4-25-08 Letting, Item 100

CONTRACT NO. 66399

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2503	(35)BR-2	KENDALL	129	1

D-93-060-03
P-93-038-02

INDEX OF SHEETS

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET 2

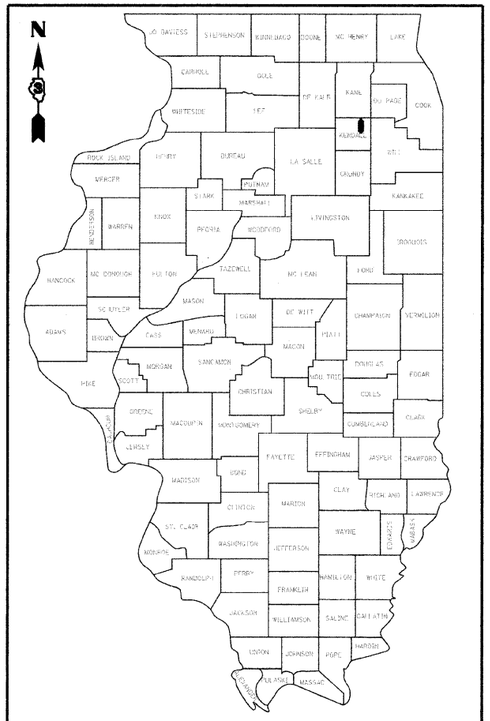
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAU 2503 (IL 25)
SECTION (35)BR-2
PROJECT BRM-2503(017)
KENDALL COUNTY

REPLACEMENT OF THE BRIDGE CARRYING ILLINOIS 25 OVER THE WAUBONSEE CREEK IN OSWEGO

C-93-171-03

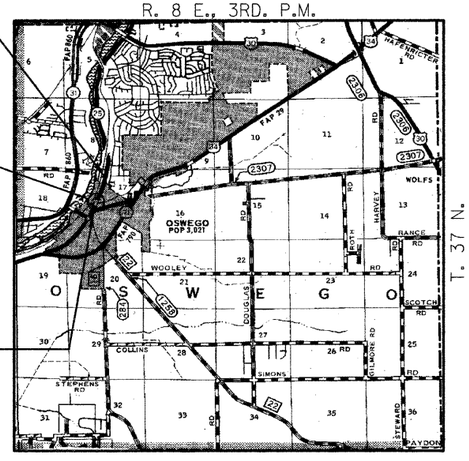


LOCATION OF SECTION INDICATED THUS: –

PROPOSED PROJECT BEGINS
STATION 6+88.04

PROPOSED SECTION (35)BR-2; PROP. SN-047-0062, EXISTING SN-047-0034, OVER WAUBONSEE CREEK; SINGLE SPAN BULB T GIRDER BRIDGE WITH POURED DECK ON INTEGRAL PILE BENT ABUTMENTS 106'-0" BK-BK ABUTS.; 51'-0", 0-0; SKEW = 0° AT STA. 12+91.04

PROPOSED PROJECT ENDS
STATION 16+01.00

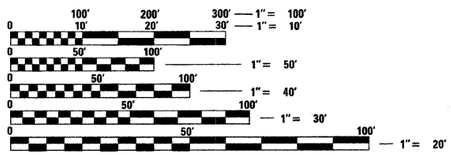


LAYOUT

NOT TO SCALE

NET LENGTH = 806.96FT. = 0.153 MI.
GROSS LENGTH = 912.96FT. = 0.173 MI.

DESIGN DESIGNATION
MINOR URBAN ATERIAL
2005 ADT = 7400
PC=87.2% SU=8.9% MU=3.9%
POSTED SPEED 30MPH



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

MICROFILMED _____
REEL NUMBER _____
AWARDED _____
RESIDENT ENGINEER _____
AS BUILT CHANGES WERE MADE
ON THE FOLLOWING SHEETS _____

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

DISTRICT 3 NO. (815) 434-6131
PROJECT ENGINEER: DAVE BROVIAK
UNIT CHIEF: BRAD DUNCAN
TOWNSHIP: OSWEGO
CONTRACT NO. 66399

COUNTY: KENDALL **SECTION: (35)BR-2** **ROUTE: FAU 2503(IL25)**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 02/05/08

George T. Poole
DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER

March 21, 2008
Eric E. Harm
Interim ENGINEER OF DESIGN AND ENVIRONMENT

March 21, 2008
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

DATE: 1/31/2008
BY: Christopher J. McClure
LICENSE EXPIRES: November 2009

LICENSE NO.
CHRISTOPHER J. McCLURE 062-059119 REGISTERED PROFESSIONAL ENGINEER STATE OF ILLINOIS
SEAL:

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-I DATE: 06/01/07

PLOT DATE: 1/31/2008 FILE NAME = P:\ACAD\06-0029\Cad\Plans\12v0629-sht-cover.dgn

06029-sht-cover.dgn 1/31/2008 2:53:33 PM

CONTRACT NO. 66399

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	129	2
ROAD DIST. NO.	5	ILLINOIS FED. AID PROJECT NO.		

GENERAL NOTES

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SAW CUT THE HMA SURFACE TO CONFORM TO THE. SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE HMA SURFACE

THE BASE COURSE WIDENING SHALL BE CARRIED THROUGH ALL ENTRANCES, SIDE ROADS, AND MAILBOX TURNOUTS. EXCEPTIONS WILL BE SHOWN ON THE PLANS.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

FOR NEW CONSTRUCTION, PLACE CURB RAMPS FOR SIDEWALKS (STANDARD 424001) AT ALL LOCATIONS WHERE PROPOSED SIDEWALK ABUTS CURB AT STREET ENTRANCES.

ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW HMA PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

COMMITMENTS

THE TREES THAT ARE REMOVED WITH THIS PROJECT AND THAT CANNOT BE REPLACED WITHIN THE PROJECT LIMITS, WILL BE REPLACED AS PART OF A DISTRICT WIDE TREE PLANTING CONTRACT.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS INCLUDED IN THESE PLANS.

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

GRANULAR MATERIALS	2.05	TONS / CU YD
BITUMINOUS MAT PRIME COAT	0.08 0.375	GAL / SQ YD OR GAL / SQ YD
AGGREGATE PRIME COAT	0.002	TONS / SQ YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT /100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (MACHINE METHOD)	0.0005	TONS / SQ YD
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION
CALCIUM CHLORIDE	2	LB / SQ YD / APPLICATION
TEMPORARY DITCH CHECKS	5	TONS AGGREGATE

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PRESENCE OF DEPARTMENT-OWNED UNDERGROUND ELECTRICAL CABLE WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR SHALL REQUEST THE ILLINOIS DEPARTMENT OF TRANSPORTATION IN OTTAWA (815-434-8417) TO LOCATE THE UNDERGROUND FACILITIES, PROVIDING A MINIMUM OF 72 HOURS NOTICE. THE DEPARTMENT IS NOT A MEMBER OF THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIE) SYSTEM.

ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRIC CABLE SHALL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

THE WORK REQUIRED TO CONNECT ANY SEWER TO AN EXISTING DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE SEWER ITEMS.

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

NICOR GAS
1844 FERRY ROAD
NAPERVILLE, IL 60563-9600
ATTN: MR. SCOTT STOGSDILL

COM ED
THREE LINCOLN CENTRE
OAKBROOK TERRACE, IL 606181-4260
ATTN: MR. JOHN D. PRIBICH

COMCAST CABLE
688 INDUSTRIAL DRIVE
ELMHURST, IL 60126
ATTN: ROBERT L. SCHULTER JR.

AT & T
866 ROCK CREEK ROAD
PLANO, IL 60545

NON-MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

VILLAGE OF OSWEGO
113 MAIN STREET
OSWEGO, IL 60543
ATTN: JERRY WEAVER

HIGHWAY STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-01	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
420401-06	BRIDGE APPROACH PAVEMENT
424001-05	CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
515001-02	NAME PLATE FOR BRIDGES
542301-01	PRECAST REINFORCED CONCRETE FLARED END SECTION
542306-01	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
602301-01	INLET, TYPE A
602306-01	INLET, TYPE B
602401-01	MANHOLE, TYPE A
602406-02	MANHOLE, TYPE A, 1.8m (6') Diameter
602601-01	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-01	MANHOLE STEPS
604001-02	FRAME AND LIDS, TYPE1
604011-03	FRAME AND GRATE, TYPE 3V
604036-01	GRATE, TYPE 8
604091-01	FRAME AND GRATE, TYPE 24
606001-03	CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTER
606006-01	OUTLET FOR CONCRETE CURB AND GUTTER, TYPE B-6.24
630001-07	STEEL PLATE BEAM GUARDRAIL
630201-05	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-04	SHOULDER WIDENING FOR TYPE 1(SPECIAL) GUARDRAIL TERMINALS
631031-06	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MARKER AND MOUNTING DETAILS
701001-01	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' AWAY FROM PAVEMENT EDGE
701006-02	OFF-ROAD OPERATIONS 2L, 2W, 4.5M (15') TO 600 MM (24") FROM PAVEMENT EDGE
701301-02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-01	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS - DAY ONLY FOR SPEEDS $\leq$ 45 MPH
701311-02	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS, - DAY ONLY
701326-02	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS $\leq$ 45 MPH
701501-04	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-03	LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901	TRAFFIC CONTROL DEVICES
704001-04	TEMPORARY CONCRETE BARRIER
781001-02	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
601101	CONCRETE HEADWALL FOR PIPE DRAIN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

REVIEWED BY: Rich Powell
DISTRICT STUDIES & PLANS ENGINEER

DATE: 2/4/08

EXAMINED BY:
DISTRICT CONSTRUCTION ENGINEER

DISTRICT MATERIALS ENGINEER

DISTRICT OPERATIONS ENGINEER

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i		DATE: 06/01/07
DESIGNED: LFS	CHECKED:	DRAWN: TWK

GENERAL NOTES AND COMMITMENTS
SECTION (35) BR-2
IL 25 OVER WAUBONSEE CREEK
KENDALL COUNTY

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CONTRACT NO. 66399

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	129	3
FED. ROAD DIST. NO.		STATE	F.A. ROUTE NO.	

SUMMARY OF QUANTITIES

	CODE #	ITEM	UNITS	URBAN QUANTITY	I000-2A ROADWAY 80% FEDERAL 20% STATE	X081-2A EX SN 047-0034 PR SN 047-0062 80% FEDERAL 20% STATE	SFTY-1B NEW SIDEWALK 50% STATE 50% VILLAGE
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	184	184		
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	206	206		
	25200200	SUPPLEMENTAL WATERING	UNIT	21	21		
	20200100	EARTH EXCAVATION	CU YD	195	195		
	20200200	ROCK EXCAVATION	CU YD	12	12		
	20400800	FURNISHED EXCAVATION	CU YD	216	216		
	20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	282		282	
	20800150	TRENCH BACKFILL	CU YD	38	38		
*	25000100	SEEDING, CLASS 1	ACRE	0.06	0.06		
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	26	26		
*	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	26	26		
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	26	26		
*	25100630	EROSION CONTROL BLANKET	SQ YD	1104	1104		
	25200110	SODDING, SALT TOLERANT	SQ YD	1600	1600		
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	157	157		
	28000400	PERIMETER EROSION BARRIER	FOOT	670	670		
	28000510	INLET FILTERS	EACH	19	19		
	28100107	STONE RIPRAP, CLASS A4	SQ YD	1115		1115	
	28200200	FILTER FABRIC	SQ YD	1331		1331	
	31100910	SUB-BASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	260	260		
	35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	75	75		
	35501324	HOT-MIX ASPHALT BASE COURSE, 10"	SQ YD	568	568		
	40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	21	21		
	40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	100	100		
	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	476	476		
	40600300	AGGREGATE (PRIME COAT)	TON	8.6	8.6		
	40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	225	225		
	40600990	TEMPORARY RAMP	SQ YD	468	468		
	40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	36	36		
	40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	191	191		
	40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	95	95		
	42000520	PORTLAND CEMENT CONCRETE PAVEMENT, 11"	SQ YD	145	145		
	42001165	BRIDGE APPROACH PAVEMENT	SQ YD	302	302		
	42001300	PROTECTIVE COAT	SQ YD	302	302		
	42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	373	373		
	42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	60	60		
	42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH	SQ FT	2196	180		2016
	44000080	HOT-MIX ASPHALT SURFACE REMOVAL	SQ YD	1284	1284		

* - SPECIALTY ITEMS

SUMMARY OF QUANTITIES

CODE #	ITEM	UNITS	URBAN QUANTITY	I000-2A ROADWAY 80% FEDERAL 20% STATE	X081-2A EX SN 047-0034 PR SN 047-0062 80% FEDERAL 20% STATE	SFTY-1B NEW SIDEWALK 50% STATE 50% VILLAGE
44000100	PAVEMENT REMOVAL	SQ YD	848	848		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	496	496		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	696	696		
44000600	SIDEWALK REMOVAL	SQ FT	112	112		
44201794	CLASS D PATCHES, TYPE III, 12 INCH	SQ YD	42	42		
50300300	PROTECTIVE COAT	SQ YD	661		661	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1	
50105220	PIPE CULVERT REMOVAL	FOOT	95	95		
50200100	STRUCTURE EXCAVATION	CU YD	520		520	
50300225	CONCRETE STRUCTURES	CU YD	58		58	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	243		243	
50300260	BRIDGE DECK GROOVING	SQ YD	495		495	
50300280	CONCRETE ENCASEMENT	CU YD	5.6		5.6	
50400735	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BULB T-BEAMS 63"	FOOT	835		835	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	41830		41830	
50800515	BAR SPLICERS	EACH	396		396	
50900105	ALUMINUM RAILING, TYPE L	FOOT	104		104	
50901125	STEEL RAILING (TEMPORARY)	FOOT	86		86	
51201610	FURNISHING STEEL PILES HP12X63	FOOT	376		376	
51500100	NAME PLATES	EACH	1		1	
54207153	PIPE CULVERTS, TYPE 1, REINFORCED CONCRETE ELLIPTICAL, EQUIVALENT ROUND-SIZE 18"	FOOT	140	140		
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1		
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1		
54214503	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 18"	EACH	1	1		
55019500	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 12"	FOOT	221	221		
55019900	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 24"	FOOT	435	435		
55100500	STORM SEWER REMOVAL 12"	FOOT	70	70		
55100900	STORM SEWER REMOVAL 18"	FOOT	10	10		

* - SPECIALTY ITEMS

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i	DATE: 06/01/07
DESIGNED: LFS	CHECKED:
	DRAWN: TWK

SUMMARY OF QUANTITIES
SECTION (35) BR-2
IL 25 OVER WAUBONSEE CREEK
KENDALL COUNTY

PLOT DATE: 1/31/2008 FILE NAME: F:\Projects\2006\06029\cad\Phase II\06029-sht-summary1.dgn

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	129	4

SUMMARY OF QUANTITIES

	CODE #	ITEM	UNITS	URBAN QUANTITY	I000-2A ROADWAY 80% FEDERAL 20% STATE	X081-2A EX SN 047-0034 PR SN 047-0062 80% FEDERAL 20% STATE	SFTY-1B NEW SIDEWALK 50% STATE 50% VILLAGE
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	122		122	
	60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	192		192	
	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	3		
	60219540	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1		
	60221700	MANHOLES, TYPE A, 5' DIAMETER, TYPE 8 GRATE	EACH	3	3		
	60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	2	2		
	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	6	6		
	60240301	INLETS, TYPE B, TYPE 8 GRATE	EACH	1	1		
	60240328	INLETS, TYPE B, TYPE 24 FRAME AND GRATE	EACH	2	2		
	60255500	MANHOLES TO BE ADJUSTED	EACH	3	3		
	6025[illegible]00	MANHOLES TO BE RECONTSTRUCTED	EACH	1	1		
	60266600	VALVE BOX TO BE ADJUSTED	EACH	1	1		
	60500040	REMOVING MANHOLES	EACH	2	2		
	60500050	REMOVING CATCH BASINS	EACH	5	5		
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1025	1025		
*	63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	12.5	12.5		
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2		
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2		
	63200310	GUARDRAIL REMOVAL	FOOT	399	399		
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10	10		
	67100100	MOBILIZATION	L SUM	1	1		
	70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1		
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	6	6		
	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	456	456		
	70300625	TEMPORARY PAINT PAVEMENT MARKING LINE 4"	FOOT	9696	9696		
	70300645	TEMPORARY PAINT PAVEMENT MARKING LINE 12"	FOOT	326	326		
	70300660	TEMPORARY PAINT PAVEMENT MARKING LINE 24"	FOOT	49	49		
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3807	3807		
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	260	260		
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	260	260		
*	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	2891	2891		
*	78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	68	68		
*	78008240	POLYUREA PAVEMENT MARKING TYPE I - LINE 8"	FOOT	133	133		
*	78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	326	326		
*	78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	49	49		

* - SPECIALTY ITEMS

SUMMARY OF QUANTITIES

	CODE #	ITEM	UNITS	URBAN QUANTITY	I000-2A ROADWAY 80% FEDERAL 20% STATE	X081-2A EX SN 047-0034 PR SN 047-0062 80% FEDERAL 20% STATE	SFTY-1B NEW SIDEWALK 50% STATE 50% VILLAGE
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	35	35		
*	78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	8	8		
*	78200400	GUARDRAIL REFLECTORS	EACH	5	5		
*	78200530	BARRIER WALL MARKERS, TYPE C	EACH	44	44		
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	1129	1129		
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	16	16		
	X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1133		1133	
	XX002155	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 3V FRAME AND GRATE	EACH	2	2		
	Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	24		24	
	Z0030030	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2		
	Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2		
	Z0030330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
*	Z0065000	SETTING PILES IN ROCK	EACH	16		16	

* - SPECIALTY ITEMS

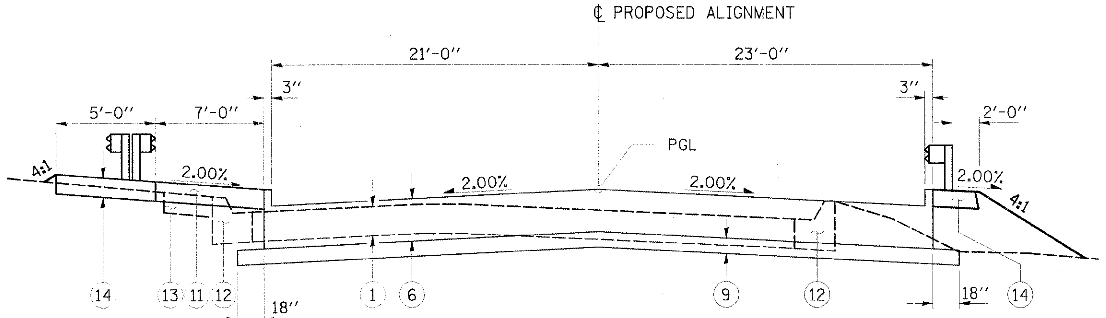
HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i | DATE: 06/01/07
DESIGNED: LFS | CHECKED: | DRAWN: TWK

SUMMARY OF QUANTITIES
SECTION (35) BR-2
IL 25 OVER WAUBONSEE CREEK
KENDALL COUNTY

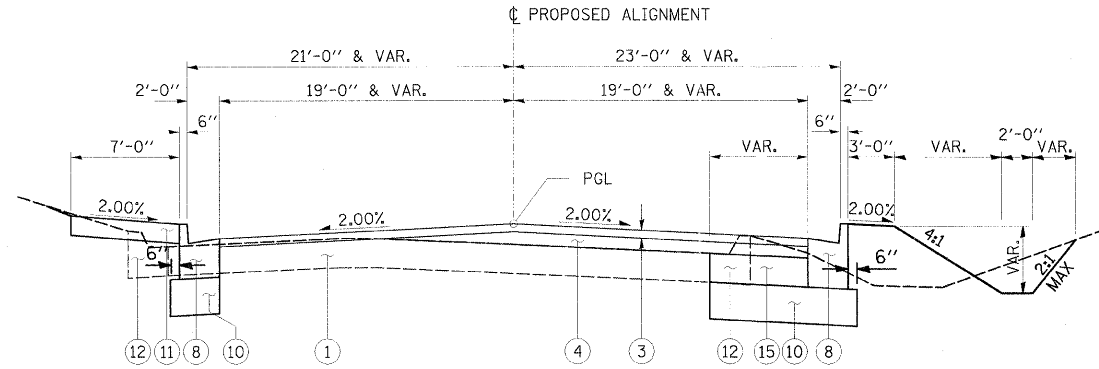
CONTRACT NO. 66399

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 2503	(35)BR-2	KENDALL	129	5
FED. ROAD DIST. NO. 5		ILLINOIS	FED. AID PROJECT	



PROPOSED TYPICAL SECTION

STA. 12+03.00 TO STA. 12+08.00 FLEXIBLE PAVEMENT CONNECTOR
STA. 12+08.00 TO STA. 12+38.00 BRIDGE APPROACH PAVEMENT
STA. 13+44.00 TO STA. 13+74.00 BRIDGE APPROACH PAVEMENT
STA. 13+74.00 TO STA. 13+80.00 FLEXIBLE PAVEMENT CONNECTOR



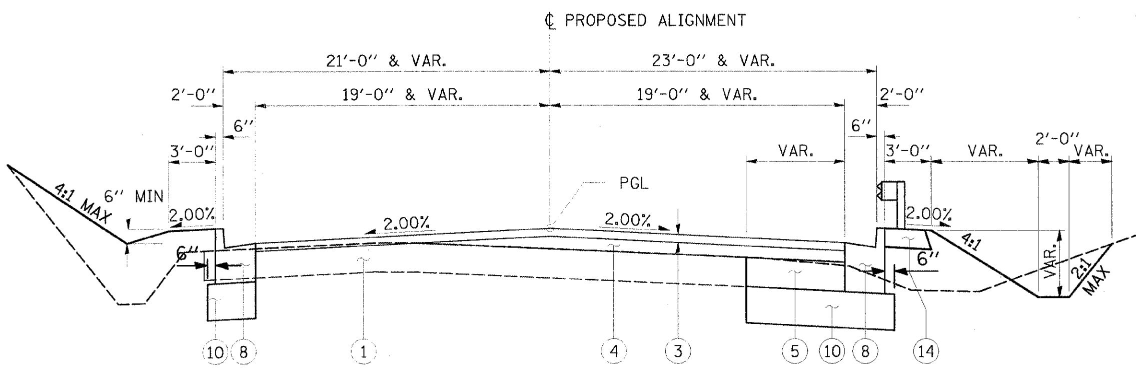
PROPOSED TYPICAL SECTION

STA. 13+80.00 TO STA. 14+50.00

	HMA Binder	HMA Level Binder	HMA Surface	HMA Base Course
PG Grade	PG64-22	PG64-22	PG64-22	PG58-22
Max % Rap Allowable**	15%	15%	10%	25%
Design Air Voids	4.0% @ N70	4.0% @ N70	4.0% @ N70	4.0% @ N50
Mixture Composition	IL 19.0	IL 9.5	IL 12.5 or IL 9.5	IL 19.0
Friction Aggregate			Mixture D	
Density Test Method	Cores / Nuclear	Satisfaction of Engineer	Cores / Nuclear	*

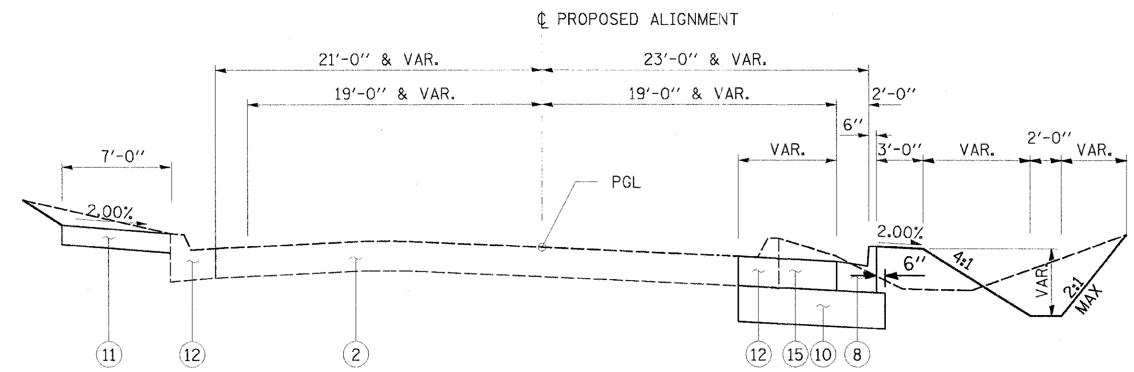
* Material shall be compacted to 93.0 - 97.4 percent of the maximum theoretical density, except that when placed as first lift on an uninproved subgrade the minimum percent compaction shall be 92.0 percent. The maximum theoretical density shall be determined from the moving average as specified in the QC/QA Specifications.

** If RAP option is selected, the asphalt cement grade may need to be adjusted. This will be determined by the Engineer



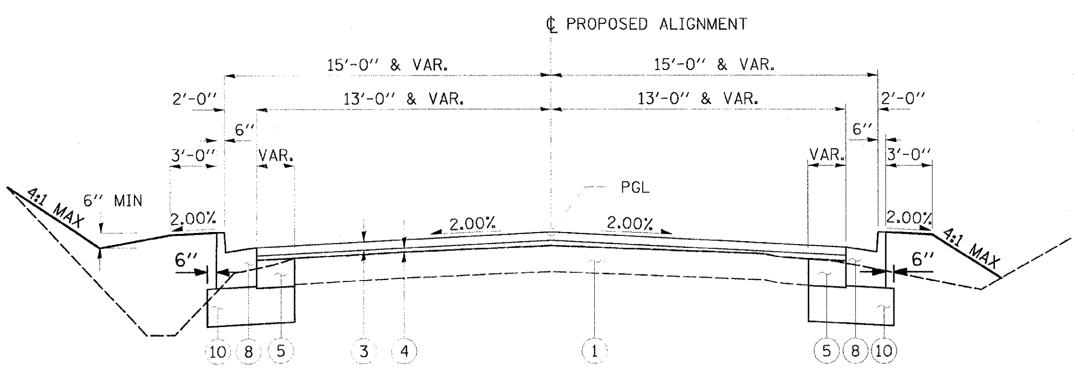
PROPOSED TYPICAL SECTION

STA. 10+80.63 TO STA. 12+03.00



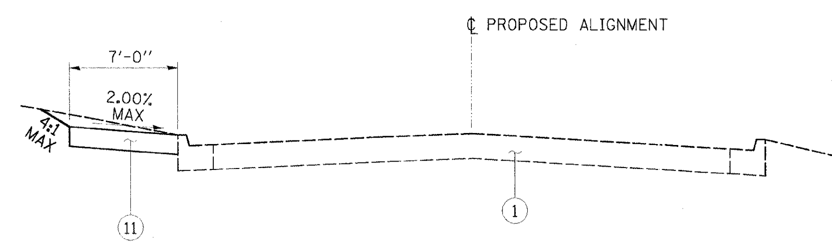
PROPOSED TYPICAL SECTION

STA. 14+50.00 TO STA. 16+01.15



PROPOSED TYPICAL SECTION

STA. 10+13.22 TO STA. 10+80.63



PROPOSED TYPICAL SECTION

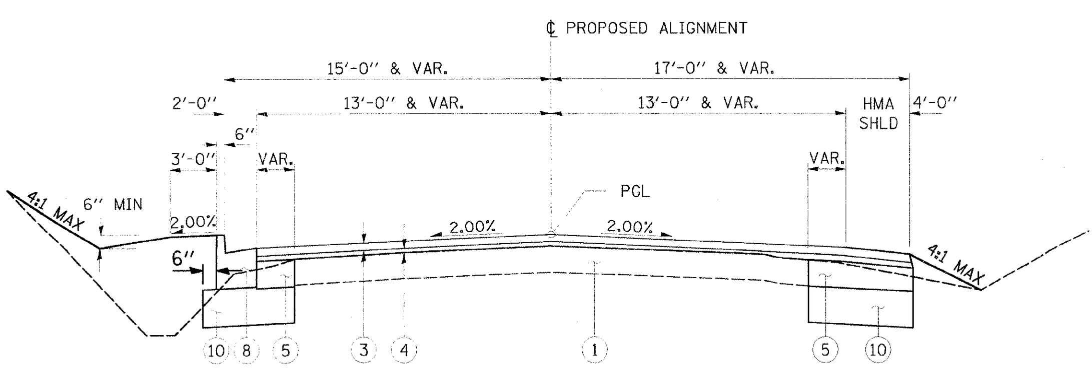
STA. 16+01.15 TO STA. 16+85.75

LEGEND

1. EXISTING HMA RESURFACING OVER CONCRETE PAVEMENT
2. EXISTING CR CONCRETE PAVEMENT
3. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (1.5" THICKNESS)
4. * LEVELING BINDER VARIABLE DEPTH (MACHINE METHOD), N70 (1" MIN / 5" MAX)
5. HOT-MIX ASPHALT BASE COURSE, 10"
6. BRIDGE APPROACH PAVEMENT
7. BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)
8. CRC COMBINATION CURB AND GUTTER, TYPE B-6.24
9. SUB-BASE GRANULAR MATERIAL, TYPE A 4"
10. SUB-BASE GRANULAR MATERIAL, TYPE A 12"
11. PORTLAND CEMENT CONCRETE SIDEWALK 4"
12. EXISTING COMBINATION CONCRETE CURB AND GUTTER
13. EXISTING SIDEWALK
14. HOT-MIX ASPHALT BASE COURSE, 6", SPECIAL
15. PORTLAND CEMENT CONCRETE PAVEMENT, 11"

*NOTE: HMA BINDER COURSE, IL-19.0, N70 SHALL BE PLACED WITH MINIMUM 2-1/4" LIFTS WHERE LEVELING BINDER THICKNESS EXCEEDS 5".

HMA BASE COURSE, 6", SPECIAL TO BE USED FOR GUARDRAIL STABILIZATION.



PROPOSED TYPICAL SECTION

STA. 7+00.00 TO STA. 10+13.22

PAVEMENT STRUCTURAL DESIGN - IL RTE. 25

DESIGN PERIOD 20 YEARS

STRUCTURAL DESIGN TRAFFIC (SDT) = 9300 (2018)
PV = 8110 SU = 828 MU = 362

ROAD/STREET CLASSIFICATION: CLASS II

PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE
P = 50% S = 50% MU = 50%

TRAFFIC FACTOR ACTUAL TF 3.81 AC TYPE 20
MINIMUM TF N.A.

PC GRADE BINDER = 64-22 SURFACE = 64-22

SUBGRADE SUPPORT RATING
SSR = POOR
SSR = POOR

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HLR
ELGIN • SPRINGFIELD

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DESIGNED: LFS / CHECKED: S.W.M.	DRAWN: TWK

PROPOSED TYPICAL SECTIONS

SECTION (35) BR-2

IL 25 OVER WAUBONSEE CREEK

KENDALL COUNTY

ROADWAY SCHEDULE

LOCATION	HOT-MIX ASPHALT SURF CSE MIX D N70 1.5" MIN	HOT-MIX ASPHALT BINDER CSE IL-19.0 N-70 1 3/4" MIN	LEVELING BINDER MACHINE METHOD N70 1" MIN	HOT-MIX ASPHALT BASE CSE. 10"	HOT-MIX ASPHALT BASE CSE. 6"	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE PRIME COAT	HOT-MIX ASPHALT SURFACE REMOVAL	TEMPORARY RAMP	PAVEMENT REMOVAL	AGGREGATE FOR TEMPORARY ACCESS (ESTIMATED)	INCIDENTAL HOT-MIX ASPHALT SURFACING	BRIDGE APPROACH PAVEMENT	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	PROTECTIVE COAT	SUB-BASE GRANULAR MATERIAL TYPE A 12"	PORTLAND CEMENT CONCRETE PAVEMENT 11"
	TON	TON	TON	SQ YD	SQ YD	GAL	TON	SQ YD	SQ YD	SQ YD	TONS	TONS	SQ. YD.	SQ. YD.	SQ YD	SQ YD	SQ YD
PRE-STAGE 1																	
STA 7+18 STA 16+00				442		166	3		60		50	14				260	145
STAGE 1																	
STA 7+18 STA 16+00				126					112	80	50		158	32	158		
STAGE 2																	
STA 7+18 STA 16+00					75				93	559			144	28	144		
STAGE 3																	
STA 7+18 STA 16+00	191	36	225			247	5	1180	148	209					661		
STONE GATE DRIVE						17	0.3	60	19			42					
NORTH ST						16	0.3	44	36			39					
TOTAL	191	36	225	568	75	446	8.6	1284	468	848	100	95	302	60	963	260	145

* ESTIMATED QUANTITY FOR BIDDING PURPOSES

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SCHEDULE OF QUANTITIES
SECTION (35) BR-2
IL 25 OVER WAUBONSEE CREEK
KENDALL COUNTY

CONTRACT NO. 66399

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	129	7
FED.ROAD DIST. NO. 5	ILLINOIS	FED.AID PROJECT-		

GUARDRAIL SCHEDULE

LOCATION	IMPACT ATTENUATORS FULLY REDIRECTIVE NARROW TEST LEVEL 3	TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL (TANGENT)	TRAFFIC BARRIER TERMINAL TYPE 6	STEEL PLATE BEAM GUARDRAIL TYPE A	TERMINAL MARKER DIRECT APPLIED	GUARDRAIL REFLECTORS	GUARDRAIL REMOVAL
	EACH	EACH	EACH	FOOT	EACH	EACH	FOOT
RT. STA. 11+48.89 TO RT. STA. 14+49.69						5	
RT. STA. 11+48.89 TO RT. STA. 11+94.89		1			1		
RT. STA. 11+76.00 TO RT. STA. 12+67.00							91
RT. STA. 11+94.89 TO RT. STA. 12+40.54			1				
LT. STA. 11+98.00 TO LT. STA. 12+67.00							69
LT. STA. 12+14.12 TO LT. STA. 12+38.04	1				1		
RT. STA. 13+10.00 TO RT. STA. 14+10.00							100
LT. STA. 13+10.00 TO LT. STA. 13+80.00							139
RT. STA. 13+41.51 TO RT. STA. 13+87.19			1				
LT. STA. 13+44.04 TO LT. STA. 13+67.96	1				1		
RT. STA. 13+87.19 TO RT. STA. 13+99.69				12.5			
RT. STA. 13+99.69 TO RT. STA. 14+49.69		1			1		
TOTAL	2	2	2	12.5	4	5	399

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION	SHRINKAGE FACTOR	PERCENT USED	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE
	CU.YD.			CU.YD.	CU.YD.	CU.YD.
	195.0	25.00%	100.00%	146	362	216
TOTAL	195.0			146	362	216

EROSION CONTROL BLANKET

LOCATION	SQ. YD.
LT. STA. 12+00 TO LT. STA.12+65	166
RT. STA. 12+00 TO RT. STA.12+80	289
LT. STA. 13+00 TO LT. STA13+60	120
RT. STA. 13+30 TO RT. STA.14+00	319
RT. STA. 14+00 TO RT. STA.14+77	210
TOTAL	1104

PERIMETER EROSION BARRIER

LOCATION	FOOT
RT. STA. 9+20 TO RT. STA.9+90	70
RT. STA. 10+40 TO RT. STA.11+10	70
RT. STA. 11+40 TO RT. STA.12+75	135
LT. STA. 12+05 TO LT. STA.12+60	55
LT. STA. 13+00 TO LT. STA.14+00	100
RT. STA. 13+50 TO RT. STA.14+60	110
LT. STA. 14+25 TO LT. STA.14+85	60
LT. STA. 15+15 TO LT. STA.15+65	70
TOTAL PROJECT	670

SIDEWALK SCHEDULE

LOCATION	WIDTH	PCC SIDEWALK 4 INCH		SIDEWALK REMOVAL	BRIDGE SIDEWALK REMOVAL
		I000-2A 80% FED. 20% STATE	SFTY-1B 50% STATE 50% CITY	I000-2A 80% FED 20% STATE	
		SQ FT		SQ.FT.	SQ.FT.
RT. STA 11+74 LT.	4	180		112	
LT. STA 11+93 TO LT. STA 12+38	7		315		
LT. STA 12+66 TO LT. STA 13+11	4				*180
LT. STA 13+44 TO LT. STA 14+00	7		392		
LT. STA 14+32 TO LT. STA 14+75	7		301		
LT. STA 15+16 TO LT. STA 15+60	7		448		
LT. STA 16+10 TO LT. STA 16+50	7		560		
TOTAL		180	2016	112	180

*- BRIDGE SIDEWALK

TEMPORARY CONCRETE BARRIER AND TEMPORARY IMPACT ATTENUATORS

LOCATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATOR TEMPORARY FULLY REDIRECTIVE NARROW TEST LEVEL 3	IMPACT ATTENUATOR RELOCATE FULLY REDIRECTIVE NARROW TEST LEVEL 3
	FOOT	FOOT	EACH	EACH
STAGE 1				
STA 11+41 TO RT STA11+65			1	
STA 11+65 TO RT STA14+25	260			
STA 14+25 TO RT STA14+48			1	
STAGE 2				
STA 11+41 TO RT STA11+65				1
STA 11+65 TO RT STA14+25		260		
STA 14+25 TO RT STA14+48				1
TOTAL	260	260	2	2

SEEDING, SODDING, NUTRIENTS

LOCATION	SEEDING CLASS 1	SODDING SALT TOLERANT (SPECIAL)	FERTILIZER NUTRIENTS NITROGEN 90/LBS/AC	PHOSPHORUS 90/LBS/AC	POTASSIUM 90/LBS/AC	NITROGEN 60/LBS/AC	PHOSPHORUS 60/LBS/AC	POTASSIUM 60/LBS/AC	TEMPORARY EROSION CONTROL SEEDING 100 LBS/AC/4 APPL
	ACRE	SQ YD	LBS	LBS	LBS	LBS	LBS	LBS	LBS
LT. STA 7+48 TO LT. STA 12+00	0.000	569	0	0	0	7	7	7	47
RT. STA 7+48 TO RT. STA 12+00	0.000	803	0	0	0	10	10	10	66
LT. STA 12+00 TO LT. STA 12+65	0.003	0	1	1	1	0	0	0	1
RT. STA 12+00 TO RT. STA 12+80	0.017	0	1	1	1	0	0	0	7
LT. STA 13+00 TO LT. STA 13+60	0.000	0	0	0	0	0	0	0	0
RT. STA 13+30 TO RT. STA 14+77	0.041	0	4	4	4	0	0	0	16
LT. STA 13+60 TO LT. STA 16+50	0.000	138	0	0	0	2	2	2	11
RT. STA 14+77 TO LT. STA 16+00	0.000	89	0	0	0	1	1	1	7
TOTAL	0.06	1600	6	6	6	20	20	20	157

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SCHEDULE OF QUANTITIES

SECTION (35) BR-2

IL 25 OVER WAUBONSEE CREEK

KENDALL COUNTY

CONTRACT NO. 66399

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	129	8
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT:		

ENTRANCE SCHEDULE

LOCATION	TYPE	EXISTING SURFACE	EXISTING WIDTH	PROPOSED SURFACE	PROPOSED WIDTH	TYPE	FLAIR	DRIVEWAY PAVEMENT REMOVAL	P.C.C. DWAY PVT. 7"	INCIDENTAL HMA SURFACE 2"	AGG. SURF. CSE. TY. A 6"	BIT. MATL. PRIME COAT
			Feet		Feet			SQ. YD.	SQ. YD.	TON	TON	GAL.
IL 25												
RT. STA. 7+28	PE	BIT.	10	CONC.	12	URBAN	10	35	34			
RT. STA. 7+51	PE	BIT.	15	CONC.	15	URBAN	10	66	40			
RT. STA. 8+76	PE	BIT.	10	CONC.	12	URBAN	10	49	28			
RT. STA. 9+05	PE	BIT.	10	CONC.	12	URBAN	10	46	26			
RT. STA. 11+29	PE	BIT.	18	CONC.- BIT.	18	URBAN	10	120	35	7	21	25
LT. STA. 11+88	CE	BIT.	15	CONC.	15	URBAN	10	36	41			
LT. STA. 14+16	PE	CONC-BIT	22	CONC.	22	URBAN	10	46	55			
RT. STA. 14+92	CE	CONC-BIT	22	CONC.	22	URBAN	10	10	10			
LT. STA. 14+97	PE	CONC-BIT	30	CONC.	30	URBAN	10	52	71			
LT. STA. 16+00	PE	CONC-BIT	15	CONC.	15.00	URBAN	10	36	33			
TOTAL								496	373	7	21	25

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24

LOCATION	RADIUS	FOOT
PRE-STAGE 1		
LT. STA. 7+18.04 TO LT. STA. 7+59	40	63
LT. STA. 7+82 TO LT. STA. 8+22.35	40	63
SUBTOTAL		126
STAGE 1		
SUBTOTAL		0
STAGE 2		
LT. STA. 8+22.35 TO LT. STA. 12+08.04		386
LT. STA. 13+74.04 TO LT. STA. 14+50		76
SUBTOTAL		462
STAGE 3		
RT. STA. 10+24 TO RT. STA. 10+63.97	40	63
RT. STA. 10+63.97 TO RT. STA. 12+08.04		144
RT. STA. 13+80 TO RT. STA. 16+00		230
SUBTOTAL		437
TOTAL		1025

TREE REMOVAL (6 TO 15 UNITS DIAMETER)

LOCATION		UNIT
31' LT. STA. 12+30	2 x 8	16
37' LT. STA. 12+47	2 x 6	12
35' RT. STA. 12+47	6	6
32' LT. STA. 12+53	6	6
34' RT. STA. 12+55	6	6
32' RT. STA. 12+58	12	12
41' LT. STA. 12+58	2 x 6	12
24' RT. STA. 12+71	2 x 8	16
49' RT. STA. 12+77	6	6
51' RT. STA. 12+83	6	6
33' RT. STA. 13+32	10	10
31' RT. STA. 13+39	6	6
24' RT. STA. 13+87	12	12
37' RT. STA. 13+95	10	10
37' RT. STA. 13+96	12	12
21' RT. STA. 14+08	8	8
22' RT. STA. 14+21	10	10
31' RT. STA. 14+49	8	8
24' RT. STA. 14+65	10	10
TOTAL		184

COMBINATION CONCRETE CURB AND GUTTER, REMOVAL

LOCATION	FOOT
PRE-STAGE 1	
LT. STA. 7+25 TO LT. STA. 7+59	52
LT. STA. 7+82 TO LT. STA. 8+14	48
LT. STA. 12+08 TO LT. STA. 12+68	60
LT. STA. 13+37 TO LT. STA. 14+50	140
RT. STA. 13+10 TO RT. STA. 16+00	290
SUBTOTAL	590
STAGE 1	
RT. STA. 9+70 TO RT. STA. 10+05	42
RT. STA. 12+04 TO RT. STA. 12+68	64
SUBTOTAL	106
TOTAL	696

PAVEMENT PATCHING

LOCATION	TYPE III	
	SQ YD	
LT STA 7+69	24	
CL STA 8+60	9	
LT STA 11+50	9	
TOTAL	42	

REMOVING MANHOLES

LOCATION	EACH
RT. STA. 14+69	1
LT. STA. 13+60	1
TOTAL	2

REMOVING CATCH BASINS

LOCATION	EACH
RT. STA. 13+16	1
LT. STA. 13+42	1
LT. STA. 13+71	1
LT. STA. 13+81	1
RT. STA. 14+69	1
TOTAL	5

TREE REMOVAL (OVER 15 UNITS DIAMETER)

LOCATION		UNIT
39' RT. STA. 11+44	28	28
40' RT. STA. 12+24	26	26
29' RT. STA. 12+61	16	16
50' RT. STA. 12+65	18	18
52' RT. STA. 12+82	18	18
23' RT. STA. 13+35	2 x 16	32
29' RT. STA. 13+53	2 x 16	32
20' RT. STA. 13+62	18	18
33' RT. STA. 14+59	18	18
TOTAL		206

STORM SEWER REMOVAL

LOCATION	12"	18"
	FOOT	FOOT
RT. STA. 13+16 TO LT. STA. 13+42	40	
LT. STA. 13+42 TO LT. STA. 13+60	20	
RT. STA. 13+27 TO RT. STA. 13+37		10
LT. STA. 13+71 TO LT. STA. 13+81	10	
TOTAL	70	10

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SECTION (35) BR-2

IL 25 OVER WAUBONSEE CREEK

KENDALL COUNTY

CONTRACT NO. 66399

ROUTE NO.	SECTION	COUNTY	FED. ROAD DIST. NO.	STATE	FED. AID PROJECT	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	5	ILLINOIS		129	9

PAVEMENT MARKING SCHEDULE

LOCATION	PERMANENT PAVEMENT MARKINGS								TEMPORARY								SHORT TERM PAVEMENT MARKING	PAVEMENT MARKING REMOVAL	WORK ZONE PAVEMENT MARKING REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	LOCATION
	POLYUREA PAVEMENT MARKING, TYPE 1								PAINT PAVEMENT MARKING														
	SOLID SINGLE WHITE 4" LINE	SOLID SINGLE WHITE 8" LINE	SOLID SINGLE WHITE 24" LINE	SOLID SINGLE WHITE 12" DIAGONAL	SKIP DASH YELLOW 6" LINE	SOLID SINGLE YELLOW 4" LINE	SOLID DOUBLE YELLOW 4" LINE	SOLID SINGLE YELLOW DIAGONAL 12" LINE	SOLID SINGLE WHITE 4" LINE	SOLID SINGLE WHITE 24" LINE	DOTTED SINGLE WHITE 4" LINE	SOLID SINGLE WHITE DIAGONAL 12" LINE	SKIP DASH YELLOW 4" LINE	SOLID SINGLE YELLOW 4" LINE	SOLID DOUBLE YELLOW 4" LINE	SOLID SINGLE YELLOW DIAGONAL 12" LINE	SKIPPED-DASHED YELLOW CENTERLINE 4"						
	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	SQ FT	EACH	EACH	EACH	
PRE-STAGE 1																							PRE-STAGE 1
CL. STA 7+18 TO 11+00																	108		36				CL. STA 7+18 TO 11+00
CL. STA 13+50 TO 15+00																	150		50				CL. STA 13+50 TO 15+00
CL. STA 12+50 TO 16+00																						16	CL. STA 12+50 TO 16+00
STAGE 1																							STAGE 1
RT. STA 7+18 TO 16+00									882									257	294				RT. STA 7+18 TO 16+00
CL. STA 7+18 TO 16+00															1800			608	600				CL. STA 7+18 TO 16+00
LT. STA 8+22 TO 16+00									778									264	259				LT. STA 8+22 TO 16+00
STAGE 2																							STAGE 2
RT. STA 8+12 TO 16+00									788										263				RT. STA 8+12 TO 16+00
CL. STA 8+12 TO 16+00															1576				525				CL. STA 8+12 TO 16+00
LT. STA 8+22 TO 16+00									778										259				LT. STA 8+22 TO 16+00
STAGE 3																							STAGE 3
CL. STA 7+18 TO 16+00																	198		66				CL. STA 7+18 TO 16+00
FINAL STAGE																							FINAL STAGE
RT. STA 6+88 TO 9+74	286																						RT. STA 7+18 TO 6+00
LT. STA 6+88 TO 7+18	30																						LT. STA 7+18 TO 6+00
CL. STA 6+88 TO 9+60					68								115						38				CL. STA 7+18 TO 9+60
CL. STA 8+00 TO 9+60						160								160					53				CL. STA 8+00 TO 9+60
CL. STA 9+60 TO 10+80							240								240				80				CL. STA 9+60 TO 10+80
LCL. STA 10+80 TO 16+00							1040								1040				347				LCL. STA 10+80 TO 16+00
RCL. STA 10+80 TO 15+12							864								864				288				RCL. STA 10+80 TO 15+12
CL. STA 10+80 TO 15+12								208								208			208				CL. STA 10+80 TO 15+12
RT. STA 11+46 TO 14+17	271			118					542			118							299				RT. STA 11+46 TO 14+17
RT. STA 13+80 TO 15+12		33									33								11				RT. STA 13+80 TO 15+12
RT. STA 15+12 TO 16+12		100							100										33				RT. STA 15+12 TO 16+12
CL. STA 7+18 TO 12+00																				20			CL. STA 7+18 TO 12+00
CL. STA 14+00 TO 16+00																				15			CL. STA 14+00 TO 16+00
CL. STA 12+40 TO 13+60																					8		CL. STA 12+40 TO 13+60
CL. 300+23 STONE GATE DR			26							26									52				CL. 300+23 STONE GATE DR
CL. 399+77 NORTH ST			23							23									46				CL. 399+77 NORTH ST
TOTAL	587	133	49	118	68	160	2144	208	3868	49	33	118	115	160	5520	208	456	1129	3807	35	8	16	TOTAL

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ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i		DATE: 06/01/07
DESIGNED: LFS	CHECKED:	DRAWN: TWK

SCHEDULE OF QUANTITIES

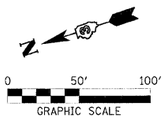
SECTION (35) BR-2

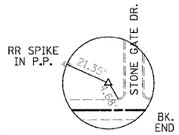
IL 25 OVER WAUBONSEE CREEK

KENDALL COUNTY

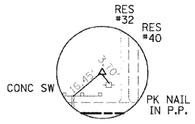
CONTRACT NO. 66399

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 2503	(35)BR-2	KENDALL	129	10
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

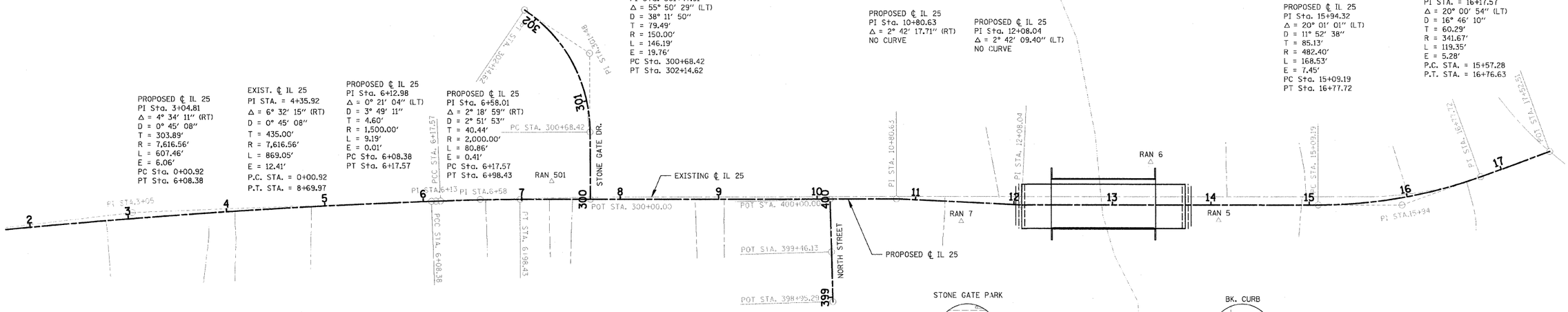


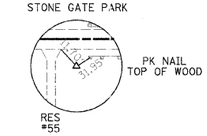


RAN 501
LT 18.53' STA 7+30.50
SPIKE NAIL
N. 828675.792
E. 80001.044

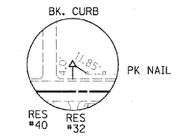


RAN 6
LT 43.91' STA 13+39.07
REBAR W/CAP
N. 828091.080
E. 79831.715





RAN 7
RT 19.60' STA 11+47.38
REBAR W/CAP
N. 828292.940
E. 79833.475



RAN 5
RT 15.50' STA 14+07.90
REBAR W/CAP
N. 828043.945
E. 79753.965

LOCATION	PT #	NORTHING	EASTING
PROPOSED CENTERLINE IL RTE 25			
P.O.T. Sta. 0+00.00	1000	829389.120100	80163.470000
P.I. Sta. 3+04.81	1001	829090.363531	80103.020867
P.I. Sta. 6+12.98	1002	828793.838319	80017.947730
P.I. Sta. 6+58.01	1003	828750.476501	80005.794338
P.I. Sta. 10+80.63	1004	828348.473996	79875.380841
P.I. Sta. 12+08.04	1005	828229.271377	79830.389076
P.I. Sta. 15+94.32	1006	827861.839981	79711.174426
P.O.T. Sta. 17+52.51	1007	827702.020000	79716.870000
EXISTING CENTERLINE IL RTE 25			
P.O.T. Sta. 0+00.00	1010	829389.120130	80163.470026
P.I. Sta. 4+35.92	1011	82896..860000	80077.020000
P.I. Sta. 12+87.00	1012	829389.120130	80163.470026
P.I. Sta. 16+17.57	1013	827836.990000	79712.060000
P.O.T. Sta. 17+51.40	1014	829389.120130	79716.870000
PROPOSED CENTERLINE NORTH ST			
P.O.T Sta. 398+95.29	1020	828442.341000	79795.790000
P.O.T. 399+46.13	1021	828427.896000	79844.530000
P.O.T. 400+00.00	1022	828412.588506	79896.180298
PROPOSED CENTERLINE STONE GATE DRIVE			
P.O.T. Sta. 300+00.00	1030	828644.096679	79971.283696
P.I. Sta. 301+47.91	1031	828598.941083	80112.137003
P.T. Sta. 302+14.62	1032	828647.952495	80174.719540

BENCHMARKS
BM #3 BOX CUT IN S.E. CORNER OF DOUBLE HANDHOLE @ S.W. CORNER OF IL RTE 25 & US RTE 34. ELEVATION 639.174
BM #4 "X" CUT IN TOP BOLT PM HYDRANT @ N.E. CORNER OF JACKSON ST. & US RTE 34 ELEVATION 647.54
BM #6 BOX CUT ON TOP OF N.W. CORNER ON NORTH HEADWALL @ IL RTE 25 AND NORTH ST. ELEVATION 626.365 STA. 9+96. 47' RT.
BM #7 RR SPIKE IN PP/SL @ NE CORNER OF IL RTE. 25 & STONE GATE DRIVE ELEVATION 630.220 STA. 7+13, 30.5' LT.
BM # 100 N.W. BOLT ON HYDRANT @ S.E. CORNER OF WASHINGTON ST & MADISON ST "X" CUT ON BOLT ELEVATION 641.26

NOTE: BENCHMARKS AND CONTROL POINTS ARE REFERENCED FROM THE PROPOSED CENTERLINE.

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ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-1		DATE: 06/01/07
DESIGNED: LFS	CHECKED: S.W.M.	DRAWN: WJS

ALIGNMENTS, TIES, AND BENCHMARKS

SECTION (35) BR-2

IL 25 OVER WAUBONSEE CREEK

KENDALL COUNTY

CONTRACT NO. 66399

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2503	(35) BR-2	KENDALL	129	11
STA. 6+00	TO STA. 11+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROPOSED ℄ IL 25
PI Sta. 3+04.91
Δ = 4° 34' 11" (RT)
D = 0° 45' 08"
T = 303.89'
R = 7,616.56'
L = 607.46'
E = 6.06'
PC Sta. 0+00.92
PT Sta. 6+08.38

PROPOSED ℄ IL 25
PI Sta. 6+12.98
Δ = 0° 21' 04" (LT)
D = 3° 49' 11"
T = 4.60'
R = 1,500.00'
L = 9.19'
E = 0.01'
PC Sta. 6+08.38
PT Sta. 6+17.57

PROPOSED ℄ IL 25
PI Sta. 6+58.01
Δ = 2° 18' 59" (RT)
D = 2° 51' 53"
T = 40.44'
R = 2,000.00'
L = 80.86'
E = 0.41'
PC Sta. 6+17.57
PI Sta. 6+98.43

PROPOSED ℄ IL 25
PI Sta. 10+80.63
Δ = 2° 42' 17.71" (RT)
NO CURVE

EXIST. ℄ IL 25
PI STA. = 0+45.93
Δ = 6° 30' 15" (RT)
D = 0° 45' 08"
T = 435.00'
R = 7,616.56'
L = 869.05'
E = 12.45'
P.C. STA. = 0+00.00
P.T. STA. = 8+89.97

8" WATER MAIN
300+46.73
12.13'LT.
300+46.46
13.21'RT.
#103 1 STORY FRAME RES.
BM #7 RR SPIKE IN PP/SL @ NE CORNER OF IL RTE. 25 & STONE GATE DRIVE
ELEVATION 630.220
REMOVE EXISTING CULVERT
℄ PROPOSED IMPROVEMENT
STONE GATE DR.
STONE WALL
CONC. SIDEWALK
BUSHES
GUTTER OUTLET
6+12.02
33.31
7+37.29
31.70 LT.
8+62.54
68.54 LT.
6+92.88
33.51 LT.
40' R
60' BUTT JOINT
13"x17" CMP CULVERT
89°47'57"
7+18.04
13.00' LT.
8+22.35
13.00' LT.
EXISTING ℄
CONSTRUCTION LIMITS
STA. 7+69.84 IL 25 =
STA. 300+00.00 STONE GATE DR.
STA.10+13.22 IL 25 =
STA. 400+00.00 NORTH ST.
9+71.76
13.00' RT.
POT STA. 400+00.00
10+63.97
13.00' RT.
10+80.63
13.00' RT.
88°31'56"
MATCH LINE STA. 11+00
PI STA.6+03
PI STA.6+58
PCC
PVI STA. 6+17.57
6
7
8
9
10
300
400
12.5'
13'
13.3'
13.9'
12.9'
GRAVEL
GRASS
BUSH
CONC.
8" WATER MAIN
4' HMA SHOULDER
CONSTRUCTION LIMITS
9+50.00
33.85' RT.
TEMPORARY EASEMENT LINE
35' R
9+48.63
33.75 RT
9+84.79
44.00' RT.
399+55.27
9.82'LT.
LIFT STATION
POT STA. 399+95.73
10+50.71
13.76' RT.
EXISTING ENTRANCE TO BE REMOVED
ADJUST EXISTING VALVE BOX
GUTTER OUTLET
399+45.72
9.38'RT.
399 NORTH STREET
19'
24" RCP
18" RCP
IMPROVEMENT BEGINS STATION 6+88.04
RT. STA. 7+28 CONSTRUCT 12' P.E.
RT. STA. 7+51 CONSTRUCT 15' P.E.
RT. STA. 8+76 CONSTRUCT 12' P.E.
RT. STA. 9+05 CONSTRUCT 12' P.E.
#133 1 STORY FRAME RES.
#125 1 STORY FRAME RES.
#121 1 STORY FRAME RES.
#113 1 STORY FRAME RES.
#107 1 STORY FRAME RES.
ILLINOIS ROUTE 25
0 20' 40'
GRAPHIC SCALE

LEGEND
EXISTING R.O.W. LINE
PROPOSED R.O.W. LINE
TEMPORARY EASEMENT LINE
CONSTRUCTION LIMITS
EXISTING DITCH
PROPOSED STORM SEWER
PROPOSED SPECIAL DITCH

ex = 0.21'
K = 58
100.00' V.C.
VPI STA. 7+68.00
ELEVATION 628.00
-2.22%
-0.51%
PROPOSED ℄ GRADE
EXISTING ℄ GRADE

631.86	630.60	629.46	628.50 628.49	627.71 627.86	627.01 627.58	626.71 627.33	626.32 627.07	626.33 626.82	626.34 626.56	626.28 626.31
6+00	6+50	7+00	7+50	8+00	8+50	9+00	9+50	10+00	10+50	11+00

634 632 630 628 626 624 622 620 618 616

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ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i	DATE: 06/01/07
DESIGNED: LPS	CHECKED: S.W.M.
	DRAWN: TWK

ROADWAY PLAN AND PROFILE STA. 6+88 TO STA. 11+00

SECTION (35) BR-2

IL 25 OVER WAUBONSEE CREEK

KENDALL COUNTY

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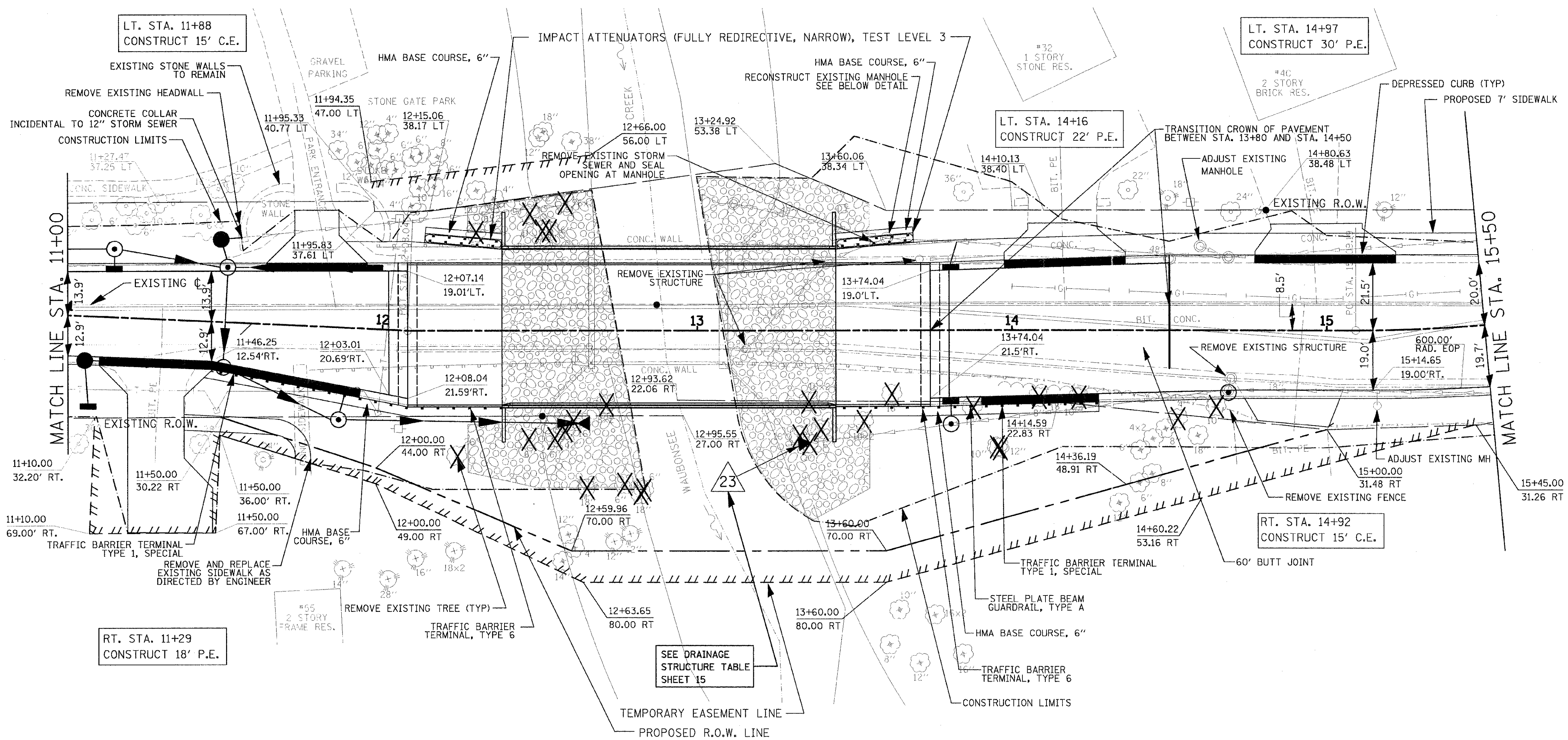
CONTRACT NO. 66399

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2503	(35) BR-2	KENDALL	129	12
STA. 11+00		TO STA. 15+50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROPOSED ℄ IL 25
PI Sta. 12+08.04
Δ = 2° 42' 09.40" (LT)
NO CURVE

STA. 12+91.00 SN 047-0062
SINGLE SPAN BULB T GIRDER BRIDGE
WITH POURED DECK ON INTEGRAL PILE BENT
ABUTMENTS 106'-0" BK-BK ABUTS; 51'-0" O-O, SKEW = 0°

0 20' 40'
GRAPHIC SCALE



EXISTING STRUCTURE No. 047-0034

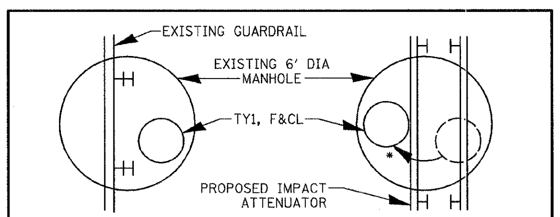
STA 12+87 SINGLE SPAN PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE WITH CLOSED CONCRETE ABUTMENTS ON SPREAD FOOTINGS WITH TWO 4' SIDEWALKS, CONCRETE PARAPETS AND RAILINGS, AND PPC APPROACH SPAN.

REMOVAL OF EXISTING STRUCTURES = 1 EACH

LEGEND

- EXISTING R.O.W. LINE
- PROPOSED R.O.W. LINE
- TEMPORARY EASEMENT LINE
- CONSTRUCTION LIMITS
- EXISTING DITCH
- PROPOSED STORM SEWER
- PROPOSED SPECIAL DITCH

SEE SHEET 13 FOR PROFILE



*ROTATE EXISTING MANHOLE FLATTOP

RECONSTRUCT EXISTING MANHOLE DETAIL

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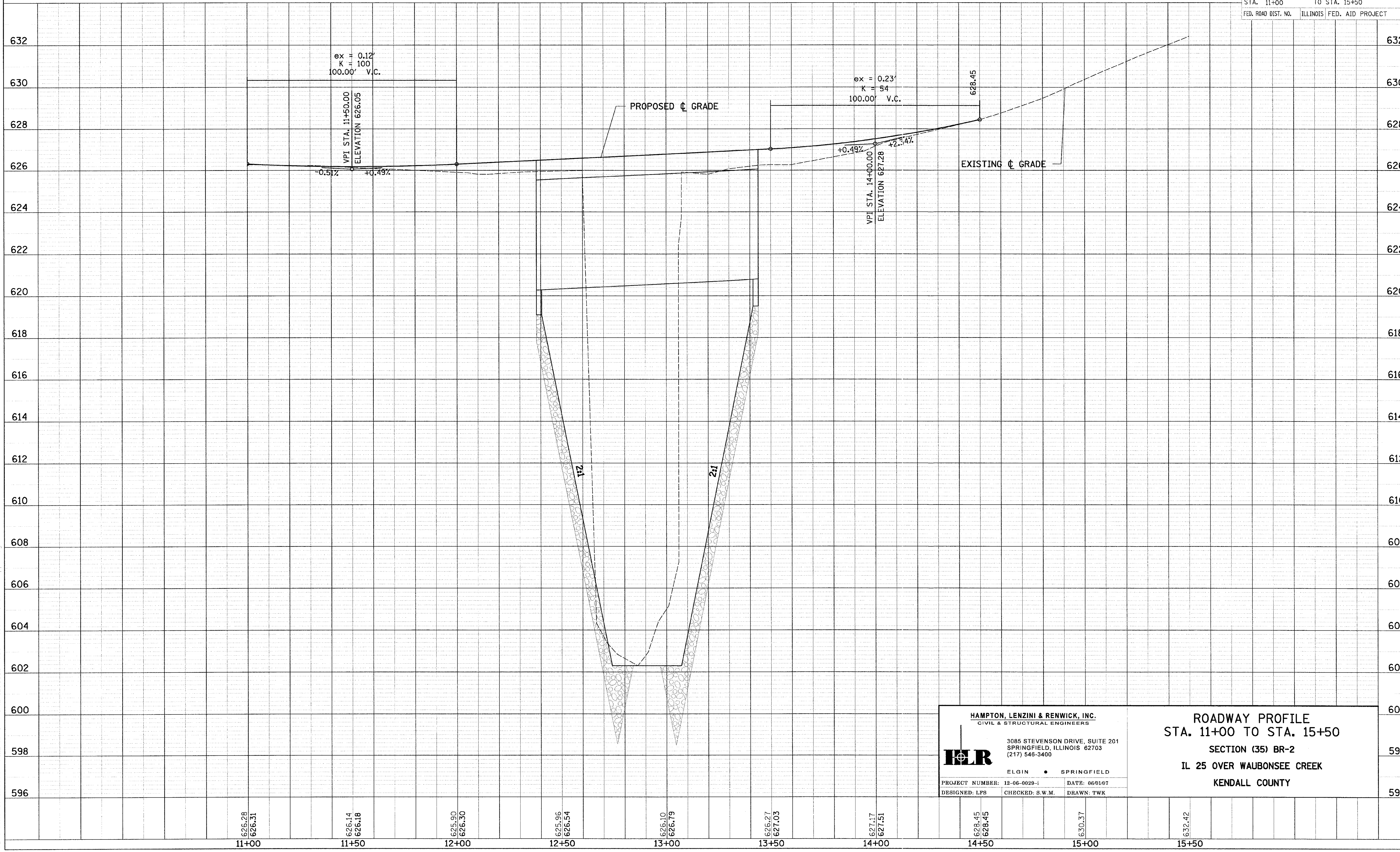
ROADWAY PLAN
STA. 11+00 TO STA. 15+50

SECTION (35) BR-2

IL 25 OVER WAUBONSEE CREEK

KENDALL COUNTY



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HLR
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ELGIN • SPRINGFIELD

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ROADWAY PROFILE
STA. 11+00 TO STA. 15+50

SECTION (35) BR-2

IL 25 OVER WAUBONSEE CREEK

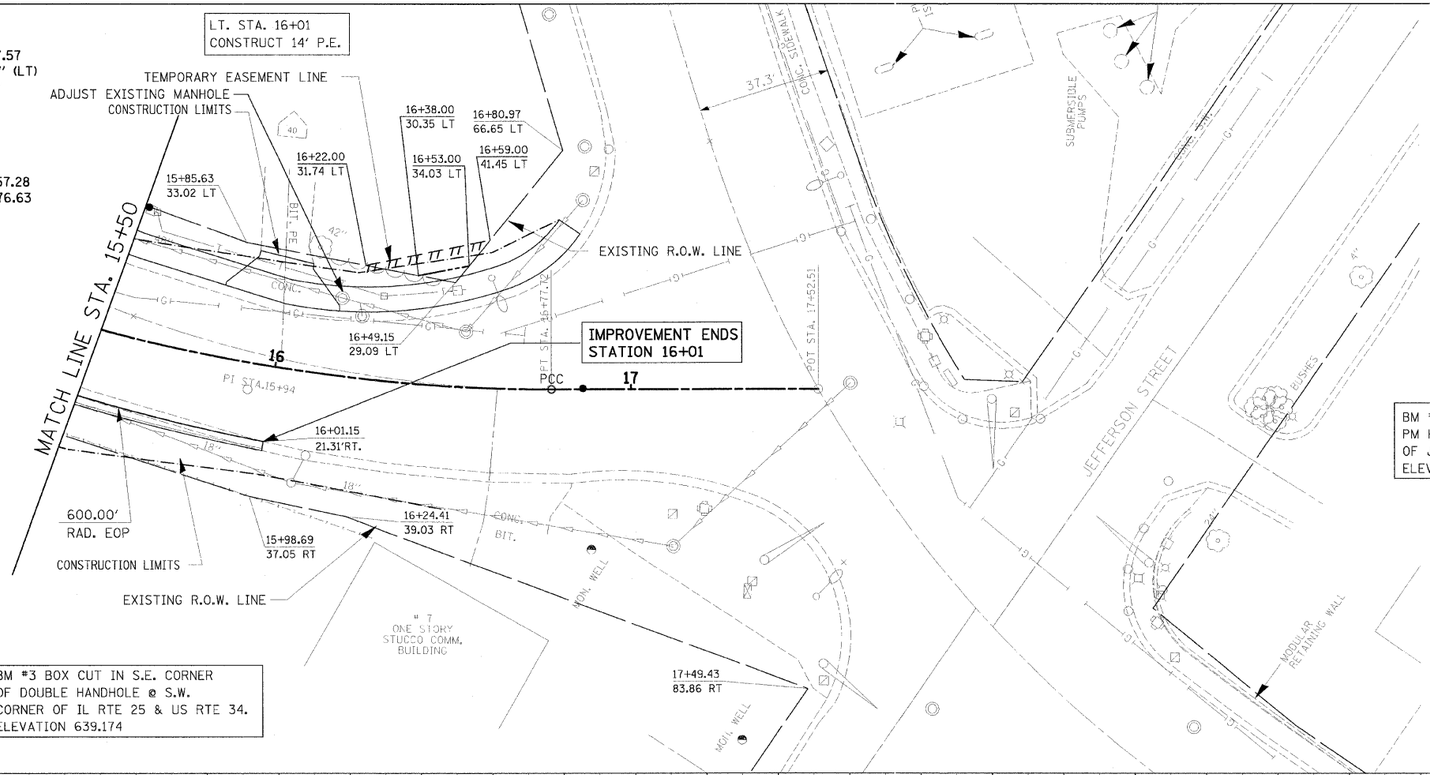
KENDALL COUNTY

CONTRACT NO. 66399

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2503	(35) BR-2	KENDALL	129	14
STA. 15+00	TO STA. 17+51.40			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

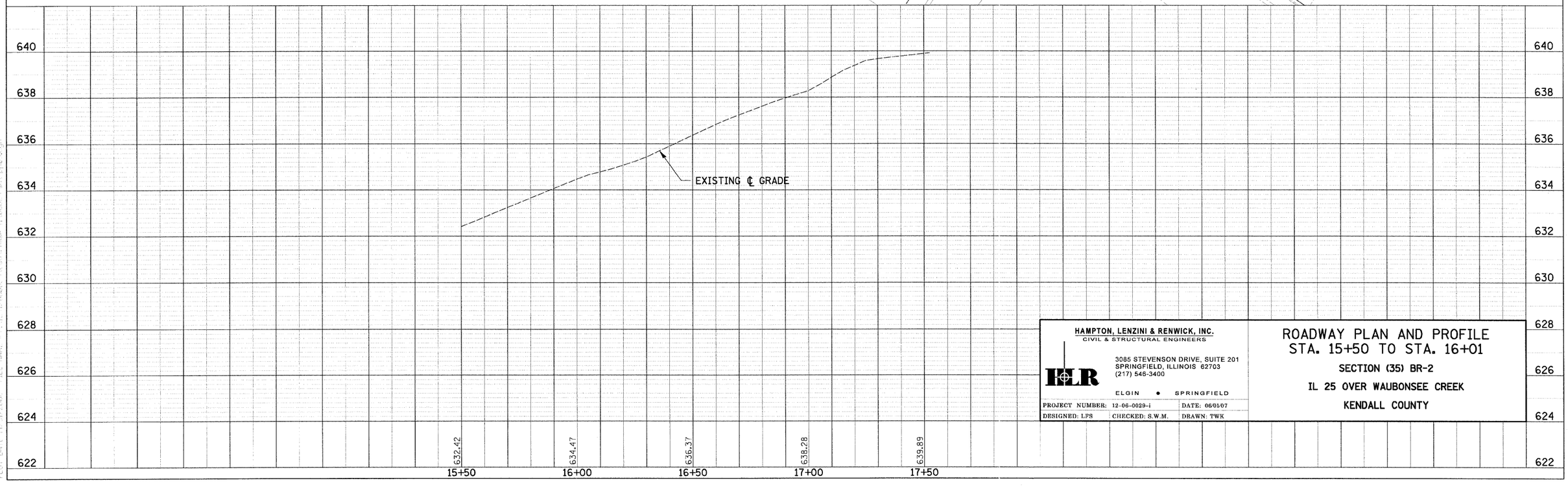
PROPOSED ℄ IL 25
PI STA. = 15+94.32
Δ = 20° 01′ 01″ (LT)
D = 11° 52′ 38″
R = 482.40′
T = 85.13′
L = 168.53′
E = 7.45′
e = NONE
P.C. STA = 15+09.19
P.T. STA = 16+77.72

EXIST. ℄ IL 25
PI STA. = 16+17.57
Δ = 20° 00′ 54″ (LT)
D = 16° 46′ 10″
R = 341.67′
T = 60.29′
L = 119.35′
E = 5.28′
e = NONE
P.C. STA = 15+57.28
P.T. STA = 16+76.63



LEGEND

- EXISTING R.O.W. LINE
- PROPOSED R.O.W. LINE
- TEMPORARY EASEMENT LINE
- CONSTRUCTION LIMITS
- EXISTING DITCH
- PROPOSED STORM SEWER
- PROPOSED SPECIAL DITCH



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ROADWAY PLAN AND PROFILE STA. 15+50 TO STA. 16+01

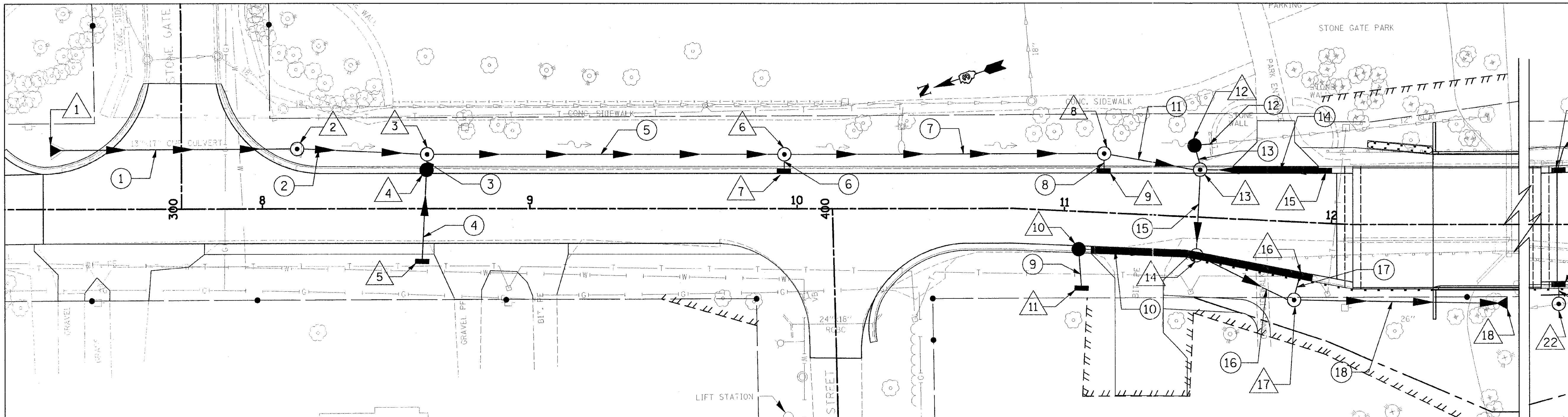
SECTION (35) BR-2

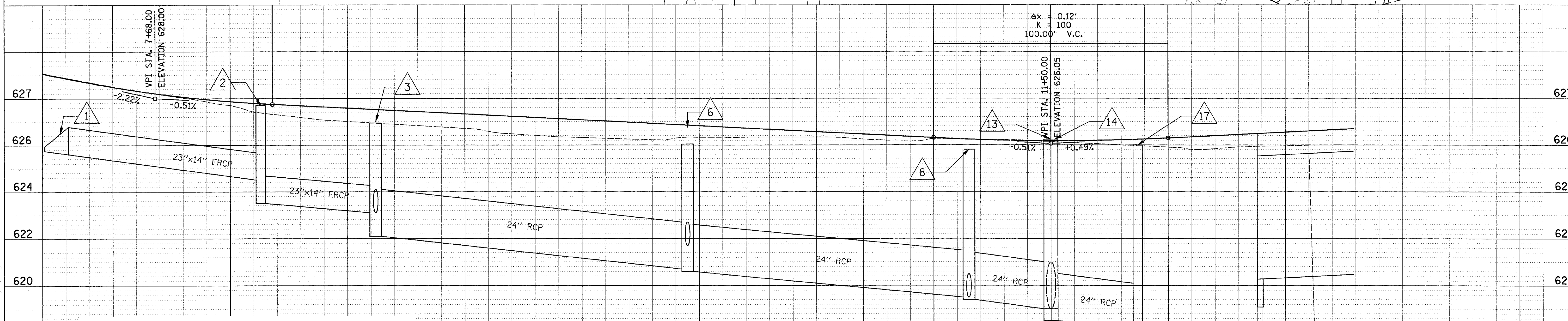
IL 25 OVER WAUBONSEE CREEK

KENDALL COUNTY

CONTRACT NO. 66399

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2503	(35) BR-2	KENDALL	129	15
STA. 11+00	TO STA. 15+50			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





DRAINAGE STRUCTURE TABLE

NO.	STA.	OFFSET	STRUCTURE TYPE/SIZE MH	INL	OTHER	FRAME & GRATE	RIM ELEV TC/FR	INVERT (N)	INVERT (S)	INVERT (E)	INVERT (W)
1	7+21	22' LT			EPRC FES 23x14				625.75		
2	8+13	22' LT	A4			T-1CL	627.70	624.50	623.50		
3	8+62	20' LT	A5			T-8	626.80	623.10	622.10		623.10
4	8+61	15' LT		B		T-24	627.65			623.20	623.20
5	8+60	20' RT		A		T-8	626.50			623.50	
6	9+95	20' LT	A5			T-8	626.00	620.70	620.60		621.70
7	9+95	15' LT		A		T-24	626.96			621.80	
8	11+15	20' LT	A5			T-8	625.80	619.50	619.40		619.50
9	11+15	15.5' LT		A		T-24	626.35			619.60	
10	11+06	14' RT		B		T-24	626.42		620.90		621.00
11	11+07	29' RT		A		T-8	625.20			621.20	
12	11+48	27' LT		B		T-8	624.40		622.40		621.40
13	11+50	18' LT	A6			T3V	626.24	619.00	622.30	621.30	619.00
14	11+50	14' RT	A6			T3V	626.30	620.40	618.50	618.60	
15	11+98	19.5' LT		A		T-24	626.31	622.80			
16	11+90	20' RT		A		T-24	626.36				622.36
17	11+87	30' RT	A4			T-1CL	626.00	618.10	608.30	622.20	
18	12+62	29.5' RT			PRC FES 24			607.50			
19	13+81	21' LT		A		T-24	627.27			622.50	
20	13+81	22' RT		A		T-24	627.23			622.20	
21	14+69	19' RT	A4			T-24	629.30	623.10	623.10		
22	13+81	30' RT	A4			T-1CL	626.00	614.30	614.30		622.00
23	13+32	36' RT			PRC FES 18			609.50			

PIPE TABLE

PIPE NO.	PIPE LOCATION FROM STR #	TO STR #	DESCRIPTION	DIA (IN)	L (FT)	S (%)	TRENCH BACKFILL VOL (CY)
1	1	2	ERCP	23x14	90	1.39	
2	2	3	ERCP	23x14	50	0.80	
3	4	3	RCP	12	5	2.00	
4	5	4	RCP	12	34	1.18	5.9
5	3	6	RCP	24	132	1.06	
6	7	6	RCP	12	5	2.00	
7	6	8	RCP	24	120	0.92	
8	9	8	RCP	12	5	2.00	
9	11	10	RCP	12	14	1.43	
10	10	14	RCP	12	45	1.11	3.3
11	8	13	RCP	24	35	1.14	1.0
12	12	EX	RCP	12	3	1.00	
13	12	13	RCP	12	5	2.00	
14	15	13	RCP	12	45	1.11	
15	13	14	RCP	24	32	1.25	20.2
16	14	17	RCP	24	40	1.00	
17	16	17	RCP	12	10	1.60	
18	17	18	RCP	24	76	1.07	
19	19	EX	RCP	12	5	2.00	
20	20	22	RCP	12	6	3.33	

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i		DATE: 06/01/07
DESIGNED: LFS	CHECKED: S.W.M.	DRAWN: TWK

STORM SEWER PLAN AND PROFILE

SECTION (35) BR-2

IL 25 OVER WAUBONSEE CREEK

KENDALL COUNTY

628.50 628.49	627.71 627.86	627.01 627.58	626.71 627.33	626.32 627.07	626.33 626.82	626.34 626.56	626.28 626.31	626.14 626.18	625.90 626.30	625.96 626.54
7+50	8+00	8+50	9+00	9+50	10+00	10+50	11+00	11+50	12+00	12+50

PART OF THE SW 1/4 SEC. 17, T.37N., R.8E. OF THE 3RD P.M.

PARCEL NO. 3SX0001

OSWEGO COMMUNITY BANK, TRUSTEE

TOTAL HOLDING =	24,923 SQ. FT.±
TOTAL R.O.W. REQUIRED =	28 SQ. FT.±
REMAINDER =	24,895 SQ. FT.±
TEMPORARY EASEMENT AREA =	145 SQ. FT.±
PURPOSE:	GRADING AND SHAPING

PARCEL NO. 3SX0004

RUSSELL R. BREITWIESER TRUST

TOTAL HOLDING =	159,519 SQ. FT.±
TOTAL R.O.W. REQUIRED =	2,087 SQ. FT.±
REMAINDER =	157,432 SQ. FT.±
TEMPORARY EASEMENT AREA =	529 SQ. FT.±
PURPOSE:	GRADING AND SHAPING

PARCEL NO. 3SX0007

LARRY C. LEDGER, ET UX.

TOTAL HOLDING =	26,180 SQ. FT.±
TEMPORARY EASEMENT AREA =	177 SQ. FT.±
PURPOSE:	GRADING AND SHAPING

PARCEL NO. 3SX0002

LJUBISA ZIVKOVIC, ET UX.

TOTAL HOLDING =	17,380 SQ. FT.±
TOTAL R.O.W. REQUIRED =	1,812 SQ. FT.±
REMAINDER =	15,568 SQ. FT.±
TEMPORARY EASEMENT AREA =	838 SQ. FT.±
PURPOSE:	GRADING AND SHAPING

PARCEL NO. 3SX0005

PATRICK McCARTHY, ET UX.

TOTAL HOLDING =	25,112 SQ. FT.±
TOTAL R.O.W. REQUIRED =	2,037 SQ. FT.±
REMAINDER =	23,075 SQ. FT.±
TEMPORARY EASEMENT AREA =	2,166 SQ. FT.±
PURPOSE:	GRADING, SHAPING, & DRIVEWAY CONSTRUCTION

PARCEL NO. 3SX0003

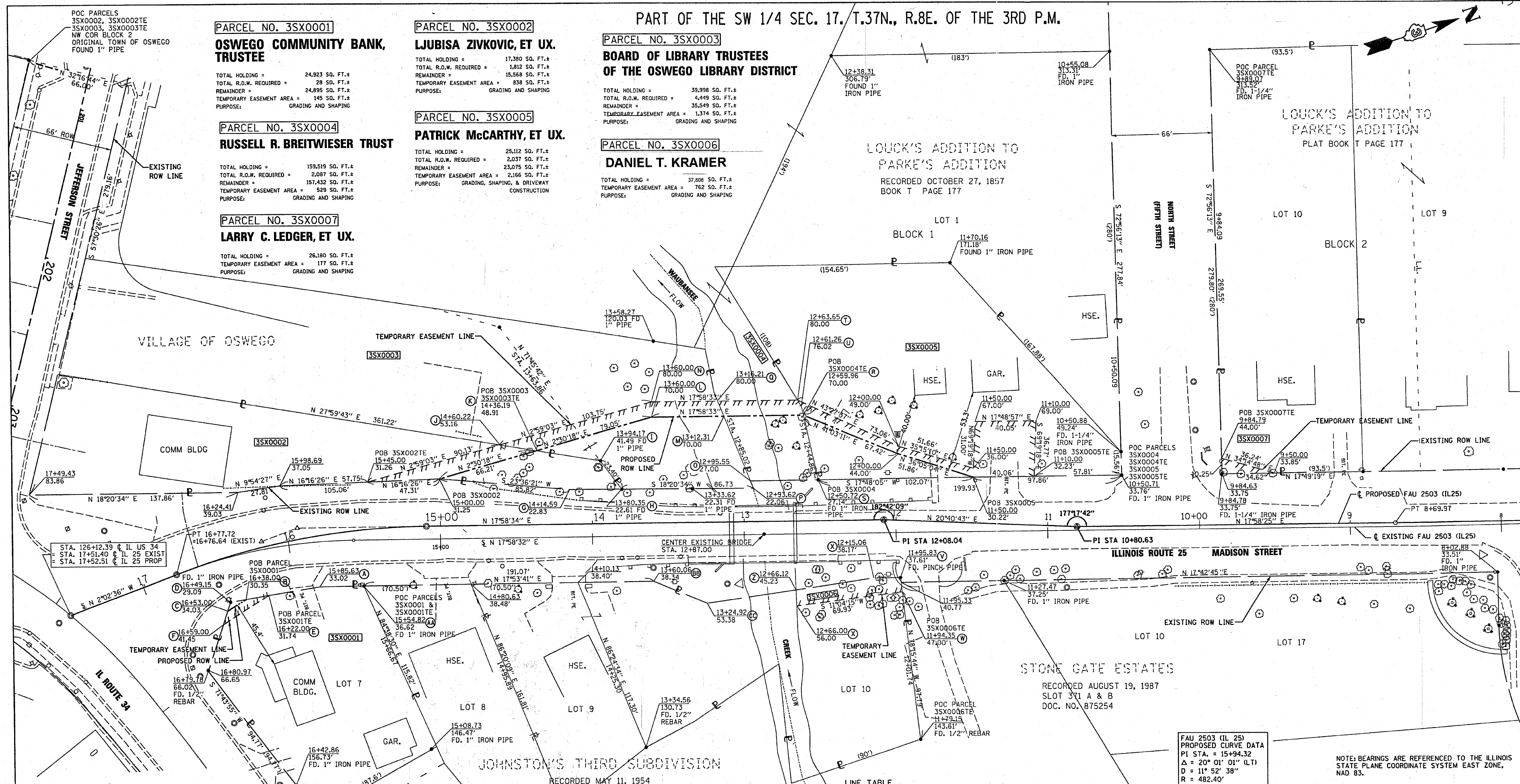
BOARD OF LIBRARY TRUSTEES OF THE OSWEGO LIBRARY DISTRICT

TOTAL HOLDING =	39,998 SQ. FT.±
TOTAL R.O.W. REQUIRED =	4,449 SQ. FT.±
REMAINDER =	35,549 SQ. FT.±
TEMPORARY EASEMENT AREA =	1,374 SQ. FT.±
PURPOSE:	GRADING AND SHAPING

PARCEL NO. 3SX0006

DANIEL T. KRAMER

TOTAL HOLDING =	37,606 SQ. FT.±
TEMPORARY EASEMENT AREA =	762 SQ. FT.±
PURPOSE:	GRADING AND SHAPING



LINE TABLE

PARCEL 1

AA - A	S 17°53'41" W	28.81'
A - B	S 8°54'15" W	48.97'
B - C	S 12°55'10" E	14.47'
C - D	N 52°45'55" W	6.11'
D - B	N 8°54'15" E	10.53'
A - E	S 8°54'15" W	33.94'
E - F	S 13°28'13" E	35.54'
F - C	N 52°45'55" W	9.25'
B - E	N 8°54'15" E	15.03'

PARCEL 2

K - I	N 27°59'43" E	42.66'
I - H	N 71°45'42" E	23.40'
H - G	S 18°20'34" W	34.24'
J - K	N 27°59'43" E	24.41'

PARCEL 3

H - I	S 71°45'42" W	23.40'
I - K	S 27°59'43" W	42.66'
L - M	N 17°58'33" E	47.69'
M - P	N 86°40'38" E	51.46'
K - J	S 27°59'43" W	24.41'
N - Q	N 17°58'33" E	43.79'
Q - M	N 86°40'38" E	10.73'

PARCEL 4

S - O	S 17°48'05" W	44.83'
O - M	S 86°40'38" W	46.15'
M - R	N 17°58'33" E	52.35'
R - S	S 84°11'55" E	43.84'
M - Q	S 86°40'38" W	10.73'
Q - T	N 17°58'33" E	52.26'
T - U	N 77°03'05" E	4.64'
U - R	S 84°11'55" E	6.16'

PARCEL 5

R - S	S 84°11'55" E	43.84'
T - U	N 77°03'05" E	4.64'
U - R	S 84°11'55" E	6.16'

PARCEL 6

X - Y	N 72°38'23" W	10.76'
Y - Z	N 10°05'41" E	51.55'
Z - V	N 17°54'30" E	17.45'
V - W	S 78°15'44" E	9.50'
BB - CC	N 41°08'41" E	38.22'
CC - Z	N 10°05'41" E	59.37'

FAU 2503 (IL 25) PROPOSED CURVE DATA

PI STA. = 15+94.32
Δ = 20° 01' 01" (LT)
D = 11° 52' 38"
R = 482.40'
T = 85.13'
L = 168.53'
E = 7.45'
P.C. STA = 15+09.19
P.T. STA = 16+77.72

FAU 2503 (IL 25) EXISTING CURVE DATA

PI STA. 16+17.57
Δ = 20° 01' 04" (LT)
D = 16° 46' 10"
R = 341.67'
T = 60.30'
L = 119.37'
E = 5.28'
PC STA. 15+57.27
PT STA. 16+76.64

FAU 2503 (IL 25) EXISTING CURVE DATA

PI STA. 4+35.92
Δ = 6° 32' 15" (RT)
D = 0° 45' 08"
R = 7616.56'
T = 435.00'
L = 869.05'
E = 12.41'
PC STA. 0+00.92
PT STA. 8+69.97

NOTE: BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, NAD 83.

0 30 60 90 120

SCALE: 1" = 30 FEET

I, JIMMY D. ROSE, HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF ILLINOIS FAU 2503 (ILLINOIS ROUTE 25) WAS MADE UNDER MY DIRECTION, AND THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON, AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

DATED September 5, 2007
BY [signature]
JIMMY D. ROSE
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2775
AMENT, INC. ILLINOIS PROFESSIONAL DESIGN FIRM #184-002495
LICENSE EXPIRES NOVEMBER 30, 2008

JIMMY D. ROSE 35-2775 PROFESSIONAL LAND SURVEYOR OF STATE OF ILLINOIS

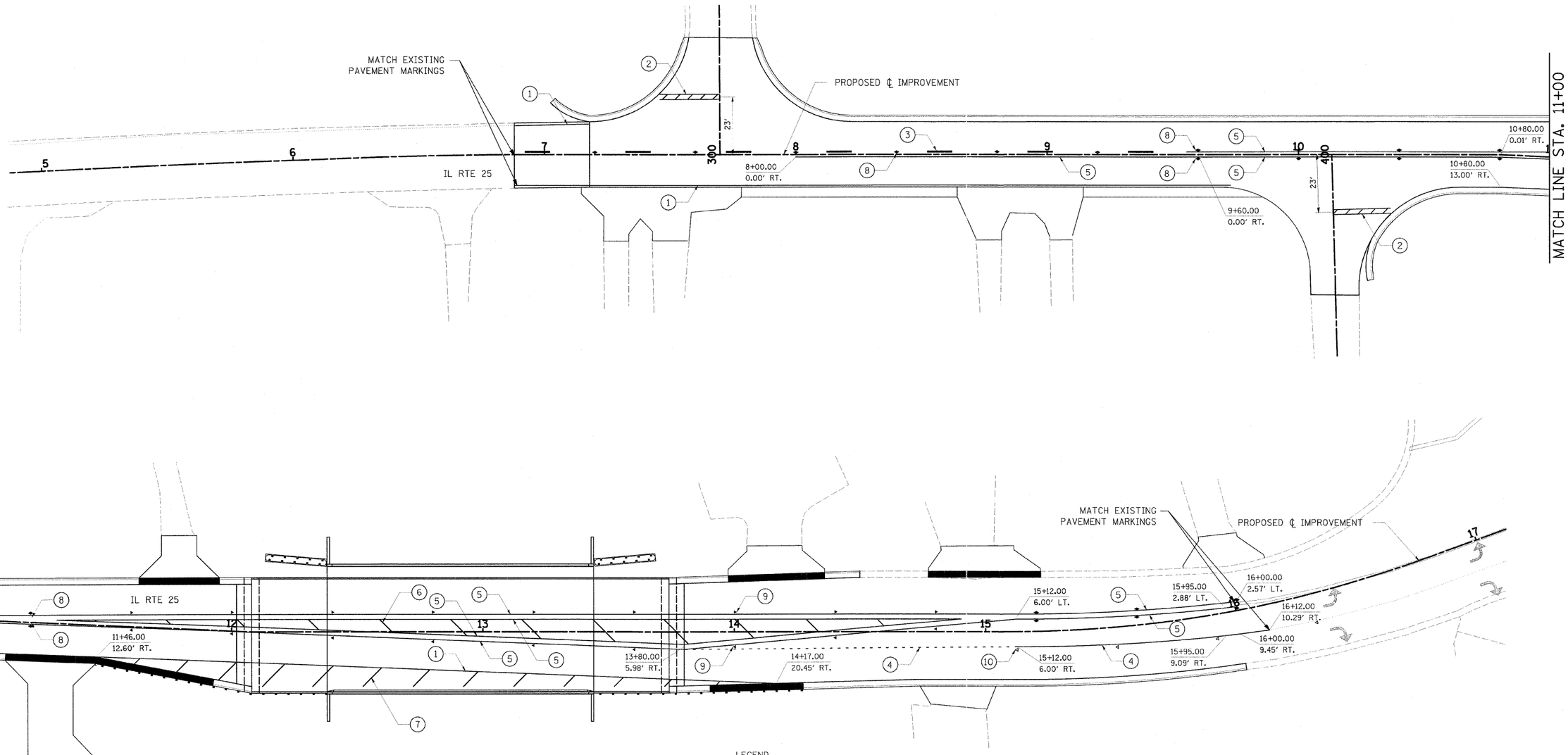
RIGHT OF WAY PLANS

ROUTE	FAU 2503 (IL RTE 25)
SECTION	35BR-2
PROJECT	-
COUNTY	KENDALL
JOB NUMBER	R-93-010-04
STATION	8+00 TO 17+00
SHEET	1 OF 1 SCALE 1"=30'

PLOT DATE = Jan 04, 2008 - 01:30:30 PM
FILE NAME = o:\projects\ep03802\consult\row\new parcelplat.dgn
PLOT SCALE = 30.0000 ' / IN.
USER NAME = aime:JJ

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	129	17
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT-		

0 20' 40'
GRAPHIC SCALE



LEGEND

1 POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (WHITE EDGE LINE)
2 POLYUREA PAVEMENT MARKING TYPE I - LINE 24" (WHITE STOP LINE)
3 POLYUREA PAVEMENT MARKING TYPE I - LINE 6" (YELLOW DASH LINE)
4 POLYUREA PAVEMENT MARKING TYPE I - LINE 8" (WHITE TURN LANE)
5 POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (YELLOW SOLID LINE)
6 POLYUREA PAVEMENT MARKING TYPE I - LINE 12" (YELLOW DIAGONAL @ 20' CENTERS)
7 POLYUREA PAVEMENT MARKING TYPE I - LINE 12" (WHITE DIAGONAL @ 20' CENTERS)
8 RAISED REFLECTIVE PAVEMENT MARKERS TWO-WAY AMBER MARKER
9 RAISED REFLECTIVE PAVEMENT MARKERS ONE-WAY AMBER MARKER
10 RAISED REFLECTIVE PAVEMENT MARKERS ONE-WAY CRYSTAL MARKER

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-1		DATE: 06/01/07
DESIGNED: LFS	CHECKED:	DRAWN: WJS

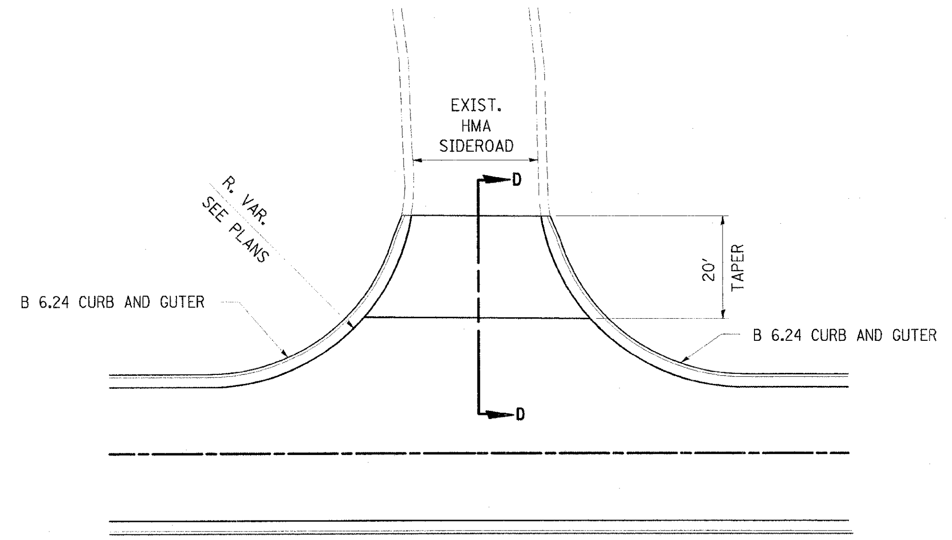
PERMANENT PAVEMENT MARKING

SECTION (35) BR-2
IL 25 OVER WAUBONSEE CREEK
KENDALL COUNTY

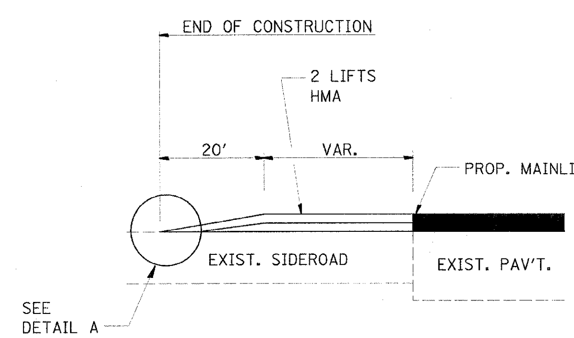
PLOT DATE = 1/31/2008 FILE NAME = P:\Projects\12-06-0029-1\Engineering\Sheets\06029-sht-pvmtmrk.dgn

06029-sht-pvmtmrk.dgn 1/31/2008 2:06:55 PM

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	129	18
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT-		

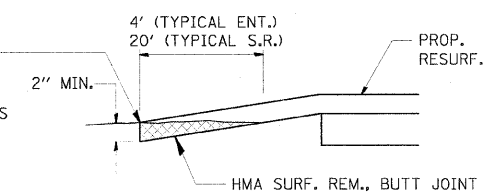


SIDEROAD DETAIL

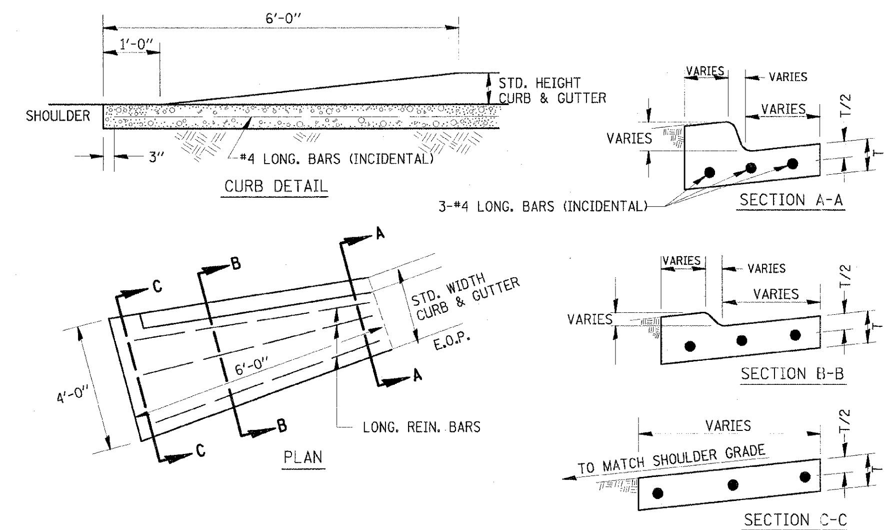


SECTION D-D

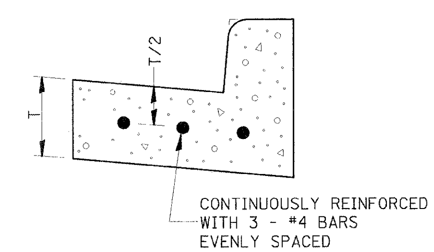
THE COST OF REMOVAL AT EXISTING H.M.A. OR P.C.C. LOCATIONS SHALL BE PAID FOR PER SQ. YD. BY THE APPROPRIATE PAY ITEM. REMOVAL AT EXISTING AGG. LOCATIONS SHALL BE INCIDENTAL TO THE H.M.A.



DETAIL A

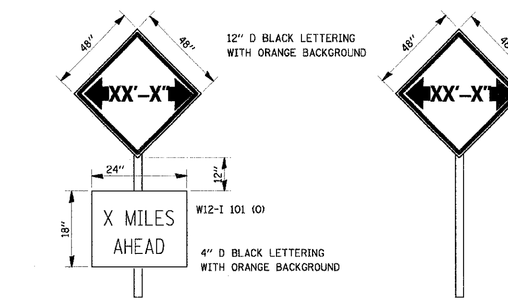


CURB & GUTTER OUTLET, SPECIAL



REINFORCEMENT SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR CC&G.

REINFORCEMENT DETAIL FOR COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.24



TO BE POST MOUNTED AS SHOWN ELSEWHERE IN THE PLANS.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 21 DAYS PRIOR TO INSTALLING ANY TRAFFIC CONTROL DEVICES THAT RESTRICT THE PAVEMENT WIDTH.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE ENGINEER TO MEET THIS REQUIREMENT.

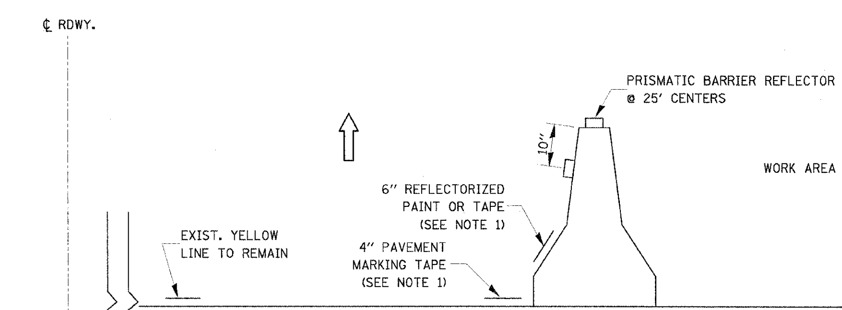
COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

STAGE 1 WIDTH RESTRICTION TO BE POSTED AT 9'-3".

STAGE 2 WIDTH RESTRICTION TO BE POSTED AT 8'-6".

WIDTH RESTRICTION SIGNS WILL BE REQUIRED AT THE FOLLOWING LOCATIONS:
NOTHBOUND IL25 - N/O INTERSECTION OF US 34 AND IL25
SOUTHBOUND IL25 - N/O GRADE SEPARATION OF US 30 AND IL25 (2.5 MILES AHEAD)
SOUTHBOUND IL25 - STATION 6+00

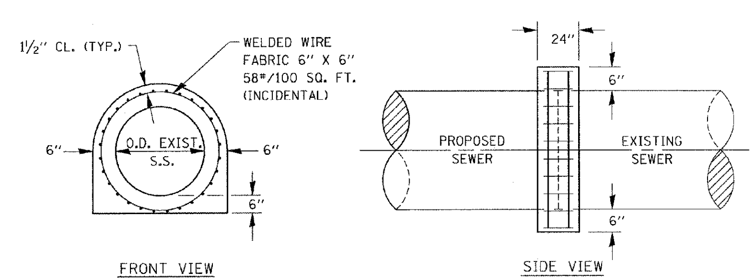
WIDTH RESTRICTION SIGNING DETAILS



NOTES:

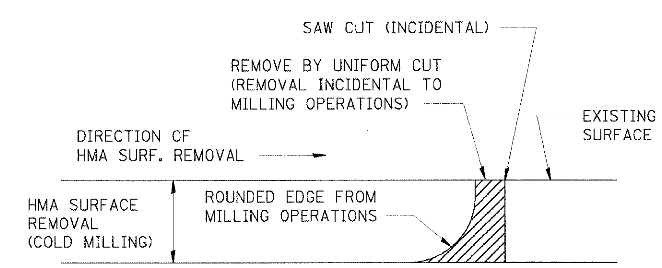
1. THE CONTRACTOR HAS THE OPTION OF USING EITHER THE LINE ON THE TEMPORARY CONCRETE BARRIER OR ON THE PAVEMENT.
2. THE COLOR OF THE REFLECTORS AND PAVEMENT/BARRIER MARKING LINE WILL VARY WITH STAGING AND SHALL MATCH THE EXISTING LINE IN THE WORK AREA.
3. THE COST OF THE REFLECTORS AND THE PAVEMENT/BARRIER MARKING LINE IS INCLUDED IN THE COST OF THE TEMPORARY CONCRETE BARRIER.

BARRIER WALL REFLECTOR



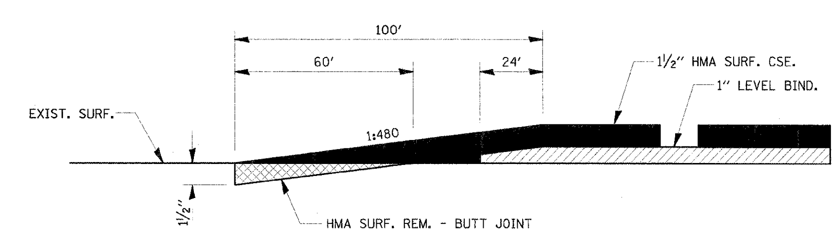
CONCRETE COLLAR FOR SEWER CONNECTION

550-1



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

HMA DETAIL AT BUTT JOINTS



PAVEMENT TRANSITION

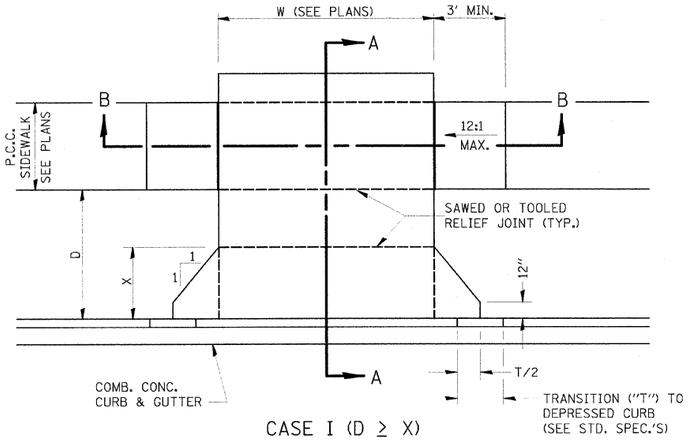
HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
HLR
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i	DATE: 06/01/07
DESIGNED: LFS / CHECKED:	DRAWN: TWK

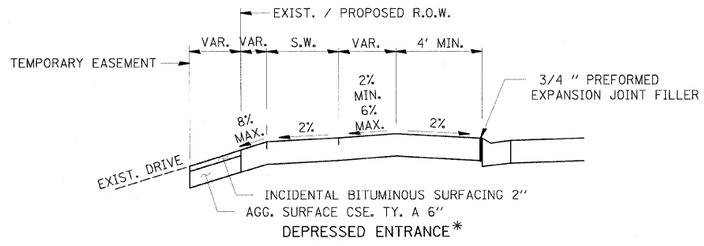
MISCELLANEOUS DETAILS
SECTION (35) BR-2
IL 25 OVER WAUBONSEE CREEK
KENDALL COUNTY

CONTRACT NO. 66399

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	129	19
F.A.U. PROJ. TYPE/NO. 5	ILLINOIS	FED. AID PROJECT		



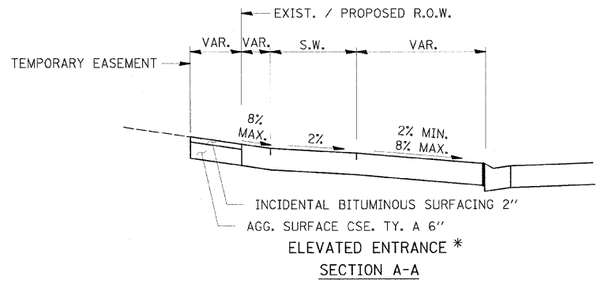
CASE I (D ≥ X)



DEPRESSED ENTRANCE *

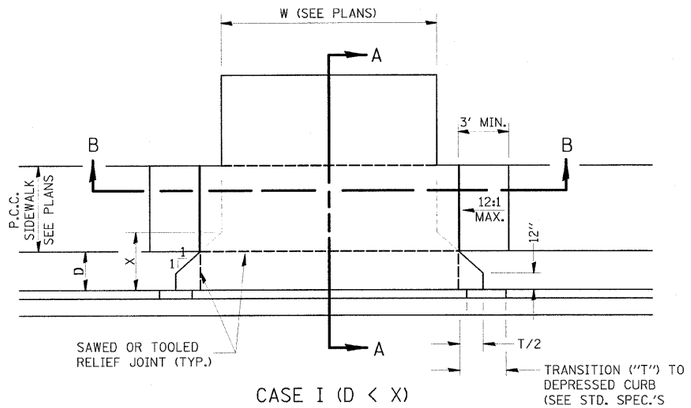
SECTION A-A

*(SEE X-SECTIONS FOR ENTRANCE PROFILE.)

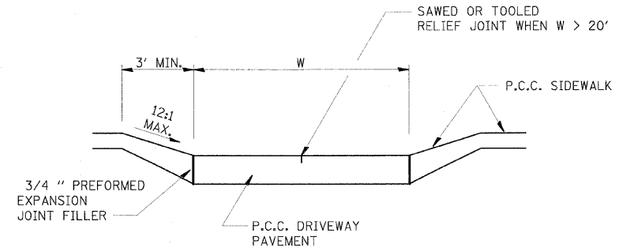


ELEVATED ENTRANCE *

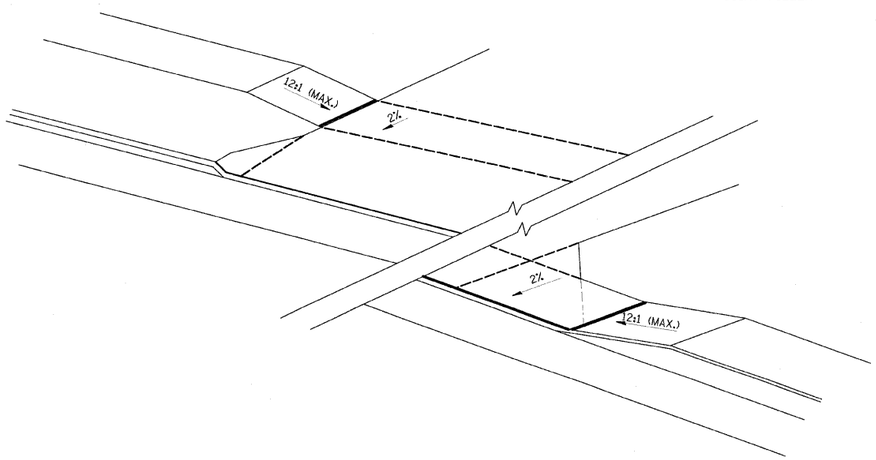
SECTION A-A



CASE I (D < X)



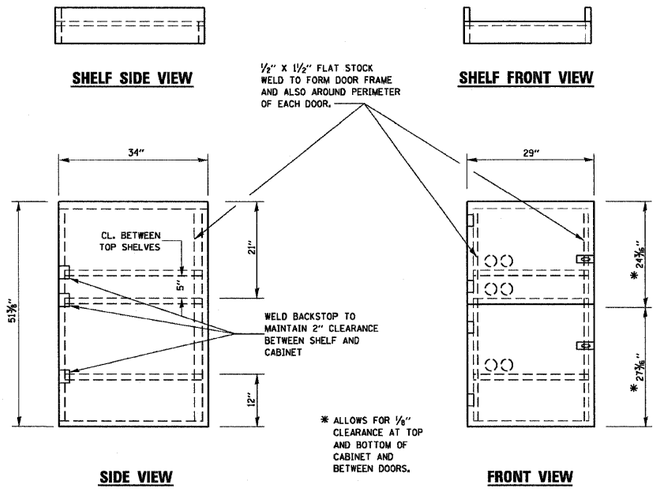
SECTION B-B

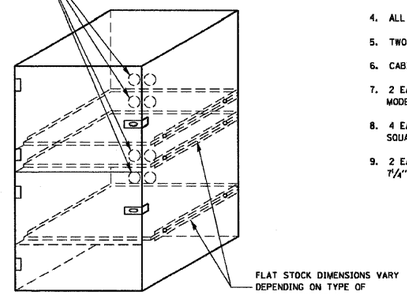


GENERAL NOTES:

1. X = 7' (NON-COMMERCIAL) X = 15' (COMMERCIAL)
2. COST OF EXPANSION JOINTS AND RELIEF JOINTS SHALL BE INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT.
3. AS THE DIMENSION "D" APPROACHES ZERO, THE TRANSITION TO DEPRESSED CURB SHALL BE NO STEEPER THAN 12:1

PCC URBAN ENTRANCES





NOTES:

1. USE 16 GAUGE STEEL FOR CABINET.
2. THE TOP SHELF SHALL SLIDE IN OR OUT WITH THE TOP DOOR OPEN.
3. ALL HINGES AND HASPS WILL BE WELDED TO THE CABINET.
4. ALL EDGES SHALL BE GROUND SMOOTH.
5. TWO (2" DIA.) ACCESS HOLES WILL BE REQUIRED FOR EACH SHELF.
6. CABINET SHALL BE PAINTED WITH TWO COATS OF FLAT PAINT.
7. 2 EACH MATCHING KEY PADLOCKS, WITH 3 KEYS PROVIDED, MASTER MODEL 3 T OR EQUIVALENT.
8. 4 EACH PLAIN STEEL, NON-REMOVABLE PIN, NO HOLE 4" x 4" SQUARE CORNER HINGES TO BE WELDED ON.
9. 2 EACH EXTRA HEAVY, PLAIN STEEL, FIXED STAPLE, NO HOLE, 7¼" HASPS TO BE WELDED ON.

LOCKABLE COMPUTER CABINET **670-1**

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
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SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i		DATE: 06/01/07
DESIGNED: LFS	CHECKED:	DRAWN: TWK

MISCELLANEOUS DETAILS
SECTION (35) BR-2
IL 25 OVER WAUBONSEE CREEK
KENDALL COUNTY

PLOT DATE: 1/31/2006 FILE NAME: P:\Civil\2006\06-0029-i\Plans\06-0029-sht-specialdetails2.dgn

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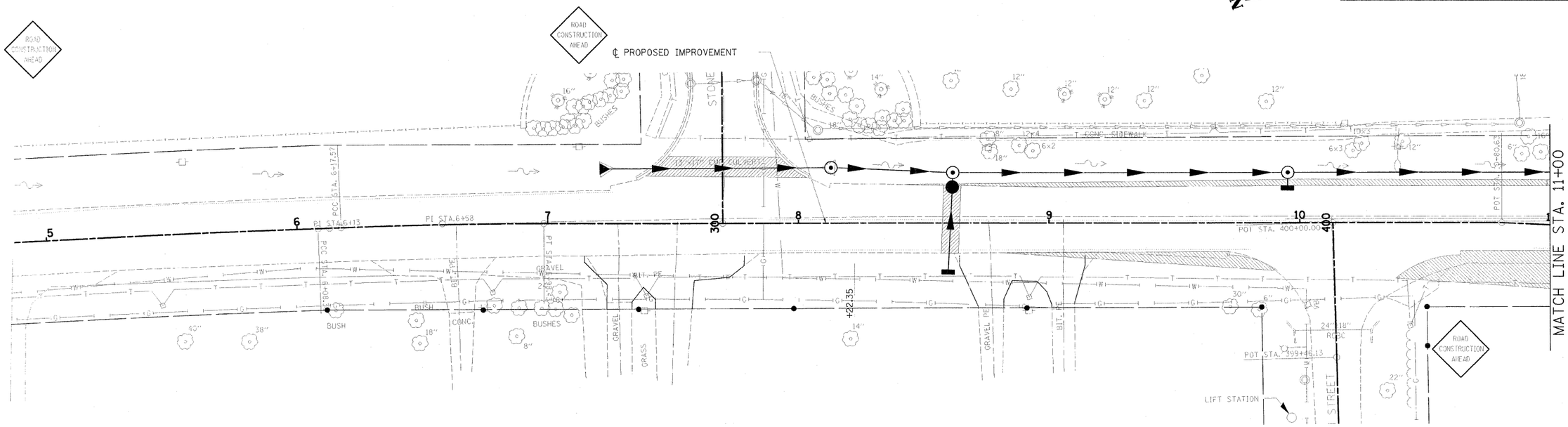
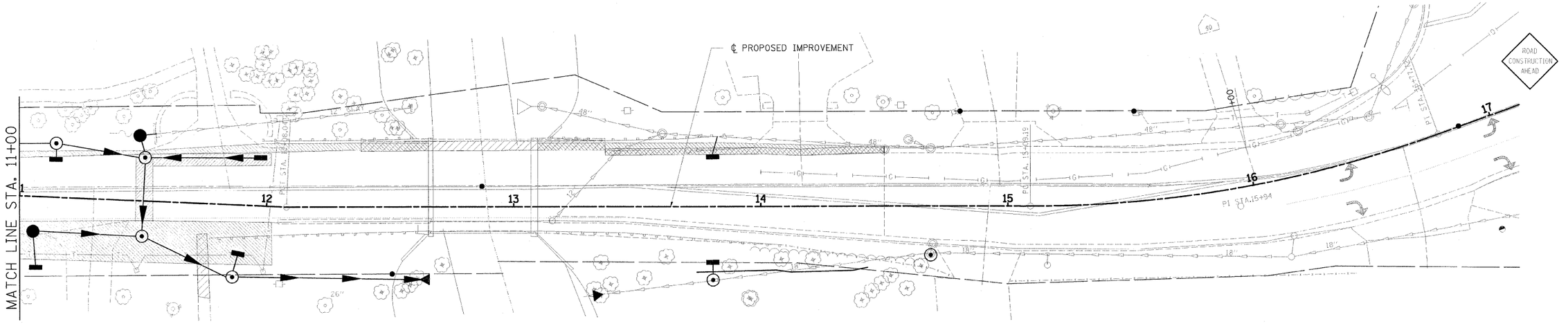
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
5				

F.A.U. 2503	(35)BR-2	KENDALL	129	20





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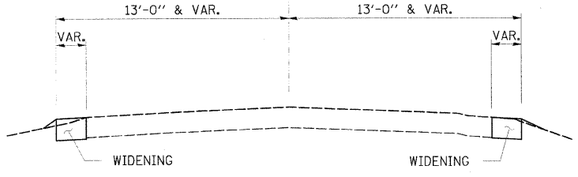


TYPICAL SECTION PRESTAGE 1
STA. 8+22.35 TO STA. 14+50.00

LEGEND

- CLASS D PATCH, TYPE III & IV, 12 INCH
- WIDENING (HMA BASE COURSE, 10")
- SIDEWALK REMOVAL
- CONCRETE SIDEWALK REMOVAL AND WIDENING

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

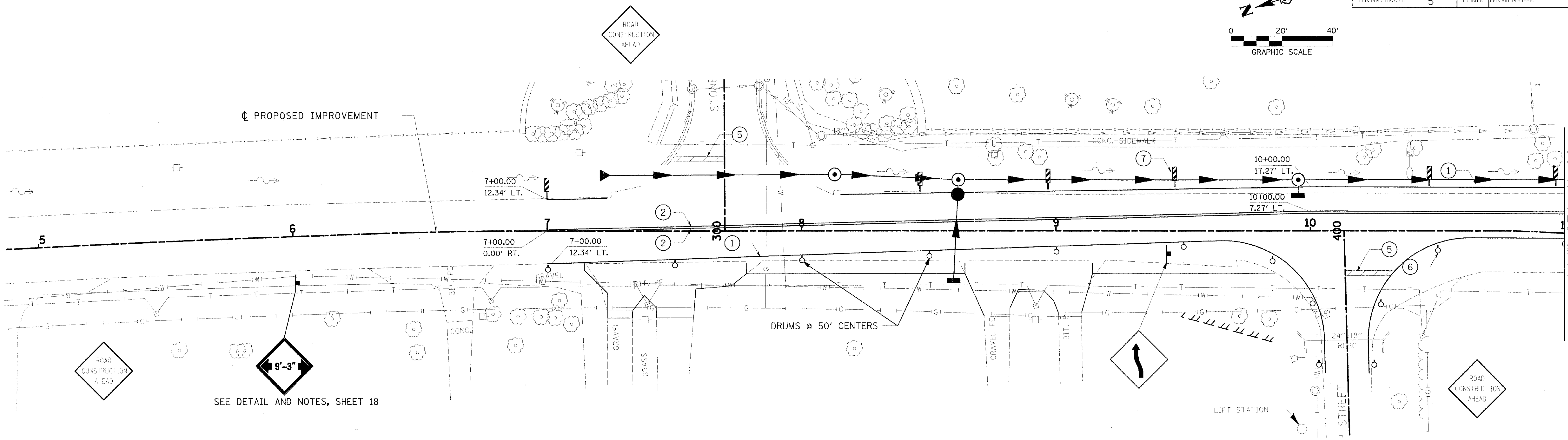
PROJECT NUMBER: 12-06-0029-i		DATE: 06/01/07
DESIGNED: LFS	CHECKED:	DRAWN: TWK

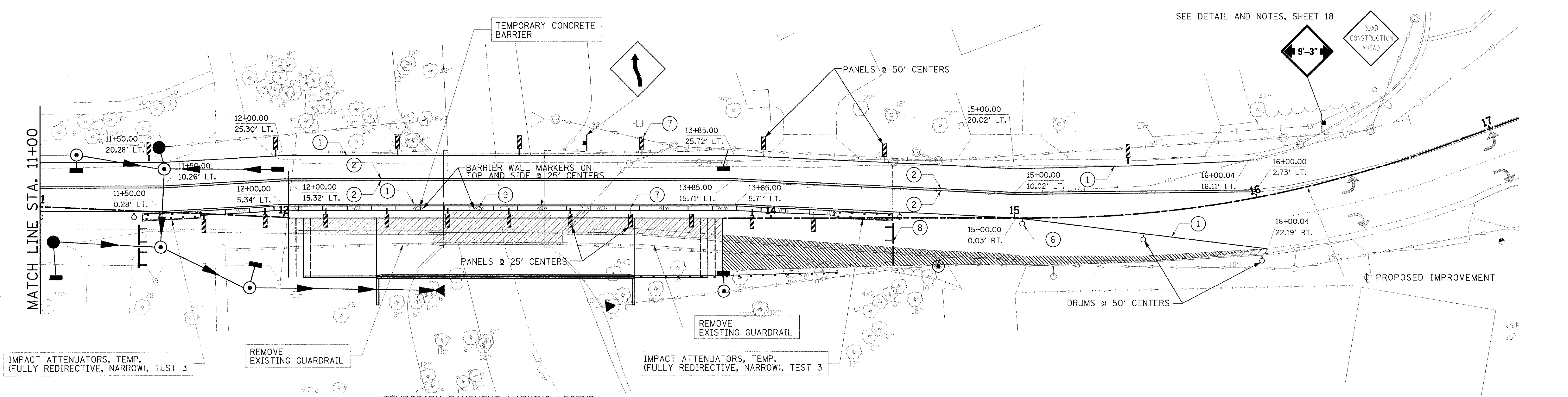
STAGING PLANS
PRE-STAGE 1
SECTION (35) BR-2
IL 25 OVER WAUBONSEE CREEK
KENDALL COUNTY

CONTRACT NO. 66399

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	129	21
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT-		

0 20' 40'
GRAPHIC SCALE





TEMPORARY PAVEMENT MARKING LEGEND

1 TEMPORARY PAINT PAVEMENT MARKING LINE 4" (WHITE)
2 TEMPORARY PAINT PAVEMENT MARKING LINE 4" (YELLOW)
3 TEMPORARY PAINT PAVEMENT MARKING LINE 12" (SOLID WHITE DIAGONAL @ 20' CENTERS)
4 TEMPORARY PAINT PAVEMENT MARKING LINE 12" (SOLID YELLOW DIAGONAL @ 20' CENTERS)
5 TEMPORARY PAINT PAVEMENT MARKING LINE 24" (WHITE)
6 BARRICADE OR DRUM WITH MONODIRCTIONAL STEADY BURNING LIGHT
7 VERTICAL PANEL WITH MONODIRECTIONAL STEADY BURNING LIGHT
8 TYPE III BARRICADE
9 BARRIER WALL MARKER, TYPE C

LEGEND

REMOVAL: BRIDGE / CURB & GUTTER
PCC WIDENING
REMOVAL WITH WIDENING

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
HLR
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-1	DATE: 06/01/07
DESIGNED: LFS / CHECKED:	DRAWN: TWK

STAGING PLANS & TRAFFIC CONTROL STAGE 1

SECTION (35) BR-2
IL 25 OVER WAUBONSEE CREEK
KENDALL COUNTY

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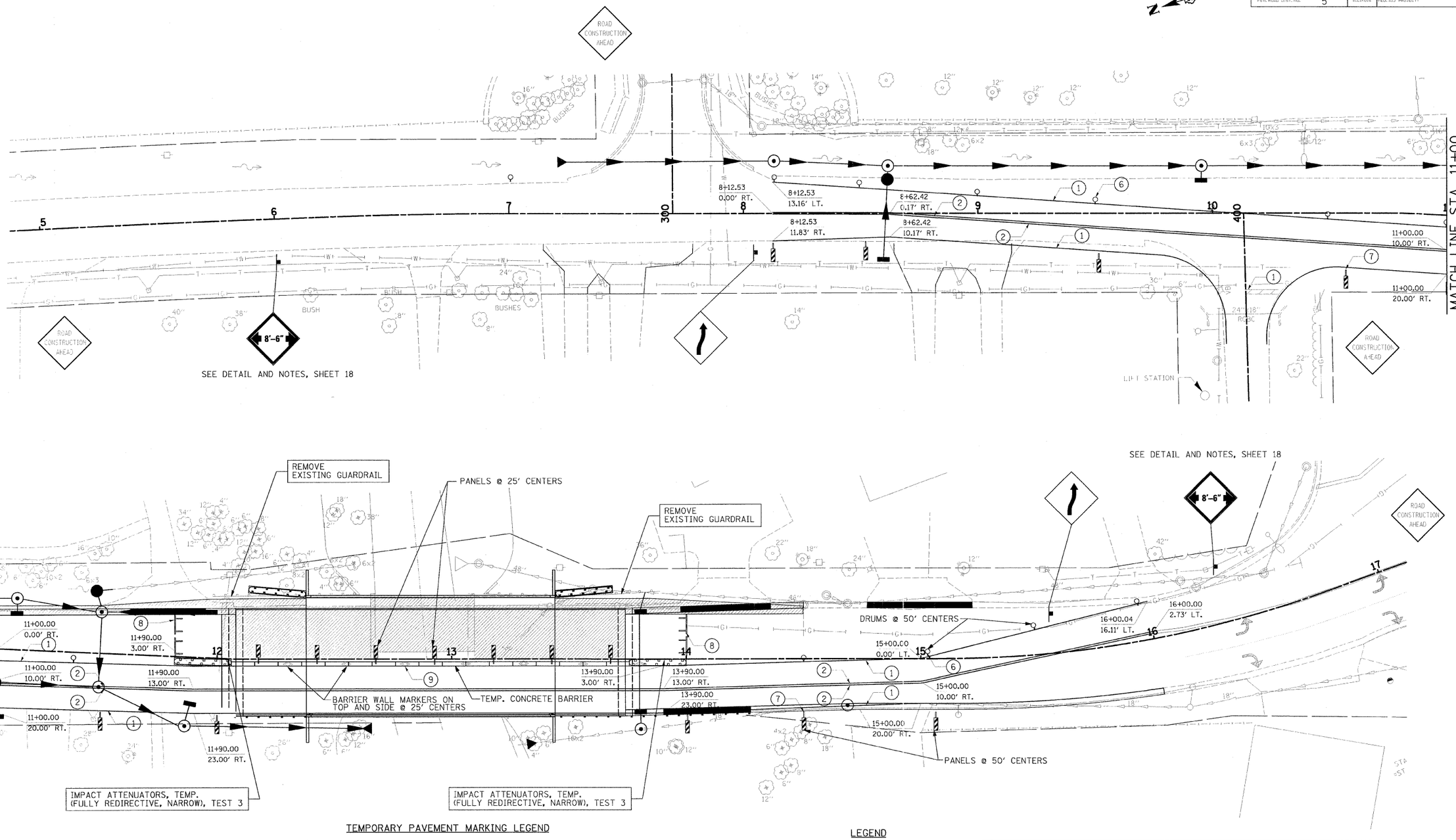
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	129	22
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		



TEMPORARY PAVEMENT MARKING LEGEND

1 TEMPORARY PAINT PAVEMENT MARKING LINE 4" (WHITE)
2 TEMPORARY PAINT PAVEMENT MARKING LINE 4" (YELLOW)
3 TEMPORARY PAINT PAVEMENT MARKING LINE 12" (SOLID WHITE DIAGONAL @ 20' CENTERS)
4 TEMPORARY PAINT PAVEMENT MARKING LINE 12" (SOLID YELLOW DIAGONAL @ 20' CENTERS)
5 TEMPORARY PAINT PAVEMENT MARKING LINE 24" (WHITE)
6 BARRICADE OR DRUM WITH MONODIRCTIONAL STEADY BURNING LIGHT
7 VERTICAL PANEL WITH MONODIRECTIONAL STEADY BURNING LIGHT
8 TYPE III BARRICADE
9 BARRIER WALL MARKER, TYPE C

LEGEND

REMOVAL: BRIDGE / PAVEMENT

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i		DATE: 06/01/07
DESIGNED: LFS	CHECKED:	DRAWN: TWK

STAGING PLANS & TRAFFIC CONTROL STAGE 2

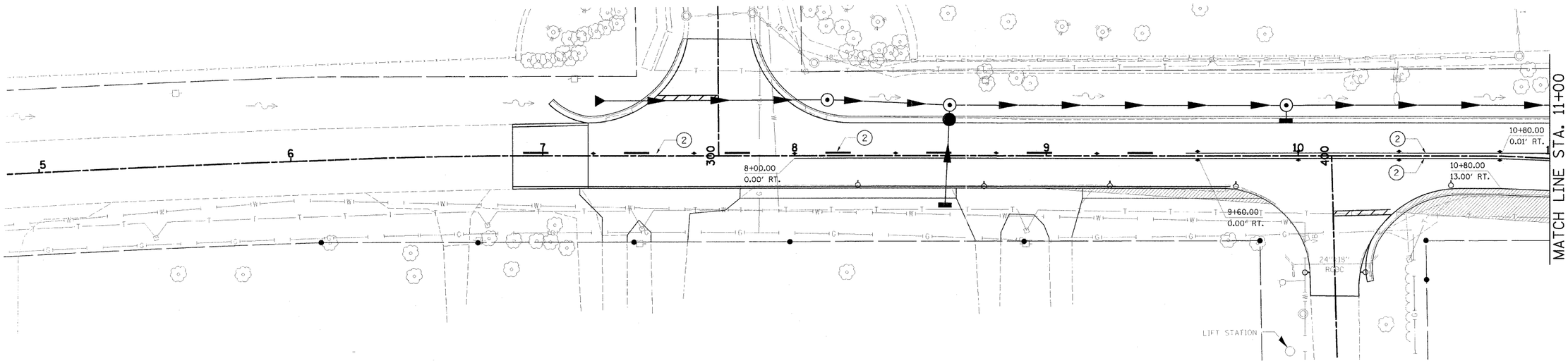
SECTION (35) BR-2

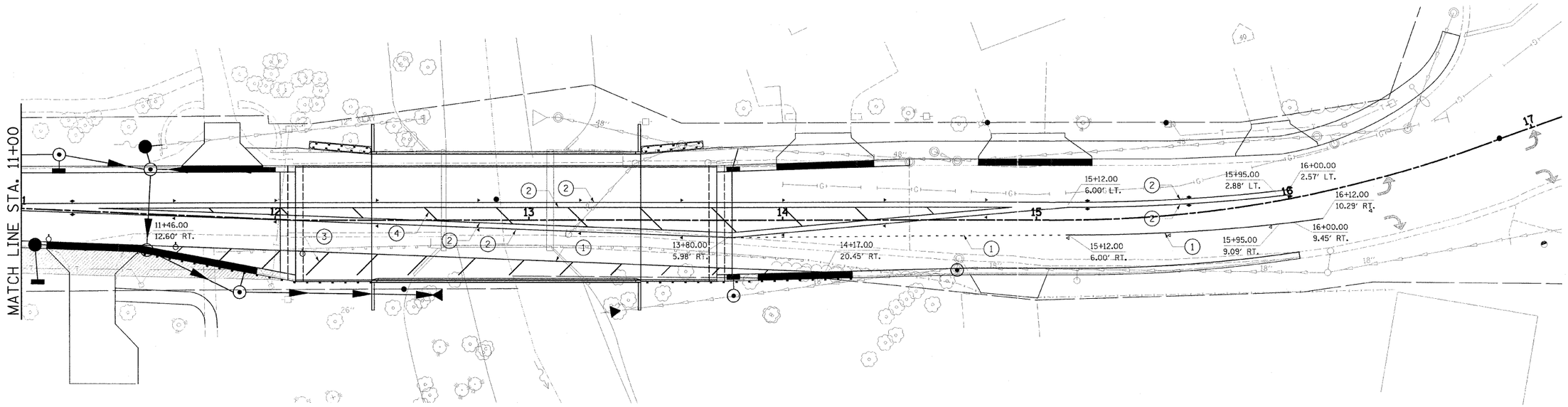
IL 25 OVER WAUBONSEE CREEK

KENDALL COUNTY

PLOT DATE: 1/31/2008 FILE NAME: P:\12-1-1\06029-sht-stage2.dgn

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	129	23
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		





TEMPORARY PAVEMENT MARKING LEGEND

1 TEMPORARY PAINT PAVEMENT MARKING LINE 4" (WHITE)
2 TEMPORARY PAINT PAVEMENT MARKING LINE 4" (YELLOW)
3 TEMPORARY PAINT PAVEMENT MARKING LINE 12" (SOLID WHITE DIAGONAL @ 20' CENTERS)
4 TEMPORARY PAINT PAVEMENT MARKING LINE 12"(SOLID YELLOW DIAGONAL @ 20' CENTERS)
5 BARRICADE OR DRUM WITH MONODIRCTIONAL STEADY BURNING LIGHTS @ 50' CENTERS
6 VERTICAL PANEL @ 50' CENTERS
7 TYPE III BARRICADE

LEGEND

WIDENING REMOVAL

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i	DATE: 06/01/07
DESIGNED: LFS	CHECKED: DRAWN: TWK

STAGING PLANS & TRAFFIC CONTROL STAGE 3

SECTION (35) BR-2

IL 25 OVER WAUBONSEE CREEK

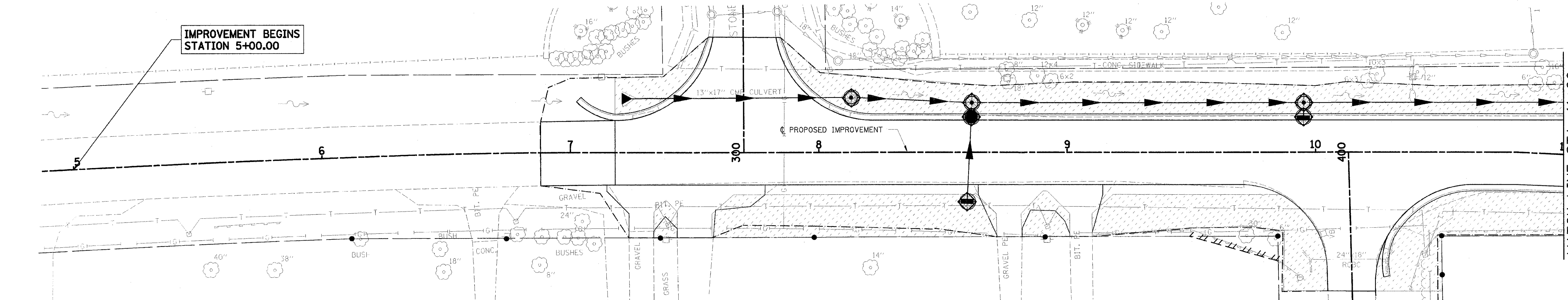
KENDALL COUNTY

CONTRACT NO. 66399

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 2503	(35)BR-2	KENDALL	129	24
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT-		

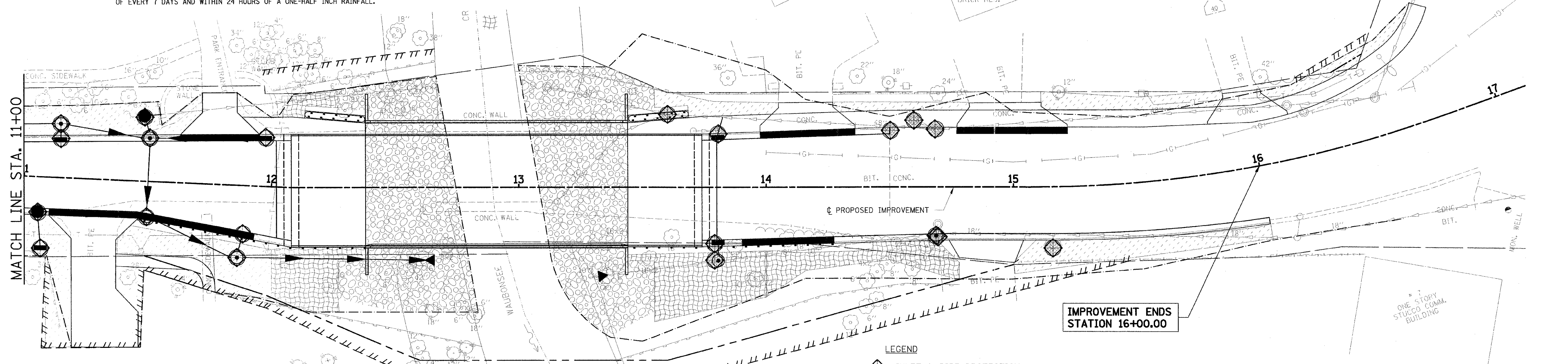
EROSION CONTROL PLAN & STORMWATER POLLUTION PREVENTION PLAN

THIS PROJECT DISTURBS 1.16 ACRES OF TOTAL LAND AREA. COMPLIANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER PERMIT IS ONLY NECESSARY IF A PROJECT DISTURBS 1 OR MORE ACRES OF TOTAL LAND AREA. THIS PROJECT WILL REQUIRE AN NPDES PERMIT. SEE SWPPP IN SPECIAL PROVISIONS.



GENERAL NOTES FOR SOIL EROSION CONTROL

1. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
2. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER.
3. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
4. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE CONTRACTOR SHALL INSPECT AND COMPLETE MAINTENANCE OF ALL ITEMS A MINIMUM OF EVERY 7 DAYS AND WITHIN 24 HOURS OF A ONE-HALF INCH RAINFALL.
5. THE CONTRACTOR SHALL CLEAN UP AND GRADE THE WORK AREA AS THE PROJECT PROGRESSES TO ELIMINATE THE CONCENTRATION OF RUNOFF. THE PAVEMENT SHALL BE CLEANED DAILY TO REMOVE EARTH MATERIAL TO THE SATISFACTION OF THE ENGINEER.
6. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 14 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE.
7. AREAS OR EMBANKMENTS HAVING SLOPES GREATER 3H:1V SHALL BE STABILIZED WITH EROSION CONTROL BLANKET IN COMBINATION WITH SEEDING.
8. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.



LEGEND

- INLET & PIPE PROTECTION
- INLET FILTERS
- PERIMETER EROSION BARRIER
- SODDING SALT TOLERANT (SPECIAL)
- SEEDING CLASS 1 AND EROSION CONTROL BLANKET

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i	DATE: 06/01/07
DESIGNED: LFS / CHECKED:	DRAWN: WJS

EROSION CONTOL PLAN

SECTION (35) BR-2
IL 25 OVER WAUBONSEE CREEK
KENDALL COUNTY

06029-sht-erosion.dgn 1/31/2008 2:20:09 PM

Bench Mark: Box cut on top of NW corner on North headwall of culvert under North Street at IL 25: Elev. 626.37

Existing Structure: #047-0034, built originally in year 1924, as S.B.I. Rte. 18 Sec. 12 EXT, at Sta. 12+87. In 1976, the old R.C. Deck Girder superstructure was removed and the closed abuts. substructure rebuilt to accommodate a new widened P.P.C. Deck Beam superstructure, 43'-0" bk.-bk. abuts. and 38'-0" o.-o. Scope of Work: The Contractor shall remove the existing structure and construct a new single span 63 in. P.P.C. Bulb-T Beam superstructure on integral abuts. Traffic is to be maintained using stage construction.

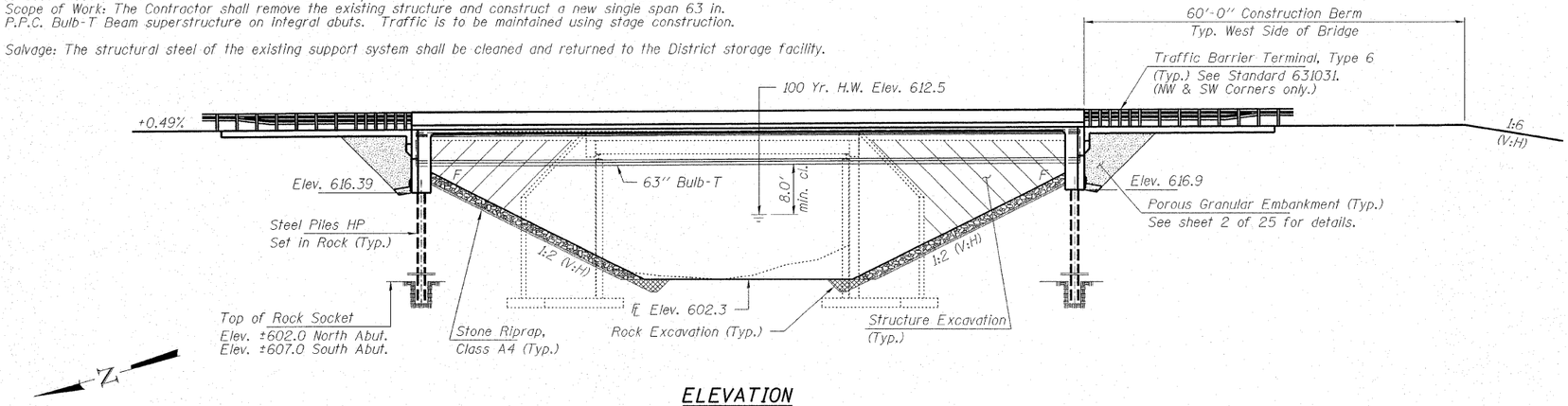
Salvage: The structural steel of the existing support system shall be cleaned and returned to the District storage facility.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

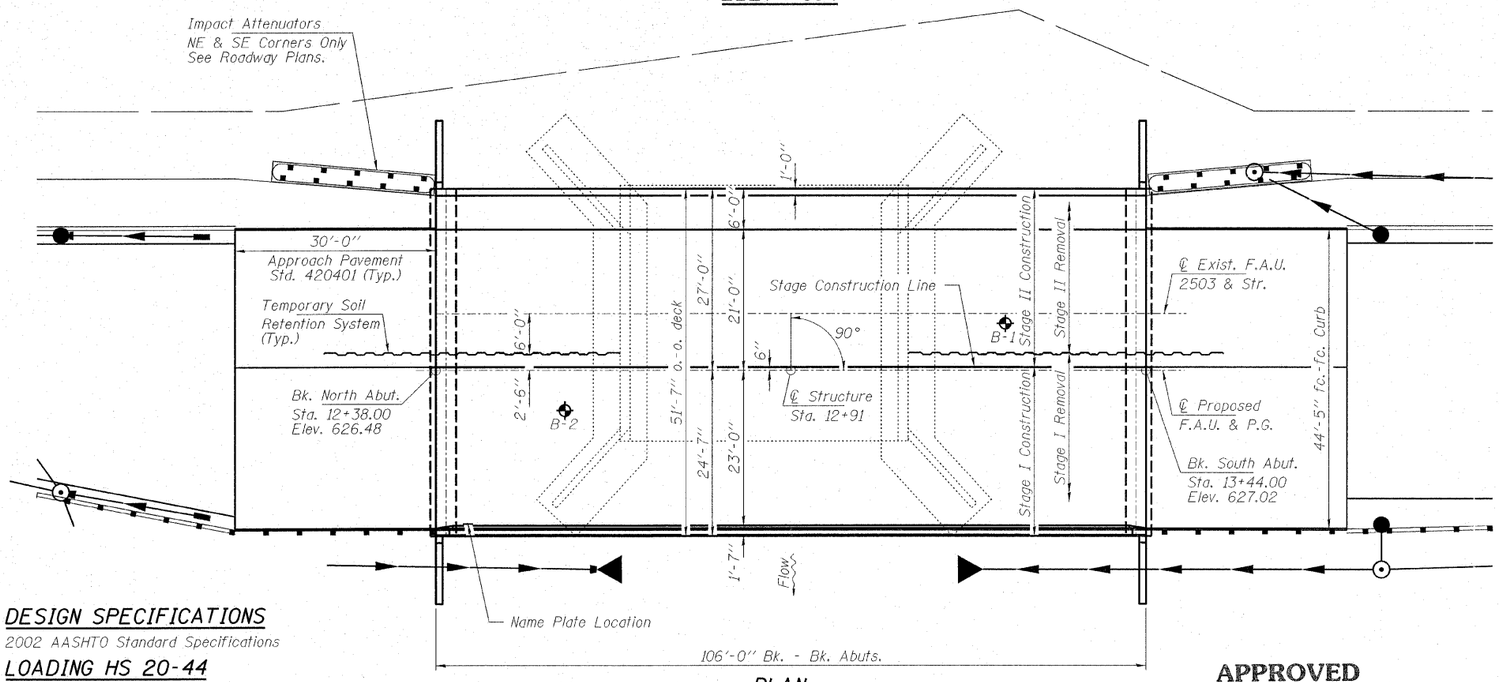
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	25
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
25 SHEETS

Contract No. 66399



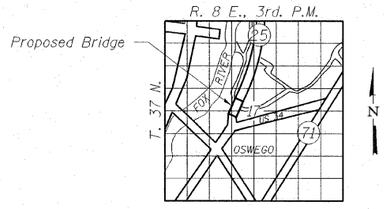
ELEVATION



PLAN

Note: For riprap layout see sheet 2 of 25.

INDEX OF STRUCTURE SHEETS



LOCATION SKETCH

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		282	282
Stone Riprap, Class A4	Sq. Yd.			1,115
Filter Fabric	Sq. Yd.			1,331
Removal of Existing Structures	Each			1
Concrete Structures	Cu. Yd.		58.0	58.0
Concrete Superstructure	Cu. Yd.	243.0		243.0
Bridge Deck Grooving	Sq. Yd.	495		495
Protective Coat	Sq. Yd.	661		661
Furnishing & Erecting P.P.C. Bulb-T Beams 63"	Foot	835		835
Reinforcement Bars, Epoxy Coated	Pound	33,830	8,000	41,830
Furnishing Steel Piles HP12x63	Foot		376	376
Name Plates	Each		1	1
Temporary Soil Retention System	Sq. Ft.			1133
Bar Splicers	Each	370	26	396
Geocomposite Wall Drain	Sq. Yd.		122	122
Pipe Underdrain for Structures 4"	Foot		192	192
Aluminum Railing, Type L	Foot	104		104
Structure Excavation	Cu. Yd.		520	520
Setting Piles in Rock	Each		16	16
Concrete Encasement	Cu. Yd.		5.6	5.6
Asbestos Bearing Pad Removal	Each		24	24
Steel Railing (Temporary)	Foot	86		86

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications

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 (Reinf.)

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
f'ci = 5,000 psi
f's = 270,000 psi (½"ϕ low lax. strands)
f'si = 201,960 psi (½"ϕ low lax. strands)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.04g
Site Coefficient (S) = 1.5

WATERWAY INFORMATION

Drainage Area = 28.0 Sq. Mi. Low Grade Elev. 626.3 @ Sta. 12+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Natural H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	50	1,800	336	513	611.95	0.4	0.2	612.35	612.15
Base	100	1,979	348	534	612.25	0.4	0.2	612.65	612.45
Max. Calc.	500	2,361	372	579	612.85	0.4	0.1	613.25	612.95

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation	N. Abut.	S. Abut.
	602.3	602.3

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

Steven W. Megginson 3-4-08
ILLINOIS STRUCTURAL NO. 081-6064

Expires 11-30-08

LICENSED STRUCTURAL ENGINEER
STEVEN W. MEGGINSON
081-6064
SPRINGFIELD, IL
STATE OF ILLINOIS

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i	DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.
	DRAWN: D.A.B.

GENERAL PLAN AND ELEVATION

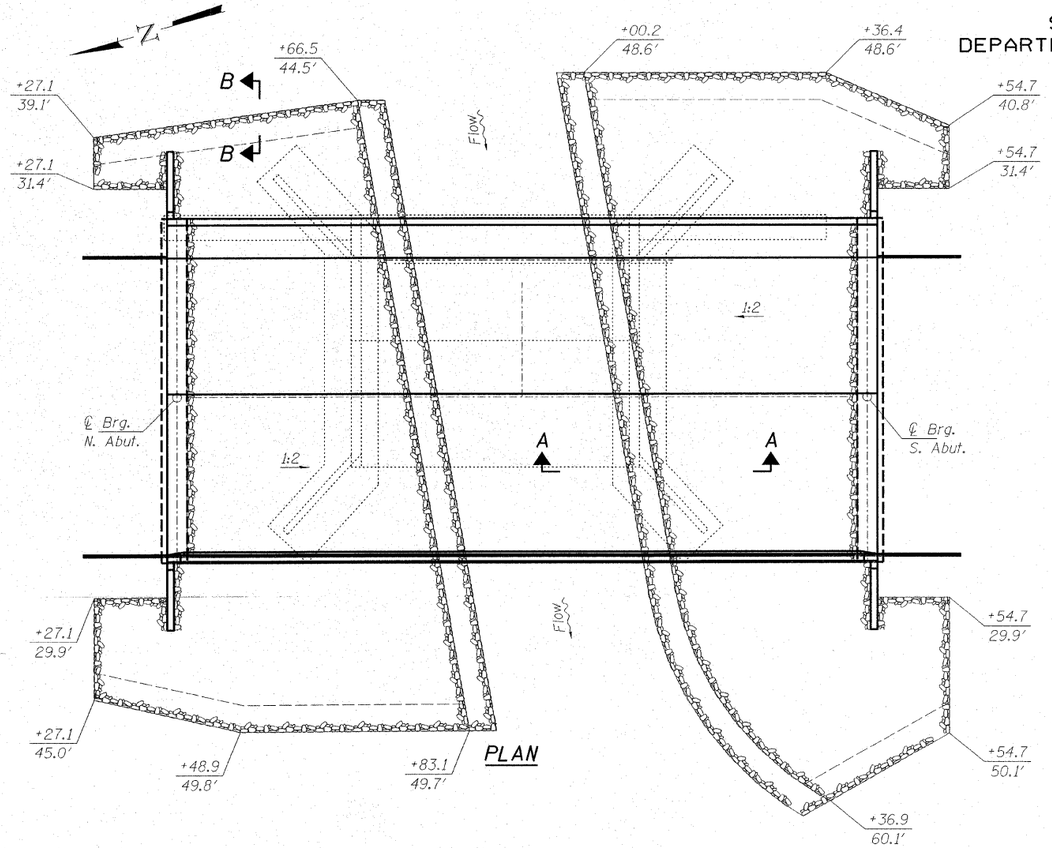
IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

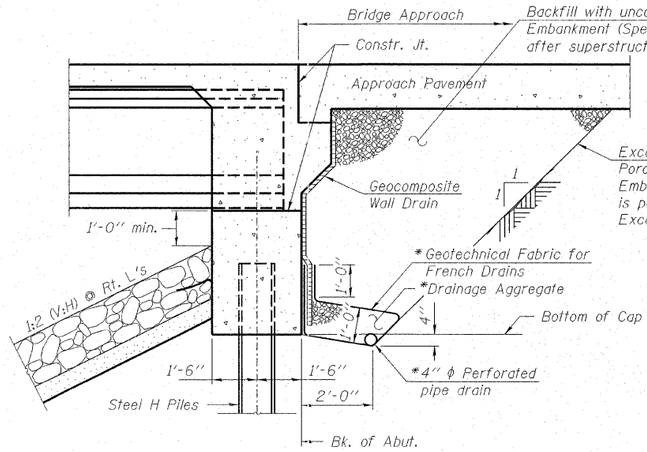
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	26
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 2
25 SHEETS

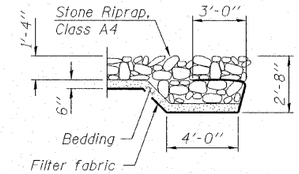
Contract No. 66399



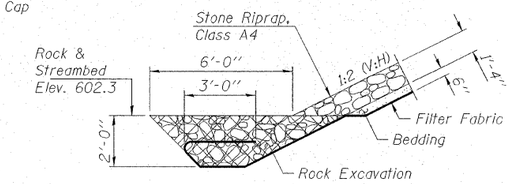
PLAN



SECTION THRU INTEGRAL ABUTMENT



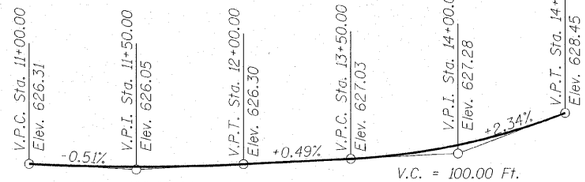
SECTION B-B



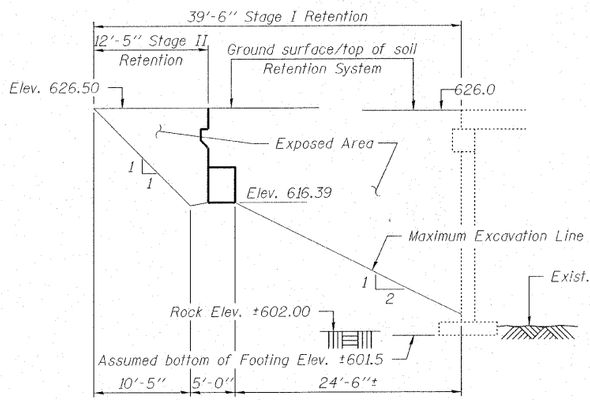
SECTION A-A

* Included in the cost of Pipe Underdrains for Structures.

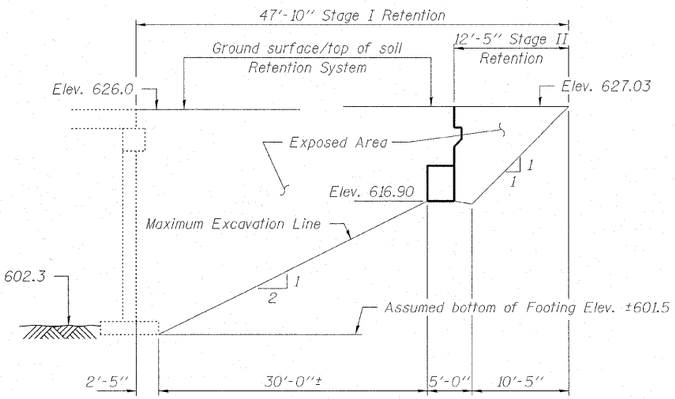
Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



PROFILE GRADE
Proposed F.A.U. 2503



NORTH ABUTMENT



SOUTH ABUTMENT

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

TEMPORARY SOIL RETENTION SYSTEM

WAUBONSEE CREEK
STATION 12+91.00
BUILT 200_ BY
STATE OF ILLINOIS
FAU RTE. 2503 (IL 25)
SEC. (35) BR-2
STR. NO. 047-0062 LOADING HS 20

NAME PLATE
See Std. 515001

GENERAL NOTES

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

Reinforcement bars designated (E) shall be epoxy coated.

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

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

HAMPTON, LENZINI & RENWICK, INC.
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ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-1	DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.
	DRAWN: D.A.B.

GENERAL DETAILS

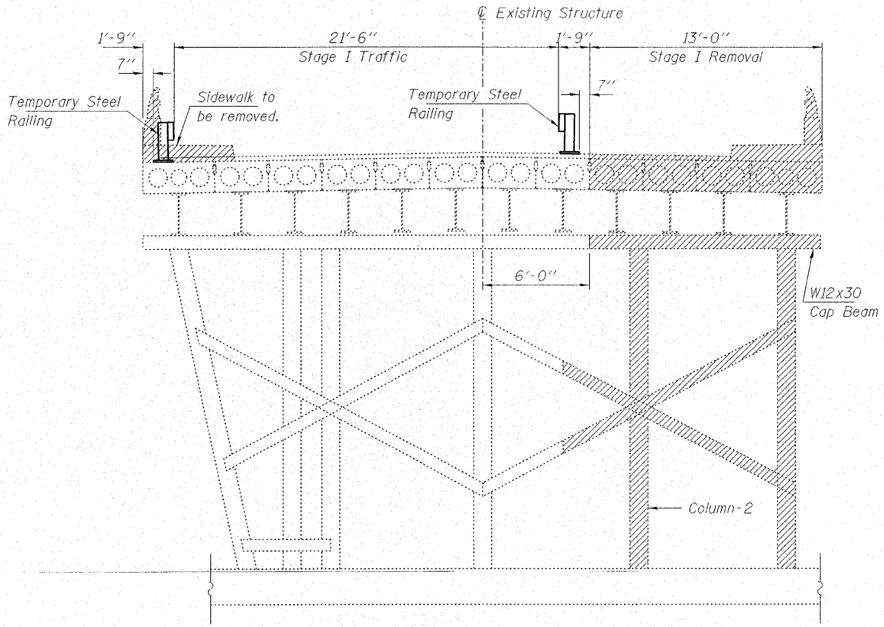
IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	27
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 3
25 SHEETS

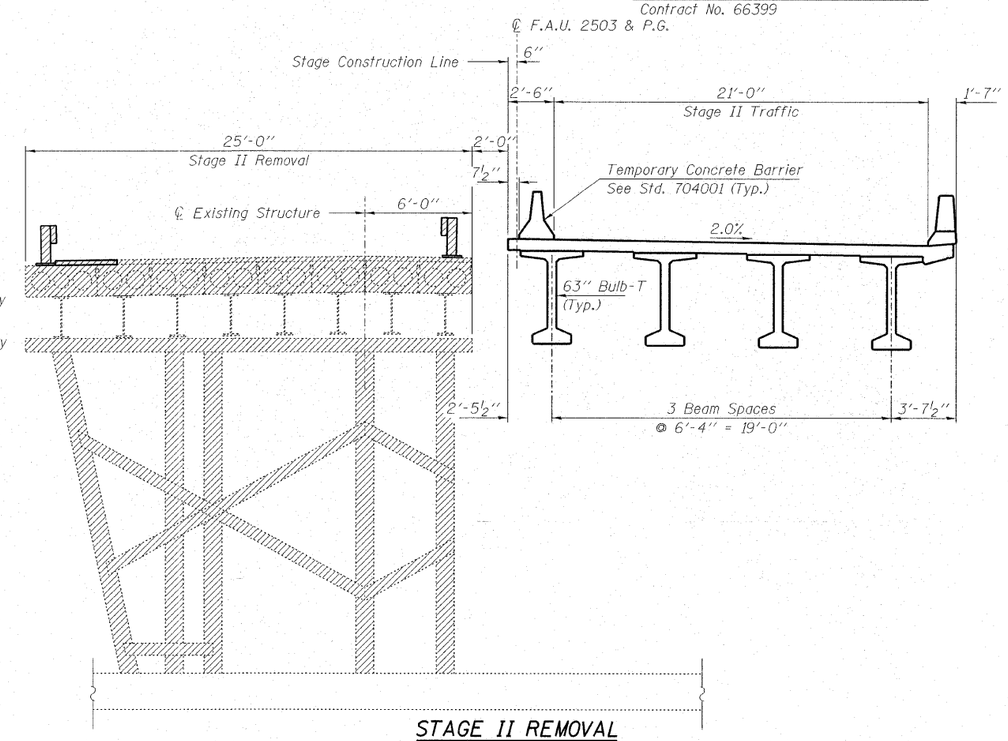
Contract No. 66399



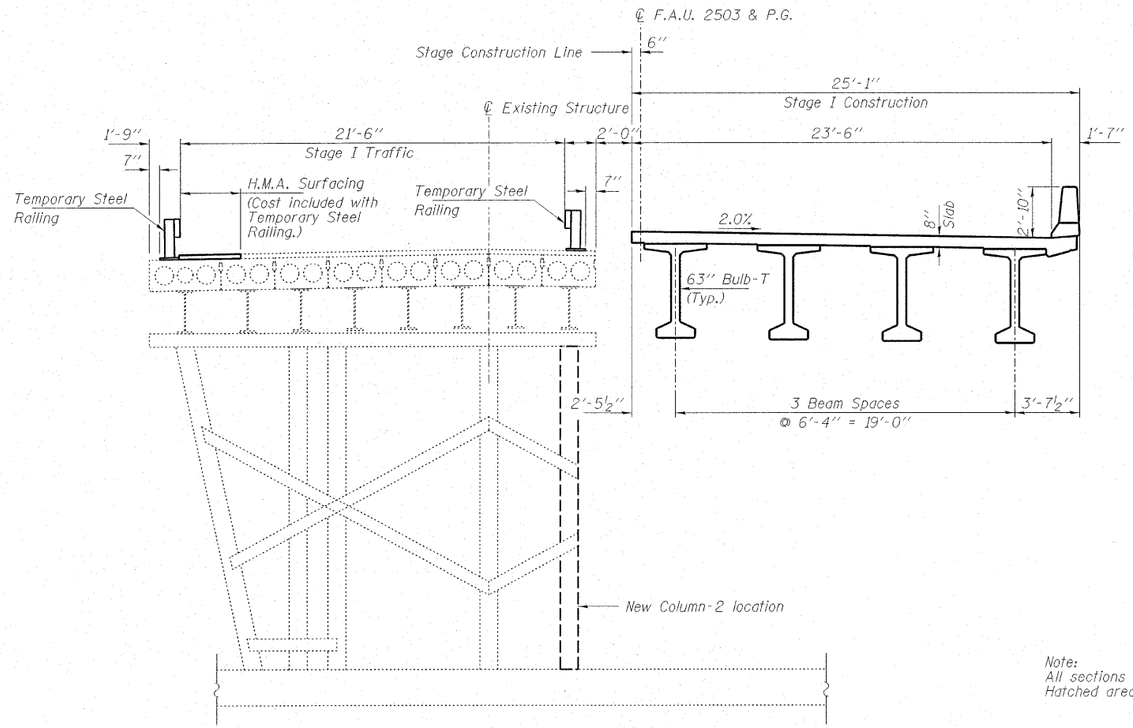
STAGE I REMOVAL

Stage I demolition will occur as follows:

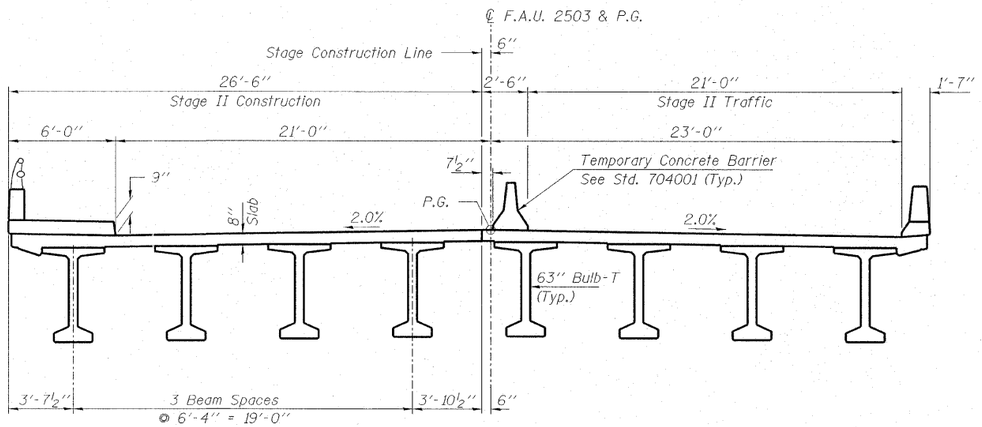
1. *Remove the Stage I Removal items: PPC deck beams, sidewalk, railing and the steel WF support beams.*
2. *Temporarily support and jack the W12x30 Cap Beam on the west side of column 2. This support and jacking system shall be designed and sealed by a licensed structural Engineer in Illinois.*
3. *Disconnect column 2 and slide the column to the east edge of the stage construction line. This column shall then be reconnected to the Cap Beam and the Cross Braces directly beneath the western most temporary support beam, as per the original IDOT details. Once the column has been reconnected the temporary support and jack may be removed.*
4. *Cut the Cap Beam and Cross Braces at the stage line.*
5. *Remove the Cap Beam, Cross Braces and column under the Stage I Construction.*



STAGE II REMOVAL



STAGE I CONSTRUCTION



STAGE II CONSTRUCTION

Note:
All sections are looking south.
Hatched areas indicate removal.

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LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-08-0029-i	DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.	DRAWN: D.A.B.

STAGE CONSTRUCTION DETAILS

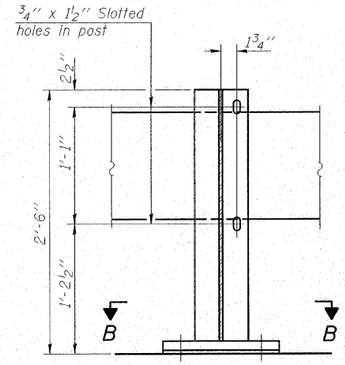
IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

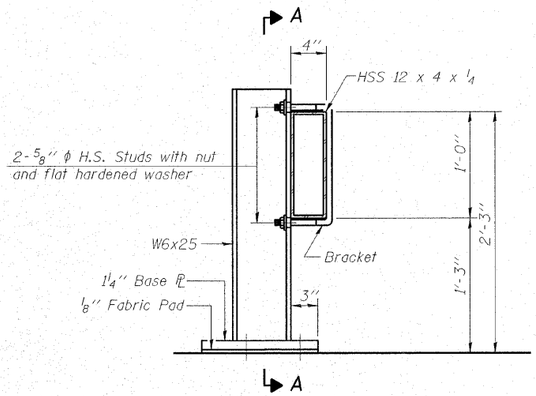
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	28
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 4
25 SHEETS

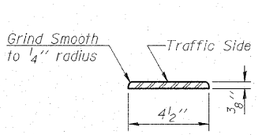
Contract No. 66399



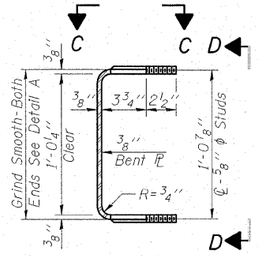
SECTION A-A



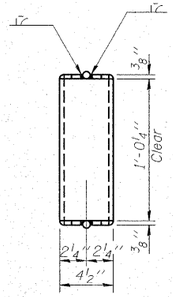
SECTION AT RAIL POST



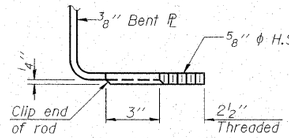
DETAIL A



SECTION THRU BRACKET



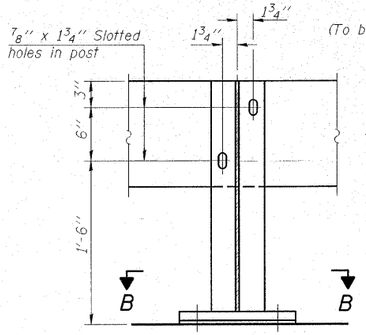
VIEW D-D



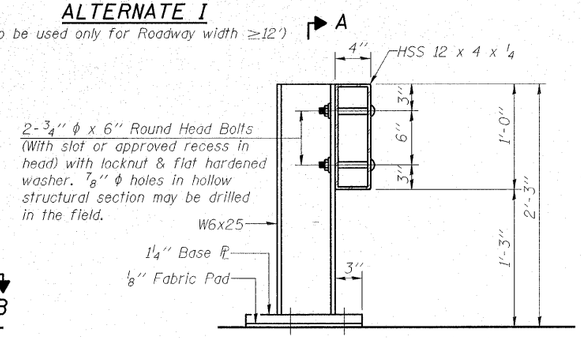
VIEW E-E

Notes:
The contact surfaces between post flange, rail and inside face of bracket for Alternate I shall be free of all lubricants.
The nut for 5/8" ϕ high strength studs used in Alternate I to connect bracket to post shall be tightened to a snug fit and given an additional one half turn.

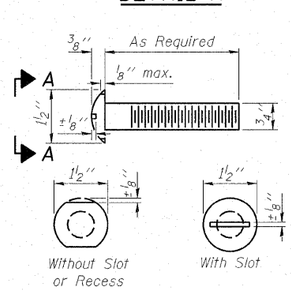
ALTERNATE I
(To be used only for Roadway width ≥12')



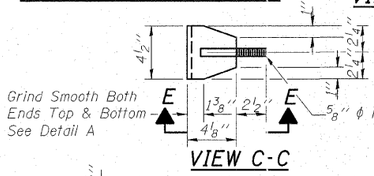
SECTION A-A



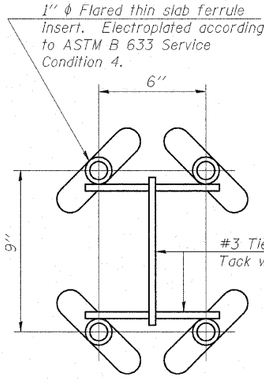
SECTION AT RAIL POST



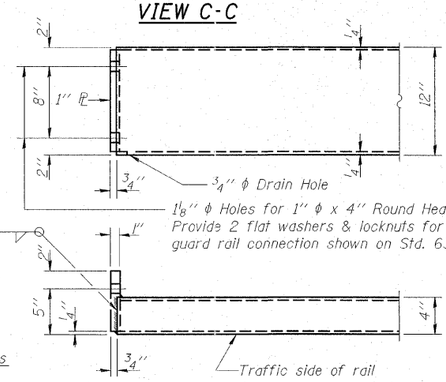
VIEW A-A
ROUND HEAD BOLT



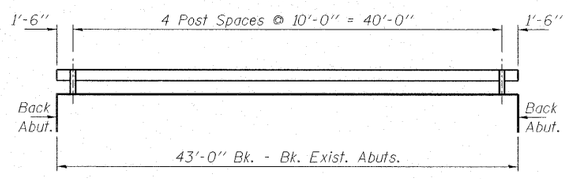
VIEW C-C



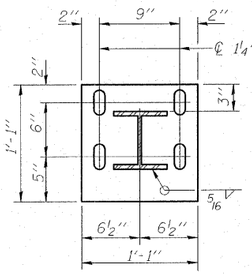
INSERT DETAIL



END OF RAIL DETAILS



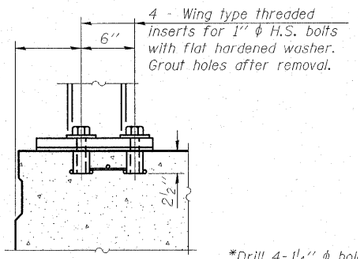
TEMPORARY BRIDGE RAIL POST SPACING



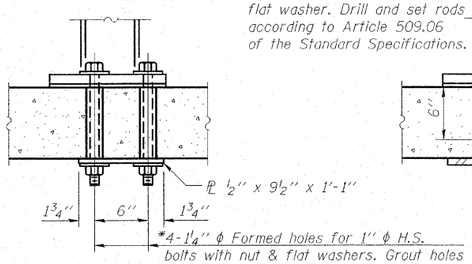
*Drilled holes for existing deck.

SECTION B-B

ALTERNATE II

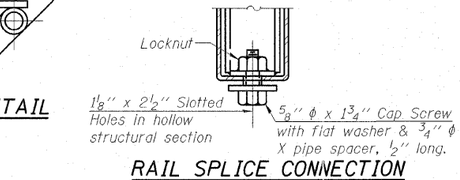


P.P.C. DECK BEAMS

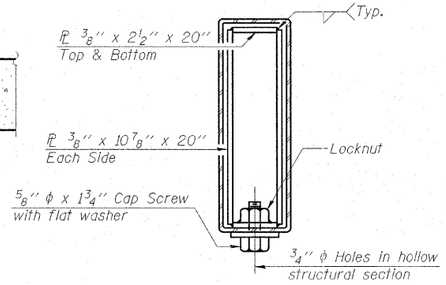


NEW & EXISTING DECKS

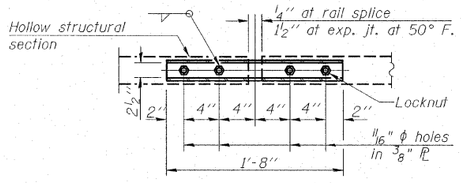
ANCHORAGE DETAILS



RAIL SPLICE CONNECTION AT EXPANSION JT.



SECTION AT RAIL SPLICE



PLAN-BOTT. SPLICE PL
TYPICAL

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing (Temporary)	Foot	86.0

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(217) 546-3400
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PROJECT NUMBER: 12-06-0029-1	DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.	DRAWN: D.A.B.

STEEL RAILING (TEMPORARY)

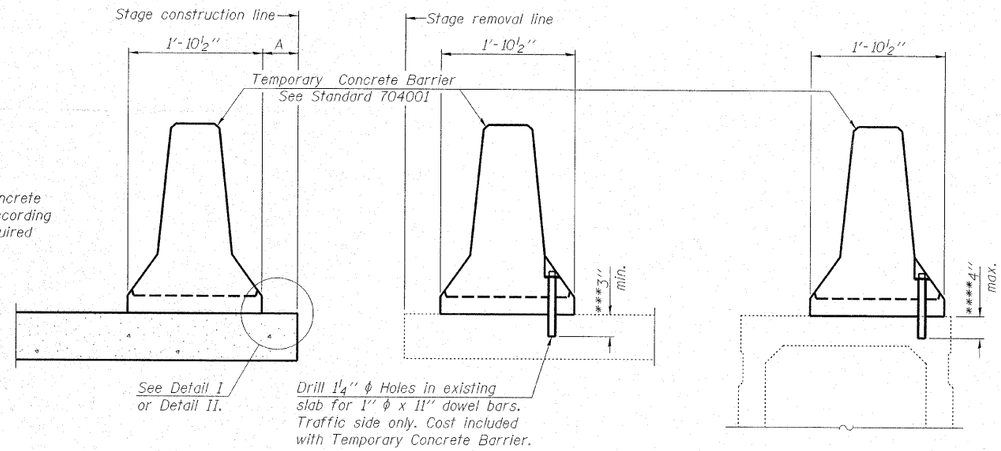
IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	29
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 5
25 SHEETS

Contract No. 66399



NEW SLAB | EXISTING SLAB | EXISTING DECK BEAM

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

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel ℙ 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"x7"x10" steel ℙ 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.

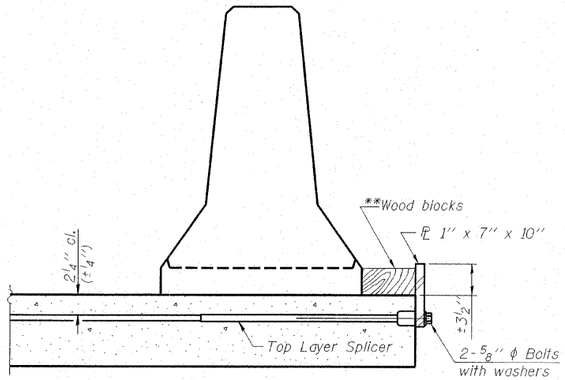
The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

Quantitiy of Temporary Concrete Barrier is included with Roadway Plans.

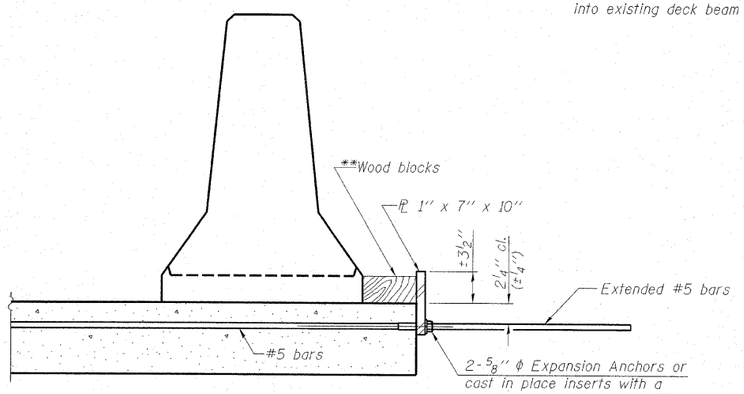
SECTIONS THRU SLAB OR DECK BEAM

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

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

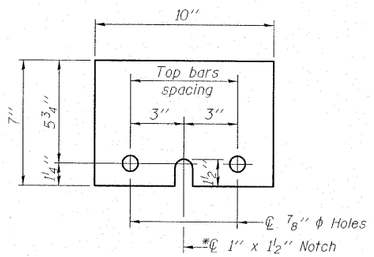


DETAIL I



DETAIL II

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



STEEL RETAINER ℙ 1" x 7" x 10"

* Required only with Detail II

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LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-1		DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.	DRAWN: D.A.B.

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION

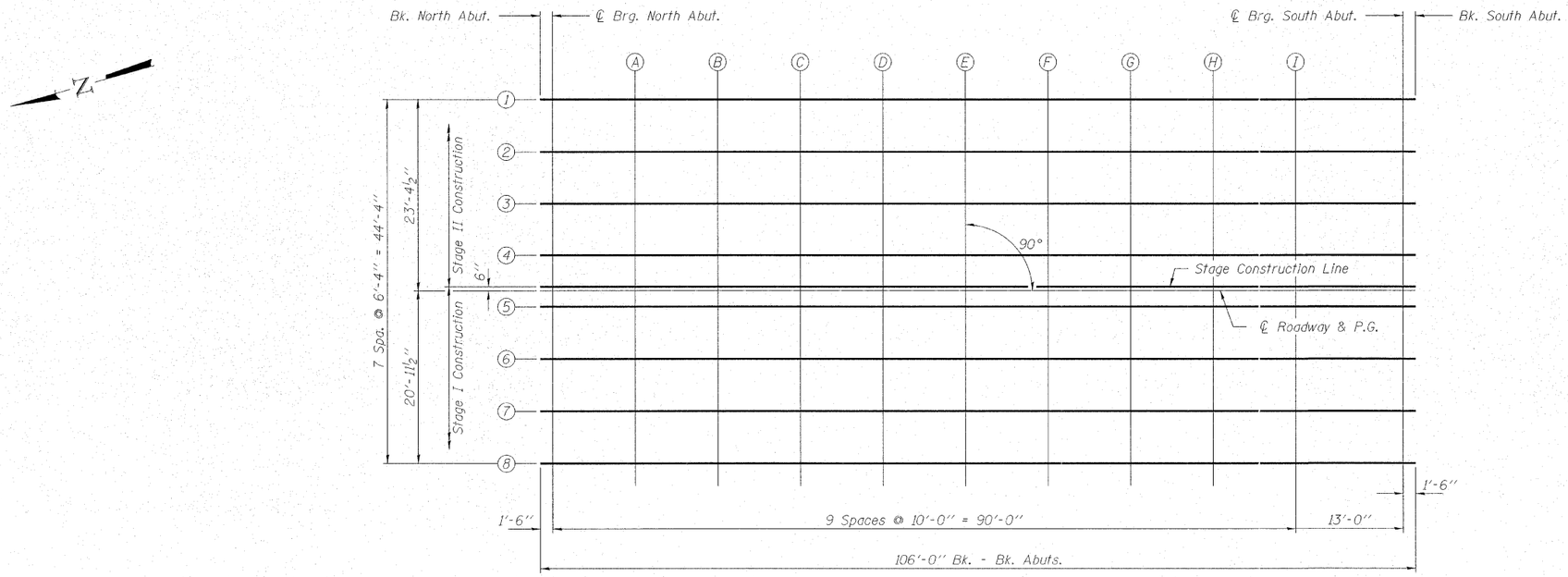
IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	30
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 6
25 SHEETS

Contract No. 66399

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



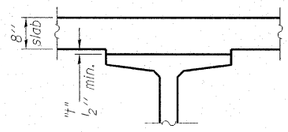
PLAN

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	12+38.00	-23.375	626.016	626.016
℄ Brg. N. Abut.	12+39.50	-23.375	626.024	626.024
A	12+49.50	-23.375	626.073	626.094
B	12+59.50	-23.375	626.122	626.164
C	12+69.50	-23.375	626.171	626.229
D	12+79.50	-23.375	626.220	626.286
E	12+89.50	-23.375	626.269	626.344
F	12+99.50	-23.375	626.318	626.387
G	13+09.50	-23.375	626.367	626.427
H	13+19.50	-23.375	626.416	626.464
I	13+29.50	-23.375	626.465	626.492
℄ Brg. S. Abut.	13+42.50	-23.375	626.543	626.543
Bk. S. Abut.	13+44.00	-23.375	626.554	626.554

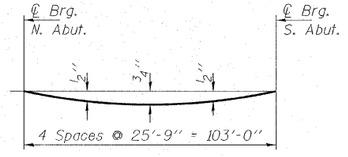
BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	12+38.00	-17.042	626.143	626.143
℄ Brg. N. Abut.	12+39.50	-17.042	626.150	626.150
A	12+49.50	-17.042	626.199	626.221
B	12+59.50	-17.042	626.248	626.291
C	12+69.50	-17.042	626.297	626.356
D	12+79.50	-17.042	626.346	626.413
E	12+89.50	-17.042	626.395	626.471
F	12+99.50	-17.042	626.444	626.514
G	13+09.50	-17.042	626.493	626.554
H	13+19.50	-17.042	626.542	626.591
I	13+29.50	-17.042	626.591	626.619
℄ Brg. S. Abut.	13+42.50	-17.042	626.669	626.669
Bk. S. Abut.	13+44.00	-17.042	626.681	626.681



STANDARD FILLET DETAIL

To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown on sheets 6 through 8 of 25. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" minus slab thickness, equals the fillet heights "t" above top flanges of beams.



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, 7 & 8 of 25.

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(217) 546-3400
HLR
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i	DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.	DRAWN: D.A.B.

TOP OF SLAB ELEVATIONS

IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	31
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 7
25 SHEETS
Contract No. 66399

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	12+38.00	-10.708	626.270	626.270
℄ Brg. N. Abut.	12+39.50	-10.708	626.277	626.277
A	12+49.50	-10.708	626.326	626.347
B	12+59.50	-10.708	626.375	626.417
C	12+69.50	-10.708	626.424	626.482
D	12+79.50	-10.708	626.473	626.540
E	12+89.50	-10.708	626.522	626.597
F	12+99.50	-10.708	626.571	626.640
G	13+09.50	-10.708	626.620	626.681
H	13+19.50	-10.708	626.669	626.718
I	13+29.50	-10.708	626.718	626.746
℄ Brg. S. Abut.	13+42.50	-10.708	626.796	626.796
Bk. S. Abut.	13+44.00	-10.708	626.807	626.807

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	12+38.00	-4.375	626.396	626.396
℄ Brg. N. Abut.	12+39.50	-4.375	626.404	626.404
A	12+49.50	-4.375	626.453	626.474
B	12+59.50	-4.375	626.502	626.544
C	12+69.50	-4.375	626.551	626.609
D	12+79.50	-4.375	626.600	626.666
E	12+89.50	-4.375	626.649	626.724
F	12+99.50	-4.375	626.698	626.767
G	13+09.50	-4.375	626.747	626.807
H	13+19.50	-4.375	626.796	626.844
I	13+29.50	-4.375	626.845	626.872
℄ Brg. S. Abut.	13+42.50	-4.375	626.923	626.923
Bk. S. Abut.	13+44.00	-4.375	626.934	626.934

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	12+38.00	-0.500	626.474	626.474
℄ Brg. N. Abut.	12+39.50	-0.500	626.481	626.481
A	12+49.50	-0.500	626.530	626.551
B	12+59.50	-0.500	626.579	626.622
C	12+69.50	-0.500	626.628	626.686
D	12+79.50	-0.500	626.677	626.744
E	12+89.50	-0.500	626.726	626.802
F	12+99.50	-0.500	626.775	626.845
G	13+09.50	-0.500	626.824	626.885
H	13+19.50	-0.500	626.873	626.922
I	13+29.50	-0.500	626.922	626.950
℄ Brg. S. Abut.	13+42.50	-0.500	627.000	627.000
Bk. S. Abut.	13+44.00	-0.500	627.012	627.012

℄ ROADWAY & P.G.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	12+38.00	0	626.484	626.484
℄ Brg. N. Abut.	12+39.50	0	626.491	626.491
A	12+49.50	0	626.540	626.561
B	12+59.50	0	626.589	626.632
C	12+69.50	0	626.638	626.696
D	12+79.50	0	626.687	626.754
E	12+89.50	0	626.736	626.812
F	12+99.50	0	626.785	626.855
G	13+09.50	0	626.834	626.895
H	13+19.50	0	626.883	626.932
I	13+29.50	0	626.932	626.960
℄ Brg. S. Abut.	13+42.50	0	627.010	627.010
Bk. S. Abut.	13+44.00	0	627.022	627.022

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3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
HLR
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-1	DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.
	DRAWN: D.A.B.

TOP OF SLAB ELEVATIONS

IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	32
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 8
25 SHEETS

Contract No. 66399

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	12+38.00	1.958	626.445	626.445
℄ Brg. N. Abut.	12+39.50	1.958	626.452	626.452
A	12+49.50	1.958	626.501	626.522
B	12+59.50	1.958	626.550	626.592
C	12+69.50	1.958	626.599	626.657
D	12+79.50	1.958	626.648	626.715
E	12+89.50	1.958	626.697	626.772
F	12+99.50	1.958	626.746	626.815
G	13+09.50	1.958	626.795	626.856
H	13+19.50	1.958	626.844	626.893
I	13+29.50	1.958	626.893	626.921
℄ Brg. S. Abut.	13+42.50	1.958	626.971	626.971
Bk. S. Abut.	13+44.00	1.958	626.982	626.982

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	12+38.00	8.292	626.318	626.318
℄ Brg. N. Abut.	12+39.50	8.292	626.325	626.325
A	12+49.50	8.292	626.374	626.396
B	12+59.50	8.292	626.423	626.466
C	12+69.50	8.292	626.472	626.531
D	12+79.50	8.292	626.521	626.588
E	12+89.50	8.292	626.570	626.646
F	12+99.50	8.292	626.619	626.689
G	13+09.50	8.292	626.668	626.729
H	13+19.50	8.292	626.717	626.766
I	13+29.50	8.292	626.766	626.794
℄ Brg. S. Abut.	13+42.50	8.292	626.844	626.844
Bk. S. Abut.	13+44.00	8.292	626.856	626.856

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	12+38.00	14.625	626.191	626.191
℄ Brg. N. Abut.	12+39.50	14.625	626.199	626.199
A	12+49.50	14.625	626.248	626.269
B	12+59.50	14.625	626.297	626.339
C	12+69.50	14.625	626.346	626.404
D	12+79.50	14.625	626.395	626.461
E	12+89.50	14.625	626.444	626.519
F	12+99.50	14.625	626.493	626.562
G	13+09.50	14.625	626.542	626.602
H	13+19.50	14.625	626.591	626.639
I	13+29.50	14.625	626.640	626.667
℄ Brg. S. Abut.	13+42.50	14.625	626.718	626.718
Bk. S. Abut.	13+44.00	14.625	626.729	626.729

BEAM 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	12+38.00	20.958	626.065	626.065
℄ Brg. N. Abut.	12+39.50	20.958	626.072	626.072
A	12+49.50	20.958	626.121	626.142
B	12+59.50	20.958	626.170	626.212
C	12+69.50	20.958	626.219	626.277
D	12+79.50	20.958	626.268	626.335
E	12+89.50	20.958	626.317	626.392
F	12+99.50	20.958	626.366	626.435
G	13+09.50	20.958	626.415	626.476
H	13+19.50	20.958	626.464	626.513
I	13+29.50	20.958	626.513	626.541
℄ Brg. S. Abut.	13+42.50	20.958	626.591	626.591
Bk. S. Abut.	13+44.00	20.958	626.602	626.602

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
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(217) 546-3400
HLR
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-1	DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.
	DRAWN: D.A.B.

TOP OF SLAB ELEVATIONS

IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	33
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 9
25 SHEETS

Contract No. 66399

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End of N. Approach Pvmt.	12+08.00	-21.00	625.919
A	12+18.00	-21.00	625.968
B	12+28.00	-21.00	626.017
Bk. N. Abutment	12+38.00	-21.00	626.066

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End of N. Approach Pvmt.	12+08.00	-13.00	626.079
A	12+18.00	-13.00	626.128
B	12+28.00	-13.00	626.177
Bk. N. Abutment	12+38.00	-13.00	626.226

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
End of N. Approach Pvmt.	12+08.00	-0.50	626.329
A	12+18.00	-0.50	626.378
B	12+28.00	-0.50	626.427
Bk. N. Abutment	12+38.00	-0.50	626.476

℄ ROADWAY & P.G.

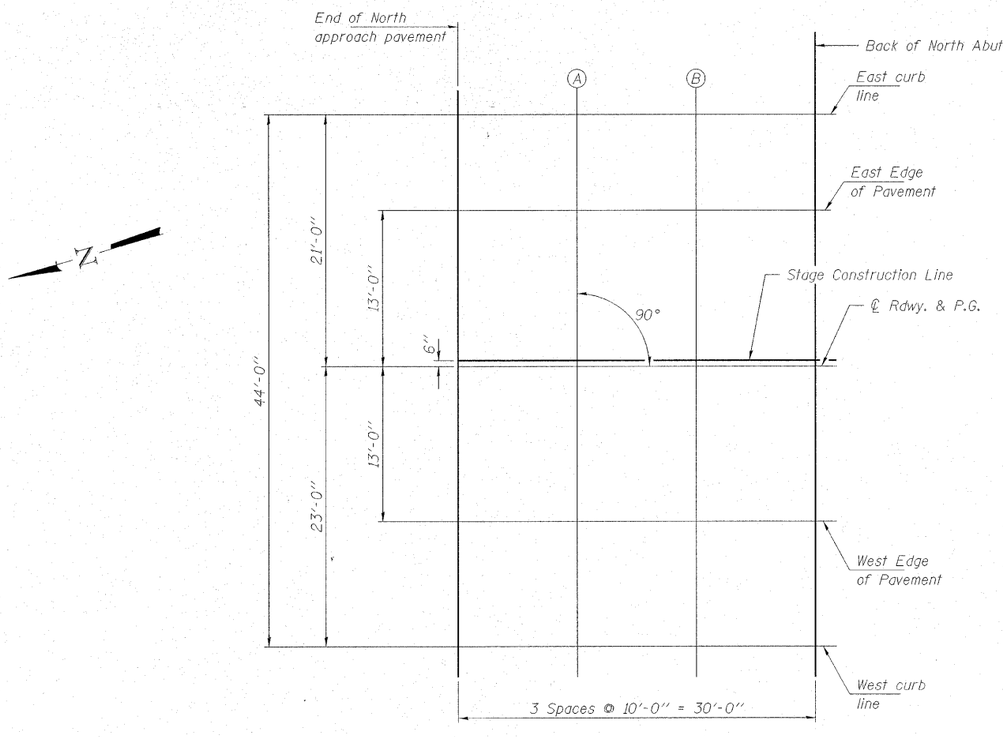
Location	Station	Offset	Theoretical Grade Elevations
End of N. Approach Pvmt.	12+08.00	0	626.339
A	12+18.00	0	626.388
B	12+28.00	0	626.437
Bk. N. Abutment	12+38.00	0	626.486

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End of N. Approach Pvmt.	12+08.00	13.00	626.079
A	12+18.00	13.00	626.128
B	12+28.00	13.00	626.177
Bk. N. Abutment	12+38.00	13.00	626.226

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End of N. Approach Pvmt.	12+08.00	23.00	625.879
A	12+18.00	23.00	625.928
B	12+28.00	23.00	625.977
Bk. N. Abutment	12+38.00	23.00	626.026



PLAN

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
HLR
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-1	DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.
DRAWN: D.A.B.	

NORTH APPROACH SLAB ELEVATIONS

IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	34
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 10
25 SHEETS

Contract No. 66399

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End of S. Approach Pvmt.	13+44.00	-21.00	626.586
A	13+54.00	-21.00	626.636
B	13+64.00	-21.00	626.702
Bk. S. Abutment	13+74.00	-21.00	626.786

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End of S. Approach Pvmt.	13+44.00	-13.00	626.746
A	13+54.00	-13.00	626.796
B	13+64.00	-13.00	626.862
Bk. S. Abutment	13+74.00	-13.00	626.946

STAGE CONSTRUCTION LINE

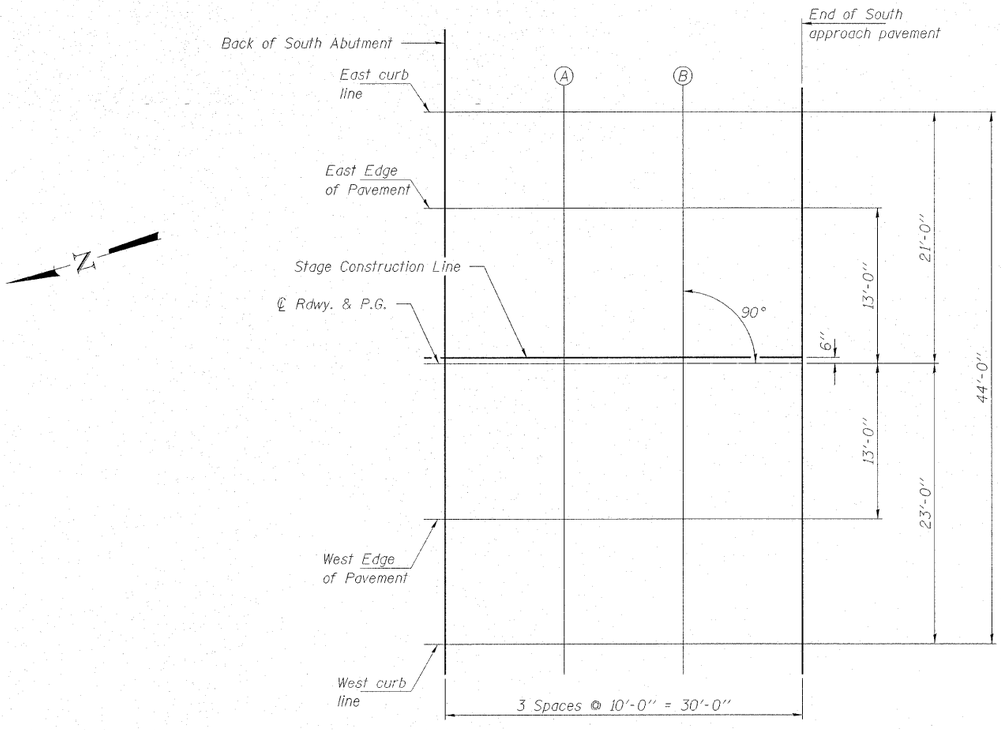
Location	Station	Offset	Theoretical Grade Elevations
End of S. Approach Pvmt.	13+44.00	-0.50	626.996
A	13+54.00	-0.50	627.046
B	13+64.00	-0.50	627.112
Bk. S. Abutment	13+74.00	-0.50	627.196

℄ ROADWAY & P.G.

Location	Station	Offset	Theoretical Grade Elevations
End of S. Approach Pvmt.	13+44.00	0	627.006
A	13+54.00	0	627.056
B	13+64.00	0	627.122
Bk. S. Abutment	13+74.00	0	627.206

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End of S. Approach Pvmt.	13+44.00	13.00	626.746
A	13+54.00	13.00	626.796
B	13+64.00	13.00	626.862
Bk. S. Abutment	13+74.00	13.00	626.946



PLAN

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End of S. Approach Pvmt.	13+44.00	23.00	626.546
A	13+54.00	23.00	626.596
B	13+64.00	23.00	626.662
Bk. S. Abutment	13+74.00	23.00	626.746

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(217) 546-3400
HLR
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-1	DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.
	DRAWN: D.A.B.

SOUTH APPROACH SLAB ELEVATIONS

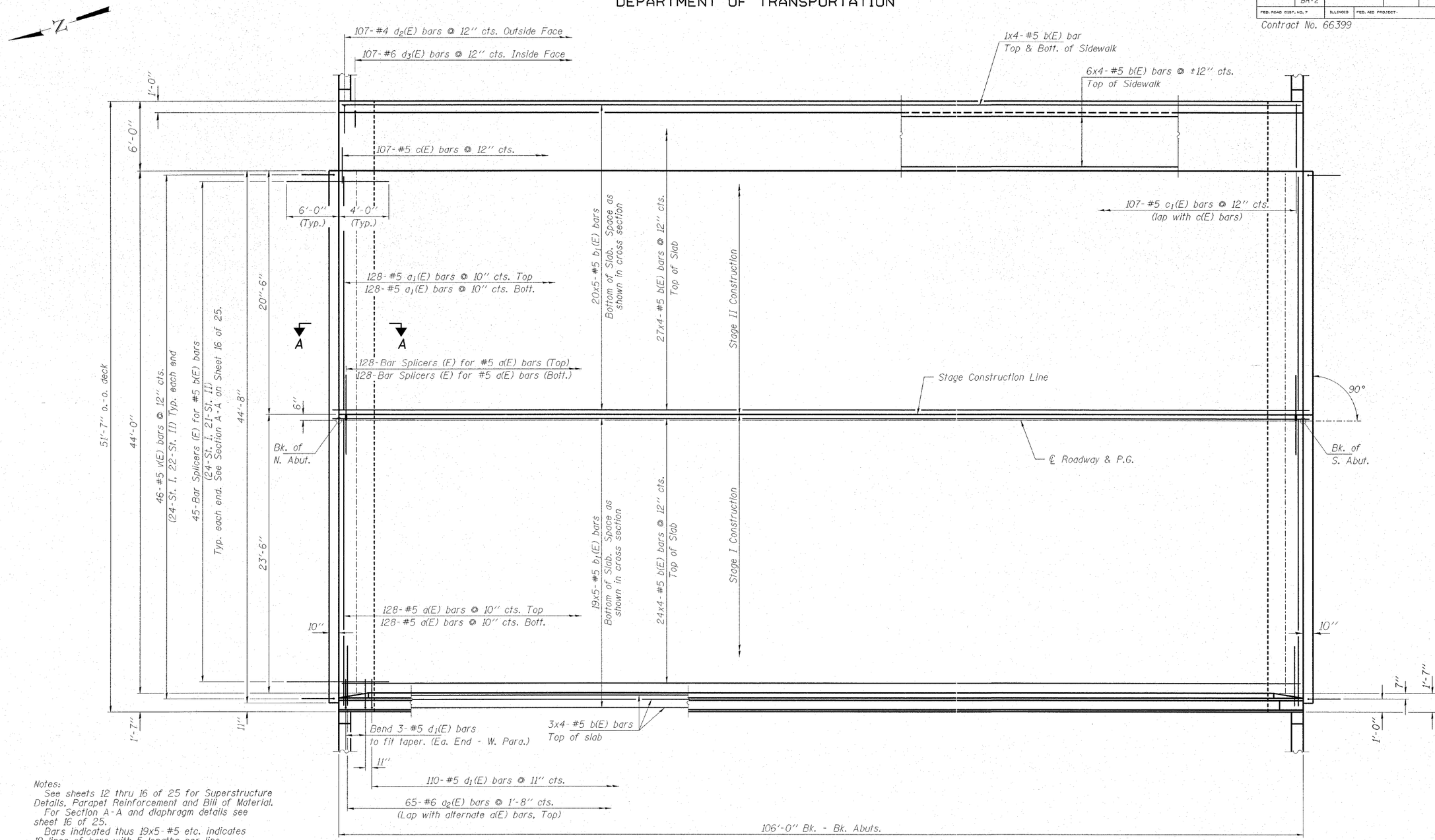
IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	35
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 11
25 SHEETS

Contract No. 66399



PLAN

Notes:
See sheets 12 thru 16 of 25 for Superstructure Details, Parapet Reinforcement and Bill of Material.
For Section A-A and diaphragm details see sheet 16 of 25.
Bars indicated thus 19x5-#5 etc. indicates 19 lines of bars with 5 lengths per line.
See sheet 23 of 25 for bar splicer details.

MIN. BAR LAP

#5 Bar = 1'-8"

HAMPTON, LENZINI & RENWICK, INC.
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(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-1	DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.
DRAWN: D.A.B.	

SUPERSTRUCTURE

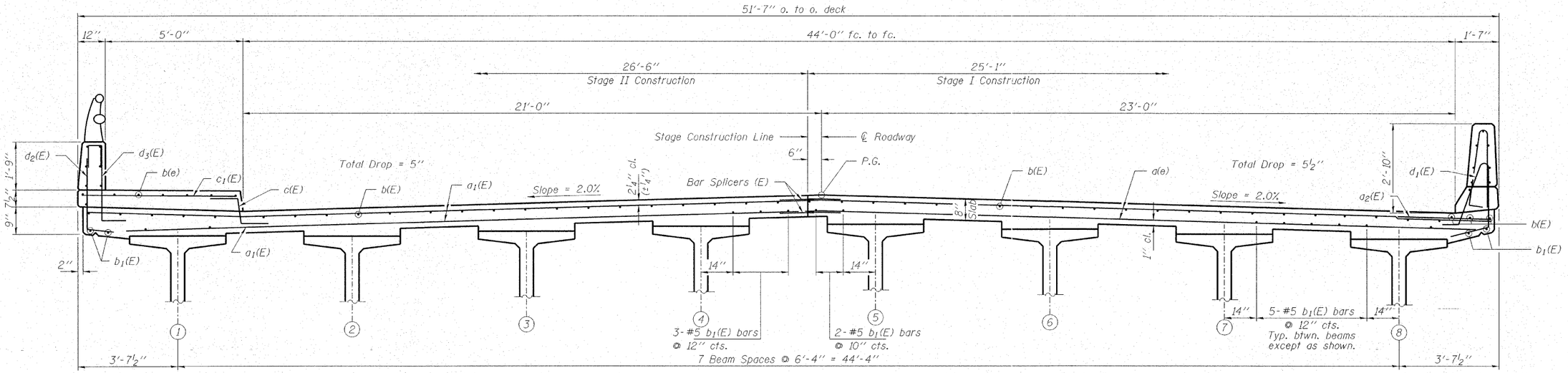
IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	36
FED. ROAD DIST. NO. 9		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 12
25 SHEETS

Contract No. 66399



CROSS SECTION
(Looking South)

Notes:
See sheet 14 of 25 for Bill of Material.
See sheets 14 and 15 of 25 for parapet reinforcement.

HAMPTON, LENZINI & RENWICK, INC.
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(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-1	DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.	DRAWN: D.A.B.

SUPERSTRUCTURE DETAILS

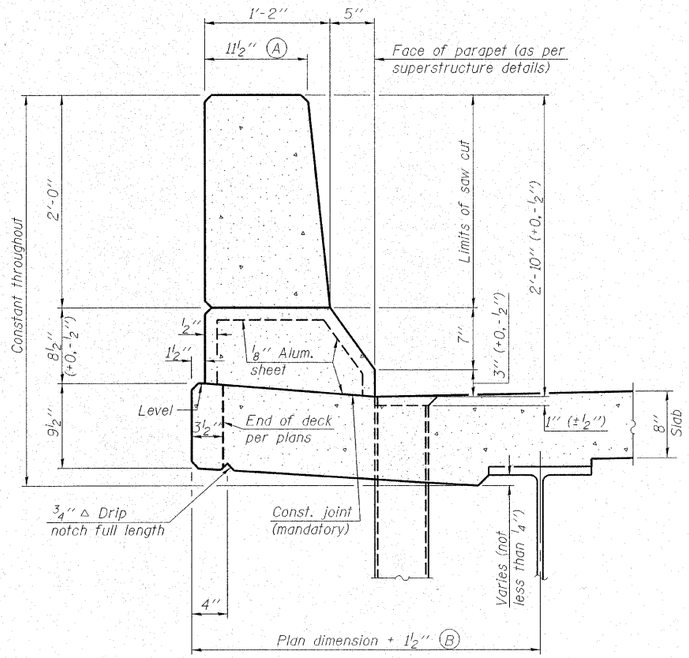
IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	37
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

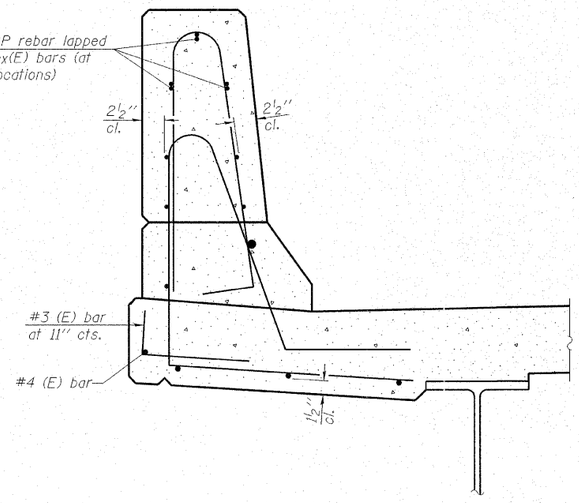
SHEET NO. 13
25 SHEETS

Contract No. 66399

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SECTION
(Showing dimensions)

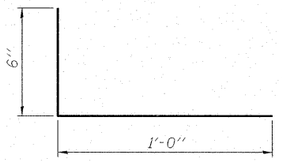


SECTION
(Showing reinforcement clearances for slip forming and additional reinforcement bars)

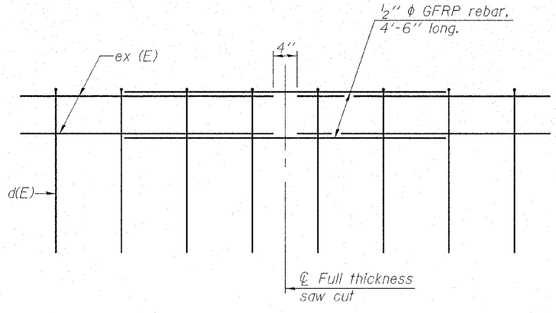
GENERAL NOTES

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

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



#3 (E) BAR



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

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(217) 546-3400
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PROJECT NUMBER: 12-06-0029-1	DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.
	DRAWN: D.A.B.

SUPERSTRUCTURE DETAILS

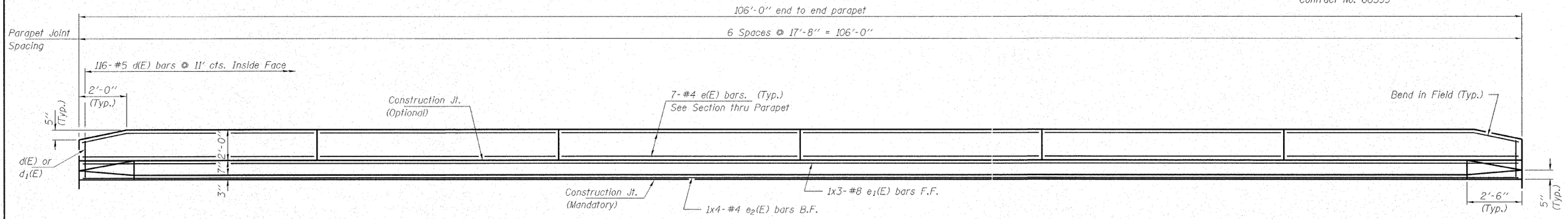
IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

SFP-34 9-3-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	38
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 14
25 SHEETS
Contract No. 66399

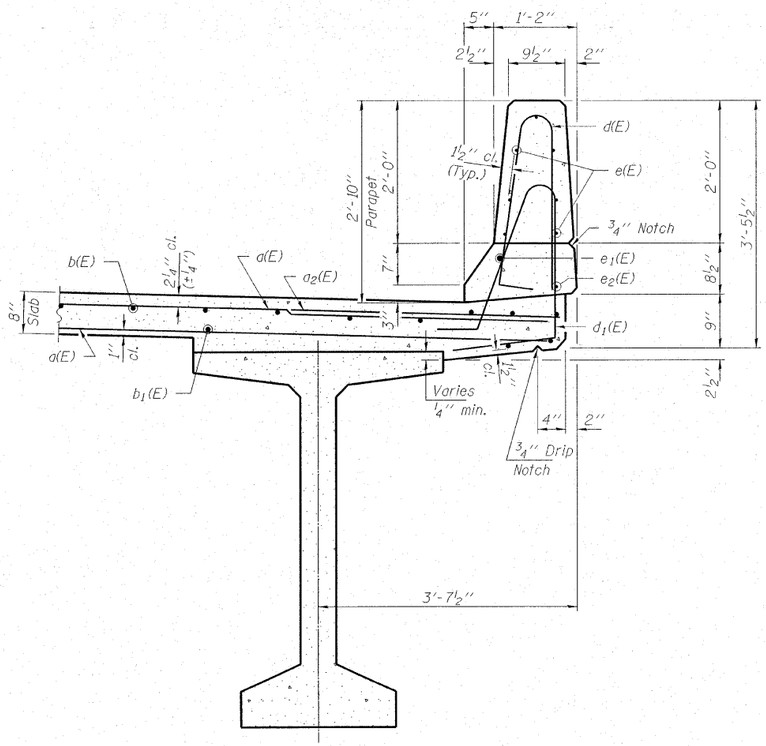


Note: Bars indicated thus 1x3-#8 etc. indicates 1 line of bars with 3 lengths per line.

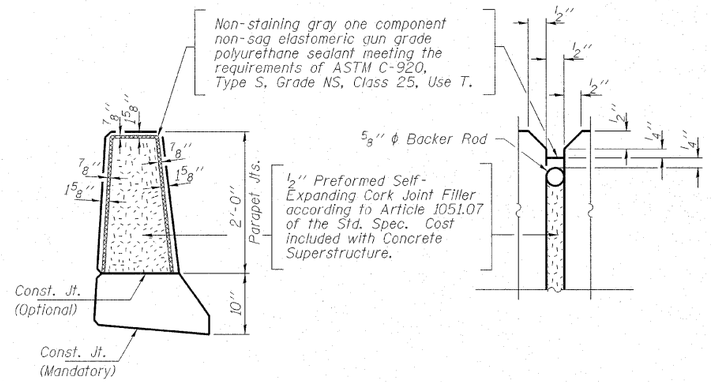
INSIDE ELEVATION OF WEST PARAPET

MIN. BAR LAPS

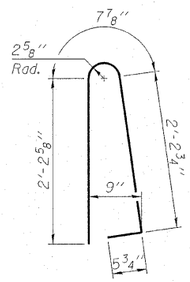
#4 bars = 1'-4"
#8 bars = 3'-5"



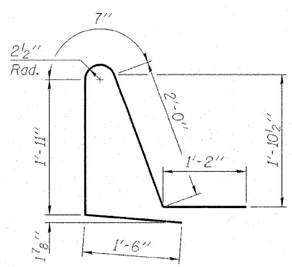
SECTION THRU WEST PARAPET
(Looking South)



WEST PARAPET JOINT DETAILS



BAR d(E)



BAR d_1(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	256	#5	24'-9"	
a_1(E)	256	#5	26'-2"	
a_2(E)	65	#6	6'-0"	
b(E)	248	#5	27'-8"	
b_1(E)	195	#5	22'-6"	
c(E)	107	#5	2'-5"	
c_1(E)	107	#5	5'-7"	
d(E)	116	#5	5'-7"	
d_1(E)	116	#5	7'-2"	
d_2(E)	107	#4	4'-3"	
d_3(E)	107	#6	3'-9"	
d_4(E)	24	#4	2'-0"	
e(E)	78	#4	17'-5"	
e_1(E)	3	#8	37'-6"	
e_2(E)	4	#4	27'-6"	
m(E)	14	#6	24'-11"	
m_1(E)	14	#6	26'-4"	
m_2(E)	36	#6	8'-4"	
m_3(E)	12	#6	7'-8"	
m_4(E)	14	#6	3'-11"	
m_5(E)	4	#6	2'-5"	
s(E)	96	#5	6'-7"	
s_1(E)	50	#4	14'-8"	
v(E)	92	#5	3'-7"	
Reinforcement Bars, Epoxy Coated			Pound	33,830
Concrete Superstructure			Cu. Yds.	243.0

HAMPTON, LENZINI & RENWICK, INC.
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(217) 546-3400
HLR
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i	DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.
	DRAWN: D.A.B.

SUPERSTRUCTURE DETAILS

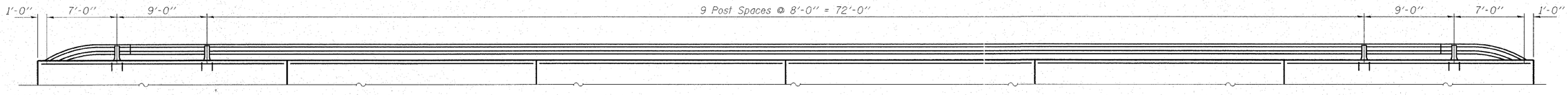
IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

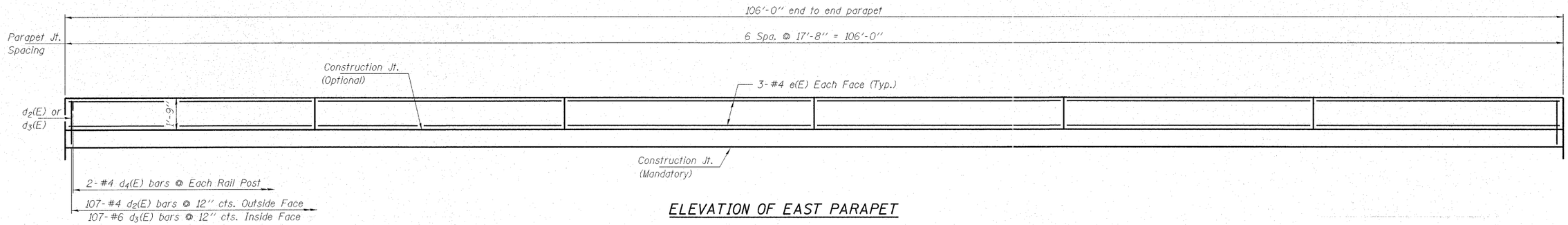
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	39
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 15
25 SHEETS

Contract No. 66399

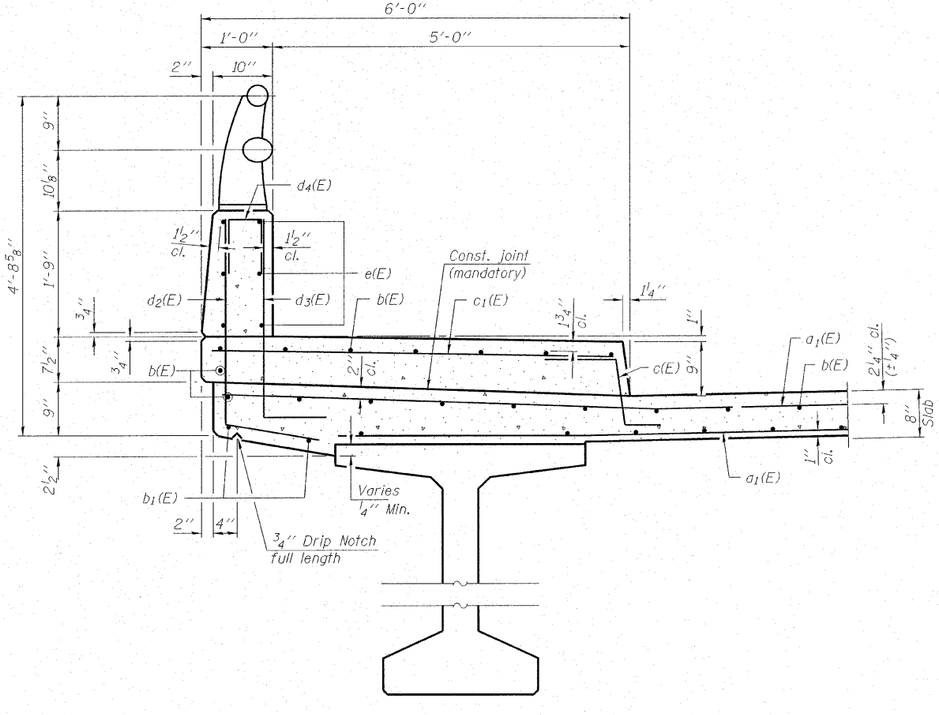


ELEVATION OF RAILING

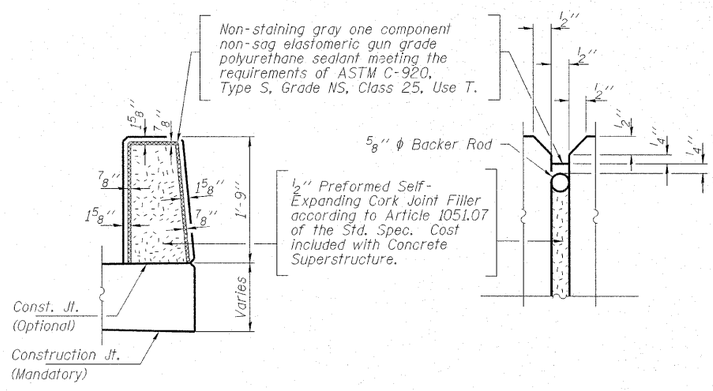


ELEVATION OF EAST PARAPET

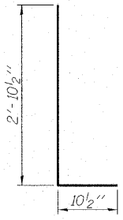
MIN. BAR LAPS
#5 bars = 1'-8"



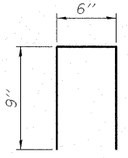
SECTION THRU SIDEWALK



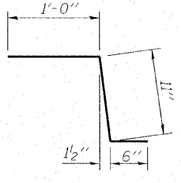
EAST PARAPET JOINT DETAILS



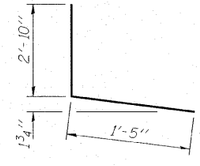
BARS d3(E)



BARS d4(E)



BAR c(E)



BAR d2(E)

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
HLR
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i	DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.	DRAWN: D.A.B.

SUPERSTRUCTURE DETAILS

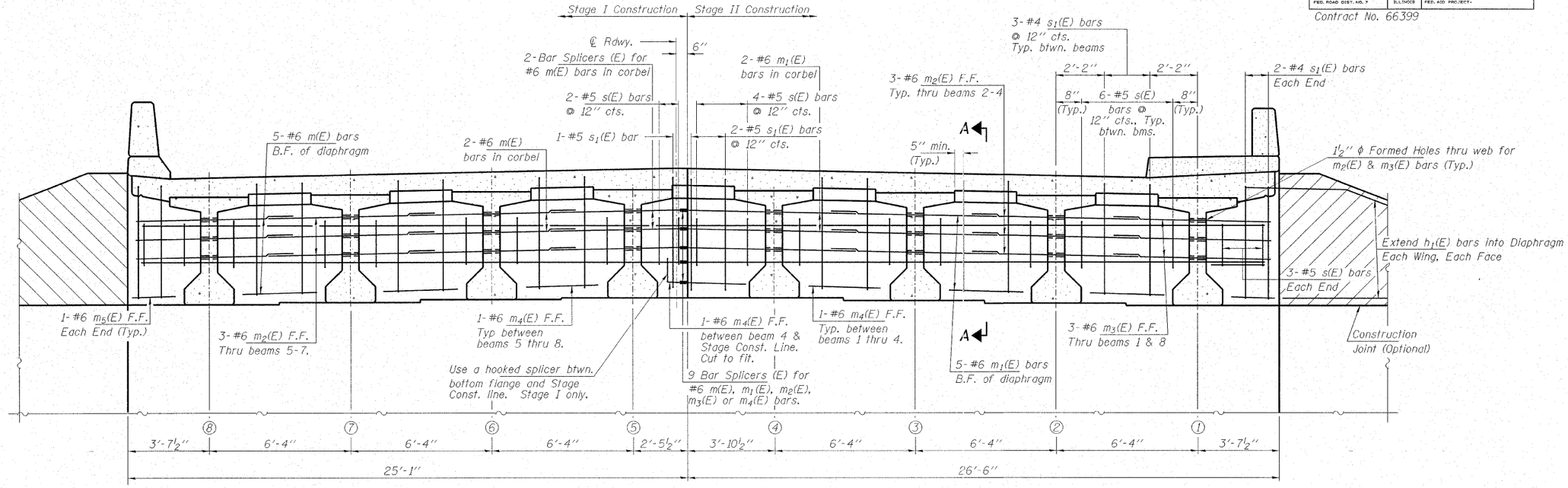
IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	40
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 16
25 SHEETS

Contract No. 66399

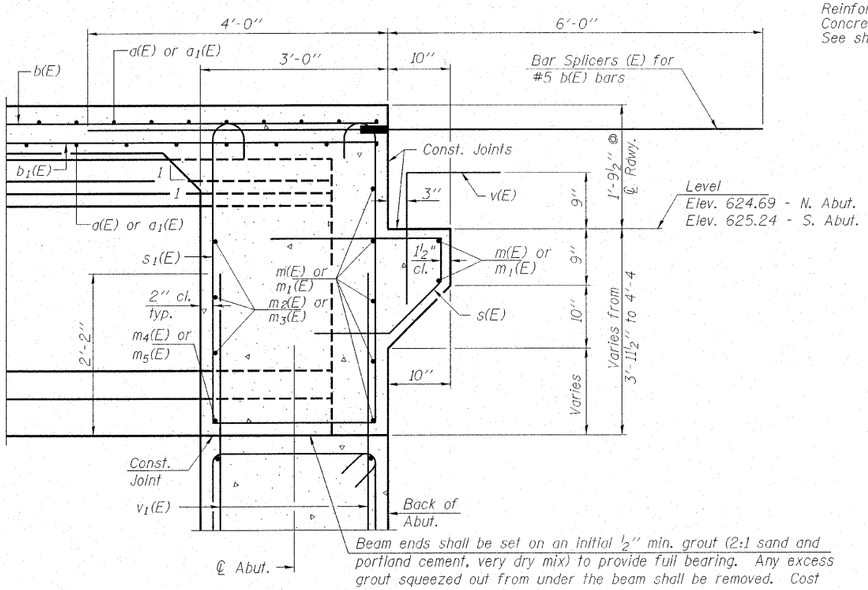
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DIAPHRAGM AT ABUTMENTS

F.F. - Front Face
B.F. - Back Face
North Abutment Shown
South Abutment Mirror Image

Notes:
Reinforcement bars in diaphragms are billed with superstructure on sheet 14 of 25.
Concrete in diaphragms is included with "Concrete Superstructure" on sheet 14 of 25.
See sheet 18 of 25 for holes thru web for $m_2(E)$ and $m_3(E)$ bars.

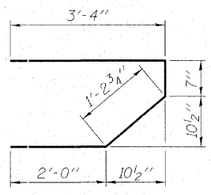


Beam ends shall be set on an initial ½" min. grout (2:1 sand and portland cement, very dry mix) to provide full bearing. Any excess grout squeezed out from under the beam shall be removed. Cost included with Concrete Structures.

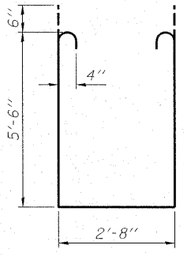
SECTION A-A

MIN. BAR LAPS

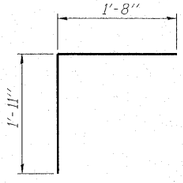
#6 bars = 2'-0"



BAR s(E)



BAR s1(E)



BAR v(E)

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-1	DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.	DRAWN: D.A.B.

DIAPHRAGAM DETAILS

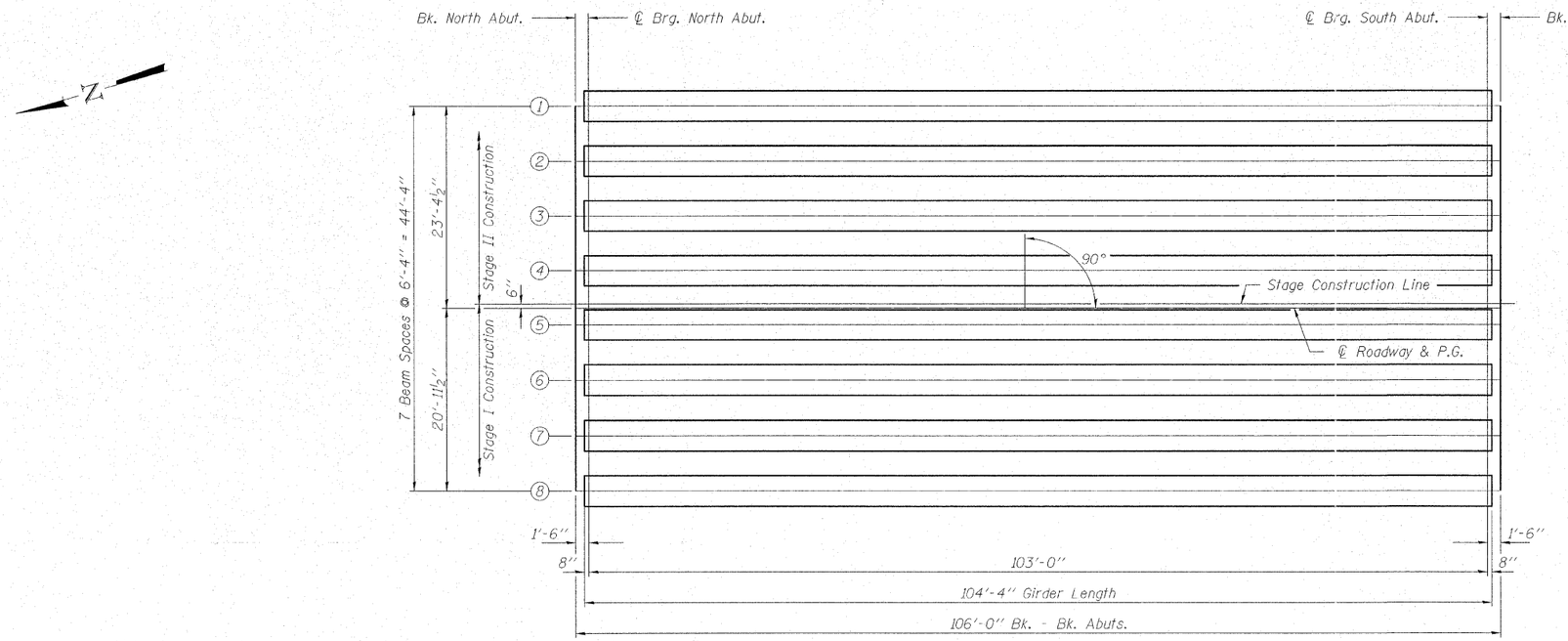
IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	41
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 17
25 SHEETS

Contract No. 66399

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PLAN

INTERIOR BEAM MOMENT TABLE		0.5 Span
I	(in^4)	392638
I'	(in^4)	736211
S_b	(in^3)	12224
S_b'	(in^3)	16060
S_t	(in^3)	12715
S_t'	(in^3)	42903
$\underline{D}$	(k/ft.)	1.42
$M\underline{D}$	('k)	1883
$s\underline{D}$	(k/ft.)	0.491
$Ms\underline{D}$	('k)	651
$M\underline{L}$	('k)	908
M (Imp)	('k)	200

INTERIOR BEAM REACTION TABLE		Abut.
$R\underline{D}$	(k)	73
$Rs\underline{D}$	(k)	25.3
$R\underline{L}$	(k)	37.7
R Imp.	(k)	8.3
R (Total)	(k)	144.3

I Non-composite moment of inertia of beam section ($in.^4$).

I' Composite moment of inertia of beam section (in^4).

S_b Non-composite section modulus for the bottom fiber of the prestressed beam (in^3).

S_b' Composite section modulus for the bottom fiber of the prestressed beam (in^3).

S_t Non-composite section modulus for the top fiber of the prestressed beam (in^3).

S_t' Composite section modulus for the top fiber of the prestressed beam (in^3).

$\underline{D}$ Un-factored non-composite dead load (kips/ft).

$M\underline{D}$ Un-factored moment due to non-composite dead load conservatively taken at 0.5 of the span (kip-ft).

$s\underline{D}$ Un-factored long-term composite (superimposed) dead load (kips/ft).

$M_s\underline{D}$ Un-factored moment due to long-term composite (superimposed) dead load (kip-ft).

$M\underline{L}$ Un-factored live load moment on the composite section (kip-ft).

M_{Imp} Un-factored moment due to impact on the composite section (kip-ft).

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-1	DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.
	DRAWN: D.A.B.

FRAMING PLAN

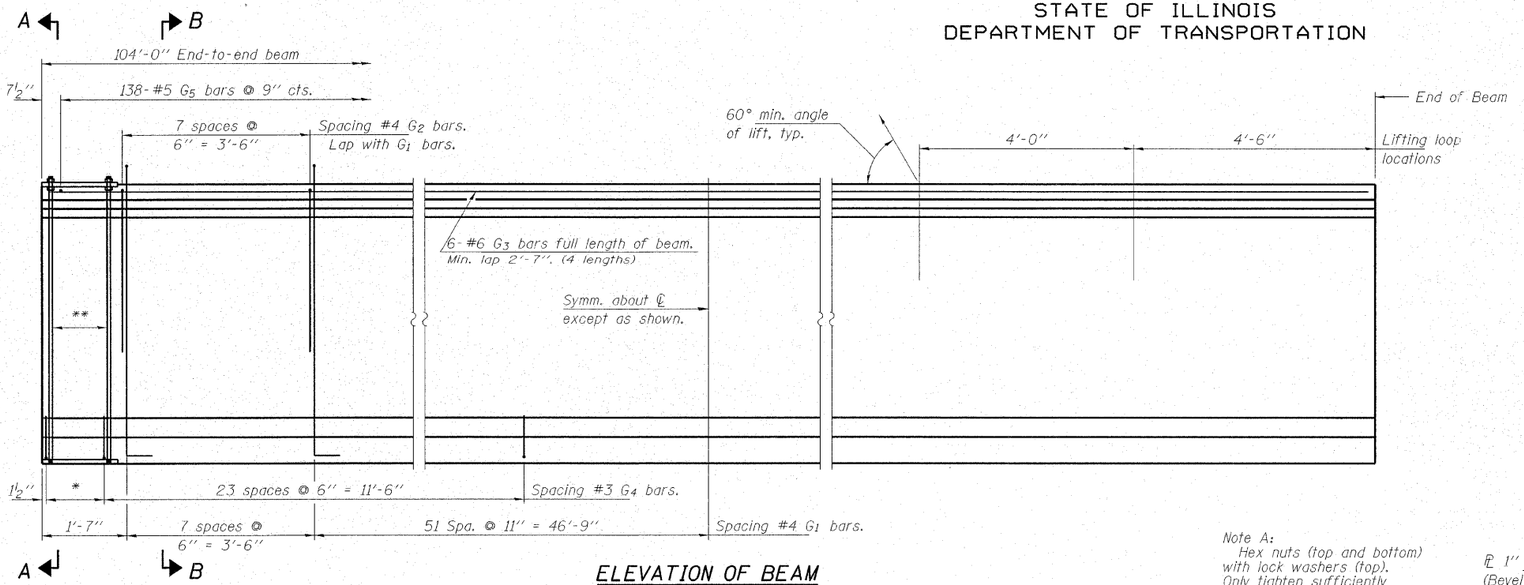
IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	42
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 18
25 SHEETS

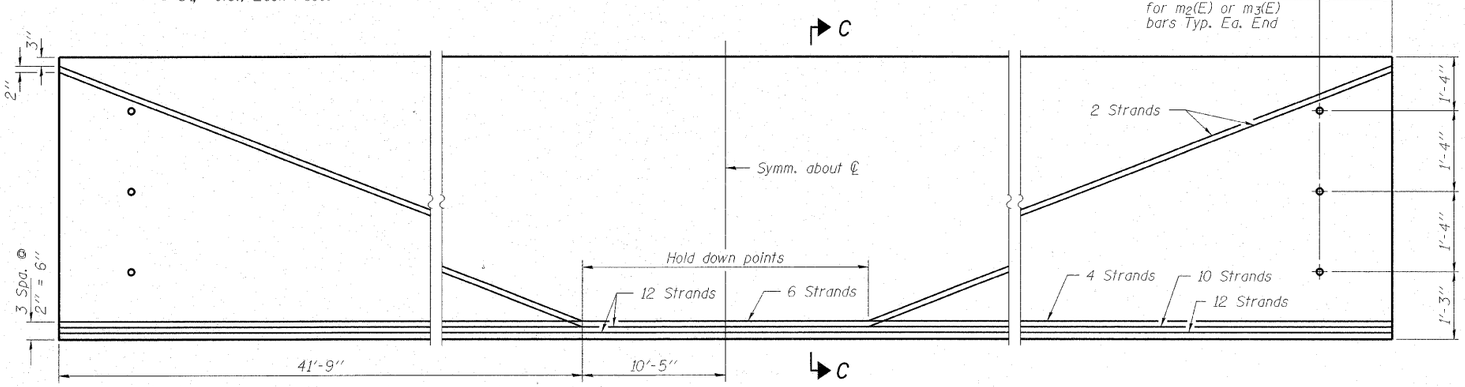
Contract No. 66399



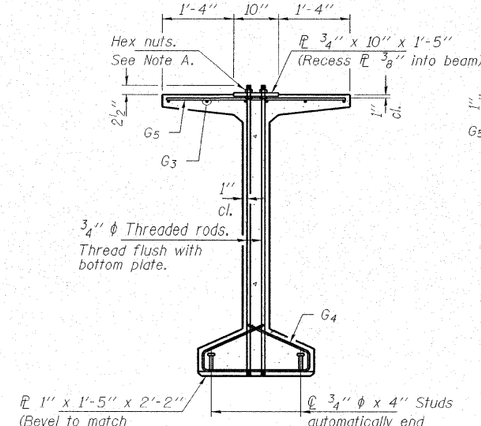
ELEVATION OF BEAM
(Showing reinforcement & dimensions)

* 4 Spa. @ 3¼" = 1'-1".
** 5-¾" ϕ threaded dowel rods @ 3¼" cts., Each Face.

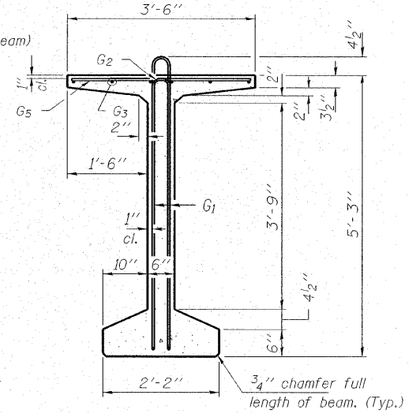
Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



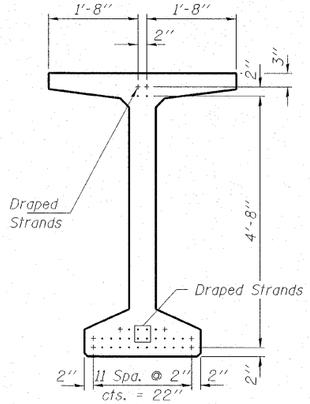
ELEVATION OF BEAM
(Showing prestressing steel)



SECTION A-A



SECTION B-B



SECTION C-C

*BAR LIST

Bar	No.	Size	Length	Shape
G1	118	#4	11'-11"	
G2	16	#4	6'-2"	
G3	24	#6	27'-6"	
G4	56	#3	4'-11"	
G5	138	#5	3'-4"	

*For one beam only.

Notes:
See sheet 19 of 25 for additional details and Bill of Material.
Required release strength, f'ci, shall be 5,000 psi.

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i	DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.
	DRAWN: D.A.B.

63" PPC BULB-T BEAM

IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	43
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 19
25 SHEETS

Contract No. 66399

NOTES

Inserts for $\frac{3}{4}''$ ϕ threaded dowel rods, when specified, are to be two strut, coil type for interior beams and single coil, flared loop type for exterior beams.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.

The nominal diameter shall be $\frac{1}{2}''$ and the nominal cross-sectional area shall be 0.153 sq. in.

Non-prestressing steel shall conform to ASTM A 706 (IL MOD), Grade 60.

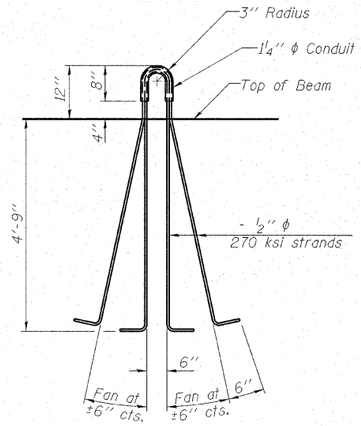
A minimum $2\frac{1}{2}''$ ϕ lifting pin shall be used to engage the lifting loops during handling.

Cut G_6 bars when necessary to maintain $1\frac{1}{2}''$ clearance.

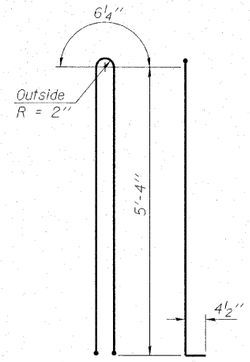
The top and bottom plates shall be AASHTO M270 Grade 50.

The bottom plates and studs shall be galvanized according to AASHTO M111.

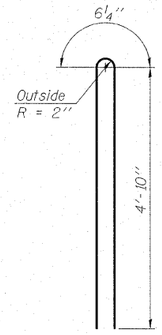
Threaded rods shall be ASTM F 1554 Grade 55.



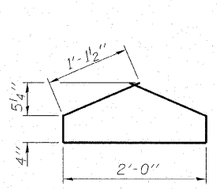
LIFTING LOOP DETAIL



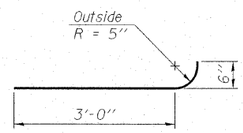
BAR G1



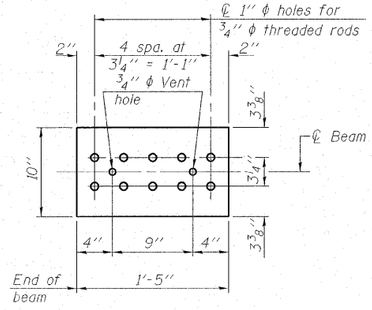
BAR G2



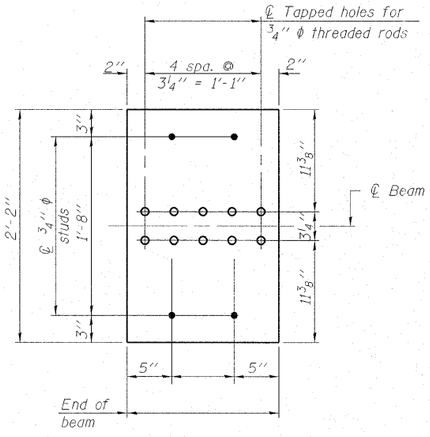
BAR G4



BAR G6



TOP PLATE



BOTTOM PLATE
See bearing details for pintle hole locations when required.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams, 63''	Ft.	835

63'' PPC BULB T-BEAM DETAILS

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i	DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.	DRAWN: D.A.B.

BEAM DETAILS
IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

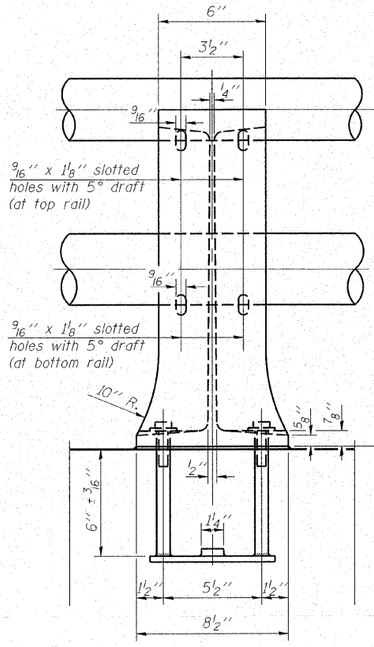
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	44
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

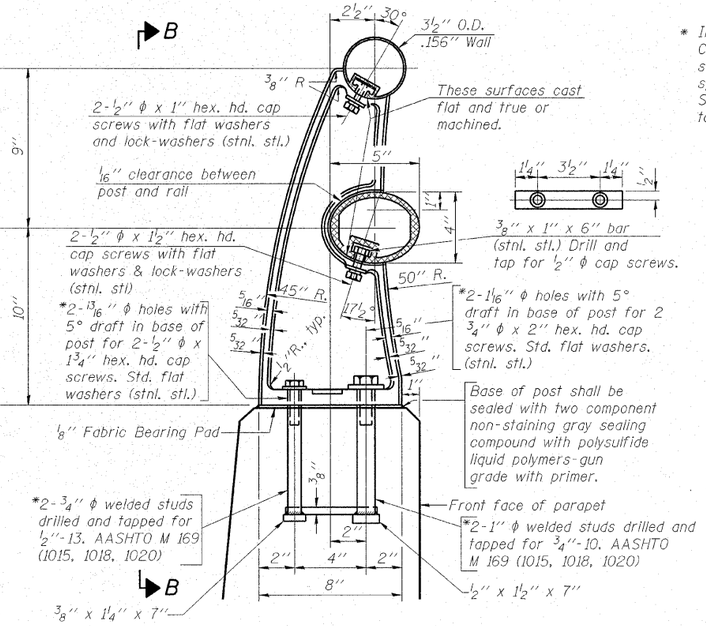
SHEET NO. 20
25 SHEETS

Contract No. 66399

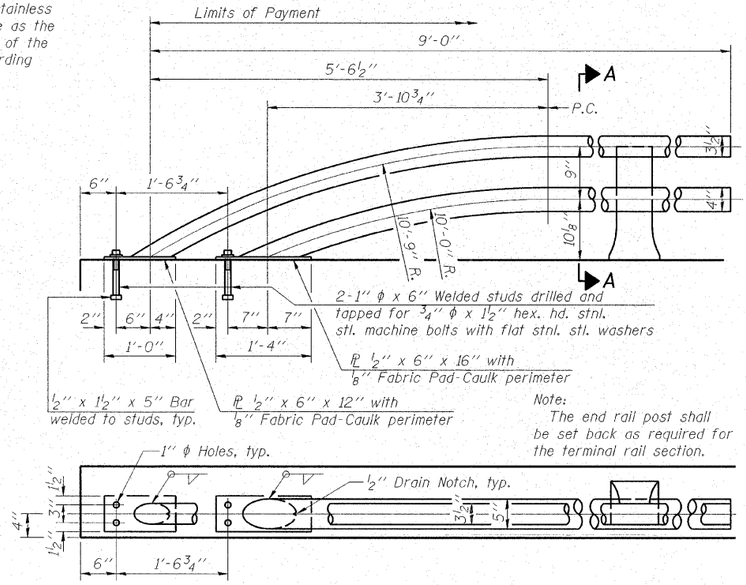
* *In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting stainless steel anchor rods of the same diameter and grade as the specified cap screws according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.*



VIEW B-B



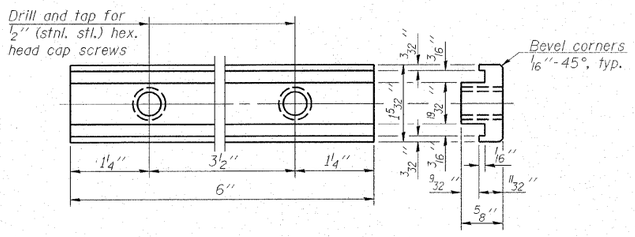
SECTION A-A



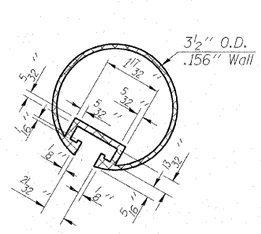
Note:
The end rail post shall be set back as required for the terminal rail section.

RAIL TERMINAL SECTION

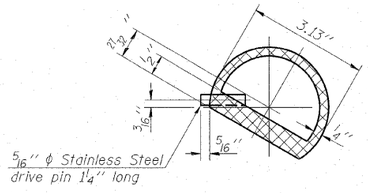
RAIL POST DETAILS



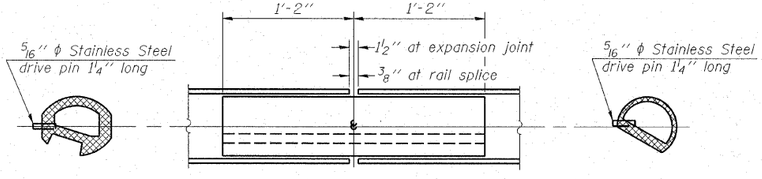
RAIL POST CLAMP BAR
For Top Rail



SECTION THRU TOP RAIL



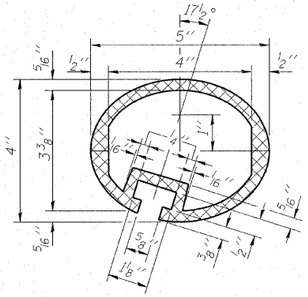
SECTION THRU SPLICE
For Top Rail



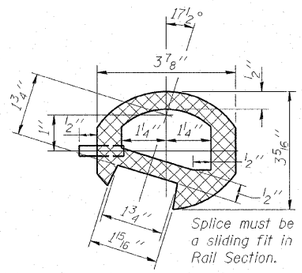
BOTTOM RAIL

RAIL SPLICE

TOP RAIL



SEC. THRU ELLIPTICAL RAIL SECTION



SEC. THRU SPLICE

Notes:
All Posts shall be normal to parapet.
All joints in rail shall be spliced per detail.
Provide 1-⅛" and 2-1/16" Aluminum Shims for 25% of the Posts. Rail elements shall be parallel to Grade-high spots will be ground and low spots shimmed.
See sheet 15 of 25 for rail post spacing.

BILL OF MATERIAL

Item	Unit	Quantity
Aluminum Railing, Type L	Foot	104

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3055 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
HLR
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-1	DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.	DRAWN: D.A.B.

RAILING DETAILS

IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

9-3-07 (7'-0" to 10'-0" Post spacing)

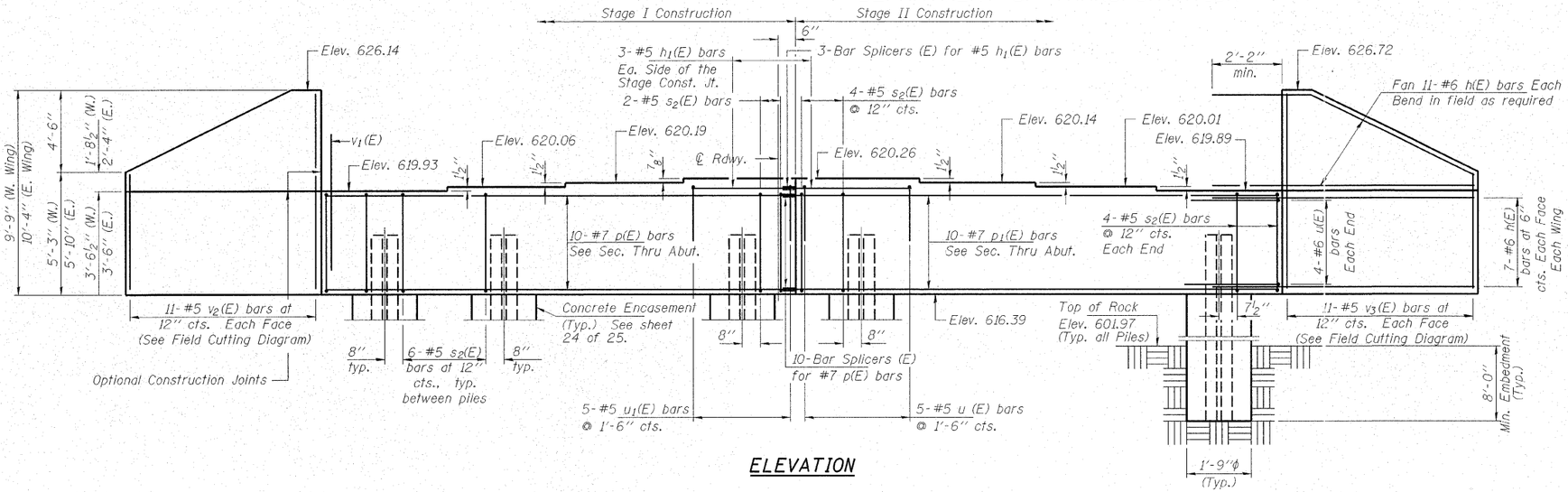
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	45
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 21
25 SHEETS

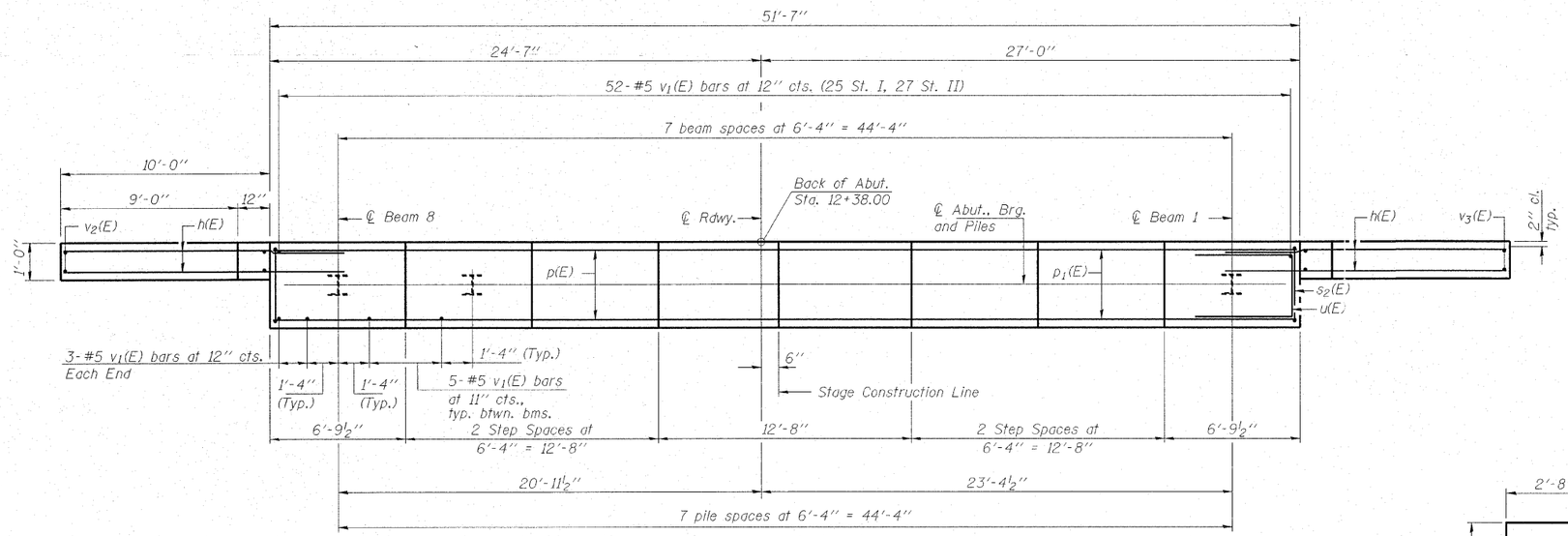
Contract No. 66399

Notes: Pour steps monolithically with cap.

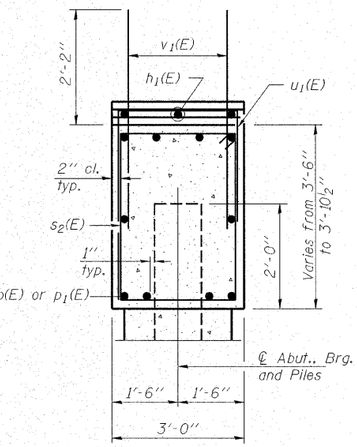
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION



PLAN



SEC. THRU ABUT.

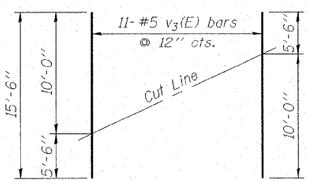
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	72	#6	12'-4"	
h_1(E)	6	#5	6'-0"	
p(E)	10	#7	24'-10"	
p_1(E)	10	#7	26'-3"	
s_2(E)	50	#5	12'-7"	
u(E)	8	#6	8'-7"	
u_1(E)	10	#5	6'-0"	
v_1(E)	93	#5	4'-4"	
v_2(E)	11	#5	14'-6"	
v_3(E)	11	#5	15'-6"	
Structure Excavation		Cu. Yd.	260.0	
Concrete Structures		Cu. Yd.	29.0	
Reinforcement Bars, Epoxy Coated		Pound	4,000	
Furnishing Steel Piles HP12x63		Foot	200	
Concrete Encasement		Cu. Yd.	2.8	
Setting Piles in Rock		Each	8	

For details of Bar Splicers, see sheet 23 of 25.
For details of piles and Concrete Encasement, see sheet 24 of 25.

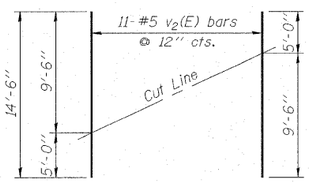
PILE DATA

Type: Steel HP12x63 (Set in Rock)
Est. Length: 25 ft.
No. Production Piles: 8
Allowable Resistance Available: 165 k



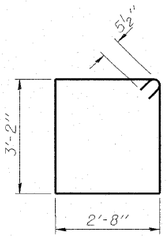
FIELD CUTTING DIAGRAM (E. WING)

Order v_3(E) full length. Cut as shown and use remainder of bars in opposite face.

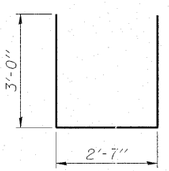


FIELD CUTTING DIAGRAM (W. WING)

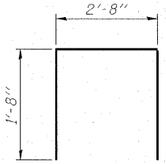
Order v_2(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s_2(E)



BAR u(E)



BAR u_1(E)

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LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
HLR
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-1	DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.
	DRAWN: D.A.B.

NORTH ABUTMENT

IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

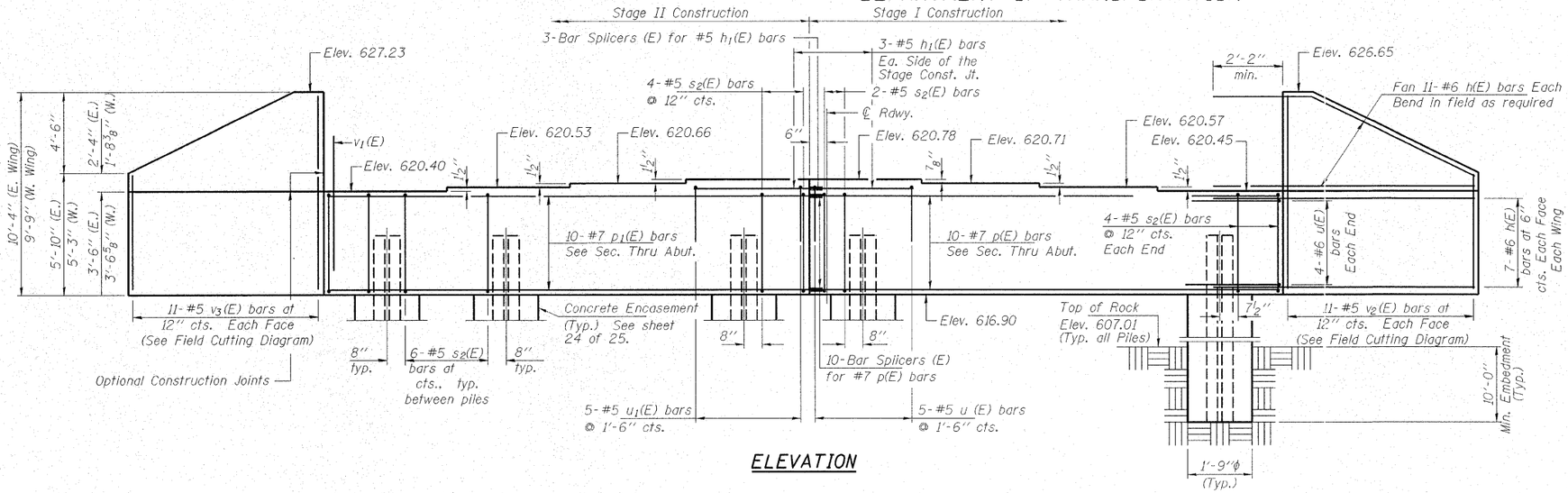
Notes: Pour steps monolithically with cap.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

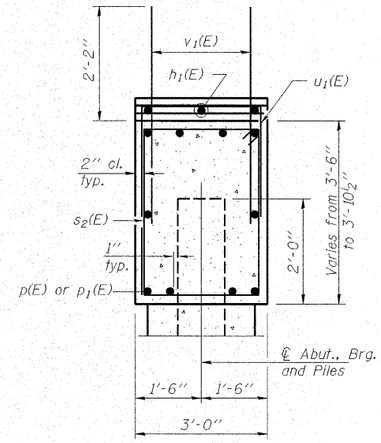
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	46
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 22
25 SHEETS

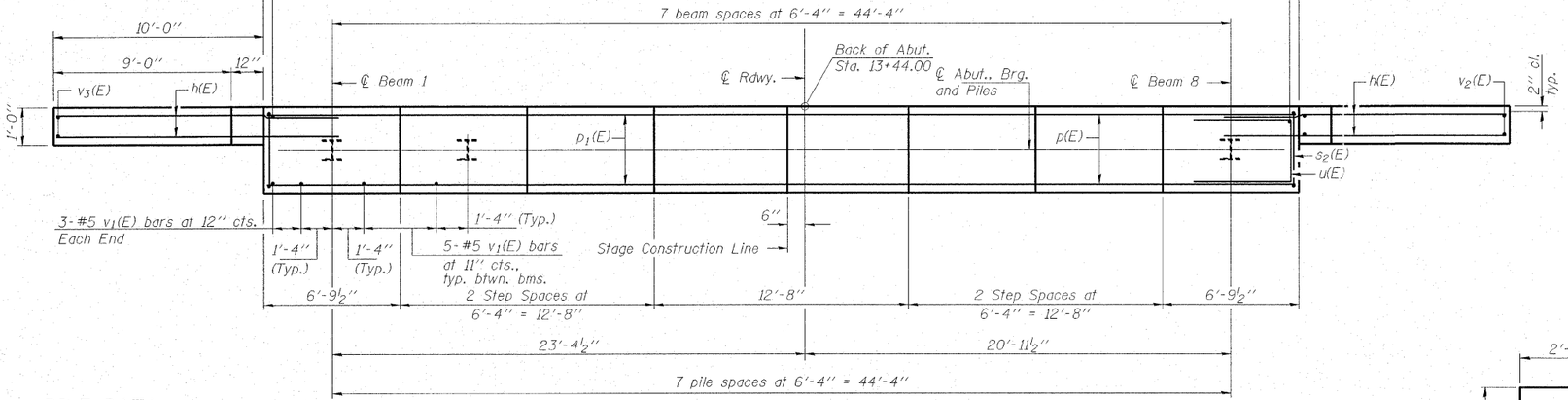
Contract No. 66399



ELEVATION



SEC. THRU ABUT.



PLAN

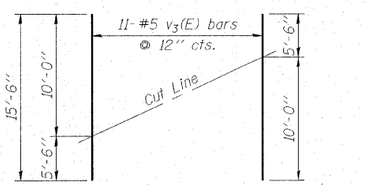
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	72	#6	12'-4"	
h_1(E)	6	#5	6'-0"	
p(E)	10	#7	24'-10"	
p_1(E)	10	#7	26'-3"	
s_2(E)	50	#5	12'-7"	
u(E)	8	#6	8'-7"	
u_1(E)	10	#5	6'-0"	
v_1(E)	93	#5	4'-4"	
v_2(E)	11	#5	14'-6"	
v_3(E)	11	#5	15'-6"	
Structure Excavation		Cu. Yd.		260.0
Concrete Structures		Cu. Yd.		29.0
Reinforcement Bars, Epoxy Coated		Pound		4,000
Furnishing Steel Piles HP12x63		Foot		176
Concrete Encasement		Cu. Yd.		2.8
Setting Piles in Rock		Each		8

For details of Bar Splicers, see sheet 23 of 25.
For details of piles and Concrete Encasement, see sheet 24 of 25.

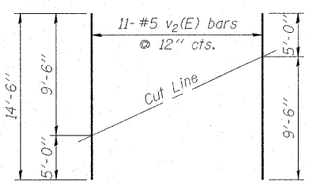
PILE DATA

Type: Steel HP12x63 (Set in Rock)
Est. Length: 22 Ft.
No. Production Piles: 8
Allowable Resistance Available: 165 k



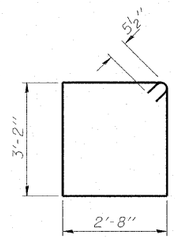
FIELD CUTTING DIAGRAM (E. WING)

Order v_3(E) full length. Cut as shown and use remainder of bars in opposite face.

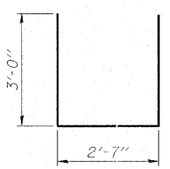


FIELD CUTTING DIAGRAM (W. WING)

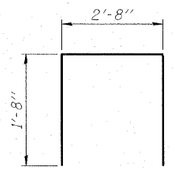
Order v_2(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s_2(E)



BAR u(E)



BAR u_1(E)

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SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
HLR
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i	DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.
	DRAWN: D.A.B.

SOUTH ABUTMENT

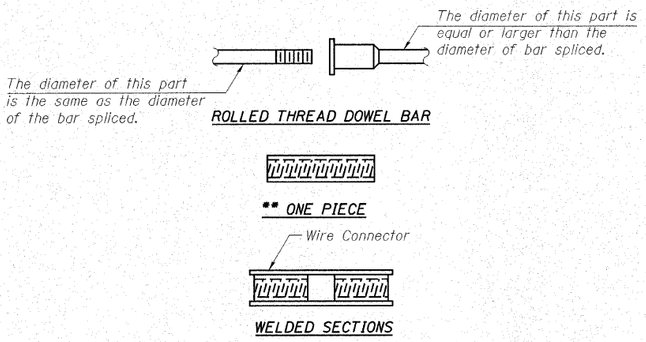
IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	47
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

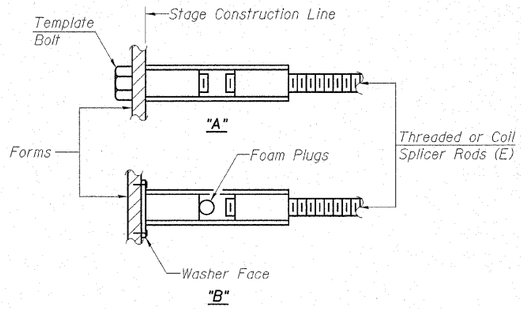
SHEET NO. 23
25 SHEETS

Contract No. 66399



BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



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.

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

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

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

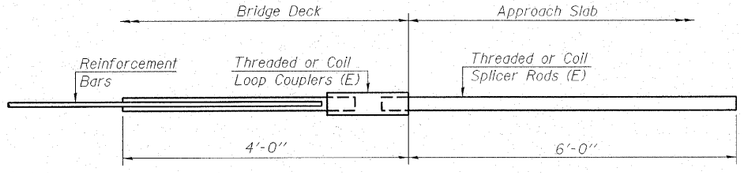
① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$

② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

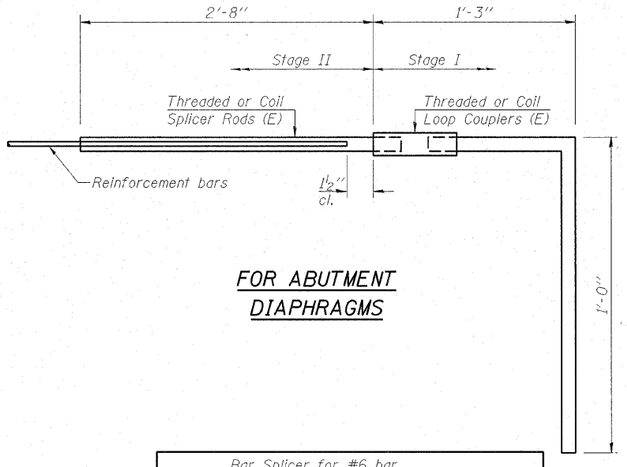
BAR SPLICER ASSEMBLIES

Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



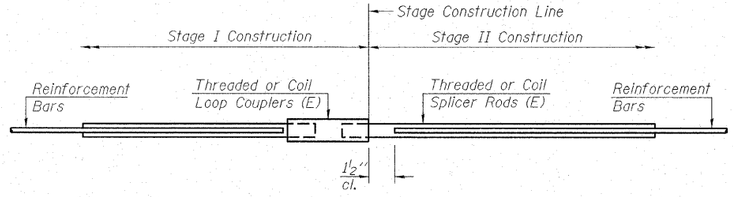
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 90



FOR ABUTMENT DIAPHRAGMS

Bar Splicer for #6 bar
Min. Capacity = 33.1 kips - tension
Min. Pull-out Strength = 17.4 kips - tension
No. Required = 2 (for m_4(E) bars @ St. Const. Line)



STANDARD

Bar Size	No. Assemblies Required	Location
#5	6	Abutments
#7	20	Abutments
#6	22	Abut. Diaphragms
#5	256	Deck

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(217) 546-3400
HLR
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i	DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.	DRAWN: D.A.B.

BAR SPLICER ASSEMBLY DETAILS

IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

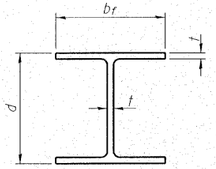
BSD-1 11-1-06

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	48
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

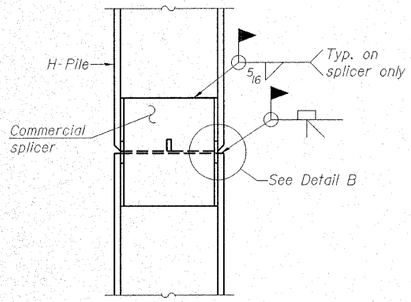
SHEET NO. 24
25 SHEETS

Contract No. 66399

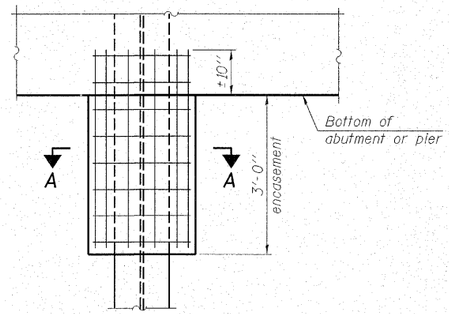


STEEL PILE TABLE

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



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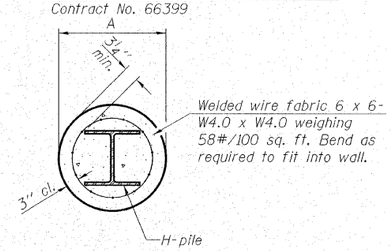
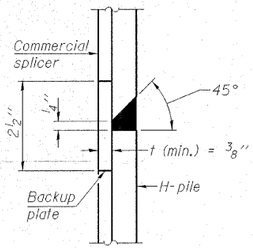


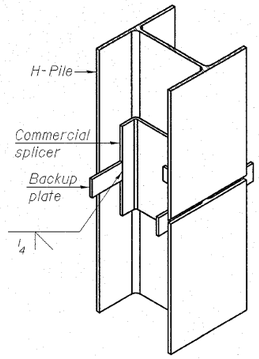
Note:
Forms for encasement may be omitted when soil conditions permit.

SECTION A-A

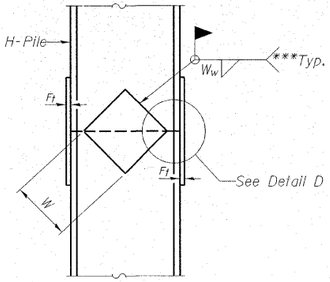
PILE ENCASEMENT



DETAIL "B"



ISOMETRIC VIEW



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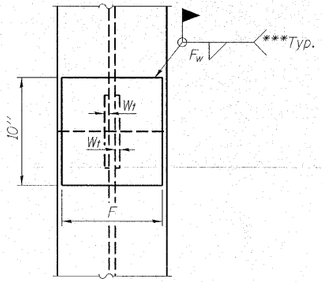
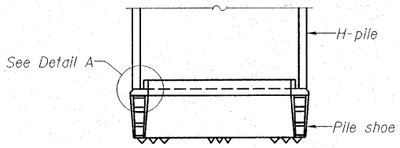
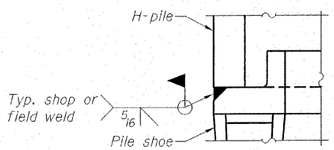


END VIEW

WELDED COMMERCIAL SPLICE

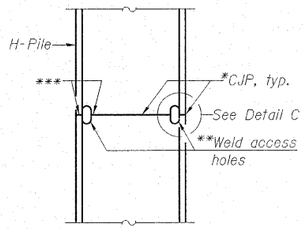


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



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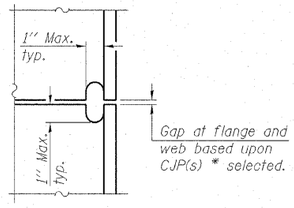

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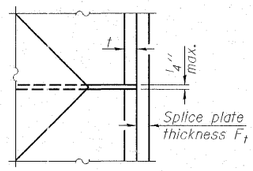


DETAIL D

COMPLETE PENETRATION WELD SPLICE

WELDED PLATE FIELD SPLICE

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''	$\frac{5}{8}''$	$\frac{7}{16}''$	$4\frac{1}{4}''$	$\frac{1}{2}''$	$\frac{3}{8}''$

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

*Use joint conforming to Figure 3.4 in AWS D1.1, Structure Welding Code - Steel.

**Preparation per Fig. 5.2 in AWS D1.1, Structure Welding Code - Steel.

***Interrupt welds $\frac{1}{4}''$ from end of each pile.

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i	DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.	DRAWN: D.A.B.

STEEL H PILES

IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

F-HP 9-3-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35) BR-2	KENDALL	129	49
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 25
25 SHEETS
Contract No. 66399

Illinois Department of Transportation
Division of Highways
District #3, Ottawa

ROCK CORE LOG

Page 1 of 1

Date 8/3/04

ROUTE IL 25 DESCRIPTION South Abutment LOGGED BY Bud Whittington

SECTION 35 BR-2 LOCATION SW 1/4, SEC. 17, TWP. 37N, RNG. 8E, 3rd PM

COUNTY Kendall CORING METHOD

STRUCT. NO. 047-0034
Station 12+87

CORING BARREL TYPE & SIZE

BORING NO. 1
Station 13+23
Offset 7.00ft Lt
Ground Surface Elev. 626.01 ft

Core Diameter 2 in
Top of Rock Elev. 607.01 ft
Begin Core Elev. 607.51 ft

		DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Highly Fractured Gray Somewhat Argillaceous Limestone (Top 1 1/2" has Pieces of Polostone).	607.01		1	78	27		
Light Gray Limestone with Numerous 1-3 mm Gray Shale Layers. (continued)	-20						
Gray Calcareous Shale	605.71						
Light Gray Medium Grained Limestone	605.61						
Gray Calcareous Shale	604.31						
Light Gray Argillaceous Limestone with Thin Shale Layers.	604.21						
Light Gray Medium Grained Limestone.	604.11						
Light Gray Fine To Medium Grained Limestone, with 1-2 mm Shale Layers and up to 2 mm Gray Clay Inclustons.	603.71						
Gray Clay with Included Limestone Pebbles	601.41						
Light Gray Limestone with Gray Clay filled Fractures.	601.31	-25					
Light Gray Highly Argillaceous Limestone.	600.51		2	90	43		229.2
Light Gray Argillaceous Limestone with Numerous Clay Filled Holes and Fractures.	600.31						
Highly Argillaceous Limestone.	598.41		2	90	43		309.4
Calcareous Gray Shale.	598.21						
Light Gray Medium Grained Limestone.	598.01		2	90	43		57.3
Highly Argillaceous Limestone (Numerous Clay Layers and Fillings).	597.01		3	97	85		1054.3
Light Gray Argillaceous Limestone.	596.31	-30					
Highly Argillaceous Limestone.	595.01		3	97	85		366.7
Light Gray Fine to Medium Grained Limestone.	594.61						
Light Gray Argillaceous Limestone (More Clay Layers and Fillings In Lower 10 Inches).	594.11						
End of Boring	592.71		3	97	85		343.8
	-35						

Color pictures of the cores _____
Cores will be stored for examination until _____
The "Strength" column represents the unlaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

BORING 1

Illinois Department of Transportation
Division of Highways
District #3, Ottawa

ROCK CORE LOG

Page 1 of 1

Date 8/3/04

ROUTE IL 25 DESCRIPTION North Abutment LOGGED BY Bud Whittington

SECTION 35 BR-2 LOCATION SW 1/4, SEC. 17, TWP. 37N, RNG. 8E, 3rd PM

COUNTY Kendall CORING METHOD

STRUCT. NO. 047-0034
Station 12+87

CORING BARREL TYPE & SIZE

BORING NO. 2
Station 12+57
Offset 6.00ft Rt
Ground Surface Elev. 625.97 ft

Core Diameter 2 in
Top of Rock Elev. 601.97 ft
Begin Core Elev. 601.17 ft

		DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Light Gray Argillaceous Limestone	601.97						
Gray Calcareous Shale	601.57						
Light Gray Slightly Argillaceous Limestone	601.47	-25	1	82	55		1088.6
Gray Argillaceous Limestone Grades to Calcareous Shale.	600.37		1	82	55		790.7
			1	82	55		404.3
Argillaceous Limestone Grades to Calcareous Shale.	598.47						
	597.97		1	82	55		275.0
Light Gray, Slightly Argillaceous Limestone.	596.47						
Dark Gray Argillaceous Limestone and Calcaeous Shale	596.07	-30					
Light Gray Argillaceous Limestone (1" Shale at 31.5', 1/2" Shale at 32.3')							
			2	99	93		946.1
			2	99	93		802.1
Gray Highly Argillaceous Limestone	592.57						
End of Boring	591.97		2	99	93		389.6
	-35						
	-40						

Color pictures of the cores _____
Cores will be stored for examination until _____
The "Strength" column represents the unlaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

BORING 2

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-1	DATE: 01/14/08
DESIGNED: P.S.L.	CHECKED: M.D.C.
	DRAWN: D.A.B.

BORING LOGS

IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062

CONTRACT NO. 66399

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	129	50
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

B.M.#A - Chiseled "U" on No. side of conc. base for 'Mobil' gas station sign in S.E. Quad. of U.S. Rte. 34 & Jefferson St. El. 640.81

Existing Structure: Built as S.B.I. Rt. 18, Sec. 12 EXT. at Sta. 12+87 in the year 1924. Existing R.C. Deck Girder superstr. to be removed & existing closed abutts. superstr. to be rebuilt as required to accommodate new widened P.P.C. Deck Brms. superstr. Stage construction shall be utilized so as to maintain one way traffic at all times.

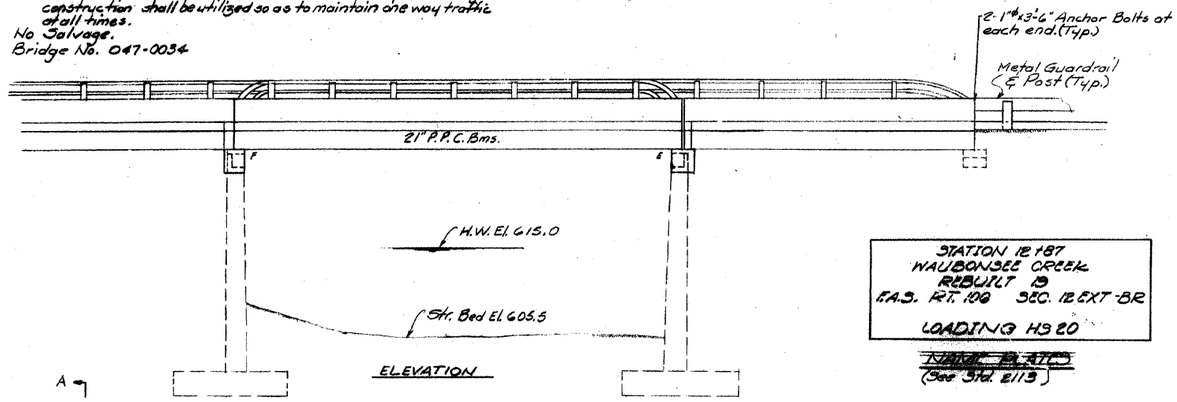
No Salvage.

Bridge No. 047-0034

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 106 & 1261	(35)BR-2	KENDALL	40	15
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 1
9 SHEETS



STATION 12+87
WAUBONSEE CREEK
REBUILT IN
F.A.S. RT. 106 SEC. 12 EXT-BR
LOADING H S 20
NAME & ATC
(See Std. 2113)

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.

All structural steel shall be shop painted with two coats of basic lead silica chromate paint.

Expansion guards which are not cast in the precast unit shall be fabricated and erected in accordance with Article 503.07 (c) of the Standard Specifications and are included in quantity of structural steel.

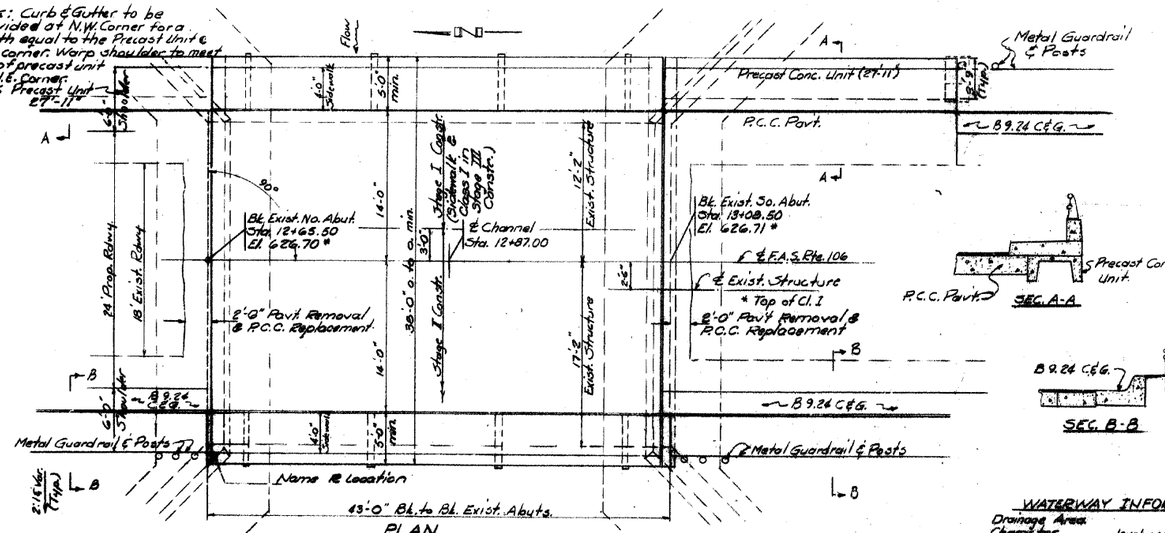
The contractor is responsible for verifying all dimensions and conditions in the field prior to construction and ordering of materials.

The top surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specifications except that the surface shall not be roughened by broaming. The finished surface shall be free of depressions or high spots with sharp corners.

The concrete rail section above the mandatory construction joint at the top of the sidewalk shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.

Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.

NOTE: Curb & Gutter to be provided at N.W. Corner for a length equal to the Precast Unit @ N.E. corner. Warp shoulder to meet top of precast unit at N.E. corner.



TOTAL BILL OF MATERIAL

Item	Unit	Super.	Sub.	Total
Bituminous Concrete Surface Course, Class I	Tons	[illegible]		[illegible]
Portland Cement Concrete Pavement (10")	Sq. Yds.	[illegible]		[illegible]
Pavement Fabric	Sq. Yds.	[illegible]		[illegible]
Concrete Removal	Cu. Yds.	[illegible]		[illegible]
Expansion Joints (3/4")	Each	[illegible]	[illegible]	[illegible]
Class X Concrete	Cu. Yds.	[illegible]	[illegible]	[illegible]
Precast Concrete Bridge Slab	Sq. Ft.	[illegible]		[illegible]
Precast Reinforced Concrete Deck Beams (21")	Sq. Ft.	[illegible]		[illegible]
[illegible]	Lin. Ft.	[illegible]		[illegible]
Paint Existing Steel Beams	Lbs.	[illegible]	[illegible]	[illegible]
Pavement Removal & P.C.C. Replacement, Type 2 (10")	Sq. Yds.	[illegible]		[illegible]
Removal of Existing Superstructure	Each	[illegible]		[illegible]
[illegible]	Cu. Yds.	[illegible]		[illegible]
[illegible]	Each	[illegible]		[illegible]
[illegible]	Lin. Ft.	[illegible]		[illegible]
[illegible]	Lbs. Ft.	[illegible]		[illegible]
Portland Cement Mortar Patching Coat	Lin. Ft.	400		400
Protective Coat	Sq. Yds.	111		111
Waterproofing Membrane System	Sq. Yds.	138		138

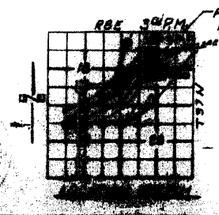
WATERWAY INFORMATION

Drainage Area: 34 sq. mi.
Character: level, gentle rolling, clay
Required Opening (50 yr.): 363 sq. ft.
Present Opening: 363 sq. ft.
Proposed Opening: 363 sq. ft.
Ordinary Water El. 609.0
Low Water El. 606.4
Q(ex) = 2736 c.f.s.
Q(pr) = 3366 c.f.s.
H.W. El.(ex) = 615.0
H.W. El.(pr) = 615.0

DESIGN STRESSES

Precast Unit's	Field Units	Precast Prestr. Conc. Units
f_c = 4500 p.s.i.	f_c = 1400 (super & sub.)	f_c = 5000 p.s.i.
f_s = 1800 p.s.i.		f'_{ci} = 4000 p.s.i.
f_s = 20,000 p.s.i.	f_s = 20,000 p.s.i. (reinf.)	f'_{ci} = 270,000 p.s.i.
n = 8	v_c = 75 p.s.i. footing	f_{ci} = 189,000 p.s.i.
	n = 10	

Allow 2 6/8" for future wearing surface



F.A.S. ROUTE 106 OVER
WAUBONSEE CREEK
F.A.S. RTE. 106 SEC. 12 EXT-BR
KENDALL CO.
STA. 12+87

LOADING H S 20-44

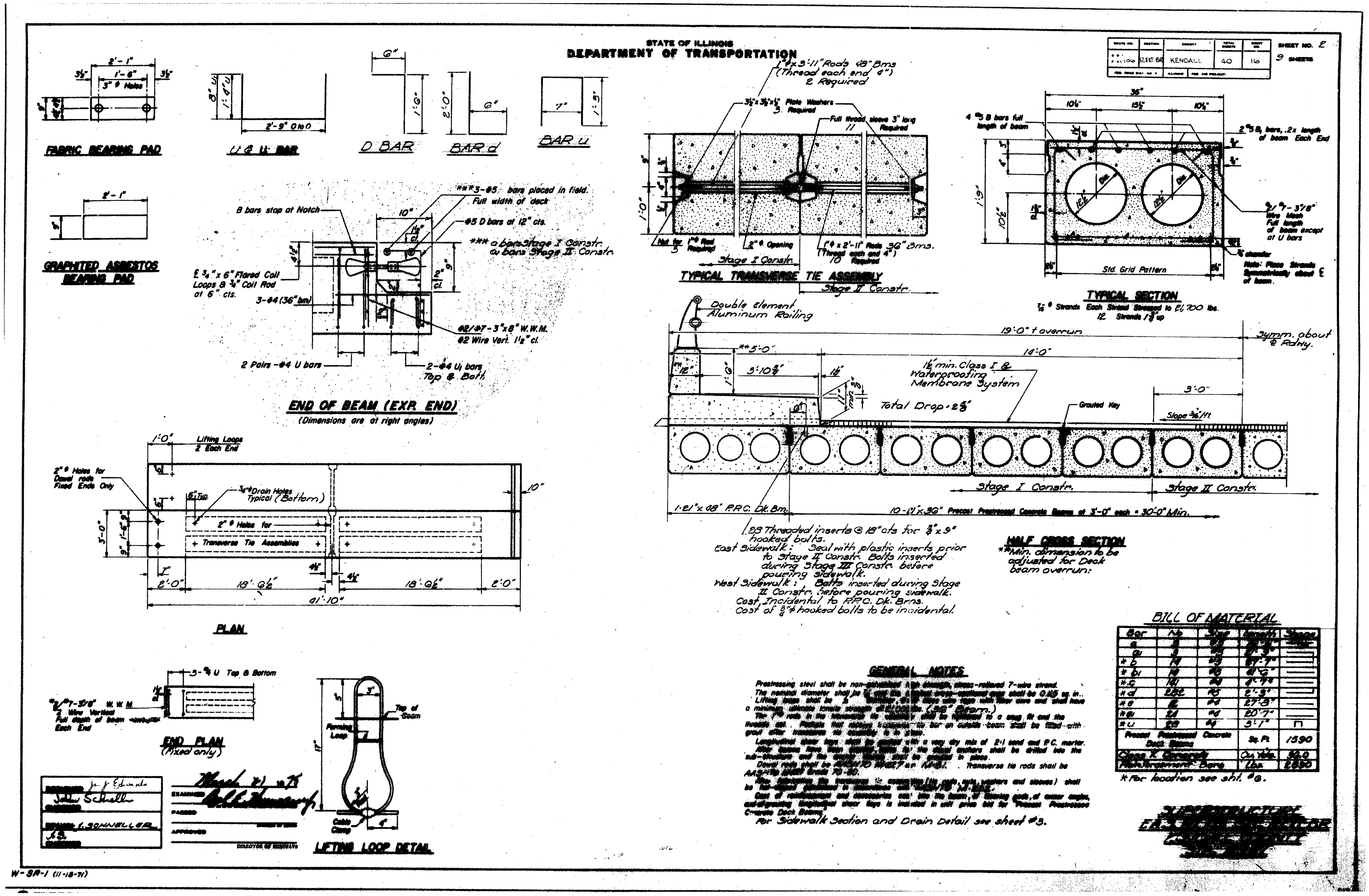
HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-1	DATE: 12/13/07
DESIGNED:	CHECKED:
DRAWN:	

EXISTING BRIDGE PLANS
SECTION (35) BR-2
IL 25 OVER WAUBONSEE CREEK
KENDALL COUNTY

CONTRACT NO. 66399

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	129	51
FED. ROAD DIST. NO. 5		ILLINOIS	FED. AID PROJECT-	



HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS		
HLR	3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400	
ELGIN • SPRINGFIELD		
PROJECT NUMBER: 12-06-0029-1		DATE: 12/13/07
DESIGNED:	CHECKED:	DRAWN:

EXISTING BRIDGE PLANS

SECTION (35) BR-2

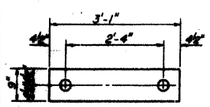
IL 25 OVER WAUBONSEE CREEK

KENDALL COUNTY

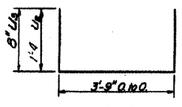
CONTRACT NO. 66399

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	129	52
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

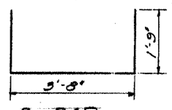
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



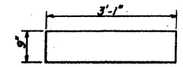
FABRIC BEARING PAD



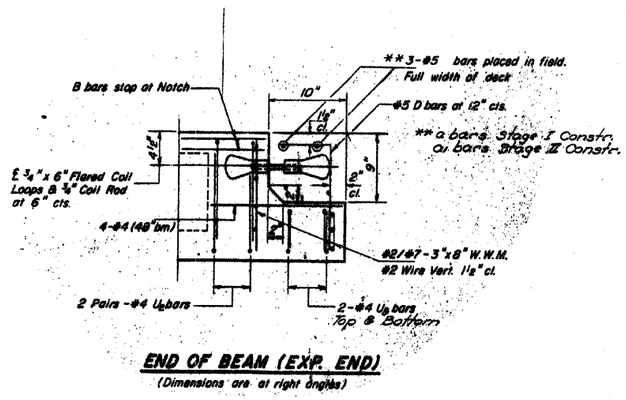
U2 & U3 BAR



J1 BAR



GRAPHITED ASBESTOS BEARING PAD

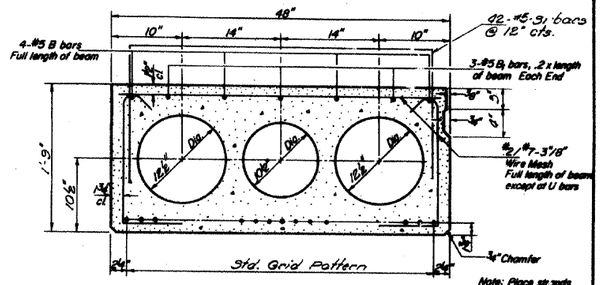


END OF BEAM (EXP. END)
(Dimensions are at right angles)

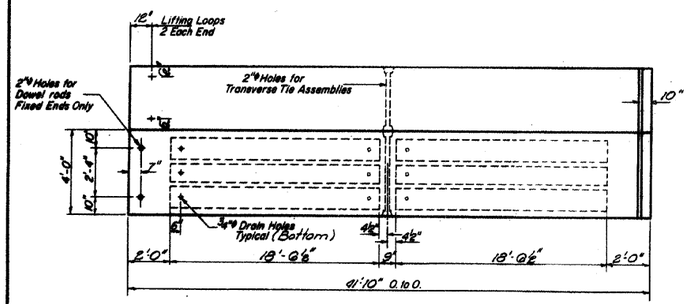
Note: Omit key on exterior face of beam.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
A.B.I. F.A.S.1916	(35)BR	KENDALL	40	17
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

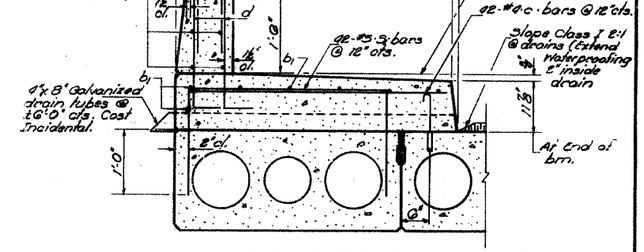
SHEET NO. 3
9 SHEETS



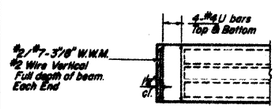
TYPICAL SECTION
-7/16"ϕ Strands, Each Strand Stressed to 21,700 Lbs.
13 -Strand: 7/8"ϕ up,



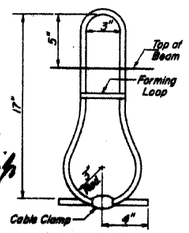
PLAN



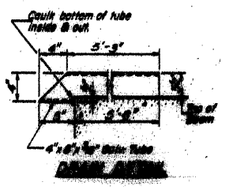
SIDEWALK SECTION
Sidewalk & Parapet shall be poured in field. Class X Concrete & Reinforcement Bars are billed with superstructure sht. #2.



END PLAN
(Fixed end only)



LIFTING LOOP DETAIL



NOTES

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270. The nominal diameter shall be 7/16" and the nominal cross-sectional area shall be 0.115 sq. in.

Lifting loops shall be ¾" diameter, 6 x 19 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 33,000 lbs.

The 1¼" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.

Longitudinal shear keys shall be pointed with a very dry mix of 2:1 sand and P.C. mortar.

After beams have been erected, holes for the dowel anchors shall be drilled into the substructure and the anchor dowels shall be grouted in place.

Dowel rods shall be AASHTO M-227 or M-31. Transverse tie rods shall be AASHTO M-227 Grade 70-80.

After fabrication the transverse tie assemblies (tie rods, nuts, washers and sleeves) shall be hot-dipped galvanized in accordance with AASHTO M-232.

Cost of reinforcement and accessories cast into the beam, of bearing pads, of armor angles, and of grouting longitudinal shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beams."

For Cross Section, Bar details, Transverse Tie Assembly and Bill of Material see sheet #2.

SUPERSTRUCTURE
F.A.S. Rte. 1916 Sec. (35)BR
KENDALL COUNTY
Sht. 1 of 2

DESIGNED	K. J. Schneller	March 31, 1976
CHECKED	J.S.	
DRAWN	J. SCHNELLER	
CHECKED	J.S.	
STRUCTURE NO.		
PASSED		
APPROVED		DIRECTOR OF HIGHWAYS

PD-2-S 1-1-73

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

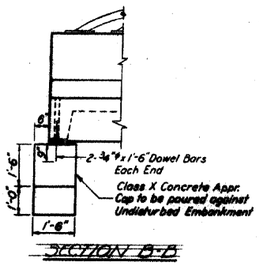
PROJECT NUMBER: 12-06-0029-i	DATE: 12/13/07
DESIGNED:	CHECKED: DRAWN:

EXISTING BRIDGE PLANS
SECTION (35) BR-2
IL 25 OVER WAUBONSEE CREEK
KENDALL COUNTY

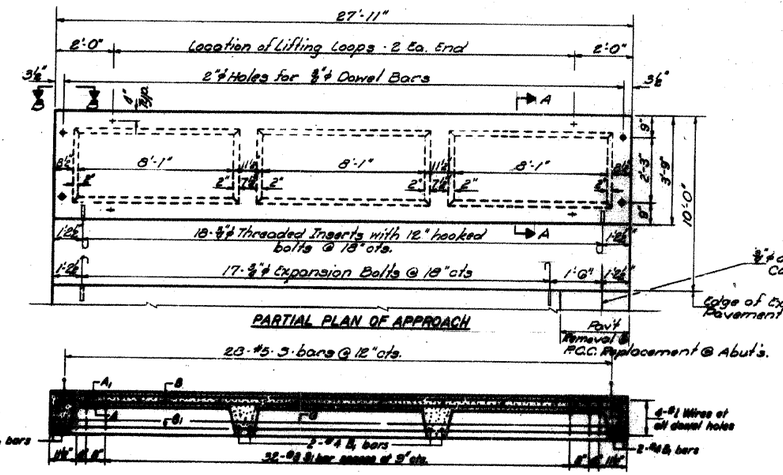
CONTRACT NO. 66399

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	129	53
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

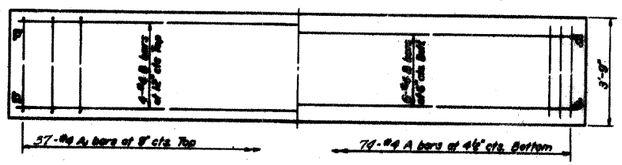


SECTION B-B

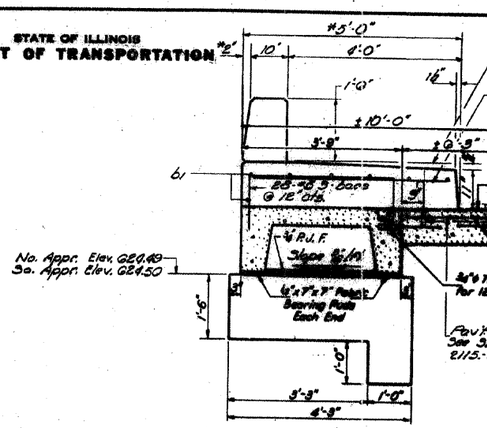


PARTIAL PLAN OF APPROACH

LONGITUDINAL SECTION

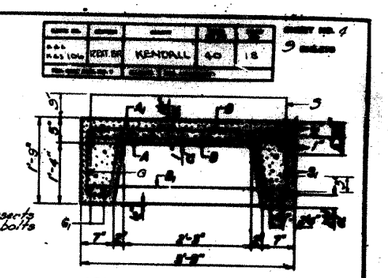


SLAB REINFORCEMENT



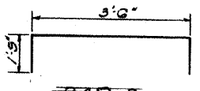
SECTION A-A

* Min. dimension to be adjusted for deck beam overrun.
** Seal inserts with plastic inserts prior to Stage II Constr. ¾"ø x 3" hooked bolts to be inserted during Stage III Constr. prior to pouring sidewalk. Cost Incidental to 10" Portland Cement Concrete Pavement.

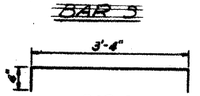


SECTION THRU PRECAST UNIT

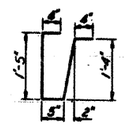
Pav't Fabric See Std. 2111.2



BAR 3



BAR A1



BAR S1

PRE-CAST UNIT

A	37			
A1	9			
B	9		27'-7"	
B1	1		15'-0"	
G	2	#8	27'-7"	
G1	4	#10	27'-7"	
S	28	#5	9'-0"	
S1	74	#4	5'-0"	10

NOTES

Unless otherwise approved by the Engineer, lifting loops shall be ¾" 6 x 19 class wire rope with fiber core and shall have a minimum ultimate strength of 12,000 lbs. Loops shall be clamped off after slab has been erected. Holes shall be drilled and mortar sleeves grouted in place.

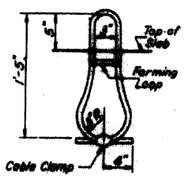
Cost of reinforcement and accessories used into the slab and bearing pads, furnishing, drilling for, placing and grouting mortar sleeves and ASTM anchor bolts is included in unit bid price for "Prestressed Concrete Bridge Slab."

The Precast Concrete Bridge Slab shall be erected and aligned with the exterior face of the exterior Deck Beam after Deck Beams are in final position.

BILL OF MATERIAL

Reinforcement, Bars	Kg (Lb)	209
Reinforcement, Wire	Kg (Lb)	39
Concrete		3.8

Class X Concrete @ Reinf. bars for sidewalk & curb billed on sheet #2.



LIFTING LOOP DETAIL

STRESSES
ft = 4,000 psi
fc = 1,800 psi
fs = 20,000 psi
n = 10

LOADING HS-20

APPROACH PANELS

DESIGNED	J. P. Edwards
DRAWN	
CHECKED	J. SCHNELLER
QUANTITIES	J.S.
CHECKED	

EXAMINED: Ward 7/31/08
PASSED:
APPROVED:
DIRECTOR OF HIGHWAYS

AP-4, >80' Precast Appr. Unit (Rt. L) (8-15-7)

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

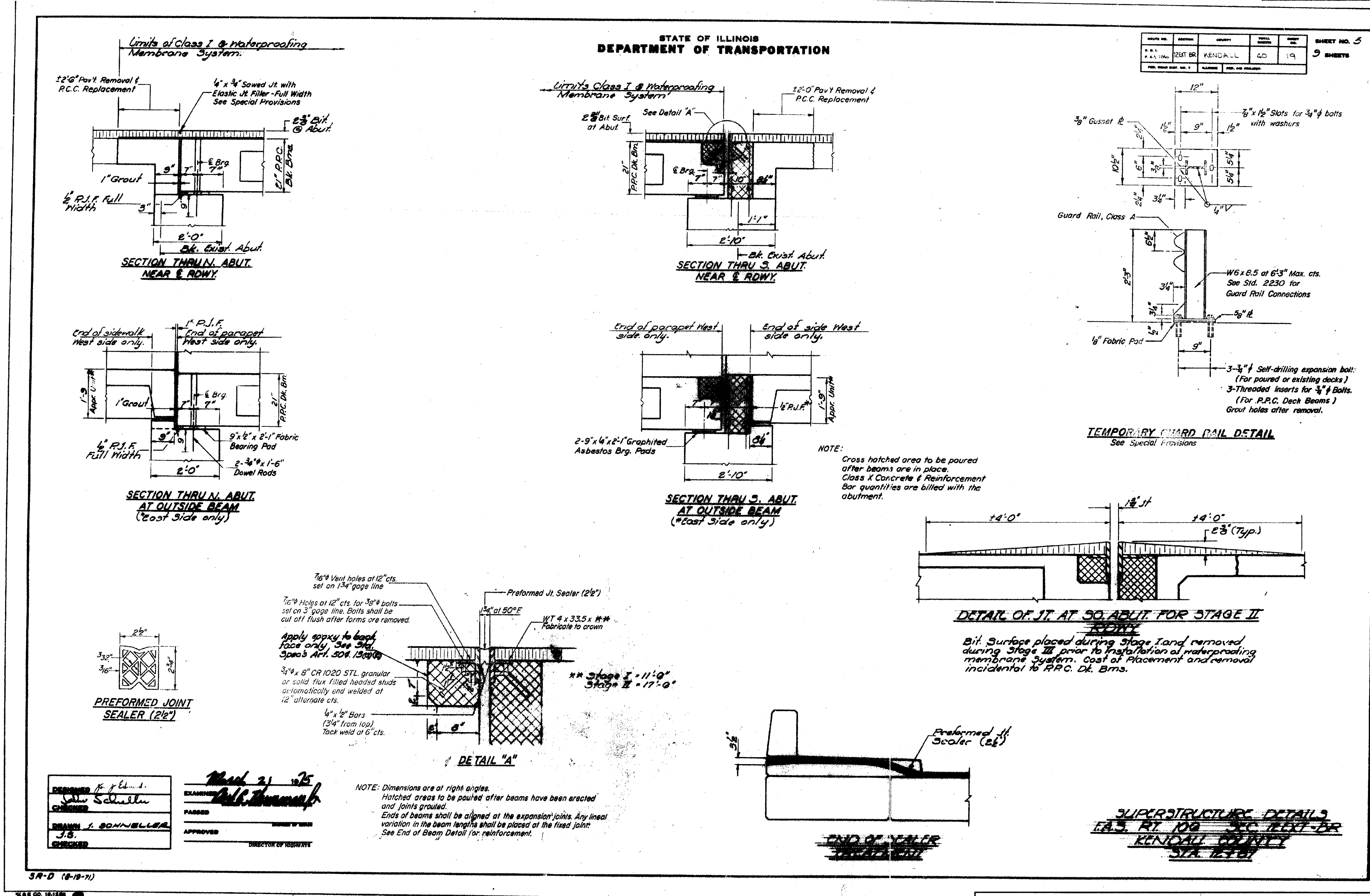
PROJECT NUMBER: 12-06-0029-1	DATE: 12/13/07
DESIGNED:	CHECKED:
DRAWN:	

EXISTING BRIDGE PLANS
SECTION (35) BR-2
IL 25 OVER WAUBONSEE CREEK
KENDALL COUNTY

06029-sht-bridge plans.dgn 1/24/2008 8:35:06 AM

CONTRACT NO. 66399

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	129	54
FED. ROAD DIST. NO. 5		ILLINOIS	FED. AID PROJECT	



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SECTION THRU N. ABUT. NEAR ℄ RDWY.
SECTION THRU S. ABUT. NEAR ℄ RDWY.
SECTION THRU N. ABUT. AT OUTSIDE BEAM (East Side only)
SECTION THRU S. ABUT. AT OUTSIDE BEAM (East Side only)
TEMPORARY GUARD RAIL DETAIL
See Special Provisions
NOTE: Cross hatched area to be poured after beams are in place. Class X Concrete & Reinforcement Bar quantities are billed with the abutment.
DETAIL OF JT. AT SO. ABUT. FOR STAGE II RDWY.
Bit. Surface placed during Stage I and removed during Stage II prior to installation of waterproofing membrane System. Cost of Placement and removal incidental to P.P.C. Dk. Bms.
PREFORMED JOINT SEALER (2½")
DETAIL "A"
NOTE: Dimensions are at right angles. Hatched areas to be poured after beams have been erected and joints grouted. Ends of beams shall be aligned at the expansion joints. Any lineal variation in the beam lengths shall be placed at the fixed joint. See End of Beam Detail for reinforcement.
SUPERSTRUCTURE DETAILS
SA-D (8-19-71)

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS

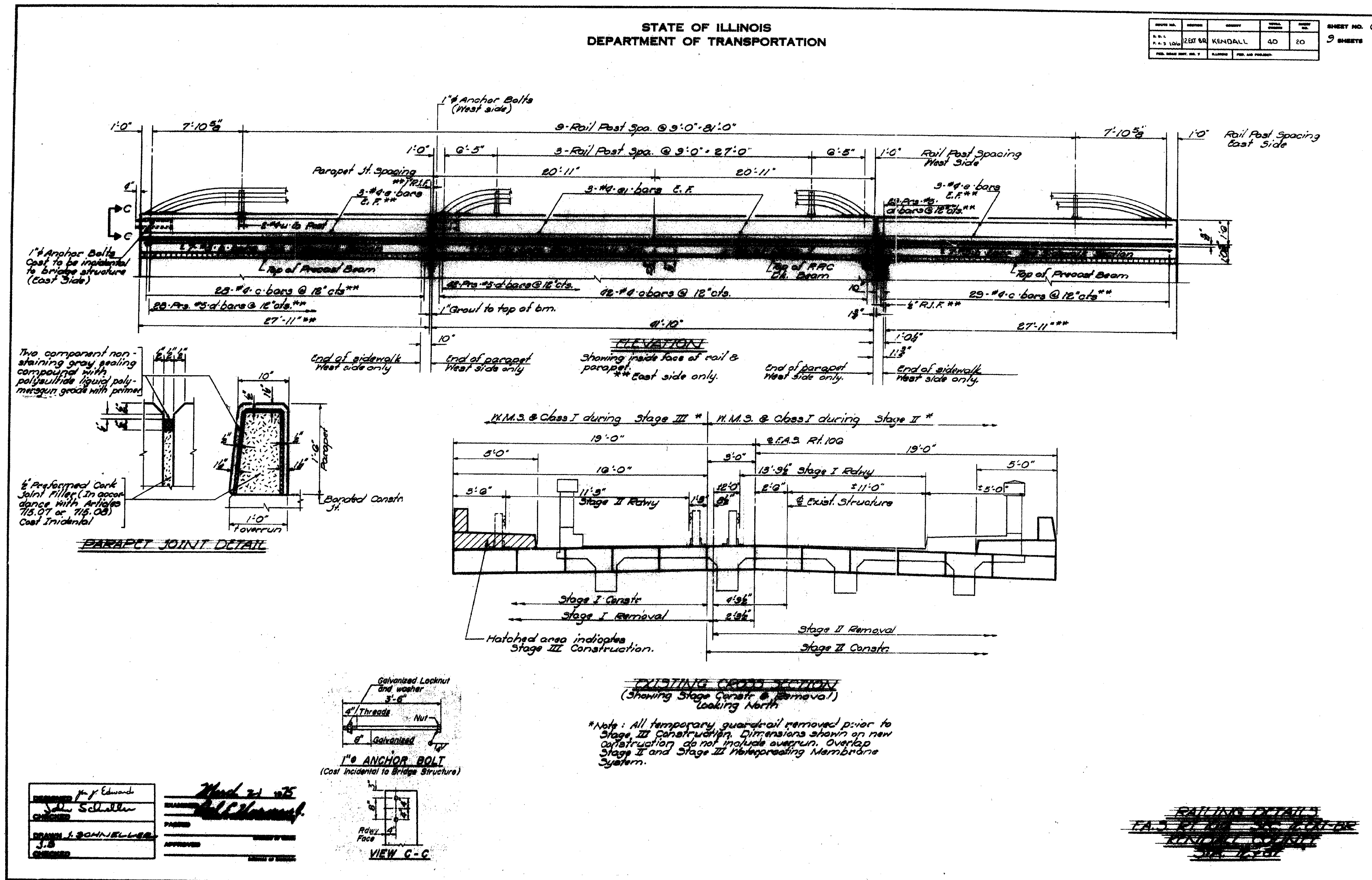
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i	DATE: 12/13/07
DESIGNED:	CHECKED:	DRAWN:

EXISTING BRIDGE PLANS
SECTION (35) BR-2
IL 25 OVER WAUBONSEE CREEK
KENDALL COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	129	55
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		



HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS

HLR

3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i	DATE: 12/13/07
DESIGNED:	CHECKED:	DRAWN:

EXISTING BRIDGE PLANS

SECTION (35) BR-2

IL 25 OVER WAUBONSEE CREEK

KENDALL COUNTY

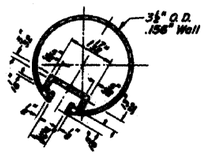
CONTRACT NO. 66399

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	129	56
FED. ROAD DIST. NO.	5	ILLINOIS	FED. AID PROJECT	

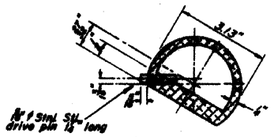
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. R.A.I. 136	(35)BR-2 EXT. BR.	KENDALL	40	21
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

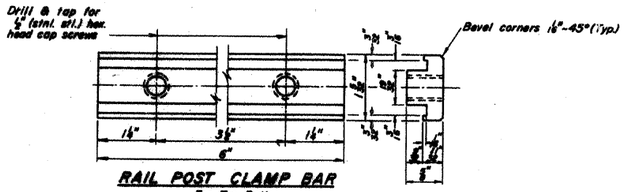
SHEET NO. 7
9 SHEETS



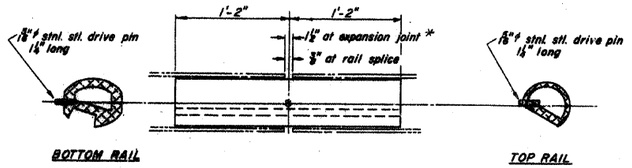
SECTION THRU TOP RAIL



SECTION THRU SPLICE
TOP RAIL



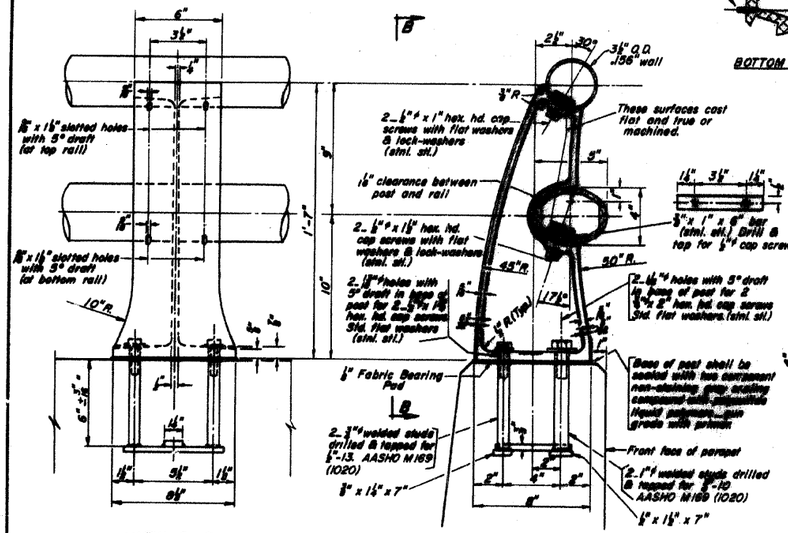
RAIL POST CLAMP BAR
For Top Rail



BOTTOM RAIL

RAIL SPLICE
*At South Abut. East rail only.

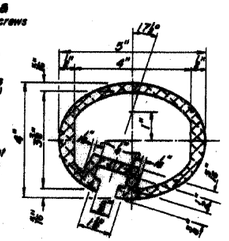
TOP RAIL



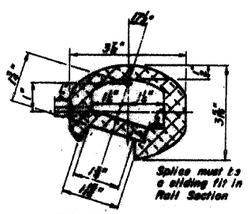
VIEW B-B

SECTION A-A

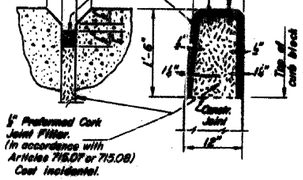
RAIL POST DETAILS



SEC. THRU ELLIPTICAL RAIL SECTION



SEC. THRU SPLICE



PARAPET JOINT DETAIL

NOTES:

All Posts shall be normal to parapet.

All Aluminum Alloy Extruded Rail shall be supplied in modular lengths of 30 feet, except at the end of bridge or over open joints in bridge deck where the rail shall be attached to a minimum of 2 posts. If the rail is on a horizontal curve of 2300 foot radius or less, the modular lengths may be reduced but shall be attached to a minimum of 2 posts.

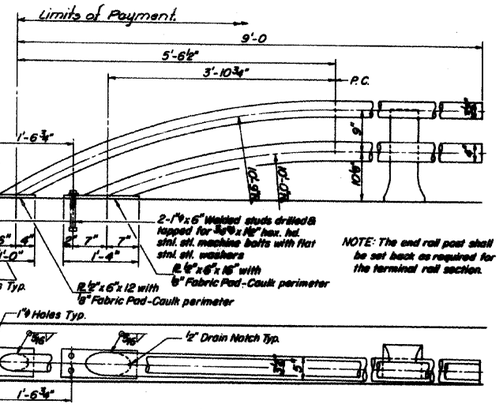
All joints in rail shall be spliced per detail.

Provide 1-⅛" and 2-1/16" Aluminum Shims for 25 % of the Posts. Rail elements shall be parallel to Grade – high spots shall be ground and low spots shimmed.

Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per lineal foot for ALUMINUM RAILING, TYPE L.

Aluminum alloy rail shall conform to ASTM B 221 alloy 6061-T6 or 6351-T5 with min. yield 35 ksi, min. tensile 38 ksi, and elongation of 10 % in 2 inches.

Stainless steel machine bolts or cap screws shall be in accordance with Article 710.37 (a) of the Standard Specifications except Grade BB or BBM may be furnished.



NOTE: The end rail post shall be set back as required for the terminal rail section.

RAIL TERMINAL SECTION

BILL of MATERIALS

Item	Unit	Quantity
ALUMINUM RAILING, TYPE L	Lin. ft.	137

TYPE L
ALUMINUM RAILING
F.A.S. ROUTE 2503 SECTION (35)BR-2
KENDALL COUNTY
STA. 12+37

DESIGNED	M. J. Edwards	
CHECKED	J. Schneller	
DRAWN	J. SCHNELLER J.S.	
CHECKED		

EXAMINED: Mark 21 1978
PASSED:
APPROVED: Robert Hanson
DIRECTOR OF HIGHWAYS

R-20 4-15-73

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i		DATE: 12/13/07
DESIGNED:	CHECKED:	DRAWN:

EXISTING BRIDGE PLANS
SECTION (35) BR-2
IL 25 OVER WAUBONSEE CREEK
KENDALL COUNTY

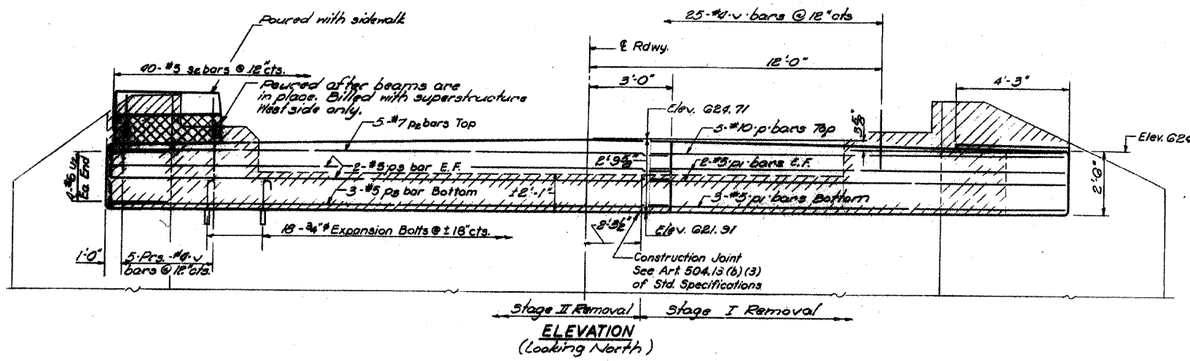
CONTRACT NO. 66399

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	129	57
FED. ROAD DIST. NO. 5		ILLINOIS	FED. AID PROJECT	

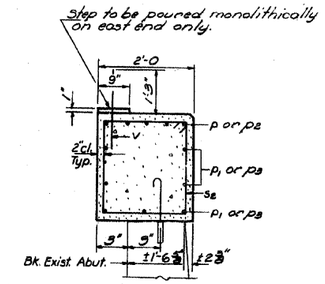
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1016	(35)BR-2 EXT. BR	KENDALL	140	22
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

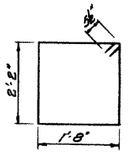
SHEET NO. 8
9 SHEETS



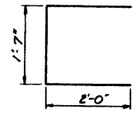
ELEVATION
(Looking North)



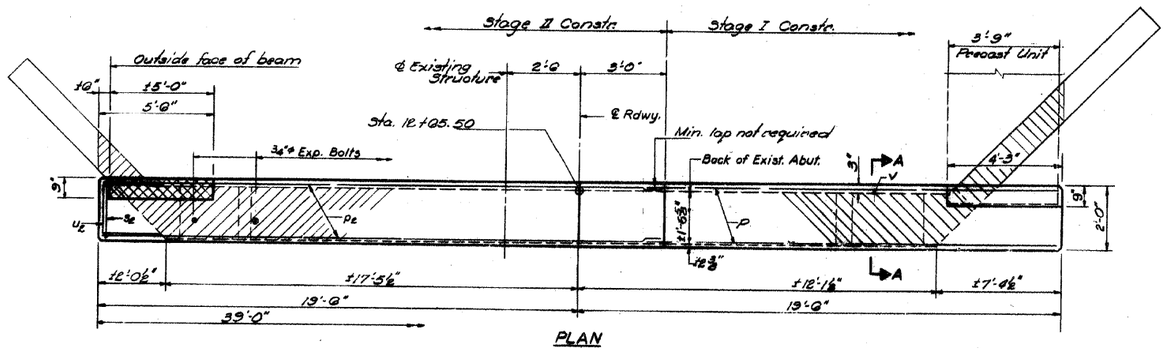
SECTION A-A



BAR S2



BAR U2



PLAN

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
P	3	#10	17'-0	
P1	7	#5	17'-0	
P2	5	#7	22'-9	
P3	7	#5	22'-9	
S2	80	#5	8'-7	
U2	8	#6	3'-7	
V	35	#4	2'-9	
Class X Concrete		Cu. Yds.	7.7	
Reinforcement Bars		Lbs	1970	
Expansion Bolts ¾"ø		Each	18	
Concrete Removal		Cu Yds	5.5	

NOTE
Hatched area indicates Concrete Removal. Reinforcement extending into removed area shall be cleaned and incorporated into the new construction.
Expansion bolts shall be anchored in sound concrete.
All edges shall have standard ¾" chamfers except as noted.
Exposed wingwall reinforcement shall be cut flush and covered with mortar.

DESIGNED	K.J. Edwards
DRAWN	J.W. Schneller
CHECKED	J.S.
EXAMINED	March 24 1976
PASSED	Carl E. Hamann Jr.
APPROVED	DIRECTOR OF HIGHWAYS

NORTH ABUTMENT
F.A.S. RTE 1016 SEC (35)BR-2 EXT-BR
KENDALL COUNTY
SHEET 8 OF 9 SHEETS

A-1 (8-18-71) Fixed

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i	DATE: 12/13/07
DESIGNED:	CHECKED:
DRAWN:	

EXISTING BRIDGE PLANS
SECTION (35) BR-2
IL 25 OVER WAUBONSEE CREEK
KENDALL COUNTY

CONTRACT NO. 66399

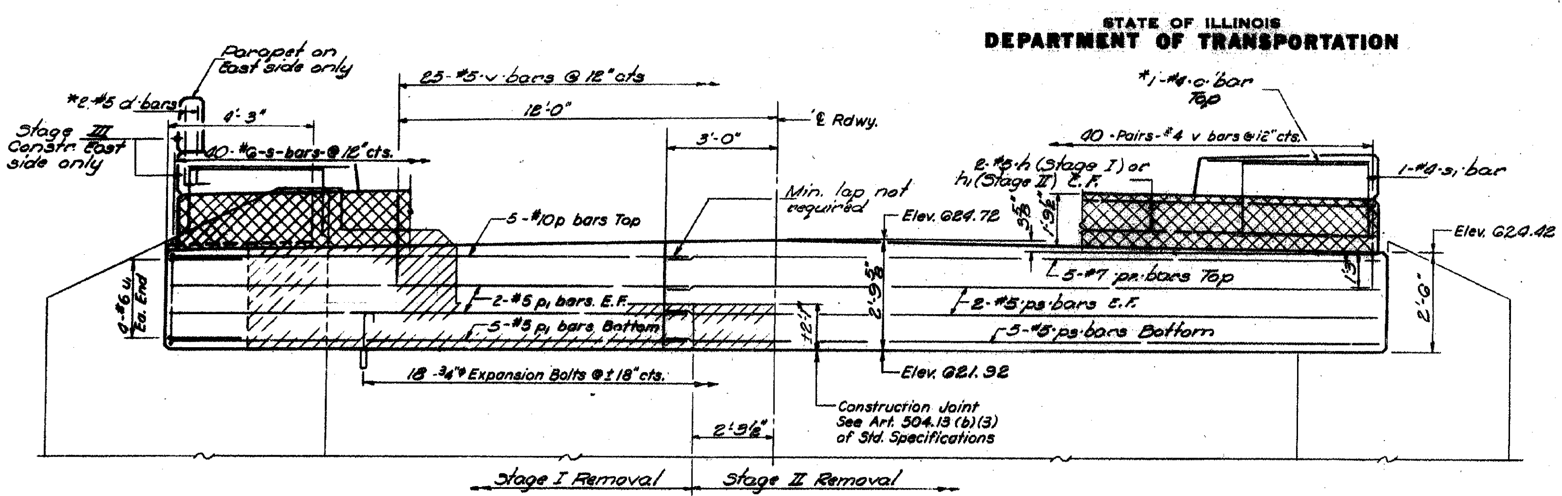
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	129	58
FED. ROAD DIST. NO. 5		ILLINOIS	FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

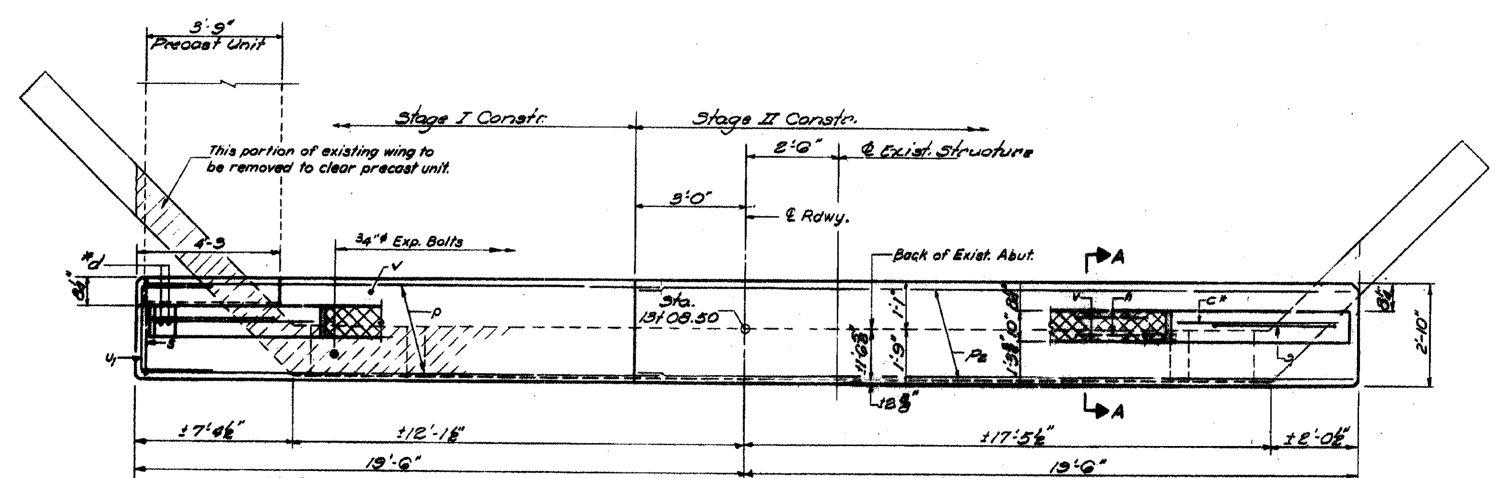
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 106	121ST.BR	KENDALL	40	23

SHEET NO. 9
9 SHEETS

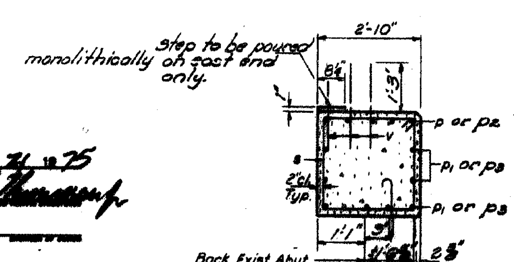
*Included with quanities on sheet #2.



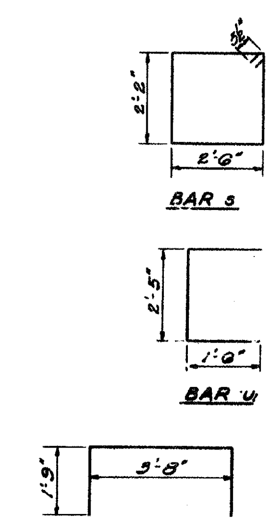
ELEVATION
(Looking South)



PLAN



SECTION A-A



NOTES:

Hatched area indicates Concrete Removal. Reinforcement extending into removed area shall be cleaned and incorporated into the new construction.

Cross hatched area shall be poured after beams are in place. Class X Concrete billed with superstructure.

Expansion bolts shall be anchored in sound concrete.

All edges shall have standard 3/4" chamfers except as noted.

Exposed wingwall reinforcement shall be cut flush and covered with mortar.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	4	#5	17'-0"	—
h1	4	#5	22'-3"	—
p	5	#10	17'-0"	—
p1	9	#5	17'-0"	—
p2	5	#7	22'-6"	—
p3	9	#5	22'-3"	—
s	40	#6	10'-3"	▫
s1	2	#4	7'-2"	⊓
u1	8	#6	5'-5"	⊏
v	105	#4	2'-3"	—
Expansion Bolts 3/4"φ			Each	18
Concrete Removal			Cu. Yds.	5.6
Class X Concrete			Cu. Yds.	10.3
Reinforcement Bars			Lbs.	2010

~~SOUTH ABUTMENT~~
~~F.A.S. RT. 106 SEC. 121ST.BR~~
~~KENDALL COUNTY~~

DESIGNED J. J. Edwards
John Schuller
DRAWN J. SCHUELLER
J.S.
CHECKED

EXAMINED March 21, 1975
Carl E. Ruenzer, Jr.
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

A-2 (5-15-71) Expansion

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
HLR
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i	DATE: 12/13/07
DESIGNED:	CHECKED:	DRAWN:

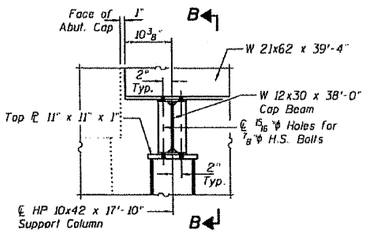
EXISTING BRIDGE PLANS
SECTION (35) BR-2
IL 25 OVER WAUBONSEE CREEK
KENDALL COUNTY

CONTRACT NO. 66399

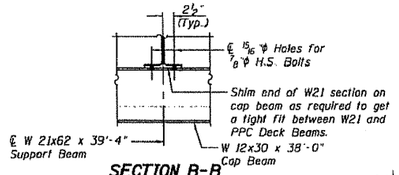
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	129	59
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

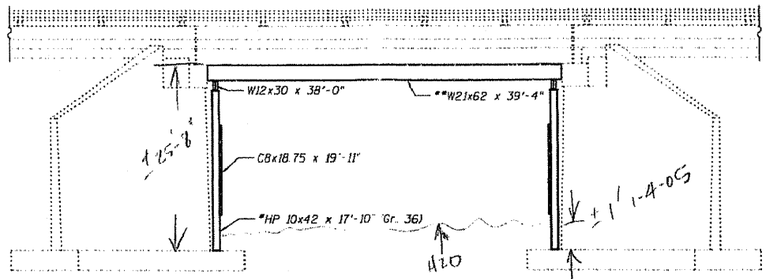
'AS BUILT'



END OF SUPPORT BEAM DETAIL



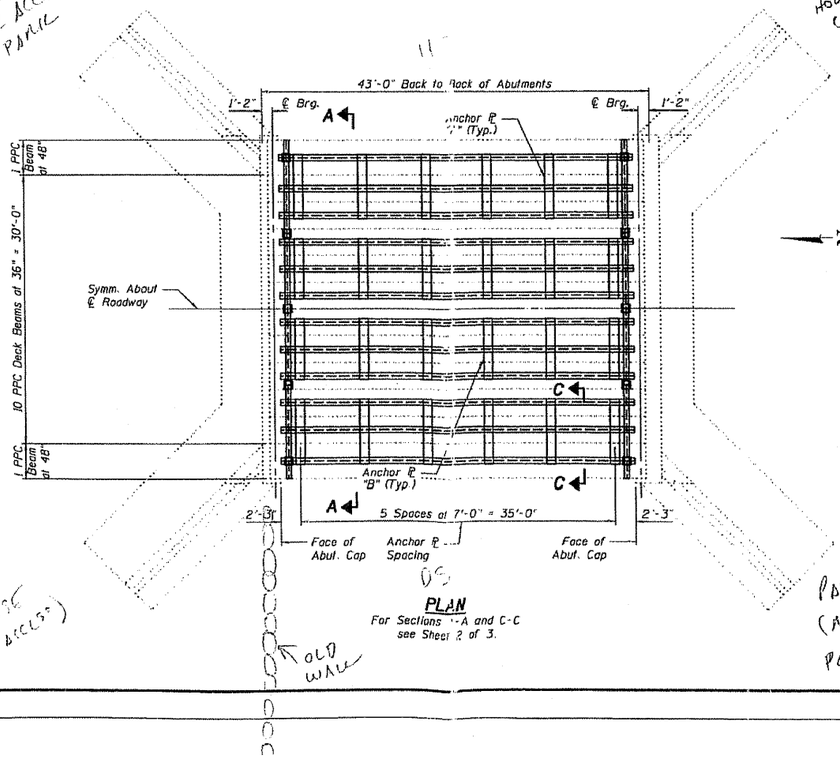
SECTION B-B



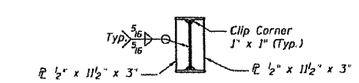
*The Contractor must verify dimensions in the field to match existing conditions.

ELEVATION

**Contractor may substitute other readily available beam size. Beam shall be W21 or W24 and shall have a minimum Sx=127 in³. If grade 36 steel is used, a minimum Sx=171 in³ is required. If W24 section is used adjustment of the HP sections length will be required.



PLAN
For Sections A-A and C-C see Sheet 2 of 3.



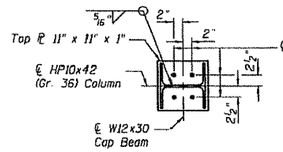
BEARING STIFFENER DETAIL
(Stiffeners are located on the cap beam above every support column)
(20 ℄'s required)

STATE OF ILLINOIS
RALPH E ANDERSON
081-004625
LICENSED STRUCTURAL ENGINEER
SPRINGFIELD

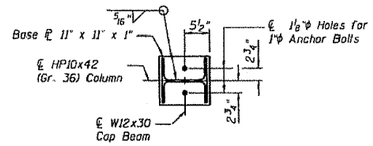
Expires 11-30-06

DESIGNED	JEY 3 Eads	EXAMINED	John A. Morris, ENGINEER OF STRUCTURAL SUPPORTS
CHECKED	Nick H. Vest	PASSED	Ralph E Anderson, ENGINEER OF BRIDGES AND STRUCTURES
DRAWN	[illegible]		
CHECKED	JES VHV		

SHEET NO. 1
3 SHEETS



TOP ℄ DETAIL



BASE ℄ DETAIL
For Anchor Bolt details see Sheet 3 of 3.

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 50. unless otherwise noted.
Calculated weight of new structural steel = 35,590 (Gr. 50)
= 9680 (Gr. 36)
Fasteners shall be high strength bolts. Bolts 7/8"ϕ, open holes 15/16"ϕ. unless otherwise noted.
All new structural steel shall be shop painted with an inorganic zinc rich primer per AASHTO M300, Type 1.
Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Furnishing and Erecting Structural Steel	Pound	45670

PLAN, ELEVATION AND DETAILS
F.A.S. RT. 106 OVER
WAUBONSEE CREEK
KENDALL COUNTY
SN 047-0034

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HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-1		DATE: 12/13/07
DESIGNED:	CHECKED:	DRAWN:

AS-BUILT BRIDGE PLANS
SECTION (35) BR-2
IL 25 OVER WAUBONSEE CREEK
KENDALL COUNTY

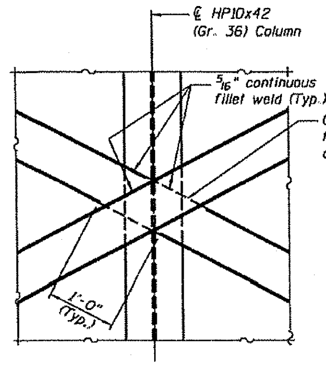
CONTRACT NO. 66399

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	129	60
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		

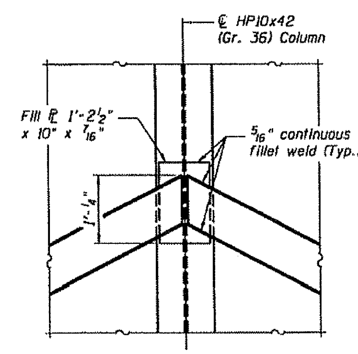
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		Kendall		

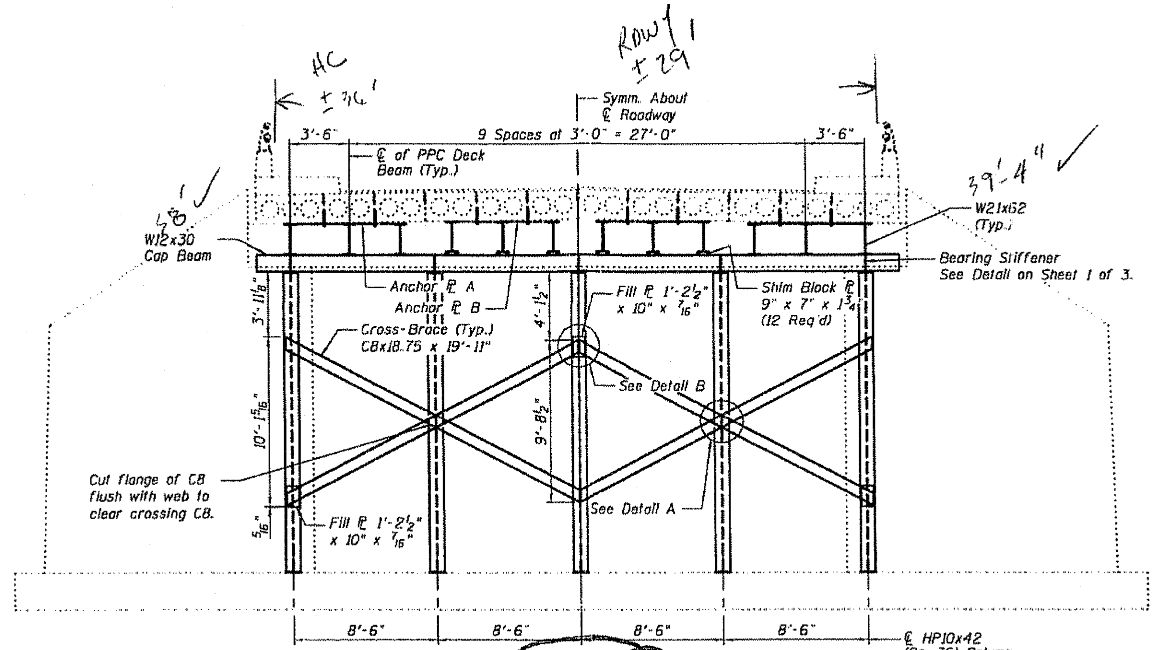
SHEET NO. 2
3 SHEETS



DETAIL A

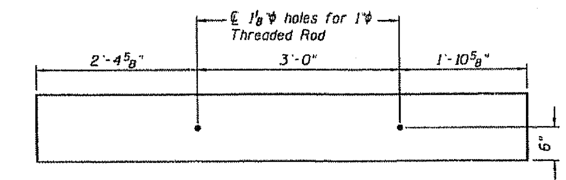


DETAIL B

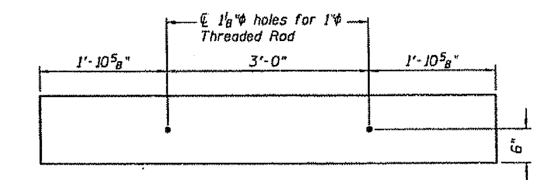


SECTION A-A

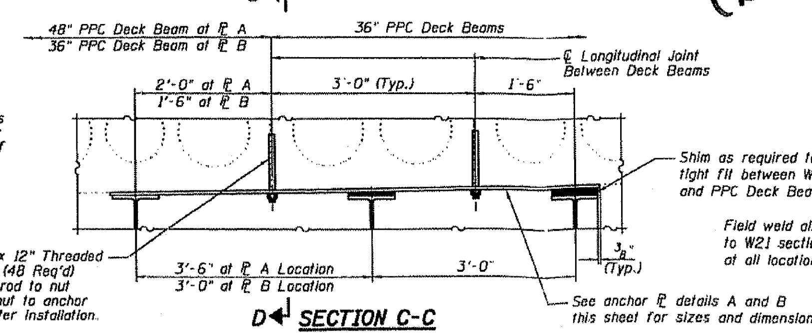
SEE REVISED SECTION A-A (ATTACHED)



ANCHOR PLATE A
℄ 7'-3¼" x 1'-0" x ½"
(12 Required)



ANCHOR PLATE B
℄ 6'-9¼" x 1'-0" x ½"
(12 Required)

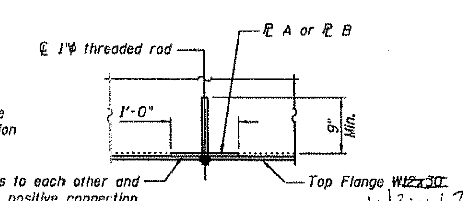


*Drill and epoxy grout 1"φ threaded rods a minimum of 9" into existing PPC Deck Beam Joints according to Article 584 of the Standard Specifications using the Anchor ℄'s as a template.

D SECTION C-C

TYPICAL ANCHOR SHIM AND SHIM DETAIL

Contractor to provide shims at all longitudinal beam joints in the dimensions of 1'-4" x 1'-0", of the required thickness between the W21x62 and the bottom of the PPC Deck Beams. Shims to be centered on all longitudinal beams. Thickness varies from 0" at the fascia beam to ±3½" at the ℄ of Roadway.



Field weld all shims to each other and to W21 section for positive connection at all locations.

SECTION D-D

DESIGNED	J.S.B.
CHECKED	V.H.V.
DRAWN	Drew Christopher
CHECKED	J.S.B. V.H.V.

December 10, 2004
EXAMINED John A. Morris — ENGINEER OF STRUCTURAL SERVICES
PASSED Ralph E. Anderson — ENGINEER OF BRIDGES AND STRUCTURES

ABUTMENT ELEVATION AND DETAILS
F.A.S. RT. 106 OVER
WAUBONSEE CREEK
KENDALL COUNTY
SN 047-0034

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HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-1		DATE: 12/13/07
DESIGNED:	CHECKED:	DRAWN:

AS-BUILT BRIDGE PLANS
SECTION (35) BR-2
IL 25 OVER WAUBONSEE CREEK
KENDALL COUNTY

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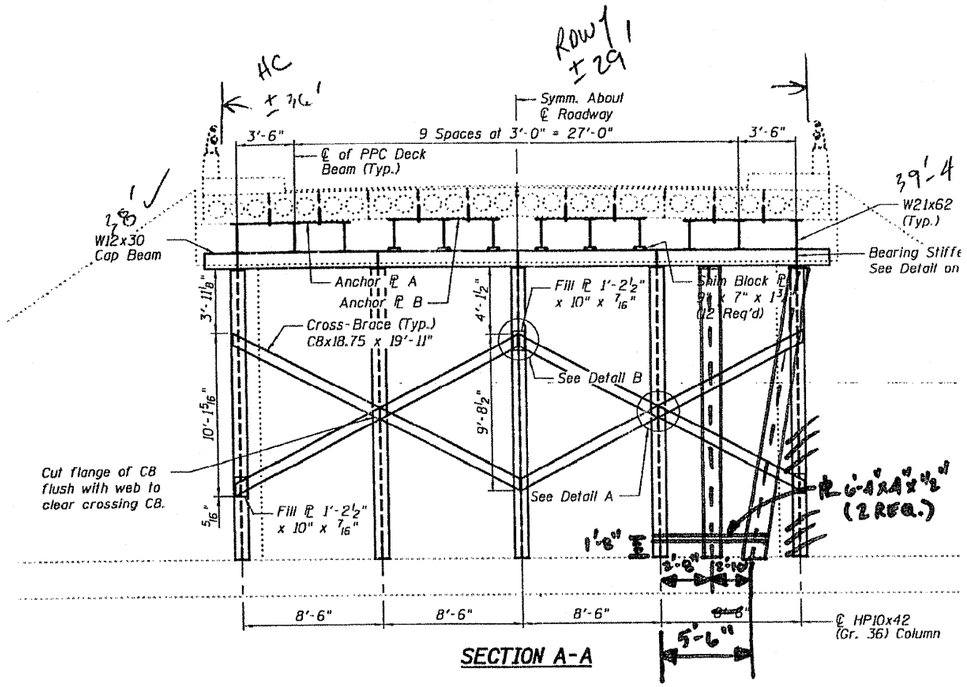
CONTRACT NO. 66399

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	129	61
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

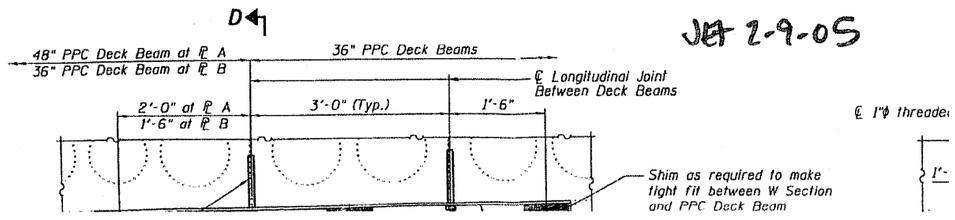
REVISED SECTION A-A 2A

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SECTION A-A

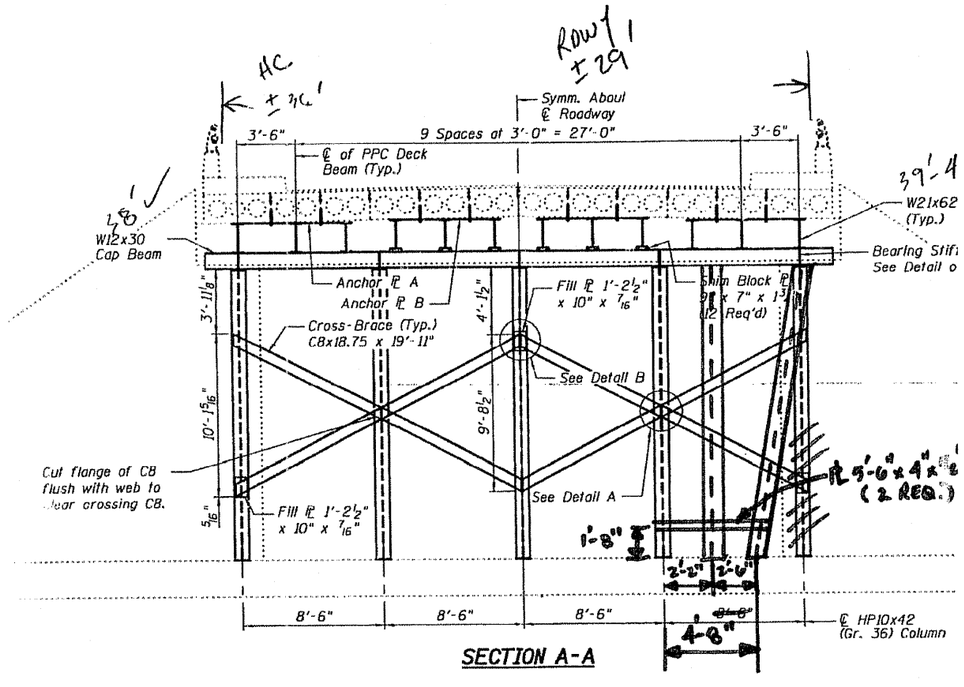
LOOK N.
S.ABT.



JET 2-9-05

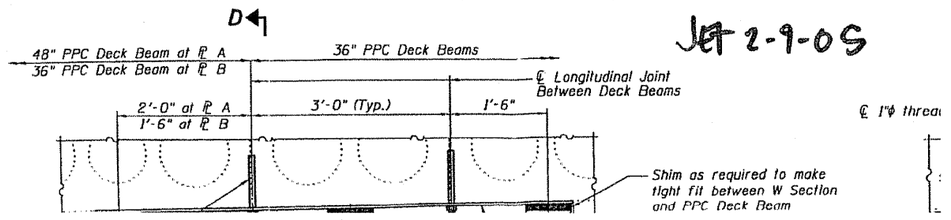
REVISED SECTION A-A 2D

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SECTION A-A

LOOK N.
N.ABT.



JET 2-9-05

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-i	DATE: 12/13/07
DESIGNED:	CHECKED:
	DRAWN:

AS-BUILT BRIDGE PLANS

SECTION (35) BR-2
IL 25 OVER WAUBONSEE CREEK
KENDALL COUNTY

CONTRACT NO. 66399

FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2503	(35)BR-2	KENDALL	129	62
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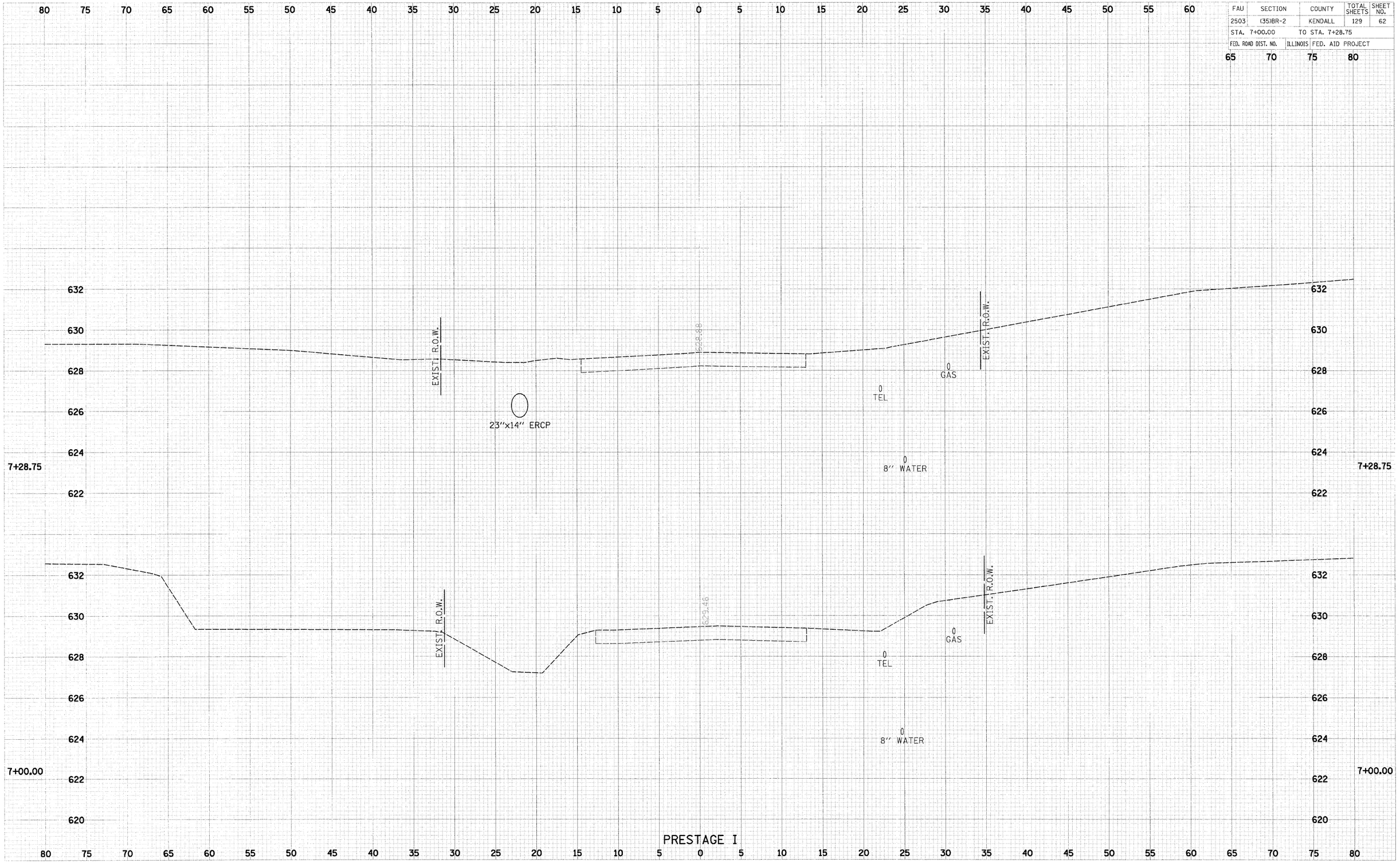
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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CONTRACT NO. 66399

FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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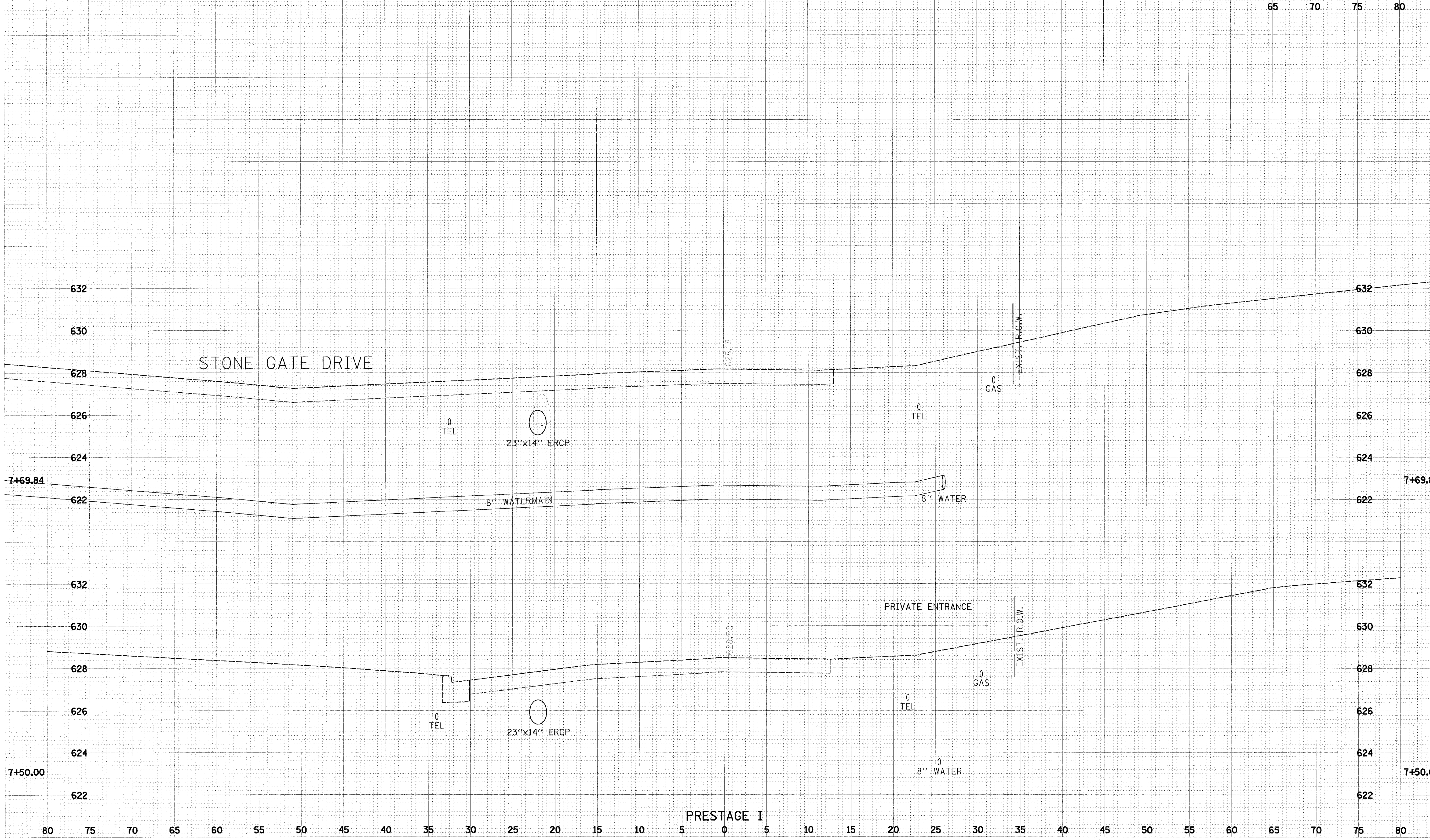
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CONTRACT NO. 66399

FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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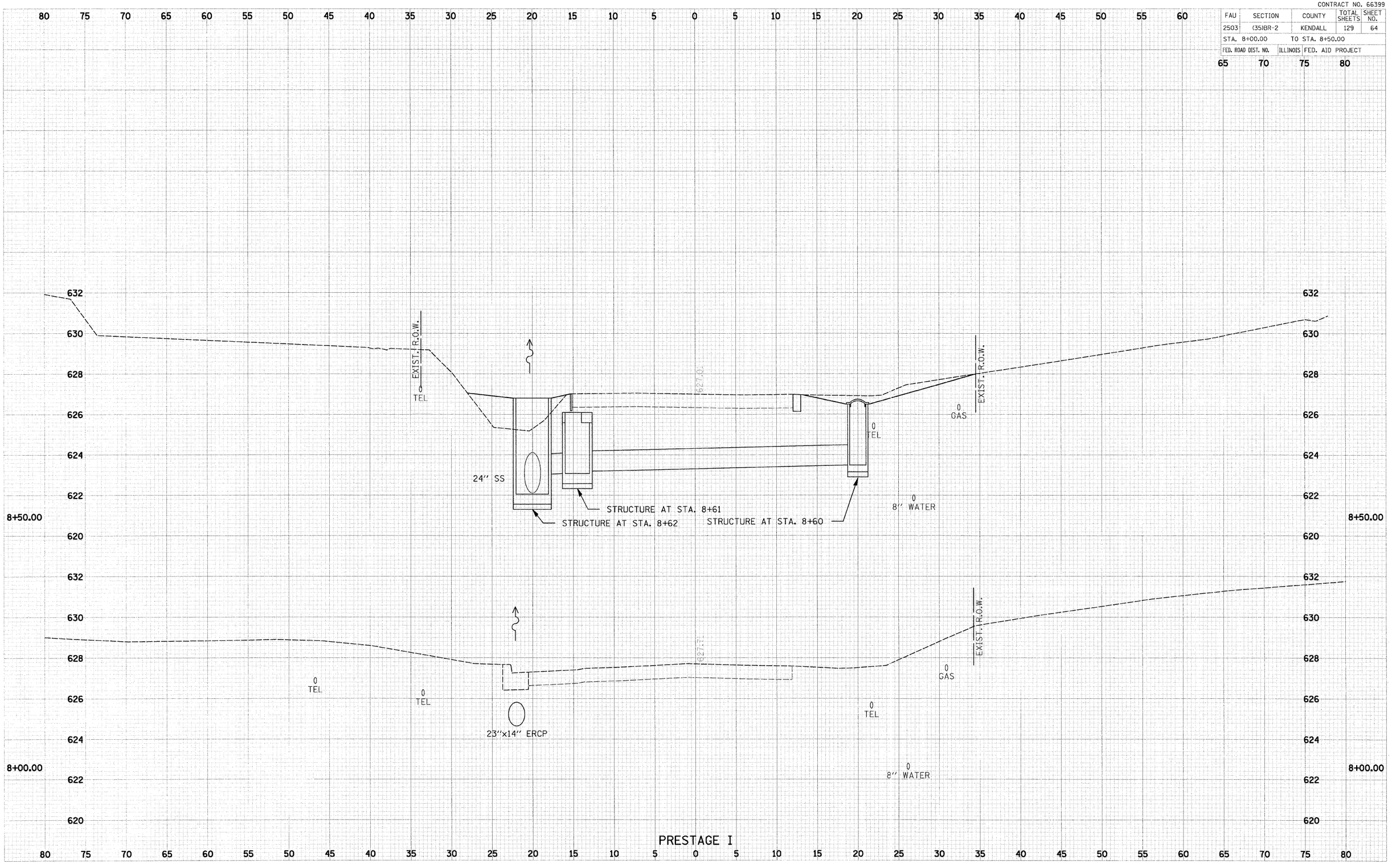

PRESTAGE I

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CONTRACT NO. 66399

FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2503	(35)BR-2	KENDALL	129	65
STA. 8+75.82		TO STA. 9+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT