

INDEX OF SHEETS

1	COVER SHEET, INDEX OF SHEET, LOCATION MAP
2	SUMMARY OF QUANTITIES
3-4	SCHEDULE OF QUANTITIES
5	TYPICAL SECTIONS
6	PAVEMENT DESIGN, ENTRANCE DETAILS, AND HORIZONTAL & VERTICAL CONTROL
7	TRAFFIC CONTROL PLAN
8-10	PLAN AND PROFILE
11-13	STORM WATER POLLUTION PREVENTION AND STRIPING PLAN
	BRIDGE DRAWINGS
14	GENERAL PLAN AND ELEVATION
15	RIPRAP AND PILE LAYOUT
16-19	TOP OF SLAB & BRIDGE APPROACH SLAB ELEVATIONS
20	FRAMING PLAN
21	SUPERSTRUCTURE
22	SUPERSTRUCTURE DETAILS
23	DIAPHRAGM DETAILS
24	BRIDGE APPROACH SLAB DETAILS
25-26	63" PPC BULB T-BEAM
27	WEST ABUTMENT DETAILS
28	EAST ABUTMENT DETAILS
29	HP PILE DETAILS
30	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
31	BORING LOGS
32-38	CROSS SECTIONS
39	INLET BOX, SPECIAL AND STRIPING DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR
PROPOSED LOCAL AGENCY IMPROVEMENT
FEDERAL-AID HBP PROJECT
HIGHWAY BRIDGE PROGRAM

F.A.S. 1365
SECTION 10-00650-00-BR
COUNTY HIGHWAY 33 OVER TOMAHAWK CREEK
LASALLE COUNTY

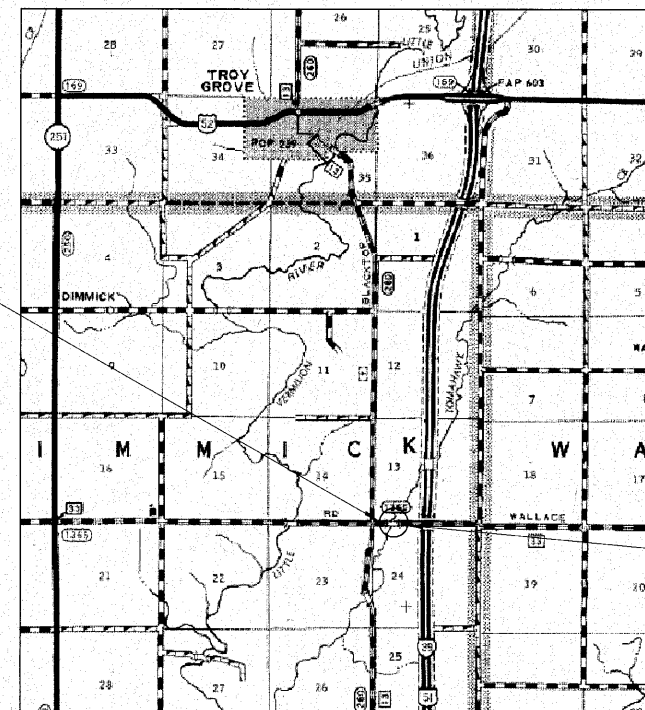
PROJECT NO. BRS-1365(113)
JOB NO. C-93-061-10
CONTRACT NO. 87448

2011

SCALES: PLAN 1" = 20'
PROFILE HORZ. 1" = 20'
PROFILE VERT. 1" = 5'
CROSS SECTIONS 1" = 5'

CO. HIGHWAY 33 = 1,250 FEET = 0.237 MILES

RANGE 1 EAST OF 3RD P.M.



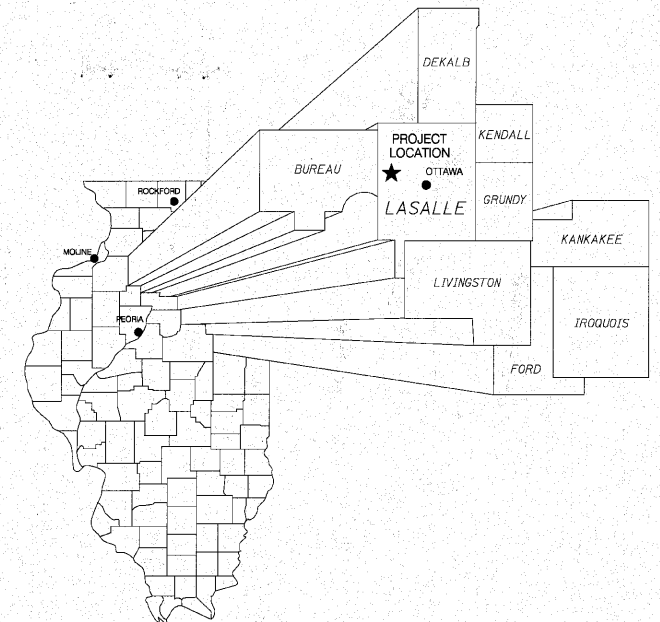
CO. HIGHWAY 33
SECTION BEGINS
STA 12+00.00



CO. HIGHWAY 33
SECTION ENDS
STA 24+50.00

LOCATION MAP

STATE LOCATION MAP



STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
420401-08	BRIDGE APPROACH PAVEMENT CONNECTOR
515001-03	NAME PLATE FOR BRIDGES
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
630001-09	STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-09	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
666001-01	RIGHT OF WAY MARKERS
667101-01	PERMANENT SURVEY MARKERS
701201-04	LANE CLOSURE, 2L 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-04	LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS
701901-01	TRAFFIC CONTROL DEVICES
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-02	TYPICAL PAVEMENT MARKINGS
B.L.R. 17-4	TRAFFIC CONTROL DEVICES - DAY LABOR CONSTRUCTION
B.L.R. 22-6	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO-LANE TWO WAY RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC)

DESIGN CRITERIA:

DESIGN SPEED: 50 MPH - COUNTY HIGHWAY 33			
FUNCTIONAL CLASSIFICATION	HIGHWAY	ADT (2021)	TRUCKS (12%)
MAJOR COLLECTOR (RURAL)	FAS RTE. 1365	950	114



APPROVED Oct. 27, 2010
James Q. Kujawa
LASALLE COUNTY ENGINEER

PASSED 11-8 2010
Gregory D.
DISTRICT 3 PROJECT IMPLEMENTATION ENGINEER

RELEASING FOR BID BASED 11-8 2010
ON LIMITED REVIEW
George F. Gunn
DEPUTY DIRECTOR OF HIGHWAYS, REGION 3 ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DATE: 10/26/2010
EXPIRES 11/30/2011



Land Surveying - Transportation - Structural
Environmental - Architecture
809 East Second Street Dixon, Illinois 61021
Phone 815.284.3381 Fax 815.284.3385
Design Firm #184-000918
www.willetthofmann.com

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE 0011

ITEM NO.	CODE NO.	ITEM	UNIT	QUANTITY
1	20201200*	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	200
2	20300100	CHANNEL EXCAVATION	CU YD	1,533
3	20400800	FURNISHED EXCAVATION	CU YD	1,207
4	20800150	TRENCH BACKFILL	CU YD	16
5	21400100*	GRADING AND SHAPING DITCHES	FOOT	50
6	25000350*	SEEDING, CLASS 7	ACRE	1.27
7	25100630	EROSION CONTROL BLANKET	SQ YD	6,009
8	28000305*	TEMPORARY DITCH CHECKS	FOOT	50
9	28000400	PERIMETER EROSION BARRIER	FOOT	670
10	28000500	INLET AND PIPE PROTECTION	EACH	2
11	28200200	FILTER FABRIC	SQ YD	1,554
12	28300400	AGGREGATE DITCH	TON	1,062
13	31100100*	SUBBASE GRANULAR MATERIAL, TYPE A	TON	2,008
14	35100100*	AGGREGATE BASE COURSE, TYPE A	TON	98
15	40600100*	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	1,389
16	40600300*	AGGREGATE (PRIME COAT)	TON	2.7
17	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	1,066
18	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	247
19	42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	68.4
20	48100100	AGGREGATE SHOULDERS, TYPE A	TON	484
21	50100100*	REMOVAL OF EXISTING STRUCTURES	EACH	1
22	50200100	STRUCTURE EXCAVATION	CU YD	616
23	50300100	FLOOR DRAINS	EACH	10
24	50300225	CONCRETE STRUCTURES	CU YD	71.9
25	50300255	CONCRETE SUPERSTRUCTURE	CU YD	286.9
26	50300260	BRIDGE DECK GROOVING	SQ YD	549
27	50300280	CONCRETE ENCASEMENT	CU YD	4.2
28	50300300	PROTECTIVE COAT	SQ YD	671
29	50400735	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BULB T-BEAMS 63"	FOOT	504.0
30	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	62,500
31	50800515	BAR SPLICERS	EACH	68
32	51201610	FURNISHING STEEL PILES HP 12X63	FOOT	130
33	51202305	DRIVING PILES	FOOT	130
34	51203610	TEST PILE STEEL HP 12X63	EACH	2
35	51500100	NAME PLATES	EACH	1
36	54200223*	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	102
37	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	130
38	60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	4
39 Δ	63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	250
40 Δ	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4

ITEM NO.	CODE NO.	ITEM	UNIT	QUANTITY
41 Δ	63100167*	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
42	63200310	GUARDRAIL REMOVAL	FOOT	1,039
43	66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	10
44	66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	1
45	67100100	MOBILIZATION	L SUM	1
46	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	224
47	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	112
48 Δ	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	4,950
49 Δ	78200410*	GUARDRAIL MARKERS, TYPE A	EACH	10
50 Δ	78200420*	GUARDRAIL MARKERS, TYPE B	EACH	8
51 Δ	78201000*	TERMINAL MARKER - DIRECT APPLIED	EACH	4
52	X2020410*	EARTH EXCAVATION (SPECIAL)	CU YD	2,606
53	X2070304*	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	264
54	X2501000*	SEEDING, CLASS 2 (SPECIAL)	ACRE	1.27
55	X2810210*	STONE RIPRAP, CLASS A5 (SPECIAL)	TON	2,230
56	X7010216*	TRAFFIC CONTROL AND PROTECTION, SPECIAL	L SUM	1
57	Z0001900*	ASBESTOS BEARING PAD REMOVAL	EACH	22
58	Z0013798*	CONSTRUCTION LAYOUT	L SUM	1
59	Z0022800*	FENCE REMOVAL	FOOT	1,411
60	Z0046304*	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	208
61	X2008455	INLET BOX, SPECIAL	EACH	1

*INDICATES SPECIAL PROVISION OR DETAIL

Δ SPECIALTY ITEMS

DATE	BY
REVISION	PLANNED
ALIGNMENT	CHECKED
NOTED	FILED
NO. 1	NO. 1

DATE	BY
REVISION	PLANNED
GRADES	CHECKED
NOTED	FILED
NO. 1	NO. 1

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 Design Firm # 184-00918
 www.willettthofmann.com

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

LASALLE COUNTY
COUNTY HIGHWAY 33
TOMAHAWK BRIDGE REPLACEMENT

SUMMARY OF QUANTITIES

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1365	10-00650-00-BR	LASALLE	39	2
CONTRACT NO. 87448			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT NO. BRS-1365(113)	

DATE: _____
 PLAN: _____
 REVISIONS: _____
 NO. _____

DATE: _____
 PLAN: _____
 REVISIONS: _____
 NO. _____

LOCATION	EARTH EXCAVATION (SPECIAL) X2020410*	EARTH EXCAVATION ADJUSTED FOR 25% SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) FURNISHED EXC. 20400800
COUNTY HIGHWAY 33 STA. 12+00 TO STA. 24+50	2,606	1,955	3,162	-1,207

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL		
STATION	CU YD	REMARKS
COUNTY HIGHWAY 33 CONTINGENCY ITEM	200	AS DIRECTED BY THE ENGINEER
PROJECT TOTAL	200	

TRENCH BACKFILL		
STATION	CU YD	REMARKS
COUNTY HIGHWAY 33 12+04.5	8	18" CMP (REMOVAL)
LT 13+00 TO RT 13+24.5	8	18" PIPE CULVERT ACROSS ROAD
PROJECT TOTAL	16	

GRADING AND SHAPING DITCHES		
STATION	FOOT	REMARKS
COUNTY HIGHWAY 33 NE COR. INT. HIGHWAY 13 & 33	50	DRAIN TO INLET LT 13+00
PROJECT TOTAL	50	

SEEDING, CLASS 7		
STATION	ACRE	REMARKS
COUNTY HIGHWAY 33 LT 12+05	0.01	ALONG DITCH
COUNTY HIGHWAY 33 LT 12+00 TO 24+50	0.61	
RT 12+00 TO 24+50	0.65	
PROJECT TOTAL	1.27	

SEEDING, CLASS 2 (SPECIAL)		
STATION	ACRE	REMARKS
COUNTY HIGHWAY 33 LT 12+05	0.01	ALONG DITCH
COUNTY HIGHWAY 33 LT 12+00 TO 24+50	0.61	
RT 12+00 TO 24+50	0.65	
PROJECT TOTAL	1.27	

EROSION CONTROL BLANKET		
STATION	SQ YD	REMARKS
COUNTY HIGHWAY 33 LT 12+05	44	
COUNTY HIGHWAY 33 LT 12+00 TO 13+44	307	
RT 12+00 TO 19+28.37	2,075	
LT 13+59 TO 19+48.67	1,698	
RT 20+51.33 TO 22+15	595	
LT 20+71.63 TO 24+50	912	
RT 22+35 TO 24+50	378	
PROJECT TOTAL	6,009	

TEMPORARY DITCH CHECKS		
STATION	FOOT	REMARKS
COUNTY HIGHWAY 33 60' LT 12+05	10	
COUNTY HIGHWAY 33 LT 12+50	10	
RT 13+00	10	
LT 14+25	10	
LT 15+25	10	
PROJECT TOTAL	50	

PERIMETER EROSION BARRIER		
STATION	FOOT	REMARKS
COUNTY HIGHWAY 33 RT 17+80 TO 19+35	155	
LT 18+00 TO 19+50	150	
RT 20+40 TO 22+00	160	
LT 20+75 TO 22+80	205	
PROJECT TOTAL	670	

INLET AND PIPE PROTECTION		
STATION	EACH	REMARKS
COUNTY HIGHWAY 33 LT 13+00	1	DITCH INLET
RT 22+44	1	18" PIPE CULVERT @ ENTRANCE
PROJECT TOTAL	2	

FILTER FABRIC		
STATION	SQ YD	REMARKS
COUNTY HIGHWAY 33 RT 13+20 TO 19+28.37	543	ALONG AGGREGATE DITCH
LT 15+50 TO 19+48.67	357	ALONG AGGREGATE DITCH
RT 20+51.33 TO 21+97.60	132	ALONG AGGREGATE DITCH
LT 20+71.63 TO 24+50	338	ALONG AGGREGATE DITCH
RT 22+44 TO 24+50	184	ALONG AGGREGATE DITCH
PROJECT TOTAL	1,554	

AGGREGATE DITCH		
STATION	TON	REMARKS
COUNTY HIGHWAY 33 RT 13+20 TO 19+28.37	371	CLASS A-4 - 12"
LT 15+50 TO 19+48.67	244	CLASS A-4 - 12"
RT 20+51.33 TO 21+97.60	90	CLASS A-4 - 12"
LT 20+71.63 TO 24+50	231	CLASS A-4 - 12"
RT 22+44 TO 24+50	126	CLASS A-4 - 12"
PROJECT TOTAL	1,062	

SUBBASE GRANULAR MATERIAL, TYPE A		
STATION	TON	REMARKS
COUNTY HIGHWAY 33 12+00.00 TO 12+36.66	93	12"
12+36.66 TO 19+10.52	1,243	12"
20+84.48 TO 24+50.00	672	12"
PROJECT TOTAL	2,008	

AGGREGATE BASE COURSE, TYPE A		
STATION	TON	REMARKS
COUNTY HIGHWAY 33 PEL 13+51.00	48	8"
FER 22+25.00	50	10"
PROJECT TOTAL	98	

BITUMINOUS MATERIALS (PRIME COAT)		
STATION	GALLON	REMARKS
COUNTY HIGHWAY 33 PEL 13+51.00	42	1 APPLICATION ON AGG @ 0.4 GAL/SY
12+00.00 TO 12+36.66	64	1 APPL @ 0.4 AND 1 APPL @ 0.1 GAL/SY
12+36.66 TO 19+10.52	833	1 APPL @ 0.4 AND 1 APPL @ 0.1 GAL/SY
20+84.48 TO 24+50.00	450	1 APPL @ 0.4 AND 1 APPL @ 0.1 GAL/SY
PROJECT TOTAL	1,389	

AGGREGATE (PRIME COAT)		
STATION	TON	REMARKS
COUNTY HIGHWAY 33 12+00.00 TO 12+36.66	0.1	2 LBS/SY
12+36.66 TO 19+10.52	1.7	2 LBS/SY
20+84.48 TO 24+50.00	0.9	2 LBS/SY
PROJECT TOTAL	2.7	

HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50			
STATION	TON	REMARKS	
COUNTY HIGHWAY 33 12+00.00 TO 12+36.66	51	7"	115 LB/SY/IN
12+36.66 TO 19+10.52	663	7"	115 LB/SY/IN
20+89.48 TO 24+50.00	352	7"	115 LB/SY/IN
PROJECT TOTAL	1,066		

HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50			
STATION	TON	REMARKS	
COUNTY HIGHWAY 33 12+00.00 TO 12+36.66	11	1 1/2"	115 LB/SY/IN
12+36.66 TO 19+10.52	142	1 1/2"	115 LB/SY/IN
20+89.48 TO 24+50.00	76	1 1/2"	115 LB/SY/IN
PEL 13+51.00	18	3"	115 LB/SY/IN
PROJECT TOTAL	247		

BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)		
STATION	SQ YD	REMARKS
COUNTY HIGHWAY 33 19+10.52 TO 19+18.52	34.2	
20+81.48 TO 20+89.48	34.2	
PROJECT TOTAL	68.4	

AGGREGATE SHOULDERS, TYPE A		
STATION	TON	REMARKS
COUNTY HIGHWAY 33 LT 12+00.00 TO 12+32.30	5	6"
LT 12+32.30 TO 13+35.00	19	6"
LT 13+67.00 TO 18+05.85	83	6"
LT 18+05.85 TO 19+58.67	41	6"
LT 20+61.63 TO 22+88.11	66	6"
LT 22+88.11 TO 24+50.00	29	6"
RT 12+00.00 TO 17+11.89	95	6"
RT 17+11.89 TO 19+38.37	66	6"
RT 20+41.33 TO 22+07.00	43	6"
RT 22+43.00 TO 24+50.00	37	6"
PROJECT TOTAL	484	

PIPE CULVERTS, CLASS D, TYPE 1 18"		
STATION	FOOT	REMARKS
COUNTY HIGHWAY 33 LT 13+00 TO RT 13+24.50	54	PRECAST GALVANIZED CORRUGATED STEEL (ACROSS ROADWAY)
FER 22+25.00	48	
PROJECT TOTAL	102	

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WILLET, HOFMANN & ASSOCIATES, INC.
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 809 East Second Street Dixon, IL 61021
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USER NAME: _____	DESIGNED: _____	REVISED: _____
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PLCT DATE: _____	CHECKED: _____	REVISED: _____
	DATE: _____	REVISED: _____

LASALLE COUNTY
 COUNTY HIGHWAY 33
 TOMAHAWK BRIDGE REPLACEMENT

SCHEDULE OF QUANTITIES

F.A.S. RTE. 1365	SECTION 10-00650-00-BR	COUNTY LASALLE	TOTAL SHEETS 39	SHEET NO. 3
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 87448	
FED. AID PROJECT NO. BRS-1365(113)				

DATE _____ BY _____
 SURVEYED _____
 PLOTTED _____
 CHECKED _____
 PLAN NO. _____
 NOTE BOOK NO. _____
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DATE _____ BY _____
 SURVEYED _____
 PLOTTED _____
 CHECKED _____
 PROFILE NO. _____
 NOTE BOOK NO. _____
 STRUCTURE NOTATION CHFD _____

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STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FT POSTS		
STATION	FOOT	REMARKS
COUNTY HIGHWAY 33		
LT 18+89.85 TO 19+14.85	25	
LT 21+04.11 TO 22+04.11	100	
RT 17+95.89 TO 18+95.89	100	
RT 20+85.15 TO 21+10.15	25	
PROJECT TOTAL	250	

63000001

TRAFFIC BARRIER TERMINAL, TYPE 6		
STATION	EACH	REMARKS
COUNTY HIGHWAY 33		
LT 19+14.85 TO 19+60.50	1	
LT 20+58.46 TO 21+04.11	1	
RT 18+95.89 TO 19+41.54	1	
RT 20+39.50 TO 20+85.15	1	
PROJECT TOTAL	4	

63100085

TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)		
STATION	EACH	REMARKS
COUNTY HIGHWAY 33		
LT 18+39.85 TO 18+89.85	1	
LT 22+04.11 TO 22+54.11	1	
RT 17+45.89 TO 17+95.89	1	
RT 21+10.15 TO 21+60.15	1	
PROJECT TOTAL	4	

63100167*

GUARDRAIL REMOVAL		
STATION	FOOT	REMARKS
COUNTY HIGHWAY 33		
LT 17+05 TO 22+42	537	
RT 16+95 TO 21+97	502	
PROJECT TOTAL	1,039	

63200310

FENCE REMOVAL		
STATION	FOOT	REMARKS
COUNTY HIGHWAY 33		
LT 14+50.00 TO 19+87.00	538	BARBED WIRE FENCE
RT 14+71.62 TO 19+52.00	480	BARBED WIRE FENCE
RT 20+07.00 TO 22+10.92	205	BARBED WIRE FENCE
LT 20+71.00 TO 22+58.26	188	BARBED WIRE FENCE
PROJECT TOTAL	1,411	

Z0022800*

FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS		
STATION	EACH	REMARKS
COUNTY HIGHWAY 33		
LT 12+15.65	1	
LT 16+79.97	1	
RT 16+80.27	1	
LT 18+79.72	1	
RT 18+96.22	1	
LT & RT 21+00.00	2	
RT 22+00.00	1	
LT 22+79.88	1	
RT 22+80.34	1	
PROJECT TOTAL	10	

66600105

PERMANENT SURVEY MARKERS, TYPE I		
STATION	EACH	REMARKS
COUNTY HIGHWAY 33		
	1	WINGWALL - AS DIRECTED BY ENGINEER
PROJECT TOTAL	1	

66700205

SHORT-TERM PAVEMENT MARKING		
STATION	FOOT	REMARKS
COUNTY HIGHWAY 33		
12+30.30 TO 24+50.00	224	YELLOW - CENTERLINE 2 APPLICATIONS - 4'-36' SKIP DASH
PROJECT TOTAL	224	

70300100

WORK ZONE PAVEMENT MARKING REMOVAL		
STATION	SQ FT	REMARKS
COUNTY HIGHWAY 33		
12+30.30 TO 24+50.00	112	AS DIRECTED BY THE ENGINEER
PROJECT TOTAL	112	

70301000

PAINT PAVEMENT MARKING - LINE 4"		
STATION	FOOT	REMARKS
COUNTY HIGHWAY 33		
LT & RT 12+30.30 TO 24+50.00	2,440	NPZ - 2 LINES AT CENTERLINE (YEL)
LT & RT 12+00.00 TO 24+50.00	2,510	EDGE LINES (WHT)
PROJECT TOTAL	4,950	

78001110

GUARDRAIL MARKERS, TYPE A		
STATION	EACH	REMARKS
COUNTY HIGHWAY 33		
LT 18+89.85 TO 19+58.67	2	
LT 20+61.63 TO 22+04.11	3	
RT 17+95.89 TO 19+38.37	3	
RT 20+41.33 TO 21+10.15	2	
PROJECT TOTAL	10	

78200410*

GUARDRAIL MARKERS, TYPE B		
STATION	EACH	REMARKS
COUNTY HIGHWAY 33		
RT 19+38.37 TO 20+41.33	4	
LT 19+58.67 TO 20+61.63	4	
PROJECT TOTAL	8	

78200420*

TERMINAL MARKERS - DIRECT APPLIED		
STATION	EACH	REMARKS
COUNTY HIGHWAY 33		
LT 18+39.85	1	
LT 22+54.11	1	
RT 17+45.89	1	
RT 21+60.15	1	
PROJECT TOTAL	4	

78201000*

INLET BOX, SPECIAL		
STATION	EACH	REMARKS
COUNTY HIGHWAY 33		
LT 13+00	1	WHA STANDARD 639
PROJECT TOTAL	1	

XX008455



USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -
	DATE -	REVISED -

LASALLE COUNTY
COUNTY HIGHWAY 33
TOMAHAWK BRIDGE REPLACEMENT

SCHEDULE OF QUANTITIES

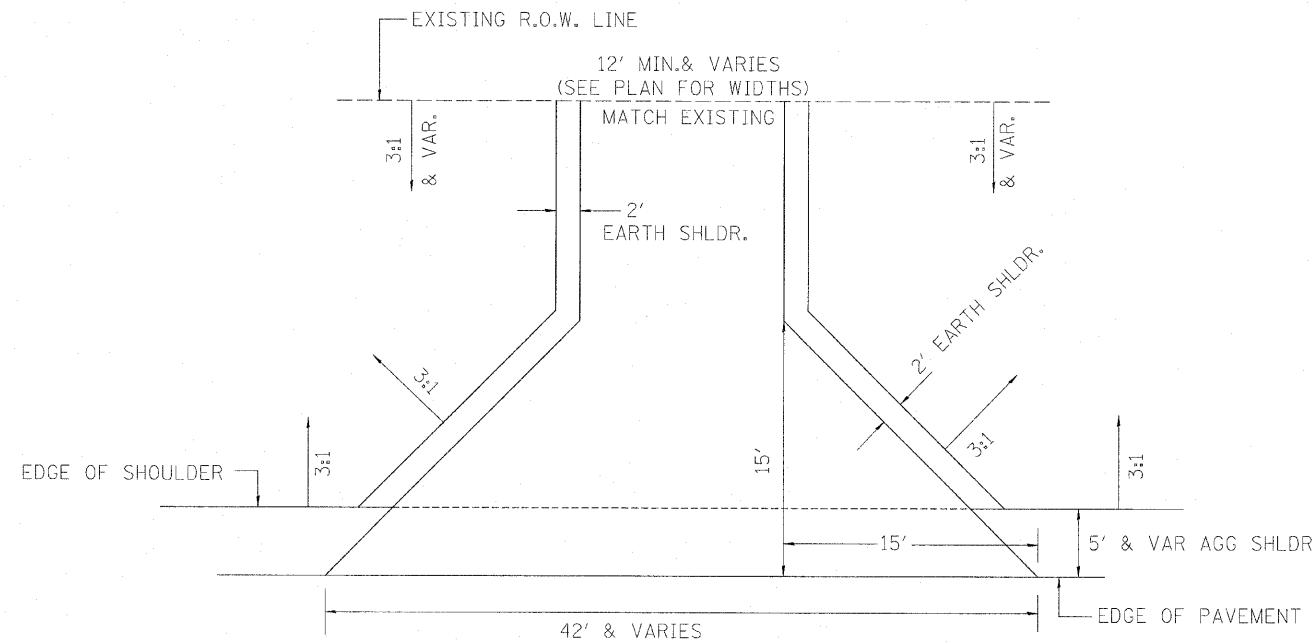
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1365	10-00650-00-BR	LASALLE	39	4
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT NO. BRS-1365(113)			CONTRACT NO. 87448	

HORIZONTAL CONTROL

LASALLE COUNTY - COUNTY HIGHWAY 33 TOMAHAWK BRIDGE REPLACEMENT						
PT #	STA.	OFFSET	N	E	ELEV.	DESCRIPTION
101 - GPS CONTROL PT.	19+27.02	22.48' RT.	1729056.276	783422.321	617.78	
102 - GPS CONTROL PT.	20+76.68	16.69' LT.	1729097.10	783571.54	618.03	
702 - SECTION CORNER	11+80.14	0.00'	1729070.52	782675.24	639.18	PK NAIL
713 - SECTION CORNER	38+49.81	0.00'	1729099.97	785344.75	656.95	RR SPIKE

BENCHMARKS

LASALLE COUNTY - COUNTY HIGHWAY 33 TOMAHAWK BRIDGE REPLACEMENT			
BM #	LOCATION	DESCRIPTION	ELEV.
1	N.E. COR. CO. HWY 33 & CO. HWY 13	TOP OF C.P. 100 (PK NAIL)	639.11
2	48.98' RT. STA. 17+67.09	RR SPIKE IN UTILITY POLE	622.91
2	S.W. COR. OF BRIDGE	CHIS. "Δ" ON TOP OF HUB GUARD	620.55
2	45.01' RT. STA. 22+10.73	RR SPIKE IN CORNER FENCE POST	620.64



CONSTRUCT PRIVATE ENTRANCES WITH 8" AGGREGATE BASE COURSE, TYPE A (CA-6) AND 3" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (SAME FOR MAILBOX TURNOUT)

CONSTRUCT FIELD ENTRANCES WITH 10" AGGREGATE BASE COURSE, TYPE A (CA-6).

TYPICAL ENTRANCE (PRIVATE OR FIELD)

COUNTY HIGHWAY 33 PAVEMENT STRUCTURAL DESIGN

80,000 LB. DESIGN

STRUCTURAL DESIGN TRAFFIC (S.D.T.) = YEAR 2021 P.V. 836
S.U. 76 } 950 ADT

SECTION PER LASALLE COUNTY HIGHWAY DEPARTMENT

USE:

1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
7" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50
12" SUBBASE GRANULAR MATERIAL, TYPE A

PAVEMENT MIXTURE REQUIREMENTS

LOCATION:	CO. HIGHWAY 33	
MIXTURE USE:	BINDER	SURFACE
PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0 @ N50	4.0 @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 19.0	IL 9.5
FRICTION AGGREGATE	N/A	C
MIXTURE WEIGHT:	115 LBS/SY*IN	112 LBS/SY*IN
BITUMINOUS MATERIALS (PRIME COAT)	0.40 GAL./SY (ON AGGREGATE)	0.10 GAL./SY (ON BINDER)
AGGREGATE (PRIME COAT)		2 LBS./SY (ON BINDER)

PLAN	DATE
NO.	
BY	
CHECKED	
DATE	

PROFILE	DATE
NO.	
BY	
CHECKED	
DATE	

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DATE	CHECKED	REVISED
	DATE	REVISED

LASALLE COUNTY
COUNTY HIGHWAY 33
TOMAHAWK BRIDGE REPLACEMENT

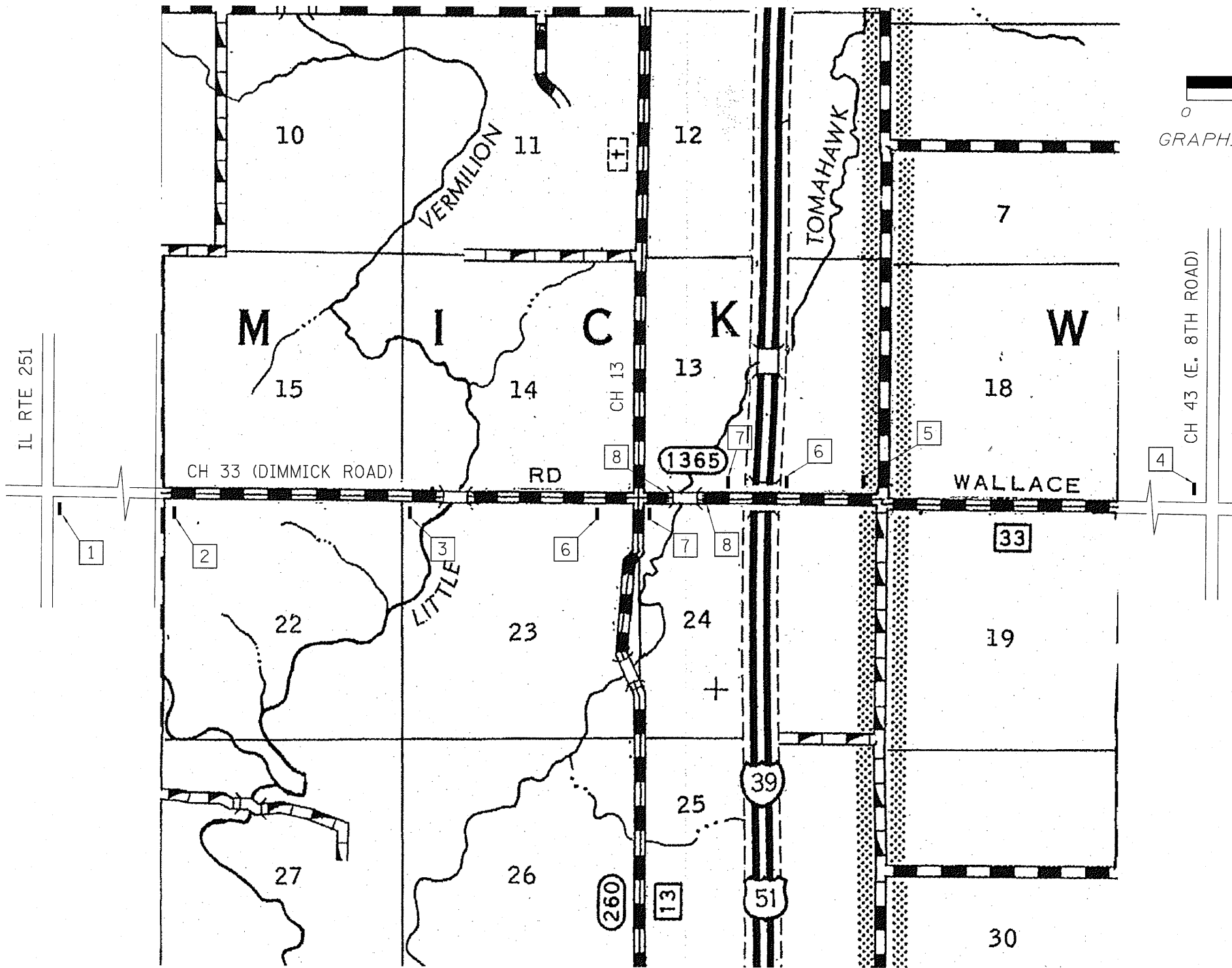
PAVEMENT DESIGN, ENTRANCE DETAILS & HORIZONTAL AND VERTICAL CONTROL

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1385	10-00650-00-BR	LASALLE	39	6
STA.	TO STA.	CONTRACT NO. 87448		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-1365(13)		

PLAN	SURVEYED	DATE
	PLOTTED	
	NOTE BOOK	
	NO. OF WAY CHECKED	
	PAID FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	NOTE BOOK	
	NO. OF WAY CHECKED	
	STRUCTURE NOTATIONS	

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- 1 ROAD CLOSED
3 1/4 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
- 2 ROAD CLOSED
2 1/4 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
- 3 ROAD CLOSED
1 1/4 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
- 4 ROAD CLOSED
2 3/4 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
- 5 ROAD CLOSED
3/4 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
- 6 ROAD CLOSED
500 FT
W20-3
- 7 ROAD CLOSED
W20-3
- 8 TYPE III BARRICADES

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	DATE -	REVISED -

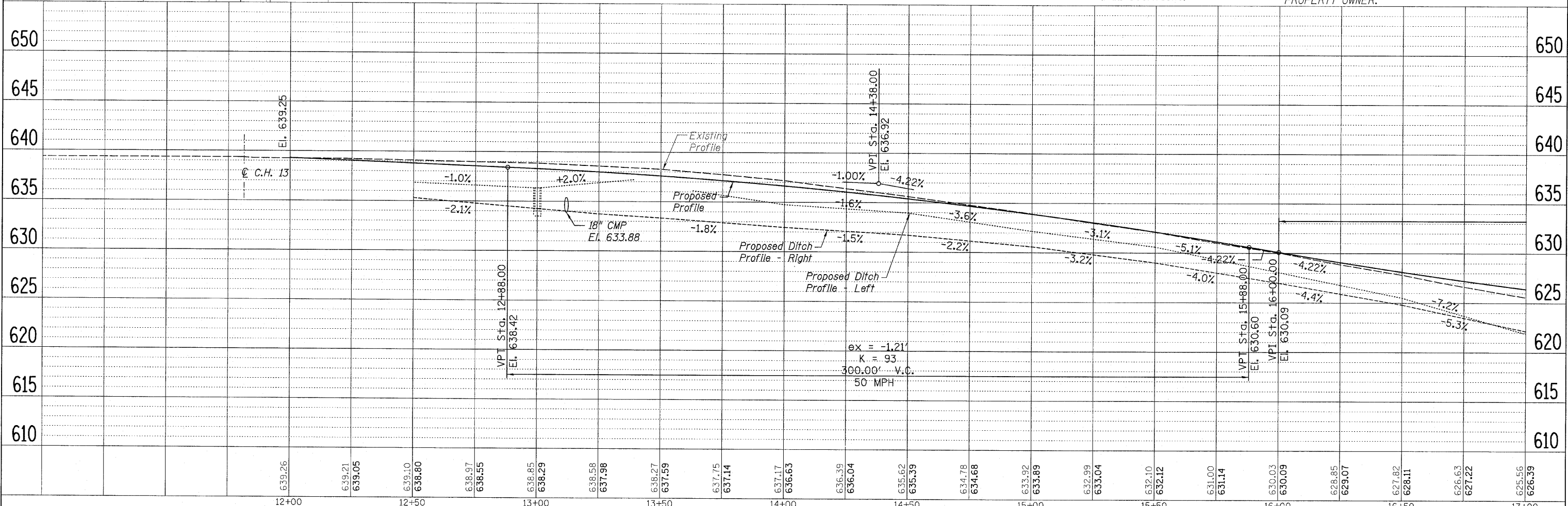
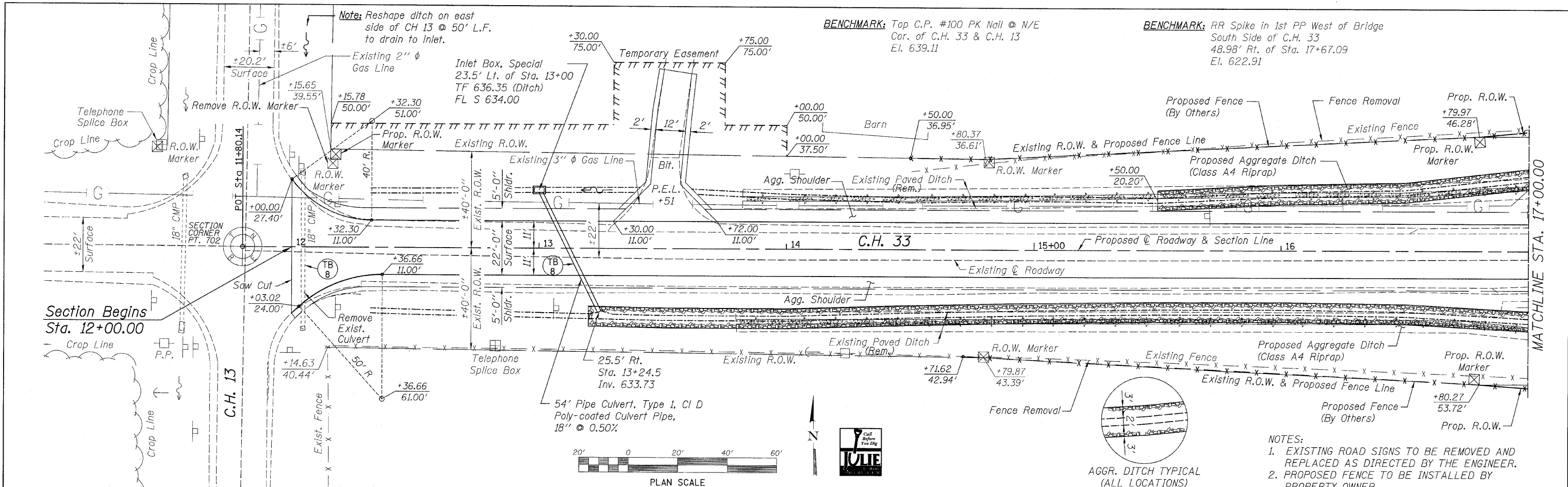
LASALLE COUNTY
COUNTY HIGHWAY 33
TOMAHAWK BRIDGE REPLACEMENT

TRAFFIC CONTROL PLAN

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1365	10-00650-00-BR	LASALLE	39	7
STA.	TO STA.	CONTRACT NO. 87448		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-1365(13)		

DATE	
BY	
PLAN	SURVEYED
	PLOTTED
	CHECKED
	DATE
	NO.
	NO.
	NO.

DATE	
BY	
PROFILE	SURVEYED
	PLOTTED
	CHECKED
	DATE
	NO.
	NO.
	NO.



639.26	639.21	639.05	639.10	638.80	638.37	638.55	638.85	638.29	638.58	637.98	638.27	637.59	637.75	637.14	637.17	636.63	636.39	636.04	635.62	635.39	634.78	634.68	633.92	633.89	632.99	633.04	632.10	632.12	631.00	631.14	630.03	630.09	628.85	629.07	627.82	628.11	626.63	627.22	625.56	626.39		
12+00		12+50		13+00		13+50		14+00		14+50		15+00		15+50		16+00		16+50		17+00																						

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	DATE -	REVISED -

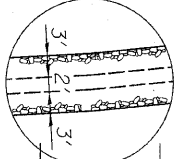
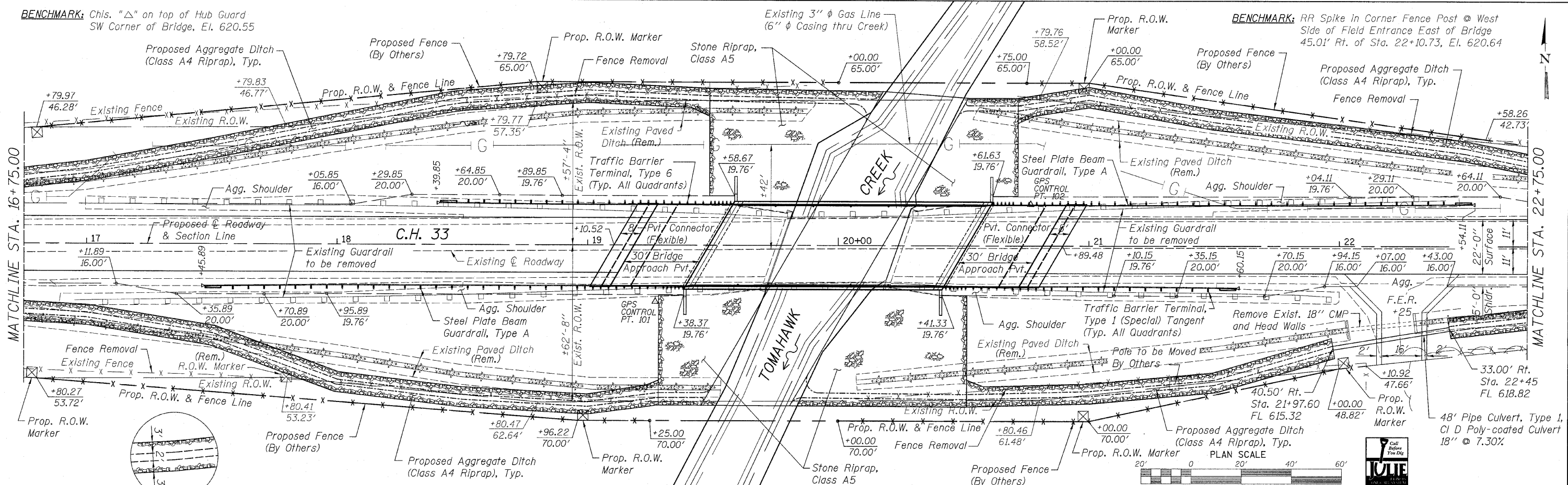
LASALLE COUNTY
COUNTY HIGHWAY 33
TOMAHAWK BRIDGE REPLACEMENT

COUNTY HIGHWAY 33 - PLAN & PROFILE

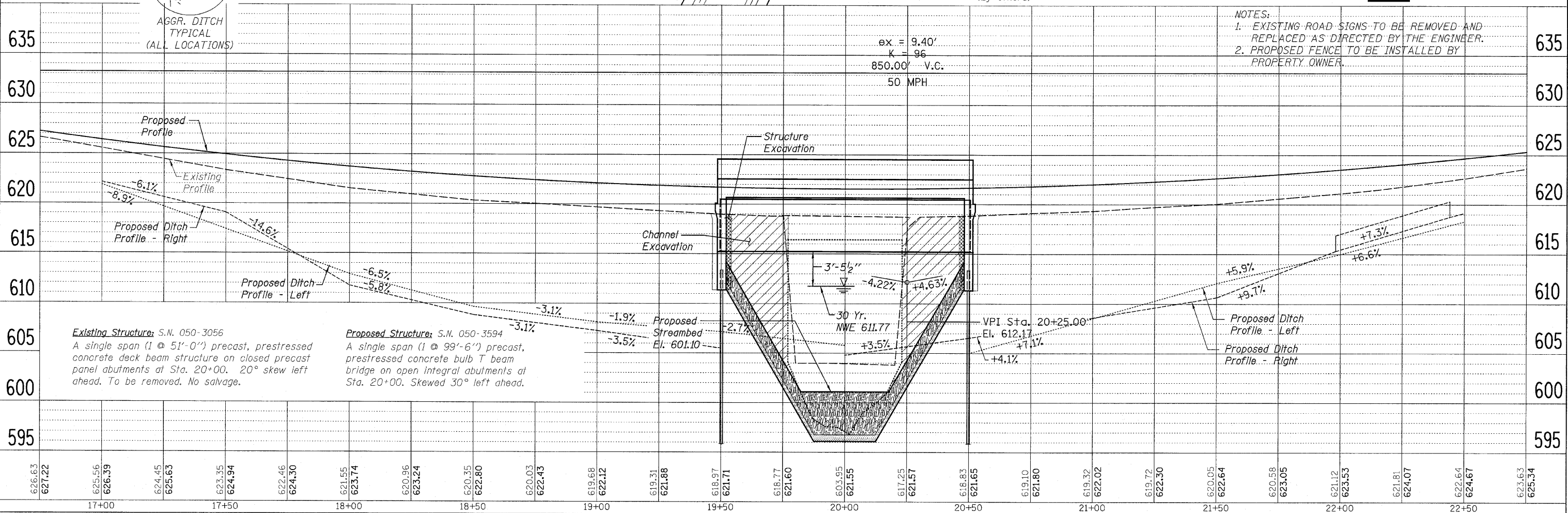
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1365	10-00650-00-BR	LASALLE	39	8
STA. 12+00.00 TO STA. 17+00.00		CONTRACT NO. 87448		
FED. ROAD DIST. NO. 7 (ILLINOIS) FED. AID PROJECT BRS-1365(113)				

BENCHMARK: Chis. "Δ" on top of Hub Guard SW Corner of Bridge, El. 620.55

BENCHMARK: RR Spike in Corner Fence Post @ West Side of Field Entrance East of Bridge 45.01' Rt. of Sta. 22+10.73, El. 620.64



- NOTES:**
- EXISTING ROAD SIGNS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER.
 - PROPOSED FENCE TO BE INSTALLED BY PROPERTY OWNER.



Existing Structure: S.N. 050-3056
A single span (1 @ 51'-0") precast, prestressed concrete deck beam structure on closed precast panel abutments at Sta. 20+00. 20° skew left ahead. To be removed. No salvage.

Proposed Structure: S.N. 050-3594
A single span (1 @ 99'-6") precast, prestressed concrete bulb T beam bridge on open integral abutments at Sta. 20+00. Skewed 30° left ahead.

626.63	627.22	625.56	626.39	624.45	625.63	623.35	624.94	622.46	624.30	621.55	623.74	620.96	623.24	620.35	622.80	620.03	622.43	619.68	622.12	619.31	621.88	618.97	621.71	618.77	621.60	603.95	621.55	617.25	621.57	618.83	621.65	619.10	621.80	619.32	622.02	619.72	622.30	620.05	622.64	620.58	623.05	621.12	623.53	621.81	624.07	622.64	624.67	623.63	625.34
17+00		17+50		18+00		18+50		19+00		19+50		20+00		20+50		21+00		21+50		22+00		22+50																											

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LASALLE COUNTY
COUNTY HIGHWAY 33
TOMAHAWK BRIDGE REPLACEMENT

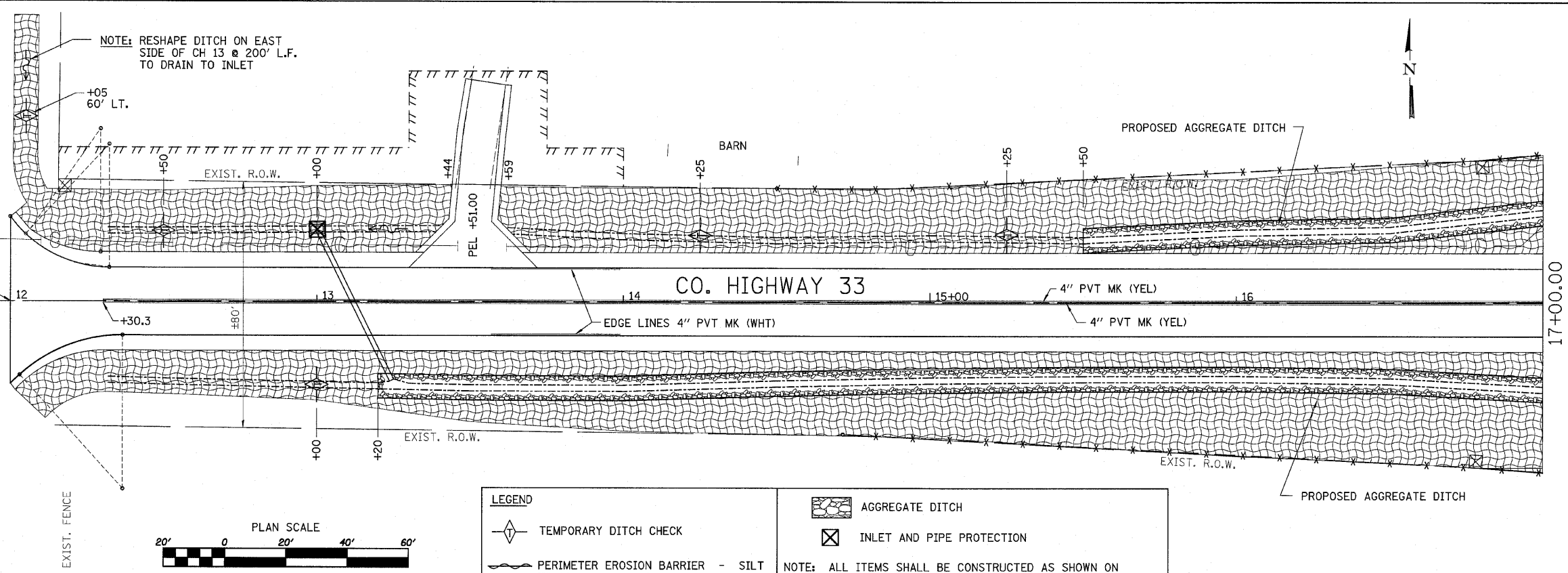
COUNTY HIGHWAY 33 - PLAN & PROFILE

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1365	10-00650-00-BR	LASALLE	39	9
STA. 16+75.00 TO STA. 22+75.00		CONTRACT NO. 87448		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-1365(113)				

PLAN	SURVEYED	DATE
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	NO. OF WAYS CHECKED	
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	NO.	

CONSTRUCTION BEGINS STA. 12+00.00

CO. HIGHWAY 13

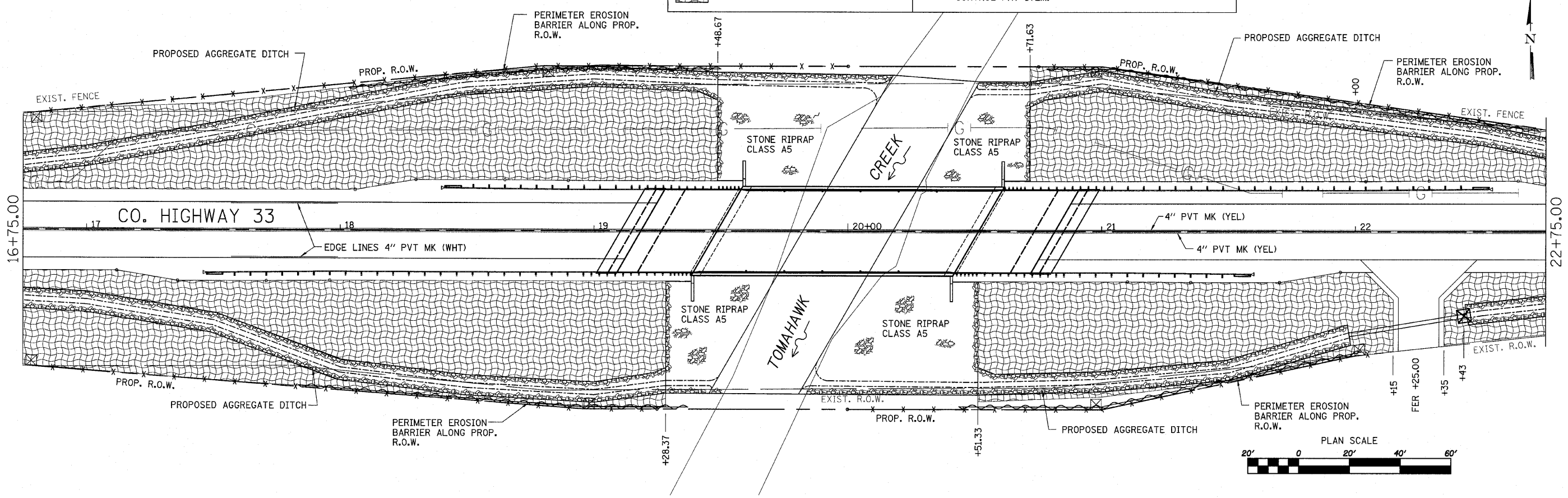


LEGEND

- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER - SILT FILTER FENCE OR OTHER AS APPROVED BY THE ENGINEER
- EROSION CONTROL BLANKET
- AGGREGATE DITCH
- INLET AND PIPE PROTECTION

NOTE: ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD 280001 AND AS DIRECTED BY THE ENGINEER. MAINTENANCE AND CLEANING OF THE EROSION CONTROL ITEMS SHALL BE INCLUDED IN THE RESPECTIVE EROSION CONTROL PAY ITEM.

PROFILE	SURVEYED	DATE
	PLOTTED	
	NOTED	
	BY	
	CHECKED	
	NO. OF WAYS CHECKED	
	PAID FILE NAME	
	NO.	



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PLLOT DATE =	CHECKED -	REVISED -
	DATE -	REVISED -

LASALLE COUNTY
COUNTY HIGHWAY 33
TOMAHAWK BRIDGE REPLACEMENT

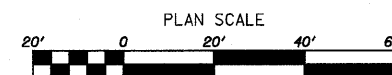
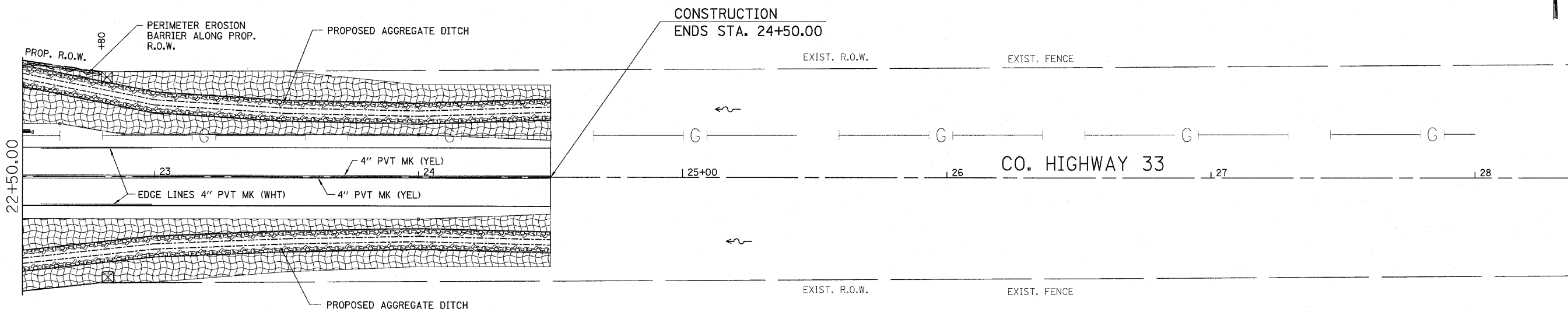
STORM WATER POLLUTION PREVENTION AND STRIPING PLAN

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1365	10-00650-00-BR	LASALLE	39	11
STA. 12+05.00 TO STA. 17+00.00		CONTRACT NO. 87448		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BR5-1365(13)		

PLAN	SURVEYED	BY	DATE
	ALIGNED		
	CHECKED		
	RT. OF WAY		
	CHECKED		
	PAID FILE		
	NO.		

PROFILE	SURVEYED	BY	DATE
	ALIGNED		
	CHECKED		
	RT. OF WAY		
	CHECKED		
	PAID FILE		
	NO.		

BENCHMARK:
RR SPIKE IN CORNER FENCE POST @ WEST
SIDE OF FIELD ENTRANCE EAST OF BRIDGE
45.01' RT. OF STA. 22+10.73, EL. 620.64



LEGEND	
	TEMPORARY DITCH CHECK
	PERIMETER EROSION BARRIER - SILT FILTER FENCE OR OTHER AS APPROVED BY THE ENGINEER
	EROSION CONTROL BLANKET
	AGGREGATE DITCH
	INLET AND PIPE PROTECTION

NOTE: ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD 280001 AND AS DIRECTED BY THE ENGINEER. MAINTENANCE AND CLEANING OF THE EROSION CONTROL ITEMS SHALL BE INCLUDED IN THE RESPECTIVE EROSION CONTROL PAY ITEM.

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PLOT DATE =	DATE -	REVISED -

LASALLE COUNTY
COUNTY HIGHWAY 33
TOMAHAWK BRIDGE REPLACEMENT

**STORM WATER POLLUTION PREVENTION
AND STRIPING PLAN**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1365	10-00650-00-BR	LASALLE	39	12
STA. 16+75.00 TO STA. 22+75.00		CONTRACT NO. 87448		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-1365(13)		

STORM WATER POLLUTION PREVENTION PLAN EROSION CONTROL PLAN

THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE SILTATION WITHIN THE CONSTRUCTION ZONE AND TO ELIMINATE SEDIMENTS FROM ENTERING AND LEAVING THE CONSTRUCTION ZONE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN ITEMS, AS SHOWN IN THIS PLAN AND REFERENCED BY THE LEGEND, SHALL BE PLACED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION RESULTING FROM THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL PLACE PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A REASONABLE AMOUNT OF TIME: THEREFORE, REDUCING THE AMOUNT OF AREA BEING OPEN TO THE POSSIBILITY OF EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE RESIDENT ENGINEER WILL DETERMINE IF TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED, THE SIZE OF THE PROPOSED DITCH CHECKS, THE PROPER METHOD OF INSTALLATION, AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS SHALL BE ADDED WHICH ARE NOT INCLUDED IN THE PLANS. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

THIS PROJECT CONSISTS OF REMOVAL & REPLACEMENT OF PAVEMENTS AND REALIGNMENT OF CENTERLINE, EARTH EXCAVATION, DRIVEWAYS, PIPE CULVERTS, VARIOUS PAVEMENT ITEMS AND OTHER MISCELLANEOUS ITEMS OF CONSTRUCTION.

DESCRIPTION OF INTENDED SEQUENCE OF ACTIVITIES:

THE SEQUENCE OF EVENTS ARE AS FOLLOW: CLEARING, EMBANKMENT, EXCAVATION, GRADING AND PAVING. THIS PROJECT WILL BE CONSTRUCTED IN SEGMENTS AS SHOWN IN THE "STAGING PLANS".

TOTAL CONSTRUCTION SITE (CONSTRUCTION LIMIT TO CONSTRUCTION LIMIT) 2.85 ACRES
 PROPOSED R.O.W (TOTAL PARCEL AREA) 0.072 ACRES
 DISTURBED BY EXCAVATION ~~(E.O.P TO CONSTRUCTION LIMIT)~~ 2.85 ACRES

SUPPORTING REPORTS AND PLANS

THE FOLLOWING ASSISTED IN DEVELOPING THE EROSION CONTROL PLAN AS REFERENCED DOCUMENTS:

SOIL PROFILE SHEETS, SOILS REPORTS, BORING LOGS
 USGS DRAINAGE MAPS, PROJECT PLAN DOCUMENTS

DRAINAGE TRIBUTARIES RECEIVING WATER FROM CONSTRUCTION SITE
TOMAHAWK CREEK

EROSION CONTROLS AND SEDIMENT CONTROL PROCEDURES

STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:

PERIMETER EROSION CONTROL SHALL BE PLACED PRIOR TO BEGINNING EARTHWORK.

STABILIZATION PRACTICES DURING CONSTRUCTION:

AS EARTH EXCAVATION AND EMBANKMENT ARE BEING COMPLETED THE CONTRACTOR SHALL PLACE DITCH CHECKS, INLET AND PIPE PROTECTION, EROSION CONTROL BLANKET, AND SEEDING AS STAGES OF THE PROJECT ARE COMPLETED. PERIMETER EROSION BARRIER WILL BE INSTALLED AT ADDITIONAL LOCATIONS AS THE PROJECT PROGRESSES. SEEDING SHALL BE COMPLETED AS SPECIFIED IN THE EROSION CONTROL/SEEDING MOBILIZATION AND TEMPORARY SEEDING SPECIAL PROVISION.

MAINTENANCE AFTER FINAL GRADING

TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED WITH THE PROPER STAND. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP AND DISTURBED TURF RESEDED.

PLAN	SURVEYED	DATE
	PLOTTED	
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	BY	

PROFILE	SURVEYED	DATE
	PLOTTED	
NOTE BOOK NO.	CHECKED	
	BY	

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LASALLE COUNTY
COUNTY HIGHWAY 33
TOMAHAWK BRIDGE REPLACEMENT

**STORM WATER POLLUTION PREVENTION
AND STRIPING PLAN**

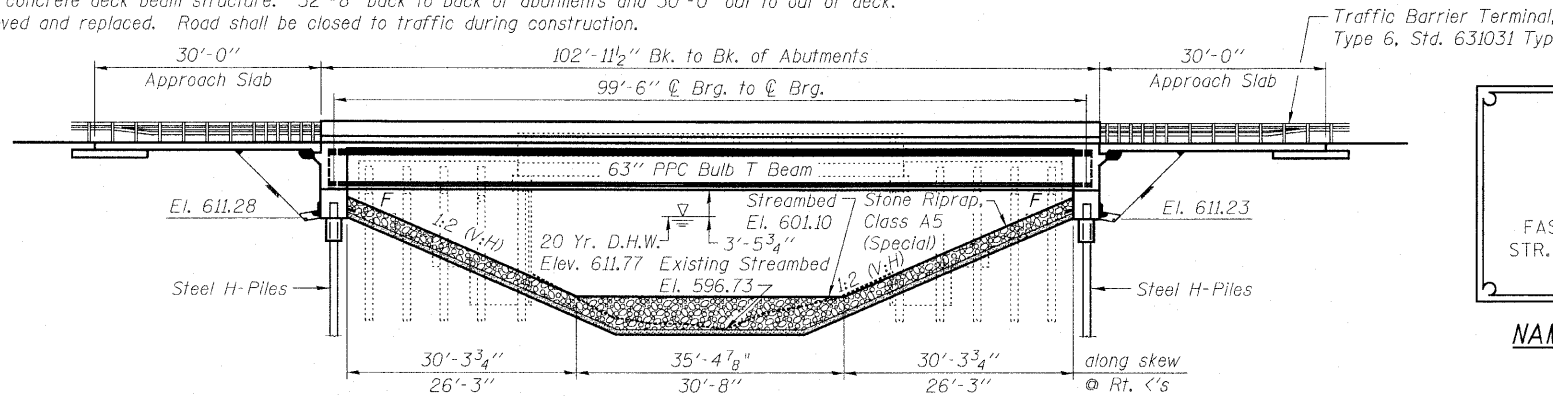
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1365	10-00650-00-BR	LASALLE	39	13
STA. 22+50.00 TO STA. 28+00.00		CONTRACT NO. 87448		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-1365(13)		

EXISTING STRUCTURE: S.N. 050-3056

Originally built in 1965 as F.A.S. Route 1365, Section 112 A. The existing structure is a single span (1 @ 51'-0") precast, prestressed concrete deck beam structure. 52'-8" back to back of abutments and 30'-0" out to out of deck. Structure to be removed and replaced. Road shall be closed to traffic during construction.

No salvage.

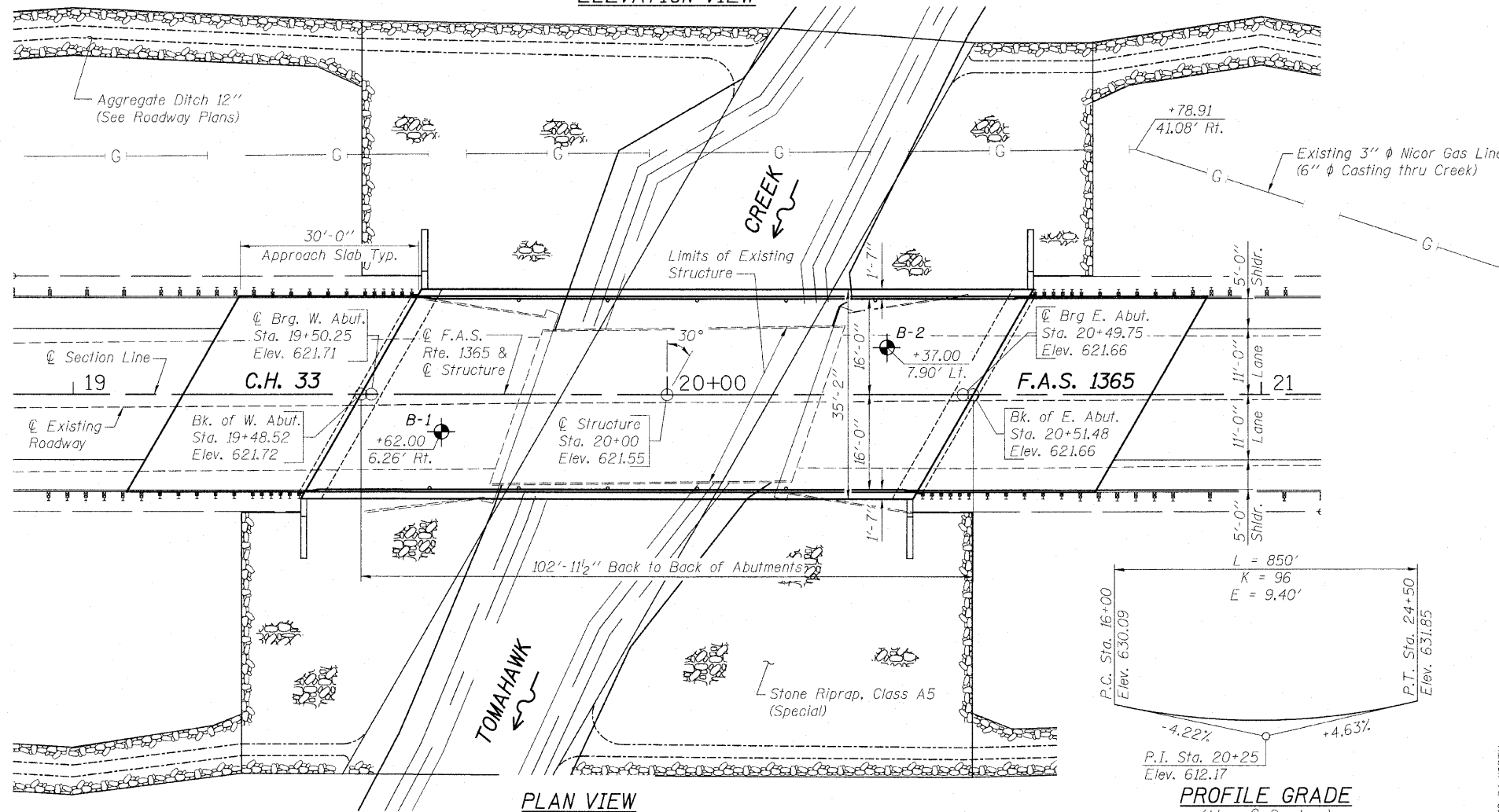
BENCH MARK: Chiseled "Δ" on top of hub guard, southwest corner of bridge, Elev. 620.55



TOMAHAWK CREEK
BUILT 2011 BY
LASALLE COUNTY
SECTION 10-00650-00-BR
FAS RTE 1365 STATION 20+00
STR. NO. 050-3594 LOADING HL-93

NAME PLATE LETTERING
Refer To Std. 515001-03

ELEVATION VIEW



PLAN VIEW

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut. 611.28	E. Abut. 611.23
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WATERWAY INFORMATION

Drainage Area = 35.0 mi² Low Grade Elev. = 621.55 ft. @ Sta. 20+05

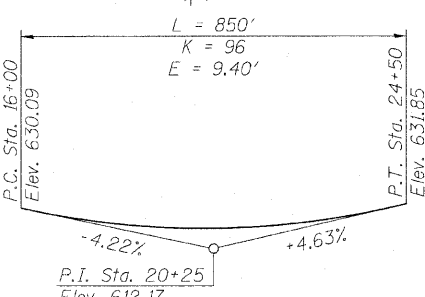
Flood	Freq. Yr.	Q ft ³ /s	Opening ft ²		Nat. H.W.E. ft		Head - ft		Headwater Elev. - ft	
			Exlst.	Prop.	Exlst.	Prop.	Exlst.	Prop.	Exlst.	Prop.
Design	20	2,950	477	607	611.77	0.17	0.11	611.94	611.88	
Base	100	4,330	523	663	612.76	0.56	0.40	613.32	613.16	
Overtopping	-	-	-	-	-	-	-	-	-	

DESIGN STRESSES

FIELD UNITS
 $f_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
PRECAST PRESTRESSED UNITS
 $f_c = 6,000$ psi
 $f_{ci} = 5,000$ psi
 $f_{pu} = 270,000$ psi ($\frac{1}{2}$ " ϕ Low Lax Strands)
 $f_{pbt} = 201,960$ psi ($\frac{1}{2}$ " ϕ Low Lax Strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.045g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.11g
 Soil Site Class = B

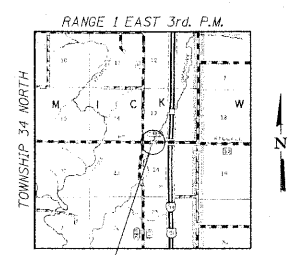


PROFILE GRADE
(Along ϕ Roadway)



Brian J. Converse
DATE: 10/27/2010
EXPIRES 11/30/10

"I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS BRIDGE DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS, THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT 'AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES'."



LOCATION SKETCH

LOADING HL-93

Allow 50# / Sq. Ft. for Future Wearing Surface

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications with 2008 & 2009 Interims

BILL OF MATERIAL - BRIDGE

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.	---	1,533	1,533
Removal of Existing Structures	Each	---	---	1
Structure Excavation	Cu. Yd.	---	616	616
Floor Drains	Each	10	---	10
Concrete Structures	Cu. Yd.	23.3	48.6	71.9
Concrete Superstructure	Cu. Yd.	286.9	---	286.9
Bridge Deck Grooving	Sq. Yd.	549	---	549
Concrete Encasement	Cu. Yd.	---	4.2	4.2
Protective Coat	Sq. Yd.	671	---	671
Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams 63"	Foot	504.0	---	504.0
Reinforcement Bars, Epoxy Coated	Pound	56,380	6,120	62,500
Bar Splicers	Each	68	---	68
Furnishing Steel Piles HP12x63	Foot	---	130	130
Driving Piles	Foot	---	130	130
Test Pile Steel HP12x63	Each	---	2	2
Name Plates	Each	1	---	1
Geocomposite Wall Drain	Sq. Yd.	---	130	130
Concrete Headwalls for Pipe Drains	Each	---	4	4
Porous Granular Embankment, Special	Cu. Yd.	---	264	264
Stone Riprap, Class A5 (Special)	Ton	---	2,230	2,230
Asbestos Bearing Pad Removal	Each	---	22	22
Pipe Underdrains for Structures 4"	Foot	---	208	208

* See Special Provisions.
 ** Includes Deck, Approach Pavement, and Top & Inside Face of Parapet Only.

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
 Reinforcement bars designated (E) shall be epoxy coated.
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

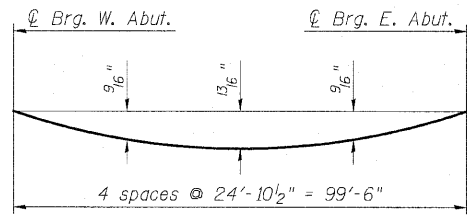
INDEX OF SHEETS

- 1.) GENERAL PLAN AND ELEVATION
- 2.) RIPRAP & PILE LAYOUT
- 3-4.) TOP OF SLAB ELEVATIONS
- 5-6.) TOP OF WEST & EAST BRIDGE APPROACH SLAB ELEVATIONS
- 7.) FRAMING PLAN
- 8.) SUPERSTRUCTURE
- 9.) SUPERSTRUCTURE DETAILS
- 10.) DIAPHRAGM DETAILS
- 11.) BRIDGE APPROACH SLAB DETAILS
- 12.) 63" PPC BULB T BEAM
- 13.) 63" PPC BULB T BEAM DETAILS
- 14.) WEST ABUTMENT DETAILS
- 15.) EAST ABUTMENT DETAILS
- 16.) HP PILE DETAILS
- 17.) BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
- 18.) BORING LOGS

GENERAL PLAN & ELEVATION
C.H. 33 OVER TOMAHAWK CREEK
F.A.S. RTE. 1365 - SEC. 10-00650-00-BR
LASALLE COUNTY
STATION 20+00
S.N. 050-3594

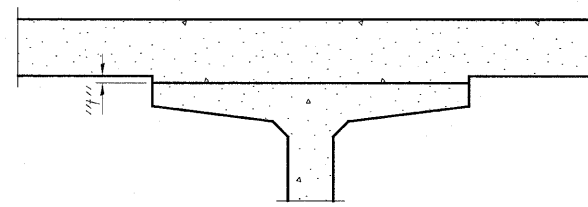
WHA JOB NUMBER 1155D08	 809 East Second Street Phone 815.284.3381 Design Firm #184-000918 www.willetthofmann.com	Designed By: M. A. Cackley Date: 6/10
		Checked By: B. K. Converse Date: 7/10
		Drawn By: R. D. Allen Date: 6/10
STRUCTURAL SHEET NO. 1 OF 18 SHEETS	F.A.S. RTE. 1365 SECTION 10-00650-00-BR COUNTY LASALLE TOTAL SHEETS 39 SHEET NO. 14	CONTRACT NO. 87448

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-1365(113)

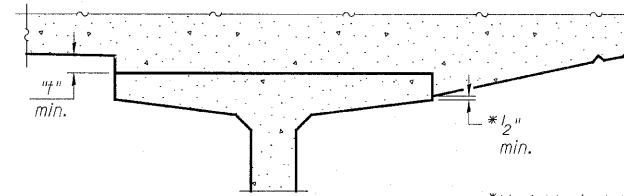


DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete deck only).

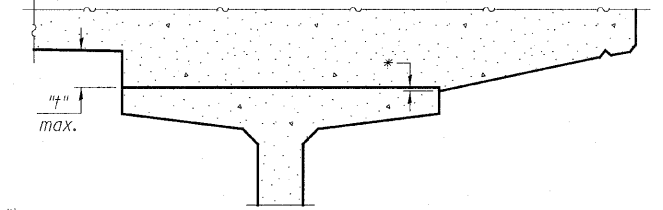
Note:
The above deflections are not to be used in the field if the Engineer is working from the grade elevations adjusted for dead load deflections as shown on Structural Sheet 4 of 18.



INTERIOR BEAMS



AT MINIMUM FILLET



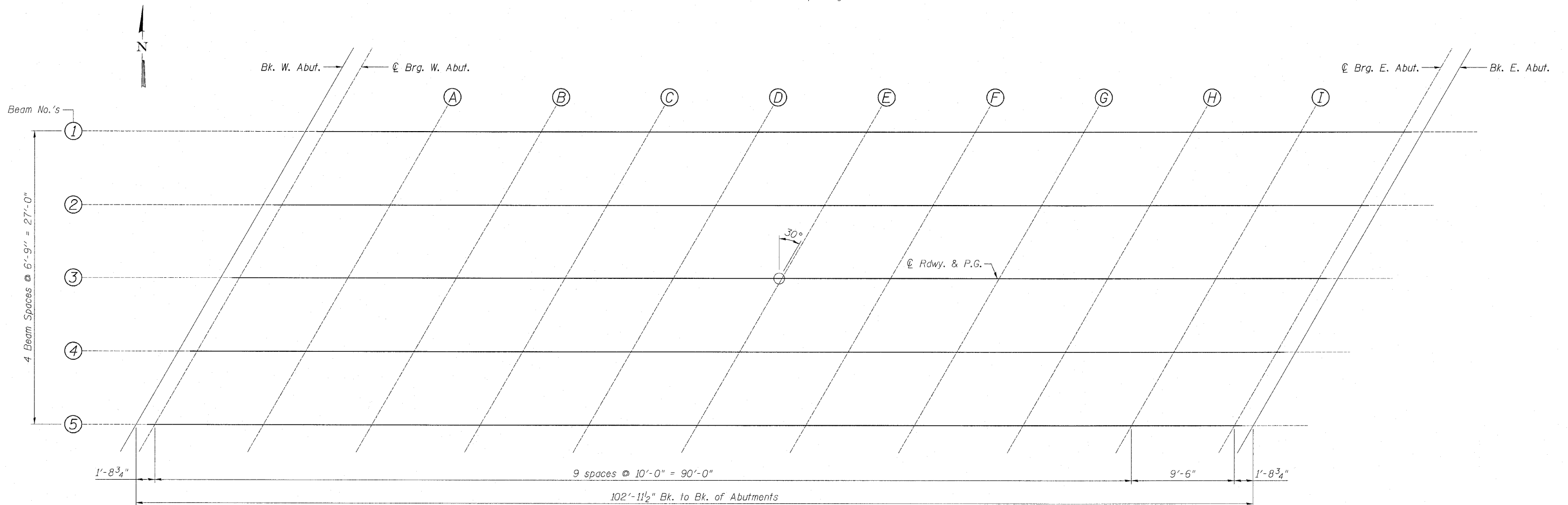
AT MAXIMUM FILLET

*Variable (not less than 1/2")

EXTERIOR BEAMS

FILLET HEIGHTS

To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown on Structural Sheet 4 of 18, minus slab thickness, equals the fillet heights "t" above top flanges of beams.



PLAN

TOP OF SLAB ELEVATIONS
C.H. 33 OVER TOMAHAWK CREEK
F.A.S. RTE. 1365 - SEC. 10-00650-00-BR
LASALLE COUNTY
STATION 20+00
S.N. 050-3594
WHA # 1155D08

STRUCTURAL SHEET NO. 3 OF 18 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1365	10-00650-00-BR	LASALLE	39	16
CONTRACT NO. 87448					
FED. ROAD DIST. NO. 7 [ILLINOIS] FED. AID PROJECT BRS-1365(113)					

FILE NAME: s:\projects\1155D08\Drawings\1155D08.dwg

BEAM 1

Location	Station	Offset Lt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	19+56.31	13.500	621.46	621.46
W. C. Brg.	19+58.04	13.500	621.45	621.45
A	19+68.04	13.500	621.41	621.43
B	19+78.04	13.500	621.37	621.41
C	19+88.04	13.500	621.35	621.40
D	19+98.04	13.500	621.34	621.40
E	20+08.04	13.500	621.33	621.40
F	20+18.04	13.500	621.34	621.41
G	20+28.04	13.500	621.36	621.42
H	20+38.04	13.500	621.39	621.43
I	20+48.04	13.500	621.43	621.45
E. C. Brg.	20+57.54	13.500	621.48	621.48
Back E. Abut.	20+59.27	13.500	621.49	621.49

BEAM 2

Location	Station	Offset Lt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	19+52.42	6.750	621.59	621.59
W. C. Brg.	19+54.15	6.750	621.58	621.58
A	19+64.15	6.750	621.54	621.56
B	19+74.15	6.750	621.50	621.54
C	19+84.15	6.750	621.47	621.53
D	19+94.15	6.750	621.45	621.52
E	20+04.15	6.750	621.45	621.52
F	20+14.15	6.750	621.45	621.52
G	20+24.15	6.750	621.47	621.52
H	20+34.15	6.750	621.49	621.53
I	20+44.15	6.750	621.53	621.55
E. C. Brg.	20+53.65	6.750	621.57	621.57
Back E. Abut.	20+55.38	6.750	621.58	621.58

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	19+48.52	0.000	621.72	621.72
W. C. Brg.	19+50.25	0.000	621.71	621.71
A	19+60.25	0.000	621.66	621.68
B	19+70.25	0.000	621.62	621.66
C	19+80.25	0.000	621.59	621.64
D	19+90.25	0.000	621.56	621.63
E	20+00.25	0.000	621.55	621.62
F	20+10.25	0.000	621.55	621.62
G	20+20.25	0.000	621.56	621.62
H	20+30.25	0.000	621.59	621.62
I	20+40.25	0.000	621.62	621.64
E. C. Brg.	20+49.75	0.000	621.66	621.66
Back E. Abut.	20+51.48	0.000	621.66	621.66

BEAM 4

Location	Station	Offset Rt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	19+44.62	6.750	621.64	621.64
W. C. Brg.	19+46.35	6.750	621.63	621.63
A	19+56.35	6.750	621.57	621.59
B	19+66.35	6.750	621.53	621.57
C	19+76.35	6.750	621.49	621.55
D	19+86.35	6.750	621.47	621.53
E	19+96.35	6.750	621.45	621.52
F	20+06.35	6.750	621.45	621.51
G	20+16.35	6.750	621.45	621.51
H	20+26.35	6.750	621.47	621.51
I	20+36.35	6.750	621.50	621.52
E. C. Brg.	20+45.85	6.750	621.53	621.53
Back E. Abut.	20+47.58	6.750	621.54	621.54

BEAM 5

Location	Station	Offset Rt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W. Abut.	19+40.73	13.500	621.55	621.55
W. C. Brg.	19+42.46	13.500	621.54	621.54
A	19+52.46	13.500	621.48	621.50
B	19+62.46	13.500	621.43	621.47
C	19+72.46	13.500	621.39	621.45
D	19+82.46	13.500	621.36	621.43
E	19+92.46	13.500	621.34	621.41
F	20+02.46	13.500	621.33	621.40
G	20+12.46	13.500	621.34	621.39
H	20+22.46	13.500	621.35	621.39
I	20+32.46	13.500	621.37	621.39
E. C. Brg.	20+41.96	13.500	621.40	621.40
Back E. Abut.	20+43.69	13.500	621.41	621.41

TOP OF SLAB ELEVATIONS
 C.H. 33 OVER TOMAHAWK CREEK
 F.A.S. RTE. 1365 - SEC. 10-00650-00-BR
 LASALLE COUNTY
 STATION 20+00
 S.N. 050-3594
 WHA # 1155D08

STRUCTURAL SHEET NO. 4 OF 18 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1365	10-00650-00-BR	LASALLE	39	17
			CONTRACT NO. 87448		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-1365(113)					

FILE NAME: z:\sprink\1155D08_0132_Lasalle_County\Drawings\1155D08.dwg

LEFT EDGE OF APPROACH PAVEMENT

Location	Station	Offset Lt.	Theoretical Grade Elevations
A	19+28.00	16.417	621.58
B	19+38.00	16.417	621.51
C	19+48.00	16.417	621.44
D	19+58.00	16.417	621.39

LEFT EDGE OF TRAFFIC LANE

Location	Station	Offset Lt.	Theoretical Grade Elevations
A	19+25.45	12.000	621.69
B	19+35.45	12.000	621.62
C	19+45.45	12.000	621.55
D	19+55.45	12.000	621.49

CENTERLINE

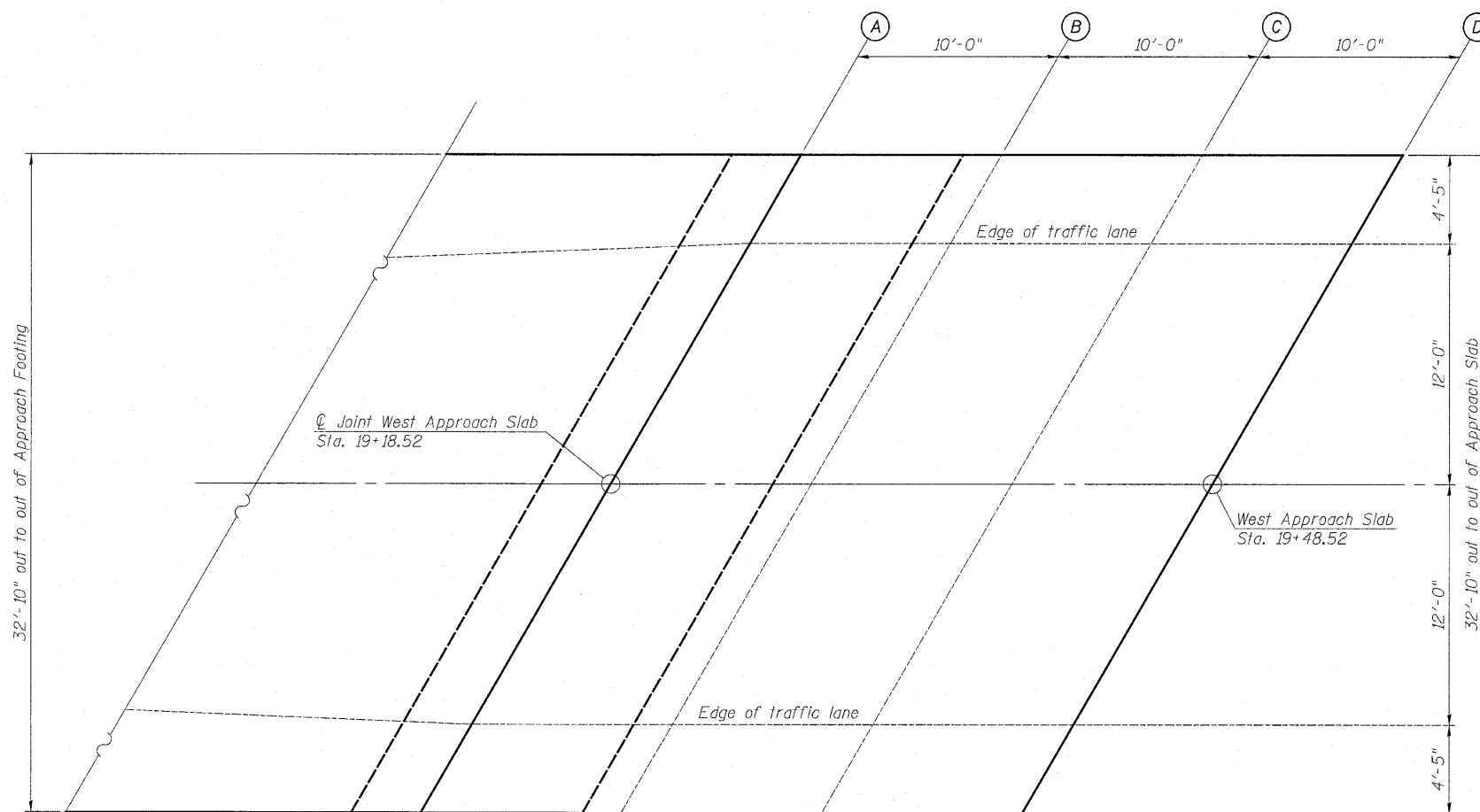
Location	Station	Offset	Theoretical Grade Elevations
A	19+18.52	0.000	621.95
B	19+28.52	0.000	621.86
C	19+38.52	0.000	621.79
D	19+48.52	0.000	621.72

RIGHT EDGE OF TRAFFIC LANE

Location	Station	Offset Rt.	Theoretical Grade Elevations
A	19+11.59	12.000	621.82
B	19+21.59	12.000	621.73
C	19+31.59	12.000	621.65
D	19+41.59	12.000	621.57

RIGHT EDGE OF APPROACH PAVEMENT

Location	Station	Offset Rt.	Theoretical Grade Elevations
A	19+09.04	16.417	621.76
B	19+19.04	16.417	621.66
C	19+29.04	16.417	621.58
D	19+39.04	16.417	621.50



PLAN

**TOP OF WEST BRIDGE APPROACH SLAB ELEVATIONS
C.H. 33 OVER TOMAHAWK CREEK
F.A.S. RTE. 1365 - SEC. 10-00650-00-BR
LASALLE COUNTY
STATION 20+00
S.N. 050-3594
WHA # 1155D08**

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STRUCTURAL SHEET NO. 5 OF 18 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1365	10-00650-00-BR	LASALLE	39	18
FED. ROAD DIST. NO. 7 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 87448		
BRS-1365(113)					

LEFT EDGE OF APPROACH PAVEMENT

Location	Station	Offset Lt.	Theoretical Grade Elevations
A	20+60.96	16.417	621.43
B	20+70.96	16.417	621.50
C	20+80.96	16.417	621.57
D	20+90.96	16.417	621.65

LEFT EDGE OF TRAFFIC LANE

Location	Station	Offset Lt.	Theoretical Grade Elevations
A	20+58.41	12.000	621.51
B	20+68.41	12.000	621.57
C	20+78.41	12.000	621.64
D	20+88.41	12.000	621.72

CENTERLINE

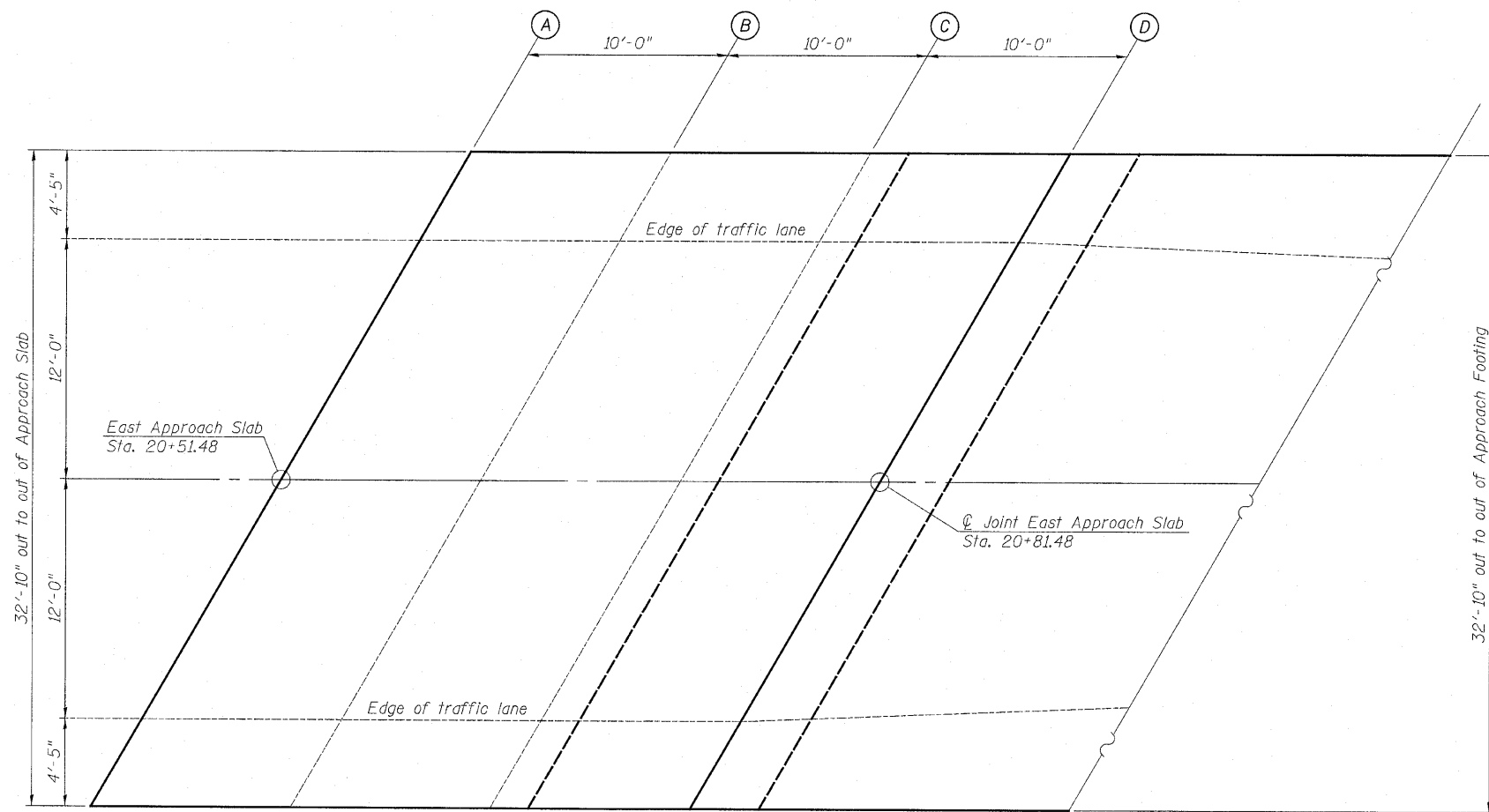
Location	Station	Offset	Theoretical Grade Elevations
A	20+51.48	0.000	621.66
B	20+61.48	0.000	621.72
C	20+71.48	0.000	621.78
D	20+81.48	0.000	621.85

RIGHT EDGE OF TRAFFIC LANE

Location	Station	Offset Rt.	Theoretical Grade Elevations
A	20+44.55	12.000	621.44
B	20+54.55	12.000	621.49
C	20+64.55	12.000	621.55
D	20+74.55	12.000	621.61

RIGHT EDGE OF APPROACH PAVEMENT

Location	Station	Offset Rt.	Theoretical Grade Elevations
A	20+42.00	16.417	621.34
B	20+52.00	16.417	621.39
C	20+62.00	16.417	621.44
D	20+72.00	16.417	621.50

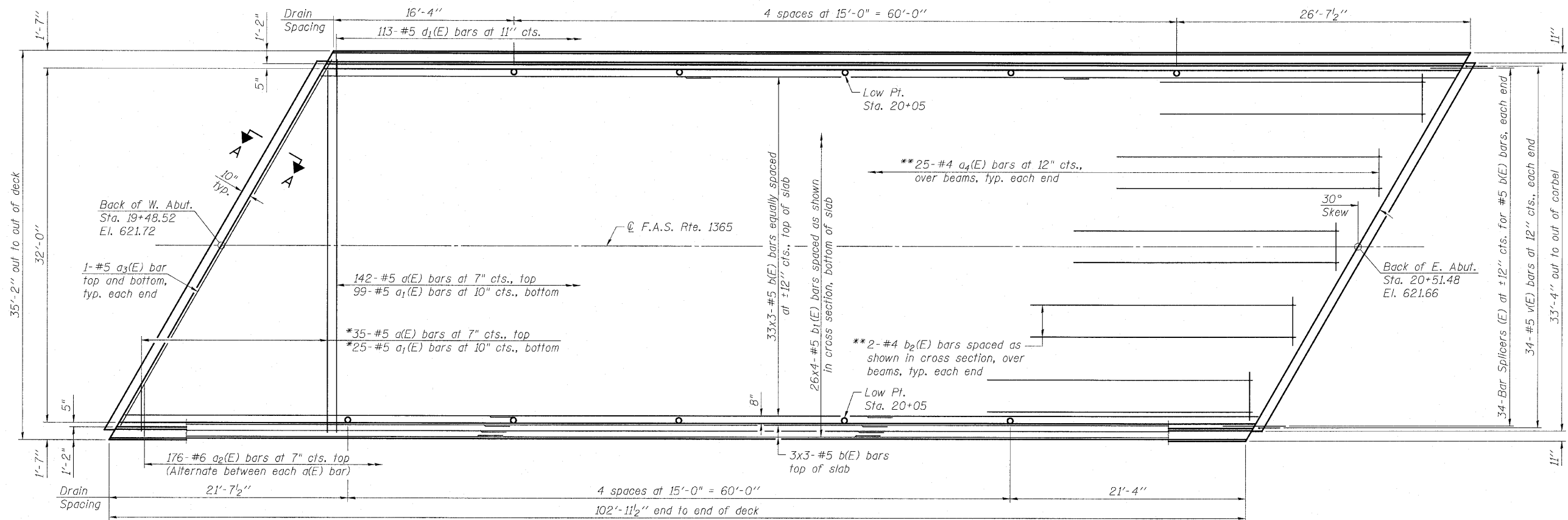


PLAN

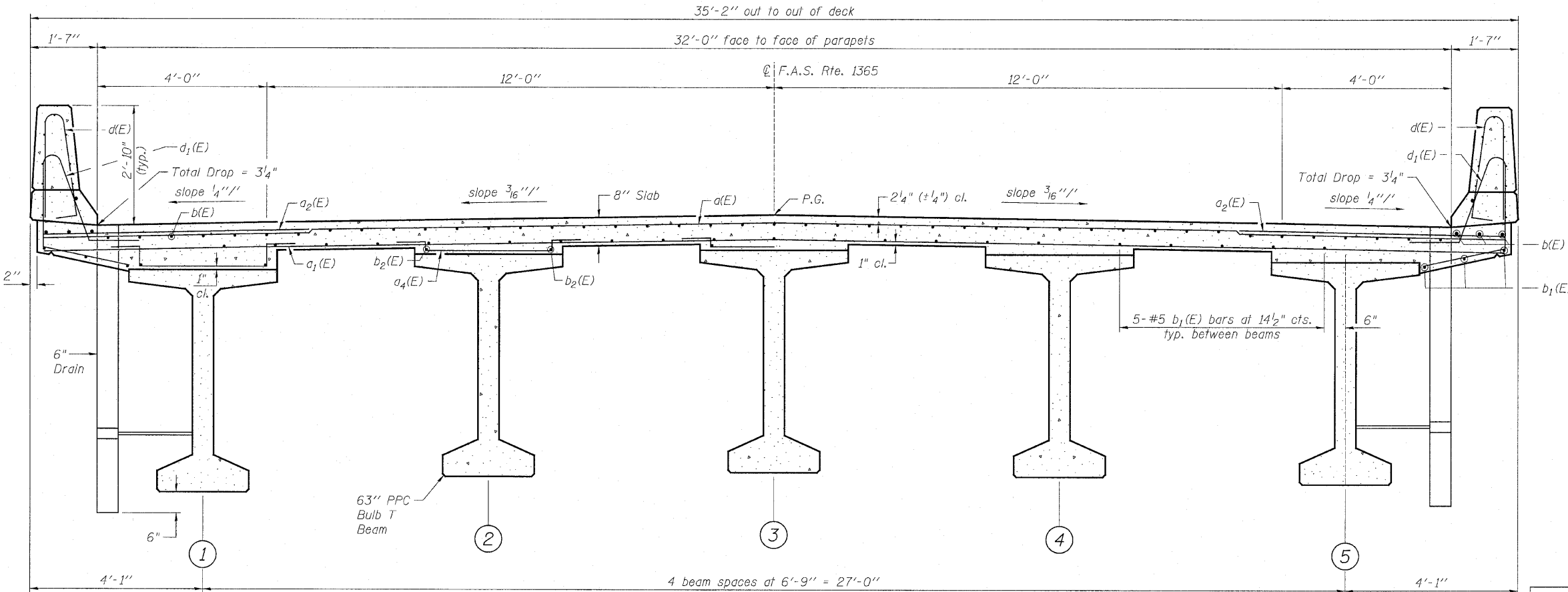
TOP OF EAST BRIDGE APPROACH SLAB ELEVATIONS
C.H. 33 OVER TOMAHAWK CREEK
F.A.S. RTE. 1365 - SEC. 10-00650-00-BR
LASALLE COUNTY
STATION 20+00
S.N. 050-3594
 WHA # 1155D08

FILE NAME: c:\stpsucka\1155D08\CH33_Lasalle_County\Drawings\1155 Approach\TOS.dgn

STRUCTURAL SHEET NO. 6 OF 18 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1365	10-00650-00-BR	LASALLE	39	19
			CONTRACT NO. 87448		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-1365(113)					



PLAN



CROSS SECTION
(Looking East)

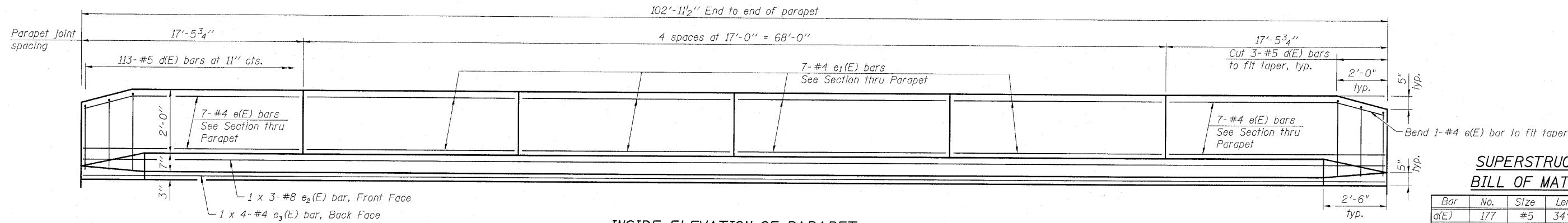
MIN. LAP	
SIZE	LAP
#4	2'-7"
#5	3'-3"
#6	3'-10"

- NOTES:**
- See Structural Sheet 9 of 18 for Superstructure Details and Bill of Material.
 - For Section A-A and Diaphragm Details, see Structural Sheet 10 of 18.
 - See Structural Sheet 9 of 18 for parapet reinforcement. Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
 - * Order d(E) and a₁(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.
 - ** Required where fillet exceeds 2 1/2", exact number of a₄(E) bars & length of b₂(E) bars to be determined during construction.

SUPERSTRUCTURE
C.H. 33 OVER TOMAHAWK CREEK
F.A.S. RTE. 1365 - SEC. 10-00650-00-BR
LASALLE COUNTY
STATION 20+00
S.N. 050-3594
 WHA # 1155D08

STRUCTURAL SHEET NO. 8 OF 18 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1365	10-00650-00-BR	LASALLE	39	21
			CONTRACT NO. 87448		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-1365(113)					

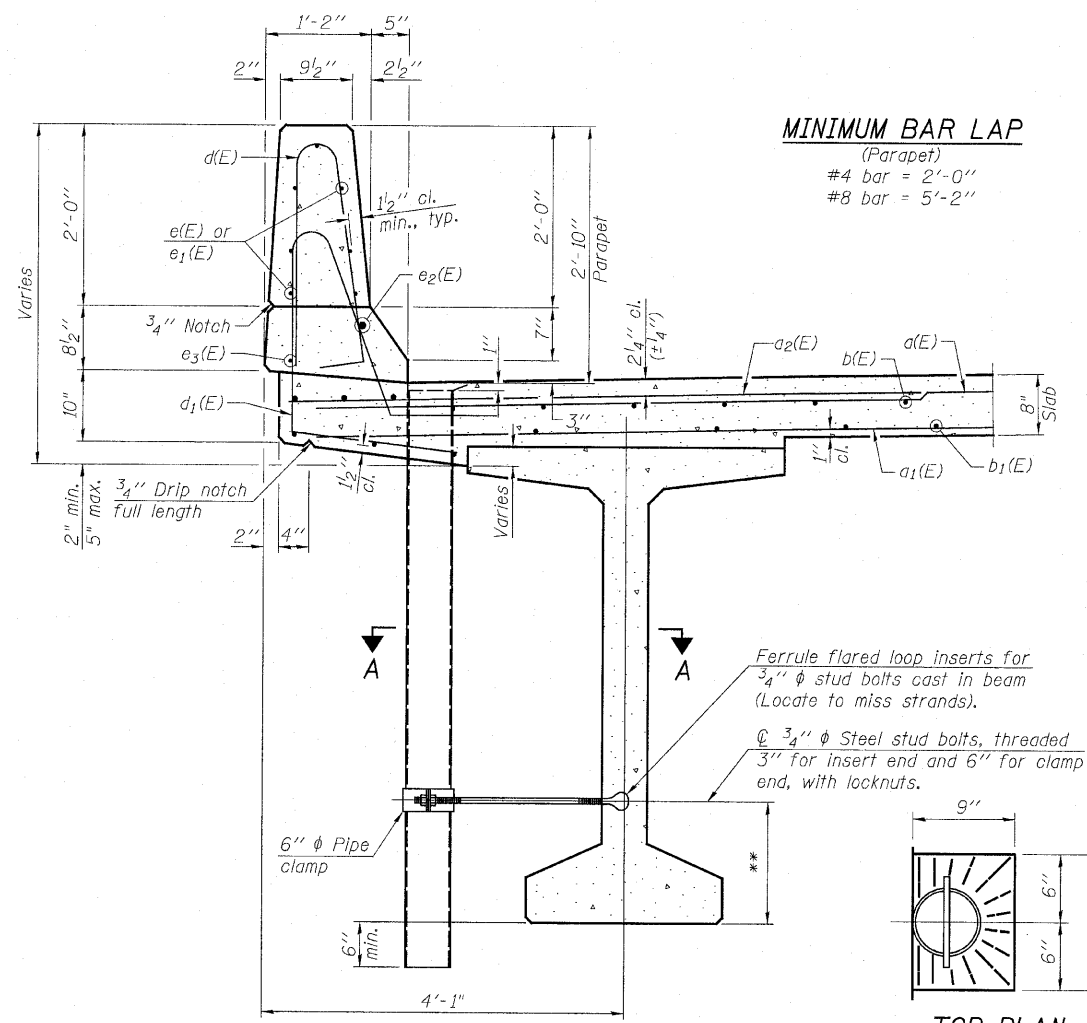
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INSIDE ELEVATION OF PARAPET

**SUPERSTRUCTURE
BILL OF MATERIAL**

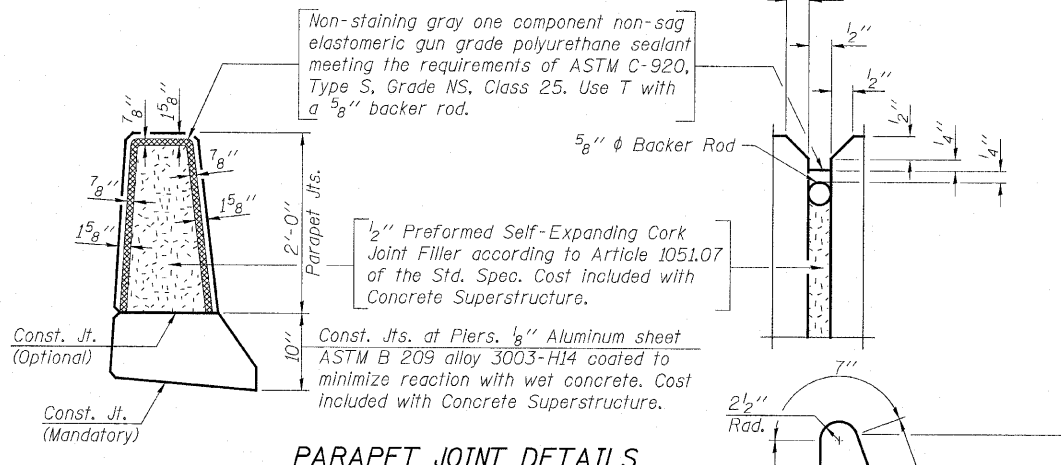
Bar	No.	Size	Length	Shape
a(E)	177	#5	34'-6"	—
a1(E)	124	#5	33'-6"	—
a2(E)	352	#6	6'-6"	—
a3(E)	4	#5	39'-10"	—
a4(E)	250	#4	5'-9"	└
b(E)	117	#5	36'-5"	—
b1(E)	104	#5	28'-2"	—
b2(E)	20	#4	24'-0"	—
d(E)	226	#5	5'-7"	└
d1(E)	226	#5	7'-8"	└
e(E)	28	#4	17'-1"	—
e1(E)	56	#4	16'-8"	—
e2(E)	6	#8	38'-9"	—
e3(E)	8	#4	27'-8"	—
m(E)	10	#6	40'-2"	—
m1(E)	24	#6	11'-8"	—
m2(E)	8	#6	4'-10"	—
m3(E)	4	#6	3'-0"	—
m4(E)	4	#6	38'-1"	—
m5(E)	16	#6	10'-4"	—
s(E)	60	#5	6'-9"	└
s1(E)	36	#4	16'-1"	└
v(E)	68	#5	4'-0"	└
Floor Drains	Each		10	
Concrete Superstructure	Cu. Yd.		190.9	
Bridge Deck Grooving	Sq. Yd.		343	
Protective Coat	Sq. Yd.		452	
Reinforcement Bars, Epoxy Coated	Pound		30,590	



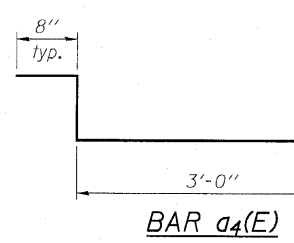
SECTION THRU PARAPET

**For insert locations see Structural Sheet 8 of 18.

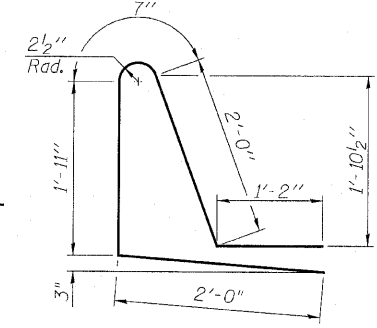
MINIMUM BAR LAP
(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"



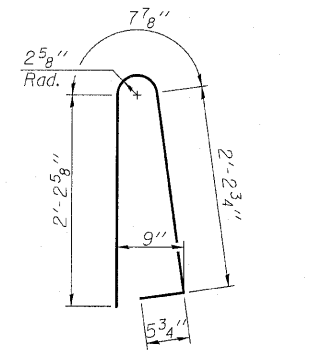
PARAPET JOINT DETAILS



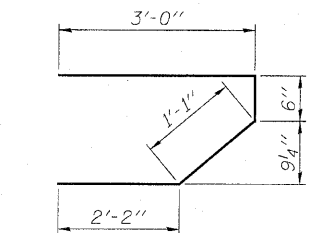
BAR a4(E)



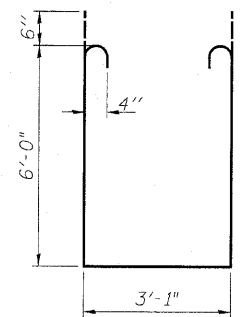
BAR d1(E)



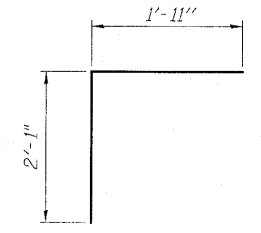
BAR d(E)



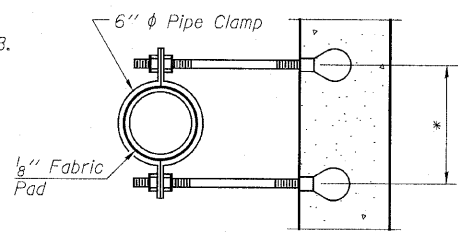
BAR s(E)



BAR s1(E)

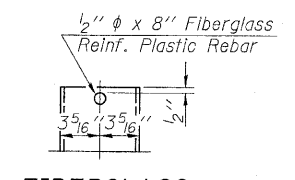


BAR v(E)

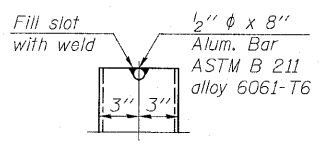


SECTION A-A

*Dimension as required by Pipe Clamp



FIBERGLASS PIPE



ALUMINUM TUBE

TOP PLAN
(Showing Aluminum Tube)

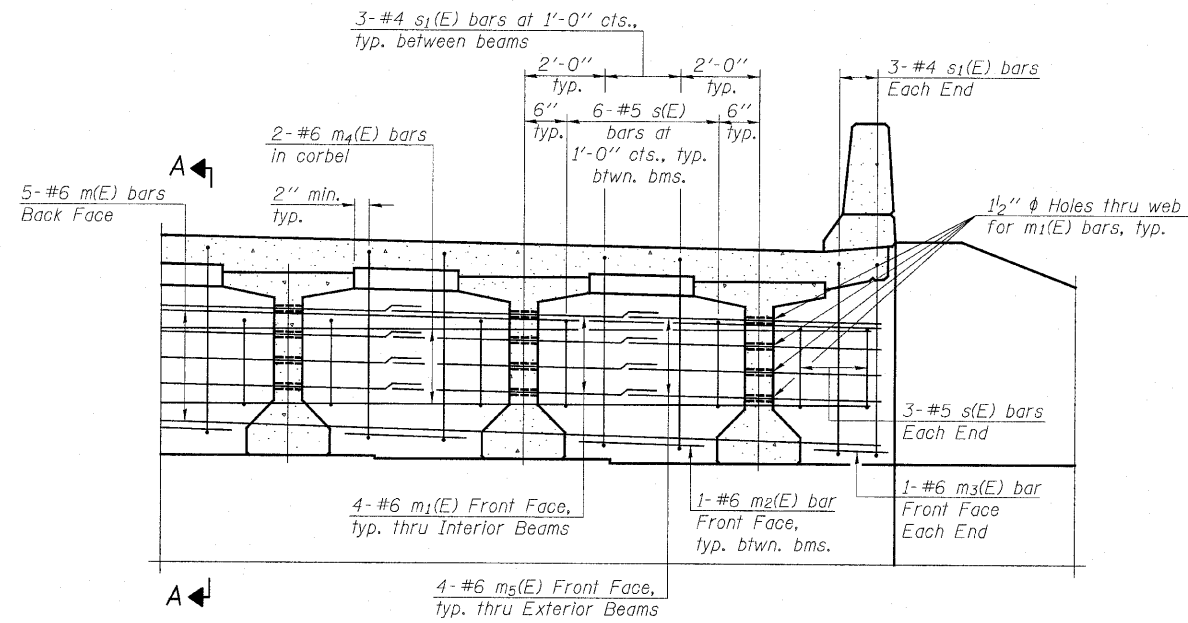
NOTES:

Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
The exterior surfaces of the floor drains shall be coated or pigmented by the manufacturer with a color that matches the concrete.
The clamping device and inserts shall be galvanized according to AASHTO M 232. Cost of clamping device and inserts included with Floor Drains.
Bars indicated thus 1 x 3-#8 etc. indicates 1 line of bars with 3 lengths per line.

SUPERSTRUCTURE DETAILS
C.H. 33 OVER TOMAHAWK CREEK
F.A.S. RTE. 1365 - SEC. 10-00650-00-BR
LASALLE COUNTY
STATION 20+00
S.N. 050-3594
WHA # 1155D08

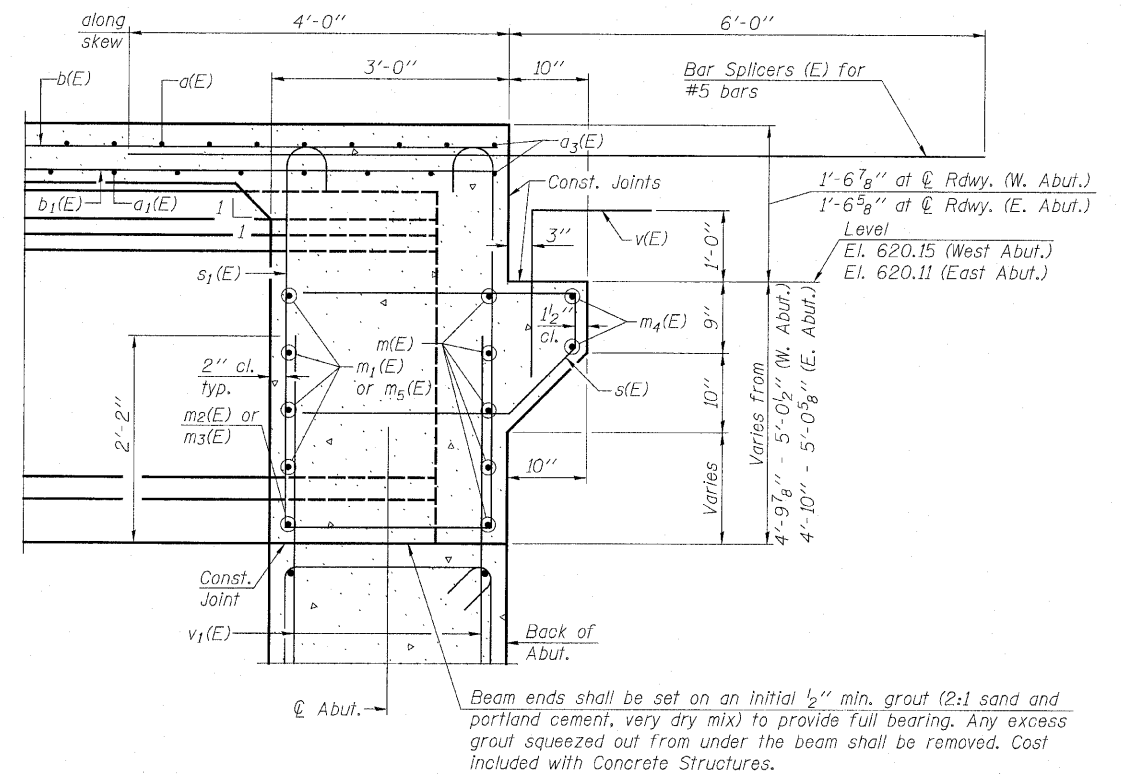
STRUCTURAL SHEET NO. 9 OF 18 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1365	10-00650-00-BR	LASALLE	39	22
			CONTRACT NO. 87448		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-1365(113)					

FILE NAME: I:\ASSETS\1155D08\CHEG\1365\10-00650-00-BR\1155-Superstructure\Detail\1155-Structural\1155-Structural-Details\1155-Structural-Details-9.dwg



DIAPHRAGM ELEVATION AT ABUTMENT

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



SECTION A-A

Dimensions at right angles to abutment, except as shown.

NOTES:

Reinforcement bars in diaphragm are billed with superstructure on Structural Sheet 9 of 18.

Concrete in diaphragm is included with Concrete Superstructure on Structural Sheet 9 of 18.

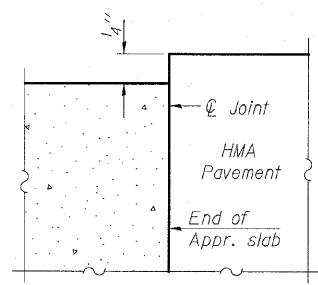
For details of bars s(E) and s1(E) see Structural Sheet 9 of 18.

The s(E) and s1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

DIAPHRAGM DETAILS
C.H. 33 OVER TOMAHAWK CREEK
F.A.S. RTE. 1365 - SEC. 10-00650-00-BR
LASALLE COUNTY
STATION 20+00
S.N. 050-3594
WHA # 1155D08

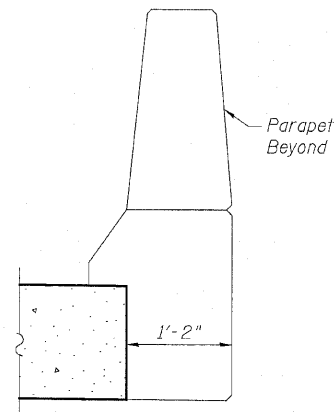
STRUCTURAL SHEET NO. 10 OF 18 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1365	10-00650-00-BR	LASALLE	39	23
			CONTRACT NO. 87448		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-1365(113)					

FILE NAME: z:\s\p\ca\1155D08\CH33\Lasalle\Drawings\1155_Diaphragm\Diaphragm.dwg

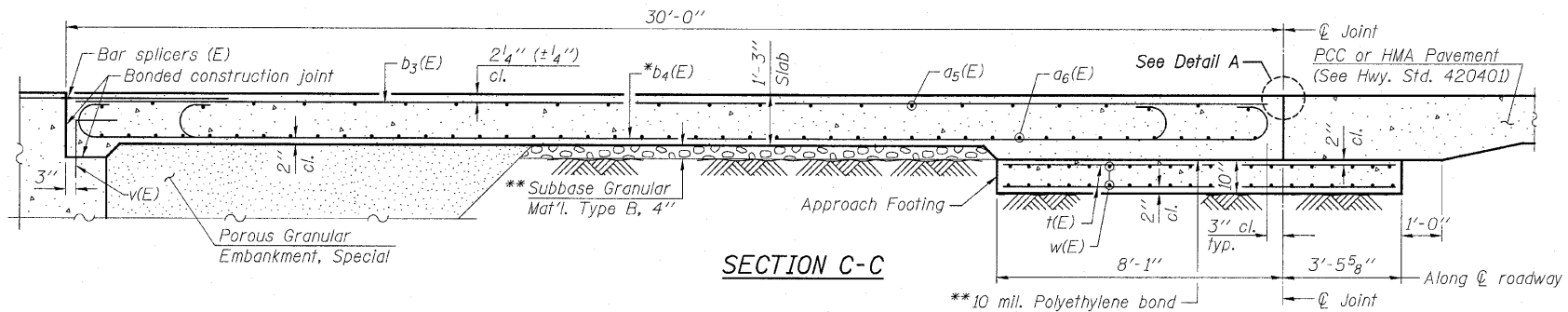


FLEXIBLE PAVEMENT

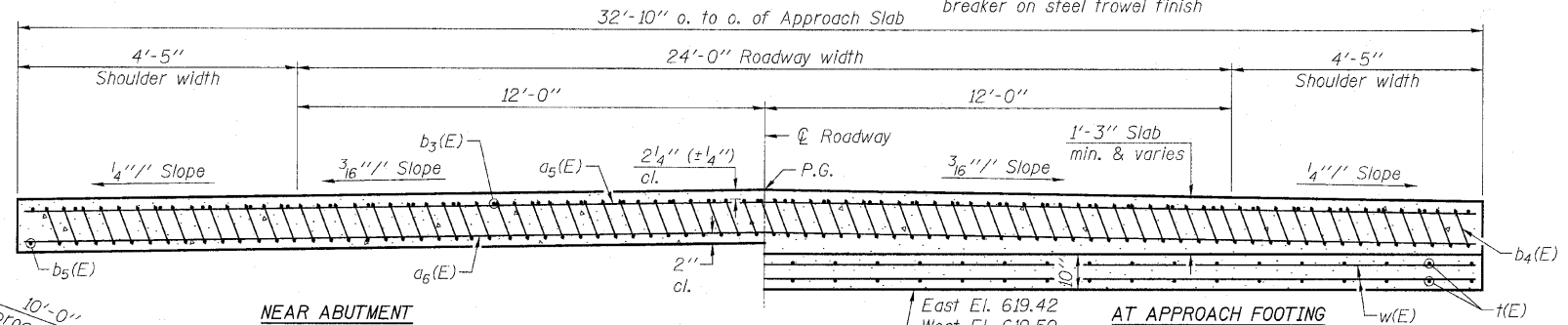
DETAIL A



VIEW B-B



SECTION C-C



NEAR ABUTMENT

SECTION D-D

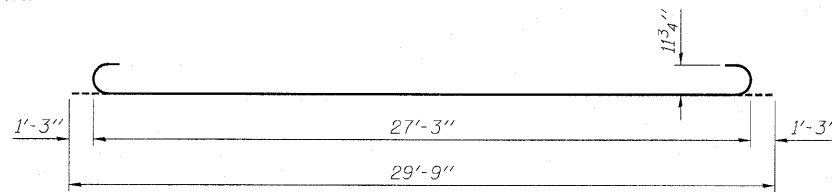
(See Plan for dimensions not shown.)

East El. 619.42
West El. 619.50
(Level out to out)

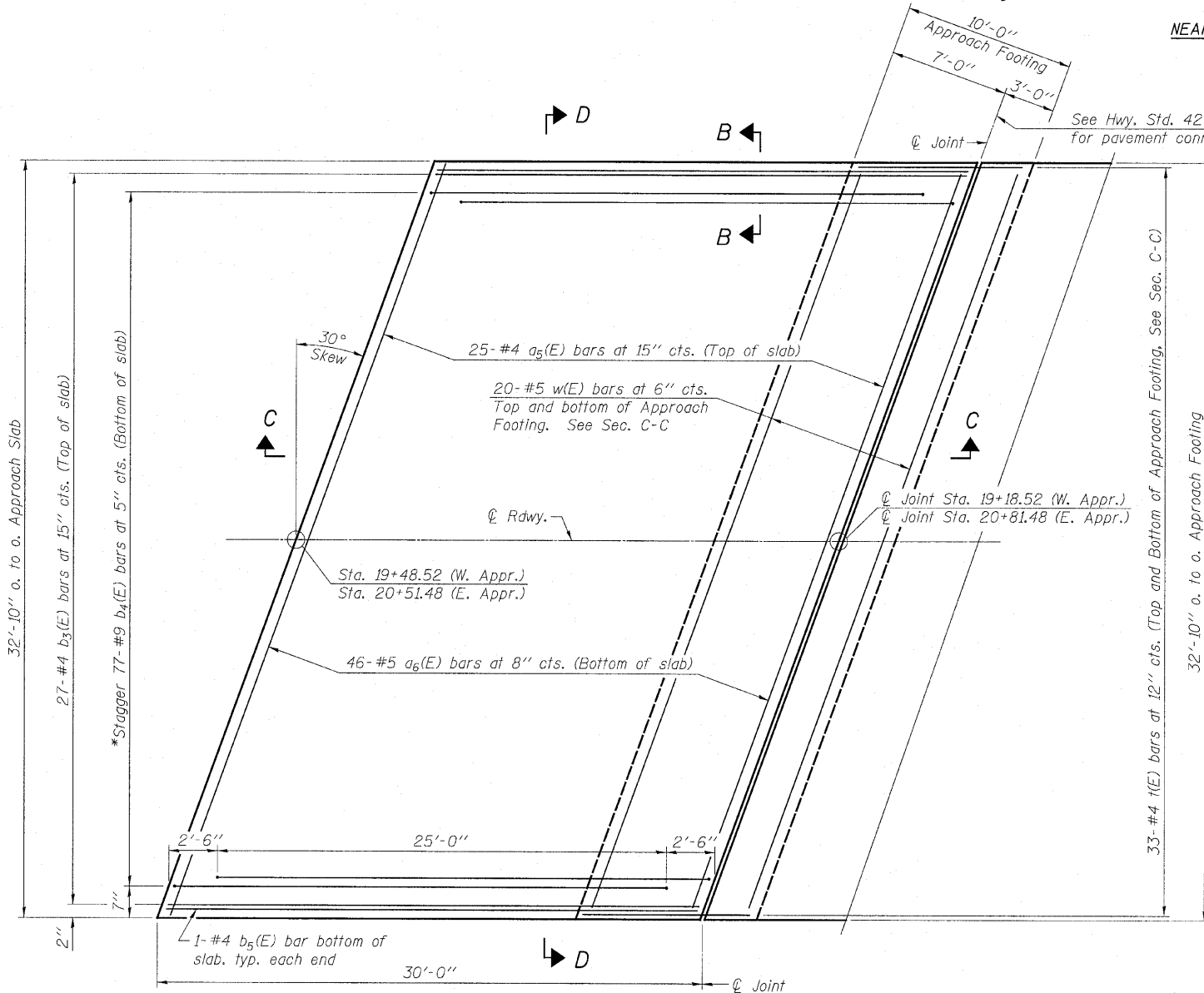
AT APPROACH FOOTING

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a ₅ (E)	50	#4	37'-6"	—	
a ₆ (E)	92	#5	37'-6"	—	
b ₃ (E)	54	#4	29'-8"	—	
b ₄ (E)	154	#9	29'-9"	⌋	
b ₅ (E)	4	#4	29'-8"	—	
t(E)	132	#4	11'-2"	—	
w(E)	80	#5	37'-6"	—	
Concrete Structures				Cu. Yd.	23.3
Concrete Superstructure				Cu. Yd.	96.0
Bridge Deck Grooving				Sq. Yd.	206
Protective Coat				Sq. Yd.	219
Reinforcement Bars, Epoxy Coated				Pound	25,690



BAR b₄(E)

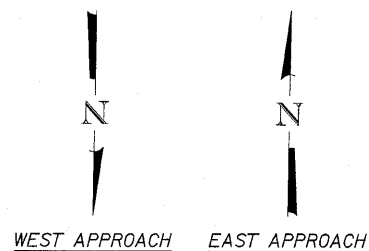


PLAN

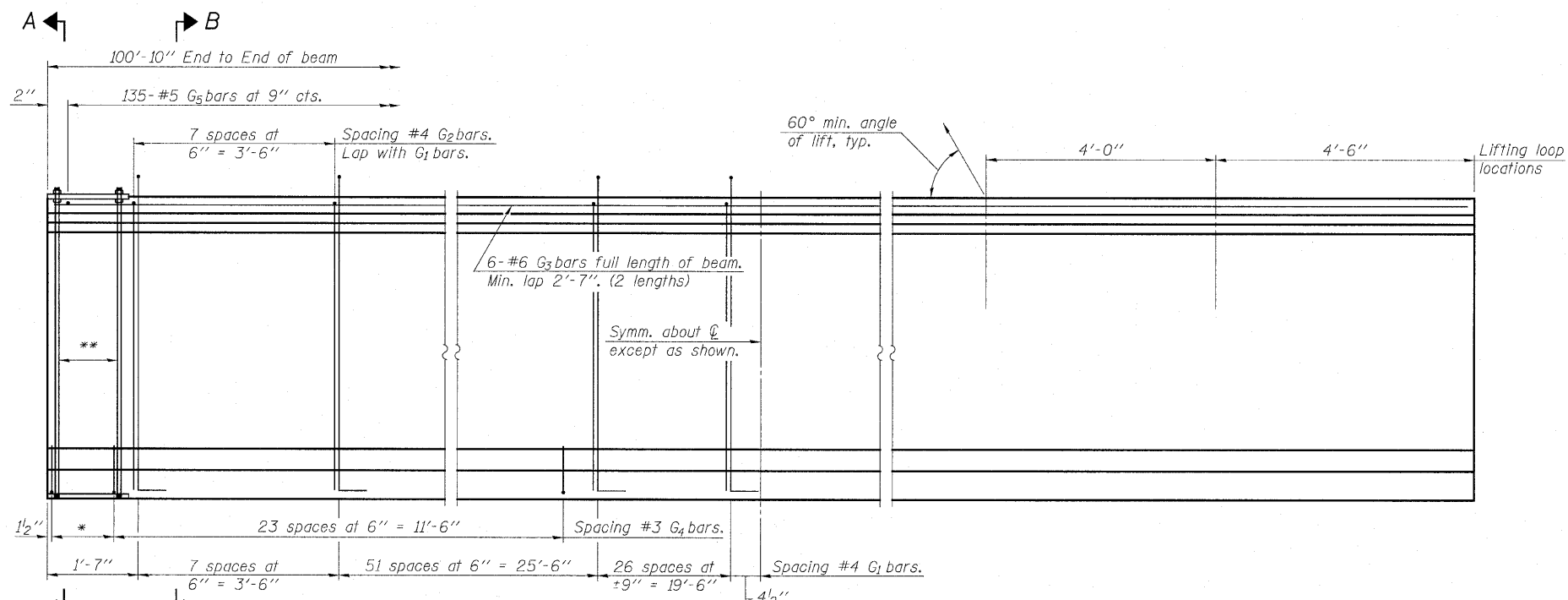
NOTES:

- a₅(E) and a₆(E) bar spacings measured along \varnothing Rdwy.
- Approach slab shall be paid for as Concrete Superstructure.
- Approach footing concrete shall be paid for as Concrete Structures.
- Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
- For v(E) bar details, see Structural Sheet 9 of 18.
- The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
- For Bar Splicer Assembly Details, see Structural Sheet 17 of 18.
- Cost of excavation for approach footing included with Concrete Structures.
- For Porous Granular Embankment, Special and drainage treatment details, see Structural Sheet 2 of 18.
- For additional parapet details, see Structural Sheet 9 of 18.
- * Tilt #9 b₄(E) bars as required to maintain clearance.
- ** Cost included with Concrete Superstructure.

BRIDGE APPROACH SLAB DETAILS
C.H. 33 OVER TOMAHAWK CREEK
F.A.S. RTE. 1365 - SEC. 10-00650-00-BR
LASALLE COUNTY
STATION 20+00
S.N. 050-3594
 WHA # 1155D08

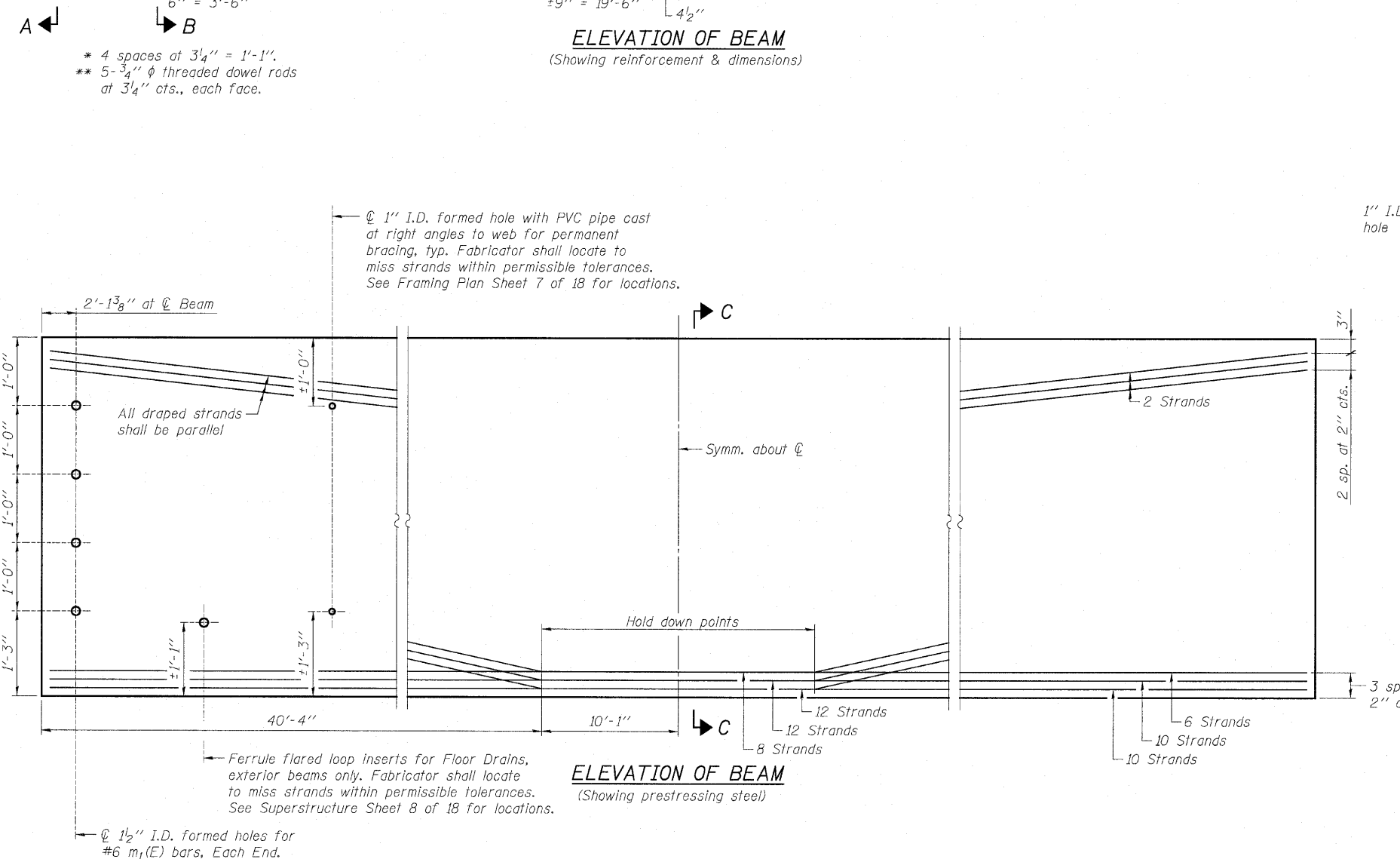


STRUCTURAL SHEET NO. 11 OF 18 SHEETS	F.A.S. RTE. 1365	SECTION 10-00650-00-BR	COUNTY LASALLE	TOTAL SHEETS 39	SHEET NO. 24
CONTRACT NO. 87448					
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BR5-1365(113)					



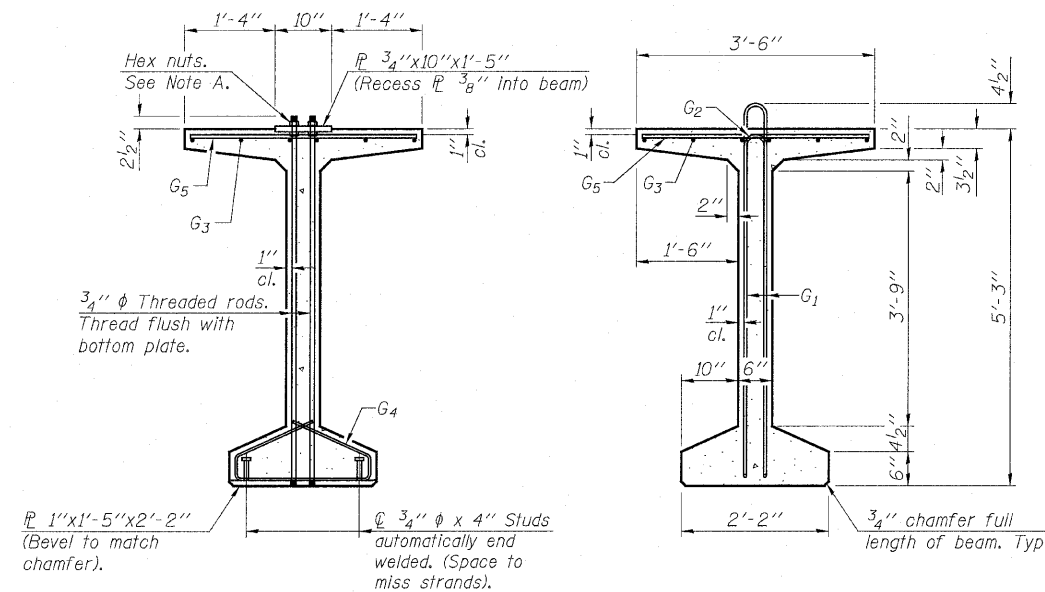
ELEVATION OF BEAM
(Showing reinforcement & dimensions)

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



ELEVATION OF BEAM
(Showing prestressing steel)

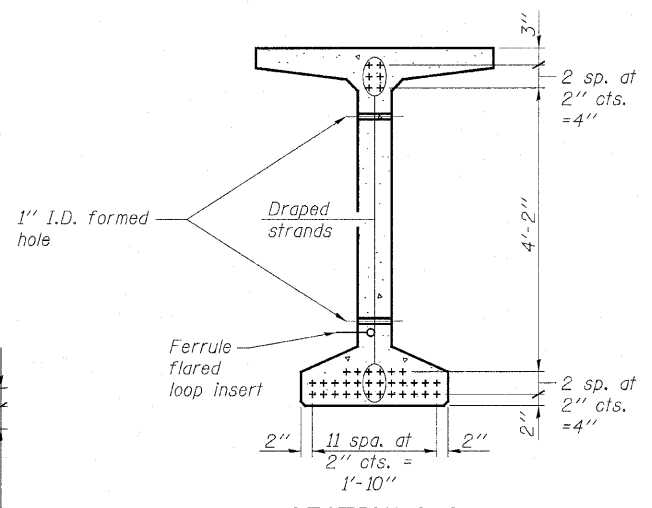
Ferrule flared loop inserts for Floor Drains, exterior beams only. Fabricator shall locate to miss strands within permissible tolerances. See Superstructure Sheet 8 of 18 for locations.



SECTION A-A

SECTION B-B

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



SECTION C-C

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

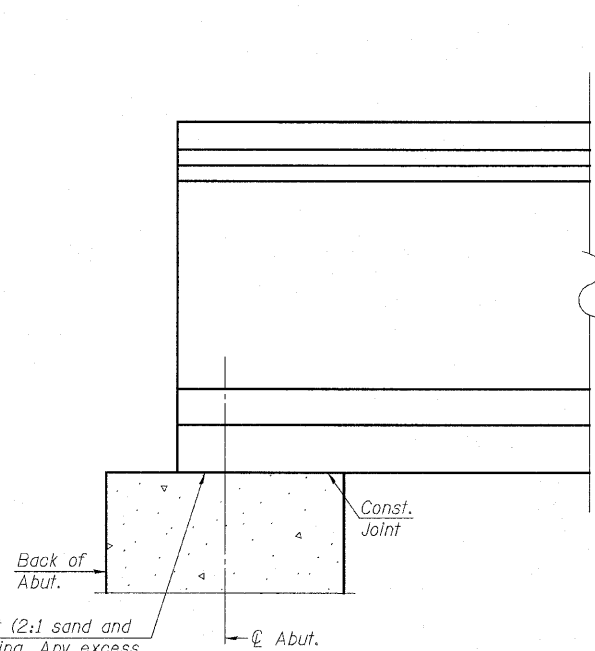
Bar	No.	Size	Length	Shape
G ₁	170	#4	11'-11"	□ L
G ₂	16	#4	10'-2"	□
G ₃	12	#6	52'-2"	—
G ₄	56	#3	4'-11"	⊗
G ₅	135	#5	3'-4"	—

*** For information only

NOTES:
See Structural Sheet 13 of 18 for additional details and Bill of Material.
Required release strength, f'ci, shall be 5,000 psi.
See Structural Sheet 7 of 18 for Permanent Bracing Details.
See Structural Sheet 9 of 18 for Floor Drain Details.

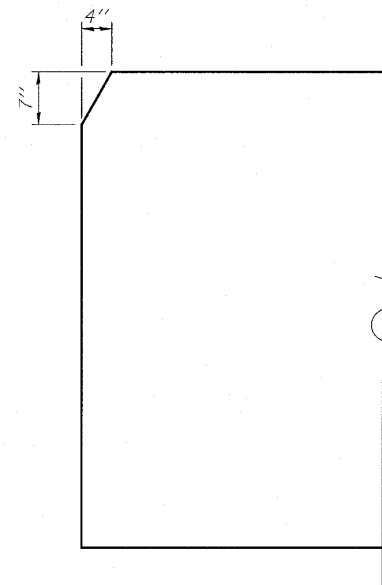
**63" PPC BULB T-BEAM
C.H. 33 OVER TOMAHAWK CREEK
F.A.S. RTE. 1365 - SEC. 10-00650-00-BR
LASALLE COUNTY
STATION 20+00
S.N. 050-3594
WHA # 1155D08**

STRUCTURAL SHEET NO. 12 OF 18 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1365	10-00650-00-BR	LASALLE	39	25
CONTRACT NO. 87448					
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-1365(113)					



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

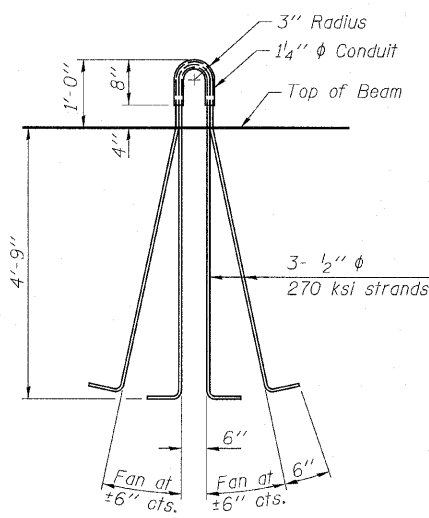
ELEVATION OF BEAM AT ABUTMENT



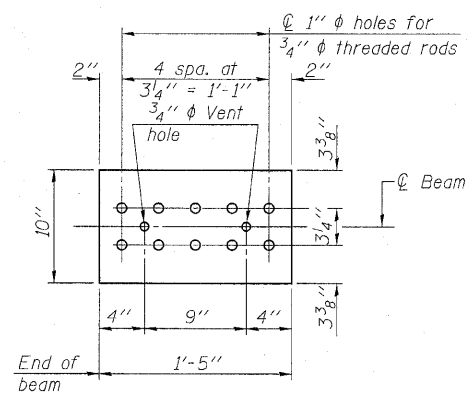
NOTCH DETAIL
(Plan View Top Flange)

NOTES:

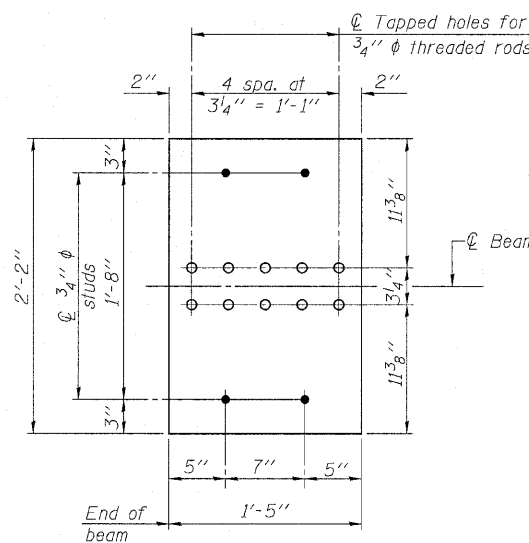
Inserts for 3/4" ϕ threaded dowel rods, when specified, are to be two strut ferrule type for interior beams and single ferrule, flared loop type for exterior beams.
 Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
 Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).
 A minimum 2 1/2" ϕ lifting pin shall be used to engage the lifting loops during handling.
 The top and bottom plates shall be AASHTO M270 Grade 50.
 The bottom plates and studs shall be galvanized according to AASHTO M111. Top plates and threaded rods need not be galvanized.
 Threaded rods shall be ASTM F 1554 Grade 55.



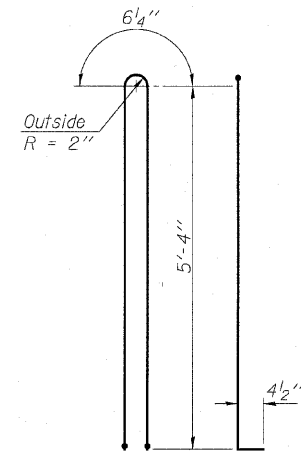
LIFTING LOOP DETAIL



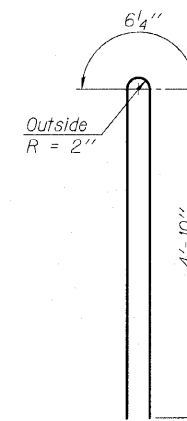
TOP PLATE



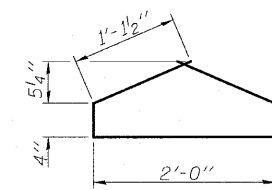
BOTTOM PLATE



BAR G1



BAR G2



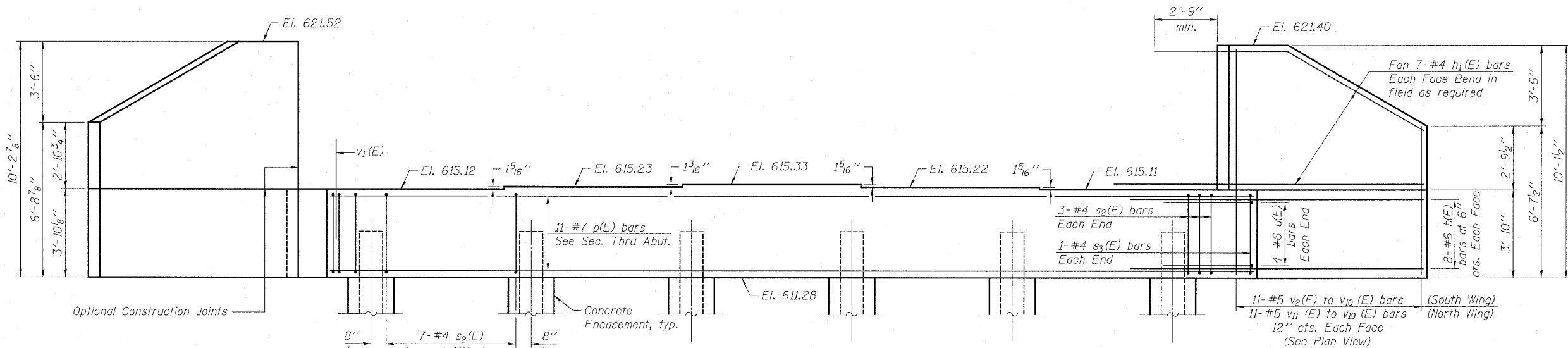
BAR G4

BILL OF MATERIAL

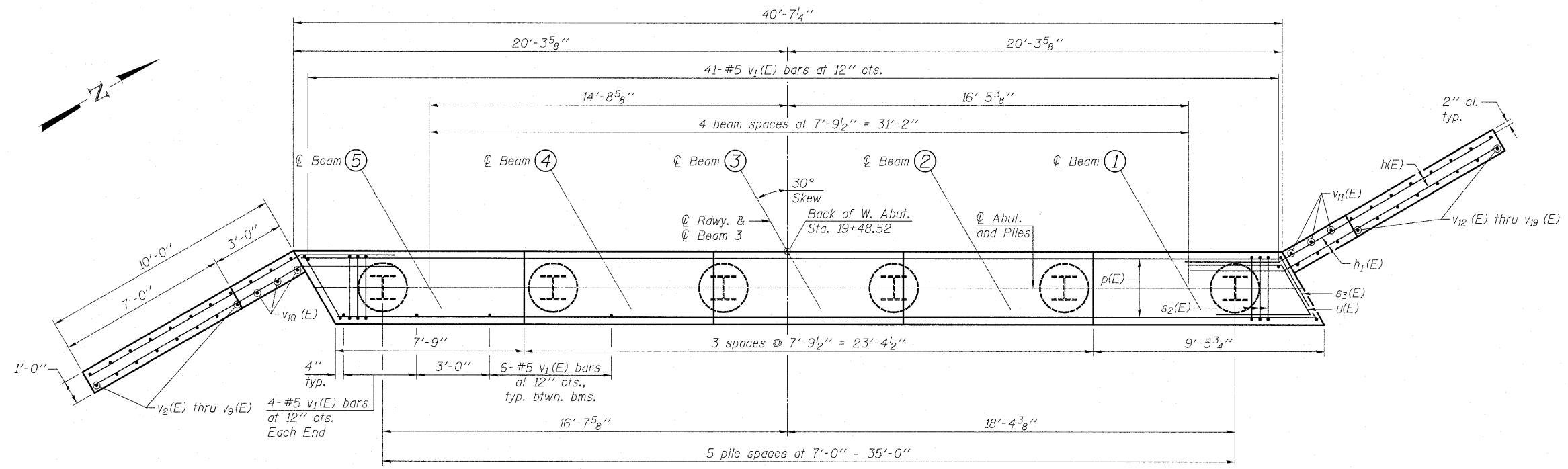
Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams, 63"	Foot	504.0

63" PPC BULB T-BEAM DETAILS
 C.H. 33 OVER TOMAHAWK CREEK
 F.A.S. RTE. 1365 - SEC. 10-00650-00-BR
 LASALLE COUNTY
 STATION 20+00
 S.N. 050-3594
 WHA # 1155D08

STRUCTURAL SHEET NO. 13 OF 18 SHEETS	F.A.S. RTE. 1365	SECTION 10-00650-00-BR	COUNTY LASALLE	TOTAL SHEETS 39	SHEET NO. 26
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-1365(113)		



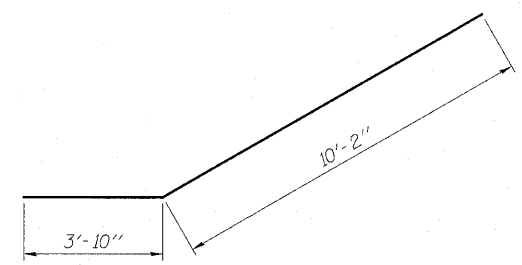
ELEVATION
(Looking West)



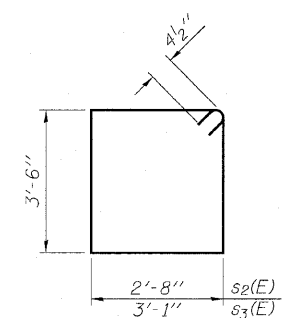
PLAN

PILE DATA

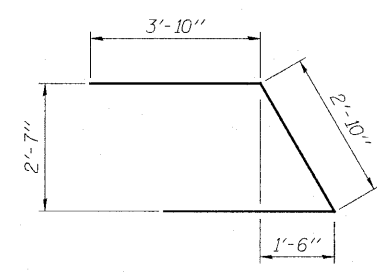
Type: Steel HP12x63
 Nominal Required Bearing: 440 k
 Factored Resistance Available: ... 242 k
 Est. Length: 13'
 No. Production Piles: 5
 No. Test Piles: 1



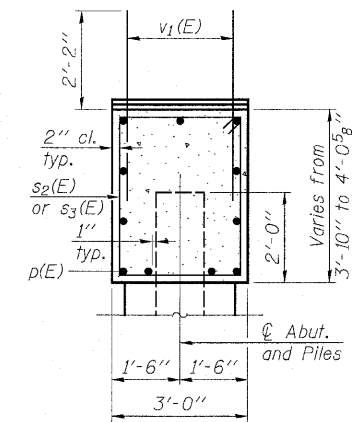
BAR h(E)



BARS s2(E) & s3(E)



BAR u(E)



SEC. THRU ABUT.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#6	14'-0"	✓
h1(E)	28	#4	13'-6"	—
p(E)	11	#7	40'-3"	—
s2(E)	41	#4	13'-1"	□
s3(E)	2	#4	13'-11"	□
u(E)	8	#6	10'-6"	▤
v1(E)	78	#5	4'-4"	—
v2(E)	2	#5	6'-5"	—
v3(E)	2	#5	6'-11"	—
v4(E)	2	#5	7'-5"	—
v5(E)	2	#5	7'-11"	—
v6(E)	2	#5	8'-4"	—
v7(E)	2	#5	8'-10"	—
v8(E)	2	#5	9'-4"	—
v9(E)	2	#5	9'-10"	—
v10(E)	6	#5	9'-11"	—
v11(E)	6	#5	9'-9"	—
v12(E)	2	#5	9'-8"	—
v13(E)	2	#5	9'-3"	—
v14(E)	2	#5	8'-9"	—
v15(E)	2	#5	8'-3"	—
v16(E)	2	#5	7'-9"	—
v17(E)	2	#5	7'-3"	—
v18(E)	2	#5	6'-10"	—
v19(E)	2	#5	6'-4"	—
Porous Granular Embankment, Special		Cu. Yd.	133	
Structure Excavation		Cu. Yd.	310	
Concrete Structures		Cu. Yd.	24.3	
Concrete Encasement		Cu. Yd.	2.1	
Reinforcement Bars, Epoxy Coated		Pound	3,060	
Furnishing Steel Piles HP12x63		Foot	65	
Driving Piles		Foot	65	
Test Pile Steel HP12x63		Each	1	
Geocomposite Wall Drain		Sq. Yd.	65	
Concrete Headwall for Pipe Drains		Each	2	
Pipe Underdrains for Structures 4"		Foot	104	

NOTES:

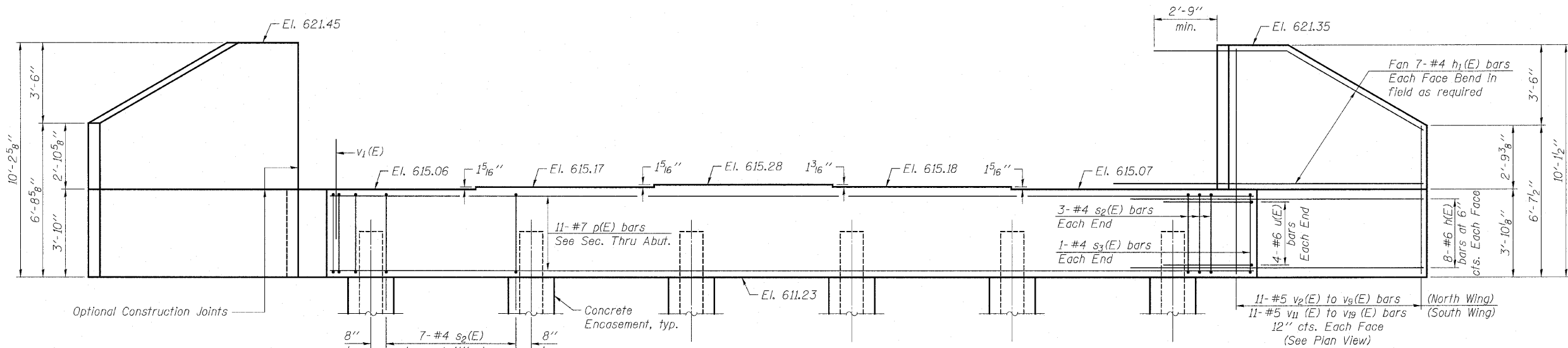
For details of Bar Splicers, see Structural Sheet 17 of 18.
 For details of Piles and Concrete Encasement, see Structural Sheet 16 of 18.
 Pour steps monolithically with cap.
 All exposed edges shall have standard 3/4" chamfers, except as noted.

WEST ABUTMENT DETAILS
C.H. 33 OVER TOMAHAWK CREEK
F.A.S. RTE. 1365 - SEC. 10-00650-00-BR
LASALLE COUNTY
STATION 20+00
S.N. 050-3594
 WHA # 1155D08

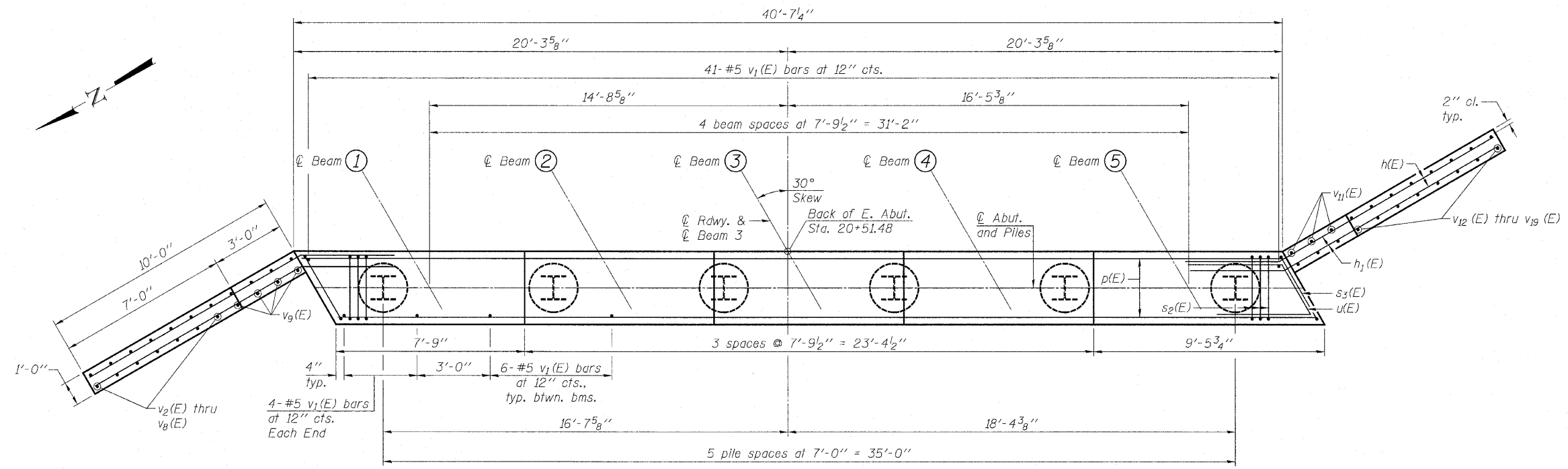
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1365	10-00650-00-BR	LASALLE	39	27
CONTRACT NO. 87448				

FED. ROAD DIST. NO. 7 [ILLINOIS] FED. AID PROJECT BRS-1365(113)

FILE NAME = e:\Struct\1155D08.CH33.Lasalle.County.Dwg.dgn 1155-Manshu.dgn



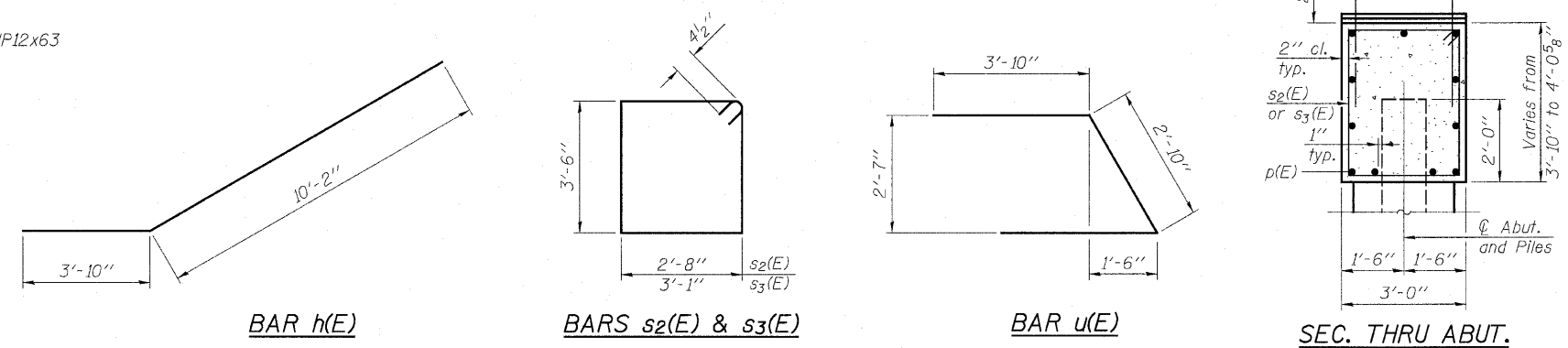
ELEVATION
(Looking East)



PLAN

PILE DATA

Type: Steel HP12x63
 Nominal Required Bearing: 440 k
 Factored Resistance Available: ... 242 k
 Est. Length: 13'
 No. Production Piles: 5
 No. Test Piles: 1



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#6	14'-0"	—
h1(E)	28	#4	13'-6"	—
p(E)	11	#7	40'-3"	—
s2(E)	41	#4	13'-1"	□
s3(E)	2	#4	13'-11"	□
u(E)	8	#6	10'-6"	—
v1(E)	73	#5	4'-4"	—
v2(E)	2	#5	6'-5"	—
v3(E)	2	#5	6'-11"	—
v4(E)	2	#5	7'-5"	—
v5(E)	2	#5	7'-11"	—
v6(E)	2	#5	8'-4"	—
v7(E)	2	#5	8'-10"	—
v8(E)	2	#5	9'-4"	—
v9(E)	8	#5	9'-10"	—
v11(E)	6	#5	9'-9"	—
v12(E)	2	#5	9'-8"	—
v13(E)	2	#5	9'-3"	—
v14(E)	2	#5	8'-9"	—
v15(E)	2	#5	8'-3"	—
v16(E)	2	#5	7'-9"	—
v17(E)	2	#5	7'-3"	—
v18(E)	2	#5	6'-10"	—
v19(E)	2	#5	6'-4"	—
Porous Granular Embankment, Special	Cu. Yd.	131		
Structure Excavation	Cu. Yd.	306		
Concrete Structures	Cu. Yd.	24.3		
Concrete Encasement	Cu. Yd.	2.1		
Reinforcement Bars, Epoxy Coated	Pound	3,060		
Furnishing Steel Piles HP12x63	Foot	65		
Driving Piles	Foot	65		
Test Pile Steel HP12x63	Each	1		
Geocomposite Wall Drain	Sq. Yd.	65		
Concrete Headwall for Pipe Drains	Each	2		
Pipe Underdrains for Structures 4"	Foot	104		

NOTES:

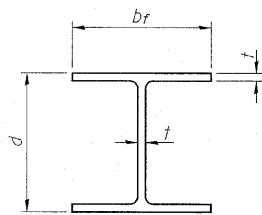
For details of Bar Splicers, see Structural Sheet 17 of 18.
 For details of Piles and Concrete Encasement, see Structural Sheet 16 of 18.
 Pour steps monolithically with cap.
 All exposed edges shall have standard 3/4" chamfers, except as noted.

EAST ABUTMENT DETAILS
C.H. 33 OVER TOMAHAWK CREEK
F.A.S. RTE. 1365 - SEC. 10-00650-00-BR
LASALLE COUNTY
STATION 20+00
S.N. 050-3594
 WHA # 1155D08

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1365	10-00650-00-BR	LASALLE	39	28
CONTRACT NO. 87448				

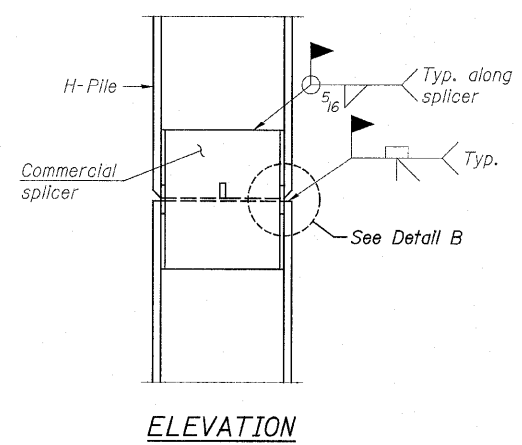
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-1365(113)

FILE NAME = in:Struct. 1155D08 CH33.Lasalle County Drawings 1155.EastAbutment.dgn

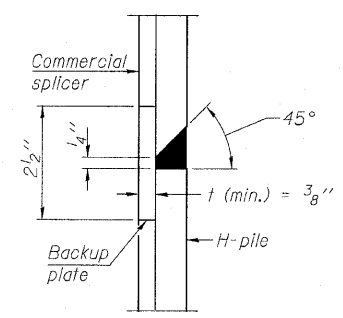


STEEL PILE TABLE

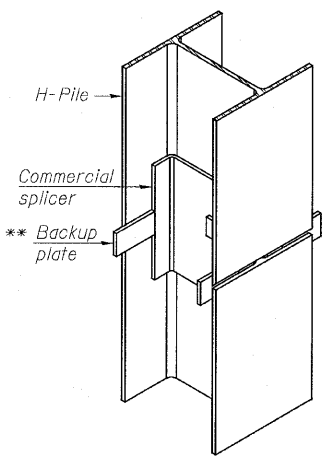
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11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



ELEVATION

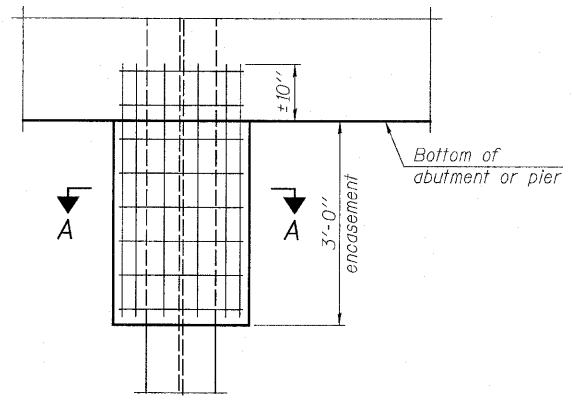


DETAIL B

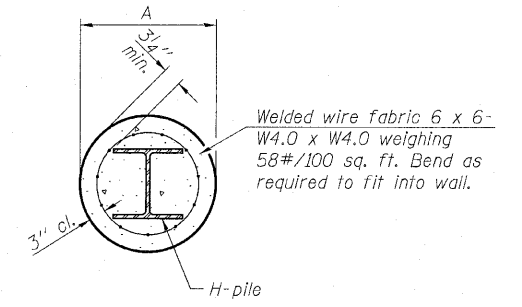


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



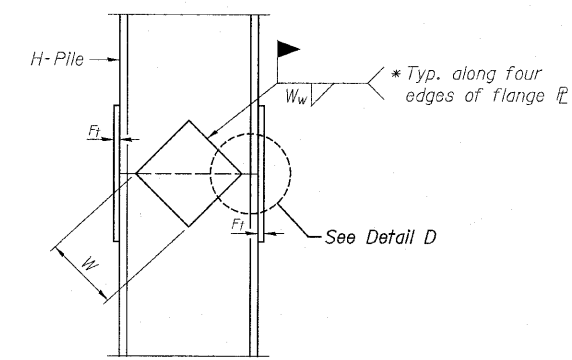
ELEVATION



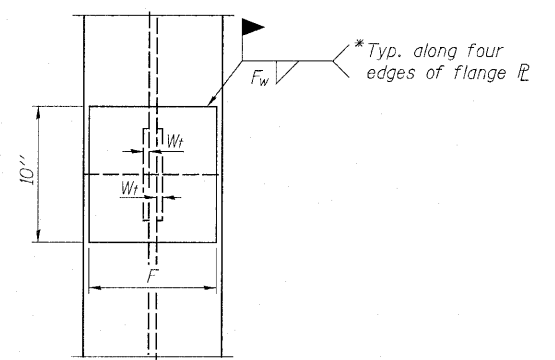
SECTION A-A

PILE ENCASEMENT

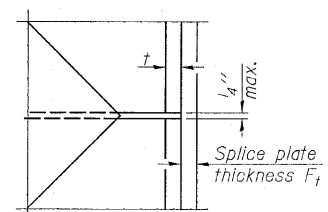
Note: Forms for encasement may be omitted when soil conditions permit.



ELEVATION



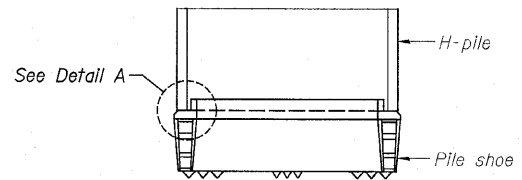
END VIEW



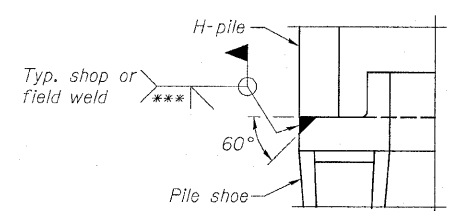
DETAIL D

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

WELDED PLATE FIELD SPLICE

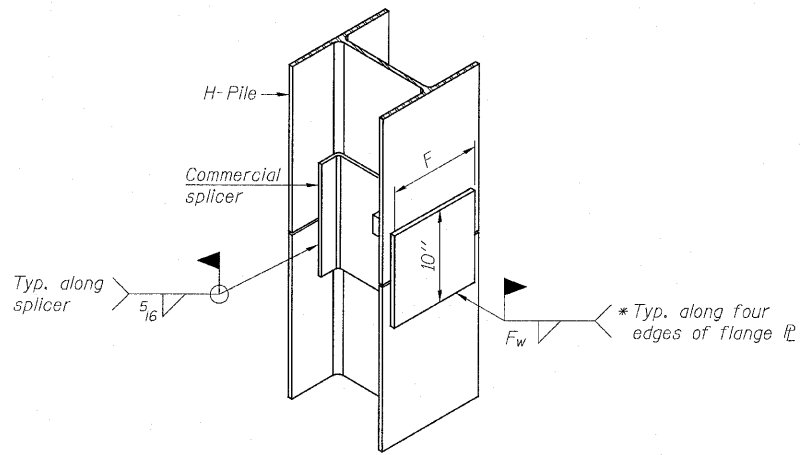


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

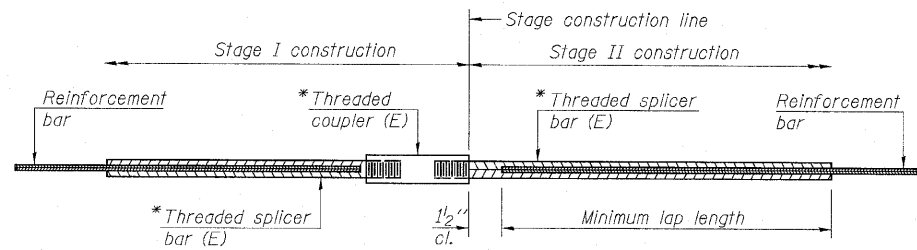
WELDED COMMERCIAL SPLICE ALTERNATE

NOTES:
 The steel H-piles shall be according to AASHTO M270 Grade 50.
 * Interrupt welds 1/4" from end of web and/or each flange.
 ** Remove portions of backup plates that extend outside the flanges.
 *** Weld size per pile shoe manufacturer (5/16" min.).

HP PILE DETAILS
 C.H. 33 OVER TOMAHAWK CREEK
 F.A.S. RTE. 1365 - SEC. 10-00650-00-BR
 LASALLE COUNTY
 STATION 20+00
 S.N. 050-3594
 WHA # 1155D08

STRUCTURAL SHEET NO. 16 OF 18 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1365	10-00650-00-BR	LASALLE	39	29
			CONTRACT NO. 87448		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BR5-1365(113)					

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STANDARD BAR SPLICER ASSEMBLY

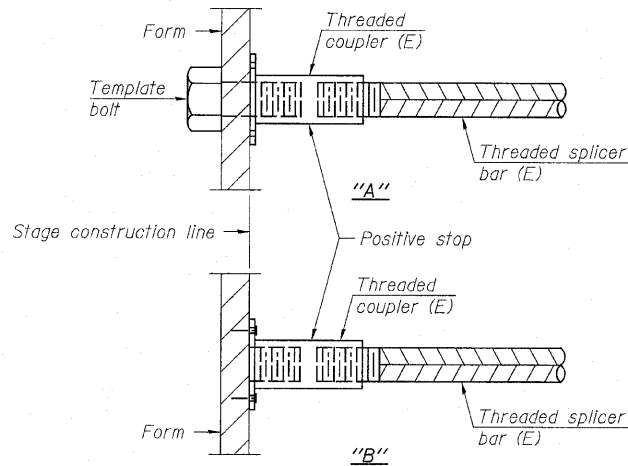
Minimum Lap Lengths				
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4
3, 4	1'-5"	1'-11"	2'-1"	2'-4"
5	1'-9"	2'-5"	2'-7"	2'-11"
6	2'-1"	2'-11"	3'-1"	3'-6"
7	2'-9"	3'-10"	4'-2"	4'-8"
8	3'-8"	5'-1"	5'-5"	6'-2"
9	4'-7"	6'-5"	6'-10"	7'-9"

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

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

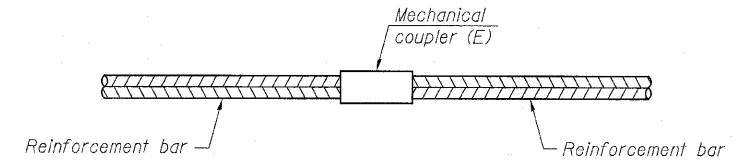
*Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



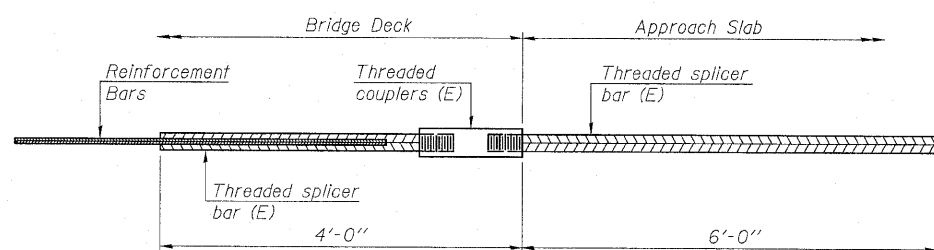
INSTALLATION AND SETTING METHODS

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



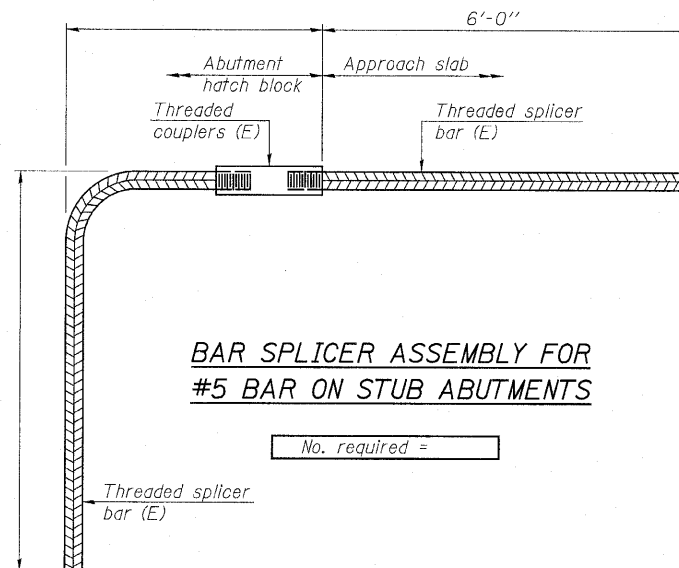
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



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

No. required = 68



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES:

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

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
C.H. 33 OVER TOMAHAWK CREEK
F.A.S. RTE. 1365 - SEC. 10-00650-00-BR
LASALLE COUNTY
STATION 20+00
S.N. 050-3594
 WHA # 1155D08

STRUCTURAL SHEET NO. 17 OF 18 SHEETS	F.A.S. RTE. 1365	SECTION 10-00650-00-BR	COUNTY LASALLE	TOTAL SHEETS 39	SHEET NO. 30
	CONTRACT NO. 87448			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-1365(113)	

FILE NAME: s:\splicers\1155\08\CH33\Lasalle County Drawings\1155 Bar Splicer.dgn

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG
Sheet 1 of 2
Boring No. B-1
Surface Elev. 618.78
Auger Depth 31' Rotary Depth NA
Start Date 02/13/09 Finish Date 02/13/09

Client: Willet Hoffmann & Associates
Project Name: CH-33 Over Tomahawk Creek (S.N. 050-3056)
Project Site: Dimmick Twp. LaSalle County, Illinois

Drilled By: Randy Safanski
Diedrich D-120

Location: 7' South Of Centerline Of Roadway And 38' West
Of Center Of Existing Bridge

DEPTH REL. TO SURFACE	DESCRIPTION OF MATERIALS	Grain Size in Feet	SAMPLES					DRILLED BY
			Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	
618.78								REMARKS
617.78		1						
616.78		2						
615.78		3	1 SS	1.1	8	5	16	
614.78	Stiff Brownish Gray And Gray Clay To Silty Clay (Fill)	4						
613.78		5						
612.78		6	2 SS	1.0	9	B	22	
611.78		7						
610.78		8	3 SS	1.0	8	B	23	
609.78		9						
608.78	Medium Gray Sand	10						
607.78		11	4 SS		12		12	
606.78		12						
605.78		13	5 SS		6			
604.78	Loose Gray Sand	14						
603.78		15	6 SS		5			
602.78		16						
601.78	Very Dense Brown Coarse Gravel With Cobbles	17	7 SS		74			
600.78		18						
599.78	Very Dense White Sandstone	19						
598.78		20	8 SS		100		10*	

Groundwater Data: Static water level after auger removal - elevation 605.5.
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG
Sheet 2 of 2
Boring No. B-1
Surface Elev. 618.78
Auger Depth 31' Rotary Depth NA
Start Date 02/13/09 Finish Date 02/13/09

Client: Willet Hoffmann & Associates
Project Name: CH-33 Over Tomahawk Creek (S.N. 050-3056)
Project Site: Dimmick Twp. LaSalle County, Illinois

Drilled By: Randy Safanski
Diedrich D-120

Location: 7' South Of Centerline Of Roadway And 38' West
Of Center Of Existing Bridge

DEPTH REL. TO SURFACE	DESCRIPTION OF MATERIALS	Grain Size in Feet	SAMPLES					DRILLED BY
			Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	
597.78								REMARKS
596.78		22						
595.78		23	9 SS		100	4*		
594.78		24						
593.78		25	10 SS		100	5*		
592.78	Very Dense White Sandstone	26						
591.78		27						
590.78		28	11 SS		100	7*		
589.78		29						
588.78		30	12 SS		100	2*		
587.78		31						
586.78	Bottom of Boring	32						
585.78		33						
584.78		34						
583.78		35						
582.78		36						
581.78		37						
580.78		38						
579.78		39						
578.78		40						
577.78		41						

Groundwater Data: Static water level after auger removal - elevation 605.5.
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG
Sheet 1 of 2
Boring No. B-2
Surface Elev. 618.75
Auger Depth 31' Rotary Depth NA
Start Date 02/13/09 Finish Date 02/13/09

Client: Willet Hoffmann & Associates
Project Name: CH-33 Over Tomahawk Creek (S.N. 050-3056)
Project Site: Dimmick Twp. LaSalle County, Illinois

Drilled By: Randy Safanski
Diedrich D-120

Location: 7' North Of Centerline Of Roadway And 37' East
Of Center Of Existing Bridge

DEPTH REL. TO SURFACE	DESCRIPTION OF MATERIALS	Grain Size in Feet	SAMPLES					DRILLED BY
			Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	
618.75								REMARKS
617.75		1						
616.75		2						
615.75	Medium Brown Sandy To Gravelly Loam (Fill)	3	1 SS		10		14	
614.75		4						
613.75		5	2 SS		10		12	
612.75		6						
611.75	Loose Brown Sand (Fill)	7						
610.75		8	3 SS		6		9	
609.75		9						
608.75		10	4 SS		7			
607.75		11						
606.75		12						
605.75	Loose Gray Sand	13	5 SS		5			
604.75		14						
603.75		15						
602.75		16	6 SS		5			
601.75		17						
600.75		18	7 SS		67			
599.75	Very Dense Pale Gray Sand	19						
598.75		20	8 SS		100	9*		
597.75								
596.75	Very Dense White Sandstone							

Groundwater Data: Static water level after auger removal - elevation 605.5.
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG
Sheet 2 of 2
Boring No. B-2
Surface Elev. 618.75
Auger Depth 31' Rotary Depth NA
Start Date 02/13/09 Finish Date 02/13/09

Client: Willet Hoffmann & Associates
Project Name: CH-33 Over Tomahawk Creek (S.N. 050-3056)
Project Site: Dimmick Twp. LaSalle County, Illinois

Drilled By: Randy Safanski
Diedrich D-120

Location: 7' North Of Centerline Of Roadway And 37' East
Of Center Of Existing Bridge

DEPTH REL. TO SURFACE	DESCRIPTION OF MATERIALS	Grain Size in Feet	SAMPLES					DRILLED BY
			Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	
597.75								REMARKS
596.75		22						
595.75		23	9 SS		100	5*		
594.75		24						
593.75		25	10 SS		100	7*		
592.75	Very Dense White Sandstone	26						
591.75		27						
590.75		28	11 SS		100	4*		
589.75		29						
588.75		30	12 SS		100	3*		
587.75		31						
586.75	Bottom of Boring	32						
585.75		33						
584.75		34						
583.75		35						
582.75		36						
581.75		37						
580.75		38						
579.75		39						
578.75		40						
577.75		41						

Groundwater Data: Static water level after auger removal - elevation 605.5.
Comments:

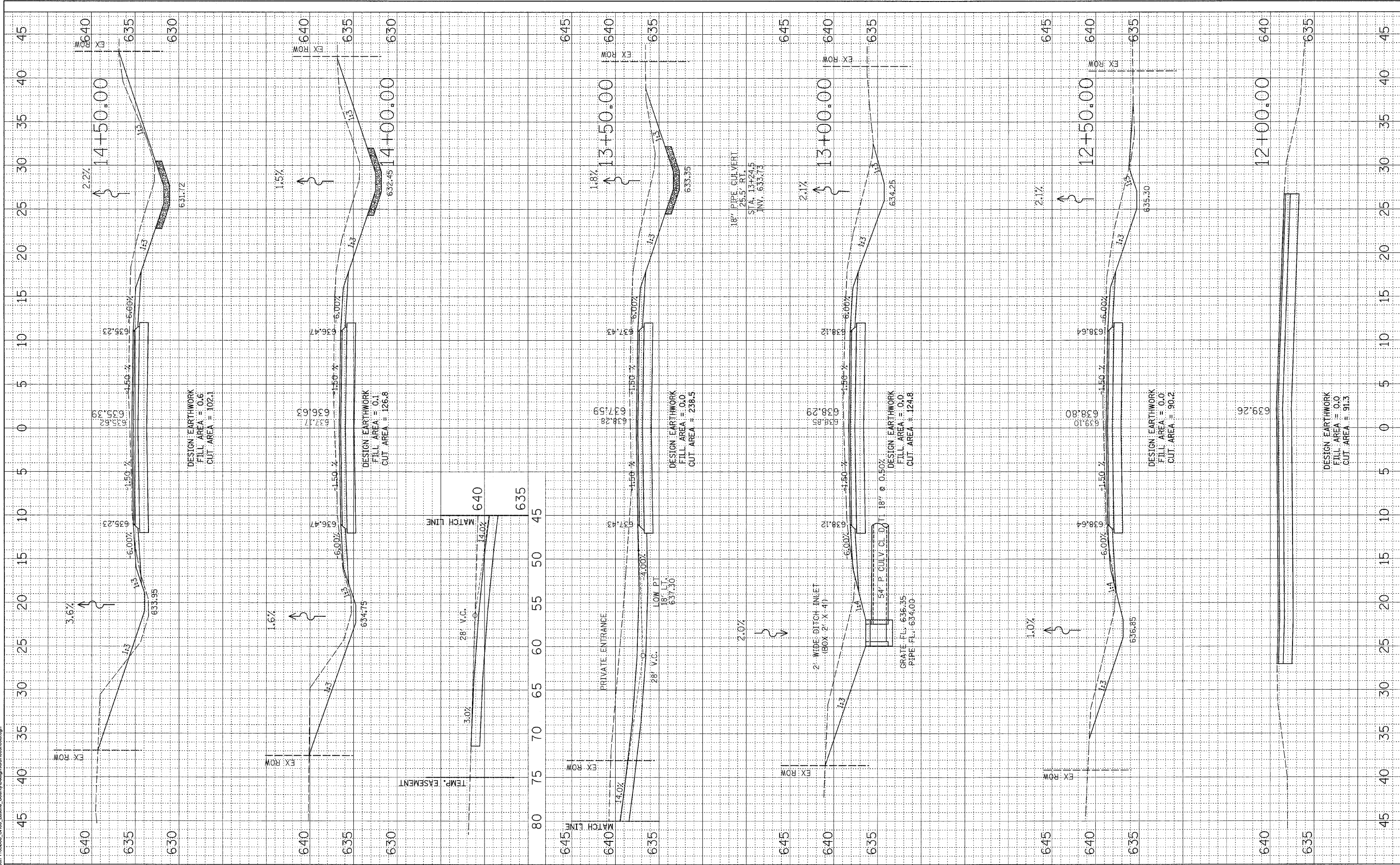
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C.H. 33 OVER TOMAHAWK CREEK
F.A.S. RTE. 1365 - SEC. 10-00650-00-BR
LASALLE COUNTY
STATION 20+00
S.N. 050-3594
WHA # 1155D08

STRUCTURAL SHEET NO. 18 OF 18 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1365	10-00650-00-BR	LASALLE	39	31
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-1365(113)		
			CONTRACT NO. 87448		

BY _____ DATE _____
 SURVEYED _____
 PLOTTED _____
 SURVEY _____
 NOTE BOOK _____
 REPLICATE _____
 AREAS CHECKED _____
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BY _____ DATE _____
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 SURVEY _____
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 www.willetthofmann.com

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LASALLE COUNTY
COUNTY HIGHWAY 33
TOMAHAWK BRIDGE REPLACEMENT

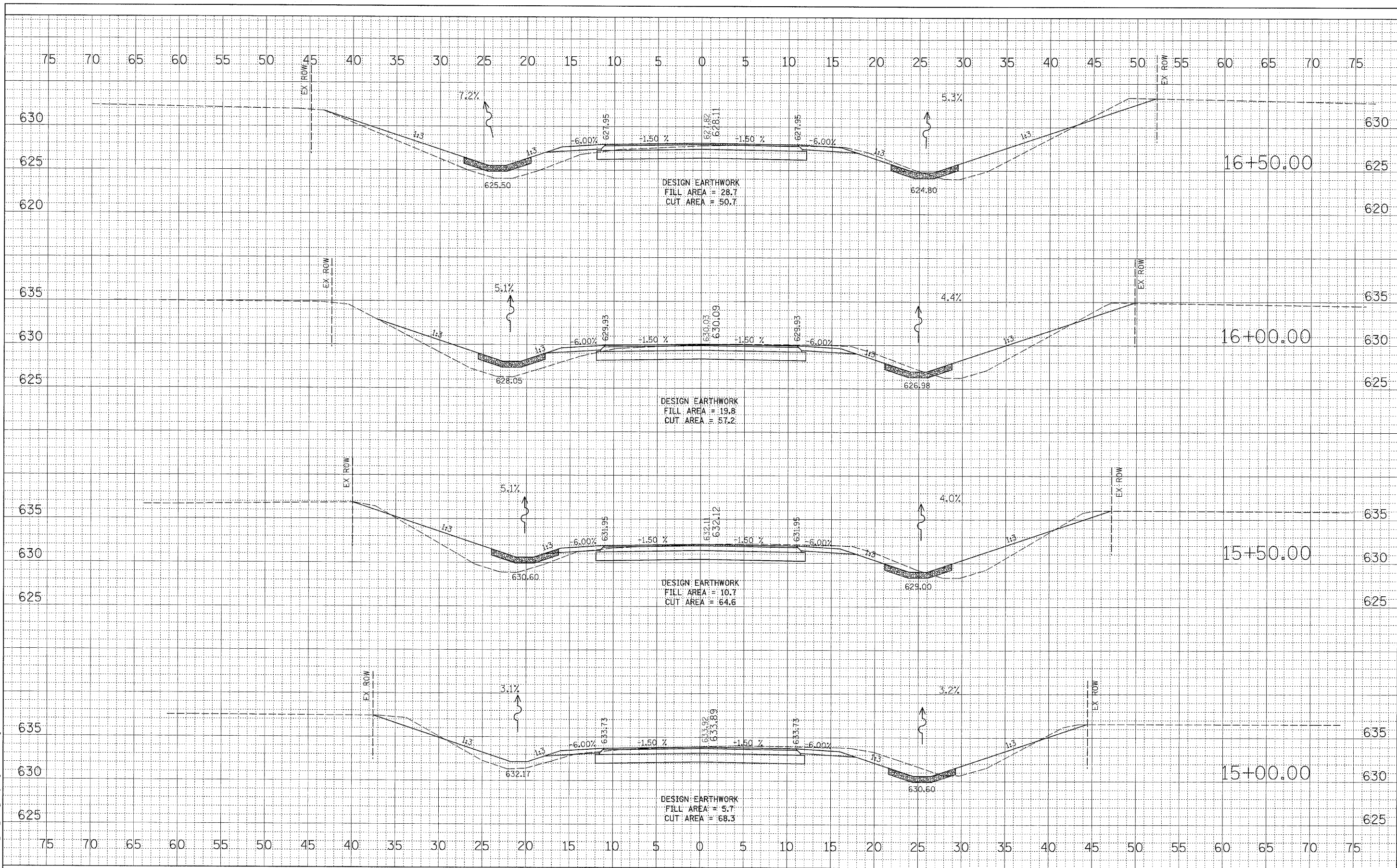
C.H. 33 - CROSS SECTIONS

F.A.S. R.T.E. 1365	SECTION 10-00650-00-BR	COUNTY LASALLE	TOTAL SHEETS 39	SHEET NO. 32
STA. 11+91.47 TO STA. 14+00.00		CONTRACT NO. 87448		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BR5-1365(113)		

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NOTE BOOK	
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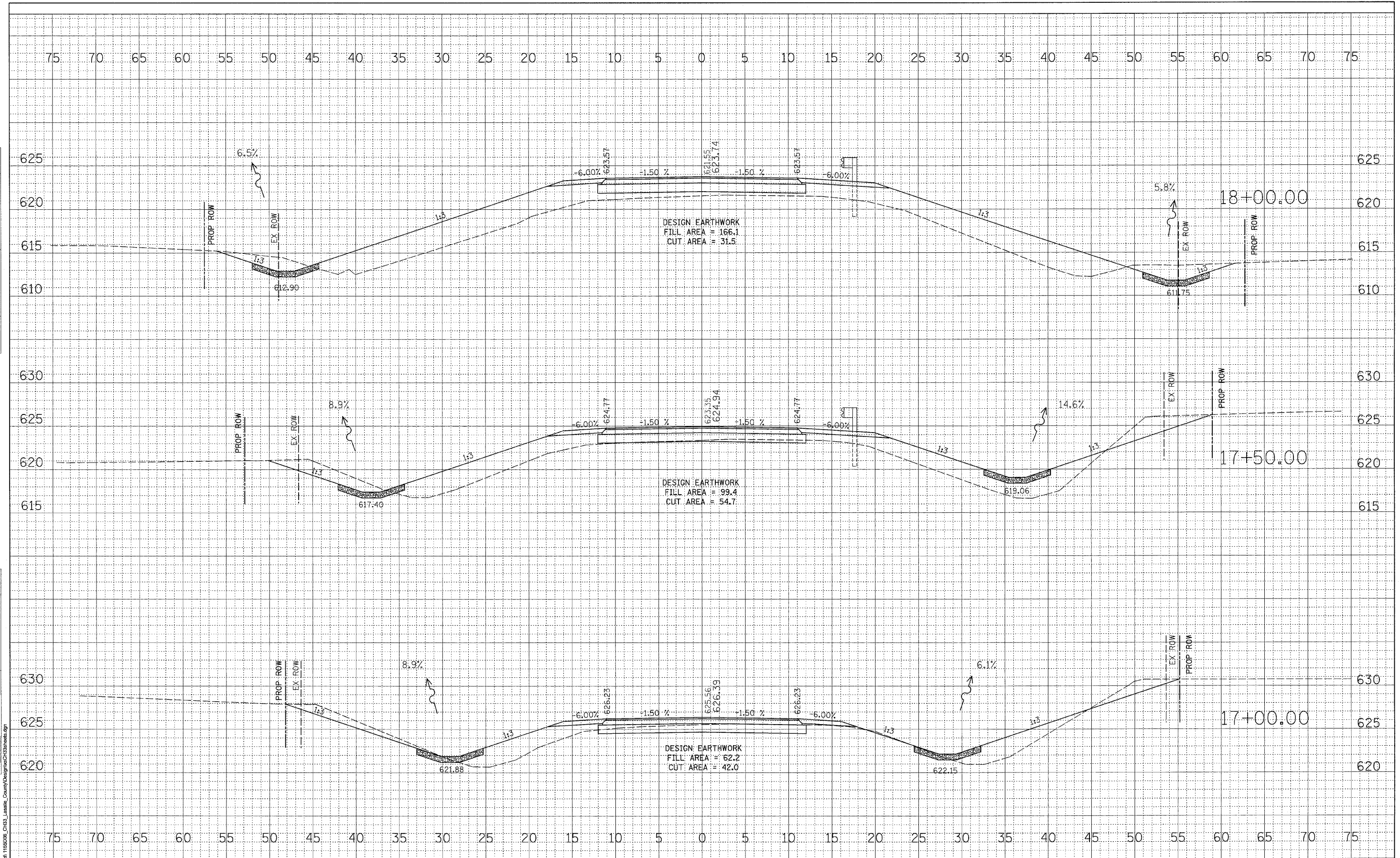
LASALLE COUNTY
 COUNTY HIGHWAY 33
 TOMAHAWK BRIDGE REPLACEMENT

C.H. 33 - Cross Sections

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1365	10-00650-00-BR	LASALLE	39	33
STA. 15+00.00 TO STA. 16+50.00		CONTRACT NO. 87448		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BR5-1365(113)		

DATE	
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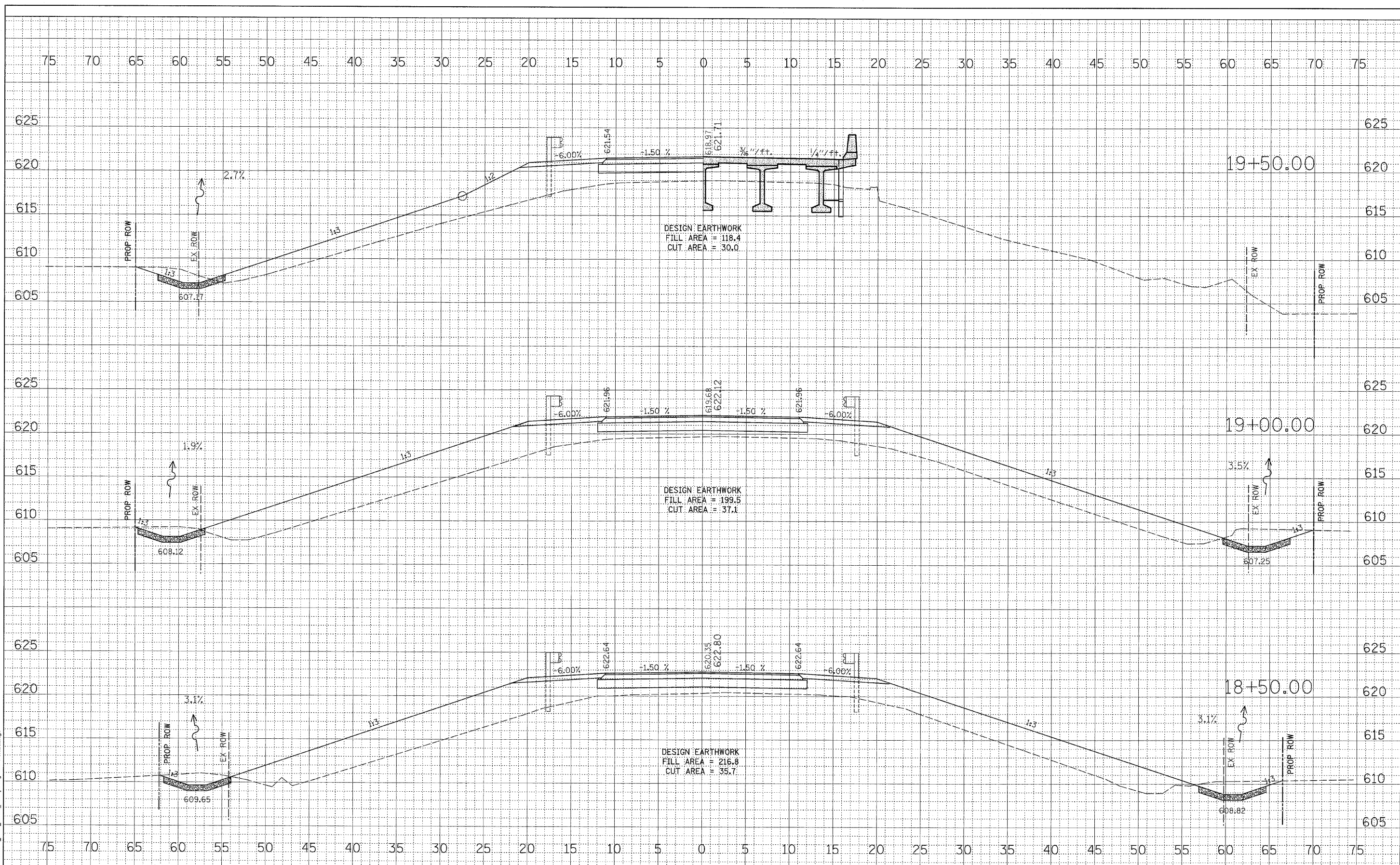
LASALLE COUNTY
COUNTY HIGHWAY 33
TOMAHAWK BRIDGE REPLACEMENT

C.H. 33 - Cross Sections

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1365	10-00650-00-BR	LASALLE	39	34
STA. 17+00.00 TO STA. 18+00.00		CONTRACT NO. 87448		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-1365(113)		

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



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	DATE -	REVISED -

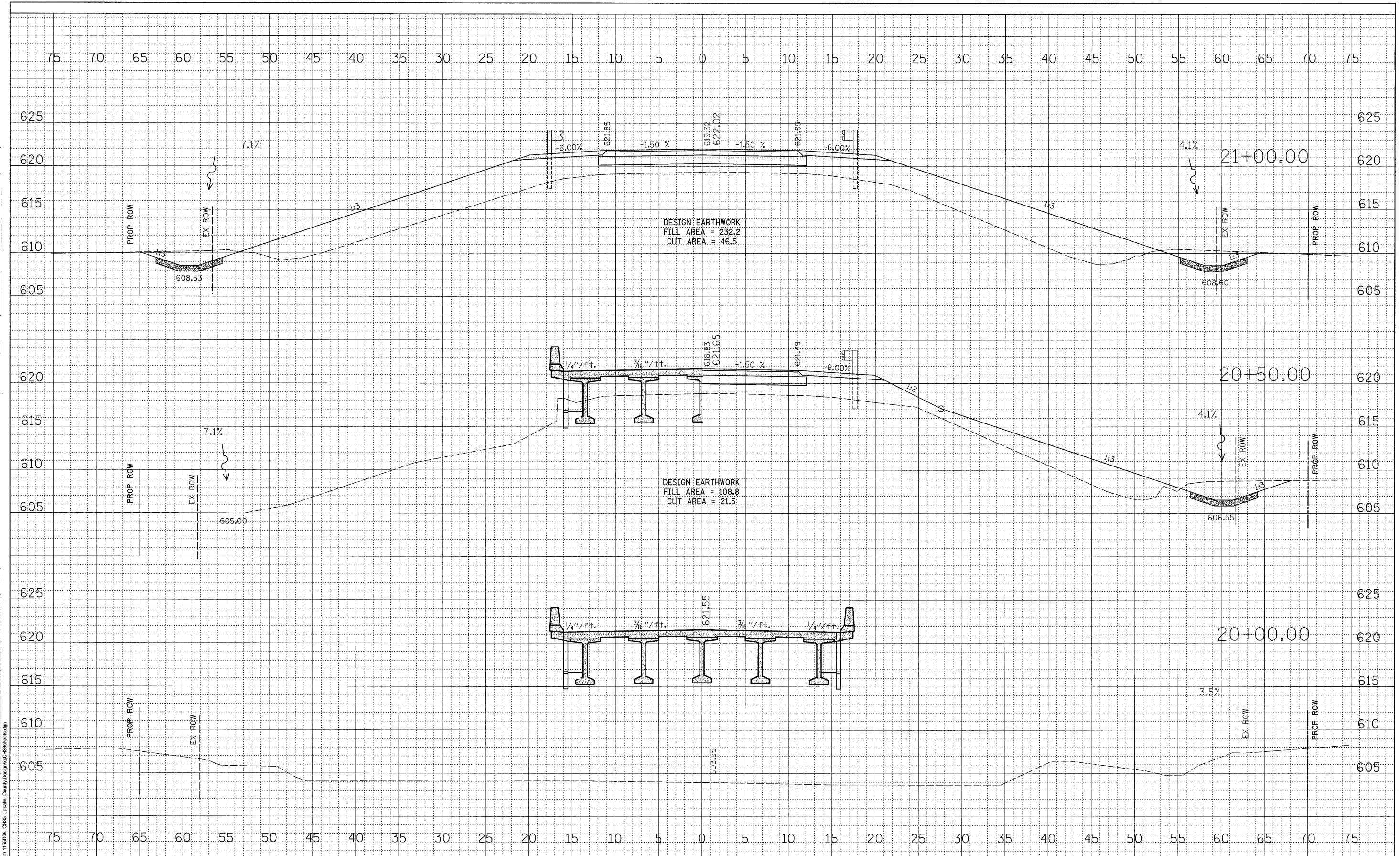
LASALLE COUNTY
COUNTY HIGHWAY 33
TOMAHAWK BRIDGE REPLACEMENT

C.H. 33 - Cross Sections

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1365	10-00650-00-BR	LASALLE	39	35
STA. 18+50.00 TO STA. 19+50.00		CONTRACT NO. B7448		
FED. ROAD DIST. NO. 7 [ILLINOIS]		FED. AID PROJECT BRS-1365(13)		

DATE	
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NOTE BOOK	PLOTTED
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	AREAS CHECKED

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



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 Phone 815-294-3391 Fax 815-294-3385
 Design Firm # 184-00918
 www.willett-hofmann.com

USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -
	DATE -	REVISED -

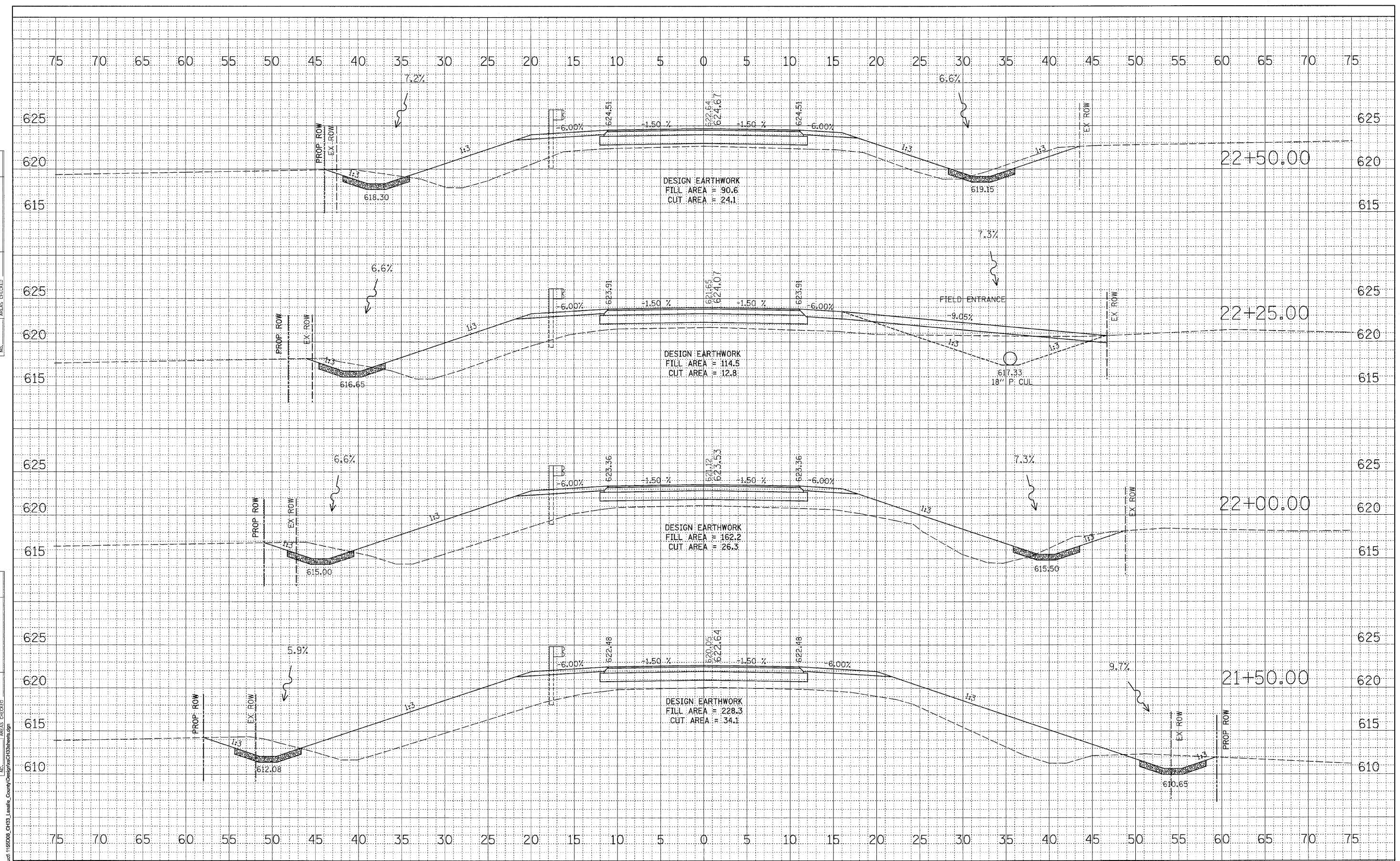
LASALLE COUNTY
COUNTY HIGHWAY 33
TOMAHAWK BRIDGE REPLACEMENT

C.H. 33 - Cross Sections

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1365	10-00650-00-BR	LASALLE	39	36
STA. 20+00.00 TO STA. 21+00.00		CONTRACT NO. 87448		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BR5-1365(113)		

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



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LASALLE COUNTY
COUNTY HIGHWAY 33
TOMAHAWK BRIDGE REPLACEMENT

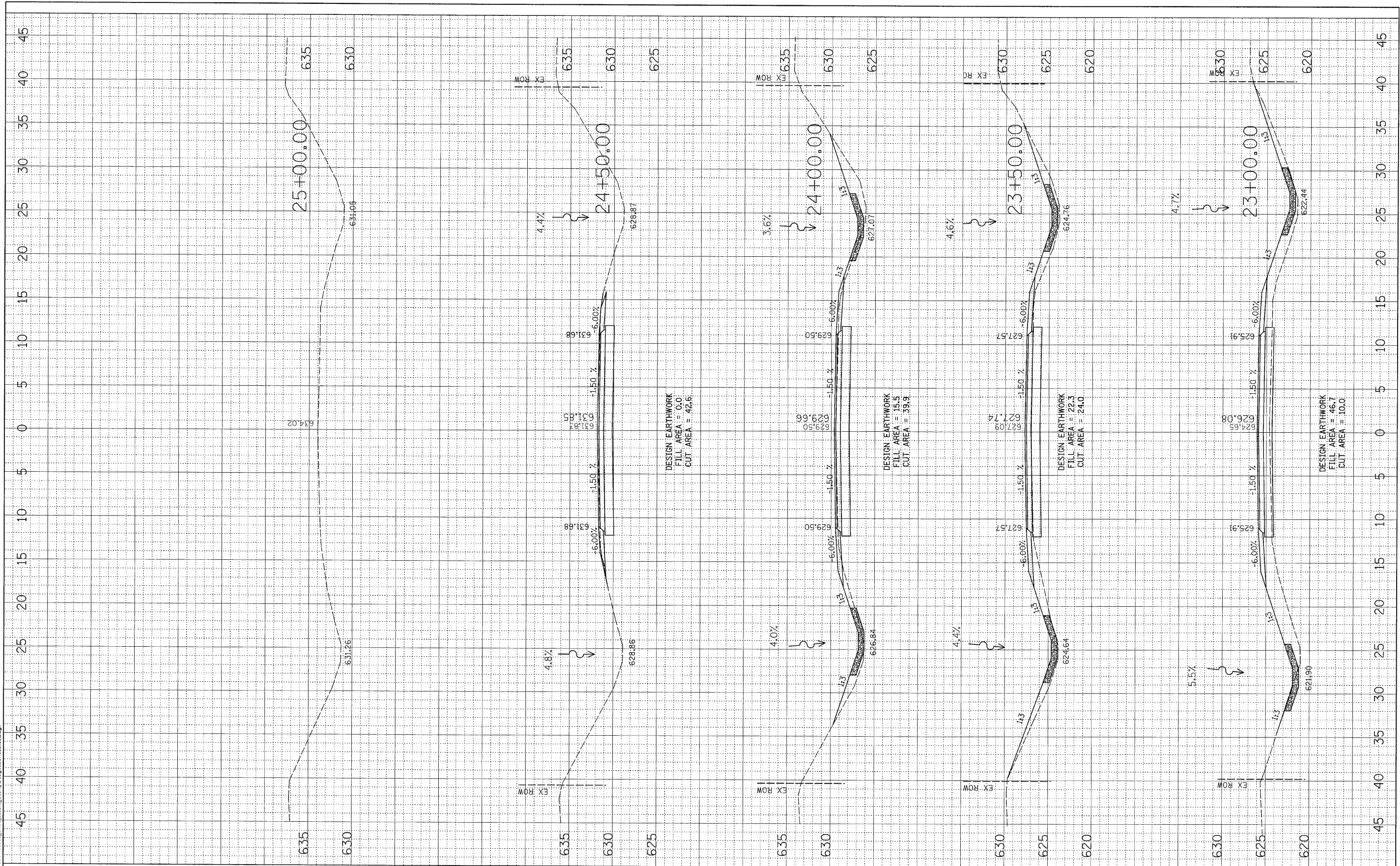
C.H. 33 - Cross Sections

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1365	10-00650-00-BR	LASALLE	39	37
STA. 21+50.00 TO STA. 22+50.00		CONTRACT NO. 87448		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-1365(113)		

FINAL SURVEY	SURVIVED	BY	DATE
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CONSULTING ENGINEERS
 809 East Second Street Dixon, IL 61021
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LASALLE COUNTY
COUNTY HIGHWAY 33
TOMAHAWK BRIDGE REPLACEMENT

C.H. 33 - CROSS SECTIONS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1365	10-00650-00-BR	LASALLE	39	38
STA. 23+00.00 TO STA. 25+00.00		CONTRACT NO. 87448		
FED. ROAD DIST. NO. 7 (ILLINOIS)		FED. AID PROJECT BRS-1365(13)		

