11-18-11 LETTING ITEM 092

FOR INDEX OF SHEETS & STATE STANDARDS, SEE SHEET NO. 2

PROJECT ENGINEER: REBECCA MARRUFFO

SQUAD LEADER: CHAD SPREEMAN (815)284-5934

IMPROVEMENT ENDS
STA. 425 + 50.00

SECTION ENDS
STA. 425 + 00.00

STA. 420+54.63 - SPECIAL BRIDGE DESIGN
3-SPAN CONTINUOUS STEEL COMPOSITE
WIDE FLANGE BEAM BRIDGE.
106'-0" BK.-BK. ABUTS. LENGTH
PROPOSED S.N. 052-0080
EXISTING S.N. 052-0025

SECTION & IMPROVEMENT BEGINS
STA. 415 + 25

SECTION & IMPROVEMENT BEGINS
STA. 329 + 50.00

℄ STA. 325+58 - A.R. CULVERT
TRIPLE 12'-0" x 8'-0" R.C. BOX CULVERT
64'-11" LENGTH, SKEW 25° RT.
PROPOSED S.N. 052-2031
EXISTING S.N. 052-2029

SECTION & IMPROVEMENT BEGINS
STA. 322 + 00.00

IMPROVEMENT ENDS
STA. 315 + 50.00

SECTION ENDS
STA. 315 + 30.50

STA. 311+45.62 - SPECIAL BRIDGE DESIGN
3-SPAN CONTINUOUS STEEL COMPOSITE
WIDE FLANGE BEAM BRIDGE
160'-6" BK.-BK. ABUTS. LENGTH
PROPOSED S.N. 052-0081
EXISTING S.N. 052-0026

SECTION BEGINS
STA. 308 + 45.00

IMPROVEMENT BEGINS
STA. 307 + 75.00

EAST GROVE TOWNSHIP, SECTIONS 3, 4
MARION TOWNSHIP, SECTIONS 21, 22, 27, 28, 33, 34

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

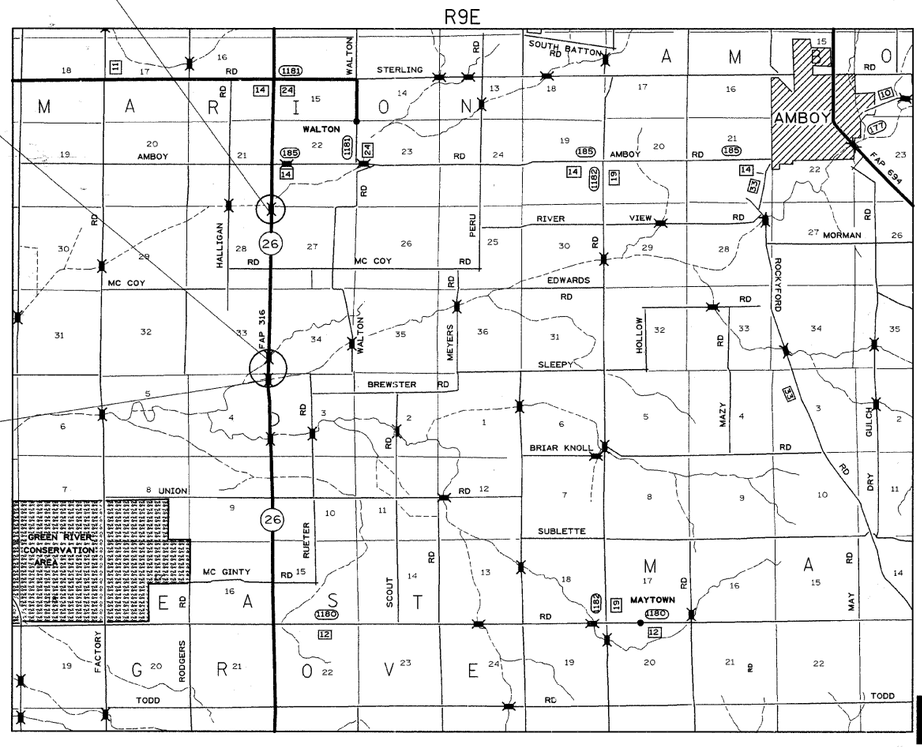
CONTRACT NO. 64D57

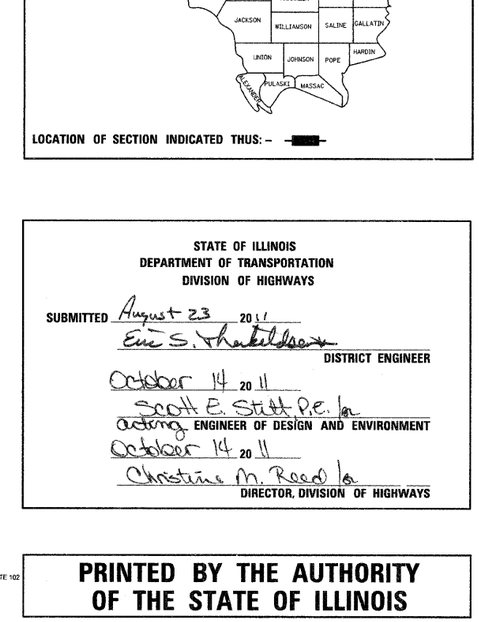
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 316 (IL 26)
SECTION 102BR-5, 102BR-6, & 102BR-7
PROJECT : *ACNHF-0316(038)*
LEE COUNTY

C92-042 -11





LOCATION OF SECTION INDICATED THUS: -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	1

* 102BR-5, 102BR-6, & 102BR-7

D-92-108-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED August 23 20 11
Eric S. Harkelroad
DISTRICT ENGINEER

October 14 20 11
Scott E. Stitt, P.E. /a
acting ENGINEER OF DESIGN AND ENVIRONMENT

October 14 20 11
Christine M. Reed /a
DIRECTOR, DIVISION OF HIGHWAYS

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MOLINE, IL 61265-1357
PHONE: 800.728.7805

DAVID F. MAXWELL
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS NO. 081-005455
EXPIRES NOVEMBER 30, 2012

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
FREEPORT, IL ROCKFORD, IL ROCHELLE, IL MONROE, WI SPRINGFIELD, IL
4448 ASH GROVE SPRINGFIELD, IL 62711 (217)-793-8800 www.fehr-graham.com

John A. Morris
Licensed Structural Engineer
State of Illinois No. 81-4277
Expires 11-30-2012

NET LENGTH OF PROJECT = 2550 LIN FEET = 0.48 MILES
GROSS LENGTH OF PROJECT = 11775 LIN FEET = 2.23 MILES

DISTRICT 2
DIXON

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420401-08	BRIDGE APROACH PAVEMENT CONNECTOR
442201-03	CLASS C AND D PATCHES
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
542401-01	METAL END SECTION FOR PIPE CULVERTS
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
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630101-09	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-09	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAIL
666001-01	RIGHT-OF-WAY MARKERS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-03	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701011-02	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ◇45MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-11	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ◇45MPH
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720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINIATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT

• 102BR-5, 102BR-6 & 102BR-7

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	2
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

	CODE	ITEM	UNIT	TOTAL	CONSTRUCTION CODE 80% FEDERAL 20% STATE			
					ROADWAY 0004 RURAL	SN 052-0080 0011 RURAL	SN 052-2031 0011 RURAL	SN 052-0081 0011 RURAL
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	150	150			
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	196	196			
	20200100	EARTH EXCAVATION	CU YD	2,447	2,447			
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	318	16		302	
	20400800	FURNISHED EXCAVATION	CU YD	1,837	1,837			
*	25000210	SEEDING, CLASS 2A	ACRE	2.5	2.5			
*	25000310	SEEDING, CLASS 4	ACRE	0.75	0.75			
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	286	286			
*	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	286	286			
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	286	286			
Δ	25000750	MOWING	ACRE	2.5	2.5			
*	25100115	MULCH, METHOD 2	ACRE	0.75	0.75			
*	25100630	EROSION CONTROL BLANKET	SQ YD	12,168	12,168			
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1,905	1,905			
	28000305	TEMPORARY DITCH CHECKS	FOOT	299	299			
	28000400	PERIMETER EROSION BARRIER	FOOT	1,844	1,844			
	28000500	INLET AND PIPE PROTECTION	EACH	3	3			
	28100107	STONE RIPRAP, CLASS A4	SQ YD	123			123	
	28100109	STONE RIPRAP, CLASS A5	SQ YD	2,384	105	1,085		1,194
	28200200	FILTER FABRIC	SQ YD	2,507	105	1,085	123	1,194
	31100910	SUBBASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	1,114	1,114			
	35100100	AGGREGATE BASE COURSE, TYPE A	TON	1,551	1,551			
	35101400	AGGREGATF BASE COURSE, TYPE B	TON	278	278			
	40600525	LEVELING BINDER (HAND METHOD), N50	TON	6	6			
	40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	1,038	1,038			
	40600990	TEMPORARY RAMP	SQ YD	196	196			
	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	1,011	1,011			
	40800050	INCIDENTIAL HOT-MIX ASPHALT SURFACING	TON	18	18			
	42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	112	112			

* SPECIALITY ITEM Δ **NP 100% STATE**

• 102BR-5, 102BR-6 & 102BR-7

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	•	LEE	216	3
		CONTRACT NO. 64D57		
	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE	ITEM	UNIT	TOTAL	CONSTRUCTION CODE 80% FEDERAL 20% STATE			
				ROADWAY 0004 RURAL	SN 052-0080 0011 RURAL	SN 052-2031 0011 RURAL	SN 052-0081 0011 RURAL
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	1,908	1,908			
44004250	PAVED SHOULDER REMOVAL	SQ YD	1,641	1,641			
44201359	CLASS C PATCHES, TYPE IV, 10 INCH	SQ YD	364	364			
48101200	AGGREGATE SHOULDERS, TYPE B	TON	128	128			
48203019	HOT-MIX ASPHALT SHOULDERS, 5 1/2"	SQ YD	953	953			
48203023	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	SQ YD	3,872	3,872			
48300300	PORTLAND CEMENT CONCRETE SHOULDERS 8"	SQ YD	44	44			
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1				1
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1			1	
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1		1		
50200100	STRUCTURE EXCAVATION	CU YD	739		406		333
50300225	CONCRETE STRUCTURES	CU YD	344.1		165.3		178.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	680.6		302.9		377.7
50300260	BRIDGE DECK GROOVING	SQ YD	1638		704		934
50300280	CONCRETE ENCASEMENT	CU YD	26.6		10.8		15.8
50300300	PROTECTIVE COAT	SQ YD	2,009		861		1,148
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		0.3		0.7
50500505	STUD SHEAR CONNECTORS	EACH	6,789		2,988		3,801
50800105	REINFORCEMENT BARS	POUND	65,010			65,010	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	195,210		88,810		106,400
50800515	BAR SPLICERS	EACH	1,909		786	196	927
51201600	FURNISHING STEEL PILES HP12X53	FOOT	1,399		475		924
51201800	FURNISHING STEEL PILES HP14X73	FOOT	2,143		685		1,458
51202305	DRIVING PILES	FOOT	3,542		1,160		2,382
51203600	TEST PILE STEEL HP12X53	EACH	4		2		2
51203800	TEST PILE STEEL HP14X73	EACH	4		2		2
51500100	NAME PLATES	EACH	3		1	1	1
52100520	ANCHOR BOLTS, 1"	EACH	104		48		56
54003000	CONCRETE BOX CULVERTS	CU YD	281.8			281.8	

* SPECIALITY ITEM

• 102BR-5, 102BR-6 & 102BR-7

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	•	LEE	216	4
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

	CODE	ITEM	UNIT	TOTAL	CONSTRUCTION CODE 80% FEDERAL 20% STATE ROADWAY 0004 RURAL	SN 052-0080 0011 RURAL	SN 052-2031 0011 RURAL	SN 052-0081 0011 RURAL
	542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	58	58			
	542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	52	52			
	54213447	END SECTIONS 12"	EACH	4	4			
	54213453	END SECTIONS 18"	EACH	2	2			
	54213459	END SECTIONS 24"	EACH	2	2			
	54215408	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 8"	EACH	1	1			
	54215410	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 10"	EACH	1	1			
	54215412	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 12"	EACH	1	1			
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	135		67		68
	60100925	PIPE DRAINS 8"	FOOT	20	20			
	60100935	PIPE DRAINS 10"	FOOT	20	20			
	60100945	PIPE DRAINS 12"	FOOT	142	142			
	60900515	CONCRETE THRUST BLOCKS	EACH	4	4			
	61000115	TYPE E INLET BOX, STANDARD 610001	EACH	4	4			
	61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	20	20			
	61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	2	2			
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	700	700			
*	63000025	STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES	FOOT	100			100	
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	8	8			
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2			
*	63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	10	10			
	63200310	GUARDRAIL REMOVAL	FOOT	2,514	2,514			
	63500105	DELINEATORS	EACH	20	20			
	66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	18	18			
	66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	4	4			
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8			
	67100100	MOBILIZATION	L SUM	1	1			
	70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	3	3			
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1			

* SPECIALITY ITEM

• 102BR-5, 102BR-6 & 102BR-7

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	•	LEE	216	5
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

	CODE	ITEM	UNIT	TOTAL	CONSTRUCTION CODE 80% FEDERAL 20% STATE			
					ROADWAY 0004 RURAL	SN 052-0080 0011 RURAL	SN 052-2031 0011 RURAL	SN 052-0081 0011 RURAL
	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	3	3			
*	70106700	TEMPORARY RUMBLE STRIPS	EACH	12	12			
	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	482	482			
*	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	9,950	9,950			
*	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	77	77			
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3,552	3,552			
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,875	1,875			
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,725	1,725			
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	13,203	13,203			
*	78100100	RAISED REFLECTIVE PAVEMENT MARKERS	EACH	29	29			
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	28	28			
*	78200520	BARRIER WALL MARKERS, TYPE B	EACH	12	12			
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	12	12			
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	2,201	2,201			
*	A2000262	TREE, MORUS RUBBA (RED MULBERRY) 3' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	5	5			
*	A2006414	TREE, QUERCUS ALBA (WHITE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	10	10			
*	A2C056G5	TREE, QUERCUS MACROCARPA (BURR OAK), CONTAINER GROWN, 5-GALLON	EACH	2	2			
*	A2C25G10	TREE, CERCIS CANADENSIS (REDBUD), CONTAINER GROWN, 10-GALLON	EACH	5	5			
	X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	214		112		102
	X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1				1
	X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH	1				1
	X5020503	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 3	EACH	1		1		
	X5020504	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 4	EACH	1		1		
	X5121800	PERMANENT STEEL SHEET PILING	SQ FT	1,625			1,625	
	X6060505	CONCRETE CURB (SPECIAL)	FOOT	54	54			
	Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	50		28		22
	Z0005400	BREAKER-RUN CRUSHED STONE	TON	488			488	

* SPECIALITY ITEM

* 102BR-5, 102BR-6 & 102BR-7

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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SUMMARY OF QUANTITIES

CODE	ITEM	UNIT	TOTAL	CONSTRUCTION CODE 80% FEDERAL 20% STATE			
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Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1			
Z0025500	FURNISHING AND INSTALLING PROPERTY MARKERS	EACH	2	2			
Z0026407	TEMPORARY SHEET PILING	SQ FT	3,985			2,149	1,836
Z0028415	GEOTECHNICAL REINFORCEMENT	SQ YD	4,402	4,402			
Z0028700	GRANULAR SUBGRADE REPLACEMENT	CU YD	16	16			
Z0030250	IIMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	6	6			
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	6	6			
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	297		147		150
Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	887		887		
Z0073500	TEMPORARY SUPPORT SYSTEM	L SUM	1			1	

* SPECIALITY ITEM

Rev. • 102BR-5, 102BR-6 & 102BR-7

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		DRAWN -	REVISED -
	PLOT SCALE = 75.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = Tue Aug 23 06:28:43 2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	•	LEE	216	7
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

GENERAL NOTES

See cross sections for special ditches and backslopes.

The final top 100 mm (four inches) of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils.

It is estimated that 1,837 cubic yards of earth will be hauled to the job from outside the project limits. A shrinkage factor of 25% has been used.

All Borrow/Waste/Use sites must be approved by the Department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpiling outside the limits of construction.

The Contractor shall seed all disturbed areas within the project limits. Seeding Class 4 or 2A shall be used, except in front of properties where the grass will be mowed, then use Seeding, Class 1. Class 2A shall be used on front slopes and ditch bottoms. Class 4 shall be used behind Type A gutter, on all backslopes and areas behind the backslope, and beyond the toe of front slope on fill sections without ditches.

Placement and compaction of the backfill for proposed across road culverts and existing across road culverts that are removed shall conform to Section 502.10 of the Standard Specifications, except that the material shall conform to Article 208.02 of the Standard Specifications, and shall be compacted to a minimum of 95% of the standard laboratory density. Any material conforming to the requirements of Article 1003.04 or 1004.05 which has been excavated from the trenches shall be used for backfilling the trenches. The entire excavation, within 2 feet outside of each shoulder, shall be backfilled with trench backfill material to the bottom of the proposed subgrade. Impervious material shall be used on the outer 3 feet of each end of the culvert. This trench backfill material will not be measured for payment, but shall be included in the contract unit price for the class of concrete involved or other unit price item of the work for which it is required.

Class C Patches shall be tied to the adjacent lane when the patches are more than 20 feet. The cost of the tie bars shall be included in the cost of the patch.

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Surface	Level Binder SN 052-0080	Other Level Binder	Top Shoulder	Bottom Shoulder
PG:	PG 64-22	PG 64-22	PG 64-22	PG 58-22	PG 58-22
Design Air Voids	4.0 @ N50	4.0 @ N50	4.0	3.0 @ N50	2.0 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5 or 12.5	IL 19.0	IL 9.5	IL 9.5 or 12.5	BAM
Friction Aggregate	C	N/A	N/A	C	N/A
20 Year ESAL	1.8	1.8	1.8	N/A	N/A

The Contractor will be required to furnish 140 mm (5 1/2") high brass stencils as approved by the Engineer and install stationing at 250' intervals. Stationing shall be placed on both lanes of 2-lane highways and on the outside lanes in both directions on 4-lane highways. The stations shall be placed 150 mm (6") inside the pavement marking edge so they can be read from the shoulder. This work will be included in the cost of the final pavement surface.

The area to be primed shall be limited to that which can be covered with HMA the same day, unless otherwise permitted by the Engineer.

Bituminous and Aggregate prime coat shall be placed in accordance with Section 406 of the Standard Specifications. The cost of the prime coats shall be included in the contract unit price per Metric Ton (Ton) for LEVELING BINDER (MACHINE METHOD) of the type specified.

A Regional 404 Permit has been issued for this project and the conditions of that permit must be adhered to.

The new number for the structure at Sta. 311+45.62 will be 052-0081.
The new number for the structure at Sta. 325+58 will be 052-2031.
The new number for the structure at Sta. 420+54.12 will be 052-0080.

Reflector Markers Type B shall be installed on the top of bridge parapet walls. The markers shall be according to Standard 635011 and the color and spacing according to Standard 635006, except the minimum is 2 per side.

The boring logs for this structure indicate that groundwater levels may encroach on the construction limits of this culvert. It shall be the responsibility of the contractor to control the ground water and divert the stream flow during construction in order to keep the construction area free of water. The method of controlling the water shall be subject to approval of the Engineer and the cost shall be included in the contract unit price for Precast Concrete Box Culverts.

Culvert & bridge flows must be maintained throughout the project. Normal flow shall be allowed to pass at the rate it enters the jobsite. High flows shall be allowed to pass without causing damage to upstream properties.

A Precast Box Culvert at Sta. 325+58 is not an option on the project due to soil conditions.

The Contractor shall remove all entrance culverts in condition for reuse which are not to be left in place. They shall be cleaned and stored along the right of way as directed. In no case shall they be roughly handled or shoved by heavy machinery. Unusable material shall be disposed of by the Contractor at his expense. Cost of the work to be included in the contract unit price for EARTH EXCAVATION.

The proposed pipes for entrances and side roads shall be placed in line with the existing or proposed ditch line.

Connecting bands for corrugated metal pipes shall be metal and shall be coated with the same material as the pipe sections. The connecting bands shall be a minimum of 18" wide.

Lateral distances from the centerline on all inlets are to the face of the inlet.

Where field tile is encountered, storm sewer or pipe drain will be used in accordance with Section 611. The minimum size for replacement will be 150 mm (6") for Pipe Drains and 200 mm (8") for Storm Sewer, but the size must be at least 50 mm (2") larger than the adjoining tile. A Field Tile Junction Vault will be constructed at the right of way to connect the tile and storm sewer. See the Summary of Quantities for the estimated quantities.

Embankment quantities for the construction of the Traffic Barrier Terminals as shown in the plans are included in quantities for Furnished Excavation.

The Contractor shall supply the Resident Engineer with the manufacturer's installation requirements for the type of Steel Plate Beam Guardrail Terminal Type 1 Special (Tangent) or Steel Plate Beam Guardrail Terminal Type I Special (Flared).

One 16d galvanized nail shall be used to toe nail the wood block out to the wood post on all Traffic Barrier Terminal Type I Specials.

Delineators shall be installed as shown in Standard 635001, except that the post shall be rotated 180° and only metal-backed delineators shall be permitted. Delineators shall be placed at the ends of approach guardrail terminal sections, and at each headwall or end section of AR Culverts. This work will be paid for at the contract unit price each for DELINEATORS.

FILE NAME = 64D57.GN.DOCX	USER NAME =	DESIGNED - Engineering Systems	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			FAP 316	102BR-5, 102BR-6 & 102BR-7	Lee	216	8
	PLOT SCALE =	CHECKED -	REVISED -			(IL 26)		CONTRACT NO. 64D57		
	PLOT DATE = 8/22/2011 1:22 PM	DATE - 7/15/2011 11:07 AM	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

Pavement Marking shall be done according to Standard 780001, except as follows:

1. All words, such as ONLY, shall be 2.4 m (8 feet) high.
2. All non-freeway arrows shall be the large size.
3. The distance between yellow no-passing lines shall be 200 mm (8"), not 180 mm (7") as shown in the detail of Typical Lane and Edge Lines.

PERMANENT SURVEY MARKERS, TYPE II, shall be set at intervals of 1.6 Km (1 mile) or as directed by the Engineer. Bridge or culvert projects shall have one survey marker placed near the structure. Estimated: 4 Each.

Permanent Survey Markers, Type II shall be cast-in-place as shown on District Standard 66.2. The bottom of the marker shall be 5'-0" below the ground surface.

The Contractor shall submit to the Engineer a description of location, elevation, and coordinates for each permanent survey marker. The horizontal and vertical coordinates must be derived by GPS and the elevation derived by a closed level circuit. The Engineer shall submit this information to the Survey Crew.

Tree planting layout shall be performed by the District Landscape Architect. Mulch shall be placed 4" thick and to the diameter around the tree as shown on District Standard 92.1. The mulch shall be hardwood wood chips placed on weed barrier fabric. This work shall be included in the cost of the tree.

Aggregate Base Course, Type B, is provided in the plan quantities and shall be used only as needed when directed by the Engineer.

Right-of-way markers will be erected with the back face of the marker on the right-of-way line unless the new right-of-way line has been surveyed and pinned, in which instance the right-of-way markers will be erected 300 mm (12 inches) inside the new right-of-way line.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

CenturyTel 309/345-5240
Frontier 815/895-1515
BIG SKY WIND / Edison Mission Energy (815) 376-2370
Commonwealth Edison Co. 815/490-2869
NICOR Gas Co. 630/983-8676

CADD data will be available to Contractors and Consultants working on this project. This information will be provided upon request as MicroStation CADD files and Geopak coordinate geometry files ONLY. If data is required in other formats it will be your responsibility to make these conversions. If any discrepancy or inconsistency arises between the electronic data and the information on the hard copy, the information on the hard copy should be used. Contact the District's Project Engineer to request these files.

The applicable portions of Article 105.07 of the Standard Specification shall apply except for the following: The Contractor shall be responsible to locate the vertical depths of the underground utilities which may interfere with construction operations. This work will not be measured or paid for separately, but shall be considered as included in the unit bid price for the item of construction involved.

Per SB 699 (90 day utility relocation law), once right-of-way is clear to award the project, a notice will be sent to the utility companies instructing them to have their facilities relocated within 90 days. Estimated date relocation complete = Award Date + 100 days.
Previously pugmilled stockpiles of "Type A" older than 1 month will not be approved for use until a moisture check is run to verify moisture content. Material shipped to projects without being tested will not be accepted.

Box culverts that are stage constructed and undercut by more than 600 mm (2 feet) shall have lean concrete placed on the rock fill at the stage line. The concrete shall retain the rock fill until the second stage rock fill is placed. This work will be included in the pay item for the type of rock fill used.

The temporary concrete barrier shall be anchored to the pavement with 6 anchors per section at the following locations:

Sta. 310+00 to 313+300 SN 052-0081 Stages 1 & 2
Sta. 324+70 to 326+50 SN 052-2031 Stages 1 & 2
Sta. 416+50 to 423+85 SN 052-0080 Stage 1
Sta. 416+40 to 423+80 SN 052-0080 Stage 2

The Contractor shall coordinate with BLAKE CONNOLLY OF BIG SKY WIND / Edison Mission Energy, who owns the wind turbine transmission line, or any other utility companies prior to placement of permanent sheet piling. removal of trees and

Temporary Impact Attenuators will be measured as each for each attenuator supplied on the job as specified in the plans, and shall include the cost of renting/owning the attenuator for the time required on the job plus hauling to and from the project site, as well as one placement and removal from the roadway. This shall be paid for at the contract unit price per Each for IMPACT ATTENUATORS, TEMPORARY of the type specified.

Relocate Temporary Impact Attenuators will be paid for as Each and will be paid for each time the attenuator is required by staging to be picked up and moved to a different location on the project, whether it is to another location on the roadway or to a storage/staging location for the project. This shall be paid for at the contract unit price per Each for IMPACT ATTENUATORS, RELOCATE of the type specified.

This work shall be done in accordance with Section 704 of the Standard Specifications. Temporary Concrete Barrier will be measured in feet along the centerline of the barrier and shall include the cost of renting/owning the barrier for the time required on the job plus hauling to and from the project site, as well as one placement and removal from the roadway in accordance with Section 704 of the Standard Specification. This shall be paid for at the contract unit price per Foot for TEMPORARY CONCRETE BARRIER.

Relocate Temporary Concrete Barrier will be paid for in Feet along the centerline of the barrier, and will be paid for each time the barrier is required by staging to be picked up and moved to a different location on the project, whether it is to another location on the roadway or to a storage/staging location for the project. This shall be paid for at the contract unit price per Foot for RELOCATE TEMPORARY CONCRETE BARRIER.

Biological Commitments:

1. Two jurisdictional wetlands are located in the project area. Site #1 near the Green River Bridge shall not be impacted. Site #2 near the Old Green River Channel will receive 0.046 acre of impacts.

2. The jurisdictional wetlands are shown on the Wetland Sheets. There shall be no impacts to the wetlands beyond the construction limits shown on the contract plans. No construction activities, including equipment and material storage, driving vehicles and equipment, shall take place beyond the construction limits shown on the contract plans to avoid further impacts to these wetlands.

3. The foreslopes behind the guardrail at the Old Green River Channel will be steepened (1:3) to decrease impacts to wetlands and endangered and threatened species.

4. Permanent sheet pile will be installed on the downstream side of the Old Green River Channel to hold the rip rap against the culvert and minimize impacts to the wetland.

5. No rip rap shall be placed beyond 44.13 feet from the centerline on both sides of the Old Green River Channel culvert to minimize wetland impacts.

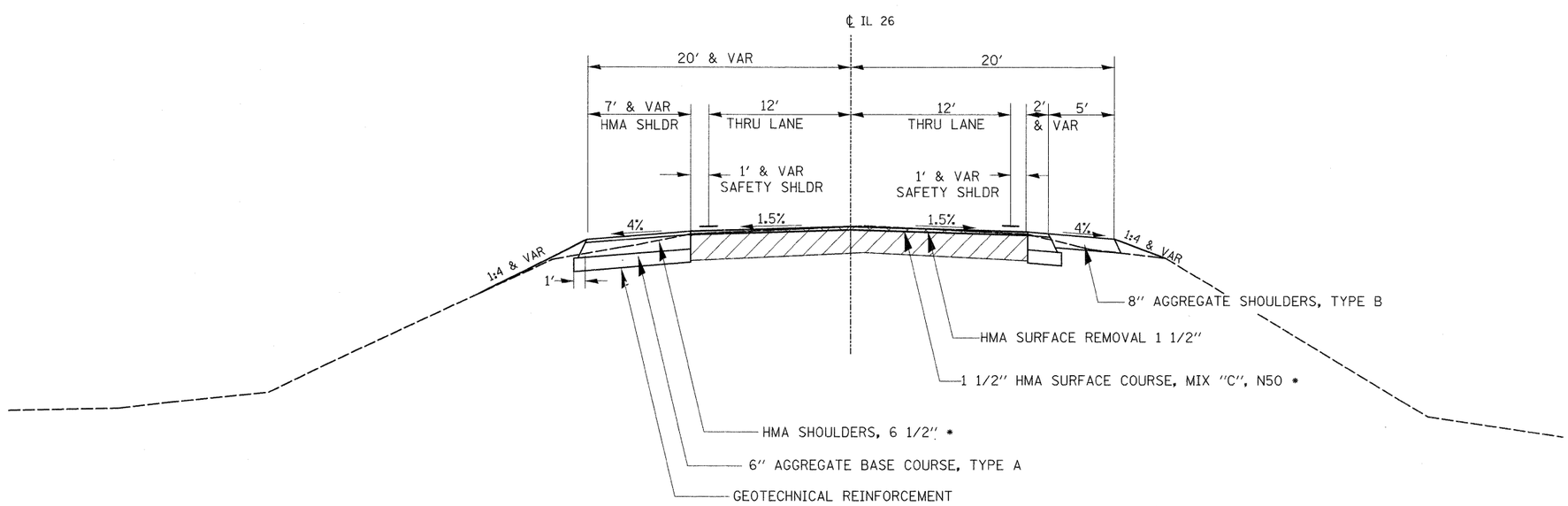
6. All construction workers on this project shall be instructed not to kill any snakes or turtles, as they may be a threatened or endangered species.

Rev.

FILE NAME = 64D57.GN.DOCX	USER NAME =	DESIGNED - Engineering Systems	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	ROUTE	SECTION	COUNTY / TOTAL SHEETS / SHEET NO.
		DRAWN -	REVISED -			FAP 316	102BR-5, 102BR-6 & 102BR-7	Lee / 216 / 9
	PLOT SCALE =	CHECKED -	REVISED -			(IL 26)		CONTRACT NO. 64D57
	PLOT DATE = 8/22/2011 1:22 PM	DATE - 7/15/2011 11:07 AM	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT

TYPICAL SECTIONS

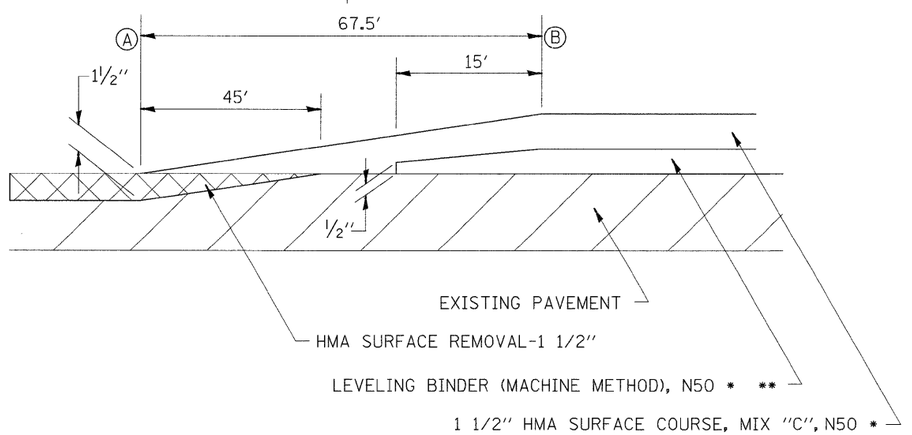
STA 314+62.50 - 315+40.44



STA. A	STA. B
308+57.50	309+25.00
314+62.50	313+95.00
322+82.50	323+50.00
328+87.50	328+20.00
416+07.50	416+75.00
424+17.50	423+50.00

*** 40600625-LEVEL BINDER (MM), N50 VOLUME (CU YD) DETERMINATION

STA.	PROP. ℄ ELEV	EX. ℄ ELEV	DIFF. IN ELEV	AREA (FT^2)	VOLUME (CU YD)
308+57.50	701.65	701.64	.01	1.90	1.05
309+25.00	701.13	700.95	.18	3.99	15.43
310+29.37	700.24	699.90	.34		
312+61.87	697.86	697.51	.36	4.27	21.06
313+95.00	696.63	696.45	.18		
416+75.00	702.26	702.09	.17	19.82	213.33
419+65.63	702.01	700.45	1.57		
421+43.63	701.12	699.86	1.26	28.96	221.34
423+50.00	701.13	699.96	1.17		



EXISTING

REMOVAL

* 112 LB/SQ YD IN

** SEE HMA SCHEDULE WHERE WARRANTED

* 102BR-5, 102BR-6, & 102BR-7

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

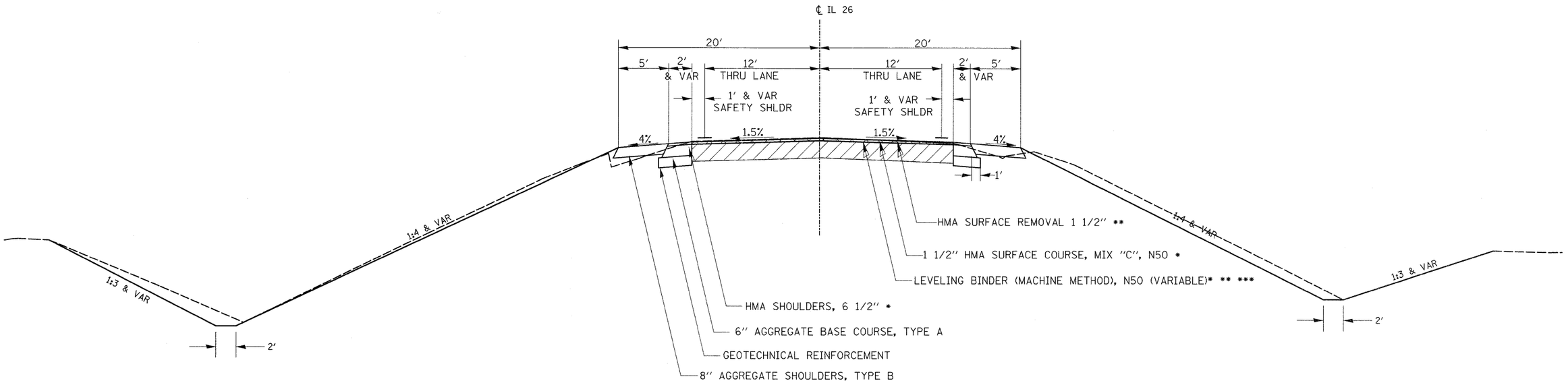
TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	10
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

TYPICAL SECTIONS

STA 322+00.00 - 322+82.50
STA 328+87.50 - 329+50.00



* 112 LB/SQ YD IN
** SEE HMA SCHEDULE WHERE WARRANTED

EXISTING
REMOVAL

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

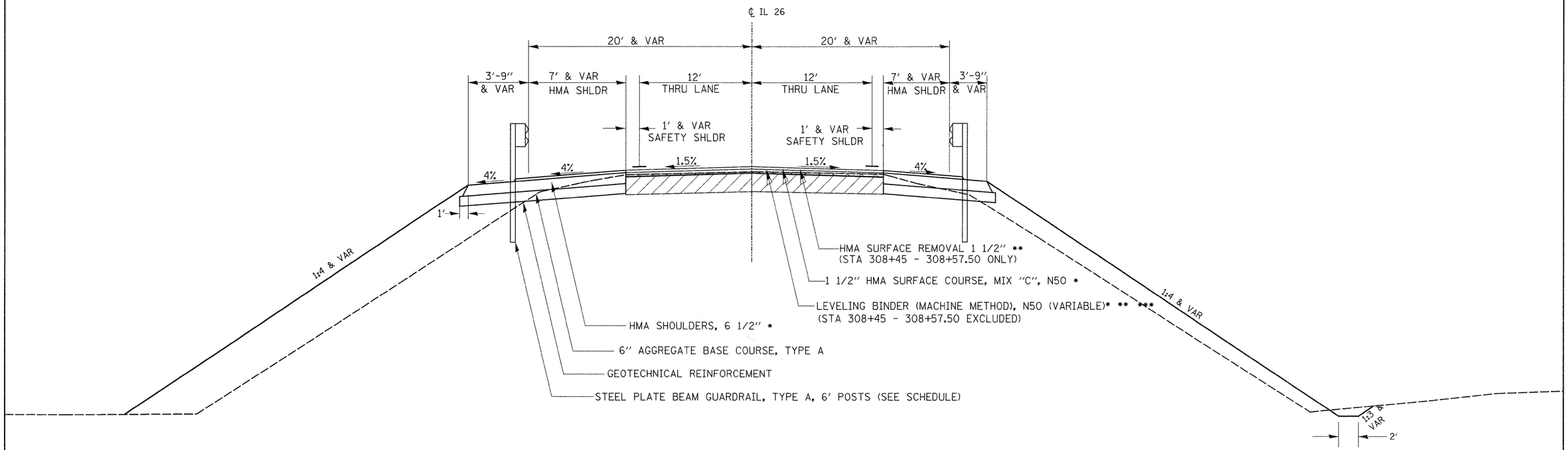
TYPICAL SECTIONS

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

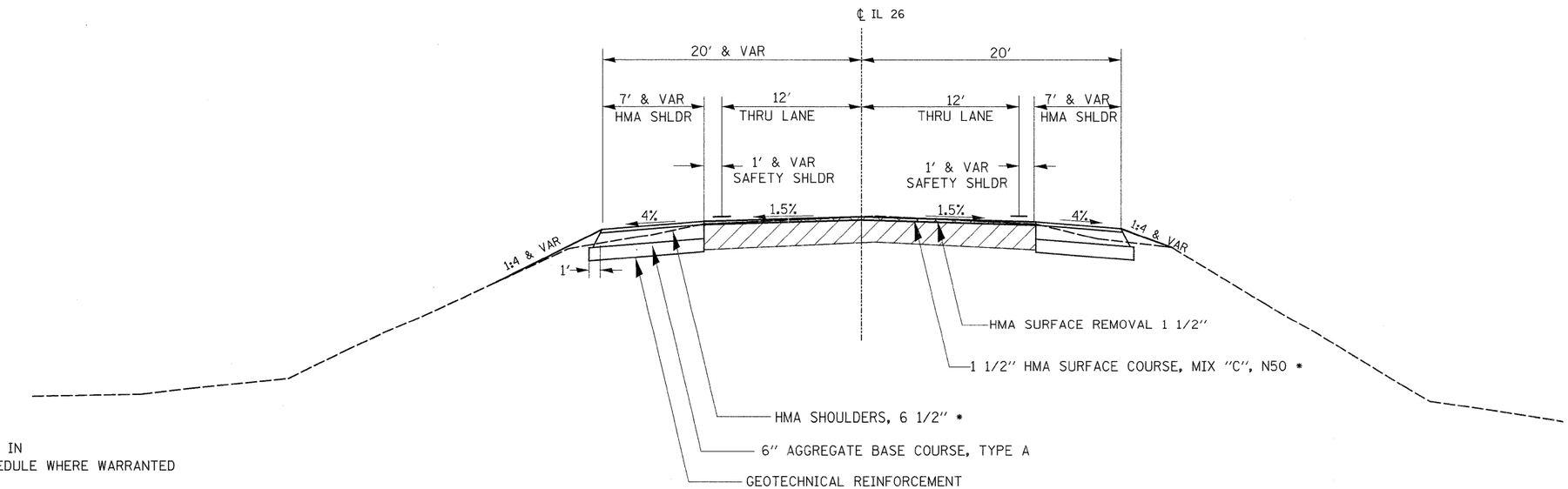
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	11
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			

TYPICAL SECTIONS

STA 308+45.00 - 308+57.50
STA 309+25.00 - 310+29.37
STA 312+61.87 - 313+95.00
STA 416+75.00 - 419+65.63
STA 421+43.63 - 423+50.00



STA 415+25.00 - 416+07.50
STA 424+17.50 - 425+00.00



* 112 LB/SQ YD IN
** SEE HMA SCHEDULE WHERE WARRANTED

EXISTING
REMOVAL

* 102BR-5, 102BR-6, & 102BR-7

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

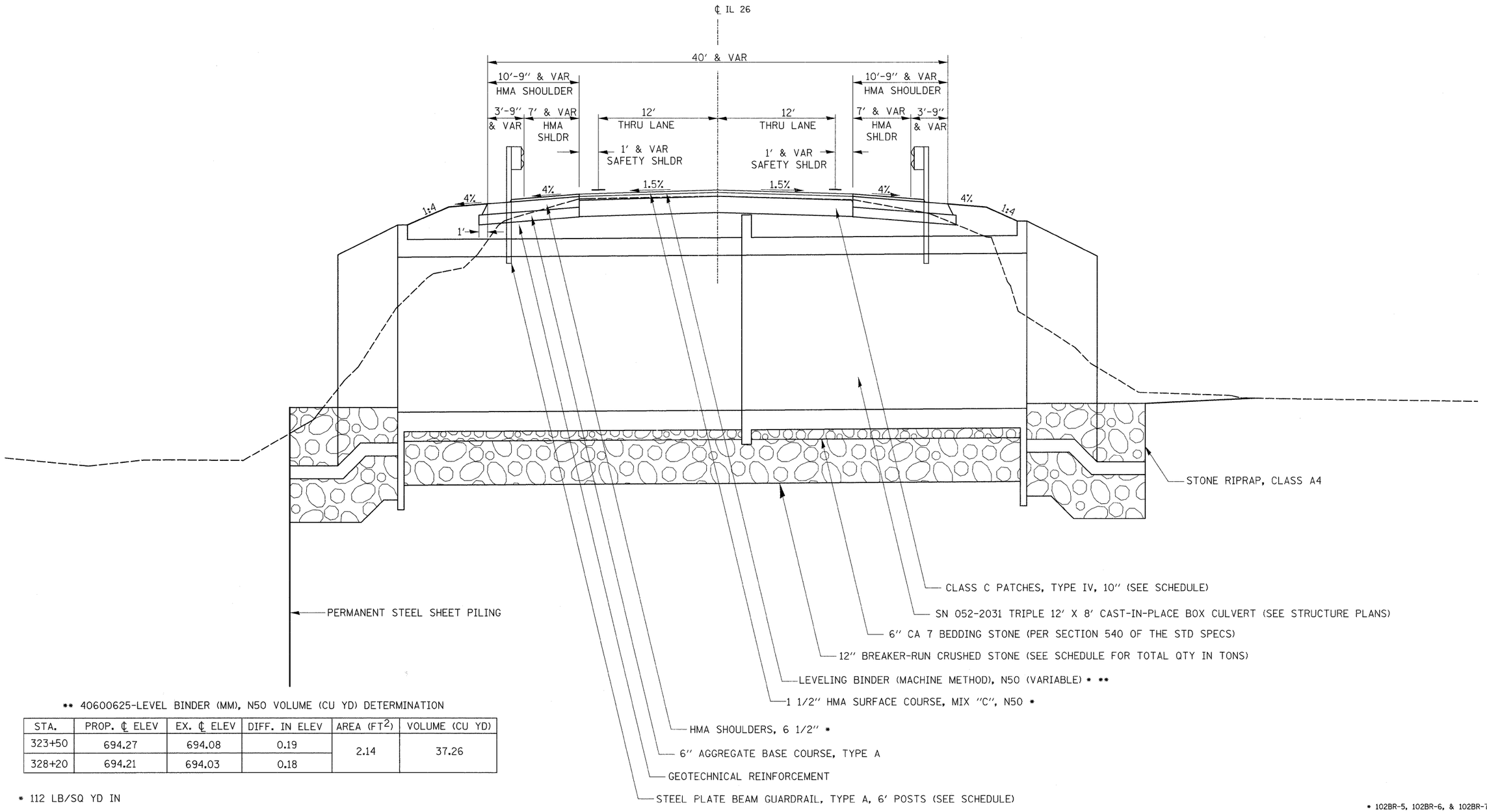
TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	12
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

TYPICAL SECTIONS

STA 323+50.00 - STA 328+20.00



** 40600625-LEVEL BINDER (MM), N50 VOLUME (CU YD) DETERMINATION

STA.	PROP. ℄ ELEV	EX. ℄ ELEV	DIFF. IN ELEV	AREA (FT^2)	VOLUME (CU YD)
323+50	694.27	694.08	0.19	2.14	37.26
328+20	694.21	694.03	0.18		

* 112 LB/SQ YD IN

* 102BR-5, 102BR-6, & 102BR-7

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

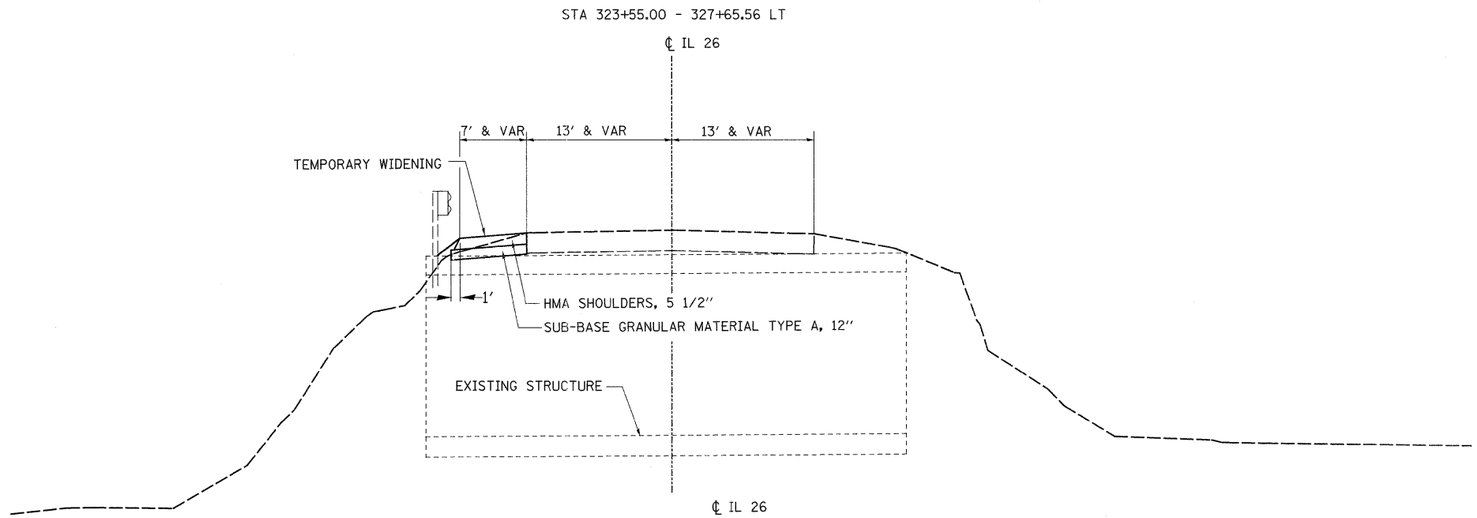
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	13
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			

STAGING TYPICAL SECTIONS

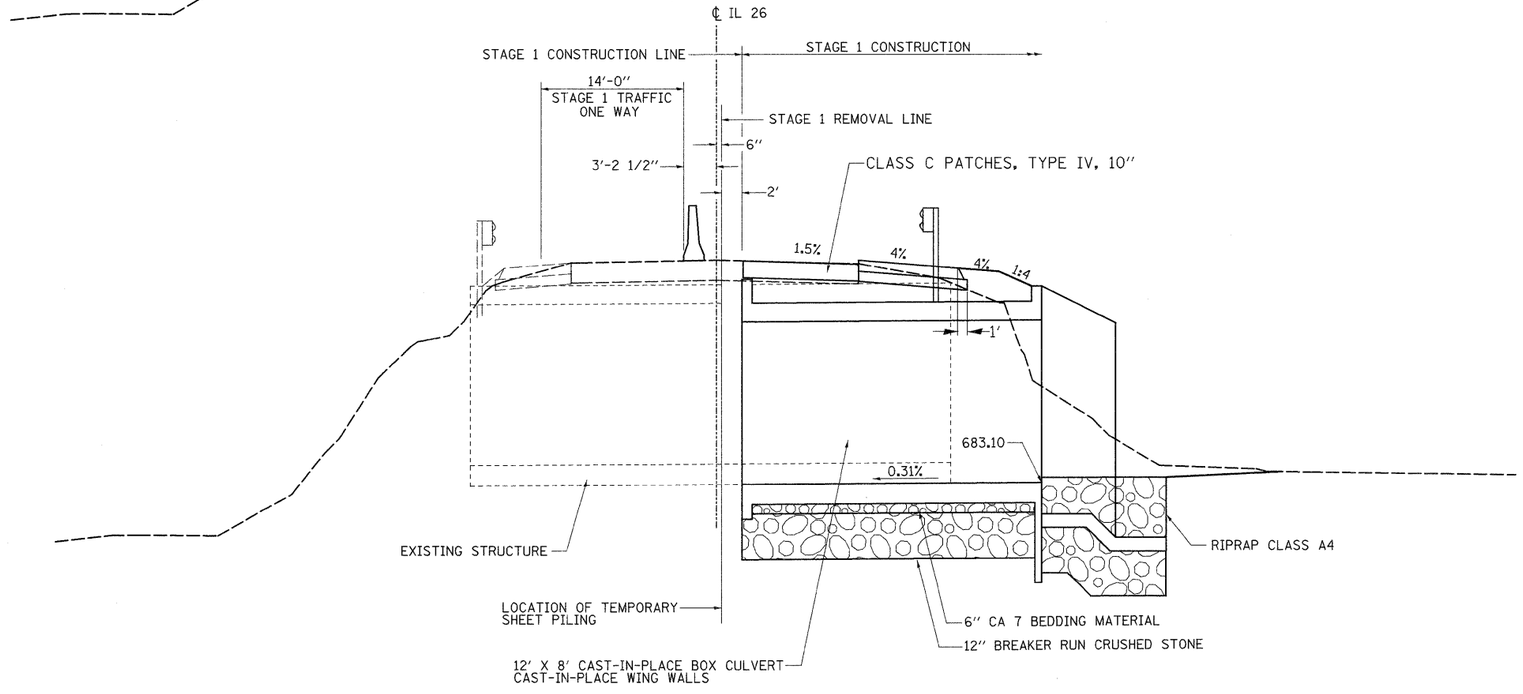
12'x8' Cast–In–Place Box Culvert 25^0 Skew

STA. 325 + 58

PRE–STAGE 1



STAGE 1



• 102BR-5, 102BR-6, & 102BR-7

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		DRAWN -	REVISED -					316	*	LEE	216	14
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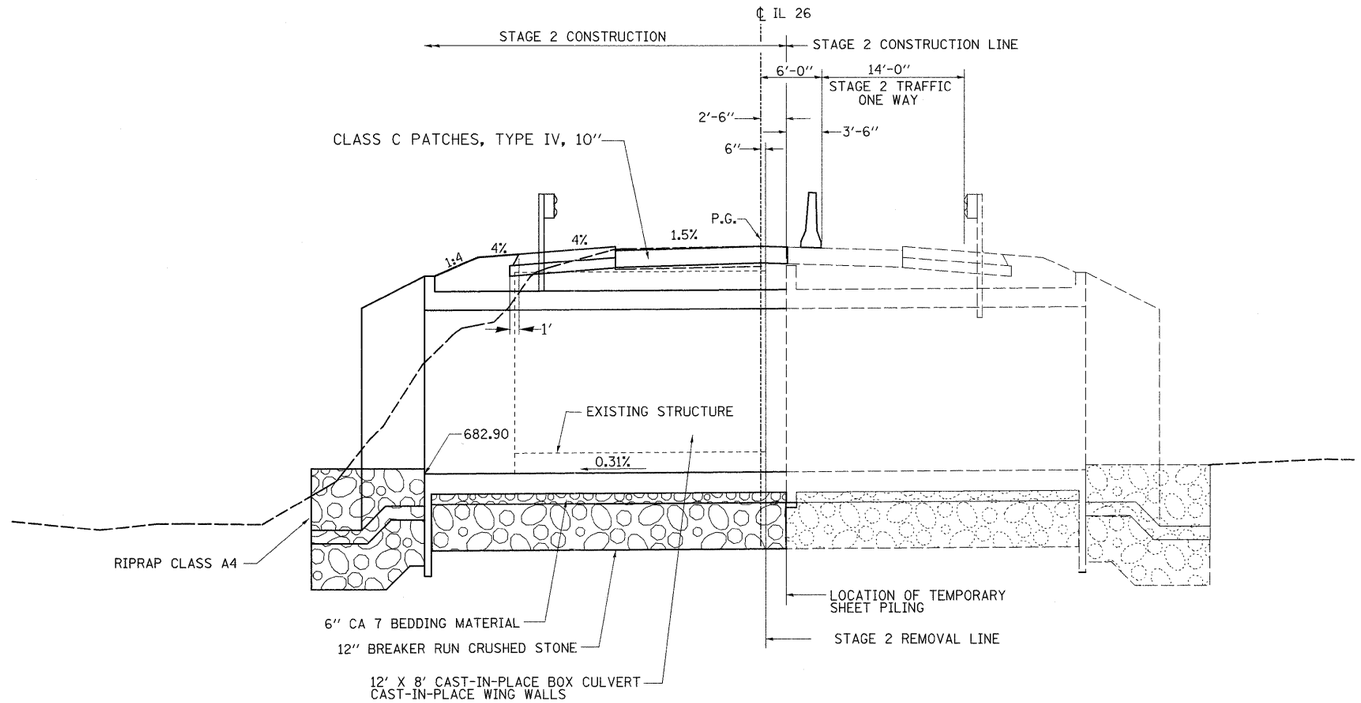
	PLOT DATE = Tue Aug 23 06:26:19 2011	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.			ILLINOIS FED. AID PROJECT		

STAGING TYPICAL SECTIONS

12'x8' Cast–In–Place Box Culvert 25° Skew

STA. 325 + 58

STAGE 2



• 102BR-5, 102BR-6, & 102BR-7

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		DATE -	REVISED -						

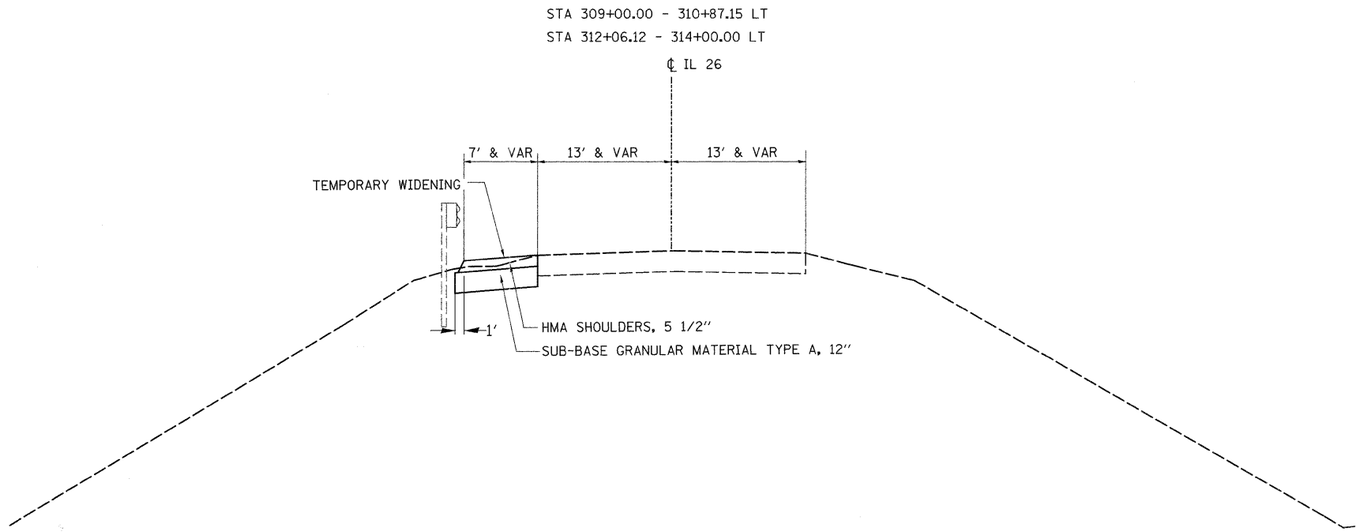
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	15
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

STAGING TYPICAL SECTIONS

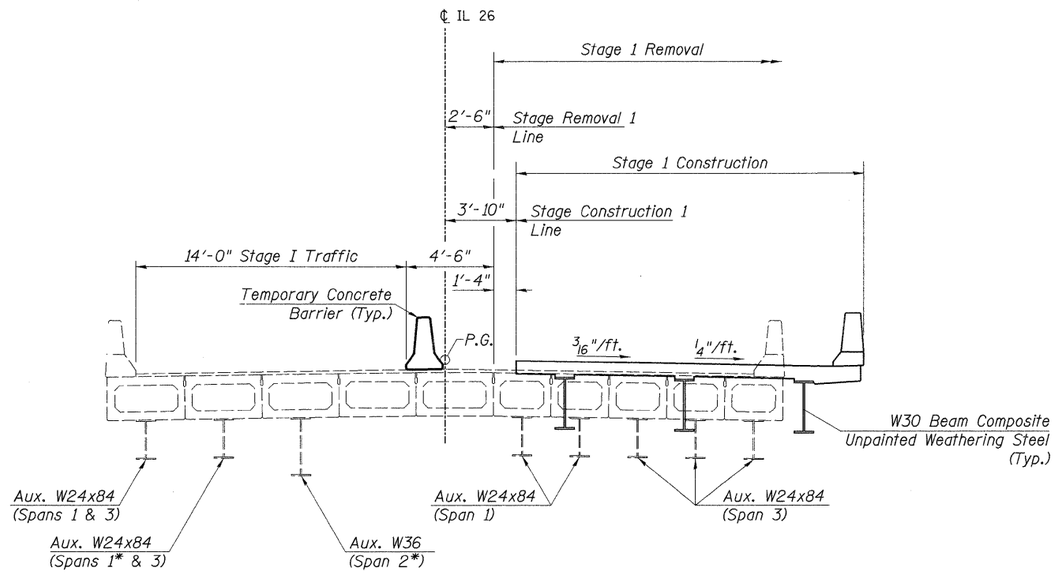
3–SPAN CONTINUOUS STEEL COMPOSITE WIDE FLANGE BEAM BRIDGE

STA. 311 + 45.62

PRE–STAGE 1



STAGE 1



(Looking North)

• 102BR-5, 102BR-6, & 102BR-7

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

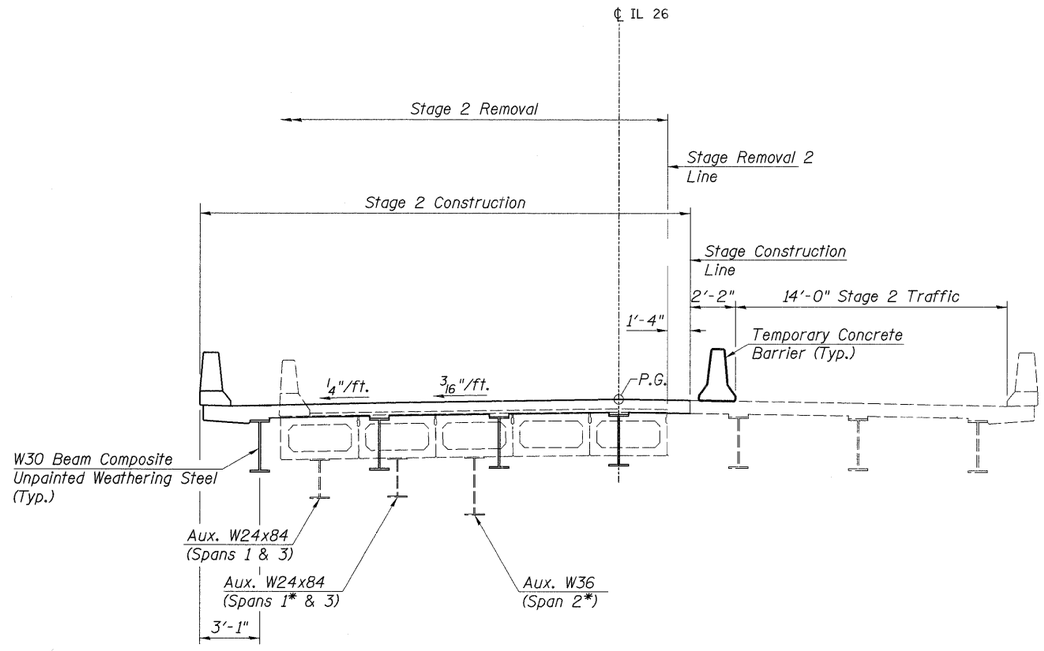
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	16
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			

STAGING TYPICAL SECTIONS

3–SPAN CONTINUOUS STEEL COMPOSITE WIDE FLANGE BEAM BRIDGE

STA. 311 + 45.62

STAGE 2



* 102BR-5, 102BR-6, & 102BR-7

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	17
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			

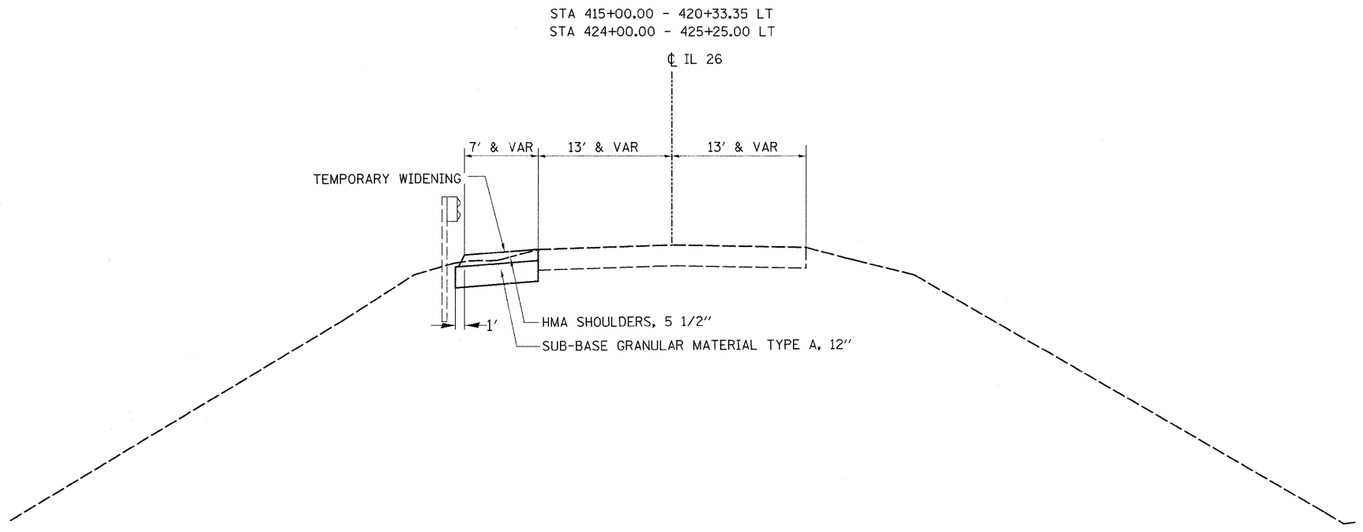
STAGING TYPICAL SECTIONS

3–SPAN CONTINUOUS STEEL COMPOSITE WIDE FLANGE BEAM BRIDGE

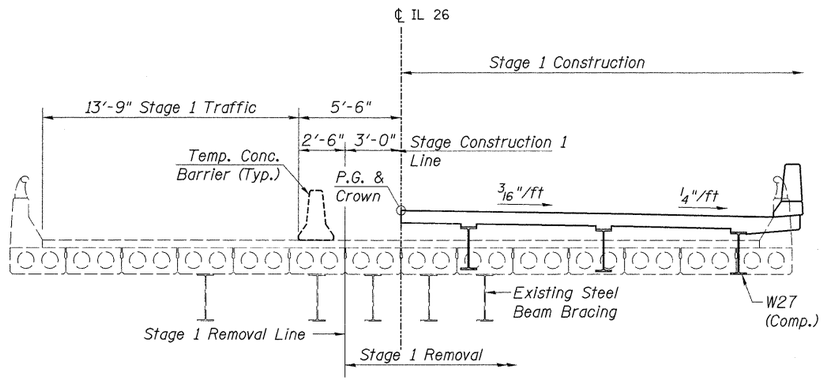
STA. 420 + 54.63

STA 415+00.00 - 420+33.35 LT
STA 424+00.00 - 425+25.00 LT

PRE–STAGE 1



STAGE 1



(Looking North)

Notes:

The condition of the existing deck beams for the duration of Stage I Traffic should be verified during final design. If their condition changes, the proposed staging sequence shall be re-evaluated. If a beam replacement, or beam support contract is required, the designer shall provide the necessary plans.

Under a separate contract, several of the deteriorated PPC deck beams have been braced with steel W beams.

Stage I Traffic is based on the 5-3-2007 Damage Inspection Report.

Underwater Structure Excavation Protection shall be provided at each pier.

• 102BR-5, 102BR-6, & 102BR-7

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

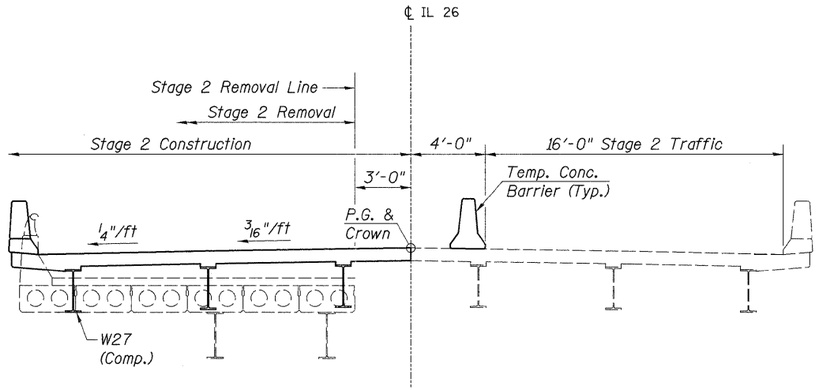
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	18
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

STAGING TYPICAL SECTIONS

3–SPAN CONTINUOUS STEEL COMPOSITE WIDE FLANGE BEAM BRIDGE

STA. 420 + 54.63



STAGE 2

(Looking North)

Notes:

The condition of the existing deck beams for the duration of Stage I Traffic should be verified during final design. If their condition changes, the proposed staging sequence shall be re-evaluated. If a beam replacement, or beam support contract is required, the designer shall provide the necessary plans.

Under a separate contract, several of the deteriorated PPC deck beams have been braced with steel W beams.

Stage I Traffic is based on the 5-3-2007 Damage Inspection Report.

Underwater Structure Excavation Protection shall be provided at each pier.

• 102BR-5, 102BR-6, & 102BR-7

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	19
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

UNIT	LOCATION		COMMENTS
9.2	Lt. Sta.	308 + 12.1	54.7' o/s
6.2	Rt. Sta.	313 + 53.2	43.0' o/s
12.3	Lt. Sta.	325 + 88.9	37.0' o/s
6.2	Lt. Sta.	325 + 93.8	32.6' o/s
12.2	Lt. Sta.	326 + 05.0	37.3'o/s
11.3	Lt. Sta.	326 + 08.0	38.3' o/s
11.3	Lt. Sta.	419 + 76.2	56.0' o/s
9.2	Lt. Sta.	420 + 00.7	45' o/s
6.8	Lt. Sta.	420 + 03.4	41.9' o/s
10.1	Lt. Sta.	420 + 10.9	62.8' o/s
10.4	Lt. Sta.	420 + 13.6	49.7' o/s
10.0	Lt. Sta.	420 + 19.1	37.4' o/s
10.2	Lt. Sta.	420 + 19.8	39.0' o/s
8.8	Lt. Sta.	420 + 20.2	41.6' o/s
10.0	Lt. Sta.	420 + 20.2	41.6' o/s
6.1	Lt. Sta.	420 + 64.0	47.7' o/s
150	TOTAL		

20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)

UNIT	LOCATION		COMMENTS
35.5	Lt. Sta.	324 + 81.0	36.3' o/s
16.8	Lt. Sta.	325 + 09.1	39.9' o/s
29.3	Rt. Sta.	325 + 32.8	36.6' o/s
44.8	Rt. Sta.	326 + 21.1	26.2' o/s
54.6	Lt. Sta.	419 + 91.8	40.2' o/s
15.1	Lt. Sta.	420 + 24.7	61.0' o/s
196	TOTAL		

20201200 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL

CU YD	LOCATION				COMMENTS
8.8	Sta.	324 + 97	-	325 + 06.20	Underneath Patch Outside Trench Backfill
7.4	Sta.	326 + 15.13	-	326 + 23	Underneath Patch Outside Trench Backfill
16	TOTAL				

28000305 TEMPORARY DITCH CHECKS

FOOT	LOCATION		COMMENTS
13	Rt. Sta.	308 + 05.0	73.50' o/s
13	Rt. Sta.	309 + 02.5	64.00' o/s
13	Rt. Sta.	310 + 00.0	50.40' o/s
13	Rt. Sta.	326 + 23.9	42.80' o/s
13	Lt. Sta.	326 + 50.0	37.09' o/s
13	Rt. Sta.	327 + 76.1	42.10' o/s
13	Lt. Sta.	328 + 00.0	32.22' o/s
13	Rt. Sta.	329 + 26.1	28.30' o/s
13	Lt. Sta.	415 + 87.5	34.20' o/s
13	Lt. Sta.	416 + 70.0	37.67' o/s
13	Lt. Sta.	417 + 52.5	41.68' o/s
13	Lt. Sta.	418 + 35.0	45.68' o/s
13	Rt. Sta.	418 + 74.8	33.90' o/s
13	Lt. Sta.	419 + 17.5	56.03' o/s
13	Rt. Sta.	419 + 25.3	34.56' o/s
13	Rt. Sta.	419 + 75.3	34.41' o/s
13	Lt. Sta.	420 + 00.0	58.61' o/s
13	Lt. Sta.	421 + 00.0	56.25' o/s
13	Rt. Sta.	421 + 00.0	57.93' o/s
13	Lt. Sta.	422 + 50.0	59.08' o/s
13	Rt. Sta.	422 + 57.3	58.82' o/s
13	Lt. Sta.	424 + 00.0	58.16' o/s
13	Rt. Sta.	424 + 62.7	51.24' o/s
299	TOTAL		

28000400 PERIMETER EROSION BARRIER

FOOT	LOCATION				COMMENTS
284.6	Lt. Sta.	307 + 95.0	-	310 + 75.1	78.3' o/s To 56.5' o/s
254.6	Lt. Sta.	312 + 22.8	-	314 + 76.3	51.1' o/s To 60.0' o/s
316.2	Rt. Sta.	312 + 20.0	-	315 + 32.4	50.1' o/s To 44.3' o/s
299.8	Lt. Sta.	322 + 00.0	-	324 + 98.2	38.9' o/s To 49.0' o/s
29.9	Rt. Sta.	322 + 04.7	-	322 + 34.6	38.0' o/s To 40.3' o/s
278.2	Rt. Sta.	322 + 65.2	-	325 + 39.0	38.9' o/s To 50.6' o/s
147.6	Lt. Sta.	328 + 03.5	-	329 + 50.4	38.2' o/s To 24.2' o/s
118.4	Rt. Sta.	415 + 51.2	-	416 + 68.2	31.4' o/s To 39.5' o/s
114.7	Rt. Sta.	417 + 11.4	-	418 + 25.0	37.3' o/s To 42.3' o/s
1,844	TOTAL				

28000500 INLET AND PIPE PROTECTION

EACH	LOCATION	
1	Rt. Sta.	325 + 74.05
1	Rt. Sta.	416 + 56.51
1	Rt. Sta.	423 + 80.90
3	TOTAL	

28100107 STONE RIPRAP, CLASS A4

SQ YD	LOCATION				COMMENTS
58.4	Lt. Sta.	325 + 09.36	-	325 + 71.83	SN 052-2031
64.5	Rt. Sta.	325 + 41.71	-	326 + 04.31	SN 052-2031
123	TOTAL				

28100109 STONE RIPRAP, CLASS A5

SQ YD	LOCATION				COMMENTS
1194.0	Sta.	310 + 86.11	-	311 + 24.90	SN 052-0081
34.2	Lt. Sta.	419 + 98.75	-	420 + 37.40	Ditch Lining
1085.0	Sta.	420 + 02.05	-	421 + 06.51	SN 052-0080
38.7	Rt. Sta.	420 + 62.45	-	420 + 97.33	Ditch Lining
32.6	Lt. Sta.	420 + 68.76	-	421 + 00.62	Ditch Lining
2,384	TOTAL				

28200200 FILTER FABRIC

SQ YD	LOCATION				COMMENTS
1194.0	Sta.	310 + 86.11	-	311 + 24.90	SN 052-0081
58.4	Lt. Sta.	325 + 09.36	-	325 + 71.83	SN 052-2031
64.5	Rt. Sta.	325 + 41.71	-	326 + 04.31	SN 052-2031
34.2	Lt. Sta.	419 + 98.75	-	420 + 37.40	Ditch Lining
1085.0	Sta.	420 + 02.05	-	421 + 06.51	SN 052-0080
38.7	Rt. Sta.	420 + 62.45	-	420 + 97.33	Ditch Lining
32.6	Lt. Sta.	420 + 68.76	-	421 + 00.62	Ditch Lining
2,507	TOTAL				

31100910 SUBBASE GRANULAR MATERIAL, TYPE A 12"

SQ YD	LOCATION				COMMENTS
101.0	Lt. Sta.	309 + 00.00	-	310 + 85.17	SN 052-0081 - Stage 1A
97.1	Lt. Sta.	312 + 06.13	-	314 + 00.00	SN 052-0081 - Stage 1A
331.7	Lt. Sta.	323 + 55.09	-	327 + 65.57	SN 052-2031 - Stage 1A
467.0	Lt. Sta.	415 + 00.00	-	420 + 33.36	SN 052-0080 - Stage 1A
117.2	Lt. Sta.	424 + 00.00	-	425 + 25.00	SN 052-0080 - Stage 1A
1113.9	TOTAL				

35100100 AGGREGATE BASE COURSE, TYPE A

TON	LOCATION				COMMENTS
5.57	Lt. Sta.	310 + 29.4	-	310 + 65.4	8" Underneath Incidental Hot-Mix Asphalt
5.57	Rt. Sta.	310 + 29.4	-	310 + 65.4	8" Underneath Incidental Hot-Mix Asphalt
8.60	Lt. Sta.	312 + 25.9	-	312 + 76.9	8" Underneath Incidental Hot-Mix Asphalt
8.60	Rt. Sta.	312 + 25.9	-	312 + 76.9	8" Underneath Incidental Hot-Mix Asphalt
5.08	Rt. Sta.	312 + 61.87	-	312 + 76.87	8" Underneath PCC Shoulders 8"
5.72	Lt. Sta.	312 + 61.87	-	312 + 76.87	8" Underneath PCC Shoulders 8"
5.55	Lt. Sta.	419 + 65.6	-	420 + 01.6	8" Underneath Incidental Hot-Mix Asphalt
5.38	Rt. Sta.	419 + 65.6	-	420 + 01.6	8" Underneath Incidental Hot-Mix Asphalt
8.62	Lt. Sta.	421 + 07.6	-	421 + 58.6	8" Underneath Incidental Hot-Mix Asphalt
8.62	Rt. Sta.	421 + 07.6	-	421 + 58.6	8" Underneath Incidental Hot-Mix Asphalt
5.17	Rt. Sta.	421 + 43.63	-	421 + 58.63	8" Underneath PCC Shoulders 8"
5.50	Lt. Sta.	421 + 43.63	-	421 + 58.63	8" Underneath PCC Shoulders 8"
1472.58	Various HMA SHOULDER Locations				See "HOT-MIX ASPHALT SCHEDULE"
1,551	TOTAL				

35101400 AGGREGATE BASE COURSE, TYPE B

TON	LOCATION		COMMENTS
75.37	Lt. Sta.	314 + 98.52	Field Entrance
65.65	Rt. Sta.	322 + 50.00	Field Entrance
59.30	Rt. Sta.	416 + 91.35	Field Entrance
77.40	Rt. Sta.	423 + 47.65	Field Entrance
278	TOTAL		

40800050 INCIDENTAL HOT-MIX ASPHALT SURFACING

TON	LOCATION				COMMENTS
1.72	Lt. Sta.	310 + 29.4	-	310 + 65.4	3" Thick behind CONCRETE CURB (SPECIAL)
1.72	Rt. Sta.	310 + 29.4	-	310 + 65.4	3" Thick behind CONCRETE CURB (SPECIAL)
2.70	Lt. Sta.	312 + 25.9	-	312 + 76.9	3" Thick behind CONCRETE CURB (SPECIAL)
2.70	Rt. Sta.	312 + 25.9	-	312 + 76.9	3" Thick behind CONCRETE CURB (SPECIAL)
1.71	Lt. Sta.	419 + 65.6	-	420 + 01.6	3" Thick behind CONCRETE CURB (SPECIAL)
1.65	Rt. Sta.	419 + 65.6	-	420 + 01.6	3" Thick behind CONCRETE CURB (SPECIAL)
2.70	Lt. Sta.	421 + 07.6	-	421 + 58.6	3" Thick behind CONCRETE CURB (SPECIAL)
2.70	Rt. Sta.	421 + 07.6	-	421 + 58.6	3" Thick behind CONCRETE CURB (SPECIAL)
18	TOTAL				

42001420 BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)

SQ YD	LOCATION				COMMENTS
27.9	Sta.	310 + 29.37	-	310 + 35.37	SN 052-0081
27.9	Sta.	312 + 55.87	-	312 + 61.87	SN 052-0081
28.0	Sta.	419 + 65.63	-	419 + 71.63	SN 052-0080
27.9	Sta.	421 + 37.63	-	421 + 43.63	SN 052-0080
112	TOTAL				

44004250 PAVED SHOULDER REMOVAL

SQ YD	LOCATION			
303	Lt. Sta.	309 + 82.62	-	310 + 85.54
251	Rt. Sta.	310 + 06.91	-	310 + 85.46
175	Lt. Sta.	312 + 05.91	-	312 + 59.22
257	Rt. Sta.	312 + 06.54	-	312 + 75.23
377	Lt. Sta.	420 + 76.03	-	424 + 03.98
279	Rt. Sta.	424 + 75.57	-	423 + 21.51
1,641	TOTAL			

44201359 CLASS C PATCHES, TYPE IV, 10 INCH

SQ YD	LOCATION				COMMENTS
147	Rt. Sta.	324 + 97	-	326 + 23	10'-6" Wide for Stage 1
217	Sta.	324 + 97	-	326 + 23	14'-6" Wide for Stage 2
364	TOTAL				

48203019 HOT-MIX ASPHALT SHOULDERS, 5 1/2"

SQ YD	LOCATION				COMMENTS
80.5	Lt. Sta.	309 + 00.00	-	310 + 85.17	SN 052-0081 - Stage 1A
75.5	Lt. Sta.	312 + 06.13	-	314 + 00.00	SN 052-0081 - Stage 1A
286.1	Lt. Sta.	323 + 55.09	-	327 + 65.57	SN 052-2031 - Stage 1A
407.7	Lt. Sta.	415 + 00.00	-	420 + 33.36	SN 052-0080 - Stage 1A
103.3	Lt. Sta.	424 + 00.00	-	425 + 25.00	SN 052-0080 - Stage 1A
953.0	TOTAL				

48300300 PORTLAND CEMENT CONCRETE SHOULDERS 8"

SQ YD	LOCATION				COMMENTS
10.3	Rt. Sta.	312 + 61.87	-	312 + 76.87	SN 052-0081
11.7	Lt. Sta.	312 + 61.87	-	312 + 76.87	SN 052-0081
10.5	Rt. Sta.	421 + 43.63	-	421 + 58.63	SN 052-0080
11.2	Lt. Sta.	421 + 43.63	-	421 + 58.63	SN 052-0080
44	TOTAL				

542D0223 PIPE CULVERTS, CLASS D, TYPE 118"

FOOT	LOCATION				COMMENTS
58	Rt. Sta.	416 + 62.35	-	417 + 20.35	Field Entrance
58	TOTAL				

542D0229 PIPE CULVERTS, CLASS D, TYPE 124"

FOOT	LOCATION				COMMENTS
52	Rt. Sta.	423 + 21.65	-	423 + 73.65	Field Entrance
52	TOTAL				

• 102BR-5, 102BR-6 & 102BR-7

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	20
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			

54213447 END SECTIONS 12"

EACH	LOCATION	
1	Rt. Sta.	312 + 68.76
1	Lt. Sta.	312 + 68.76
1	Rt. Sta.	421 + 50.11
1	Lt. Sta.	421 + 50.11
4	TOTAL	

54213453 END SECTIONS 18"

EACH	LOCATION	
1	Rt. Sta.	416 + 62.35
1	Rt. Sta.	417 + 20.35
2	TOTAL	

54213459 END SECTIONS 24"

EACH	LOCATION	
1	Rt. Sta.	423 + 21.65
1	Rt. Sta.	423 + 73.65
2	TOTAL	

54215408 CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 8"

EACH	LOCATION
1	Contingency for Field Tile
1	TOTAL

54215410 CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 10"

EACH	LOCATION
1	Contingency for Field Tile
1	TOTAL

54215412 CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 12"

EACH	LOCATION
1	Contingency for Field Tile
1	TOTAL

60100925 PIPE DRAINS 8"

FOOT	LOCATION
20	Contingency for Field Tile
20	TOTAL

60100935 PIPE DRAINS 10"

FOOT	LOCATION
20	Contingency for Field Tile
20	TOTAL

60100945 PIPE DRAINS 12"

FOOT	LOCATION		COMMENTS
23.5	Rt. Sta.	312 + 68.76	Outlet for "TYPE E INLET BOX"
24	Lt. Sta.	312 + 68.76	Outlet for "TYPE E INLET BOX"
37.5	Rt. Sta.	421 + 50.11	Outlet for "TYPE E INLET BOX"
36.5	Lt. Sta.	421 + 50.11	Outlet for "TYPE E INLET BOX"
20	Contingency for Field Tile		
142	TOTAL		

60900515 CONCRETE THRUST BLOCKS

EACH	LOCATION		COMMENTS
1	Rt. Sta.	312 + 68.76	SN 052-0081
1	Lt. Sta.	312 + 68.76	SN 052-0081
1	Rt. Sta.	421 + 50.11	SN 052-0080
1	Lt. Sta.	421 + 50.11	SN 052-0080
4	TOTAL		

61000115 TYPE E INLET BOX, STANDARD 610001

EACH	LOCATION		COMMENTS
1	Rt. Sta.	312 + 68.76	SN 052-0081
1	Lt. Sta.	312 + 68.76	SN 052-0081
1	Rt. Sta.	421 + 50.11	SN 052-0080
1	Lt. Sta.	421 + 50.11	SN 052-0080
4	TOTAL		

61100500 EXPLORATION TRENCH 52" DEPTH

FOOT	LOCATION
20	Contingency
20	TOTAL

61133100 FIELD TILE JUNCTION VAULTS, 2' DIA.

EACH	LOCATION
2	Contingency
2	TOTAL

63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS

FOOT	LOCATION				COMMENTS
75	Rt. Sta.	309 + 34.72	-	310 + 09.72	SN 052-0081
75	Lt. Sta.	312 + 81.52	-	313 + 56.52	SN 052-0081
112.5	Rt. Sta.	324 + 29.25	-	325 + 41.75	SN 052-2031
87.5	Lt. Sta.	324 + 36.36	-	325 + 23.86	SN 052-2031
62.5	Rt. Sta.	325 + 91.75	-	326 + 54.25	SN 052-2031
112.5	Lt. Sta.	325 + 73.86	-	326 + 86.36	SN 052-2031
75	Rt. Sta.	418 + 70.47	-	419 + 45.47	SN 052-0080
100	Rt. Sta.	421 + 62.77	-	422 + 62.77	SN 052-0080
700	TOTAL				

63000025 STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES

FOOT	LOCATION				COMMENTS
50	Lt. Sta.	325 + 23.86	-	325 + 73.86	SN 052-2031 (Case IV - Hwy Std 630101)
50	Rt. Sta.	325 + 41.75	-	325 + 91.75	SN 052-2031 (Case IV - Hwy Std 630101)
100	TOTAL				

63100085 TRAFFIC BARRIER TERMINAL, TYPE 6

EACH	LOCATION				COMMENTS
1	Lt. Sta.	310 + 09.72	-	310 + 55.37	SN 052-0081
1	Rt. Sta.	310 + 09.72	-	310 + 55.37	SN 052-0081
1	Lt. Sta.	312 + 35.87	-	312 + 81.52	SN 052-0081
1	Rt. Sta.	312 + 35.87	-	312 81.52	SN 052-0081
1	Lt. Sta.	419 + 45.47	-	419 + 91.12	SN 052-0080
1	Rt. Sta.	419 + 45.47	-	419 + 91.12	SN 052-0080
1	Lt. Sta.	421 + 17.12	-	421 + 62.77	SN 052-0080
1	Rt. Sta.	421 + 17.12	-	421 + 62.77	SN 052-0080
8					

63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

EACH	LOCATION				COMMENTS
1	Lt. Sta.	323 + 86.36	-	324 + 36.36	SN 052-2031
1	Lt. Sta.	422 + 62.77	-	423 + 12.77	SN 052-0080
2					

63100169 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED

EACH	LOCATION				COMMENTS
1	Rt. Sta.	308 + 84.72	-	309 + 34.72	SN 052-0081
1	Lt. Sta.	309 + 59.72	-	310 + 09.72	SN 052-0081
1	Rt. Sta.	312 + 81.52	-	313 + 31.52	SN 052-0081
1	Lt. Sta.	313 + 56.52	-	314 + 06.52	SN 052-0081
1	Rt. Sta.	323 + 79.25	-	324 + 29.25	SN 052-2031
1	Rt. Sta.	326 + 54.25	-	327 + 04.25	SN 052-2031
1	Lt. Sta.	326 + 86.36	-	327 + 36.36	SN 052-2031
1	Rt. Sta.	418 + 20.47	-	418 + 70.47	SN 052-0080
1	Lt. Sta.	418 + 95.47	-	419 + 45.47	SN 052-0080
1	Rt. Sta.	421 + 62.77	-	422 + 12.77	SN 052-0080
10					

63200310 GUARDRAIL REMOVAL

FOOT	LOCATION				COMMENTS
272.14	Rt. Sta.	307 + 94.98	-	310 + 67	SN 052-0081
172.05	Lt. Sta.	308 + 94.84	-	310 + 66.73	SN 052-0081
247.26	Rt. Sta.	312 + 24.11	-	314 + 71.24	SN 052-0081
170.11	Rt. Sta.	312 + 24.79	-	313 + 94.71	SN 052-0081
141.0	Rt. Sta.	322 + 87.44	-	324 + 28.44	SN 052-2031
378.86	Lt. Sta.	324 + 32.48	-	328 + 11.30	SN 052-2031
235.32	Rt. Sta.	325 + 03.86	-	327 + 39.18	SN 052-2031
234	Rt. Sta.	418 + 01	-	420 + 35	SN 052-0080
146	Lt. Sta.	418 + 89	-	420 + 35	SN 052-0080
221	Rt. Sta.	420 + 75	-	422 + 96	SN 052-0080
296	Lt. Sta.	420 + 75	-	423 + 71	SN 052-0080
2,514					

63500105 DELINEATORS

EACH	LOCATION		COMMENTS
1	Lt. Sta.	307 + 70.67	Ex Triple 9'x7" Box Culvert
1	Rt. Sta.	307 + 70.67	Ex Triple 9'x7" Box Culvert
1	Rt. Sta.	308 + 84.72	TBT, Type 1 (Special)
1	Lt. Sta.	309 + 59.72	TBT, Type 1 (Special)
1	Lt. Sta.	312 + 68.54	End Sections 12"
1	Rt. Sta.	312 + 68.54	End Sections 12"
1	Rt. Sta.	313 + 31.52	TBT, Type 1 (Special)
1	Lt. Sta.	314 + 06.52	TBT, Type 1 (Special)
1	Rt. Sta.	323 + 79.25	TBT, Type 1 (Special)
1	Rt. Sta.	323 + 86.36	TBT, Type 1 (Special)
1	Rt. Sta.	327 + 04.25	TBT, Type 1 (Special)
1	Lt. Sta.	327 + 36.36	TBT, Type 1 (Special)
1	Rt. Sta.	418 + 20.47	TBT, Type 1 (Special)
1	Lt. Sta.	418 + 95.47	TBT, Type 1 (Special)
1	Lt. Sta.	421 + 50.00	55.7' o/s; End Sections 12"
1	Rt. Sta.	421 + 50.00	56.5' o/s; End Sections 12"
1	Rt. Sta.	422 + 12.77	TBT Type 1 (Special)
1	Lt. Sta.	423 + 12.77	TBT, Type 1 (Special)
1	Rt. Sta.	423 + 18.24	53.9' o/s; End Sections 24"
1	Rt. Sta.	423 + 77.37	53.9' o/s; End Sections 24"
20			

66600105 FURNISHING AND ERECTING RIGHT OF WAY MARKERS

EACH	LOCATION		COMMENTS
1	Lt. Sta.	322 + 00.00	40.00' o/s
1	Rt. Sta.	322 + 00.00	40.00' o/s
1	Lt. Sta.	323 + 00.00	50.00' o/s
1	Rt. Sta.	323 + 00.00	50.00' o/s
1	Rt. Sta.	324 + 75.00	50.00' o/s
1	Rt. Sta.	327 + 00.00	60.00' o/s
1	Lt. Sta.	329 + 00.00	50.00' o/s
1	Rt. Sta.	329 + 00.00	60.00' o/s
1	Lt. Sta.	330 + 00.00	40.00' o/s
1	Rt. Sta.	330 + 00.00	40.00' o/s
1	Lt. Sta.	416 + 00.00	40.00' o/s
1	Rt. Sta.	416 + 00.00	40.00' o/s
1	Lt. Sta.	418 + 00.00	65.00' o/s
1	Rt. Sta.	418 + 00.00	45.00' o/s
1	Lt. Sta.	419 + 00.00	65.00' o/s
1	Rt. Sta.	419 + 00.00	50.00' o/s
1	Lt. Sta.	420 + 20.23	80.00' o/s
1	Rt. Sta.	420 + 20.23	80.00' o/s
18			

66700305 PERMANENT SURVEY MARKERS, TYPE II

EACH	LOCATION
2	1 North/1 South of SN 052-0080
1	1 North of SN 052-2031
1	1 South of SN 052-0081
4	

70106500 TEMPORARY BRIDGE TRAFFIC SIGNALS

EACH	LOCATION	COMMENTS
1	SN 052-0081	See Staging Plans for Locations
1	SN 052-2031	See Staging Plans for Locations
1	SN 052-0080	See Staging Plans for Locations
3	TOTAL	

• 102BR-5, 102BR-6 & 102BR-7

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	21
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

70106700 TEMPORARY RUMBLE STRIPS

EACH	LOCATION				COMMENTS
12	Rt. Sta.	305 + 48	-	306 + 55	SN 052-0081
12	TOTAL				

70300100 SHORT TERM PAVEMENT MARKING

FOOT	LOCATION				COMMENTS
137	Sta.	308 + 45	-	315 + 30.44	Yellow Skip Dash - 2 total applications
150	Sta.	322 + 00	-	329 + 50	Yellow Skip Dash - 2 total applications
195	Sta.	415 + 25	-	425 + 00	Yellow Skip Dash - 2 total applications
482	TOTAL				

70300220 TEMPORARY PAVEMENT MARKING - LINE 4"

FOOT	LOCATION				COMMENTS
860.57	Rt. Sta.	307 + 10.36	-	315 + 70.59	Edge Line - Stage 2 of SN 052-0081
790.74	Lt. Sta.	307 + 70.37	-	315 + 61.11	Edge Line - Stage 2 of SN 052-0081
793.07	Rt. Sta.	307 + 79.64	-	315 + 71.27	Edge Line - Stage 1 of SN 052-0081
447.67	Lt. Sta.	309 + 23.64	-	313 + 71.31	Edge Line - Stage 1 of SN 052-0081
761.17	Lt. Sta.	321 + 77.82	-	329 + 37.22	Edge Line - Stage 2 of SN 052-2031
775.71	Rt. Sta.	321 + 78.14	-	329 + 52.30	Edge Line - Stage 1 of SN 052-2031
761.98	Rt. Sta.	321 + 78.14	-	329 + 39.54	Edge Line - Stage 2 of SN 052-2031
378.14	Lt. Sta.	323 + 69.86	-	327 + 48.00	Edge Line - Stage 1 of SN 052-2031
1,234.72	Rt. Sta.	413 + 78.00	-	426 + 12.72	Edge Line - Stage 1 of SN 052-0080
1,198.35	Lt. Sta.	414 + 32.34	-	426 + 30.69	Edge Line - Stage 2 of SN 052-0080
991.72	Lt. Sta.	415 + 22.00	-	425 + 13.72	Edge Line - Stage 1 of SN 052-0080
955.99	Rt. Sta.	415 + 32.34	-	424 + 87.92	Edge Line - Stage 2 of SN 052-0080
9,950	TOTAL				

70300280 TEMPORARY PAVEMENT MARKING - LINE 24"

FOOT	LOCATION				COMMENTS
13.2	Rt. Sta.	307 + 10.36			Stop Bar - SN 052-0081
12.3	Lt. Sta.	315 + 70.95			Stop Bar - SN 052-0081
13.2	Rt. Sta.	321 + 78.16			Stop Bar - SN 052-2031
12.7	Lt. Sta.	329 + 37.21			Stop Bar - SN 052-2031
13.2	Rt. Sta.	413 + 68.31			Stop Bar - SN 052-0080
12.7	Lt. Sta.	426 + 72.72			Stop Bar - SN 052-0080
77	TOTAL				

70301000 WORK ZONE PAVEMENT MARKING REMOVAL

SQ FT	LOCATION				COMMENTS
26.4	Rt. Sta.	307 + 09.19			Stop Bar - SN 052-0081
286.9	Rt. Sta.	307 + 10.36	-	315 + 70.59	Edge Line - Stage 2 of SN 052-0081
263.6	Lt. Sta.	307 + 70.37	-	315 + 61.11	Edge Line - Stage 2 of SN 052-0081
264.4	Rt. Sta.	307 + 79.64	-	315 + 71.27	Edge Line - Stage 1 of SN 052-0081
22.8	Sta.	308 + 45	-	315 + 30.44	Yellow Skip Dash - Removal from final surface
149.2	Lt. Sta.	309 + 23.64	-	313 + 71.31	Edge Line - Stage 1 of SN 052-0081
24.6	Lt. Sta.	315 + 72.11			Stop Bar - SN 052-0081
26.4	Rt. Sta.	321 + 77.16			Stop Bar - SN 052-2031
253.7	Lt. Sta.	321 + 77.82	-	329 + 37.22	Edge Line - Stage 2 of SN 052-2031
258.6	Rt. Sta.	321 + 78.14	-	329 + 52.30	Edge Line - Stage 1 of SN 052-2031
254.0	Rt. Sta.	321 + 78.14	-	329 + 39.54	Edge Line - Stage 2 of SN 052-2031
25.0	Sta.	322 + 00	-	329 + 50	Yellow Skip Dash - Removal from final surface
126.0	Lt. Sta.	323 + 69.86	-	327 + 48.00	Edge Line - Stage 1 of SN 052-2031
25.4	Lt. Sta.	329 + 38.38			Stop Bar - SN 052-2031
26.4	Rt. Sta.	413 + 67.13			Stop Bar - SN 052-0080
411.6	Rt. Sta.	413 + 78.00	-	426 + 12.72	Edge Line - Stage 1 of SN 052-0080
399.5	Lt. Sta.	414 + 32.34	-	426 + 30.69	Edge Line - Stage 2 of SN 052-0080
330.6	Lt. Sta.	415 + 22.00	-	425 + 13.72	Edge Line - Stage 1 of SN 052-0080
32.5	Sta.	415 + 25	-	425 + 00	Yellow Skip Dash - Removal from final surface
318.7	Rt. Sta.	415 + 32.34	-	424 + 87.92	Edge Line - Stage 2 of SN 052-0080
25.4	Lt. Sta.	426 + 72.72			Stop Bar - SN 052-0080
3,552	TOTAL				

70400100 TEMPORARY CONCRETE BARRIER

FOOT	LOCATION				COMMENTS
425	Sta.	309 + 32.2	-	313 + 62.7	Stage 1 of SN 052-0081
100	Sta.	308 + 77.8	-	309 + 79.2	Stage 2 of SN 052-0081
350	Sta.	323 + 82.0	-	327 + 36.6	Stage 1 of SN 052-2031
50	Sta.	323 + 45.9	-	323 + 96.6	Stage 2 of SN 052-2031
950	Sta.	415 + 36.5	-	424 + 97.0	Stage 1 of SN 052-0080
1,875	TOTAL				

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

FOOT	LOCATION				COMMENTS
425	Sta.	309 + 79.2	-	314 + 09.8	Stage 2 of SN 052-0081
375	Sta.	323 + 96.6	-	327 + 75.7	Stage 2 of SN 052-2031
925	Sta.	415 + 41.5	-	424 + 77.7	Stage 2 of SN 052-0080
1,725	TOTAL				

78001110 PAINT PAVEMENT MARKING - LINE 4"

FOOT	LOCATION				COMMENTS
3,456	Sta.	307 + 09	-	315 + 73	White edge Line - 2 Coats
432	Sta.	307 + 09	-	315 + 73	Yellow Skip Dash - 2 Coats
3,104	Sta.	321 + 77	-	329 + 53	White edge Line - 2 Coats
388	Sta.	321 + 77	-	329 + 53	Yellow Skip Dash - 2 Coats
5,176	Sta.	413 + 67	-	426 + 61	White edge Line - 2 Coats
647	Sta.	413 + 67	-	426 + 61	Yellow Skip Dash - 2 Coats
13,203	TOTAL				

78100100 RAISED REFLECTIVE PAVEMENT MARKERS

EACH	LOCATION				COMMENTS
3	Sta.	308 + 45.00	-	310 + 29.37	SN 052-0081
4	Sta.	312 + 61.87	-	315 + 30.44	SN 052-0081
10	Sta.	322 + 00.00	-	329 + 50.00	SN 052-2031
6	Sta.	415 + 50.00	-	419 + 65.63	SN 052-0080
6	Sta.	421 + 43.63	-	425 + 50.00	SN 052-0080
29					

78200410 GUARDRAIL MARKERS, TYPE A

EACH	LOCATION				COMMENTS
3	Rt. Sta.	309 + 34.72	-	310 + 52.87	SN 052-0081
2	Lt. Sta.	310 + 09.72	-	310 + 52.87	SN 052-0081
2	Rt. Sta.	312 + 38.37	-	312 + 81.52	SN 052-0081
3	Lt. Sta.	312 + 38.37	-	313 + 56.52	SN 052-0081
4	Rt. Sta.	324 + 29.25	-	326 + 54.25	SN 052-2031
4	Lt. Sta.	324 + 36.36	-	326 + 86.36	SN 052-2031
3	Rt. Sta.	418 + 70.47	-	419 + 88.62	SN 052-0080
2	Lt. Sta.	419 + 45.47	-	419 + 88.62	SN 052-0080
2	Rt. Sta.	421 + 19.62	-	421 + 62.77	SN 052-0080
3	Lt. Sta.	421 + 19.62	-	422 + 62.77	SN 052-0080
28					

78200520 BARRIER WALL MARKERS, TYPE B

EACH	LOCATION				COMMENTS
6	Sta.	310 + 50.37	-	312 + 40.87	SN 052-0081 - 3 on Each Parapet Wall
6	Sta.	419 + 86.12	-	421 + 22.12	SN 052-0080 - 3 on Each Parapet Wall
12					

78201000 TERMINAL MARKER - DIRECT APPLIED

EACH	LOCATION				COMMENTS
1	Rt. Sta.	308 + 84.72			SN 052-0081
1	Lt. Sta.	309 + 59.72			SN 052-0081
1	Rt. Sta.	313 + 31.52			SN 052-0081
1	Lt. Sta.	314 + 06.52			SN 052-0081
1	Rt. Sta.	323 + 79.25			SN 052-2031
1	Lt. Sta.	323 + 86.36			SN 052-2031
1	Rt. Sta.	327 + 04.25			SN 052-2031
1	Lt. Sta.	327 + 36.36			SN 052-2031
1	Rt. Sta.	418 + 20.47			SN 052-0080
1	Lt. Sta.	418 + 95.47			SN 052-0080
1	Rt. Sta.	422 + 12.77			SN 052-0080
1	Lt. Sta.	423 + 12.77			SN 052-0080
12					

78300100 PAVEMENT MARKING REMOVAL

SQ FT	LOCATION				COMMENTS
576.0	Sta.	307 + 09	-	315 + 73	Existing White edge Line
72.0	Sta.	307 + 09	-	315 + 73	Existing Yellow Skip Dash
517.3	Sta.	321 + 77	-	329 + 53	Existing White edge Line
64.7	Sta.	321 + 77	-	329 + 53	Existing Yellow Skip Dash
862.7	Sta.	413 + 67	-	426 + 61	Existing White edge Line
107.8	Sta.	413 + 67	-	426 + 61	Existing Yellow Skip Dash
2,201	TOTAL				

X6060505 CONCRETE CURB (SPECIAL)

FOOT	LOCATION				COMMENTS
13.5	Rt. Sta.	312 + 55.87	-	312 + 69.37	SN 052-0081
13.5	Lt. Sta.	312 + 55.87	-	312 + 69.37	SN 052-0081
13.5	Rt. Sta.	421 + 37.63	-	421 + 51.12	SN 052-0080
13.5	Lt. Sta.	421 + 37.63	-	421 + 51.12	SN 052-0080
54	TOTAL				

Z0025500 FURNISHING AND INSTALLING PROPERTY MARKERS

EACH	LOCATION
2	Contingency
2	

Z0028415 GEOTECHNICAL REINFORCEMENT

SQ YD	LOCATION				COMMENTS
10.3	Rt. Sta.	312 + 61.87	-	312 + 76.87	Underneath PCC Shoulders 8"
11.7	Lt. Sta.	312 + 61.87	-	312 + 76.87	Underneath PCC Shoulders 8"
26.3	Sta.	324 + 97	-	325 + 06.20	Underneath Patch Outside Trench Backfill
22.1	Sta.	326 + 15.13	-	326 + 23	Underneath Patch Outside Trench Backfill
10.5	Rt. Sta.	421 + 43.63	-	421 + 58.63	SN 052-0080
11.2	Lt. Sta.	421 + 43.63	-	421 + 58.63	SN 052-0080
4,310	Various HMA SHOULDER Locations				See "HOT-MIX ASPHALT SCHEDULE"
4,402	TOTAL				

Z0028700 GRANULAR SUBGRADE REPLACEMENT

CU YD	LOCATION				COMMENTS
8.8	Sta.	324 + 97	-	325 + 06.20	Underneath Patch Outside Trench Backfill
7.4	Sta.	326 + 15.13	-	326 + 23	Underneath Patch Outside Trench Backfill
16	TOTAL				

Z0030250 IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3

EACH	LOCATION				COMMENTS
1	Rt. Sta.	309 + 15.7	-	309 + 32.2	Stage 1 of SN 052-0081
1	Rt. Sta.	313 + 62.9	-	313 + 79.4	Stage 1 of SN 052-0081
1	Rt. Sta.	323 + 65.5	-	323 + 82.0	Stage 1 of SN 052-2031
1	Rt. Sta.	327 + 36.8	-	327 + 53.3	Stage 1 of SN 052-2031
1	Rt. Sta.	415 + 19.9	-	415 + 36.4	Stage 1 of SN 052-0080
1	Rt. Sta.	424 + 96.9	-	425 + 13.4	Stage 1 of SN 052-0080
6					

Z0030350 IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3

EACH	LOCATION				COMMENTS
1	Lt. Sta.	308 + 61.1	-	308 + 77.6	Stage 2 of SN 052-0081
1	Lt. Sta.	314 + 09.9	-	314 + 26.4	Stage 2 of SN 052-0081
1	Lt. Sta.	323 + 29.1	-	323 + 45.6	Stage 2 of SN 052-2031
1	Lt. Sta.	327 + 75.8	-	327 + 92.3	Stage 2 of SN 052-2031
1	Lt. Sta.	415 + 24.8	-	415 + 41.3	Stage 2 of SN 052-0080
1	Lt. Sta.	424 + 77.8	-	424 + 94.3	Stage 2 of SN 052-0080
6					

* 102BR-5, 102BR-6 & 102BR-7

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	22
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

EARTHWORK SCHEDULE

EARTH WORK SCHEDULE						
	20200100					20400800
LOCATION		EARTH EXCAVATION	EARTH EXC ADJ SHRINK 25% EARTH	EMBANKMENT (FILL)	EARTH WORK BALANCE WASTE (+) SHORTAGE (-)	FURNISHED EXCAVATION
		CU YD	CU YD	CU YD	CU YD	CU YD
MAINLINE (IL 26)						
307 + 75	- 313 + 00	245.0	183.8	1,392.6	-1,208.9	1,208.9
313 + 00	- 315 + 50	117.5	88.1	354.0	-265.9	265.9
322 + 00	- 327 + 00	1,114.6	836.0	610.6	225.4	
327 + 00	- 329 + 50	228.8	171.6	235.0	-63.4	63.4
415 + 25	- 418 + 00	152.8	114.6	33.1	81.5	
418 + 00	- 424 + 00	430.4	322.8	930.6	-607.8	607.8
424 + 00	- 425 + 50	157.8	118.4	116.0	2.4	
TOTAL		2,446.9	1,835.2	3,671.9	-1,836.7	1,836.7

• 102BR-5, 102BR-6 & 102BR-7

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EARTHWORK SCHEDULE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	23
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			

HOT–MIX ASPHALT SCHEDULE

LOCATION	REMARKS	BITUMINOUS											
		PAVEMENT			HMA SHOULDER								
STATION TO STATION		LENGTH	WIDTH	AREA	HMA AVE WIDTH/DEPTH				HMA AREA	AGG BS CRS AVE WIDTH		AGG AREA
		FT	FT	SQ YD	FT - LT SIDE	INCH - LT SIDE	FT - RT SIDE	INCH - RT SIDE	SQ YD	FT - LT SIDE	FT - RT SIDE	SQ YD
308 + 45.00 - 308 + 57.50		12.50	26	36.1	6.81	8	9.62	8	22.8	7.81	10.62	25.6
308 + 57.50 - 309 + 25.00	Taper	67.50	26	195.0	7.00	8	14.97	8	164.8	8.00	15.97	179.8
309 + 25.00 - 310 + 29.37		104.37	26	301.5	13.62	9.58	10.47	9.10	279.4	14.62	11.47	302.6
310 + 29.37 - 312 + 61.87	BRIDGE OMISSION	232.50										
312 + 61.87 - 313 + 95.00		133.13	26	384.6	12.11	9.52	11.78	9.31	313.6	13.11	12.78	339.9
313 + 95.00 - 314 + 62.50	Taper	67.50	26	195.0	13.56	8.09	3.33	8	126.6	14.56	4.33	141.6
314 + 62.50 - 315 + 30.44		67.94	26	196.3	7.90	8	1.48	8	70.8	8.90	2.48	85.9
322 + 00.00 - 322 + 82.50		82.50	26	238.3	2.30	8	1.99	8	39.3	3.30	2.99	57.7
322 + 82.50 - 323 + 50.00	Taper	67.50	26	195.0	3.99	9.15	5.21	9.01	69.1	4.99	6.21	84.1
323 + 50.00 - 328 + 20.00		470.00	26	1357.8	10.73	10.15	11.74	10.17	1173.6	11.73	12.74	1278.1
328 + 20.00 - 328 + 87.50	Taper	67.50	26	195.0	2.31	8.31	3.61	8.42	44.4	3.31	4.61	59.4
328 + 87.50 - 329 + 50.00		62.50	26	180.6	2.29	8	2.55	8	33.6	3.29	3.55	47.5
415 + 25.00 - 416 + 07.50		82.50	26	238.3	7.03	8	7.00	8	128.6	8.03	8.00	146.9
416 + 07.50 - 416 + 75.00	Taper	67.50	26	195.0	7.00	8	7.00	8	105.0	8.00	8.00	120.0
416 + 75.00 - 419 + 65.63		290.63	26	839.6	9.27	8	10.08	8	624.9	10.27	11.08	689.4
419 + 65.63 - 421 + 43.63	BRIDGE OMISSION	178.00										
421 + 43.63 - 423 + 50.00		206.37	26	596.2	10.84	8	9.96	8	442.2	11.84	10.96	484.7
423 + 50.00 - 424 + 17.50	Taper	67.50	26	195.0	7.00	8	7.01	8	105.1	8.00	8.01	120.1
424 + 17.50 - 425 + 00.00		82.50	26	238.3	7.00	8	7.00	8	128.4	8.00	8.00	146.7

LOCATION	REMARKS	35100100		40600525			40600625	40600990	40603310	40603310		44000155		48101200	48203023	Z0028415
STATION TO STATION		AGGREGATE BASE COURSE, TYPE A	BIT MATL'S (PRIME COAT) 2 APPLICATION	AGGREGATE (PRIME COAT) 1APPLICATION	LEVELING BINDER (HM) N50	VOLUME OF VAR. DEPTH LEVEL BINDER	LEVELING BINDER (MM) N50	TEMPORARY RAMP	HMA SURF CSE MIX "C" N50 (HMA SHOULDERS)	HMA SURF CSE MIX "C" N50 (PAVEMENT)	ESTIMATED DEPTH OF MILLING	HOT-MIX ASPHALT SURFACE REMOVAL, 1	AREA FOR AGGREGATE SHOULDERS, TYPE B	AGGREGATE SHOULDERS, TYPE B	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	GEOTECHNICAL REINFORCEMENT
		TON	TON	TON	TON	CU YD	TON	SQ YD	TON	TON	INCH	SQ YD	SQ YD	TON	SQ YD	SQ YD
308 + 45.00 - 308 + 57.50		8.75	0.02	0.05	0.04	---	---	14.44	1.92	3.03	1.5	36.1	---	---	22.8	25.6
308 + 57.50 - 309 + 25.00	Taper	61.44	0.11	0.29	0.19	1.053	2.12	---	13.85	16.38	0 - 1.5	130.0	---	---	164.8	179.8
309 + 25.00 - 310 + 29.37		103.39	0.17	0.45	0.30	15.436	31.12	39.35	44.93	25.33	0	0	---	---	279.4	302.6
310 + 29.37 - 312 + 61.87	BRIDGE OMISSION															
312 + 61.87 - 313 + 95.00		116.13	0.22	0.58	0.38	21.061	42.46	41.53	57.73	32.31	0	0	---	---	313.6	339.9
313 + 95.00 - 314 + 62.50	Taper	48.39	0.11	0.29	0.19	1.053	2.12	---	11.15	16.38	0 - 1.5	130.0	24.2	11.01	126.6	141.6
314 + 62.50 - 315 + 30.44		29.35	0.11	0.29	0.19	---	---	14.44	5.95	16.49	1.5	196.3	33.6	15.28	70.8	85.9
322 + 00.00 - 322 + 82.50		19.70	0.14	0.36	0.23	---	---	14.44	3.30	20.02	1.5	238.3	48.0	21.88	39.3	57.7
322 + 82.50 - 323 + 50.00	Taper	28.72	0.11	0.29	0.19	1.053	2.12	---	9.94	16.38	0 - 1.5	130.0	39.8	18.11	69.1	84.1
323 + 50.00 - 328 + 20.00		436.68	0.78	2.04	1.34	37.263	75.12	---	240.58	114.05	0	0	15.2	6.93	1173.6	1278.1
328 + 20.00 - 328 + 87.50	Taper	20.29	0.11	0.29	0.19	1.053	2.12	---	4.66	16.38	0 - 1.5	130.0	69.9	31.83	44.4	59.4
328 + 87.50 - 329 + 50.00		16.24	0.10	0.27	0.18	---	---	14.44	2.82	15.17	1.5	180.6	50.1	22.83	33.6	47.5
415 + 25.00 - 416 + 07.50		50.19	0.14	0.36	0.23	---	---	14.44	10.80	20.02	1.5	238.3	---	---	128.6	146.9
416 + 07.50 - 416 + 75.00	Taper	41.01	0.11	0.29	0.19	1.053	2.12	---	8.82	16.38	0 - 1.5	130.0	---	---	105.0	120.0
416 + 75.00 - 419 + 65.63		235.56	0.48	1.26	0.83	213.337	430.09	14.44	52.49	70.53	0	0	---	---	624.9	689.4
419 + 65.63 - 421 + 43.63	BRIDGE OMISSION															
421 + 43.63 - 423 + 50.00		165.60	0.34	0.89	0.59	221.338	446.22	14.44	37.14	50.08	0	0	---	---	442.2	484.7
423 + 50.00 - 424 + 17.50	Taper	41.03	0.11	0.29	0.19	1.053	2.12	---	8.83	16.38	0 - 1.5	130.0	---	---	105.1	120.1
424 + 17.50 - 425 + 00.00		50.12	0.14	0.36	0.23	---	---	14.44	10.78	20.02	1.5	238.3	---	---	128.4	146.7
	TOTALS	1,472.58	3.3	8.7	6		1,038	196	526	485		1,908		128	3,872	4,310

• 102BR-5, 102BR-6 & 102BR-7

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		DRAWN -	REVISED -		
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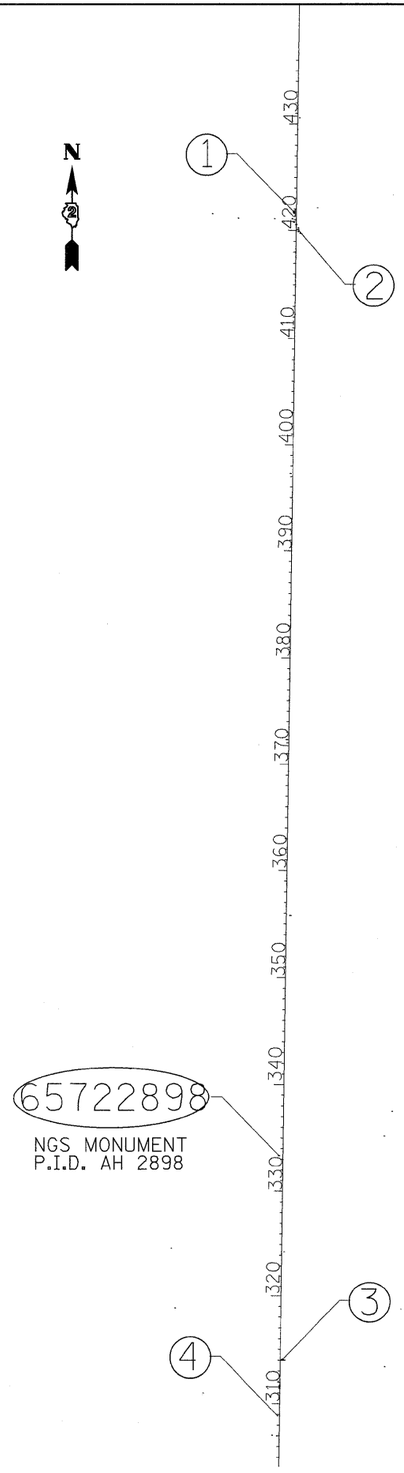
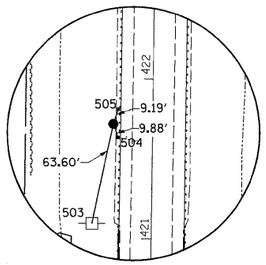
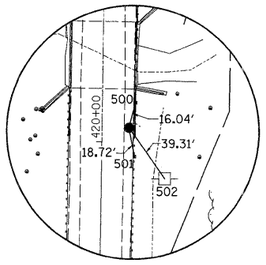
	PLOT DATE = Tue Aug 23 06:28:45 2011	DATE -	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	•	LEE	216	24
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		





HORIZONTAL CONTROL
POINT NO. 1



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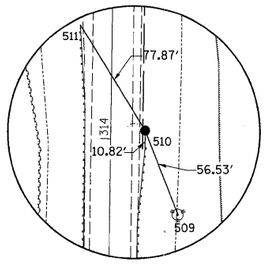
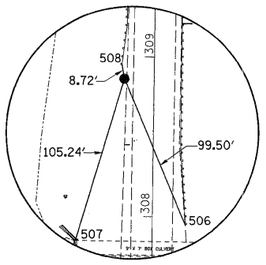
POINT NO. 2



HORIZONTAL CONTROL
POINT NO. 3



HORIZONTAL CONTROL
POINT NO. 4

Chain IL26SEG contains:
1283 1290 1302

Beginning chain IL26SEG description

Point 1283 N 1,822,480.4088 E 2,489,809.3437 Sta 304+12.2156

Course from 1283 to 1290 0° 46' 01.3553" Dist 6,523.2207'

Point 1290 N 1,829,003.0450 E 2,489,896.6702 Sta 369+35.4363

Course from 1290 to 1302 0° 46' 53.8366" Dist 11,583.9134'

Point 1302 N 1,840,585.8805 E 2,490,054.6915 Sta 485+19.3497

Ending chain IL26SEG description

HORIZONTAL CONTROL POINTS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	1834239.7680	2489943.3480	699.0020	IL26	421+72.3088	24.763' LT	GPS CONTROL POINT, PIN
2	1834076.1110	2489982.8490	700.0380	IL26	420+09.2059	16.9668' RT	GPS CONTROL POINT, PK NAIL
3	1823473.3411	2489844.2047	695.3726	IL26	314+05.5256	21.5655' RT	GPS CONTROL POINT, PIN
4	1822954.6871	2489797.0171	700.6626	IL26	308+86.2864	18.6746' LT	GPS CONTROL POINT, PIN
65722898	1825403.8280	2489809.6880	692.4300	IL26	333+35.3774	38.7916' LT	GPS CONTROL POINT, PERM. SURVEY MARKER

SURVEY WORK POINTS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
100	1822775.1316	2489747.2439	697.3003	IL26	307+06.0807	66.0397' LT	TOPO SURVEY POINT, PK NAIL
101	1824501.1834	2489859.4597	693.2889	IL26	324+33.4800	23.0594' RT	TOPO SURVEY POINT, NAIL
102	1834182.5681	2489423.6519	695.0256	IL26	421+08.0248	543.6304' LT	TOPO SURVEY POINT, NAIL
103	1824534.5869	2488798.9981	687.4166	IL26	324+52.6841	1037.7544' LT	TOPO SURVEY POINT, NAIL
104	1823831.8284	2488329.4111	688.5196	IL26	317+43.7022	1497.8914' LT	TOPO SURVEY POINT, NAIL
105	1826218.2371	2488416.3445	691.4109	IL26	341+31.0608	1442.9127' LT	TOPO SURVEY POINT, NAIL
108	1823407.2318	2490803.1096	691.2248	IL26	313+52.2591	981.2695' RT	TOPO SURVEY POINT, NAIL
109	1823955.0585	2488836.5311	689.1936	IL26	318+73.7101	992.4666' LT	TOPO SURVEY POINT, NAIL
110	1823167.8305	2489098.3703	688.9330	IL26	310+90.0579	720.1122' LT	TOPO SURVEY POINT, NAIL
111	1822643.7842	2488117.5890	688.5064	IL26	305+52.9288	1693.7902' LT	TOPO SURVEY POINT, NAIL
112	1822767.0726	2489789.7928	702.4308	IL26	306+98.5920	23.3867' LT	TOPO SURVEY POINT, PK NAIL
113	1824512.3253	2488669.7523	688.8310	IL26	324+28.6943	1166.6906' LT	TOPO SURVEY POINT, NAIL
114	1824139.0468	2488754.1638	688.4858	IL26	320+56.5792	1077.2895' LT	TOPO SURVEY POINT, NAIL
120	1834176.4794	2489763.0542	695.5261	IL26	421+06.5666	204.1767' LT	TOPO SURVEY POINT, NAIL
121	1834224.6006	2489180.9900	694.0694	IL26	421+46.7432	786.8432' LT	TOPO SURVEY POINT, NAIL
122	1834279.7686	2490167.9322	696.6895	IL26	422+15.3694	199.2546' RT	TOPO SURVEY POINT, NAIL
123	1824564.2498	2489820.4124	693.2726	IL26	324+96.0180	16.8287' LT	NAIL, NAIL
124	1824321.0526	2489315.6039	689.9004	IL26	322+46.0847	518.3363' LT	NAIL, NAIL
125	1824113.9769	2489021.1076	685.8196	IL26	320+35.0852	810.034' LT	NAIL, NAIL
126	1824144.1511	2488877.6304	683.9357	IL26	320+63.3359	953.9023' LT	NAIL, NAIL
129	1823234.1005	2489834.3788	698.2876	IL26	311+66.1749	14.9432' RT	NAIL
130	1834316.8664	2490082.6343	692.9151	IL26	422+51.3001	113.4586' RT	NAIL, NAIL
131	1834316.7752	2490082.8364	692.8649	IL26	422+51.2117	113.6619' RT	NAIL, NAIL
133	1834617.2901	2490295.2254	696.9990	IL26	425+54.5959	321.9317' RT	NAIL, NAIL
134	1834746.2604	2490473.8482	694.5060	IL26	426+85.9909	498.7786' RT	NAIL, NAIL
135	1823296.3877	2489966.3756	690.7431	IL26	312+30.2236	146.0943' RT	TOPO SURVEY POINT, NAIL

BENCH MARKS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
401	1834143.5560	2489944.4420	699.4200	IL26	420+76.1207	22.3566' LT	HEADWALL, CHISELED SQUARE
403	1823277.1750	2489803.0020	700.3497	IL26	312+08.8255	17.0074' LT	HANDRAIL, PLUG

REFERENCE TIES

POINT	NORTH	EAST	CHAIN	STATION	OFFSET	DESCRIPTION
500	1834091.6170	2489986.9410	IL26	420+24.7663	20.8469' RT	GUARDPOST, SHINER
501	1834057.7060	2489986.3080	IL26	419+90.8498	20.6766' RT	GUARDPOST, SHINER
502	1834043.8580	2490005.3310	IL26	419+77.2626	39.8867' RT	POWER POLE, SHINER
503	1834176.9550	2489929.8650	IL26	421+09.3177	37.3879' LT	POWER POLE, SHINER
504	1834230.3290	2489946.2730	IL26	421+62.9106	21.7095' LT	GUARDPOST, SHINER
505	1834248.3410	2489946.6690	IL26	421+80.9263	21.5593' LT	GUARDPOST, SHINER
506	1822143.2116	2470247.3355	IL26	307+94.9836	20.8801' RT	END OF GUARDRAIL
507	1822134.3676	2470178.3395	IL26	307+85.2168	47.9913' LT	HEADWALL, TOP
508	1822243.6136	2470207.4465	IL26	308+94.8426	20.3494' LT	END OF GUARDRAIL
509	1822701.0840	2470276.8993	IL26	313+53.2017	42.9729' LT	TREE
510	1822742.8746	2470256.1375	IL26	313+94.7107	21.6536' LT	END OF GUARDRAIL
511	1822819.9556	2470215.3025	IL26	314+71.2381	20.2096' LT	END OF GUARDRAIL

• 102BR-5, 102BR-6 & 102BR-7

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HORIZONTAL & VERTICAL CONTROL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	•	LEE	216	25
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

LAWRENCE AND PRISCELLA GALLAGER

18" CMP

CONSTRUCTION LIMITS

EXISTING R.O.W

EXISTING STRUCTURE
(S.N. 052-0026)
STA. 311+45.62

TRAFFIC BARRIER
TERMINAL, TYPE 6

30' APPROACH SLAB

H.M.A. SHOULDER

TRAFFIC BARRIER
TERMINAL, TYPE 1 (SPECIAL) FLARED

BRIDGE APPROACH
PAVEMENT CONNECTOR 6'

HMA SURFACE REMOVAL, 1 1/2"

SECTION BEGINS
STA. 308+45.00

GUARDRAIL REMOVAL

7'

18'

3.75'

6' X 7' BOX CULVERT

9' X 7' BOX CULVERT

6' X 7' BOX CULVERT

67.5' TAPER

13'

13'

307

IL 26

308

309

309+25.00

310+00

311

312

90° (TYP.)

100+00

MATCHLINE STA. 313+00

IMPROVEMENT BEGINS
STA. 307+75.00

GUARDRAIL REMOVAL

1 1/2" H.M.A. SURFACE COURSE,
MIX "C", N50

TRAFFIC BARRIER
TERMINAL, TYPE 1 (SPECIAL) FLARED

STEEL PLATE
BEAM GUARDRAIL, TY A,
6' POSTS

H.M.A. SHOULDER

TRAFFIC BARRIER
TERMINAL, TYPE 6

STA. 310+65.37
BACK OF SOUTH ABUTMENT

CONSTRUCTION LIMITS

STA. 311+45.62 - SPECIAL BRIDGE DESIGN
3-SPAN CONTINUOUS STEEL COMPOSITE
WIDE FLANGE BEAM BRIDGE, 3-SPANS @
45'-3", 70'-0", 45'-3"; 160'-6" BK.-BK. ABUTS.;
43'-2" O.-O. DECK; 40'-0" ROADWAY; SKEW = 0°
PROPOSED S.N. 052-0081
STONE RIP-RAP CLASS A5

LEGEND

TREE REMOVAL

LAWRENCE AND PRISCELLA GALLAGER

LAWRENCE AND PRISCELLA GALLAGER

FLOW

GREEN RIVER

24' PIPE DRAINS 12"
1 EA. END SECTIONS 12"
1 EA. CONCRETE THRUST BLOCKS

TRAFFIC BARRIER
TERMINAL, TYPE 6

30' APPROACH SLAB

STA. 312+25.87
BACK OF NORTH ABUTMENT

CONSTRUCTION LIMITS

TRAFFIC BARRIER
TERMINAL, TYPE 6

BRIDGE APPROACH
PAVEMENT CONNECTOR 6'

TYPE E INLET BOX, STANDARD 610001
(SEE CROSS-SECTIONS FOR ELEVATIONS)

23.5' PIPE DRAINS 12"
1 EA. END SECTIONS 12"
1 EA. CONCRETE THRUST BLOCKS

LAWRENCE AND PRISCELLA GALLAGER

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

PROFILE
SURVEYED
PLOTTED
DRAWN
ALIGNMENT CHECKED
BM & NOTED
STRUCTURE NO'S/ATN'S CHKD
NOTE BOOK
NO.
BY
DATE

710
705
700
695
690
685
680
675

701.71

-0.78%

VPI STA. 310+00.00
ELEVATION 700.54

-1.02%

-1.02%

VPI STA. 313+00.00

SPECIAL DITCH RT

1.3%

1.3%

STA. 307+75 to 313+00
EARTH EX. = 245.0 CU.YDS.
EMB. = 1392.6 CU.YDS.
HAUL IN = 1208.9 CU.YDS.

307+00	307+50	308+00	308+50	309+00	309+50	310+00	310+50	311+00	311+50	312+00	312+50	313+00
703.30	702.69	702.19	701.71 / 701.71	701.20 / 701.32	700.71 / 700.93	700.23 / 700.54	699.67 / 700.03	699.04 / 699.52	698.52 / 699.01	698.05 / 698.50	697.62 / 697.99	697.17 / 697.48

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26
052-0081 PLAN & PROFILE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-5, 102BR-6 & 102BR-7	LEE	216	26
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

LAWRENCE AND PRISCELLA GALLAGER

DIANA HELLMAN

314+76.00
85.00' LT

315+24.09
85.00' LT

TEMP EASEMENT

314+76.00
70.00' LT

315+24.37
70.00' LT

TRAFFIC BARRIER
TERMINAL, TYPE 1 (SPECIAL) FLARED

EXISTING R.O.W

STEEL PLATE
BEAM GUARDRAIL, TY A,
6' POSTS

CONSTRUCTION LIMITS

FE +99

1 1/2" H.M.A. SURFACE COURSE,
MIX "C", N50

EXISTING R.O.W

GUARDRAIL
REMOVAL

SECTION ENDS
315+30.44

7'
3.75'
18'
7'
24'
40'

MATCHLINE STA. 313+00

313
313+95.00
314
315+00
316
IL 26
317
318

67.5' TAPER

IMPROVEMENT ENDS
315+50.00

7'
18'

H.M.A. SHOULDER

AGGREGATE SHOULDERS, TY B

HMA SURFACE REMOVAL, 1 1/2"

40'

EXISTING R.O.W

CONSTRUCTION LIMITS

TRAFFIC BARRIER
TERMINAL, TYPE 1 (SPECIAL) FLARED

LEGEND

TREE REMOVAL

LAWRENCE AND PRISCELLA GALLAGER

DORTHEA WITRY

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

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

715
710
705
700
695
690
685
680
675

ELEVATION 697.48

-0.89%

695.65

STA. 313+00 to 315+30.44
EARTH EX. = 117.5 CU.YDS.
EMB. = 354.0 CU.YDS.
HAUL IN = 265.9 CU.YDS.

697.17
697.48
696.78
697.03
696.43
696.59
696.14
696.14
695.84
695.53
695.29
695.16
695.06
694.94
694.80
694.68
694.55

313+50
314+00
314+50
315+00
315+50
316+00
316+50
317+00
317+50
318+00
318+50
319+00

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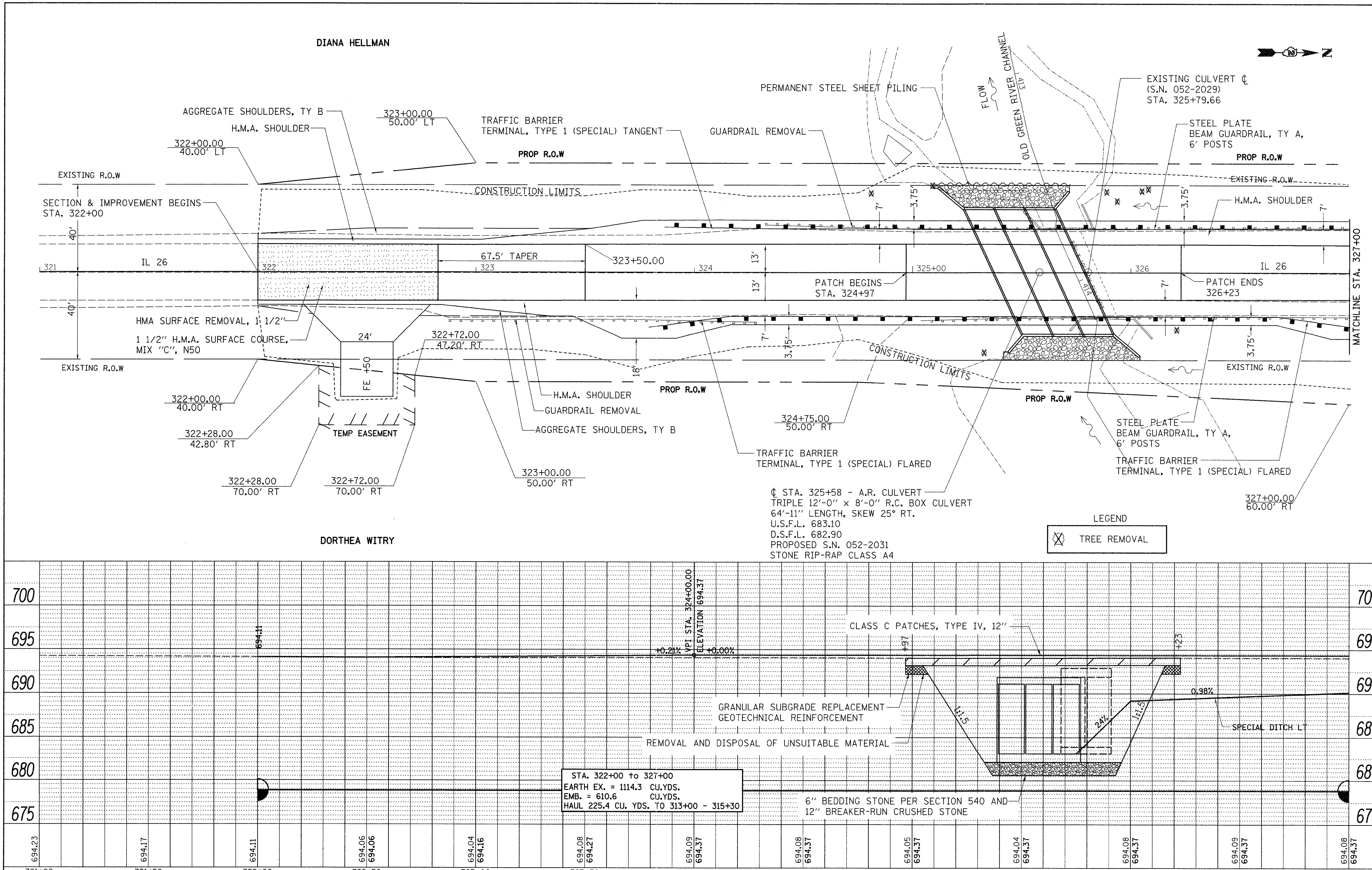
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26
052-0081 PLAN & PROFILE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-5, 102BR-6 & 102BR-7	LEE	216	27
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

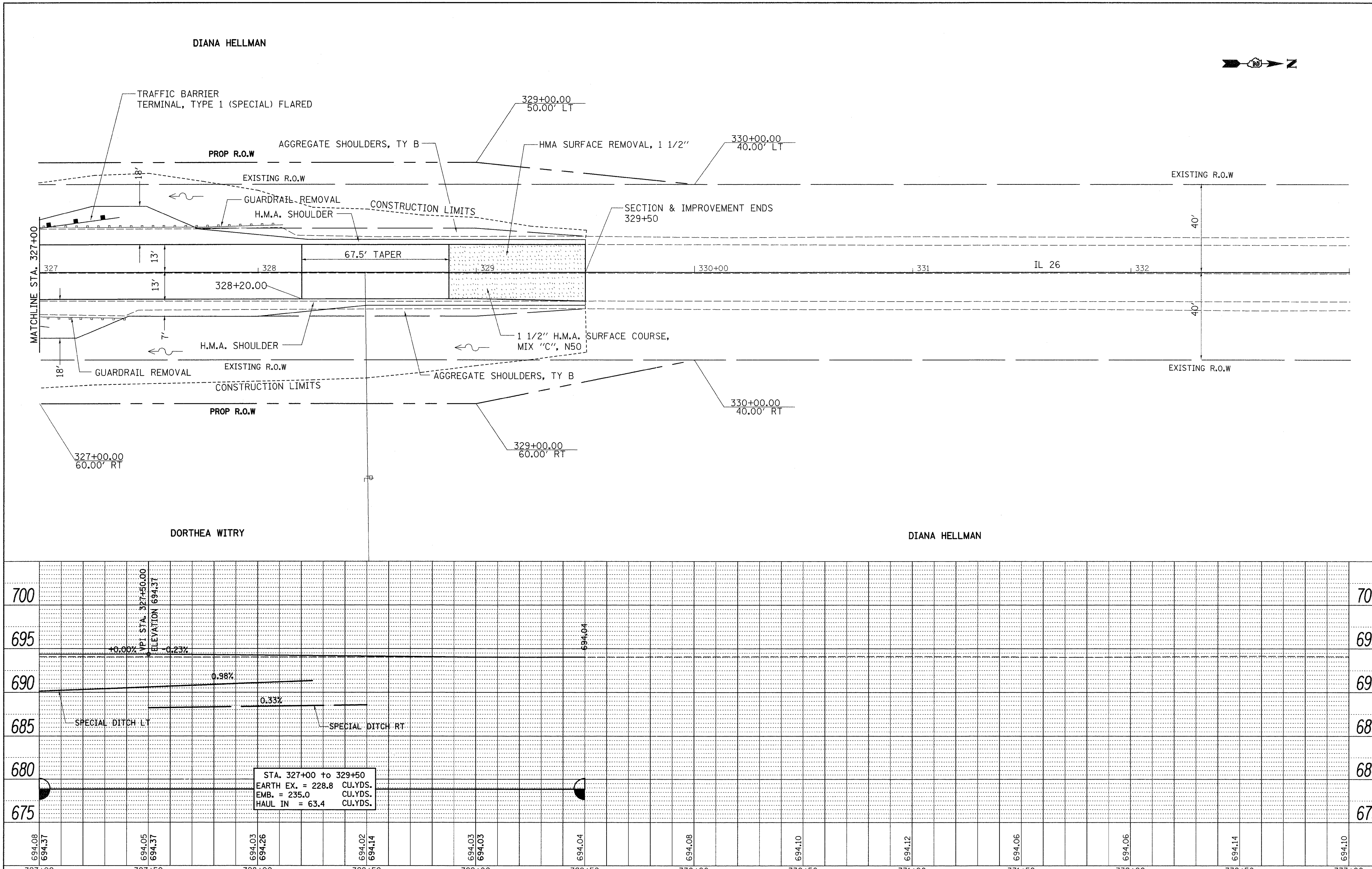
IL ROUTE 26
052-2031 PLAN & PROFILE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-5, 102BR-6 & 102BR-7	LEE	216	28

CONTRACT NO. 64D57

ILLINOIS FED. AID PROJECT



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 26
052-2031 PLAN & PROFILE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-5, 102BR-6 & 102BR-7	LEE	216	29

CONTRACT NO. 64D57

ILLINOIS FED. AID PROJECT

PLAN

DATE	BY	
		SURVEYED
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		RT. OF WAY CHECKED
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		NOTE BOOK
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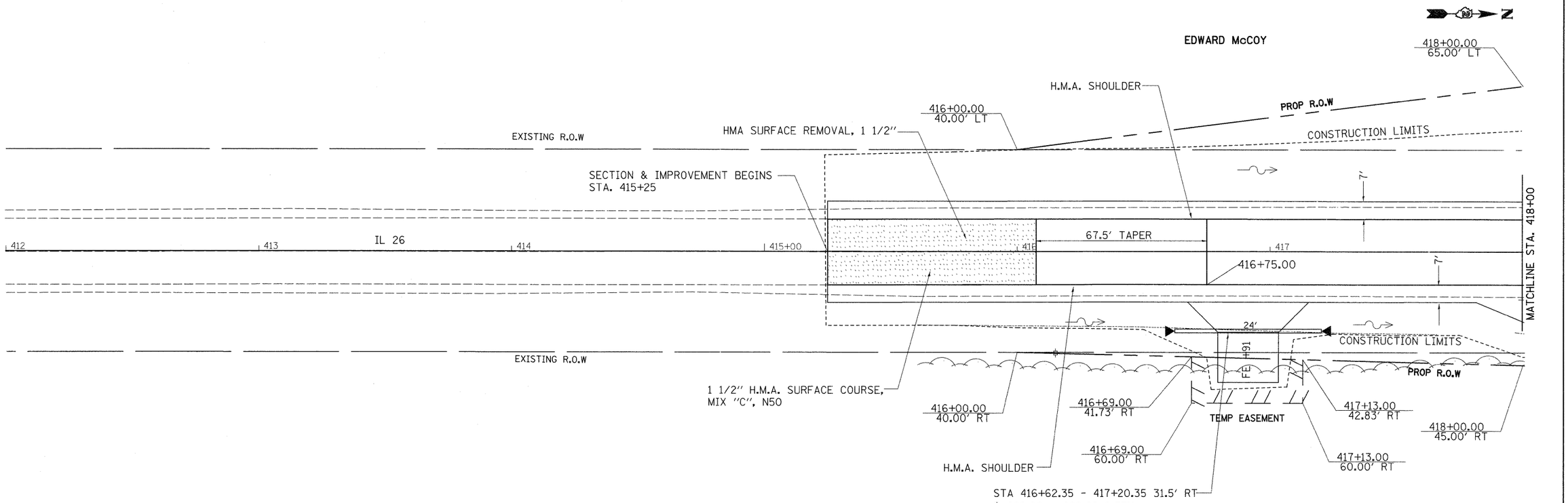
EDWARD McCOY



PROFILE

DATE	BY	
		SURVEYED
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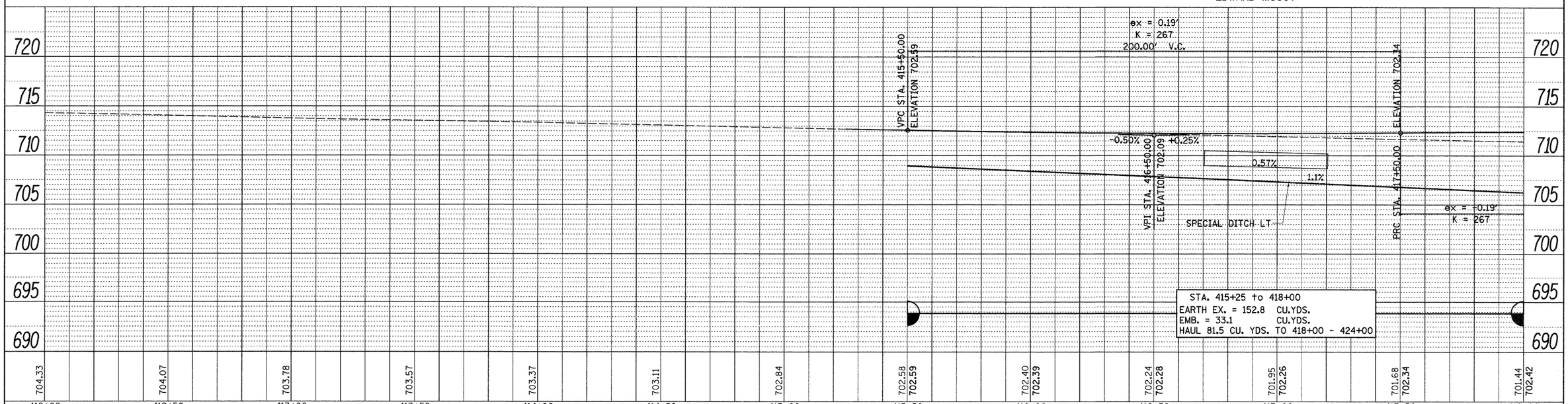
		NOTE BOOK
		NO.

EDWARD McCOY



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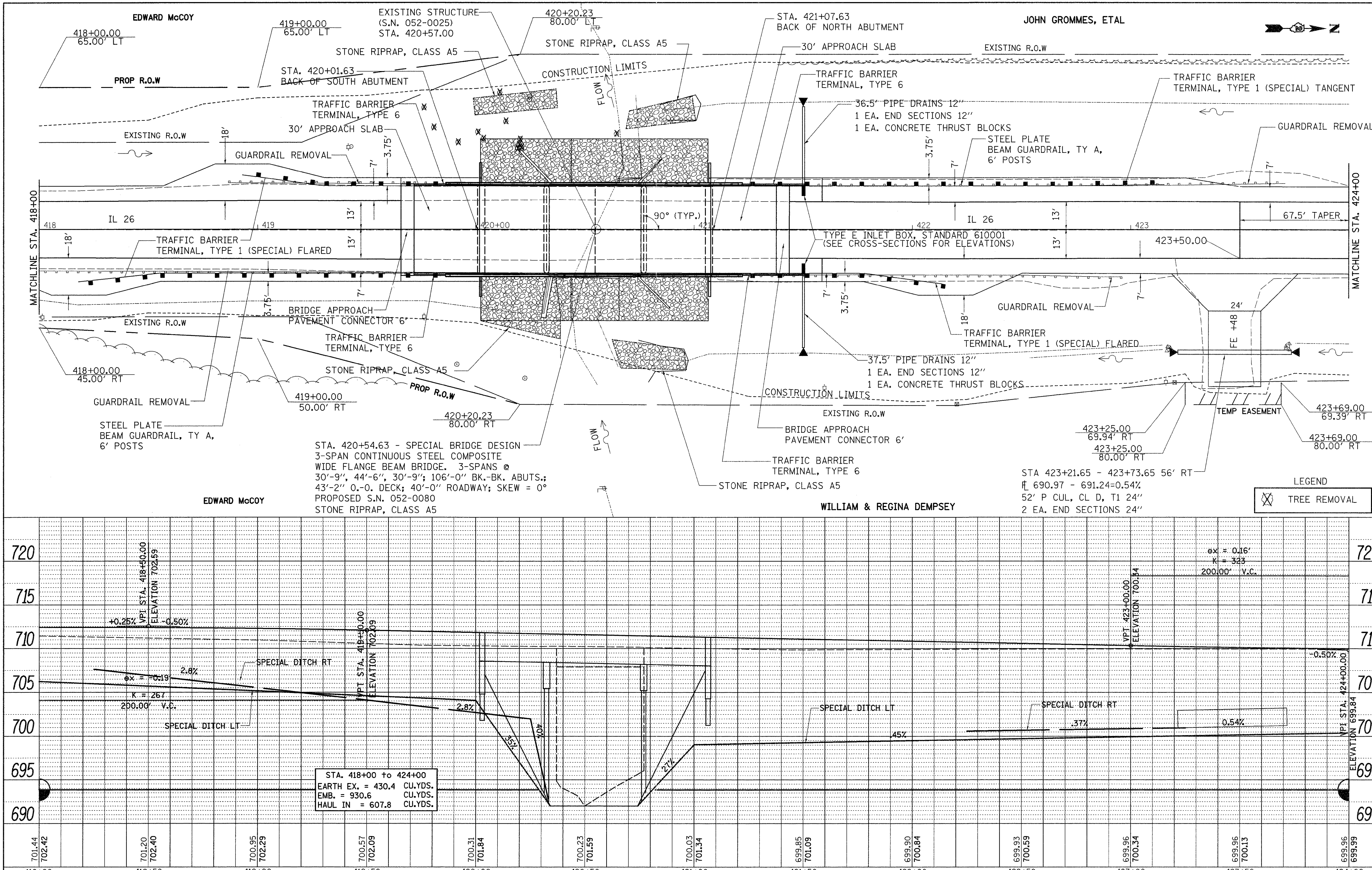
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26
052-0080 PLAN & PROFILE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-5, 102BR-6 & 102BR-7	LEE	216	30
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			



EDWARD McCOY
418+00.00
65.00' LT
419+00.00
65.00' LT
EXISTING STRUCTURE
(S.N. 052-0025)
STA. 420+57.00
420+20.23
80.00' LT
STA. 421+07.63
BACK OF NORTH ABUTMENT
JOHN GROMMES, ETAL
STONE RIPRAP, CLASS A5
30' APPROACH SLAB
EXISTING R.O.W
PROP R.O.W
STA. 420+01.63
BACK OF SOUTH ABUTMENT
CONSTRUCTION LIMITS
FLOW
TRAFFIC BARRIER
TERMINAL, TYPE 6
TRAFFIC BARRIER
TERMINAL, TYPE 1 (SPECIAL) TANGENT
36.5' PIPE DRAINS 12"
1 EA. END SECTIONS 12"
1 EA. CONCRETE THRUST BLOCKS
GUARDRAIL REMOVAL
STEEL PLATE
BEAM GUARDRAIL, TY A,
6' POSTS
MATCHLINE STA. 418+00
MATCHLINE STA. 424+00
IL 26
90° (TYP.)
67.5' TAPER
TRAFFIC BARRIER
TERMINAL, TYPE 1 (SPECIAL) FLARED
TYPE E INLET BOX, STANDARD 610001
(SEE CROSS-SECTIONS FOR ELEVATIONS)
423+50.00
BRIDGE APPROACH
PAVEMENT CONNECTOR 6'
24'
FE +48
37.5' PIPE DRAINS 12"
1 EA. END SECTIONS 12"
1 EA. CONCRETE THRUST BLOCKS
418+00.00
45.00' RT
419+00.00
50.00' RT
420+20.23
80.00' RT
TEMP EASEMENT
423+69.00
69.39' RT
423+69.00
80.00' RT
423+25.00
69.94' RT
423+25.00
80.00' RT
STA. 420+54.63 - SPECIAL BRIDGE DESIGN
3-SPAN CONTINUOUS STEEL COMPOSITE
WIDE FLANGE BEAM BRIDGE. 3-SPANS @
30'-9", 44'-6", 30'-9"; 106'-0" BK.-BK. ABUTS.;
43'-2" O.-O. DECK; 40'-0" ROADWAY; SKEW = 0°
PROPOSED S.N. 052-0080
STONE RIPRAP, CLASS A5
STA 423+21.65 - 423+73.65 56' RT
℄ 690.97 - 691.24=0.54%
52' P CUL, CL D, T1 24"
2 EA. END SECTIONS 24"
WILLIAM & REGINA DEMPSEY
LEGEND
TREE REMOVAL
VPI STA. 418+50.00
ELEVATION 702.59
+0.25%
-0.50%
VPT STA. 419+50.00
ELEVATION 702.09
VPI STA. 423+00.00
ELEVATION 700.34
VPI STA. 424+00.00
ELEVATION 699.84
ex = 0.16'
K = 323
200.00' V.C.
ex = 0.19'
K = 267
200.00' V.C.
SPECIAL DITCH RT
SPECIAL DITCH LT
2.8%
35%
40%
27%
45%
.37%
0.54%
-0.50%
STA. 418+00 to 424+00
EARTH EX. = 430.4 CU.YDS.
EMB. = 930.6 CU.YDS.
HAUL IN = 607.8 CU.YDS.
720
715
710
705
700
695
690
701.44
702.42
701.20
702.40
700.95
702.29
700.57
702.09
700.31
701.84
700.23
701.59
700.03
701.34
699.85
701.09
699.90
700.84
699.93
700.59
699.96
700.34
699.96
700.13
699.96
699.99
418+00
418+50
419+00
419+50
420+00
420+50
421+00
421+50
422+00
422+50
423+00
423+50
424+00

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DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26
052-0080 PLAN & PROFILE

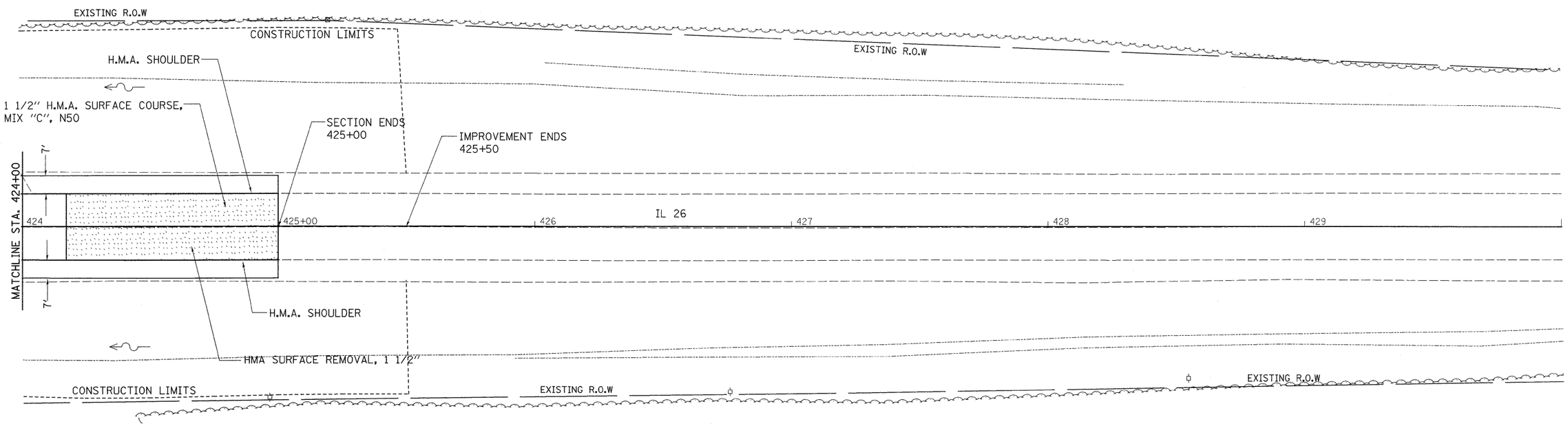
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-5, 102BR-6 & 102BR-7	LEE	216	31

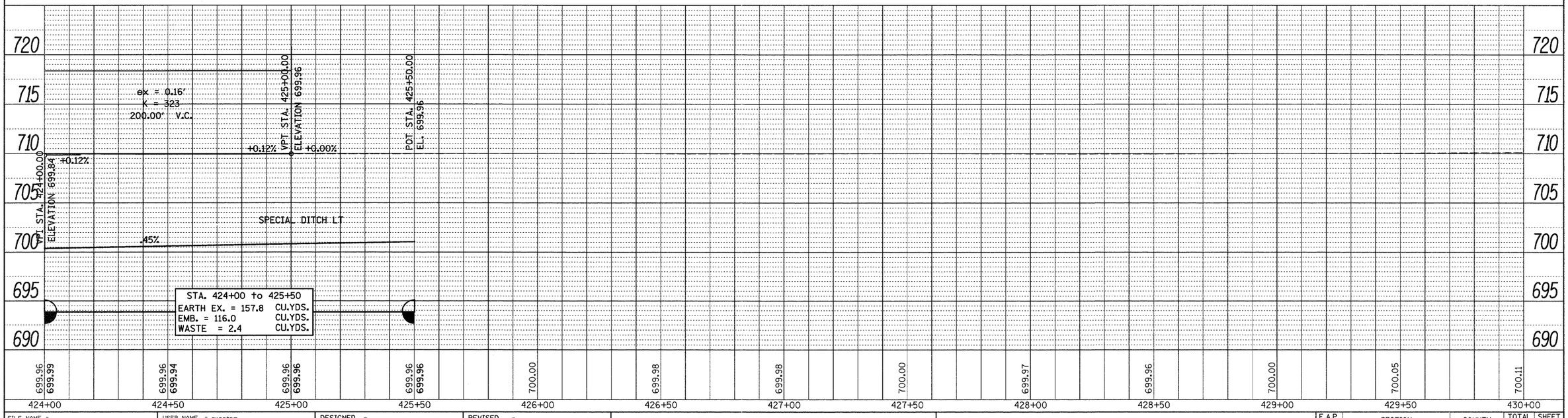
CONTRACT NO. 64D57

ILLINOIS FED. AID PROJECT

JOHN GROMMES, ETAL



WILLIAM & REGINA DEMPSEY



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26
052-0080 PLAN & PROFILE

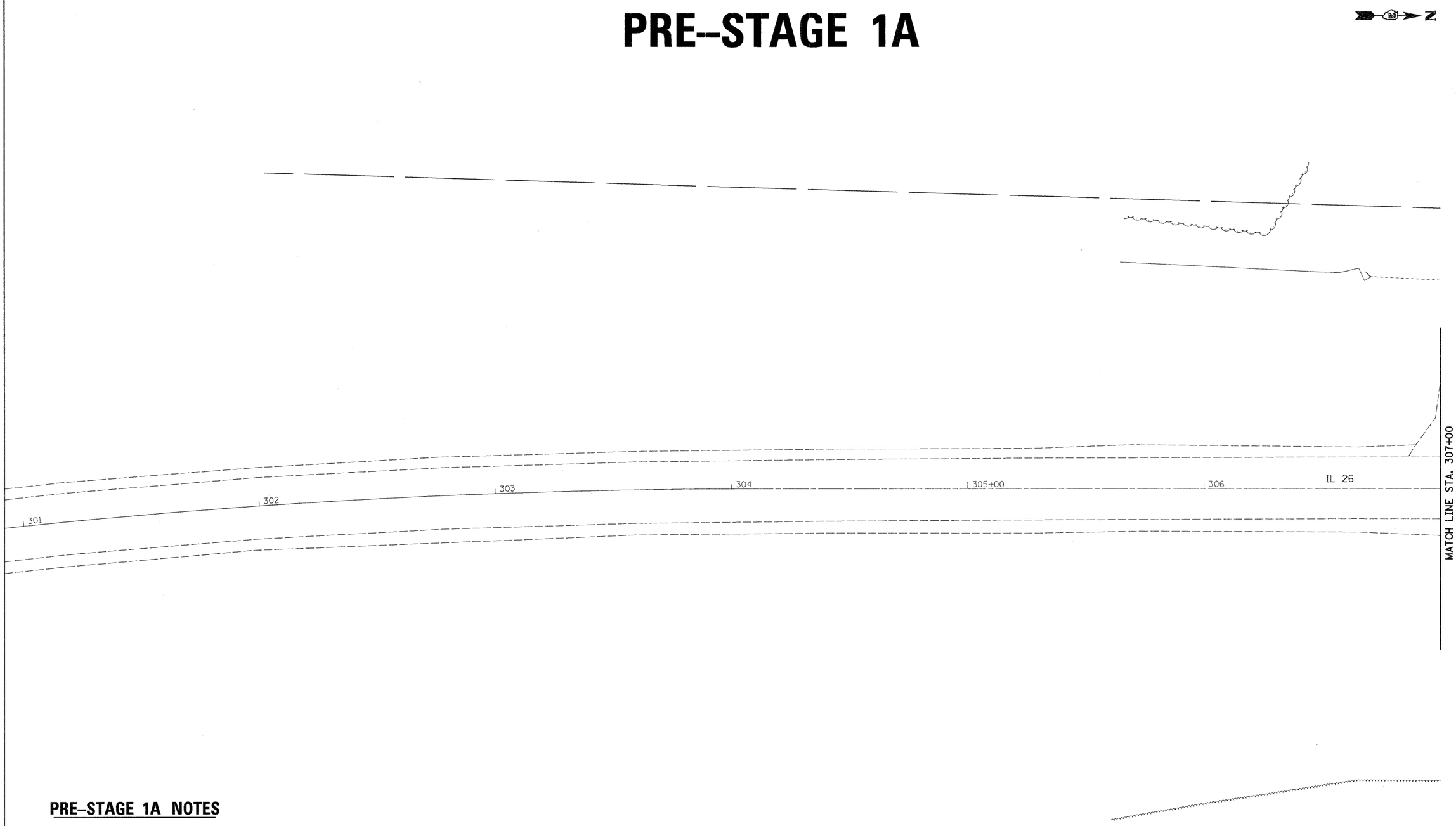
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-5, 102BR-6 & 102BR-7	LEE	216	32

CONTRACT NO. 64D57

ILLINOIS | FED. AID PROJECT

PRE--STAGE 1A



PRE-STAGE 1A NOTES

1. USE STANDARD 7010326 FOR SHOULDER WORK.
2. PLACE SHOULDERS FROM STA. 309+00 LT TO STA. 310+84.66 LT. AND STA. 312+05.90 LT TO STA. 314+00 LT.

* 102BR-5, 102BR-6 & 102BR-7

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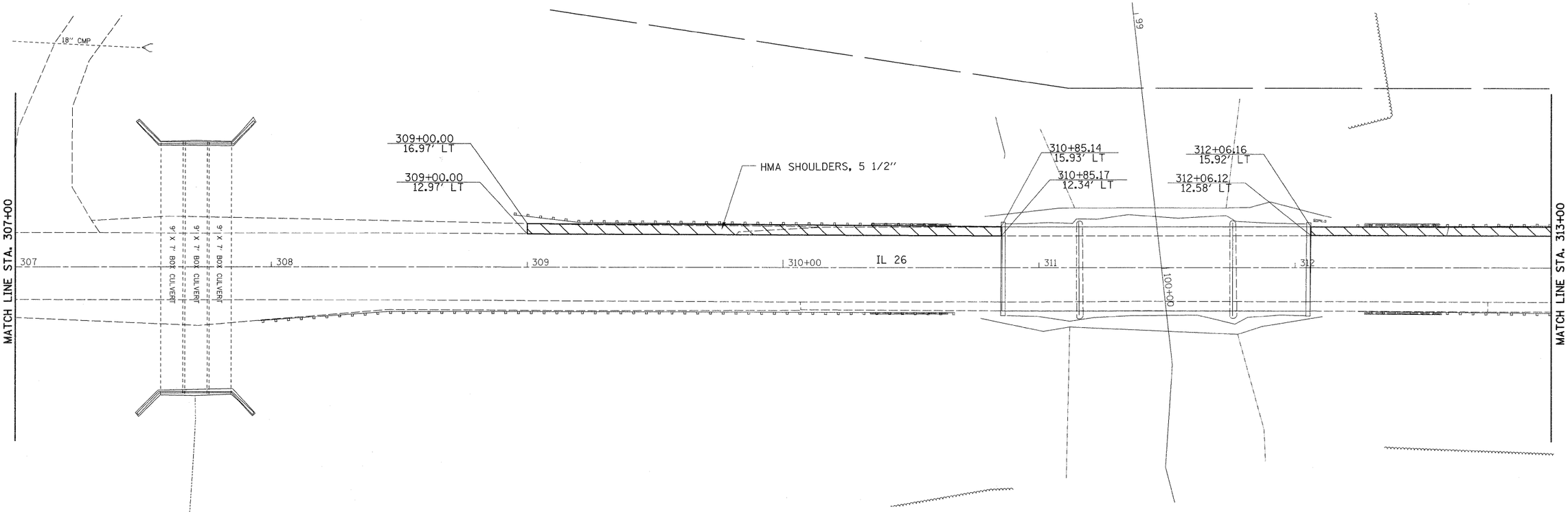
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052-0081 PRE-STAGE 1

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	33
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			

PRE–STAGE 1A



PRE–STAGE 1A NOTES

1. USE STANDARD 701326 FOR SHOULDER WORK.
2. PLACE SHOULDERS FROM STA. 309+00 LT TO STA. 310+84.66 LT. AND STA. 312+05.90 LT TO STA. 314+00 LT.

• 102BR-5, 102BR-6 & 102BR-7

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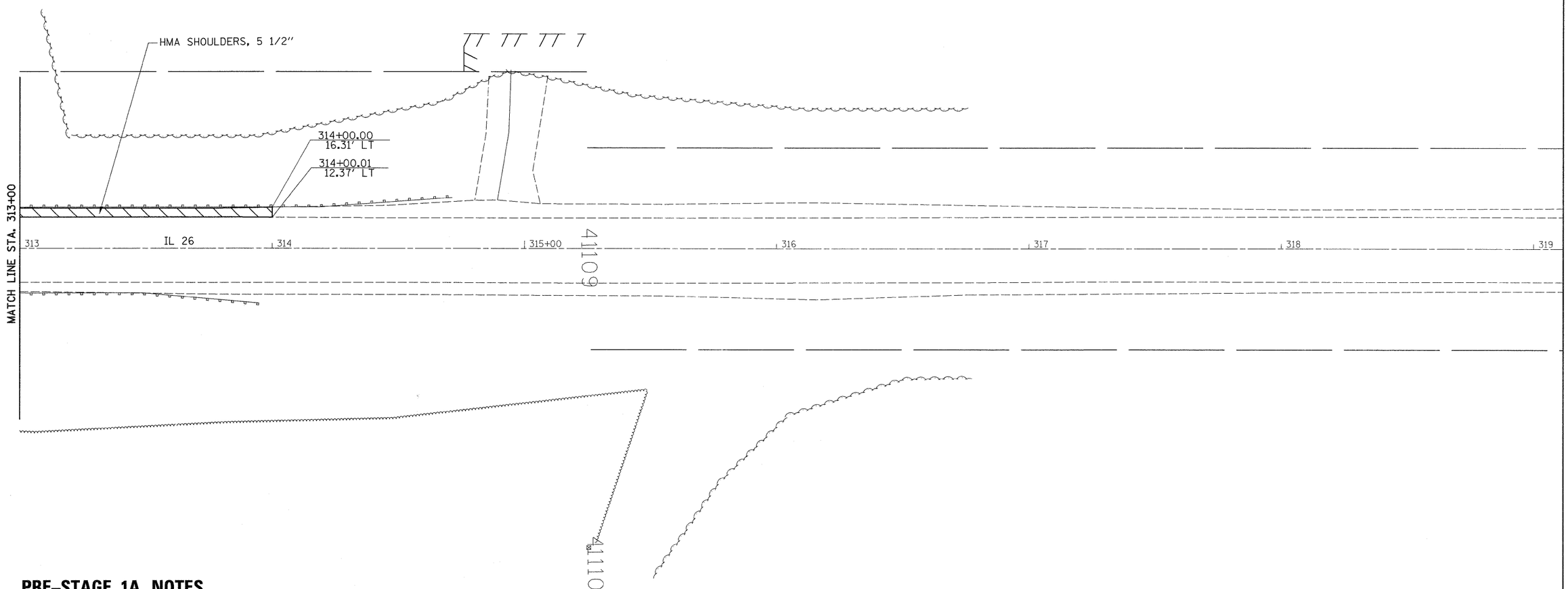
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052–0081 PRE–STAGE 1

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	34
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			

PRE–STAGE 1A



PRE–STAGE 1A NOTES

1. USE STANDARD 7010326 FOR SHOULDER WORK.
2. PLACE SHOULDERS FROM STA. 309+00 LT TO STA. 310+84.66 LT. AND STA. 312+05.90 LT TO STA. 314+00 LT.

• 102BR-5, 102BR-6 & 102BR-7

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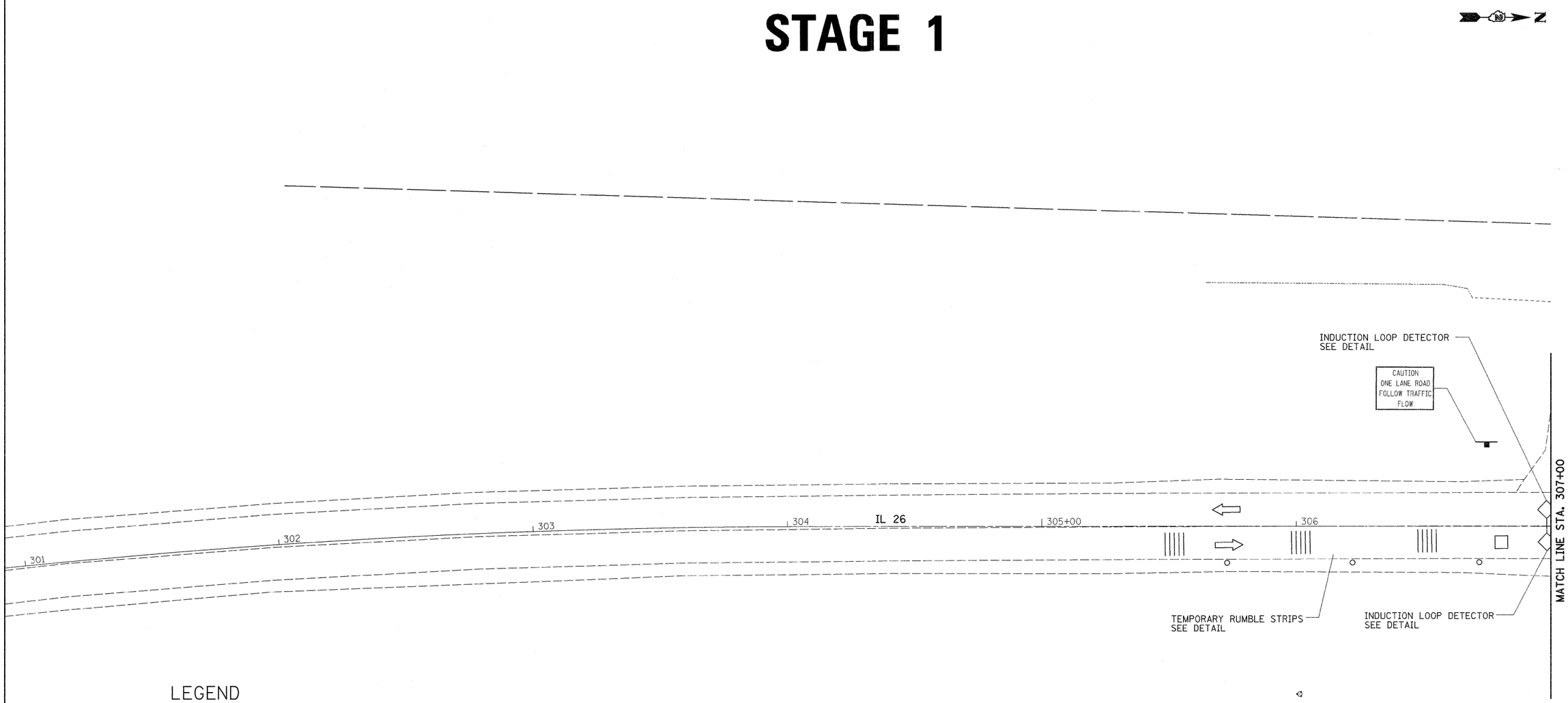
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052–0081 PRE–STAGE 1

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	35
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

STAGE 1



LEGEND

- = WORK ZONE
- = TYPE III BARRICADE WITH FLASHING LIGHTS
- = SIGN
- = BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
- = INDUCTION LOOP DETECTOR
- = TRAFFIC SIGNAL

STAGE 1 NOTES

1. USE STANDARD 701321.
2. CONSTRUCT BRIDGE RT TO STAGE CONSTRUCTION LINE.
3. CONSTRUCT TEMPORARY RAMPS.
4. INSTALL GUARDRAIL RT. EXISTING GUARDRAIL LT TO REMAIN IN PLACE

• 102BR-5, 102BR-6 & 102BR-7

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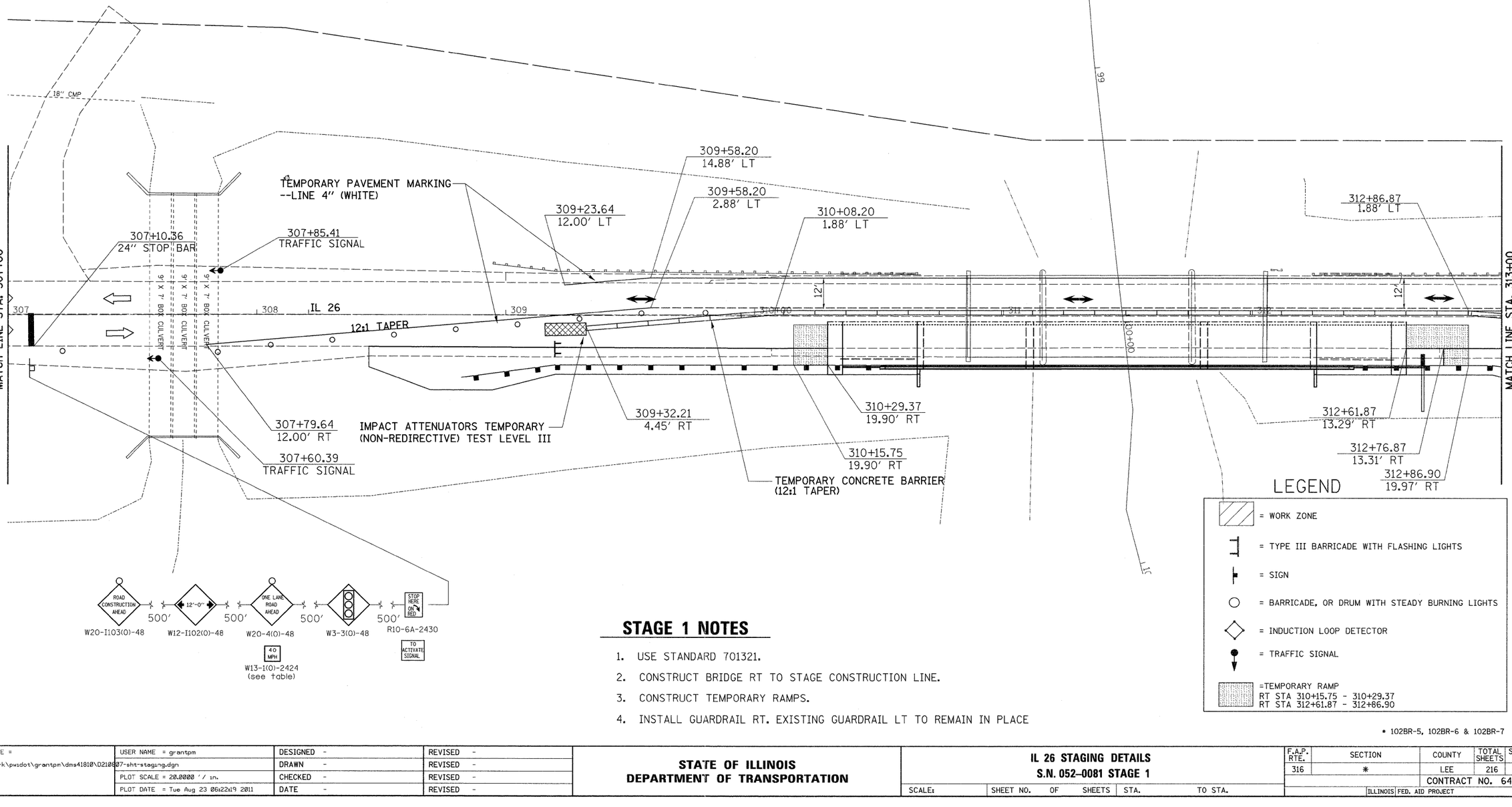
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052-0081 STAGE 1

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	36
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

STAGE 1



LEGEND

- = WORK ZONE
- = TYPE III BARRICADE WITH FLASHING LIGHTS
- = SIGN
- = BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
- = INDUCTION LOOP DETECTOR
- = TRAFFIC SIGNAL
- =TEMPORARY RAMP
  RT STA 310+15.75 - 310+29.37
  RT STA 312+61.87 - 312+86.90

STAGE 1 NOTES

1. USE STANDARD 701321.
2. CONSTRUCT BRIDGE RT TO STAGE CONSTRUCTION LINE.
3. CONSTRUCT TEMPORARY RAMPS.
4. INSTALL GUARDRAIL RT. EXISTING GUARDRAIL LT TO REMAIN IN PLACE

• 102BR-5, 102BR-6 & 102BR-7

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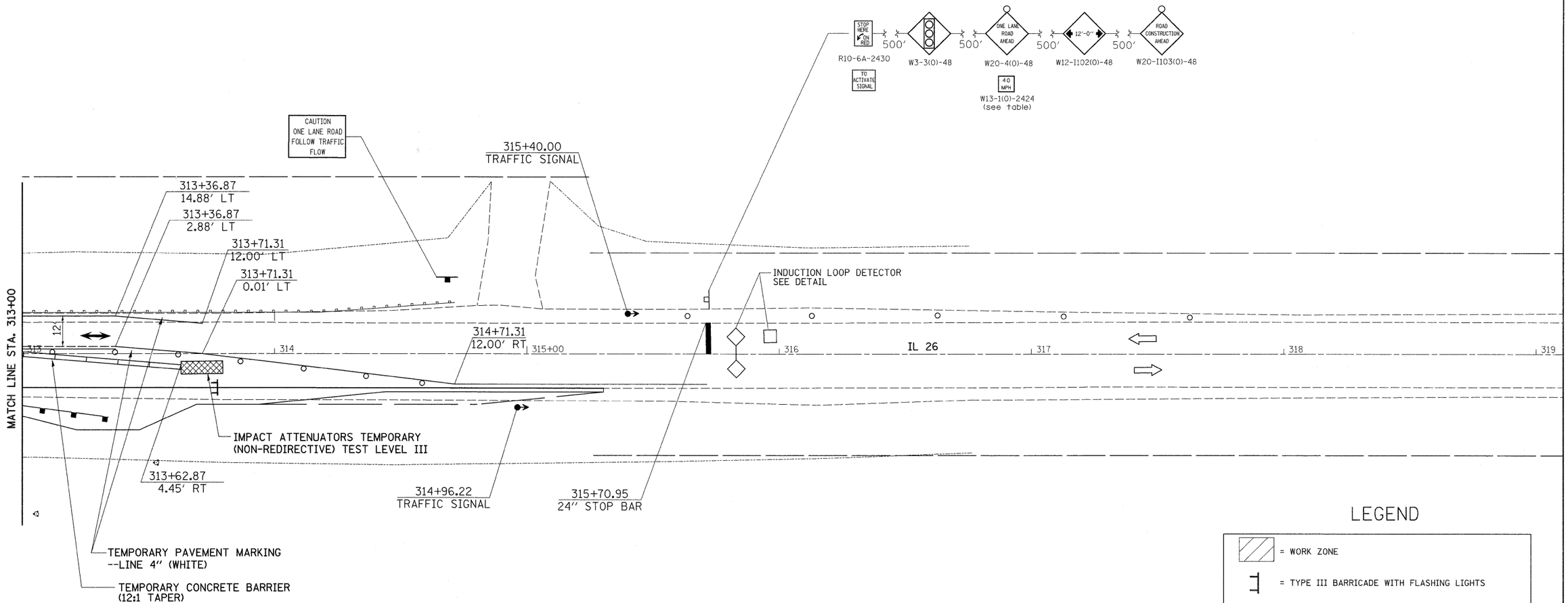
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052-0081 STAGE 1

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	37
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

STAGE 1



STAGE 1 NOTES

1. USE STANDARD 701321.
2. CONSTRUCT BRIDGE RT TO STAGE CONSTRUCTION LINE.
3. CONSTRUCT TEMPORARY RAMPS.
4. INSTALL GUARDRAIL RT. EXISTING GUARDRAIL LT TO REMAIN IN PLACE

LEGEND

- = WORK ZONE
- = TYPE III BARRICADE WITH FLASHING LIGHTS
- = SIGN
- = BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
- = INDUCTION LOOP DETECTOR
- = TRAFFIC SIGNAL

* 102BR-5, 102BR-6 & 102BR-7

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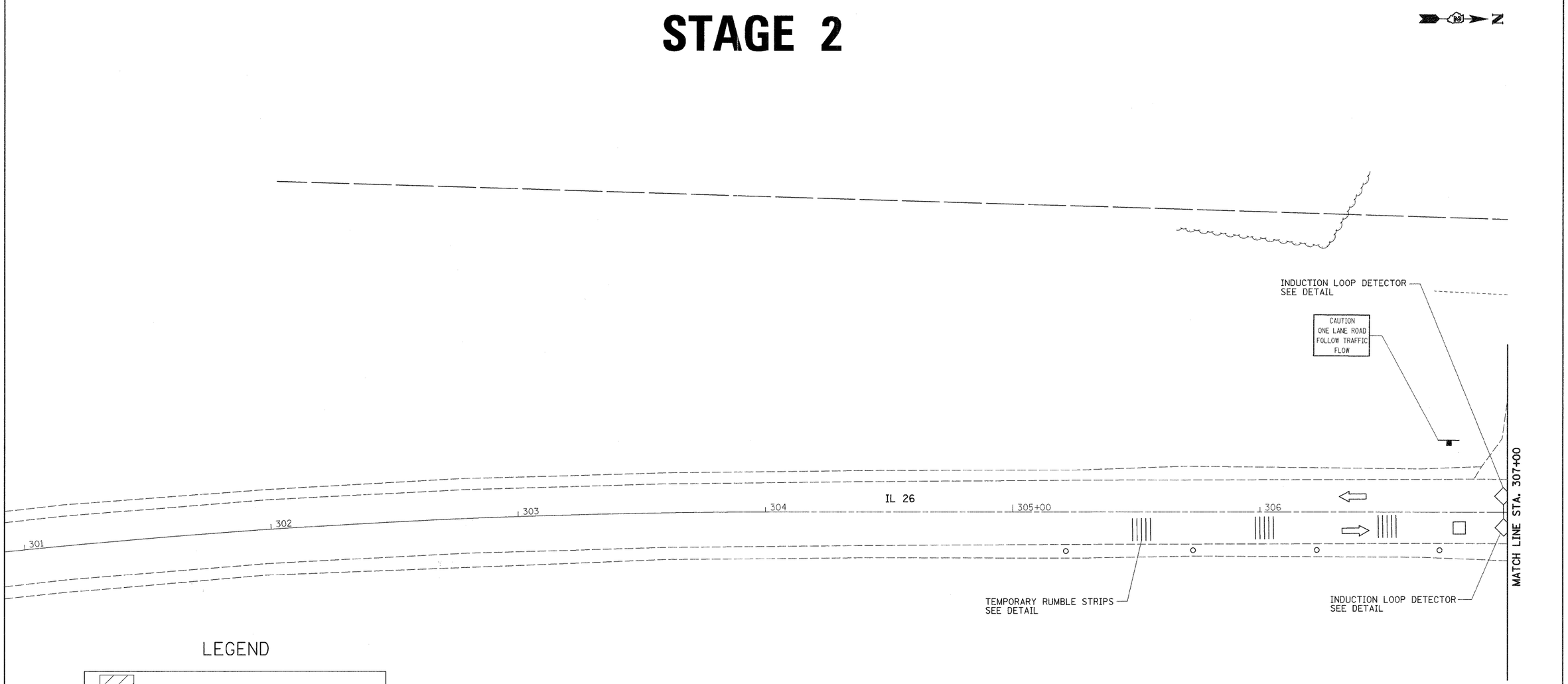
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052-0081 STAGE 1

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	38
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

STAGE 2



LEGEND

- = WORK ZONE
- = TYPE III BARRICADE WITH FLASHING LIGHTS
- = SIGN
- = BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
- = INDUCTION LOOP DETECTOR
- = TRAFFIC SIGNAL

STAGE 2 NOTES

1. USE STANDARD 701321.
2. CONSTRUCT BRIDGE LT TO STAGE CONSTRUCTION LINE.
3. CONSTRUCT TEMPORARY RAMPS.
4. INSTALL GUARDRAIL LT.

• 102BR-5, 102BR-6 & 102BR-7

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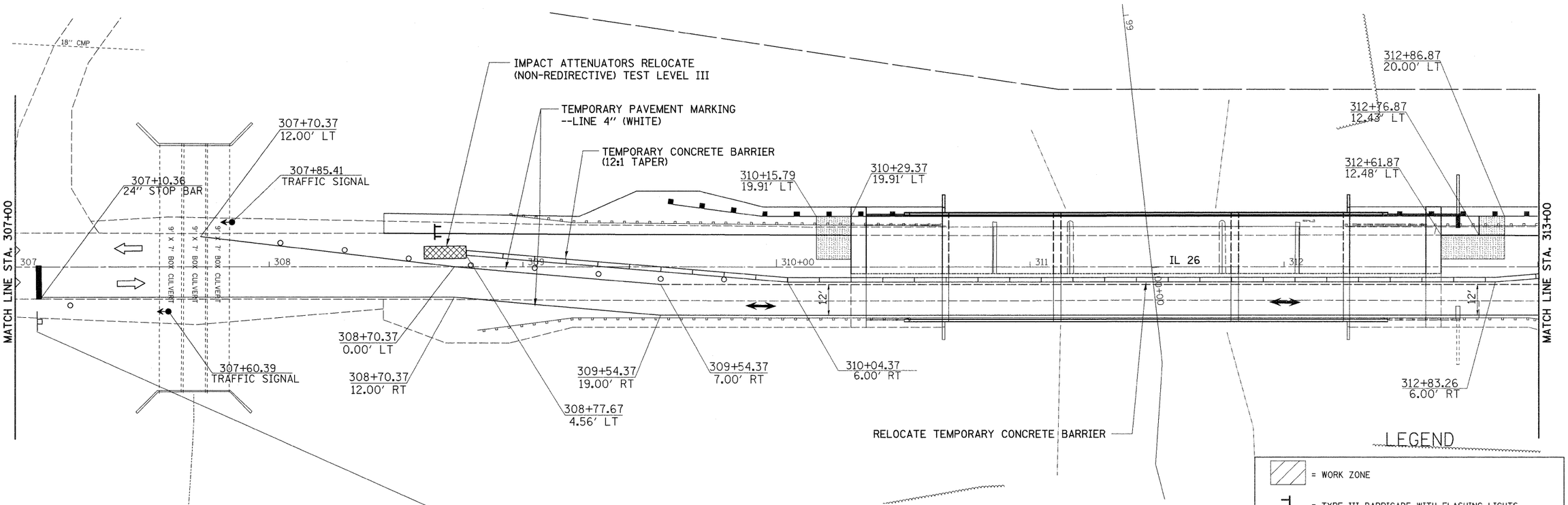
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052-0081 STAGE 2

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	39
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

STAGE 2



STAGE 2 NOTES

1. USE STANDARD 701321.
2. CONSTRUCT BRIDGE LT TO STAGE CONSTRUCTION LINE.
3. CONSTRUCT TEMPORARY RAMPS.
4. INSTALL GUARDRAIL LT.

LEGEND

- = WORK ZONE
- = TYPE III BARRICADE WITH FLASHING LIGHTS
- = SIGN
- = BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
- = INDUCTION LOOP DETECTOR
- = TRAFFIC SIGNAL
- =TEMPORARY RAMP
  LT STA 310+15.75 - 310+29.37
  LT STA 312+61.87 - 312+86.90

• 102BR-5, 102BR-6 & 102BR-7

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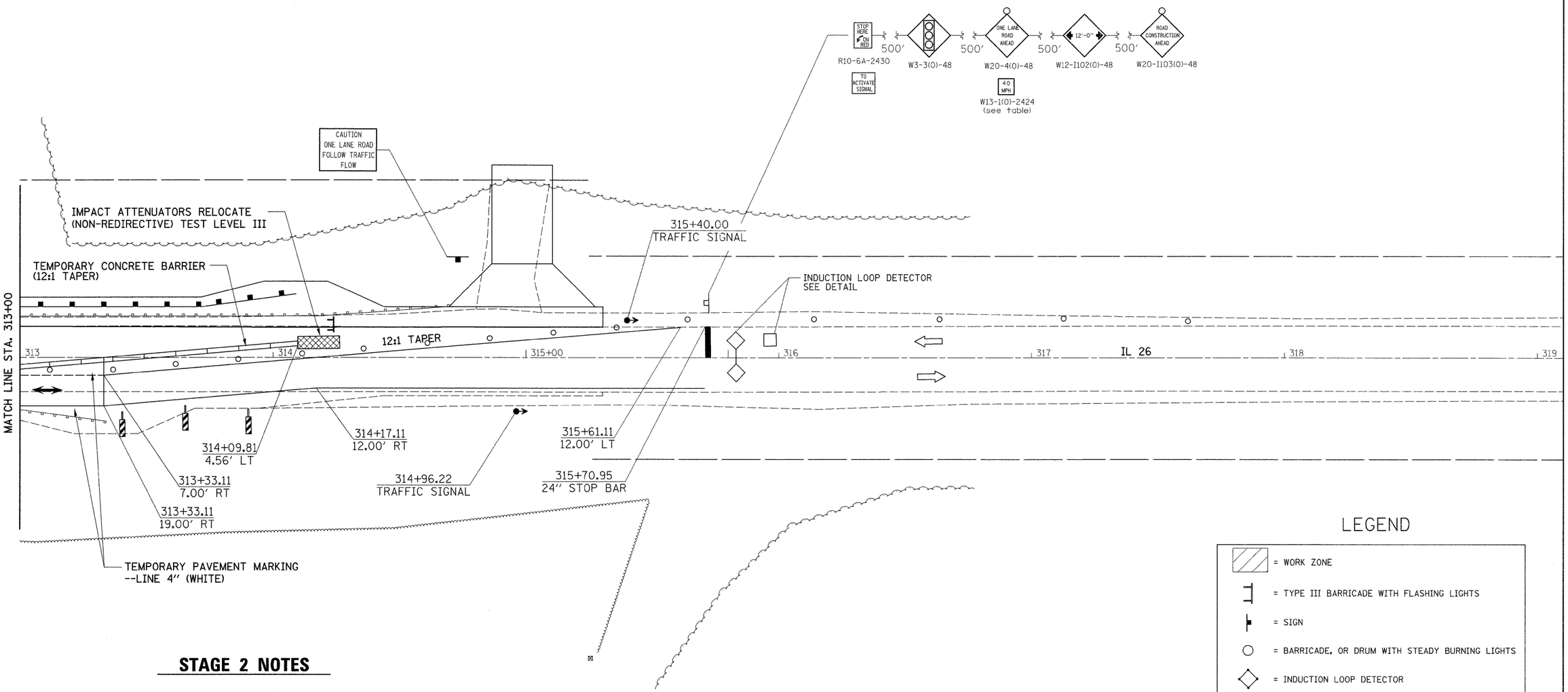
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052-0081 STAGE 2

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	40
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

STAGE 2



STAGE 2 NOTES

1. USE STANDARD 701321.
2. CONSTRUCT BRIDGE LT TO STAGE CONSTRUCTION LINE.
3. CONSTRUCT TEMPORARY RAMPS.
4. INSTALL GUARDRAIL LT.

LEGEND

- = WORK ZONE
- = TYPE III BARRICADE WITH FLASHING LIGHTS
- = SIGN
- = BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
- = INDUCTION LOOP DETECTOR
- = TRAFFIC SIGNAL

* 102BR-5, 102BR-6 & 102BR-7

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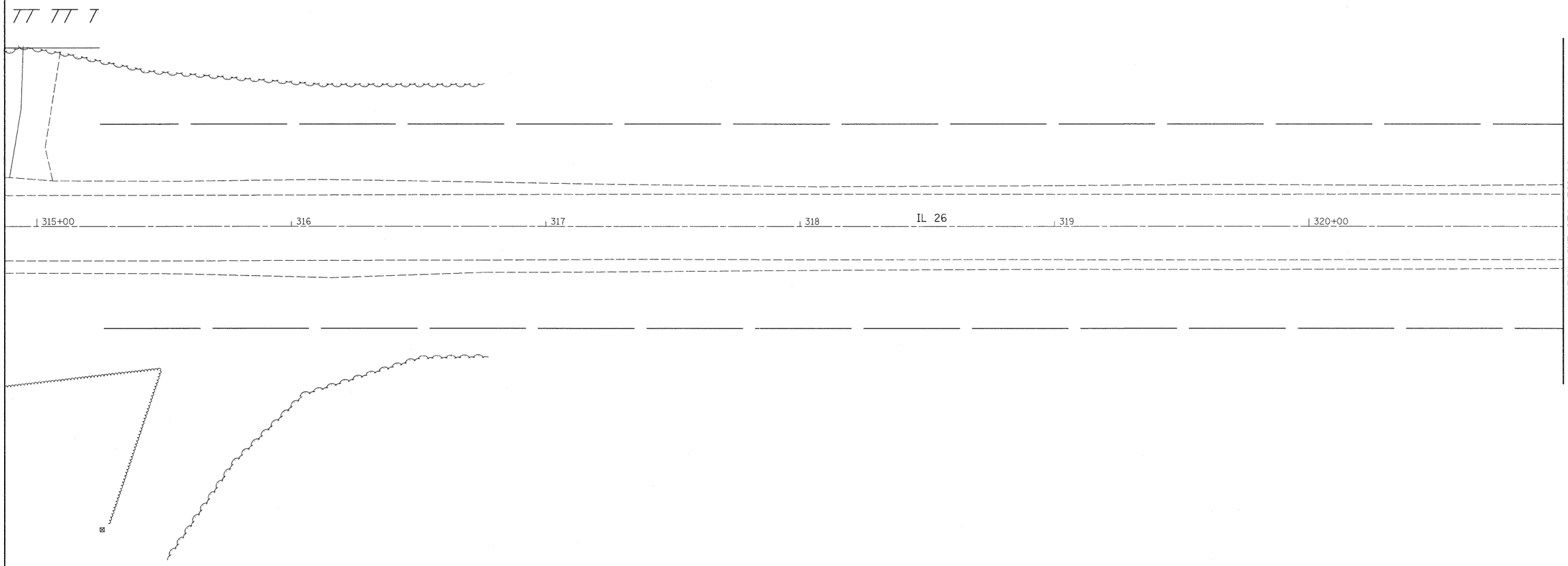
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052-0081 STAGE 2

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	41
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			

PRE–STAGE 1A



PRE–STAGE 1A NOTES

1. USE STANDARD 701326 FOR SHOULDER WORK.
2. PLACE SHOULDERS FROM STA. 323+55.09 LT TO STA. 327+65.56 LT.

* 102BR-5, 102BR-6 & 102BR-7

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	PLOT DATE = Tue Aug 23 06:22:22 2011	DATE -	REVISED -

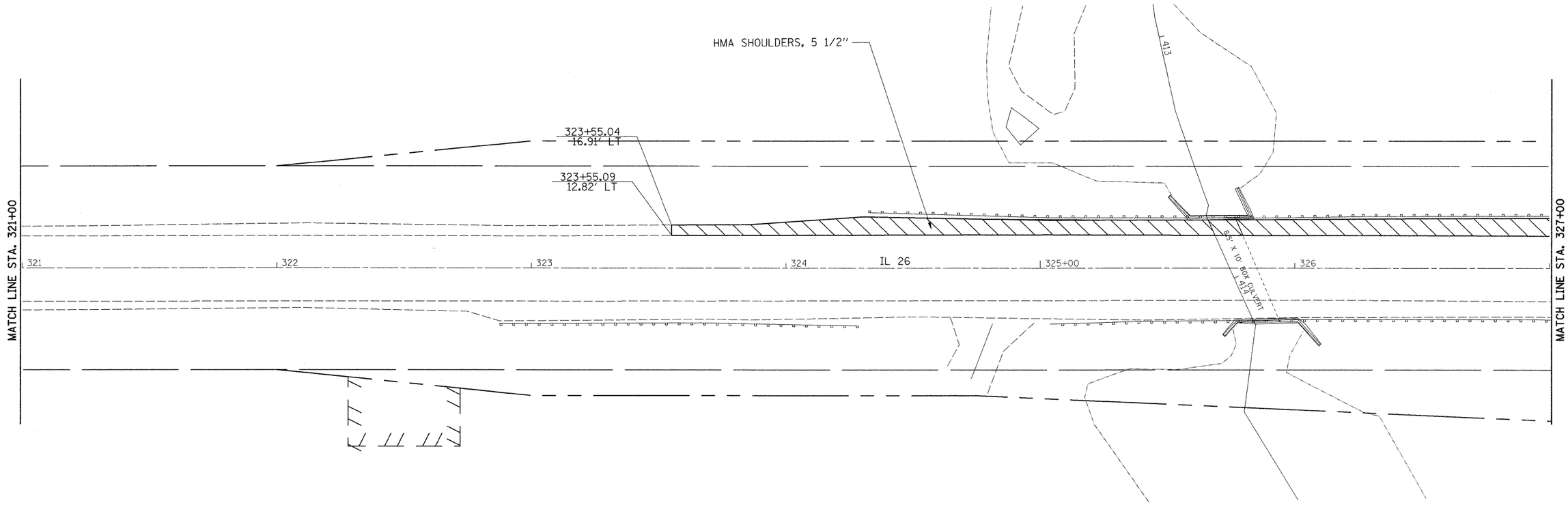
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052–2031 PRE–STAGE 1

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	42
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

PRE–STAGE 1A



PRE–STAGE 1A NOTES

1. USE STANDARD 701326 FOR SHOULDER WORK.
2. PLACE SHOULDERS FROM STA. 323+55.09 LT TO STA. 327+65.56 LT.

* 102BR-5, 102BR-6 & 102BR-7

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052–2031 PRE–STAGE 1

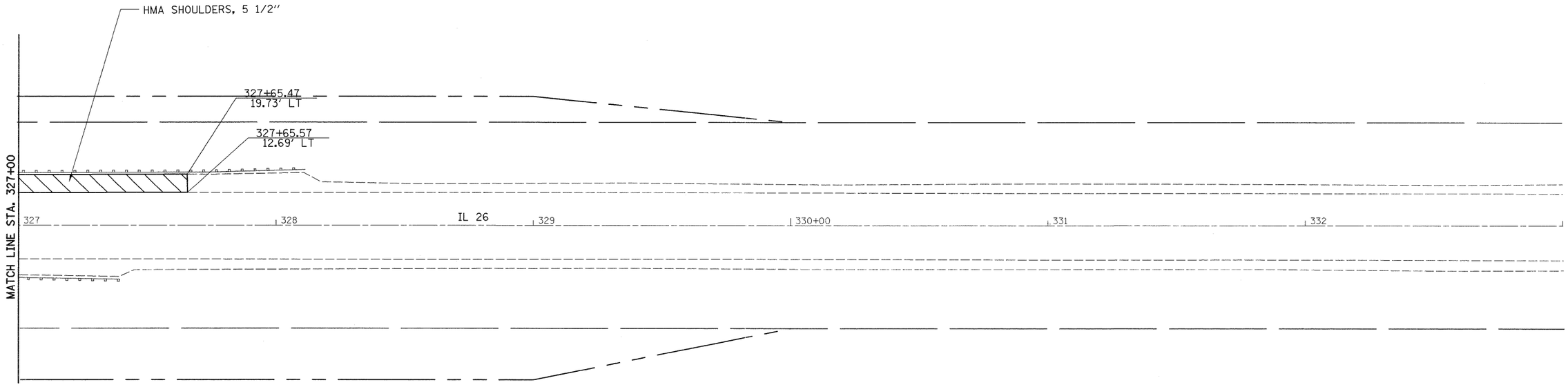
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	43

CONTRACT NO. 64D57

ILLINOIS FED. AID PROJECT

PRE–STAGE 1A



PRE–STAGE 1A NOTES

1. USE STANDARD 701326 FOR SHOULDER WORK.
2. PLACE SHOULDERS FROM STA. 323+55.09 LT TO STA. 327+65.56 LT.

• 102BR-5, 102BR-6 & 102BR-7

FILE NAME = c:\pw_work\pwidot\grantpm\dms41810\D2108807-sht-staging.dgn	USER NAME = grantpm	DESIGNED -	REVISED -
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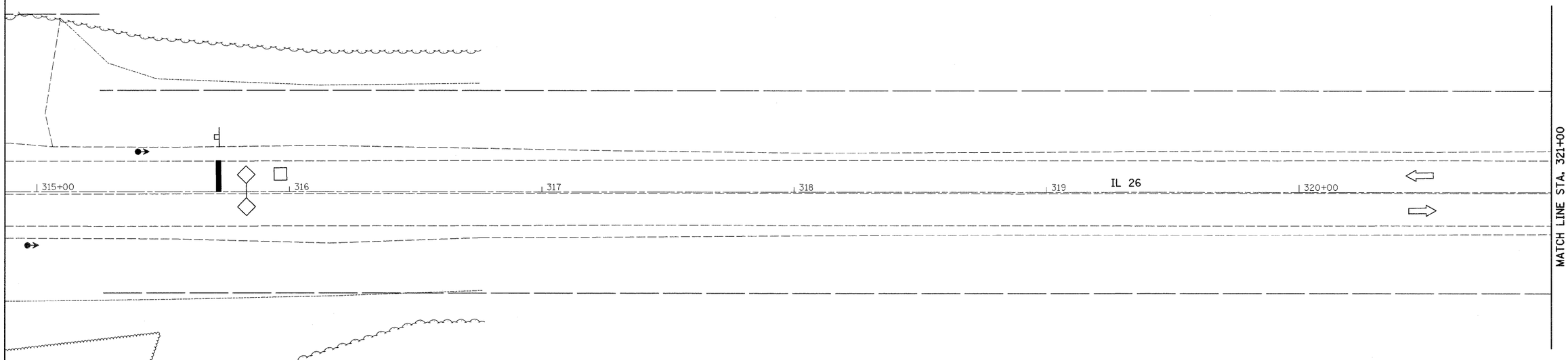
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052–2031 PRE–STAGE 1

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	44
		CONTRACT NO. 64D57		
	ILLINOIS	FED. AID PROJECT		

STAGE 1



LEGEND

- = WORK ZONE
- = TYPE III BARRICADE WITH FLASHING LIGHTS
- = SIGN
- = BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
- = INDUCTION LOOP DETECTOR
- = TRAFFIC SIGNAL

STAGE 1 NOTES

1. USE STANDARD 701321.
2. CONSTRUCT CULVERT RT TO STAGE CONSTRUCTION LINE.
3. INSTALL GUARDRAIL RT. EXISTING GUARDRAIL LT TO REMAIN IN PLACE.

• 102BR-5, 102BR-6 & 102BR-7

FILE NAME = c:\pw_work\pwidot\grantpm\dms41810\D2108607-sht-staging.dgn	USER NAME = grantpm	DESIGNED -	REVISED -
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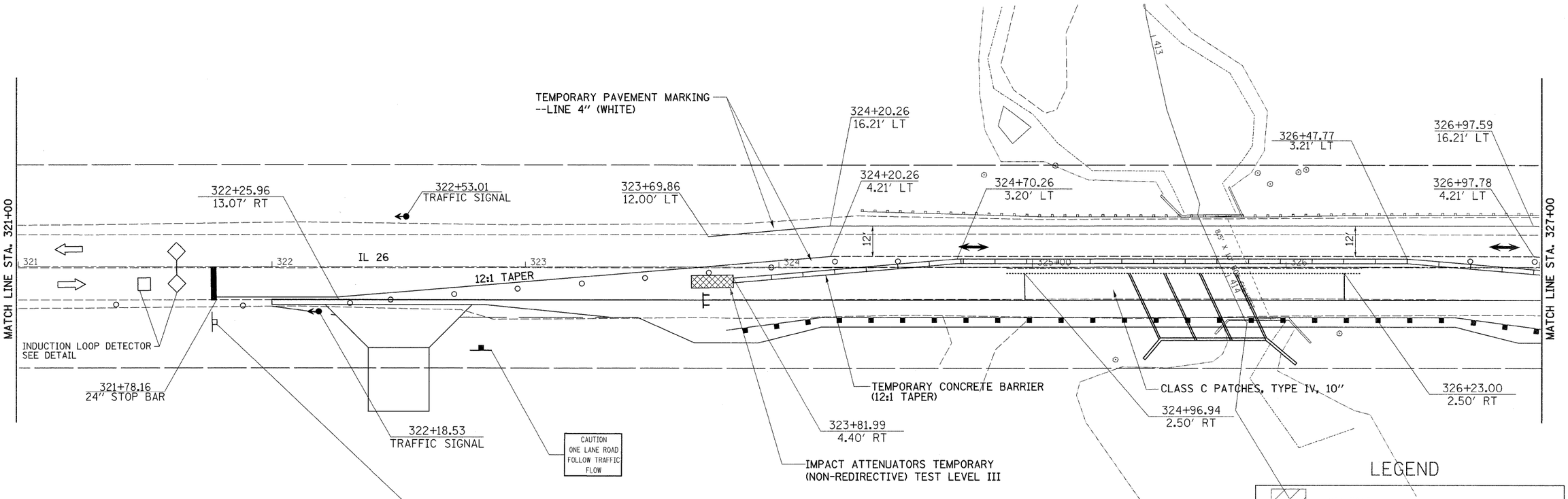
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052-2031 STAGE 1

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	45
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			

STAGE 1



STAGE 1 NOTES

1. USE STANDARD 701321.
2. CONSTRUCT CULVERT RT TO STAGE CONSTRUCTION LINE.
3. INSTALL GUARDRAIL RT. EXISTING GUARDRAIL LT TO REMAIN IN PLACE.

LEGEND

- = WORK ZONE
- = TYPE III BARRICADE WITH FLASHING LIGHTS
- = SIGN
- = BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
- = INDUCTION LOOP DETECTOR
- = TRAFFIC SIGNAL

* 102BR-5, 102BR-6 & 102BR-7

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	PLOT DATE = Tue Aug 23 06:22:24 2011	DATE -	REVISED -

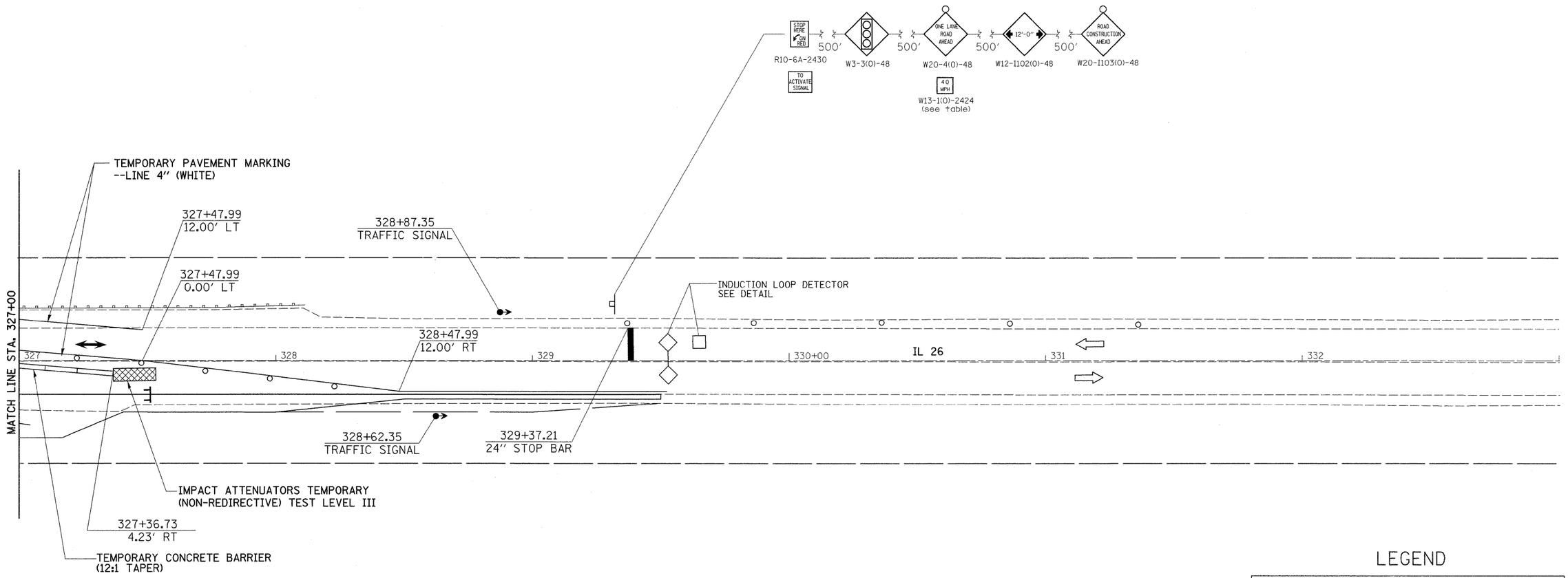
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052-2031 STAGE 1

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	46
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			

STAGE 1



STAGE 1 NOTES

1. USE STANDARD 701321.
2. CONSTRUCT CULVERT RT TO STAGE CONSTRUCTION LINE.
3. INSTALL GUARDRAIL RT. EXISTING GUARDRAIL LT TO REMAIN IN PLACE.

LEGEND

- = WORK ZONE
- = TYPE III BARRICADE WITH FLASHING LIGHTS
- = SIGN
- = BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
- = INDUCTION LOOP DETECTOR
- = TRAFFIC SIGNAL

* 102BR-5, 102BR-6 & 102BR-7

FILE NAME = c:\pw_work\pwidot\grantpm\dms41810\D2108807-sht-staging.dgn	USER NAME = grantpm	DESIGNED -	REVISED -
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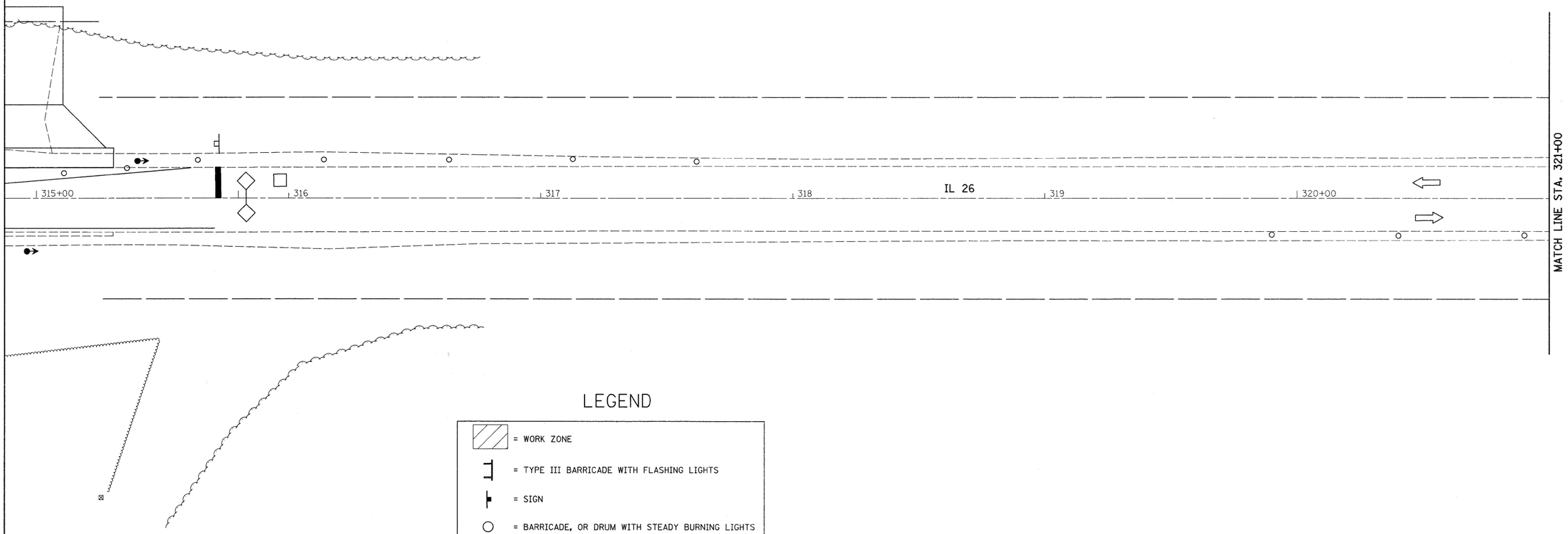
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052-2031 STAGE 1

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	47
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			

STAGE 2



LEGEND

- = WORK ZONE
- = TYPE III BARRICADE WITH FLASHING LIGHTS
- = SIGN
- = BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
- = INDUCTION LOOP DETECTOR
- = TRAFFIC SIGNAL

STAGE 2 NOTES

1. USE STANDARD 701321.
2. CONSTRUCT CULVERT LT TO STAGE CONSTRUCTION LINE.
3. INSTALL GUARDRAIL LT.

* 102BR-5, 102BR-6 & 102BR-7

FILE NAME = c:\pw_work\pwidot\grantpm\dms41810\D2108807-sht-staging.dgn	USER NAME = grantpm	DESIGNED -	REVISED -
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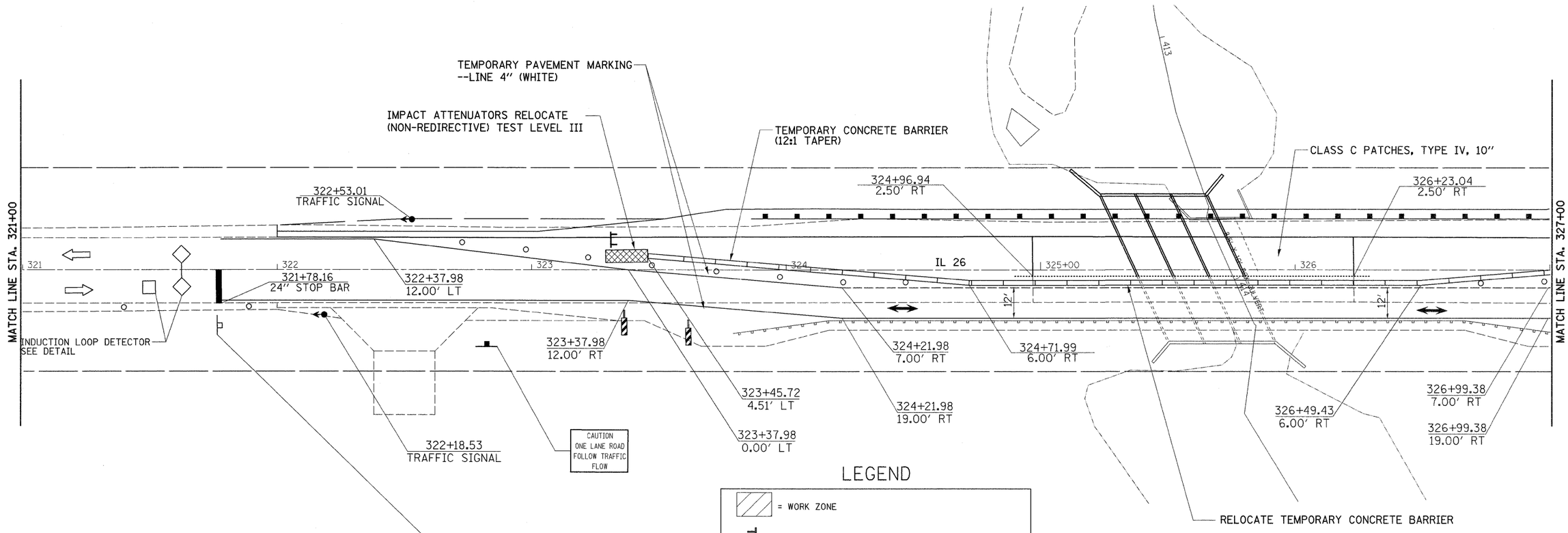
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

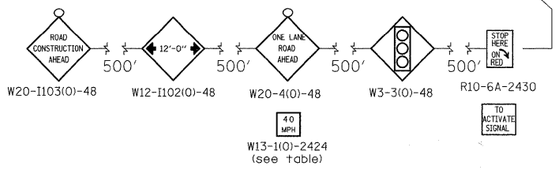
IL 26 STAGING DETAILS
S.N. 052-2031 STAGE 2

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	48
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

STAGE 2





LEGEND

- = WORK ZONE
- = TYPE III BARRICADE WITH FLASHING LIGHTS
- = SIGN
- = BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
- = INDUCTION LOOP DETECTOR
- = TRAFFIC SIGNAL

STAGE 2 NOTES

1. USE STANDARD 701321.
2. CONSTRUCT CULVERT LT TO STAGE CONSTRUCTION LINE.
3. INSTALL GUARDRAIL LT.

• 102BR-5, 102BR-6 & 102BR-7

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	PLOT DATE = Tue Aug 23 06:22:26 2011	DATE -	REVISED -

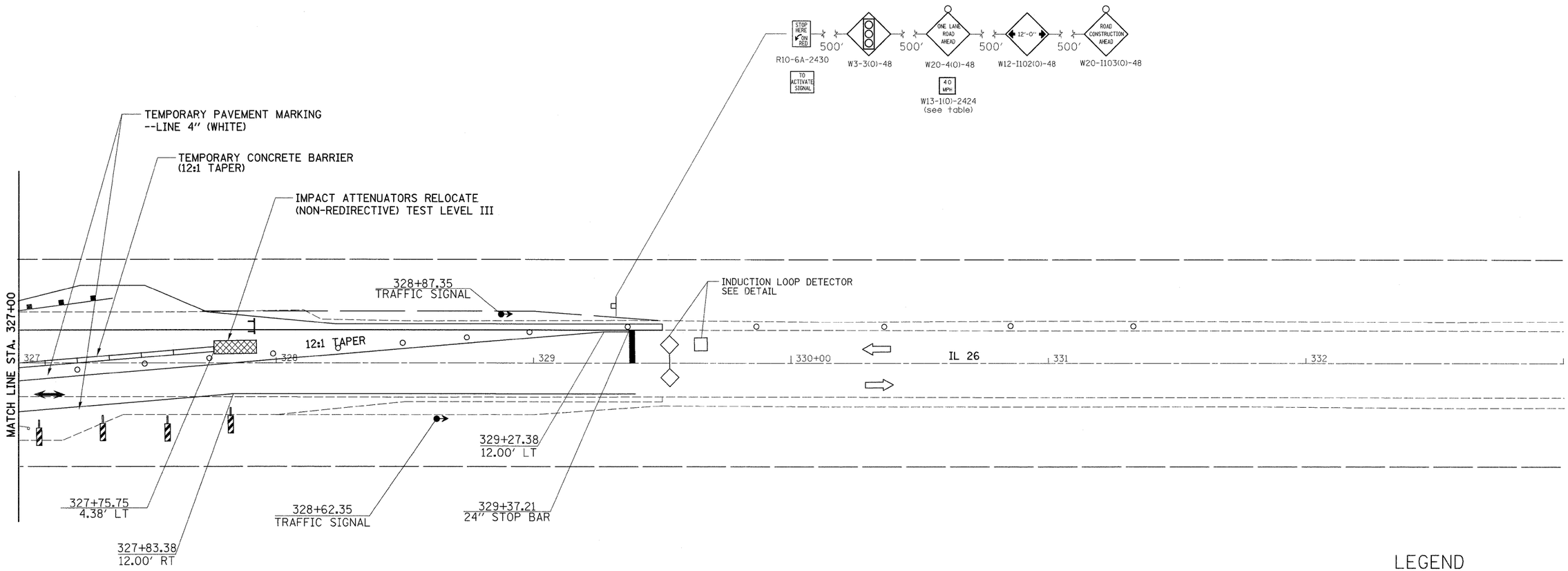
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052-2031 STAGE 2

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	49
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

STAGE 2



STAGE 2 NOTES

1. USE STANDARD 701321.
2. CONSTRUCT CULVERT LT TO STAGE CONSTRUCTION LINE.
3. INSTALL GUARDRAIL LT.

LEGEND

- = WORK ZONE
- = TYPE III BARRICADE WITH FLASHING LIGHTS
- = SIGN
- = BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
- = INDUCTION LOOP DETECTOR
- = TRAFFIC SIGNAL

• 102BR-5, 102BR-6 & 102BR-7

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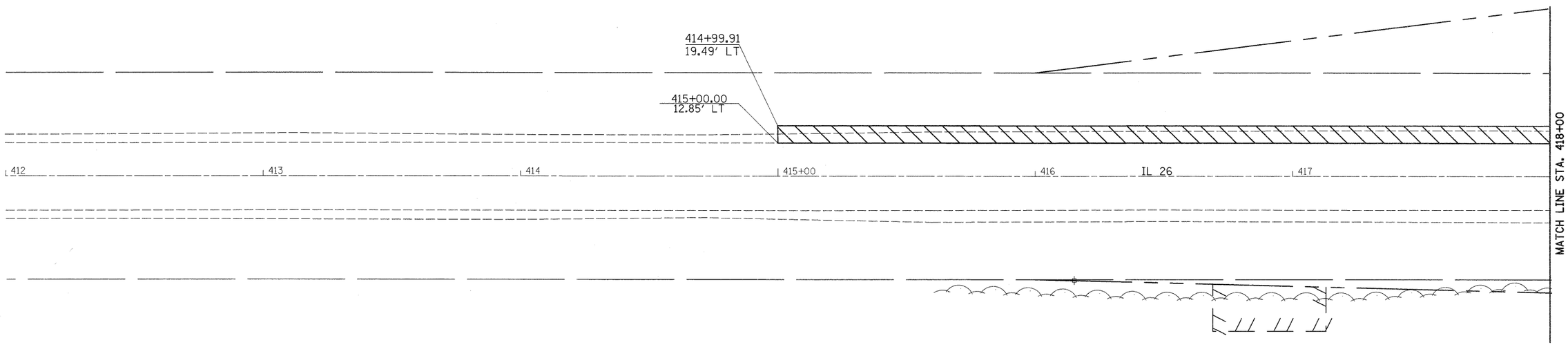
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052-2031 STAGE 2

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	50
		CONTRACT NO. 64D57		
		ILLINOIS	FED. AID PROJECT	

PRE–STAGE 1A



PRE–STAGE 1A NOTES

1. USE STANDARD 701326 FOR SHOULDER WORK.
2. PLACE SHOULDERS FROM STA. 417+96.87 LT TO STA. 420+33.55 LT.

• 102BR-5, 102BR-6 & 102BR-7

FILE NAME = c:\pw_work\pwidot\grantpm\dms41810\D2108807-sht-staging.dgn	USER NAME = grantpm	DESIGNED -	REVISED -
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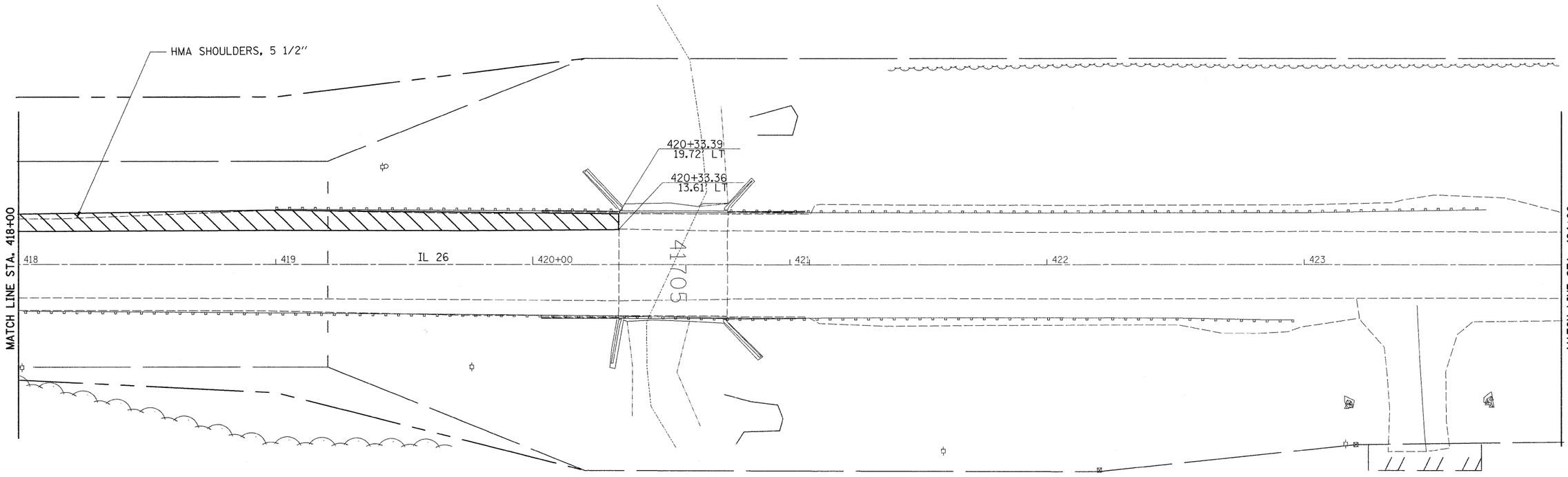
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052–2080 PRE–STAGE 1

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	51
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

PRE–STAGE 1A



PRE–STAGE 1A NOTES

1. USE STANDARD 701326 FOR SHOULDER WORK.
2. PLACE SHOULDERS FROM STA. 417+96.87 LT TO STA. 420+33.55 LT.

• 102BR-5, 102BR-6 & 102BR-7

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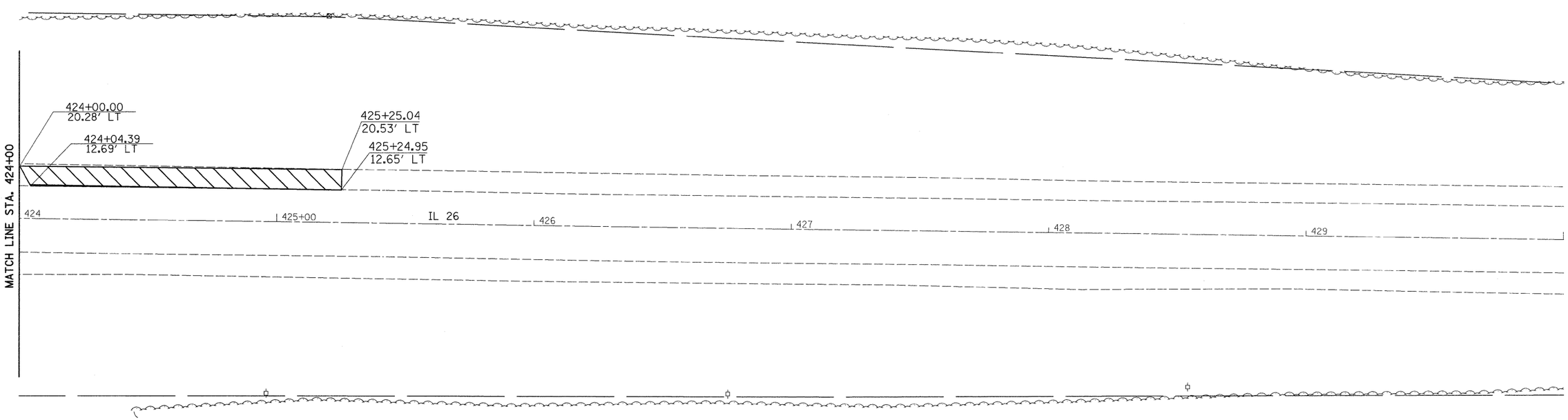
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052–2080 PRE–STAGE 1

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	52
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

PRE–STAGE 1A



PRE–STAGE 1A NOTES

1. USE STANDARD 701326 FOR SHOULDER WORK.
2. PLACE SHOULDERS FROM STA. 417+96.87 LT TO STA. 420+33.55 LT.

• 102BR-5, 102BR-6 & 102BR-7

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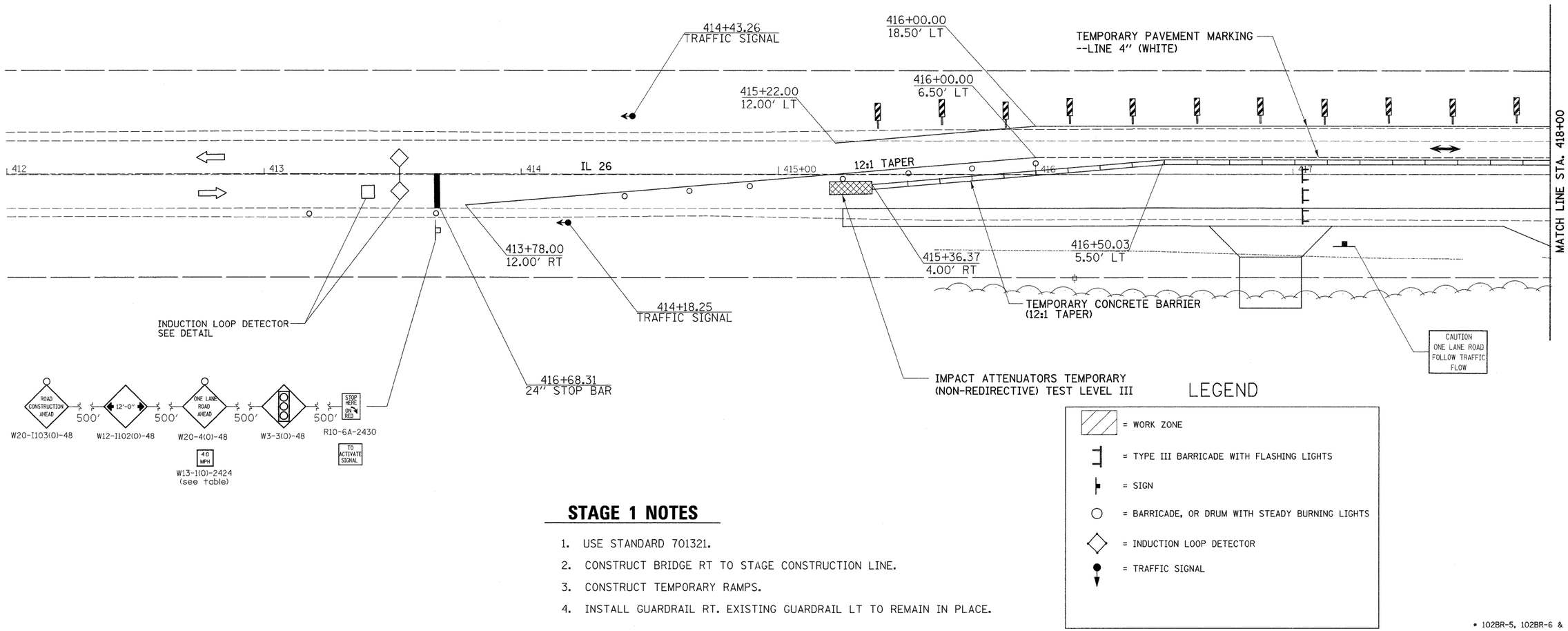
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052–2080 PRE–STAGE 1

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	53
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

STAGE 1



STAGE 1 NOTES

1. USE STANDARD 701321.
2. CONSTRUCT BRIDGE RT TO STAGE CONSTRUCTION LINE.
3. CONSTRUCT TEMPORARY RAMPS.
4. INSTALL GUARDRAIL RT. EXISTING GUARDRAIL LT TO REMAIN IN PLACE.

LEGEND

- = WORK ZONE
- = TYPE III BARRICADE WITH FLASHING LIGHTS
- = SIGN
- = BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
- = INDUCTION LOOP DETECTOR
- = TRAFFIC SIGNAL

• 102BR-5, 102BR-6 & 102BR-7

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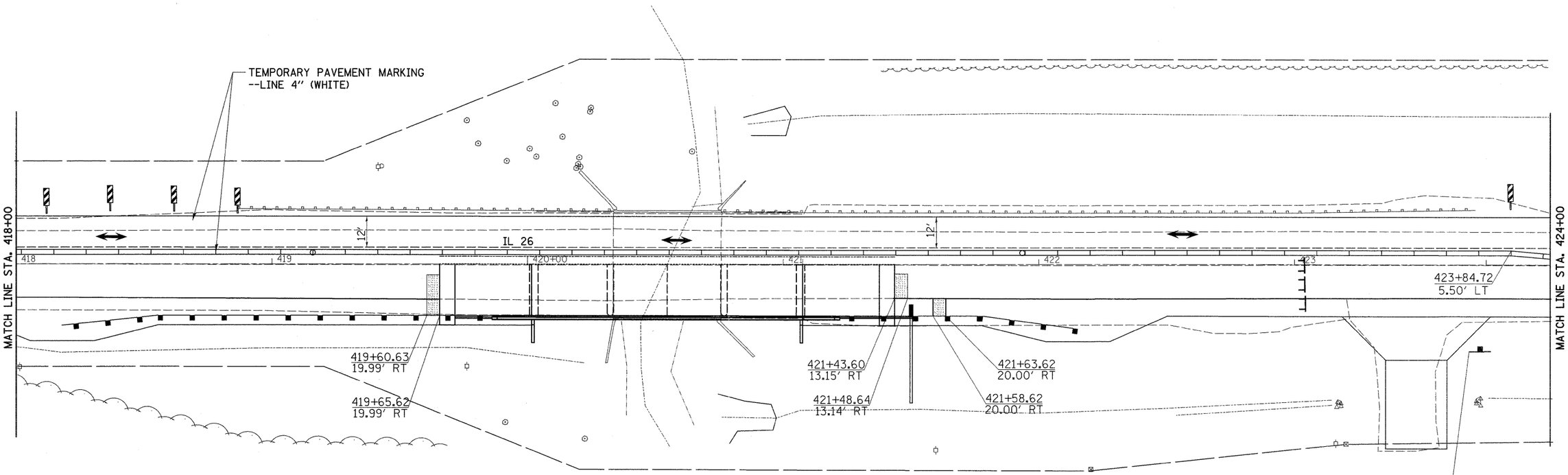
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052-0080 STAGE 1

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	54
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

STAGE 1



LEGEND

- = WORK ZONE
- = TYPE III BARRICADE WITH FLASHING LIGHTS
- = SIGN
- = BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
- = INDUCTION LOOP DETECTOR
- = TRAFFIC SIGNAL
- =TEMPORARY RAMP
  RT STA 419+60.63 - 419+65.63
  RT STA 421+43.63 - 421+48.63

STAGE 1 NOTES

1. USE STANDARD 701321.
2. CONSTRUCT BRIDGE RT TO STAGE CONSTRUCTION LINE.
3. CONSTRUCT TEMPORARY RAMPS.
4. INSTALL GUARDRAIL RT. EXISTING GUARDRAIL LT TO REMAIN IN PLACE.

• 102BR-5, 102BR-6 & 102BR-7

FILE NAME = c:\pw_work\pwidot\grantpm\dms41810\D2108807-sht-staging.dgn	USER NAME = grantpm	DESIGNED -	REVISED -
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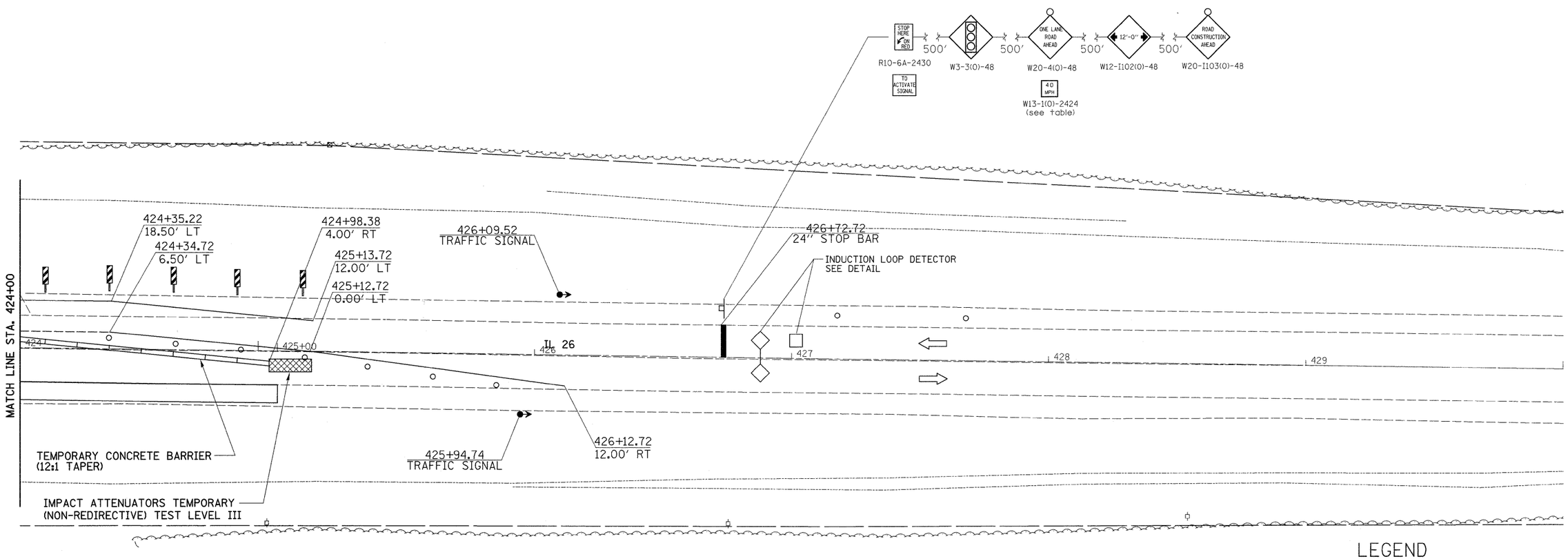
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052-0080 STAGE 1

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	55
		CONTRACT NO. 64D57		
	ILLINOIS	FED. AID PROJECT		

STAGE 1



STAGE 1 NOTES

1. USE STANDARD 701321.
2. CONSTRUCT BRIDGE RT TO STAGE CONSTRUCTION LINE.
3. CONSTRUCT TEMPORARY RAMPS.
4. INSTALL GUARDRAIL RT. EXISTING GUARDRAIL LT TO REMAIN IN PLACE.

LEGEND

- = WORK ZONE
- = TYPE III BARRICADE WITH FLASHING LIGHTS
- = SIGN
- = BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
- = INDUCTION LOOP DETECTOR
- = TRAFFIC SIGNAL

• 102BR-5, 102BR-6 & 102BR-7

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	PLOT DATE = Tue Aug 23 06:22:31 2011	DATE -	REVISED -

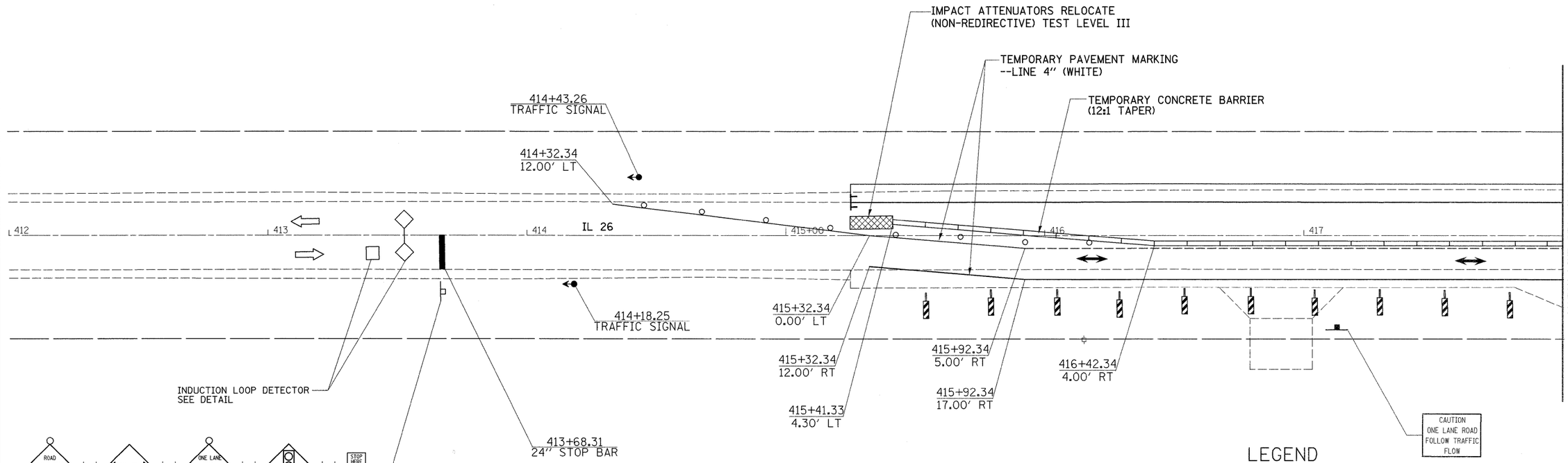
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052-0080 STAGE 1

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	56
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

STAGE 2



LEGEND

- = WORK ZONE
- = TYPE III BARRICADE WITH FLASHING LIGHTS
- = SIGN
- = BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
- = INDUCTION LOOP DETECTOR
- = TRAFFIC SIGNAL

STAGE 2 NOTES

1. USE STANDARD 701321.
2. CONSTRUCT BRIDGE LT TO STAGE CONSTRUCTION LINE.
3. CONSTRUCT TEMPORARY RAMPS.
4. INSTALL GUARDRAIL LT.

* 102BR-5, 102BR-6 & 102BR-7

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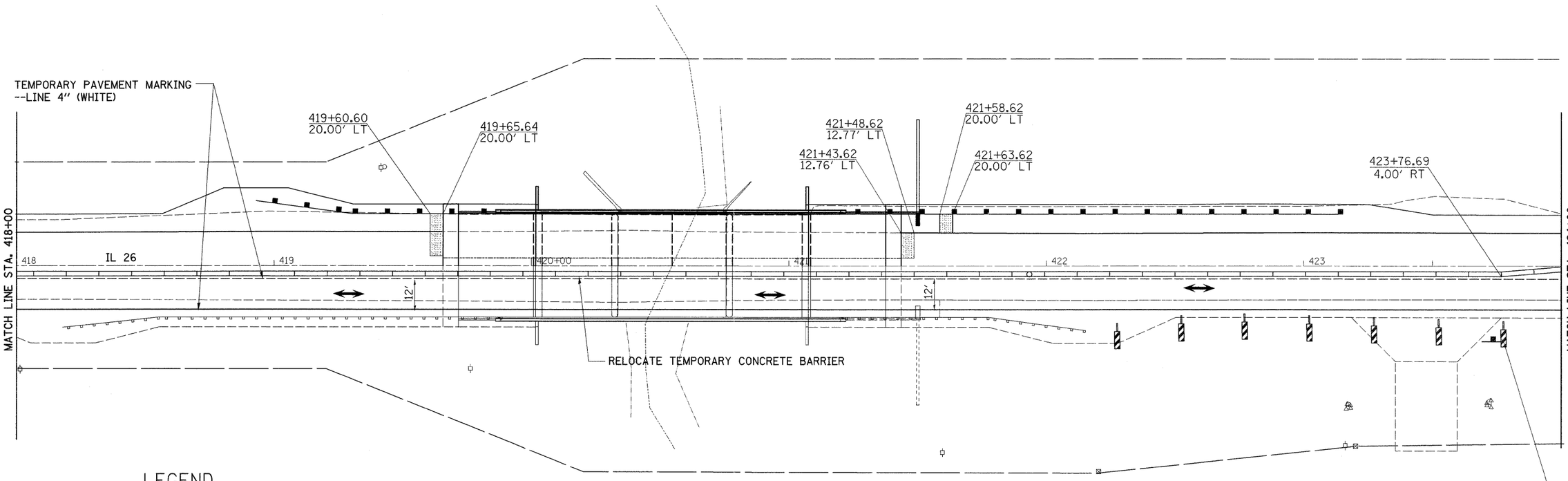
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052-0080 STAGE 2

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	57
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			

STAGE 2



LEGEND

- = WORK ZONE
- = TYPE III BARRICADE WITH FLASHING LIGHTS
- = SIGN
- = BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
- = INDUCTION LOOP DETECTOR
- = TRAFFIC SIGNAL
- =TEMPORARY RAMP
  LT STA 419+60.63 - 419+65.63
  LT STA 421+43.63 - 421+48.63
  LT STA 421+58.62 - 421+63.62

STAGE 2 NOTES

1. USE STANDARD 701321.
2. CONSTRUCT BRIDGE LT TO STAGE CONSTRUCTION LINE.
3. CONSTRUCT TEMPORARY RAMPS.
4. INSTALL GUARDRAIL LT.

• 102BR-5, 102BR-6 & 102BR-7

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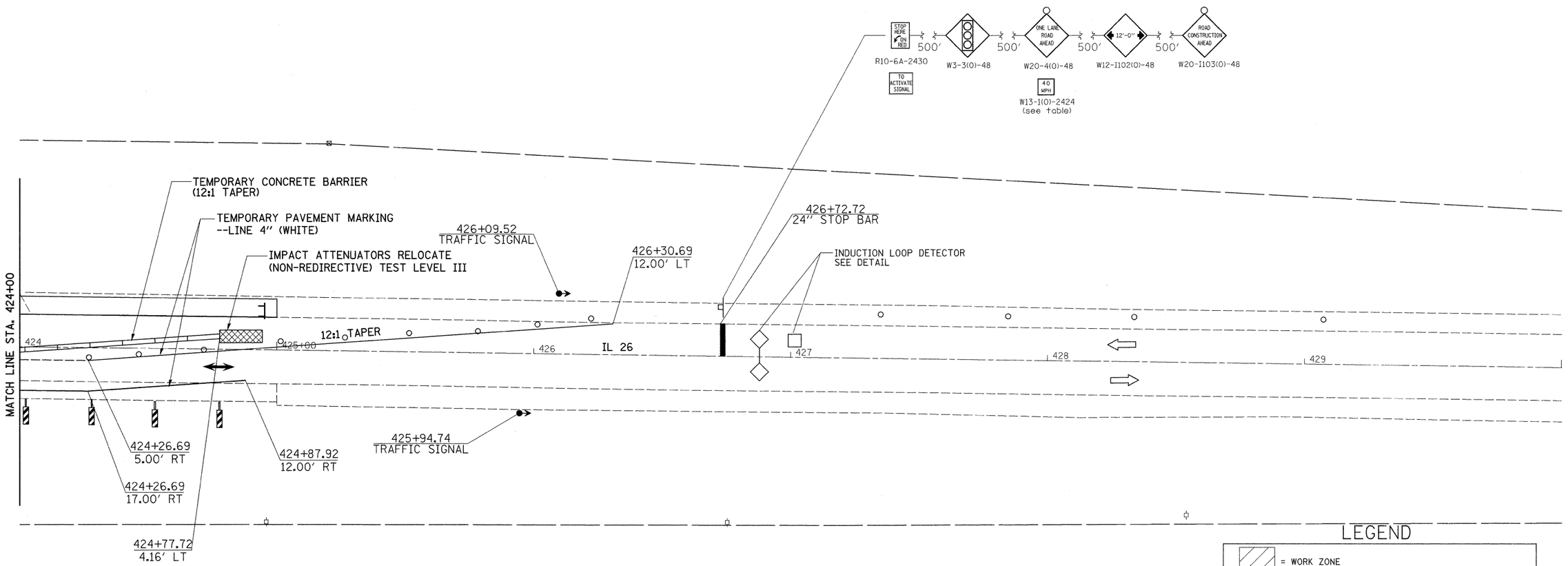
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052-0080 STAGE 2

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	58
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

STAGE 2



LEGEND

- = WORK ZONE
- = TYPE III BARRICADE WITH FLASHING LIGHTS
- = SIGN
- = BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
- = INDUCTION LOOP DETECTOR
- = TRAFFIC SIGNAL

STAGE 2 NOTES

1. USE STANDARD 701321.
2. CONSTRUCT BRIDGE LT TO STAGE CONSTRUCTION LINE.
3. CONSTRUCT TEMPORARY RAMPS.
4. INSTALL GUARDRAIL LT.

• 102BR-5, 102BR-6 & 102BR-7

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 26 STAGING DETAILS
S.N. 052-0080 STAGE 2

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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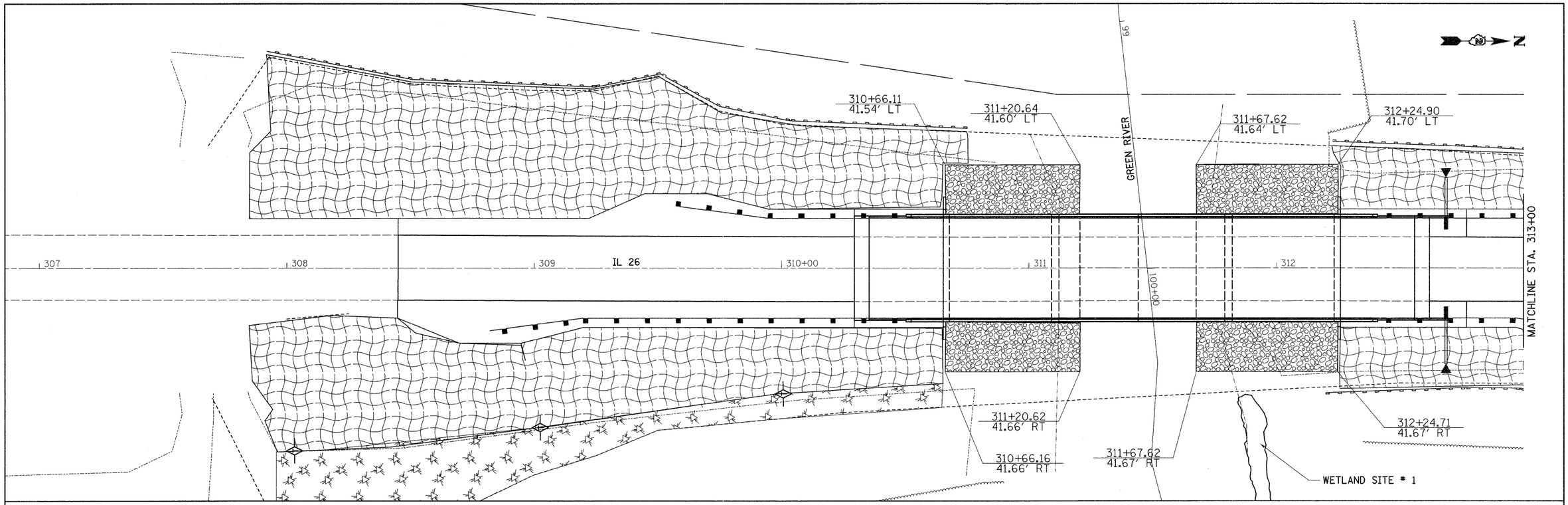
		CONTRACT NO. 64D57		
		ILLINOIS	FED. AID PROJECT	



• 102BR-5, 102BR-6, & 102BR-7

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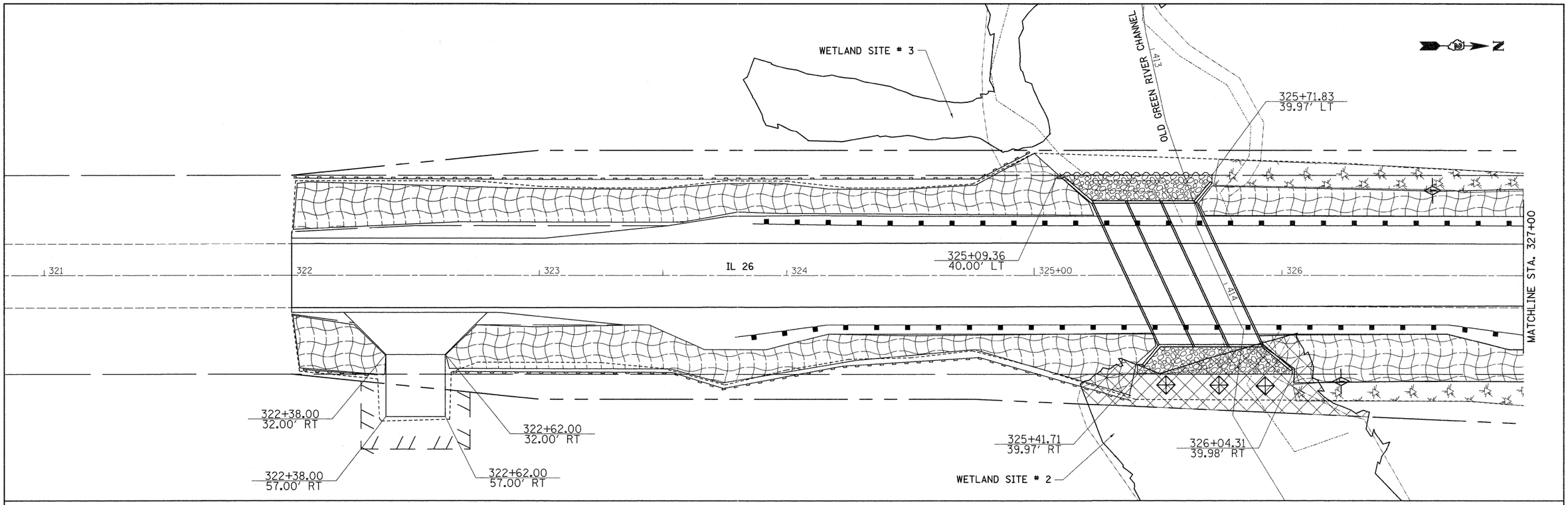
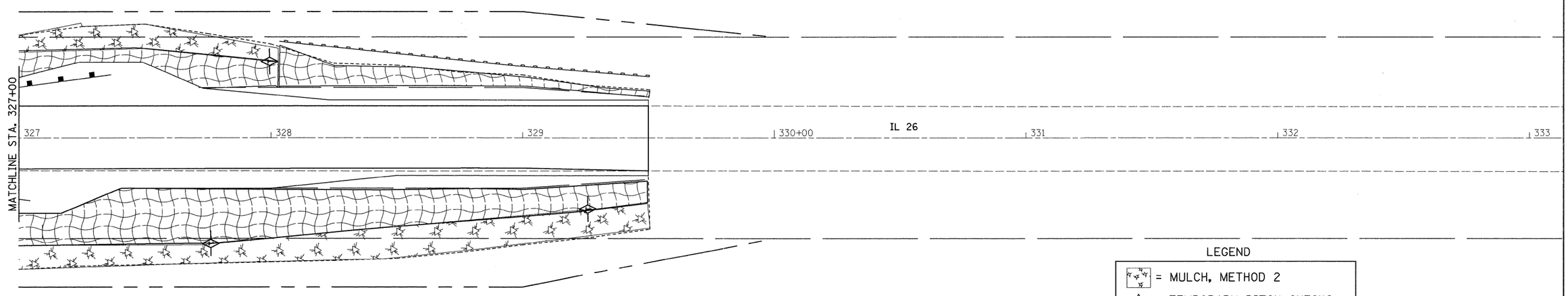
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL AND SEEDING SHEETS
WETLAND SHEETS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	60
		CONTRACT NO. 64D57		
	ILLINOIS	FED. AID PROJECT		





LEGEND

- = MULCH, METHOD 2
- = TEMPORARY DITCH CHECKS
- = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- = INLET AND PIPE PROTECTION
- = RIP RAP, CLASS A4

• 102BR-5, 102BR-6, & 102BR-7

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL AND SEEDING SHEETS
WETLAND SHEETS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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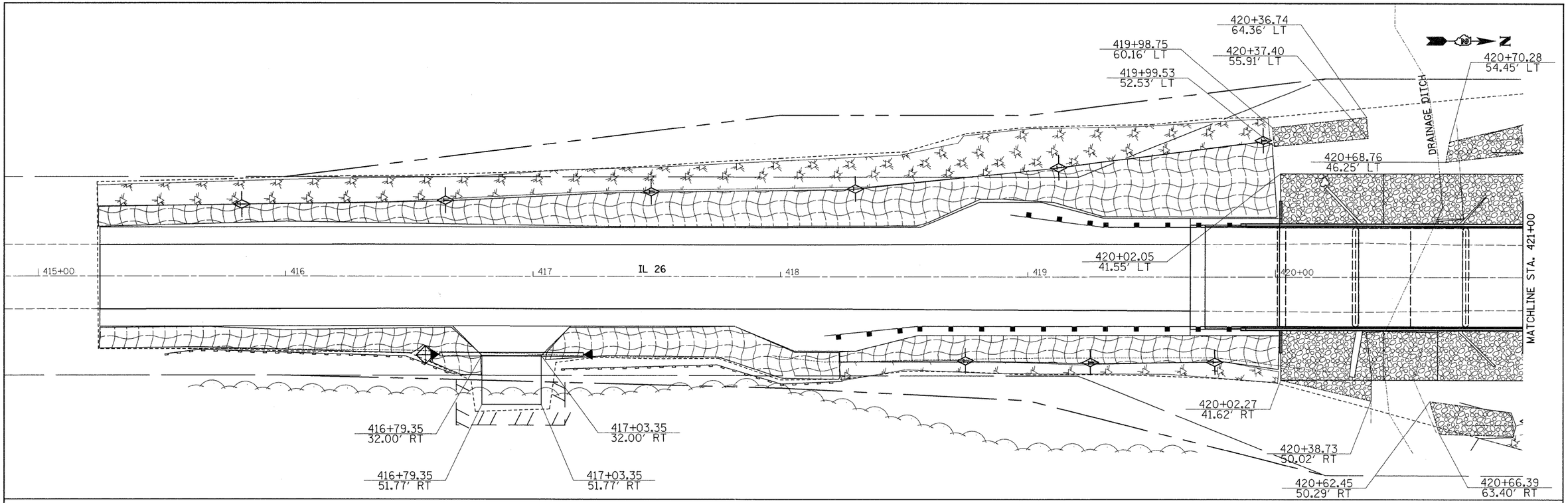
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL AND SEEDING SHEETS
WETLAND SHEETS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	62
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			

Bench Mark: Survey Pt. #403 on West Parapet in north span, 17' Lt. Sta. 312+08.83, Elev.700.35

Existing Structure: S.N. 052-0026, originally built in 1927 as a through truss superstructure with closed concrete abutments, and reconstructed in 1981 as Section 102BR-1, F.A. Route 38-Illinois 26, to its present three simple span PPC Deck Beam superstructure with the addition of solid wall encased concrete pile bent piers. A reinforced concrete overlay was constructed as a wearing surface in 1996. Auxiliary steel wide-flange support beams (24" depth) were installed beneath damaged deck beams in end spans in 2007 and (36" depth) in 2010. Span lengths are 29'-9¼" (17" Depth Bms), 60'-0" (27" Depth Bms), 29'-9¼" (17" Depth Beams); 124'-2" Bk.-Bk. Abutments and 35'-2" Out to Out Deck. Skew 0°. Structure to be removed and replaced. Traffic to be maintained utilizing stage constuction.

Supplemental steel W-beams, framing angles, and support seats are to be salvaged and delivered to a location designated by the District.

DESIGN SCOUR ELEVATION TABLE

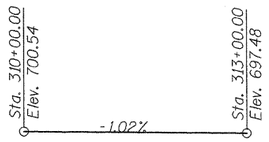
Design Scour Elevation (ft.)	S. Abut.	Pier 1	Pier 2	N. Abut.
	692.7	670.3	670.3	691.1

LOADING HL-93

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

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications



PROFILE GRADE

(Along ℄ Roadway)

INDEX OF SHEETS

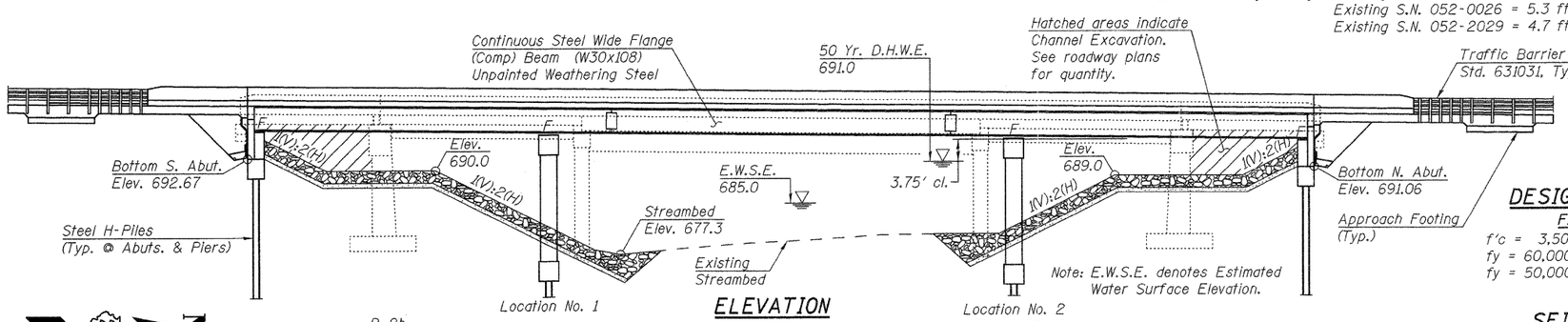
WATERWAY INFORMATION

Drainage Area = 229.8 Sq. Mi. — Existing Low Grade Elev. 694.02 @ Sta. 328+50 — Proposed Low Grade Elev. 694.03 @ Sta. 329+00

Flood	Frequency Year		Discharge cfs Exist.	Discharge cfs Prop.	Waterway Opening - ft² Exist.	Waterway Opening - ft² Prop.	Nat. H.W.E.	Head - ft. Exist.	Head - ft. Prop.	Headwater Elev. - ft. Exist.	Headwater Elev. - ft. Prop.
-	10-Year	052-2001	197	184	122	122					
		052-0081	4274	3571	780	872					
		052-2031	569	1285	120	248					
		TOTAL	5040	5040	1022	1242	690.0	0.2	0.2	690.2	690.2
Design	50-Year	052-2001	506	482	149	149					
		052-0081	5677	4891	880	1014					
		052-2031	757	1567	140	284					
		TOTAL	6940	6940	1169	1447	691.0	0.4	0.3	691.4	691.3
Base	100-Year	052-2001	591	571	154	154					
		052-0081	6189	5457	900	1042					
		052-2031	870	1622	144	288					
		TOTAL	7650	7650	1198	1484	691.2	0.5	0.4	691.7	691.6
Overtopping		Not Applicable									
Max. Calc	500-Year	052-2001	775	747	163	163					
		052-0081	7378	6577	930	1085					
		052-2031	1007	1836	150	288					
		TOTAL	9160	9160	1243	1536	691.5	0.7	0.7	692.2	692.2

10 Year velocity through Exisitng S.N. 052-2001 = 1.1 ft/s
Existing S.N. 052-0026 = 5.3 ft/s
Existing S.N. 052-2029 = 4.7 ft/s

10 Year velocity through Existing S.N. 052-2001 = 1.1 ft/s
Prop. Bridge S.N. 052-0081 @ S.N. 052-0026 = 4.4 ft/s
Prop. Bridge S.N. 052-2031 @ S.N. 052-2029 = 5.3 ft/s

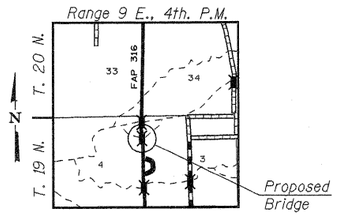


ELEVATION

DESIGN STRESSES

FIELD UNITS

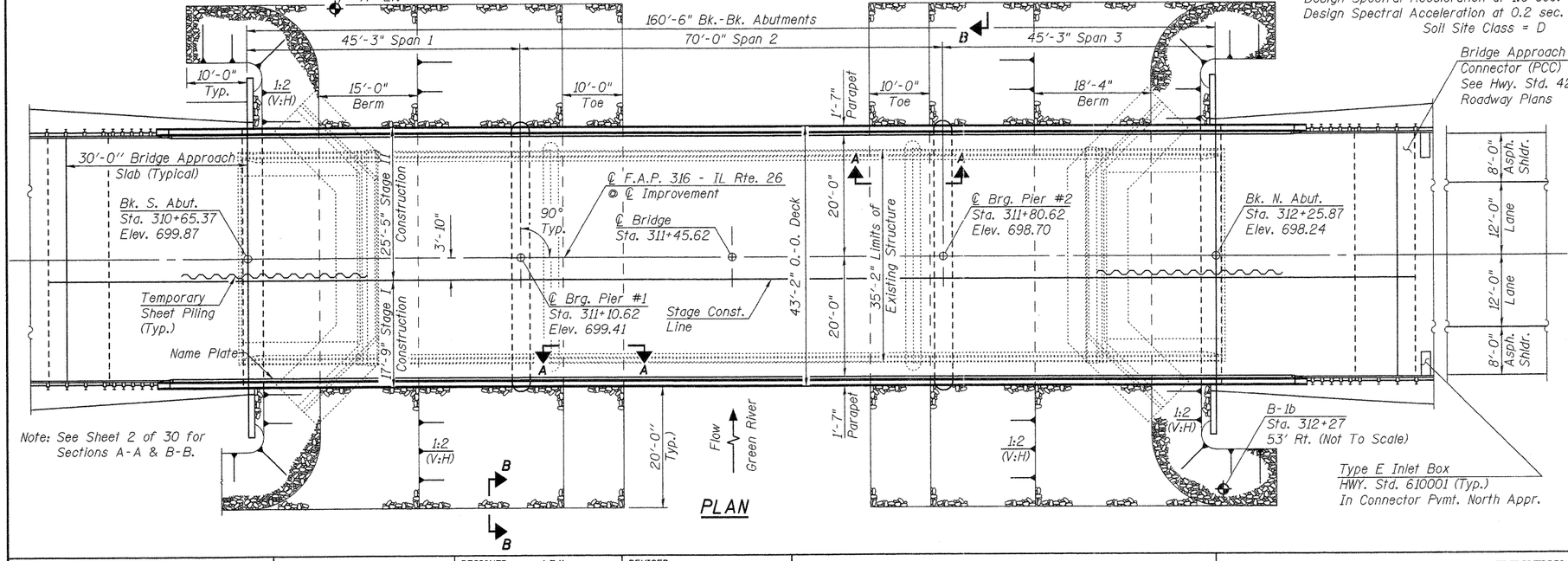
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50W)



LOCATION SKETCH

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.090g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.150g
Soil Site Class = D



Note: See Sheet 2 of 30 for Sections A-A & B-B.

PLAN

JOHN A. MORRIS NO. 81-4277 LICENSED STRUCTURAL ENGINEER STATE OF ILLINOIS

John A. Morris — 8-17-11
John A. Morris — Date
Licensed Structural Engineer
State of Illinois No. 81-4277
Expires 11-30-2012

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
ENGINEER OF BRIDGES AND STRUCTURES

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 26 OVER GREEN RIVER
F.A.P. RTE 316 - SEC. 102BR-6
LEE COUNTY
STATION 311+45.62
STRUCTURE NO. 052-0081

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS

FILE NAME = 052081-64D57.DGN	DESIGNED - A.R.K.	REVISED -
USER NAME = S.A.P.	CHECKED - J.A.M.	REVISED -
PLOT SCALE =	DRAWN - S.A.P.	REVISED -
PLOT DATE = 08/10/11	CHECKED - A.R.K. & J.A.M.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 052-0081
SHEET NO. 1 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-6	LEE	216	63
		CONTRACT NO. 64D57		
	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts in painted areas and M164 Type 3 in unpainted areas. Bolts $^{7}/_{8}$ in. ϕ, holes $^{15}/_{16}$ in. ϕ, unless otherwise noted.

Calculated weight of Structural Steel = 138,140 Pounds

All structural steel shall be AASHTO M 270 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.

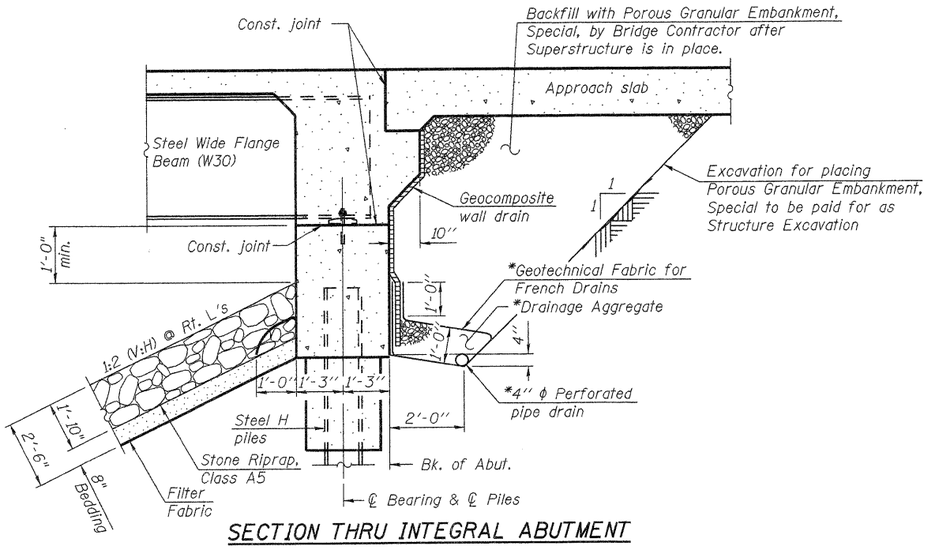
Reinforcement bars designated (E) shall be epoxy coated.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $^{1}/_{8}$ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

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

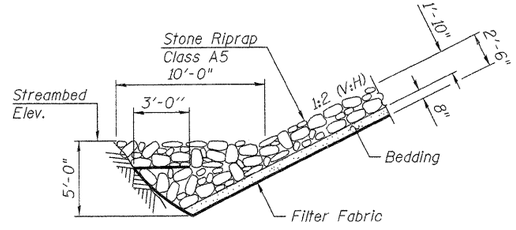
Slip forming of the parapets is not allowed.



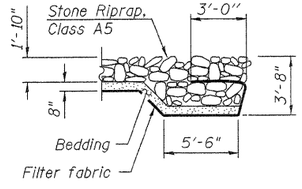
SECTION THRU INTEGRAL ABUTMENT

*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



SECTION B-B

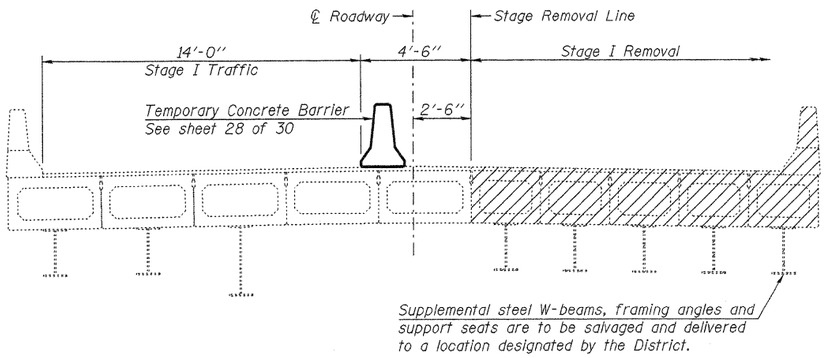
STATION 311+45.62
BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RT. 316 SEC. 102BR-6
LOADING HL-93
STR. NO. 052-0081

NAME PLATE

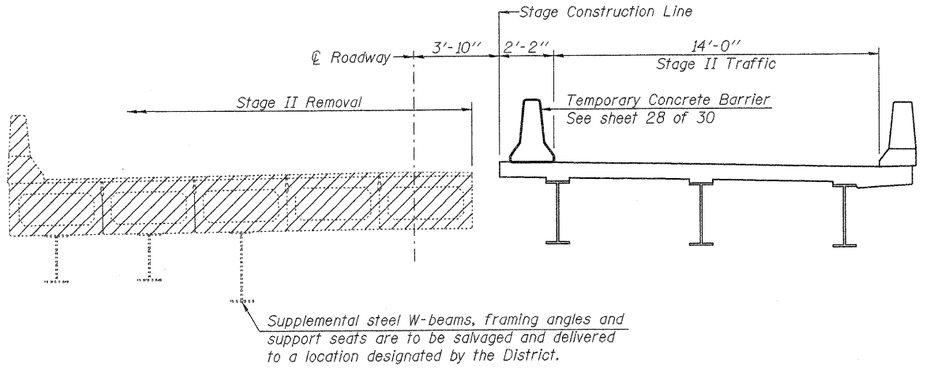
See Std. 515001

TOTAL BILL OF MATERIAL

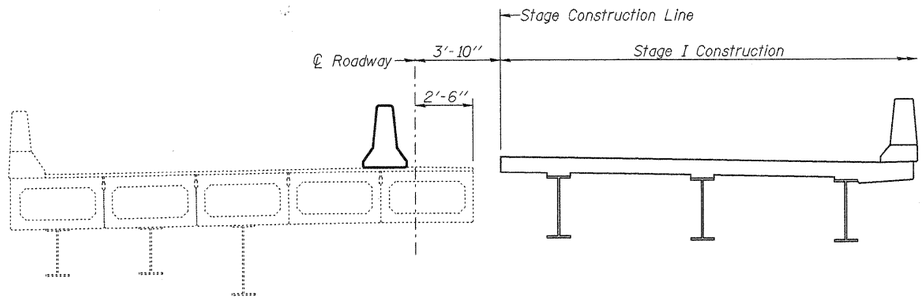
ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Structures	Cu. Yd.		178.8	178.8
Concrete Superstructure	Cu. Yd.	377.7		377.7
Bridge Deck Grooving	Sq. Yd.	934		934
Protective Coat	Sq. Yd.	1,148		1,148
Stud Shear Connectors	Each	3,801		3,801
Reinforcement Bars, Epoxy Coated	Pound	91,920	14,480	106,400
Bar Splicers	Each	821	106	927
Furnishing and Erecting Structural Steel	L. Sum	0.7		0.7
Name Plates	Each	1		1
Removal of Existing Structures No. 1	Each			1
Stone Riprap, Class A5	Sq. Yd.			1,194
Filter Fabric	Sq. Yd.			1,194
Porous Granular Embankment, Special	Cu. Yd.		102	102
Structure Excavation	Cu. Yd.		333	333
Furnishing Steel Piles HP 12x53	Foot		924	924
Furnishing Steel Piles HP 14x73	Foot		1,458	1,458
Driving Piles	Foot		2,382	2,382
Test Pile Steel HP 12x53	Each		2	2
Test Pile Steel HP 14x73	Each		2	2
Concrete Encasement	Cu. Yd.		15.8	15.8
Pipe Underdrains for Structures, 4''	Foot		150	150
Geocomposite Wall Drain	Sq. Yd.		68	68
Underwater Structure Excavation Protection, Location No. 1	Each		1	1
Underwater Structure Excavation Protection, Location No. 2	Each		1	1
Temporary Sheet Piling	Sq. Ft.		1,836	1,836
Anchor Bolts 1''	Each		56	56
Asbestos Bearing Pad Removal	Each	22		22



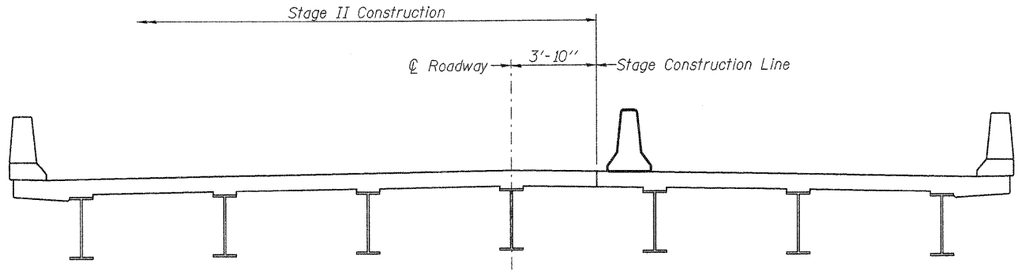
STAGE I REMOVAL & TRAFFIC



STAGE II REMOVAL AND TRAFFIC



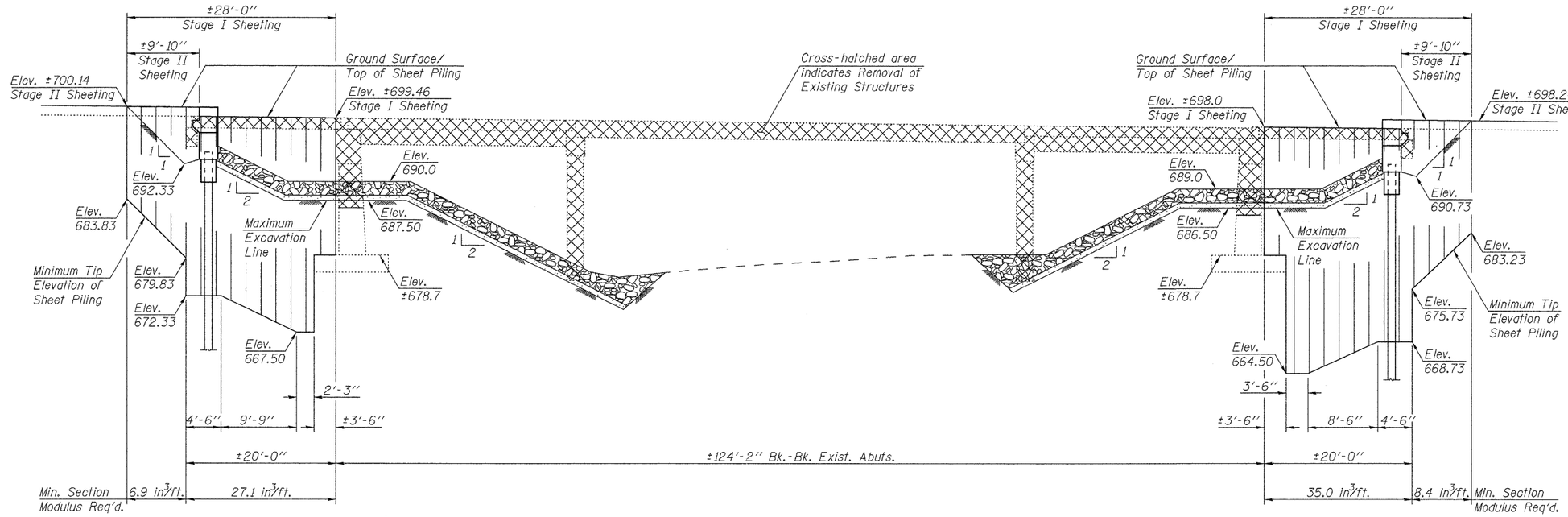
STAGE I CONSTRUCTION



STAGE II CONSTRUCTION

Notes:
All staging cross sections are looking North.
Hatched areas indicate Removal of Existing Structures.
For quantity of Temporary Concrete Barrier, see Roadway Plans.

Existing Steel Support Beams and Beam Supports located beneath the portion of the existing superstructure utilized for carrying Stage I Traffic shall remain in place until traffic has been diverted to the portion of the new structure carrying Stage II Traffic. All existing Steel Support Beams and Beam Supports shall be salvaged and remain the property of the State. The Contractor shall deliver salvaged Steel Support Beams and Beam Supports to the Illinois Department of Transportation Maintenance Yard located at 1502 US Highway 30 Amboy, Illinois. Department personnel can provide equipment necessary to assist with the unloading of the salvaged beams at the Maintenance Yard. The Contractor shall coordinate the delivery and unloading of the salvaged beams with Mr. Roy McKnight (815-857-2914). The cost of salvage and delivery of the existing Steel Support Beams and Beam Supports is included in Removal of Existing Structures.

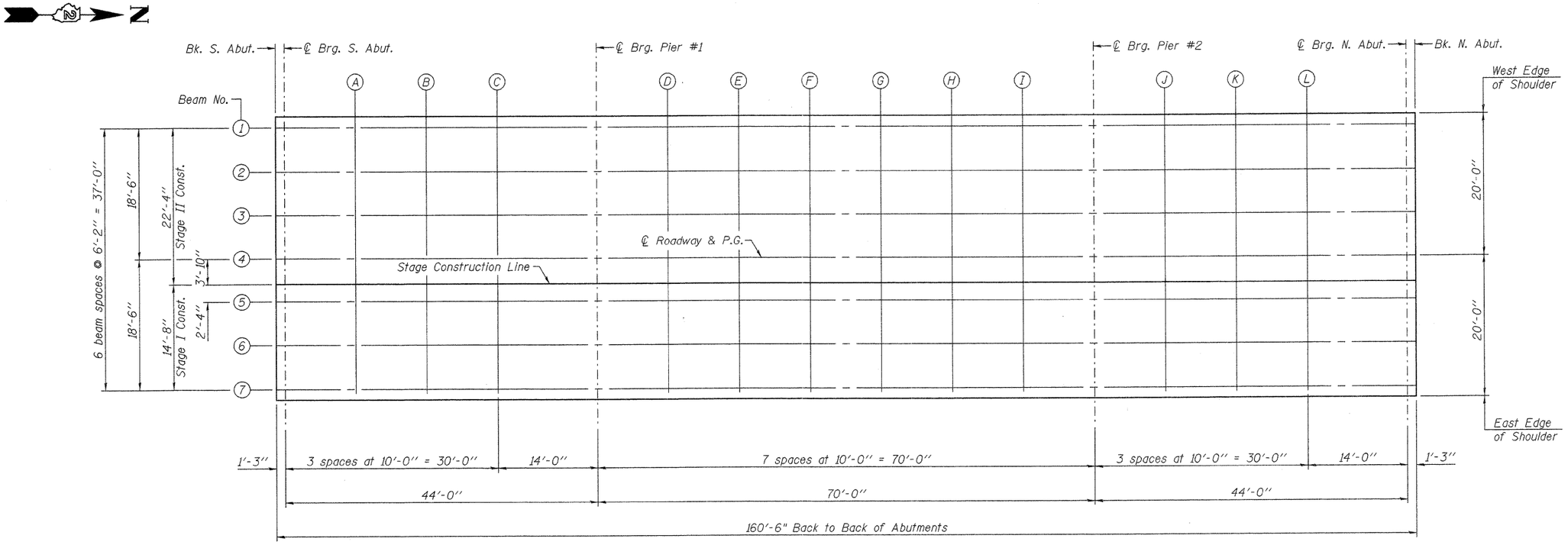


TEMPORARY SHEET PILING DETAILS

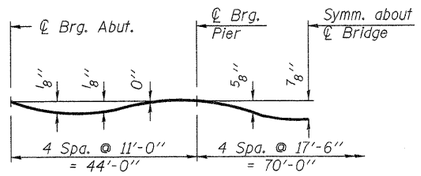
(Looking West)

The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.



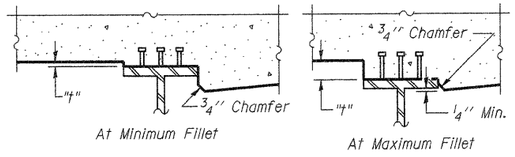
PLAN



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets 6 to 8 of 30.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheets 6 to 8 of 30, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

FEHR–GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS	FILE NAME = 052008I-64D57.DGN	DESIGNED - A.R.K.	REVISED -
	USER NAME = S.A.P.	CHECKED - J.A.M.	REVISED -
	PLOT SCALE =	DRAWN - S.A.P.	REVISED -
	PLOT DATE = 08/10/11	CHECKED - A.R.K. & J.A.M.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 052–0081
SHEET NO. 5 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-6	LEE	216	67
		CONTRACT NO. 64D57		
	ILLINOIS	FED. AID PROJECT		

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	310+65.370	-20.000	699.519	699.519
℄ BRG. S. ABUT.	310+66.620	-20.000	699.507	699.507
A	310+76.620	-20.000	699.405	699.410
B	310+86.620	-20.000	699.303	699.308
C	310+96.620	-20.000	699.201	699.200
℄ BRG. PIER #1	311+10.620	-20.000	699.058	699.058
D	311+20.620	-20.000	698.956	698.983
E	311+30.620	-20.000	698.854	698.905
F	311+40.620	-20.000	698.752	698.819
G	311+50.620	-20.000	698.650	698.717
H	311+60.620	-20.000	698.548	698.599
I	311+70.620	-20.000	698.446	698.473
℄ BRG. PIER #2	311+80.620	-20.000	698.344	698.344
J	311+90.620	-20.000	698.242	698.240
K	312+00.620	-20.000	698.140	698.143
L	312+10.620	-20.000	698.038	698.043
℄ BRG. N. ABUT.	312+24.620	-20.000	697.895	697.895
BK. N. ABUT.	312+25.870	-20.000	697.882	697.882

BEAM #1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	310+65.370	-18.500	699.551	699.551
℄ BRG. S. ABUT.	310+66.620	-18.500	699.538	699.538
A	310+76.620	-18.500	699.436	699.441
B	310+86.620	-18.500	699.334	699.339
C	310+96.620	-18.500	699.232	699.231
℄ BRG. PIER #1	311+10.620	-18.500	699.089	699.089
D	311+20.620	-18.500	698.987	699.014
E	311+30.620	-18.500	698.885	698.936
F	311+40.620	-18.500	698.783	698.850
G	311+50.620	-18.500	698.681	698.748
H	311+60.620	-18.500	698.579	698.630
I	311+70.620	-18.500	698.477	698.504
℄ BRG. PIER #2	311+80.620	-18.500	698.375	698.375
J	311+90.620	-18.500	698.273	698.271
K	312+00.620	-18.500	698.171	698.174
L	312+10.620	-18.500	698.069	698.075
℄ BRG. N. ABUT.	312+24.620	-18.500	697.926	697.926
BK. N. ABUT.	312+25.870	-18.500	697.913	697.913

BEAM #2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	310+65.370	-12.333	699.679	699.679
℄ BRG. S. ABUT.	310+66.620	-12.333	699.666	699.666
A	310+76.620	-12.333	699.564	699.570
B	310+86.620	-12.333	699.462	699.467
C	310+96.620	-12.333	699.360	699.360
℄ BRG. PIER #1	311+10.620	-12.333	699.217	699.217
D	311+20.620	-12.333	699.115	699.142
E	311+30.620	-12.333	699.013	699.064
F	311+40.620	-12.333	698.911	698.979
G	311+50.620	-12.333	698.809	698.877
H	311+60.620	-12.333	698.707	698.758
I	311+70.620	-12.333	698.605	698.632
℄ BRG. PIER #2	311+80.620	-12.333	698.503	698.503
J	311+90.620	-12.333	698.401	698.399
K	312+00.620	-12.333	698.299	698.303
L	312+10.620	-12.333	698.197	698.203
℄ BRG. N. ABUT.	312+24.620	-12.333	698.054	698.054
BK. N. ABUT.	312+25.870	-12.333	698.042	698.042

BEAM #3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	310+65.370	-6.167	699.777	699.777
℄ BRG. S. ABUT.	310+66.620	-6.167	699.764	699.764
A	310+76.620	-6.167	699.662	699.668
B	310+86.620	-6.167	699.560	699.565
C	310+96.620	-6.167	699.458	699.458
℄ BRG. PIER #1	311+10.620	-6.167	699.315	699.315
D	311+20.620	-6.167	699.213	699.240
E	311+30.620	-6.167	699.111	699.162
F	311+40.620	-6.167	699.009	699.077
G	311+50.620	-6.167	698.907	698.975
H	311+60.620	-6.167	698.805	698.856
I	311+70.620	-6.167	698.703	698.730
℄ BRG. PIER #2	311+80.620	-6.167	698.601	698.601
J	311+90.620	-6.167	698.499	698.497
K	312+00.620	-6.167	698.397	698.401
L	312+10.620	-6.167	698.295	698.301
℄ BRG. N. ABUT.	312+24.620	-6.167	698.153	698.153
BK. N. ABUT.	312+25.870	-6.167	698.140	698.140

E-S 7-1-10

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS

FILE NAME = 052008I-64057.DGN	DESIGNED - A.R.K.	REVISED -
USER NAME = S.A.P.	CHECKED - J.A.M.	REVISED -
PLOT SCALE =	DRAWN - S.A.P.	REVISED -
PLOT DATE = 08/10/11	CHECKED - A.R.K. & J.A.M.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 052-0081
SHEET NO. 6 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-6	LEE	216	68
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			

℄ ROADWAY, P.G. & BEAM #4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	310+65.370	0.000	699.873	699.873
℄ BRG. S. ABUT.	310+66.620	0.000	699.860	699.860
A	310+76.620	0.000	699.758	699.764
B	310+86.620	0.000	699.656	699.661
C	310+96.620	0.000	699.554	699.554
℄ BRG. PIER #1	311+10.620	0.000	699.412	699.412
D	311+20.620	0.000	699.310	699.336
E	311+30.620	0.000	699.208	699.259
F	311+40.620	0.000	699.106	699.173
G	311+50.620	0.000	699.004	699.071
H	311+60.620	0.000	698.902	698.953
I	311+70.620	0.000	698.800	698.826
℄ BRG. PIER #2	311+80.620	0.000	698.698	698.698
J	311+90.620	0.000	698.596	698.594
K	312+00.620	0.000	698.494	698.497
L	312+10.620	0.000	698.392	698.397
℄ BRG. N. ABUT.	312+24.620	0.000	698.249	698.249
BK. N. ABUT.	312+25.870	0.000	698.236	698.236

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	310+65.370	3.833	699.813	699.813
℄ BRG. S. ABUT.	310+66.620	3.833	699.801	699.801
A	310+76.620	3.833	699.699	699.704
B	310+86.620	3.833	699.597	699.602
C	310+96.620	3.833	699.495	699.494
℄ BRG. PIER #1	311+10.620	3.833	699.352	699.352
D	311+20.620	3.833	699.250	699.277
E	311+30.620	3.833	699.148	699.199
F	311+40.620	3.833	699.046	699.113
G	311+50.620	3.833	698.944	699.011
H	311+60.620	3.833	698.842	698.893
I	311+70.620	3.833	698.740	698.767
℄ BRG. PIER #2	311+80.620	3.833	698.638	698.638
J	311+90.620	3.833	698.536	698.534
K	312+00.620	3.833	698.434	698.437
L	312+10.620	3.833	698.332	698.337
℄ BRG. N. ABUT.	312+24.620	3.833	698.189	698.189
BK. N. ABUT.	312+25.870	3.833	698.176	698.176

BEAM #5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	310+65.370	6.167	699.777	699.777
℄ BRG. S. ABUT.	310+66.620	6.167	699.764	699.764
A	310+76.620	6.167	699.662	699.668
B	310+86.620	6.167	699.560	699.565
C	310+96.620	6.167	699.458	699.458
℄ BRG. PIER #1	311+10.620	6.167	699.315	699.315
D	311+20.620	6.167	699.213	699.240
E	311+30.620	6.167	699.111	699.162
F	311+40.620	6.167	699.009	699.077
G	311+50.620	6.167	698.907	698.975
H	311+60.620	6.167	698.805	698.856
I	311+70.620	6.167	698.703	698.730
℄ BRG. PIER #2	311+80.620	6.167	698.601	698.601
J	311+90.620	6.167	698.499	698.497
K	312+00.620	6.167	698.397	698.401
L	312+10.620	6.167	698.295	698.301
℄ BRG. N. ABUT.	312+24.620	6.167	698.153	698.153
BK. N. ABUT.	312+25.870	6.167	698.140	698.140

BEAM #6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	310+65.370	12.333	699.679	699.679
℄ BRG. S. ABUT.	310+66.620	12.333	699.666	699.666
A	310+76.620	12.333	699.564	699.570
B	310+86.620	12.333	699.462	699.467
C	310+96.620	12.333	699.360	699.360
℄ BRG. PIER #1	311+10.620	12.333	699.217	699.217
D	311+20.620	12.333	699.115	699.142
E	311+30.620	12.333	699.013	699.064
F	311+40.620	12.333	698.911	698.979
G	311+50.620	12.333	698.809	698.877
H	311+60.620	12.333	698.707	698.758
I	311+70.620	12.333	698.605	698.632
℄ BRG. PIER #2	311+80.620	12.333	698.503	698.503
J	311+90.620	12.333	698.401	698.399
K	312+00.620	12.333	698.299	698.303
L	312+10.620	12.333	698.197	698.203
℄ BRG. N. ABUT.	312+24.620	12.333	698.054	698.054
BK. N. ABUT.	312+25.870	12.333	698.042	698.042

E-S 7-1-10

BEAM #7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	310+65.370	18.500	699.551	699.551
℄ BRG. S. ABUT.	310+66.620	18.500	699.538	699.538
A	310+76.620	18.500	699.436	699.441
B	310+86.620	18.500	699.334	699.339
C	310+96.620	18.500	699.232	699.231
℄ BRG. PIER #1	311+10.620	18.500	699.089	699.089
D	311+20.620	18.500	698.987	699.014
E	311+30.620	18.500	698.885	698.936
F	311+40.620	18.500	698.783	698.850
G	311+50.620	18.500	698.681	698.748
H	311+60.620	18.500	698.579	698.630
I	311+70.620	18.500	698.477	698.504
℄ BRG. PIER #2	311+80.620	18.500	698.375	698.375
J	311+90.620	18.500	698.273	698.271
K	312+00.620	18.500	698.171	698.174
L	312+10.620	18.500	698.069	698.075
℄ BRG. N. ABUT.	312+24.620	18.500	697.926	697.926
BK. N. ABUT.	312+25.870	18.500	697.913	697.913

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	310+65.370	20.000	699.519	699.519
℄ BRG. S. ABUT.	310+66.620	20.000	699.507	699.507
A	310+76.620	20.000	699.405	699.410
B	310+86.620	20.000	699.303	699.307
C	310+96.620	20.000	699.201	699.200
℄ BRG. PIER #1	311+10.620	20.000	699.058	699.058
D	311+20.620	20.000	698.956	698.983
E	311+30.620	20.000	698.854	698.905
F	311+40.620	20.000	698.752	698.819
G	311+50.620	20.000	698.650	698.717
H	311+60.620	20.000	698.548	698.599
I	311+70.620	20.000	698.446	698.473
℄ BRG. PIER #2	311+80.620	20.000	698.344	698.344
J	311+90.620	20.000	698.242	698.240
K	312+00.620	20.000	698.140	698.143
L	312+10.620	20.000	698.038	698.043
℄ BRG. N. ABUT.	312+24.620	20.000	697.895	697.895
BK. N. ABUT.	312+25.870	20.000	697.882	697.882

FEHR–GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS

FILE NAME = 052008I-64D57.DGN	DESIGNED - A.R.K.	REVISED -
USER NAME = S.A.P.	CHECKED - J.A.M.	REVISED -
PLOT SCALE =	DRAWN - S.A.P.	REVISED -
PLOT DATE = 08/10/11	CHECKED - A.R.K. & J.A.M.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 052–0081
SHEET NO. 8 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-6	LEE	216	70
		CONTRACT NO. 64D57		
	ILLINOIS	FED. AID PROJECT		

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
End of Appr. Slab	310+35.37	-20.000	699.825
A1	310+45.37	-20.000	699.723
A2	310+55.37	-20.000	699.621
Bk. of S. Abut.	310+65.37	-20.000	699.519

WEST EDGE OF PAVEMENT

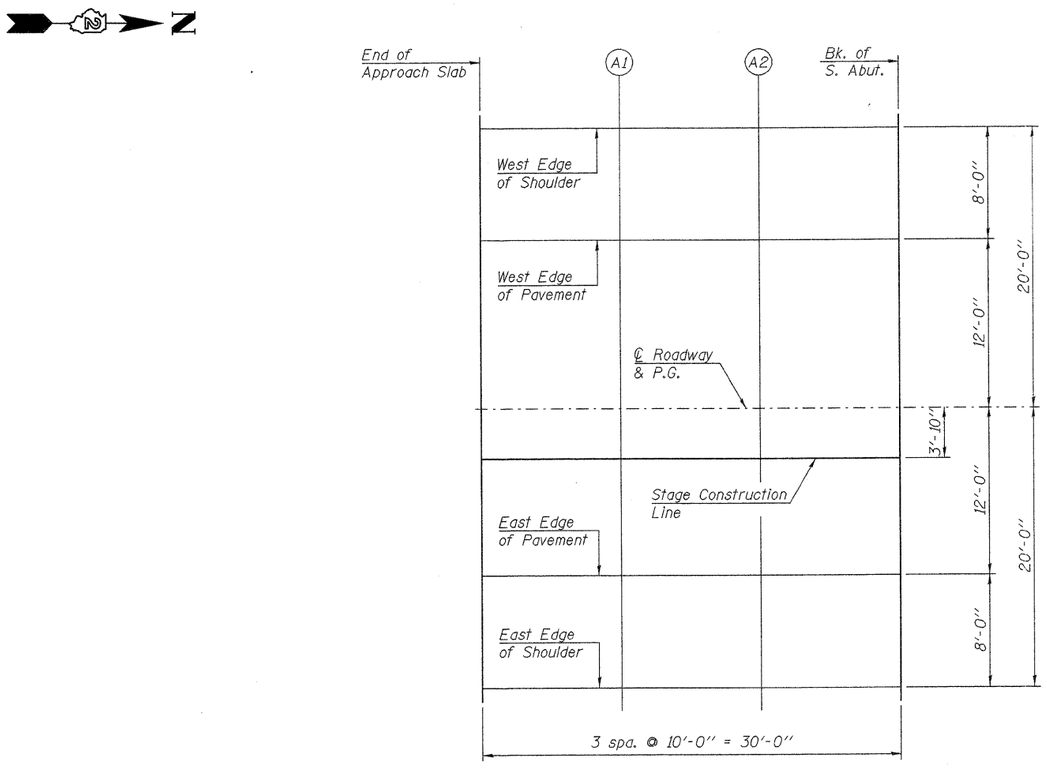
Location	Station	Offset	Theoretical Grade Elevations
End of Appr. Slab	310+35.37	-12.000	699.992
A1	310+45.37	-12.000	699.890
A2	310+55.37	-12.000	699.788
Bk. of S. Abut.	310+65.37	-12.000	699.686

℄ ROADWAY & P.G.

Location	Station	Offset	Theoretical Grade Elevations
End of Appr. Slab	310+35.37	0.000	700.179
A1	310+45.37	0.000	700.077
A2	310+55.37	0.000	699.975
Bk. of S. Abut.	310+65.37	0.000	699.873

STAGE CONSTRUCION LINE

Location	Station	Offset	Theoretical Grade Elevations
End of Appr. Slab	310+35.37	3.833	700.119
A1	310+45.37	3.833	700.017
A2	310+55.37	3.833	699.915
Bk. of S. Abut.	310+65.37	3.833	699.813



PLAN

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End of Appr. Slab	310+35.37	12.000	699.992
A1	310+45.37	12.000	699.890
A2	310+55.37	12.000	699.788
Bk. of S. Abut.	310+65.37	12.000	699.686

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
End of Appr. Slab	310+35.37	20.000	699.825
A1	310+45.37	20.000	699.723
A2	310+55.37	20.000	699.621
Bk. of S. Abut.	310+65.37	20.000	699.519

E-AS 7-1-10

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS

FILE NAME = 052008I-64D57.DGN	DESIGNED - A.R.K.	REVISED -
USER NAME = S.A.P.	CHECKED - J.A.M.	REVISED -
PLOT SCALE =	DRAWN - S.A.P.	REVISED -
PLOT DATE = 08/10/11	CHECKED - A.R.K. & J.A.M.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SOUTH APPROACH SLAB ELEVATION
STRUCTURE NO. 052-0081
SHEET NO. 9 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-6	LEE	216	71
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Bk. of N. Abut.	312+25.87	-20.000	697.882
A3	312+35.87	-20.000	697.780
A4	312+45.87	-20.000	697.678
End of Appr. Slab	312+55.87	-20.000	697.576

WEST EDGE OF PAVEMENT

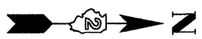
Location	Station	Offset	Theoretical Grade Elevations
Bk. of N. Abut.	312+25.87	-12.000	698.049
A3	312+35.87	-12.000	697.947
A4	312+45.87	-12.000	697.845
End of Appr. Slab	312+55.87	-12.000	697.743

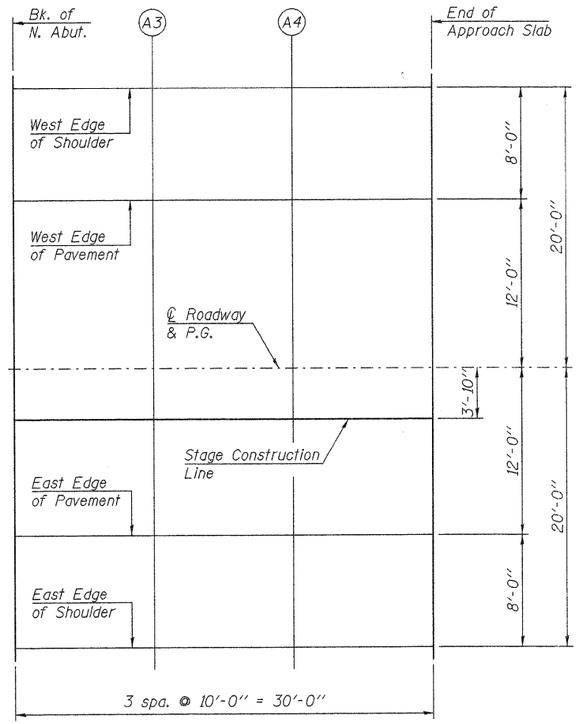
℄ ROADWAY & P.G.

Location	Station	Offset	Theoretical Grade Elevations
Bk. of N. Abut.	312+25.87	0.000	698.236
A3	312+35.87	0.000	698.134
A4	312+45.87	0.000	698.032
End of Appr. Slab	312+55.87	0.000	697.930

STAGE CONSTRUCION LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. of N. Abut.	312+25.87	3.833	698.176
A3	312+35.87	3.833	698.074
A4	312+45.87	3.833	697.972
End of Appr. Slab	312+55.87	3.833	697.870





PLAN

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. of N. Abut.	312+25.87	12.000	698.049
A3	312+35.87	12.000	697.947
A4	312+45.87	12.000	697.845
End of Appr. Slab	312+55.87	12.000	697.743

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Bk. of N. Abut.	312+25.87	20.000	697.882
A3	312+35.87	20.000	697.780
A4	312+45.87	20.000	697.678
End of Appr. Slab	312+55.87	20.000	697.576

E-AS 7-1-10

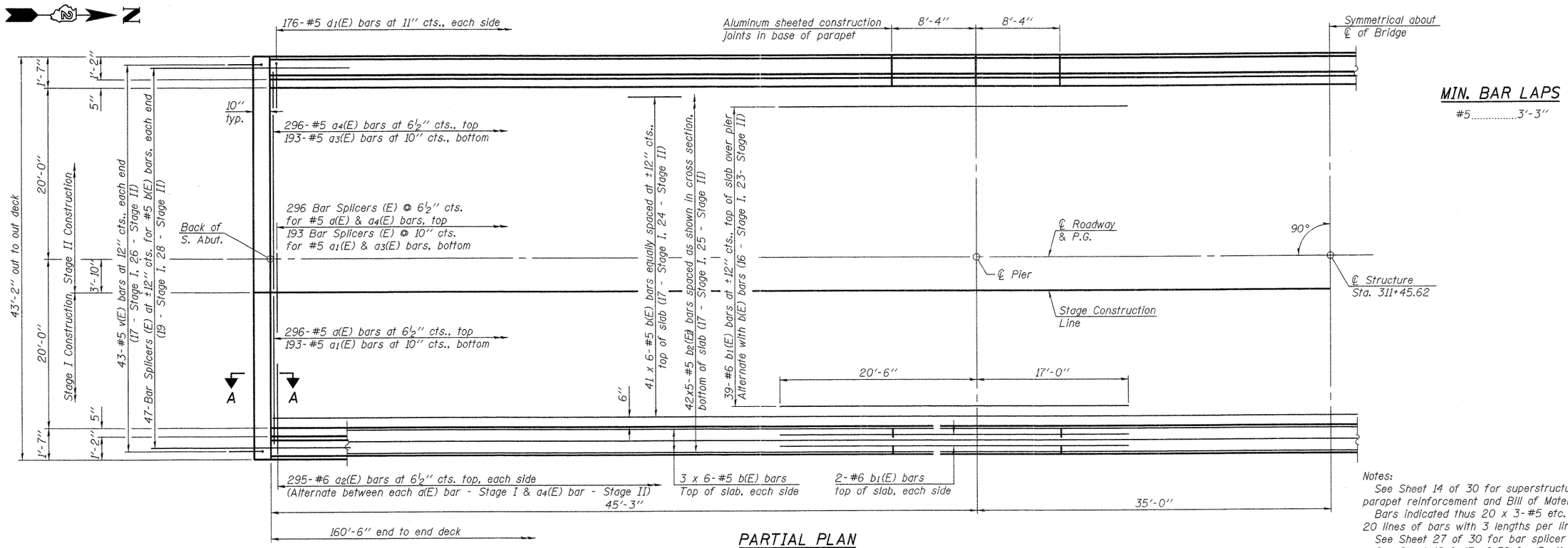
FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS

FILE NAME = 052081-64D57.DGN	DESIGNED - A.R.K.	REVISED -
USER NAME = S.A.P.	CHECKED - J.A.M.	REVISED -
PLOT SCALE =	DRAWN - S.A.P.	REVISED -
PLOT DATE = 08/10/11	CHECKED - A.R.K. & J.A.M.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF NORTH APPROACH SLAB ELEVATION
STRUCTURE NO. 052-0081
SHEET NO. 10 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-6	LEE	216	72
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			

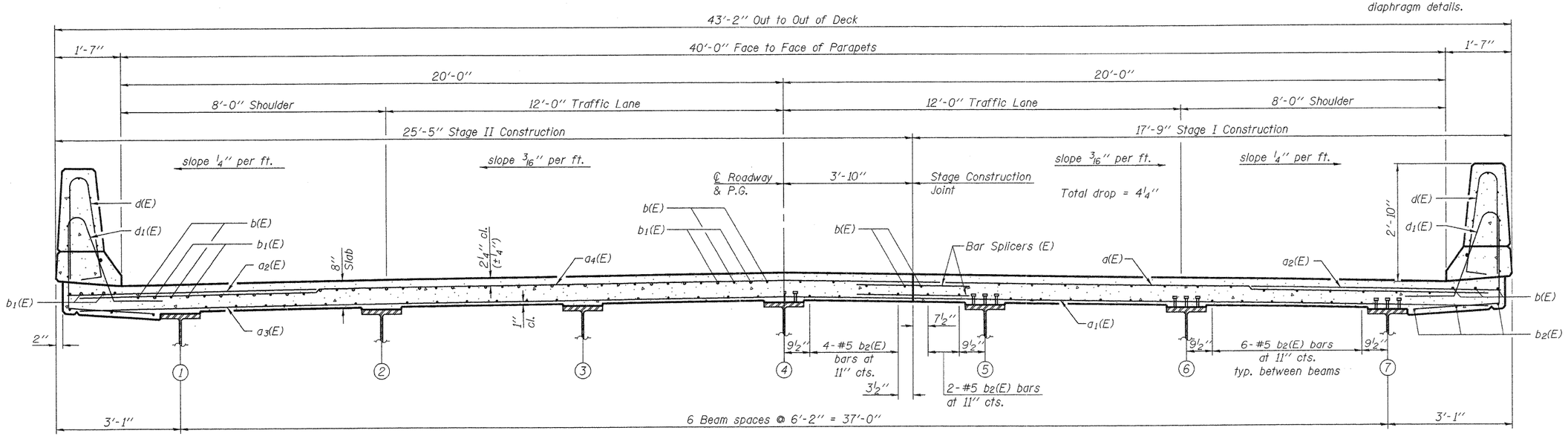


PARTIAL PLAN

MIN. BAR LAPS

#5 ..... 3'-3"

Notes:
See Sheet 14 of 30 for superstructure details, parapet reinforcement and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
See Sheet 27 of 30 for bar splicer details.
See Sheet 12 & 13 of 30 for Section A-A and diaphragm details.



NEAR PIER — NEAR MIDSPAN

CROSS SECTION

(Looking North)

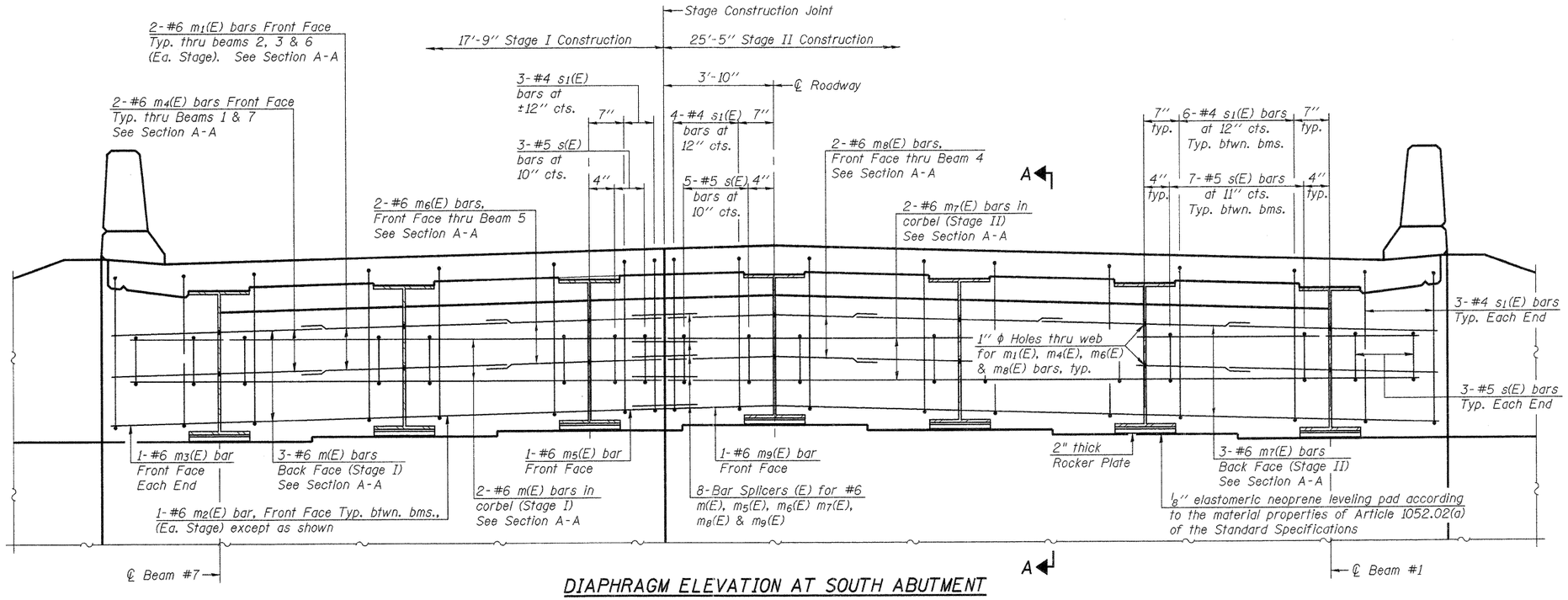
SI-2-0 7-1-10

FEHR–GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS			
	FILE NAME = 052008I-64D57.DGN	DESIGNED - A.R.K.	REVISED -
	USER NAME = S.A.P.	CHECKED - J.A.M.	REVISED -
	PLOT SCALE =	DRAWN - S.A.P.	REVISED -
	PLOT DATE = 08/10/11	CHECKED - A.R.K. & J.A.M.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

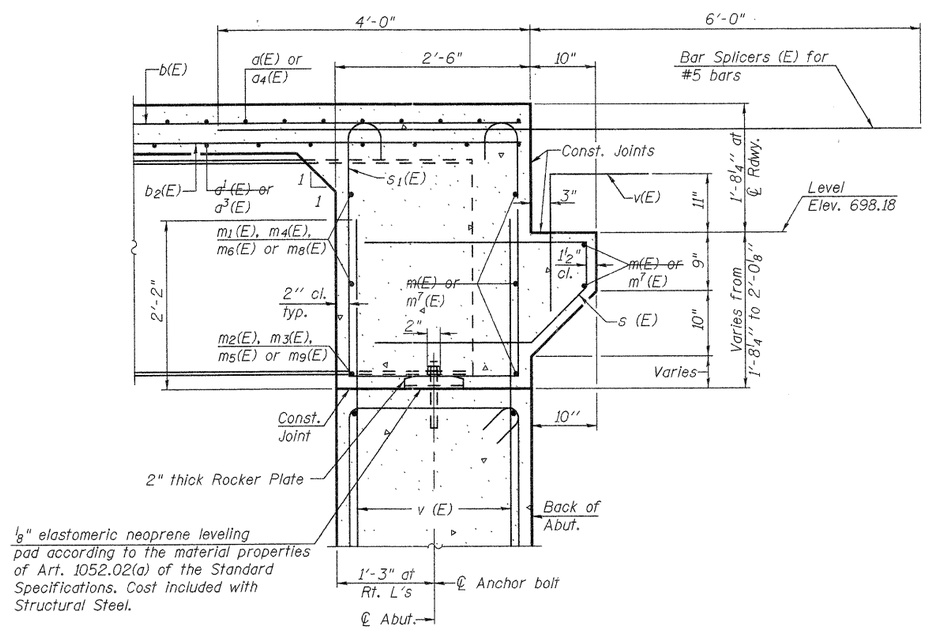
SUPERSTRUCTURE
STRUCTURE NO. 052–0081
SHEET NO. 11 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-6	LEE	216	73
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		



DIAPHRAGM ELEVATION AT SOUTH ABUTMENT

(Looking South)



SECTION A-A

Dimensions at right angles to abutment.

Notes:

Reinforcement bars in diaphragm are billed with superstructure on sheet 14 of 30.

Concrete in diaphragm is included with Concrete Superstructure on sheet 14 of 30.

For details of bars s(E) & s_1(E) see sheet 14 of 30.

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 Bar Splicer details see sheet 27 of 30.

MIN. BAR LAP

#6 bar = 3'-4"

SI-DS1 7-1-10

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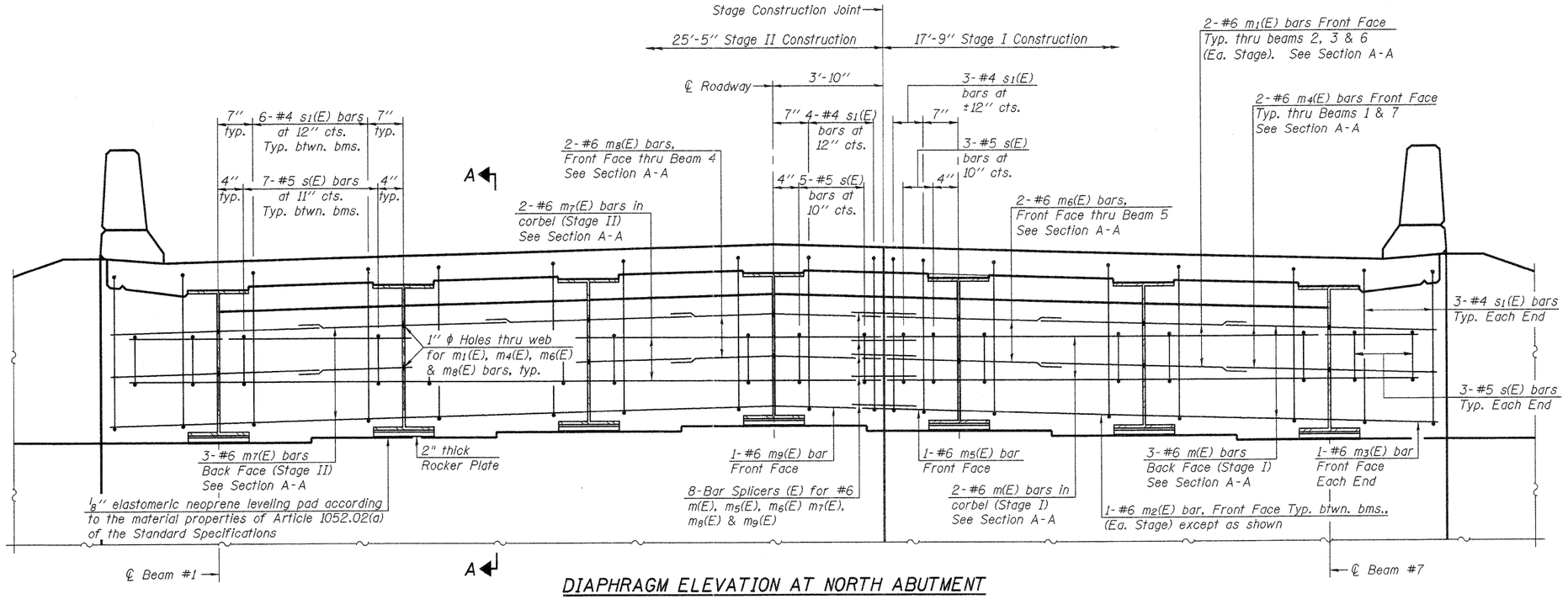
PLOT SCALE =	DRAWN - S.A.P.	REVISED -
PLOT DATE = 08/10/11	CHECKED - A.R.K. & J.A.M.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

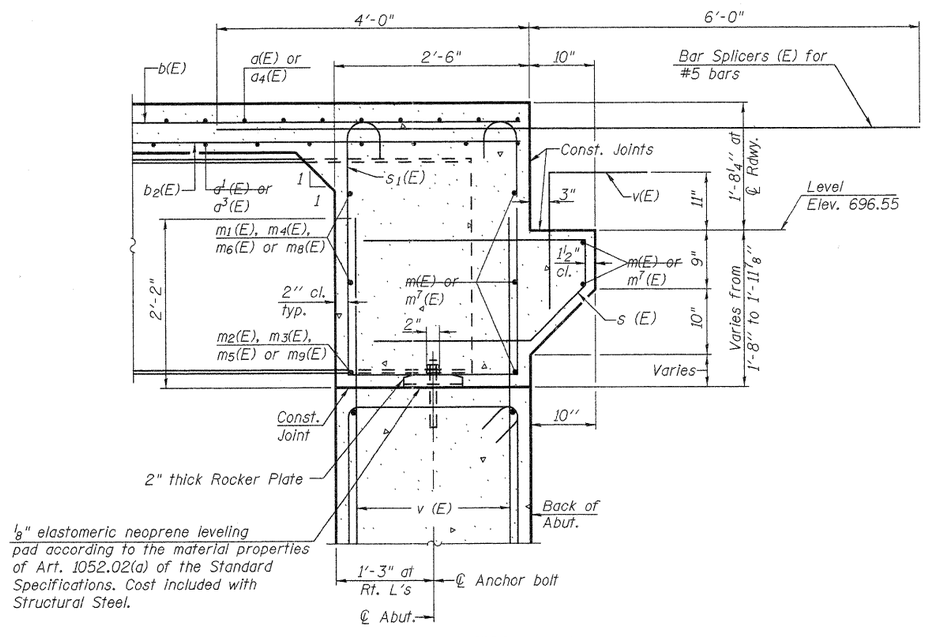
SOUTH INTEGRAL ABUTMENT DIAPHRAGM DETAILS
STRUCTURE NO. 052–0081
SHEET NO. 12 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-6	LEE	216	74
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		



DIAPHRAGM ELEVATION AT NORTH ABUTMENT

(Looking North)



SECTION A-A

Dimensions at right angles to abutment.

Notes:

Reinforcement bars in diaphragm are billed with superstructure on sheet 14 of 30.

Concrete in diaphragm is included with Concrete Superstructure on sheet 14 of 30.

For details of bars s(E) & s_1(E) see sheet 14 of 30.

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 Bar Splicer details see sheet 27 of 30.

MIN. BAR LAP

#6 bar = 3'-4"

SI-DS1 7-1-10

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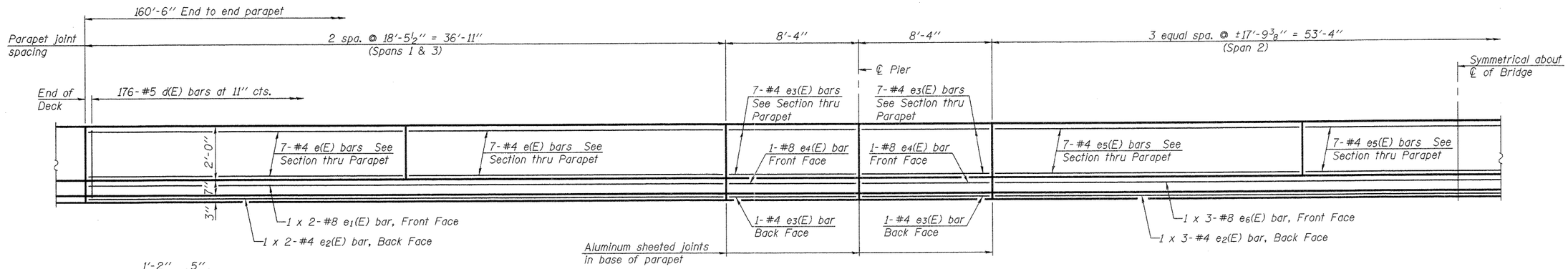
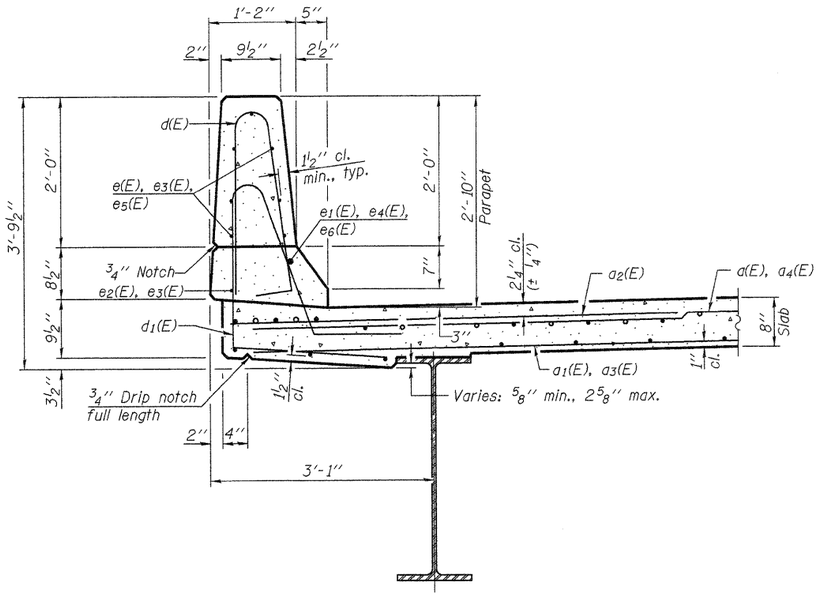
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH INTEGRAL ABUTMENT DIAPHRAGM DETAILS
STRUCTURE NO. 052-0081
SHEET NO. 13 OF 30 SHEETS

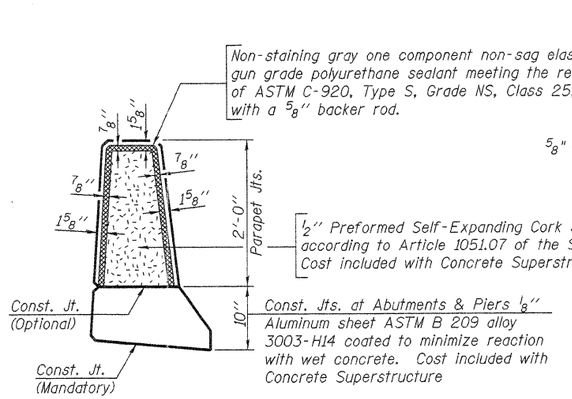
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-6	LEE	216	75
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		



INSIDE ELEVATION OF PARAPET



SECTION THRU PARAPET



PARAPET JOINT DETAILS

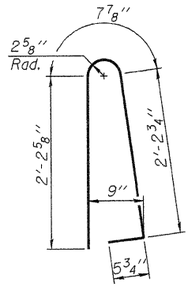
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	296	#5	17'-2"	——
a1(E)	193	#5	16'-8"	——
a2(E)	590	#6	6'-6"	——
a3(E)	193	#5	24'-4"	——
a4(E)	296	#5	24'-10"	——
b(E)	282	#5	29'-6"	——
b1(E)	86	#6	37'-6"	——
b2(E)	210	#5	34'-8"	——
d(E)	352	#5	5'-7"	
d1(E)	352	#5	7'-11"	
e(E)	56	#4	18'-1"	——
e1(E)	8	#8	20'-11"	——
e2(E)	14	#4	19'-4"	——
e3(E)	64	#4	8'-0"	——
e4(E)	8	#8	8'-0"	——
e5(E)	42	#4	17'-6"	——
e6(E)	6	#8	21'-4"	——
m(E)	10	#6	17'-6"	——
m1(E)	12	#6	9'-6"	——
m2(E)	10	#6	5'-10"	——
m3(E)	4	#6	2'-9"	——
m4(E)	8	#6	7'-8"	——
m5(E)	2	#6	2'-0"	——
m6(E)	4	#6	7'-1"	——
m7(E)	10	#6	25'-2"	——
m8(E)	4	#6	8'-7"	——
m9(E)	2	#6	3'-6"	——
s(E)	98	#5	6'-10"	⊐
s1(E)	86	#4	8'-10"	⊔
v(E)	86	#5	4'-0"	⌐
Reinforcement Bars, Epoxy Coated		Pound	58,380	
Concrete Superstructure		Cu. Yds.	238.3	

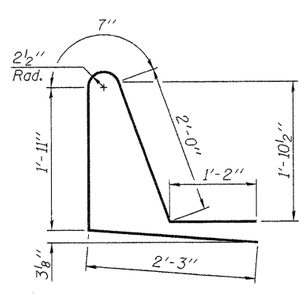
Bars indicated thus 1 x 3-#5 etc. indicates 1 line of bars with 3 lengths per line.

MINIMUM BAR LAP

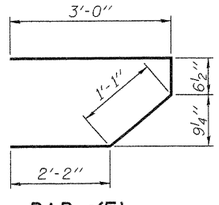
(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"



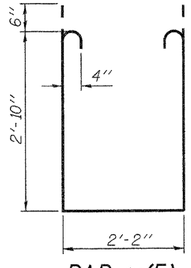
BAR d(E)



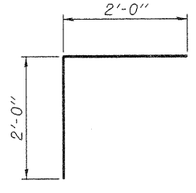
BAR d1(E)



BAR s(E)



BAR s1(E)



BAR v(E)

S-I-D 7-1-10

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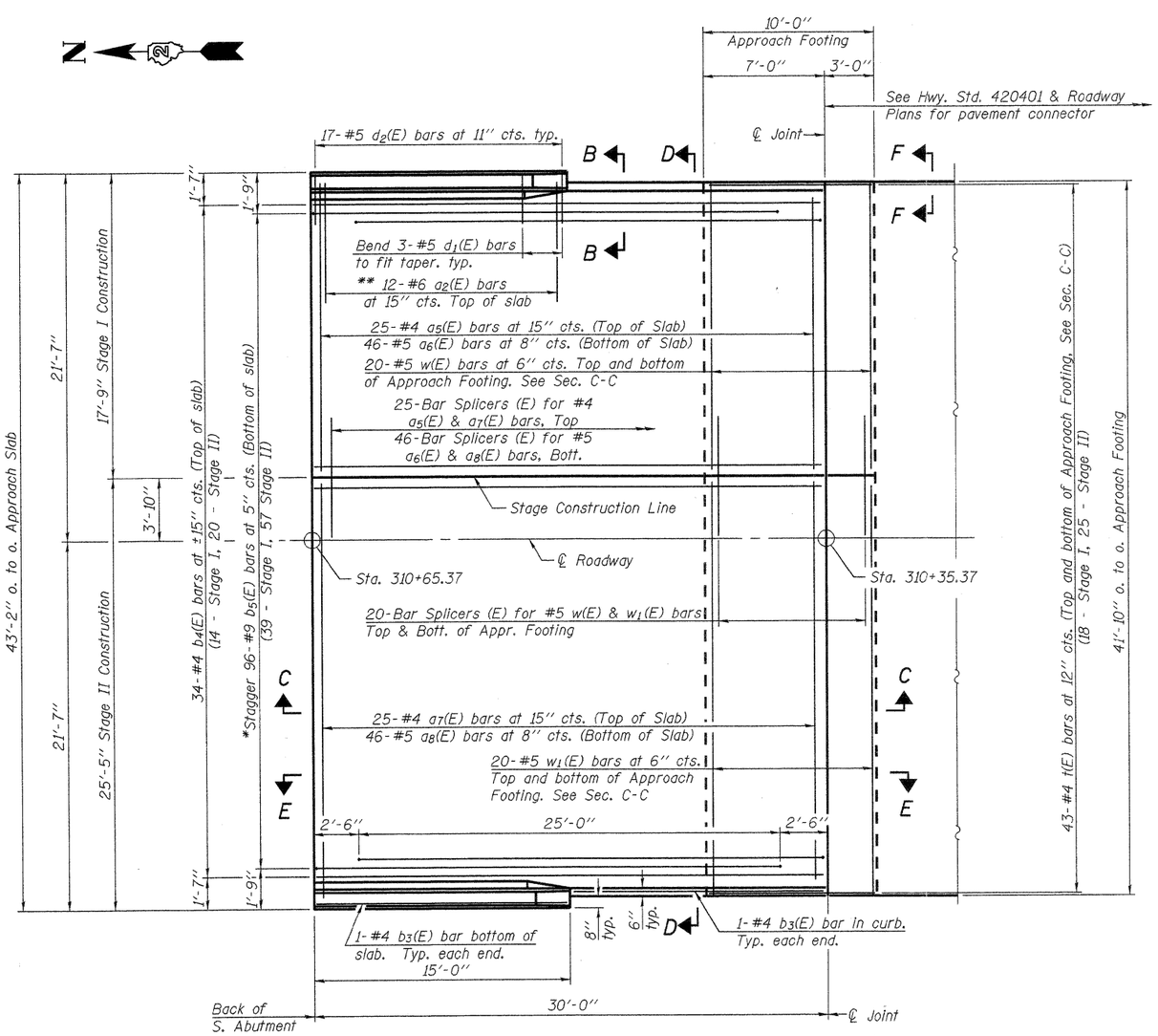
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 052-0081
SHEET NO. 14 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-6	LEE	216	76
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			

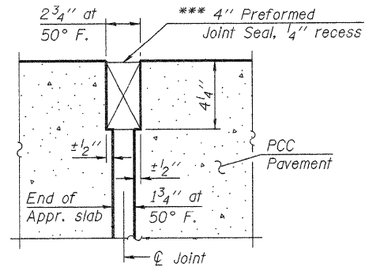
Notes:
See sheet 16 of 30 for Sections C-C & D-D and View E-E.
$a_5(E)$, $a_6(E)$, $a_7(E)$ & $a_8(E)$ bar spacings measured along ℄ Rdwy.



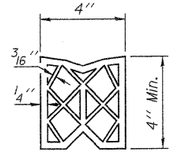
PLAN

* Tilt #9 $b_5(E)$ bars as required to maintain clearance.
** Space between $a_5(E)$ bars, typ. ea. parapet.

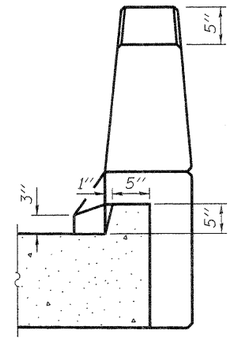
***Cost included with Concrete Superstructure



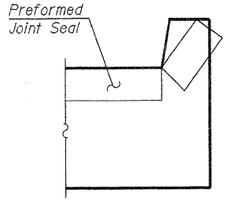
DETAIL A



PREFORMED JOINT SEAL



VIEW B-B



VIEW F-F

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

BA-0 7-1-10

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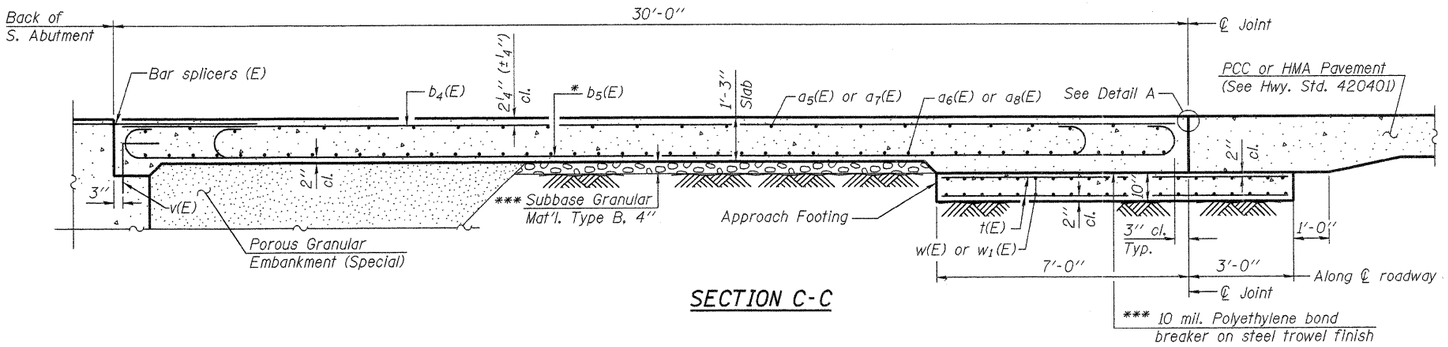
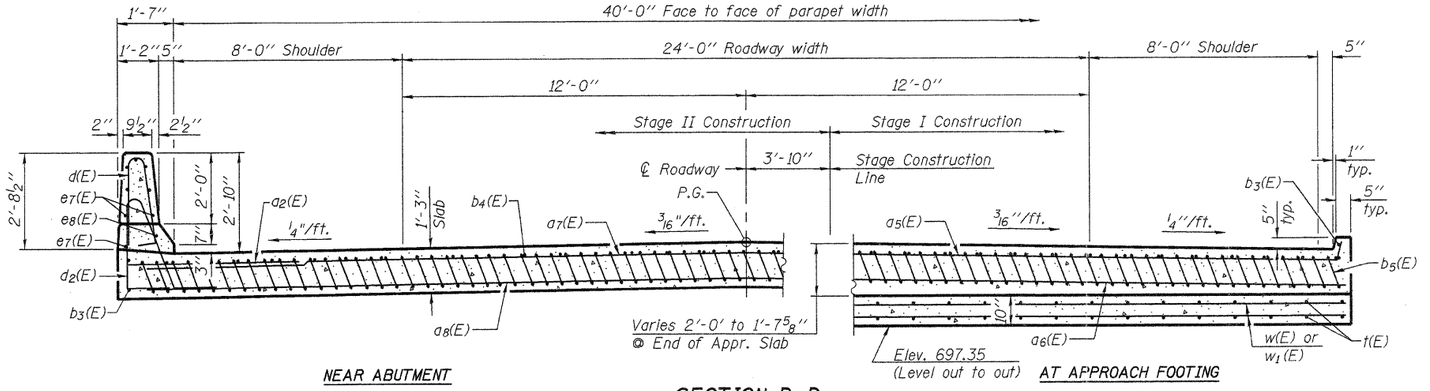
SOUTH BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 052–0081
SHEET NO. 15 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-6	LEE	216	77
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

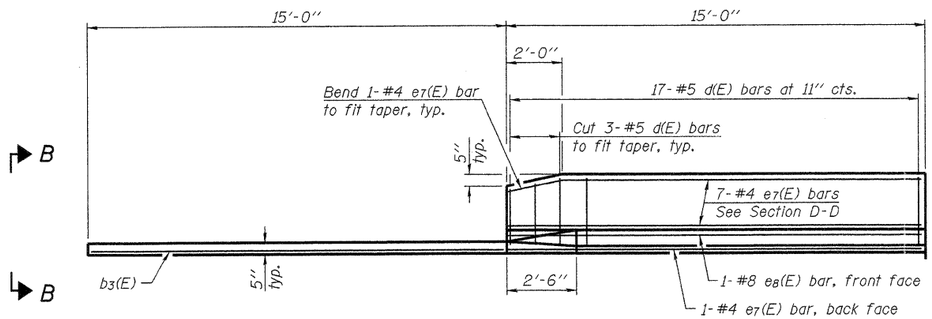


SECTION C-C

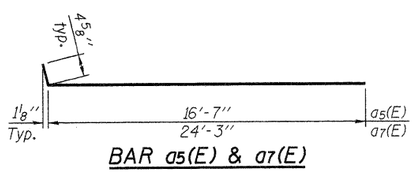


SECTION D-D

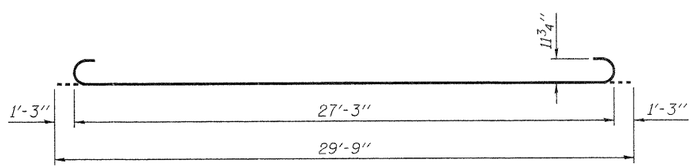
(Looking North)
(See Plan on Sheet 15 of 30 for dimensions not shown)



VIEW E-E

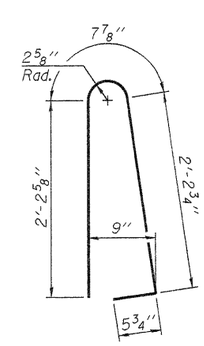


BAR a_5(E) & a_7(E)

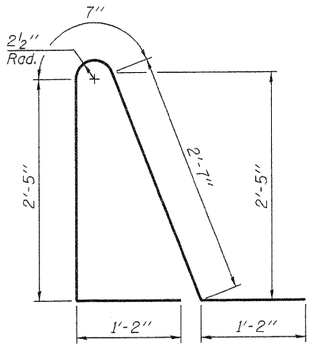


BAR b_5(E)

Notes:
See sheet 15 of 30 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 14 of 30.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
For bar splicer details, see sheet 27 of 30.
Cost of excavation for approach footing included with Concrete Structures.
For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 30.
For additional parapet details, see sheet 14 of 30.



BAR d(E)



BAR d_2(E)

* Tilt #9 b_5(E) bars as required to maintain clearance.

*** Cost included with Concrete Superstructure.

SOUTH APPROACH BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_2(E)	24	#6	6'-6"	—
a_5(E)	25	#4	17'-0"	L
a_6(E)	46	#5	16'-10"	—
a_7(E)	25	#4	24'-8"	L
a_8(E)	46	#5	24'-6"	—
b_3(E)	4	#4	14'-8"	—
b_4(E)	34	#4	29'-8"	—
b_5(E)	96	#9	29'-9"	C
d(E)	34	#5	5'-7"	
d_2(E)	34	#5	7'-11"	
e_7(E)	16	#4	14'-8"	—
e_8(E)	2	#8	14'-8"	—
t(E)	86	#4	17'-5"	—
w(E)	40	#5	16'-9"	—
w_1(E)	40	#5	24'-5"	—
Concrete Superstructure			Cu. Yd.	69.7
Concrete Structures			Cu. Yd.	12.9
Reinforcement Bars, Epoxy Coated			Pound	16,770

BA-0 7-1-10

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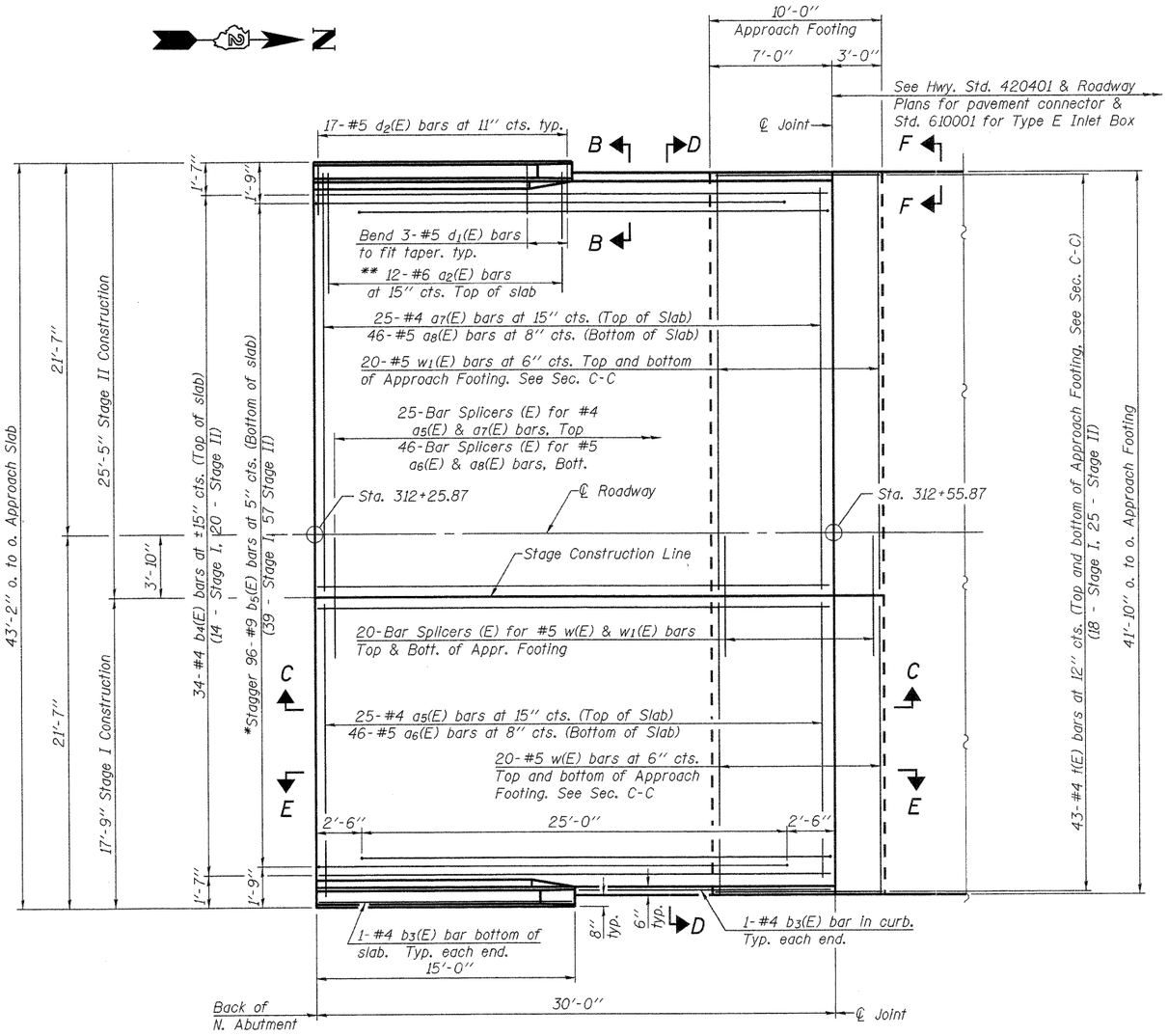
DEPARTMENT OF TRANSPORTATION

SOUTH BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 052-0081
SHEET NO. 16 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-6	LEE	216	78
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			

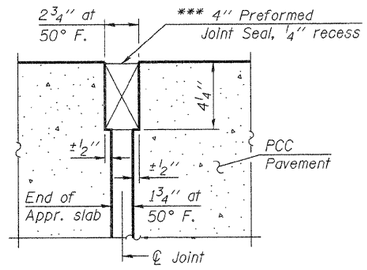
Notes:
See sheet 18 of 30 for Sections C-C & D-D and View E-E.
$a_5(E)$, $a_6(E)$, $a_7(E)$ & $a_8(E)$ bar spacings measured along ℄ Rdwy.



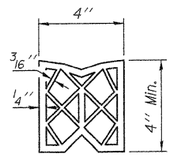
PLAN

* Tilt #9 $b_5(E)$ bars as required to maintain clearance.
** Space between d(E) bars, typ. ea. parapet.

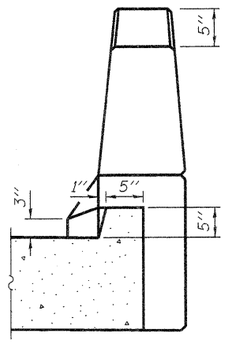
***Cost included with Concrete Superstructure



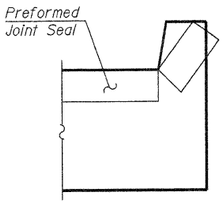
DETAIL A



PREFORMED JOINT SEAL



VIEW B-B



VIEW F-F

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

BA-0 7-1-10

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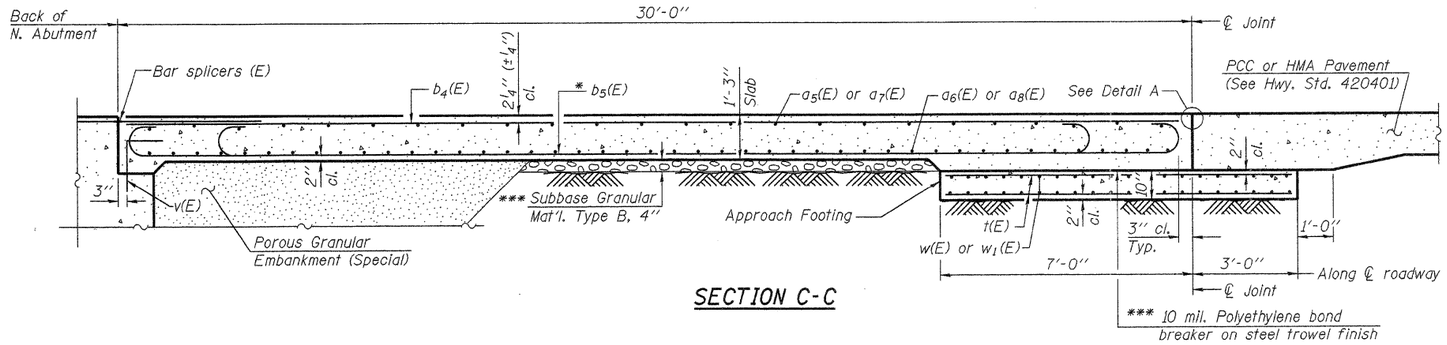
	PLOT DATE = 08/10/11	CHECKED - A.R.K. & J.A.M.	REVISED -

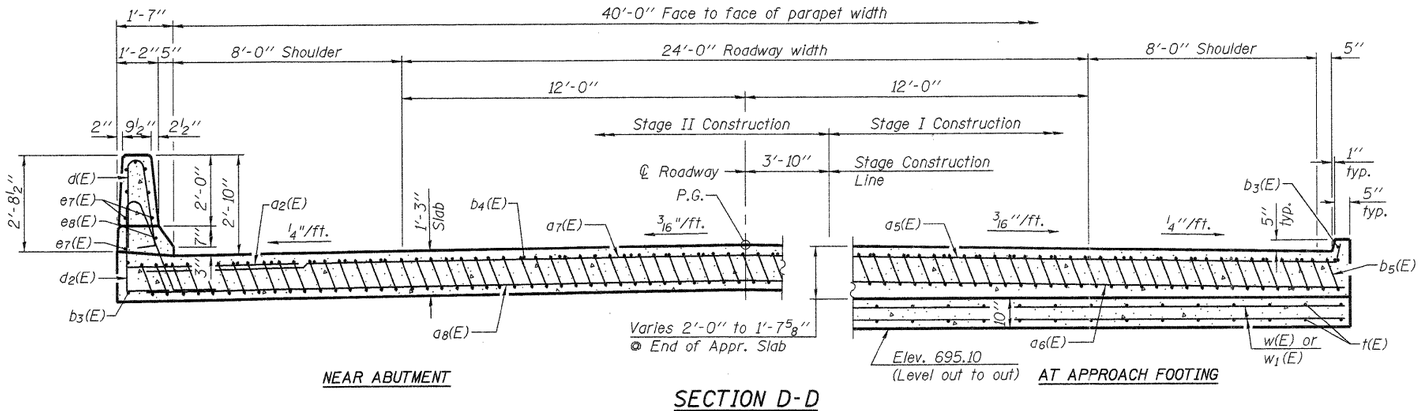
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 052–0081
SHEET NO. 17 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-6	LEE	216	79
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

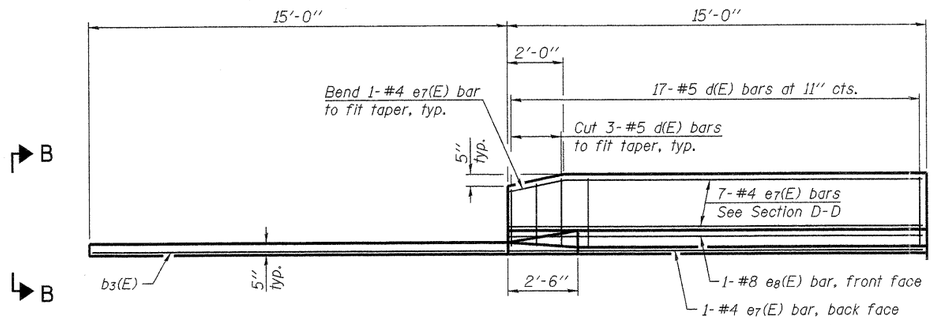


SECTION C-C

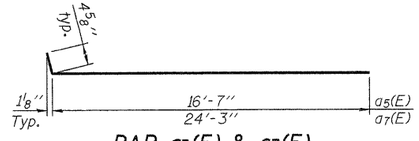


SECTION D-D

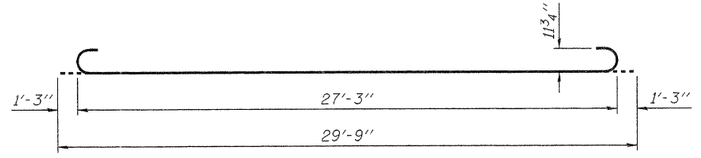
(Looking North)
(See Plan on Sheet 17 of 30 for dimensions not shown)



VIEW E-E

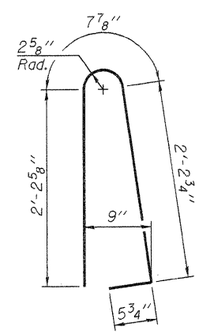


BAR a_5(E) & a_7(E)

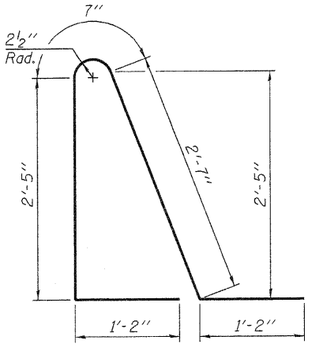


BAR b_5(E)

Notes:
See sheet 17 of 30 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 14 of 30.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
For bar splicer details, see sheet 27 of 30.
Cost of excavation for approach footing included with Concrete Structures.
For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 30.
For additional parapet details, see sheet 14 of 30.



BAR d(E)



BAR d_2(E)

* Tilt #9 b_5(E) bars as required to maintain clearance.

*** Cost included with Concrete Superstructure.

NORTH APPROACH
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d_2(E)	24	#6	6'-6"	
a_5(E)	25	#4	17'-0"	
a_6(E)	46	#5	16'-10"	
a_7(E)	25	#4	24'-8"	
a_8(E)	46	#5	24'-6"	
b_3(E)	4	#4	14'-8"	
b_4(E)	34	#4	29'-8"	
b_5(E)	96	#9	29'-9"	
d(E)	34	#5	5'-7"	
d_2(E)	34	#5	7'-11"	
e_7(E)	16	#4	14'-8"	
e_8(E)	2	#8	14'-8"	
t(E)	86	#4	17'-5"	
w(E)	40	#5	16'-9"	
w_1(E)	40	#5	24'-5"	
Concrete Superstructure			Cu. Yd.	69.7
Concrete Structures			Cu. Yd.	12.9
Reinforcement Bars, Epoxy Coated			Pound	16,770

BA-0 7-1-10

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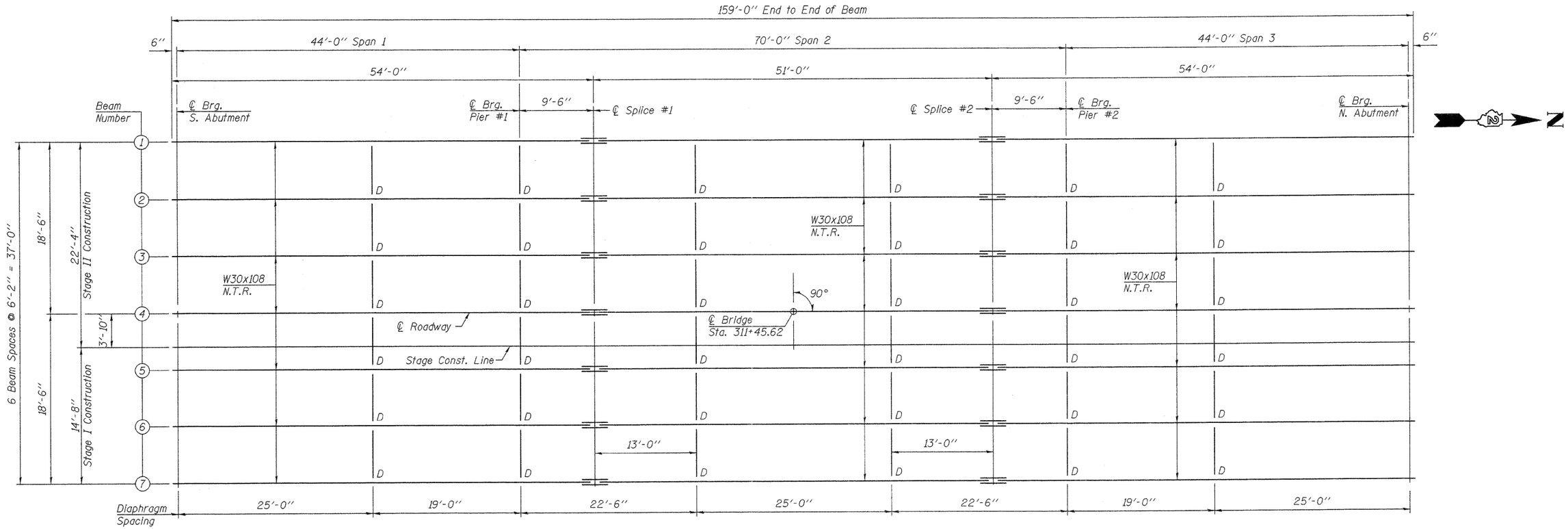
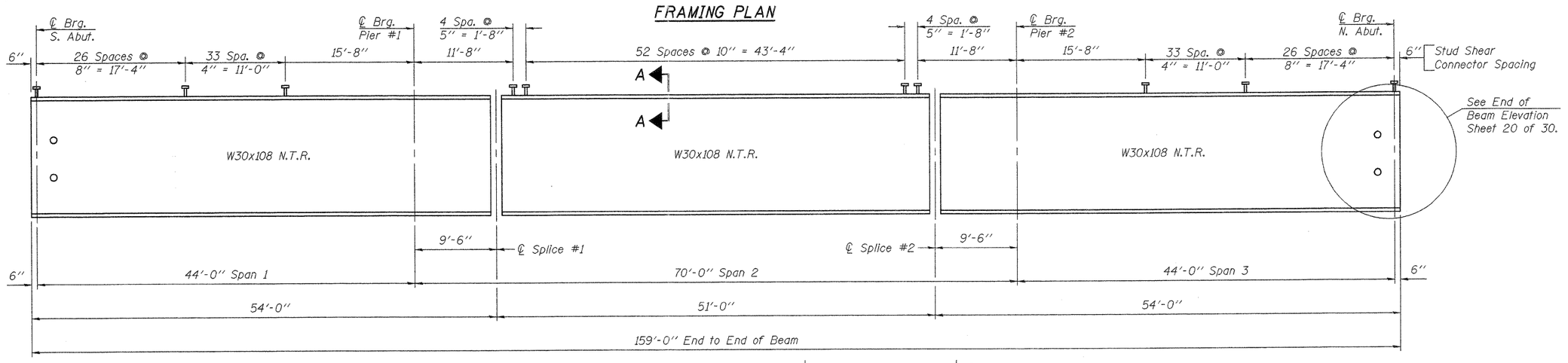
DEPARTMENT OF TRANSPORTATION

NORTH BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 052-0081
SHEET NO. 18 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-6	LEE	216	80
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			



FRAMING PLAN



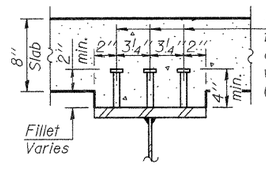
TOP OF BEAM ELEVATIONS

(For Fabrication Only)

	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6	Beam 7
℄ Brg. S. Abut.	698.83	698.96	699.06	699.15	699.06	698.96	698.83
℄ Brg. Pier #1	698.32	698.45	698.55	698.64	698.55	698.45	698.32
℄ Splice #1	698.21	698.34	698.44	698.53	698.44	698.34	698.21
℄ Splice #2	697.69	697.82	697.92	698.01	697.92	697.82	697.69
℄ Brg. Pier #2	697.61	697.74	697.84	697.93	697.84	697.74	697.61
℄ Brg. N. Abut.	697.22	697.35	697.45	697.54	697.45	697.35	697.22

Note: N.T.R. Indicates that Notch Toughness Requirements are applicable.

ELEVATION



3/4" ϕ Granular or solid flux filled headed studs automatically end welded to flange. (No. Req'd.= 3,801)

SECTION A-A

Note: See Sheet 20 of 30 for Splice Details.

All structural steel shall be AASHTO M 270 Grade 50W.

Load carrying components designated "N.T.R." shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

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

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FILE NAME = 0520081-64057.DGN	DESIGNED - A.R.K.	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL
STRUCTURE NO. 052–0081
SHEET NO. 19 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-6	LEE	216	81
		CONTRACT NO. 64D57		
	ILLINOIS	FED. AID PROJECT		

INTERIOR BEAM MOMENT TABLE				
		0.4 Sp. 1 or 0.6 Sp. 3	Pier 1 or 2	0.5 Sp. 2
I_s	(in^4)	4,470	4,470	4,470
$I_c(n)$	(in^4)	12,916	———	12,916
$I_c(3n)$	(in^4)	9,547	———	9,547
S_s	(in^3)	299	299	299
$S_c(n)$	(in^3)	456	———	456
$S_c(3n)$	(in^3)	412	———	412
Z	(in^3)	———	346	———
DC1	(k/')	0.760	0.760	0.760
M_{DC1}	('k)	67	270	190
DC2	(k/')	0.155	0.155	0.155
M_{DC2}	('k)	18	46	50
DW	(k/')	0.290	0.290	0.290
M_{DW}	('k)	33	84	92
M_{L+IM}	('k)	433	376	735
M_u (Strength I)	('k)	914	1,172	1,716
* $\phi_f M_n$, $\phi_f M_{nc}$	('k)	2,276	———	2,276
f_s DC1	(ksi)	2.7	10.8	7.6
f_s DC2	(ksi)	0.5	1.8	1.5
f_s DW	(ksi)	1.0	3.4	2.7
f_s 1.3(M_L+IM)	(ksi)	14.8	19.6	25.1
f_s (Service II)	(ksi)	19.0	35.6	36.9
** f_s (Total)(Strength I)	(ksi)	———	47.2	———
V_f	(k)	19.8	———	18.4

* Compact sections
** Non-Compact and slender sections

INTERIOR BEAM REACTION TABLE			
		Abuts.	Pier 1 & 2
R_{DC1}	(k)	10.4	48.9
R_{DC2}	(k)	2.4	10.0
R_{DW}	(k)	4.4	18.2
R_{L+IM}	(k)	58.3	91.1
R_{Total}	(k)	75.5	168.2

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

Z: Plastic Section Modulus of the steel section in non-composite areas.

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.).
$1.25\ (M_{DC1} + M_{DC2}) + 1.5\ M_{DW} + 1.75\ M_{L+IM}$

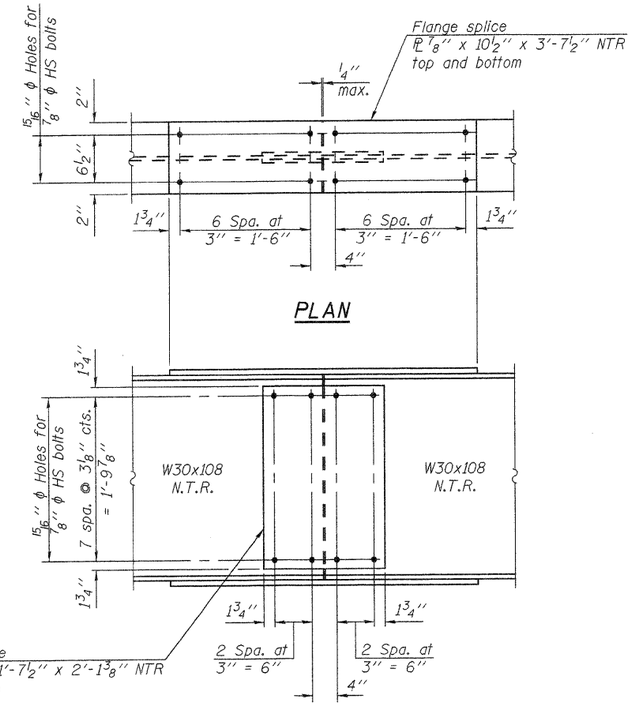
$\phi_f M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).

$\phi_f M_{nc}$: Compact non-composite negative moment capacity computed according to Article A6.1.1 (kip-ft.).

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

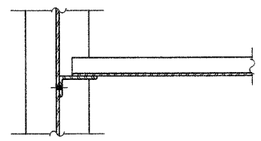
f_s (Total)(Strength I): Sum of stresses as computed from the moments below on non-compact section (ksi).
$1.25\ (M_{DC1} + M_{DC2}) + 1.5\ M_{DW} + 1.75\ M_{L+IM}$

V_f: Maximum factored shear range in composite portion of span computed according to Article 6.10.10.

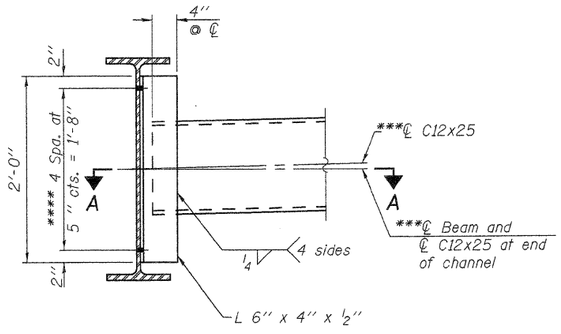


ELEVATION

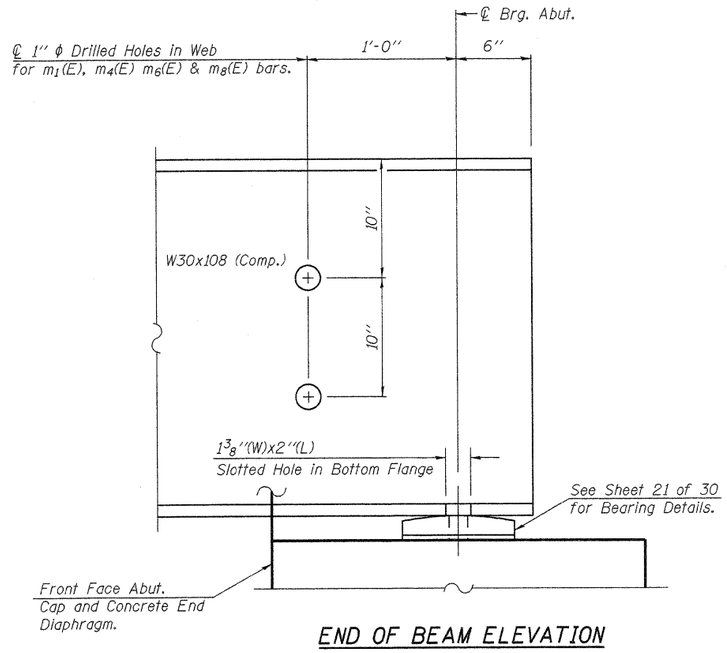
SPLICE DETAIL
(14 Required)



SECTION A-A



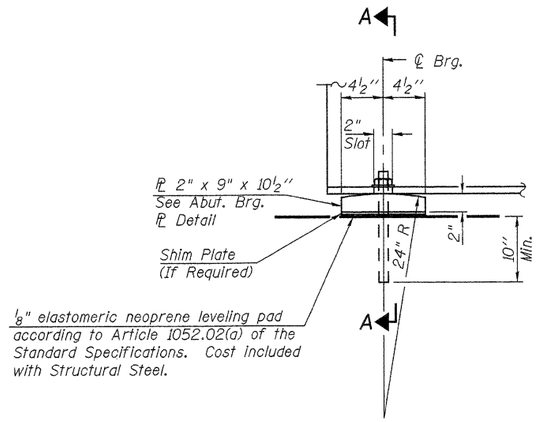
INTERIOR DIAPHRAGM - D
(36 Req'd.)



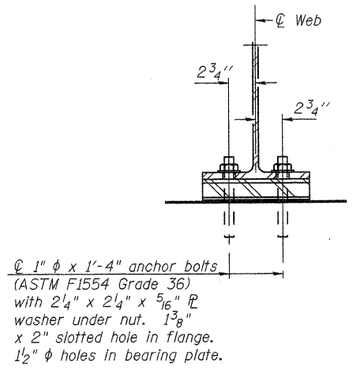
END OF BEAM ELEVATION
(Typical)

Note:
Two hardened washers required for each set of oversized holes.
***Alternate channels C12x30 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.
****Bolts 3/4" ϕ, holes 15/16" ϕ except the connection angles on Beam 4 near the Stage Construction Line shall have 13/16" x 1 7/8" vertical slotted holes. The bolts in the slotted holes shall be finger tight until the Stage II Deck pour is completed. The slotted holes in the connection angles shall be positioned to allow the bolts to move from one end of the slotted hole to the opposite end under deck load. The holes shall be positioned allowing maximum bolt displacement without laterally stressing the beams. No slotted holes are allowed on the beams.

Work this Sheet with Sheets 19 & 21 of 30.



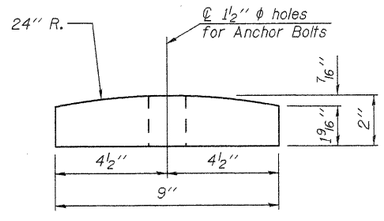
ELEVATION AT ABUTMENTS



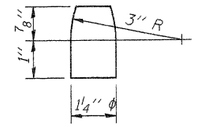
SECTION A-A

ABUTMENT BEARING DETAILS

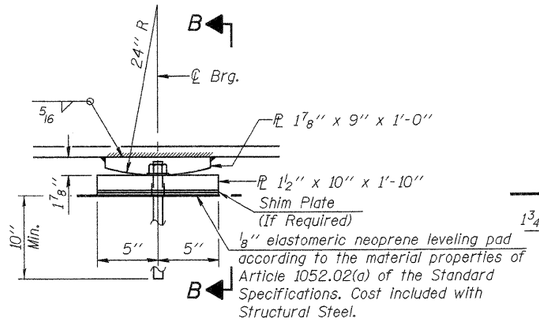
(14 Required)
Weight included with Structural Steel.



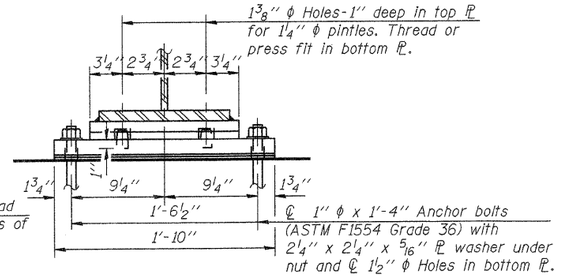
ABUTMENT BEARING PLATE DETAIL



PINTLE



ELEVATION AT PIERS 1 & 2



SECTION B-B

PIER BEARING DETAILS

(14 Required)
Weight included with Structural Steel.

Notes: Two ⅛" adjusting shims, of the dimension of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.

Anchor bolts shall be ASTM F1554 Grade 36, all-thread of the diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36 ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at piers may be either cast in place or installed in holes drilled after the supported member is in place.

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

Pintles and structural steel plates of the Bearing Assemblies shall conform to the requirements of AASHTO M270 Grade 50W.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	56

Work this Sheet with Sheets 19 & 20 of 30.

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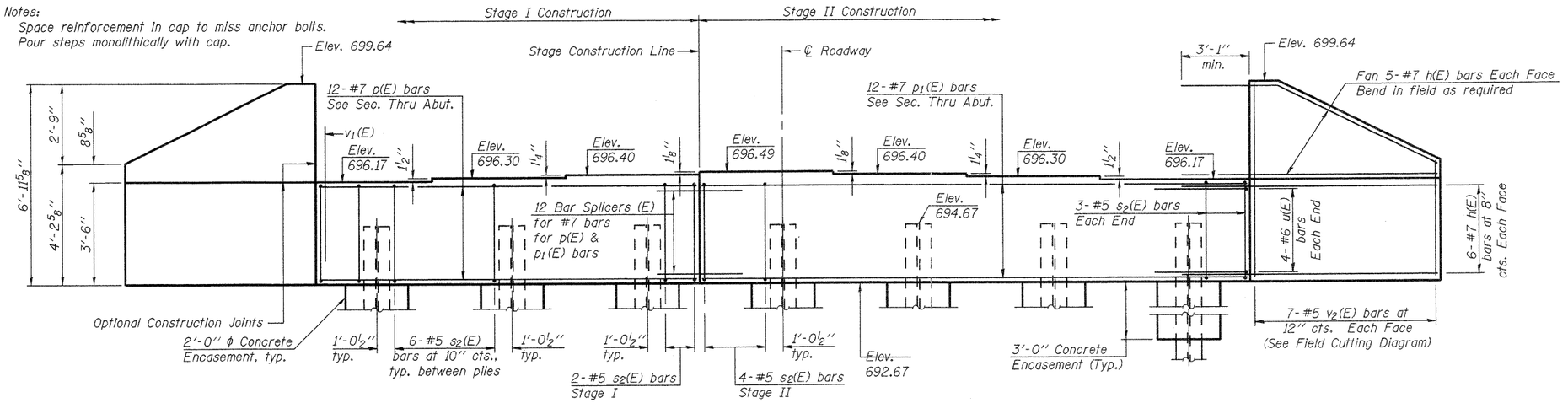
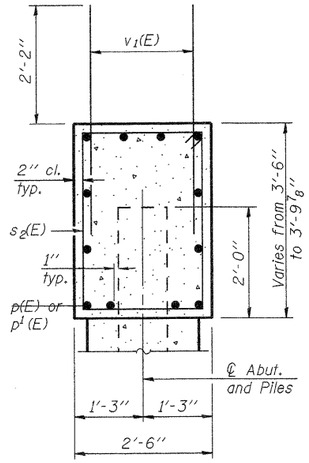
	USER NAME = S.A.P.	CHECKED - J.A.M.	REVISED -			316	102BR-6	LEE	216	83
	PLOT SCALE =	DRAWN - S.A.P.	REVISED -						CONTRACT NO. 64D57	
	PLOT DATE = 08/10/11	CHECKED - A.R.K. & J.A.M.	REVISED -		SHEET NO. 21 OF 30 SHEETS			ILLINOIS	FED. AID PROJECT	

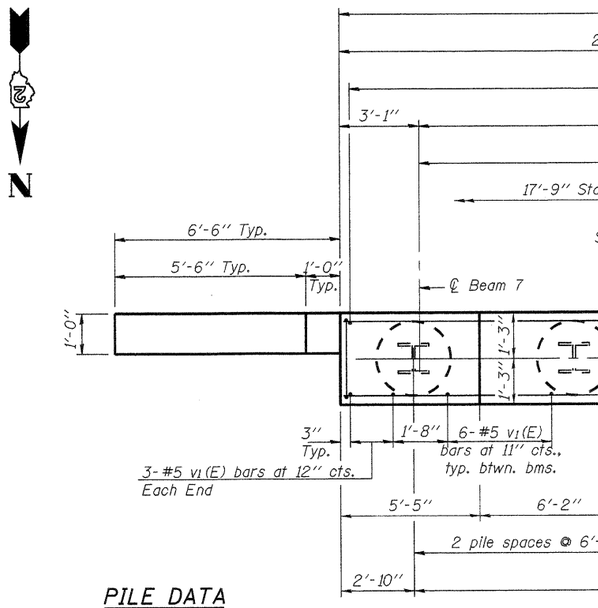
Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.



ELEVATION



SEC. THRU ABUT.



PLAN

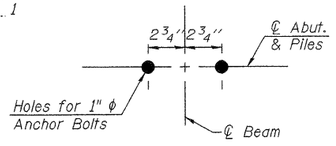
SOUTH ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	44	#7	10'-1"	——
p(E)	12	#7	17'-6"	——
p1(E)	12	#7	25'-2"	——
s2(E)	42	#5	11'-7"	□
u(E)	8	#6	14'-1"	▭
v1(E)	86	#5	4'-6"	——
v2(E)	14	#5	10'-10"	——
Structure Excavation		Cu. Yd.	96	
Concrete Structures		Cu. Yd.	17.4	
Reinforcement Bars, Epoxy Coated		Pound	3,190	
Furnishing Steel Piles, HP12x53		Foot	420	
Driving Piles		Foot	420	
Test Piles, Steel HP12x53		Each	1	
Concrete Encasement		Cu. Yd.	2.4	

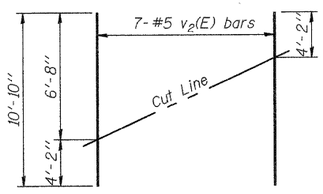
For details of Bar Splicers, see sheet 27 of 30.
For details of piles and Concrete Encasement, see sheet 26 of 30.

PILE DATA

Type:	HP12x53
Nominal Required Bearing:	240 k
Factored Resistance Available:	132 k
Est. Length:	70 ft.
No. Production Piles:	6
No. Test Piles:	1

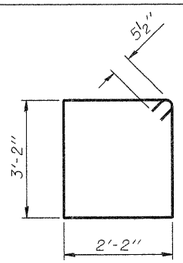


ANCHOR BOLT LAYOUT

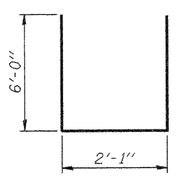


FIELD CUTTING DIAGRAM

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



BAR s2(E)



BAR u(E)

AI-0 7-1-10

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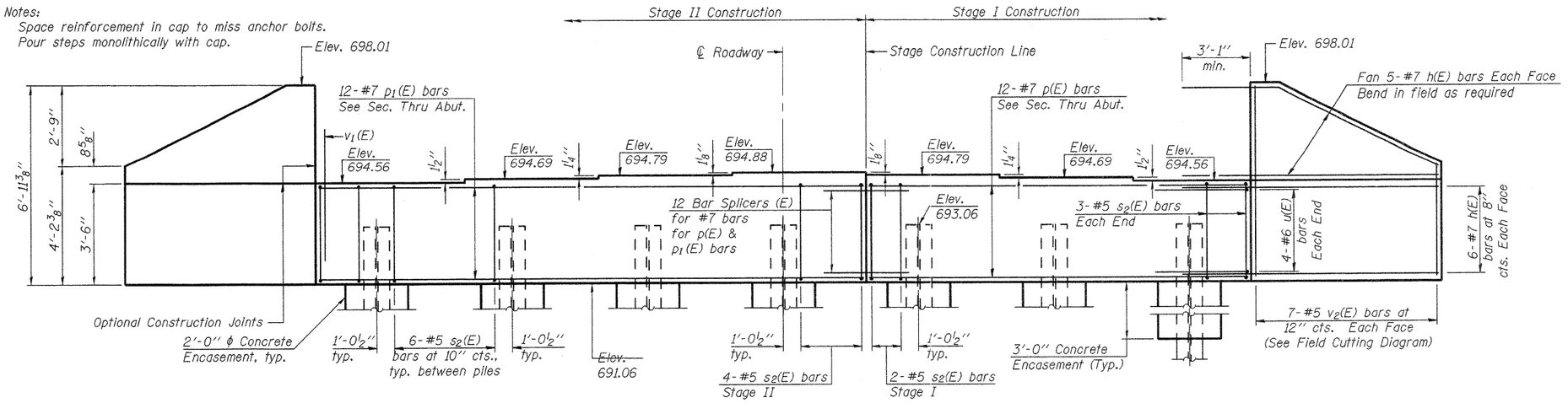
	PLOT SCALE =	DRAWN - S.A.P.	REVISED -
	PLOT DATE = 08/10/11	CHECKED - A.R.K. & J.A.M.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

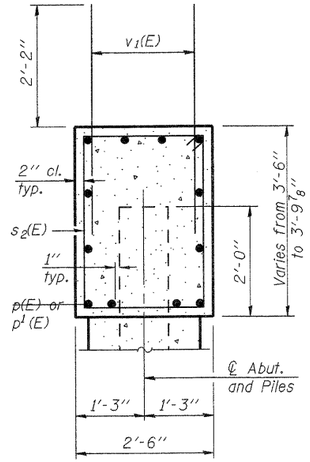
SOUTH ABUTMENT
STRUCTURE NO. 052-0081
SHEET NO. 22 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-6	LEE	216	84
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

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



ELEVATION



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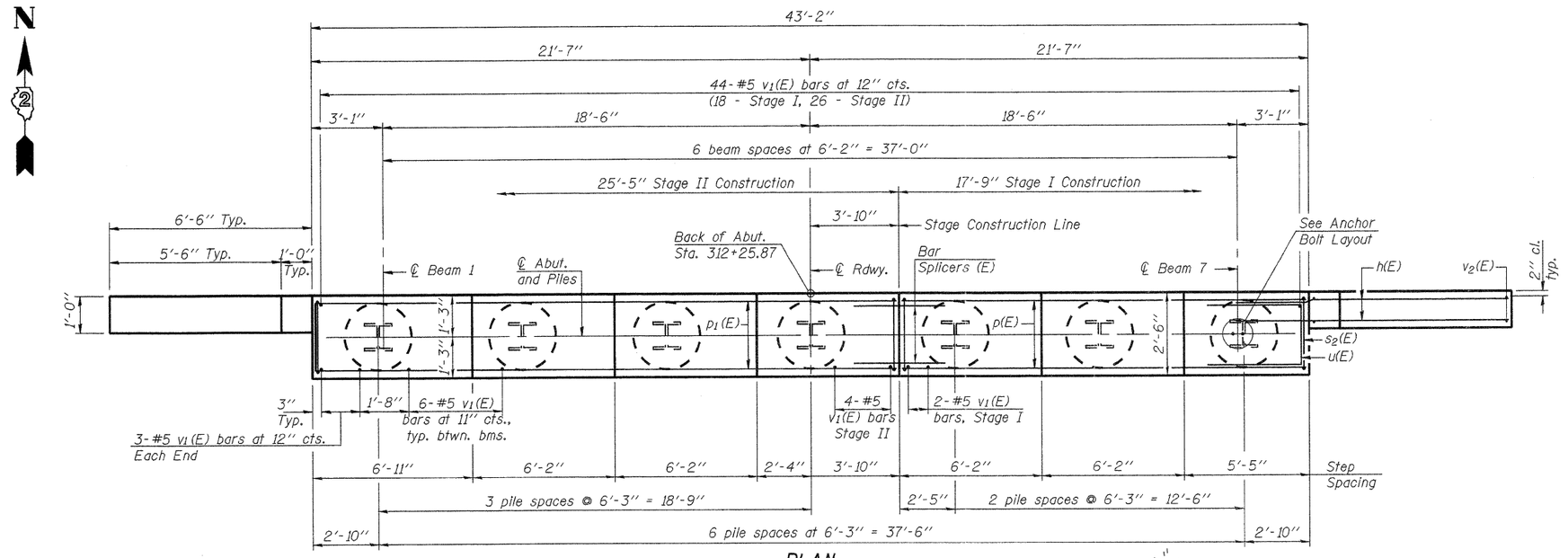


PLAN

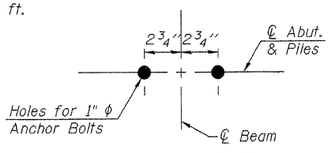
NORTH ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	44	#7	10'-1"	
p(E)	12	#7	17'-6"	
p1(E)	12	#7	25'-2"	
s2(E)	42	#5	11'-7"	
u(E)	8	#6	14'-1"	
v1(E)	86	#5	4'-6"	
v2(E)	14	#5	10'-10"	
Structure Excavation	Cu. Yd.		96	
Concrete Structures	Cu. Yd.		17.4	
Reinforcement Bars, Epoxy Coated	Pound		3,190	
Furnishing Steel Piles, HP12x53	Foot		504	
Driving Piles	Foot		504	
Test Piles, Steel HP12x53	Each		1	
Concrete Encasement	Cu. Yd.		2.4	

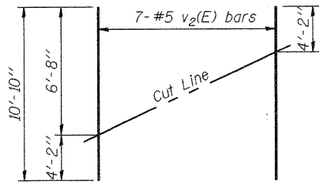
For details of Bar Splicers, see sheet 27 of 30.
For details of piles and Concrete Encasement, see sheet 26 of 30.

PILE DATA

Type: HP12x53
Nominal Required Bearing: ..... 240 k
Factored Resistance Available: ..... 132 k
Est. Length: ..... 84 ft.
No. Production Piles: 6
No. Test Piles: 1

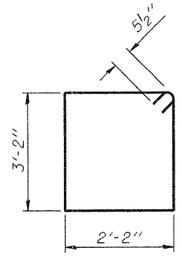


ANCHOR BOLT LAYOUT

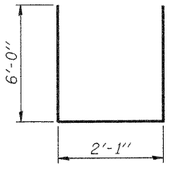


FIELD CUTTING DIAGRAM

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



BAR s2(E)



BAR u(E)

AI-0 7-1-10

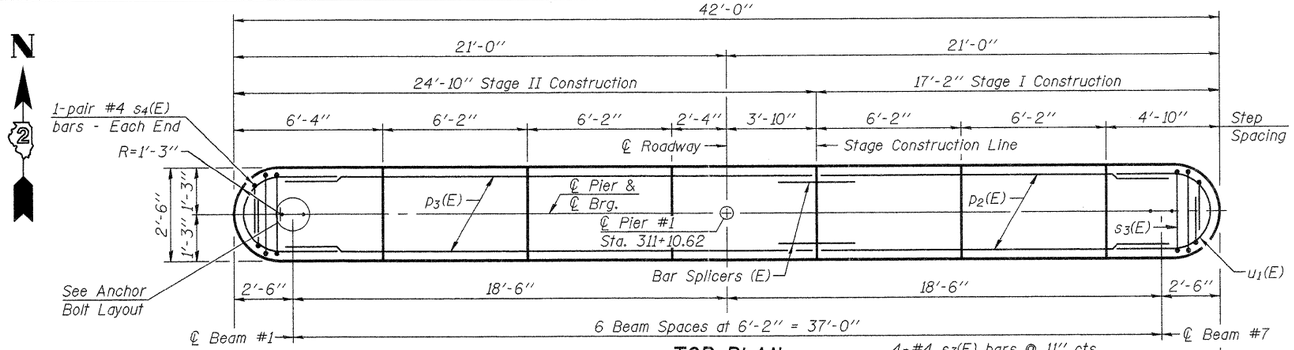
FEHR–GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS	FILE NAME = 052008I-64D57.DGN	DESIGNED - A.R.K.	REVISED -
	USER NAME = S.A.P.	CHECKED - J.A.M.	REVISED -
	PLOT SCALE =	DRAWN - S.A.P.	REVISED -
	PLOT DATE = 08/10/11	CHECKED - A.R.K. & J.A.M.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

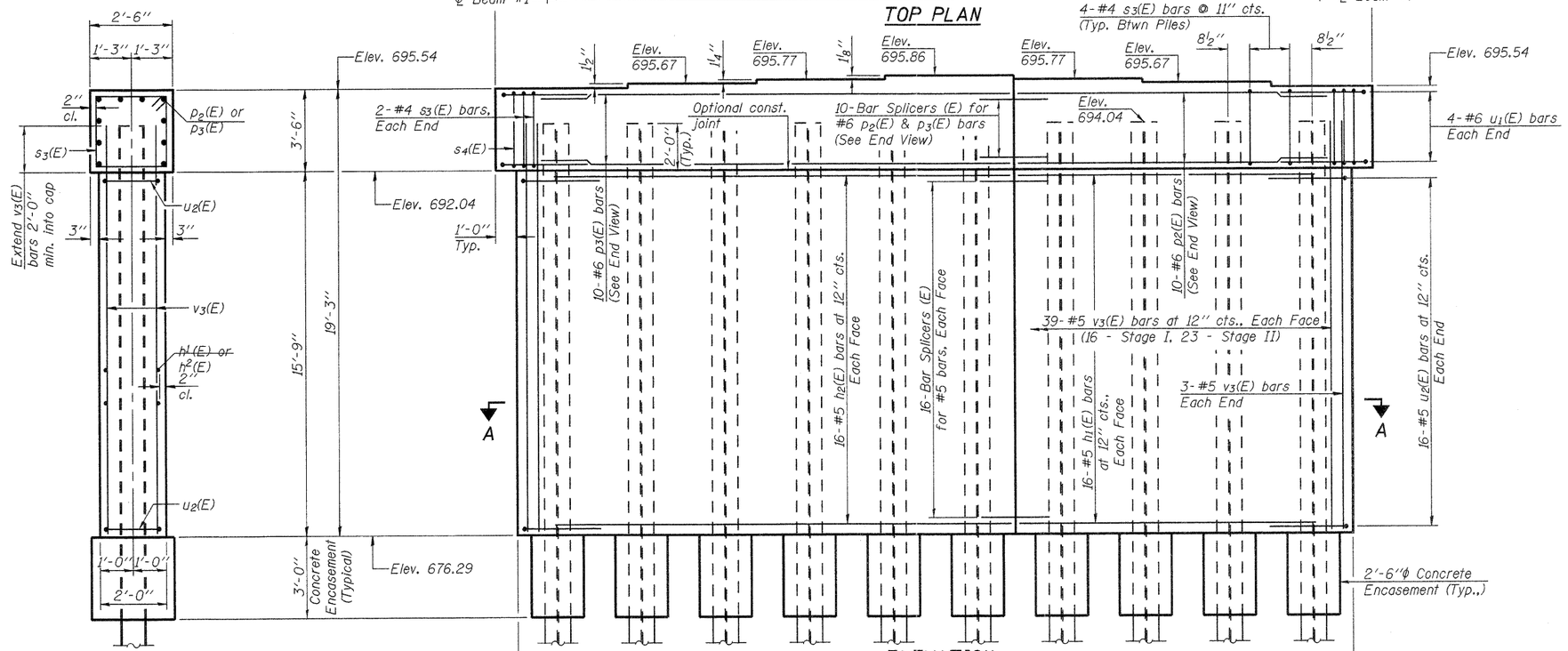
NORTH ABUTMENT
STRUCTURE NO. 052-0081
SHEET NO. 23 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-6	LEE	216	85
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			

Notes:
If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles and concrete encasement, see sheet 26 of 30.

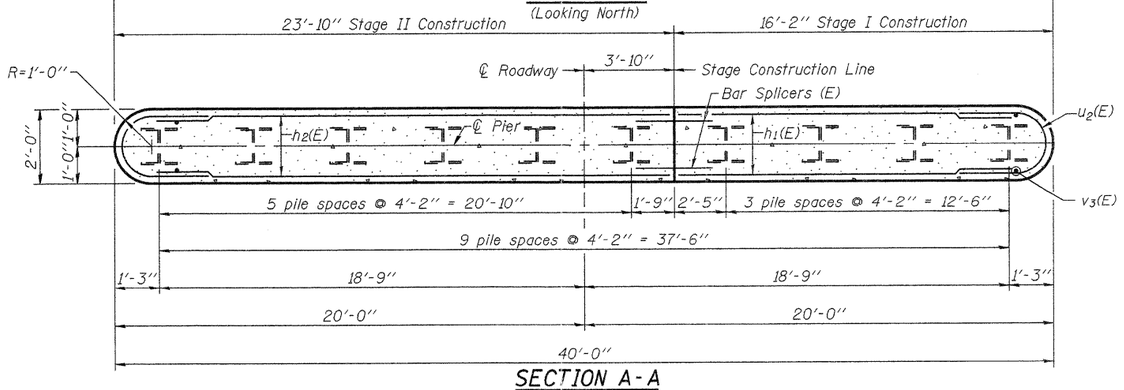


TOP PLAN

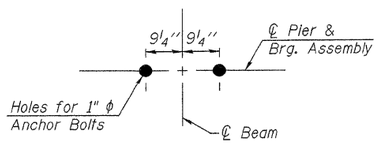


END VIEW

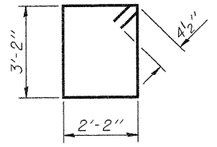
ELEVATION
(Looking North)



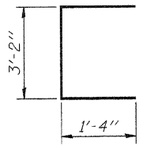
SECTION A-A



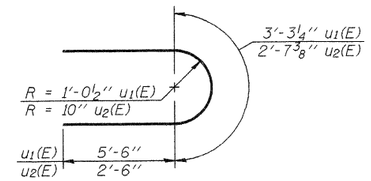
ANCHOR BOLT LAYOUT



BAR s3(E)



BAR s4(E)



BARS u1(E) & u2(E)

PILE DATA

Type:	HP14x73
Nominal Required Bearing:	290 k
Factored Resistance Available:	157 k
Est. Length:	76 ft.
No. Production Piles:	9
No. Test Piles:	1

PIER #1
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_1(E)$	32	#5	14'-11"	——
$h_2(E)$	32	#5	22'-7"	——
$p_2(E)$	10	#6	15'-8"	——
$p_3(E)$	10	#6	23'-4"	——
$s_3(E)$	40	#4	11'-5"	□
$s_4(E)$	4	#4	5'-10"	⊏
$u_1(E)$	8	#6	14'-3"	⊃
$u_2(E)$	32	#5	7'-8"	⊃
$v_3(E)$	84	#5	17'-7"	——
Structure Excavation		Cu. Yd.		70
Concrete Structures		Cu. Yd.		60.2
Reinforcement Bars, Epoxy Coated		Pound		4,130
Furnishing Steel Piles, HP14x73		Foot		684
Driving Piles		Foot		684
Test Piles, Steel HP14x73		Each		1
Concrete Encasement		Cu. Yd.		5.5
Underwater Structure Excavation Protection, Location 1		Each		1

For details of Bar Splicers, See Sheet 27 of 30.

Steel H-Piles shall be according to AASHTO M270 Grade 50.

PC-1 7-1-10

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS

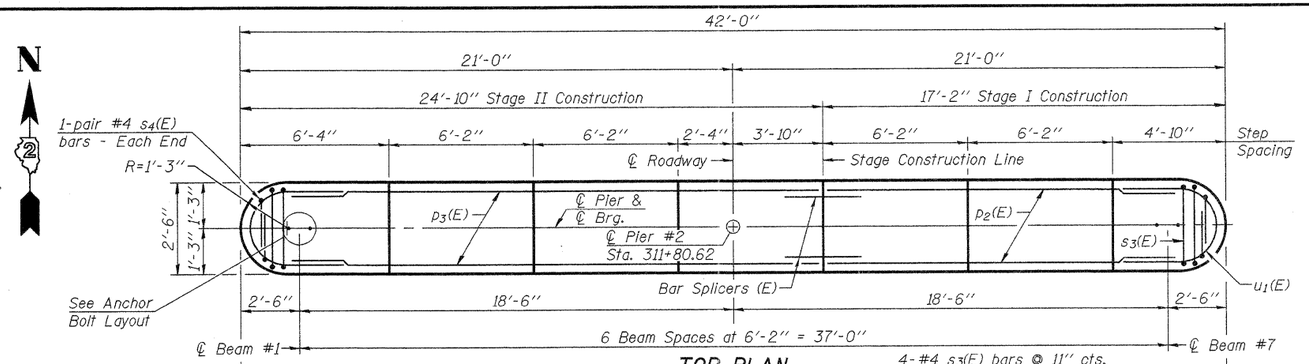
FILE NAME = 0522081-64D57.DGN	DESIGNED - A.R.K.	REVISED -
USER NAME = S.A.P.	CHECKED - J.A.M.	REVISED -
PLOT SCALE =	DRAWN - S.A.P.	REVISED -
PLOT DATE = 06/10/11	CHECKED - A.R.K. & J.A.M.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

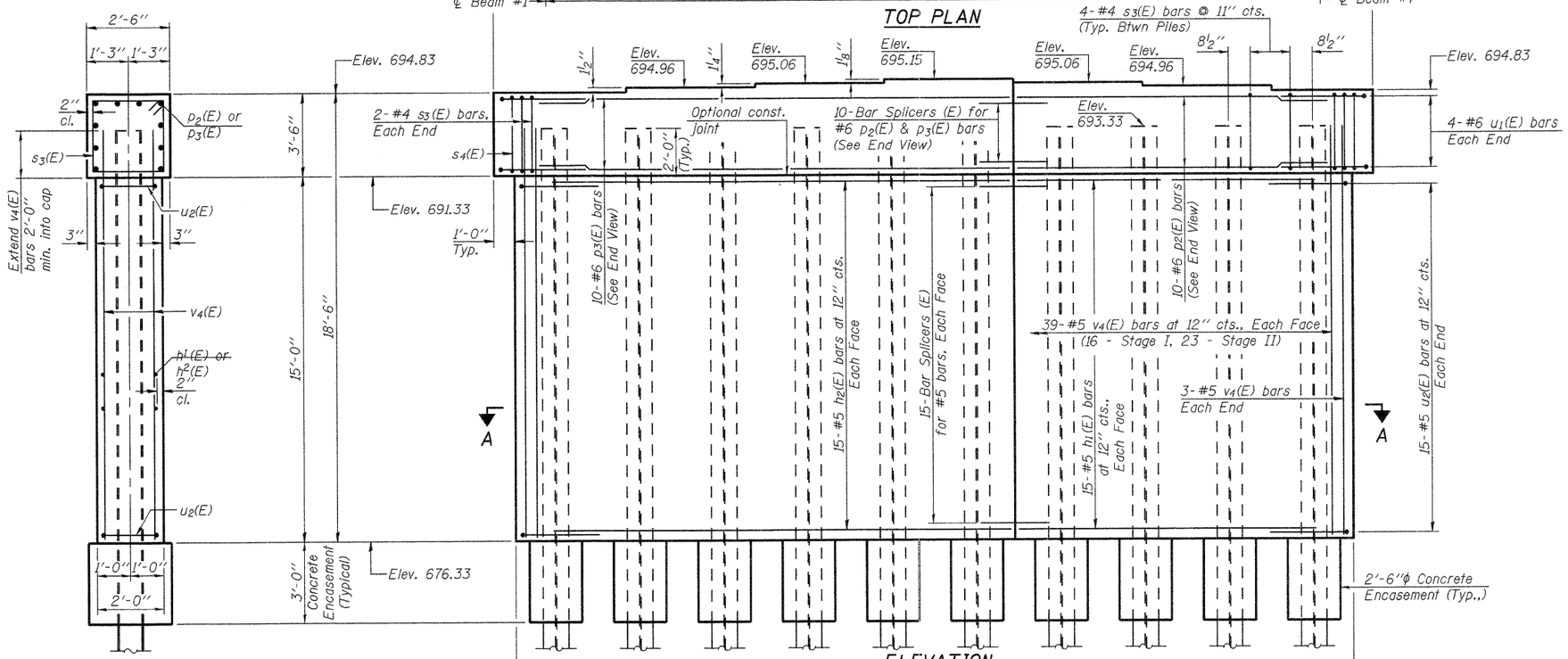
PIER NO. 1
STRUCTURE NO. 052-0081
SHEET NO. 24 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-6	LEE	216	86
		CONTRACT NO. 64D57		
	ILLINOIS	FED. AID PROJECT		

Notes:
If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles and concrete encasement, see sheet 26 of 30.

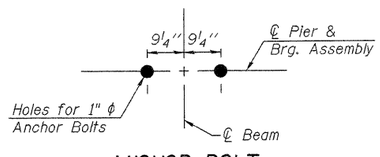


TOP PLAN

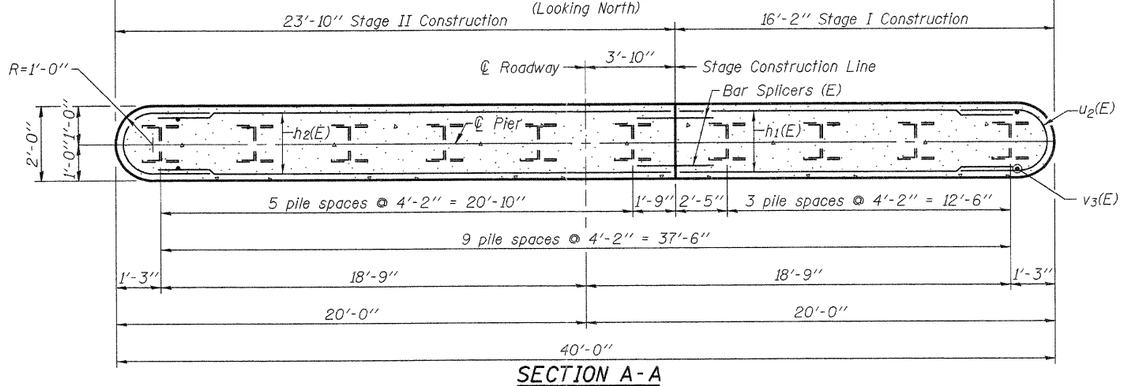


END VIEW

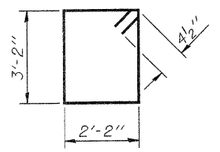
ELEVATION
(Looking North)



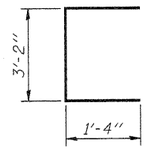
ANCHOR BOLT LAYOUT



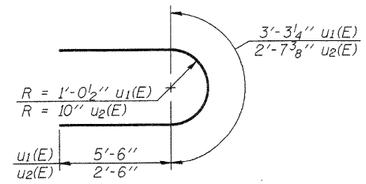
SECTION A-A



BAR s3(E)



BAR s4(E)



BARS u1(E) & u2(E)

PILE DATA

Type:	HP14x73
Nominal Required Bearing:	290 k
Factored Resistance Available:	157 k
Est. Length:	86 ft.
No. Production Piles:	9
No. Test Piles:	1

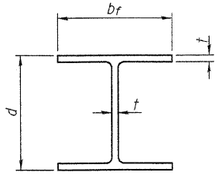
PIER #2
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	30	#5	14'-11"	——
h2(E)	30	#5	22'-7"	——
p2(E)	10	#6	15'-8"	——
p3(E)	10	#6	23'-4"	——
s3(E)	40	#4	11'-5"	□
s4(E)	4	#4	5'-10"	⊏
u1(E)	8	#6	14'-3"	⊃
u2(E)	30	#5	7'-8"	⊃
v4(E)	84	#5	16'-10"	——
Structure Excavation			Cu. Yd.	71
Concrete Structures			Cu. Yd.	58.0
Reinforcement Bars, Epoxy Coated			Pound	3,970
Furnishing Steel Piles, HP14x73			Foot	774
Driving Piles			Foot	774
Test Piles, Steel HP14x73			Each	1
Concrete Encasement			Cu. Yd.	5.5
Underwater Structure Excavation Protection, Location 2			Each	1

For details of Bar Splicers, See Sheet 27 of 30.

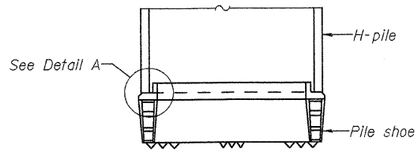
Steel H-Piles shall be according to AASHTO M270 Grade 50.

PC-1 7-1-10

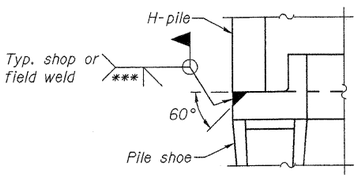


STEEL PILE TABLE

Designation	Depth d	Flange width b_f	Web and Flange thickness t	Encasement diameter A
HP 14x117	$14\frac{1}{4}''$	$14\frac{7}{8}''$	$\frac{13}{16}''$	30″
x102	14″	$14\frac{3}{4}''$	$\frac{11}{16}''$	30″
x89	$13\frac{7}{8}''$	$14\frac{3}{4}''$	$\frac{5}{8}''$	30″
x73	$13\frac{5}{8}''$	$14\frac{5}{8}''$	$\frac{1}{2}''$	30″
HP 12x84	$12\frac{1}{4}''$	$12\frac{1}{4}''$	$\frac{11}{16}''$	24″
x74	$12\frac{1}{8}''$	$12\frac{1}{4}''$	$\frac{5}{8}''$	24″
x63	12″	$12\frac{1}{8}''$	$\frac{1}{2}''$	24″
x53	$11\frac{3}{4}''$	12″	$\frac{7}{16}''$	24″
HP 10x57	10″	$10\frac{1}{4}''$	$\frac{9}{16}''$	24″
x42	$9\frac{3}{4}''$	$10\frac{1}{8}''$	$\frac{7}{16}''$	24″
HP 8x36	8″	$8\frac{1}{8}''$	$\frac{7}{16}''$	18″

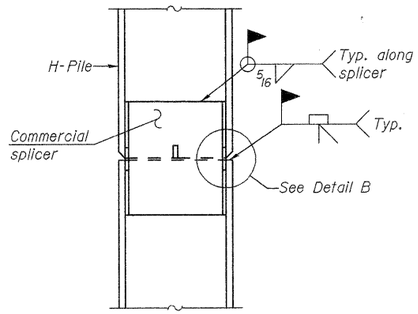


ELEVATION

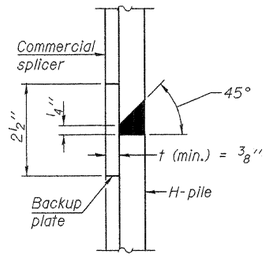


DETAIL A

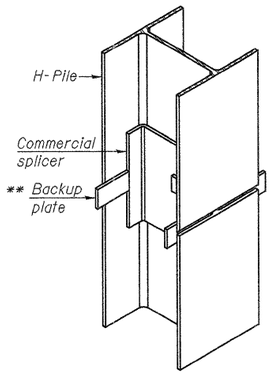
H-PILE SHOE ATTACHMENT



ELEVATION

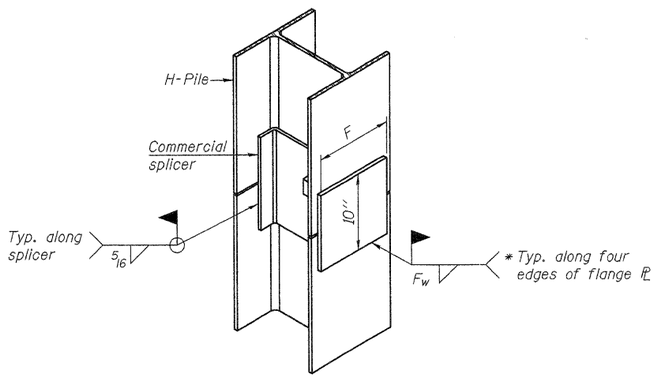


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



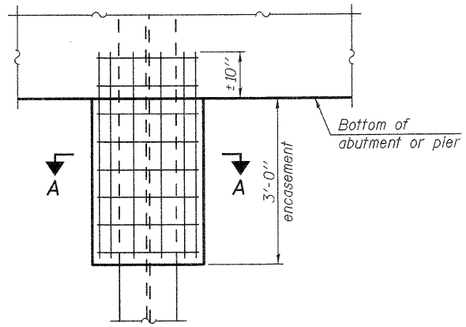
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

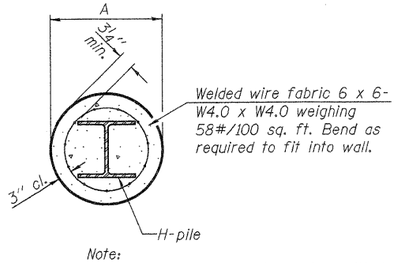
* Interrupt welds ¼″ from end of web and/or each flange.

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

*** Weld size per pile shoe manufacturer ($\frac{5}{16}''$ min.).



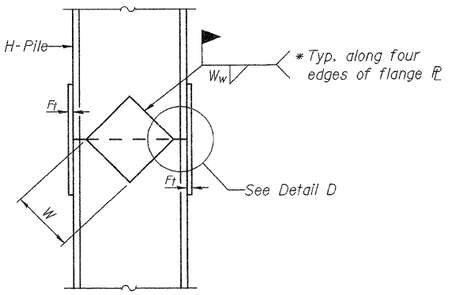
ELEVATION



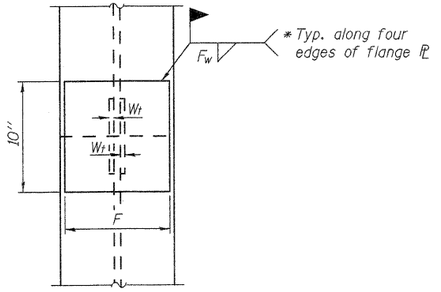
Note:
Forms for encasement may be omitted when soil conditions permit.

SECTION A-A

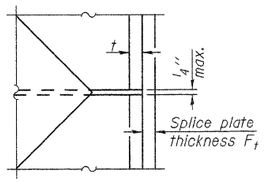
PILE ENCASEMENT



ELEVATION



END VIEW



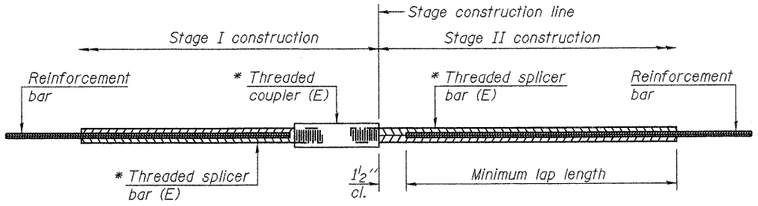
DETAIL D

Designation	F	F_t	F_w	W	W_t	W_w
HP 14x117	$12\frac{1}{2}''$	1″	$\frac{7}{8}''$	$7\frac{3}{4}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x102	$12\frac{1}{2}''$	$\frac{7}{8}''$	$\frac{3}{4}''$	$7\frac{3}{4}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x89	$12\frac{1}{2}''$	$\frac{3}{4}''$	$\frac{11}{16}''$	$7\frac{3}{4}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x73	$12\frac{1}{2}''$	$\frac{5}{8}''$	$\frac{9}{16}''$	$7\frac{3}{4}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
HP 12x84	10″	$\frac{7}{8}''$	$\frac{11}{16}''$	$6\frac{1}{2}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x74	10″	$\frac{7}{8}''$	$\frac{11}{16}''$	$6\frac{1}{2}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x63	10″	$\frac{5}{8}''$	$\frac{1}{2}''$	$6\frac{1}{2}''$	$\frac{1}{2}''$	$\frac{3}{8}''$
x53	10″	$\frac{5}{8}''$	$\frac{1}{2}''$	$6\frac{1}{2}''$	$\frac{1}{2}''$	$\frac{3}{8}''$
HP 10x57	8″	$\frac{3}{4}''$	$\frac{9}{16}''$	$5\frac{1}{4}''$	$\frac{1}{2}''$	$\frac{3}{8}''$
x42	8″	$\frac{5}{8}''$	$\frac{9}{16}''$	$5\frac{1}{4}''$	$\frac{1}{2}''$	$\frac{3}{8}''$
HP 8x36	7″	$\frac{5}{8}''$	$\frac{7}{16}''$	$4\frac{1}{4}''$	$\frac{1}{2}''$	$\frac{3}{8}''$

WELDED PLATE FIELD SPLICE

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

F-HP 7-1-10



STANDARD BAR SPLICER ASSEMBLY

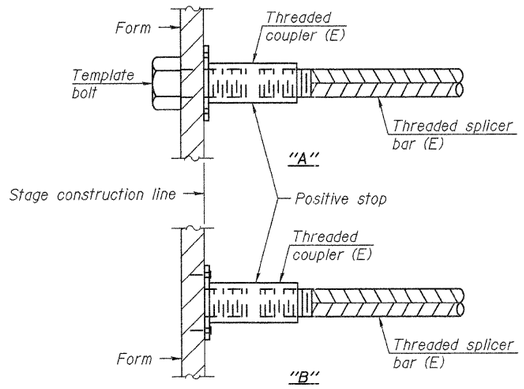
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

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

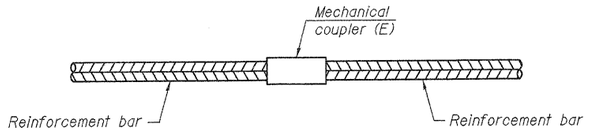
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#5	489	3
Appr. Slabs	#4	50	4
Appr. Slabs	#5	92	3
Appr. Slab Ftgs.	#5	80	3
Abut. Caps	#7	24	4
Abut Diaphragms	#6	16	4
Pier Caps	#6	20	4
Pier Enc. Wall	#5	62	4



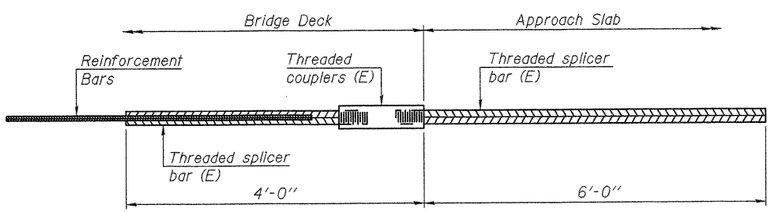
INSTALLATION AND SETTING METHODS

"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.



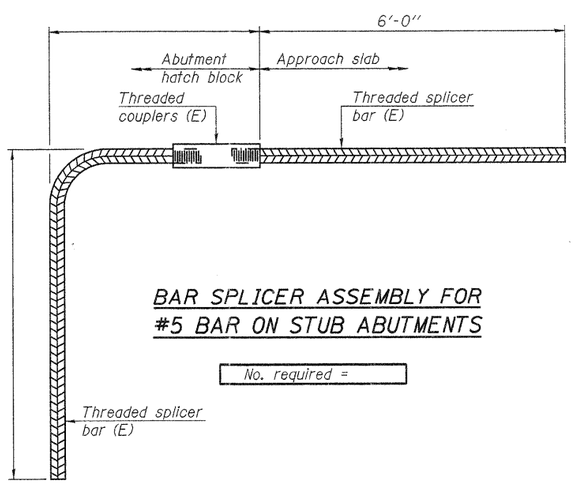
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



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

No. required = 94



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

FEHR–GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS

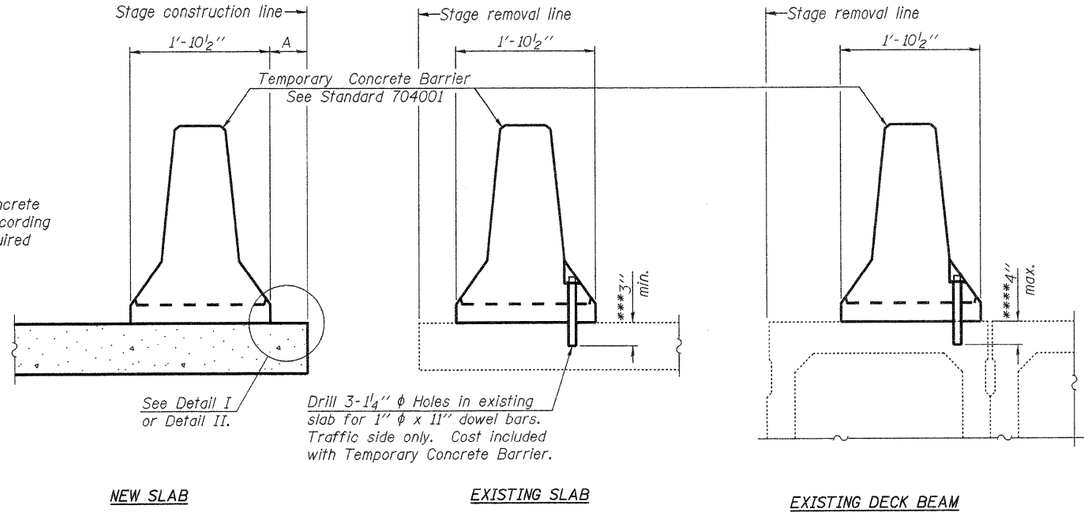
FILE NAME = 052008I-64D57.DGN	DESIGNED - A.R.K.	REVISED -
USER NAME = S.A.P.	CHECKED - J.A.M.	REVISED -
PLOT SCALE =	DRAWN - S.A.P.	REVISED -
PLOT DATE = 08/10/11	CHECKED - A.R.K. & J.A.M.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 052-0081
SHEET NO. 27 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-6	LEE	216	89
		CONTRACT NO. 64D57		
	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 ℄ 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 ℄ 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.

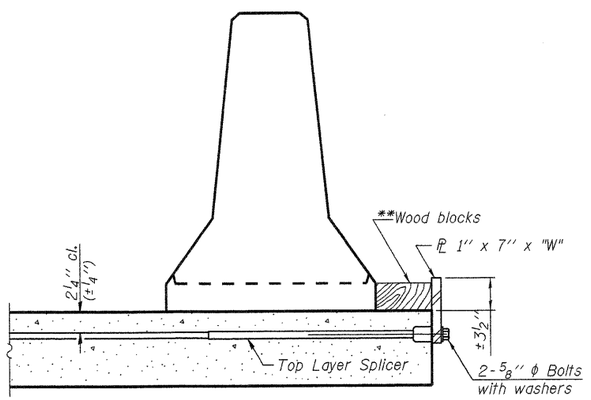
Cost of anchorage is included with Temporary Concrete Barrier.

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.

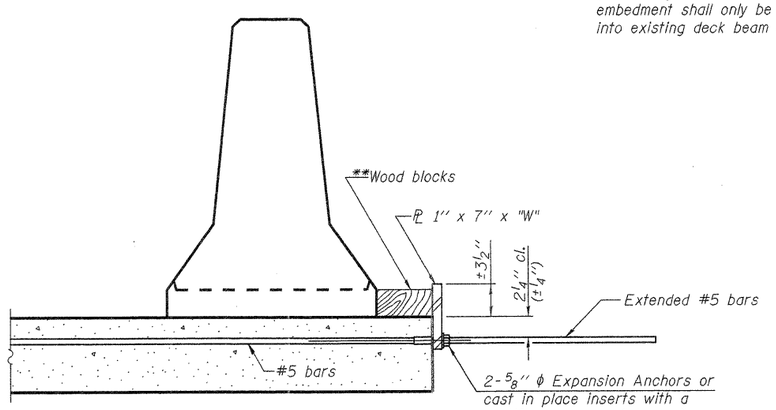
SECTIONS THRU SLAB OR DECK BEAM

*** 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.



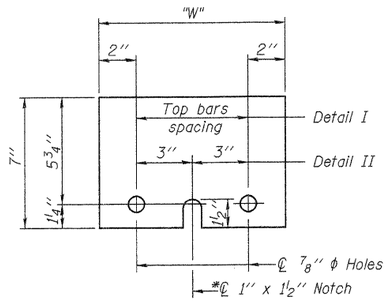
DETAIL I



DETAIL II

** 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''



STEEL RETAINER ℄ 1'' x 7'' x "W"

* Required only with Detail II

R-27 7-1-10

FEHR–GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS	FILE NAME = 052081-64D57.DGN	DESIGNED - A.R.K.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION STRUCTURE NO. 052–0081
	USER NAME = S.A.P.	CHECKED - J.A.M.	REVISED -		SHEET NO. 28 OF 30 SHEETS
	PLOT SCALE =	DRAWN - S.A.P.	REVISED -		
	PLOT DATE = 08/10/11	CHECKED - A.R.K. & J.A.M.	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-6	LEE	216	90
		CONTRACT NO. 64D57		
	ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SN 052-0026

SOIL BORING LOG

Date 9/13/07

ROUTE FAP 316 DESCRIPTION P92-108-07 IL 26 Bridge over Green River, 1.4 m. N. of Union Road LOGGED BY W. Garza

SECTION 102 BR-5 & 6 LOCATION E. Grove Twp. - 3 NW, SEC. , TWP. , RNG.

COUNTY Lee DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO.
Station 311+60

BORING NO. B-1b
Station 312+27
Offset 53.00ft Rt CL
Ground Surface Elev. 91.50 ± ft

Surface Water Elev. 82.00 ft [680.6]
Stream Bed Elev. 80.50 ft [679.0]
Groundwater Elev.:
First Encounter 81.5 ft ▼
Upon Completion Wash ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
		0.2 P	11.0	VERY SOFT dark brown SANDY LOAM [690.1]
89.50				
	3			MEDIUM tan fine SAND
	5			
87.50	6			
-5				
	2			LOOSE tan fine moist SAND
	2			
[683.6] = 85.00	3			
	0			VERY LOOSE gray moist dirty SAND
	0			
82.50	1			
▼-10				
	3			LOOSE gray fine SAND
	3			
[678.6] = 80.00	4			
FL. [677.3]	5			MEDIUM gray SAND & GRAVEL
	6			
77.50	5			
-15				
	7			MEDIUM gray clean medium coarse SAND
	9			
[673.6] = 75.00	12			
	3			Wash LOOSE gray fine SAND
	3			
72.50	6			
[670.1] = -20				
	5			Wash MEDIUM gray SAND & GRAVEL
[668.6] = 70.00	7			
	8			
	6			Wash MEDIUM gray SAND & GRAVEL
67.50	7			
-25				
	9			Wash MEDIUM gray clean medium coarse SAND
	7			
[663.6] = 65.00	10			
	8			Wash MEDIUM gray SAND & medium GRAVEL
	8			
62.50	12			
-30				
	11			Wash MEDIUM gray SAND & medium GRAVEL
	12			
[658.6] = 60.00	12			
	12			Wash MEDIUM gray SAND & medium GRAVEL
	11			
57.50	13			
-35				
	7			Wash MEDIUM gray SAND & medium GRAVEL
	9			
[653.6] = 55.00	12			
	9			Wash MEDIUM gray SAND & medium GRAVEL
	8			
52.50	12			
[650.1]				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
[Note Boring BM Elev 100.00 @ ℄ Crossing 2 = 698.6 Project Survey Datum]

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Date 9/13/07

ROUTE FAP 316 DESCRIPTION P92-108-07 IL 26 Bridge over Green River, 1.4 m. N. of Union Road LOGGED BY W. Garza

SECTION 102 BR-5 & 6 LOCATION E. Grove Twp. - 3 NW, SEC. , TWP. , RNG.

COUNTY Lee DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO.
Station 311+60

BORING NO. B-1b
Station 312+27
Offset 53.00ft Rt CL
Ground Surface Elev. 91.50 ft

Surface Water Elev. 82.00 ft
Stream Bed Elev. 80.50 ft
Groundwater Elev.:
First Encounter 81.5 ft ▼
Upon Completion Wash ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
	12			Wash [650.1]
	11			MEDIUM gray clean medium coarse SAND
[648.6] = 50.00	12			
	8			Wash MEDIUM gray clean medium coarse SAND
47.50	12			
-45				
	6			Wash MEDIUM gray clean medium coarse SAND
	9			
[643.6] = 45.00	13			
	7			Wash MEDIUM gray SAND & medium GRAVEL
	8			
42.50	12			
-60				
	8			Wash MEDIUM/DENSE gray SAND & medium GRAVEL
	13			
[638.6] = 40.00	17			
	11			Wash MEDIUM gray SAND & medium GRAVEL
	12			
37.50	16			
-55				
	10			Wash DENSE gray SAND & medium GRAVEL
	16			
[633.6] = 35.00	19			
	15			Wash DENSE gray SANDY coarse TILL
	19			
[631.1] = 32.50	24			
[630.7] = -60				
	14			Wash DENSE light gray SANDY LOAM TILL
	12		6.0	
[628.6] = 30.00	20			
	10			Wash DENSE light gray fine SAND with SILT lens
	12			
27.50	21			
-65				
	7			Wash DENSE gray SAND with medium GRAVEL
	19			
[623.6] = 25.00	20			
				End of Boring
-70				
-75				
-80				

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

BBS, from 137 (Rev. 8-99)

FEHR–GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS

FILE NAME = 0520081-64D57.DGN	DESIGNED - A.R.K.	REVISED -	
USER NAME = S.A.P.	CHECKED - J.A.M.	REVISED -	
PLOT SCALE =	DRAWN - S.A.P.	REVISED -	
PLOT DATE = 08/12/11	CHECKED - A.R.K. & J.A.M.	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 052–0081
SHEET NO. 29 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102BR-6	LEE	216	91
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			

SN 052-0026

Illinois Department of Transportation
Division of Highways
Illinios Department of Transportation/D-2

SOIL BORING LOG

Date 9/18/07

ROUTE FAP 316 DESCRIPTION P92-108-07 IL 26 Bridge over Green River; 1.4 m. N. of Union Road LOGGED BY W. Garza

SECTION 102 BR-5 & 6 LOCATION E. Grove Twp. - 3 NW, SEC. , TWP. , RNG.

COUNTY Lee DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. ____
Station ____

BORING NO. B-2b
Station 310+80
Offset 47.00ft Lt CL
Ground Surface Elev. 89.00 ft

Surface Water Elev. 82.00 ft [680.6]
Stream Bed Elev. 80.50 ft =[679.1]

Groundwater Elev.:
First Encounter 81.5 ft ▼
Upon Completion Wash ft
After ___ Hrs. ___ ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM dark gray LOAM [687.6]				0.5 P	11.0
	86.50				
MEDIUM tan fine SAND			6		
			6		
	[683.6]= 85.00		6		
LOOSE tan moist fine SAND		-5	2		
			2		
	82.50		5		
LOOSE gray clean medium coarse SAND		▼	2		
			3		
	[678.6]= 80.00		5		
MEDIUM gray clean medium coarse SAND FL [677.3]		-10	2		
			4		
	77.50		8		
LOOSE gray fine SAND			3		
			4		
	[673.6]= 75.00		5		
Wash MEDIUM gray clean medium coarse SAND		-15	4		
			4		
	72.50		8		
Wash MEDIUM gray clean medium coarse SAND with GRAVEL			5		
			7		
	70.00		7.		
	[667.6] =	-20			

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Wash MEDIUM gray SAND & GRAVEL			6		
			8		
	67.50		9		
	[663.6] = 65.00				
Wash MEDIUM gray SAND & medium GRAVEL		-25	7		
			6		
	62.50		9		
	[658.6] = 60.00				
Wash MEDIUM gray SAND & medium GRAVEL		-30	11		
			13		
	57.50		16		
	[653.6] = 55.00				
Wash MEDIUM gray clean medium coarse SAND		-35	7		
			12		
	52.50		10		
	50.00				
	[647.6] =	-40			

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

Note Boring BM Elev 100.00 @ ℄ Crown - Span 2 = survey Datum 698.6

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinios Department of Transportation/D-2

SOIL BORING LOG

Date 9/18/07

ROUTE FAP 316 DESCRIPTION P92-108-07 IL 26 Bridge over Green River, 1.4 m. N. of Union Road LOGGED BY W. Garza

SECTION 102 BR-5 & 6 LOCATION E. Grove Twp. - 3 NW, SEC. , TWP. , RNG.

COUNTY Lee DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. ____
Station ____

BORING NO. B-2b
Station 310+80
Offset 47.00ft Lt CL
Ground Surface Elev. 89.00 ft

Surface Water Elev. 82.00 ft
Stream Bed Elev. 80.50 ft

Groundwater Elev.:
First Encounter 81.5 ft ▼
Upon Completion Wash ft
After ___ Hrs. ___ ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Wash [647.6] MEDIUM gray clean medium coarse SAND			11		
			14		
	47.50		13		
	[643.6] = 45.00				
Wash MEDIUM gray SAND & GRAVEL		-45	9		
			11		
	42.50		12		
	[638.6]= 40.00				
Wash DENSE gray SAND & GRAVEL		-50	18		
			17		
	37.50		16		
	[633.6]= 35.00				
Wash MEDIUM gray clean medium coarse SAND		-55	12		
			13		
	32.50		14		
	[628.6]= 30.00				
	[627.6]	-60			

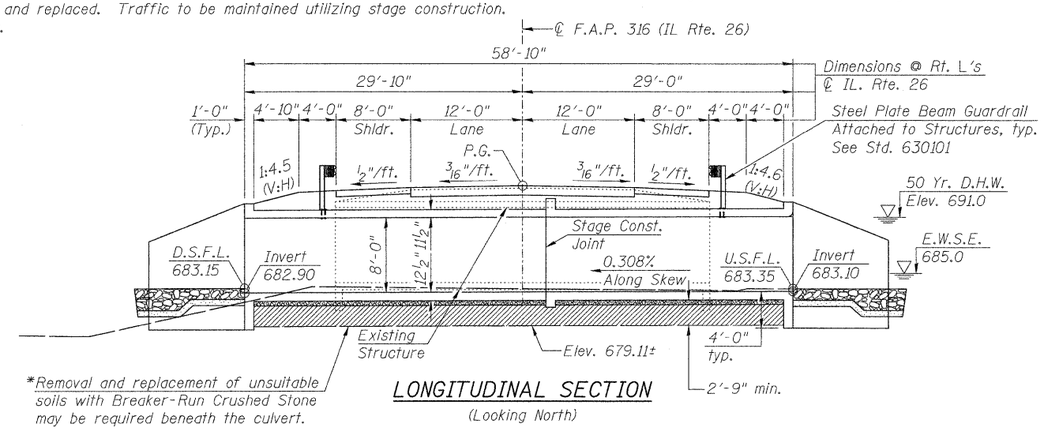
Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
DENSE gray dirty SAND with medium GRAVEL			11		
			32		
	27.50		41		
Wash VERY DENSE gray fine SAND with bottom 3" CLAY LOAM TILL			26		
			40		9.0
	[623.6]= 25.00		35		
Wash VERY DENSE gray SANDY LOAM TILL		-65	11		
			23		10.0
	[621.1] = 22.50		32		
End of Boring					
		-70			
		-75			
		-80			

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

BBS, from 137 (Rev. 8-99)

FEHR-GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS	FILE NAME = 0520081-64D57.DGN	DESIGNED - A.R.K.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS STRUCTURE NO. 052-0081	F.A.P. RTE. 316	SECTION 102BR-6	COUNTY LEE	TOTAL SHEETS 216	SHEET NO. 92
	USER NAME = S.A.P.	CHECKED - J.A.M.	REVISED -					CONTRACT NO. 64D57		
	PLOT SCALE =	DRAWN - S.A.P.	REVISED -							
	PLOT DATE = 08/10/11	CHECKED - A.R.K. & J.A.M.	REVISED -		SHEET NO. 30 OF 30 SHEETS	ILLINOIS FED. AID PROJECT				

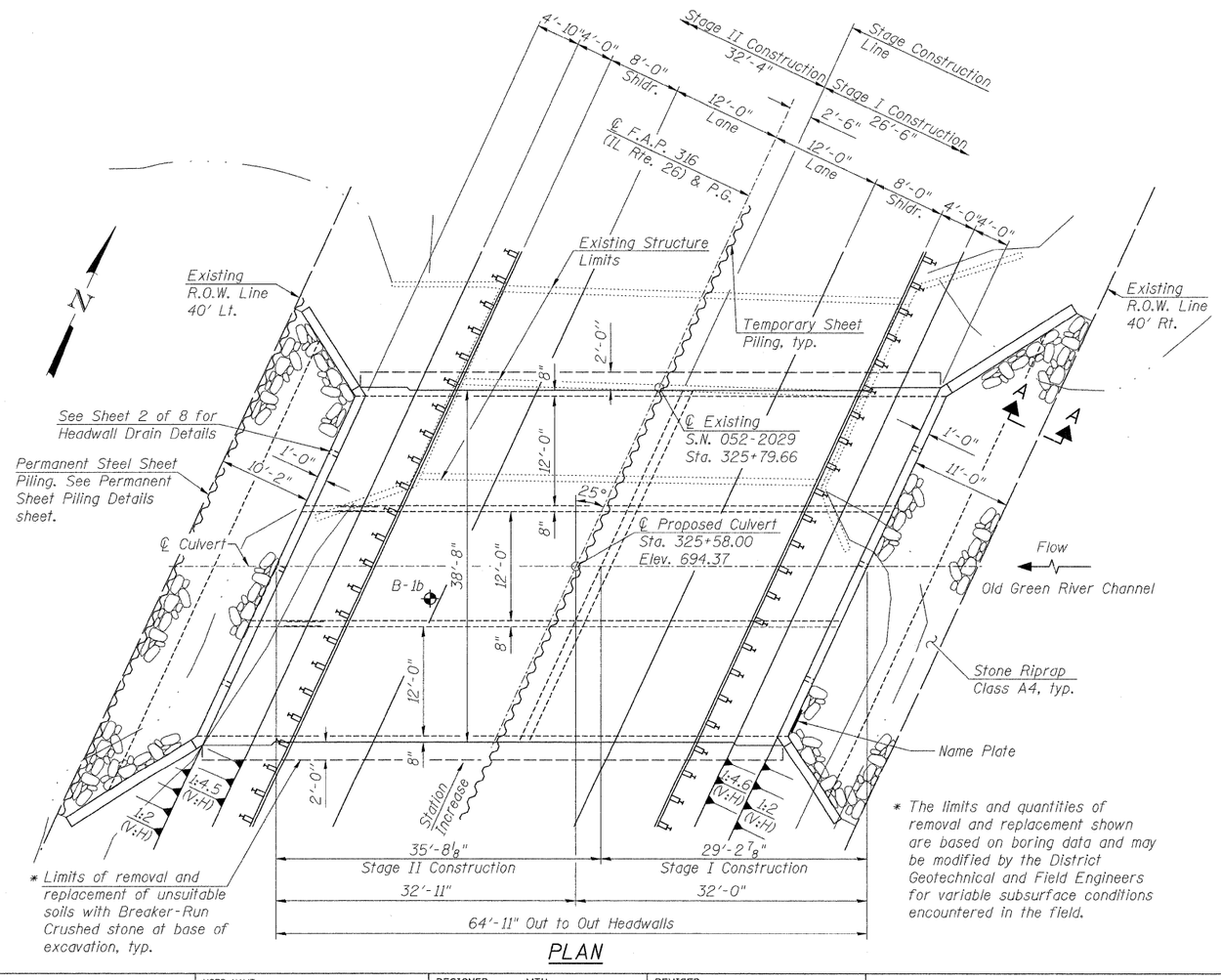
Bench Mark: Survey Pt. #403 on west parapet in north span of S.N. 052-0026, 17' Lt. Sta. 312+08.83, Elev.700.35
Existing Structure: S.N. 052-2029, built in 1928 as Section 102, SBI Route 89 at Sta. 325+79.66 (New Survey); R.C. Double 10' x 8' Box Culvert. 23'-0" back to back ext. barrel walls, 40'-2" face to face rails. 45'-8" out to out Headwalls (along skew); Skew 24° ahead right. Structure to be removed and replaced. Traffic to be maintained utilizing stage construction.
No Salvage.



*Removal and replacement of unsuitable soils with Breaker-Run Crushed Stone may be required beneath the culvert.

LONGITUDINAL SECTION

(Looking North)



* Limits of removal and replacement of unsuitable soils with Breaker-Run Crushed stone at base of excavation, typ.

* The limits and quantities of removal and replacement shown are based on boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

PLAN

WATERWAY INFORMATION

Existing Low Grade Elev. 694.02 @ Sta. 328+50
Drainage Area = 229.8 Sq. Mi. Proposed Low Grade Elev. 694.03 @ Sta. 329+00

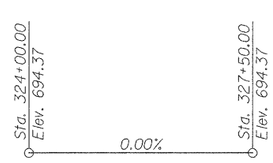
Flood	Frequency Year		Discharge cfs Exist.	Discharge cfs Prop.	Waterway Opening - ft² Exist.	Waterway Opening - ft² Prop.	Nat. H.W.E.	Head - ft. Exist.	Head - ft. Prop.	Headwater Elev. - ft. Exist.	Headwater Elev. - ft. Prop.
-	10-Year	052-2001	197	184	122	122					
		052-0081	4274	3571	780	872					
		052-2031	569	1285	120	248					
		TOTAL	5040	5040	1022	1242	690.0	0.2	0.2	690.2	690.2
Design	50-Year	052-2001	506	482	149	149					
		052-0081	5677	4891	880	1014					
		052-2031	757	1567	140	284					
		TOTAL	6940	6940	1169	1447	691.0	0.4	0.3	691.4	691.3
Base	100-Year	052-2001	591	571	154	154					
		052-0081	6189	5457	900	1042					
		052-2031	870	1622	144	288					
		TOTAL	7650	7650	1198	1484	691.2	0.5	0.4	691.7	691.6
Overtopping		Not Applicable									
Max. Calc	500-Year	052-2001	775	747	163	163					
		052-0081	7378	6577	930	1085					
		052-2031	1007	1836	150	288					
		TOTAL	9160	9160	1243	1536	691.5	0.7	0.7	692.2	692.2

10 Year velocity through: Existing S.N. 052-2001 = 1.1 ft/s
Existing S.N. 052-0026 = 5.3 ft/s
Existing S.N. 052-2029 = 4.7 ft/s

10 Year velocity through: Existing S.N. 052-2001 = 1.1 ft/s
Prop. Bridge S.N. 052-0081 @ S.N. 052-0026 = 4.4 ft/s
Prop. Bridge S.N. 052-2031 @ S.N. 052-2029 = 5.3 ft/s

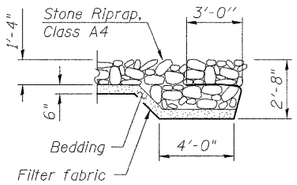
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	679.10	678.90



PROFILE GRADE

(Along ℄ Roadway)



SECTION A-A

INDEX OF SHEETS

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

LOADING HS 20-44

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

DESIGN STRESSES

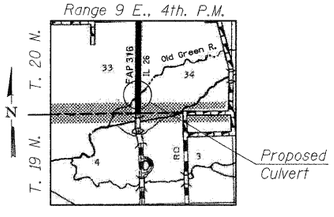
FIELD UNITS

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

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

Michael T. Haley 8-18-11
Michael T. Haley Date
Licensed Structural Engineer
State of Illinois No. 81-5991
Expires 11/30/2012

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
M. Carl Lumpp
ENGINEER OF BRIDGES AND STRUCTURES



LOCATION SKETCH

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 26 OVER OLD GREEN RIVER
F.A.P. RTE 316 - SEC. 102-BR7
LEE COUNTY
STATION 325+58.00
STRUCTURE NO. 052-2031

LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois	USER NAME =	DESIGNED - MTH	REVISED -
	FILE NAME =	CHECKED - KHH	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102-BR7	LEE	216	93
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

GENERAL NOTES

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

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

Precast alternate is not allowed.

The Breaker-Run Crushed Stone shall be capped with 6 in. of CA7 and satisfy the Standard Specifications unless otherwise indicated in the Special Provisions. The capping material shall be paid for as Breaker-Run Crushed Stone.

Attachment of Steel Plate Beam Guardrail, Attached to Structures shall be according to Case IV except that the $1\frac{1}{2}$" ϕ holes in the top slab shall be formed (instead of cored) for the threaded rods.

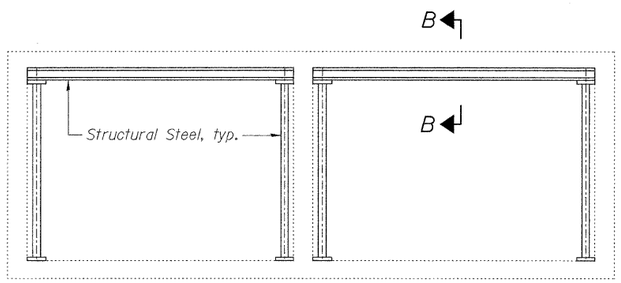
STATION 325+58.00
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RT. 316 SEC. 102-BR7
LOADING HS20-44
STRUCTURE NO. 052-2031

NAME PLATE

See Std. 515001

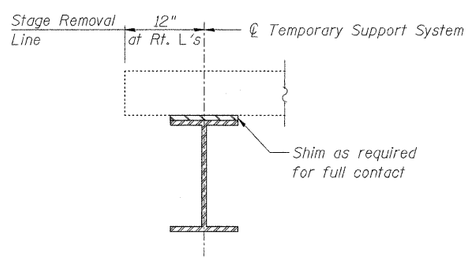
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal and Disposal of Unsuitable Material	Cu. Yd.	302
Stone Riprap, Class A4	Sq. Yd.	123
Filter Fabric	Sq. Yd.	123
Removal of Existing Structures No. 2	Each	1
Reinforcements Bars	Pound	65010
Bar Splicers	Each	196
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	281.8
Steel Plate Beam Guardrail, Attached to Structures	Foot	100
Breaker-Run Crushed Stone	Ton	488
Temporary Sheet Piling	Sq. Ft.	2149
Temporary Support System	L. Sum	1

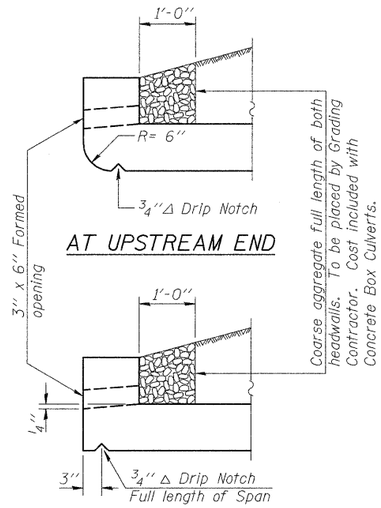


TEMPORARY SUPPORT SYSTEM

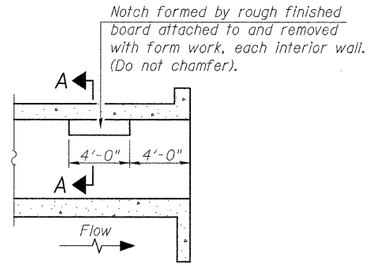
Notes:
1. Place Temporary Support prior to Stage I Removal
2. Place Temporary Support along skew.
3. Temporary Support System shall not be painted.



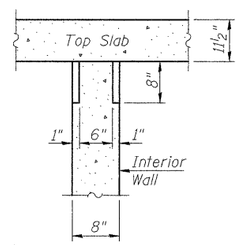
SECTION B-B



DRAIN DETAIL



LONGITUDINAL SECTION



SECTION A-A

PHOEBE NESTING SITE DETAILS

(Downstream End Only)

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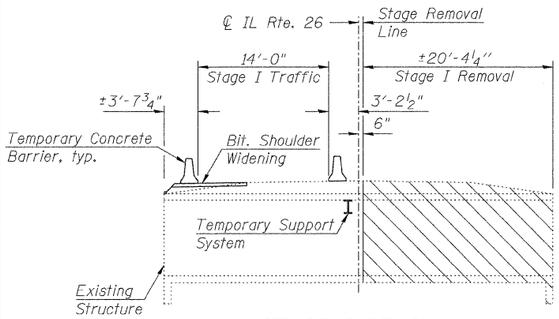
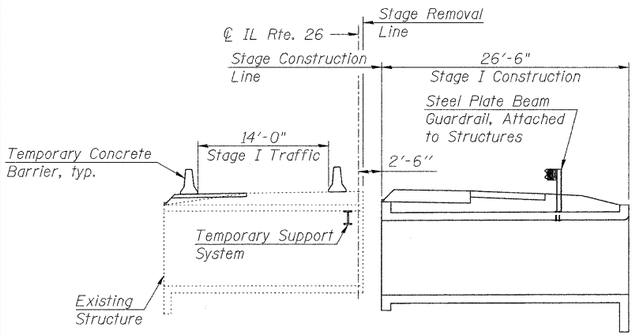
GENERAL DATA
STRUCTURE NO. 052-2031
SHEET NO. 2 OF 9 SHEETS

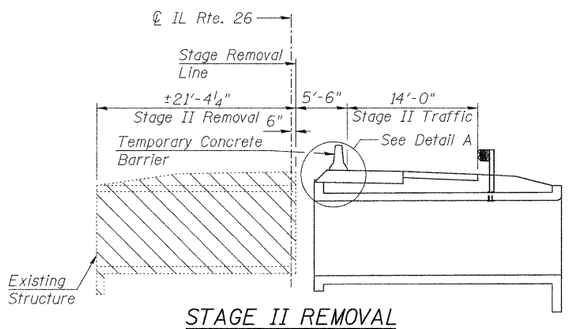
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102-BR7	LEE	216	94
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			



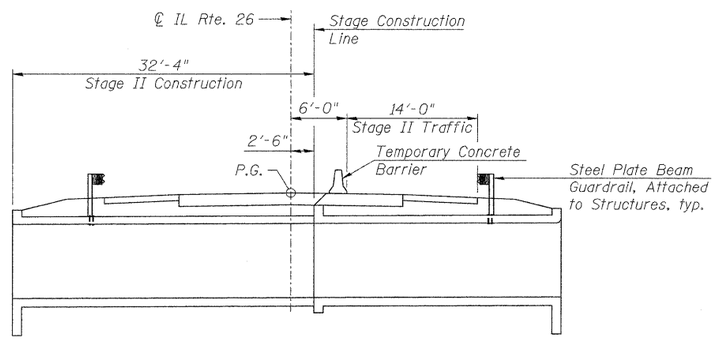
STAGE I REMOVAL



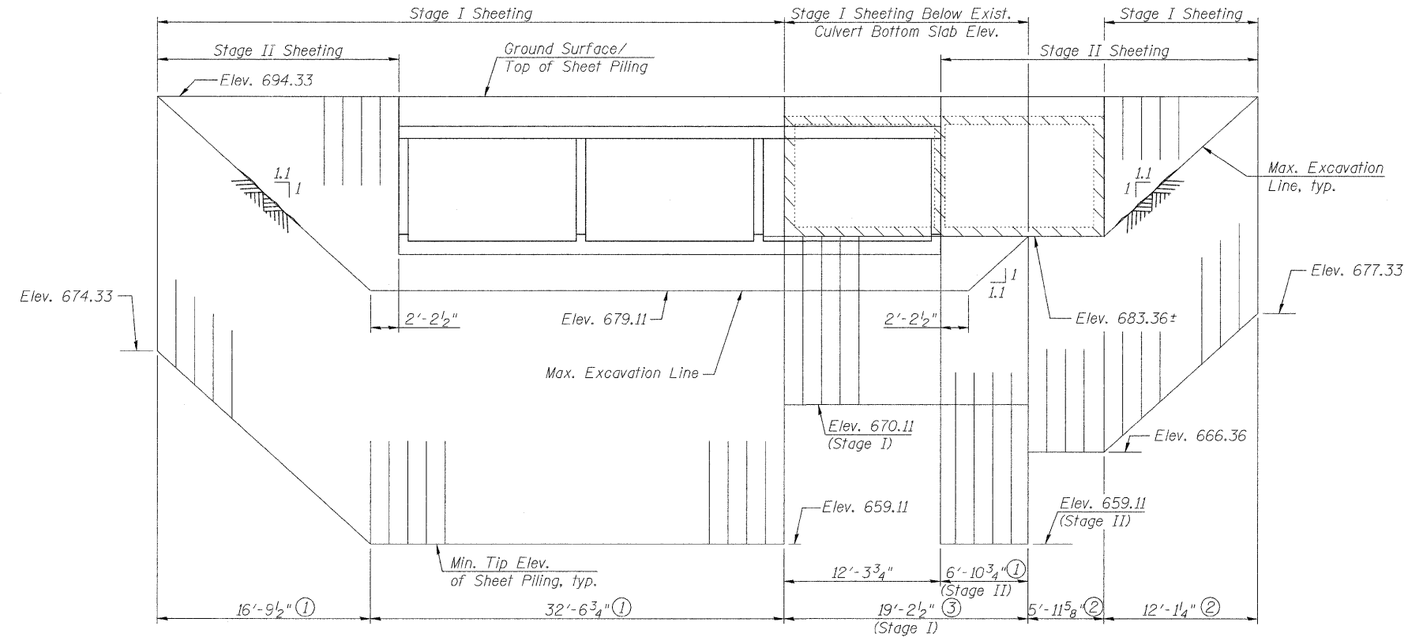
STAGE I CONSTRUCTION



STAGE II REMOVAL



STAGE II CONSTRUCTION



TEMPORARY SHEET PILING

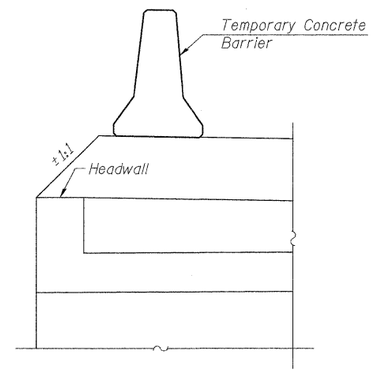
(Looking West-Dimensions along Stage Construction Line)

MIN. SECTION MODULUS

① 41.9 in^3/ft

② 22.1 in^3/ft

③ 2.7 in^3/ft



DETAIL A

Notes:

1. Hatched area indicates Removal of Existing Structures.
2. All staging cross sections are looking north.
3. All dimensions are perpendicular to ℄ Roadway unless noted otherwise.
4. For details of Temporary Concrete Barrier, see Sheet 4 of 8.
5. For quantity of Temporary Concrete Barrier, see Roadway plans.
6. The Contractor shall brace the Breaker-Run Crushed Stone if required during excavation for stage II construction. Cost included with Breaker-Run Crushed Stone.

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

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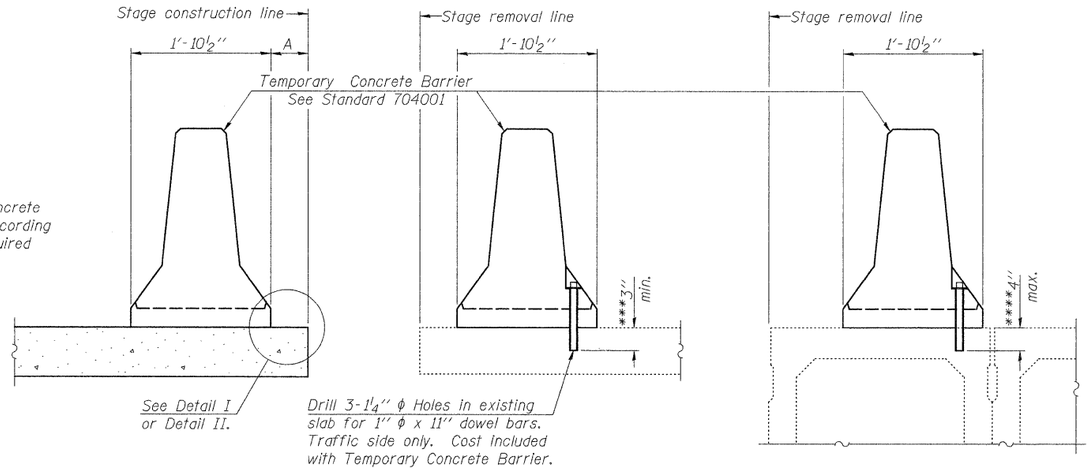
STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 052-2031
SHEET NO. 3 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102-BR7	LEE	216	95
		CONTRACT NO. 64D57		
		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".



NEW SLAB | EXISTING SLAB | EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel ℙ to the top layer of couplers with 2-$\frac{5}{8}$" ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

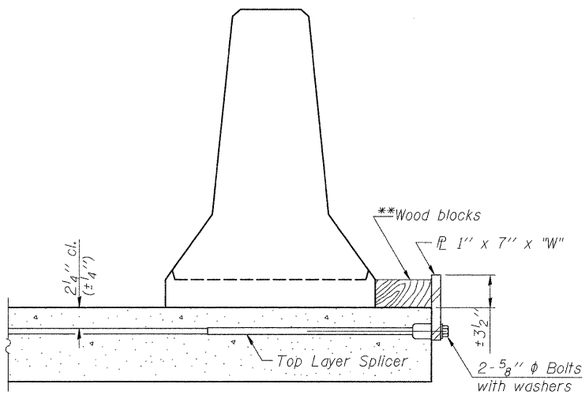
Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel ℙ to the concrete slab or concrete wearing surface with 2-$\frac{5}{8}$" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier.

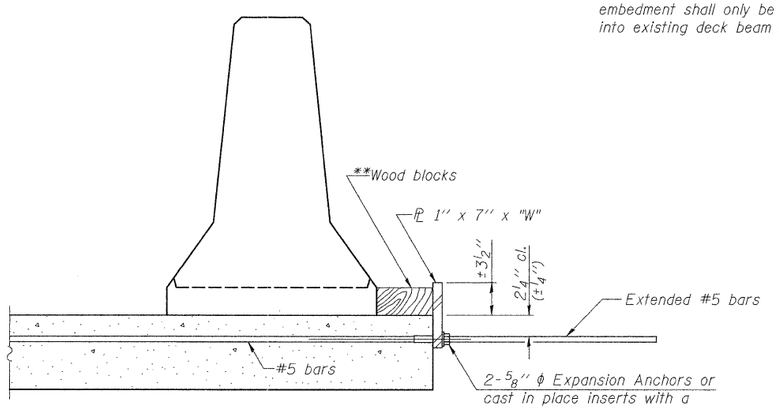
The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

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

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



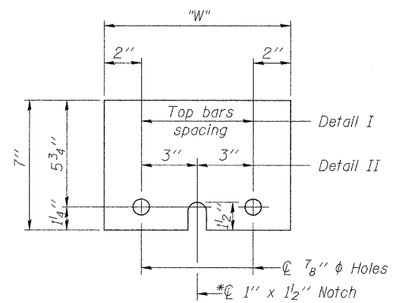
DETAIL I



DETAIL II

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

"W" = Top bars spacing + 4"



STEEL RETAINER ℙ 1" x 7" x "W"

* Required only with Detail II

R-27

7-1-10

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TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 052-2031
SHEET NO. 4 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102-BR7	LEE	216	96
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			

(Back)
4-#8 h_4 bars at 11½" cts. Short Wing
5-#9 h_6 bars at 9" cts. Long Wing
(Front)
9-#8 h_4 bars at 11½" cts. Short Wing
11-#9 h_6 bars at 9" cts. Long Wing

Bend in Field, typ.

13-#9 h_5 bars at 9" cts. Long Wing
10-#8 h_7 bars at 11½" cts. Short Wing
(Back) (Back)

1'-0" 56'-10" ℄ Rdwy. 28'-10" 28'-0"

10-#5 h bars at 10" cts. (Stage I)*
10-#5 h_1 bars at 10" cts. (Stage II)*

* at center of interior walls and inside face of exterior walls

h_2 s 9" a_1 a or a_2 h or h_1 2'-6" 12" h_2 s_1 14" 11½" h_3

76-#5 v bars at 10½" cts. (34 Stage I, 42 Stage II)

76-#5 v_1 bars at 10½" cts. Each wall (34 Stage I, 42 Stage II) Lap with v bars

10 bar splicers for #5 bars Ea. Wall

76-#5 v bars at 10½" cts. at center (34 Stage I, 42 Stage II)

Stage Const. Joint

3"℄ Drains at ±8'-0" cts.

Elev. 683.01 2'-0" 8'-0" Const. Jt. 6" 12½" Elev. 683.10

4'-4" 9'-4½" 13'-8½" 4'-0"

Elev. 682.90 h_2 d a_1 h or h_1 2" cl. h_3 a or a_2 s h_2 9" 12"

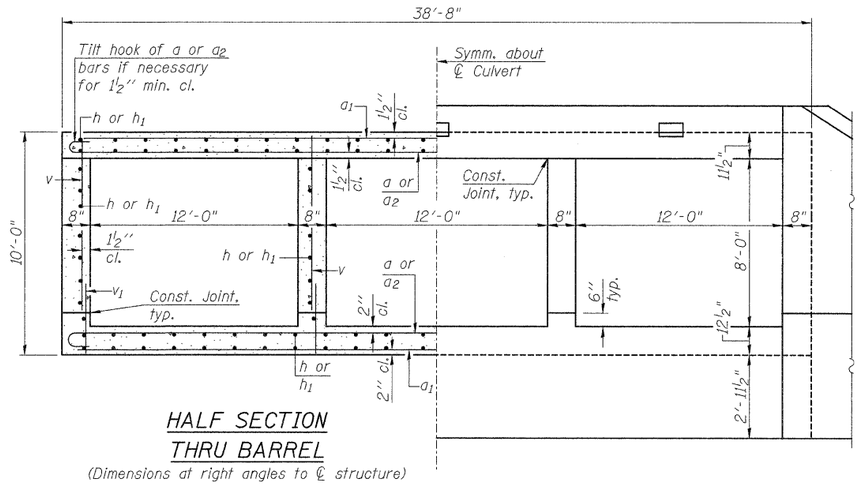
4-#4 v_2 bars Ea. Wing See Plan View (Back) 8"

Stage II Const. Stage I Const.

HALF LONG SECTION
Showing bars in Exterior Wall

HALF ELEVATION
Showing bars in Interior Wall

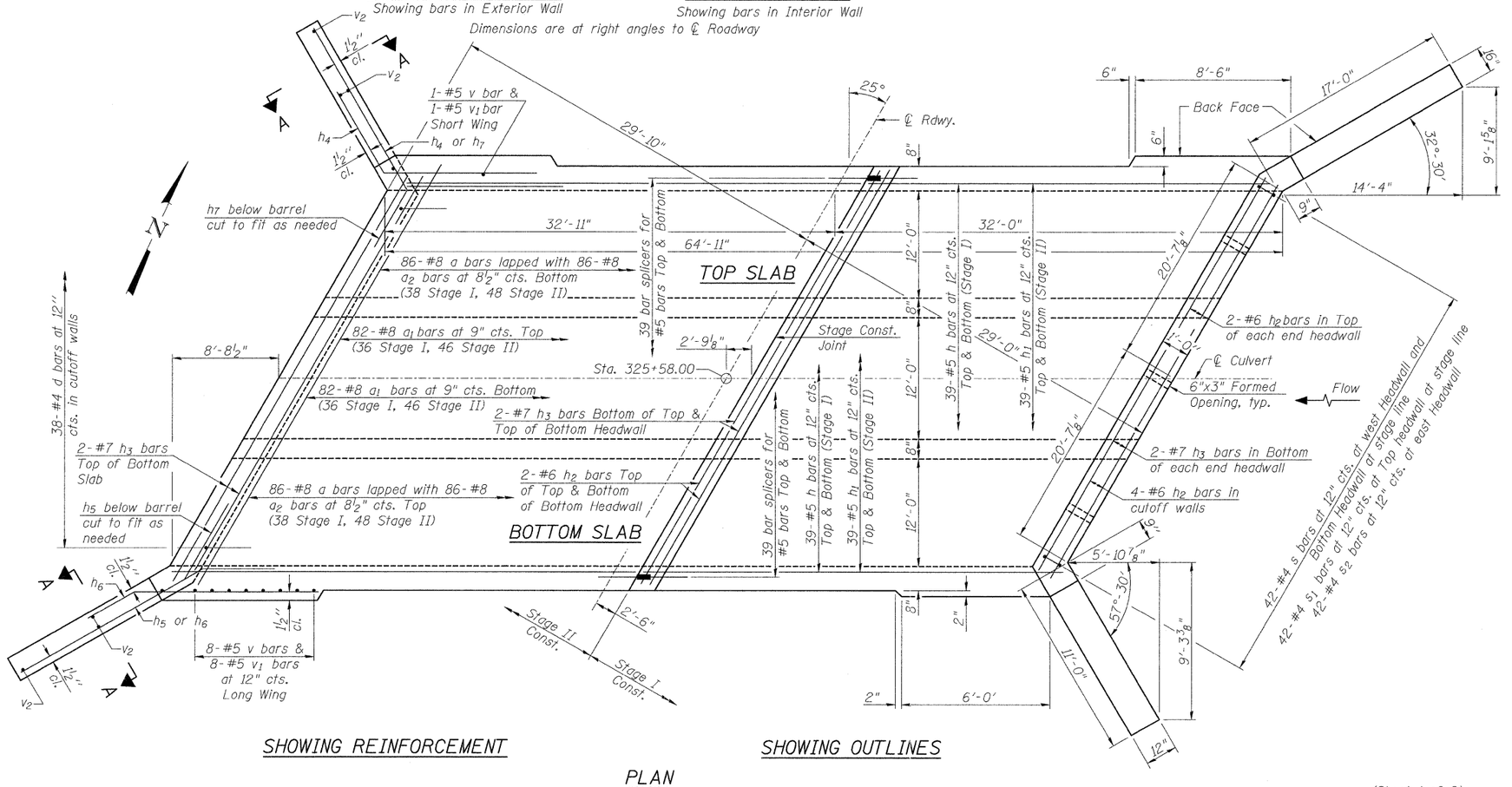
Dimensions are at right angles to ℄ Roadway



HALF SECTION THRU BARREL
(Dimensions at right angles to ℄ structure)

HALF END ELEVATION

Note:
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

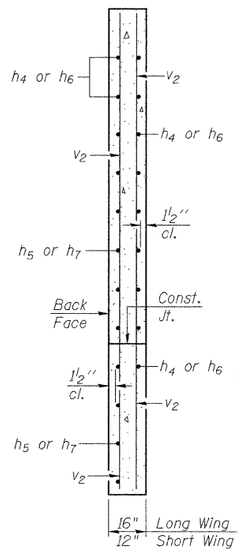


SHOWING REINFORCEMENT

SHOWING OUTLINES

PLAN

MIN. BAR LAP
#8 Bar = 3'-8"



SECTION A-A

(Sheet 1 of 2)

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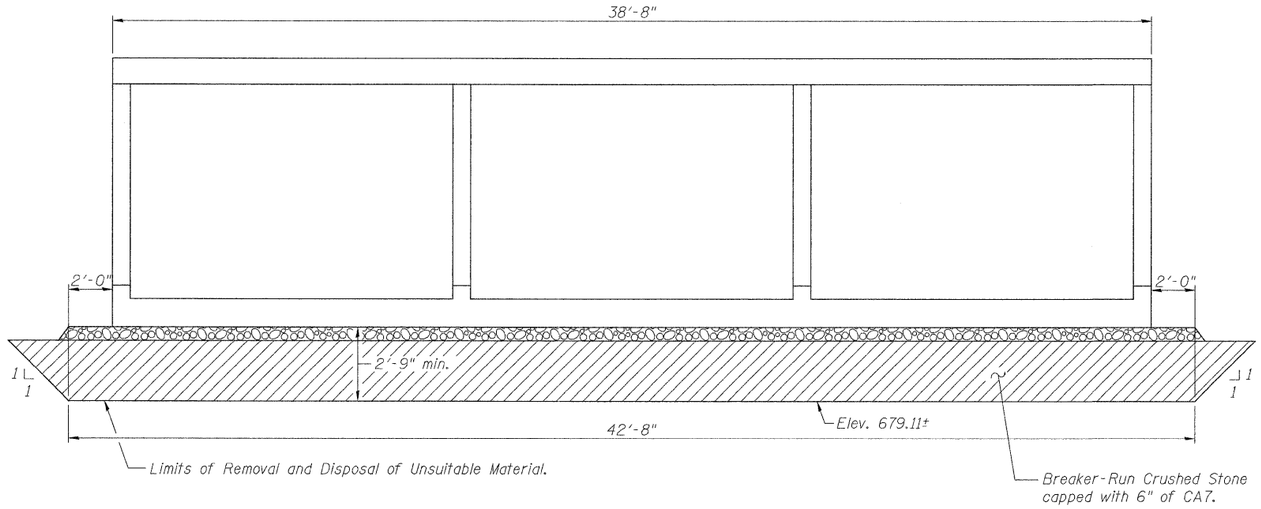
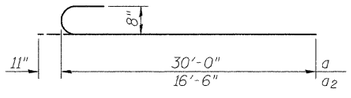
CULVERT DETAILS
STRUCTURE NO. 052-2031
SHEET NO. 5 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102-BR7	LEE	216	97
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

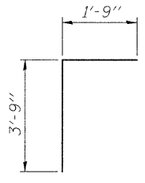


FILL DETAILS

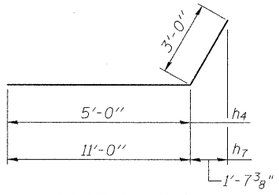
(Dimensions at Rt. L's to ℄ Structure)



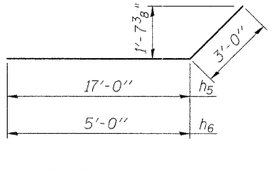
BARS a & a2



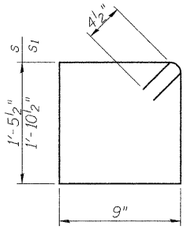
BAR d



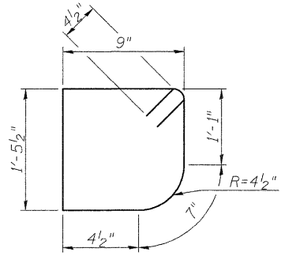
BARS h4 & h7



BARS h5 & h6



BARS s & s1



BARS s2

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	172	#8	30'-11"	C
a_1	164	#8	42'-4"	—
a_2	172	#8	17'-5"	C
d	76	#4	5'-6"	⌐
h	196	#5	29'-0"	—
h_1	196	#5	35'-5"	—
h_2	16	#6	42'-4"	—
h_3	12	#7	42'-4"	—
h_4	26	#8	8'-0"	—
h_5	26	#9	20'-0"	—
h_6	32	#9	8'-0"	—
h_7	20	#8	14'-0"	—
s	84	#4	5'-2"	⌐
s_1	42	#4	6'-0"	⌐
s_2	42	#4	5'-0"	⌐
v	322	#5	8'-2"	—
v_1	322	#5	4'-0"	—
v_2	16	#4	13'-5"	—
Concrete Box Culverts			Cu. Yd.	281.8
Reinforcement Bars			Pound	65010

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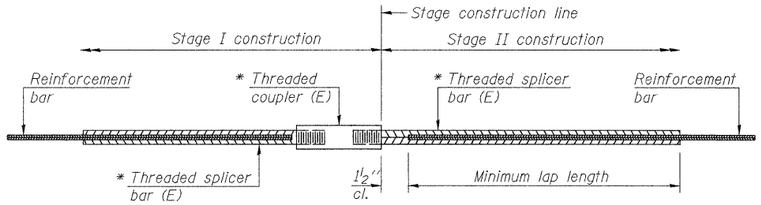
CULVERT DETAILS
STRUCTURE NO. 052-2031
SHEET NO. 6 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102-BR7	LEE	216	98
		CONTRACT NO. 64D57		
	ILLINOIS FED. AID PROJECT			



STANDARD BAR SPLICER ASSEMBLY

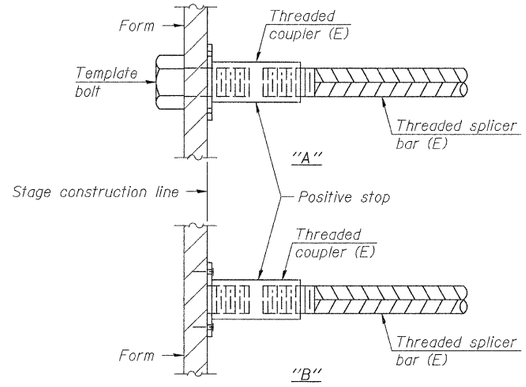
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

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

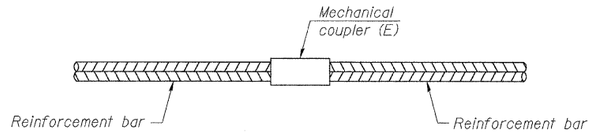
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Top Slab	#5	78	1
Bottom Slab	#5	78	1
Walls	#5	40	1



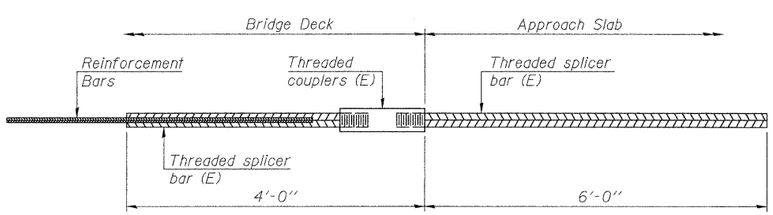
INSTALLATION AND SETTING METHODS

"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.



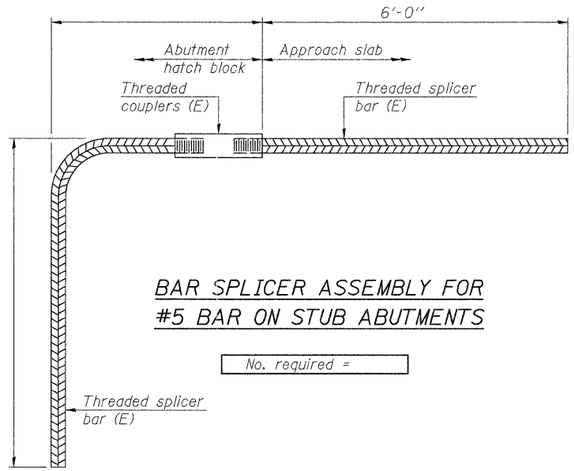
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



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

No. required =



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

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	PLOT SCALE =	DRAWN - AJF	REVISED -
	PLOT DATE =	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 052-2031
SHEET NO. 7 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	102-BR7	LEE	216	99
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

SN 052-2029

Illinois Department of Transportation
Division of Highways
District 2, Dixon

SOIL BORING LOG

Date 4/30/01

ROUTE FAP 615 DESCRIPTION P-92-056-93 IL 26 culvert, 7.2 miles north of Ohio, 0.9 mile south of McCoy Road LOGGED BY C. Jenkins

SECTION (102, 114) RS-4 LOCATION Marion Twp. - SE, SEC. 33, TWP. 20N, RNG. 9E

COUNTY Lee DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. _____
Station 325 + 80

BORING NO. B-1b
Station 325 + 48
Offset 13.00ft Lt CL
Ground Surface Elev. 99.4 ft

Surface Water Elev. 90.0 ft (=608.5)
Stream Bed Elev. 88.6 ft (=603.1)

Groundwater Elev.:
First Encounter 86.4 ft ▼
Upon Completion Wash ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gravel (Top Elev = 698.9)				begin 1st wash	9		
MEDIUM black SANDY LOAM		0.6 P	14	MEDIUM tan SAND & GRAVEL (672.40)	9 11		
96.90							
MEDIUM black SANDY LOAM with a SAND lens	2 2 3	0.9 P	16	Same as above	5 7 10		
95.40				75.40			
-5				-25			
MEDIUM gray/black SANDY LOAM with SAND lenses	1 2 5	0.6 S	14	Wash Same as above	8 7 8		
92.90				72.90			
STIFF black SANDY LOAM	1 3 4	1.2 B	22	Wash Same as above (664.4)	5 6 9		
89.90				=70.40			
-10				-30			
MEDIUM tan river SAND & GRAVEL FL=1031	2 5 6			Same as above	4 5 6		
87.90				67.90			
VERY LOOSE tan SAND with some GRAVEL ▼	1 1 2			Wash Same as above	4 6 8		
85.40				65.40			
-15				-35			
MEDIUM tan SAND with some GRAVEL	1 4 7			Wash Same as above	6 10 12		
82.90				62.90			
MEDIUM tan SAND & GRAVEL	4 7 8			Same as above	10 12 13		
80.40				60.40			
-20 (673.9)				-40 (653.9)			

Note: Project Survey Datum Elev in ( )

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

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
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Groundwater Elev.:
First Encounter 86.4 ft ▼
Upon Completion Wash ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM gray SAND & GRAVEL	8 10 13		
57.90			
Same as above (649.9)	12 13 17		
=55.40			
End of Boring			
-45			
-50			
-55			
-60			

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BBS, from 137 (Rev. 8-99)

LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois	USER NAME =	DESIGNED - MTH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS STRUCTURE NO. 052-2031	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME =	CHECKED - KHH	REVISED -			316	102-BR7	LEE	216	100
	PLOT SCALE =	DRAWN - AJF	REVISED -					CONTRACT NO. 64D57		
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