9)			
1217+83.46	1218+33.46	RT	1
1220+53.76	1221+03.76	RT	1
TOTAL			2

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: none | SHEET NO. 4 OF 5 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	10
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PAINT PAVEMENT MARKING - LINE 5''

78001120

STATION TO STATION		SIDE	DESCRIPTION	WHITE	YELLOW
				FOOT	
FAP 685 (IL 9)					
1094+97.45	1262+55.89	LT	EDGE LINE	16758.4	
1263+31.52	1269+77.10	LT	EDGE LINE	645.6	
0+00.00	0+50.00	LT	EDGE LINE	50.0	
1094+97.45	1262+55.89	RT	EDGE LINE	16758.4	
1263+31.52	1269+77.10	RT	EDGE LINE	645.6	
0+00.00	0+50.00	RT	EDGE LINE	50.0	
1094+97.45	1173+00.00	CL	SKIP-DASH		1960.0
1205+00.00	1221+50.00	CL	SKIP-DASH		420.0
1249+00.00	1262+55.89	CL	SKIP-DASH		340.0
1263+31.52	1269+77.10	CL	SKIP-DASH		170.0
0+00.00	0+50.00	CL	SKIP-DASH		20.0
1104+50.00	1112+00.00	RT CL	NO-PASSING		750.0
1114+50.00	1122+00.00	LT CL	NO-PASSING		750.0
1163+50.00	1205+00.00	RT CL	NO-PASSING		4150.0
1173+00.00	1217+00.00	LT CL	NO-PASSING		4400.0
1221+50.00	1258+50.00	RT CL	NO-PASSING		3700.0
1221+50.00	1249+00.00	LT CL	NO-PASSING		2750.0
1258+50.00	1262+55.89	LT CL	NO-PASSING		405.9
1263+31.52	1269+77.10	LT CL	NO-PASSING		645.6
0+00.00	0+50.00	LT CL	NO-PASSING		50.0
TOTALS				34908.0	20511.5
USE				55420	

FURNISHING AND ERECTING ROW MARKERS

66600105

STATION	SIDE	OFFSET	EACH
FAP 685 (IL 9)			
1212+50.00	LT	40.00	1
1213+00.00	LT	70.00	1
1219+00.00	LT	100.00	1
1222+00.00	LT	100.00	1
1223+10.10	LT	50.00	1
1224+50.00	LT	40.00	1
1212+50.00	RT	40.00	1
1213+00.00	RT	75.00	1
1218+00.00	RT	100.00	1
1223+10.10	RT	100.00	1
1224+00.00	RT	100.00	1
1224+50.00	RT	70.00	1
TOTAL			12

RAISED REFLECTIVE PAVEMENT MARKERS

78100100

STATION TO STATION		SIDE	MAXIMUM SPACING	2-WAY AMBER
				EACH
FAP 685 (IL 9)				
1094+97.45	1107+33.42	CL	80	16
1107+33.42	1114+07.85	CL	40	17
1114+07.85	1171+39.31	CL	80	72
1171+39.31	1201+48.90	CL	40	76
1201+48.90	1262+55.89	CL	80	77
1263+31.52	1269+77.10	CL	80	9
0+00.00	0+50.00	CL	80	1
TOTAL				268

TEMPORARY CONCRETE BARRIER

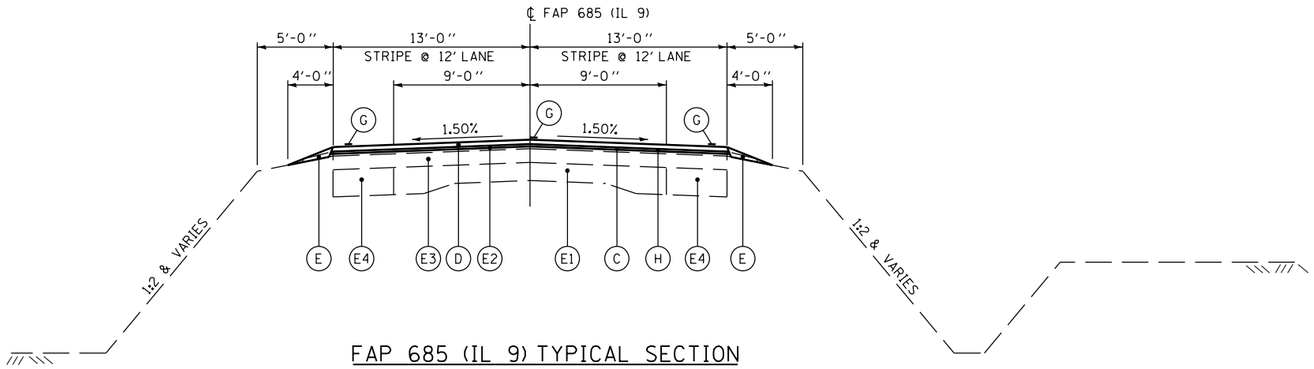
70400100

STATION TO STATION		SIDE	FOOT
FAP 685 (IL 9) - STAGE 2			
1216+87.9	1222+12.1	LT & RT	525
TOTAL			525

RELOCATE TEMPORARY CONCRETE BARRIER

70400200

STATION TO STATION		SIDE	FOOT
FAP 685 (IL 9) - STAGE 3			
1216+87.9	1222+12.1	LT & RT	525
TOTAL			525



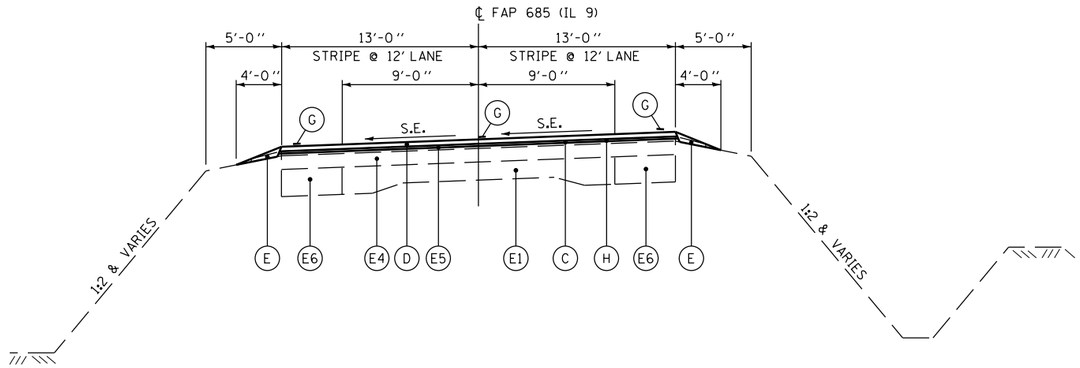
FAP 685 (IL 9) TYPICAL SECTION

STA 1094+97.45 TO STA 1105+67.30
STA 1115+61.60 TO STA 1169+74.10
STA 1181+12.30 TO STA 1182+56.00
STA 1203+08.90 TO STA 1212+33.00 LT
STA 1203+08.90 TO STA 1212+52.00 RT
STA 1232+45.10 TO STA 1253+39.10
STA 1264+95.53(AH) TO STA 1269+77.10
STA 0+00.00 TO STA 0+50.00

STATION EQUATION:
STA 1269+77.10 BK =
STA 0+00.00 AH

NOTE:

- ALSO SEE TYPICAL GUTTER SECTION DETAIL



TYPICAL FAP 685 (IL 9) SUPERELEVATED SECTION

STA 1105+67.30 TO STA 1108+07.30	(S.E. TRANSITION)
STA 1108+07.30 TO STA 1113+21.60	(S.E. = 6.8%)
STA 1113+21.60 TO STA 1115+61.60	(S.E. TRANSITION)
STA 1169+74.10 TO STA 1172+14.10	(S.E. TRANSITION)
STA 1172+14.10 TO STA 1178+72.30 •	(S.E. = 8.0%)
STA 1178+72.30 TO STA 1181+12.30 •	(S.E. TRANSITION)
STA 1182+56.00 TO STA 1184+96.00 •	(S.E. TRANSITION)
STA 1184+96.00 TO STA 1200+68.90 •	(S.E. = 3.0%)
STA 1200+68.90 TO STA 1203+08.90	(S.E. TRANSITION)
STA 1221+50.10 TO STA 1223+90.10	(S.E. TRANSITION)
STA 1224+20.00 TO STA 1230+05.10	(S.E. = 1.6%)
STA 1230+05.10 TO STA 1232+45.10	(S.E. TRANSITION)
STA 1253+39.10 TO STA 1255+79.10	(S.E. TRANSITION)
STA 1255+79.10 TO STA 1261+79.90(BK)	(S.E. = 5.0%)
STA 1261+79.90(BK) TO STA 1264+95.53(AH)	(S.E. TRANSITION)

STATION EQUATION:
STA 1262+55.89 BK =
STA 1263+31.52 AH

NOTE:

- ALSO SEE TYPICAL GUTTER SECTION DETAIL

LEGEND

- (E1) EXISTING PCC PAVEMENT (9"-6"-9")
- (E2) EXISTING HOT-MIX ASPHALT SURFACE COURSE, 1½"±
- (E3) EXISTING HOT-MIX ASPHALT SURFACING, 4½"±
- (E4) EXISTING HOT-MIX ASPHALT BASE COURSE WIDENING, 9"
- (E5) EXISTING AGGREGATE SHOULDERS
- (E6) EXISTING GUTTER
- (E7) EXISTING GUARDRAIL

- (A) PR HMA BASE COURSE WIDENING, 10"
- (B) PR HMA BINDER COURSE, VARIABLE DEPTH (2¼" MIN)
- (C) PR LEVELING BINDER (MACHINE METHOD), ¾" & VARIES
- (D) PR HMA SURFACE COURSE, 1½"
- (E) PR AGGREGATE SHOULDERS, TYPE B, VARIABLE DEPTH
- (F) PR AGGREGATE SHOULDERS, TYPE B (SPECIAL), VARIABLE DEPTH
- (G) PR PAVEMENT MARKING, LINE - 5"
- (H) PR HMA SURFACE REMOVAL, ¾" & VARIES (PAID AS VARIABLE DEPTH)
- (I) PR HMA SURFACE REMOVAL, 2¼" & VARIES
- (J) PR STEEL PLATE BEAM GUARDRAIL (SEE SCHEDULE FOR LOCATIONS)
- (K) PR HMA SHOULDERS, 8"

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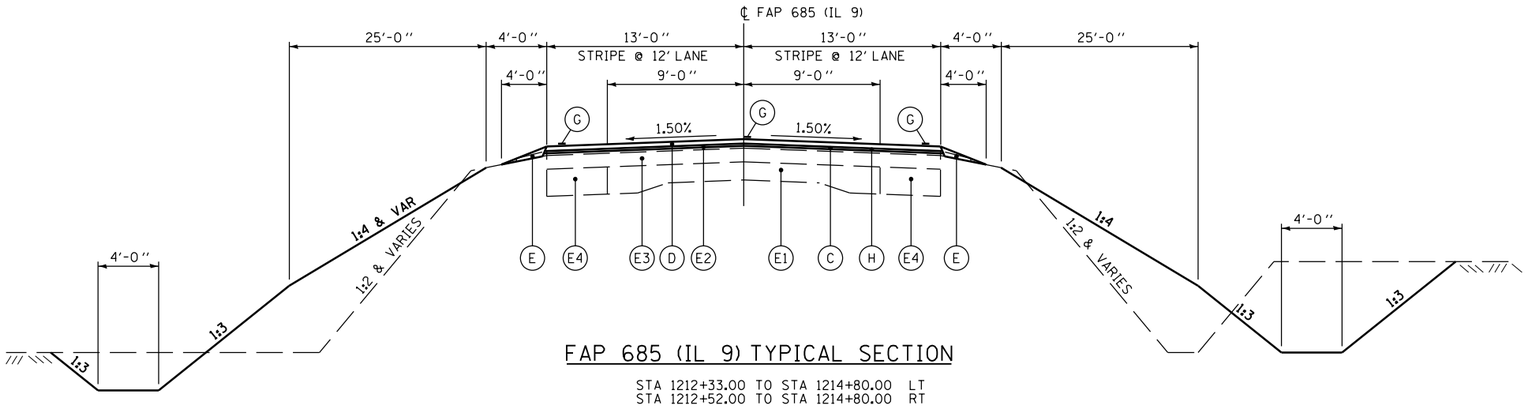
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

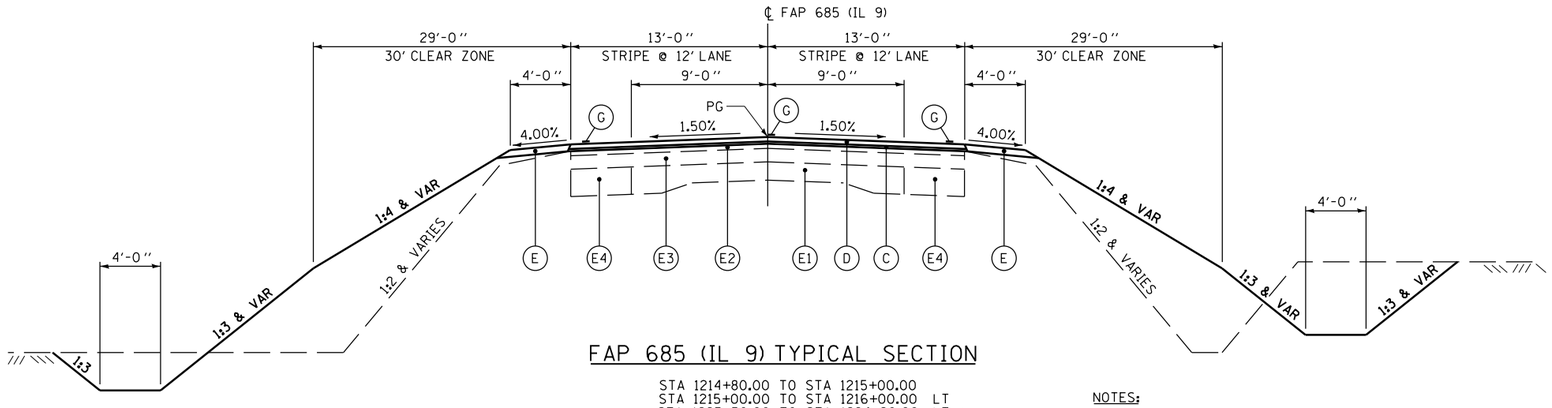
SCALE: none | SHEET NO. 1 OF 3 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	12
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FAP 685 (IL 9) TYPICAL SECTION

STA 1212+33.00 TO STA 1214+80.00 LT
STA 1212+52.00 TO STA 1214+80.00 RT



FAP 685 (IL 9) TYPICAL SECTION

STA 1214+80.00 TO STA 1215+00.00
STA 1215+00.00 TO STA 1216+00.00 LT
STA 1223+50.00 TO STA 1224+20.00 LT •
STA 1224+00.00 TO STA 1224+20.00 RT •

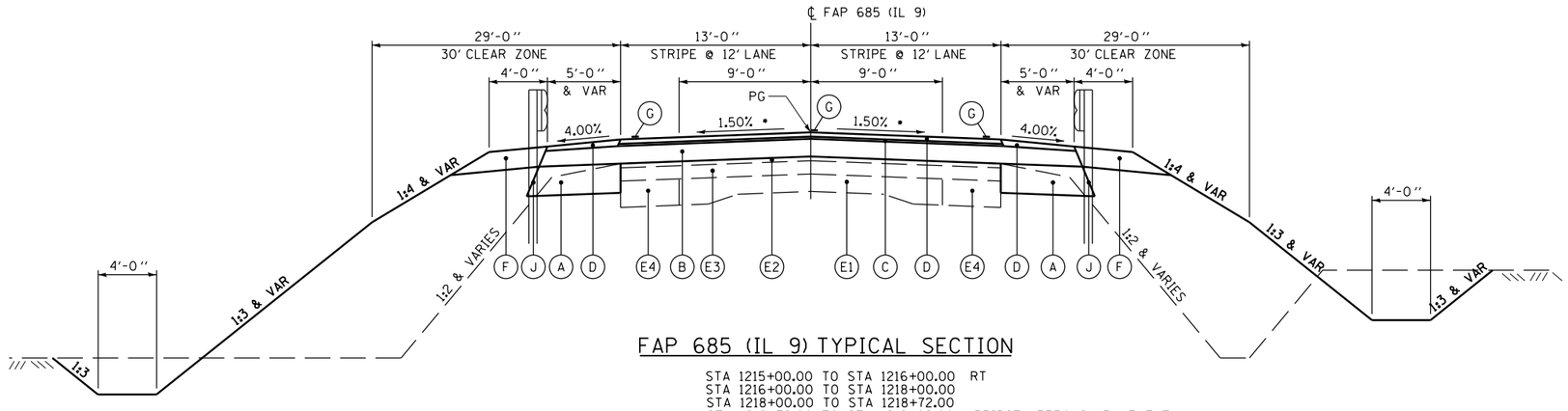
NOTES:

• REVISE FOR SE LOCATIONS PER PLAN SHEET CURVE DATA

LEGEND

(E1) EXISTING PCC PAVEMENT (9"-6"-9")
(E2) EXISTING HOT-MIX ASPHALT SURFACE COURSE, 1½"±
(E3) EXISTING HOT-MIX ASPHALT SURFACING, 4½"±
(E4) EXISTING HOT-MIX ASPHALT BASE COURSE WIDENING, 9"
(E5) EXISTING AGGREGATE SHOULDERS
(E6) EXISTING GUTTER
(E7) EXISTING GUARDRAIL

(A) PR HMA BASE COURSE WIDENING, 10"
(B) PR HMA BINDER COURSE, VARIABLE DEPTH (2¼" MIN)
(C) PR LEVELING BINDER (MACHINE METHOD), ¾" & VARIES
(D) PR HMA SURFACE COURSE, 1½"
(E) PR AGGREGATE SHOULDERS, TYPE B, VARIABLE DEPTH
(F) PR AGGREGATE SHOULDERS, TYPE B (SPECIAL), VARIABLE DEPTH
(G) PR PAVEMENT MARKING, LINE - 5"
(H) PR HMA SURFACE REMOVAL, ¾" & VARIES (PAID AS VARIABLE DEPTH)
(I) PR HMA SURFACE REMOVAL, 2¼" & VARIES
(J) PR STEEL PLATE BEAM GUARDRAIL (SEE SCHEDULE FOR LOCATIONS)
(K) PR HMA SHOULDERS, 8"



FAP 685 (IL 9) TYPICAL SECTION

STA 1215+00.00 TO STA 1216+00.00 RT
STA 1216+00.00 TO STA 1218+00.00
STA 1218+00.00 TO STA 1218+72.00
STA 1218+72.00 TO STA 1219+02.00 (BRIDGE APPROACH PAVEMENT)
STA 1219+02.00 TO STA 1220+06.00 (S.N. 034-0528)
STA 1220+06.00 TO STA 1220+36.00 (BRIDGE APPROACH PAVEMENT)
STA 1220+36.00 TO STA 1223+50.00
STA 1223+50.00 TO STA 1224+00.00 RT •

NOTES:

• REVISE FOR SE LOCATIONS PER PLAN SHEET CURVE DATA
•• SEE SCHEDULE FOR HMA SHOULDER REMOVAL LOCATIONS

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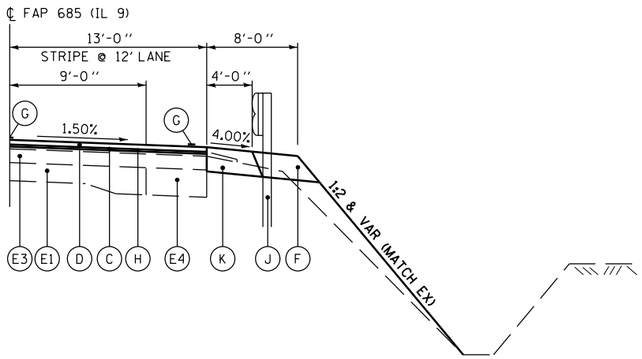
	PLOT SCALE = 100.0002 ' / in.	CHECKED -	REVISED -					685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	13
	PLOT DATE = Nov-03-2010 11:31:27AM	DATE -	REVISED -		SCALE: none	SHEET NO. 2 OF 3 SHEETS	STA. TO STA.			CONTRACT NO. 72B05		
								FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

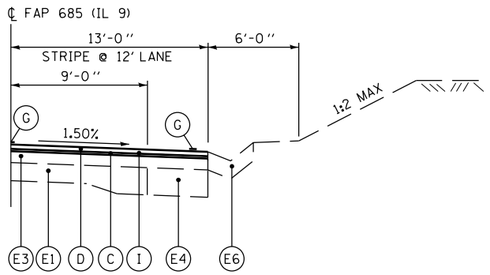


FAP 685 (IL 9) TYPICAL GUARDRAIL SECTION

STA 1171+25	TO STA 1173+81	LT	
STA 1190+00	TO STA 1200+94	RT	
STA 1193+20	TO STA 1194+39	LT	
STA 1207+20	TO STA 1209+26	RT	
STA 1207+10	TO STA 1209+16	LT	
STA 1225+65	TO STA 1232+46	RT	•
STA 1232+05	TO STA 1234+61	LT	

NOTE;

1) STATIONS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED
• PROPOSED HMA SHOULDERS BEGIN AT STATION 1224+00

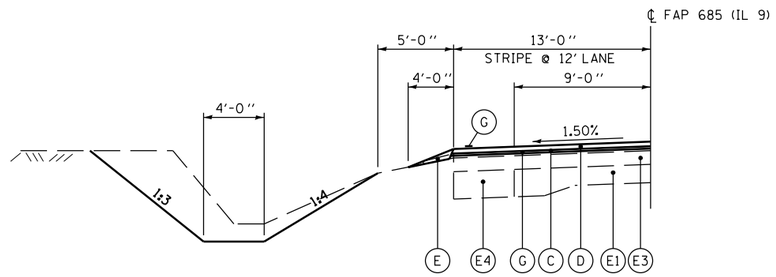


FAP 685 (IL 9) TYPICAL GUTTER SECTION

STA 1175+65	TO STA 1186+35	RT
STA 1179+52	TO STA 1185+70	LT
STA 1232+96	TO STA 1238+42	RT
STA 1234+74	TO STA 1238+42	LT

NOTE;

1) STATIONS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED



FAP 685 (IL 9) TYPICAL DITCH SECTION

STA 1102+00.00 TO STA 1110+00.00 LT

LEGEND

- (E1) EXISTING PCC PAVEMENT (9"-6"-9")
- (E2) EXISTING HOT-MIX ASPHALT SURFACE COURSE, 1½"±
- (E3) EXISTING HOT-MIX ASPHALT SURFACING, 4½"±
- (E4) EXISTING HOT-MIX ASPHALT BASE COURSE WIDENING, 9"
- (E5) EXISTING AGGREGATE SHOULDERS
- (E6) EXISTING GUTTER
- (E7) EXISTING GUARDRAIL

- (A) PR HMA BASE COURSE WIDENING, 10"
- (B) PR HMA BINDER COURSE, VARIABLE DEPTH (2¼" MIN)
- (C) PR LEVELING BINDER (MACHINE METHOD), ¾" & VARIES
- (D) PR HMA SURFACE COURSE, 1½"
- (E) PR AGGREGATE SHOULDERS, TYPE B, VARIABLE DEPTH
- (F) PR AGGREGATE SHOULDERS, TYPE B (SPECIAL), VARIABLE DEPTH
- (G) PR PAVEMENT MARKING, LINE - 5"
- (H) PR HMA SURFACE REMOVAL, ¾" & VARIES (PAID AS VARIABLE DEPTH)
- (I) PR HMA SURFACE REMOVAL, 2¼" & VARIES
- (J) PR STEEL PLATE BEAM GUARDRAIL (SEE SCHEDULE FOR LOCATIONS)
- (K) PR HMA SHOULDERS, 8"

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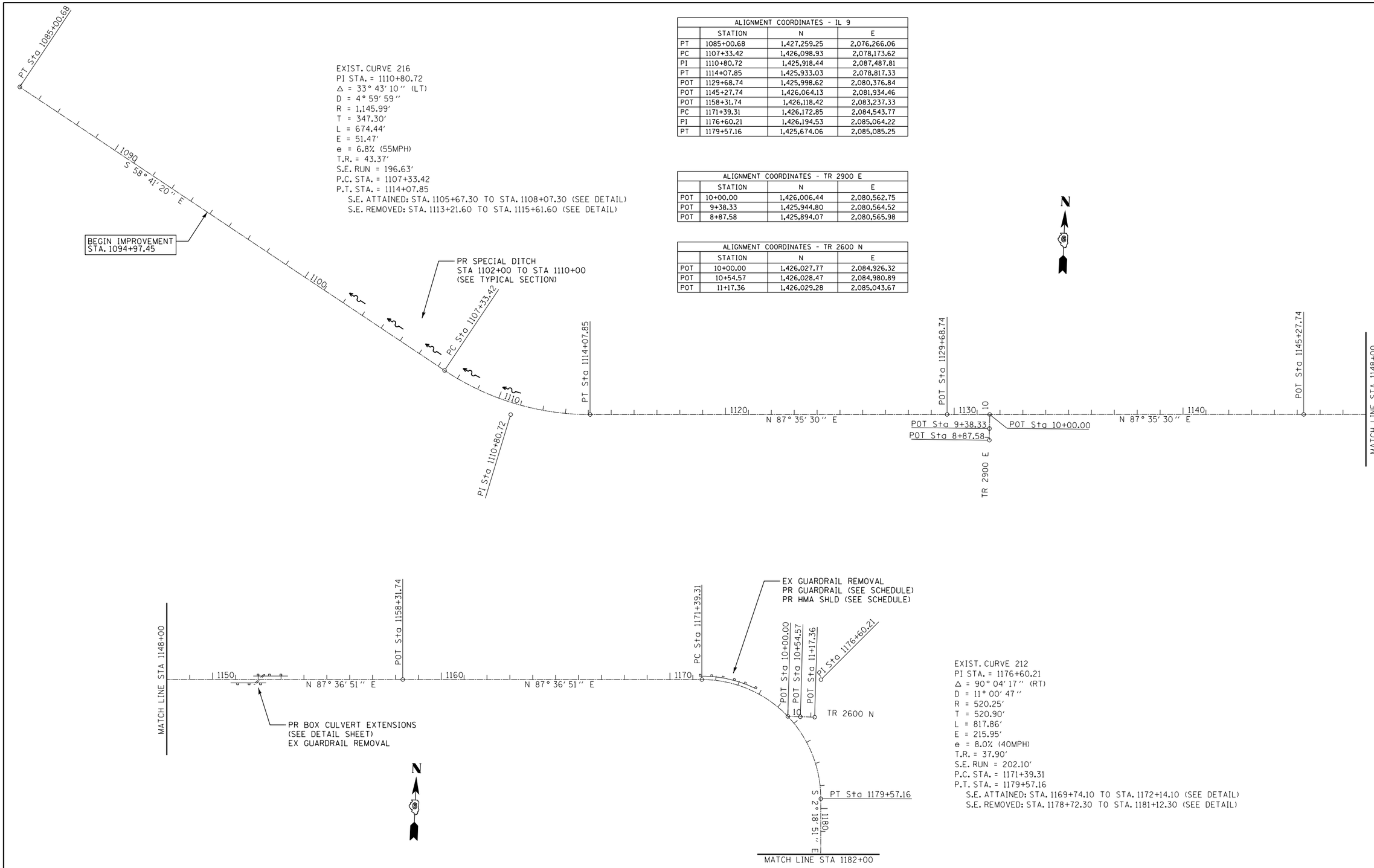
	PLOT DATE = Nov-03-2010 11:31:27AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: none | SHEET NO. 3 OF 3 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	14
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXIST. CURVE 216
PI STA. = 1110+80.72
Δ = 33° 43' 10'' (LT)
D = 4° 59' 59''
R = 1,145.99'
T = 347.30'
L = 674.44'
E = 51.47'
e = 6.8% (55MPH)
T.R. = 43.37'
S.E. RUN = 196.63'
P.C. STA. = 1107+33.42
P.T. STA. = 1114+07.85
S.E. ATTAINED: STA. 1105+67.30 TO STA. 1108+07.30 (SEE DETAIL)
S.E. REMOVED: STA. 1113+21.60 TO STA. 1115+61.60 (SEE DETAIL)

EXIST. CURVE 212
PI STA. = 1176+60.21
Δ = 90° 04' 17'' (RT)
D = 11° 00' 47''
R = 520.25'
T = 520.90'
L = 817.86'
E = 215.95'
e = 8.0% (40MPH)
T.R. = 37.90'
S.E. RUN = 202.10'
P.C. STA. = 1171+39.31
P.T. STA. = 1179+57.16
S.E. ATTAINED: STA. 1169+74.10 TO STA. 1172+14.10 (SEE DETAIL)
S.E. REMOVED: STA. 1178+72.30 TO STA. 1181+12.30 (SEE DETAIL)

ALIGNMENT COORDINATES - IL 9			
	STATION	N	E
PT	1085+00.68	1,427,259.25	2,076,266.06
PC	1107+33.42	1,426,098.93	2,078,173.62
PI	1110+80.72	1,425,918.44	2,087,487.81
PT	1114+07.85	1,425,933.03	2,078,817.33
POT	1129+68.74	1,425,998.62	2,080,376.84
POT	1145+27.74	1,426,064.13	2,081,934.46
POT	1158+31.74	1,426,118.42	2,083,237.33
PC	1171+39.31	1,426,172.85	2,084,543.77
PI	1176+60.21	1,426,194.53	2,085,064.22
PT	1179+57.16	1,425,674.06	2,085,085.25

ALIGNMENT COORDINATES - TR 2900 E			
	STATION	N	E
POT	10+00.00	1,426,006.44	2,080,562.75
POT	9+38.33	1,425,944.80	2,080,564.52
POT	8+87.58	1,425,894.07	2,080,565.98

ALIGNMENT COORDINATES - TR 2600 N			
	STATION	N	E
POT	10+00.00	1,426,027.77	2,084,926.32
POT	10+54.57	1,426,028.47	2,084,980.89
POT	11+17.36	1,426,029.28	2,085,043.67

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		DRAWN -	REVISED -
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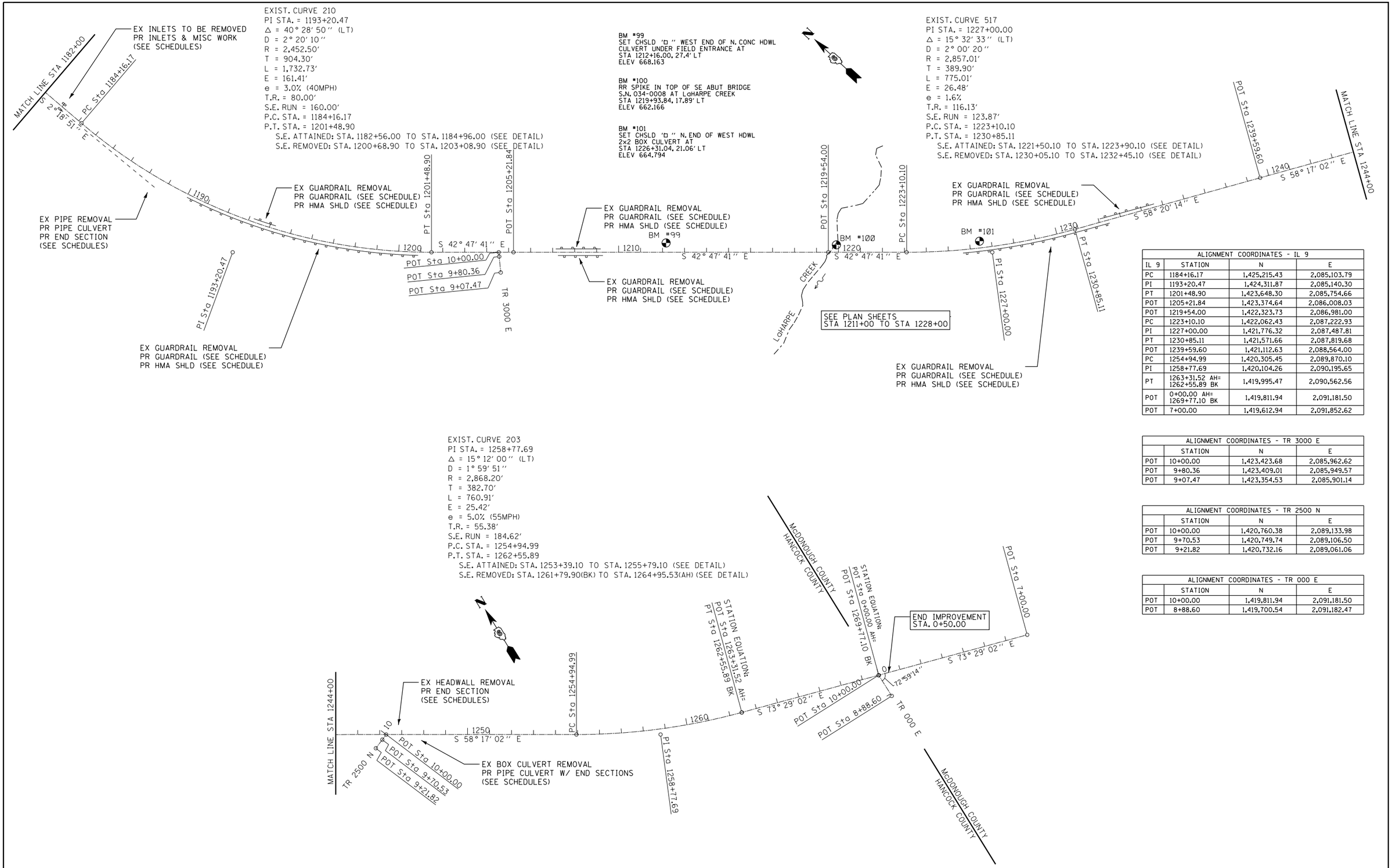
	PLOT DATE = Nov-03-2010 11:31:38AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HORIZONTAL ALIGNMENT

SCALE: 1"=200' | SHEET NO. 1 OF 2 SHEETS | STA. 1085+00.68 STA. 1182+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	15
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ALIGNMENT COORDINATES - IL 9			
IL 9	STATION	N	E
PC	1184+16.17	1,425,215.43	2,085,103.79
PI	1193+20.47	1,424,311.87	2,085,140.30
PT	1201+48.90	1,423,648.30	2,085,754.66
POT	1205+21.84	1,423,374.64	2,086,008.03
POT	1219+54.00	1,422,323.73	2,086,981.00
PC	1223+10.10	1,422,062.43	2,087,222.93
PI	1227+00.00	1,421,776.32	2,087,487.81
PT	1230+85.11	1,421,571.66	2,087,819.68
POT	1239+59.60	1,421,112.63	2,088,564.00
PC	1254+94.99	1,420,305.45	2,089,870.10
PI	1258+77.69	1,420,104.26	2,090,195.65
PT	1263+31.52 AH= 1262+55.89 BK	1,419,995.47	2,090,562.56
POT	0+00.00 AH= 1269+77.10 BK	1,419,811.94	2,091,181.50
POT	7+00.00	1,419,612.94	2,091,852.62

ALIGNMENT COORDINATES - TR 3000 E			
	STATION	N	E
POT	10+00.00	1,423,423.68	2,085,962.62
POT	9+80.36	1,423,409.01	2,085,949.57
POT	9+07.47	1,423,354.53	2,085,901.14

ALIGNMENT COORDINATES - TR 2500 N			
	STATION	N	E
POT	10+00.00	1,420,760.38	2,089,133.98
POT	9+70.53	1,420,749.74	2,089,106.50
POT	9+21.82	1,420,732.16	2,089,061.06

ALIGNMENT COORDINATES - TR 000 E			
	STATION	N	E
POT	10+00.00	1,419,811.94	2,091,181.50
POT	8+88.60	1,419,700.54	2,091,182.47

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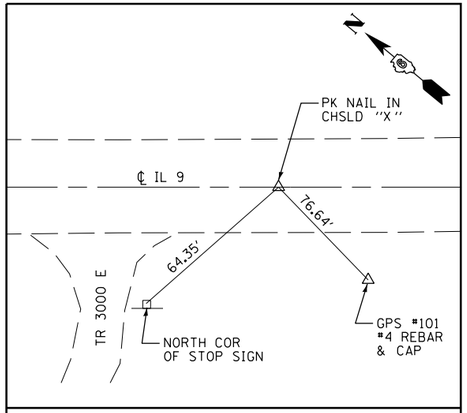
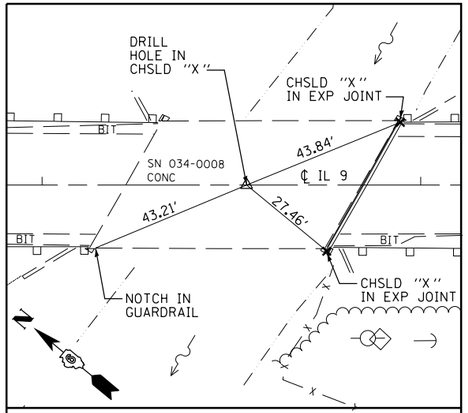
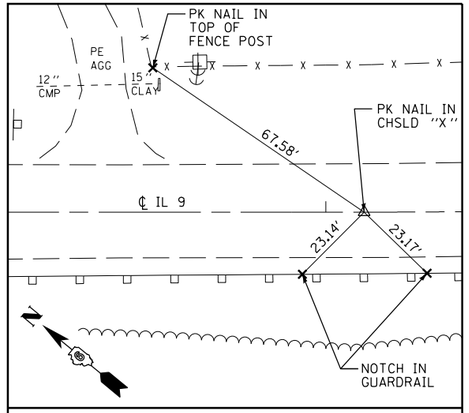
	PLOT SCALE = 400.0000 ' / in.	DRAWN -	REVISED -			685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	16
	PLOT DATE = Nov-03-2010 11:31:47AM	CHECKED -	REVISED -					CONTRACT NO. 72B05		
		DATE -	REVISED -		SCALE: 1"=200' SHEET NO. 2 OF 2 SHEETS STA. 1182+00.00 STA. 7+00.00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



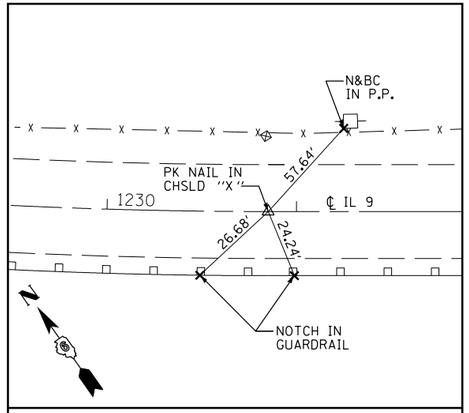
FAP 685 (IL 9) POT STA 1205+21.84
N 1,423,374.64 E 2,086,008.03



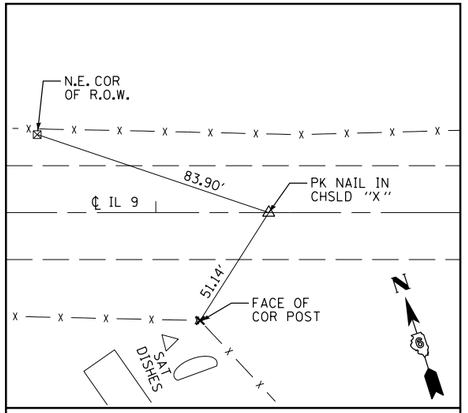
FAP 685 (IL 9) POT STA 1219+54.00
N 1,422,323.73 E 2,086,981.00



FAP 685 (IL 9) PC STA 1223+10.10
N 1,422,062.43 E 2,087,222.93



FAP 685 (IL 9) PT STA 1230+85.11
N 1,421,571.66 E 2,087,819.68



FAP 685 (IL 9) POT STA 1239+59.60
N 1,421,112.63 E 2,088,564.00

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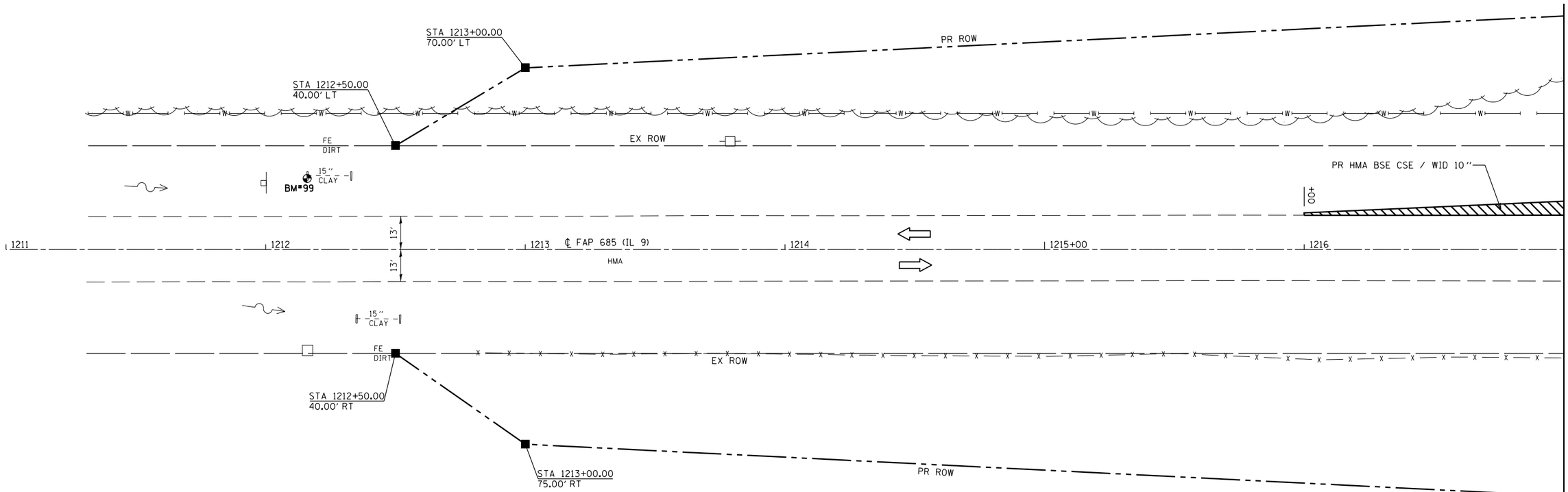
		DATE -	REVISED -		

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	17
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- DRUM WITH BI-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY TRAFFIC SIGNAL
- TEMPORARY IMPACT ATTENUATOR
- WORK ZONE
- HOT-MIX ASPHALT BASE COURSE (WIDENING)

STAGE CONSTRUCTION SEQUENCE

THE FOLLOWING STAGE CONSTRUCTION SEQUENCE IS FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PLANNING AND EXECUTING THIS PROJECT WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

STAGE 1:

CONSTRUCT HOT-MIX ASPHALT BASE COURSE WIDENING 10" ALONG WESTBOUND LANES. UTILIZE TRAFFIC CONTROL AND PROTECTION STANDARD 701326.

SET UP STAGE 2 TRAFFIC CONTROL.

20 0 20 40

SCALE: 1" = 20'

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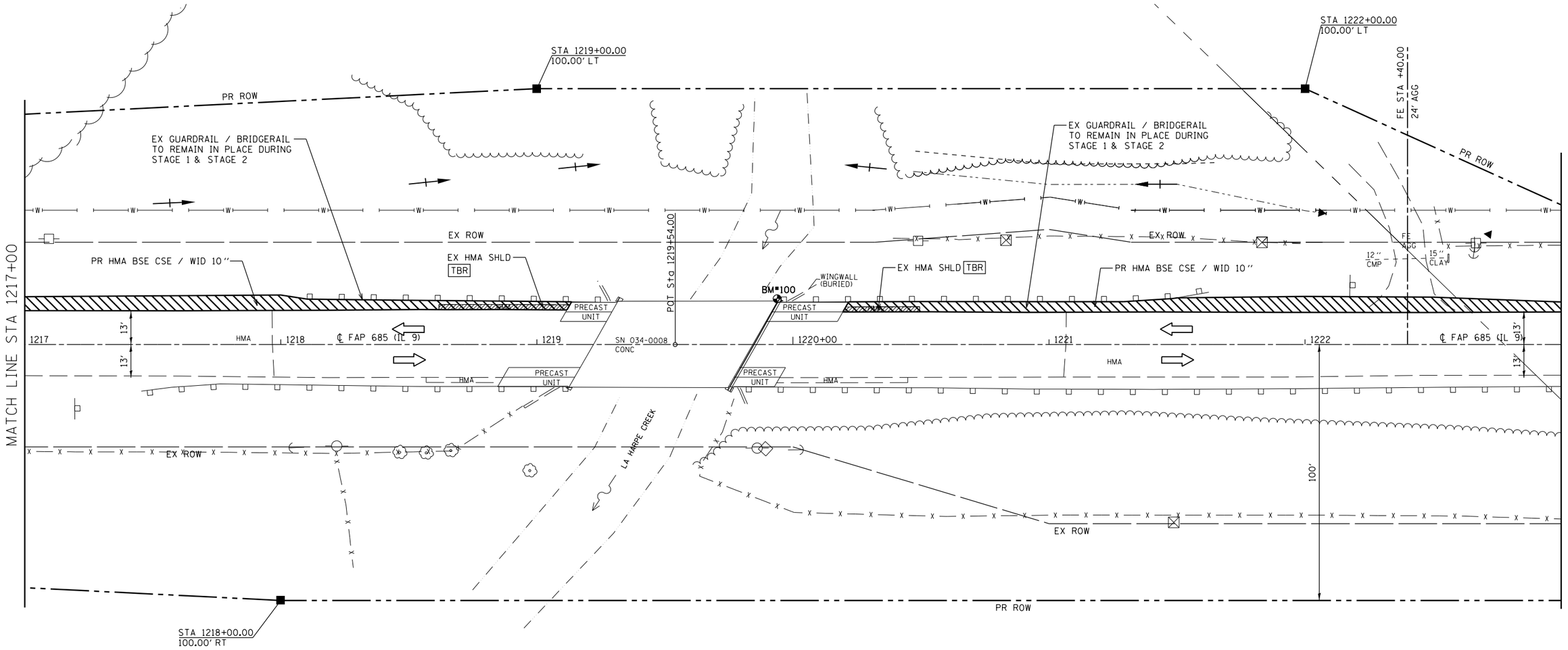
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION
STAGE 1

SCALE: 1"=20' | SHEET NO. 1 OF 12 SHEETS | STA. 1211+000 STA. 1217+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	18
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- DRUM WITH BI-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY TRAFFIC SIGNAL
- TEMPORARY IMPACT ATTENUATOR
- WORK ZONE
- HOT-MIX ASPHALT BASE COURSE (WIDENING)

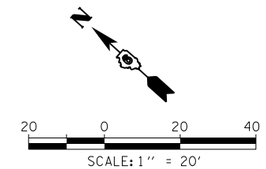
STAGE CONSTRUCTION SEQUENCE

THE FOLLOWING STAGE CONSTRUCTION SEQUENCE IS FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PLANNING AND EXECUTING THIS PROJECT WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

STAGE 1:

CONSTRUCT HOT-MIX ASPHALT BASE COURSE WIDENING 10" ALONG WESTBOUND LANES. UTILIZE TRAFFIC CONTROL AND PROTECTION STANDARD 701326.

SET UP STAGE 2 TRAFFIC CONTROL.



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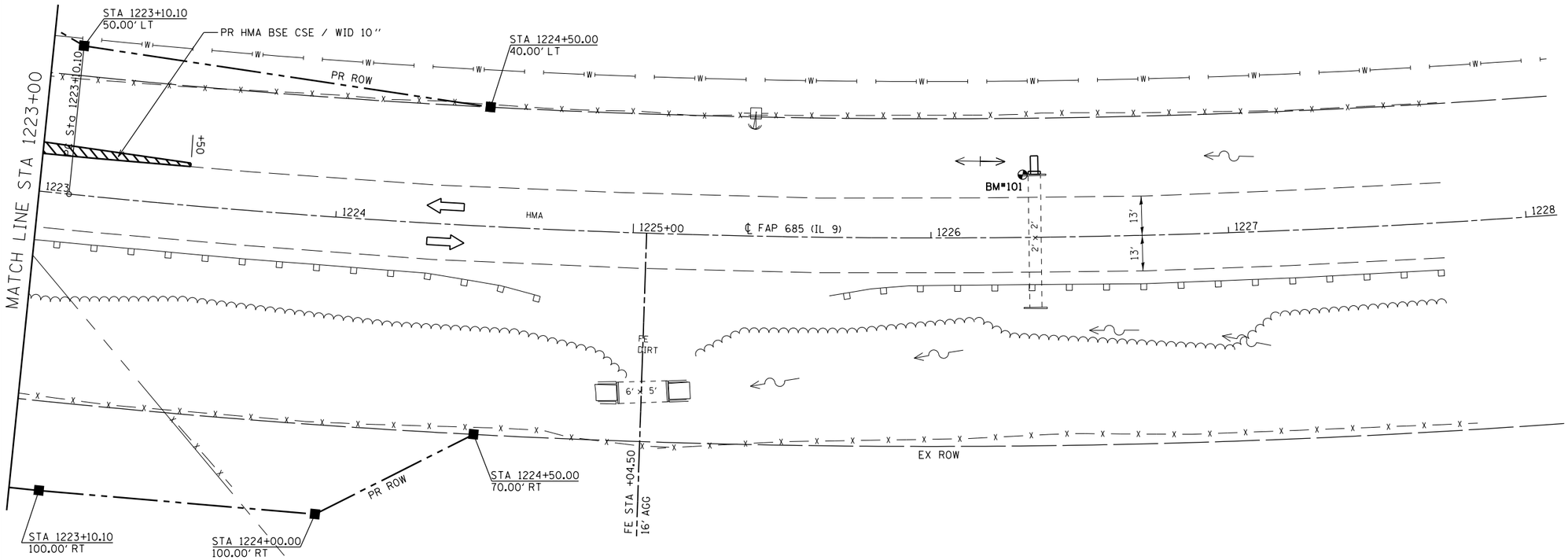
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION
STAGE 1

SCALE: 1"=20' | SHEET NO. 2 OF 12 SHEETS | STA. 1217+00.00 STA. 1223+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	19
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXIST. CURVE 517
PI STA. = 1227+00.00
Δ = 15° 32' 33" (LT)
D = 2° 00' 20"
R = 2,857.01'
T = 389.90'
L = 775.01'
E = 26.48'
e = 1.60%
T.R. = 116.13'
S.E. RUN = 123.87'
P.C. STA. = 1223+10.10
P.T. STA. = 1230+85.11
S.E. ATTAINED STA 1221+50.10 TO STA 1223+90.10
S.E. REMOVED STA 1230+05.10 TO STA 1232+45.10

LEGEND

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- DRUM WITH BI-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY TRAFFIC SIGNAL
- TEMPORARY IMPACT ATTENUATOR
- WORK ZONE
- HOT-MIX ASPHALT BASE COURSE (WIDENING)

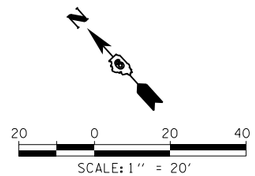
STAGE CONSTRUCTION SEQUENCE

THE FOLLOWING STAGE CONSTRUCTION SEQUENCE IS FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PLANNING AND EXECUTING THIS PROJECT WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

STAGE 1:

CONSTRUCT HOT-MIX ASPHALT BASE COURSE WIDENING 10" ALONG WESTBOUND LANES. UTILIZE TRAFFIC CONTROL AND PROTECTION STANDARD 701326.

SET UP STAGE 2 TRAFFIC CONTROL.



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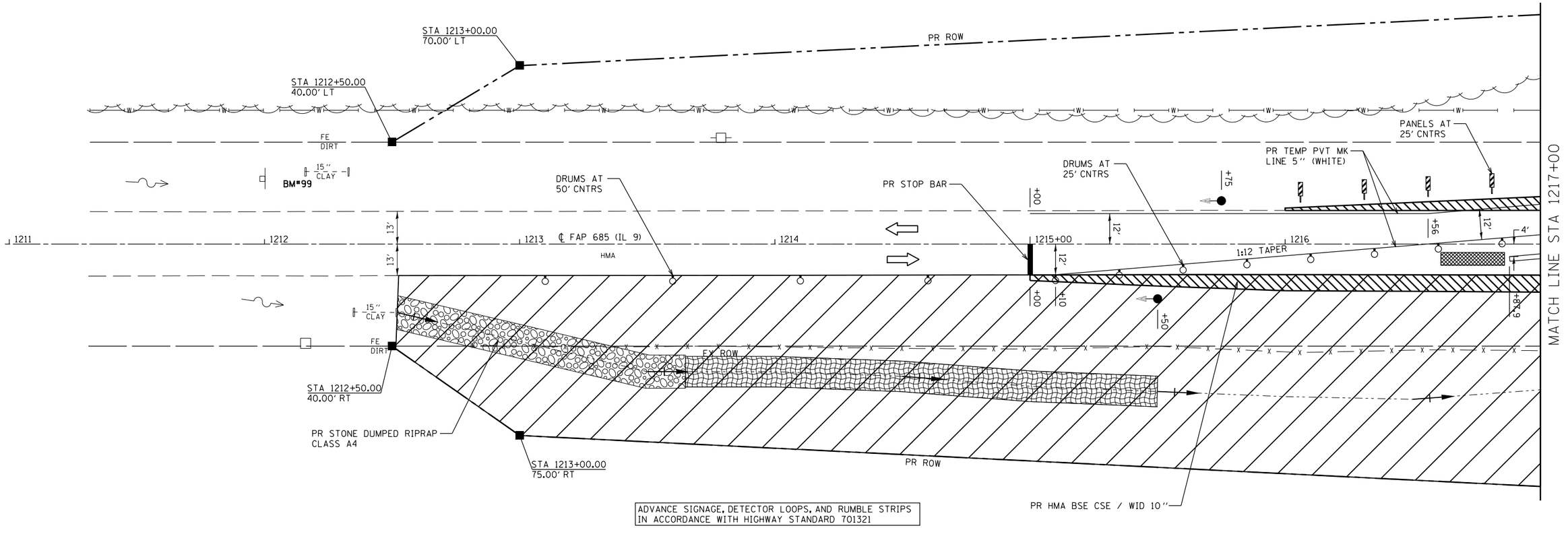
	PLOT DATE = Nov-03-2010 11:32:24AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION
STAGE 1

SCALE: 1"=20' | SHEET NO. 3 OF 12 SHEETS | STA. 1223+000 STA. 1228+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	20
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ADVANCE SIGNAGE, DETECTOR LOOPS, AND RUMBLE STRIPS IN ACCORDANCE WITH HIGHWAY STANDARD 701321

LEGEND

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- DRUM WITH BI-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY TRAFFIC SIGNAL
- TEMPORARY IMPACT ATTENUATOR
- WORK ZONE
- HOT-MIX ASPHALT BASE COURSE (WIDENING)

STAGE CONSTRUCTION SEQUENCE

THE FOLLOWING STAGE CONSTRUCTION SEQUENCE IS FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PLANNING AND EXECUTING THIS PROJECT WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

STAGE 2:

REMOVE SOUTH HALF OF EXISTING STRUCTURE NO. 034-0008. REMOVE EXISTING SHOULDER CONCRETE PRECAST UNITS. REMOVE EXISTING PAVEMENT FOR BRIDGE APPROACH PAVEMENT CONSTRUCTION.

CONSTRUCT SOUTH SECTION OF NEW STRUCTURE NO. 034-0528. CONSTRUCT SOUTH SECTION OF BRIDGE APPROACH PAVEMENT.

CONSTRUCT HOT-MIX ASPHALT BASE COURSE WIDENING 10" ALONG EASTBOUND LANES. CONSTRUCT TEMPORARY HMA RAMPS TO BRIDGE APPROACH PAVEMENT. INSTALL STEEL PLATE BEAM GUARDRAIL.

GRADE AND SHAPE PROPOSED DITCHES ALONG EASTBOUND LANES. UTILIZE TRAFFIC CONTROL AND PROTECTION STANDARD 701006 WHEN APPLICABLE.

REMOVE STAGE 2 TRAFFIC CONTROL.

GENERAL NOTES

VERTICAL PANELS, DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, SIGNS, TRAFFIC SIGNALS, DETECTOR LOOPS, TEMPORARY RUMBLE STRIPS, AND TYPE C BIDIRECTIONAL REFLECTORS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)"

THIS WORK SHALL SUPPLIMENT AND BE IN ACCORDANCE WITH HIGHWAY STANDARD 701321.

THE CONTRACTOR SHALL PLACE MAX WIDTH SIGNS BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL.

REMOVE ALL CONFLICTING PAVEMENT MARKINGS.

N

20 0 20 40

SCALE: 1" = 20'

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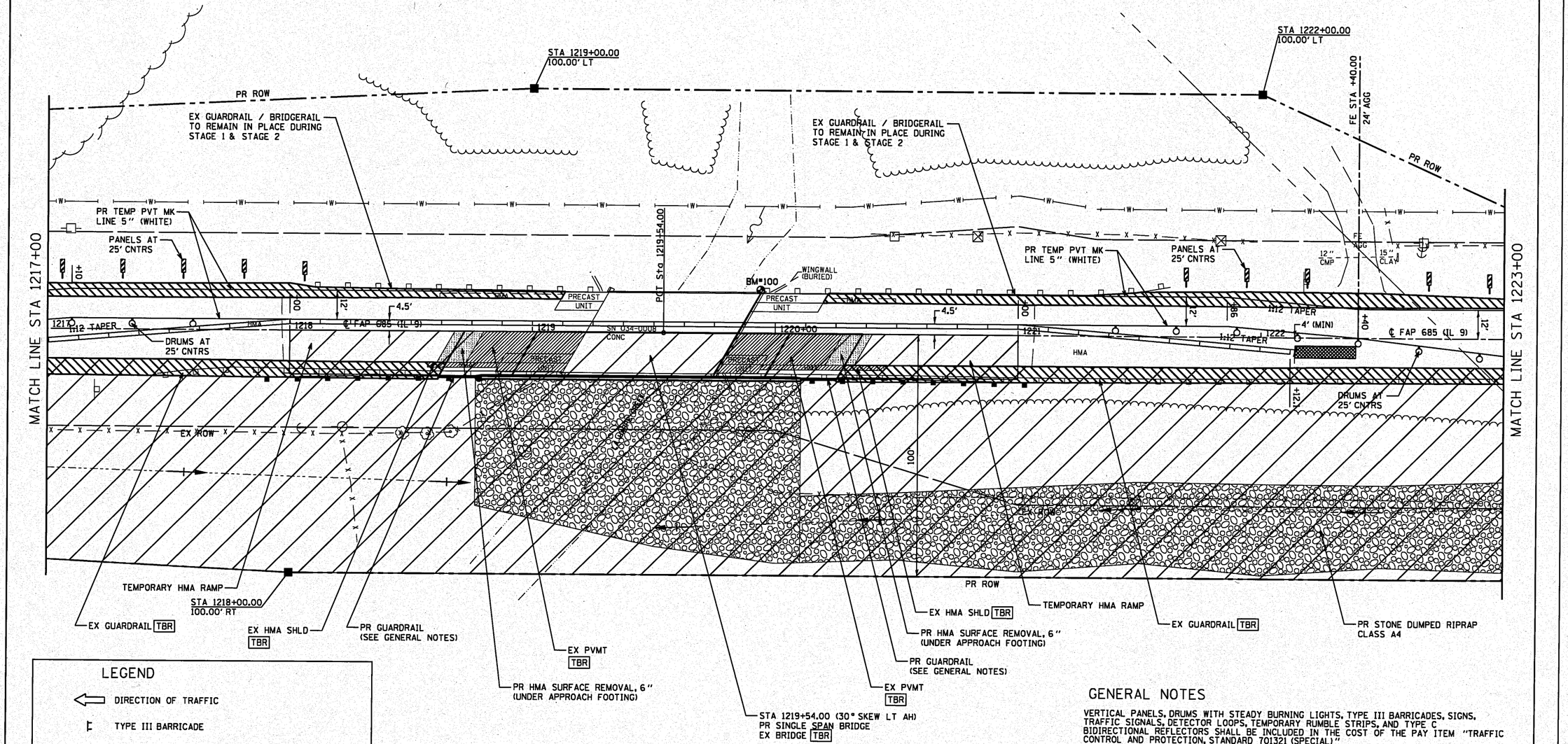
	PLOT DATE = Nov-03-2010 11:32:31AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION
STAGE 2

SCALE: 1"=20' | SHEET NO. 4 OF 12 SHEETS | STA. 1211+0000 STA. 1217+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	21
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- DRUM WITH BI-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY TRAFFIC SIGNAL
- TEMPORARY IMPACT ATTENUATOR
- WORK ZONE
- HOT-MIX ASPHALT BASE COURSE (WIDENING)

STAGE CONSTRUCTION SEQUENCE

THE FOLLOWING STAGE CONSTRUCTION SEQUENCE IS FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PLANNING AND EXECUTING THIS PROJECT WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

STAGE 2:

REMOVE SOUTH HALF OF EXISTING STRUCTURE NO. 034-0008. REMOVE EXISTING SHOULDER CONCRETE PRECAST UNITS. REMOVE EXISTING PAVEMENT FOR BRIDGE APPROACH PAVEMENT CONSTRUCTION.

CONSTRUCT SOUTH SECTION OF NEW STRUCTURE NO. 034-0528. CONSTRUCT SOUTH SECTION OF BRIDGE APPROACH PAVEMENT.

CONSTRUCT HOT-MIX ASPHALT BASE COURSE WIDENING 10" ALONG EASTBOUND LANES. CONSTRUCT TEMPORARY HMA RAMPS TO BRIDGE APPROACH PAVEMENT. INSTALL STEEL PLATE BEAM GUARDRAIL.

GRADE AND SHAPE PROPOSED DITCHES ALONG EASTBOUND LANES. UTILIZE TRAFFIC CONTROL AND PROTECTION STANDARD 701006 WHEN APPLICABLE.

REMOVE STAGE 2 TRAFFIC CONTROL.

GENERAL NOTES

VERTICAL PANELS, DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, SIGNS, TRAFFIC SIGNALS, DETECTOR LOOPS, TEMPORARY RUMBLE STRIPS, AND TYPE C BIDIRECTIONAL REFLECTORS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)"

THIS WORK SHALL SUPPLIMENT AND BE IN ACCORDANCE WITH HIGHWAY STANDARD 701321.

THE CONTRACTOR SHALL PLACE MAX WIDTH SIGNS BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL.

REMOVE ALL CONFLICTING PAVEMENT MARKINGS.

PROPOSED GUARDRAIL SHALL CONSIST OF A TRAFFIC BARRIER TERMINAL TYPE 6 INSTALLED AT FINAL HEIGHT AND A TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT) INSTALLED ALONG TEMPORARY RAMP.

20 0 20 40
SCALE: 1" = 20'

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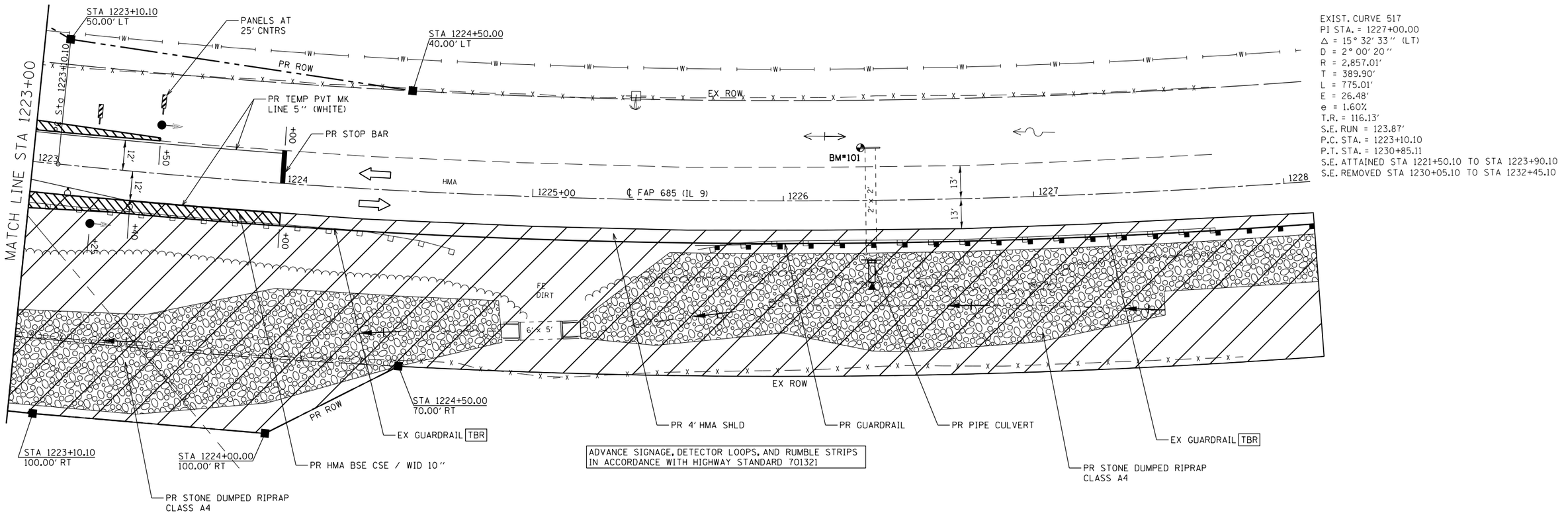
	PLOT DATE = Dec-03-2010 08:10:36AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION
STAGE 2

SCALE: 1"=20' | SHEET NO. 5 OF 12 SHEETS | STA. 1217+00 TO STA. 1223+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	22
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXIST. CURVE 517
PI STA. = 1227+00.00
Δ = 15° 32' 33" (LT)
D = 2° 00' 20"
R = 2,857.01'
T = 389.90'
L = 775.01'
E = 26.48'
e = 1.60%
T.R. = 116.13'
S.E. RUN = 123.87'
P.C. STA. = 1223+10.10
P.T. STA. = 1230+85.11
S.E. ATTAINED STA 1221+50.10 TO STA 1223+90.10
S.E. REMOVED STA 1230+05.10 TO STA 1232+45.10

ADVANCE SIGNAGE, DETECTOR LOOPS, AND RUMBLE STRIPS IN ACCORDANCE WITH HIGHWAY STANDARD 701321

LEGEND

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- DRUM WITH BI-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY TRAFFIC SIGNAL
- TEMPORARY IMPACT ATTENUATOR
- WORK ZONE
- HOT-MIX ASPHALT BASE COURSE (WIDENING)

STAGE CONSTRUCTION SEQUENCE

THE FOLLOWING STAGE CONSTRUCTION SEQUENCE IS FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PLANNING AND EXECUTING THIS PROJECT WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

STAGE 2:

REMOVE SOUTH HALF OF EXISTING STRUCTURE NO. 034-0008. REMOVE EXISTING SHOULDER CONCRETE PRECAST UNITS. REMOVE EXISTING PAVEMENT FOR BRIDGE APPROACH PAVEMENT CONSTRUCTION.

CONSTRUCT SOUTH SECTION OF NEW STRUCTURE NO. 034-0528. CONSTRUCT SOUTH SECTION OF BRIDGE APPROACH PAVEMENT.

CONSTRUCT HOT-MIX ASPHALT BASE COURSE WIDENING 10" ALONG EASTBOUND LANES. CONSTRUCT TEMPORARY HMA RAMPS TO BRIDGE APPROACH PAVEMENT. INSTALL STEEL PLATE BEAM GUARDRAIL.

GRADE AND SHAPE PROPOSED DITCHES ALONG EASTBOUND LANES. UTILIZE TRAFFIC CONTROL AND PROTECTION STANDARD 701006 WHEN APPLICABLE.

REMOVE STAGE 2 TRAFFIC CONTROL.

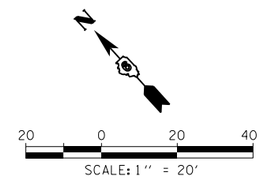
GENERAL NOTES

VERTICAL PANELS, DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, SIGNS, TRAFFIC SIGNALS, DETECTOR LOOPS, TEMPORARY RUMBLE STRIPS, AND TYPE C BIDIRECTIONAL REFLECTORS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)"

THIS WORK SHALL SUPPLIMENT AND BE IN ACCORDANCE WITH HIGHWAY STANDARD 701321.

THE CONTRACTOR SHALL PLACE MAX WIDTH SIGNS BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL.

REMOVE ALL CONFLICTING PAVEMENT MARKINGS.



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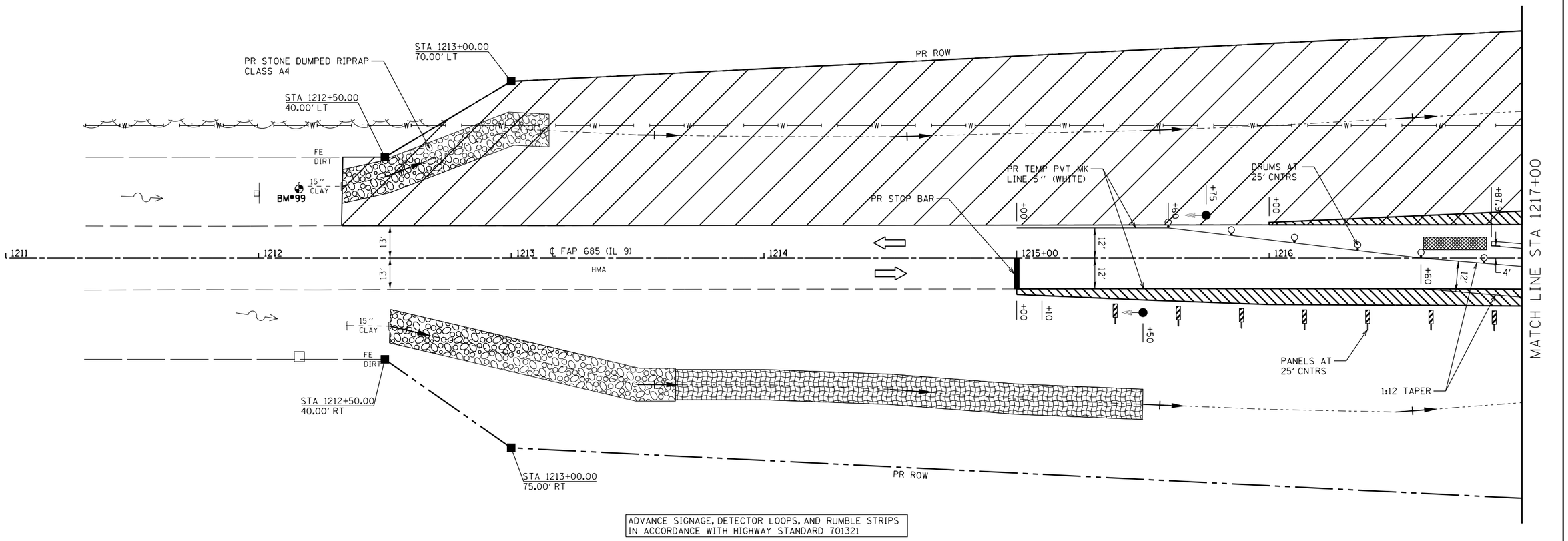
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION
STAGE 2

SCALE: 1"=20' | SHEET NO. 6 OF 12 SHEETS | STA. 1223+000 STA. 1228+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	23
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ADVANCE SIGNAGE, DETECTOR LOOPS, AND RUMBLE STRIPS IN ACCORDANCE WITH HIGHWAY STANDARD 701321

LEGEND

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- DRUM WITH BI-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY TRAFFIC SIGNAL
- TEMPORARY IMPACT ATTENUATOR
- WORK ZONE
- HOT-MIX ASPHALT BASE COURSE (WIDENING)

STAGE CONSTRUCTION SEQUENCE

THE FOLLOWING STAGE CONSTRUCTION SEQUENCE IS FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PLANNING AND EXECUTING THIS PROJECT WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

STAGE 3:

SET UP STAGE 3 TRAFFIC CONTROL.

REMOVE NORTH HALF OF EXISTIG STRUCTURE NO. 034-0008. REMOVE EXISTING SHOULDER CONCRETE PRECAST UNITS. REMOVE EXISTING PAVEMENT FOR BRIDGE APPROACH PAVEMENT CONSTRUCTION.

CONSTRUCT NORTH SECTION OF NEW STRUCTURE NO. 034-0528. CONSTRUCT NORTH SECTION OF BRIDGE APPROACH PAVEMENT.

CONSTRUCT TEMPORARY HMA RAMPS TO BRIDGE APPROACH PAVEMENT. INSTALL TRAFFIC BARRIER TERMINAL TYPE 6 ONLY. USE BARRICADES OR DRUMS AT ENDS.

GRADE AND SHAPE PROPOSED DITCHES ALONG WESTBOUND LANES. UTILIZE TRAFFIC CONTROL AND PROTECTION STANDARD 701006 WHEN APPLICABLE.

GRADE AND SHAPE UPSTREAM CHANNEL.

REMOVE STAGE 3 TRAFFIC CONTROL.

GENERAL NOTES

VERTICAL PANELS, DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, SIGNS, TRAFFIC SIGNALS, DETECTOR LOOPS, TEMPORARY RUMBLE STRIPS, AND TYPE C BIDIRECTIONAL REFLECTORS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)"

THIS WORK SHALL SUPPLIMENT AND BE IN ACCORDANCE WITH HIGHWAY STANDARD 701321.

THE CONTRACTOR SHALL PLACE MAX WIDTH SIGNS BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL.

REMOVE ALL CONFLICTING PAVEMENT MARKINGS.

N

20 0 20 40

SCALE: 1" = 20'

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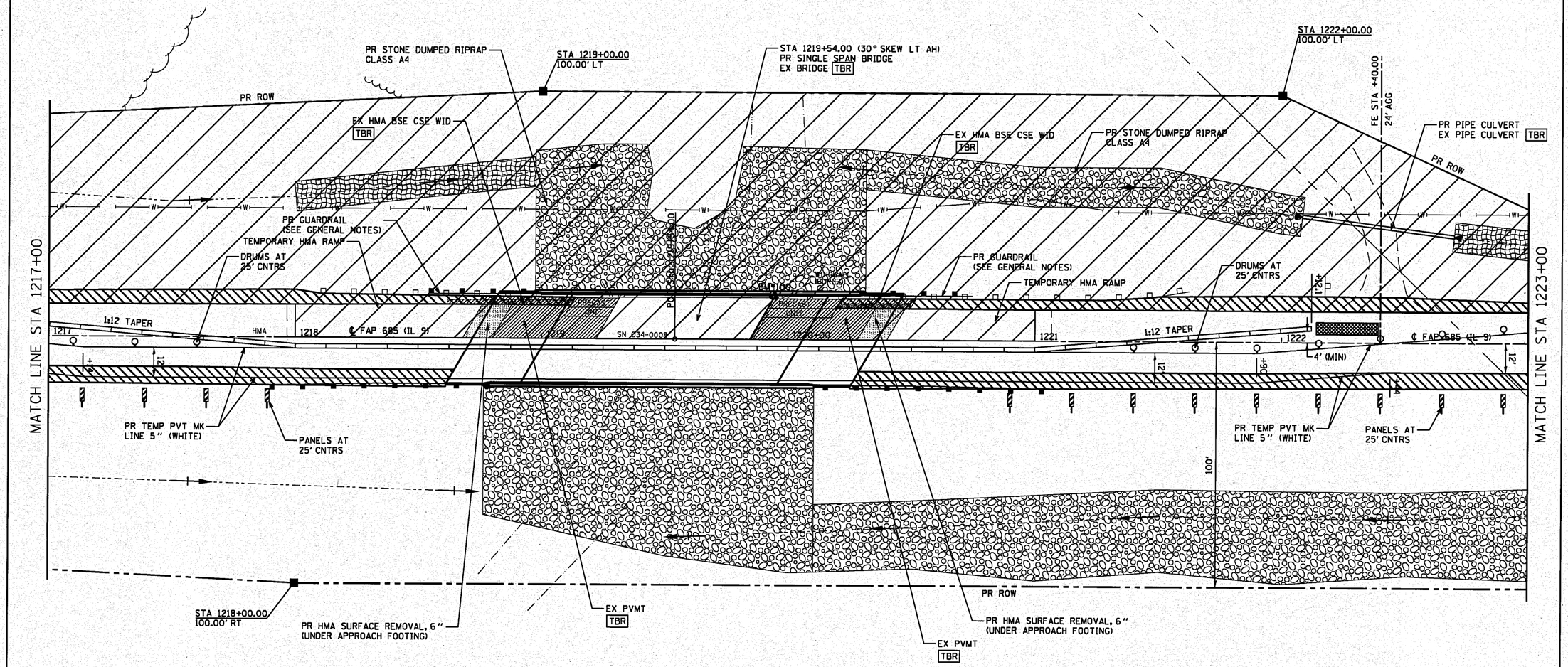
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION
STAGE 3

SCALE: 1"=20' | SHEET NO. 7 OF 12 SHEETS | STA. 1211+000 STA. 1217+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	24
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- DRUM WITH BI-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY TRAFFIC SIGNAL
- TEMPORARY IMPACT ATTENUATOR
- WORK ZONE
- HOT-MIX ASPHALT BASE COURSE (WIDENING)

STAGE CONSTRUCTION SEQUENCE

THE FOLLOWING STAGE CONSTRUCTION SEQUENCE IS FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PLANNING AND EXECUTING THIS PROJECT WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

STAGE 3:

SET UP STAGE 3 TRAFFIC CONTROL.

REMOVE NORTH HALF OF EXISTIG STRUCTURE NO. 034-0008. REMOVE EXISTING SHOULDER CONCRETE PRECAST UNITS. REMOVE EXISTING PAVEMENT FOR BRIDGE APPROACH PAVEMENT CONSTRUCTION.

CONSTRUCT NORTH SECTION OF NEW STRUCTURE NO. 034-0528. CONSTRUCT NORTH SECTION OF BRIDGE APPROACH PAVEMENT.

CONSTRUCT TEMPORARY HMA RAMPS TO BRIDGE APPROACH PAVEMENT. INSTALL TRAFFIC BARRIER TERMINAL TYPE 6 ONLY. USE BARRICADES OR DRUMS AT ENDS.

GRADE AND SHAPE PROPOSED DITCHES ALONG WESTBOUND LANES. UTILIZE TRAFFIC CONTROL AND PROTECTION STANDARD 701006 WHEN APPLICABLE.

GRADE AND SHAPE UPSTREAM CHANNEL.

REMOVE STAGE 3 TRAFFIC CONTROL.

GENERAL NOTES

VERTICAL PANELS, DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, SIGNS, TRAFFIC SIGNALS, DETECTOR LOOPS, TEMPORARY RUMBLE STRIPS, AND TYPE C BIDIRECTIONAL REFLECTORS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)"

THIS WORK SHALL SUPPLIMENT AND BE IN ACCORDANCE WITH HIGHWAY STANDARD 701321.

THE CONTRACTOR SHALL PLACE MAX WIDTH SIGNS BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL.

REMOVE ALL CONFLICTING PAVEMENT MARKINGS.

PROPOSED GUARDRAIL SHALL CONSIST OF A TRAFFIC BARRIER TERMINAL TYPE 6 INSTALLED AT FINAL HEIGHT. INSTALL BARRICADES OR DRUMS AT ENDS.

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20 0 20 40

SCALE: 1" = 20'

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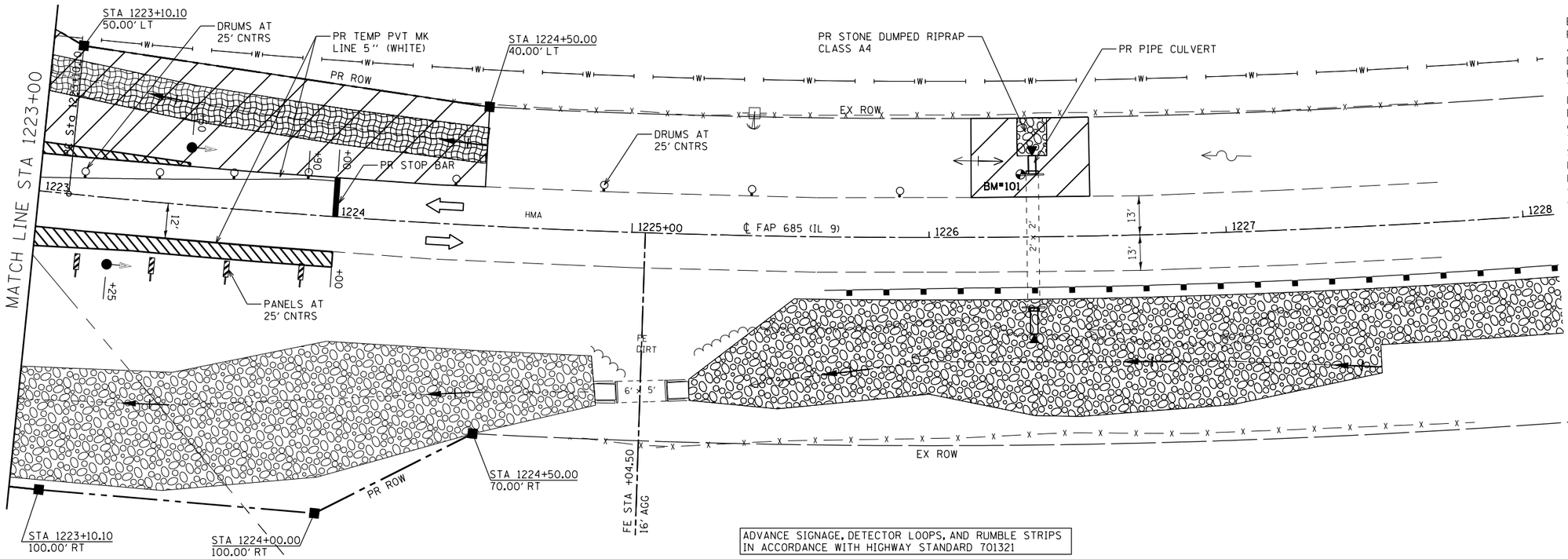
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION
STAGE 3

SCALE: 1"=20' | SHEET NO. 8 OF 12 SHEETS | STA. 1217+00.00 STA. 1223+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	25
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXIST. CURVE 517
PI STA. = 1227+00.00
Δ = 15° 32' 33" (LT)
D = 2° 00' 20"
R = 2,857.01'
T = 389.90'
L = 775.01'
E = 26.48'
e = 1.60%
T.R. = 116.13'
S.E. RUN = 123.87'
P.C. STA. = 1223+10.10
P.T. STA. = 1230+85.11
S.E. ATTAINED STA 1221+50.10 TO STA 1223+90.10
S.E. REMOVED STA 1230+05.10 TO STA 1232+45.10

ADVANCE SIGNAGE, DETECTOR LOOPS, AND RUMBLE STRIPS IN ACCORDANCE WITH HIGHWAY STANDARD 701321

LEGEND

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- DRUM WITH BI-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY TRAFFIC SIGNAL
- TEMPORARY IMPACT ATTENUATOR
- WORK ZONE
- HOT-MIX ASPHALT BASE COURSE (WIDENING)

STAGE CONSTRUCTION SEQUENCE

THE FOLLOWING STAGE CONSTRUCTION SEQUENCE IS FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PLANNING AND EXECUTING THIS PROJECT WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

STAGE 3:

SET UP STAGE 3 TRAFFIC CONTROL.

REMOVE NORTH HALF OF EXISTIG STRUCTURE NO. 034-0008. REMOVE EXISTING SHOULDER CONCRETE PRECAST UNITS. REMOVE EXISTING PAVEMENT FOR BRIDGE APPROACH PAVEMENT CONSTRUCTION.

CONSTRUCT NORTH SECTION OF NEW STRUCTURE NO. 034-0528. CONSTRUCT NORTH SECTION OF BRIDGE APPROACH PAVEMENT.

CONSTRUCT TEMPORARY HMA RAMPS TO BRIDGE APPROACH PAVEMENT. INSTALL TRAFFIC BARRIER TERMINAL TYPE 6 ONLY. USE BARRICADES OR DRUMS AT ENDS.

GRADE AND SHAPE PROPOSED DITCHES ALONG WESTBOUND LANES. UTILIZE TRAFFIC CONTROL AND PROTECTION STANDARD 701006 WHEN APPLICABLE.

GRADE AND SHAPE UPSTREAM CHANNEL.

REMOVE STAGE 3 TRAFFIC CONTROL.

GENERAL NOTES

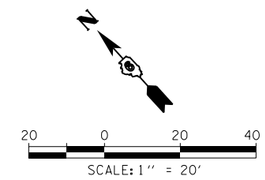
VERTICAL PANELS, DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, SIGNS, TRAFFIC SIGNALS, DETECTOR LOOPS, TEMPORARY RUMBLE STRIPS, AND TYPE C BIDIRECTIONAL REFLECTORS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)"

THIS WORK SHALL SUPPLIMENT AND BE IN ACCORDANCE WITH HIGHWAY STANDARD 701321.

THE CONTRACTOR SHALL PLACE MAX WIDTH SIGNS BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL.

REMOVE ALL CONFLICTING PAVEMENT MARKINGS.

PROPOSED GUARDRAIL SHALL CONSIST OF A TRAFFIC BARRIER TERMINAL TYPE 6 INSTALLED AT FINAL HEIGHT. INSTALL BARRICADES OR DRUMS AT ENDS.



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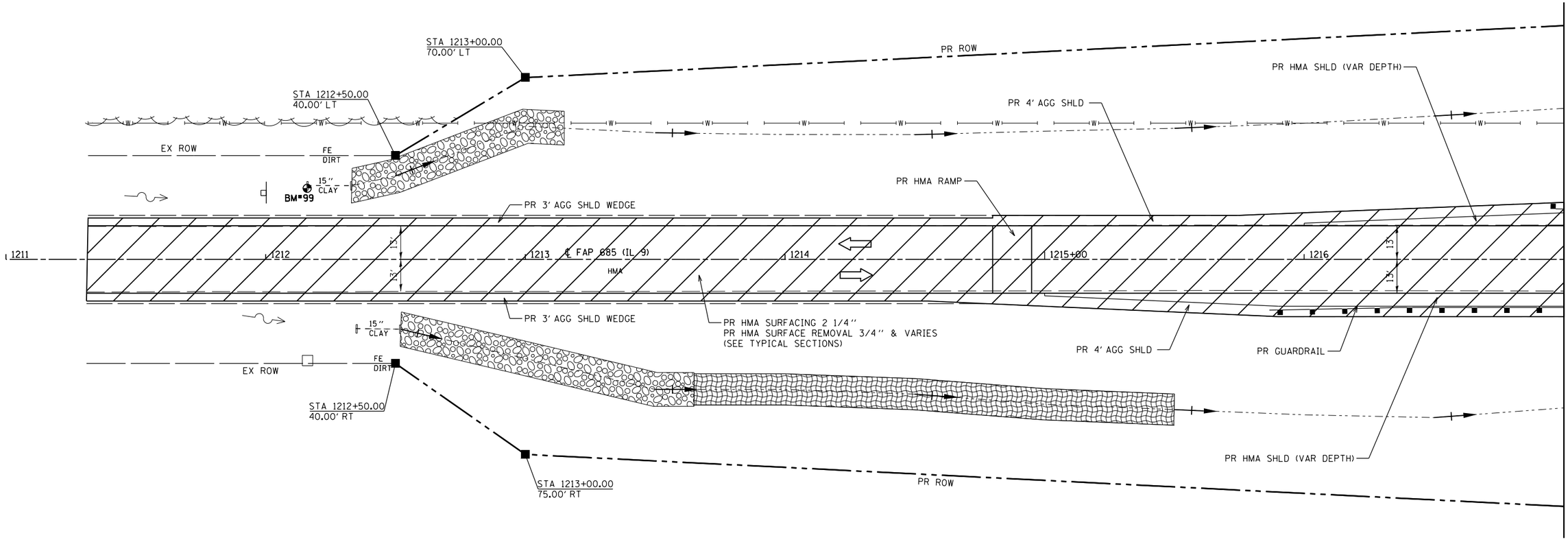
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION
STAGE 3

SCALE: 1"=20' | SHEET NO. 9 OF 12 SHEETS | STA. 1223+000 STA. 1228+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	26
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- DRUM WITH BI-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY TRAFFIC SIGNAL
- TEMPORARY IMPACT ATTENUATOR
- WORK ZONE
- HOT-MIX ASPHALT BASE COURSE (WIDENING)

STAGE CONSTRUCTION SEQUENCE

THE FOLLOWING STAGE CONSTRUCTION SEQUENCE IS FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PLANNING AND EXECUTING THIS PROJECT WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

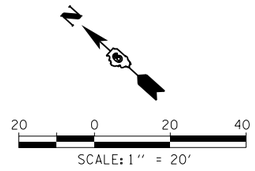
STAGE 4:

PERFORM HOT-MIX ASPHALT SURFACE REMOVAL, CONSTRUCT HOT-MIX ASPHALT LEVELING BINDER, BINDER COURSE, AND SURFACE COURSE. UTILIZE TRAFFIC CONTROL AND PROTECTION STANDARD 701306.

INSTALL PAVEMENT MARKINGS. CONSTRUCT REMAINING PROPOSED GUARDRAIL AND ASSOCIATED IMPROVEMENTS. CONSTRUCT AGGREGATE SHOULDERS. UTILIZE TRAFFIC CONTROL AND PROTECTION STANDARD 701326.

GENERAL NOTES

THE PLACEMENT OF HOT-MIX ASPHALT MATERIAL SHALL ALTERNATE BETWEEN LANES SUCH THAT THE MAXIMUM DIFFERENCE BETWEEN LANES IS 2". UNEVEN LANE SIGNS (WB-11) SHALL BE UTILIZED.



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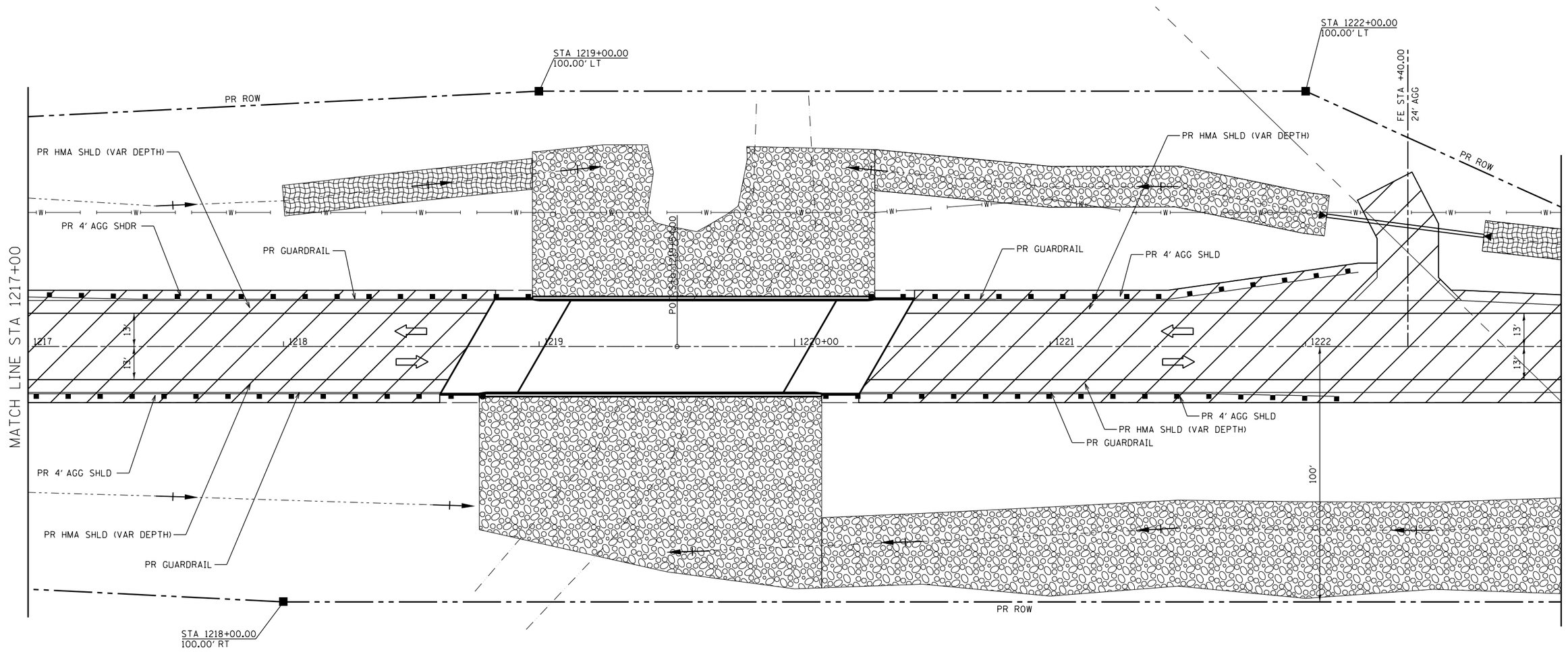
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION
STAGE 4

SCALE: 1"=20' | SHEET NO. 10OF 12 SHEETS | STA. 1211+000 STA. 1217+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	27
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- DRUM WITH BI-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY TRAFFIC SIGNAL
- TEMPORARY IMPACT ATTENUATOR
- WORK ZONE
- HOT-MIX ASPHALT BASE COURSE (WIDENING)

STAGE CONSTRUCTION SEQUENCE

THE FOLLOWING STAGE CONSTRUCTION SEQUENCE IS FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PLANNING AND EXECUTING THIS PROJECT WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

STAGE 4:

PERFORM HOT-MIX ASPHALT SURFACE REMOVAL, CONSTRUCT HOT-MIX ASPHALT LEVELING BINDER, BINDER COURSE, AND SURFACE COURSE. UTILIZE TRAFFIC CONTROL AND PROTECTION STANDARD 701306.

INSTALL PAVEMENT MARKINGS. CONSTRUCT REMAINING PROPOSED GUARDRAIL AND ASSOCIATED IMPROVEMENTS. CONSTRUCT AGGREGATE SHOULDERS. UTILIZE TRAFFIC CONTROL AND PROTECTION STANDARD 701326.

GENERAL NOTES

THE PLACEMENT OF HOT-MIX ASPHALT MATERIAL SHALL ALTERNATE BETWEEN LANES SUCH THAT THE MAXIMUM DIFFERENCE BETWEEN LANES IS 2". UNEVEN LANE SIGNS (WB-11) SHALL BE UTILIZED.

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SCALE: 1" = 20'

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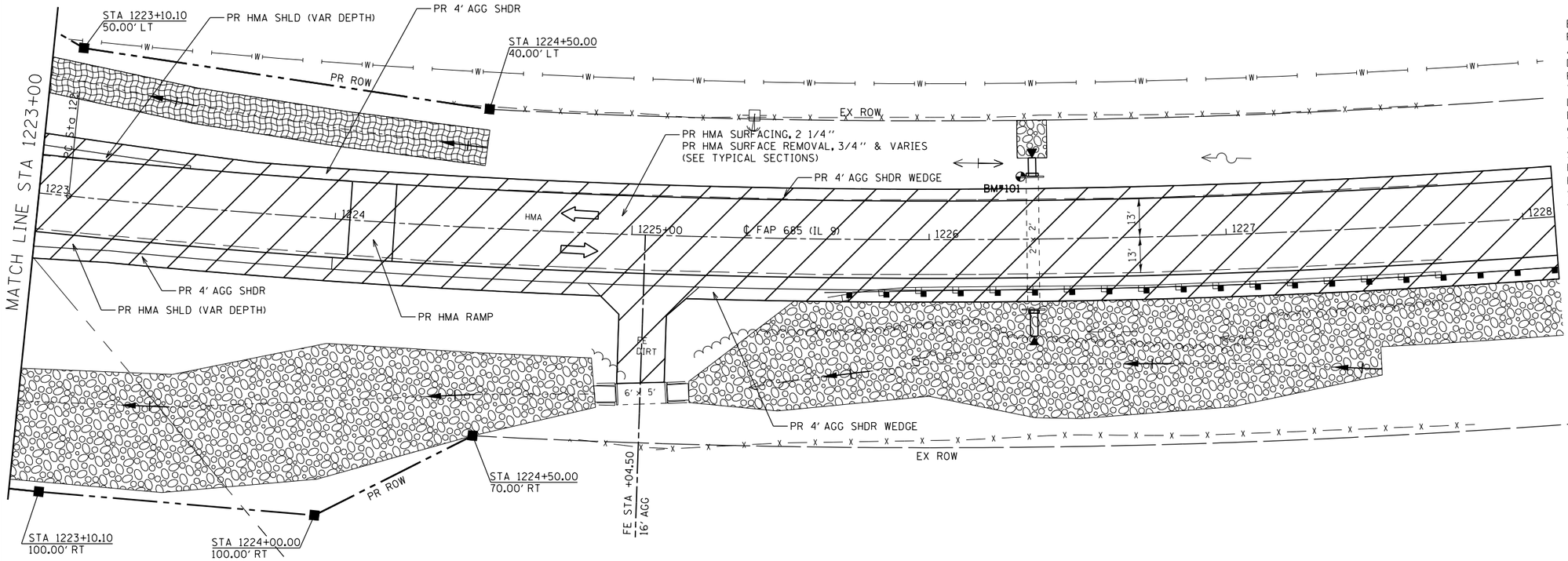
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION
STAGE 4

SCALE: 1"=20' | SHEET NO. 11 OF 12 SHEETS | STA. 1217+00.00 STA. 1223+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	28
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXIST. CURVE 517
PI STA. = 1227+00.00
Δ = 15° 32' 33" (LT)
D = 2° 00' 20"
R = 2,857.01'
T = 389.90'
L = 775.01'
E = 26.48'
e = 1.60%
T.R. = 116.13'
S.E. RUN = 123.87'
P.C. STA. = 1223+10.10
P.T. STA. = 1230+85.11
S.E. ATTAINED STA 1221+50.10 TO STA 1223+90.10
S.E. REMOVED STA 1230+05.10 TO STA 1232+45.10

LEGEND

- DIRECTION OF TRAFFIC
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- DRUM WITH BI-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY TRAFFIC SIGNAL
- TEMPORARY IMPACT ATTENUATOR
- WORK ZONE
- HOT-MIX ASPHALT BASE COURSE (WIDENING)

STAGE CONSTRUCTION SEQUENCE

THE FOLLOWING STAGE CONSTRUCTION SEQUENCE IS FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PLANNING AND EXECUTING THIS PROJECT WHICH SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

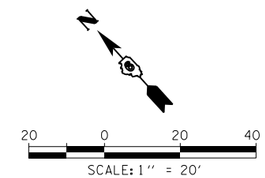
STAGE 4:

PERFORM HOT-MIX ASPHALT SURFACE REMOVAL, CONSTRUCT HOT-MIX ASPHALT LEVELING BINDER, BINDER COURSE, AND SURFACE COURSE. UTILIZE TRAFFIC CONTROL AND PROTECTION STANDARD 701306.

INSTALL PAVEMENT MARKINGS. CONSTRUCT REMAINING PROPOSED GUARDRAIL AND ASSOCIATED IMPROVEMENTS. CONSTRUCT AGGREGATE SHOULDERS. UTILIZE TRAFFIC CONTROL AND PROTECTION STANDARD 701326.

GENERAL NOTES

THE PLACEMENT OF HOT-MIX ASPHALT MATERIAL SHALL ALTERNATE BETWEEN LANES SUCH THAT THE MAXIMUM DIFFERENCE BETWEEN LANES IS 2". UNEVEN LANE SIGNS (WB-11) SHALL BE UTILIZED.



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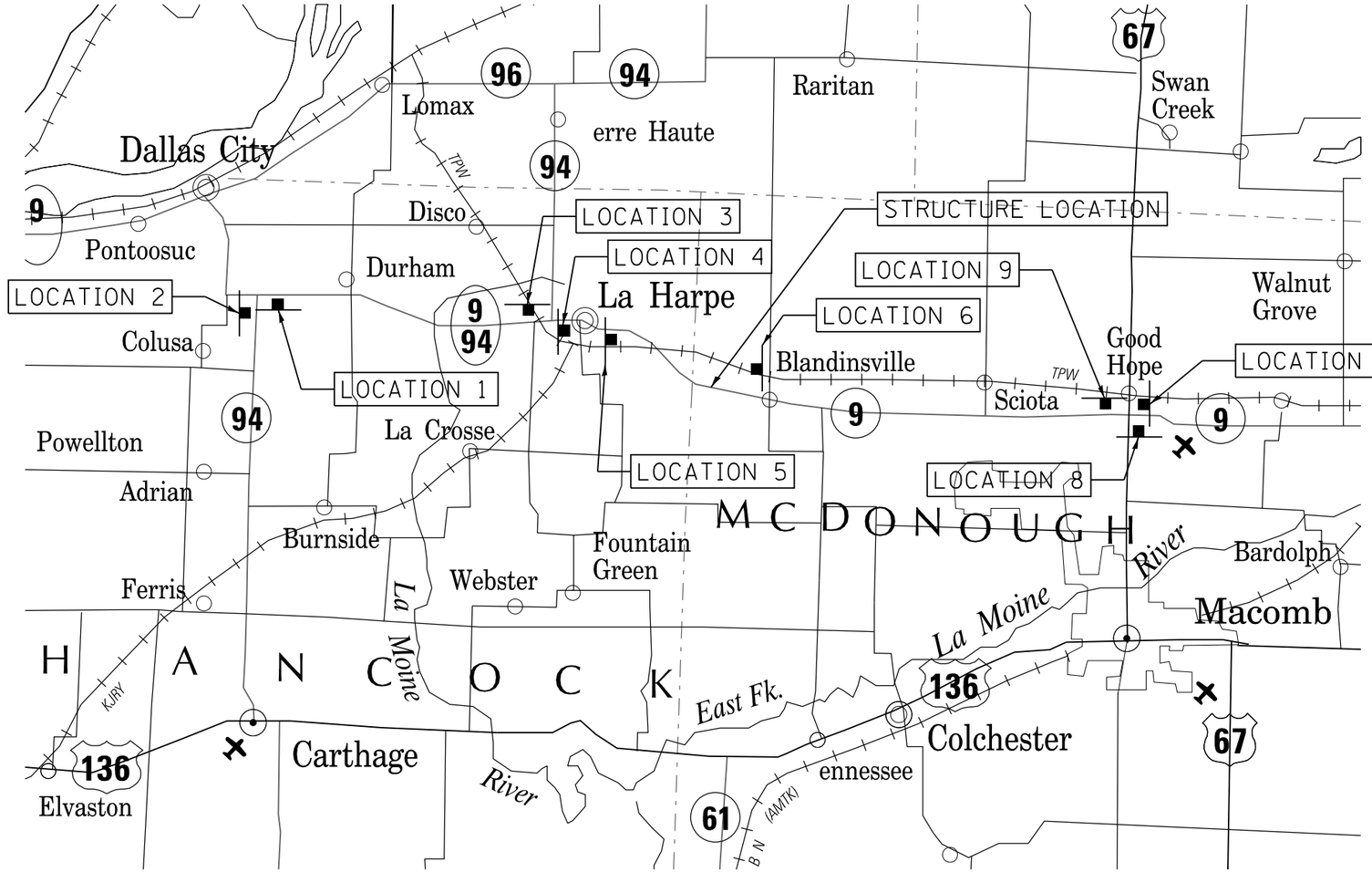
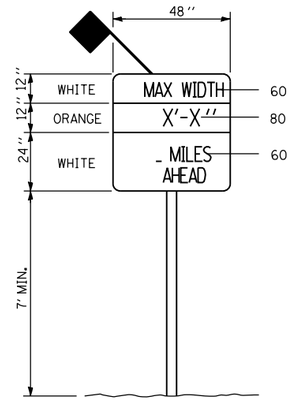
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION
STAGE 4

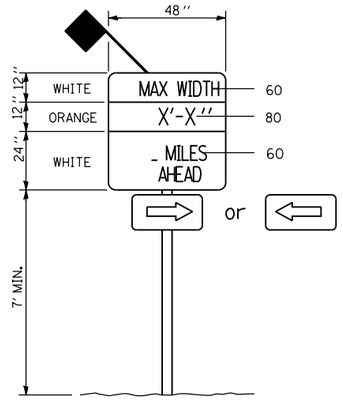
SCALE: 1"=20' | SHEET NO. 12 OF 12 SHEETS | STA. 1223+00 STA. 1228+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	29
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





SIGN A
(WIDTH RESTRICTION SIGN)



SIGN B
(WIDTH RESTRICTION SIGN)

LOCATION	SIGN	DISTANCE
1 IL 94 NB AT IL 9	B	12 MILES
2 IL 9 EB AT IL 94	A	12 MILES
3 IL 94 SB AT IL 9	B	3.8 MILES
4 IL 9 EB AT IL 94	A	3.8 MILES
5 IL 9 EB AT ECL LAHARPE	A	2.4 MILES
6 IL 9 WB AT WCL BLANDINSVILLE	A	2.6 MILES
7 IL 9 WB AT US 67	A	13 MILES
8 US 67 NB AT IL 9	B	13 MILES
9 US 67 SB AT IL 9	B	13 MILES

GENERAL NOTES:

ACTUAL MAXIMUM WIDTH ARE TO BE MEASURED BY THE ENGINEER AFTER TEMPORARY CONCRETE BARRIER WALL IS PLACED FOR STAGE 2. WIDTH SHALL BE REMEASURED AND SIGNS UPDATED FOR STAGE 3.

MAXIMUM WIDTH SIGNS SHALL BE PAID FOR AS ONE LUMP SUM ITEM AS "WIDTH RESTRICTION SIGNING".

ALL SIGNS SHALL BE POST MOUNTED IN ACCORDANCE WITH ARTICLE 701.14 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

N

20000 10000 0 20000
GRAPHIC SCALE (IN FEET)
SCALE: 1"=10,000'

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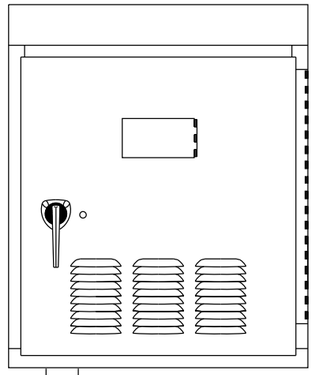
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION
MAXIMUM WIDTH SIGNING DETAIL

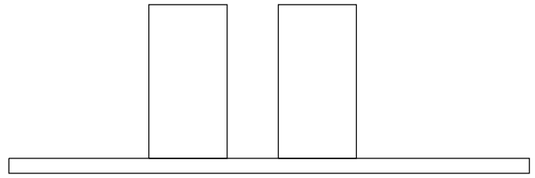
SCALE: 1"=10,000' | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	30
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



Temporary Controller Cabinet

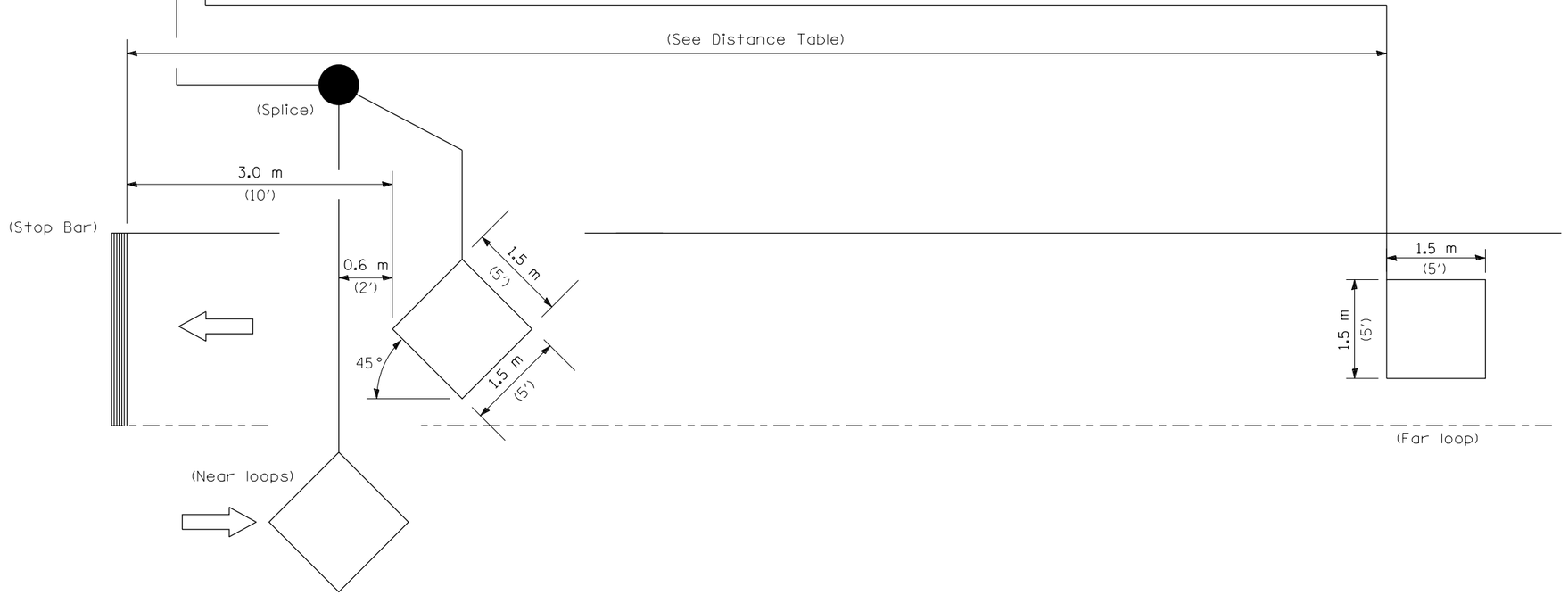
DETECTOR AMPLIFIER NOTES



AMP 1: DELAY = 8 SECONDS
DELAY SHALL BE INHIBITED DURING GREEN

AMP 2: NO DELAY

FAR LOOP DISTANCE TABLE	
ADVISORY SPEED (MPH)	DISTANCE FROM STOP BAR (FT.)
30 OR LESS	220
35	260
40	300
45	330
50	370
55	400



NOTE: All loops centered in lane.

INDUCTION LOOP DETECTOR

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION
TEMPORARY BRIDGE TRAFFIC SIGNAL LOOP PLACEMENT DETAIL

SCALE: none | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	31
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

A. EUGENE & BARBARA A. COX
PARCEL 6117104

PR STONE DUMPED RIPRAP
CLASS A4 (13.0'x86.0')

STA 1213+00.00
70.00' LT

PR ROW

STA 1212+50.00
40.00' LT

PR LIMITS OF CONSTRUCTION

+00.0
14.0' LT
(1' STUB)

PR HMA BSE CSE / WID 10"
PR HMA SHLD (VAR DEPTH)

W+00.0
18.0' LT

FE
DIRT

EX ROW

15"
CLAY

BM#99

15'
RAMP

PR 4' AGG SHLD

PR 4' AGG SHLD WEDGE

STA 1214+80.00

1211 | 1212 | 1213 ℄ FAP 685 (IL 9) | 1214 | 1215+00 | 1216

13'

HMA

13'

13'

5'

4'

MATCH LINE STA 1217+00

PR 4' AGG SHLD WEDGE

PR HMA SURFACING 2 1/4"
PR HMA SURFACE REMOVAL 3/4" & VARIES
(SEE TYPICAL SECTIONS)

+00.0
14.0' RT
(1' STUB)

PR 4' AGG SHLD

+90.0
18.0' RT

15"
CLAY

FE
DIRT

EX ROW

PR GUARDRAIL
(SEE SCHEDULE)
EX GUARDRAIL TBR

STA 1212+50.00
40.00' RT

PR EROSION CONTROL BLANKET
(12.0'x185.0')

PR LIMITS OF CONSTRUCTION

PR STONE DUMPED RIPRAP
CLASS A4 (13.0'x116.0')

PR HMA BSE CSE / WID 10"
PR HMA SHLD (VAR DEPTH)

STA 1213+00.00
75.00' RT

PR ROW

LONNE FRY
PARCEL 6117103

20 0 20 40
SCALE: 1" = 20'

BM#99 - SET CHSLD "□ " W END OF N CONC
HDWL CULVERT UNDER FE
STA 1212+16.00, 27.40' LT ELEV = 668.16

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
PROFILE CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

680
675
670
665
660
655
650
645
640

15' HMA RAMP
(SEE DETAIL)

VPC STA. 1215+04.00
ELEVATION 665.20

EX PROFILE GRADE

PR HMA SURFACING 2 1/4"
PR HMA SURFACE REMOVAL 3/4"

PR PROFILE GRADE

+0.10%

+0.85%

STA. 1212+33
EL = 665.50

STA. 1212+52
EL = 666.30

LT -11.19%

RT -8.98%

BEGIN PR PROFILE GRADE
VPI STA. 1214+95.00
ELEVATION 665.19

EX PROFILE GRADE

VPI STA. 1216+54.00
ELEVATION 665.35
LVC = 300'

LT -0.60%

RT -1.73%

RT -0.31%

STA. 1213+00
EL = 658.00

STA. 1213+50
EL = 657.50

STA. 1215+00
EL = 654.90

671.51 671.64 | 669.83 669.96 | 668.29 668.42 | 667.04 667.17 | 666.06 666.19 | 665.36 665.49 | 665.02 665.15 | 664.99 665.20 | 665.07 665.27 | 665.15 665.41 | 665.13 665.61 | 665.05 665.88

1211+00 | 1211+50 | 1212+00 | 1212+50 | 1213+00 | 1213+50 | 1214+00 | 1214+50 | 1215+00 | 1215+50 | 1216+00 | 1216+50 | 1217+00

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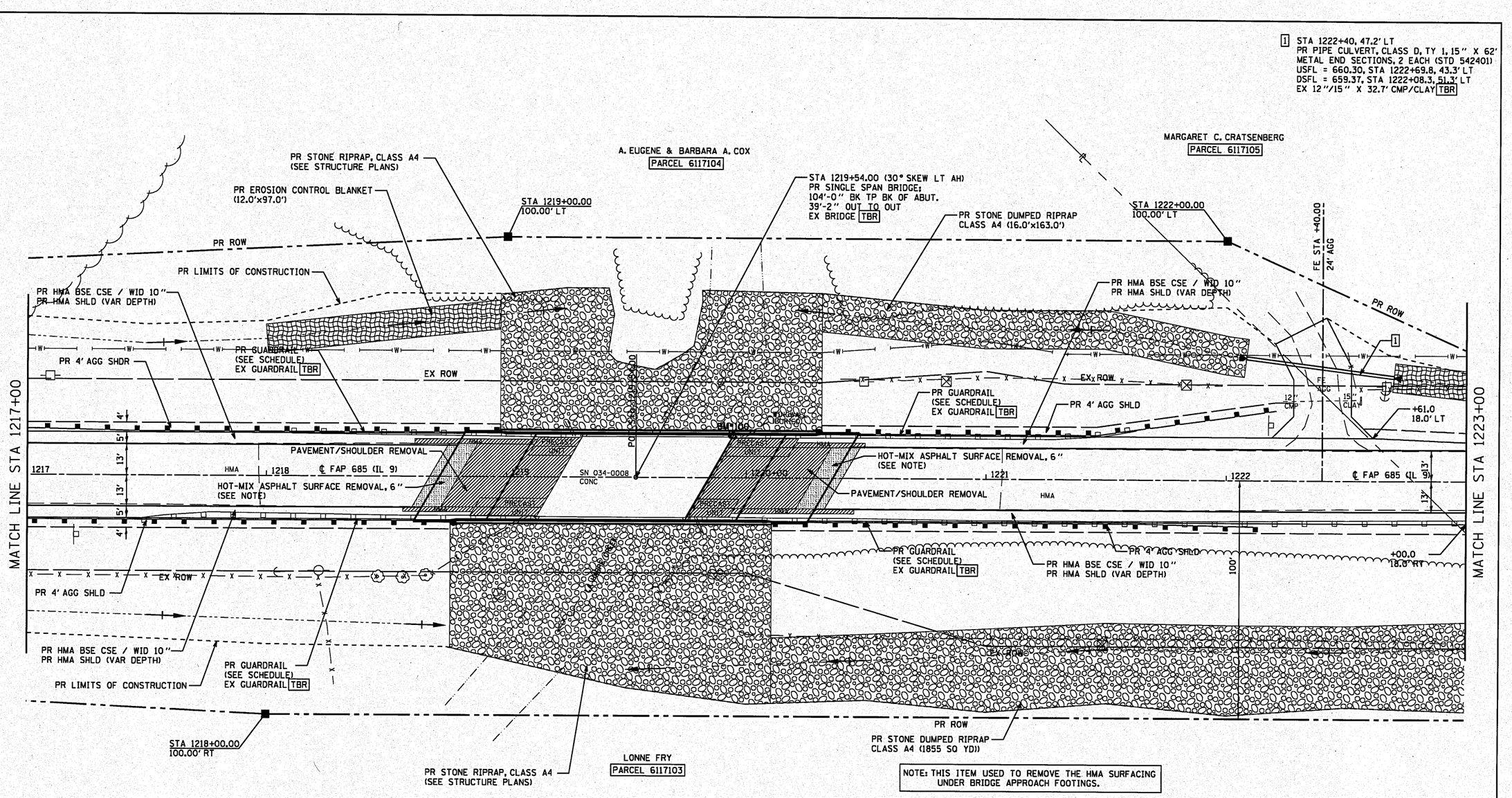
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE SHEET

SCALE: 1"=20' | SHEET NO. 1 OF 4 SHEETS | STA. 1211+00.00 STA. 1217+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	32
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

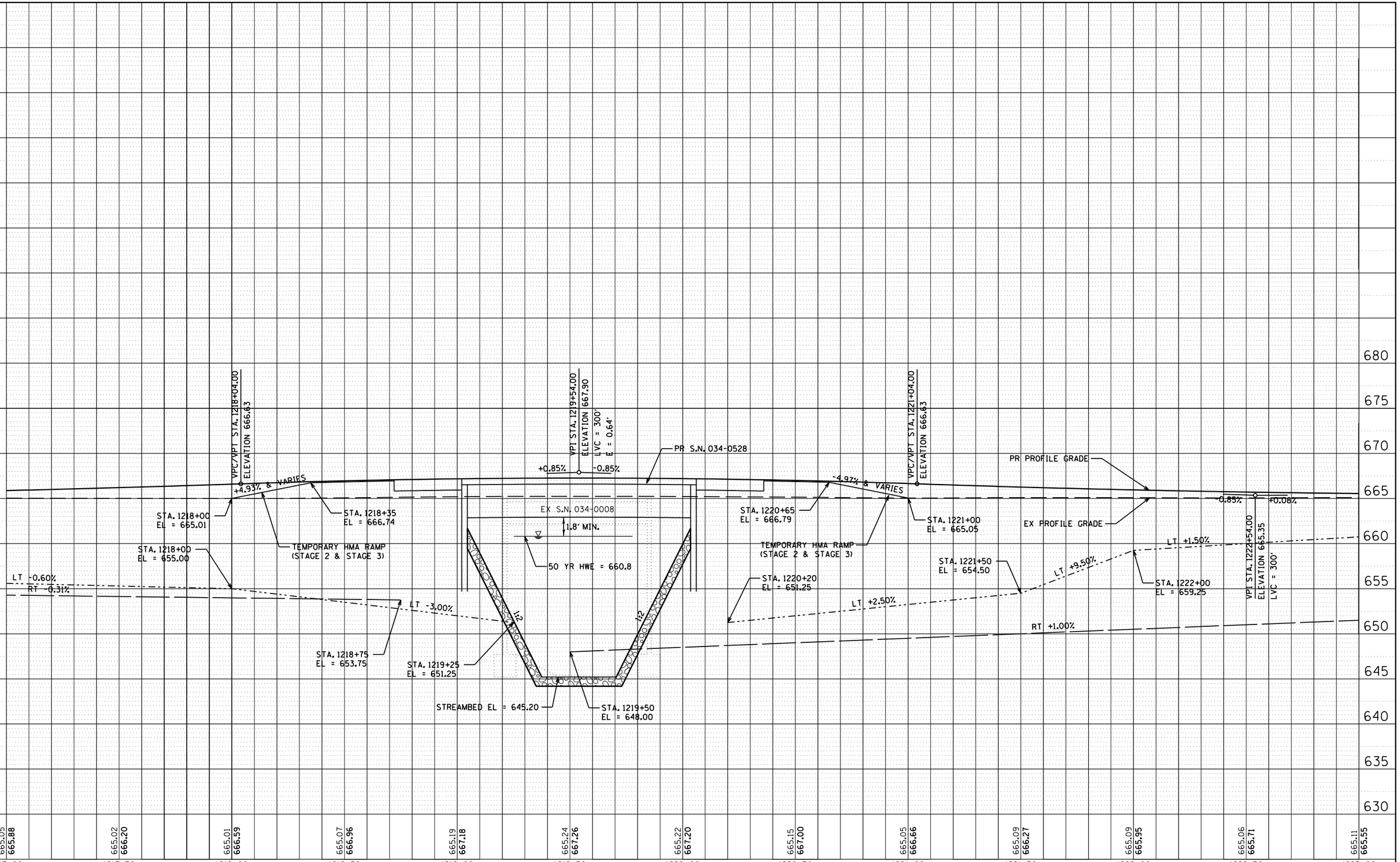
PLAN SHEET

SCALE: 1"=20' | SHEET NO. 2 OF 4 SHEETS | STA. 1217+00 STA. 1223+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	33
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN		BY	DATE
	SURVEYED		
	PLOTTED		
	ALIGNMENT CHECKED		
NOTE BOOK	RT. OF WAY CHECKED		
NO.	CADD FILE NAME		

PROFILE		BY	DATE
	SURVEYED		
	PLOTTED		
	GRADES CHECKED		
NOTE BOOK	B.M. NOTED		
NO.	STRUCTURE NOTATNS CHKD		



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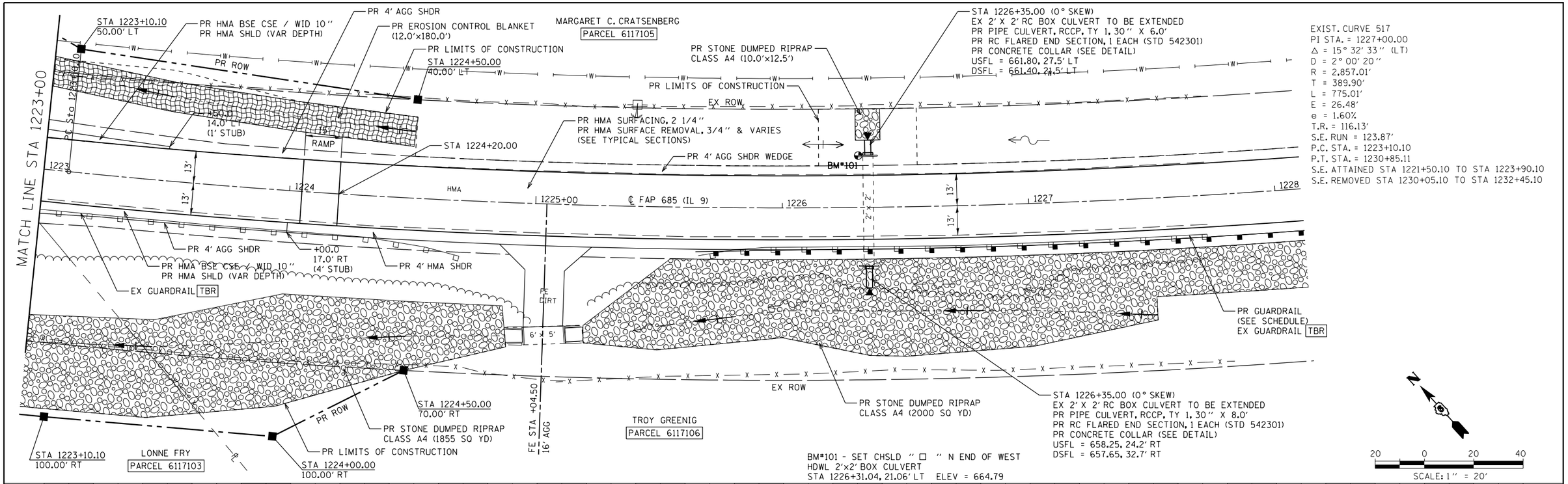
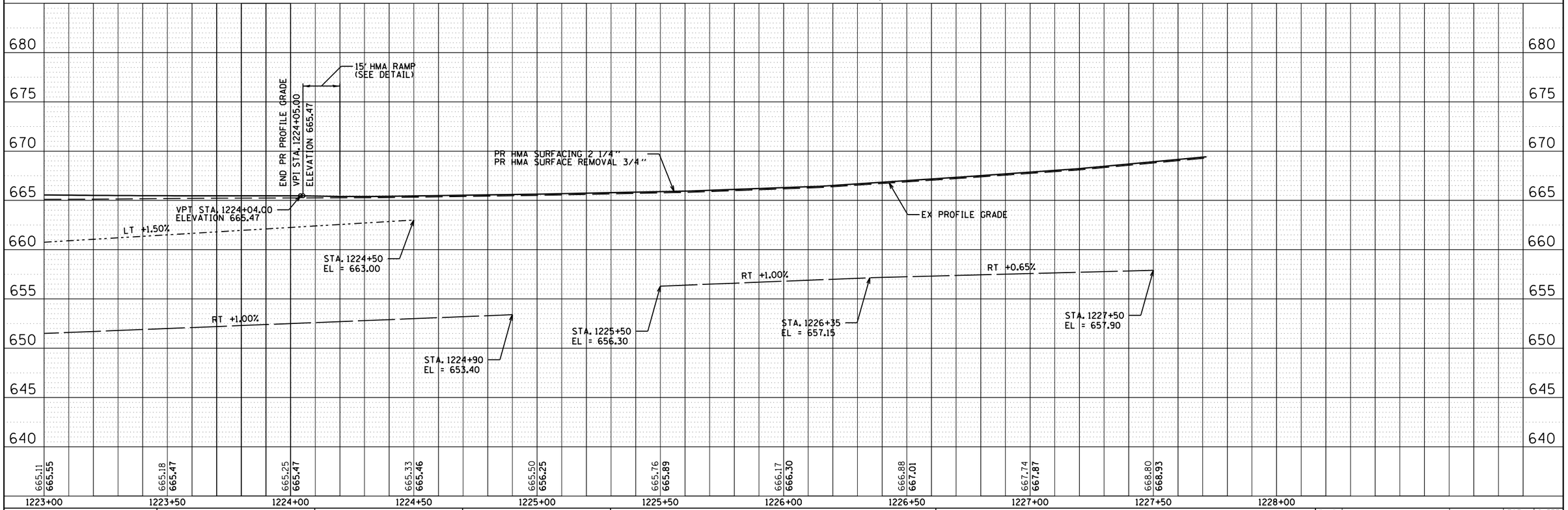
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROFILE SHEET

SCALE: 1"=20' | SHEET NO. 3 OF 4 SHEETS | STA. 1217+00 TO STA. 1223+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	34
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE SHEET

SCALE: 1''=20' | SHEET NO. 4 OF 4 SHEETS | STA. 1223+00 STA. 1228+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	35
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STORM WATER POLLUTION PREVENTION PLAN

Route: FAP 685 Marked: IL 9

Section: (117,118)RS-4,119RS-1; 118B-1 Project No.: NA

County: HANCOCK Contract No. 72B05

This plan has been prepared to comply with the provision of the NPDES Permit Number ILR10_____ issued by the Illinois Environmental Protection Agency for storm water discharges from construction site activities.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gathered and evaluated the information submitted. Based on my inquire of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted, is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Roger 2 Dirkes (Signature) November 3, 2010 (Date)

Region 4 Engineer (Title)

Note: The above boxed in area will be filled out by IDOT - Construction after the award of the contract to obtain the required NPDES permit.

The following plan was established and included in these plans to direct the Contractor in the placement of temporary erosion control systems and to provide a storm water pollution prevention plan for compliance under NPDES. The Contractor shall abide to all requirements within this plan as part of the contract.

The purpose of this plan is to prevent / minimize siltation within the construction zone and to eliminate sediments from entering and leaving the construction zone by utilizing proper temporary erosion control systems and providing ground cover within a reasonable time.

Certain items, as shown in this plan and referenced by the legend, shall be placed by the Contractor at the beginning of construction. Other items shall be placed by the Contractor as directed by the Engineer on a case by case situation resulting from the Contractor's sequence of activities, time of the year, and expected weather conditions.

The Contractor shall place permanent erosion control systems and seeding within a reasonable amount of time; therefore, reducing the amount of area being open to the possibility of erosion and reducing the amount of temporary erosion control systems and temporary seeding. The Resident Engineer will determine if temporary erosion control systems shown in the plan can be deleted, the size of the proposed ditch checks, the proper method of installation, and if any additional temporary erosion control systems shall be added which are not included in this plan. The Contractor shall perform all work as directed by the Engineer and as shown in special details and in Standard 280001 of the plans.

The special provisions Temporary Seeding, Temporary Erosion Control Seeding, and Temporary Erosion Control additionally supplement this plan.

All disturbed areas having high potential for erosion, as determined by the Engineer, shall be temporarily seeded or permanently seeded by October 1, and shall not be reopened until after the winter shutdown period.

SITE DESCRIPTION

Description of Construction Activity:

1. The proposed project consists of removing one single span bridge and replacing with a single span bridge along FAP 685 (IL 9) approximately 0.9 miles West of McDonough County Line in Hancock County, Illinois.
2. This contract involves resurfacing 3.3 miles of IL 9.
3. Miscellaneous work includes pavement removal, guardrail removal, pavement widening, hot-mix asphalt shoulders, aggregate shoulders, riprap, guardrail, pavement marking, traffic control, seeding, etc.

Description of Intended Sequence of Major Construction Activities Which Will Disturb Earth and Lead to Possible Erosion for Major Portions of the Construction Site:

1. Excavation will be completed to grade out for proposed roadway ditches and waterways, and to lower the existing ground elevation to meet the proposed roadway grade/vertical alignment.
2. Embankment will be completed in fill areas to raise the existing ground elevation to meet the proposed roadway grade/vertical alignment.
3. Drainage structures will be installed before and/or during the construction of the excavation and embankment to allow proper drainage across the proposed four lane facility.
4. Placement, maintenance, removal and proper clean-up of temporary erosion control, such as erosion control fence, ditch checks, sediment basins, temporary seeding, etc.
5. Placement of permanent erosion control, such as riprap ditch lining, riprap stilling basins, riprap dry dams, excelsior blanket, seeding, etc.
6. Final grading, paving and other miscellaneous items.
7. Stage construction of the above items will be required to maintain traffic as discussed previously herein.

Area of Construction Site:

The total drainage area entering and including the construction site is estimated to be 12000 acres (18.9 square miles) in which 4.8 acres will be disturbed by excavation, grading or other activities.

Other Reports, Studies and Plans which Aid in the Development of this Storm Water Pollution Prevention Plan as Referenced Documents:

1. Estimated run-off coefficients are contained in the project drainage study which were utilized for proposed placement of the temporary erosion control systems.*
2. Information on the soils within the site was obtained from field reviews which were utilized for proposed placement of the temporary erosion control systems.*
3. Site maps indicating drainage patterns and approximate slopes were contained in the project design report, USGS drainage maps, project drainage study, and project plan documents were all utilized for proposed placement of the temporary erosion control systems.

Drainage Tributaries Receiving Water from this Construction Site:

1. LaHarpe Creek

FILE NAME = P:\89f:les\890844\Work Order 1\IL 9 ove	USER NAME = sUSERs	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STORM WATER POLLUTION PREVENTION NOTES	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	LaHarpe Creek\CADD Sheets\DG72B05-sht-EC4.dgn	DRAWN -	REVISED -			685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	36
	PLOT SCALE = 183.1935 ' / IN.	CHECKED -	REVISED -					CONTRACT NO. 72B05		
	PLOT DATE = 11/1/2010	DATE -	REVISED -		SCALE: none SHEET NO. 1 OF 4 SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROLS

Description of Stabilization Practices at the Beginning of Construction:

1. The area between the existing and proposed right-of-way/temporary easement boundaries and limits of the project will be improved and managed for the purposes of controlling erosion within the area, reducing water flow by temporary diversion and minimizing siltation into the construction zone, and establishing vegetative cover which will become permanent vegetation and act as an erosion barrier. Work at the beginning of construction will consist of the following:

   (a) Areas of existing vegetation (woods and grasslands) outside the proposed construction slope limits shall be identified for preserving and shall be protected from mowing, brush cutting, tree removal and other activities which would be detrimental to their maintenance and development.

   (b) Dead, diseased, or unsuitable vegetation within the site shall be removed as directed by the Engineer, along with required tree removal.

   (c) As soon as reasonable access is available (such as trees cleared) to all locations where water drains away from the project, sediment basins, riprap ditch checks, temporary ditch checks, and/or erosion control fence shall be installed as called out in this plan and directed by the Engineer.

   (d) Bare and sparsely vegetated ground in highly erodable areas as determined by the Engineer shall be temporarily seeded at the beginning of construction where no construction activities are immediately expected as stated in the special provision "Temporary Erosion Control Seeding".

   (e) Immediately after tree removal is completed in certain areas which are highly erodable areas as determined by the Engineer, the areas shall be temporarily seeded where no construction activities are immediately expected as stated in the special provision •Temporary Erosion Control Seeding•.

   (f) At locations where a significant amount of water drains into the construction zone from outside areas (adjacent landowners), erosion control fence, temporary ditch checks, or riprap ditch checks will be utilized to locally divert water, reduce flow rates, and collect outside siltation inside the right-of-way line. Erosion control items will not be allowed to be installed to cause flooding to upstream private property which could cause crop damages or other undesirable conditions.

2. Establishment of these temporary erosion control measures will have additional benefits to the project. Desirable grass seed will become established in these areas and will spread seeds onto the construction site until permanent seeding/mowing and overseeding can be complete.

3. A third benefit of these filter areas is that they will begin to provide a screen and buffer. They will help protect the construction site from winds and excess sun and mitigate construction noise and dust.

Description of Stabilization Practices During Construction:

1. During roadway construction, areas outside the construction slope limits as outlined previously herein shall be protected from damaging effects of construction. The Contractor shall not use this area for staging (except as designated on the plans or directed by the Engineer), parking of vehicles or construction equipment, storage of materials, or other construction related activities.
   (a) Within the construction zone, critical areas which have high flows of water as determined by the Engineer shall remain undisturbed until full scale construction is underway to prevent unnecessary soil erosion.
   (b) Top soil and earth stockpiles shall be temporarily seeded if they are to remain unused for more than fourteen days.
   (c) As the Contractor constructs a portion of roadway in a fill section, he/she shall follow the following steps as directed by the Engineer:

   i. Place temporary erosion control systems at locations where water leaves and enters the construction zone
   ii. Temporarily seed highly erodable areas outside the construction slope limits
   iii. Construct roadside ditches and provide temporary erosion control systems
   iv. TemporarILy divert water around proposed culvert locations
   v. Build necessary embankment at culvert locations and then excavate and place culvert
   vi. Continue building up the embankment to the proposed grade while at the same time place permanent erosion control such as riprap ditch lining and conduct final shaping to the slopes

   (d) The Contractor shall immediately follow major earth moving operations with final grading equipment. After the major earth spread operation has moved to a new location, final grading shall be completed within fourteen days. If grading is not completed within fourteen days, all major earth moving operations will be stopped, as directed by the Engineer, until disturbed areas are final graded and seeded.

   (e) Excavated areas and embankments shall be permanently seeded when final graded. If not, they shall be temporarily seeded as stated in the special provision "Temporary Erosion Control Seeding".

   (f) Construction equipment shall be stored and fueled only at designated locations. All necessary measures shall be taken to contain any fuel or pollution run-off in compliance with EPA water quality regulations. Leaking equipment or supplies shall be immediately repaired or removed from the site.

   (g) The Resident Engineer shall inspect the project daily during activities and weekly or after large rains during the winter shutdown period. The project shall additionally be inspected by the Construction Field Engineer on a bi-weekly basis to determine that erosion control efforts are in place and effective and if other control work is necessary.

   (h) Sediment collected during construction by the various temporary erosion control systems shall be disposed of on the site on a regular basis as directed by the Engineer. The cost of this maintenance will be paid for in accordance with Article 109.04 of the Standard Specifications.

   (i) The temporary erosion control systems shall be removed as directed by the Engineer after use is no longer needed or no longer functioning. The costs of this removal shall be included in the unit bid price for the temporary erosion control system. No additional compensation will be allowed.

Description of Structural Practices After Final Grading:

1. Temporary erosion control systems shall be left in place with proper maintenance until permanent erosion control is in place and working properly and all proposed turf areas seeded and established with a proper stand.

2. Once permanent erosion control systems as proposed in the plans are functional and established, temporary items shall be removed, cleaned up, and disturbed turf reseeded. Temporary riprap ditch checks will be allowed to remain in place where approved by the Engineer.

Maintenance after Construction:

1. Construction is complete after acceptance is received at the final inspection.

2. Areas will be inspected on a regular basis by IDOT District 6 Bureau of Operations.

3. Maintenance crews will perform regular mowings to aid in keeping weeds down and establishing a good roadside seed stand.

4. Maintenance crews will also aid in any ditch lining maintenance or in any drainage problems.

5. All maintenance will be conducted at times when weather conditions will not cause site damage.

DOCUMENTATION

1. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, date(s) of the inspection, major observations relating to the implementation of this storm water pollution prevention plan, and actions taken in accordance with Section 4.b. shall be made and retained as part of the plan for at least three years after the date of inspection. The report shall be signed in accordance with part VI.G of the general permit.

2. If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Resident Engineer or Resident Technician shall complete and file an "Incident of Noncompliance (ION)" report for the identified violation. The Resident Engineer or Resident Technician shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of noncompliance shall be signed by a responsible authority in accordance with Part VI.G. of the general permit. The report of noncompliance shall be mailed to the following address:

   Illinois Environmental Protection Agency
   Division of Water Pollution Control
   2200 Churchill Road, P.O. Box 19276
   Springfield, IL 62794-9276
   Attn: Compliance Assurance Section

FILE NAME = c:\pw_work\pwidot\laughlinrl\d0244977\D672B05-sht-ECNotes-2.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STORM WATER POLLUTION PREVENTION NOTES	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0002 ' / in.	DRAWN -	REVISED -			685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	37
	PLOT DATE = Nov-03-2010 11:34:49AM	CHECKED -	REVISED -		SCALE: none / SHEET NO. 2 OF 4 SHEETS / STA. / TO STA.			CONTRACT NO. 72B05		
		DATE -	REVISED -			FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACTOR CERTIFICATION STATEMENT

This certification statement is part of the Storm Water Pollution Plan for the project described below in accordance with NPDES Permit No. ILR10 _____, issued by the Illinois Environmental Protection Agency on _____.

Route: FAP 685 Marked: IL 9

Section: (117,118)RS-4,119RS-1; 118B-1 Project No.: NA

County: Hancock Contract # 72B05

I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

Signature _____ Date _____

Title _____

Name of Firm _____

Street Address _____

City, State, Zip _____

Phone Number _____

Note: The above boxed in area shall be filled out by the Contractor after the award of the contract to obtain the required NPDES Permit from IEPA. This is a requirement for this contract.

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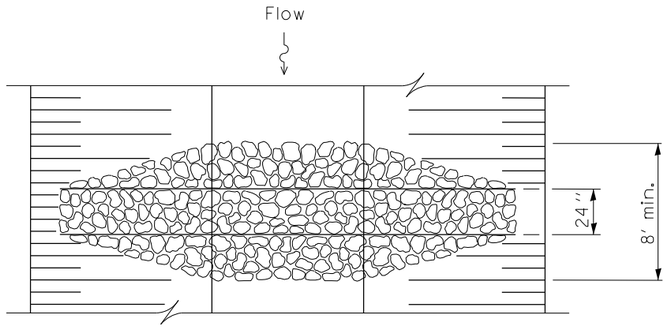
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

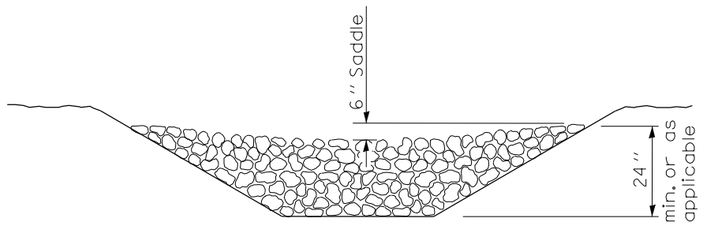
STORM WATER POLLUTION PREVENTION NOTES

SCALE: none | SHEET NO. 3 OF 4 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	38
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN VIEW

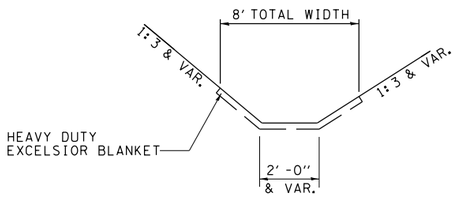


ELEVATION

TEMPORARY AGGREGATE DITCH CHECKS

(TYPICAL)

SEE STANDARD 280001 FOR EROSION CONTROL DETAILS NOT SHOWN.



HEAVY DUTY EXCELSIOR BLANKET LIMITS

(TYPICAL)

LEGEND

(FOR THE STORM WATER POLLUTION PREVENTION PLAN SHEETS)

ITEM	SYMBOL
TEMPORARY DITCH CHECKS, AGGREGATE (STD 280001) [AGGREGATE (EROSION CONTROL), 3.0 TONS PER EACH]	T
INLET AND PIPE PROTECTION (STD 280001) [HAY BALES NOT ALLOWED]	
PERIMETER EROSION BARRIER	
EARTH EXCAVATION FOR EROSION CONTROL (SEDIMENT BASINS)	
PRESERVE EXISTING TREES, WOODLANDS, AND UNDERSTORY (OUTSIDE CONSTRUCTION LIMITS)	
ITEM PLACED AT BEGINNING OF CONSTRUCTION (Requirement)	* ITEM *
ITEM PLACED AS DIRECTED BY ENGINEER (When required by situation)	ITEM
DIRECTION OF OVERLAND FLOW	
HEAVY DUTY EROSION CONTROL BLANKET	
ITEM PLACED DURING STAGE 1 CONSTRUCTION	(1)

GENERAL NOTES:

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

Mulch shall be method 2, unless otherwise noted.

Aggregate ditch checks shall be paid for as "AGGREGATE (EROSION CONTROL)".

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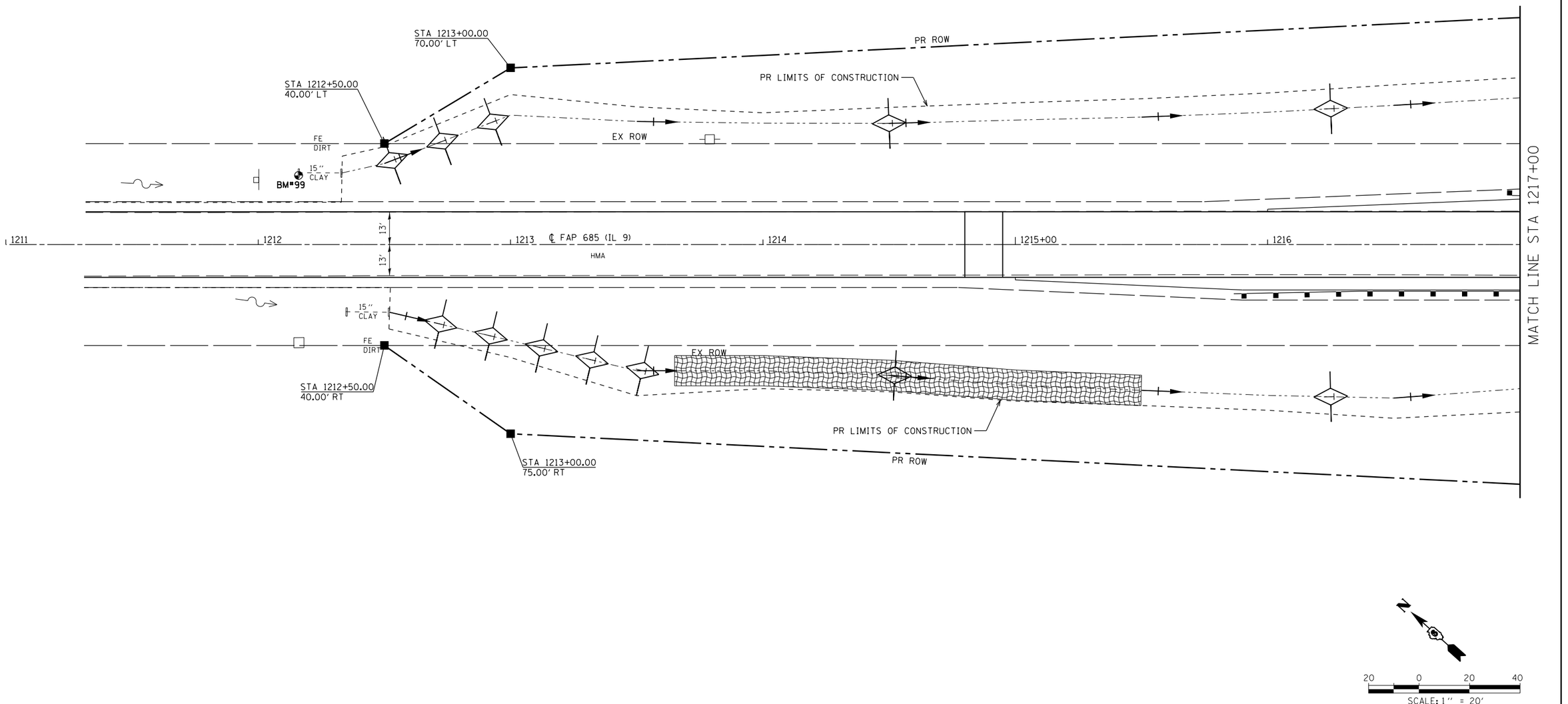
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION LEGEND

SCALE: none | SHEET NO. 4 OF 4 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	39
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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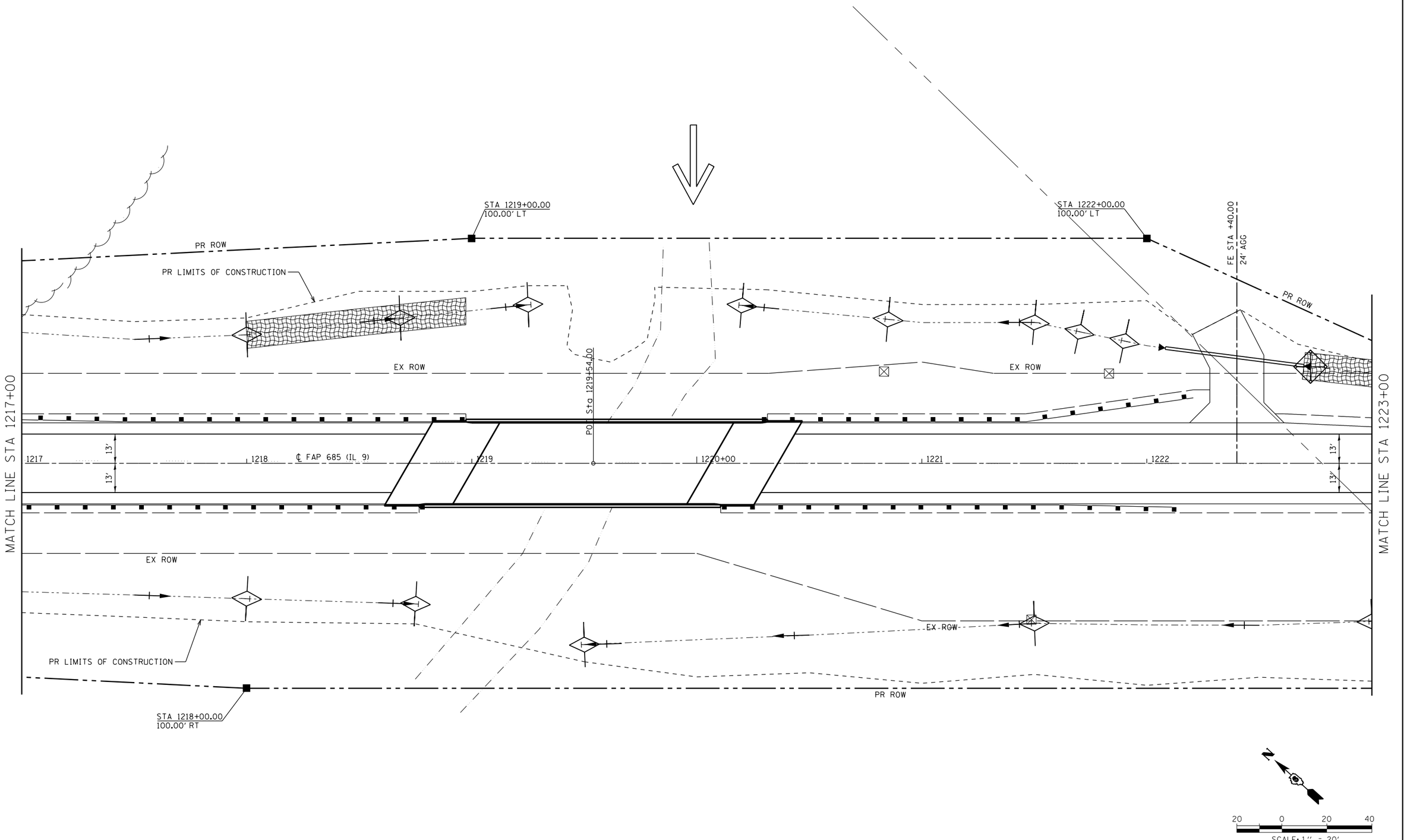
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

SCALE: 1"=20' | SHEET NO. 1 OF 3 SHEETS | STA. 1211+00 TO STA. 1217+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	40
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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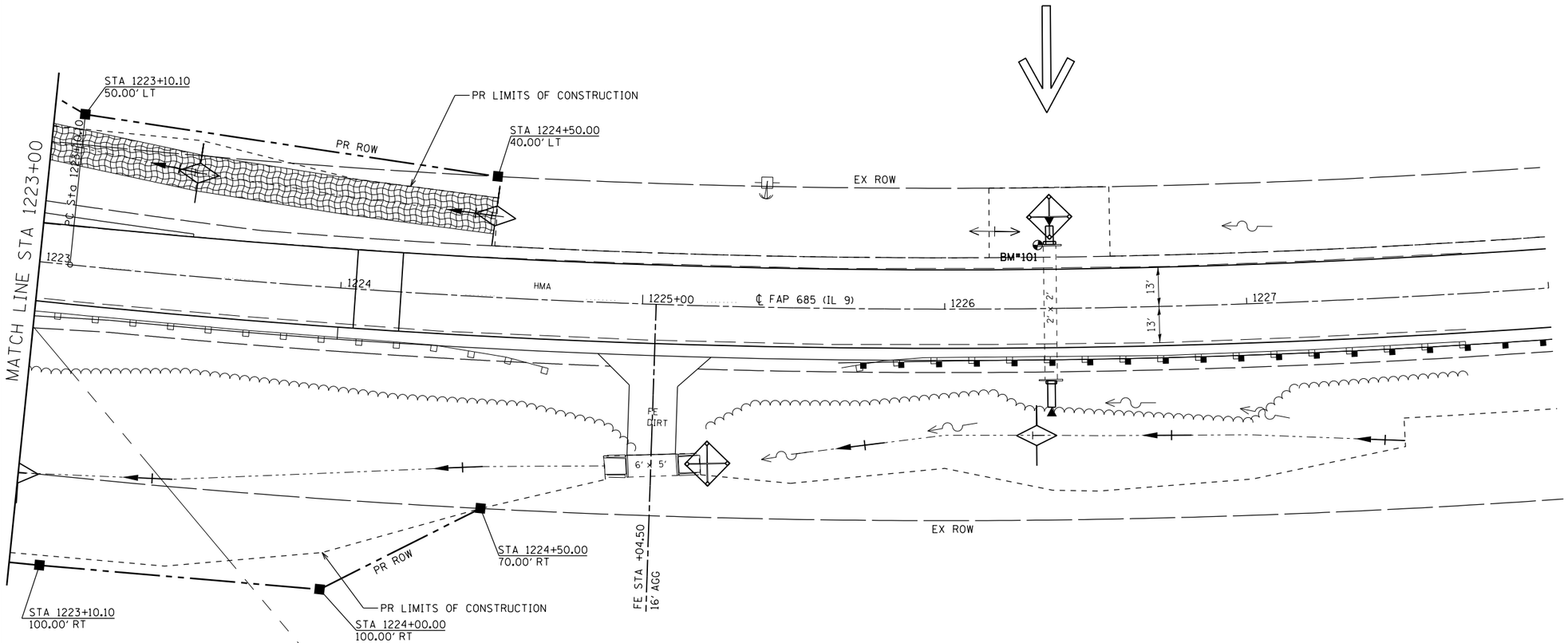
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

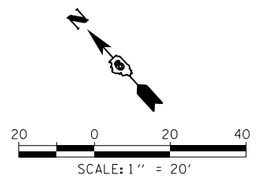
STORM WATER POLLUTION PREVENTION PLAN

SCALE: 1"=20' | SHEET NO. 2 OF 3 SHEETS | STA. 1217+00 TO STA. 1223+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	41
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. CURVE 517
PI STA. = 1227+00.00
Δ = 15° 32′ 33″ (LT)
D = 2° 00′ 20″
R = 2,857.01′
T = 389.90′
L = 775.01′
E = 26.48′
e = 1.60%
T.R. = 116.13′
S.E. RUN = 123.87′
P.C. STA. = 1223+10.10
P.T. STA. = 1230+85.11
S.E. ATTAINED STA 1221+50.10 TO STA 1223+90.10
S.E. REMOVED STA 1230+05.10 TO STA 1232+45.10





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

SCALE: 1″=20′ | SHEET NO. 3 OF 3 SHEETS | STA. 1223+00.00 STA. 1228+00

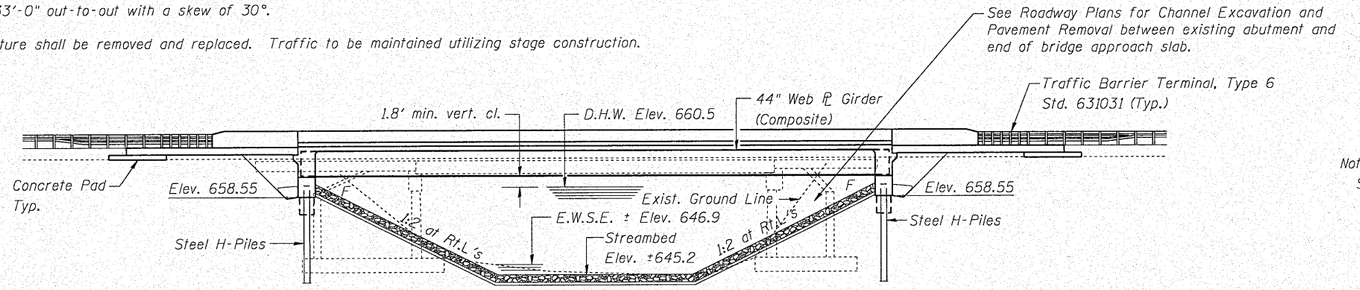
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	42
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Benchmark: Railroad spike in top of Southeast Abutment, Sta. 1219+93.84, 17.89' Lt., NAVD88 Elev. 662.17.

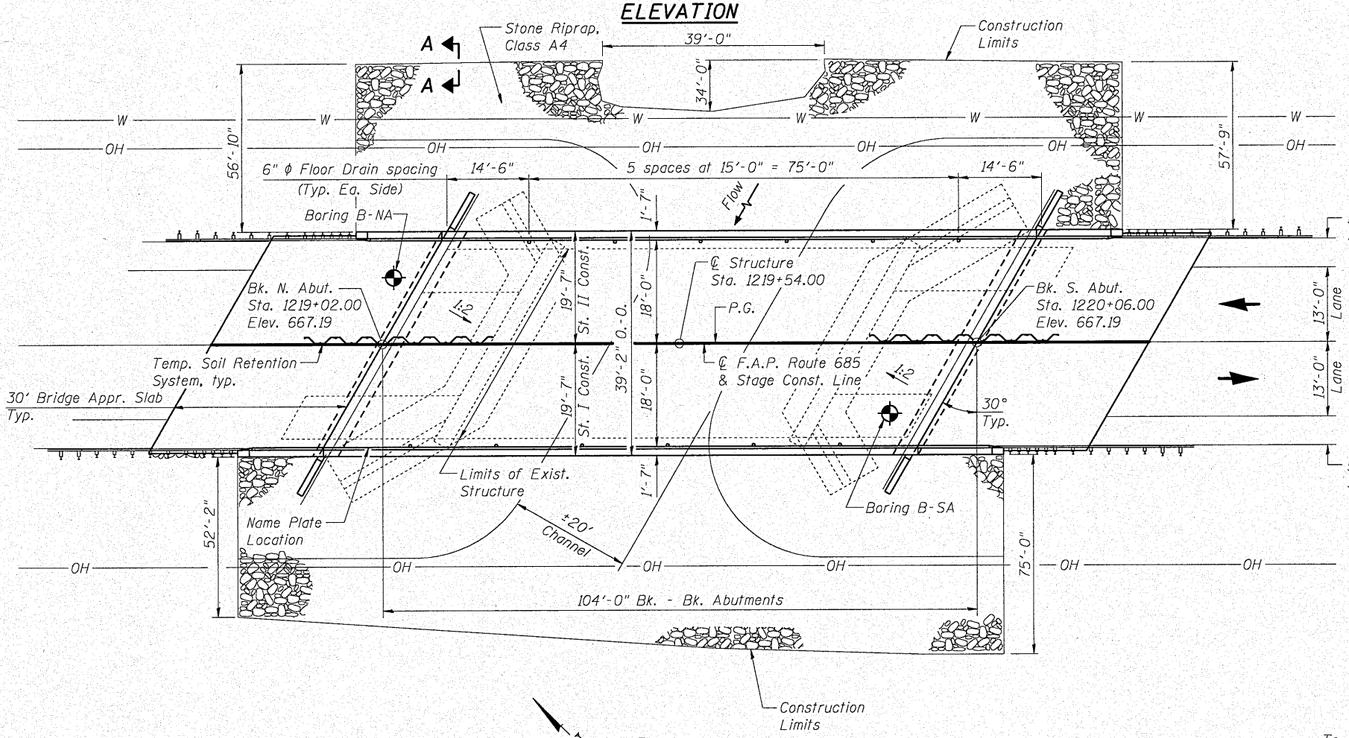
Existing Structure: S.N. 034-0008 was originally built in 1928 as SBI Rte. 95 Section 118-B at Station 1219+54. In 1971 the existing superstructure was removed and replaced with PPC deck beams under FA Rte. 82, Section 118BR. In 1994 the existing hot-mix asphalt surface was removed and replaced with hot-mix asphalt surfacing and waterproofing under FA Rte 685, Section 118BR-1. In 2002 the hot-mix asphalt surface was removed and replaced with a 5" reinforced concrete wearing surface under FAP Rte. 685, Section 118BR. The superstructure consists of eleven 27"x36" PPC deck beams on closed concrete abutments and footings with timber piles. The structure is 63'-5½" back-to-back of abutments and the width is 33'-0" out-to-out with a skew of 30°.

The existing structure shall be removed and replaced. Traffic to be maintained utilizing stage construction.

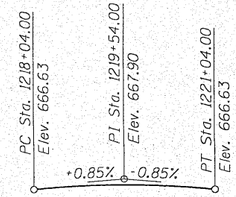
No Salvage.



ELEVATION



PLAN



PROFILE GRADE
(along ℄ roadway IL Rte. 9)

Note:
See sheet 2 of 23 for Section A-A.

UTILITY LEGEND

OH = Overhead Electric
W = Water Line

INDEX OF SHEETS

LOADING HL-93

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

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications with 2008 & 2009 Interims

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
f_y = 60,000 psi (Reinforcement)
f_y = 50,000 psi (Structural Steel) M270 Gr. 50W

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.105g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.154g
Soil Site Class = D

APPROVED
For Structural Adequacy Only

Ralph E. Anderson (RED)
Engineer of Bridges & Structures

STATE OF ILLINOIS
ALAN D. LUKENS
081-005167
QUINCY, ILLINOIS
LICENSED STRUCTURAL ENGINEER

10-28-10
Alan D. Lukens — Date
Licensed Structural Engineer
State of Illinois No. 081-005167
License Expires 11/30/12

WATERWAY INFORMATION

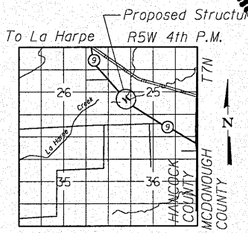
Drainage Area = 19.23 mi.² Prop. Low Grade Elev. 667.17 @ Sta. 1218+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	2,315	733	828	659.0	0.5	0.0	659.6	659.0
Design	50	3,563	820	957	660.5	1.1	0.3	661.6	660.8
Base	100	4,128	851	1,005	661.0	1.3	0.4	662.3	661.4
Overtopping									
Max. Calc.	500	5,474	912	1,093	662.0	1.0	0.4	663.0	662.4

10 Year Velocity through Proposed Bridge = 2.86 fps

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	N. Abut.	S. Abut.
	658.55	658.55



LOCATION SKETCH

GENERAL PLAN & ELEVATION
IL 9 OVER LAHARPE CREEK
FAP ROUTE 685 SECTION 118B-1
HANCOCK COUNTY
STATION 1219+54.00
S.N. 034-0528

KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
616 North 24th Street, Quincy, IL — Ph. (217) 223-3678 - Fax (217) 223-3383
4518 Paris Gravel Road, Hannibal, MO — Ph. (573) 221-8928 - Fax (573) 221-0812
611 N. 4th Street, Suite 108, Burlington, IA — Ph. (319) 752-1636 - Fax (319) 752-3585
115 North Prairie Street, Galesburg, IL — Ph. (309) 342-4942 - Fax (309) 341-3781
Internet Address: www.klingner.com
STATE OF ILLINOIS DESIGN FIRM # 1842738

FILE NAME =	USER NAME =	DESIGNED RJP	REVISED -
		CHECKED ADL	REVISED -
	PLOT SCALE =	DRAWN RJP	REVISED -
	PLOT DATE =	CHECKED ADL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 034-0528
SHEET NO. 1 OF 23 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	43
		CONTRACT NO. 72B05		
	ILLINOIS FED. AID PROJECT			

Klingner & Associates P.C.

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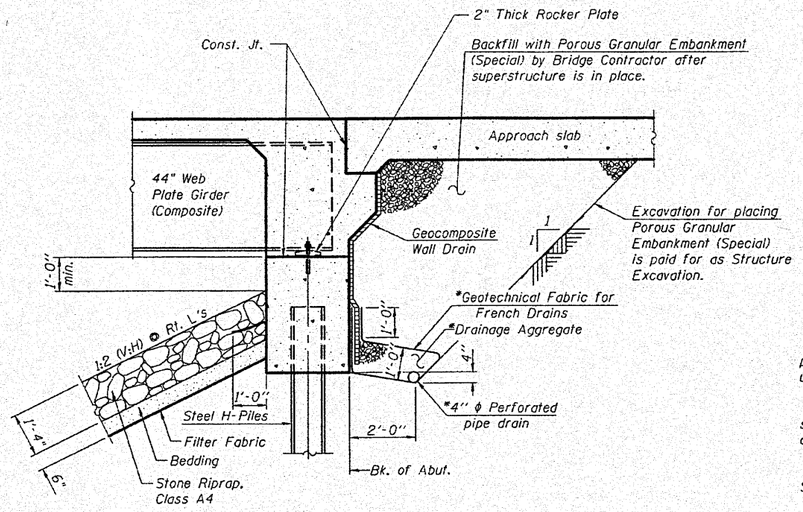
P:\09files\090044\Work Order 1 (IL 9 over LaHarpe Creek)\Bridge Plans\GPE & GENERAL DETAILS.dgn

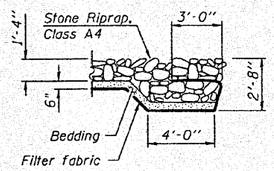


SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. ℄ Rt. L's)

*Included in the cost of Pipe Underdrains for Structures.

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



SECTION A-A

STATION 1219+54.00
BUILT 201_ BY
STATE OF ILLINOIS
F.A.P. RT. 685 SEC. 118B-1
LOADING HL-93
STRUCTURE NO. 034-0528

NAME PLATE

See Std. 515001

GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts in painted areas and M164 Type 3 in unpainted areas. Bolts $\frac{3}{4}$" ϕ. holes $\frac{13}{16}$" ϕ. unless otherwise noted.

Calculated weight of Structural Steel = 145,850 Pounds.

All structural steel shall be AASHTO M270 Grade 50W. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".

No field welding is permitted except as specified in the contract documents.

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

Reinforcement bars designated (E) shall be epoxy coated.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.

Layout of the 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 is advised that the existing PPC Deck beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

If the Contractor's procedures for existing deck beam removal involves placement of heavy equipment on the existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads. Cost included with Removal of Existing Structures.

Current Ratings on File for Existing Structure

Inventory = HS 26.5
Operating = HS 43.8
Live Load Restrictions: No

Inventory and Operating Ratings and Live Load Restrictions are provided for information only. Inventory and Operating Ratings are based on HS Loading and configuration. Live Load Restrictions are based on Illinois legal loads and configurations. The Ratings and Live Load Restrictions are not necessarily representative of capacities to support the Contractor's equipment.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.		170	170
Stone Riprap, Class A4	Sq. Yd.		2,234	2,234
Filter Fabric	Sq. Yd.		2,234	2,234
Removal of Existing Structures No. 1	Each			1
Structure Excavation	Cu. Yd.		312	312
Floor Drains	Each	12		12
Concrete Structures	Cu. Yd.		63.2	63.2
Concrete Superstructure	Cu. Yd.	283.0		283.0
Bridge Deck Grooving	Sq. Yd.	620		620
Concrete Encasement	Cu. Yd.		5.6	5.6
Protective Coat	Sq. Yd.	777		777
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	1,998		1,998
Reinforcement Bars, Epoxy Coated	Pound	63,520	7,720	71,240
Bar Splicers	Each	639	24	663
Furnishing Steel Piles, HP 12x63	Foot		805	805
Driving Piles	Foot		805	805
Test Pile Steel HP 12x63	Each		2	2
Name Plates	Each	1		1
Anchor Bolts, 1"	Each		24	24
Geocomposite Wall Drain	Sq. Yd.		83	83
Pipe Underdrains for Structures 4"	Foot		166	166
Temporary Soil Retention System	Sq. Ft.		560	560
Asbestos Bearing Pad Removal	Each	22		22

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		CHECKED ADL	REVISED -
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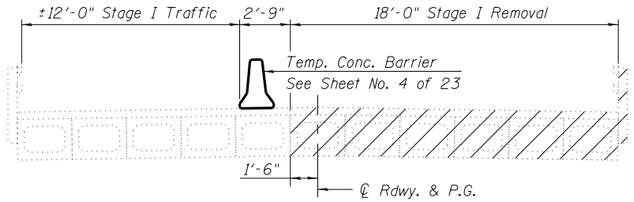
	PLOT DATE =	CHECKED ADL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

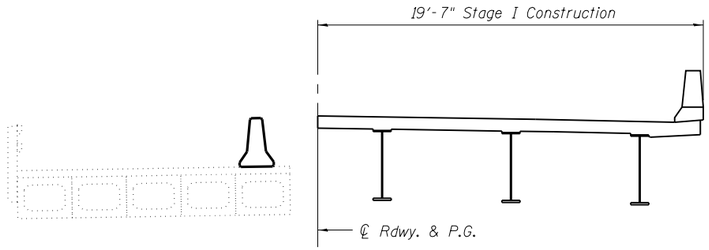
GENERAL DATA
STRUCTURE NO. 034-0528
SHEET NO. 2 OF 23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	44
		CONTRACT NO. 72805		
		ILLINOIS FED. AID PROJECT		

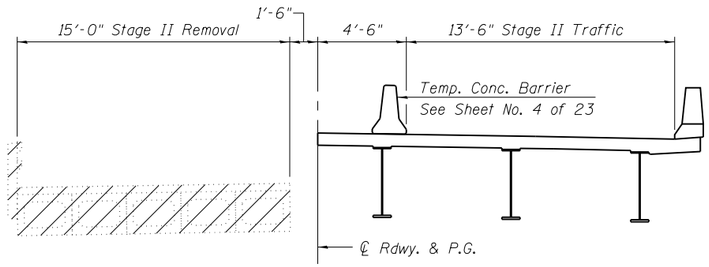
Klingner & Associates P.C.



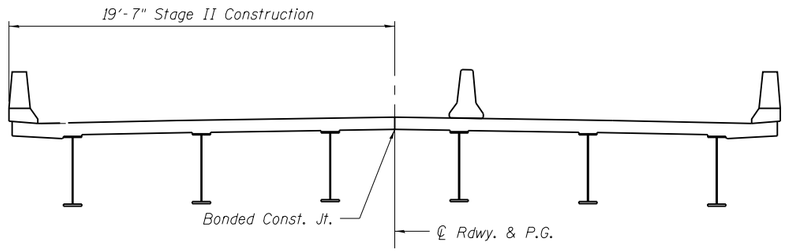
STAGE I REMOVAL



STAGE I CONSTRUCTION

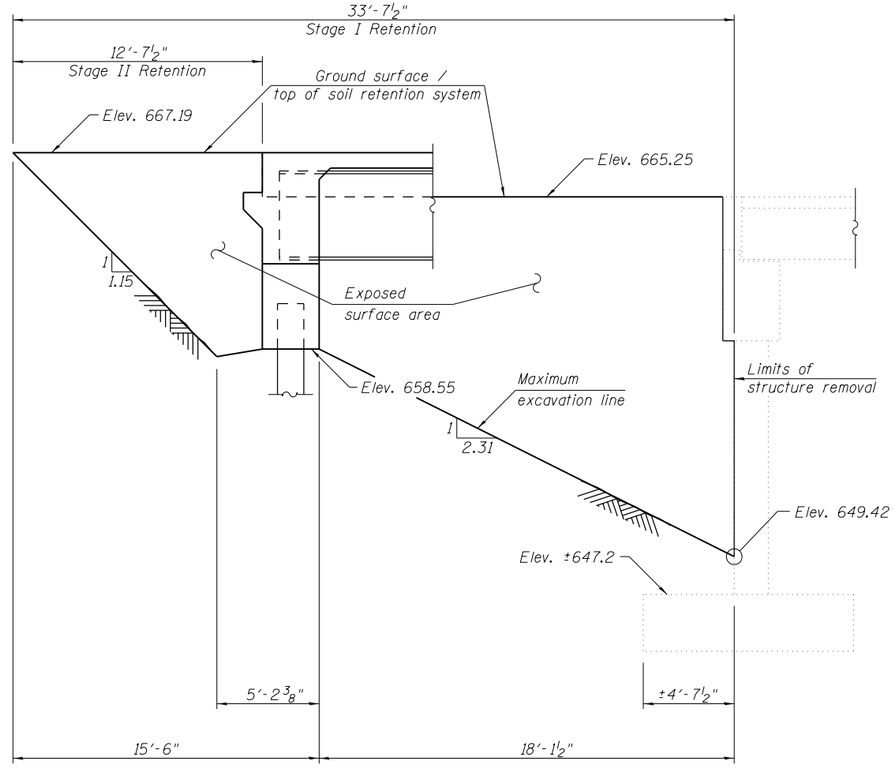


STAGE II REMOVAL



STAGE II CONSTRUCTION

Notes:
Cross Sections are looking Upstation.
Hatched area indicates Removal of Existing Structures.
For quantity of Temporary Concrete Barrier, see Roadway Plans.
Removal of existing railing, overlay and precast approach beams is included with Removal of Existing Structures.



TEMPORARY SOIL RETENTION SYSTEM - N. & S. ABUTS.

(Dimensions measured along stage construction line)

Notes:
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.

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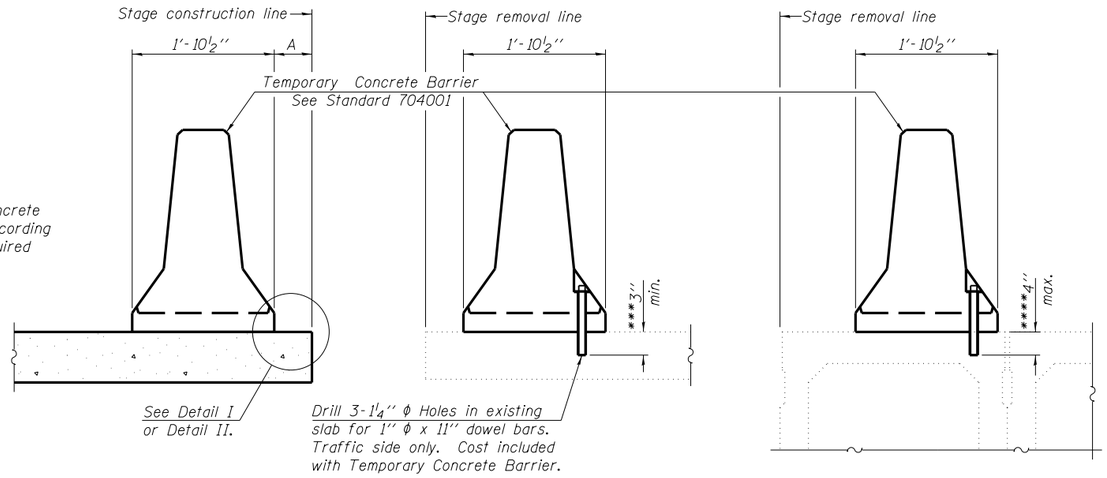
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 034-0528
SHEET NO. 3 OF 23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	45
		CONTRACT NO. 72B05		
	ILLINOIS	FED. AID PROJECT		

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'' x 7'' x ''W'' steel PL to the top layer of couplers with 2-⅝'' ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1'' x 7'' x ''W'' steel PL to the concrete slab or concrete wearing surface with 2-⅝'' ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

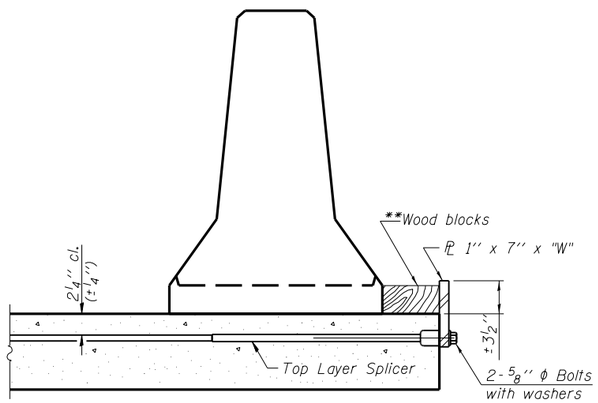
Cost of anchorage is included with Temporary Concrete Barrier.

The 1'' x 7'' x ''W'' plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

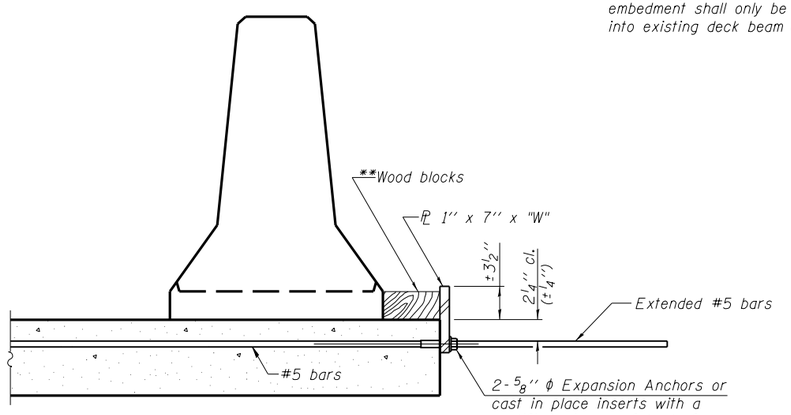
SECTIONS THRU SLAB OR DECK BEAM

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

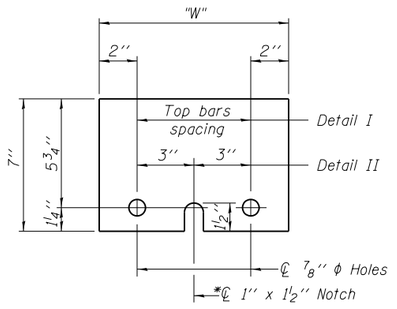
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER PL 1'' x 7'' x ''W''

* Required only with Detail II

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

"W" = Top bars spacing + 4''

R-27

7-1-10

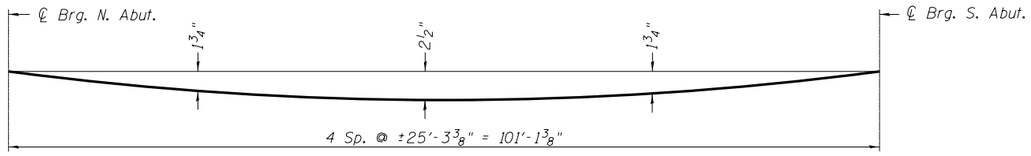
FILE NAME =	USER NAME =	DESIGNED RJP	REVISED -
		CHECKED ADL	REVISED -
	PLOT SCALE =	DRAWN RJP	REVISED -
	PLOT DATE =	CHECKED ADL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 034-0528
SHEET NO. 4 OF 23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	46
		CONTRACT NO. 72B05		
	ILLINOIS	FED. AID PROJECT		

Klingner & Associates P.C.



DEAD LOAD DEFLECTION DIAGRAM

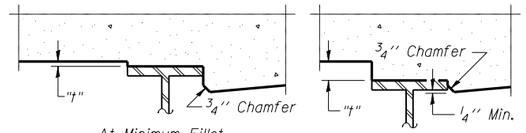
(Includes weight of concrete only.)

Notes:

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

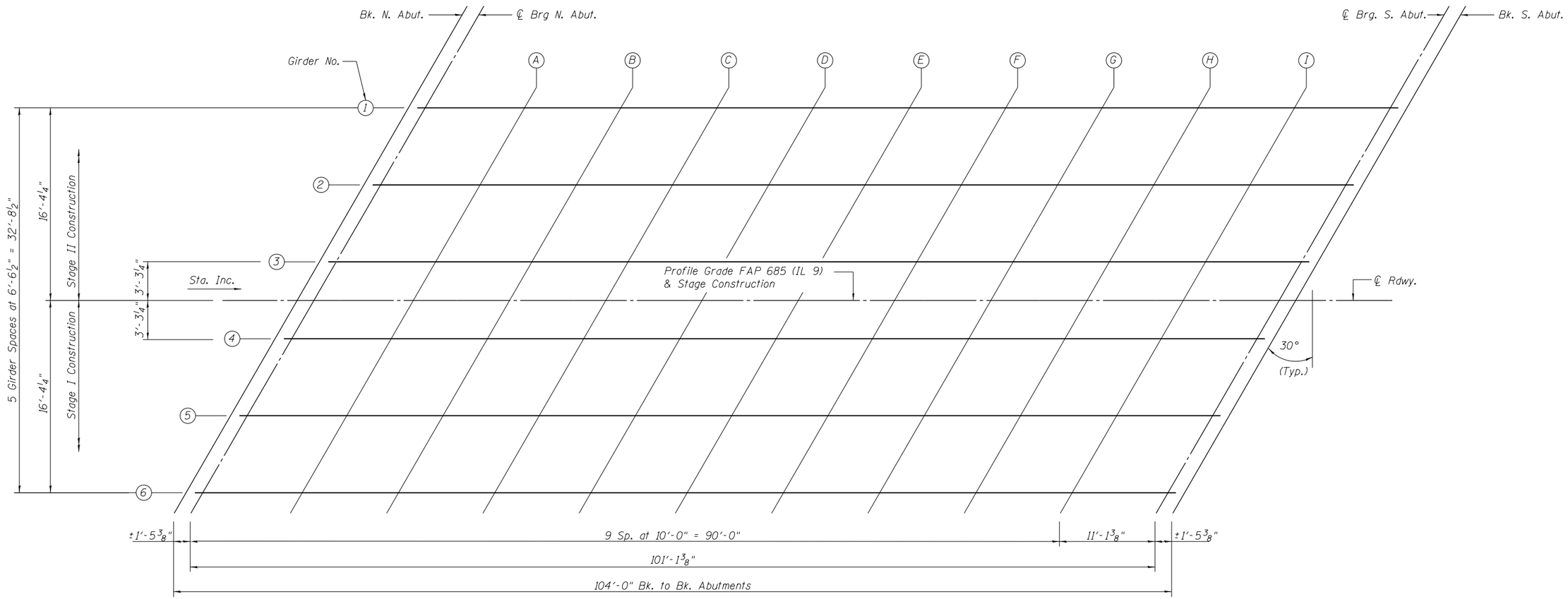
See Sheet 6 of 23 for Elevations.

Offsets to the left are negative. Offsets to the right are positive.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheet 6 of 23, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



PLAN

FILE NAME =	USER NAME =	DESIGNED RJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SLAB ELEVATIONS STRUCTURE NO. 034-0528	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED ADL	REVISED -			685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	47
	PLOT SCALE =	DRAWN RJP	REVISED -					CONTRACT NO. 72B05		
	PLOT DATE =	CHECKED ADL	REVISED -		SHEET NO. 5 OF 23 SHEETS			ILLINOIS FED. AID PROJECT		

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PROFILE GRADE FAP 685 & ℄ STAGE CONSTRUCTION

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	1219+02.00	0.00	667.19	667.19
℄ Brg. N. Abut.	1219+03.44	0.00	667.19	667.19
A	1219+13.44	0.00	667.22	667.28
B	1219+23.44	0.00	667.24	667.36
C	1219+33.44	0.00	667.25	667.42
D	1219+43.44	0.00	667.26	667.46
E	1219+53.44	0.00	667.26	667.47
F	1219+63.44	0.00	667.26	667.46
G	1219+73.44	0.00	667.25	667.42
H	1219+83.44	0.00	667.24	667.36
I	1219+93.44	0.00	667.22	667.29
℄ Brg. S. Abut.	1220+04.56	0.00	667.19	667.19
Bk. S. Abut.	1220+06.00	0.00	667.19	667.19

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	1219+11.44	-16.35	666.93	666.93
℄ Brg. N. Abut.	1219+12.89	-16.35	666.94	666.94
A	1219+22.89	-16.35	666.96	667.02
B	1219+32.89	-16.35	666.97	667.10
C	1219+42.89	-16.35	666.98	667.15
D	1219+52.89	-16.35	666.98	667.18
E	1219+62.89	-16.35	666.98	667.19
F	1219+72.89	-16.35	666.97	667.17
G	1219+82.89	-16.35	666.96	667.13
H	1219+92.89	-16.35	666.94	667.07
I	1220+02.89	-16.35	666.92	666.99
℄ Brg. S. Abut.	1220+14.00	-16.35	666.88	666.88
Bk. S. Abut.	1220+15.44	-16.35	666.88	666.88

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	1219+07.67	-9.81	667.05	667.05
℄ Brg. N. Abut.	1219+09.11	-9.81	667.05	667.05
A	1219+19.11	-9.81	667.08	667.14
B	1219+29.11	-9.81	667.09	667.22
C	1219+39.11	-9.81	667.10	667.27
D	1219+49.11	-9.81	667.11	667.31
E	1219+59.11	-9.81	667.11	667.32
F	1219+69.11	-9.81	667.10	667.30
G	1219+79.11	-9.81	667.09	667.26
H	1219+89.11	-9.81	667.07	667.20
I	1219+99.11	-9.81	667.05	667.12
℄ Brg. S. Abut.	1220+10.22	-9.81	667.02	667.02
Bk. S. Abut.	1220+11.67	-9.81	667.02	667.02

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	1219+03.89	-3.27	667.14	667.14
℄ Brg. N. Abut.	1219+05.33	-3.27	667.14	667.14
A	1219+15.33	-3.27	667.17	667.23
B	1219+25.33	-3.27	667.19	667.31
C	1219+35.33	-3.27	667.20	667.37
D	1219+45.33	-3.27	667.21	667.41
E	1219+55.33	-3.27	667.21	667.42
F	1219+65.33	-3.27	667.21	667.41
G	1219+75.33	-3.27	667.20	667.37
H	1219+85.33	-3.27	667.18	667.31
I	1219+95.33	-3.27	667.16	667.24
℄ Brg. S. Abut.	1220+06.45	-3.27	667.13	667.13
Bk. S. Abut.	1220+07.89	-3.27	667.13	667.13

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	1219+00.11	3.27	667.13	667.13
℄ Brg. N. Abut.	1219+01.56	3.27	667.13	667.13
A	1219+11.56	3.27	667.16	667.22
B	1219+21.56	3.27	667.18	667.31
C	1219+31.56	3.27	667.20	667.36
D	1219+41.56	3.27	667.21	667.41
E	1219+51.56	3.27	667.21	667.42
F	1219+61.56	3.27	667.21	667.41
G	1219+71.56	3.27	667.20	667.37
H	1219+81.56	3.27	667.19	667.32
I	1219+91.56	3.27	667.17	667.24
℄ Brg. S. Abut.	1220+02.67	3.27	667.14	667.14
Bk. S. Abut.	1220+04.11	3.27	667.14	667.14

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	1218+96.33	9.81	667.02	667.02
℄ Brg. N. Abut.	1218+97.78	9.81	667.02	667.02
A	1219+07.78	9.81	667.05	667.11
B	1219+17.78	9.81	667.07	667.20
C	1219+27.78	9.81	667.09	667.26
D	1219+37.78	9.81	667.10	667.30
E	1219+47.78	9.81	667.11	667.32
F	1219+57.78	9.81	667.11	667.31
G	1219+67.78	9.81	667.10	667.27
H	1219+77.78	9.81	667.09	667.22
I	1219+87.78	9.81	667.08	667.15
℄ Brg. S. Abut.	1219+98.89	9.81	667.05	667.05
Bk. S. Abut.	1220+00.33	9.81	667.05	667.05

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	1218+92.56	16.35	666.88	666.88
℄ Brg. N. Abut.	1218+94.00	16.35	666.88	666.88
A	1219+04.00	16.35	666.91	666.98
B	1219+14.00	16.35	666.94	667.06
C	1219+24.00	16.35	666.96	667.13
D	1219+34.00	16.35	666.97	667.17
E	1219+44.00	16.35	666.98	667.19
F	1219+54.00	16.35	666.98	667.18
G	1219+64.00	16.35	666.98	667.15
H	1219+74.00	16.35	666.97	667.10
I	1219+84.00	16.35	666.96	667.03
℄ Brg. S. Abut.	1219+95.11	16.35	666.94	666.94
Bk. S. Abut.	1219+96.56	16.35	666.93	666.93

FILE NAME =	USER NAME =	DESIGNED RJP	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		CHECKED ADL	REVISED -	
	PLOT SCALE =	DRAWN RJP	REVISED -	
	PLOT DATE =	CHECKED ADL	REVISED -	

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 034-0528
SHEET NO. 6 OF 23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	48
		CONTRACT NO. 72B05		
	ILLINOIS	FED. AID PROJECT		

$FILE$

Klingner & Associates P.C.

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Slab	1218+82.39	-18.00	666.81
A1	1218+92.39	-18.00	666.84
A2	1219+02.39	-18.00	666.88
S. End North Appr. Slab	1219+12.39	-18.00	666.90

EAST EDGE OF PAVEMENT

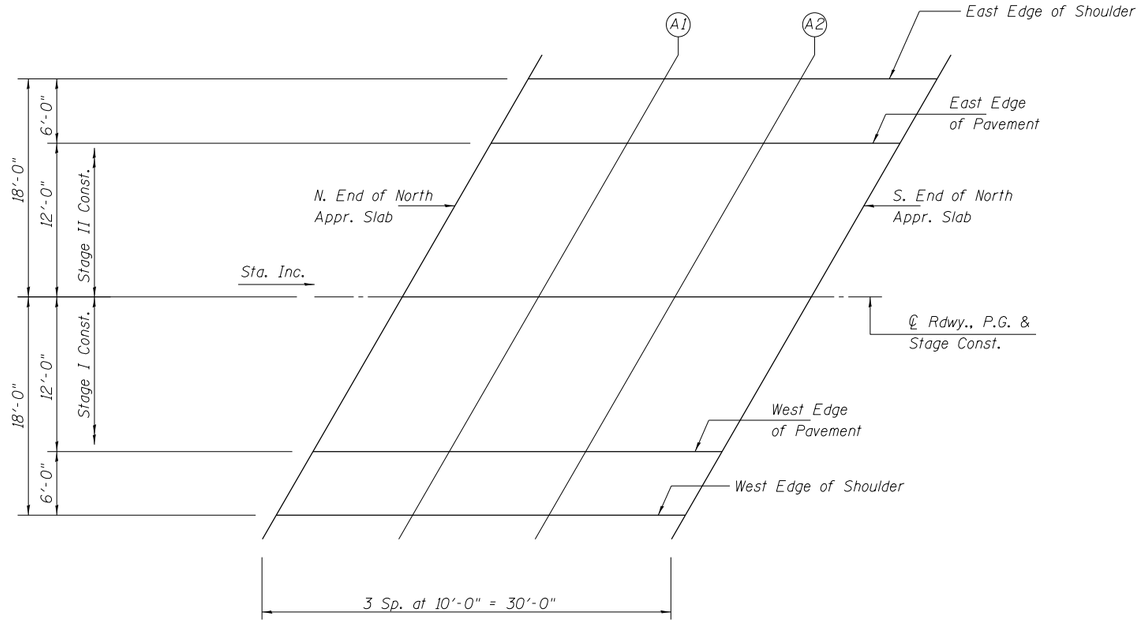
Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Slab	1218+78.93	-12.00	666.92
A1	1218+88.93	-12.00	666.96
A2	1218+98.93	-12.00	666.99
S. End North Appr. Slab	1219+08.93	-12.00	667.02

℄ ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Slab	1218+72.00	0.00	667.07
A1	1218+82.00	0.00	667.12
A2	1218+92.00	0.00	667.15
S. End North Appr. Slab	1219+02.00	0.00	667.19

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Slab	1218+65.07	12.00	666.85
A1	1218+75.07	12.00	666.90
A2	1218+85.07	12.00	666.94
S. End North Appr. Slab	1218+95.07	12.00	666.98



PLAN

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Slab	1218+61.61	18.00	666.71
A1	1218+71.61	18.00	666.76
A2	1218+81.61	18.00	666.80
S. End North Appr. Slab	1218+91.61	18.00	666.84

FILE NAME =	USER NAME =	DESIGNED RJP	REVISED -
		CHECKED ADL	REVISED -
	PLOT SCALE =	DRAWN RJP	REVISED -
	PLOT DATE =	CHECKED ADL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 034-0528
SHEET NO. 7 OF 23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	49
		CONTRACT NO. 72B05		
	ILLINOIS	FED. AID PROJECT		

EAST EDGE OF SHOULDER

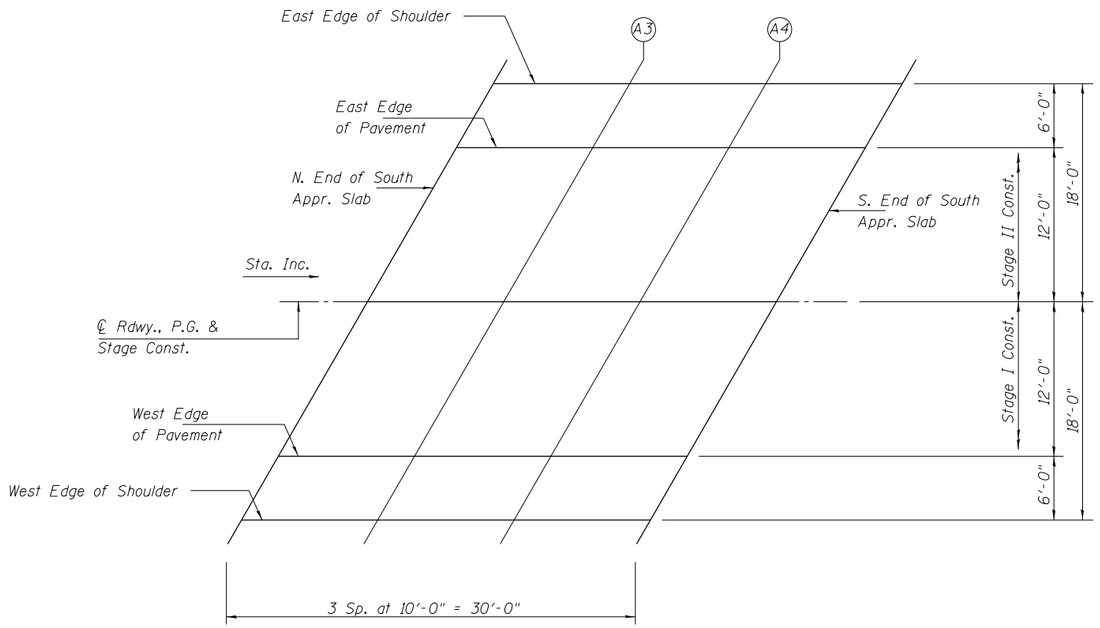
Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Slab	1220+16.39	-18.00	666.84
A3	1220+26.39	-18.00	666.80
A4	1220+36.39	-18.00	666.76
S. End South Appr. Slab	1220+46.39	-18.00	666.71

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Slab	1220+12.93	-12.00	666.98
A3	1220+22.93	-12.00	666.94
A4	1220+32.93	-12.00	666.90
S. End South Appr. Slab	1220+42.93	-12.00	666.85

℄ ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Slab	1220+06.00	0.00	667.19
A3	1220+16.00	0.00	667.15
A4	1220+26.00	0.00	667.12
S. End South Appr. Slab	1220+36.00	0.00	667.07



PLAN

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Slab	1219+99.07	12.00	667.02
A3	1220+09.07	12.00	666.99
A4	1220+19.07	12.00	666.96
S. End South Appr. Slab	1220+29.07	12.00	666.92

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Slab	1219+95.61	18.00	666.90
A3	1220+05.61	18.00	666.88
A4	1220+15.61	18.00	666.84
S. End South Appr. Slab	1220+25.61	18.00	666.81

FILE NAME =	USER NAME =	DESIGNED RJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SOUTH APPROACH SLAB ELEVATIONS STRUCTURE NO. 034-0528	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED ADL	REVISED -			685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	50
	PLOT SCALE =	DRAWN RJP	REVISED -					CONTRACT NO. 72B05		
	PLOT DATE =	CHECKED ADL	REVISED -		SHEET NO. 8 OF 23 SHEETS			ILLINOIS FED. AID PROJECT		

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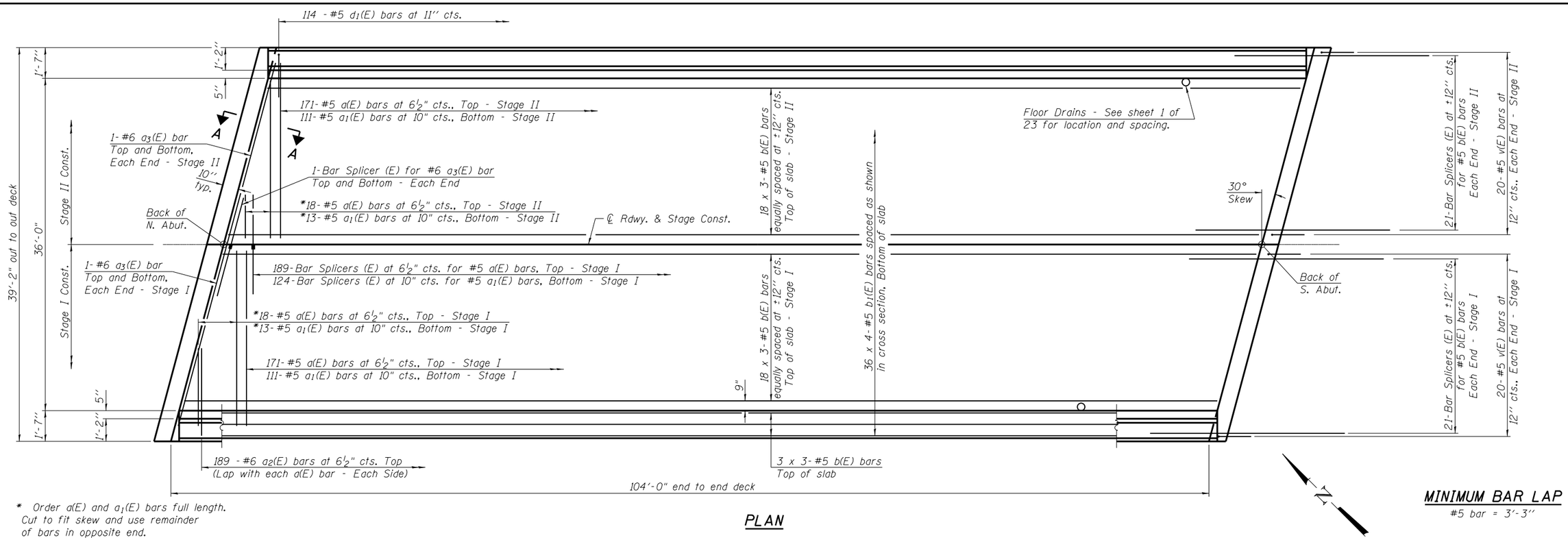
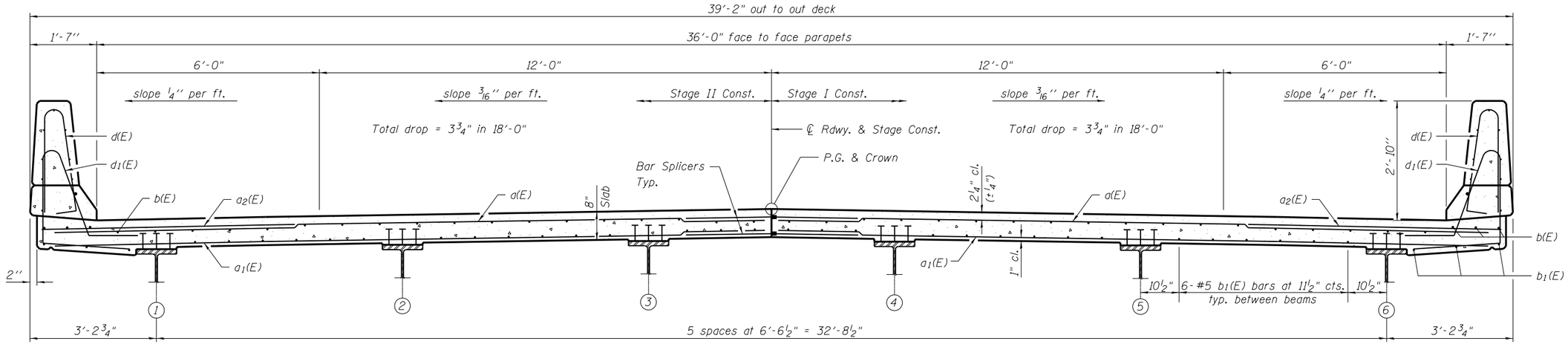


PLAN

* Order a(E) and a_1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

MINIMUM BAR LAP

#5 bar = 3'-3''



CROSS SECTION

(Looking South)

Notes:

See Sheet 10 of 23 for superstructure details and Bill of Material.

Bars indicated thus 16 x 3- #5 etc. indicates 16 lines of bars with 3 lengths per line.

See Sheet 10 of 23 for parapet reinforcement.

See Sheet 11 of 23 for Section A-A.

FILE NAME =	USER NAME =	DESIGNED RJP	REVISED -
		CHECKED ADL	REVISED -
	PLOT SCALE =	DRAWN RJP	REVISED -
	PLOT DATE =	CHECKED ADL	REVISED -

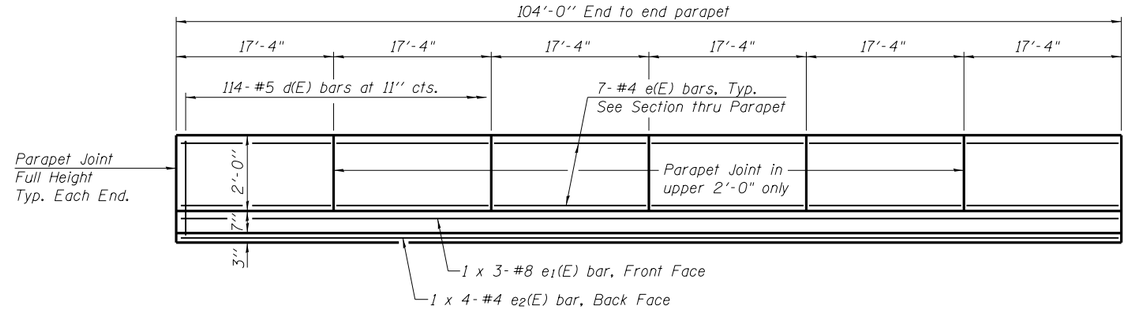
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 034-0528
SHEET NO. 9 OF 23 SHEETS

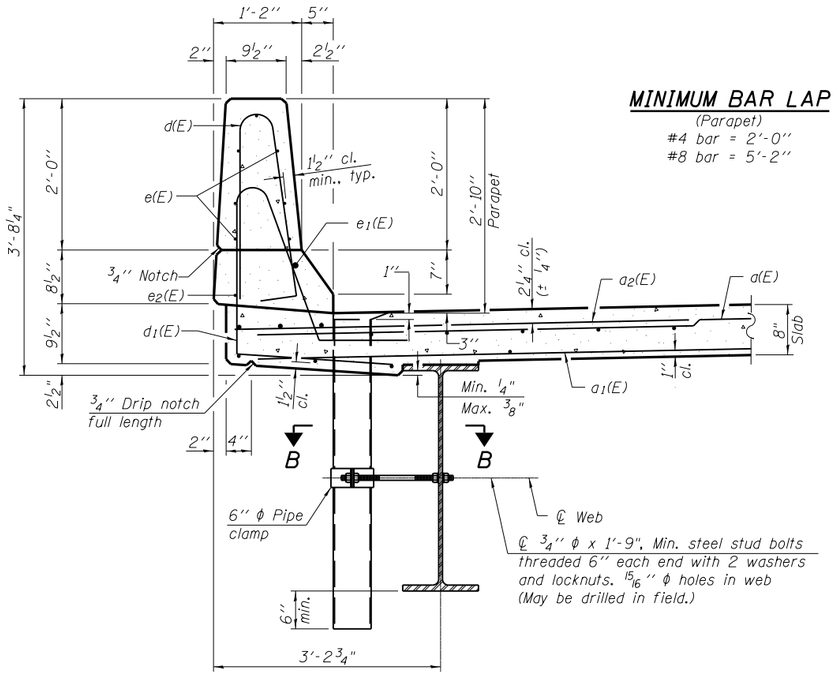
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	51
		CONTRACT NO. 72B05		
	ILLINOIS	FED. AID PROJECT		

$FILE$

Klingner & Associates P.C.

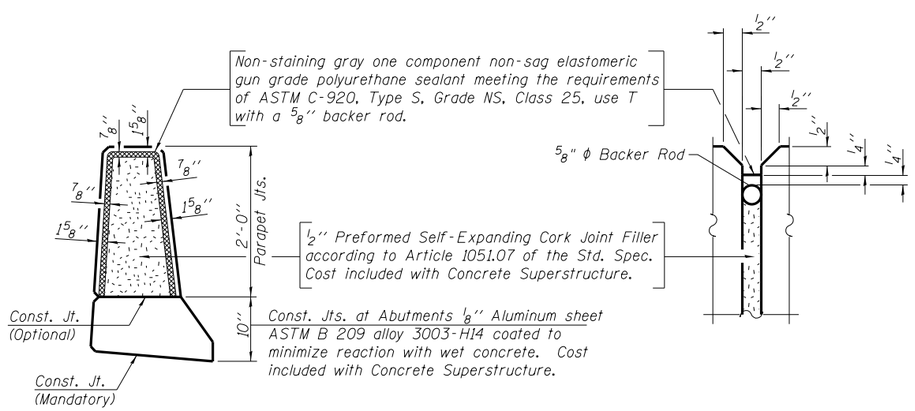


INSIDE ELEVATION OF PARAPET

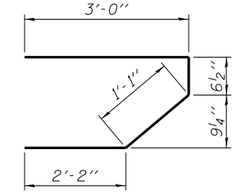


SECTION THRU PARAPET

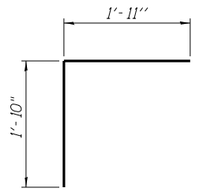
MINIMUM BAR LAP
(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"



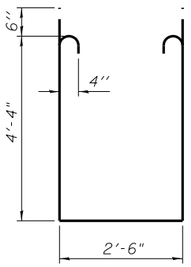
PARAPET JOINT DETAILS



BAR s(E)



BAR v(E)



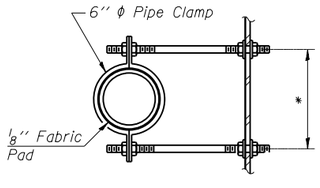
BAR s1(E)

SUPERSTRUCTURE BILL OF MATERIAL

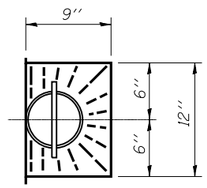
Bar	No.	Size	Length	Shape
a(E)	378	#5	19'-0"	
a1(E)	248	#5	18'-9"	
a2(E)	378	#6	6'-6"	
a3(E)	8	#6	22'-4"	
b(E)	126	#5	36'-9"	
b1(E)	144	#5	28'-5"	
d(E)	228	#5	5'-7"	
d1(E)	228	#5	7'-10"	
e(E)	84	#4	17'-0"	
e1(E)	6	#8	38'-1"	
e2(E)	8	#4	27'-6"	
m(E)	20	#6	22'-4"	
m1(E)	24	#6	9'-8"	
m2(E)	8	#6	5'-10"	
m3(E)	8	#6	2'-9"	
s(E)	80	#5	6'-10"	
s1(E)	72	#4	12'-2"	
v(E)	80	#5	3'-9"	
Reinforcement Bars, Epoxy Coated			Pound	32,560
Concrete Superstructure			Cu. Yds.	162.4
Floor Drains			Each	12
Bar Splicers			Each	417

Bars indicated thus 7 x 3-#4 etc. indicates 7 lines of bars with 3 lengths per line.

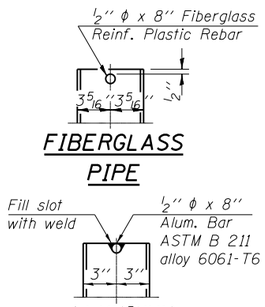
Notes:
Drains shall be located clear of all diaphragms.
The Floor Drains need not be painted.
Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
Galvanize clamping device according to AASHTO M232. Cost of clamping device and inserts is included with Floor Drains.



SECTION B-B
*Dimension as required by Pipe Clamp

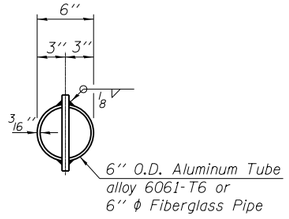


TOP PLAN

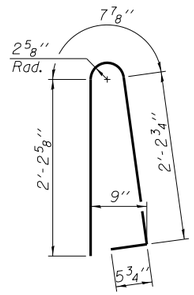


FIBERGLASS PIPE

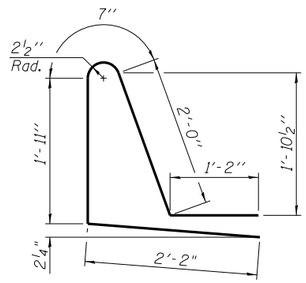
ALUMINUM TUBE



TOP PLAN
(Showing Aluminum Tube)



BAR d(E)



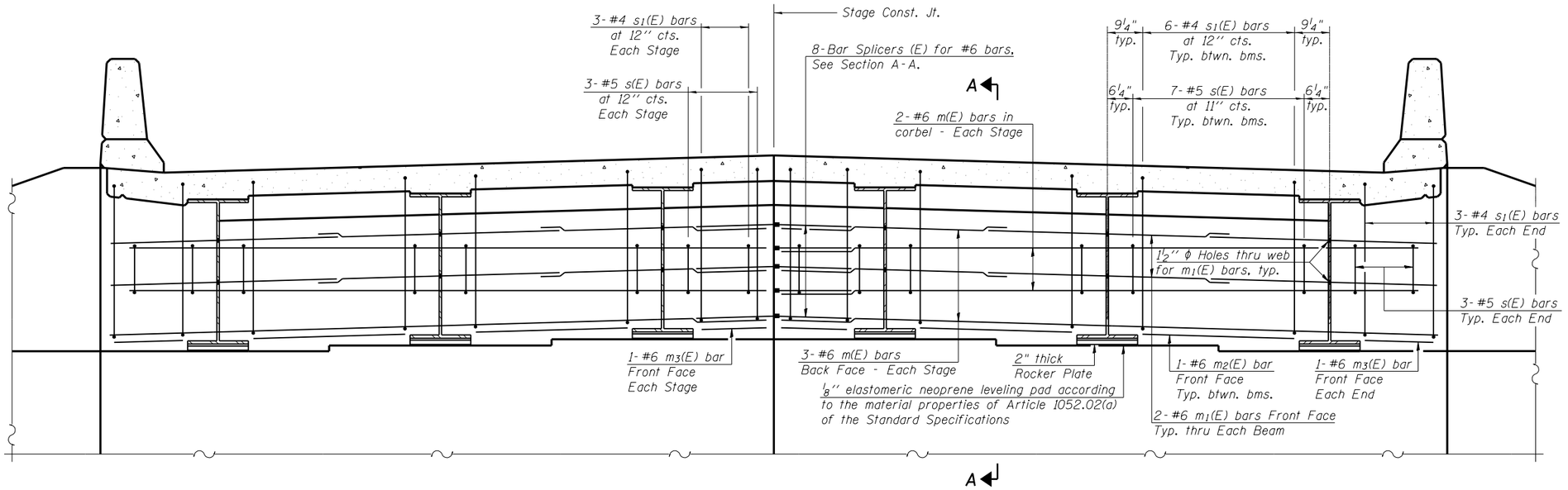
BAR d1(E)

FILE NAME =	USER NAME =	DESIGNED RJP	REVISED -
		CHECKED ADL	REVISED -
	PLOT SCALE =	DRAWN RJP	REVISED -
	PLOT DATE =	CHECKED ADL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 034-0528
SHEET NO. 10 OF 23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	52
		CONTRACT NO. 72B05		
	ILLINOIS	FED. AID PROJECT		



DIAPHRAGM ELEVATION AT ABUTMENT

Notes:

Reinforcement bars in diaphragm are billed with superstructure on sheet 10 of 23.

Concrete in diaphragm is included with Concrete Superstructure on sheet 10 of 23.

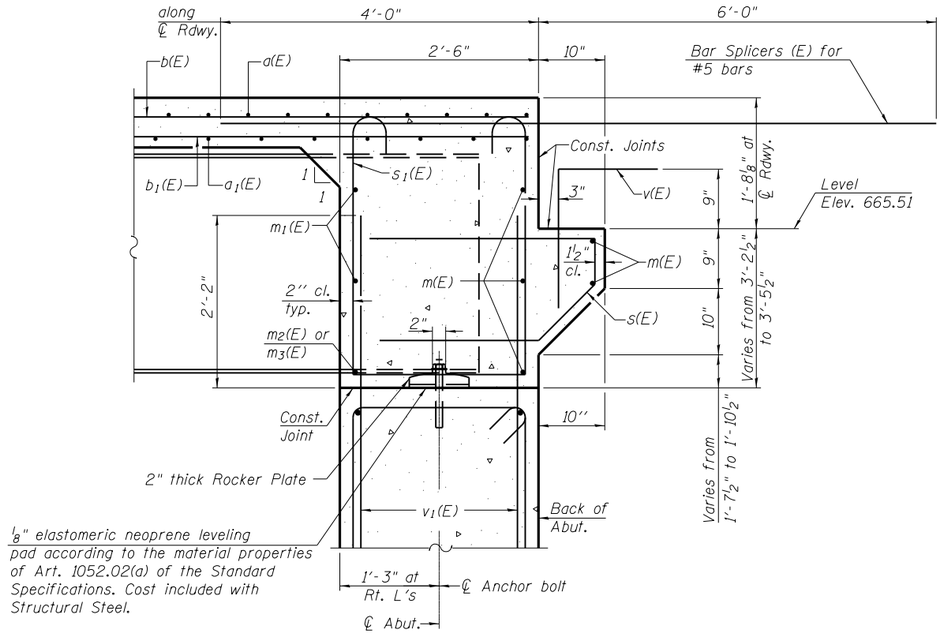
For details of bars s(E) & s_1(E) see sheet 10 of 23.

The s(E) and s_1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

For location of holes thru web, see sheet 15 of 23.

MIN. BAR LAP

#6 bar = 3'-4''



SECTION A-A

Dimensions at right angles to abutment, except as shown.

FILE NAME =	USER NAME =	DESIGNED RJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DIAPHRAGM DETAILS STRUCTURE NO. 034–0528	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED ADL	REVISED -			685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	53
	PLOT SCALE =	DRAWN RJP	REVISED -					CONTRACT NO. 72B05		
	PLOT DATE =	CHECKED ADL	REVISED -		SHEET NO. 11 OF 23 SHEETS			ILLINOIS FED. AID PROJECT		

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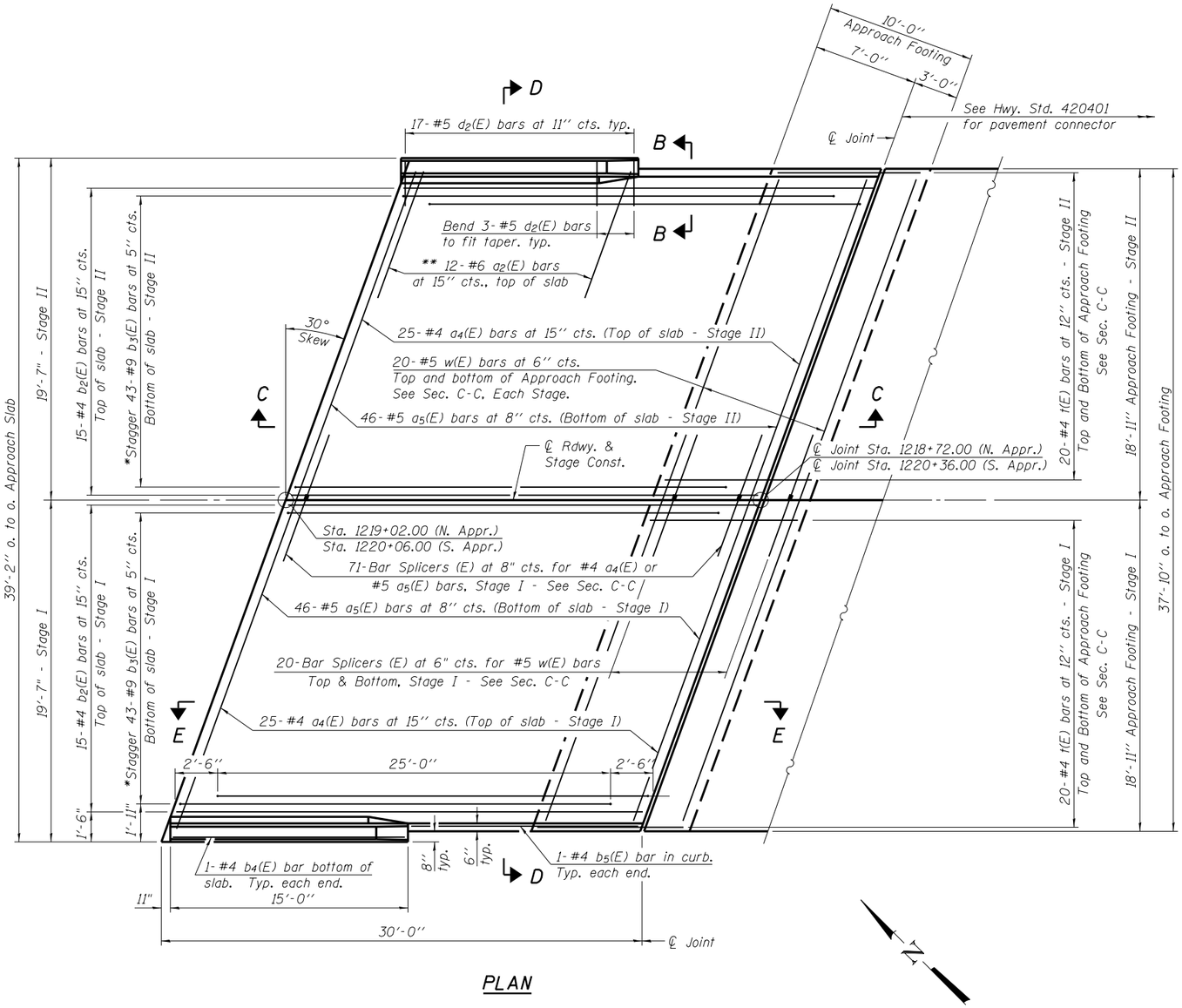
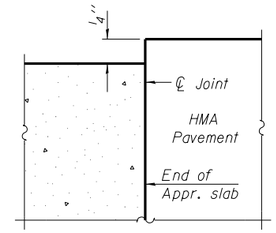
Notes:
See sheet 13 of 23 for Sections C-C & D-D and View E-E.
$a_4(E)$ and $a_5(E)$ bar spacings measured along ℄ Rdwy.



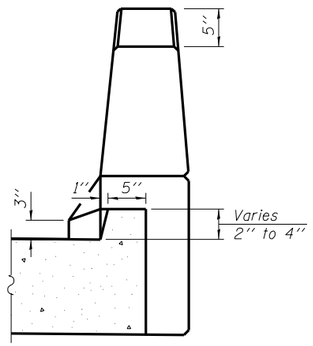
PLAN

* Tilt #9 $b_3(E)$ bars as required to maintain clearance.
** Space between $a_4(E)$ bars, typ. each parapet.



FLEXIBLE PAVEMENT

DETAIL A



VIEW B-B

FILE NAME =	USER NAME =	DESIGNED RJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH SLAB DETAILS (SHEET 1 of 2) STRUCTURE NO. 034-0528	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED ADL	REVISED -			685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	54
	PLOT SCALE =	DRAWN RJP	REVISED -					CONTRACT NO. 72B05		
	PLOT DATE =	CHECKED ADL	REVISED -		SHEET NO. 12 OF 23 SHEETS		ILLINOIS	FED. AID PROJECT		

$FILE$

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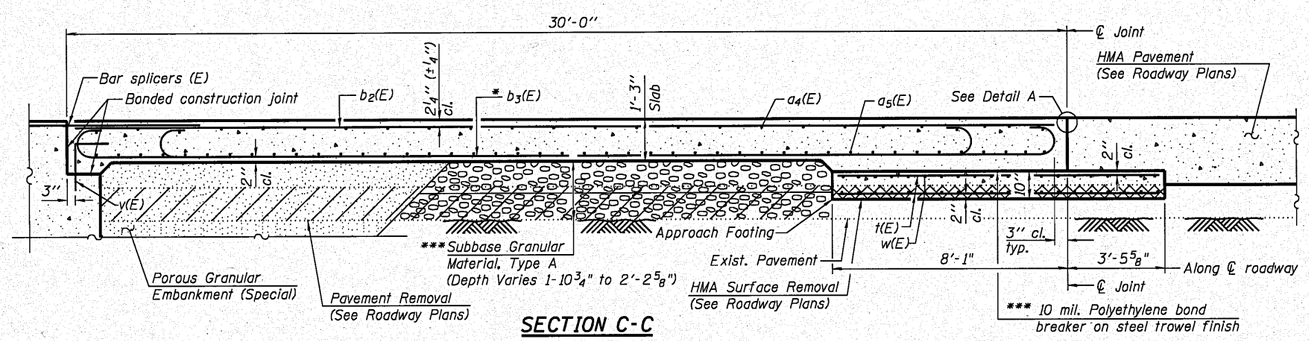
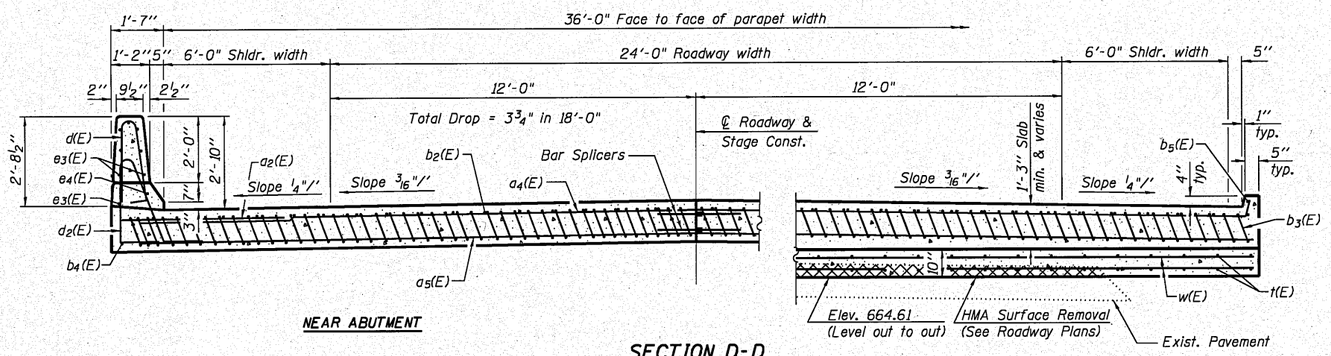


SECTION C-C

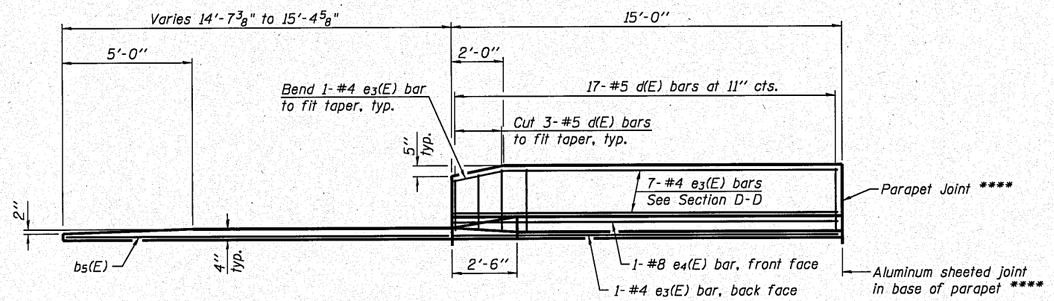


NEAR ABUTMENT

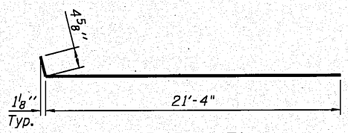
SECTION D-D

(See Plan for dimensions not shown)

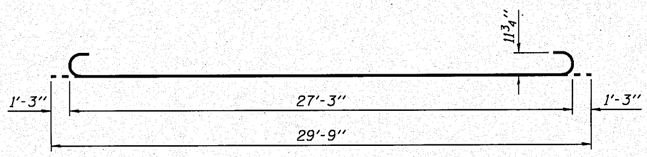
AT APPROACH FOOTING



VIEW E-E



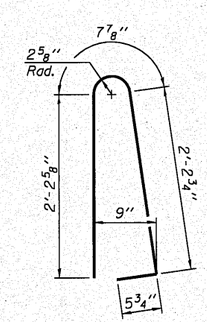
BAR a4(E)



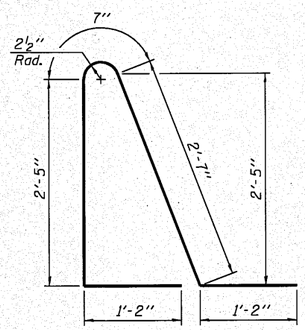
BAR b3(E)

Notes:

See sheet 12 of 23 for Detail A and View B-B.
Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
For v(E) bar details, see sheet 10 of 23.
For bar splicer details, see sheet 20 of 23.
Cost of excavation for approach footing included with Concrete Structures.
For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 23.
For additional parapet details, see sheet 10 of 23.
The Contractor shall only remove the existing pavement under the approach footings to the elevations shown in Section D-D.
* Tilt #9 b3(E) bars as required to maintain clearance.
*** Cost included with Concrete Superstructure.
**** See sheet 10 of 23 for Parapet Joint Details.



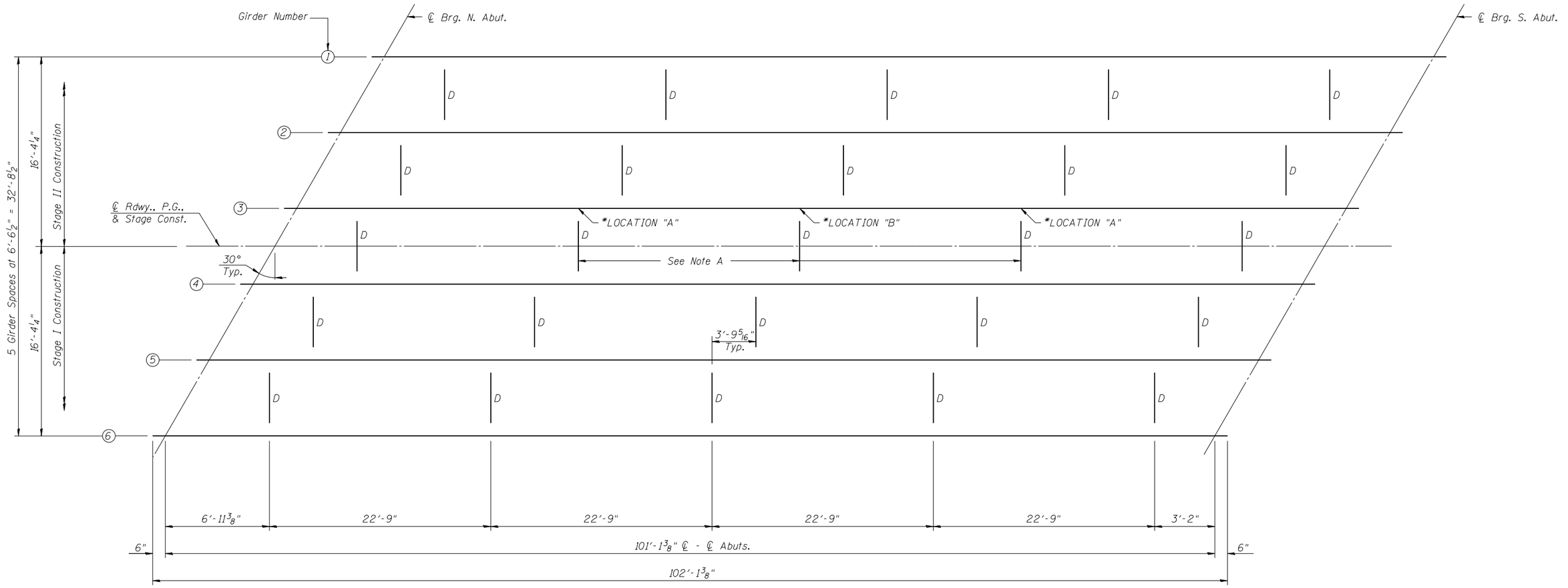
BAR d(E)



BAR d2(E)

TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a2(E)	48	#6	6'-6"	
a4(E)	100	#4	21'-9"	
a5(E)	184	#5	21'-7"	
b2(E)	60	#4	29'-8"	
b3(E)	172	#9	29'-9"	
b4(E)	4	#4	14'-8"	
b5(E)	4	#4	13'-10"	
d(E)	68	#5	5'-7"	
d2(E)	68	#5	7'-11"	
e3(E)	32	#4	14'-8"	
e4(E)	4	#8	14'-8"	
t(E)	160	#4	11'-3"	
w(E)	160	#5	21'-7"	
Concrete Superstructure			Cu. Yd.	120.6
Concrete Structures			Cu. Yd.	23.4
Reinforcement Bars, Epoxy Coated			Pound	30,960
Bar Splicers			Each	222



Note A:
For detail of Temporary Bracing for Stage I Construction, see sheet 16 of 23.

FRAMING PLAN

* Use 13/16" x 1 3/4" slotted holes in 1/2" x 6" Connecting PL in diaphragm at location "A", and 13/16" x 2 1/8" slotted holes in 1/2" x 6" Connecting PL in diaphragm at location "B". Provide 5/16" plate washer for slotted holes. Bolts shall be finger-tightened prior to the deck pour for Stage II Construction and then be fully tightened after completion of the pour. Bolts shall start at the bottom of the slot.

Note:
All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

FILE NAME =	USER NAME =	DESIGNED RJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FRAMING PLAN STRUCTURE NO. 034-0528	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED ADL	REVISED -			685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	56
	PLOT SCALE =	DRAWN RJP	REVISED -					CONTRACT NO. 72B05		
	PLOT DATE =	CHECKED ADL	REVISED -		SHEET NO. 14 OF 23 SHEETS		ILLINOIS	FED. AID PROJECT		

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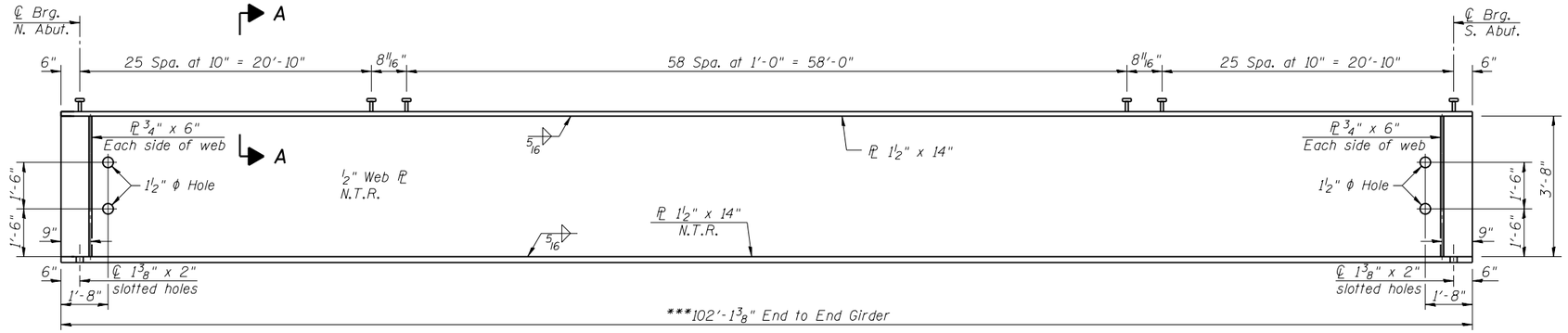
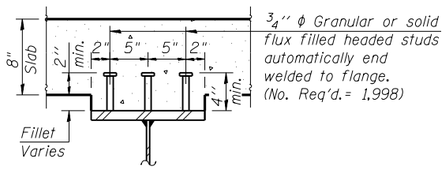


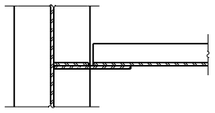
GIRDER ELEVATION

"NTR" denotes plates to which notch toughness requirements are applicable.

SHIM PL TABLE	
Size	Location
9" x 1'-2" x 1/8"	Girder 4 - N. Abut.
9" x 1'-2" x 1/8"	Girder 3 - S. Abut.

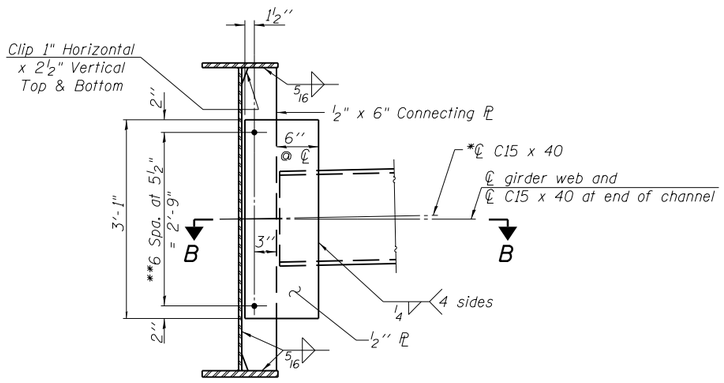


SECTION A-A



SECTION B-B

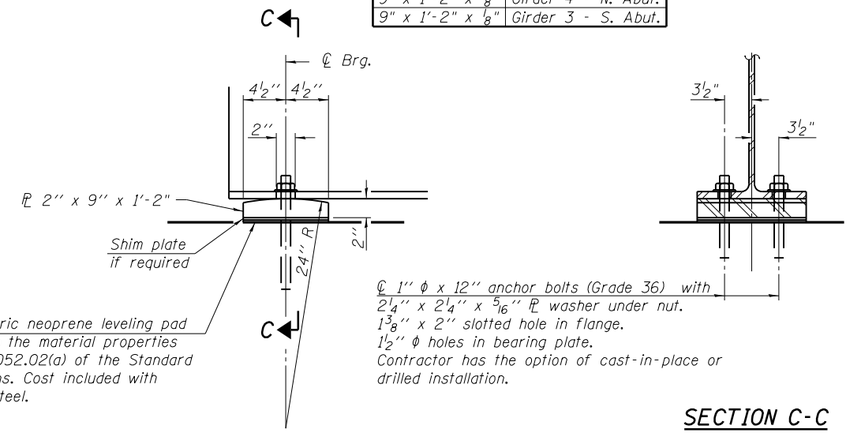
SECTION AT ABUTMENT



INTERIOR DIAPHRAGM, D

(25 Required)

Notes:
Two hardened washers required for each set of oversized holes.
*Alternate C15x50 channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section. The alternate, if utilized, shall be provided at no additional cost to the Department.
**3/4" ϕ HS bolts, 15/16" ϕ holes



SECTION C-C

ELEVATION AT ABUTMENT

FIXED BEARING

Notes:
Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.
***The Contractor shall submit plans showing bracing details for transporting, erection, and deck forming for the section to Engineer for approval.
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 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

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		CHECKED ADL	REVISED -			685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	57
	PLOT SCALE =	DRAWN RJP	REVISED -					CONTRACT NO. 72B05		
	PLOT DATE =	CHECKED ADL	REVISED -		SHEET NO. 15 OF 23 SHEETS		ILLINOIS	FED. AID PROJECT		

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INTERIOR GIRDER MOMENT TABLE		
		0.5 Span 1
I_s	(in^4)	25,295
$I_c(n)$	(in^4)	53,804
$I_c(3n)$	(in^4)	40,257
S_s	(in^3)	1,076
$S_c(n)$	(in^3)	1,377
$S_c(3n)$	(in^3)	1,270
DC1	(k/')	0.935
M_{DC1}	('k)	1,192
DC2	(k/')	0.150
M_{DC2}	('k)	191
DW	(k/')	0.327
M_{DW}	('k)	417
M_{L+IM}	('k)	1,574
M_u (Strength I)	('k)	5,109
* $\phi_f M_n$	('k)	6,574
f_s DC1	(ksi)	13.3
f_s DC2	(ksi)	1.8
f_s DW	(ksi)	3.9
f_s 1.3(L+IM)	(ksi)	17.8
f_s (Service II)	(ksi)	36.8
V_r	(k)	49.0

* Compact sections

INTERIOR GIRDER REACTION TABLE		
		Abutment
R_{DC1}	(k)	48.0
R_{DC2}	(k)	7.6
R_{DW}	(k)	16.5
R_{L+IM}	(k)	94.5
R_{Total}	(k)	166.6

I_s, S_s: Non-composite moment of inertia and section modulus of the steel section used for computing fs (Total-Strength I, and Service II) due to non-composite dead loads ($in.^4$ and $in.^3$).

$I_c(n)$, $S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing fs (Total-Strength I, and Service II) due to short-term composite live loads ($in.^4$ and $in.^3$).

$I_c(3n)$, $S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing fs (Total-Strength I, and Service II) due to long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

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.).

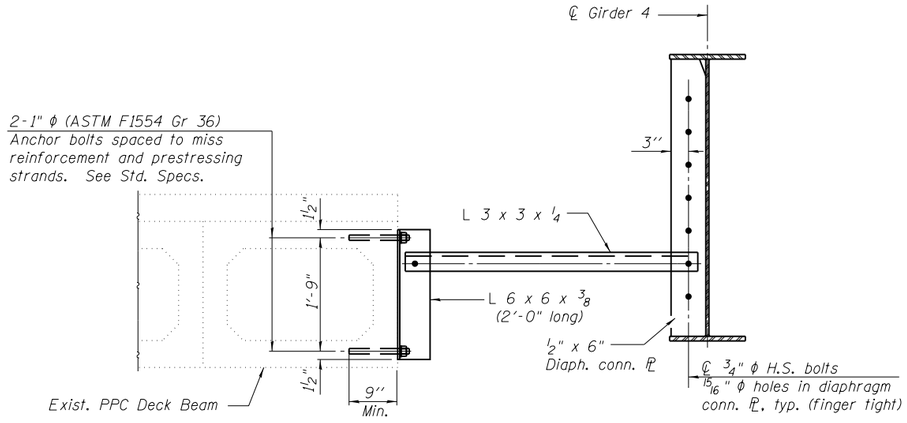
M_{L+IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M_u (Strength I): Factored design moment (kip-ft.).
$1.25\ (M_{DC1} + M_{DC2}) + 1.5\ M_{DW} + 1.75\ M_{L+IM}$

$\phi_f M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).

fs (Service II): Sum of stresses as computed from the moments below (ksi).
$M_{DC1} + M_{DC2} + M_{DW} + 1.3\ M_{L+IM}$

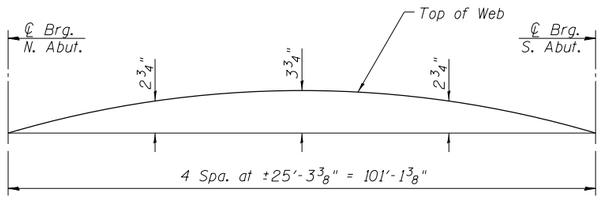
V_r: Maximum factored shear range in composite portion of span computed according to Article 6.10.



TEMPORARY BRACING FOR STAGE I CONSTRUCTION

(3 Required)

The horizontal dimension between the holes in the diaphragm, connection plate, and the L 6 x 6 shall be measured in the field. The holes in the L 3 x 3 shall be field drilled at this dimension. Cost included with Furnishing & Erecting Structural Steel.



CAMBER DIAGRAM

① TOP OF WEB ELEVATIONS		
Girder No.	℄ Brg. N. Abut.	℄ Brg. S. Abut.
1	666.071	666.017
2	666.187	666.155
3	666.279	666.268
4	666.268	666.279
5	666.155	666.187
6	666.017	666.071

① For fabrication only.

FILE NAME =	USER NAME =	DESIGNED RJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GIRDER DETAILS STRUCTURE NO. 034-0528	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED ADL	REVISED -			685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	58
	PLOT SCALE =	DRAWN RJP	REVISED -					CONTRACT NO. 72B05		
	PLOT DATE =	CHECKED ADL	REVISED -		SHEET NO. 16 OF 23 SHEETS			ILLINOIS FED. AID PROJECT		

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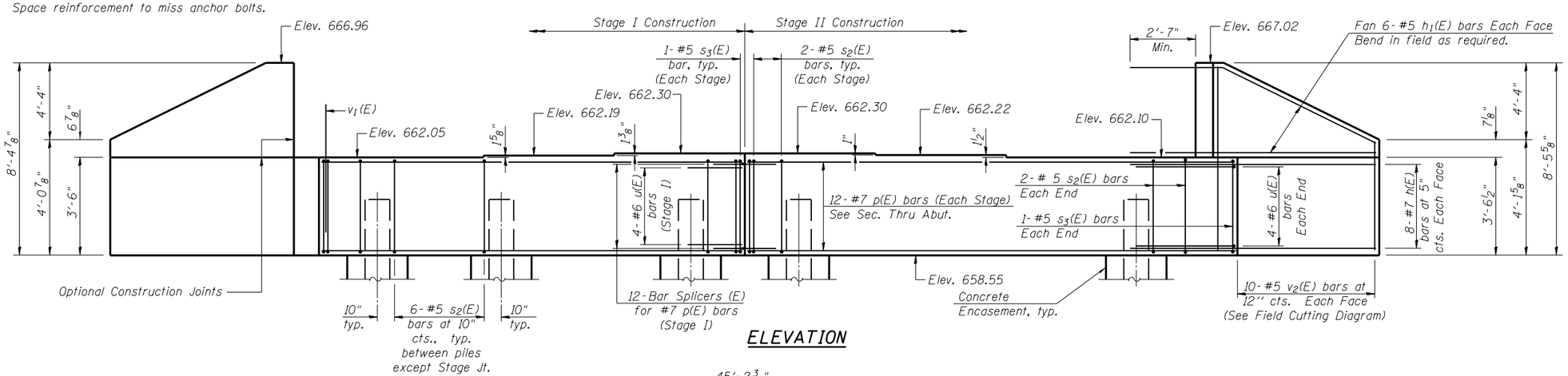
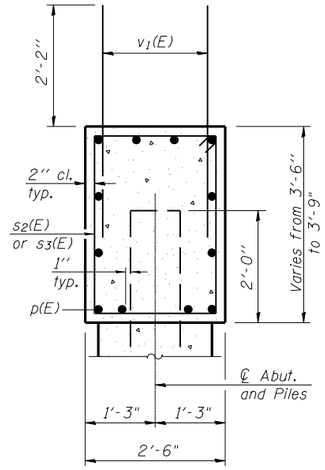
Notes:
Pour steps monolithically with cap.
Space reinforcement to miss anchor bolts.



ELEVATION



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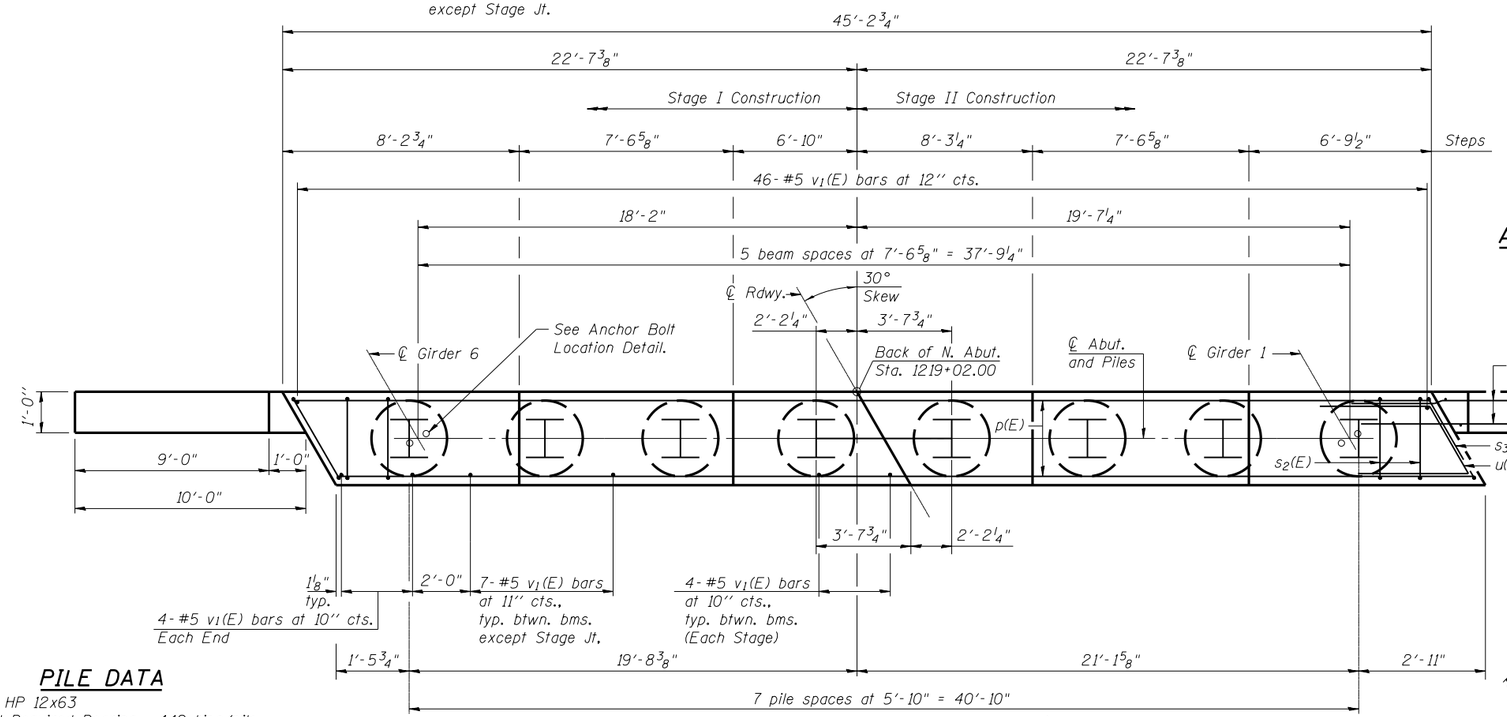
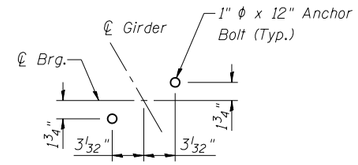


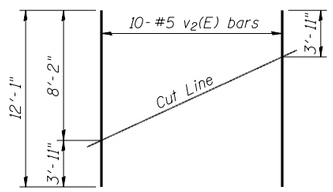
PLAN



ANCHOR BOLT LOCATION DETAIL

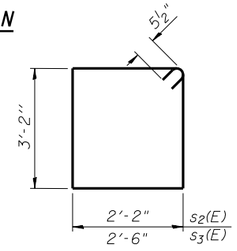
PILE DATA

Type: HP 12x63
Nominal Required Bearing: 449 kips/pile
Factored Resistance Available: 247 kips/pile
Est. Length: 56 ft
No. Production Piles: 7
No. Test Piles: 1 - Stage I

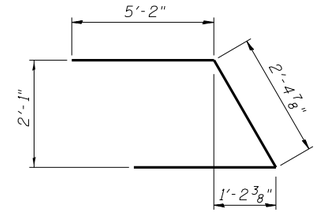


FIELD CUTTING DIAGRAM

Order $v_2(E)$ full length. Cut as shown and use remainder of bars in opposite face.



BARS $s_2(E)$ & $s_3(E)$



BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#7	14'-3"	——
$h_1(E)$	24	#5	14'-3"	——
p(E)	24	#7	22'-4"	——
$s_2(E)$	44	#5	11'-7"	□
$s_3(E)$	4	#5	12'-3"	□
u(E)	12	#6	12'-9"	⌐
$v_1(E)$	90	#5	4'-4"	——
$v_2(E)$	20	#5	12'-1"	——
Structure Excavation		Cu. Yd.	156	
Concrete Structures		Cu. Yd.	19.9	
Reinforcement Bars, Epoxy Coated		Pound	3,860	
Furnishing Steel Piles, HP 12x63		Foot	392	
Driving Piles		Foot	392	
Test Pile, HP 12x63		Each	1	
Concrete Encasement		Cu. Yd.	2.8	
Bar Splicers		Each	12	

For details of Bar Splicers, see sheet 20 of 23.
For details of piles and Concrete Encasement, see sheet 19 of 23.

FILE NAME =	USER NAME =	DESIGNED RJP	REVISED -
		CHECKED ADL	REVISED -
	PLOT SCALE =	DRAWN RJP	REVISED -
	PLOT DATE =	CHECKED ADL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT
STRUCTURE NO. 034-0528
SHEET NO. 17 OF 23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	59
		CONTRACT NO. 72B05		
		ILLINOIS FED. AID PROJECT		

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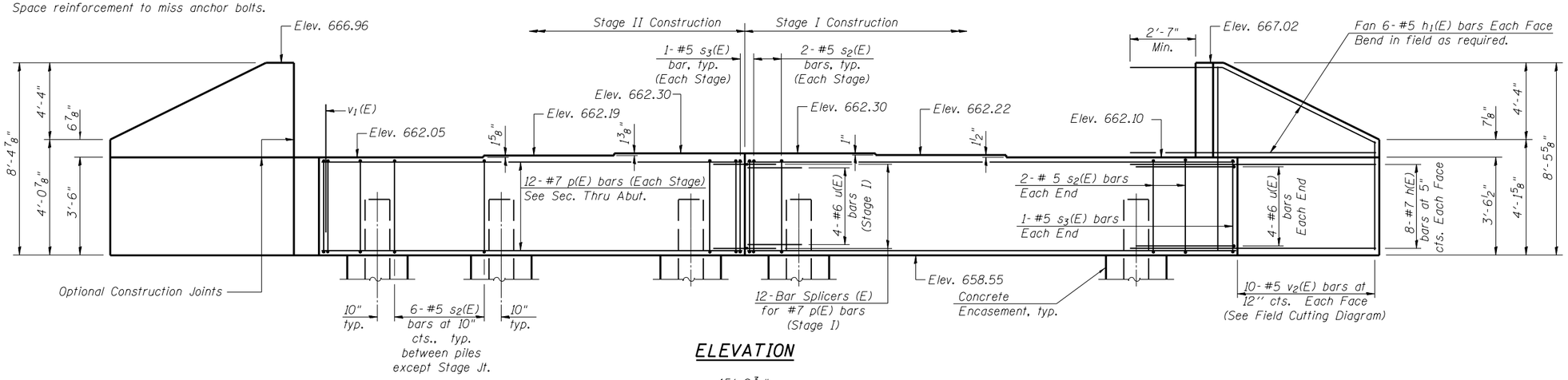
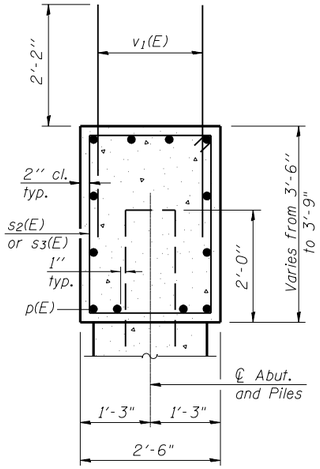
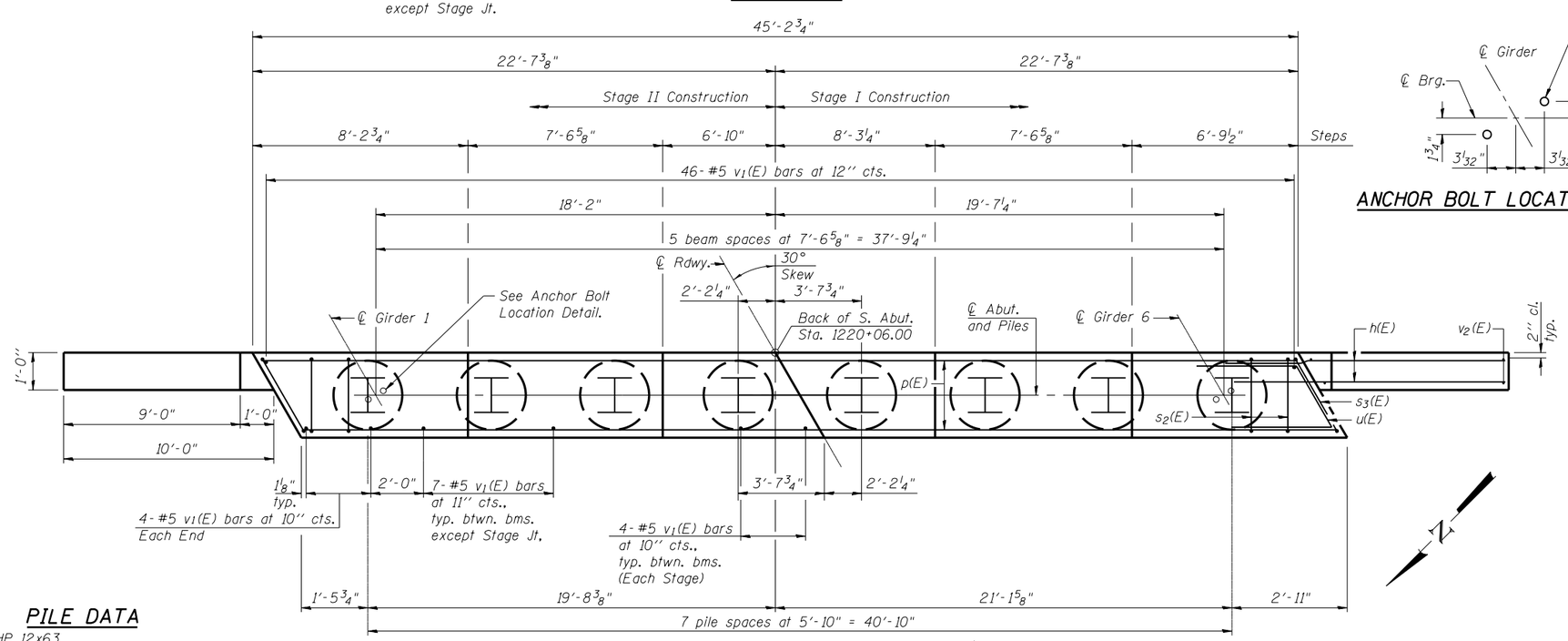
Notes:
Pour steps monolithically with cap.
Space reinforcement to miss anchor bolts.



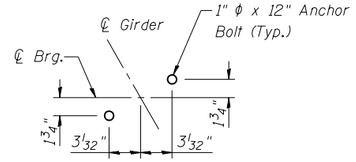
ELEVATION



SEC. THRU ABUT.



PLAN



ANCHOR BOLT LOCATION DETAIL

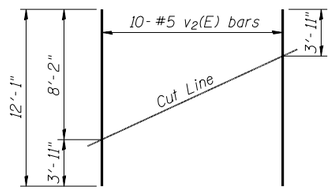
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#7	14'-3"	——
h_1(E)	24	#5	14'-3"	——
p(E)	24	#7	22'-4"	——
s_2(E)	44	#5	11'-7"	⌐
s_3(E)	4	#5	12'-3"	⌐
u(E)	12	#6	12'-9"	⌐
v_1(E)	90	#5	4'-4"	——
v_2(E)	20	#5	12'-1"	——
Structure Excavation		Cu. Yd.	156	
Concrete Structures		Cu. Yd.	19.9	
Reinforcement Bars, Epoxy Coated		Pound	3,860	
Furnishing Steel Piles, HP 12x63		Foot	413	
Driving Piles		Foot	413	
Test Pile, HP 12x63		Each	1	
Concrete Encasement		Cu. Yd.	2.8	
Bar Splicers		Each	12	

For details of Bar Splicers, see sheet 20 of 23.
For details of piles and Concrete Encasement, see sheet 19 of 23.

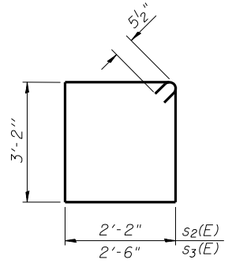
PILE DATA

Type: HP 12x63
Nominal Required Bearing: 449 kips/pile
Factored Resistance Available: 247 kips/pile
Est. Length: 59 ft
No. Production Piles: 7
No. Test Piles: 1 - Stage I

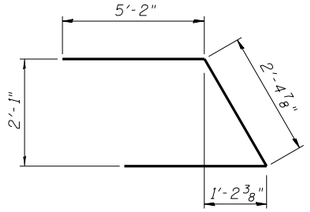


FIELD CUTTING DIAGRAM

Order v_2(E) full length. Cut as shown and use remainder of bars in opposite face.



BARS s_2(E) & s_3(E)



BAR u(E)

FILE NAME =	USER NAME =	DESIGNED RJP	REVISED -
		CHECKED ADL	REVISED -
	PLOT SCALE =	DRAWN RJP	REVISED -
	PLOT DATE =	CHECKED ADL	REVISED -

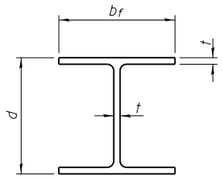
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT
STRUCTURE NO. 034-0528
SHEET NO. 18 OF 23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	60
		CONTRACT NO. 72B05		
	ILLINOIS FED. AID PROJECT			

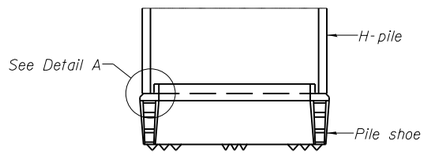
Klingner & Associates P.C.

$FILE$

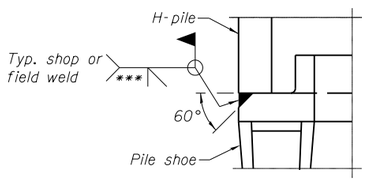


STEEL PILE TABLE

Designation	Depth d	Flange width b_f	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 1/8"	7/16"	18"

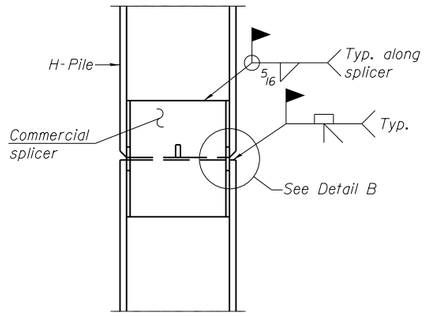


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



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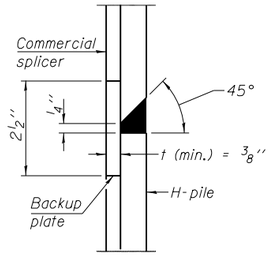
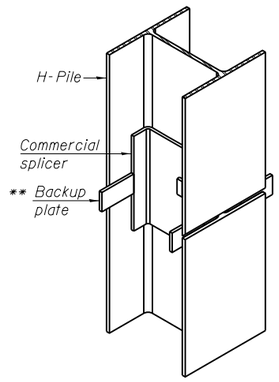
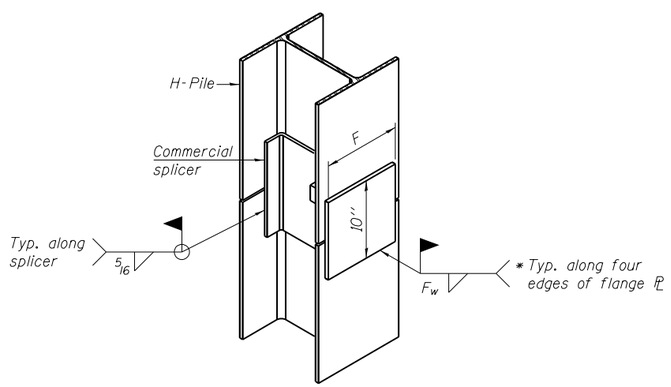


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



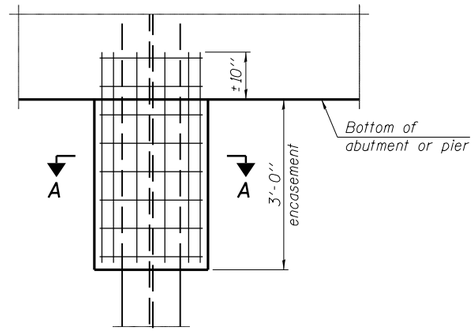
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

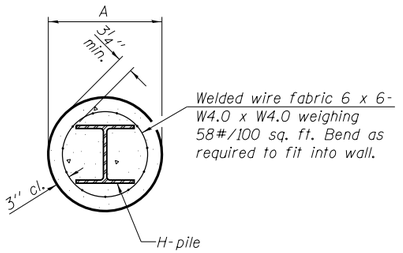
* Interrupt welds 1/4" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16" min.).



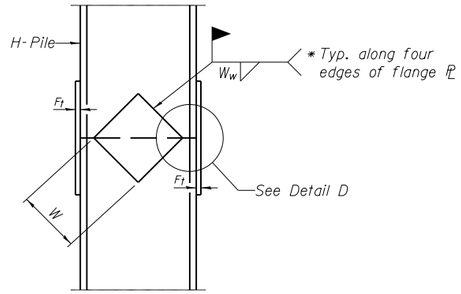
ELEVATION



SECTION A-A

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

PILE ENCASEMENT



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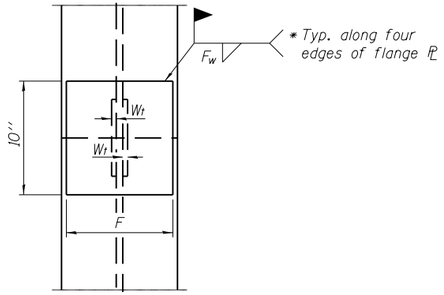
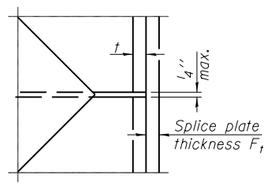


END VIEW



DETAIL D

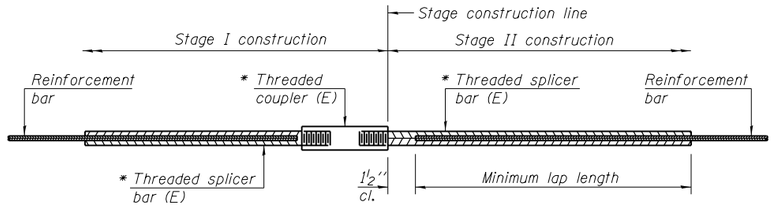
Designation	F	F_f	F_w	W	W_f	W_w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	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.

F-HP 7-1-10

FILE NAME =	USER NAME =	DESIGNED RJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HP PILE DETAILS STRUCTURE NO. 034-0528 SHEET NO. 19 OF 23 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED ADL	REVISED -			685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	61
	PLOT SCALE =	DRAWN RJP	REVISED -						CONTRACT NO. 72B05	
	PLOT DATE =	CHECKED ADL	REVISED -					ILLINOIS	FED. AID PROJECT	



STANDARD BAR SPLICER ASSEMBLY

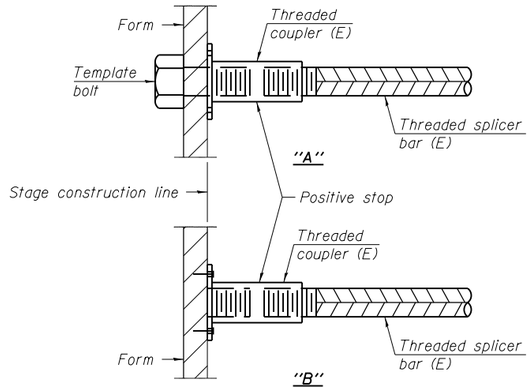
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

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
Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + 1½" + thread length

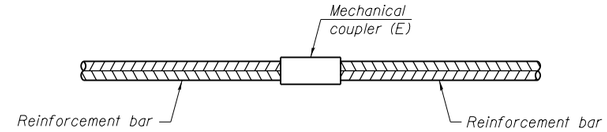
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Bridge Deck	#5	313	Table 3
Bridge Deck	#6	4	Table 3
Diaphragm	#6	16	Table 4
Approach Slab	#4	50	Table 4
Approach Slab	#5	172	Table 3
Abutment Cap	#7	24	Table 4



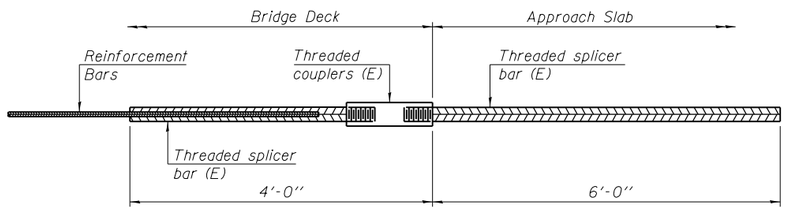
INSTALLATION AND SETTING METHODS

"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.



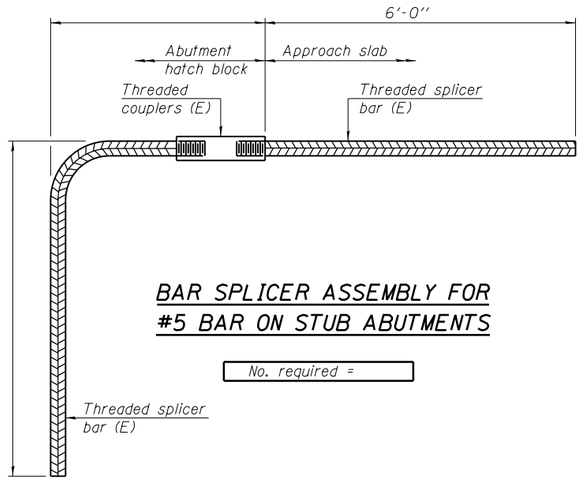
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



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

No. required = 84



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See special provision for Mechanical Splicers.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1 7-1-10

FILE NAME =	USER NAME =	DESIGNED RJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO. 034-0528
		CHECKED ADL	REVISED -		
	PLOT SCALE =	DRAWN RJP	REVISED -		SHEET NO. 20 OF 23 SHEETS
	PLOT DATE =	CHECKED ADL	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	62
		CONTRACT NO. 72B05		
	ILLINOIS FED. AID PROJECT			

$FILE$

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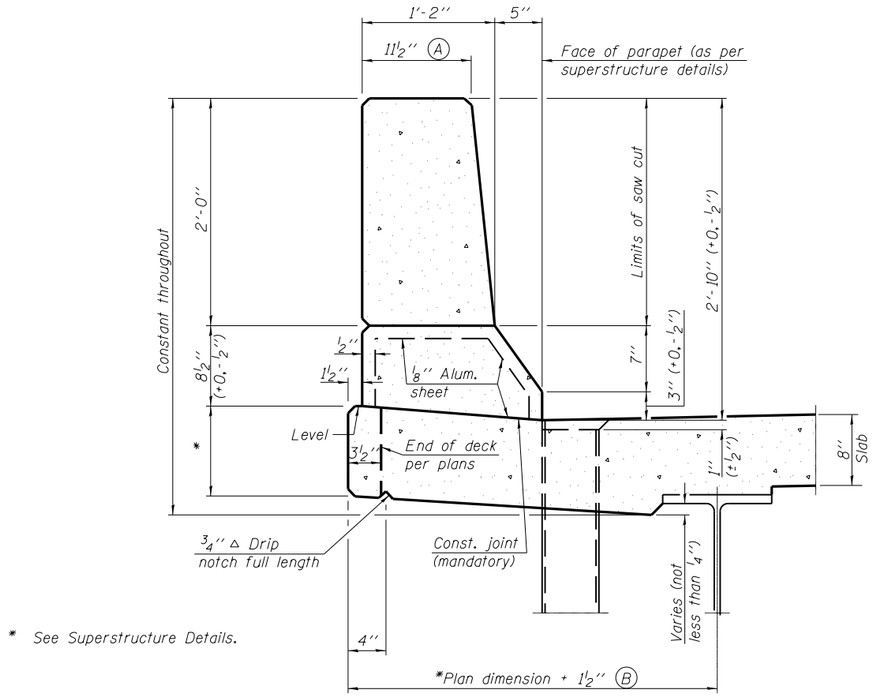
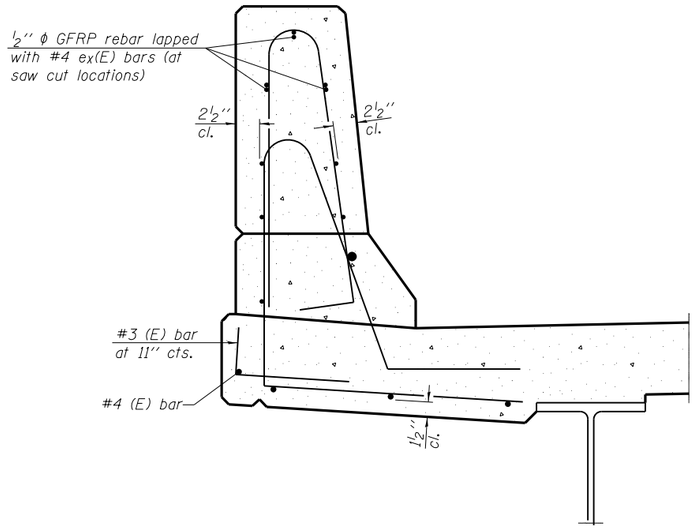


* See Superstructure Details.

SECTION
(Showing dimensions)



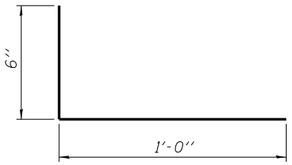
SECTION
(Showing reinforcement clearances for slip forming and additional reinforcement bars)

GENERAL NOTES

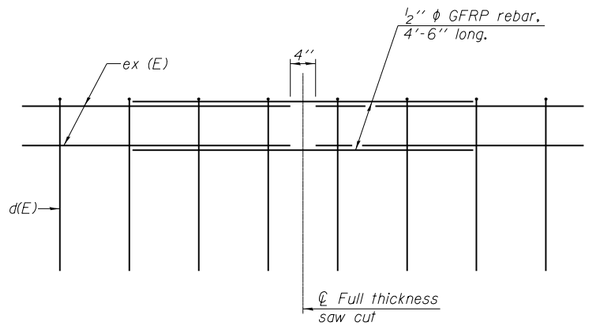
All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. of parapet.

Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler.

Steel superstructure shown. Other superstructure types similar.



#3 (E) BAR



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

SFP-34 7-1-10

FILE NAME =	USER NAME =	DESIGNED RJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONCRETE PARAPET SLIPFORMING OPTION STRUCTURE NO. 034-0528	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED ADL	REVISED -			685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	63
	PLOT SCALE =	DRAWN RJP	REVISED -					CONTRACT NO. 72B05		
	PLOT DATE =	CHECKED ADL	REVISED -		SHEET NO. 21 OF 23 SHEETS			ILLINOIS FED. AID PROJECT		

$FILE$

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Nov-03-2010 11:36:34 AM

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
District 6

Page 1 of 2 | Date 9/29/09

ROUTE FAP 695 | DESCRIPTION IL 9 Over LaHarpe Creek | LOGGED BY M. Tappan

SECTION 118(B-1) | LOCATION SW 1/4, SEC. 25, TWP. 7 N, RNG. 5 W, 4 PM

COUNTY Hancock | DRILLING METHOD HSA | HAMMER TYPE 140# Auto

STRUCT. NO. 034-0528 Pr / 034-0008 Ex
Station 1219+54

BORING NO. NA North Abut.
Station 1219+03
Offset 14.0ft LT
Ground Surface Elev. 664.9 ft

Surface Water Elev. 647.1 ft
Stream Bed Elev. 646.2 ft

Groundwater Elev.:
∇ First Encounter 648.9 ft
▼ Upon Completion Plugged ft
▼ After ___ Hrs. Plugged ft

Description	Elev.	Depth (ft)	Blows /6"	UCS Qu (tsf)	Moist (%)
Greyish Brown Moist CLAY LOAM (Fill)			3, 2, 1	0.6 B	23
Grey Very Moist LOAM (Fill)	661.90	-5	0, 0, 1	0.3 B	18
Grey Very Moist LOAM	658.90		W, O, H	0.2 B	20
Moist		-10	0, 0, 1	0.3 B	16
Grey Moist SILT LOAM with Grey Fine Sand Seams	654.40		0, 1, 2	0.3 S-12	23
Grey Fine to Medium SAND to SANDY GRAVEL Fine Sand	650.90	-15	0, 2, 1		
∇ Medium Sand to Medium Sandy Gravel Free Water			1, 3, 4		
Medium Sandy Gravel		-20	0, 2, 6		
Grey Moist CLAY LOAM (Till)	644.40		0, 1, 3	1.4 B	15
		-25	1, 3, 5	2.0 B	14
Grey Moist CLAY LOAM (Till)		-30	1, 3, 6	2.0 B	14
		-35	2, 4, 7	2.1 B	14
wtih Sandstone Boulder- Very Poor Recovery		-40	13, 28, 29	2.5 E	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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)

File Name S:\SOILS\GINT FILES\HANCOCK\034-0528 IL 9 OVER LAHARPE CR.GPJ Data Template D6TEMPLT.GDT Date Printed 11/30/09
Latitude 40°34.196N Longitude 90°55.263W Datum NAD83 Job Number D-96-532-07

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
District 6

Page 2 of 2 | Date 9/29/09

ROUTE FAP 695 | DESCRIPTION IL 9 Over LaHarpe Creek | LOGGED BY M. Tappan

SECTION 118(B-1) | LOCATION SW 1/4, SEC. 25, TWP. 7 N, RNG. 5 W, 4 PM

COUNTY Hancock | DRILLING METHOD HSA | HAMMER TYPE 140# Auto

STRUCT. NO. 034-0528 Pr / 034-0008 Ex
Station 1219+54

BORING NO. NA North Abut.
Station 1219+03
Offset 14.0ft LT
Ground Surface Elev. 664.9 ft

Surface Water Elev. 647.1 ft
Stream Bed Elev. 646.2 ft

Groundwater Elev.:
∇ First Encounter 648.9 ft
▼ Upon Completion Plugged ft
▼ After ___ Hrs. Plugged ft

Description	Elev.	Depth (ft)	Blows /6"	UCS Qu (tsf)	Moist (%)
Grey Moist CLAY LOAM (Till) *(continued)*					
Very Poor Recovery - Probable boulder fragments in augers		-45	11, 24, 16	2.5 E	
Grey Moist CLAY LOAM (Till)		-50	12, 7, 9	2.8 B	14
		-55	2, 6, 9	2.6 B	14
		-60	9, 6, 7	2.4 B	15
Grey Moist CLAY LOAM (Till) *(continued)*		-65			
Grey Fine SAND	597.40	-70	48, 21, 24		
Grey Moist CLAY LOAM (Till)	592.40	-75			
Boring Completed	584.90	-80	2, 3, 7	2.3 B	19

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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)

File Name S:\SOILS\GINT FILES\HANCOCK\034-0528 IL 9 OVER LAHARPE CR.GPJ Data Template D6TEMPLT.GDT Date Printed 11/30/09
Latitude 40°34.196N Longitude 90°55.263W Datum NAD83 Job Number D-96-532-07

BORING B-NA

$FILE$

FILE NAME =	USER NAME =	DESIGNED RJP	REVISED -
		CHECKED ADL	REVISED -
	PLOT SCALE =	DRAWN RJP	REVISED -
	PLOT DATE =	CHECKED ADL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 034-0528
SHEET NO. 22 OF 23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	64

CONTRACT NO. 72B05

ILLINOIS FED. AID PROJECT

Klingner & Associates P.C.

Nov-03-2010 11:36:53 AM

BORING B-SA

Illinois Department of Transportation — SOIL BORING LOG (Page 1 of 3)

Division of Highways
District 6

Page 1 of 3 | Date 9/15/09

ROUTE FAP 695 DESCRIPTION IL 9 Over LaHarpe Creek LOGGED BY M. Tappan

SECTION 118(B-1) LOCATION SW 1/4, SEC. 25, TWP. 7 N, RNG. 5 W, 4 PM

COUNTY Hancock DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 034-0528 Pr / 034-0008 Ex
Station 1219+54

BORING NO. SA South Abut.
Station 1219+99
Offset 14.0ft RT
Ground Surface Elev. 665.0 ft

Surface Water Elev. 647.1 ft
Stream Bed Elev. 646.2 ft

Groundwater Elev.:
▽ First Encounter 649.5 ft
Upon Completion Dry ft
After ___ Hrs. Plugged ft

Description	Elev. (bottom of layer)	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Brown Moist SILTY CLAY (Fill)			0, 1, 2	0.7 B	25
	662.00				
Brown and Grey Moist CLAY LOAM (Fill)		-5	1, 1, 4	1.3 B	13
	659.50				
Brown and Grey Moist LOAM (Fill)			0, 1, 1	0.5 B	18
	656.50				
Dark Grey Moist SILTY CLAY LOAM		-10	0, 1, 1	0.5 B	26
			0, 0, 1	0.2 B	26
	652.00				
Grey Very Moist LOAM to SAND LOAM		-15	0, 1, 1	0.2 B	23
	▽ 649.50				
Grey Dirty Fine to Medium SAND Free Water			0, 1, 3		
	647.00				
Grey Moist CLAY LOAM (Till)		-20	0, 1, 2	0.9 B	17
Grey Moist CLAY LOAM (Till) *(continued)*			1, 2, 4	2.5 B	14
		-25	1, 1, 3	1.1 B	15
Grey Moist CLAY LOAM (Till)		-30	1, 2, 4	1.6 B	13
		-35	1, 2, 5	2.5 B	15
		-40	1, 3, 7	2.6 B	14

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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)

File Name S:\SOILS\GINT FILES\HANCOCK\034-0528 IL 9 OVER LAHARPE CR.GPJ Data Template D6TEMPLT.GDT Date Printed 11/30/09
Latitude 40°34.182N Longitude 90°55.264W Datum NAD83 Job Number D-96-532-07

Illinois Department of Transportation — SOIL BORING LOG (Page 2 of 3)

Division of Highways
District 6

Page 2 of 3 | Date 9/15/09

ROUTE FAP 695 DESCRIPTION IL 9 Over LaHarpe Creek LOGGED BY M. Tappan

SECTION 118(B-1) LOCATION SW 1/4, SEC. 25, TWP. 7 N, RNG. 5 W, 4 PM

COUNTY Hancock DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 034-0528 Pr / 034-0008 Ex
Station 1219+54

BORING NO. SA South Abut.
Station 1219+99
Offset 14.0ft RT
Ground Surface Elev. 665.0 ft

Surface Water Elev. 647.1 ft
Stream Bed Elev. 646.2 ft

Groundwater Elev.:
▽ First Encounter 649.5 ft
Upon Completion Dry ft
After ___ Hrs. Plugged ft

Description	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Grey Moist CLAY LOAM (Till) *(continued)*	-45	1, 2, 5	2.3 B	14
Grey Moist CLAY LOAM (Till)	-50	1, 3, 7	2.9 B	14
	-55	1, 3, 5	2.2 B	14
	-60	1, 3, 5	2.0 B	14
Grey Moist CLAY LOAM (Till) *(continued)*	-65	1, 3, 6	2.3 B	13
Grey Moist CLAY LOAM (Till)	-70	1, 2, 3	1.5 B	19
	-75	1, 3, 4	1.9 B	19
	-80	1, 4, 4	2.1 B	20

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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File Name S:\SOILS\GINT FILES\HANCOCK\034-0528 IL 9 OVER LAHARPE CR.GPJ Data Template D6TEMPLT.GDT Date Printed 11/30/09
Latitude 40°34.182N Longitude 90°55.264W Datum NAD83 Job Number D-96-532-07

Illinois Department of Transportation — SOIL BORING LOG (Page 3 of 3)

Division of Highways
District 6

Page 3 of 3 | Date 9/15/09

ROUTE FAP 695 DESCRIPTION IL 9 Over LaHarpe Creek LOGGED BY M. Tappan

SECTION 118(B-1) LOCATION SW 1/4, SEC. 25, TWP. 7 N, RNG. 5 W, 4 PM

COUNTY Hancock DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 034-0528 Pr / 034-0008 Ex
Station 1219+54

BORING NO. SA South Abut.
Station 1219+99
Offset 14.0ft RT
Ground Surface Elev. 665.0 ft

Surface Water Elev. 647.1 ft
Stream Bed Elev. 646.2 ft

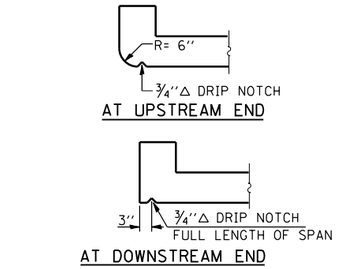
Groundwater Elev.:
▽ First Encounter 649.5 ft
Upon Completion Dry ft
After ___ Hrs. Plugged ft

Description	Elev. (bottom of layer)	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Grey Moist CLAY LOAM (Till) *(continued)*		-85			
	575.00	-90	1, 2, 4	1.4 B	21
Boring Completed					
Refer Station to Centerline of Existing Structure Increasing to the East					
Refer Elevation to Chisled "X" on E. Abutment = 665.0 ft		-95			
		-100			

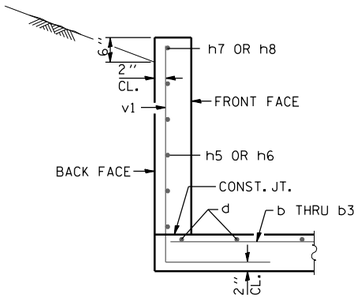
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name S:\SOILS\GINT FILES\HANCOCK\034-0528 IL 9 OVER LAHARPE CR.GPJ Data Template D6TEMPLT.GDT Date Printed 11/30/09
Latitude 40°34.182N Longitude 90°55.264W Datum NAD83 Job Number D-96-532-07

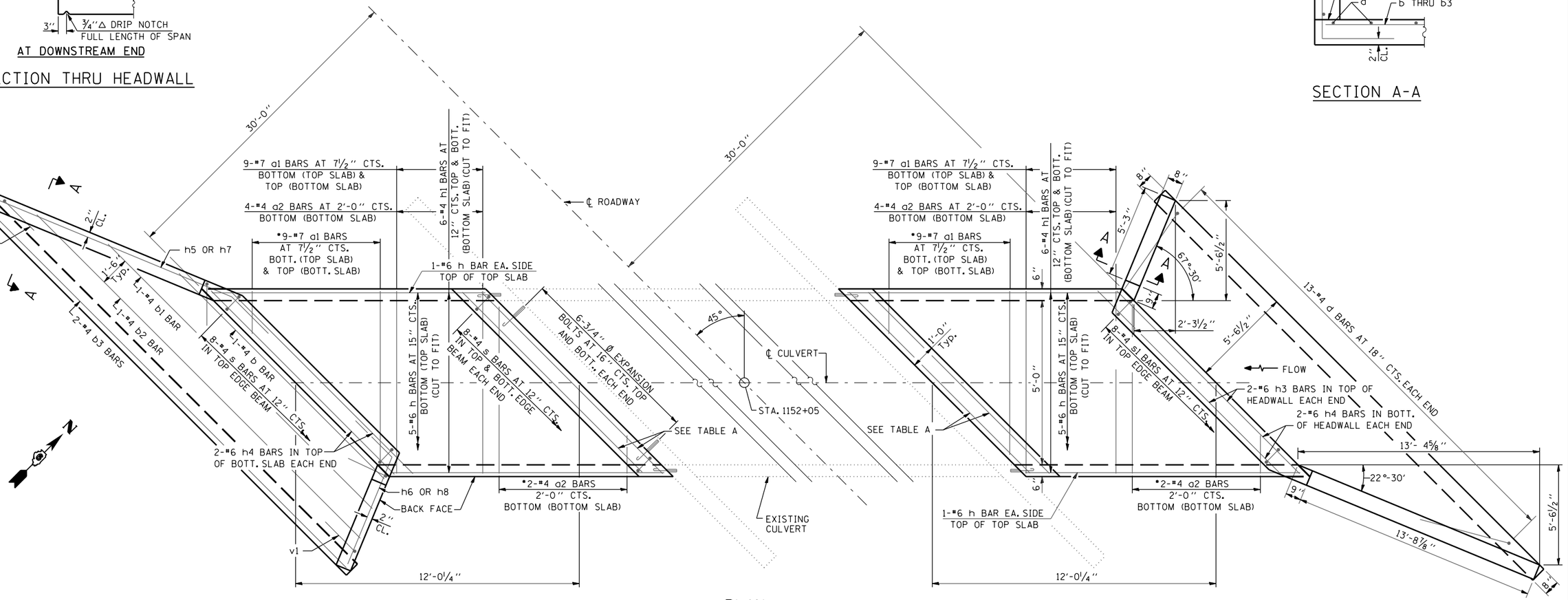
BORING B-SA



SECTION THRU HEADWALL



SECTION A-A



PLAN

QUANTITIES (2 EXTENSIONS)

ITEM	UNIT	QTY.
CONCRETE BOX CULVERTS	CU. YD.	23.0
EXPANSION BOLTS, ¾'' Ø	EA.	36
REINFORCEMENT BARS	POUND	3,010

•ORDER a1 & a2 FULL LENGTH, CUT TO FIT SKEW AND USE REMAINDER IN OPPOSITE END. ALTERNATE HOOK OF a1 BARS FOR PLACEMENT.

TABLE A

LOCATION	NO. OF BARS	BAR
TOP OF TOP EDGE BEAM	2	h4
BOTT. OF TOP EDGE BEAM	2	h4
TOP OF BOTT. EDGE BEAM	2	h4
BOTT. OF BOTT. EDGE BEAM	2	h4

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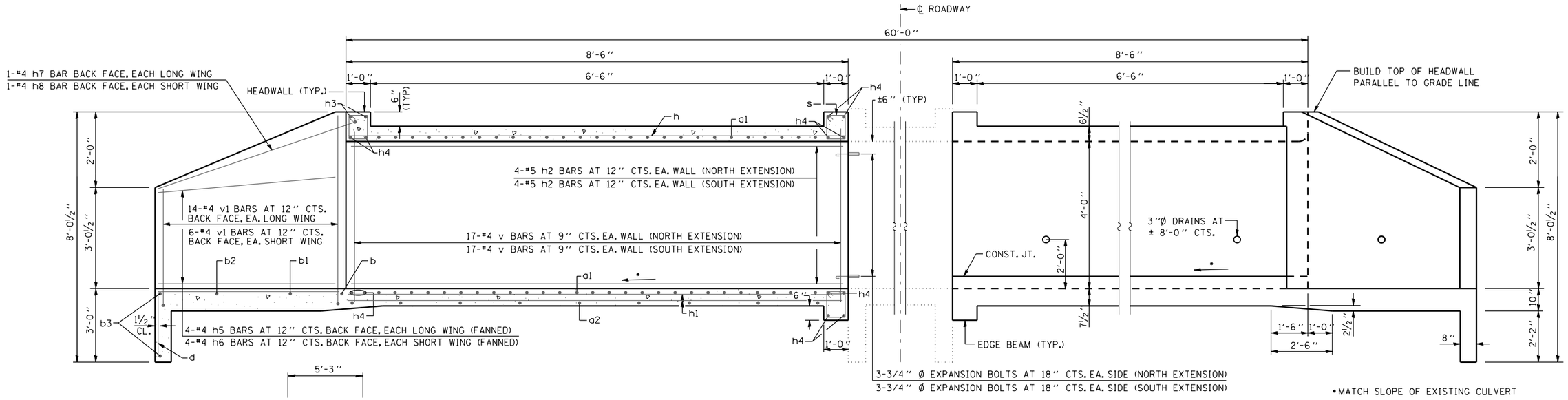
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BOX CULVERT DETAILS
IL 9 STATION 1152+05

SCALE: none | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

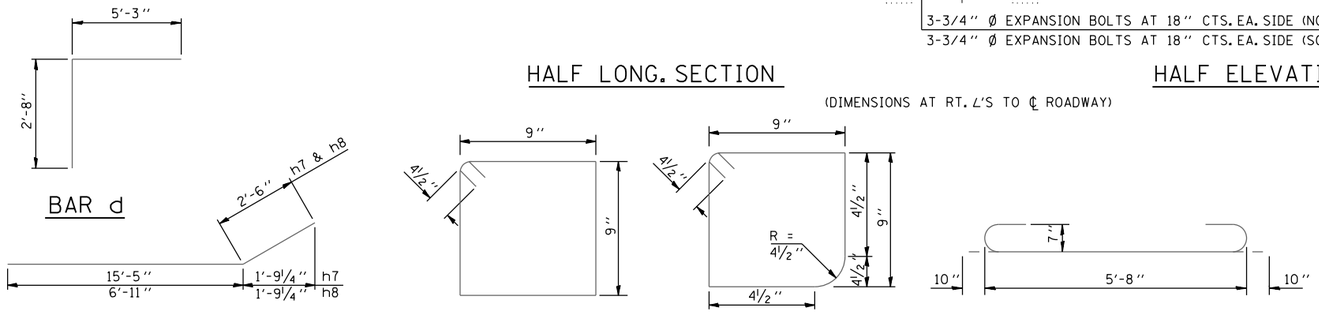
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	66
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



HALF LONG. SECTION

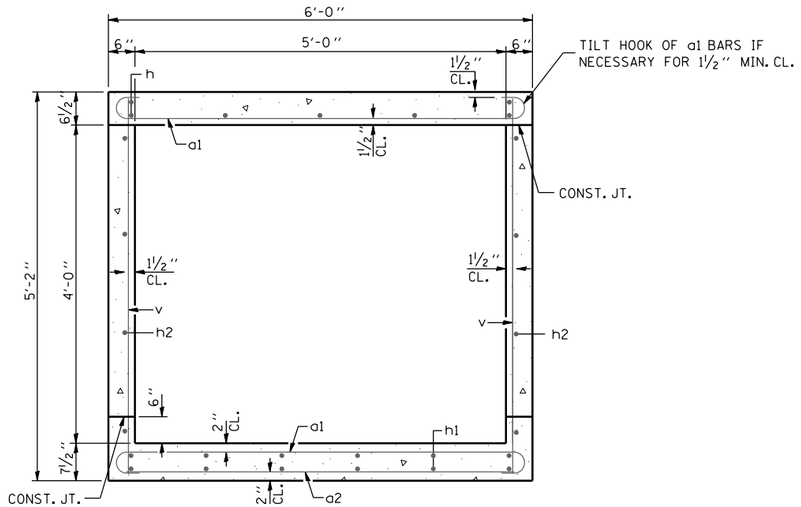
HALF ELEVATION

(DIMENSIONS AT RT. ℄'S TO ℄ ROADWAY)

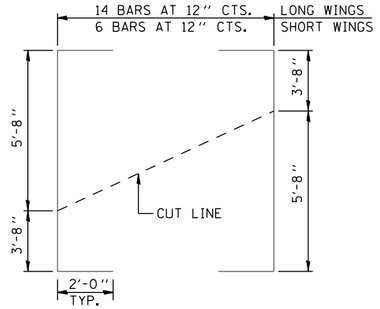


BILL OF MATERIAL

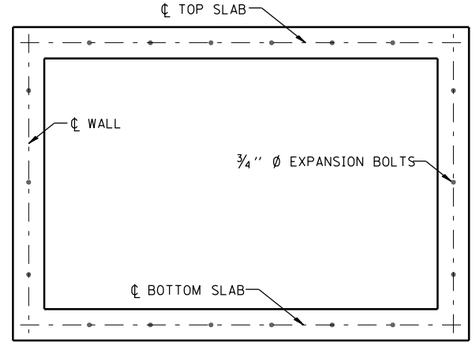
BAR	NO.	SIZE	LENGTH	SHAPE
a1	72	#7	7'-4"	⊂⊃
a2	12	#4	5'-6"	——
b	2	#4	10'-6"	——
b1	2	#4	14'-9"	——
b2	2	#4	19'-0"	——
b3	4	#4	23'-3"	——
d	26	#4	7'-11"	⌐
h	14	#6	11'-8"	——
h1	24	#4	11'-8"	——
h2	16	#5	11'-8"	——
h3	4	#6	6'-6"	——
h4	24	#6	8'-1"	——
h5	8	#4	15'-3"	——
h6	8	#4	6'-6"	——
h7	2	#4	17'-11"	——
h8	2	#4	9'-5"	——
s	40	#4	3'-9"	□
s1	8	#4	3'-7"	□
v	68	#4	4'-10"	——
v1	20	#4	13'-4"	└┘
REINFORCEMENT BARS		POUND	3,010	



SECTION THRU BARREL



FIELD CUTTING DIAGRAM BAR v1



EXPANSION BOLT LOCATION DETAIL

NOTES:

1. EXPOSED EDGES SHALL BE BEVELED ¾".
2. FOR BACKFILLING AND EMBANKMENT, SEE STANDARD SPECIFICATIONS.
3. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR. 60. SEE SPECIAL PROVISIONS.
4. EXPANSION BOLTS SHALL BE ¾" Ø HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE.

DESIGN STRESSES

(NEW CONSTRUCTION)

fy= 60,000 PSI
f'c= 3,500 PSI

LOADING HS 20-44

(NEW CONSTRUCTION)

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		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BOX CULVERT DETAILS
IL 9 STATION 1152+05

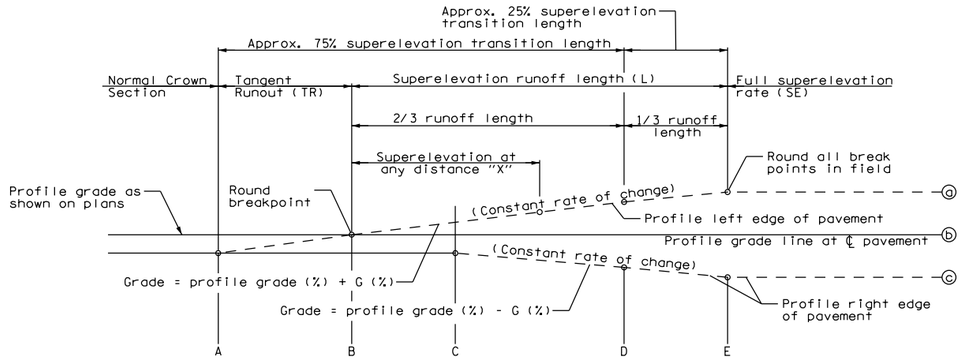
SCALE: none | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	67
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CURVE 216 (LT)			
SECTION	STATION	SLOPE % (LT)	SLOPE % (RT)
A	1105+67.30	-1.50	-1.50
	1105+75.00	-1.50	-1.23
	1106+00.00	-1.50	-0.37
B	1106+10.67	-1.50	0.00
	1106+25.00	-1.50	0.50
	1106+50.00	-1.50	1.36
C	1106+54.04	-1.50	1.50
	1106+75.00	-2.22	2.22
	1107+00.00	-3.09	3.09
	1107+25.00	-3.95	3.95
D	1107+41.76	-4.53	4.53
	1107+50.00	-4.82	4.82
	1107+75.00	-5.68	5.68
	1108+00.00	-6.55	6.55
E	1108+07.30	-6.80	6.80
E	1113+21.60	-6.80	6.80
	1113+25.00	-6.68	6.68
	1113+50.00	-5.82	5.82
	1113+75.00	-4.95	4.95
D	1113+87.14	-4.53	4.53
	1114+00.00	-4.09	4.09
	1114+25.00	-3.22	3.22
	1114+50.00	-2.36	2.36
C	1114+74.86	-1.50	1.50
	1114+75.00	-1.50	1.49
	1115+00.00	-1.50	0.63
B	1115+18.23	-1.50	0.00
	1115+25.00	-1.50	-0.23
	1115+50.00	-1.50	-1.10
A	1115+61.60	-1.50	-1.50

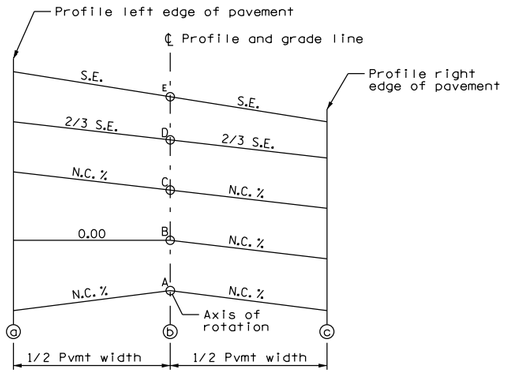
CURVE 212 (RT)			
SECTION	STATION	SLOPE % (LT)	SLOPE % (RT)
A	1169+74.10	-1.50	-1.50
	1169+75.00	-1.46	-1.50
	1170+00.00	-0.47	-1.50
B	1170+12.00	0.00	-1.50
	1170+25.00	0.51	-1.50
C	1170+49.90	1.50	-1.50
	1170+50.00	1.50	-1.50
	1170+75.00	2.49	-2.49
	1171+00.00	3.48	-3.48
	1171+25.00	4.47	-4.47
D	1171+46.73	5.33	-5.33
	1171+50.00	5.46	-5.46
	1171+75.00	6.45	-6.45
	1172+00.00	7.44	-7.44
E	1172+14.10	8.00	-8.00
E	1178+72.30	8.00	-8.00
	1178+75.00	7.89	-7.89
	1179+00.00	6.90	-6.90
	1179+25.00	5.91	-5.91
D	1179+39.67	5.33	-5.33
	1179+50.00	4.92	-4.92
	1179+75.00	3.93	-3.93
	1180+00.00	2.95	-2.95
	1180+25.00	1.96	-1.96
C	1180+36.50	1.50	-1.50
	1180+50.00	0.97	-1.50
B	1180+74.40	0.00	-1.50
	1180+75.00	-0.02	-1.50
	1181+00.00	-1.01	-1.50
A	1181+12.30	-1.50	-1.50

CURVE 210 (LT)			
SECTION	STATION	SLOPE % (LT)	SLOPE % (RT)
A	1182+56.00	-1.50	-1.50
	1182+75.00	-1.50	-1.14
	1183+00.00	-1.50	-0.68
	1183+25.00	-1.50	-0.21
B	1183+36.00	-1.50	0.00
	1183+50.00	-1.50	0.26
	1183+75.00	-1.50	0.73
	1184+00.00	-1.50	1.20
C	1184+16.00	-1.50	1.50
	1184+25.00	-1.67	1.67
D	1184+42.67	-2.00	2.00
	1184+50.00	-2.14	2.14
	1184+75.00	-2.61	2.61
E	1184+96.00	-3.00	3.00
E	1200+68.90	-3.00	3.00
	1200+75.00	-2.89	2.89
	1201+00.00	-2.42	2.42
D	1201+22.23	-2.00	2.00
	1201+25.00	-1.95	1.95
C	1201+48.90	-1.50	1.50
	1201+50.00	-1.50	1.48
	1201+75.00	-1.50	1.01
	1202+00.00	-1.50	0.54
	1202+25.00	-1.50	0.07
B	1202+28.90	-1.50	0.00
	1202+50.00	-1.50	-0.40
	1202+75.00	-1.50	-0.86
	1203+00.00	-1.50	-1.33
A	1203+08.90	-1.50	-1.50



CURVE 517 (LT)			
SECTION	STATION	SLOPE % (LT)	SLOPE % (RT)
A	1221+50.10	-1.50	-1.50
	1221+75.00	-1.50	-1.18
	1222+00.00	-1.50	-0.86
	1222+25.00	-1.50	-0.53
	1222+50.00	-1.50	-0.21
B	1222+66.23	-1.50	0.00
	1222+75.00	-1.50	0.11
	1223+00.00	-1.50	0.44
	1223+25.00	-1.50	0.76
	1223+50.00	-1.50	1.08
	1223+75.00	-1.50	1.40
C	1223+82.36	-1.50	1.50
E	1223+90.10	-1.60	1.60
E	1230+05.10	-1.60	1.60
C	1230+12.84	-1.50	1.50
	1230+25.00	-1.50	1.34
	1230+50.00	-1.50	1.02
	1230+75.00	-1.50	0.70
	1231+00.00	-1.50	0.37
	1231+25.00	-1.50	0.05
B	1231+28.97	-1.50	0.00
	1231+50.00	-1.50	-0.27
	1231+75.00	-1.50	-0.59
	1232+00.00	-1.50	-0.92
	1232+25.00	-1.50	-1.24
A	1232+45.10	-1.50	-1.50

CURVE 203 (LT)			
SECTION	STATION	SLOPE % (LT)	SLOPE % (RT)
A	1253+39.10	-1.50	-1.50
	1253+50.00	-1.50	-1.20
	1253+75.00	-1.50	-0.53
B	1253+94.48	-1.50	0.00
	1254+00.00	-1.50	0.15
	1254+25.00	-1.50	0.83
C	1254+49.86	-1.50	1.50
	1254+50.00	-1.50	1.50
	1254+75.00	-2.18	2.18
	1255+00.00	-2.86	2.86
D	1255+17.56	-3.33	3.33
	1255+25.00	-3.53	3.53
	1255+50.00	-4.21	4.21
	1255+75.00	-4.89	4.89
E	1255+79.10	-5.00	5.00
E	1261+79.90 BK	-5.00	5.00
	1262+00.00 BK	-4.46	4.46
	1262+25.00 BK	-3.78	3.78
D	1262+41.44 BK	-3.33	3.33
	1262+50.00 BK	-3.10	3.10
	1263+50.63 AH	-2.42	2.42
	1263+75.63 AH	-1.75	1.75
C	1263+84.77 AH	-1.50	1.50
	1264+00.63 AH	-1.50	1.07
	1264+25.63 AH	-1.50	0.39
B	1264+40.15 AH	-1.50	0.00
	1264+50.63 AH	-1.50	-0.28
	1264+75.63 AH	-1.50	-0.96
A	1264+95.53 AH	-1.50	-1.50



AXIS OF ROTATION ABOUT CENTERLINE OF TRAVELED WAY – TWO LANE ROADS

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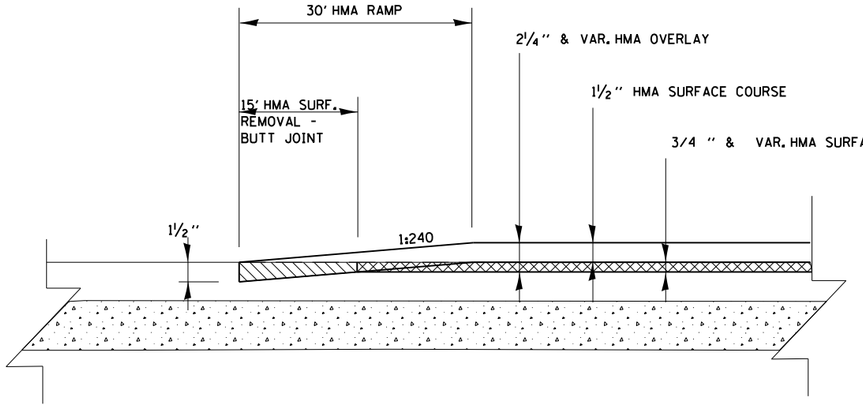
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = Nov-03-2010 11:37:23AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERELEVATION DETAILS

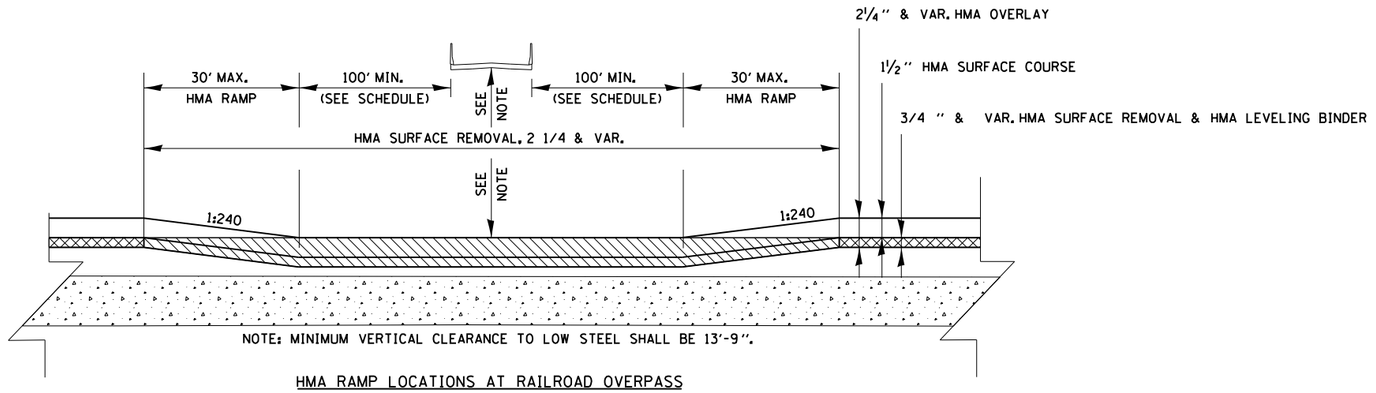
SCALE: none | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	68
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



BUTT JOINT DETAIL

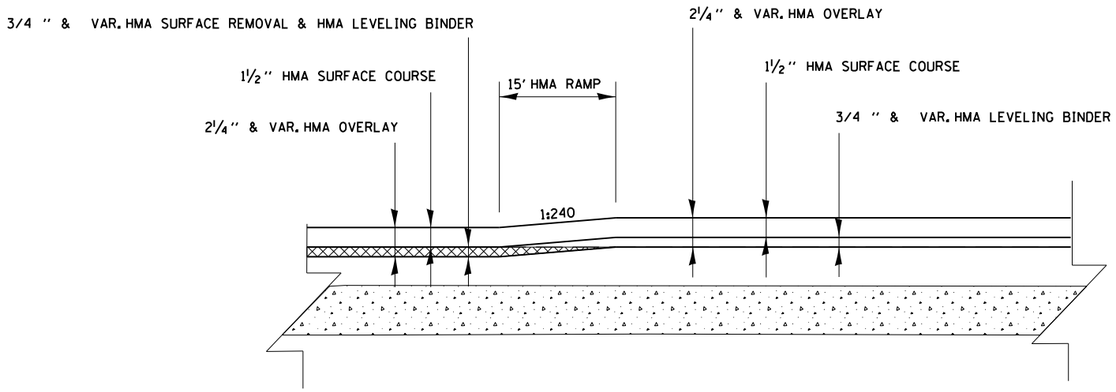
STA. 1094+97.45 TO STA. 1095+27.45 (IL 9)
STA. 0+20.00 TO STA 0+50.00 (IL 9)



NOTE: MINIMUM VERTICAL CLEARANCE TO LOW STEEL SHALL BE 13'-9".

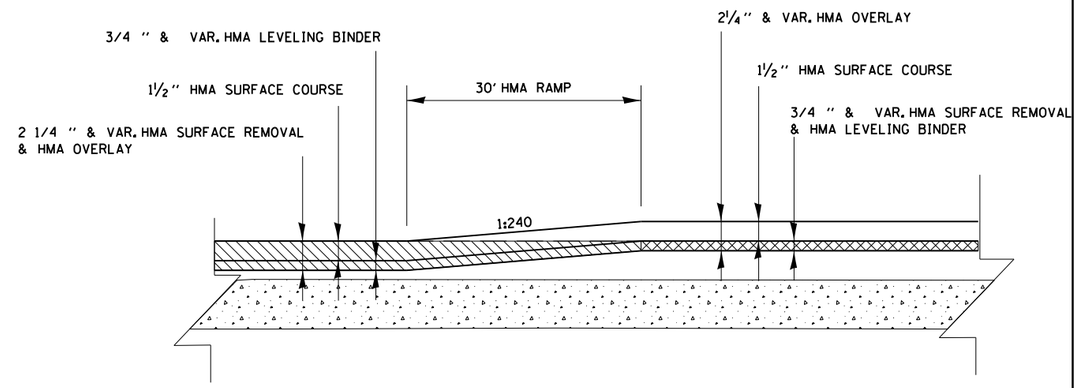
HMA RAMP LOCATIONS AT RAILROAD OVERPASS

STA. 1182+75.0 (INTERSECTION OF IL 9 & RAILROAD OVERPASS)



HMA RAMP LOCATIONS

STA. 1214+80.00 TO STA. 1214+95.00 (IL 9)
STA. 1224+05.00 TO STA. 1224+20.00 (IL 9)



HMA RAMP LOCATIONS

STA. 1175+35.00 TO STA. 1175+65.00 (IL 9)
STA. 1186+35.00 TO STA. 1186+65.00 (IL 9)
STA. 1232+65.00 TO STA. 1232+95.00 (IL 9)
STA. 1238+45.00 TO STA. 1238+75.00 (IL 9)

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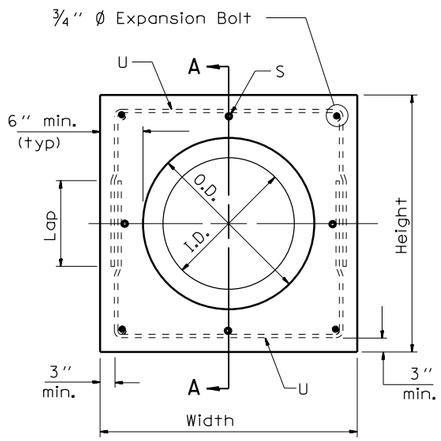
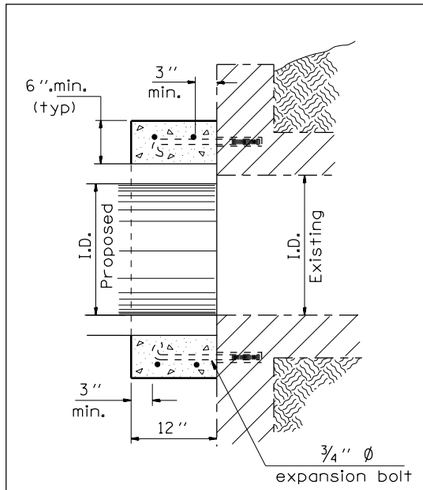
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HMA RAMP DETAILS

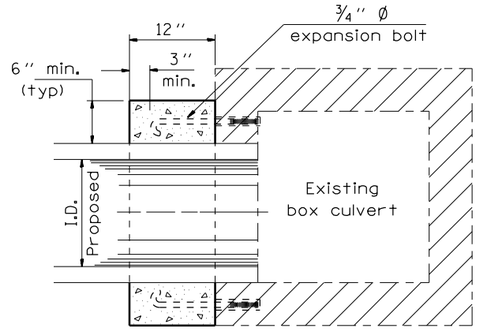
SCALE: none | SHEET NO. 1 OF 4 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	69
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



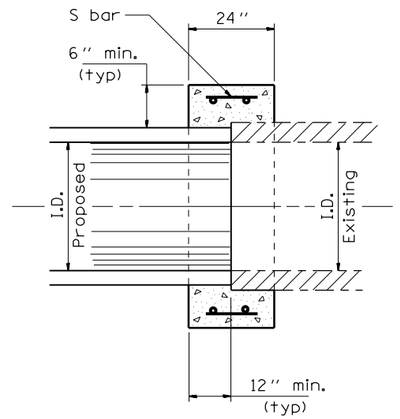


Section Type A
(Box end extension)

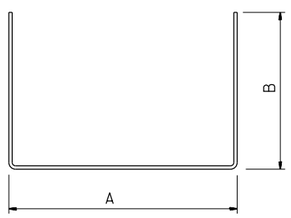


Section Type B
(Pipe in side extension)

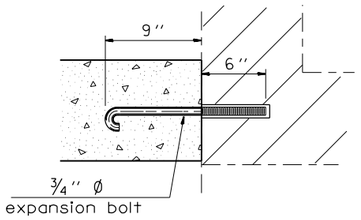
Section A - A



Section Type C
(Pipe end to pipe end extension
No expansion bolts required)



#5 U - bar



Expansion Bolt Detail

Notes:

1. Expansion bolts shall consist of self drilling expansion shields and ¾" Ø hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete. Minimum Certified Proof Load - 2 ton

2. Use minimum of 1 (one) expansion bolt at each corner.

Location	Station	Section Type	Skew	Existing Culvert	Proposed Culvert		Collar		Reinforcement Bars									Expansion Bolts ¾"	Concrete Collar
									S bar			U bar					(lb)		
				Size	I.D.	O.D.	Height	Width	No.	Size	Length	No.	Size	A	B	Lap	Length		Each	cu yd
IL 9	1226+35 (LT)	A	0°	2'x2'	30"	37"	49"	49"	-	-	-	4	#5	43"	30.5"	18	104"	36.2	8	0.34
IL 9	1226+35 (RT)	A	0°	2'x2'	30"	37"	49"	49"	-	-	-	4	#5	43"	30.5"	18	104"	36.2	8	0.34
IL 9	1246+50 (LT)	A	0°	2'x2'	30"	37"	49"	49"	-	-	-	4	#5	43"	30.5"	18	104"	36.2	8	0.34
IL 9	1246+50 (RT)	A	0°	2'x2'	30"	37"	49"	49"	-	-	-	4	#5	43"	30.5"	18	104"	36.2	8	0.34
IL 9	1187+65 (RT)	C	0°	30"	30"	37"	49"	49"	8	#5	18"	4	#5	43"	30.5"	18	104"	48.7	-	0.87

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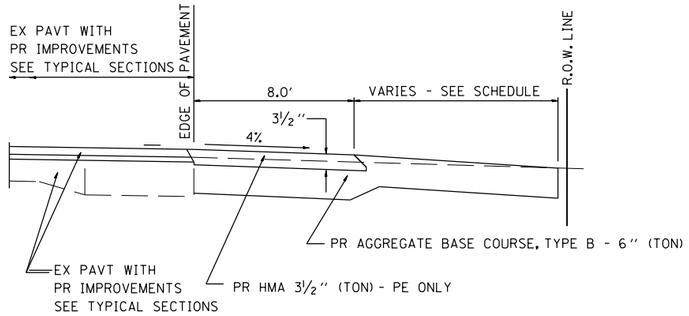
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

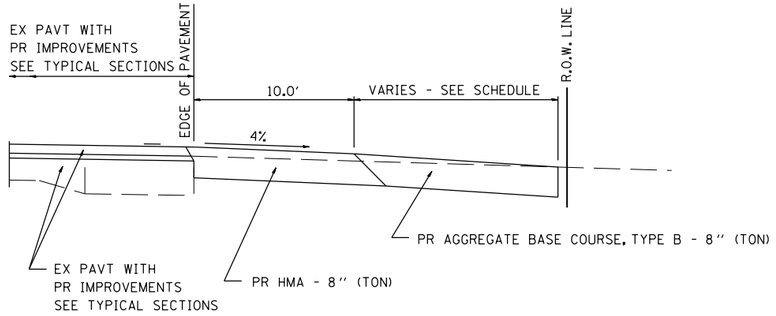
CONCRETE COLLAR DETAILS

SCALE: none | SHEET NO. 2 OF 4 SHEETS | STA. | TO STA.

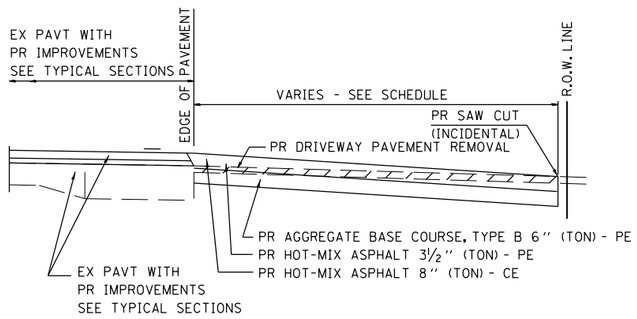
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	70
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



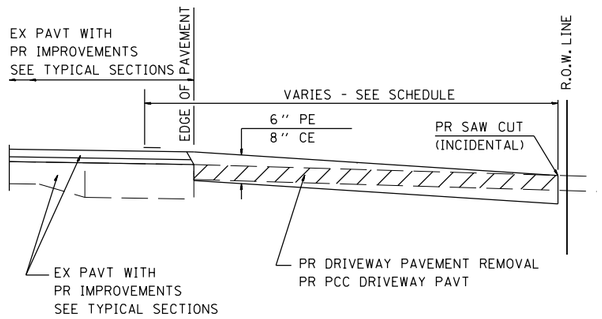
SECTION A-A FOR EX EARTH/AGGREGATE FE & PE



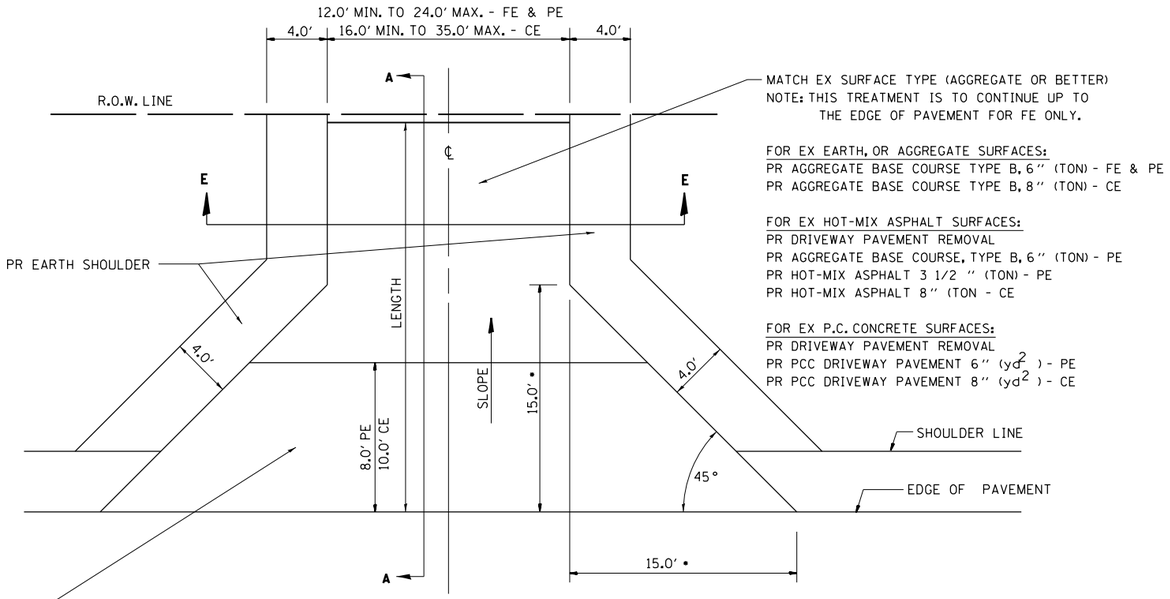
SECTION A-A FOR EX EARTH/AGGREGATE CE



SECTION A-A FOR EX HOT-MIX ASPHALT PE & CE



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



FOR EX EARTH, OR AGGREGATE SURFACES:
PR AGGREGATE BASE COURSE TYPE B, 6" (TON) - FE & PE
PR AGGREGATE BASE COURSE TYPE B, 8" (TON) - CE

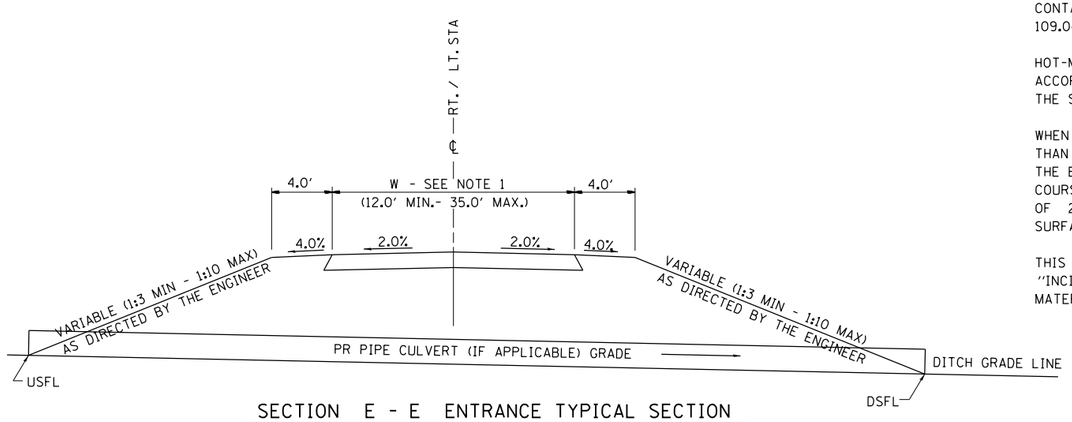
FOR EX HOT-MIX ASPHALT SURFACES:
PR DRIVEWAY PAVEMENT REMOVAL
PR AGGREGATE BASE COURSE, TYPE B, 6" (TON) - PE
PR HOT-MIX ASPHALT 3 1/2 " (TON) - PE
PR HOT-MIX ASPHALT 8" (TON - CE

FOR EX P.C. CONCRETE SURFACES:
PR DRIVEWAY PAVEMENT REMOVAL
PR PCC DRIVEWAY PAVEMENT 6" (yd^2) - PE
PR PCC DRIVEWAY PAVEMENT 8" (yd^2) - CE

• USE 7.0' WHERE 15.0' WILL NOT FIT.

FOR EX EARTH, AGGREGATE, OR HOT-MIX ASPHALT SURFACES:
PR DRIVEWAY PAVEMENT REMOVAL (IF APPLICABLE)
PR AGGREGATE BASE COURSE TYPE B 6" (TON) - FE
PR AGGREGATE BASE COURSE TYPE B, 6" (TON) &
PR HOT-MIX ASPHALT 3½" (TON) - PE
PR HOT-MIX ASPHALT 8" (TON) - CE

FOR P.C. CONCRETE SURFACES:
PR DRIVEWAY PAVEMENT REMOVAL
PR PCC DRIVEWAY PAVT 6" (yd^2) - PE
PR PCC DRIVEWAY PAVT 8" (yd^2) - CE



SECTION E - E ENTRANCE TYPICAL SECTION

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

GENERAL NOTES:

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

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

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

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

WHEN THE HOT-MIX ASPHALT PROPOSED FOR THE IMPROVEMENT IS THICKER THAN 3 INCHES AND REQUIRE PLACEMENT IN MORE THAN ONE LIFT. THE BOTTOM LIFT(S) SHALL MEET THE REQUIREMENTS OF HOT-MIX ASPHALT BASE COURSE IN SECTION 406 OF THE STANDARD SPECIFICATIONS AND THE TOP LIFT OF 2 INCHES SHALL MEET THE REQUIREMENTS OF HOT-MIX ASPHALT SURFACE COURSE, MIXTURE "C".

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR "INCIDENTAL HOT-MIX ASPHALT SURFACING" WHICH SHALL INCLUDE ALL MATERIALS, EQUIPMENT, AND LABOR INVOLVED.

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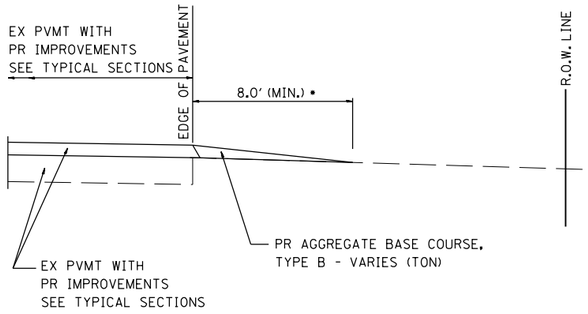
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

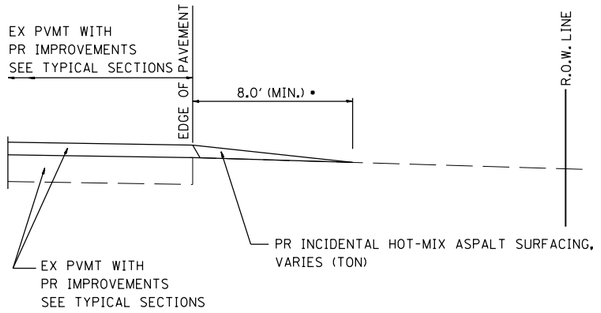
ENTRANCE DETAILS
(STATIONS 1222+40 LT & 1225+05 RT)

SCALE: none | SHEET NO. 3 OF 4 SHEETS | STA. | TO STA.

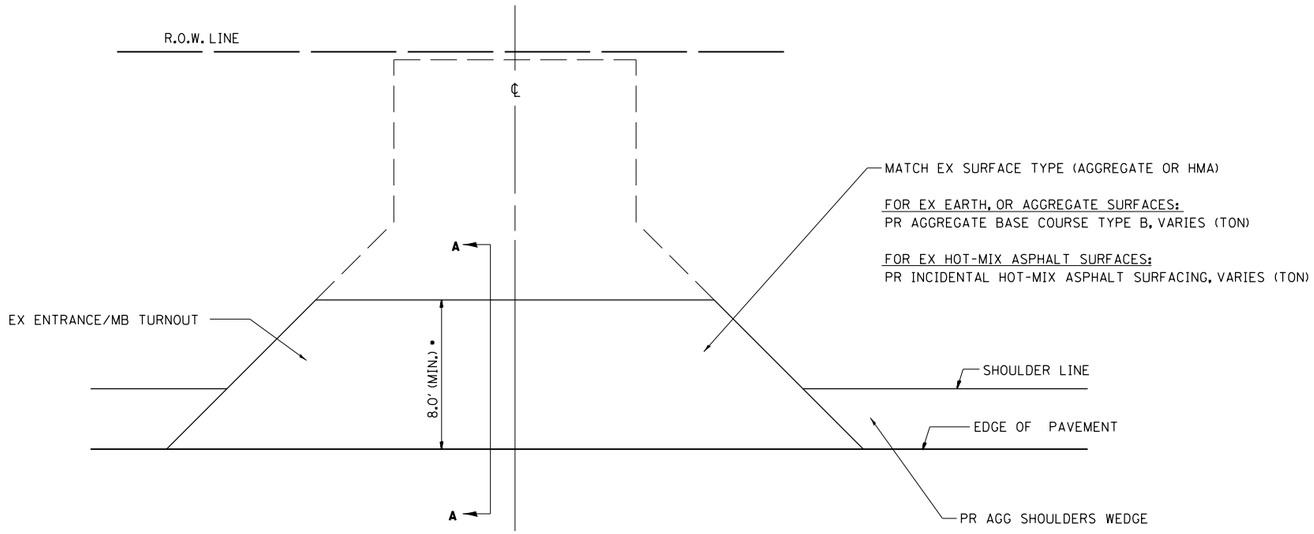
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	71
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SECTION A-A FOR EX EARTH/AGGREGATE



SECTION A-A FOR EX HOT-MIX ASPHALT



• TO BACK OF RADIUS RETURNS ON TOWNSHIP ROADS.

GENERAL NOTES:

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES ON THIS PROJECT.

THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN.

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

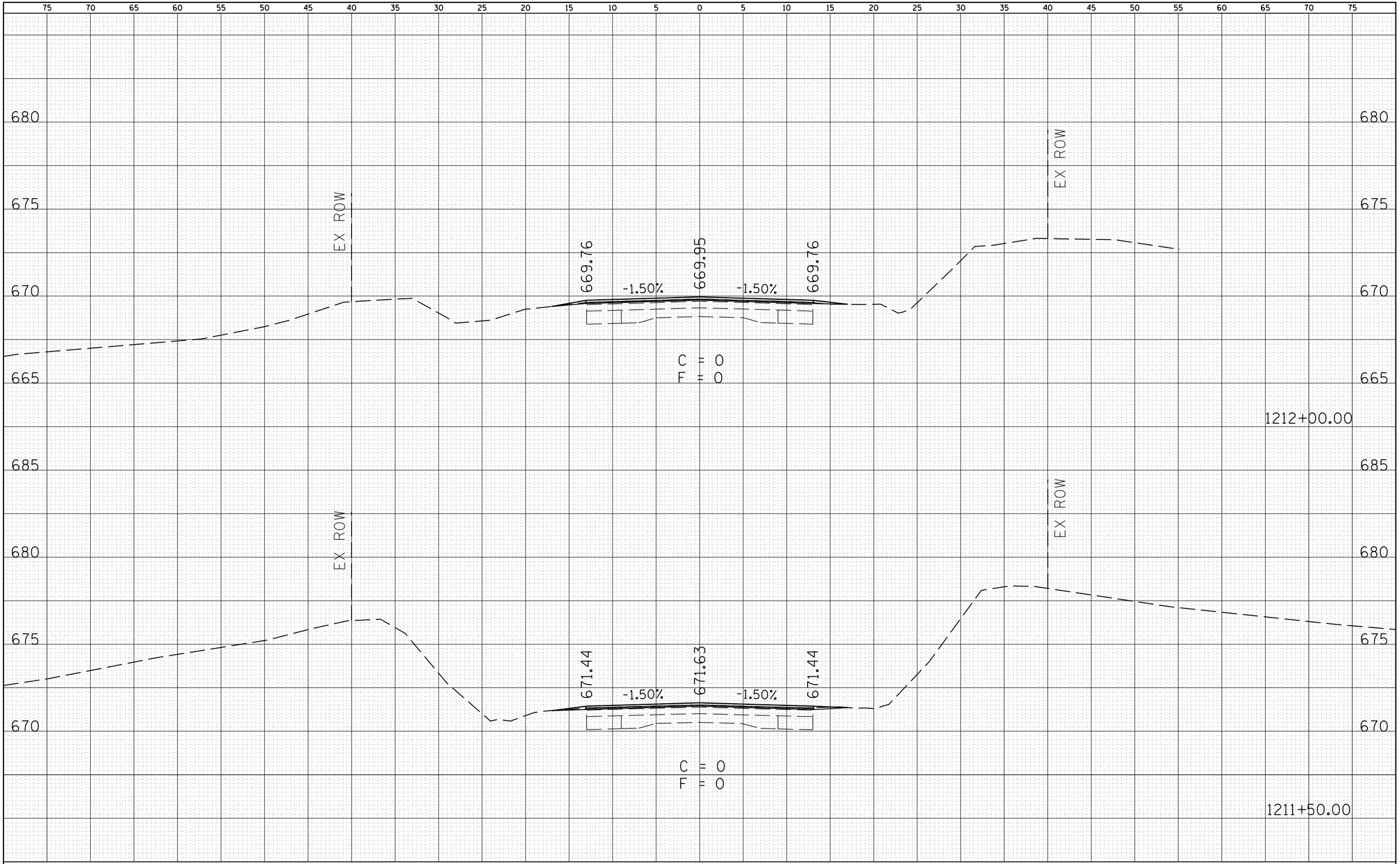
ENTRANCE DETAILS

SCALE: none | SHEET NO. 4 OF 4 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	72
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H 1"=2.5'V | SHEET NO. 1 OF 29 SHEETS | STA. 1211+50.00 STA. 1212+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	73
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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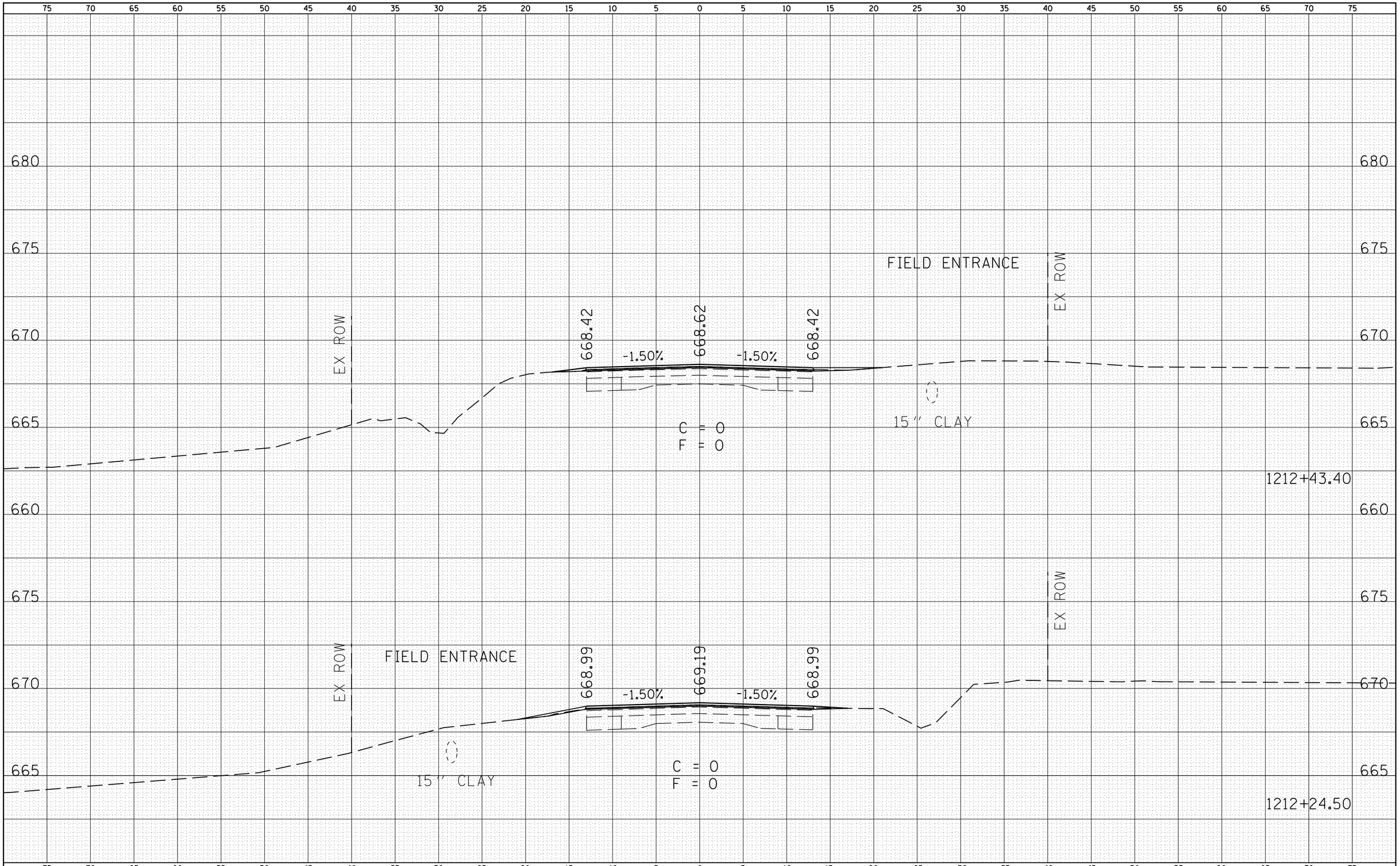

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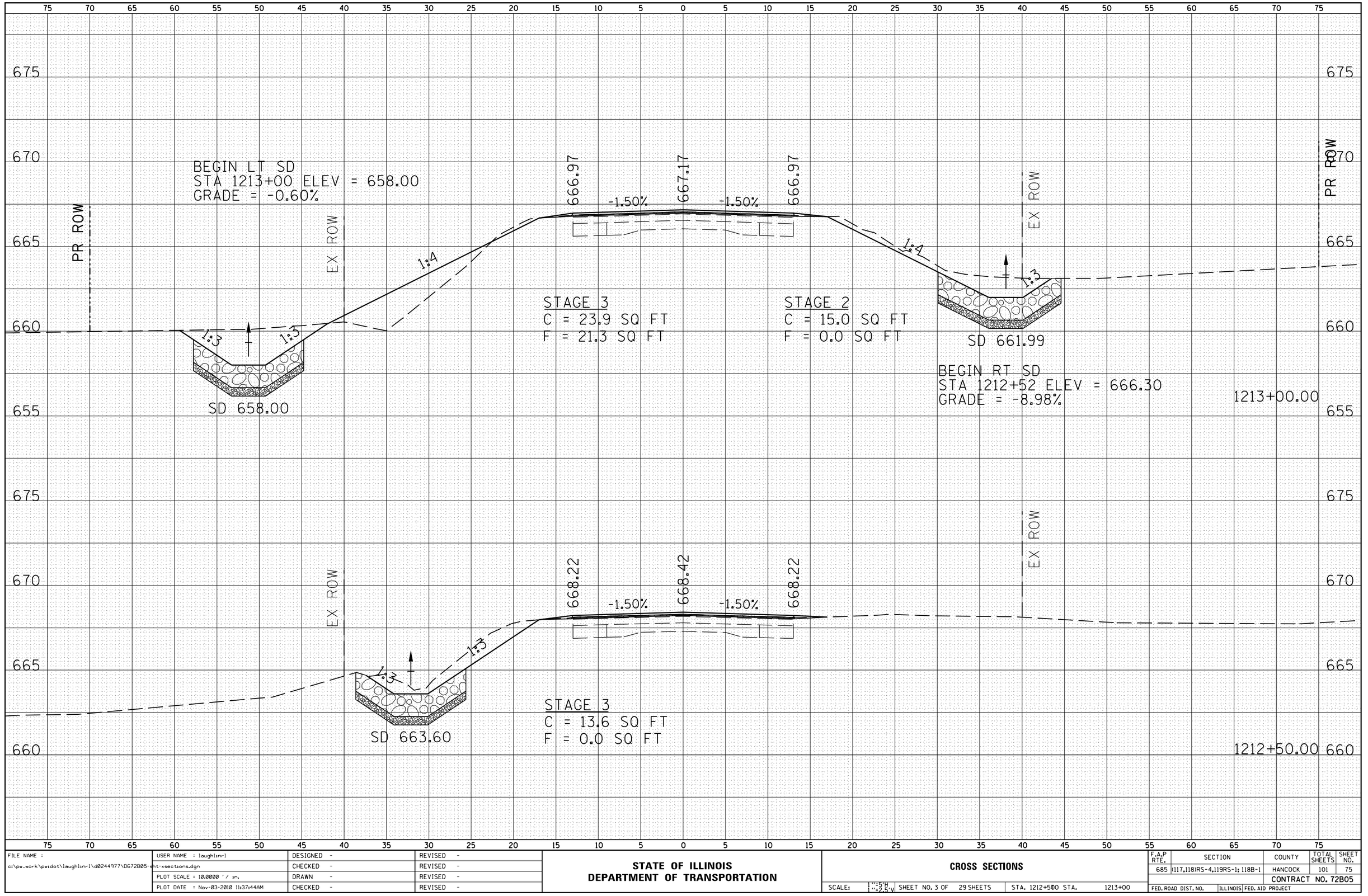
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H 1"=2.5'V | SHEET NO. 2 OF 29 SHEETS | STA. 1212+24.50 STA. 1212+43.4

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	74
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

BY	DATE

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

BY	DATE

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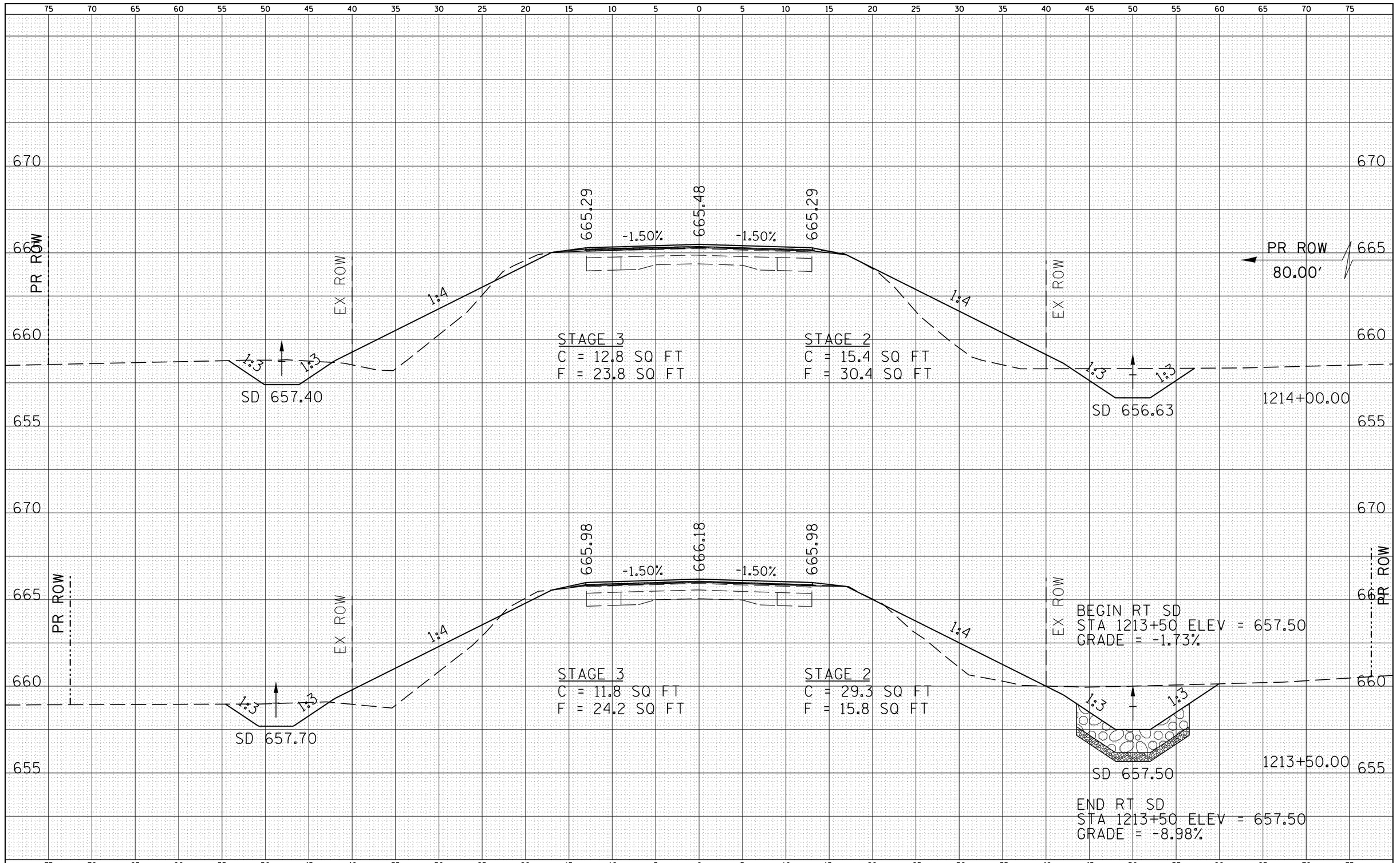
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H 1"=2.5'V | SHEET NO. 3 OF 29 SHEETS | STA. 1212+500 STA. 1213+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	75
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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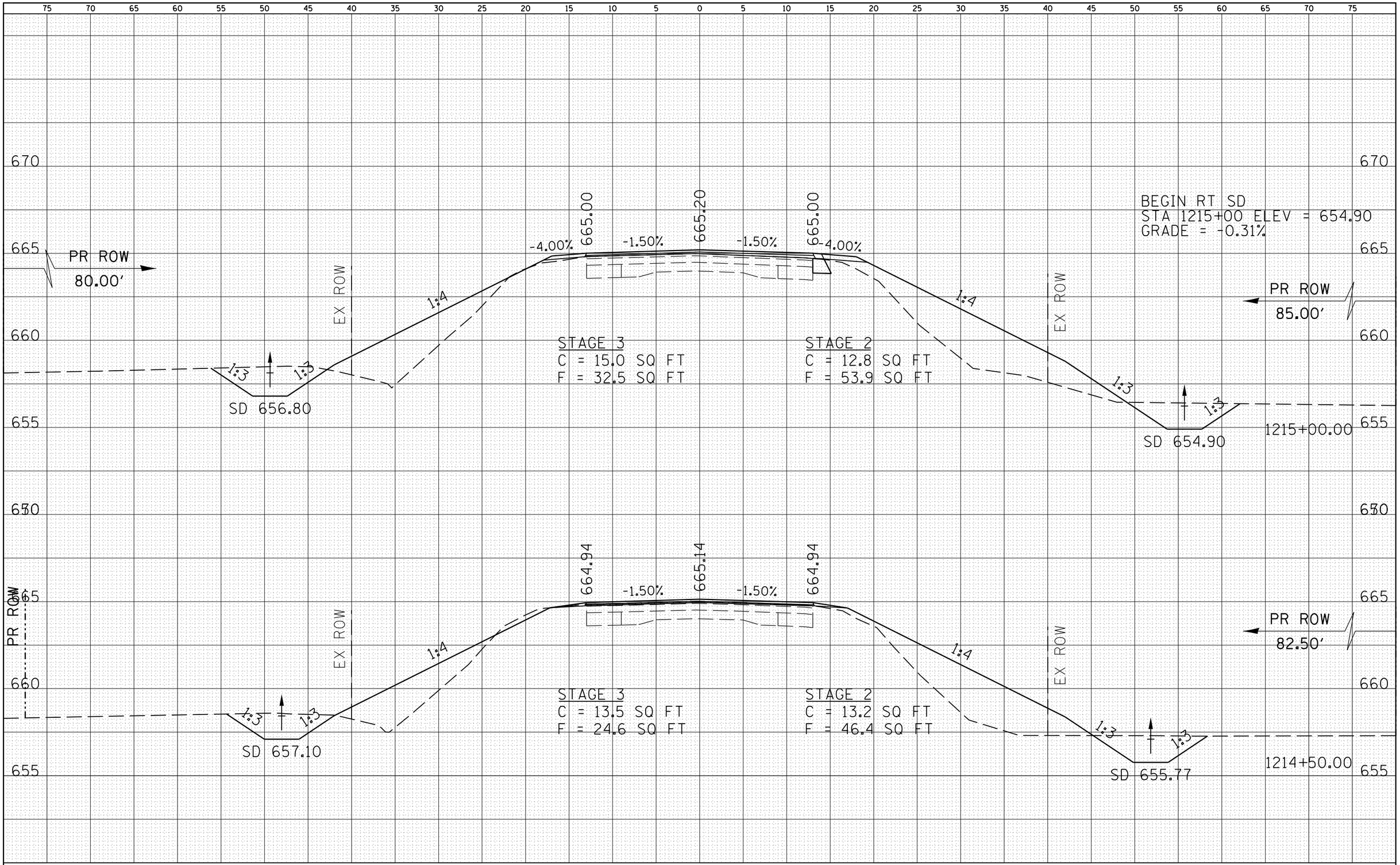
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H, 1"=2.5'V | SHEET NO. 4 OF 29 SHEETS | STA. 1213+500 STA. 1214+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	76
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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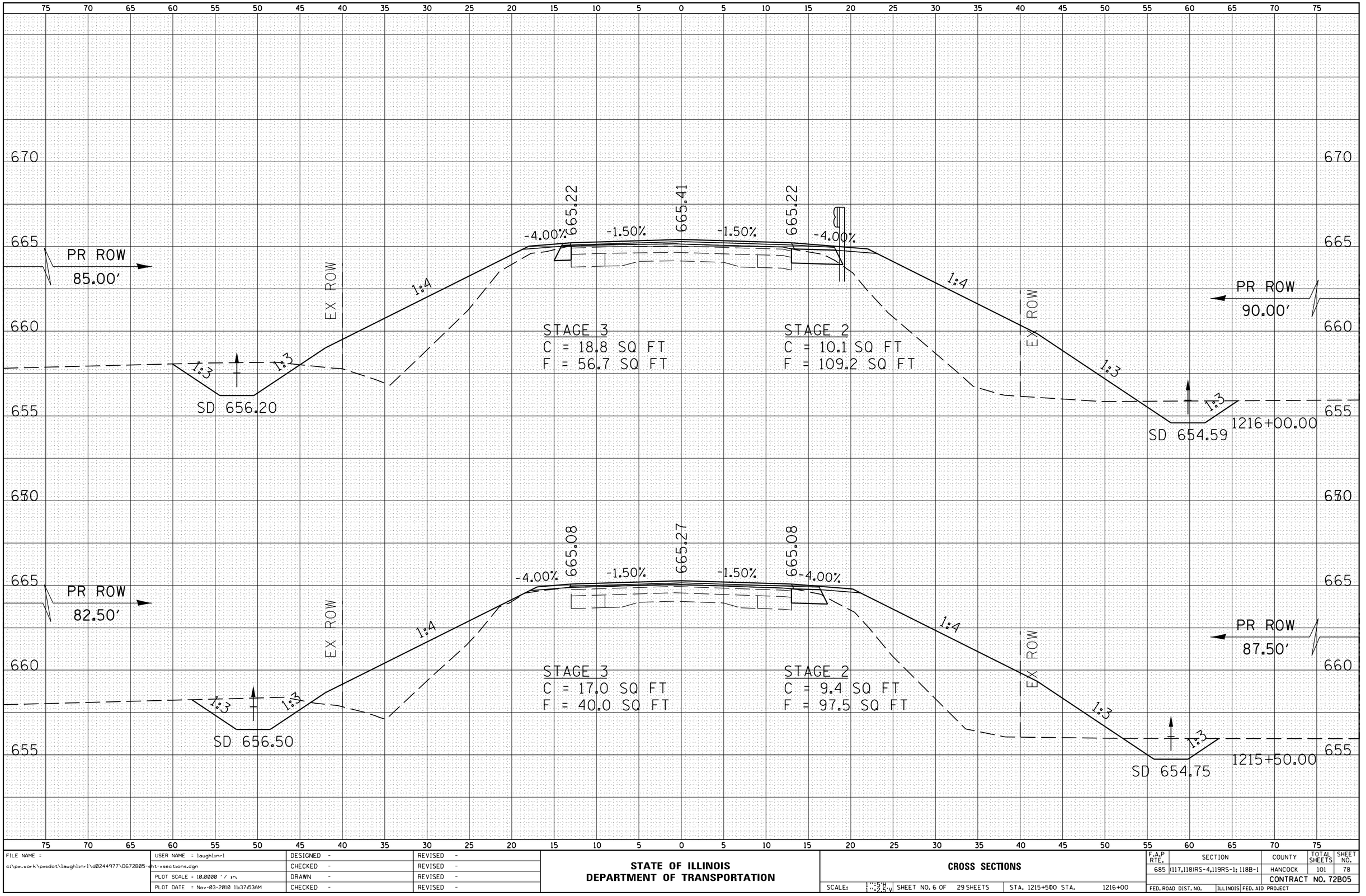
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H, 1"=2.5'V | SHEET NO. 5 OF 29 SHEETS | STA. 1214+500 STA. 1215+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	77
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY NOTE BOOK

NO.	BY	DATE
	SURVEYED	
	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY NOTE BOOK

NO.	BY	DATE
	SURVEYED	
	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

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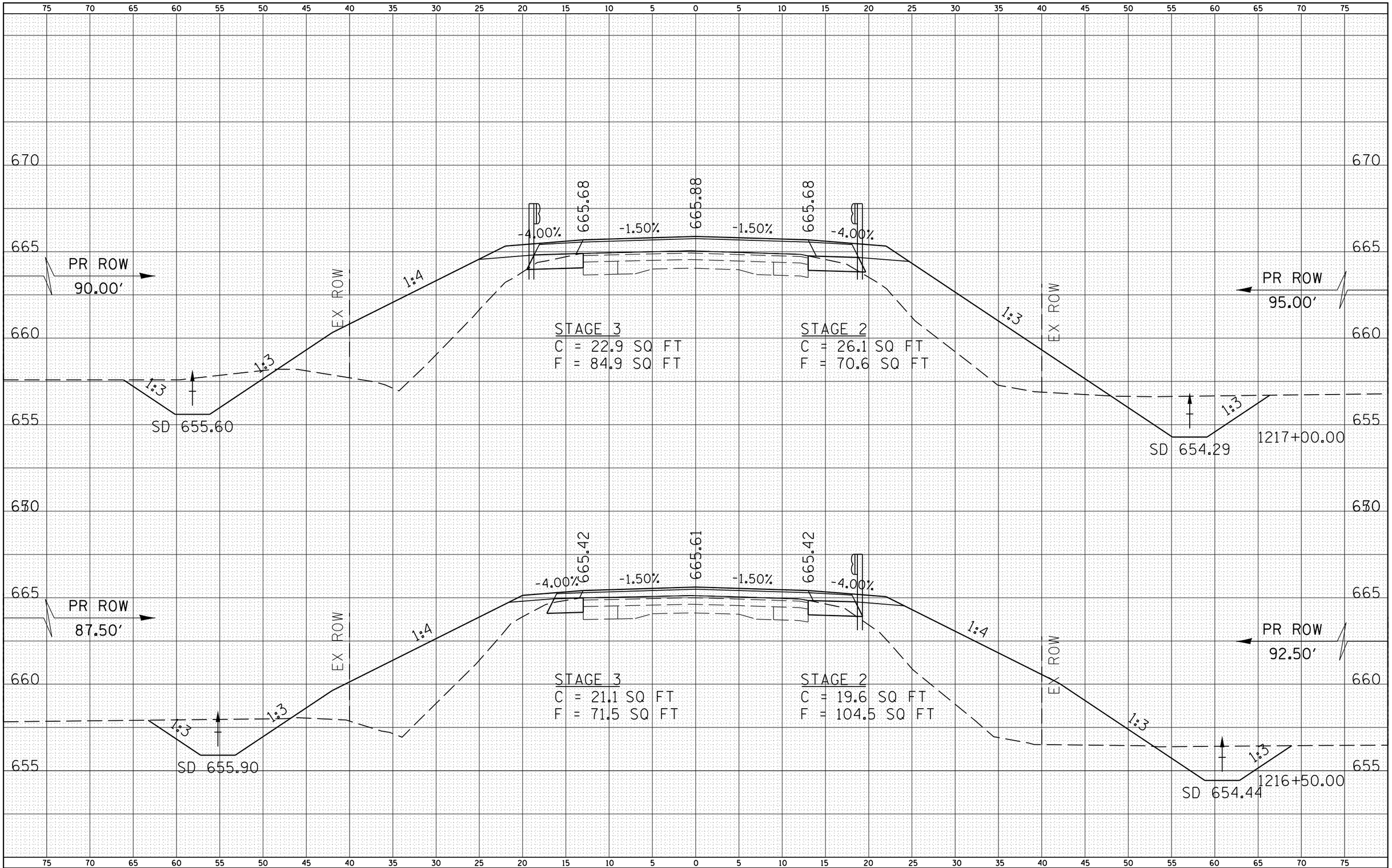
	PLOT DATE = Nov-03-2010 11:37:53AM	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H, 1"=2.5'V | SHEET NO. 6 OF 29 SHEETS | STA. 1215+500 STA. 1216+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	78
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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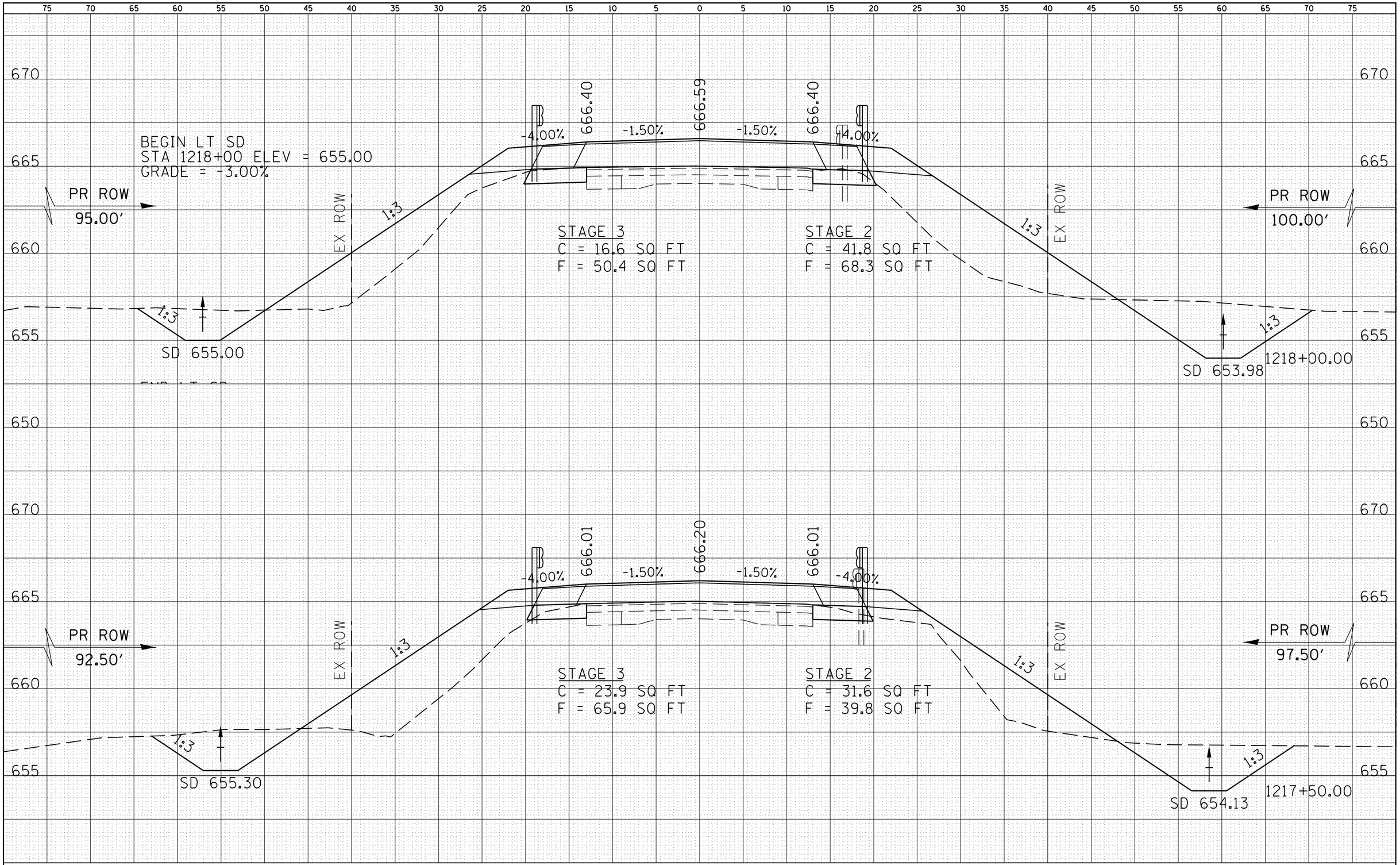
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H, 1"=2.5'V | SHEET NO. 7 OF 29 SHEETS | STA. 1216+50.00 STA. | 1217+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	79
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H, 1"=2.5'V | SHEET NO. 8 OF 29 SHEETS | STA. 1217+500 STA. 1218+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	80
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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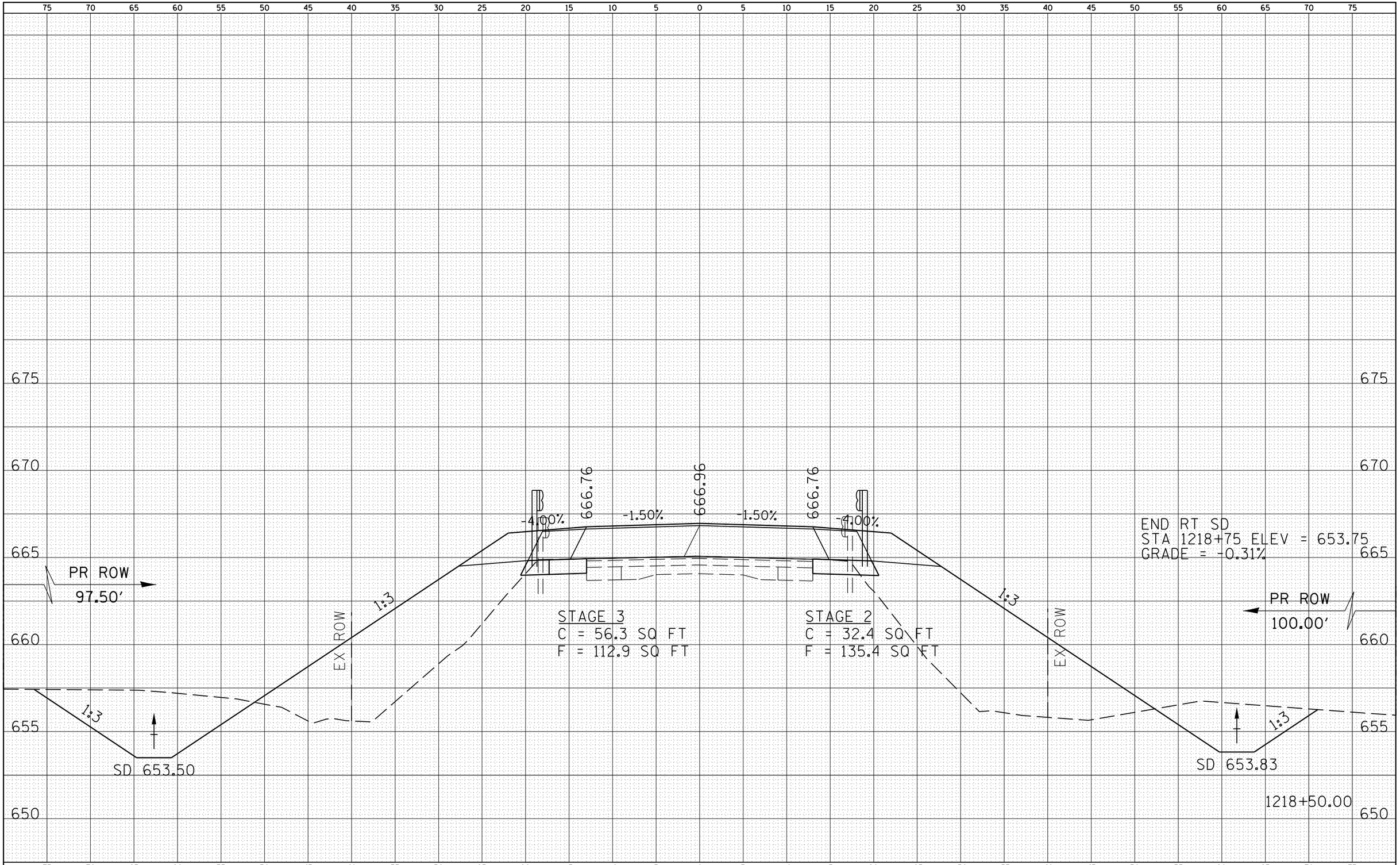

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H / 1"=5'V | SHEET NO. 9 OF 29 SHEETS | STA. 1218+500 STA. 1218+50

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	81
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

END LT SD
STA 1219+25 ELEV = 651.25
GRADE = -3.00%

PR ROW
100.00'

1:3

EX ROW

1:3

SD 652.00

4.00%

666.99

-1.50%

667.18

-1.50%

666.99

4.00%

EX ROW

STAGE 3
C = 32.6 SQ FT
F = 126.9 SQ FT

STAGE 2
C = 17.7 SQ FT
F = 0.0 SQ FT

PR ROW
100.00'

1219+00.00

675 670 665 660 655 650 645 640

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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

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

FILE NAME = c:\pw_work\pwidot\laughlinrl\d0244977\D672B05-sht-xsections.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
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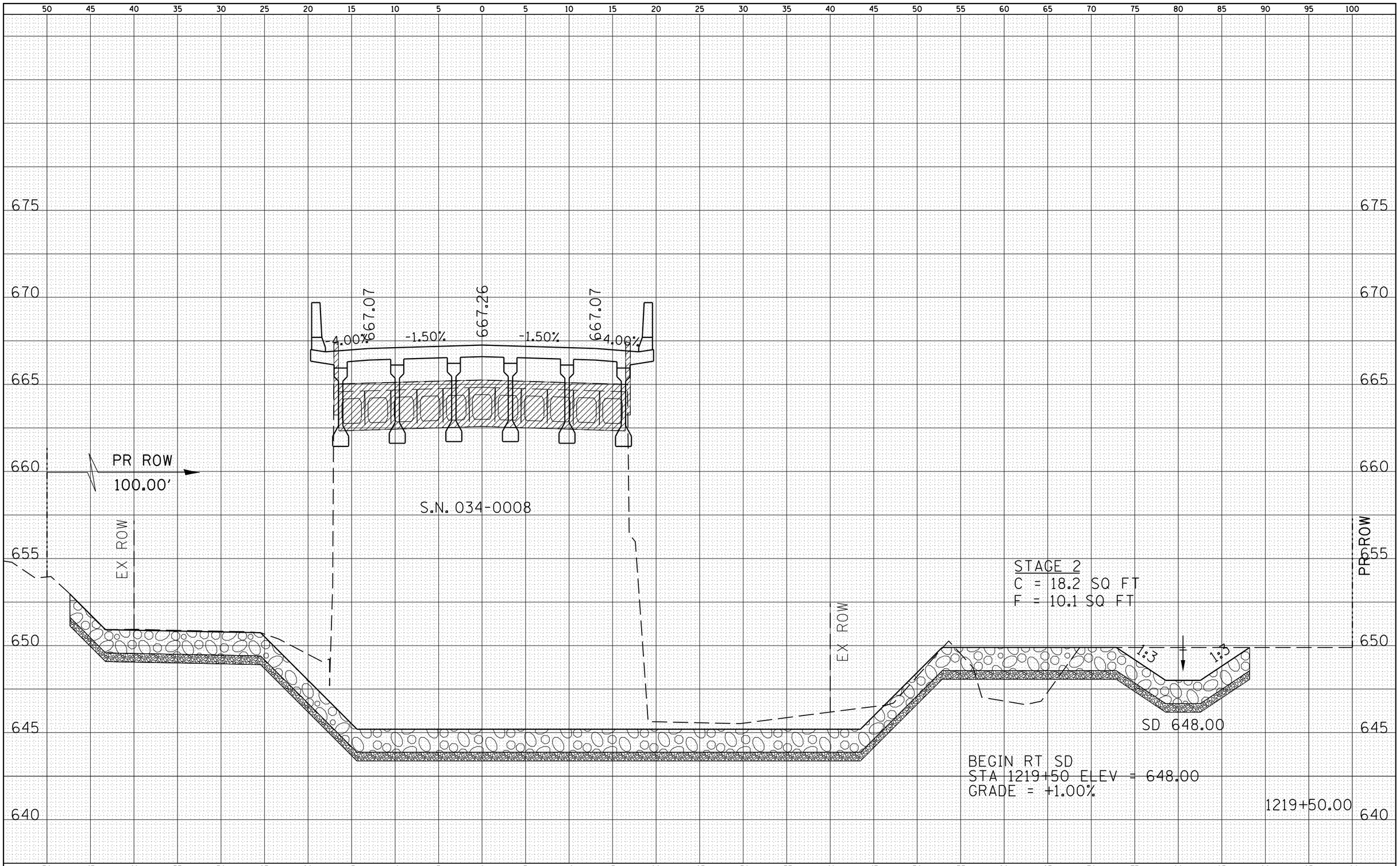
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H 1"=5'V | SHEET NO. 10 OF 29 SHEETS | STA. 1219+000 STA. 1219+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	82
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

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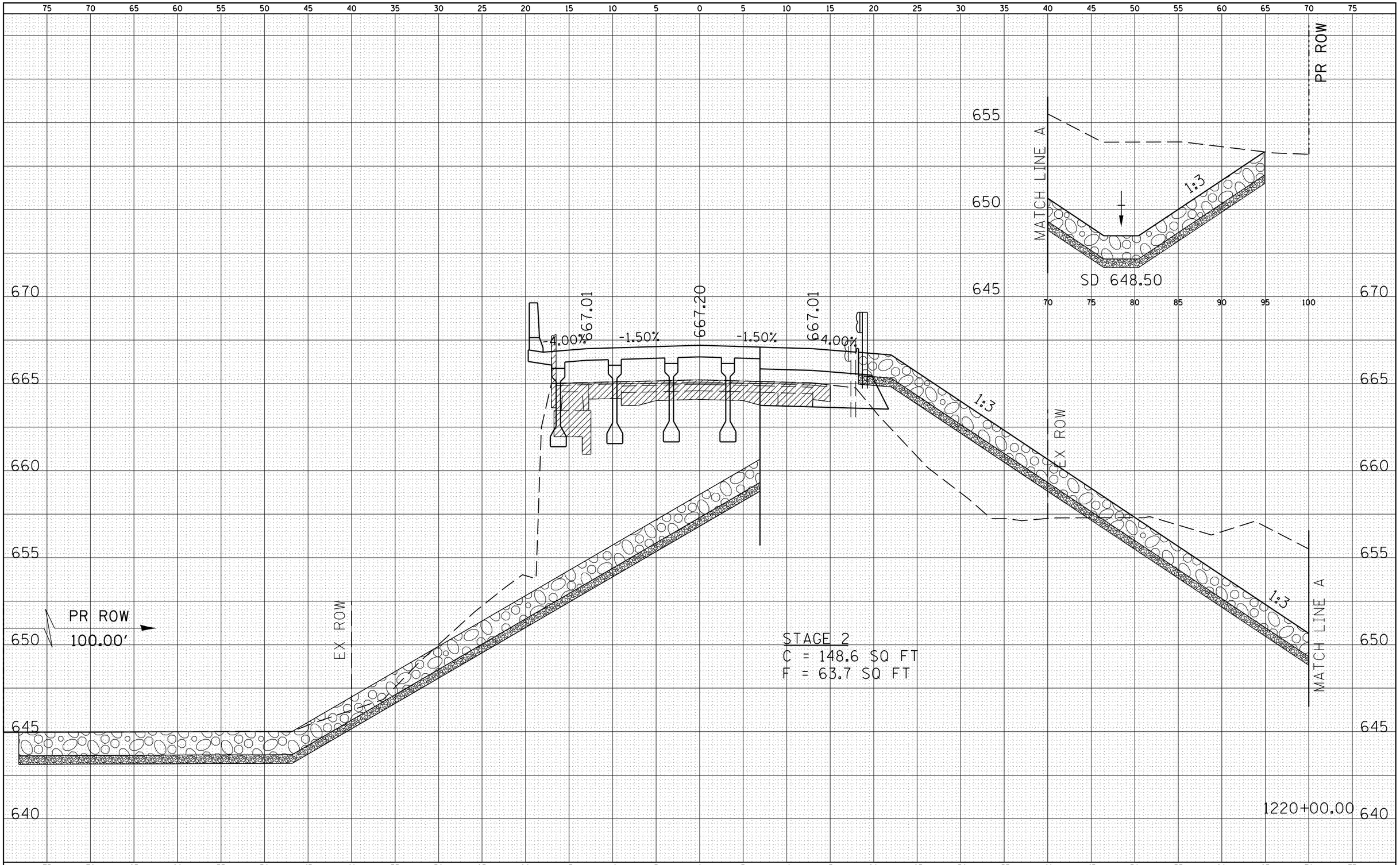
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H 1"=2.5'V | SHEET NO. 11 OF 29 SHEETS | STA. 1219+500 STA. 1219+50

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	83
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

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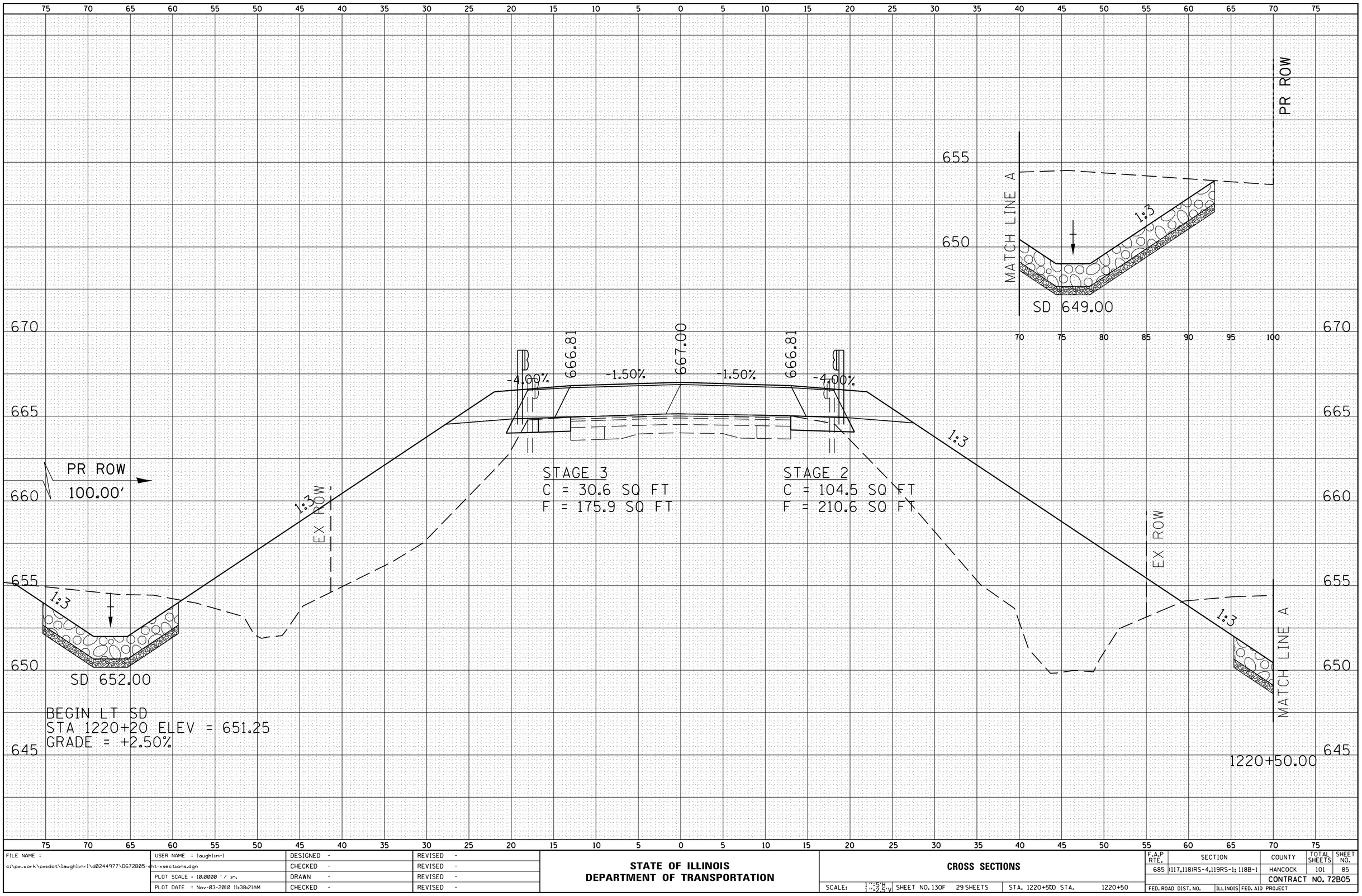
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H 1"=2.5'V | SHEET NO. 12 OF 29 SHEETS | STA. 1220+00.00 STA. 1220+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	84
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

BY	DATE

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

BY	DATE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

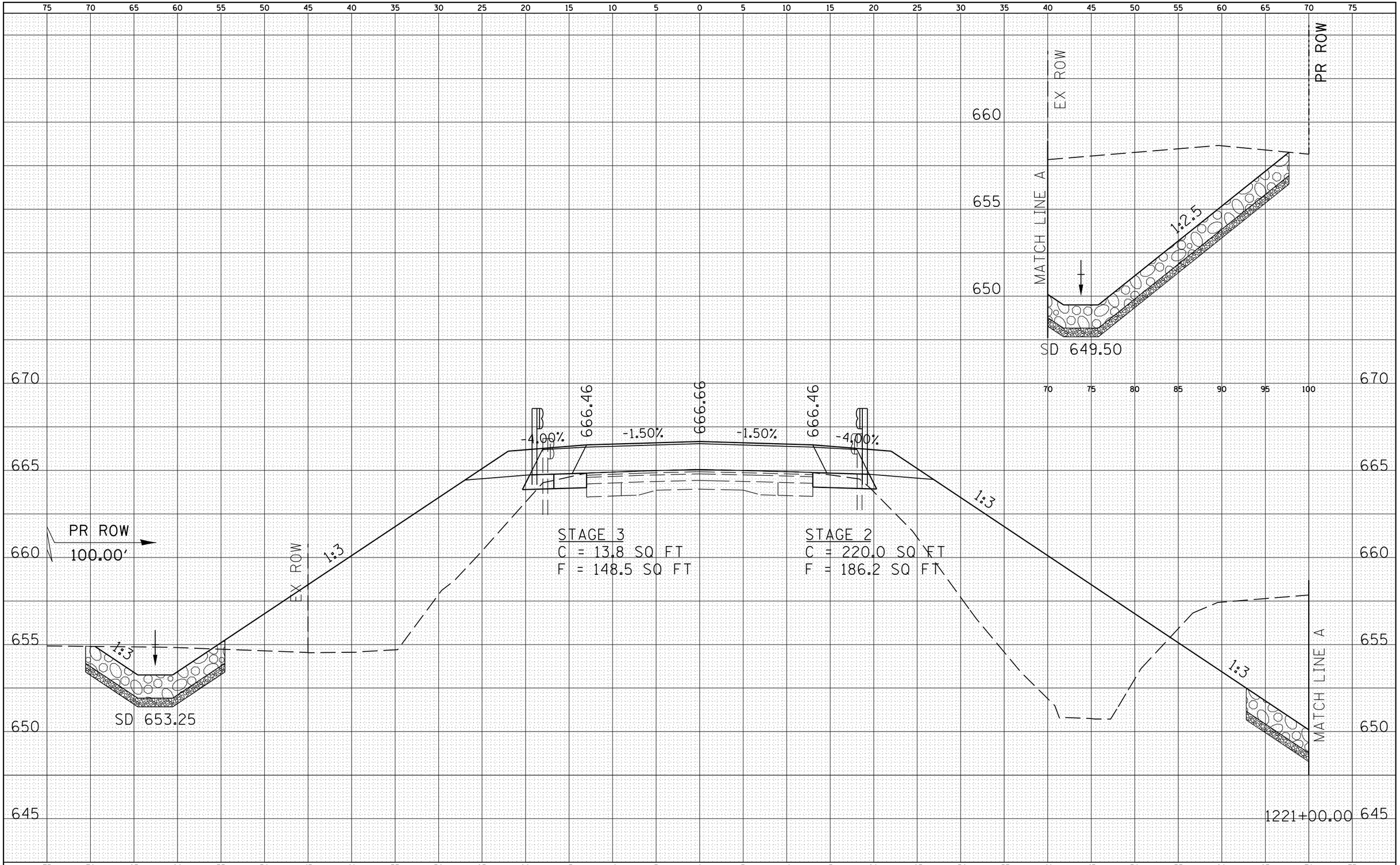
CROSS SECTIONS

SCALE: 1"=5'H, 1"=2.5'V | SHEET NO. 130F 29 SHEETS | STA. 1220+50 STA. 1220+50

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	85
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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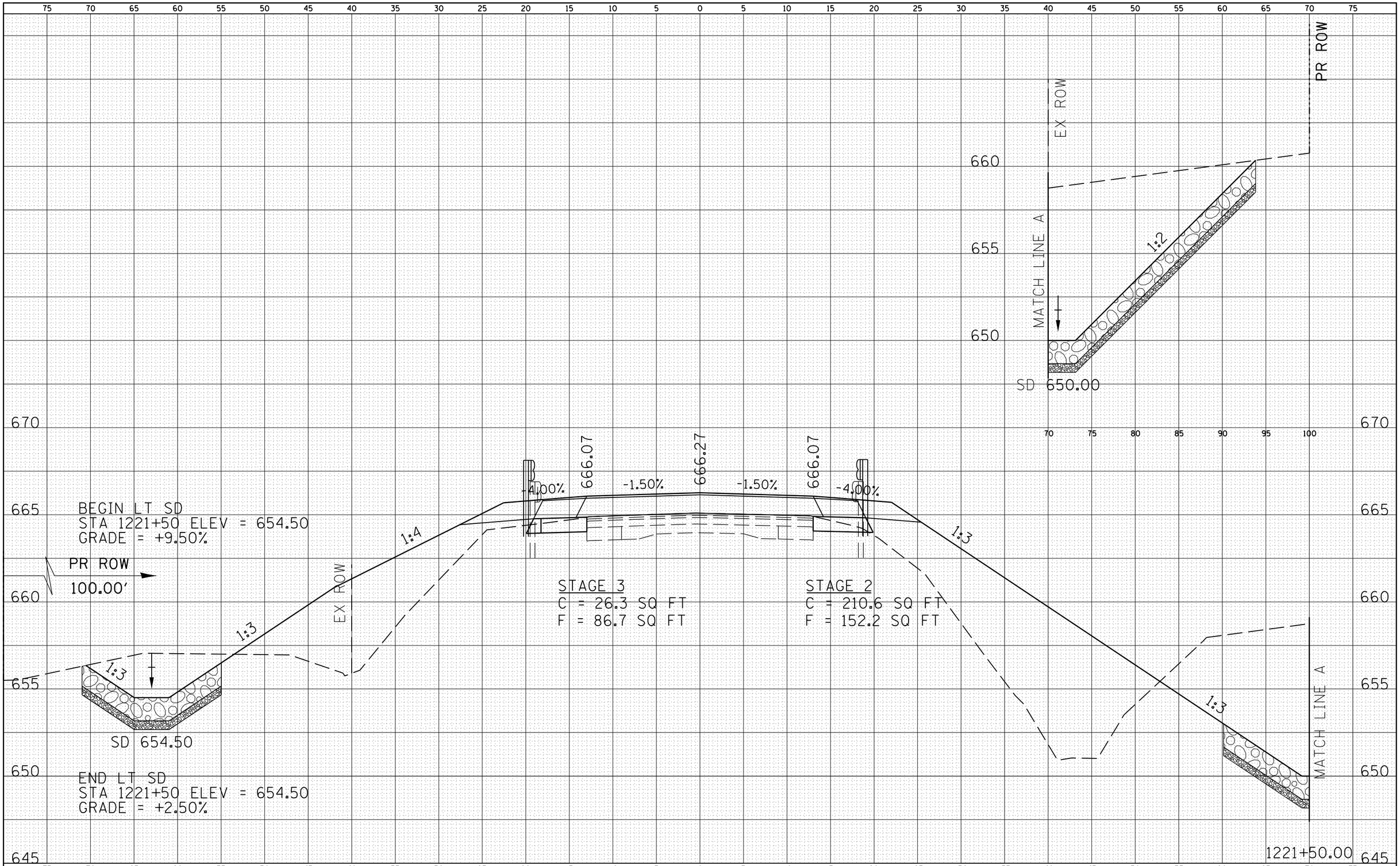
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H, 1"=5'V | SHEET NO. 14 OF 29 SHEETS | STA. 1221+00.00 STA. 1221+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	86
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H 1"=5'V | SHEET NO. 15 OF 29 SHEETS | STA. 1221+50 TO STA. 1221+50

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	87
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

PR ROW

100.00'

BEGIN LT SD
STA 1222+00 ELEV = 659.25
GRADE = +1.50%

-4.00%

665.76

-1.50%

665.95

-0.86%

665.84

-4.00%

1:4

1:50

1:3

1:3

EX ROW

SD 659.25

END LT SD
STA 1222+00 ELEV = 659.25
GRADE = +9.50%

STAGE 3
C = 2.1 SQ FT
F = 109.4 SQ FT

STAGE 2
C = 249.2 SQ FT
F = 163.0 SQ FT

1:3.5

1:3

MATCH LINE A

EX ROW

PR ROW

1:2

SD 650.50

MATCH LINE A

1222+00.00

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H 1"=2.5'V | SHEET NO. 16OF 29 SHEETS | STA. 1222+00D STA. 1222+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	88
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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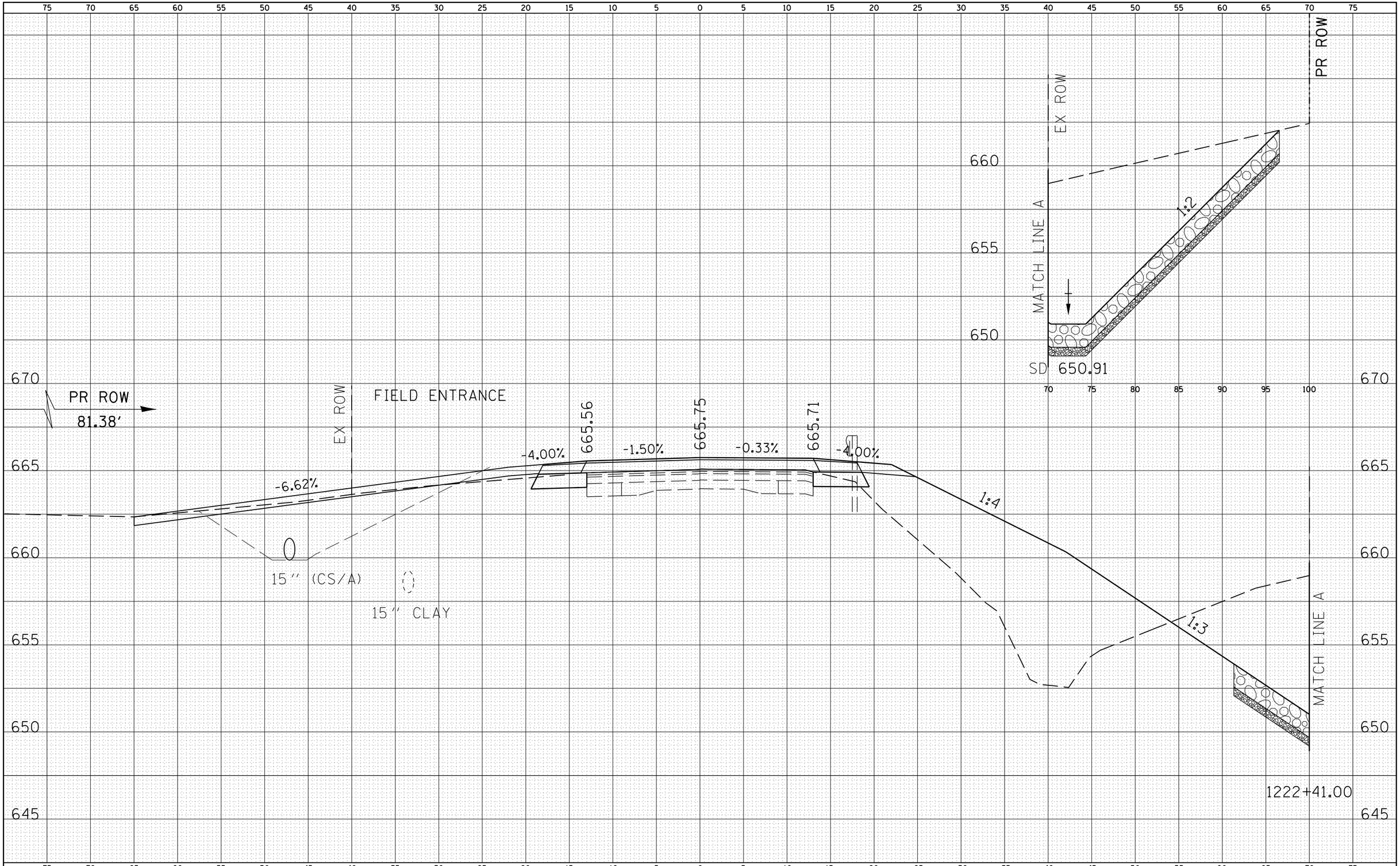
AREAS				
AREAS CHECKED				



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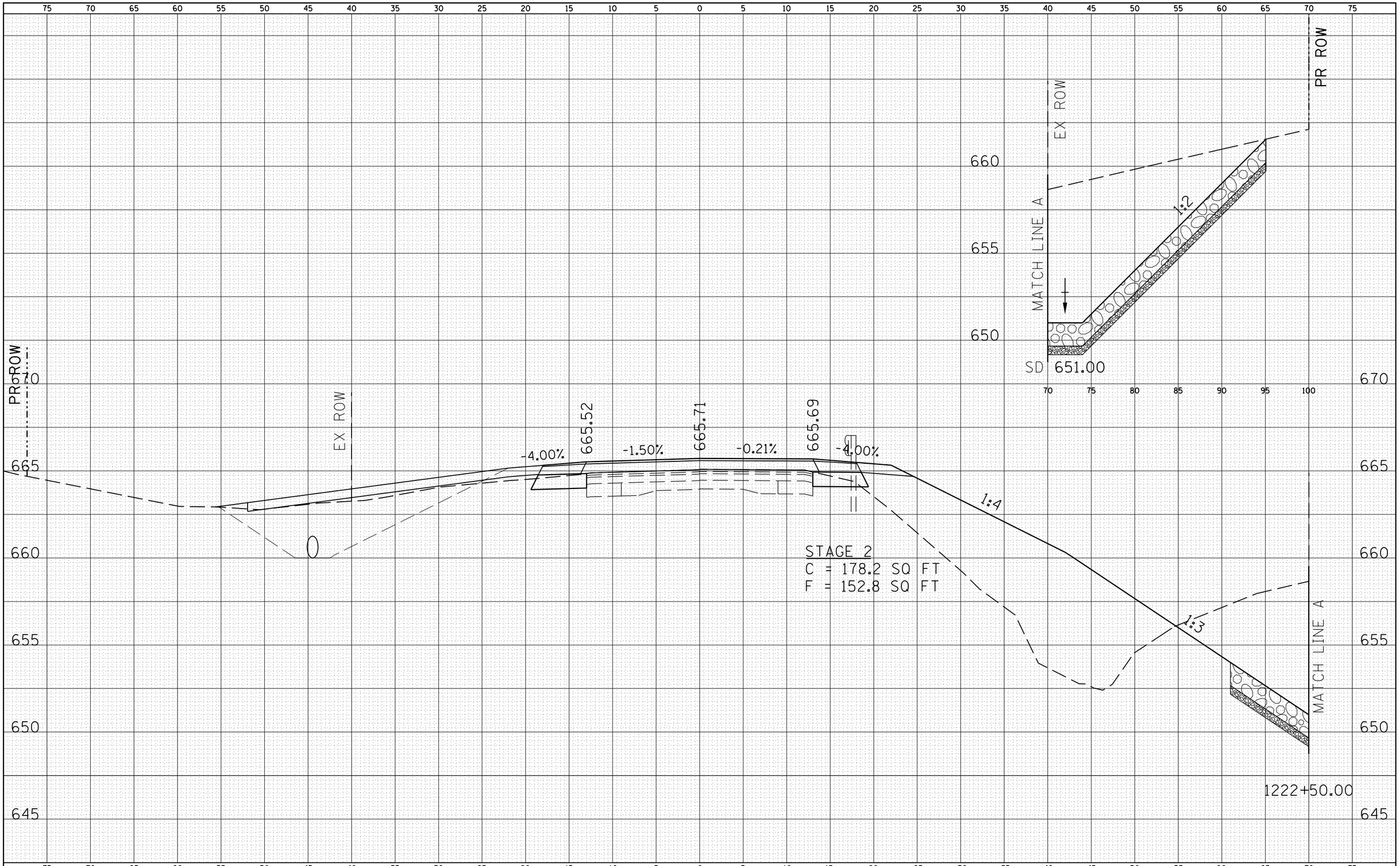
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H 1"=2.5'V | SHEET NO. 17 OF 29 SHEETS | STA. 1222+41.00 STA. 1222+41.0

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	89
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

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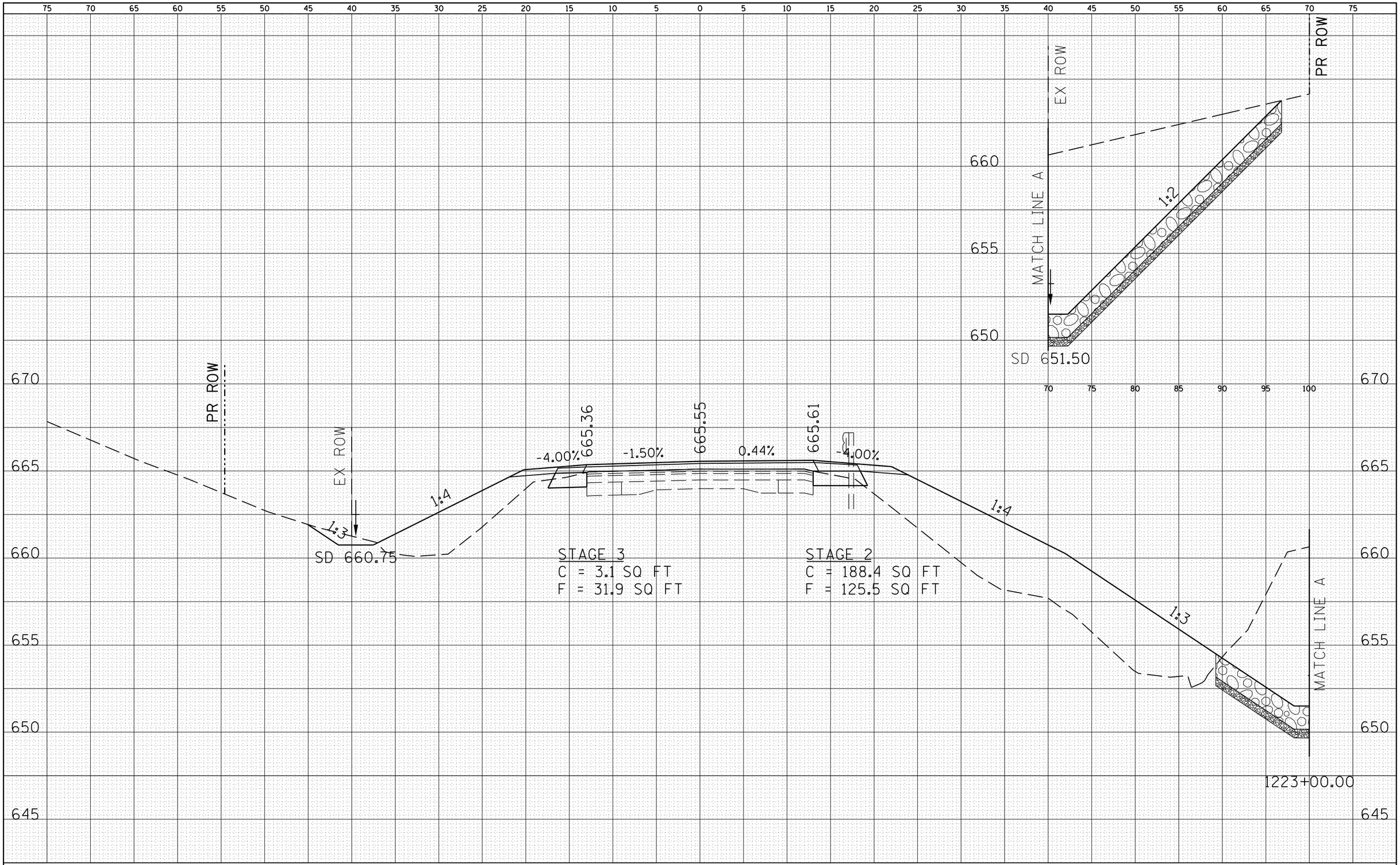
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H, 1"=2.5'V | SHEET NO. 18 OF 29 SHEETS | STA. 1222+50 | STA. 1222+50

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	90
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY

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

ORIGINAL SURVEY

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

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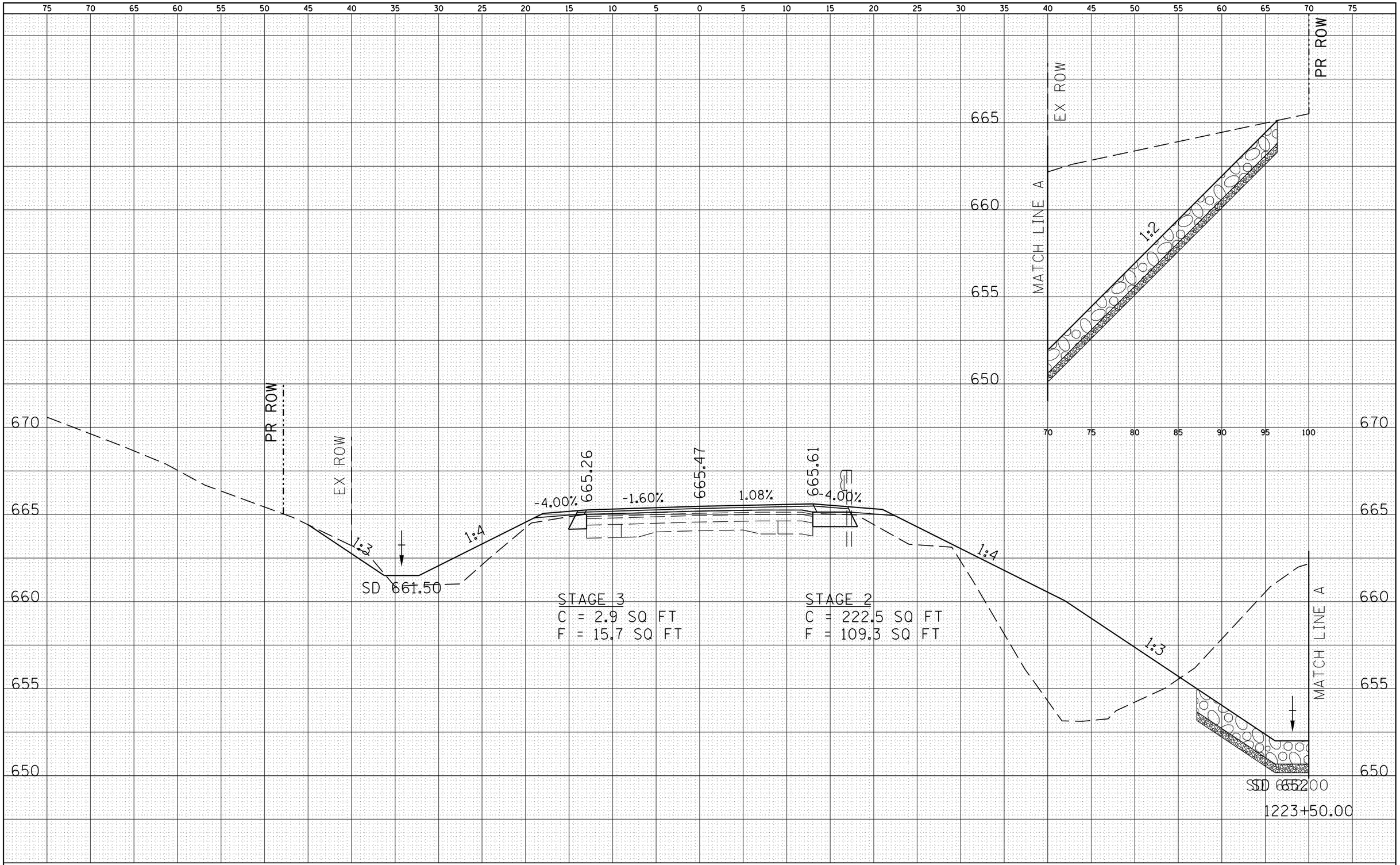
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H 1"=2.5'V | SHEET NO. 19 OF 29 SHEETS | STA. 1223+00 STA. 1223+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	91
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

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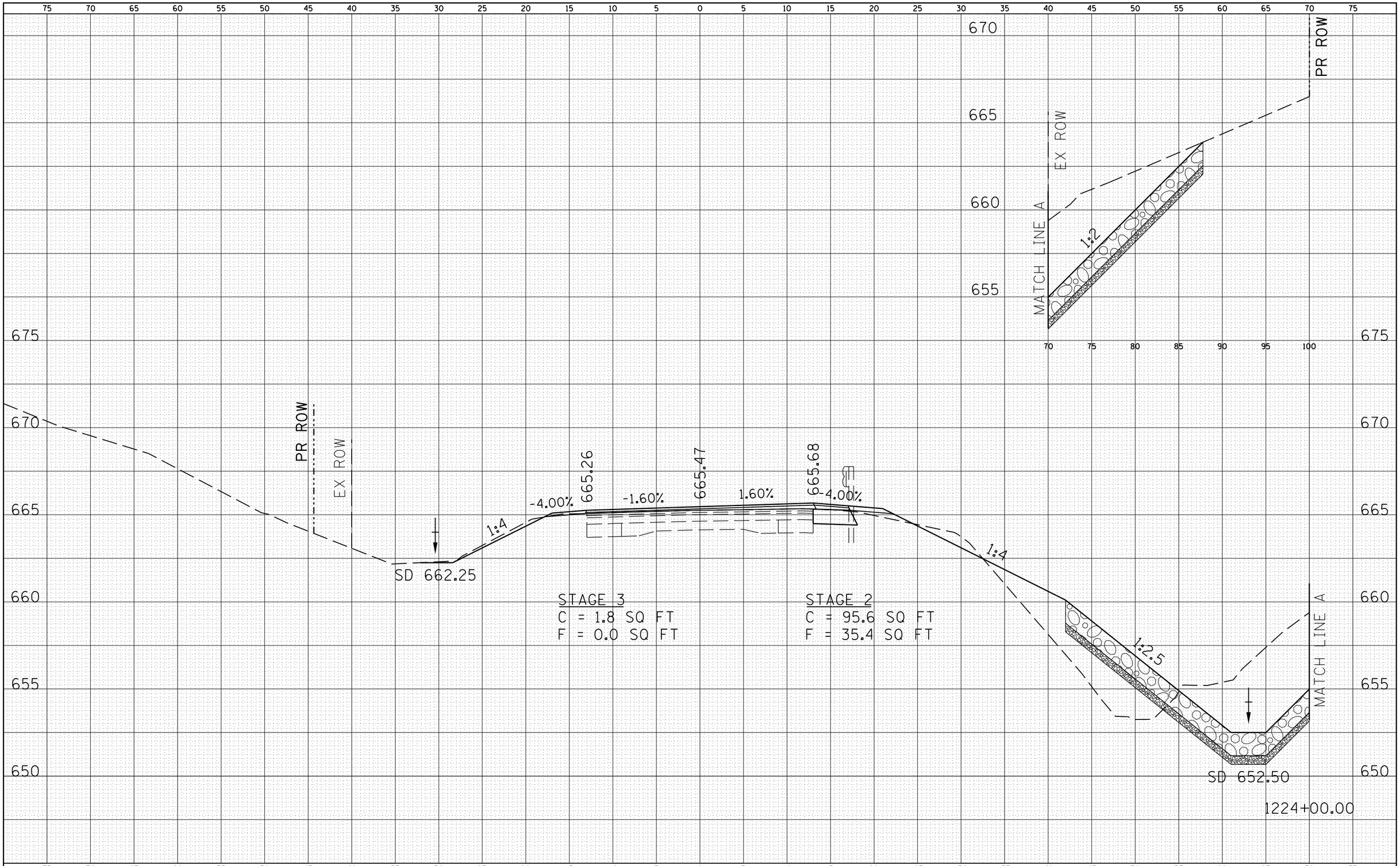
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H 1"=5'V | SHEET NO. 20 OF 29 SHEETS | STA. 1223+500 STA. 1223+50

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	92
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY

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

ORIGINAL SURVEY

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H, 1"=5'V | SHEET NO. 21OF 29 SHEETS | STA. 1224+00 | STA. 1224+00

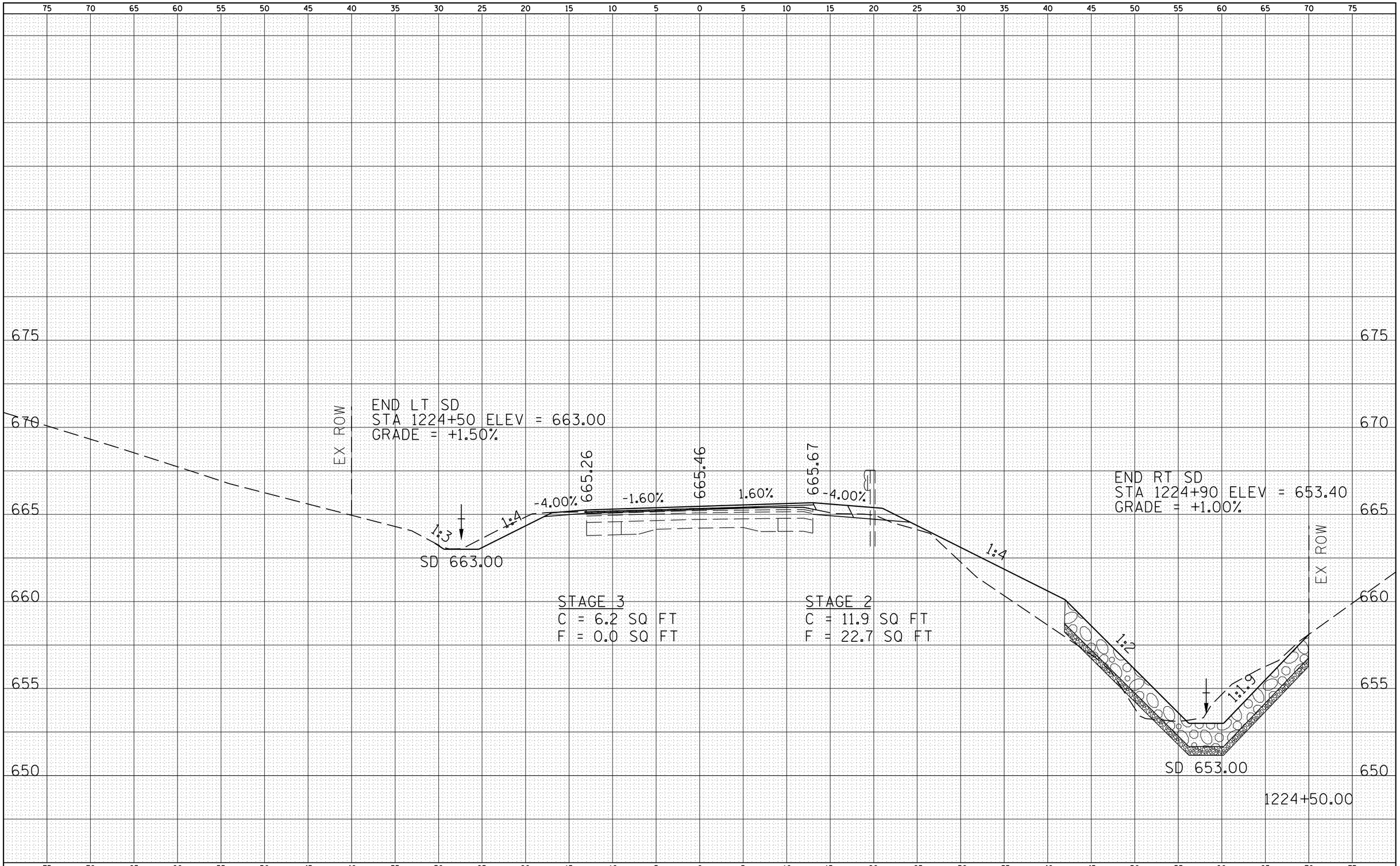
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	93
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

BY	DATE

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

BY	DATE



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H 1"=2.5'V | SHEET NO. 22OF 29 SHEETS | STA. 1224+50O STA. 1224+50

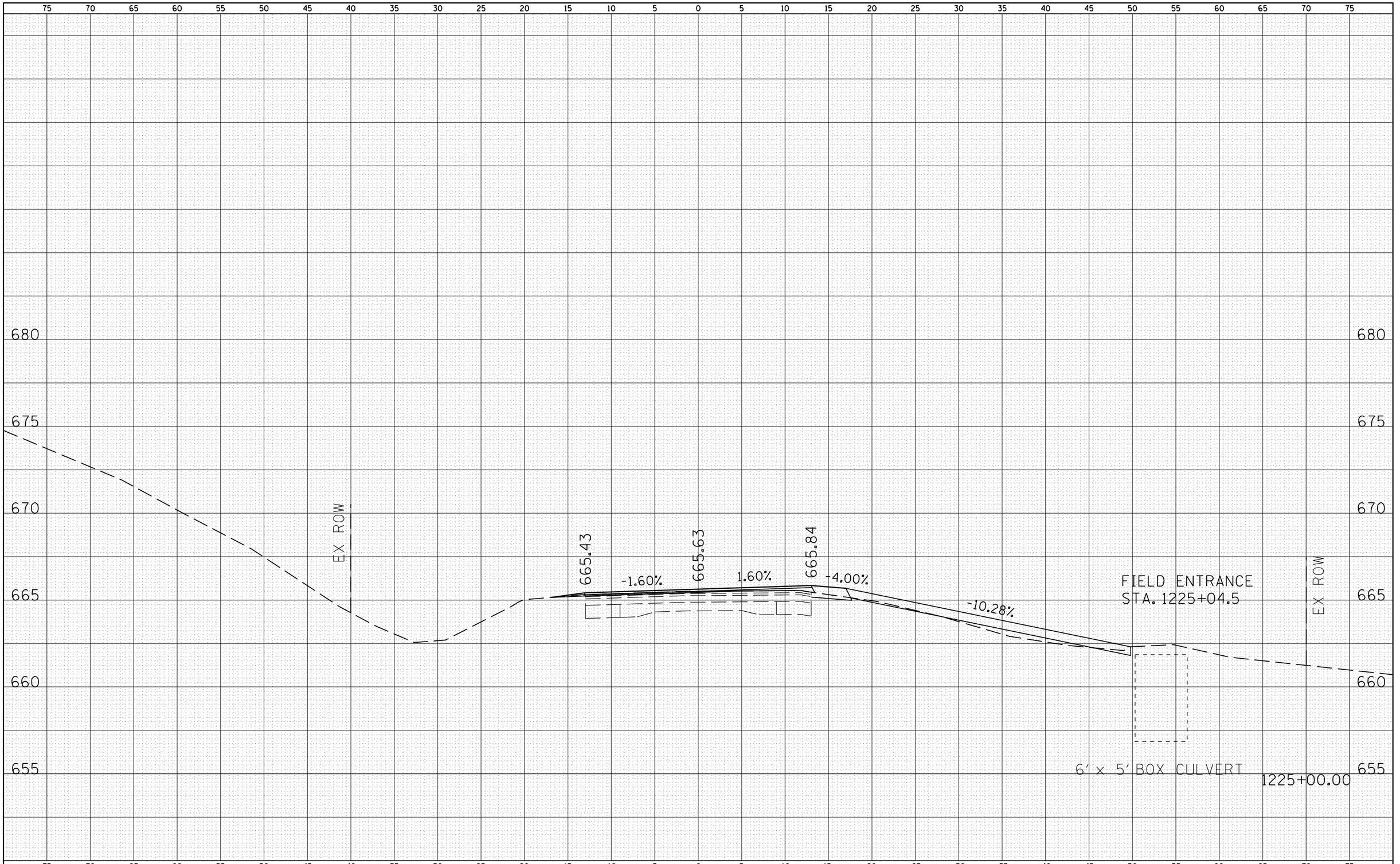
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	94
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

BY	DATE

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

BY	DATE



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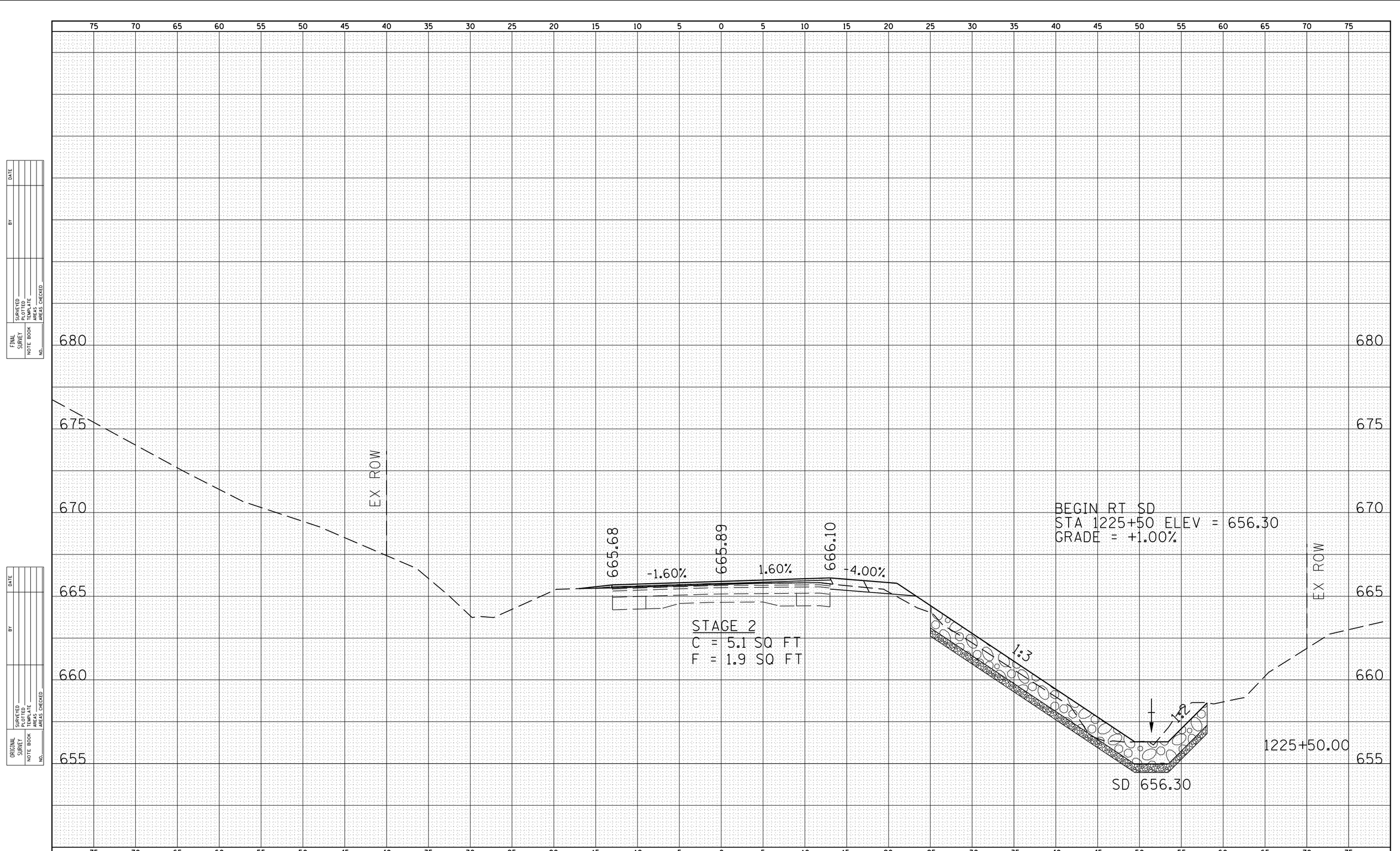
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H, 1"=2.5'V | SHEET NO. 23 OF 29 SHEETS | STA. 1225+00.00 STA. 1225+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	95
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY	BY	DATE
NOTE BOOK		
AREAS		
NO.		

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
AREAS		
NO.		

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

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REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H / 1"=5'V | SHEET NO. 24 OF 29 SHEETS | STA. 1225+50 STA. 1225+50

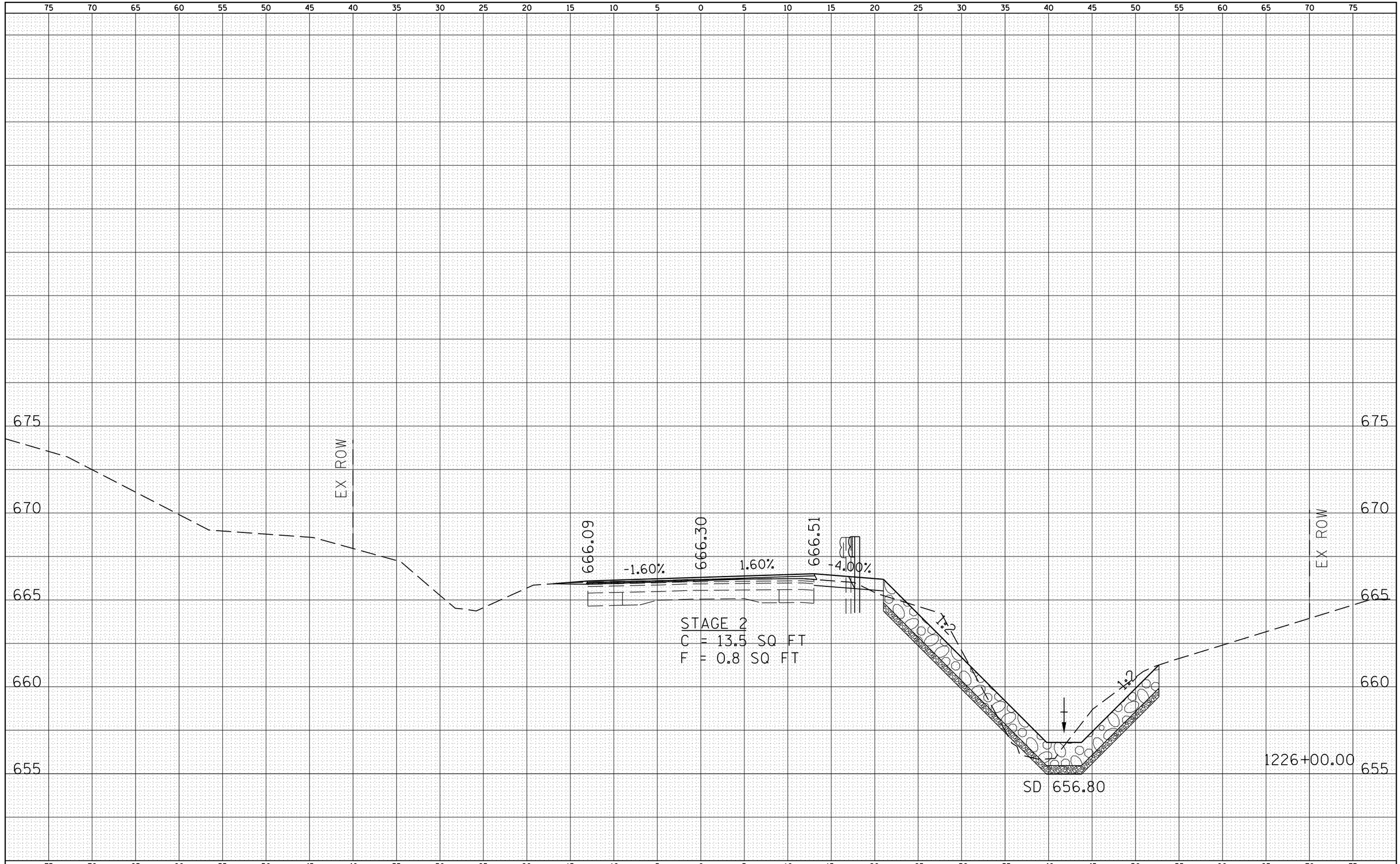
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	96
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

BY	DATE

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

BY	DATE



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

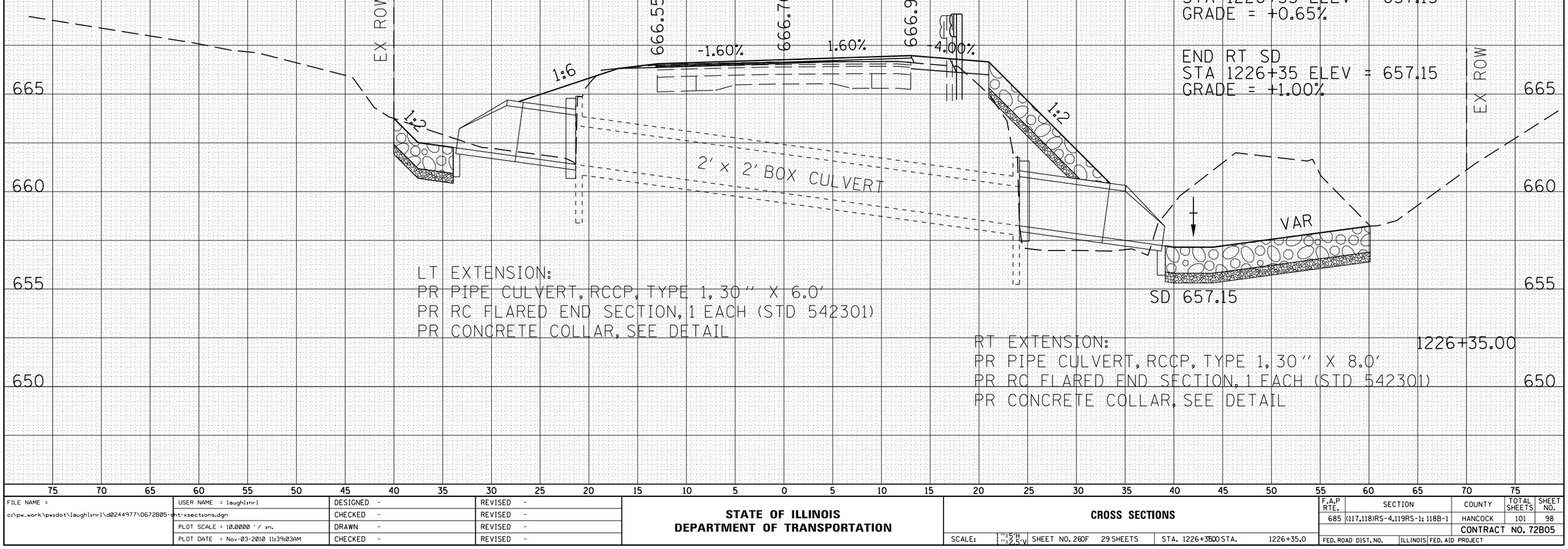
CROSS SECTIONS

SCALE: 1"=5'H 1"=5'V | SHEET NO. 25 OF 29 SHEETS | STA. 1226+000 STA. 1226+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	97
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H 1"=2.5'V | SHEET NO. 26OF 29 SHEETS | STA. 1226+35.00 STA. 1226+35.0

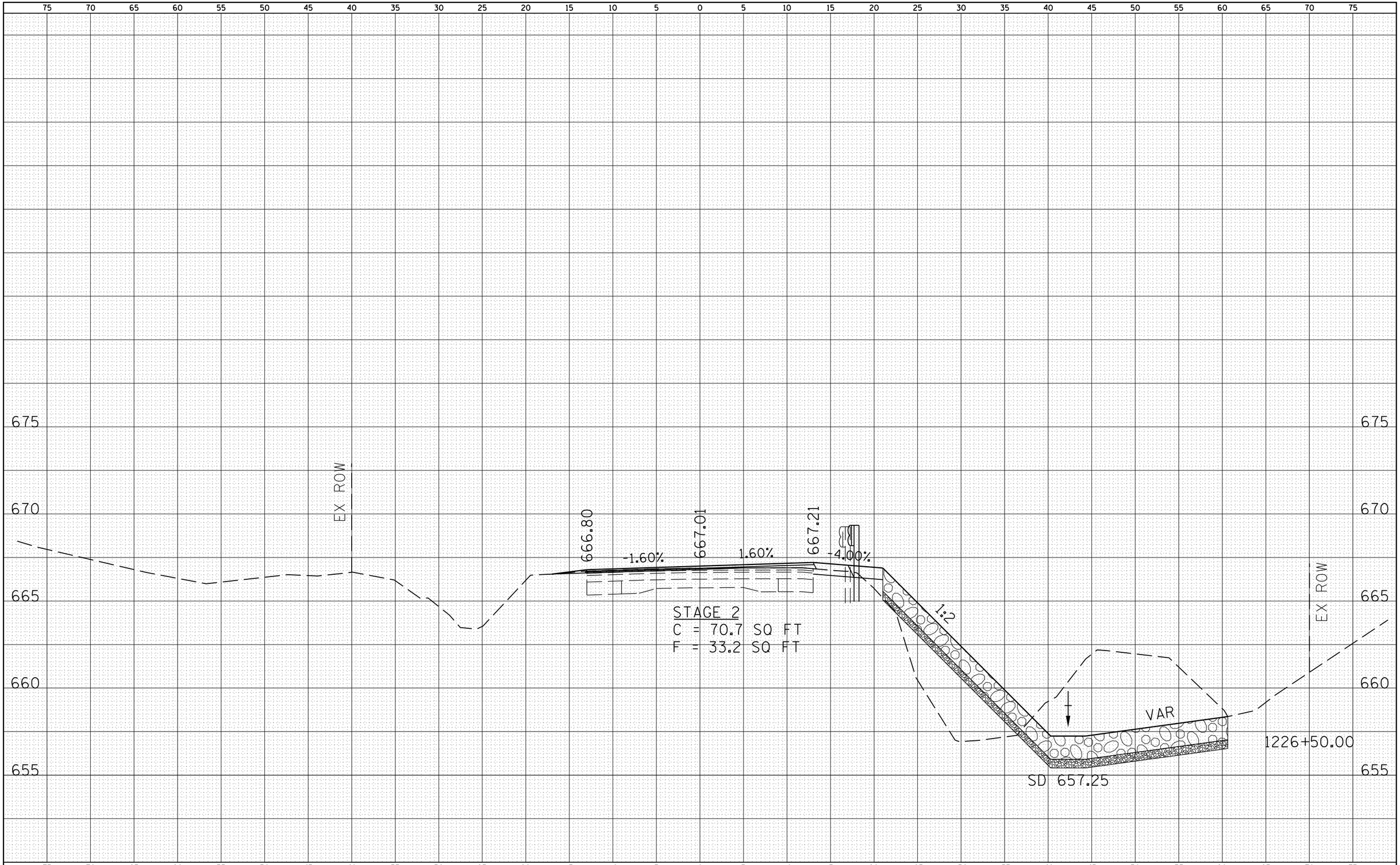
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	98
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

BY	DATE

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

BY	DATE



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

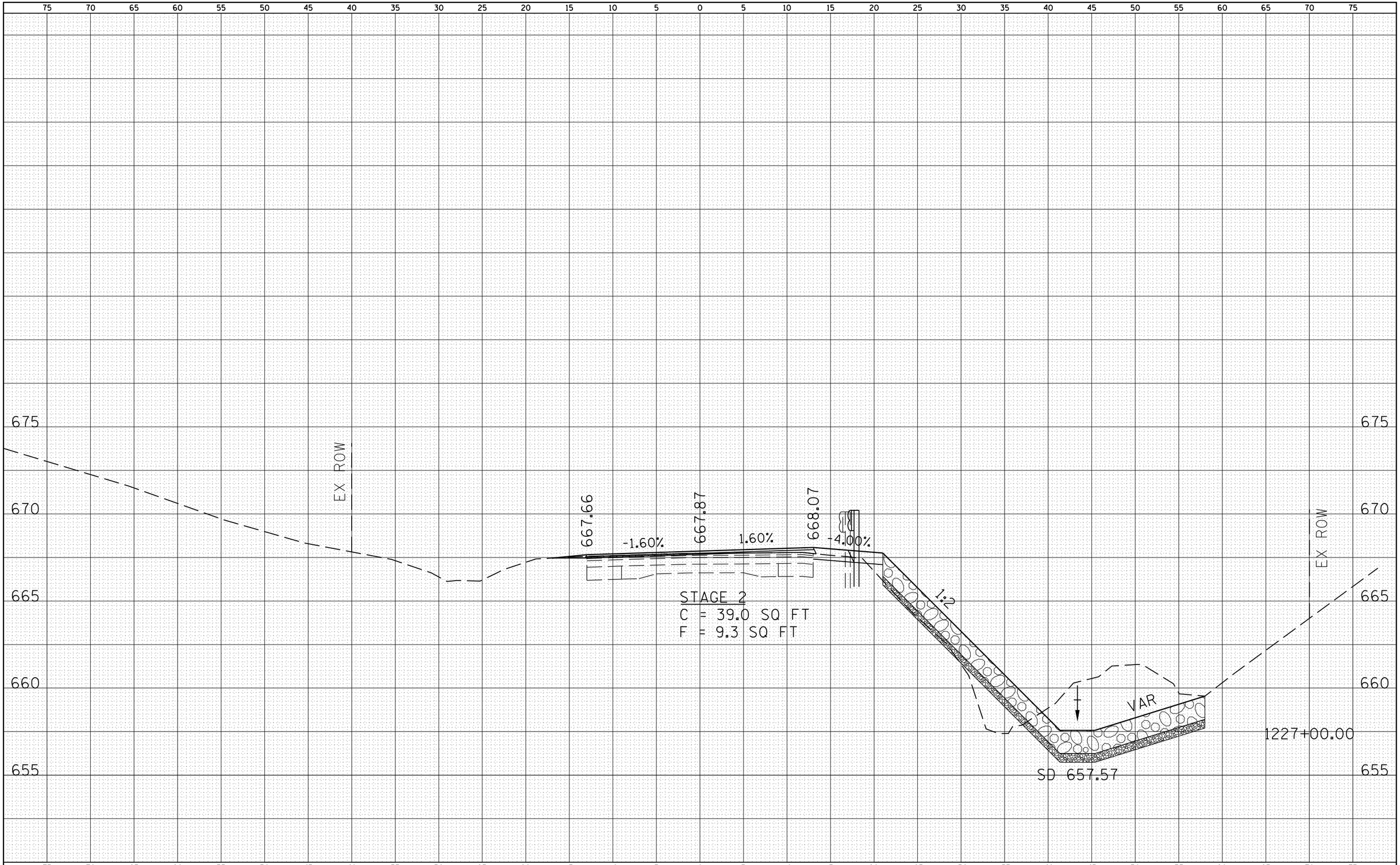
CROSS SECTIONS

SCALE: 1"=5'H 1"=5'V | SHEET NO. 27 OF 29 SHEETS | STA. 1226+500 STA. 1226+50

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	99
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H 1"=5'V | SHEET NO. 28 OF 29 SHEETS | STA. 1227+000 STA. 1227+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	100
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

BY	DATE

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

BY	DATE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=5'H 1"=2.5'V | SHEET NO. 29 OF 29 SHEETS | STA. 1227+50 STA. 1227+50

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	(117,118)RS-4,119RS-1; 118B-1	HANCOCK	101	101
		CONTRACT NO. 72B05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		