F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5200	12-00529-00-BR	WINNEBAGO	20	1
	ILLINOIS	CONTRACT NO. 85627		

01-15-2016 LETTING ITEM 117

INDEX OF SHEETS

LIST OF HIGHWAY STANDARDS

280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
630001-10	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-08	TRAFFIC BARRIER TERMINAL TYPE 6A
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
667101-02	PERMANENT SURVEY MARKERS
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS = 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701901-04	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGN, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORTS
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS AND MARKERS)
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 22-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (2L, 2W, ROAD CLOSED TO THRU TRAFFIC)

NOTE
SEE SHEET 2 FOR NAMES AND ADDRESSES OF UTILITY OWNERS.

UTILITY NOTE

THE LOCATIONS OF THOSE BURIED AND ABOVEGROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVEGROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED AMONG THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS, ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

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

CONTRACT NO. 85627

LAYOUT	SMK	01/13/11
DRAWN	JSM	08/21/15
REVIEWED	DPA	08/21/15

9/2/2015
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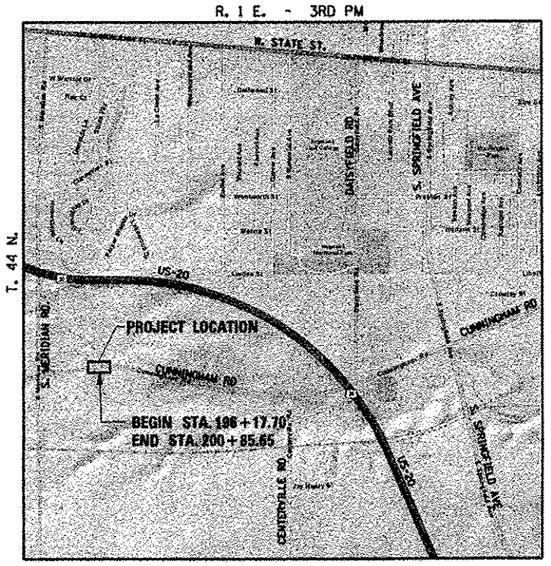
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED HIGHWAY BRIDGE PROGRAM

FAU 5200 (CUNNINGHAM ROAD BRIDGE) over S. BRANCH OF KENT CREEK

SECTION 12-00529-00-BR
PROJECT #BRM-5099(113)
WINNEBAGO COUNTY
JOB NUMBER C-92-045-14
CONTRACT#85627



NET LENGTH = 467.95 FEET (0.07 MILES)

LOCATION MAP

PROPOSED IMPROVEMENTS:
REMOVAL AND REPLACEMENT OF THE EXISTING BRIDGE CARRYING FA URBAN ROUTE 5200 (CUNNINGHAM RD.) OVER BRANCH OF KENT CREEK AT STA. 198+55.5.
NEW STRUCTURE CONSISTS OF A THREE SPAN CONCRETE SLAB SUPERSTRUCTURE ON PILE-BENT PIERS AND ABUTMENTS. SN 101-3104

TRAFFIC DATA:

FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL (URBAN)
2015 ADT : 1850
DESIGN SPEED : 45 MPH

PLAN SHEET SCALES: HORIZ. = 20, VERT. = 5

CROSS SECTION SHT. SCALES: HORIZ. = 10, VERT. = 5

LOCATION OF SECTION INDICATED THUS: –■–

APPROVED October 21, 2015
WINNEBAGO COUNTY ENGINEER

PASSED November 9, 2015
DISTRICT 2 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW November 9, 2015
DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DAVID P. ALMY, JR.
062-055651
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS
SIGNATURE
8-21-2015
DATE
LIC. EXP. DATE 11-30-2015

HANSON

HANSON PROFESSIONAL SERVICES INC.
6775 FINCHAM DRIVE
ROCKFORD, IL 61108-3001

ILLINOIS DESIGN FIRM LICENSE NO: 184-001-084

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

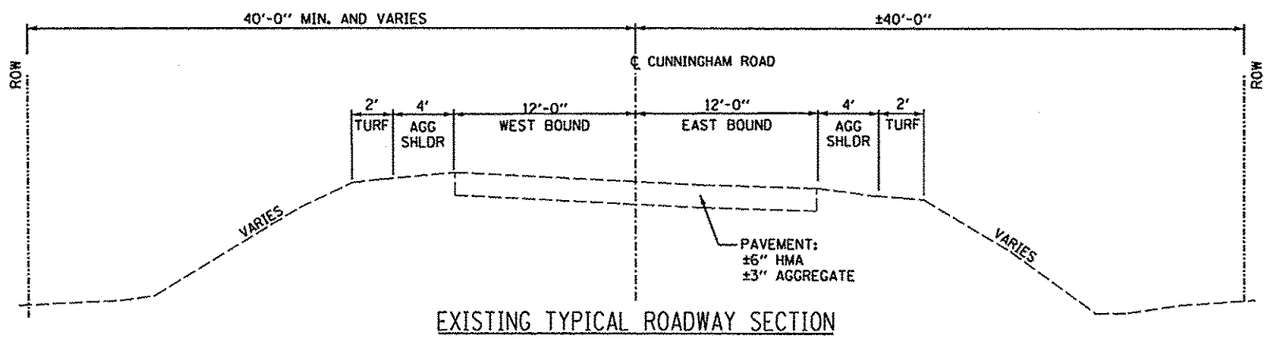
85627

GENERAL NOTES

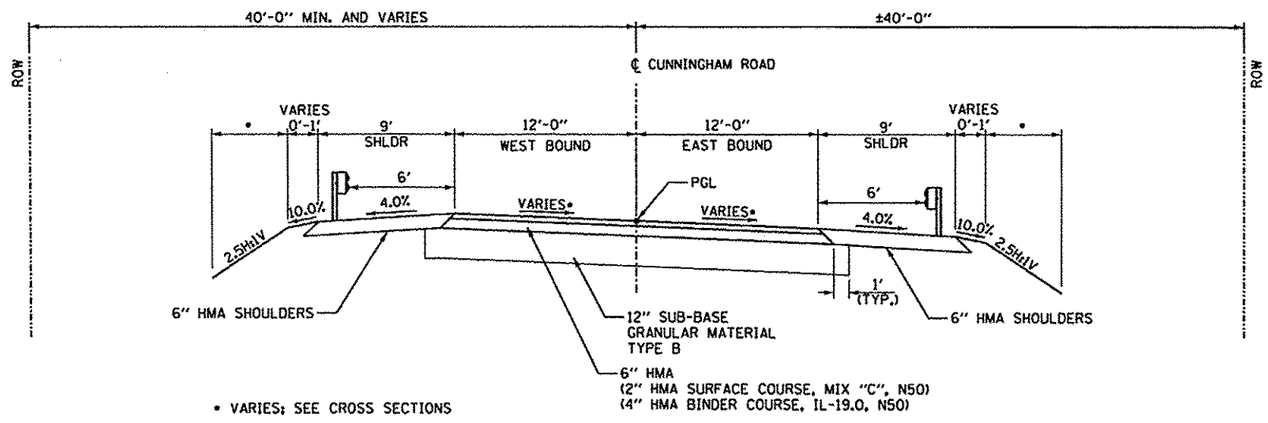
1. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, AND SIZE OF EXISTING AND PROPOSED STORM SEWER LINES PRIOR TO ORDERING AND FABRICATION OF DRAINAGE STRUCTURES OR SEWERS.
2. WHERE SECTION, SUBSECTION, SUBDIVISION, OR PROPERTY MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS UNTIL AN OWNER OR AUTHORIZED SURVEYOR HAS WITNESSED OR REFERENCED THEIR LOCATION.
3. CONTRACTORS BIDDING THIS PROJECT SHALL VISIT THE SITE BEFORE BIDDING.
4. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCY IMMEDIATELY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO ANY UTILITY LINES AND EXISTING IMPROVEMENTS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THE WORK.
6. ALL SECTIONS, DETAILS, AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE, UNLESS OTHERWISE SHOWN.
7. ANY EXISTING ROADWAY SIGNS OR POSTS IN CONFLICT WITH CONSTRUCTION ACTIVITY OR LISTED AS BEING REMOVED AND/OR RELOCATED MUST BE CAREFULLY REMOVED AND/OR REINSTALLED BY THE CONTRACTOR. ANY SIGNS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SIGNS TO BE REINSTALLED SHALL BE ATTACHED TO NEW POSTS. THE REMOVAL AND DISPOSAL OF EXISTING POSTS IS CONSIDERED INCIDENTAL TO CONSTRUCTION. SIGNS TO BE REMOVED (BUT NOT REINSTALLED) SHALL BE SALVAGED AND REMAIN THE PROPERTY OF THE WINNEBAGO COUNTY HIGHWAY DEPARTMENT.
8. ADJUSTMENT OF PROPOSED GRADES TO MATCH EXISTING ENTRANCES OR OTHER FIELD CONDITIONS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
9. ANY DAMAGE TO THE EXISTING PAVEMENT TO REMAIN DURING ANY CONSTRUCTION ACTIVITY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
10. ALL ELEVATIONS, STATIONS, AND OFFSETS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
11. THE CONSTRUCTION SHALL BE GOVERNED BY THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", CURRENT EDITION.
12. ALL REFERENCES TO THE "DEPARTMENT" OR "ENGINEER" IN THE I.D.O.T. STANDARD SPECIFICATIONS SHALL BE CONSTRUED TO MEAN THE OWNER OR HIS AGENT.
13. ALL PAVEMENT REMOVALS SHALL BE FULL DEPTH SAW CUT AT THE LIMITS TO BE REMOVED.
14. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.
15. ACCESS SHALL BE MAINTAINED TO ALL PROPERTIES DURING ALL STAGES OF CONSTRUCTION.
16. EXCESS MATERIAL, IF NOT USED FOR OTHER ON-SITE PURPOSES, SHALL BE HAULED OFF-SITE AT CONTRACTOR'S EXPENSE.
17. THE WORK AREA SHALL BE POSITIVELY DRAINED DURING CONSTRUCTION. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION, AND TRAFFIC.
18. THE CONTRACTOR SHALL USE ANY ON SITE MATERIAL DEEMED SUITABLE BY THE ENGINEER BEFORE ANY NEW FILL IS HAULED TO THE SITE.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
20. THERE IS ESTIMATED TO BE AN EXCESS OF EARTH EXCAVATION FROM THIS PROJECT. THE ESTIMATED AMOUNT OF EXCESS IS 302 CU. YD. TO BE DISPOSED OF OFFSITE AT CONTRACTOR'S EXPENSE.
21. THE FINAL TOP FOUR INCHES OF SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE CAPABLE OF SUPPORTING VEGETATION. THE SOIL MUST BE FROM A HORIZON (ZERO TO 2' DEEP) OF SOIL PROFILES OF LOCAL SOILS. THE COST OF THIS WORK SHALL BE INCLUDED IN EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
22. ORANGE CONSTRUCTION FENCE SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE PLANS TO DELINEATE THE LOCATION OF THE WETLAND AREA. THIS WORK WILL NOT BE MEASURED FOR PAYMENT BUT SHALL BE CONSIDERED AS INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION.

UTILITY CONTACTS

UTILITY NAME	TYPE	PHONE NUMBER
COMED 123 ENERGY AVENUE ROCKFORD, IL 61109	ELECTRIC	(815) 490-2320
NICOR 4651 LINDEN ROAD ROCKFORD, IL 61109	GAS	(815) 965-5416
COMCAST	CABLE	(224) 229-3035



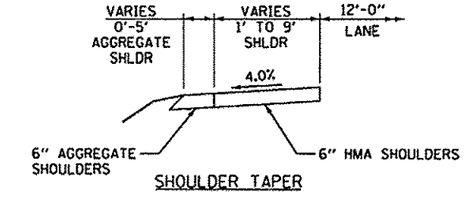
EXISTING TYPICAL ROADWAY SECTION



• VARIES; SEE CROSS SECTIONS

NOTE:
SHOULDER WIDENING ONLY
STA. 199+90 TO STA. 200+86
SEE CROSS SECTIONS

TYPICAL SECTION
STA. 196+17.70 TO STA. 198+19.50
STA. 198+91.50 TO STA. 199+90.00



SHOULDER TAPER

MIXTURE REQUIREMENTS

	HMA SURFACE	HMA BINDER/SHOULDER
PG GRADE	PG58-28	PG58-28
DESIGN AIR VOIDS	4% AT N50	4% AT N50
MIXTURE COMPOSITION	IL-9.5	IL-19.0
FRICTION AGGREGATE	MIXTURE C	
MIXTURE WEIGHT	112 LB./S.Y./IN	112 LB./S.Y./IN

LAYOUT	JDM	11/13/14
DRAWN	JDM	05/01/15
REVIEWED	DPA	05/01/15

I:\13_jobs\13L0215A\CAD\Road\Sheet\C-002-GEN.dgn Modor00377 10/29/2015 N:\3 Jobs\13L0215A\CAD\Road\Sheet\C-002-GEN.dgn

FILE NAME = I:\13_jobs\13L0215A\CAD\Road\Sheet\C-002-GEN.dgn	USER NAME = Modor00377	DESIGNED - DPA	REVISED -
		DRAWN - JDM	REVISED -
	PLOT SCALE = AS SHOWN	CHECKED - DPA	REVISED -
	PLOT DATE = 10/29/2015	DATE - 05/01/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, UTILITY CONTACTS, AND TYPICAL SECTION
CUNNINGHAM ROAD BRIDGE REPLACEMENT
ROCKFORD, ILLINOIS

SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5200	12-00529-00-BR	WINNEBAGO	20	2
		CONTRACT NO. 85627		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

85627

SUMMARY OF QUANTITIES
CONSTRUCTION TYPE CODE: 0011

	CODED PAY ITEM NUMBER	ITEM	UNIT	TOTAL QUANTITY
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	12
	25000210	SEEDING, CLASS 2A	ACRE	0.24
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	20
	25000500	PHOSPHOROUS FERTILIZER NUTRIENT	POUND	20
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	20
	25100630	EROSION CONTROL BLANKET	SQ YD	1038
	25100900	TURF REINFORCEMENT MAT	SQ YD	121
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	30
	28000400	PERIMETER EROSION BARRIER	FOOT	882
	28100107	STONE RIPRAP, CLASS A4	SQ YD	366
	28200200	FILTER FABRIC	SQ YD	366
	31101810	SUB-BASE GRANULAR MATERIAL, TYPE B 12"	SQ YD	873
*	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1,995
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	181
	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	90
	48101500	AGGREGATE SHOULDER, TYPE B 6"	SQ YD	84
	48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	594
*	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
	50200100	STRUCTURE EXCAVATION	CU YD	214
	50201101	COFFERDAM (TYPE 1) (LOCATION-1)	EACH	2
	50300225	CONCRETE STRUCTURES	CU YD	109.1
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	114.8
	50300260	BRIDGE DECK GROOVING	SQ YD	267
	50300300	PROTECTIVE COAT	SQ YD	292
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	40,180
Δ	50901050	STEEL RAILING, TYPE SM	FOOT	144
	51201400	FURNISHING STEEL PILES HP10X42	FOOT	230
	51201600	FURNISHING STEEL PILES HP12X53	FOOT	357
	51202305	DRIVING PILES	FOOT	230
	51203400	TEST PILE STEEL HP10X42	EACH	2
	51204650	PILE SHOES	EACH	12
	51500100	NAME PLATES	EACH	1
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	39
Δ	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	75
Δ	63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
*Δ	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
Δ	63200310	GUARDRAIL REMOVAL	FOOT	337
	67100100	MOBILIZATION	L SUM	1
	72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	12
	72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	6
	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	26
Δ	78001110	PAINT PAVEMENT MARKING - LINE 4 INCH	FOOT	1490
Δ	78200410	GUARDRAIL MARKERS, TYPE A	EACH	8
Δ	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
*	X2020410	EARTH EXCAVATION (SPECIAL)	CU YD	485
*	X2030300	CHANNEL EXCAVATION (SPECIAL)	CU YD	194
*	X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	50
*	X6670105	PERMANENT SURVEY MARKERS (SPECIAL)	EACH	1
*	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
*	X0326806	WASHOUT BASIN	L SUM	1
*	Z0013798	CONSTRUCTION LAYOUT	L SUM	1
*	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	140
*	Z0065000	SETTING PILES IN ROCK	EACH	14

* - SEE SPECIAL PROVISIONS, HIGHWAY STANDARDS, GENERAL NOTES, AND/OR DETAILS IN PLANS

Δ SPECIALTY ITEMS

SIGN SCHEDULE

STA.	OFFSET	DIRECTION	REMOVE SIGN PANEL (SQ. FT.)	RELOCATE SIGN PANEL (SQ. FT.)	DESCRIPTION	TELESCOPIC SIGN SUPPORT (FT.)
197+05.04	RT	E.B.	6.00		GROSS WEIGHT	
197+10.28	RT	E.B.		3.00	OBJECT MARKER	13
199+98.40	LT	W.B.	6.00		GROSS WEIGHT	
200+06.98	LT	W.B.		3.00	OBJECT MARKER	13
		TOTALS	12.0	6.0		26

SCHEDULE OF QUANTITIES

STA.	SUB-BASE GRANULAR MATERIAL, TYPE B 12" WIDTH (FT.)	AVG. WIDTH (FT.)	LENGTH (FT.)	AREA (SQ. YD.)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 AVG. WIDTH (FT.)	THICKNESS (IN.)	UNIT WT. (LBS. / SY / IN.)	TOT. WT. (TONS)	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 THICKNESS (IN.)	UNIT WT. (LBS. / SY / IN.)	TOT. WT. (TONS)	BITUMINOUS MATERIAL (PRIME COAT) SUB-BASE RATE	SUB-BASE POUNDS	HMA BINDER RATE	HMA BINDER POUNDS
196+17.70	26.0														
		26.0	202.8	585.9	24.0	4	112	121.1	2	112	60.6	0.25	1216.8	0.025	122
198+20.50	26.0														
198+90.50	26.0														
		26.0	99.6	287.4	24.0	4	112	59.4	2	112	29.7	0.25	597.0	0.025	60
199+90.00	26.0														
			TOTAL	873.2			TOTAL	180.6		TOTAL	90.3	SUB	1813.8	SUB	181.4
														TOTAL	1995.2

EARTHWORK QUANTIES
FILL ADJUSTMENT (SHRINKAGE) FACTOR USED : 0.25
Fumished Exc. = Embankment - [Suitable Exc.*(1-Shrinkage Factor)]

STATION	END AREAS CUT S.F.	END AREAS FILL S.F.	DISTANCE FT.	VOLUME EARTH EXCAVATION (Suitable Exc.) CU. FT.	VOLUME EMBANKMENT (Fill) CU. FT.
196+17.70	48.1				
196+25.00	46.4		7.30	345.1	0.0
196+33.79	43.3		8.79	394.1	0.0
196+50.00	40.1		16.21	675.3	0.0
196+69.16	38.1	2.4	19.16	748.9	22.8
196+75.00	37.8	3.5	5.84	221.6	17.1
196+79.10	36.9	4.7	4.10	153.2	16.7
196+89.33	37.7	9.2	10.23	381.5	70.9
197+00.00	38.1	8.6	10.67	404.1	94.7
197+07.11	37.5	12.3	7.11	268.7	74.1
197+25.00	39.3	17.6	17.89	686.8	267.6
197+29.70	39.6	17.4	4.70	185.4	82.3
197+50.00	39.2	30.6	20.30	800.3	487.1
197+75.00	39.7	26.9	25.00	986.3	718.0
198+00.00	40.1	37.6	25.00	997.5	806.1
198+19.50	42.3	40.8	19.50	803.7	764.9
BRIDGE					
198+91.50	44.7	42.6			
198+99.47	45.0	26.2	8.0	357.5	274.1
199+00.00	45.0	33.2	0.5	23.8	15.7
199+10.91	45.6	9.5	10.9	494.0	232.4
199+25.00	45.2	9.2	14.1	639.1	131.7
199+40.00	43.3	10.6	15.0	663.3	148.4
199+50.00	42.0	14.9	10.0	426.2	127.2
199+75.00	42.9	8.0	25.0	1060.5	286.0
199+90.00	43.6	9.1	15.0	648.7	128.0
199+96.62	8.1	10.8	6.6	171.2	65.8
200+00.00	8.4	7.6	3.4	27.9	31.1
200+25.00	9.7		25.0	225.8	95.3
200+39.57	5.4		14.6	110.1	0.0
200+43.12	5.2		3.5	18.9	0.0
200+50.00	4.2		6.9	32.5	0.0
200+75.00	4.9		25.0	114.8	0.0
200+85.65	0.7		10.7	30.1	0.0
ROADWAY		TOTAL CU. FT.		13096.7	4957.9
		TOTAL CU. YD.		485.1	183.6

HMA SHOULDERS

STA.	OFFSET	WIDTH (FT.)	AVG WIDTH (FT.)	LENGTH (FT.)	AREA (SQ. YDS)
196+17.70	LT	1.00			
196+69.16	LT	1.00	1.00	51.46	5.7
197+14.11	LT	9.00	5.00	44.95	25.0
198+00.06	LT	9.00	9.00	85.95	86.0
198+19.86	LT	7.33	8.17	19.80	18.0
198+91.14	LT	7.33			
199+10.94	LT	9.00	8.17	19.80	18.0
200+43.43	LT	9.00	9.00	132.49	132.5
200+85.65	LT	1.00	5.00	42.22	23.5
196+17.70	RT	1.00			
196+35.79	RT	1.00	1.00	18.09	2.0
196+89.33	RT	9.00	5.00	53.54	29.7
197+98.93	RT	9.00	9.00	109.60	109.6
198+19.14	RT	7.00	8.00	20.21	18.0
198+91.87	RT	7.00			
199+12.07	RT	9.00	8.00	20.20	18.0
199+96.62	RT	9.00	9.00	84.55	84.5
200+39.57	RT	1.00	5.00	42.95	23.9
				TOTAL	594.2

AGGREGATE SHOULDERS

STA.	OFFSET	WIDTH (FT.)	AVG WIDTH (FT.)	LENGTH (FT.)	AREA (SQ. YDS)
196+17.70	LT	3.40			
197+69.16	LT	3.60	3.50	151.46	58.9
197+90.21	LT	0.00	1.80	21.05	4.2
200+63.17	LT	0.00			
200+85.65	LT	4.10	2.05	22.48	5.1
196+17.70	RT	2.80			
196+33.79	RT	2.90	2.85	16.09	5.1
196+55.96	RT	0.00	1.45	22.17	3.6
200+13.81	RT	0.00			
200+39.57	RT	4.90	2.45	25.76	7.0
				TOTAL	83.9

PAVEMENT MARKING SCHEDULE

LOCATION BEGIN STATION	LOCATION END STATION	LOCATION OFFSET	PAINT PAVEMENT MARKING - LINE 4" FOOT	GUARDRAIL MARKERS TYPE A EACH	TERMINAL MARKER DIRECT APPLIED EACH	NOTE
196+17.70	199+90.00	LT	372			WHITE SOLID
196+17.70	199+90.00	CENTERLINE	745			DOUBLE YELLOW / SOLID
196+17.70	199+90.00	RT	372			WHITE SOLID
197+26.99	200+33.55	LT		4		MONO DIRECTIONAL CRYSTAL
196+99.33	199+86.50	RT		4		MONO DIRECTIONAL CRYSTAL
196+99.33		RT			1	
197+26.99		LT			1	
199+86.50		RT			1	
200+33.55		LT			1	
		TOTAL	1489.2	8	4	

PERIMETER EROSION BARRIER SCHEDULE

BEGIN STATION	END STATION	LT/RT	PERIMETER EROSION BARRIER FEET	EROSION CONTROL BLANKET SQ YD	TURF REINFORCEMENT MAT SQ YD
196+17.70	198+45.71	LT	248		
196+17.70	198+46.32	RT	235		
198+65.28	200+58.78	LT	215		
198+65.68	200+39.83	RT	184		
196+17.70	198+19.50	LT		296	
196+17.70	198+19.50	RT		332	
198+91.50	200+58.78	LT		180	
198+91.50	200+39.83	RT		230	
196+17.70	198+45.71	LT			37
196+17.70	198+46.32	RT			24
198+65.28	198+19.50	LT			37
198+65.68	198+19.50	RT			23
TOTAL			882	1038	121

LAYOUT	JDM	11/13/14
DRAWN	JDM	05/01/15
REVIEWED	DPA	05/01/15

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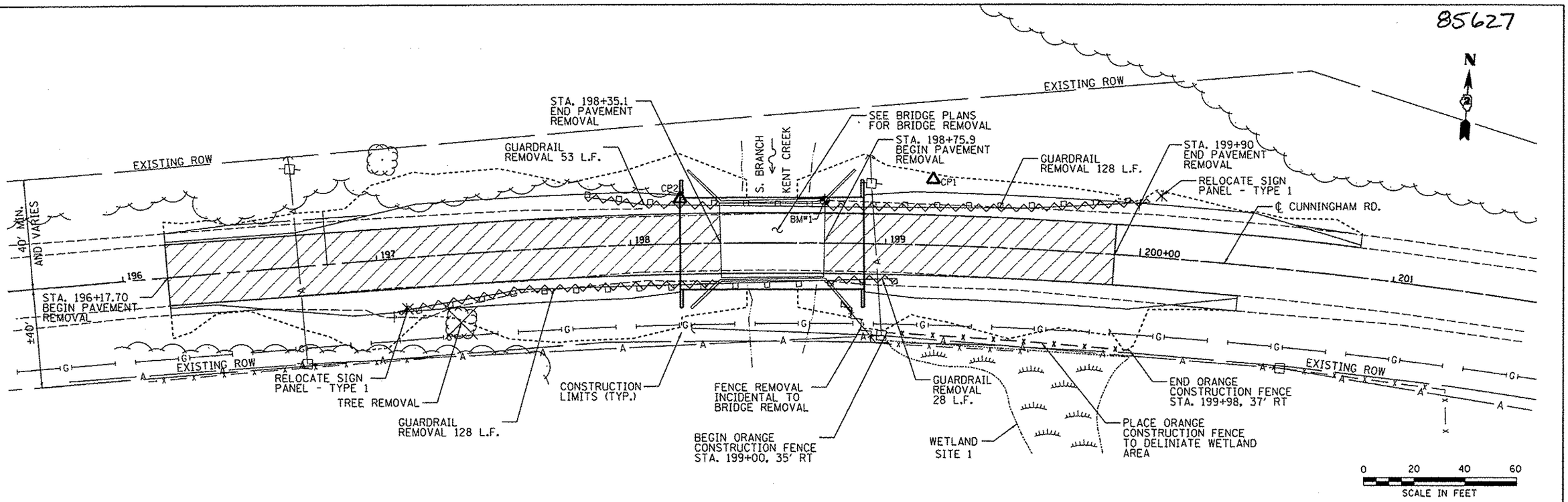
PLOT DATE = 10/29/2015
DESIGNED - DPA
DRAWN - JDM
CHECKED - DPA
DATE - 05/01/15
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES AND SCHEDULE OF QUANTITIES
CUNNINGHAM ROAD BRIDGE REPLACEMENT
ROCKFORD, ILLINOIS
SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5200	12-00529-00-BR	WINNEBAGO	20	3
		CONTRACT NO. 85627		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

85627



BENCHMARK				
BENCHMARK	STATION	OFFSET	DESCRIPTION	ELEVATION
BM*1	198+76.04	16.89' LT	BENCHMARK MARKER, NORTHEAST CORNER OF BRIDGE.	759.92

CONTROL POINTS			
POINT	NORTHING	EASTING	DESCRIPTION
CP1	2039313.28	2566805.98	FND 1/2" PIPE
CP2	2039298.53	2566707.54	WOOD HUB

ALIGNMENT REPORT			
	Station	Northing	Easting
Element: Linear			
POB ( )	194+00.0000	2039220.448	2566293.695
PC ( )	197+01.7210	2039266.15	2566591.935
Tangential Direction:	N 81°17'16" E		
Tangential Length:	301.721		
Element: Circular			
PC ( )	197+01.7210	2039266.15	2566591.935
PI ( )	200+62.5318	2039324.724	2566968.214
CC ( )		2037388.76	2566884.179
PT ( )	204+53.3832	2039233.766	2567338.002
Radius:	1900		
Delta:	22°40'01"	Right	
Degree of Curvature (Arc):	3°00'56"		
Length:	751.6622		
Tangent:	380.8108		
Chord:	746.77		
Middle Ordinate:	37.0497		
External:	37.7866		
Tangent Direction:	N 81°09'07" E		
Radial Direction:	S 8°50'53" E		
Chord Direction:	S 87°30'52" E		
Radial Direction:	S 13°49'08" W		
Tangent Direction:	S 76°10'52" E		
Element: Linear			
PT ( )	204+53.3832	2039233.766	2567338.002
POE ( )	206+34.8781	2039190.416	2567514.244
Tangential Direction:	S 76°10'53" E		
Tangential Length:	181.4949		

LEGEND

- SIGN PANEL AND POST
- GUARDRAIL REMOVAL
- PAVEMENT REMOVAL PAID FOR AS EARTH EXCAVATION (SPECIAL)

HANSON
Hanson Professional Services Inc.

LAYOUT	JDM	11/13/14
DRAWN	JDM	05/01/15
REVIEWED	DPA	05/01/15

Modor00377
10/29/2015
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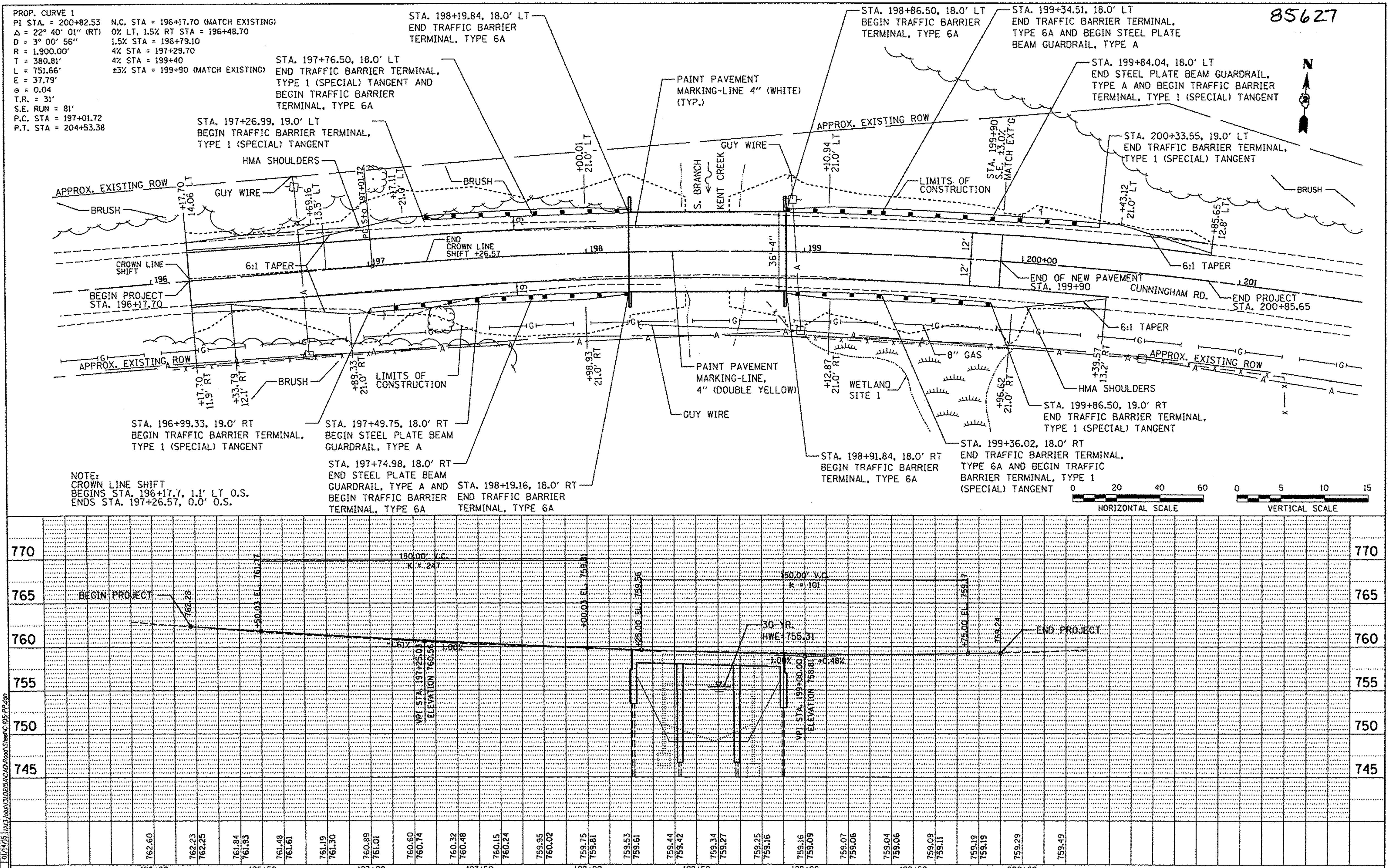
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES, BENCHMARK, AND REMOVAL PLAN
CUNNINGHAM ROAD BRIDGE REPLACEMENT
ROCKFORD, ILLINOIS

SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5200	12-00529-00-BR	WINNEBAGO	20	4
		CONTRACT NO. 85627		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

85627



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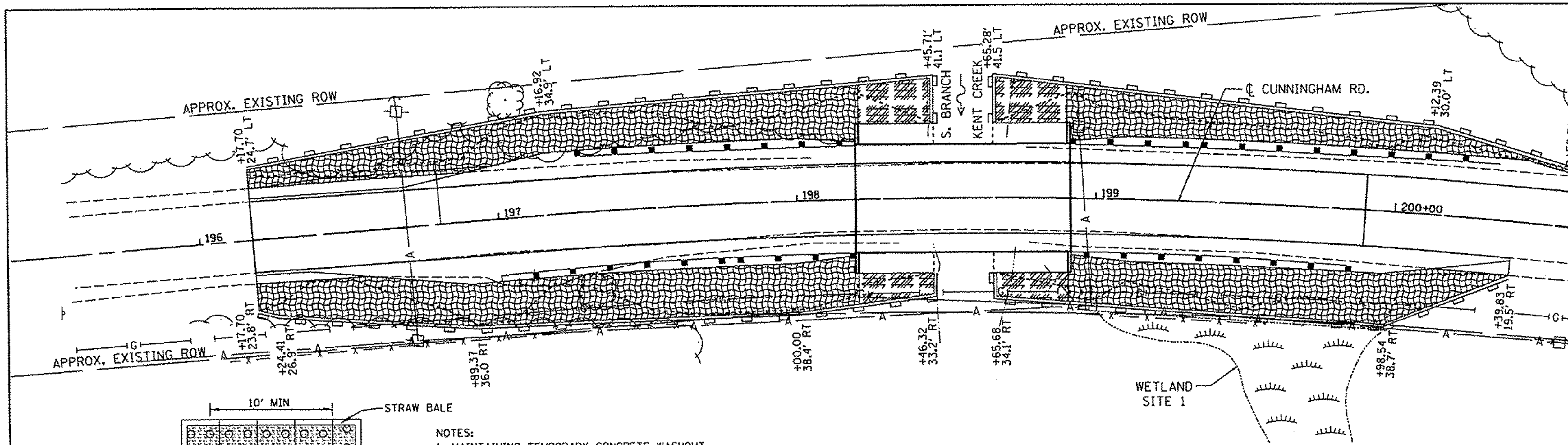
	PLOT DATE = 10/29/2015	CHECKED DPA	REVISED -		ROCKFORD, ILLINOIS	SHEET NO. 5	CONTRACT NO. 85627
		DATE 1/14/2015	REVISED -		SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

85627

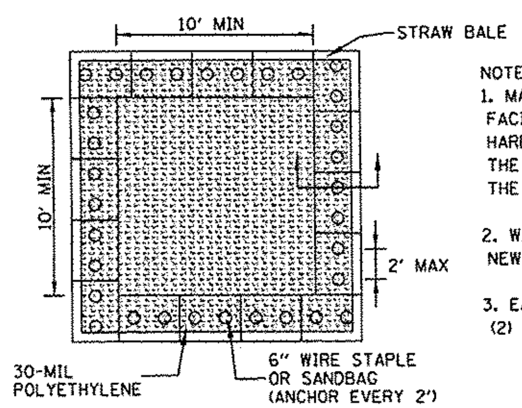


LEGEND

- LIMITS OF CONSTRUCTION
- EROSION CONTROL BLANKET
- TURF REINFORCEMENT MAT
- PERIMETER BARRIER
- TEMPORARY DITCH CHECK
- CONCRETE TRUCK WASH OUT

N

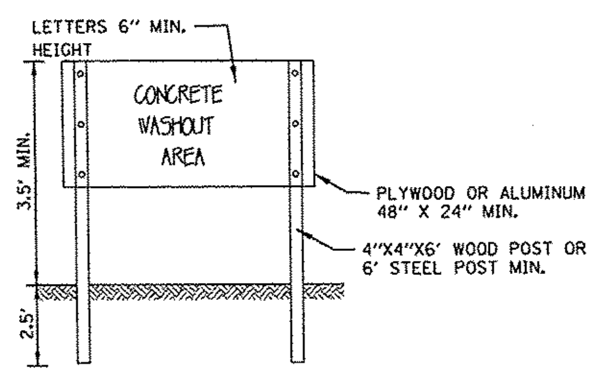
0 20 40 60
SCALE IN FEET



PLAN VIEW

NOTES:

1. MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHALL INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND/OR SLURRY AND RETURNING THE AREA TO A FUNCTIONAL CONDITION AT THE END OF THE PROJECT.
2. WASHOUT SHALL BE CLEANED OR RECONSTRUCTED IN A NEW AREA ONCE WASHOUT BECOMES TWO-THIRDS FULL.
3. EACH STRAW BALE IS TO BE STAKED IN PLACE USING (2) 2"X2"X4' WOODEN STAKES.



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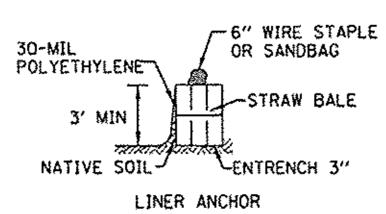

LINER ANCHOR

STRAW BALE ANCHOR SECTIONS

TEMPORARY CONCRETE WASHOUT FACILITY - STRAW BALE

GENERAL EROSION CONTROL NOTES

1. EROSION CONTROL DEVICES SHALL BE IN PLACE AND APPROVED BY THE RESIDENT ENGINEER AS TO PROPER PLACEMENT AND INSTALLATION PRIOR TO BEGINNING OTHER WORK.
2. THE RESIDENT ENGINEER WILL DETERMINE WHEN TEMPORARY EROSION CONTROL SYSTEMS SHOWN ON THE PLAN MAY BE MOVED TO A DIFFERENT LOCATION OR DELETED.
3. IN THE EVENT OF HIGH WATER AND/OR HIGH FLOW RATES THAT DAMAGE THE PERIMETER EROSION AND SEDIMENT CONTROLS, THE CONTRACTOR SHALL RETRIEVE ANY CONTROLS THAT HAVE BEEN WASHED DOWNSTREAM. CONTRACTOR SHALL REPAIR SAME.
4. STRAW BALES ARE NOT ALLOWED FOR ANY USE EXCEPT FOR CONCRETE TRUCK WASH OUT.
5. SILT FENCING IS NOT ALLOWED FOR USE IN DITCH CHECKS.
6. AFTER THE VEGETATION IS ESTABLISHED IN THE DISTURBED AREA, THE CONTRACTOR SHALL:

   -REMOVE THE REMAINING SEDIMENT CONTROL ITEMS AS DIRECTED BY THE RESIDENT ENGINEER.

   -RESTORE THE AREAS DISTURBED BY THE SEDIMENT CONTROL ITEMS BY PERMANENT SEEDING MEASURES.
7. DETAILS PROVIDED ON THIS SHEET ARE INTENDED TO REPLACE OR SUPPLEMENT APPROPRIATE PORTIONS OF HIGHWAY STANDARD 280001.

INTENDED SEQUENCE

1. PLACE PERIMETER EROSION CONTROL BARRIER PRIOR TO COMMENCEMENT OF ANY WORK. SEE STD. 280001
2. CONSTRUCT EARTHWORK.
3. PLACE AND MAINTAIN TEMPORARY AND PERMANENT EROSION CONTROLS AS WORK PROGRESSES. SEE ART. 280.
4. FINAL SHAPE, GRADE, AND PAVE ROADWAY.
5. PLACE REMAINING PERMANENT EROSION CONTROLS.

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REVIEWED	DPA	05/01/15	I:\NJ3jobs\13L0215A\CAD\Road\Sheet\C-106-ECP.dgn

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	PLOT DATE = 10/29/2015	DATE - 05/01/15	REVISED -

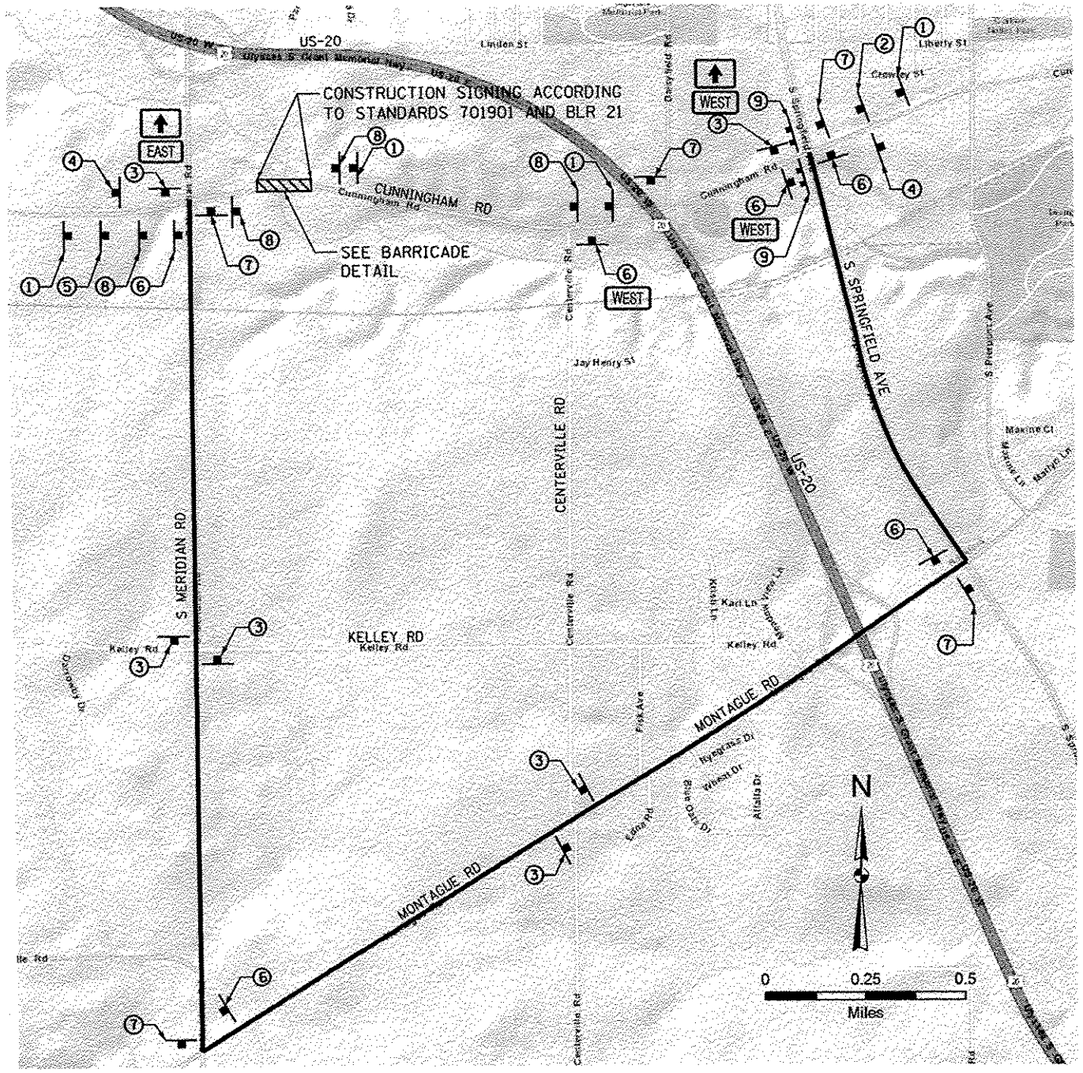
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

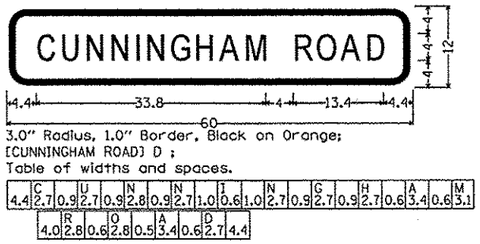
EROSION CONTROL PLAN
CUNNINGHAM ROAD BRIDGE REPLACEMENT
ROCKFORD, ILLINOIS

SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5200	12-00529-00-BR	WINNEBAGO	20	6
		CONTRACT NO. 85627		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

85627

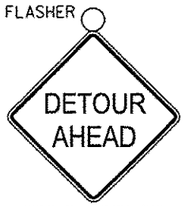




1 TYPE B FLASHER

W20-3 (48"X48")

TYPE B FLASHER



W20-2 (48"X48")

2

M3-4 (24"X12")

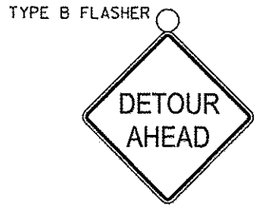
3

M4-8 (24"X12")

4

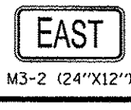
W4-8a (24"X18")

TYPE B FLASHER

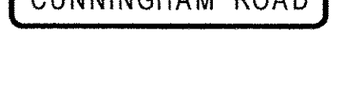


W20-2 (48"X48")

5



M3-2 (24"X12")



6

M4-8 (24"X12")

W16-5P (24"X18")

7

M4-8 (24"X12")

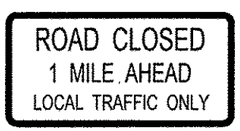
W16-5P (24"X18")

TYPE B FLASHER

8

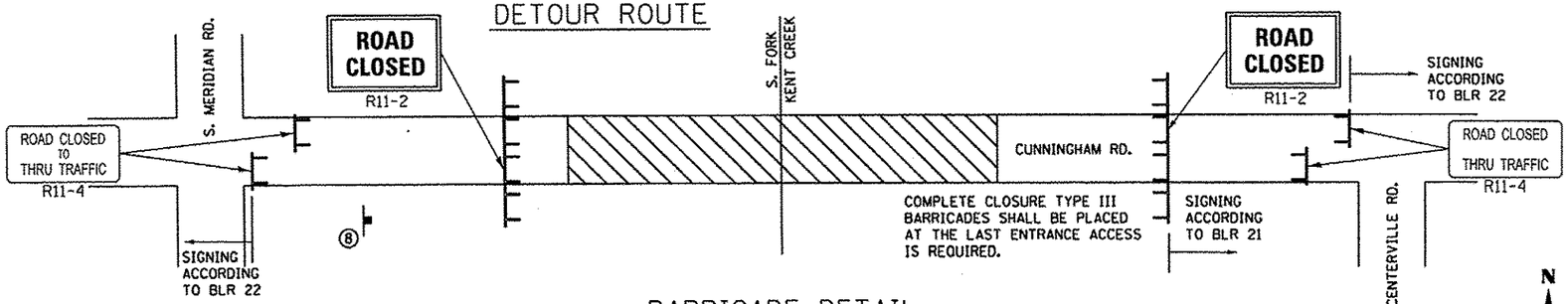
W20-3 (48"X48")

9



R11-3A (__"X__")

DETOUR ROUTE



BARRICADE DETAIL

LEGEND

- DETOUR ROUTE
- PROJECT LOCATION
- SIGN LOCATION
- SIGN BARRICADE TYPE III LOCATION

N

HANSON

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Professional Services Inc. 2008
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LAYOUT	JDM	11/13/14
DRAWN	JDM	05/01/15
REVIEWED	DPA	05/01/15

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	PLOT DATE = 10/29/2015	DATE - 05/01/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR ROUTE
CUNNINGHAM ROAD BRIDGE REPLACEMENT
ROCKFORD, ILLINOIS

SHEET NO. OF SHEETS STA. - TO STA. -

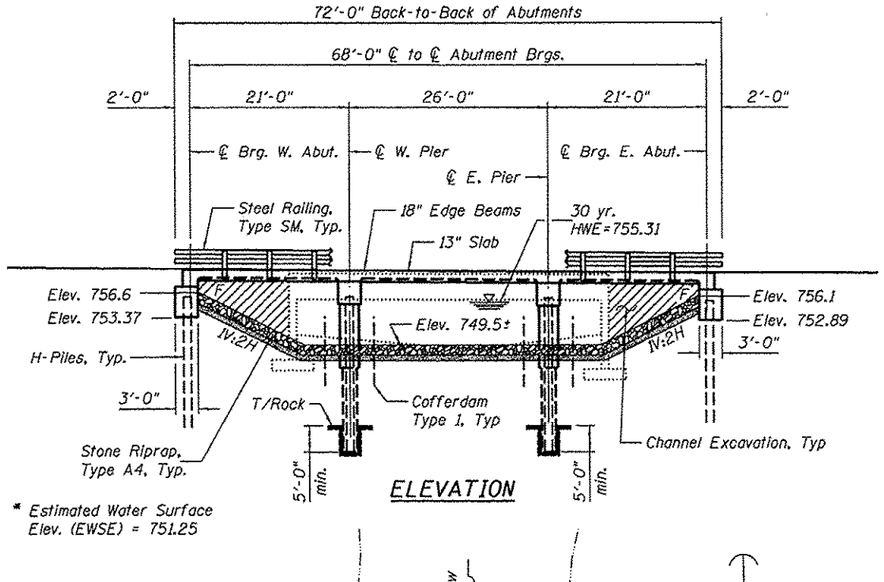
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5200	12-00529-00-BR	WINNEBAGO	20	7
		CONTRACT NO. 85627		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

85627

Benchmark - Survey disk at Northeast corner on wingwall. Station 198+76.04, Offset, 16.89' Lt. Elevation 759.76

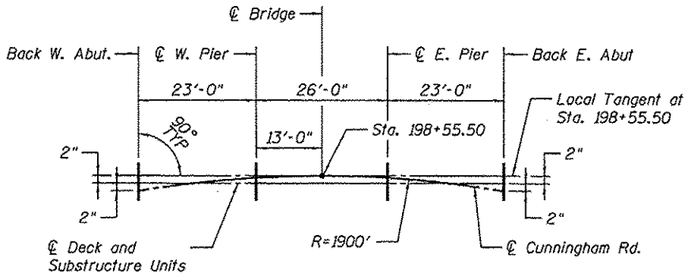
Existing Structure - Structure Number 101-3001. Original structure built in 1953 under Section 90B -1 MFT and is comprised of a steel beam and concrete deck superstructure supported by closed concrete abutments. The clear bridge width is 26 ft. face-to-face of curbs. The total deck width is 30 ft. out-to-out. The clear bridge length is 40 ft. face-to-face of abutments.

Salvage - Existing Bridge Name Plate.



ELEVATION

* Estimated Water Surface Elev. (EWSE) = 751.25

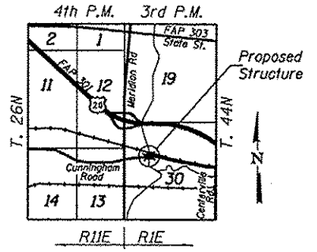


OFFSET SKETCH

CUNNINGHAM ROAD BRIDGE
BUILT 20__ BY
WINNEBAGO COUNTY
SEC. 12-00529-00-BR
F.A.U. RT. 5200 STA. 198+55.50
STR. NO. 101-3104 LOADING HL-93

LETTERING FOR NAME PLATE

Locate Name Plate at Southwest Corner of Bridge (See Std. 515001)



LOCATION SKETCH

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications - 6th edition

LOADING HL-93

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

DESIGN STRESSES

f'c = 5,000 p.s.i. (Superstructure)
f'c = 3,500 p.s.i. (All other units)
fy = 60,000 p.s.i. (Reinforcement)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec (SD1) = 0.055
Design Spectral Acceleration at 0.2 sec (SDs) = 0.098
Soil Site Class = C

CURVE DATA

D = 3°00'56"
R = 1900'
T = 380.81'
L = 751.66'
E = 37.79'
SE = 0.040'/'
P.C. Sta. = 197+01.72
P.T. Sta. = 204+53.38

INDEX OF SHEETS

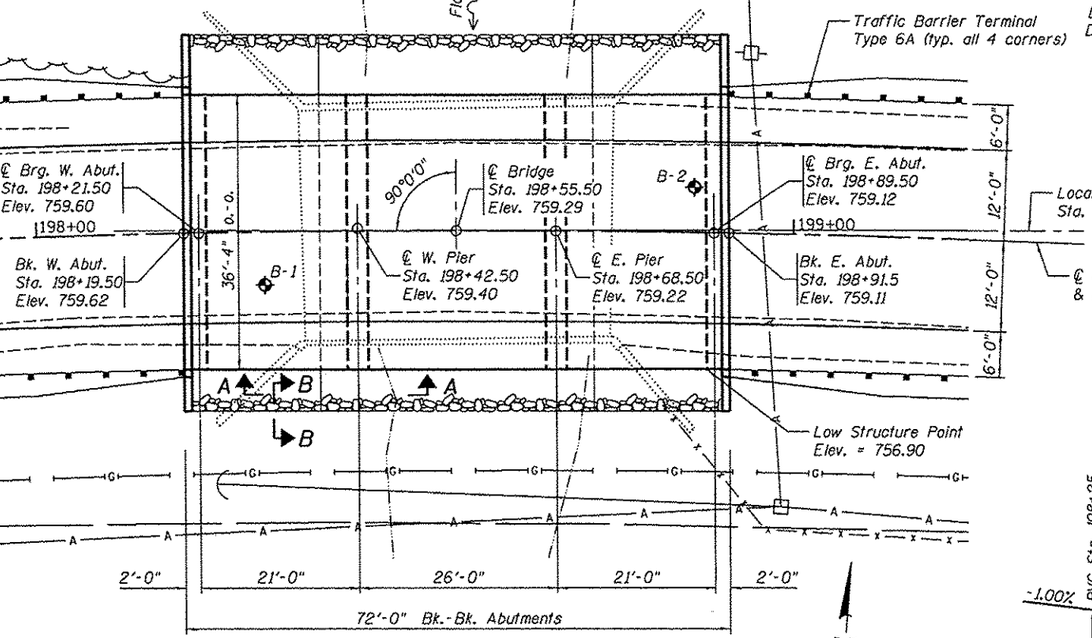
DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elevation (ft.)				Item 113
	W. Abut.	Pier 1	Pier 2	E. Abut.	
Q100	753.4	742.0	742.0	752.9	5
Q200	753.4	741.6	741.6	752.9	
Design	753.4	742.0	742.0	752.9	
Check	753.4	741.6	741.6	752.9	

WATERWAY INFORMATION

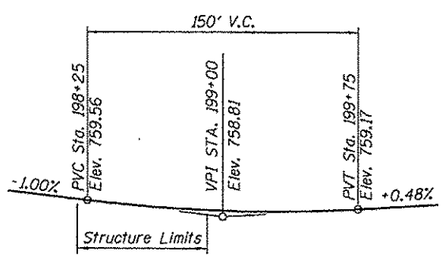
Drainage Area = 11.13 Sq. Mi. Low Grade Elev = 759.05 at Sta. 199+26.35

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	30	1305	215	273	755.31	0.53	0.57	755.84	755.88
Base	100	1750	245	316	755.87	0.76	0.76	756.63	756.63



PLAN

For Sections A-A and B-B see sheet 2 of 10.



PROFILE GRADE

(Along ℄ Roadway)

STUART M. KEMP 062-064997 STATE OF ILLINOIS STRUCTURAL ENGINEER LICENSED

Stuart M. Kemp
SIGNATURE
08/21/2015
DATE
LIC. EXP. DATE 11/30/2016

"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.'"

GENERAL PLAN & ELEVATION
CUNNINGHAM ROAD BRIDGE
OVER S. BRANCH KENT CREEK
FAU 5200
SEC. 12-00529-00-BR
WINNEBAGO COUNTY, ILLINOIS
STATION 198+55.50
STRUCTURE NO. 101-3104

DESIGNED	SMK	12/15/2014	
DRAWN	MGM	05/20/2015	
REVIEWED	JKR	05/20/2015	

FILE NAME =
USER NAME =
PLOT SCALE =
PLOT DATE =

DESIGNED - SMK — REVISED
CHECKED - — REVISED
DRAWN - MGM — REVISED
CHECKED - JKR — REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 101-3104
SHEET NO. 1 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5200	12-00529-00-BR	WINNEBAGO	20	8
		CONTRACT NO. 85627		
		ILLINOIS FED. AID PROJECT		

GENERAL NOTES

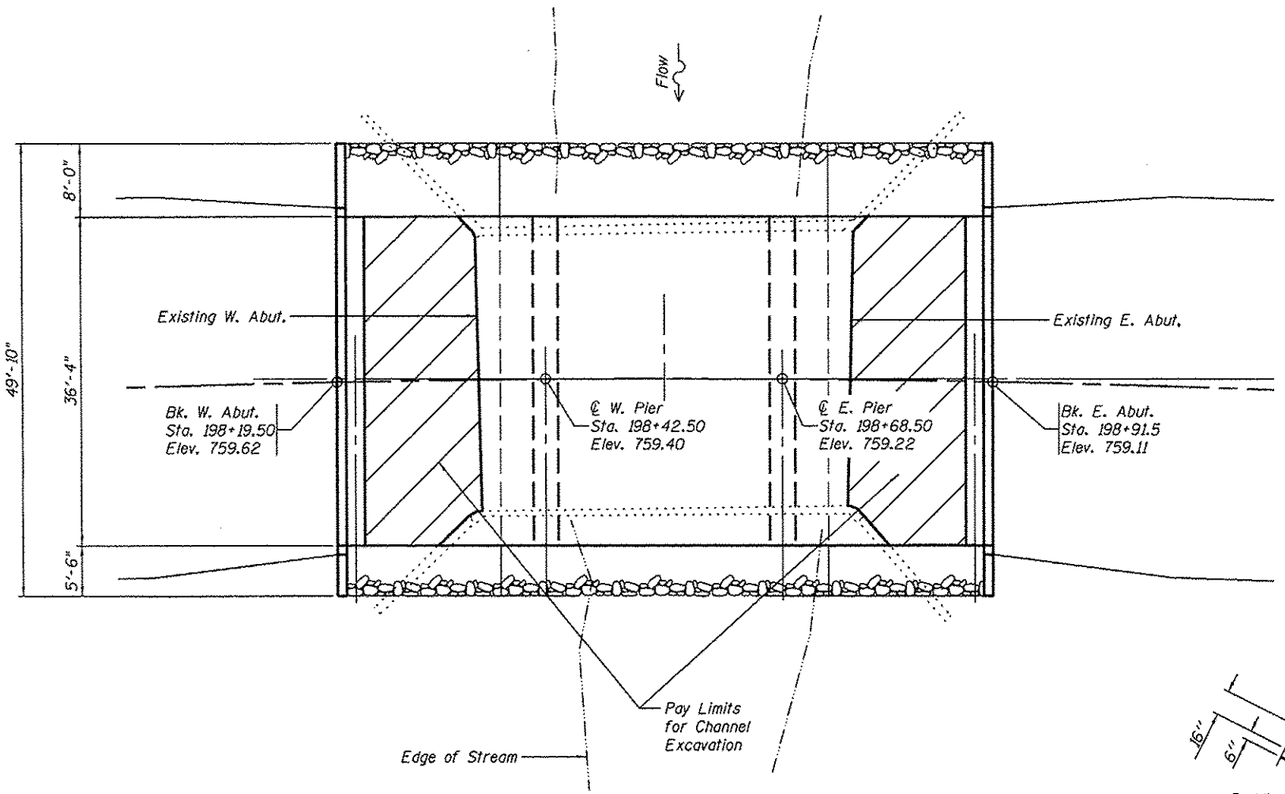
Reinforcement bars designated (E) shall be epoxy coated.

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

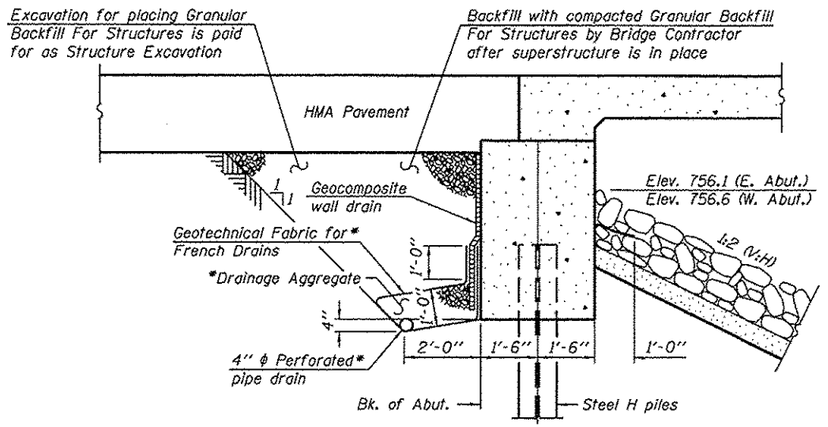
The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection.

TOTAL BILL OF MATERIAL 85627

Item	Unit	Super	Sub.	Total
Channel Excavation	Cu. Yd.	—	194	194
Stone Riprap, Class A4	Sq. Yd.	—	366	366
Filter Fabric	Sq. Yd.	—	366	366
Removal of Existing Structures	Each	—	—	1
Structure Excavation	Cu. Yd.	—	214	214
Cofferdams (Type 1) (Location 1)	Each	—	2	2
Concrete Structures	Cu. Yd.	—	109.1	109.1
Concrete Superstructure	Cu. Yd.	114.8	—	114.8
Bridge Deck Grooving	Sq. Yd.	267	—	267
Protective Coat	Sq. Yd.	292	—	292
Reinforcement Bars, Epoxy Coated	Pound	29,340	10,840	40,180
Steel Railing, Type SM	Foot	144	—	144
Furnishing Steel Piles, HP10x42	Foot	—	230	230
Furnishing Steel Piles, HP12x53	Foot	—	276	276
Driving Piles	Foot	—	506	506
Test Piles, HP10x42	Each	—	2	2
Test Piles, HP12x53	Each	—	2	2
Pile Shoes	Each	—	26	26
Name Plates	Each	1	—	1
Geocomposite Wall Drain	Sq. Yd.	—	39	39
Granular Backfill for Structures	Cu. Yd.	—	50	50
Pipe Underdrains for Structures 4"	Foot	—	140	140



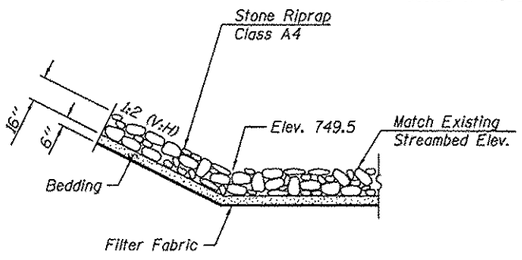
CHANNEL EXCAVATION PLAN



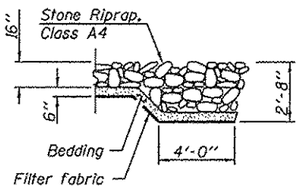
SECTION THRU ABUTMENT

* Included in the cost of Pipe Underdrains for Structures.

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



SECTION A-A
STONE RIPRAP DETAIL



SECTION B-B
FLANK STONE RIPRAP DETAIL

DESIGNED	SMK	12/15/2014	
DRAWN	MGM	05/20/2015	
REVIEWED	JKL	05/20/2015	

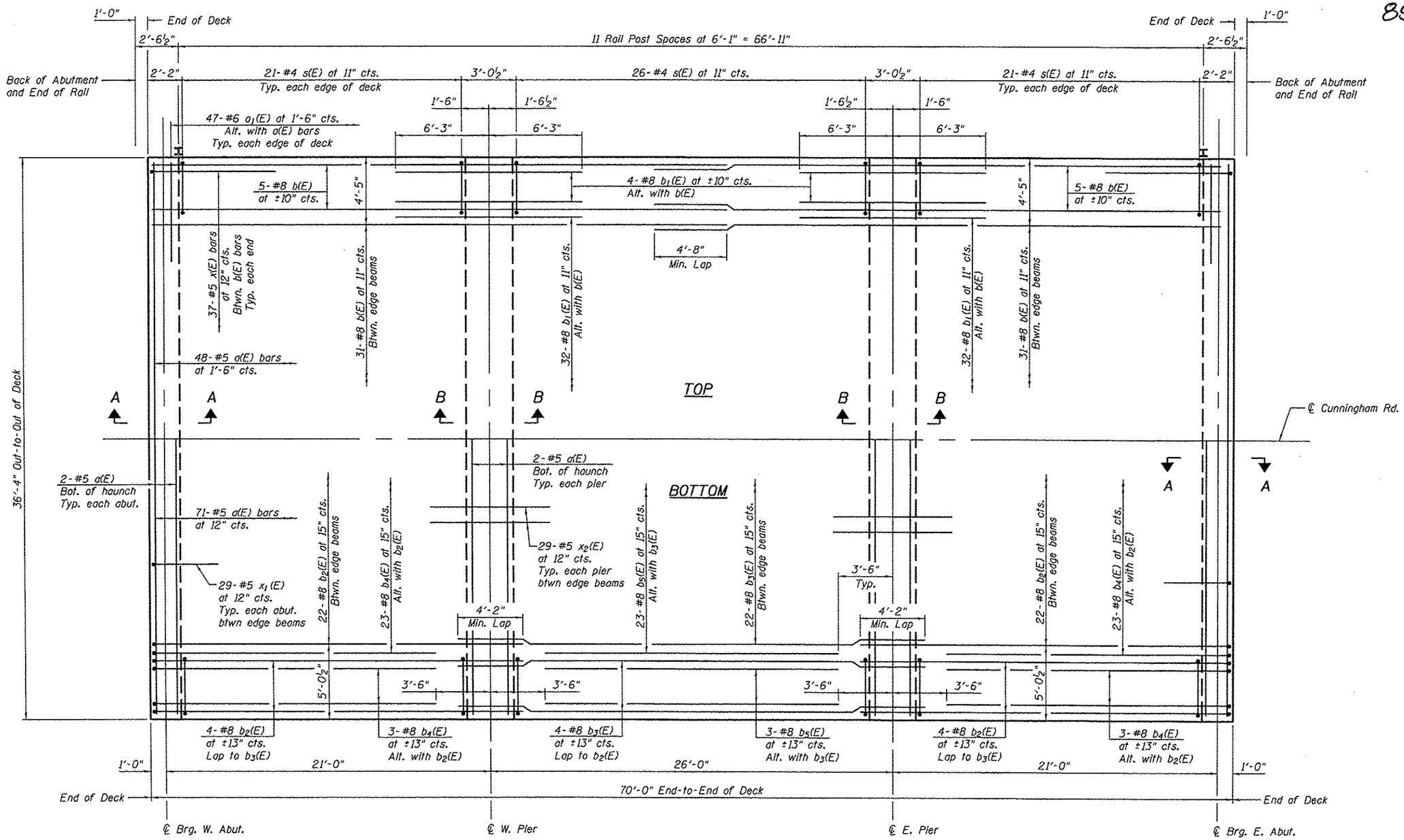
FILE NAME =	USER NAME =	DESIGNED - SMK	REVISED
		CHECKED -	REVISED
	PLOT SCALE =	DRAWN - MGM	REVISED
	PLOT DATE =	CHECKED - JKR	REVISED

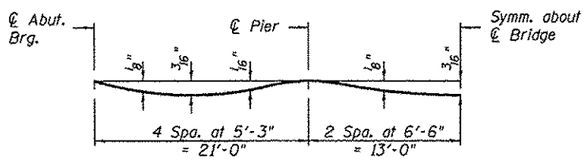
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, TOTAL BILL OF MATERIALS & RIPRAP DETAILS
STRUCTURE NO. 101-3104
SHEET NO. 2 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5200	12-00529-00-BR	WINNEBAGO	20	9
		CONTRACT NO. 85627		
		ILLINOIS FED. AID PROJECT		

85627





DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

N

DECK REINFORCEMENT PLAN

Bars indicated thus 25x2-#9 etc. indicates 25 line of bars with 2 lengths per line.

For Sections A and B see sheet 4 of 10.

DESIGNED	SMK	12/15/2014
DRAWN	MGM	05/20/2015
REVIEWED	JKR	05/20/2015

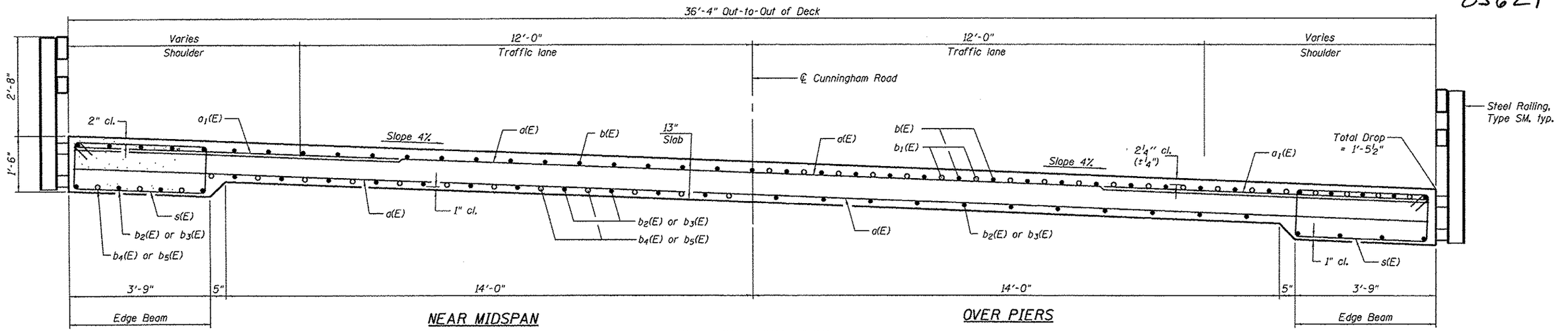
FILE NAME =	USER NAME =	DESIGNED - SMK	REVISED
		CHECKED -	REVISED
	PLOT SCALE =	DRAWN - MGM	REVISED
	PLOT DATE =	CHECKED - JKR	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 101-3104
SHEET NO. 3 OF 10 SHEETS

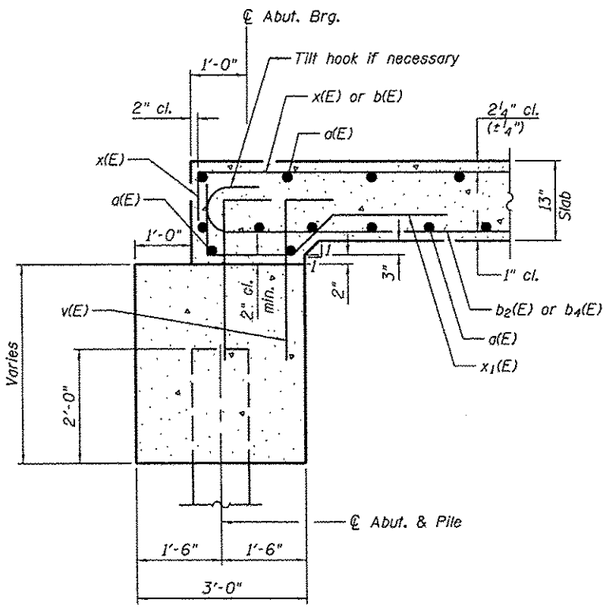
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5200	12-00529-00-BR	WINNEBAGO	20	10
		CONTRACT NO. 85627		
	ILLINOIS FED. AID PROJECT			

85627

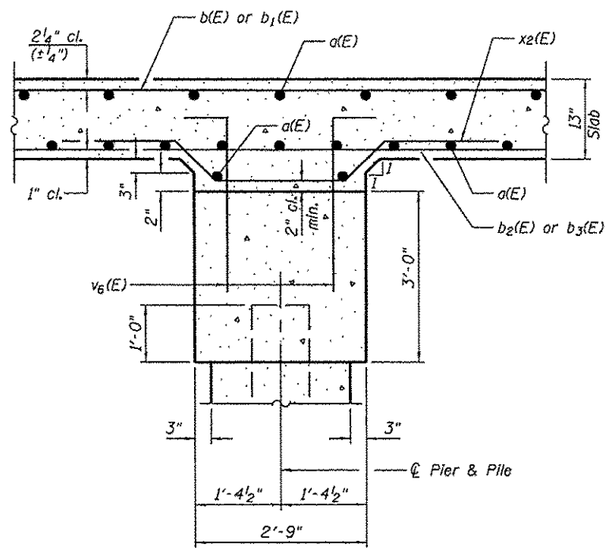


SECTION THRU DECK

(Looking East)



SECTION A-A

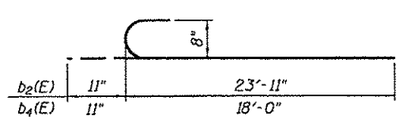


SECTION B-B

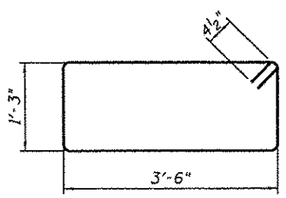
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	127	#5	36'-0"	
a1(E)	94	#6	6'-6"	
b(E)	82	#8	37'-3"	
b1(E)	80	#8	12'-6"	
b2(E)	60	#8	24'-10"	
b3(E)	30	#8	30'-3"	
b4(E)	58	#8	18'-11"	
b5(E)	29	#8	19'-0"	
s(E)	136	#4	10'-3"	
x(E)	74	#5	3'-3"	
x1(E)	58	#5	5'-7"	
x2(E)	58	#5	8'-4"	
Concrete Superstructures		Cu. Yd.	114.8	
Reinforcement Bars, Epoxy Coated		Pound	29,340	

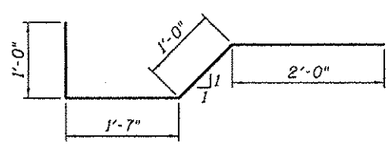
v(E) shown on sheet 6 & 7 of 10.
v6(E) shown on sheet 8 of 10.



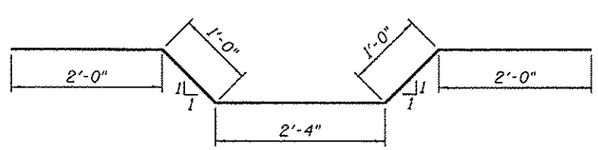
BARS b2(E) & b4(E)



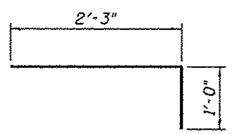
BAR s(E)



BAR x1(E)



BAR x2(E)



BAR x(E)

DESIGNED	SMK	12/15/2014	
DRAWN	MGM	05/20/2015	
REVIEWED	JKR	06/26/2015	

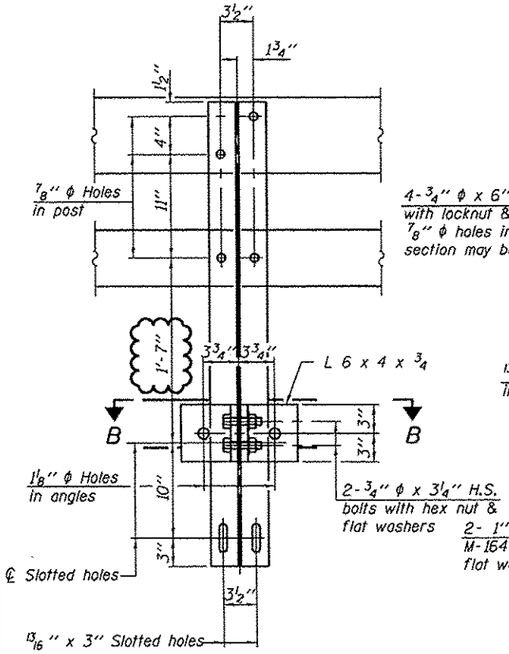
FILE NAME =	USER NAME =	DESIGNED - SMK	REVISED
		CHECKED -	REVISED
	PLOT SCALE =	DRAWN - MGM	REVISED
	PLOT DATE =	CHECKED - JKR	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

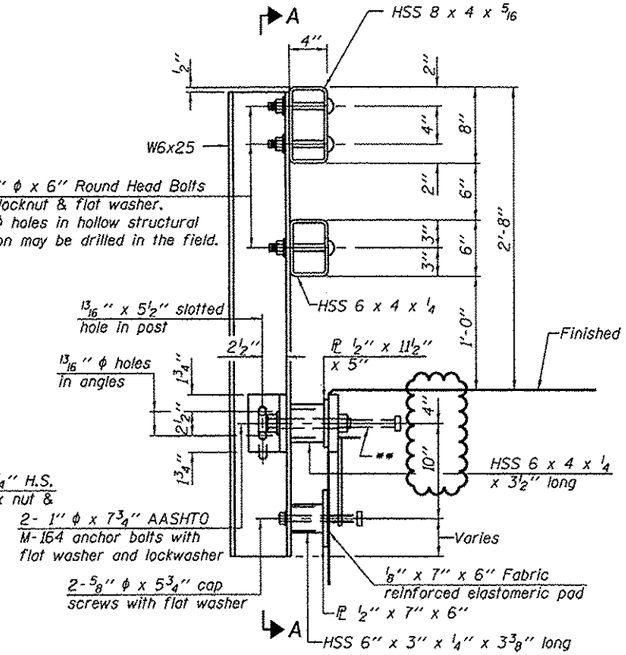
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 101-3104
SHEET NO. 4 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5200	12-00529-00-BR	WINNEBAGO	20	11
		CONTRACT NO. 85627		
	ILLINOIS FED. AID PROJECT			

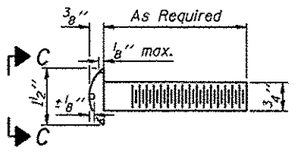
85627



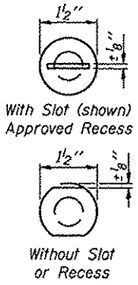
SECTION A-A



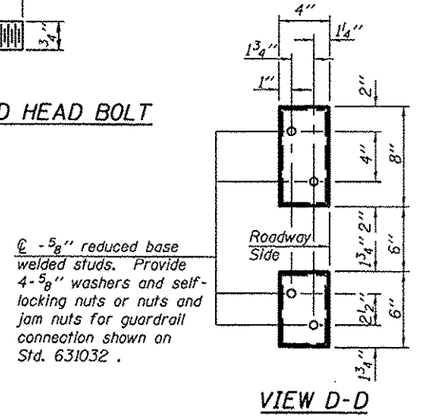
SECTION AT RAIL POST



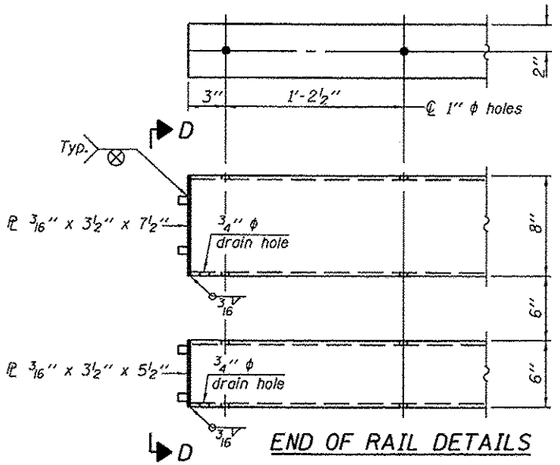
DETAIL OF ¾" ϕ ROUND HEAD BOLT



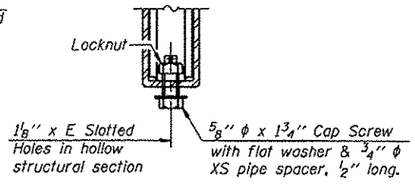
VIEW C-C



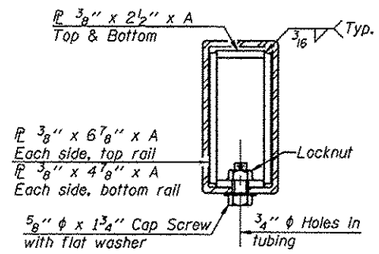
VIEW D-D



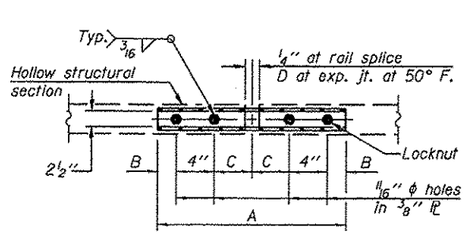
END OF RAIL DETAILS



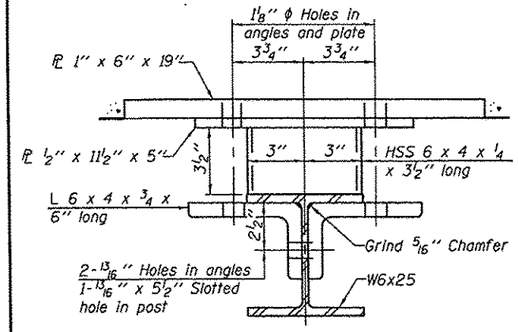
RAIL SPLICE CONNECTION AT EXPANSION JT.



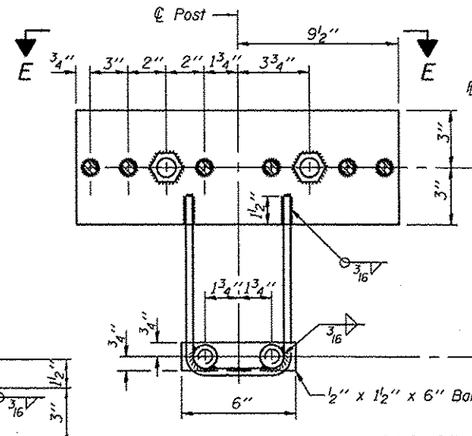
SECTION AT RAIL SPLICE



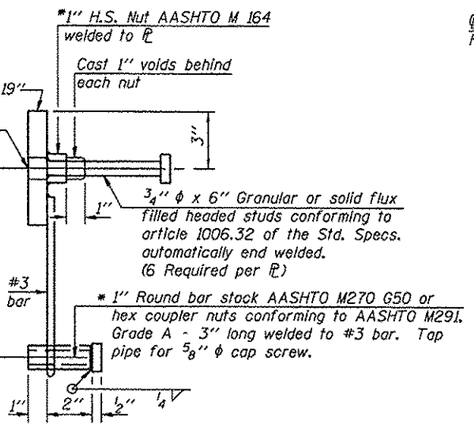
PLAN-BOTT. SPLICE PL TYPICAL

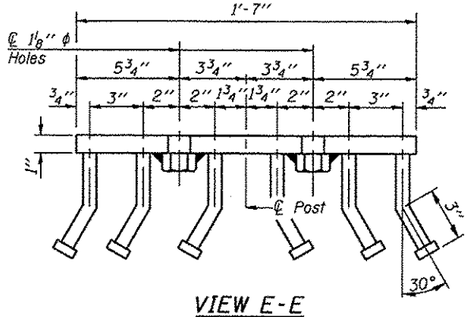


SECTION B-B

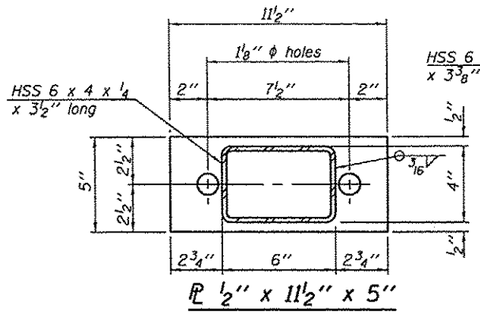


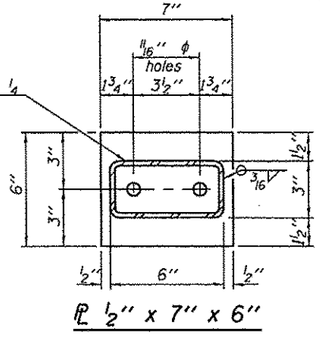
ANCHOR DEVICE





VIEW E-E





*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2½"	1'-8"	2"	4"	2½"
> 4" ≤ 6½"	3¾"	2'-0"	2½"	5½"	3½"
> 6½" ≤ 9"	5"	2'-4"	3½"	6½"	9"
> 9" ≤ 13"	7"	2'-10"	4½"	8½"	11"
Rail Splice	¼"	1'-8"	2"	4"	——

T = Total movement at expansion joint as shown on the design plans.

Notes:

For multi-span bridges, sufficient ¼" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.

Steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	144.0

R-34CWS 1-12-15 (6'-3" Maximum Post Spacing)

DESIGNED	SMK	12/15/2014
DRAWN	MGM	09/29/2015
REVIEWED	JKR	09/29/2015

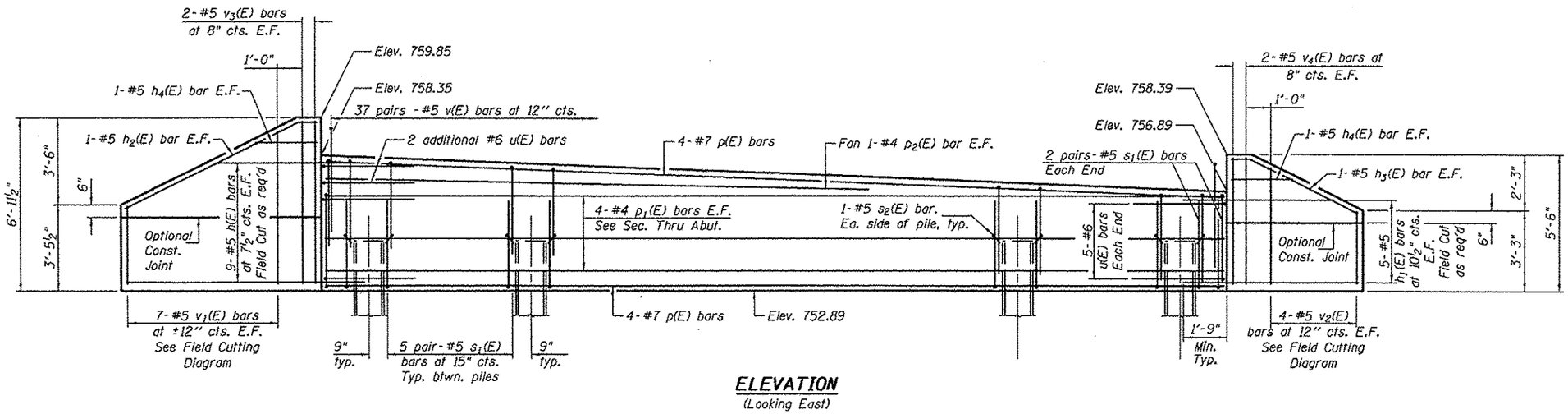
FILE NAME =	USER NAME =	DESIGNED - SMK	REVISED
		CHECKED -	REVISED
	PLOT SCALE =	DRAWN - MGM	REVISED
	PLOT DATE =	CHECKED - JKR	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

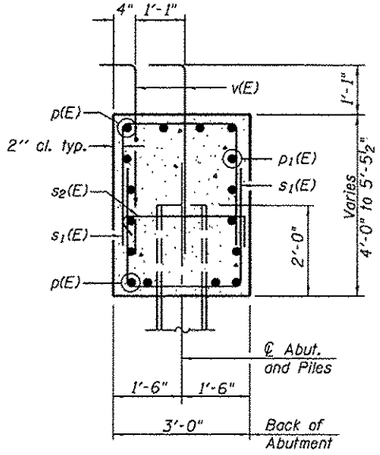
STEEL RAILING, TYPE SM
STRUCTURE NO. 101-3104
SHEET NO. 5 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5200	12-00529-00-BR	WINNEBAGO	20	12
		CONTRACT NO. 85627		
		ILLINOIS FED. AID PROJECT		

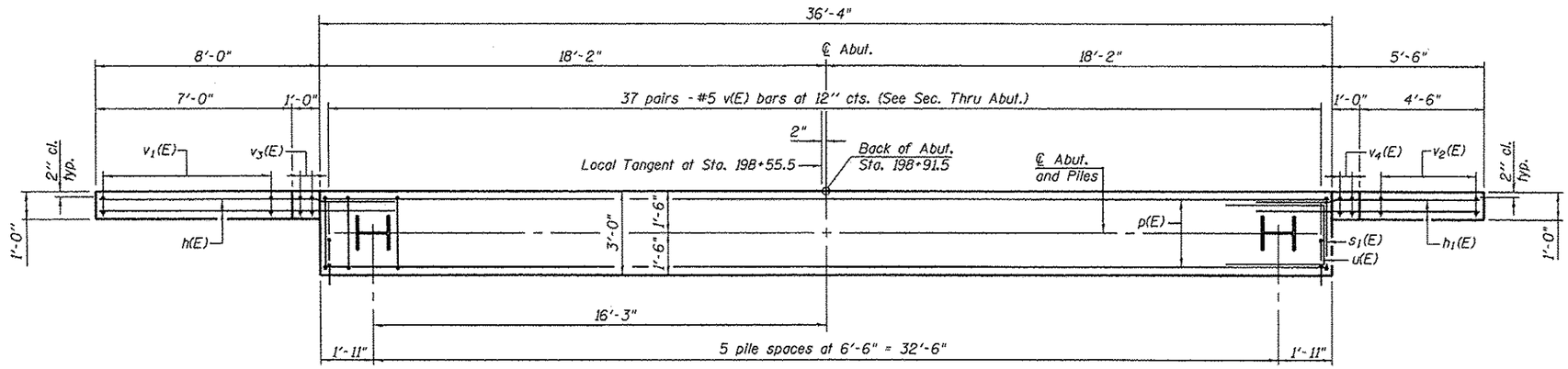
85627



ELEVATION
(Looking East)



SEC. THRU ABUT.



PLAN

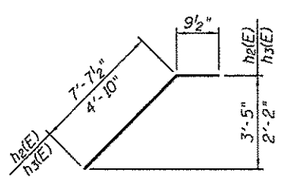
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	18	#5	9'-8"	
h_1(E)	10	#5	7'-2"	
h_2(E)	2	#5	8'-5"	
h_3(E)	2	#5	5'-8"	
h_4(E)	4	#5	2'-8"	
p(E)	8	#7	36'-0"	
p_1(E)	8	#4	36'-0"	
p_2(E)	2	#4	18'-0"	
s_1(E)	58	#5	9'-6"	
s_2(E)	12	#5	3'-8"	
u(E)	12	#6	10'-3"	
v(E)	74	#5	5'-0"	
v_1(E)	7	#5	9'-4"	
v_2(E)	4	#5	7'-7"	
v_3(E)	4	#5	6'-8"	
v_4(E)	4	#5	5'-2"	
Structure Excavation		Cu. Yd.	88.5	
Concrete Structures		Cu. Yd.	21.6	
Reinforcement Bars, Epoxy Coated		Pound	2440	
Furnishing Steel Piles, HP 10x42		Foot	130	
Driving Piles		Foot	130	
Test Pile, HP10x42		Each	1	
Pile Shoes		Each	6	

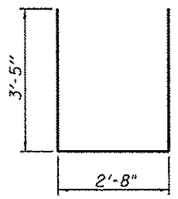
For details of piles see sheet 9 of 10.

PILE DATA

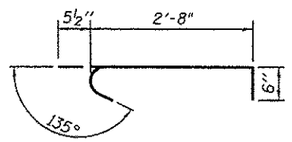
Type: HP 10x42 with pile shoes
Nominal Required Bearing: 300 k
Factored Resistance Available: 165 k
Est. Length: 26 ft.
No. Production Piles: 5
No. Test Piles: 1



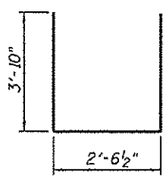
BAR h_2(E) & h_3(E)



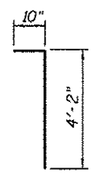
BAR s_1(E)



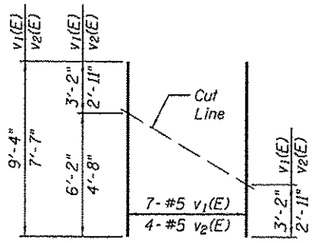
BAR s_2(E)



BAR u(E)



BAR v(E)



FIELD CUTTING DIAGRAM

Order v_1(E) and v_2(E) full length
-Cut as shown and use remainder of bars in opposite face.

DESIGNED	SMK	12/15/2014	
DRAWN	MGM	05/02/2015	
REVIEWED	JKL	05/02/2015	

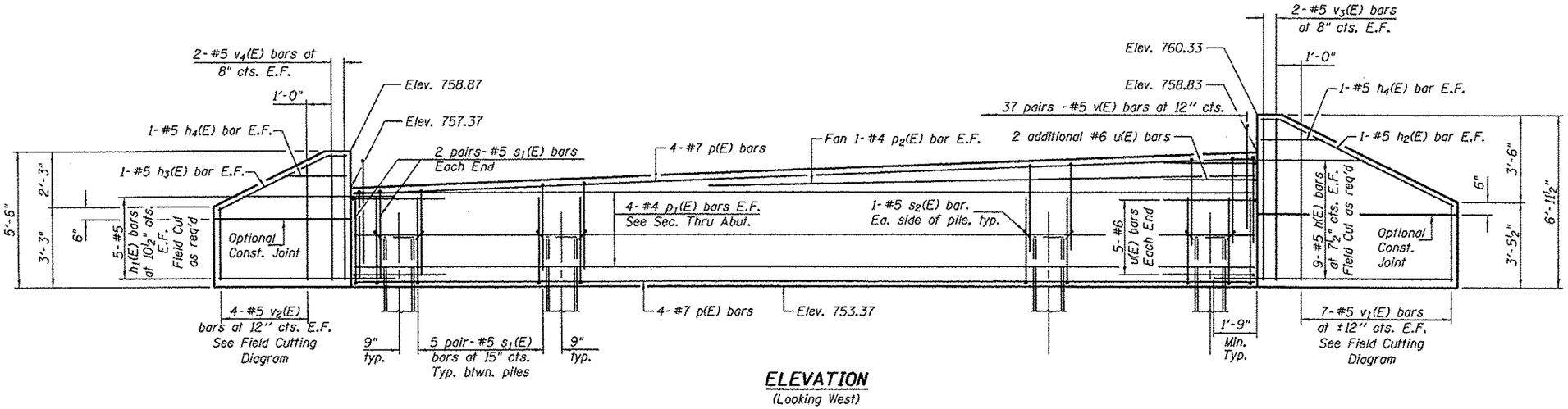
FILE NAME =	USER NAME =	DESIGNED - SMK	REVISED
		CHECKED -	REVISED
	PLOT SCALE =	DRAWN - MGM	REVISED
	PLOT DATE =	CHECKED - JKR	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

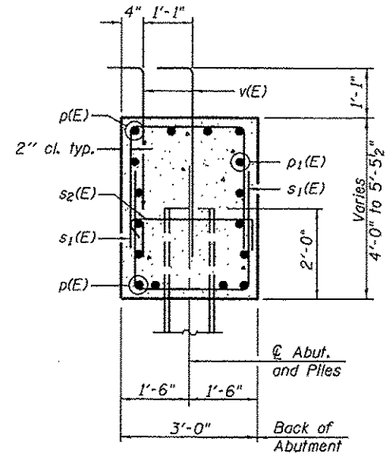
EAST ABUTMENT
STRUCTURE NO. 101-3104
SHEET NO. 6 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5200	12-00529-00-BR	WINNEBAGO	20	13
		CONTRACT NO. 85627		
	ILLINOIS FED. AID PROJECT			

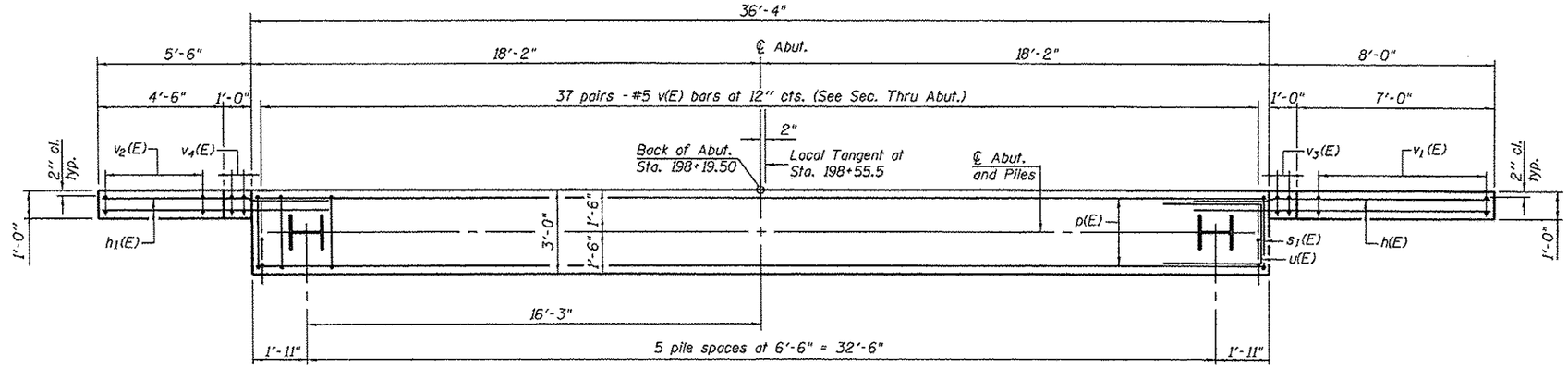
85627



ELEVATION
(Looking West)



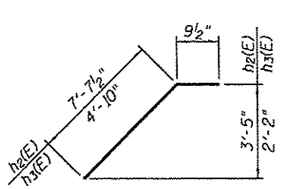
SEC. THRU ABUT.



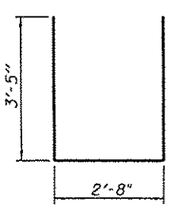
PLAN

PILE DATA

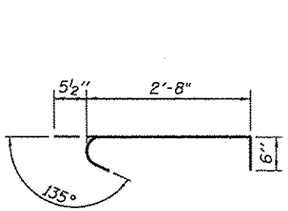
Type: HP 10x42 with pile shoes
Nominal Required Bearing: 300 k
Factored Resistance Available: 165 k
Est. Length: 20 ft.
No. Production Piles: 5
No. Test Piles: 1



BAR $h_2(E)$ & $h_3(E)$



BAR $s_1(E)$



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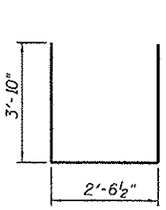
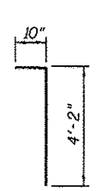
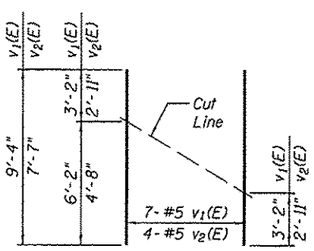


BAR u(E)



BAR v(E)



FIELD CUTTING DIAGRAM

Order $v_1(E)$ and $v_2(E)$ full length -Cut as shown and use remainder of bars in opposite face.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	18	#5	9'-8"	
$h_1(E)$	10	#5	7'-2"	
$h_2(E)$	2	#5	8'-5"	
$h_3(E)$	2	#5	5'-8"	
$h_4(E)$	4	#5	2'-8"	
p(E)	8	#7	36'-0"	
$p_1(E)$	8	#4	36'-0"	
$p_2(E)$	2	#4	18'-0"	
$s_1(E)$	58	#5	9'-6"	
$s_2(E)$	12	#5	3'-8"	
u(E)	12	#6	10'-3"	
v(E)	74	#5	5'-0"	
$v_1(E)$	7	#5	9'-4"	
$v_2(E)$	4	#5	7'-7"	
$v_3(E)$	4	#5	6'-8"	
$v_4(E)$	4	#5	5'-2"	
Structure Excavation			Cu. Yd.	88.5
Concrete Structures			Cu. Yd.	21.6
Reinforcement Bars, Epoxy Coated			Pound	2440
Furnishing Steel Piles, HP 10x42			Foot	100
Driving Piles			Foot	100
Test Pile, HP10x42			Each	1
Pile Shoes			Each	6

For details of piles see sheet 9 of 10.

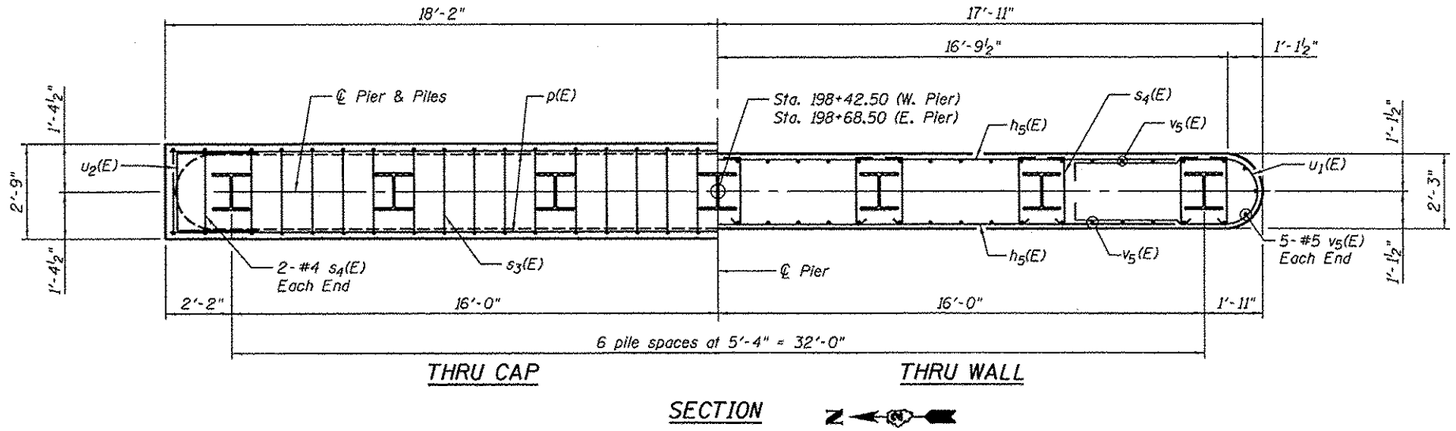
DESIGNED	SMK	12/19/2014	
DRAWN	MGM	05/07/2015	
REVIEWED	JKL	05/07/2015	

FILE NAME =	USER NAME =	DESIGNED - SMK	REVISED
		CHECKED -	REVISED
	PLOT SCALE =	DRAWN - MGM	REVISED
	PLOT DATE =	CHECKED - JKR	REVISED

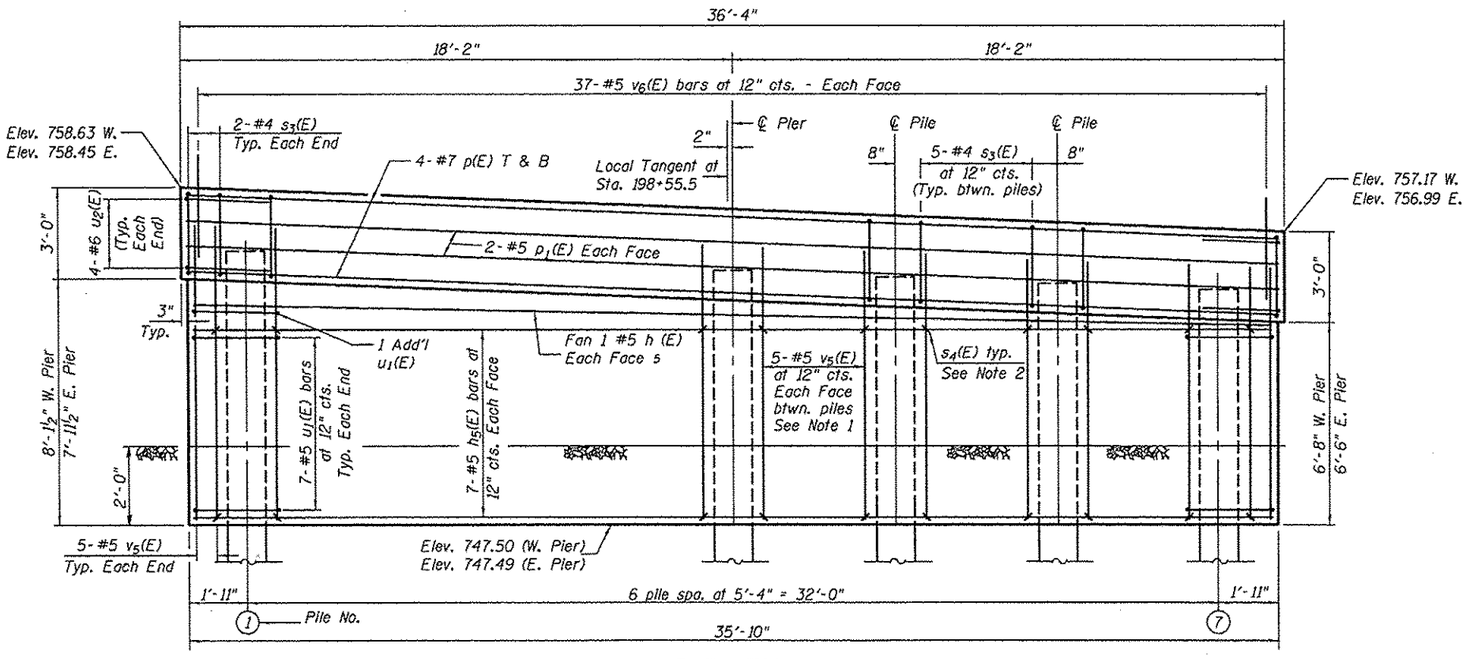
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT
STRUCTURE NO. 101-3104
SHEET NO. 7 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5200	12-00529-00-BR	WINNEBAGO	20	14
		CONTRACT NO. 85627		
		ILLINOIS FED. AID PROJECT		



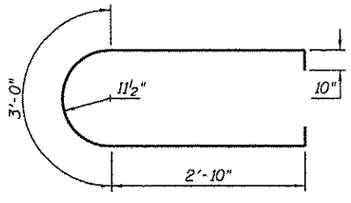
SECTION



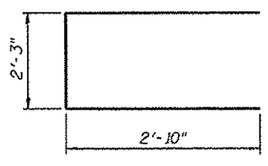
ELEVATION
(Looking East)

Note 1: Space $v_5(E)$ bars between piles to match $s_3(E)$ bars. Field cut $v_5(E)$ near low end as required to fit within cap. Minimum embedment into cap = 1'-11".

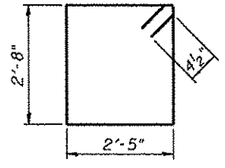
Note 2: Place #4 $s_4(E)$ bars at 12" cts. at vertical $v_5(E)$ bars on each side on pile.



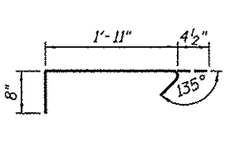
BARS $u_1(E)$



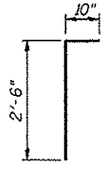
BARS $u_2(E)$



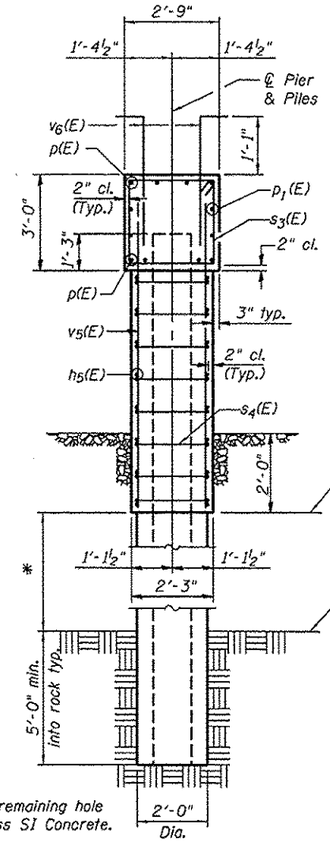
BAR $s_3(E)$



BAR $s_4(E)$



BAR $v_6(E)$



* Backfill remaining hole with Class SI Concrete.

SECTION THRU PIER

BILL OF MATERIAL FOR TWO PIERS

85627

Bar	No.	Size	Length	Shape
$h_5(E)$	32	#5	33'-6"	
$p(E)$	16	#7	36'-0"	
$p_1(E)$	8	#5	36'-0"	
$s_3(E)$	68	#4	10'-11"	
$s_4(E)$	196	#4	3'-0"	
$u_1(E)$	30	#5	10'-4"	
$u_2(E)$	16	#6	7'-11"	
$v_5(E)$	140	#5	9'-11"	
$v_6(E)$	148	#5	3'-4"	

Structure Excavation	Cu. Yd.	37
Concrete Structures	Cu. Yd.	65.9
Reinf. Bars, Epoxy Coated	Lbs.	5,960
Furn. Steel Piles, HP12x53	Foot	357
Cofferdam (Type 1) (Loc. 1)	Each	2
Setting Piles in Rock	Each	14

NOTES:

See Sheet 9 of 10 for Pile Details.

If a portion of the pier wall is underwater, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

PILE DATA

Type: HP12x53
Nominal Required Bearing: Set in Rock
Factored Resistance Available: 230 k (Both Piers)
Est. Length: 28 ft. (W. Pier) 23 ft. (E. Pier)
No. Production Piles: 14 (7 per pier)
No. Test Piles: 0

PILE CUT-OFF ELEVATION TABLE

Location	1	2	3	4	5	6	7
West Pier	756.78	756.57	756.36	756.14	755.93	755.72	755.50
East Pier	756.61	756.39	756.18	755.97	755.75	755.54	755.33

DESIGNED	SMK	12/15/2014	
DRAWN	MGM	06/26/2015	
REVIEWED	JKR	06/26/2015	

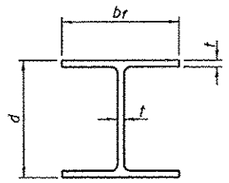
FILE NAME =	USER NAME =	DESIGNED - SMK	REVISED
		CHECKED -	REVISED
	PLOT SCALE =	DRAWN - MGM	REVISED
	PLOT DATE =	CHECKED - JKR	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIERS
STRUCTURE NO. 101-3104
SHEET NO. 8 OF 10 SHEETS

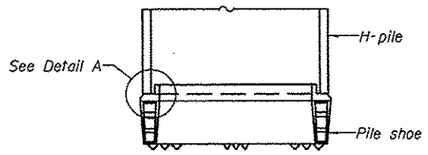
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5200	12-00529-00-BR	WINNEBAGO	20	15
		CONTRACT NO. 85627		
		ILLINOIS FED. AID PROJECT		

85627

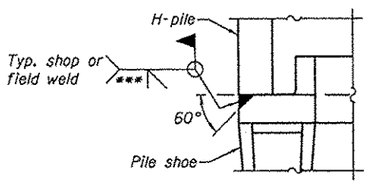


STEEL PILE TABLE

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

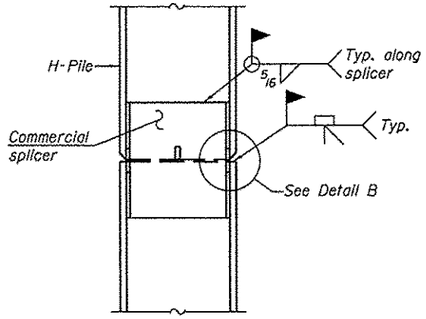


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



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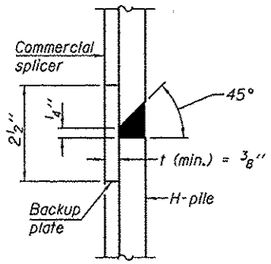
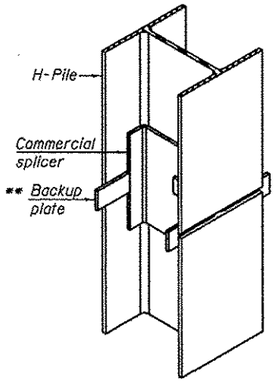
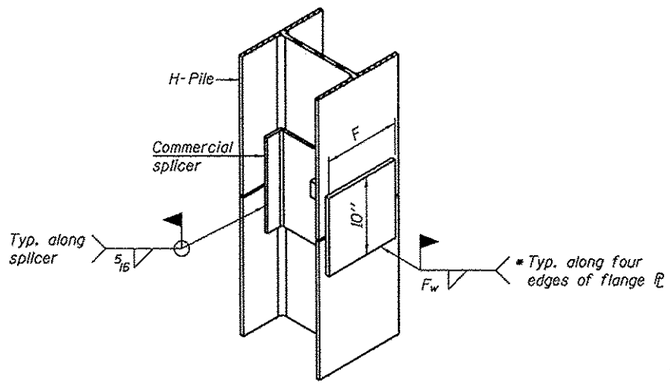


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



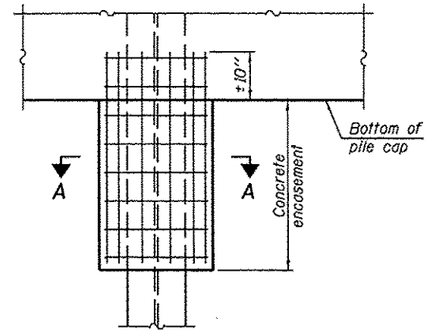
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

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

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

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



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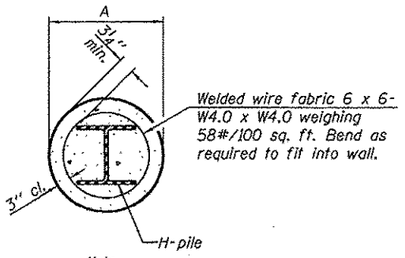
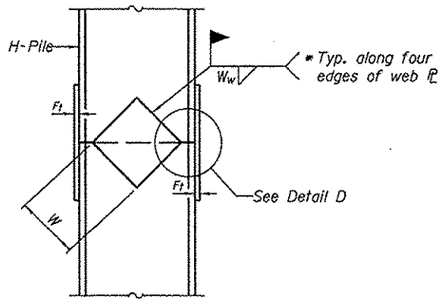


Note:
Forms for encasement may be omitted when soil conditions permit.

SECTION A-A

PILE ENCASEMENT



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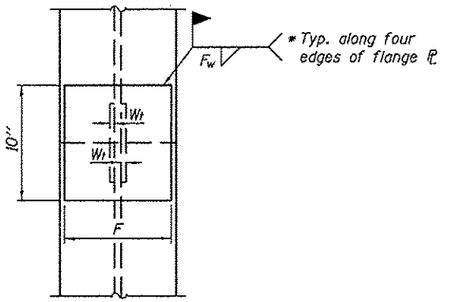
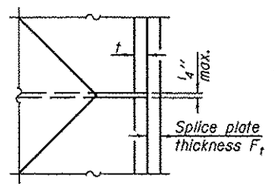


END VIEW



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"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

WELDED PLATE FIELD SPLICE

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

DESIGNED	SMK	12/15/2014
DRAWN	MGM	05/20/2015
RECHECKED	JKL	05/20/2015

F-HP 1-27-12

FILE NAME =	USER NAME =	DESIGNED - SMK	REVISED
		CHECKED -	REVISED
	PLOT SCALE =	DRAWN - MGM	REVISED
	PLOT DATE =	CHECKED - JKR	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 101-3104
SHEET NO. 9 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5200	12-00529-00-BR	WINNEBAGO	20	16
		CONTRACT NO. 85627		
	ILLINOIS	FED. AID PROJECT		

85627

Illinois Department of Transportation
Division of Highways
Terracon

SOIL BORING LOG

Page 1 of 1

Date 3/6/15

ROUTE County Highway 49 DESCRIPTION Cunningham Road Bridge LOGGED BY JACK

SECTION 12-00529-00-BR LOCATION Hwy 49, SEC. 3, TWP. T44N, RNG. 1E,
Latitude , Longitude

COUNTY Winnebago DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 101-3104
Station

BORING NO. 1
Station 198+30
Offset 7.0 ft LT
Ground Surface Elev. 759.20 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 745.2 ft ▼
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT, Approx 7" 758.60				**SAND**, gray, very loose to medium dense *(continued)* with rock fragments			
FILL: CRUSHED STONE BASE (CA-6 TYPE), Approx. 3" 758.35	23				5		
FILL: CRUSHED STONE BASE (CA-6 TYPE)	50/5"		15		7 9		
755.70							
FILL: CLAY, trace organics, black and dark brown	11			735.20	15		
	24 32		10	***HIGHLY WEATHERED DOLOMITE**, light brown	50/1"		
-5	3			-25			
	4 4	2.0 P	17		50/3"		
	5			730.50	50/2"		
	3 5	1.0 P	25	*** Rock description is based on drilling characteristics and visual observation, coring and petrographic analysis may revel another rock type. End of Boring			
-10				-30			
	2						
	3 5	0.5 P	47				
745.20 ▼	5						
SAND, gray, very loose to medium dense	6 7		11				
-15				-35			
	1						
	1 1		18				
	3						
-20	3 3		15	-40			

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

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Terracon

SOIL BORING LOG

Page 1 of 1

Date 3/6/15

ROUTE County Highway 49 DESCRIPTION Cunningham Road Bridge LOGGED BY JACK

SECTION 12-00529-00-BR LOCATION Hwy 49, SEC. 3, TWP. T44N, RNG. 1E,
Latitude , Longitude

COUNTY Winnebago DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 101-3104
Station

BORING NO. 2
Station 198+87
Offset 6.0 ft RT
Ground Surface Elev. 759.00 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 743.0 ft ▼
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
ASPHALT, Approx. 6" 758.50							
FILL: CRUSHED STONE BASE (CA-6 TYPE), Approx. 3" 758.20	21						
FILL: CLAY, TRACE ORGANICS, black and dark brown	50/4"		15				
	7						
	8	1.5	10	*** Rock description is based on drilling characteristics and visual observation, coring and petrographic analysis may revel another rock type. End of Boring			
-5	11	P		-25			
	2						
	3	1.0	17				
	3	P					
751.00							
FILL: SILTY CLAY, TRACE ORGANICS, black and dark gray	4						
	5	1.0	7				
-10	12	P		-30			
	2						
	2	0.5	47				
	2	P					
746.00							
CLAY, brown and gray, very stiff	5						
	8		11				
-15	10			-35			
743.00 ▼							
SAND, with rock fragments, medium dense	10						
	13		18				
	14						
740.00	12						
***HIGHLY WEATHERED DOLOMITE**, light brown 739.00	50/2"		15				
-20				-40			

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

BBS, form 137 (Rev. 8-99)

DESIGNED	SMK	12/15/2014	
DRAWN	MGM	03/20/2015	
REVIEWED	JKL	03/20/2015	

FILE NAME =

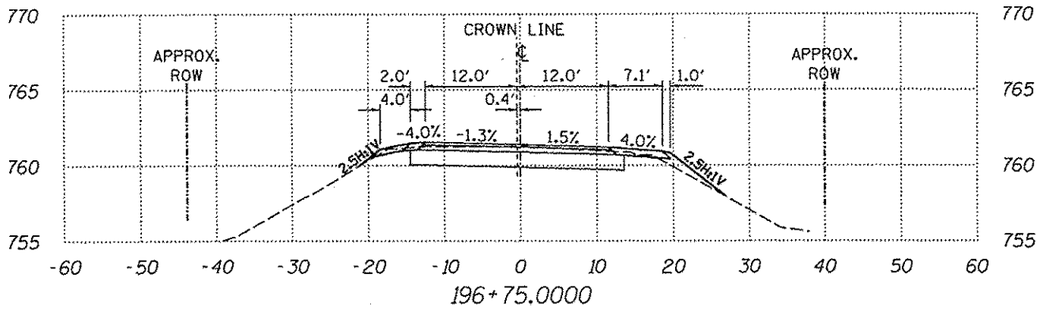
USER NAME =	DESIGNED - SMK	REVISED
	CHECKED -	REVISED
PLOT SCALE =	DRAWN - MGM	REVISED
PLOT DATE =	CHECKED - JKR	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

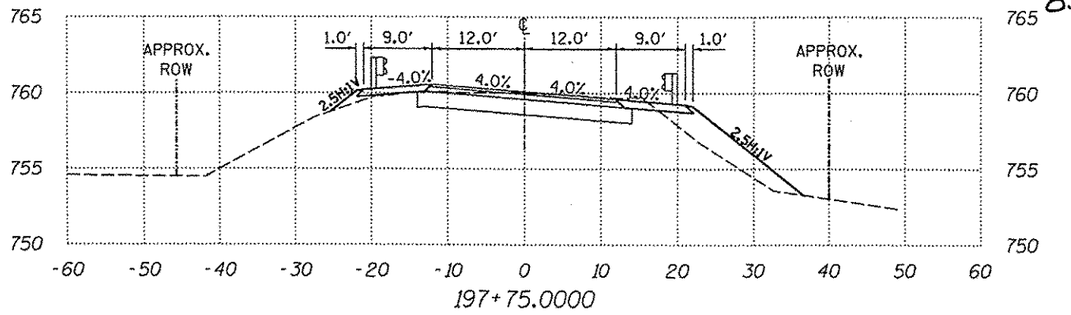
BORING LOGS
STRUCTURE NO. 101-3104
SHEET NO. 10 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5200	12-00529-00-BR	WINNEBAGO	20	17
		CONTRACT NO. 85627		
	ILLINOIS	FED. AID PROJECT		

85627



196+75.0000



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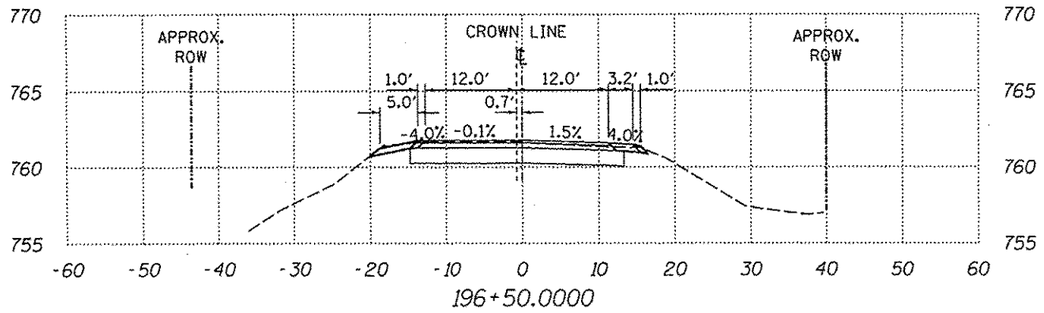

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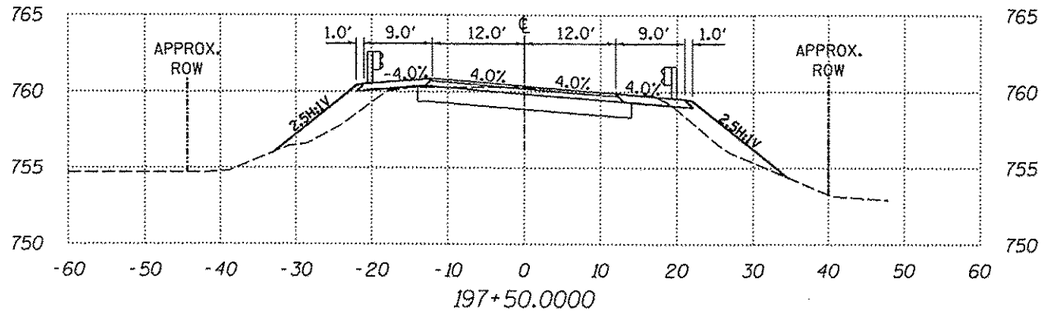

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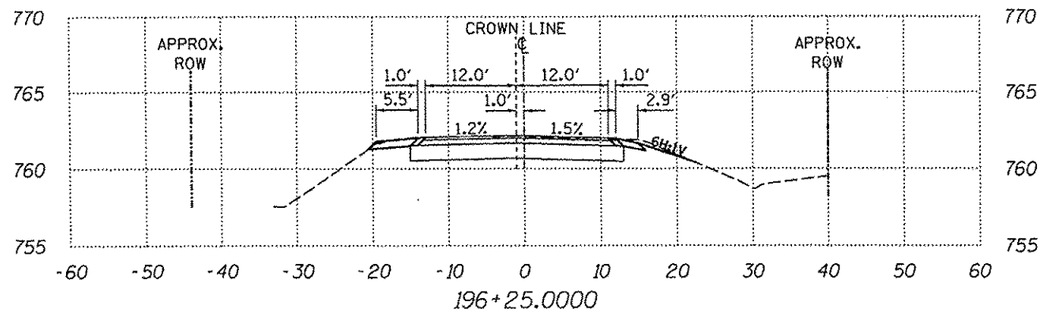

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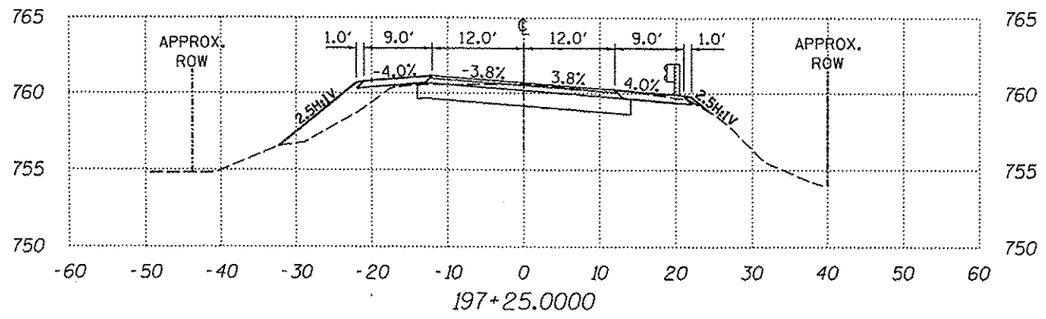

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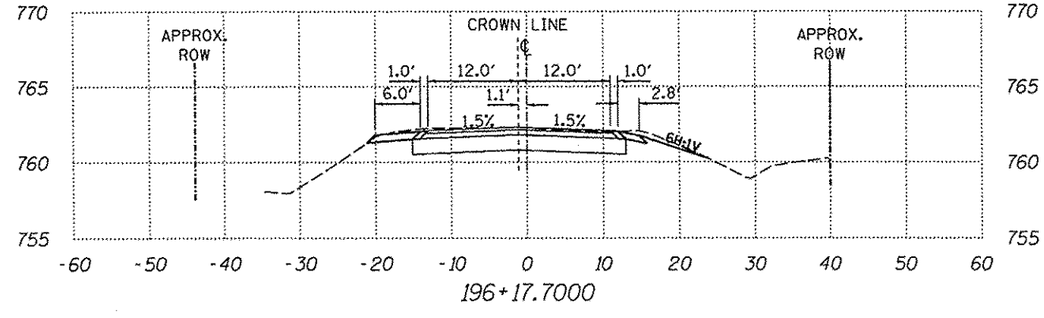

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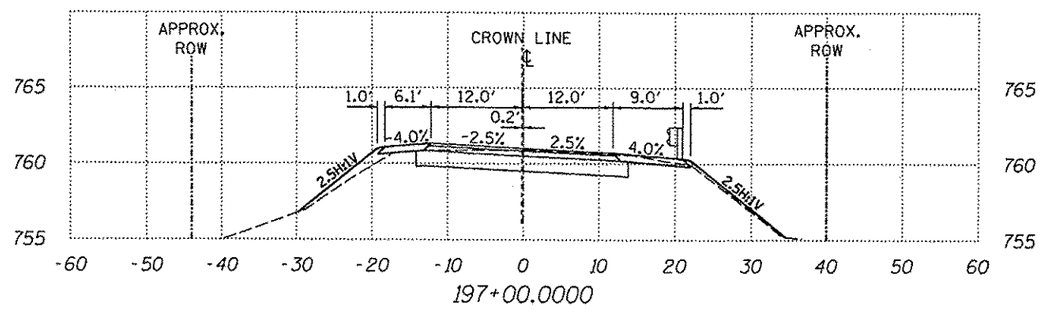

197+00.0000

LAYOUT	JDM	11/13/14
DRAWN	JDM	05/01/15
REVIEWED	DPA	05/01/15

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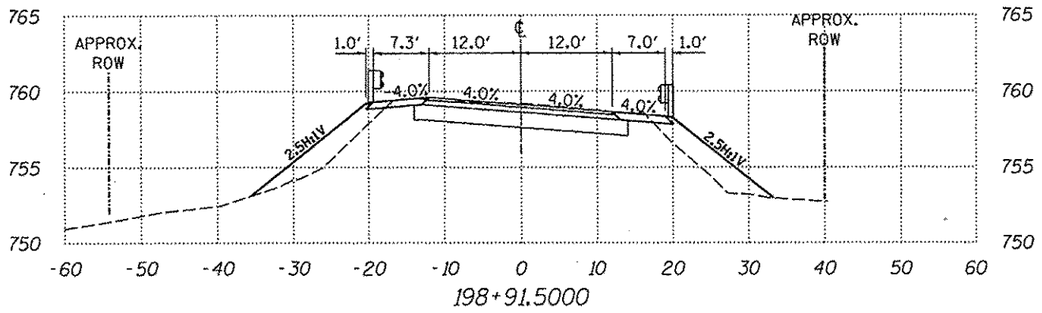
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
CUNNINGHAM ROAD BRIDGE REPLACEMENT
ROCKFORD, ILLINOIS

SHEET NO. OF SHEETS STA. 196+85.45 TO STA. 197+75.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5200	12-00529-00-BR	WINNEBAGO	20	18
		CONTRACT NO. 85627		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

85627



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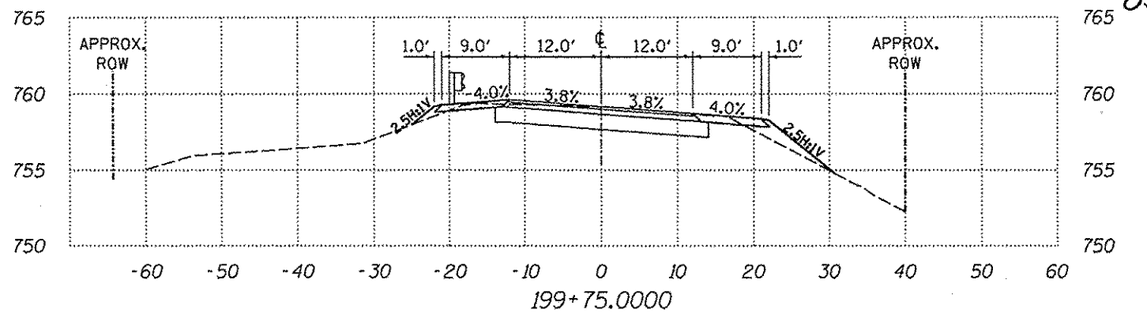

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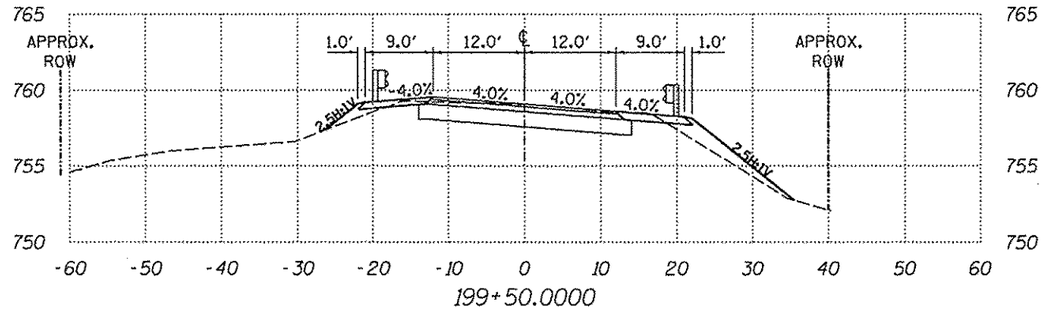
BRIDGE OMISSION STA. 198+19.50 TO 198+91.50



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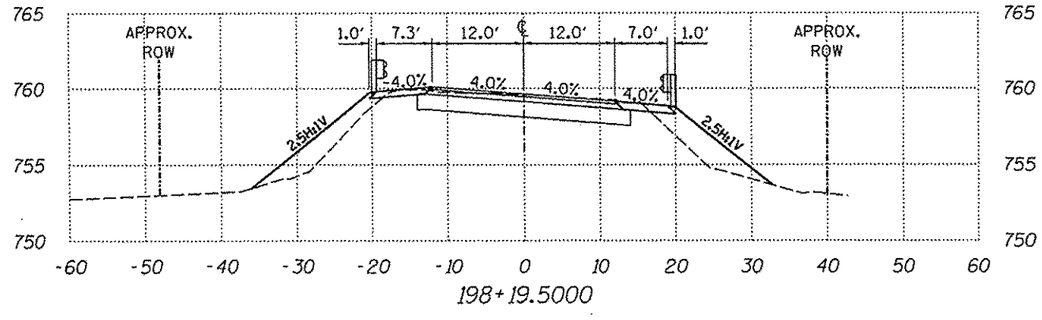

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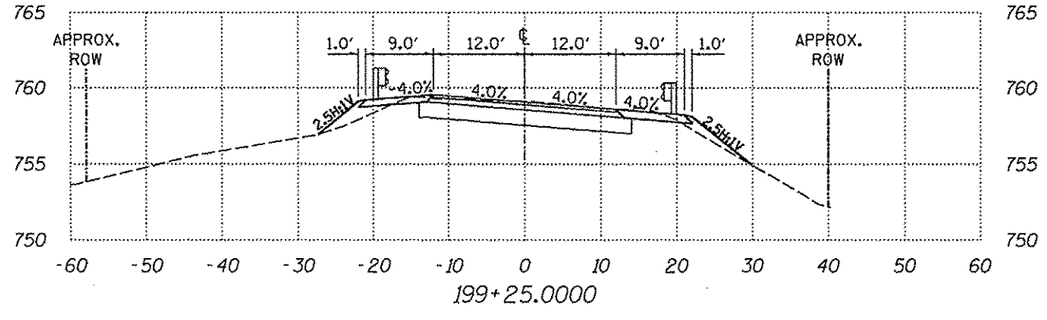

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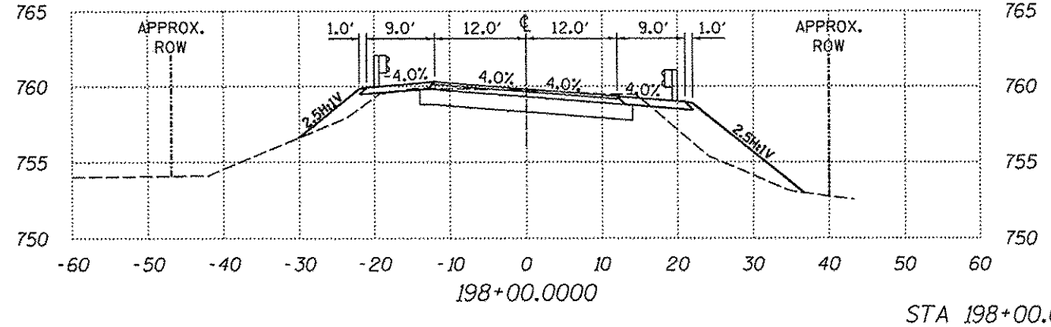

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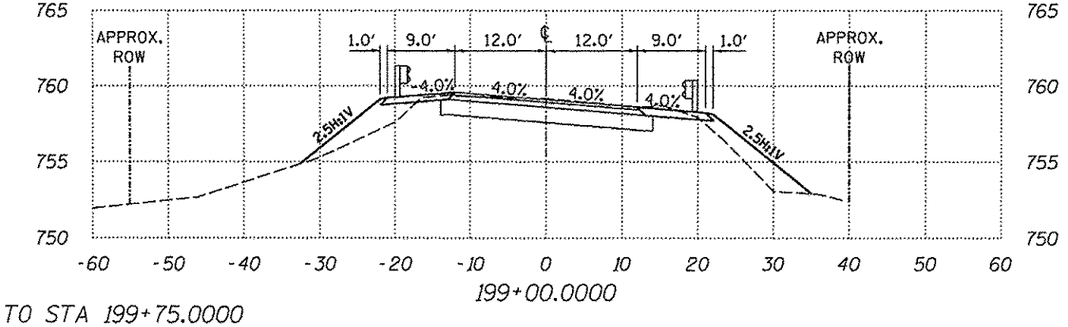

199+00.0000

STA 198+00.0000 TO STA 199+75.0000

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DRAWN	JDM	05/01/15
REVIEWED	DPA	05/01/15

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STATE OF ILLINOIS
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CUNNINGHAM ROAD BRIDGE REPLACEMENT
ROCKFORD, ILLINOIS

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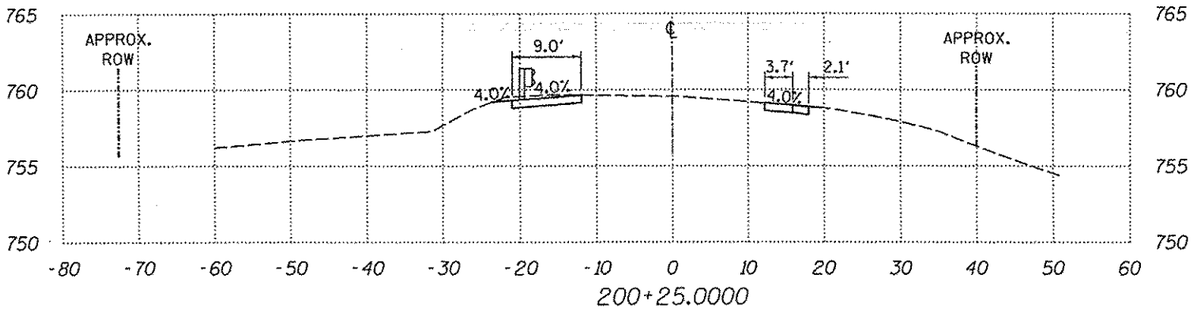
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5200	12-00529-00-BR	WINNEBAGO	20	19
		CONTRACT NO. 85627		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

85627



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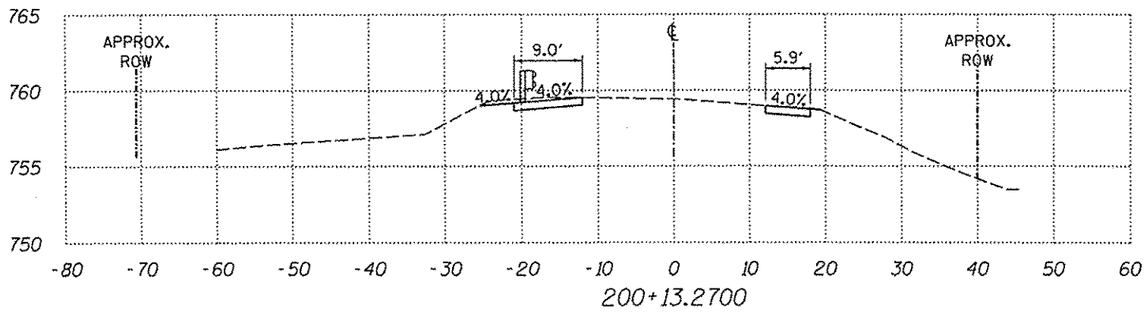

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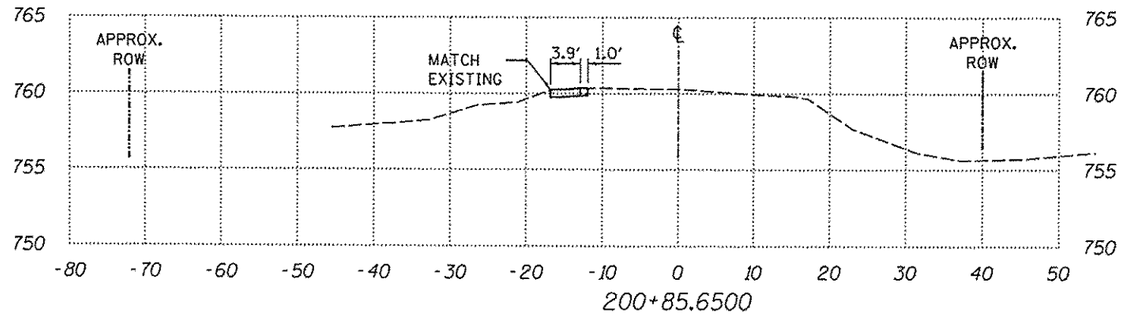

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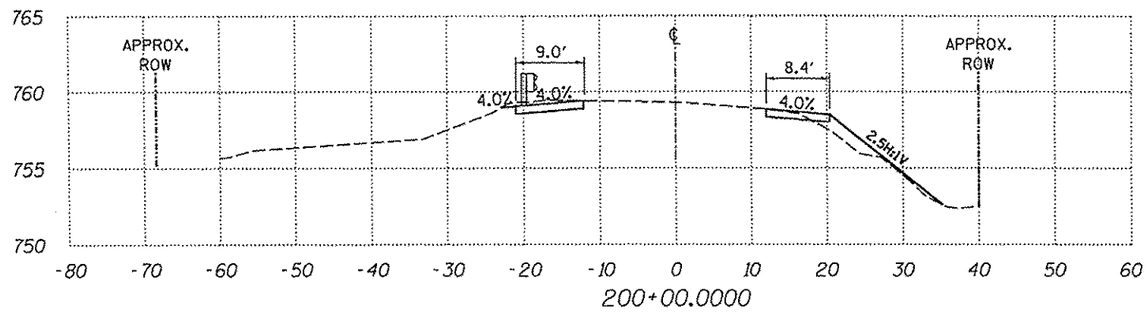

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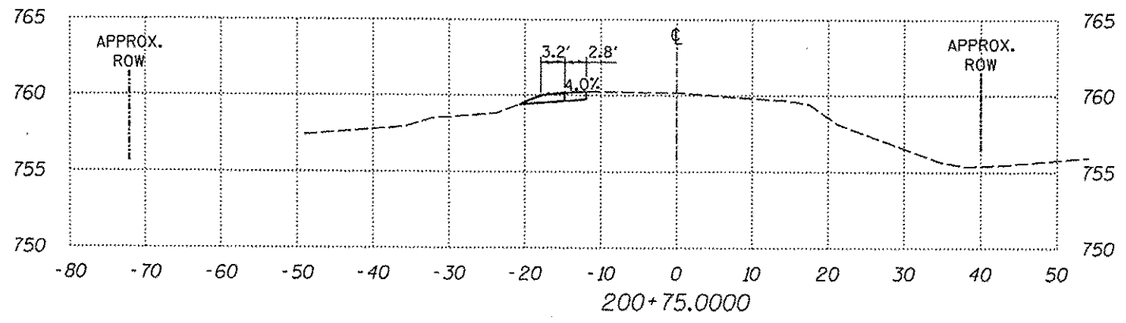

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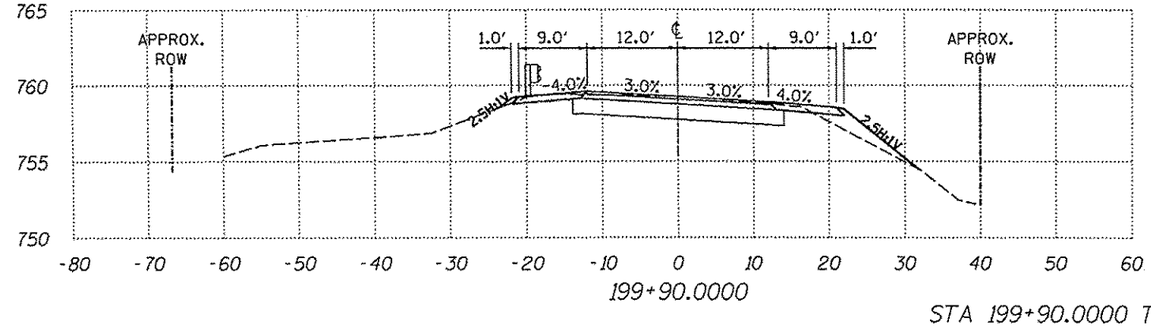

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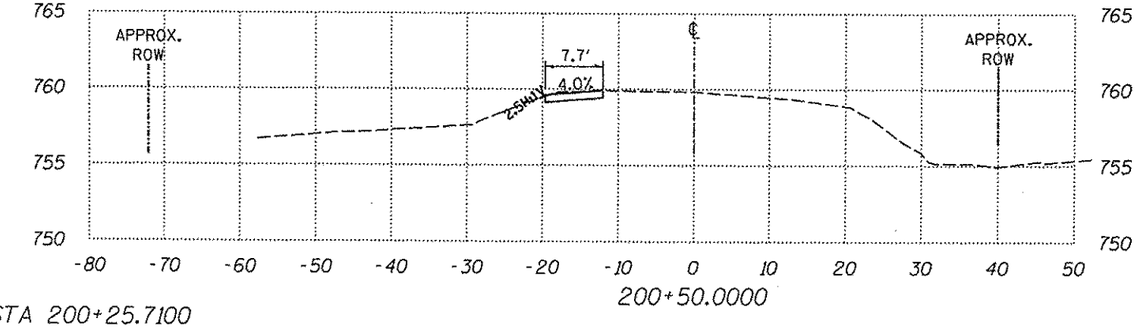

200+50.0000

STA 199+90.0000 TO STA 200+25.7100

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REVISED	DPA	10/30/2015

Modor00377
10/30/2015
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ROCKFORD, ILLINOIS

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5200	12-00529-00-BR	WINNEBAGO	20	20
		CONTRACT NO. 85627		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		