

04-23-2021 LETTING ITEM 162

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	05-00210-00-BR	DEKALB	36	1
		ILLINOIS	CONTRACT NO. 87622	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 2



CiorbaGroup
CONSULTING ENGINEERS
DESIGN FIRM REGISTRATION NUMBER: 184-001016
8725 W. Higgins Road, Suite 600 | Chicago, IL 60631
P 773.775.4009 | www.ciorba.com

PROPOSED HIGHWAY PLANS

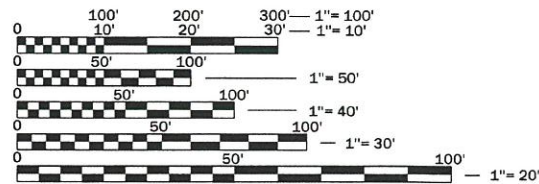
FAS ROUTE 172 (SUYDAM ROAD)
SECTION NO.: 05-00210-00-BR
PROJECT NO.: T2LN(974)
BRIDGE REPLACEMENT
DEKALB COUNTY

C-93-111-16

EXISTING S.N. 019-3014
PROPOSED S.N. 019-3077
STA 75+51.93
THREE-SPAN REINFORCED CONCRETE
CAST-IN-PLACE SLAB STRUCTURE

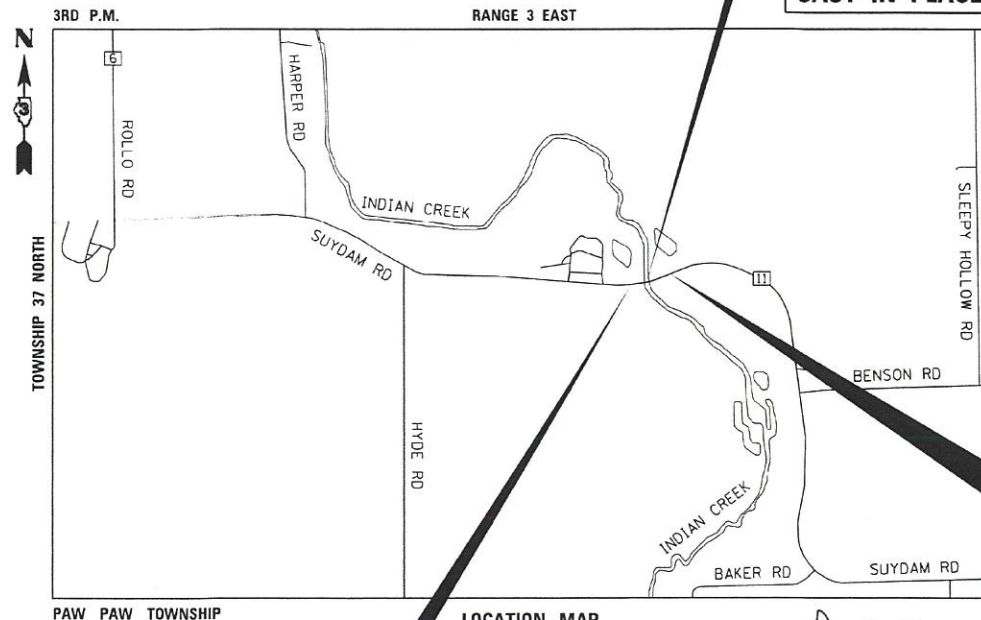
TRAFFIC DATA:

SUYDAM ROAD:
FUNCTIONAL CLASS = MAJOR COLLECTOR
ADT (2018) = 450
ADT (2041) = 724
DESIGN SPEED = 50 MPH
POSTED SPEED = 55 MPH
TRAFFIC FACTOR = 0.11 (HMA-20)



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

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

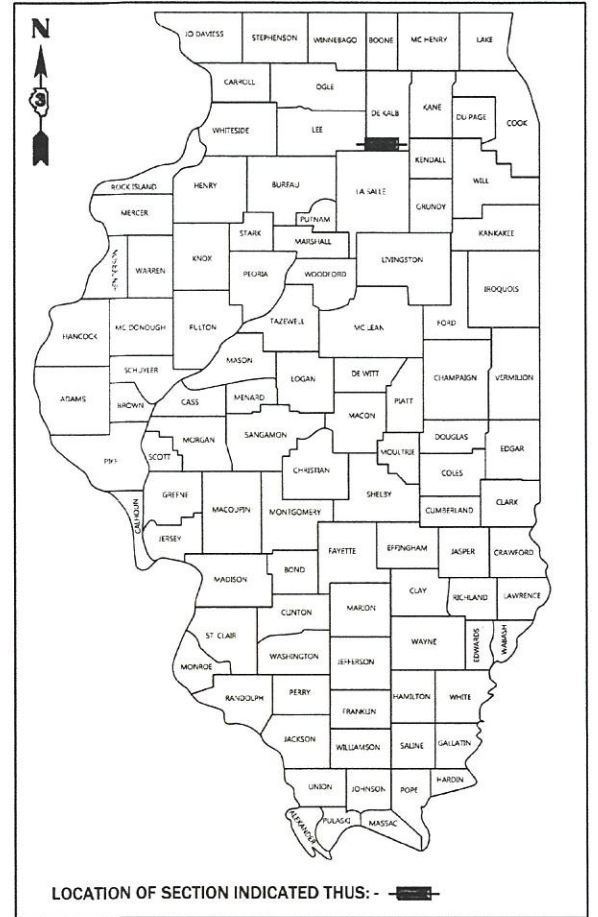


PROJECT BEGINS
STA 71+80.00

PROJECT ENDS
STA 80+70.00

PROJECT LENGTH

GROSS LENGTH = 890.00 FT. = 0.169 MILE
NET LENGTH = 890.00 FT. = 0.169 MILE



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED January 5 20 21
[Signature]
DEKALB COUNTY HIGHWAY DEPARTMENT, COUNTY ENGINEER

PASSED January 8, 20 21
[Signature]
DISTRICT 3 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW January 8, 20 21
[Signature]
REGIONAL ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS



DATE: 1/5/2021
SEAL EXPIRES: 11/30/2022

DATE: 1/5/2021
SEAL EXPIRES: 11/30/2021

CONTRACT NO. 87662

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX, STANDARDS, AND GENERAL NOTES
3 - 4	SUMMARY OF QUANTITIES
5	TYPICAL SECTIONS
6	SCHEDULE OF QUANTITIES
7	SUPERELEVATION TRANSITION DETAIL
8	ALIGNMENT, TIES, AND BENCHMARKS
9	EXISTING CONDITIONS AND REMOVAL PLAN
10	PROPOSED PLAN AND PROFILE
11	DETOUR PLAN
12	EROSION CONTROL PLAN
13 - 29	STRUCTURAL PLANS
30 - 32	MISCELLANEOUS DETAILS
33 - 36	SUYDAM ROAD CROSS SECTIONS

LIST OF IDOT HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-04	NAME PLATE FOR BRIDGES
542011-02	CONCRETE END SECTIONS FOR ELLIPTICAL PIPE CULVERTS 15" THRU 72" EQRS
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
664001-02	CHAIN LINK FENCE
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTORS MOUNTING DETAILS
BLR 17-4	TRAFFIC CONTROL DEVICES - DAY LABOR CONSTRUCTION
BLR 21-9	TRAFFIC APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

LIST OF IDOT DISTRICT 3 DETAILS

251-2	EROSION CONTROL BLANKET LINING AROUND END SECTION
280-1	EROSION CONTROL FOR SILT FENCE [REVISED PER PLAN]
402-1	FIELD ENTRANCE DETAIL
406-8	HMA DETAIL AT BUTT JOINTS
406-9	BUTT JOINT DETAIL [REVISED PER PLAN]
420-4	SUPERELEVATION TRANSITION ON TWO-LANE HIGHWAY [REVISED PER PLAN]
780-8	PAVEMENT MARKING

GENERAL NOTES

- ANY REFERENCE TO THE STANDARD SPECIFICATIONS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) STANDARD SPECIFICATIONS, ADOPTED APRIL 1, 2016, AND THE JANUARY 1, 2021 SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.
- ITEMS OF WORK LISTED IN THE SUMMARY OF QUANTITIES WHICH ARE NOT SPECIFICALLY INDICATED IN THE PLANS SHALL BE PERFORMED AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- THE THICKNESS OF HMA MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.
- THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.
- EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- ON EXISTING PAVEMENT WHICH MAY BE SUPER ELEVATED, THE NEW HMA PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.
- BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.
- THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES (100 MILLIMETERS) IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF TOPSOIL FURNISH AND PLACE, 4".
- ALL EXCAVATED MATERIAL, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS, MUST BE INCORPORATED WITHIN THE IDOT RIGHT OF WAY.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER, HIS AGENT, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
- ALL ELEVATIONS ARE ON THE NGVD 29 DATUM.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THE CONTRACT.
- SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.
- THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION. THE CONTRACTOR IS PROHIBITED FROM BURNING ANY MATERIAL WITHIN OR ADJACENT TO THE IMPROVEMENT.
- THE SUBGRADE SHALL BE KEPT DRAINED DURING CONSTRUCTION OF THE PAVEMENT STRUCTURE. THE CONTRACT SHALL FACILITATE SURFACE DRAINAGE BY CUTTING WEEPS IN THE SUBGRADE OR ADJACENT TERRAIN AS NECESSARY. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ALL WORK SHALL BE PERFORMED IN DAYLIGHT HOURS ONLY.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

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

UTILITIES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH AL UTILITY OWNERS IN ACCORDANCE WITH THE STANDARDS SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROJECTION IS NECESSARY.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF EARTH EXCAVATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL THE UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN ON THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.

COMMITMENTS

- TREES 3 INCHES OR GREATER IN DIAMETER AT BREAST HEIGHT WILL NOT BE CLEARED APRIL 1 THROUGH SEPTEMBER 30.
- THE COUNTY WILL ADD CHEVRONS AND ADVANCE CURVE WARNING SIGNS, AS WELL AS REMOVE BRIDGE LOAD RESTRICTION SIGNS PRIOR TO THE COMPLETION DATE.
- THE COUNTY WILL PROVIDE CONSTRUCTION AND DETOUR INFORMATION SIGNING PRIOR TO CONSTRUCTION.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUYDAM ROAD (FAS 172) OVER INDIAN CREEK
INDEX, STANDARDS, AND GENERAL NOTES**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	05-00210-00-BR	DEKALB	36	2
CONTRACT NO.			87662	
ILLINOIS		FED. AID PROJECT		

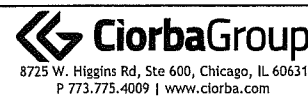
SPECIALTY ITEM	SP	CODE NO.	ITEM	UNIT	TOTAL	80% FED / 20% STATE	
						RDWY 0004	BRIDGE REPLACE 0010
		20200100	EARTH EXCAVATION	CU YD	1,300	1,300	
		20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	340	340	
		21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3,193	3,193	
		25000200	SEEDING, CLASS 2	ACRE	0.5	0.5	
		25000314	SEEDING, CLASS 4B	ACRE	0.5	0.5	
		25000400	NITROGEN FERTILIZER NUTRIENT	POUND	60	60	
		25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	60	60	
		25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	60	60	
		25100630	EROSION CONTROL BLANKET	SQ YD	996	996	
		25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	2,198	2,198	
		28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	66	66	
		28000305	TEMPORARY DITCH CHECKS	FOOT	180	180	
		28000400	PERIMETER EROSION BARRIER	FOOT	1,107	1,107	
		28100105	STONE RIPRAP, CLASS A3	SQ YD	40	40	

SPECIALTY ITEM	SP	CODE NO.	ITEM	UNIT	TOTAL	80% FED / 20% STATE	
						RDWY 0004	BRIDGE REPLACE 0010
		28100107	STONE RIPRAP, CLASS A4	SQ YD	538		538
		28200200	FILTER FABRIC	SQ YD	578	40	538
		31100910	SUBBASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	1,910	1,910	
		40200900	AGGREGATE SURFACE COURSE, TYPE B	CU YD	17	17	
		40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	875	875	
		40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	289	289	
		40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	344	344	
		40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	184	184	
		44000100	PAVEMENT REMOVAL	SQ YD	1,380	1,380	
		48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	699	699	
		50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
		50105220	PIPE CULVERT REMOVAL	FOOT	32	32	
		50200100	STRUCTURE EXCAVATION	CU YD	216		216
		50300225	CONCRETE STRUCTURES	CU YD	120.4		120.4

△ DENOTES SPECIALTY ITEM

* INDICATES SPECIAL PROVISION.

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	DRAWN - TJC	REVISED -
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PLOT DATE = 1/5/2021	DATE - 1/5/2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUYDAM ROAD (FAS 172) OVER INDIAN CREEK
 SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

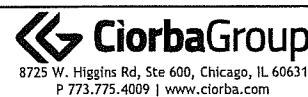
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172	05-00210-00-BR	DEKALB	36	3
CONTRACT NO.			87662	
ILLINOIS FED. AID PROJECT				

SPECIALTY ITEM	SP	CODE NO.	ITEM	UNIT	TOTAL	80% FED / 20% STATE	
						RDWY 0004	BRIDGE REPLACE 0010
		50300255	CONCRETE SUPERSTRUCTURE	CU YD	184.8		184.8
		50300260	BRIDGE DECK GROOVING	SQ YD	340		340
		50300300	PROTECTIVE COAT	SQ YD	404		404
		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	67,070		67,070
△		50901050	STEEL RAILING, TYPE SM	FOOT	208		208
		51200959	FURNISHING METAL SHELL PILES 14" X 0.312"	FOOT	1,162		1,162
		51202305	DRIVING PILES	FOOT	1,162		1,162
		51203200	TEST PILE METAL SHELLS	EACH	4		4
		51500100	NAME PLATES	EACH	1		1
		58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	96		96
		59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	68		68
△		63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	362.5	362.5	
△		63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4	
△		63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	

SPECIALTY ITEM	SP	CODE NO.	ITEM	UNIT	TOTAL	80% FED / 20% STATE	
						RDWY 0004	BRIDGE REPLACE 0010
		63200310	GUARDRAIL REMOVAL	FOOT	323	323	
		67100100	MOBILIZATION	L SUM	1	1	
△		78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3,560	3,560	
△		78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	11	11	
	*	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
	*	Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	143	143	
	*	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	144		144
	*	X1200094	PIPE CULVERTS, SPECIAL	FOOT	40	40	
	*	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	

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△ DENOTES SPECIALTY ITEM
 * INDICATES SPECIAL PROVISION



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PLOT DATE = 1/5/2021	DATE - 1/5/2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUYDAM ROAD (FAS 172) OVER INDIAN CREEK
 SUMMARY OF QUANTITIES

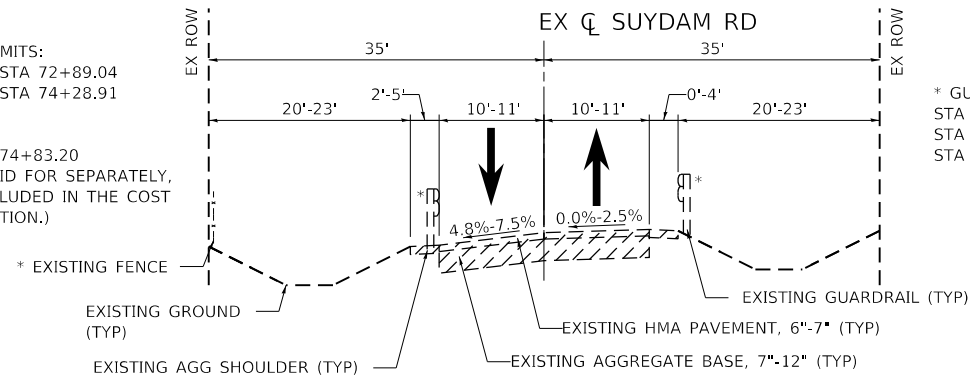
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SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.			CONTRACT NO. 87662	
ILLINOIS FED. AID PROJECT				

LEGEND



EXISTING FENCE LIMITS:
STA 72+36.35 TO STA 72+89.04
STA 73+43.21 TO STA 74+28.91

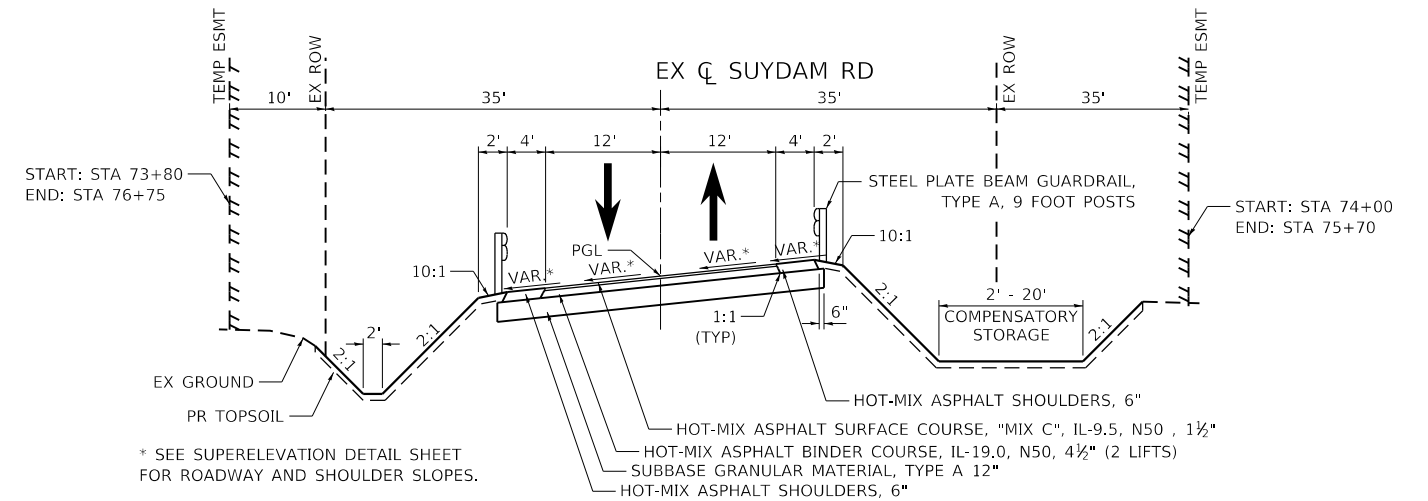
* REMOVE FENCE:
STA 73+80.00 TO 74+83.20
(SHALL NOT BE PAID FOR SEPARATELY,
BUT SHALL BE INCLUDED IN THE COST
OF EARTH EXCAVATION.)



EXISTING TYPICAL SECTION

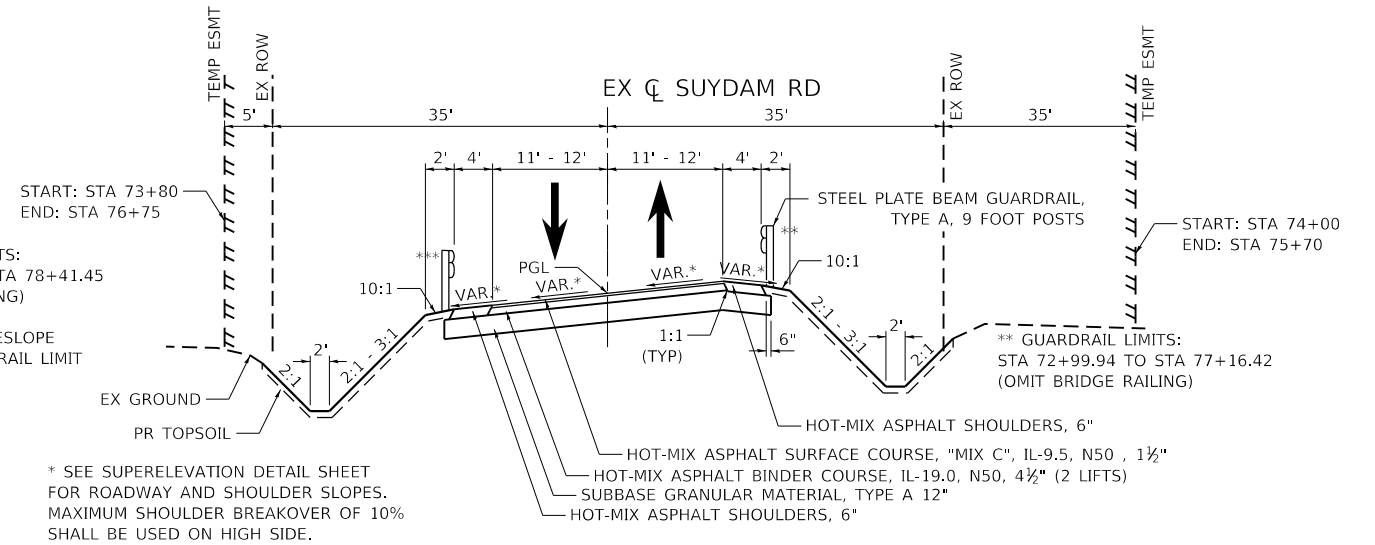
STA 73+00.00 TO STA 79+50.00
(BRIDGE OMISSION - STA 75+15.22 TO STA 75+91.32)

* GUARDRAIL LIMITS:
STA 73+41.33 TO STA 74+66.62 (RT)
STA 74+92.50 TO STA 75+15.22 (RT)
STA 75+91.32 TO STA 77+31.06 (LT)



PROPOSED TYPICAL SECTION

STA 74+55.00 TO STA 76+40.00
(BRIDGE OMISSION - STA 74+99.93 TO STA 76+03.93)



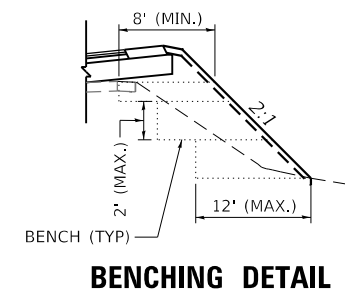
PROPOSED TYPICAL SECTION

STA 73+00.00 TO STA 74+55.00
STA 76+40.00 TO STA 79+50.00

HMA MIXTURE REQUIREMENT TABLE				
LOCATIONS:	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USE(S):	HMA BINDER COURSE (4.5")	HMA SURFACE COURSE	HMA SHOULDER BINDER COURSE (4.5")	HMA SHOULDER SURFACE COURSE
BINDER GRADE (PG):	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL-19.0	IL-9.5	IL-19.0	IL-9.5
FRICTION AGGREGATE:		MIXTURE C		MIXTURE C
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA	QC/QA	QC/QA
SUBLOT SIZE:	N/A	N/A	N/A	N/A
DENSITY TEST METHOD:	LR 1030	LR 1030	LR 1030	LR 1030

BENCHING NOTES:

- CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- EMBANKMENT SHALL BE PLACED IN EQUAL 8 INCH LIFTS AND COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AS EARTH EXCAVATION.
- SLOPES WILL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 3:1 AND THE HEIGHT IS GREATER THAN 5'.



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	DRAWN - TJC	REVISED -
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PLOT DATE = 1/5/2021	DATE - 1/5/2021	REVISED -

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	05-00210-00-BR	DEKALB	36	5
CONTRACT NO.			87662	
ILLINOIS		FED. AID PROJECT		

STATION	LENGTH	EARTH EXCAVATION	STRUCTURAL EXCAVATION	TOPSOIL STRIPPING (UNSUITABLE)	EXCAVATION FOR EMBANKMENT ADJUSTED FOR SHRINKAGE (15%) [1]	EMBANKMENT	EARTHWORK BALANCE WASTE () OR SHORTAGE (-) [1]
	(FT)	A1 (CU YD)	A2 (CU YD)	B1 (CU YD)	C1=(A1)*(1-%) (CU YD)	D1 (CU YD)	E1=C1-D1 (CU YD)
SUYDAM ROAD							
71+80							
72+00	20.0	1.1		0.9	0.9	0.0	0.9
72+84	84.0	6.9		16.6	5.9	13.1	-7.2
73+00	16.0	10.1		5.7	8.6	4.1	4.5
74+00	100.0	102.1		46.6	86.8	38.3	48.5
75+00	100.0	455.4		76.3	387.1	374.2	12.9
BRIDGE OMISSION							
76+04							
77+00	96.0	356.1		49.4	302.7	480.7	-178.0
78+00	100.0	200.2		46.1	170.1	232.8	-62.7
79+00	100.0	81.5		42.3	69.3	49.3	20.0
79+50	50.0	49.8		19.9	42.3	16.2	26.2
80+00	50.0	29.4		19.9	25.0	14.9	10.1
80+70	70.0	4.3		13.6	3.7	9.5	-5.9
STRUCTURAL EXC. SPOIL							
			203.3		172.8	0.0	172.8
SUB-TOTAL							
		1296.9		337.3	1275.2	1233.1	42.1
PROJECT TOTAL							
		1300.0		340.0	1280.0	1235.0	45.0

[1] COLUMN FOR INFORMATION ONLY.

ROADWAY REMOVAL SCHEDULE				
PAY ITEM NUMBER		PAVEMENT REMOVAL	HMA SURFACE REMOVAL - BUTT JOINT	
UNIT		SQ YD	SQ YD	
71+80	TO 72+40		143	
73+00	TO 74+66	396.7		
74+66	TO 74+68	5.5		
74+68	TO 74+82	39		
74+82	TO 74+91	25.3		
74+91	TO 75+15	57.4		
75+91	TO 77+39	353.3		
77+39	TO 78+41	241.9		
78+41	TO 79+50	259.9		
80+10	TO 80+70		145.1	
SUB-TOTAL		1379.0	288.1	
TOTAL		1380	289	

PAVEMENT SCHEDULE					
PAY ITEM NUMBER		SUBBASE GRANULAR MATERIAL	HMA SHOULDER	HMA BINDER COURSE (2 LIFTS)	HMA SURFACE COURSE
UNIT		SQ YD	SQ YD	TON	TON
71+80	TO 73+00		106.7		24.4
72+40	TO 73+00				6.1
73+00	TO 74+05	361.7	93.3	64.7	21.6
74+05	TO 74+55	177.8	44.4	32.2	10.7
74+55	TO 75+00	165.0	40.0	30.2	10.1
76+04	TO 76+40	132.0	32.0	24.2	8.1
76+40	TO 76+90	177.8	44.4	32.2	10.7
76+90	TO 79+50	895.6	231.1	160.2	53.4
79+50	TO 80+10				6.1
79+50	TO 80+70		106.7		32.3
SUB-TOTAL		1909.9	698.7	343.7	183.5
TOTAL		1910	699	344	184

GUARDRAIL SCHEDULE				
PAY ITEM NUMBER		STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TRAFFIC BARRIER TERMINAL, TYPE 6A
UNIT		FOOT	EACH	EACH
73+87	TO 75+00	37.5	1	1
76+04	TO 78+41	162.5	1	1
76+04	TO 77+16	37.5	1	1
73+00	TO 75+00	125	1	1
TOTAL		362.5	4	4

PAVEMENT MARKING SCHEDULE				
PAY ITEM NUMBER		DOUBLE CENTERLINE (YELLOW)	EDGE LINE (WHITE)	
UNIT		FOOT	FOOT	
71+80	TO 80+70	890	1780	

EROSION CONTROL SCHEDULE													
PAY ITEM				25000200	25000314	21101615	25100635	25100630	28000400	28100105	28200200	28000305	Z0013797
				SEEDING, CLASS 2	SEEDING, CLASS 4B	TOPSOIL FURNISH AND PLACE, 4"	HEAVY DUTY EROSION CONTROL BLANKET	EROSION CONTROL BLANKET	PERIMETER EROSION BARRIER	STONE RIPRAP, CLASS A3	FILTER FABRIC	TEMPORARY DITCH CHECKS	STABILIZED CONSTRUCTION ENTRANCE
FROM STA		TO STA		ACRE	ACRE	SQ YD	SQ YD	SQ YD	FOOT	SQ YD	SQ YD	FOOT	SQ YD
STA	OFFSET	STA	OFFSET										
71+80	LT	75+00	LT	0.07		322	107	215				30	
76+03	LT	80+70	LT	0.09		455	188	267				45	
71+80	RT	72+66	RT	0.03		128		129	87			15	
72+80	RT	75+00	RT	0.05		233	133	100	55			45	
76+04	RT	80+70	RT	0.12		561	276	285	410			45	
73+00	LT	75+01	LT		0.06	276	276		207				
76+04	LT	80+00	LT		0.07	323	323		348				
73+16	RT	75+19	RT		0.11	548	548						
76+04	RT	80+06	RT		0.07	347	347						
72+57	RT									20	20		
73+00	RT									20	20		
71+80	RT	72+27	RT										72
80+23	RT	80+70	RT										71
TOTAL				0.5	0.5	3193	2198	996	1107	40	40	180	143

DRAINAGE STRUCTURE AND PIPE SCHEDULE				
PAY ITEM				X1200094
				PIPE CULVERTS, SPECIAL
FROM STA		TO STA		FT
STA	OFFSET	STA	OFFSET	
72+59	RT	72+99	RT	40
TOTAL				40

DRAINAGE REMOVAL SCHEDULE				
PAY ITEM				50105220
				PIPE CULVERT REMOVAL
FROM STA		TO STA		FOOT
STA	OFFSET	STA	OFFSET	
74+64	RT	74+95	RT	32
TOTAL				32

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	DRAWN - TJC	REVISED -
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PLOT DATE = 1/5/2021	DATE - 1/5/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUYDAM ROAD (FAS 172) OVER INDIAN CREEK
SCHEDULE OF QUANTITIES

FAS RTE. 172	SECTION 05-00210-00-BR	COUNTY DEKALB	TOTAL SHEETS 36	SHEET NO. 6
CONTRACT NO.			87662	
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

LT EOS LT ETW RT ETW RT EOS

CL & PGL SUYDAM



PROJECT LIMIT (WITHIN EXISTING CURVE): 79+50.00
 MATCH LOW SIDE RATE: STA 78+45.04
 END FULL SUPER: STA 78+35.10
 END SHOULDER TRANSITION: 76+83.92
 END FULL SHOULDER SUPER: STA 76+03.92
 BEGIN FULL SHOULDER SUPER: STA 74+99.94
 BEGIN FULL SUPER: STA 74+13.80
 BEGIN SHOULDER TRANSITION: 74+19.94
 PROJECT LIMIT (WITHIN EXISTING CURVE): STA 73+00.00

* TRANSITION SHOULDER SLOPE TO EXISTING OVER LIMITS OF BUTT JOINT

**CROSS SECTIONS
 SUPERELEVATION DEVELOPMENT
 FOR CURVE AT STA 74+92.30**

TRANSITION CURVE TABLE

CURVE PI STA.	DESIGN SPEED	CURVE RADIUS	SUPERELEVATION "e"	W	SUPERELEVATION RUNOFF LENGTH	TANGENT RUNOUT DISTANCE	SUPERELEVATION TRANSITION LENGTH
74+92.30	50 MPH	1,910'	5.25%	11'	116'	N/A	116'

SUPERELEVATION TRANSITION ON TWO-LANE HIGHWAY

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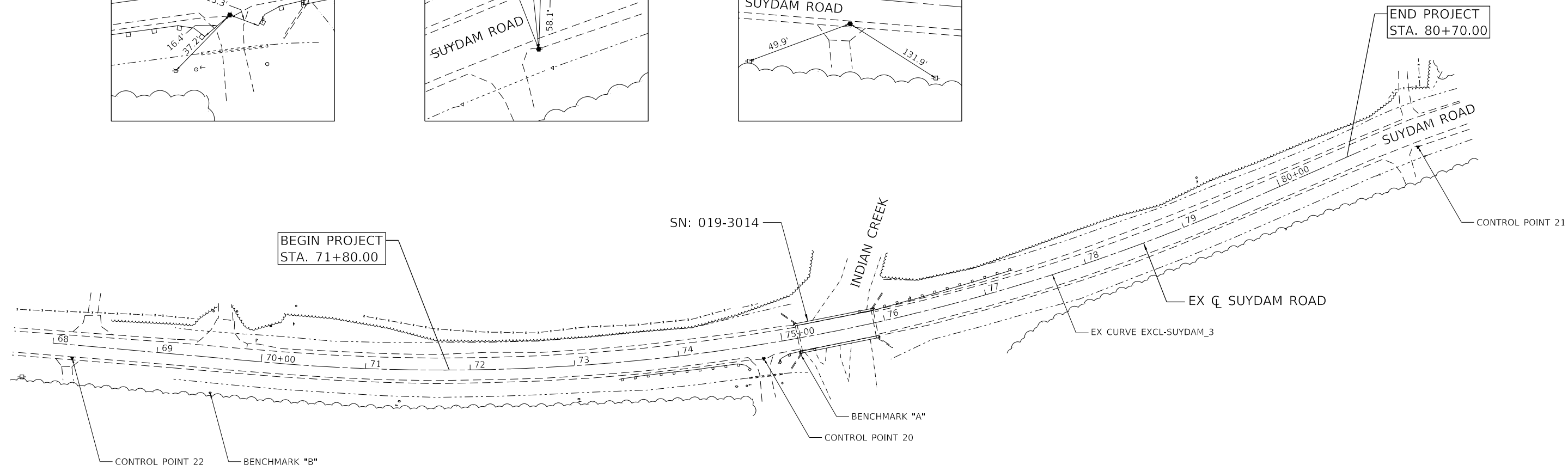
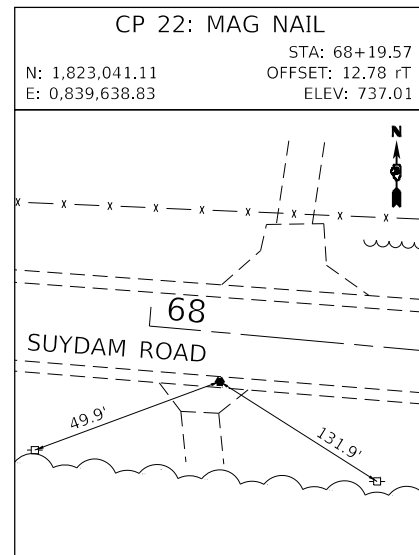
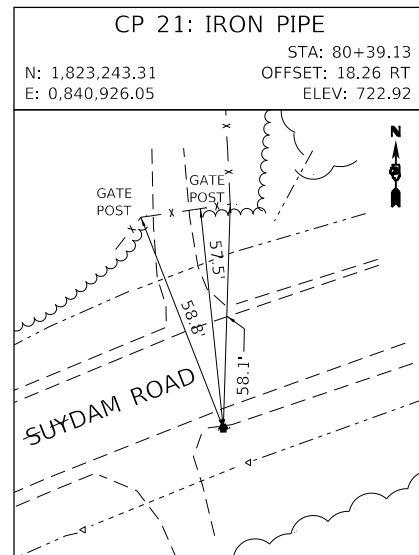
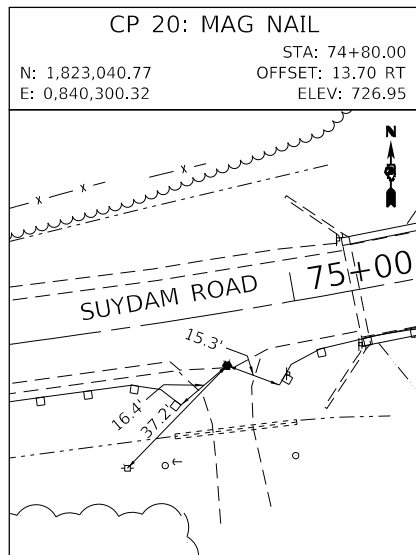
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PLOT DATE = 1/5/2021	DATE - 1/5/2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUYDAM ROAD (FAS 172) OVER INDIAN CREEK
 SUPERELEVATION TRANSITION DETAIL**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	05-00210-00-BR	DEKALB	36	7
CONTRACT NO.			87662	
ILLINOIS		FED. AID PROJECT		



EXIST. CURVE EXCL-SUYDAM_3
 PI STA. = 74+92.30
 $\Delta = 28^\circ 47' 52''$ (LT)
 $D = 2^\circ 59' 59''$
 $R = 1,910.00'$
 $T = 490.37'$
 $L = 960.00'$
 $E = 61.94'$
 $e = 5.25\%$
 $T.R. = N/A$
 $S.E. RUN = 116.00'$
 $P.C. STA. = 70+01.93$
 $P.T. STA. = 79+61.93$

PROJECT BENCHMARKS

SUYDAM ROAD				
PT #	STATION	OFFSET	ELEV	DESCRIPTION
BM A	75+15.40	16.2' RT	727.24	"SQUARE" CUT IN THE SOUTHWEST WING WALL OF SN: 019-3014, SUYDAM ROAD OVER INDIAN CREEK.
BM B	69+53.89	34.0 RT	736.87	MAG NAIL SET IN THE NORTH FACE OF THE 4TH MOST WESTERN POWER POLE FROM SN: 019-3014 ALONG THE SOUTH SIDE OF SUYDAM ROAD.

PROJECT COORDINATES

SUYDAM ROAD - EXISTING ALIGNMENT			
DESCRIPTION	STATION	NORTHING	EASTING
P.O.T.	68+00.00	1,823,055.59	0,839,620.49
P.C.	70+01.93	1,823,037.47	0,839,821.61
P.I.	74+92.30	1,822,993.47	0,840,310.00
P.T.	79+61.93	1,823,190.18	0,840,759.18
P.O.T.	81+00.00	1,823,245.56	0,840,885.66



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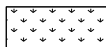
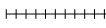
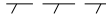
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

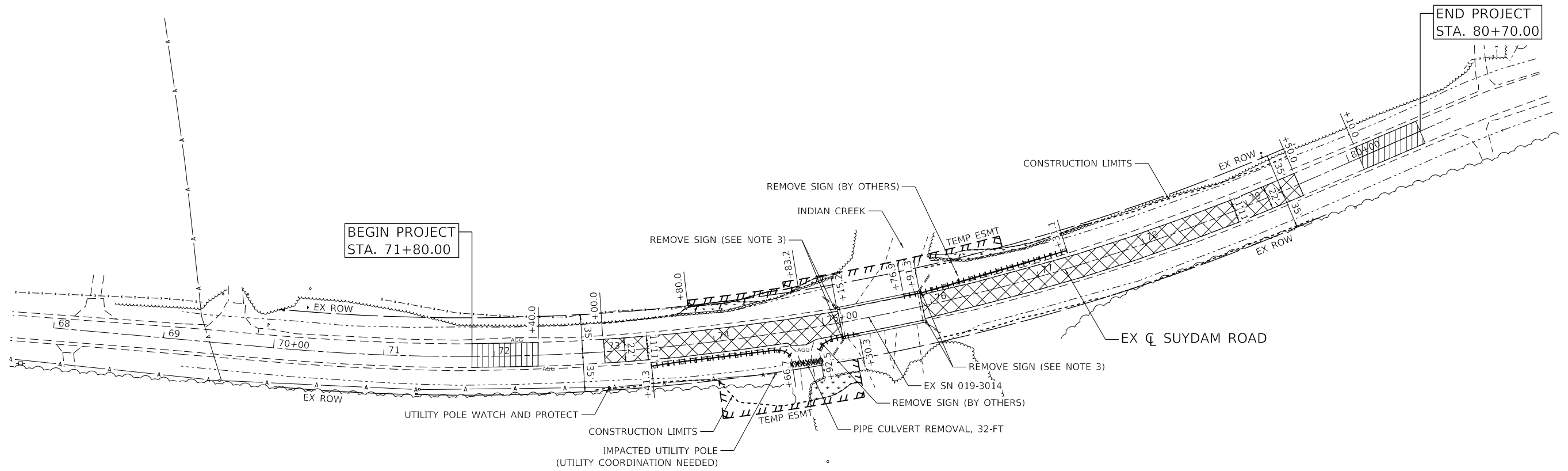
**SUYDAM ROAD (FAS 172) OVER INDIAN CREEK
 ALIGNMENT, TIES, AND BENCHMARKS**

SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. TO STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	05-00210-00-BR	DEKALB	36	8
CONTRACT NO.			87662	
ILLINOIS FED. AID PROJECT				

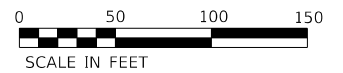
REMOVAL LEGEND

-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL - BUTT JOINT (SEE BUTT JOINT DETAIL SHEET)
-  TREE REMOVAL, ACRES (BY OTHERS)
-  GUARDRAIL REMOVAL
-  FENCE REMOVAL (SEE NOTE 2)



NOTE:

1. SEE STRUCTURAL PLANS FOR ADDITIONAL REMOVALS.
2. FENCE REMOVAL SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
3. REMOVAL OF THE OBJECT MARKER SIGNS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF REMOVAL OF EXISTING STRUCTURES.



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUYDAM ROAD (FAS 172) OVER INDIAN CREEK
EXISTING CONDITIONS AND REMOVAL PLAN**

SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. 71+80.00 TO STA. 80+70.00

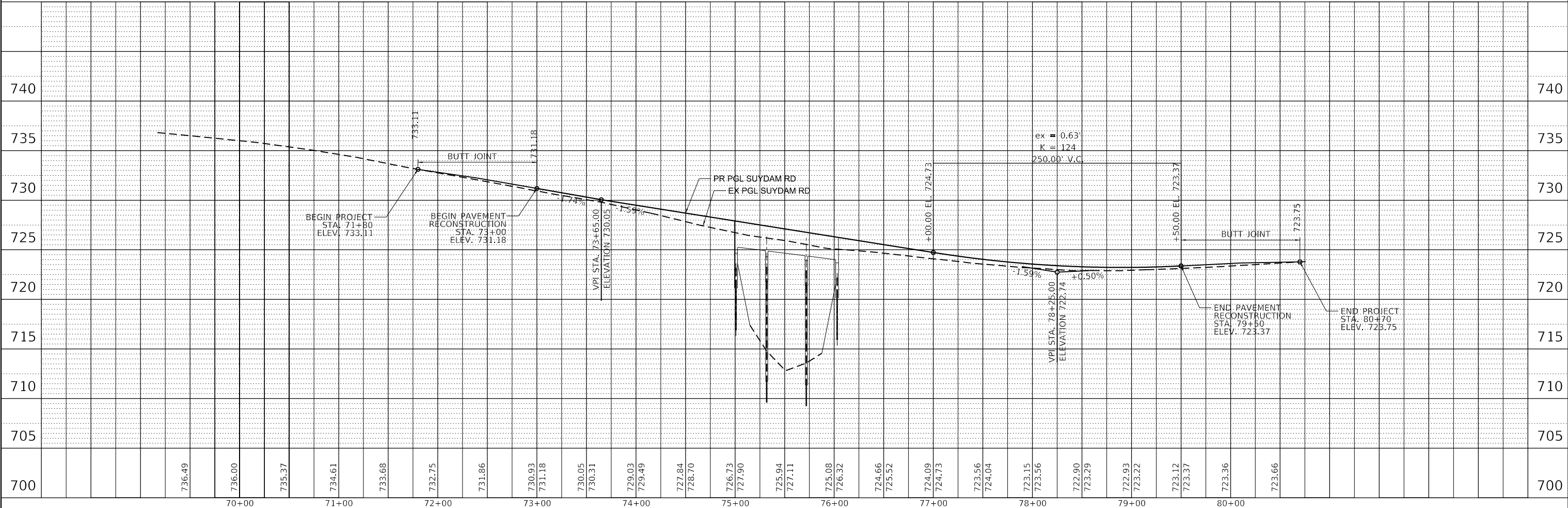
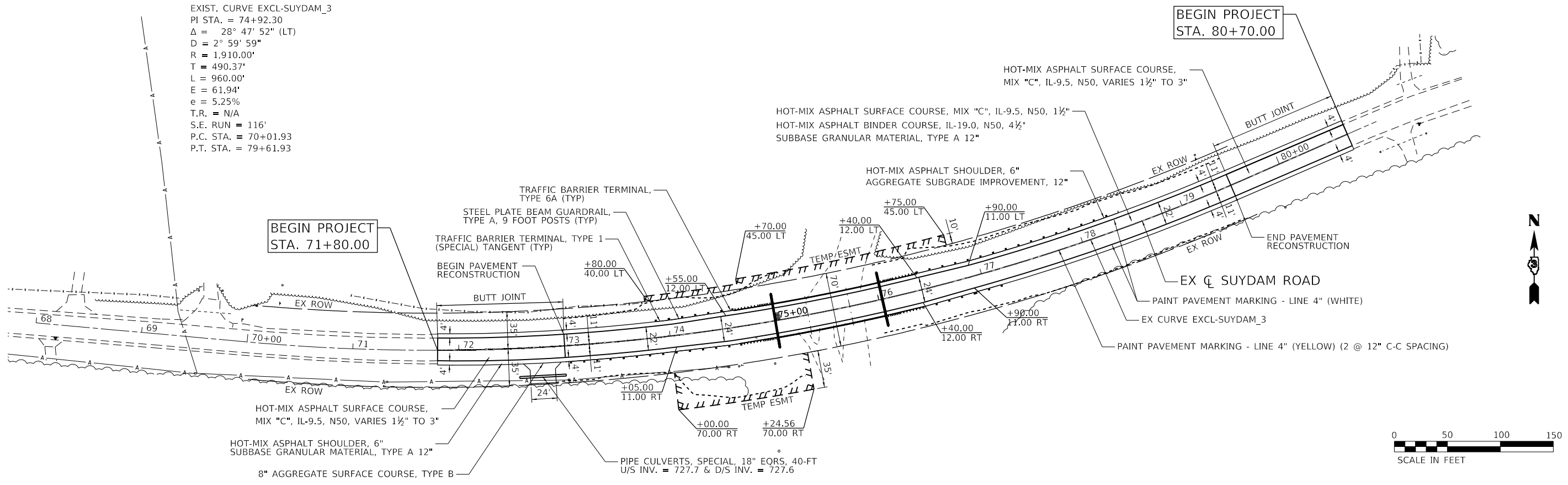
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172	05-00210-00-BR	DEKALB	36	9
CONTRACT NO.			87662	
ILLINOIS		FED. AID PROJECT		

DATE	
BY	
PLAN	
NO.	
DATE	
BY	
PROFILE	
NO.	

DATE	
BY	
PROFILE	
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DATE	
BY	
PLAN	
NO.	

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EXIST. CURVE EXCL-SUYDAM_3
 PI STA. = 74+92.30
 $\Delta = 28^\circ 47' 52''$ (LT)
 $D = 2^\circ 59' 59''$
 $R = 1,910.00'$
 $T = 490.37'$
 $L = 960.00'$
 $E = 61.94'$
 $e = 5.25\%$
 $T.R. = N/A$
 $S.E. RUN = 116'$
 $P.C. STA. = 70+01.93$
 $P.T. STA. = 79+61.93$



USER NAME = Roadway	DESIGNED - TBH	REVISED -
	DRAWN - TJC	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - DD	REVISED -
PLOT DATE = 1/5/2021	DATE - 1/5/2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUYDAM ROAD (FAS 172) OVER INDIAN CREEK
 PROPOSED PLAN AND PROFILE
 SCALE: 1" = 50'
 SHEET 1 OF 1 SHEETS
 STA. 71+80.00 TO STA. 80+70.00

FAS RTE. 172	SECTION 05-00210-00-BR	COUNTY DEKALB	TOTAL SHEETS 36	SHEET NO. 10
CONTRACT NO. 87662			ILLINOIS FED. AID PROJECT	

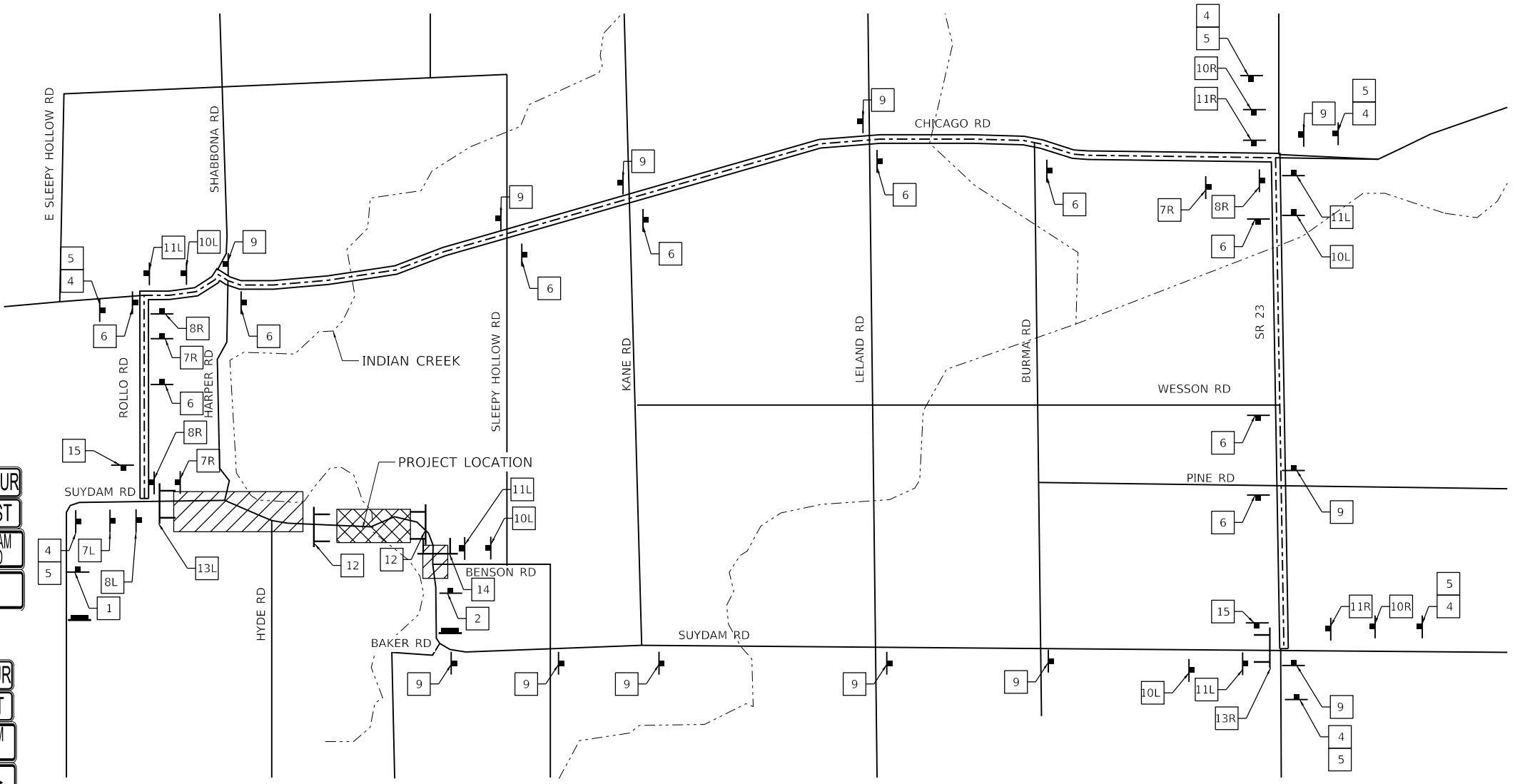
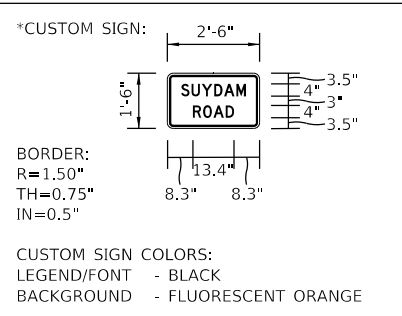
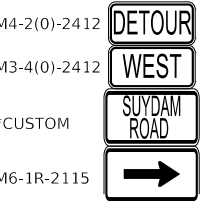
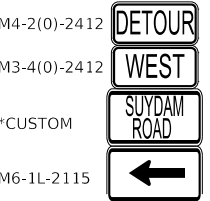
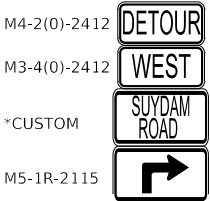
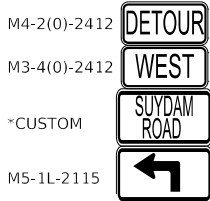
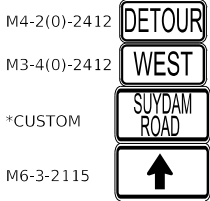
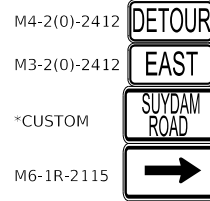
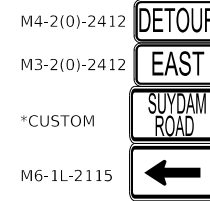
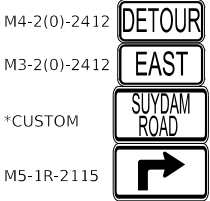
**EASTBOUND
Suydam Road
BRIDGE CLOSED
FOLLOW DETOUR**

**WESTBOUND
Suydam Road
BRIDGE CLOSED
FOLLOW DETOUR**

60"x48"
6" BLACK LETTERS ON
ORANGE REFLECTIVE
BACKGROUND

60"x48"
6" BLACK LETTERS ON
ORANGE REFLECTIVE
BACKGROUND

BEGINS MM/DD/YYYY



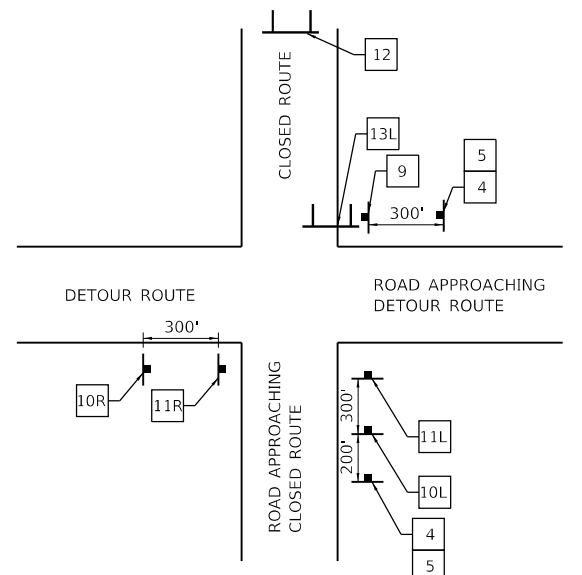
NOTES:

- TOTAL LENGTH OF THE DETOUR IS 11.4 MILES.
- SIGN 1 WITH SIGN 3 COVERING SHALL BE PLACED ONE (1) WEEK PRIOR TO CLOSURE. REMOVE SIGN 3 ONCE DETOUR BEGINS.
- THE CONTRACTOR SHALL CALL J.U.L.I.E. BEFORE INSTALLING SIGNS.
- ROAD CLOSURE SIGNAGE SHALL NOT BE INSTALLED ON ANY STREET LIGHT POLES OR SIGNAL POLES.
- ROAD CLOSURE SIGNAGE SHALL NOT BLOCK ANY EXISTING SIGNS AND CANNOT USE THE EXISTING SIGN POSTS.
- TYPE III BARRICADE PLACEMENT SHALL FOLLOW HIGHWAY STANDARD 701901.
- ALL CONSTRUCTION SIGN FONTS AND SYMBOLS SHALL BE BLACK ON FLUORESCENT ORANGE SHEETING.
- PLAN NOT TO SCALE.

LEGEND:



TYPICAL DETOUR AND ROAD CLOSURE SIGN SPACING



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	DRAWN - TJC	REVISED -
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PLOT DATE = 1/5/2021	DATE - 1/5/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUYDAM ROAD (FAS 172) OVER INDIAN CREEK
DETOUR PLAN**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

FAS RTE. 172	SECTION 05-00210-00-BR	COUNTY DEKALB	TOTAL SHEETS 36	SHEET NO. 11
CONTRACT NO. 87662			ILLINOIS FED. AID PROJECT	



BEGIN PROJECT
STA 71+80.00

STABILIZED CONSTRUCTION ENTRANCE
(USE EX PAVEMENT)

EX ∇ SUYDAM ROAD

TEMP ESMT

EX ROW

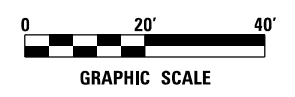
SUYDAM ROAD 74

75+00

MATCHLINE STA 80+77.41

INDIAN CREEK

SEE STRUCTURE SHEET 13
FOR RIPRAP DETAILS



LEGEND

- SEEDING, CLASS 2 W/ EROSION CONTROL BLANKET (SEE NOTE)
- SEEDING, CLASS 4B W/ HEAVY DUTY EROSION CONTROL BLANKET (SEE NOTE)
- SEEDING, CLASS 2 W/ HEAVY DUTY EROSION CONTROL BLANKET (SEE NOTE)
- STONE RIPRAP, CLASS A3 WITH FILTER FABRIC
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK

NOTE
SEEDING AREA SHALL INCLUDE TEMPORARY EROSION CONTROL SEEDING, TOPSOIL FURNISH AND PLACE, 4", AND NITROGEN, PHOSPHORUS, POTASSIUM FERTILIZER NUTRIENT.

END PROJECT
STA. 80+70.00

EX ∇ SUYDAM RD

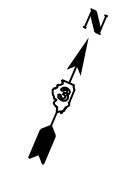
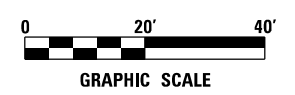
STABILIZED CONSTRUCTION ENTRANCE
(USE EX PAVEMENT)

EX ROW

SUYDAM ROAD 80+00

MATCHLINE STA 77+00

EX ROW



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	DRAWN - TJC	REVISED -
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PLOT DATE = 1/5/2021	DATE - 1/5/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUYDAM ROAD (FAS 172) OVER INDIAN CREEK
EROSION CONTROL PLAN**

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. TO STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	05-00210-00-BR	DEKALB	36	12
CONTRACT NO.			87662	
ILLINOIS FED. AID PROJECT				

Bench Mark: "□" cut in the Southwest Wing Wall of SN: 019-3014, Suydam Road over Indian Creek.

Existing Structure: S.N. 019-3014 Built in 1956 as F.A.S. RT. 172 - SEC. 43B. Structure consists of a three-span cast-in place reinforced concrete bridge with reinforced concrete piers and abutments on timber piles with metal shoes.

Structure to be removed and replaced with a three span, reinforced concrete slab bridge. Suydam Road is to be closed with detour during construction. No salvage.

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f'_c = 4,000$ psi (Superstructure concrete)
 $f_y = 60,000$ psi (Reinforcement)

SEISMIC DATA

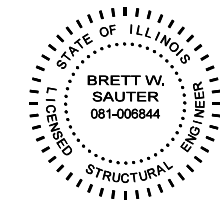
Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.095g
 Design Spectral Acceleration at 0.2 sec. (S_{D3}) = 0.144g
 Soil Site Class = D

LOADING HL-93

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

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition



DATE: 1/5/2021
 SEAL EXPIRES: 11/30/2022

Brett W. Sauter

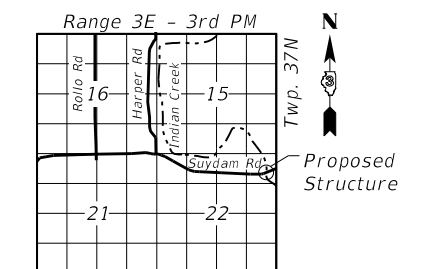
I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current "AASHTO LRFD Bridge Design Specifications"

LEGEND

▬▬▬▬ Prop. Temporary Easement
 ◆ Boring Logs

NOTE:

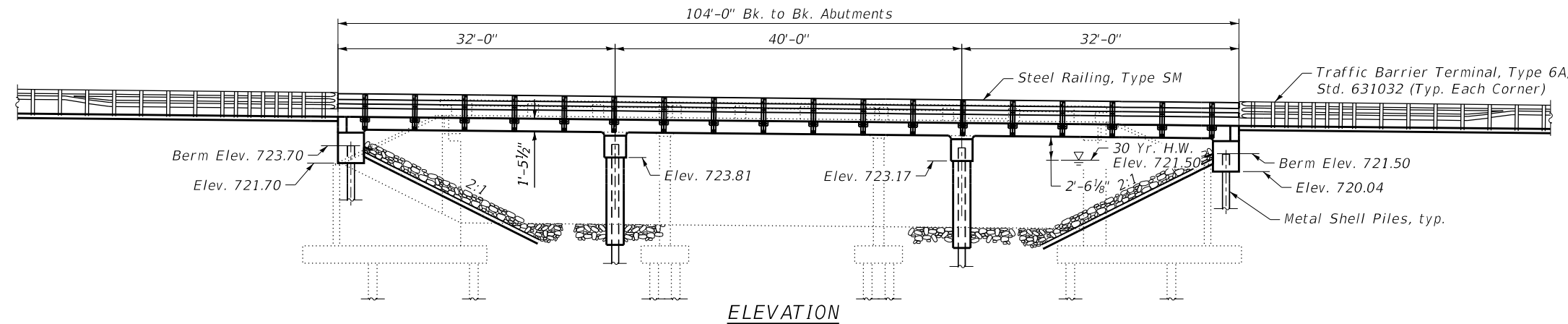
1. For section A-A & Section B-B, see sheet S-02.



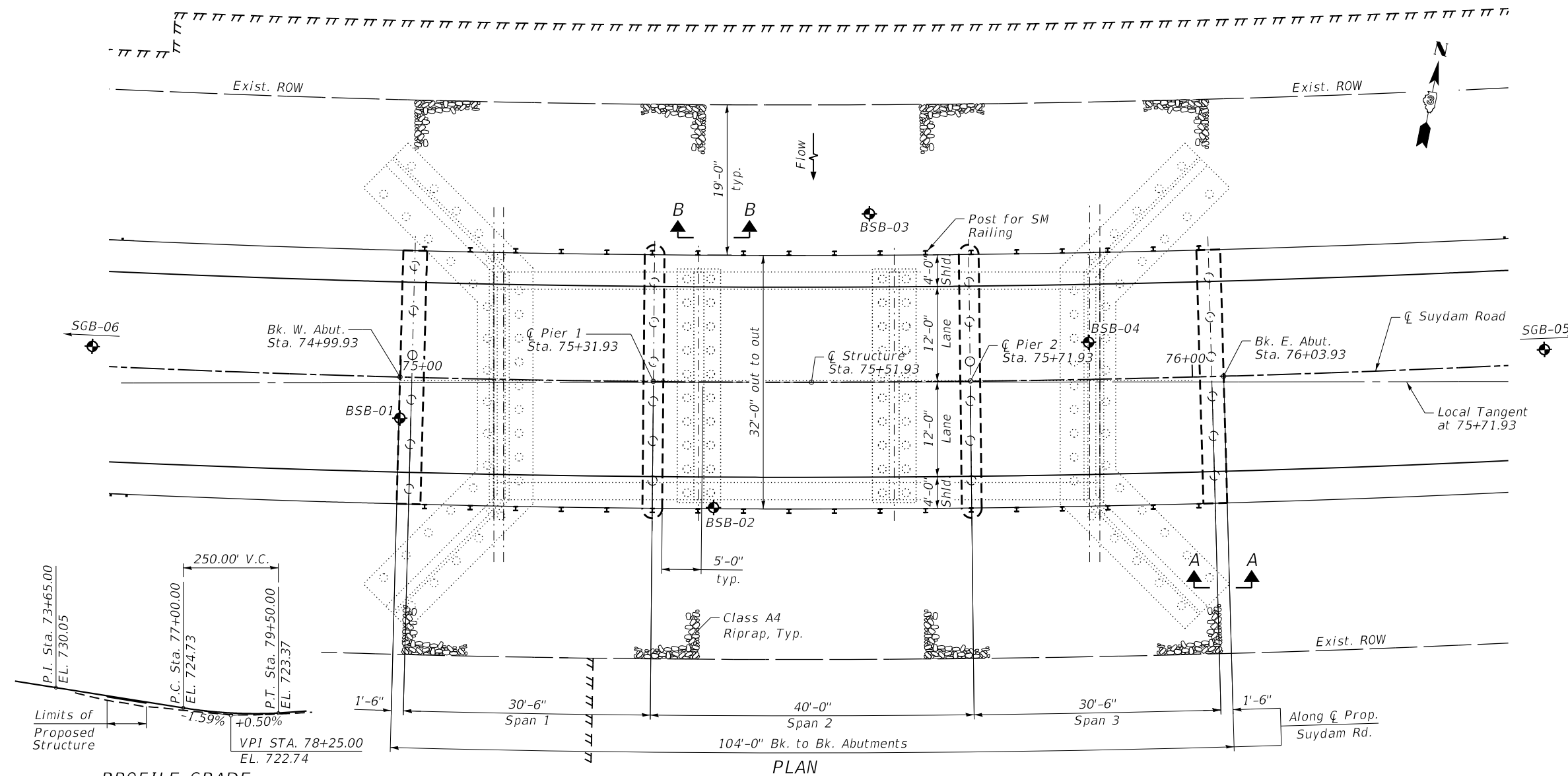
LOCATION SKETCH

GENERAL PLAN

SUYDAM ROAD OVER INDIAN CREEK
 F.A.S. RTE. 172 - SEC. 05-00210-00-BR
 DEKALB COUNTY
 STATION 75+51.93
 STRUCTURE NO. 019-3077



ELEVATION



PLAN

PROFILE GRADE

(along Suydam Road)



USER NAME = Structural	DESIGNED - KEC	REVISED -
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PLOT DATE = 1/5/2021	CHECKED - BWS	REVISED -
	DATE - 1/5/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET S-01 OF S-17 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	05-00210-00-BR	DEKALB	36	13
CONTRACT NO. 87662				

ILLINOIS FED. AID PROJECT

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GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the ENGINEER.
3. The CONTRACTOR shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.
4. Forms shall remain in place for 14 days on the CIP slab deck after the pour.

INDEX OF SHEETS

- S-1 General Plan & Elevation
- S-2 General Notes, Bill of Material & Index of Sheets
- S-3 Removal Plan
- S-4 Top of Deck Elevations 1
- S-5 Top of Deck Elevations 2
- S-6 Deck Plan and Cross Section
- S-7 Superstructure Details
- S-8 Bridge Railing
- S-9 West and East Abutment
- S-10 Abutment Details
- S-11 Pier 1 and 2
- S-12 Pier Details
- S-13 Metal Shell Pile Details
- S-14 Soil Boring Logs 1
- S-15 Soil Boring Logs 2
- S-16 Soil Boring Logs 3
- S-17 Soil Boring Logs 4

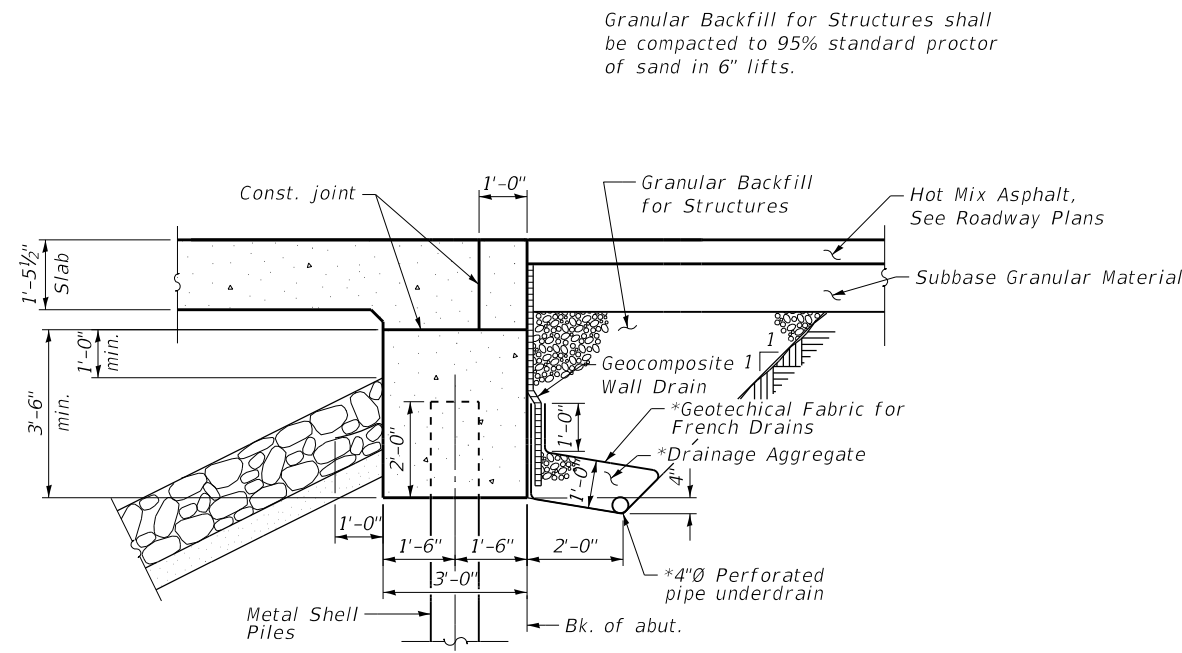
DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)				Item 113
	W. Abut.	Pier 1	Pier 2	E. Abut.	
Q100	N/A	708.1	708.1	N/A	8
Q200	N/A	707.5	707.5	N/A	
Design	N/A	708.5	708.5	N/A	
Check	N/A	706.6	706.6	N/A	

WATERWAY INFORMATION

Drainage Area = 36.2 sq. mi.		Low Grade Elev. 723.22 @ Sta. 78+90							
Flood Area	Freq. Yr.	Q C.F.S.	Opening Ft ²		Natural H.W.E.	Head - Ft		Headwater Elev.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Ten-Year	10	1,520	476	532	720.7	0.0	0.0	720.7	720.7
Design	30	2,051	510	556	721.1	0.4	0.4	721.5	721.5
Base	100	2,630	529	597	721.4	0.7	0.6	722.1	722.0
Scour Check	200	2,975	541	608	721.6	0.8	0.7	722.4	722.4
Max. Calc.	500	3,430	550	628	721.8	1.0	0.9	722.9	722.8

Two-Year, Q = 728 C.F.S.

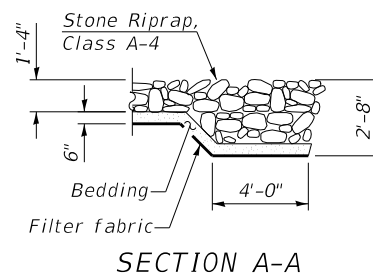


SECTION THRU ABUTMENT
(Horiz. dim. @ Rt. Z's)

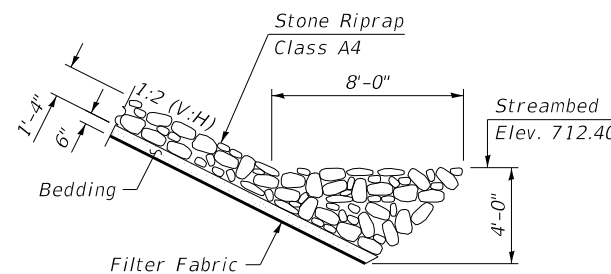
*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

INDIAN CREEK
BUILT 2021 BY
DEKALB COUNTY
SECTION 05-00210-00-BR
STA. 75+51.93
LOADING HL93
STR. NO. 019-3077

NAME PLATE
See Std. 515001



SECTION A-A



SECTION B-B

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq Yd		538	538
Filter Fabric	Sq Yd		538	538
Removal Of Existing Structures	Each	0.5	0.5	1
Structure Excavation	Cu Yd		216	216
Concrete Structures	Cu Yd		120.4	120.4
Concrete Superstructure	Cu Yd	184.8		184.8
Bridge Deck Grooving	Sq Yd	340		340
Protective Coat	Sq Yd	404		404
Reinforcement Bars, Epoxy Coated	Pound	52,910	14,160	67,070
Steel Railing, Type SM	Foot	208		208
Furnishing Metal Shell Piles 14" X 0.312"	Foot		1,162	1,162
Driving Piles	Foot		1,162	1,162
Test Pile Metal Shells	Each		4	4
Name Plates	Each		1	1
Granular Backfill For Structures	Cu Yd		96	96
Geocomposite Wall Drain	Sq Yd		68	68
Pipe Underdrains For Structures 4"	Foot		144	144

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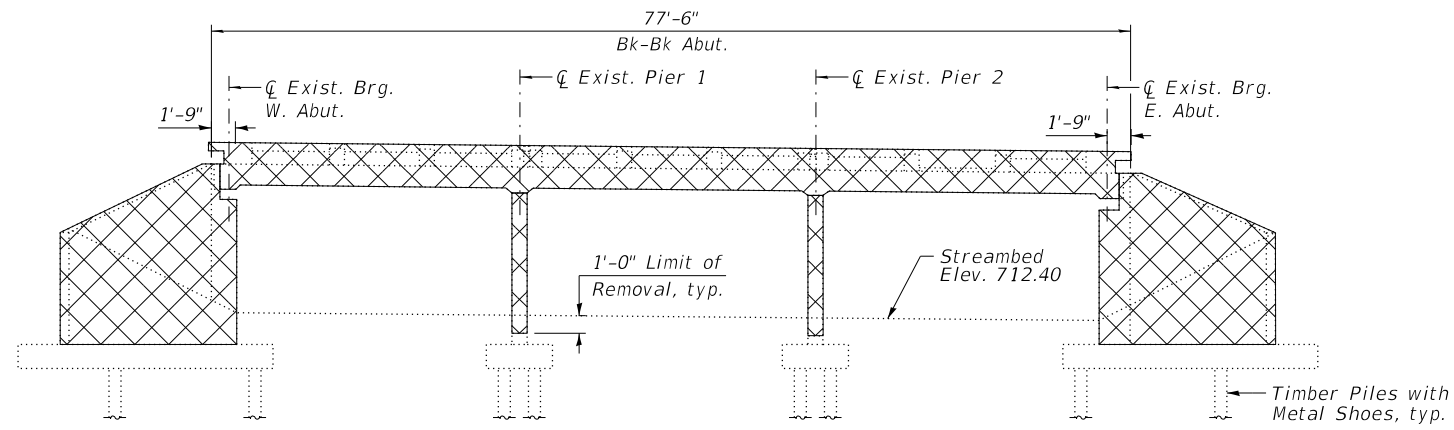


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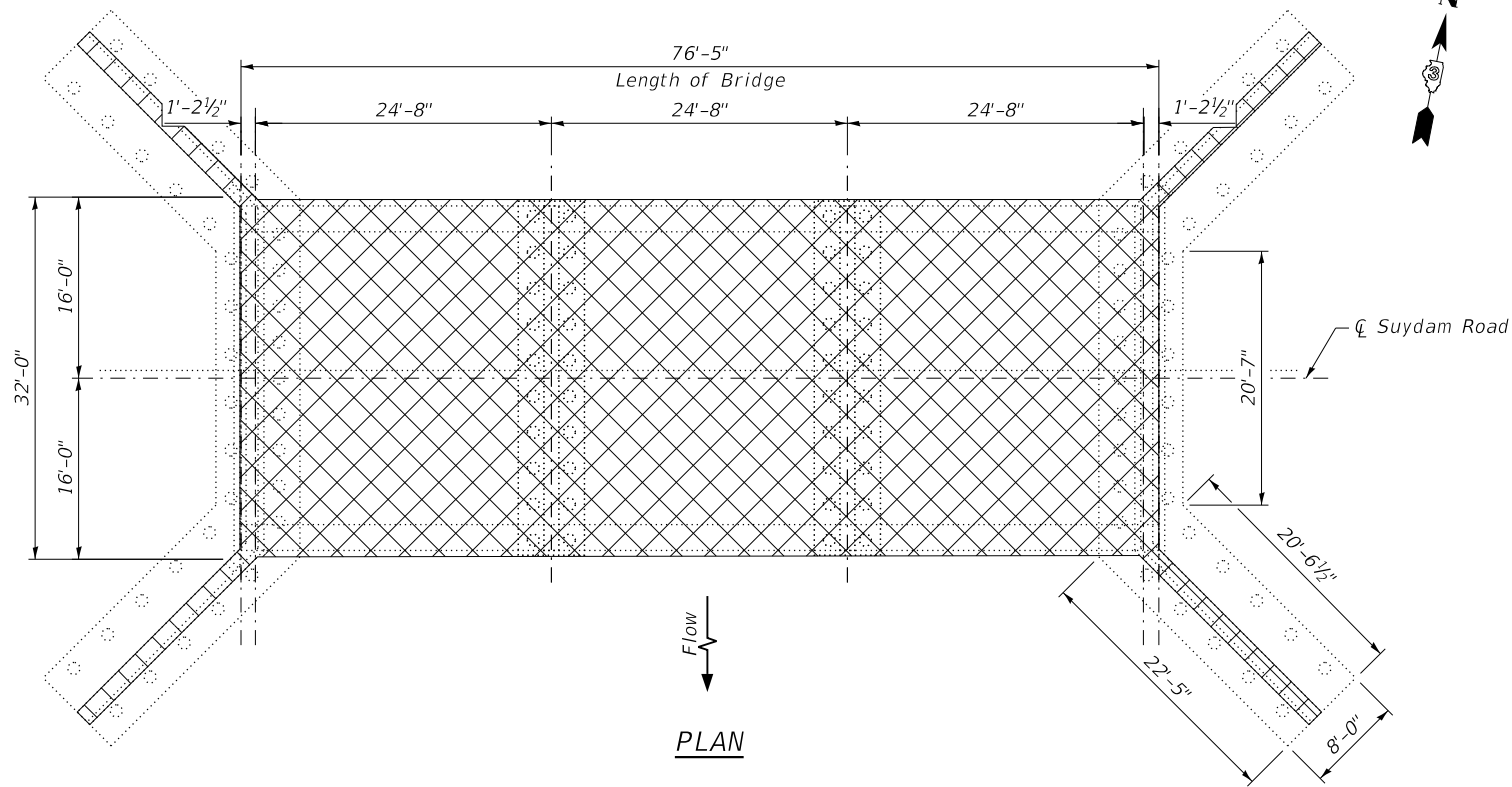
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, BILL OF MATERIAL & INDEX OF SHEETS
STRUCTURE NO. 019-3077

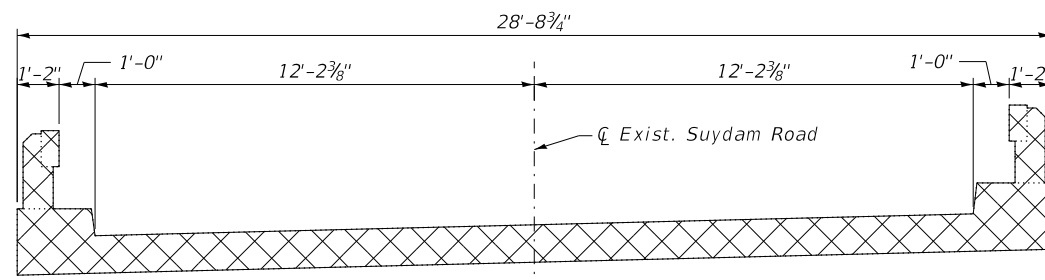
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CONTRACT NO. 87662			ILLINOIS FED. AID PROJECT	



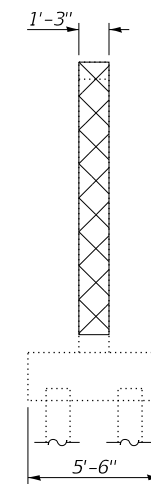
ELEVATION



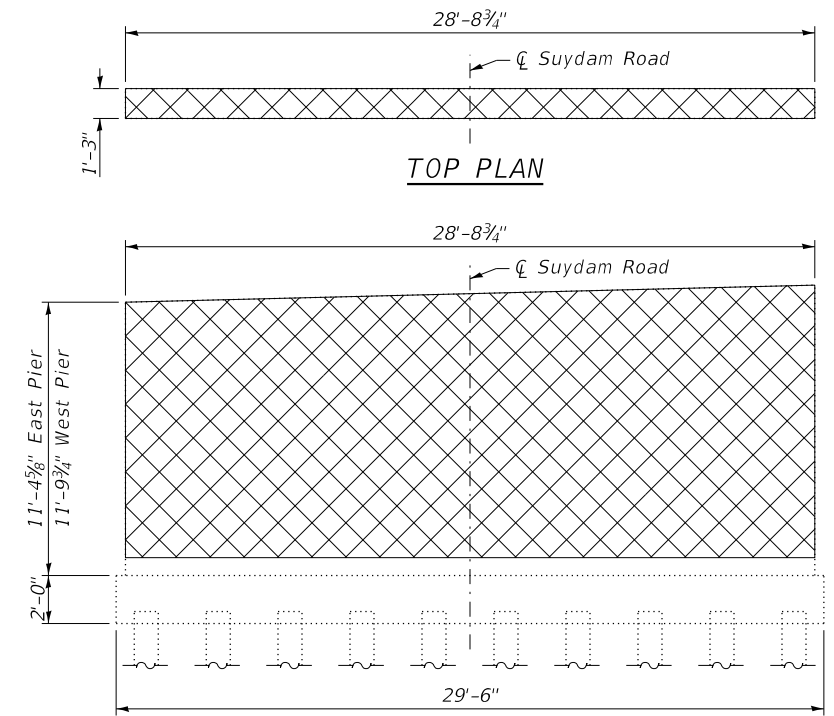
PLAN



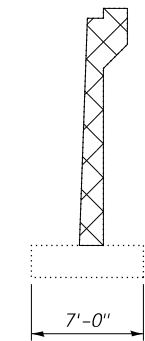
**TYPICAL BRIDGE CROSS SECTION
(Looking East)**



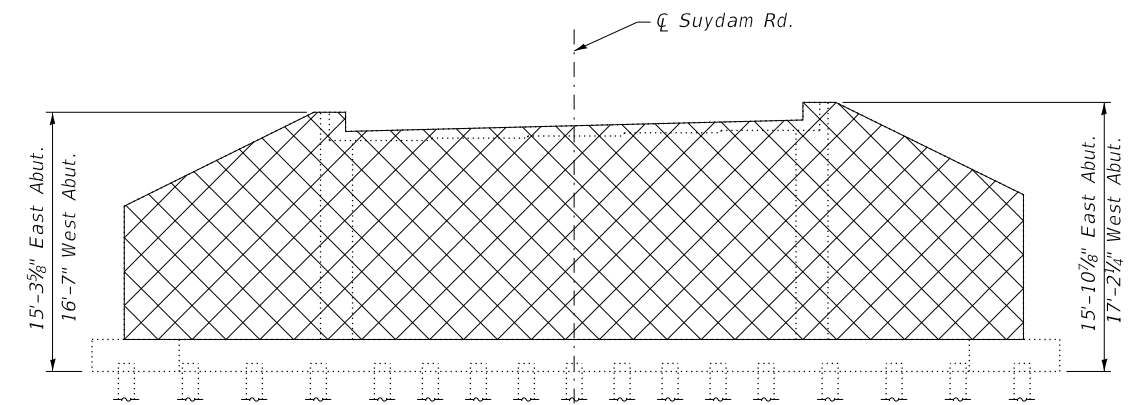
END VIEW



**PIER REMOVAL-ELEVATION
(Looking East)**



END VIEW



**ABUTMENT REMOVAL - ELEVATION
(Looking East)**

BILL OF MATERIAL

ITEM	ITEM	ITEM
Removal of Existing Structures	Each	1

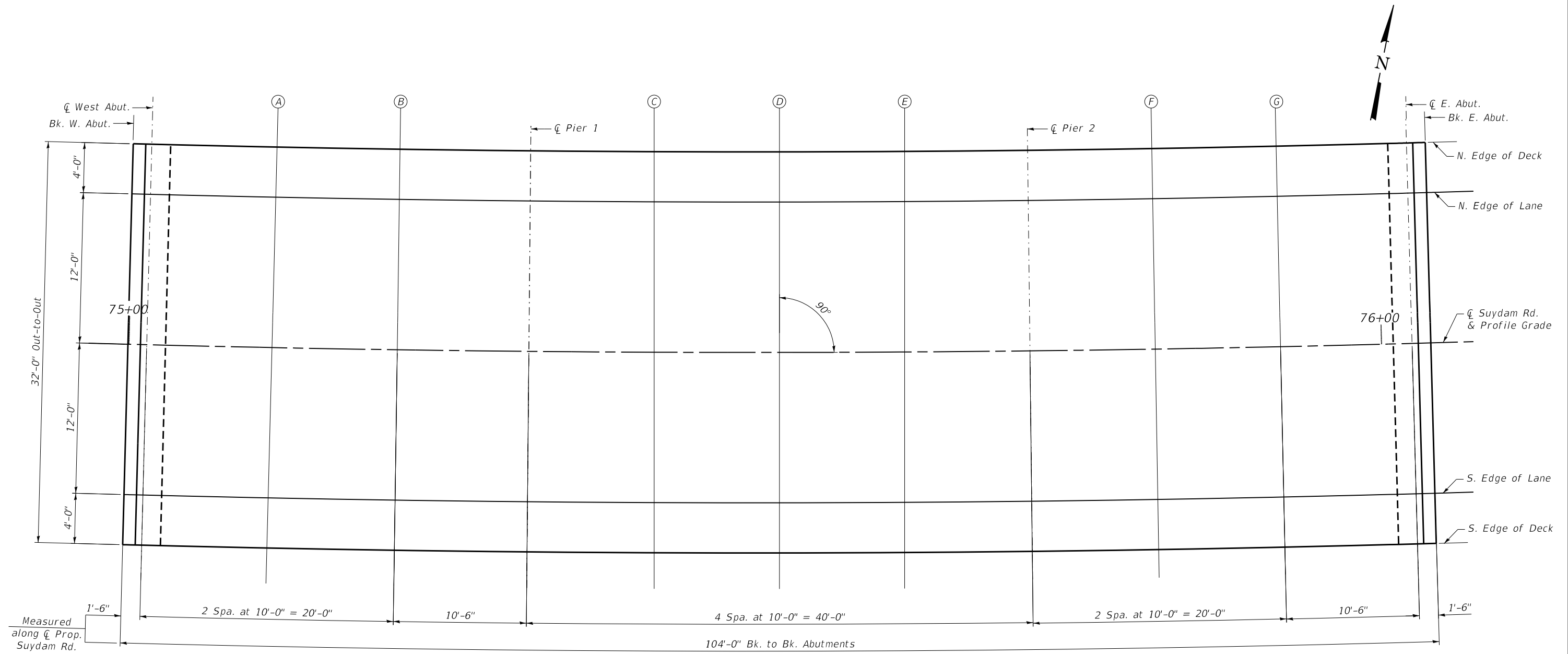
LEGEND

Existing Structure Removal

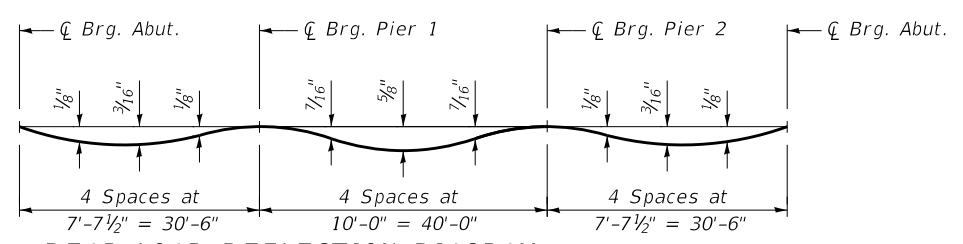
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FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	05-00210-00-BR	DEKALB	36	15
CONTRACT NO. 87662			ILLINOIS FED. AID PROJECT	



PLAN



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS 1
STRUCTURE NO. 019-3077

SHEET 5-04 OF 5-17 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	05-00210-00-BR	DEKALB	36	16
CONTRACT NO. 87662				
ILLINOIS FED. AID PROJECT				

N. EDGE OF DECK

Point	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	74+99.93	-16.00	727.07	727.07
☉ W. ABUT.	75+01.43	-16.00	727.05	727.05
A	75+11.43	-16.00	726.89	726.90
B	75+21.43	-16.00	726.73	726.75
☉ PIER 1	75+31.93	-16.00	726.56	726.56
D	75+41.93	-16.00	726.40	726.44
E	75+51.93	-16.00	726.24	726.30
F	75+61.93	-16.00	726.09	726.12
☉ PIER 2	75+71.93	-16.00	725.93	725.93
H	75+81.93	-16.00	725.77	725.78
I	75+91.93	-16.00	725.61	725.62
☉ E. ABUT.	76+02.43	-16.00	725.44	725.44
BK. E. ABUT.	76+03.93	-16.00	725.42	725.42

N. EDGE OF LANE

Point	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	74+99.93	-12.00	727.28	727.28
☉ W. ABUT.	75+01.43	-12.00	727.26	727.26
A	75+11.43	-12.00	727.10	727.11
B	75+21.43	-12.00	726.94	726.96
☉ PIER 1	75+31.93	-12.00	726.77	726.77
D	75+41.93	-12.00	726.61	726.65
E	75+51.93	-12.00	726.45	726.51
F	75+61.93	-12.00	726.30	726.33
☉ PIER 2	75+71.93	-12.00	726.14	726.14
H	75+81.93	-12.00	725.98	725.99
I	75+91.93	-12.00	725.82	725.83
☉ E. ABUT.	76+02.43	-12.00	725.65	725.65
BK. E. ABUT.	76+03.93	-12.00	725.63	725.63

☉ SUYDAM ROAD & PROFILE GRADE

Point	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	74+99.93	0.00	727.91	727.91
☉ W. ABUT.	75+01.43	0.00	727.89	727.89
A	75+11.43	0.00	727.73	727.74
B	75+21.43	0.00	727.57	727.59
☉ PIER 1	75+31.93	0.00	727.40	727.40
D	75+41.93	0.00	727.24	727.28
E	75+51.93	0.00	727.08	727.14
F	75+61.93	0.00	726.93	726.96
☉ PIER 2	75+71.93	0.00	726.77	726.77
H	75+81.93	0.00	726.61	726.62
I	75+91.93	0.00	726.45	726.46
☉ E. ABUT.	76+02.43	0.00	726.28	726.28
BK. E. ABUT.	76+03.93	0.00	726.26	726.26

S. EDGE OF DECK

Point	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	74+99.93	12.00	728.54	728.54
☉ W. ABUT.	75+01.43	12.00	728.52	728.52
A	75+11.43	12.00	728.36	728.37
B	75+21.43	12.00	728.20	728.22
☉ PIER 1	75+31.93	12.00	728.03	728.03
D	75+41.93	12.00	727.87	727.91
E	75+51.93	12.00	727.71	727.77
F	75+61.93	12.00	727.56	727.59
☉ PIER 2	75+71.93	12.00	727.40	727.40
H	75+81.93	12.00	727.24	727.25
I	75+91.93	12.00	727.08	727.09
☉ E. ABUT.	76+02.43	12.00	726.91	726.91
BK. E. ABUT.	76+03.93	12.00	726.89	726.89

S. EDGE OF LANE

Point	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	74+99.93	16.00	728.75	728.75
☉ W. ABUT.	75+01.43	16.00	728.73	728.73
A	75+11.43	16.00	728.57	728.58
B	75+21.43	16.00	728.41	728.43
☉ PIER 1	75+31.93	16.00	728.24	728.24
D	75+41.93	16.00	728.08	728.12
E	75+51.93	16.00	727.92	727.98
F	75+61.93	16.00	727.77	727.80
☉ PIER 2	75+71.93	16.00	727.61	727.61
H	75+81.93	16.00	727.45	727.46
I	75+91.93	16.00	727.29	727.30
☉ E. ABUT.	76+02.43	16.00	727.12	727.12
BK. E. ABUT.	76+03.93	16.00	727.10	727.10

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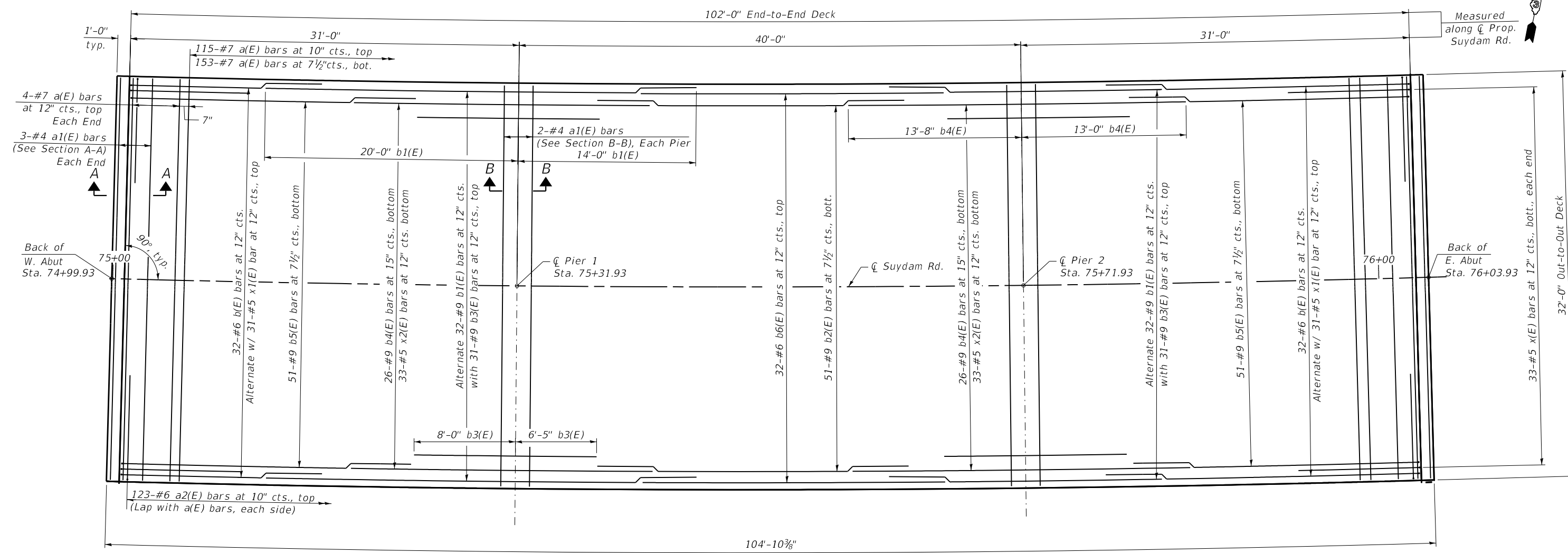


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

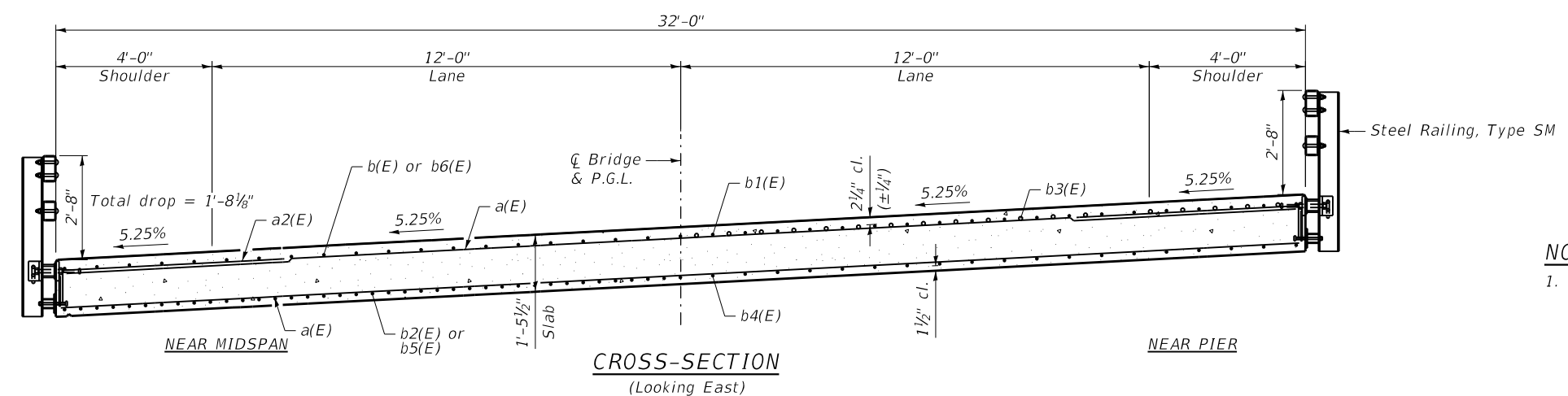
TOP OF DECK ELEVATIONS 2
STRUCTURE NO. 019-3077

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	05-00210-00-BR	DEKALB	36	17
CONTRACT NO.			87662	
SHEET 5-05 OF 5-17 SHEETS				
ILLINOIS FED. AID PROJECT				



PLAN

MINIMUM BAR LAP
 #6 bar = 3'-1"
 #9 bar = 5'-7"
 #9 (top bar) = 4'-8"



CROSS-SECTION
(Looking East)

NOTE:
 1. See sheet S-07 for Section A-A, Section B-B, superstructure details, and Bill of Material.

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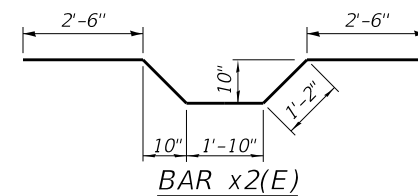
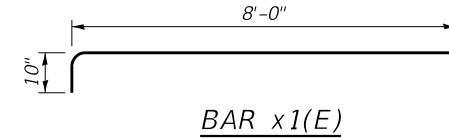
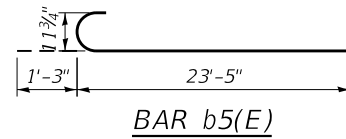
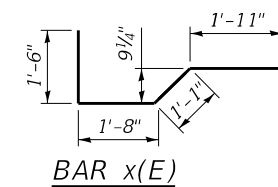
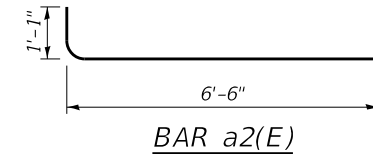
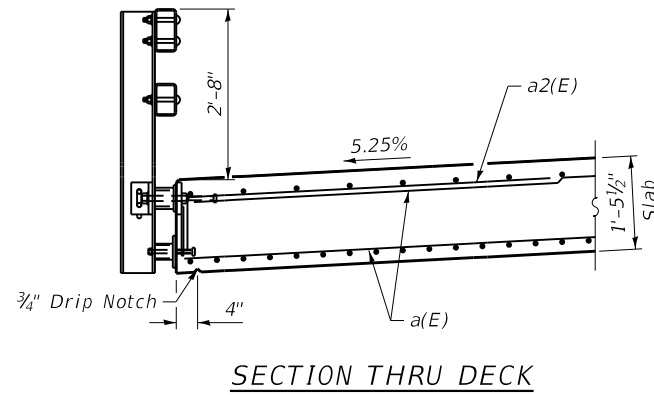
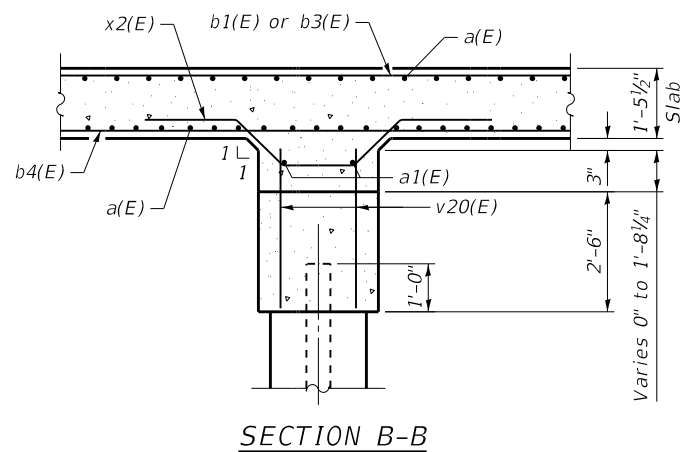
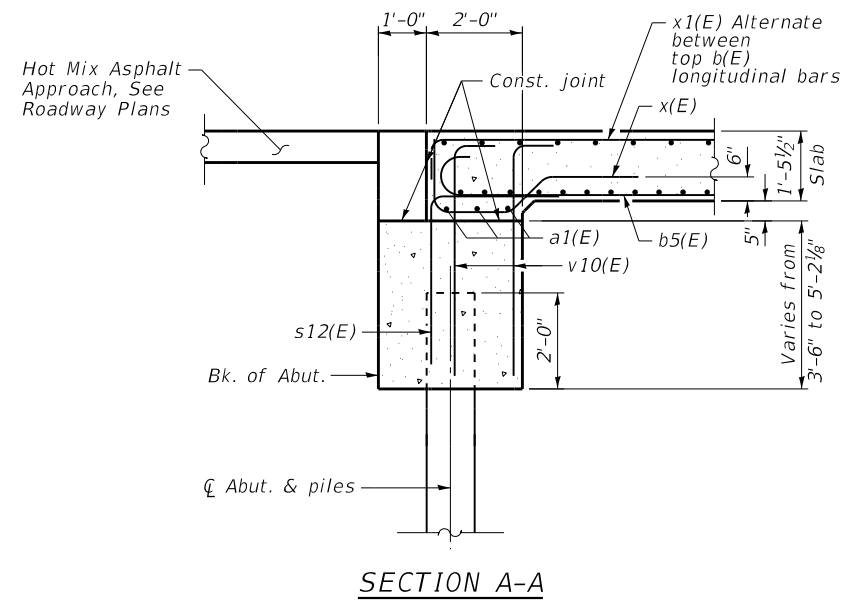
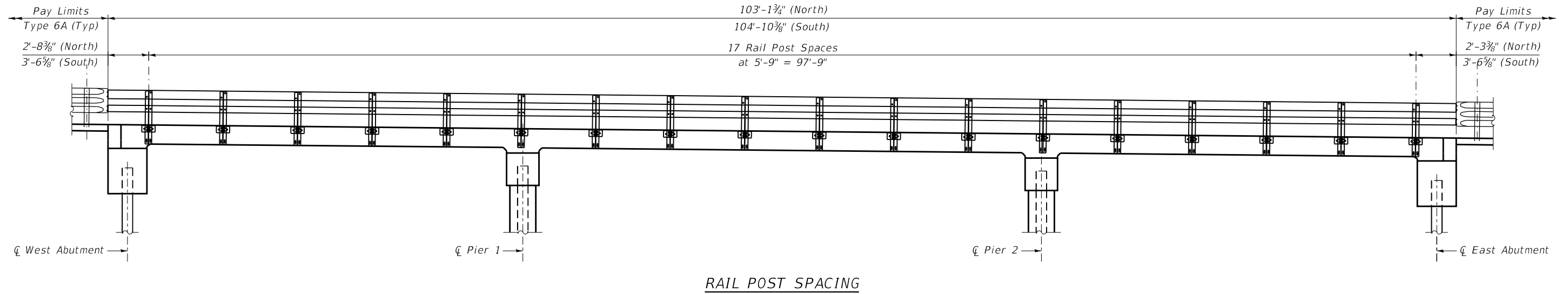
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	DATE - 1/5/2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DECK PLAN AND CROSS SECTION
 STRUCTURE NO. 019-3077

SHEET 5-06 OF 5-17 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	05-00210-00-BR	DEKALB	36	18
CONTRACT NO.			87662	
ILLINOIS FED. AID PROJECT				



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	276	#7	31'-8"	—
a1(E)	10	#4	31'-8"	—
a2(E)	246	#6	7'-7"	L
b(E)	64	#6	13'-11"	—
b1(E)	64	#9	36'-11"	—
b2(E)	51	#9	23'-10"	—
b3(E)	62	#9	14'-5"	—
b4(E)	52	#9	26'-8"	—
b5(E)	102	#9	24'-8"	U
b6(E)	32	#6	12'-4"	—
x(E)	66	#5	6'-2"	L
x1(E)	62	#5	8'-10"	L
x2(E)	66	#5	9'-2"	W
Concrete Superstructure			Sq Yd	184.8
Bridge Deck Grooving			Sq Yd	340
Protective Coat			Sq Yd	404
Reinforcement Bars, Epoxy Coated			Pound	52,910

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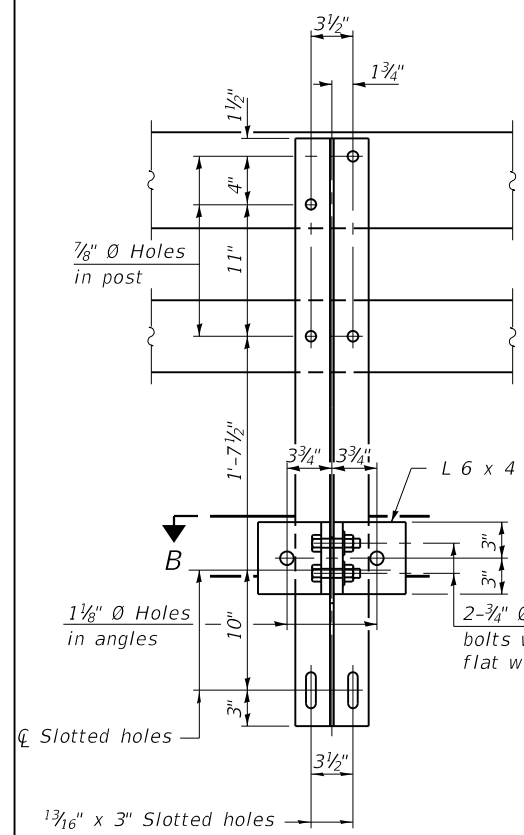
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	DATE - 1/5/2021	REVISED -

STATE OF ILLINOIS
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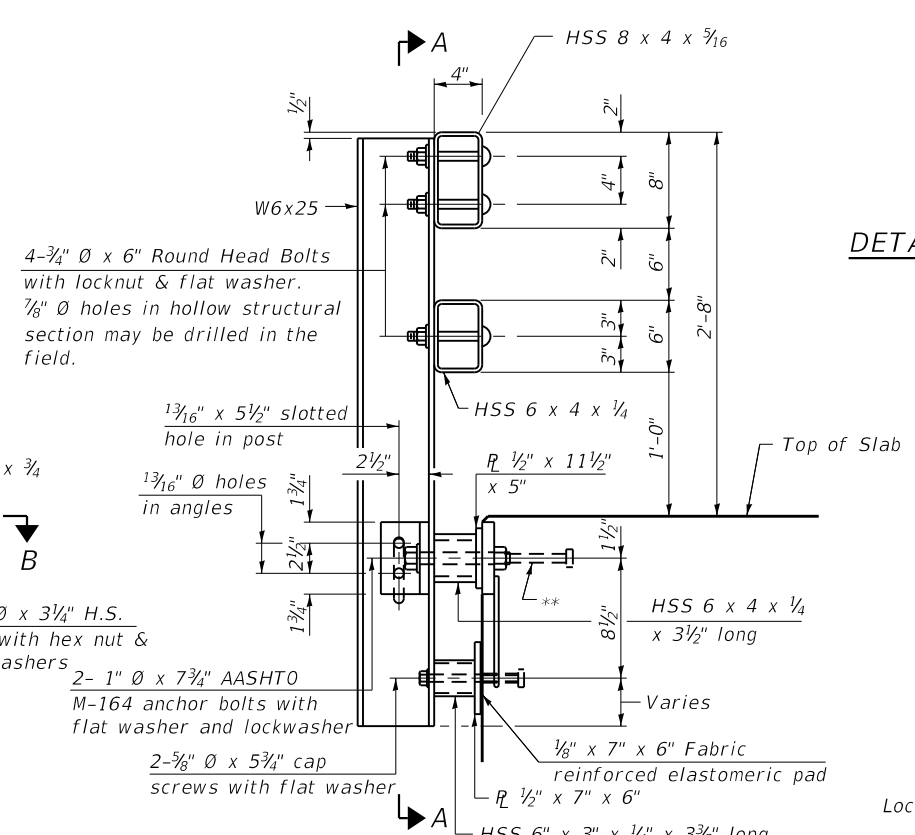
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 019-3077

SHEET S-07 OF S-17 SHEETS

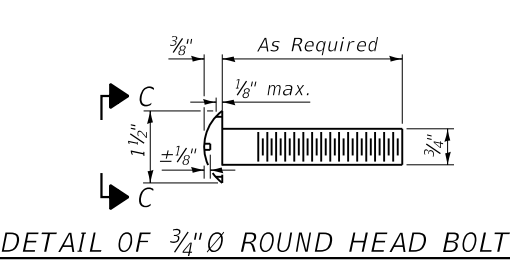
FAS RTE. 172	SECTION 05-00210-00-BR	COUNTY DEKALB	TOTAL SHEETS 36	SHEET NO. 19
CONTRACT NO. 87662			ILLINOIS FED. AID PROJECT	



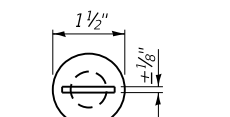
SECTION A-A



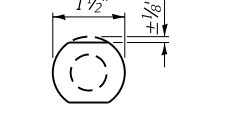
SECTION AT RAIL POST



DETAIL OF 3/4" Ø ROUND HEAD BOLT

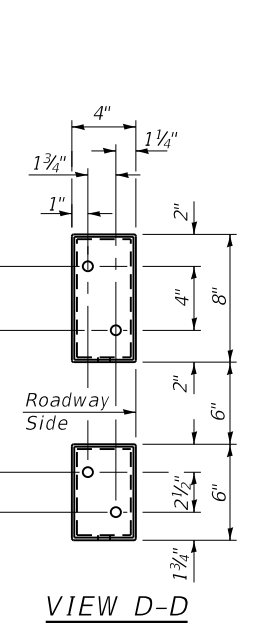


With Slot (shown) or Approved Recess

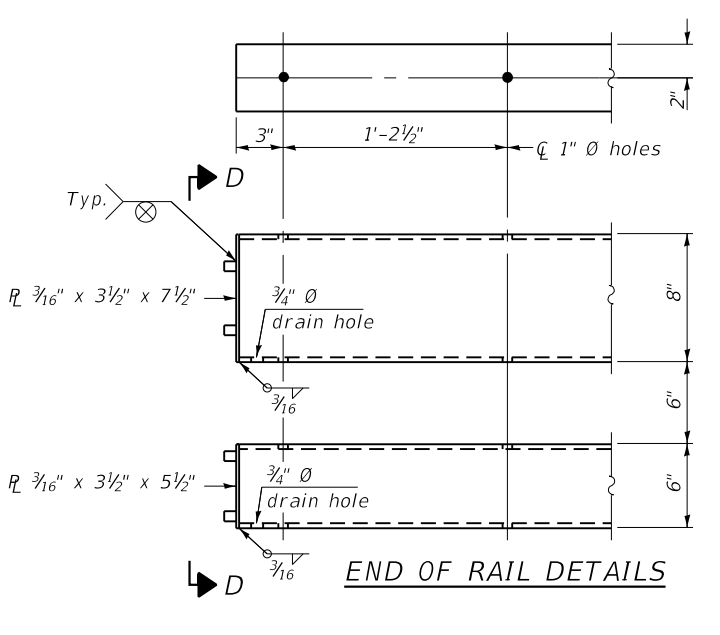


Without Slot or Recess

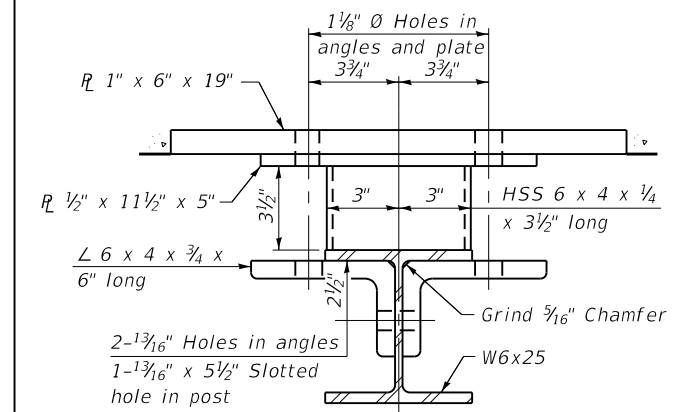
VIEW C-C



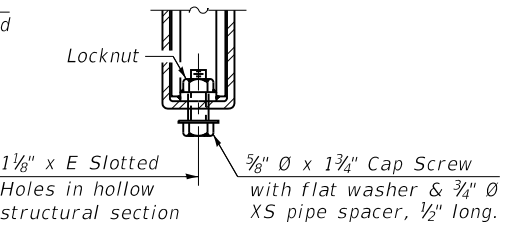
VIEW D-D



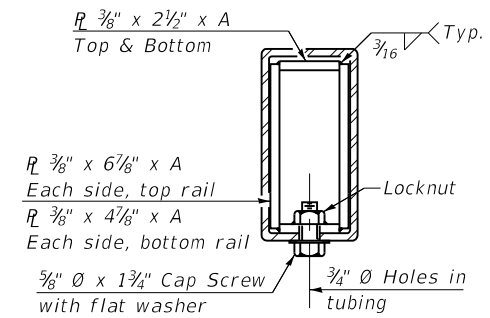
END OF RAIL DETAILS



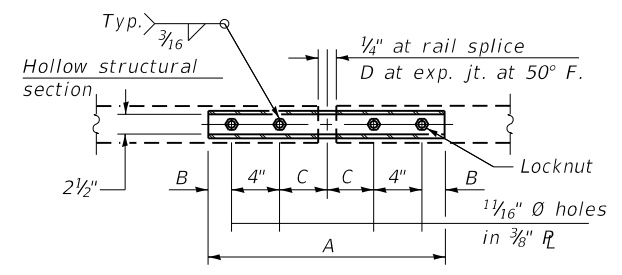
SECTION B-B



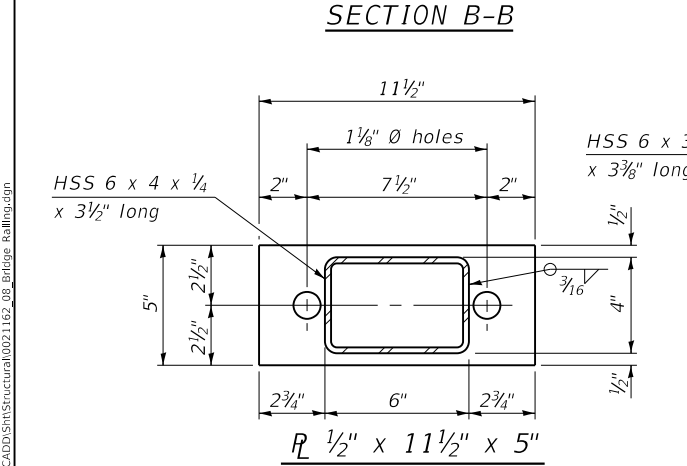
RAIL SPLICE CONNECTION AT EXPANSION JT.



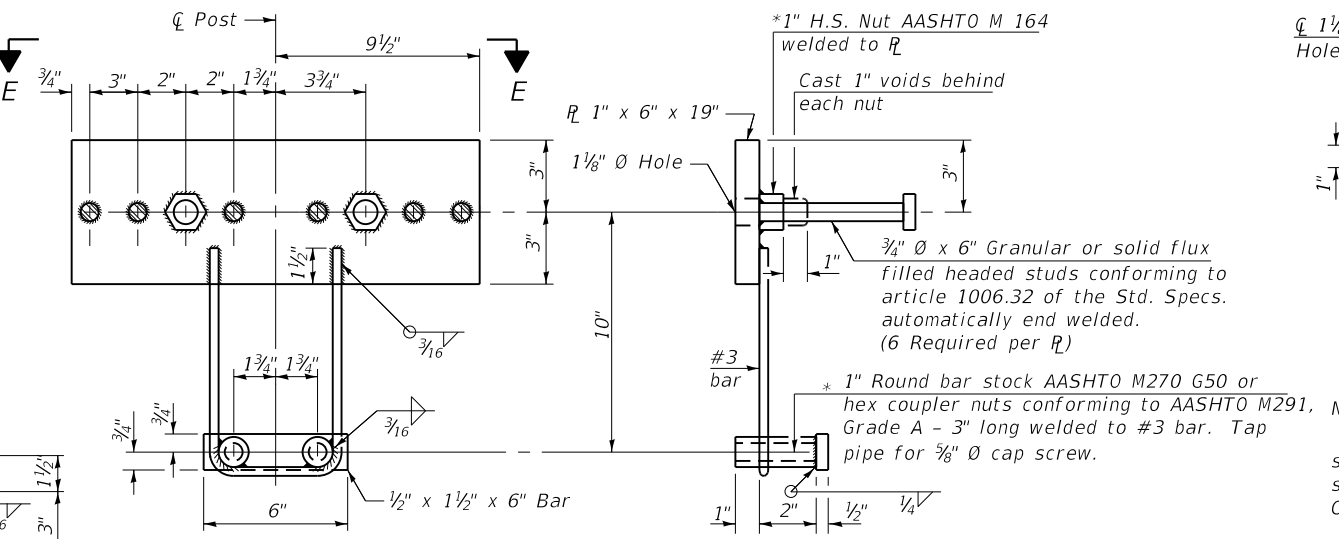
SECTION AT RAIL SPLICE



PLAN-BOTT. SPLICE R TYPICAL



SECTION B-B



ANCHOR DEVICE

SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

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

Notes:
 For multi-span bridges, sufficient 1/4" 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	208

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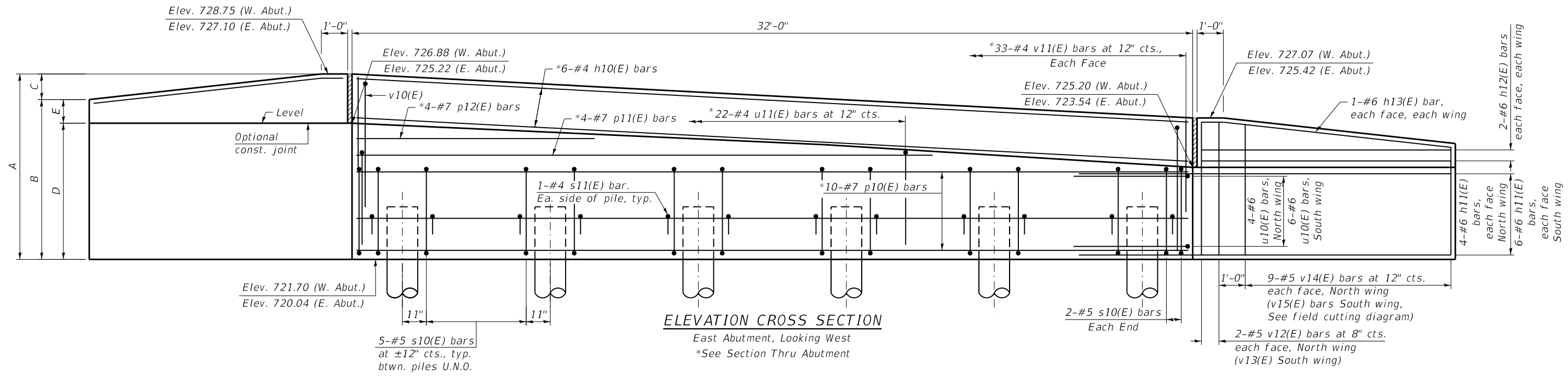
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	- SBA	-
	- BWS	-
	-	-

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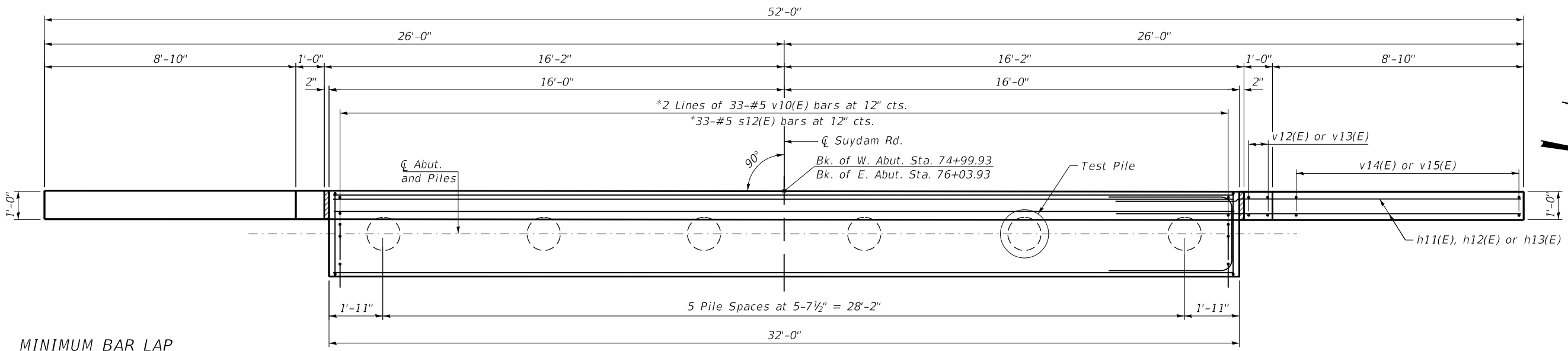
BRIDGE RAILING
 STRUCTURE NO. 019-3077

SHEET 5-08 OF 5-17 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	05-00210-00-BR	DEKALB	36	20
				CONTRACT NO. 87662
ILLINOIS FED. AID PROJECT				



ELEVATION CROSS SECTION
East Abutment, Looking West
*See Section Thru Abutment



PLAN
*See Section Thru Abutment

MINIMUM BAR LAP
#4 bar = 2'-11"
#5 bar = 3'-7"
#6 bar = 4'-4"
#7 bar = 5'-0"

W. ABUT. PILE DATA
Type: Metal Shell Pile 14"x0.312"
Nominal Required Bearing: 348 kips
Factored Resistance Available: 191 kips
Est. Length: 44'
No. Production Piles: 5
No. Test Piles: 1

E. ABUT. PILE DATA
Type: Metal Shell Pile 14"x0.312"
Nominal Required Bearing: 441 kips
Factored Resistance Available: 243 kips
Est. Length: 60'
No. Production Piles: 5
No. Test Piles: 1

NOTES:
1. For Section thru Abutment see sheet S-10.
2. For bar bend diagrams, field cutting diagrams and Bill of Material see sheet S-10.
3. For details of piles see sheet S-13.

WINGWALL DIMENSIONS

LOCATION	W. ABUT.		E. ABUT.	
	NW	SW	NE	SE
A	5'-4 1/2"	7'-0 5/8"	5'-4 1/2"	7'-0 5/8"
B	4'-5"	6'-0 7/8"	4'-5"	6'-0 7/8"
C	11 1/2"	11 3/4"	11 1/2"	11 3/4"
D	3'-6"	5'-2 1/8"	3'-6"	5'-2 1/8"
E	11"	10 3/4"	11"	10 3/4"

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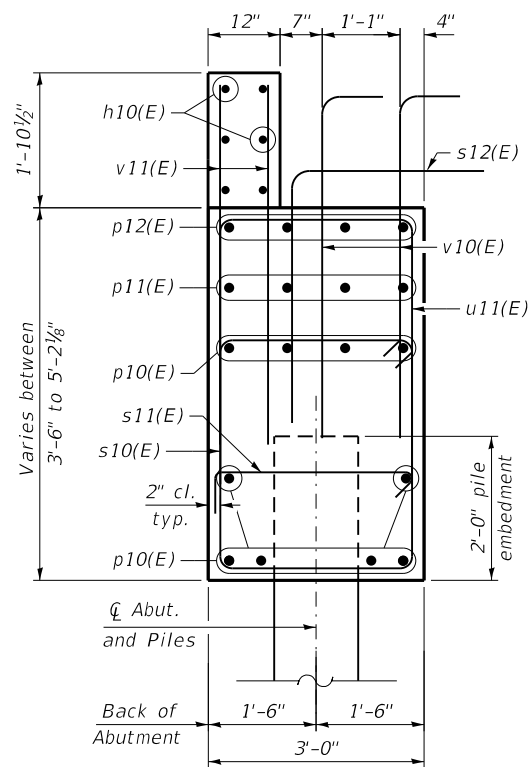
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WEST AND EAST ABUTMENT
STRUCTURE NO. 019-3077**

SHEET 5-09 OF S-17 SHEETS

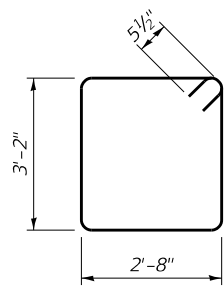
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CONTRACT NO. 87662			ILLINOIS FED. AID PROJECT	

**BILL OF MATERIAL
TWO ABUTMENTS**

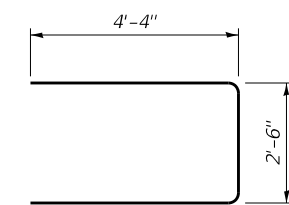


SECTION THRU ABUT.

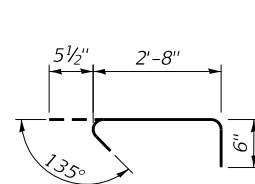
BAR h13(E)



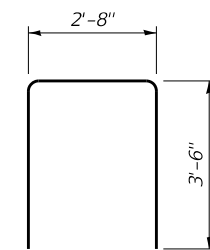
BAR s10(E)



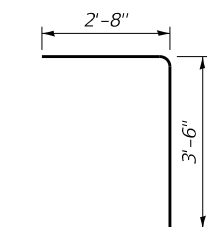
BAR u10(E)



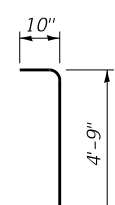
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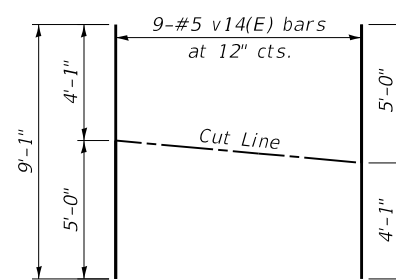
BAR u11(E)



BAR s12(E)

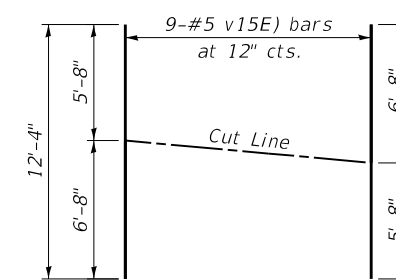


BAR v10(E)



**FIELD CUTTING
DIAGRAM**

Order v14(E) full length. Cut as shown and use remainder of bars in opposite face.



**FIELD CUTTING
DIAGRAM**

Order v15(E) full length. Cut as shown and use remainder of bars in opposite face.

Bar	No.	Size	Length	Shape
h10(E)	12	#4	31'-8"	—
h11(E)	40	#6	14'-2"	—
h12(E)	16	#6	9'-6"	—
h13(E)	8	#6	9'-6"	—
p10(E)	20	#7	31'-8"	—
p11(E)	8	#7	22'-0"	—
p12(E)	8	#7	9'-6"	—
s10(E)	58	#5	12'-7"	□
s11(E)	24	#4	3'-8"	┌
s12(E)	66	#5	6'-2"	└
u10(E)	20	#6	11'-2"	┌
u11(E)	44	#4	9'-8"	└
v10(E)	132	#5	5'-7"	└
v11(E)	132	#4	5'-0"	—
v12(E)	8	#5	5'-0"	—
v13(E)	8	#5	6'-8"	—
v14(E)	18	#5	9'-1"	—
v15(E)	18	#5	12'-4"	—
Structure Excavation			Cu Yd	173.0
Concrete Structures			Cu Yd	44.2
Reinforcement Bars, Epoxy Coated			Pound	6,840
Furnishing Metal Shell Piles 14" X 0.312"			Foot	520
Driving Piles			Foot	520
Test Pile Metal Shells			Each	2
Geocomposite Wall Drain			Sq Yd	68
Granular Backfill For Structures			Cu Yd	96
Pipe Underdrains For Structures 4"			Foot	144

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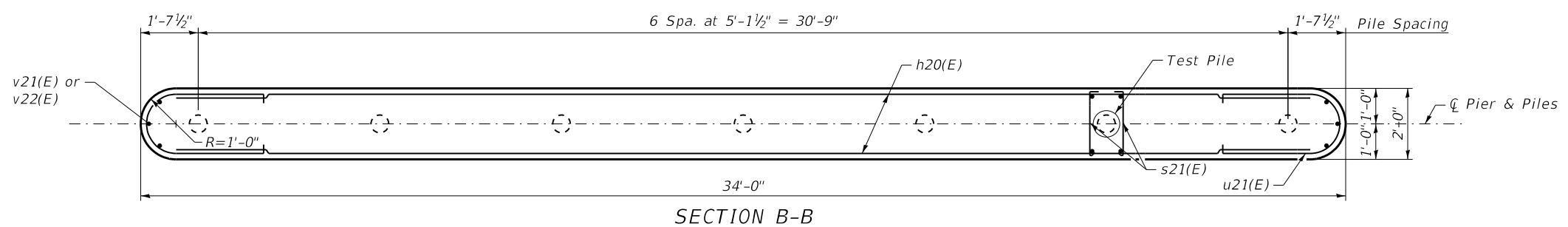
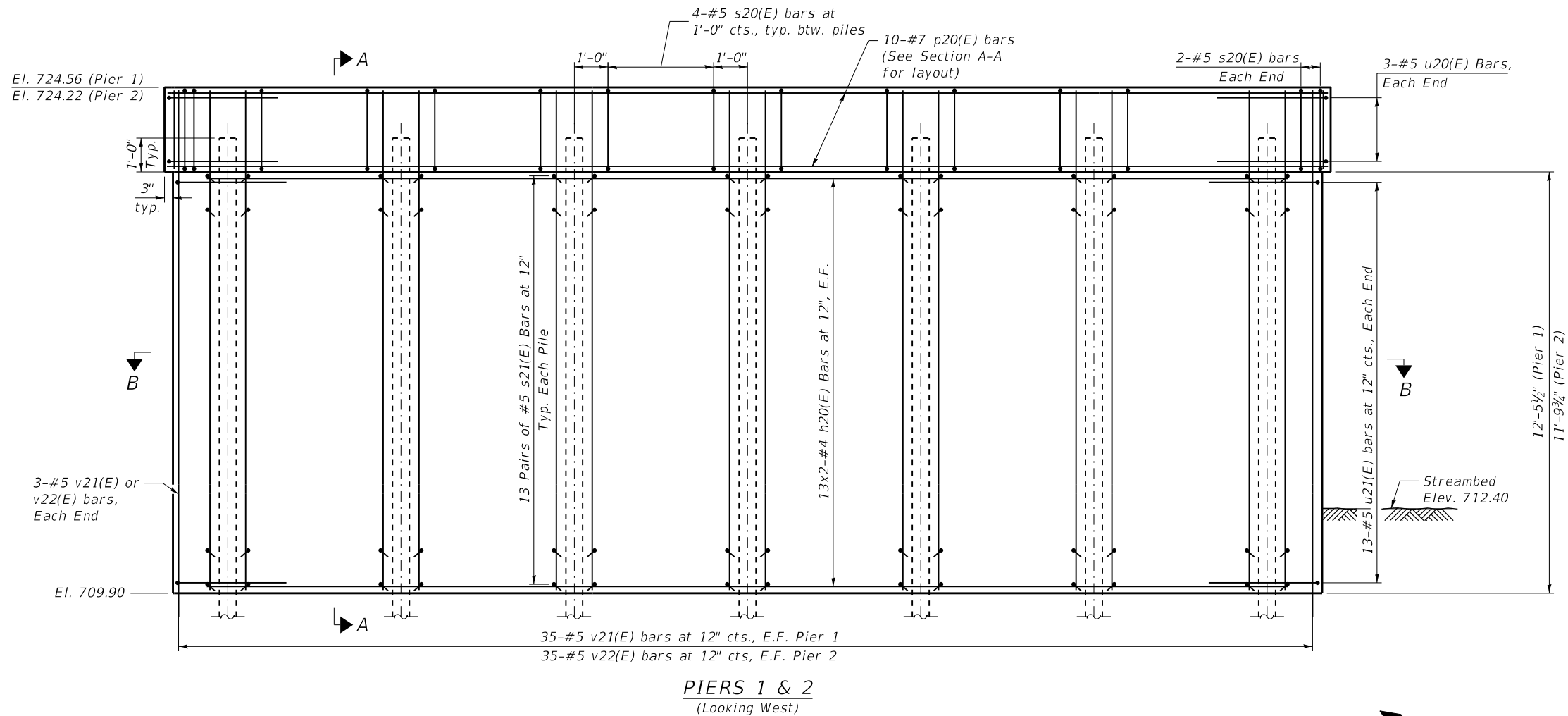
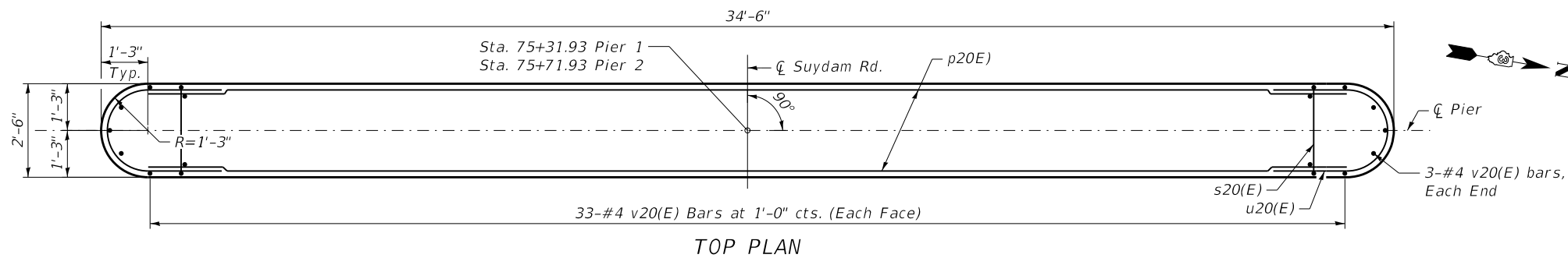
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ABUTMENT DETAILS
STRUCTURE NO. 019-3077**

SHEET 5-10 OF 5-17 SHEETS

FAS RTE. 172	SECTION 05-00210-00-BR	COUNTY DEKALB	TOTAL SHEETS 36	SHEET NO. 22
CONTRACT NO. 87662			ILLINOIS FED. AID PROJECT	



MIN. BAR LAP
#4 bar = 2'-11"

NOTES:

1. See Sheet S-12 for Section A-A.
2. See Sheet S-13 for Pile Details.
3. Any dewatering or stream diversion required for excavation or construction of piers is included with cost of Concrete Structures.

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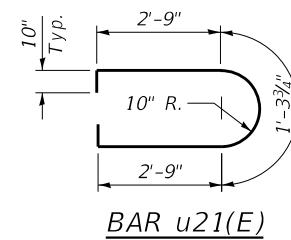
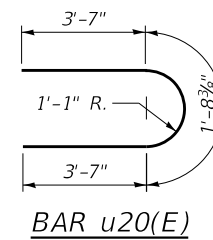
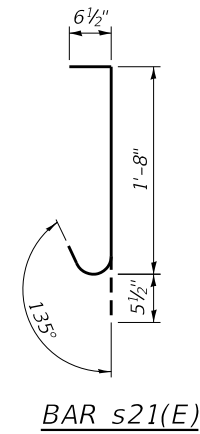
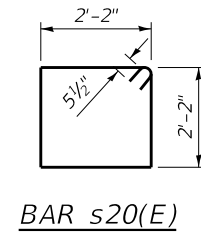
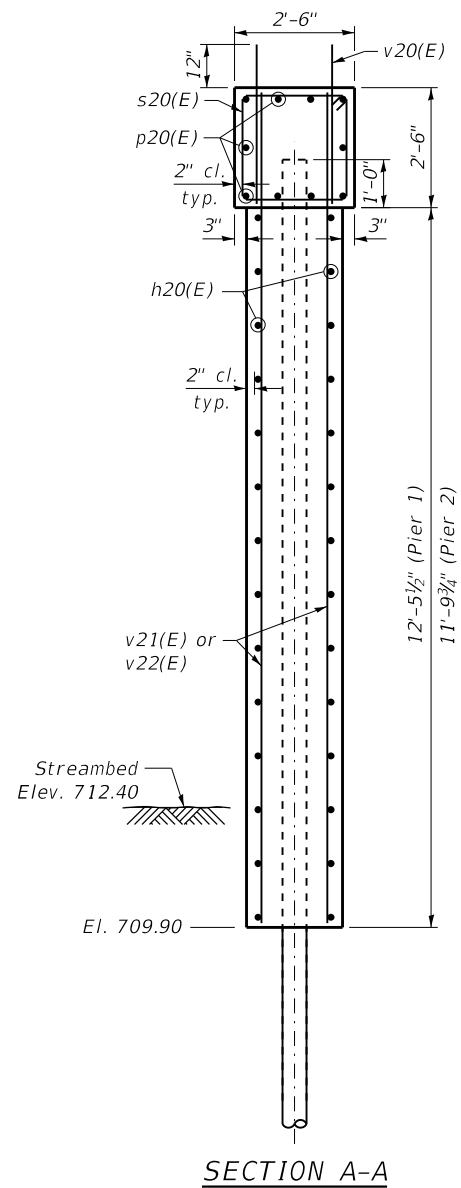
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 1 AND 2
STRUCTURE NO. 019-3077**

SHEET S-11 OF S-17 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	05-00210-00-BR	DEKALB	36	23
CONTRACT NO.			87662	
ILLINOIS FED. AID PROJECT				



**BILL OF MATERIAL
TWO PIERS**

Bar	No.	Size	Length	Shape
h20(E)	104	#4	18'-4"	—
p20(E)	20	#7	32'-0"	—
s20(E)	56	#5	9'-7"	□
s21(E)	364	#5	2'-8"	└┘
u20(E)	12	#5	8'-11"	┌┐
u21(E)	52	#5	8'-6"	┌┐
v20(E)	144	#4	3'-4"	—
v21(E)	76	#5	14'-8"	—
v22(E)	76	#5	13'-11"	—
Structure Excavation			Cu Yd	43.0
Concrete Structures			Cu Yd	76.2
Reinforcement Bars, Epoxy Coated			Pound	7,320
Furnishing Metal Shell Piles 14" X 0.312"			Foot	642
Driving Piles			Foot	642
Test Pile Metal Shells			Each	2

PILE DATA - PIER 1

Type: Metal Shell 14"x0.312"
 Nominal Required Bearing: 337 kips
 Factored Resistance Available: 184 kips
 Est. Length: 40'
 No. Production Piles: 6
 No. Test Piles: 1

MIN. BAR LAP

#4 bar = 2'-11"

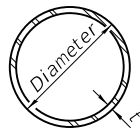
PILE DATA - PIER 2

Type: Metal Shell 14"x0.312"
 Nominal Required Bearing: 327 kips
 Factored Resistance Available: 180 kips
 Est. Length: 67'
 No. Production Piles: 6
 No. Test Piles: 1

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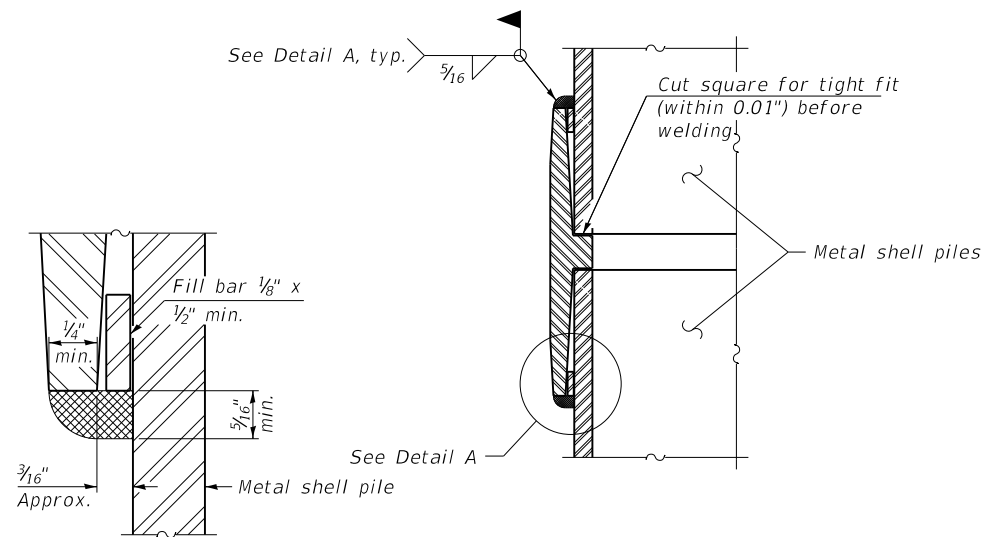
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CONTRACT NO.			87662	
ILLINOIS FED. AID PROJECT				

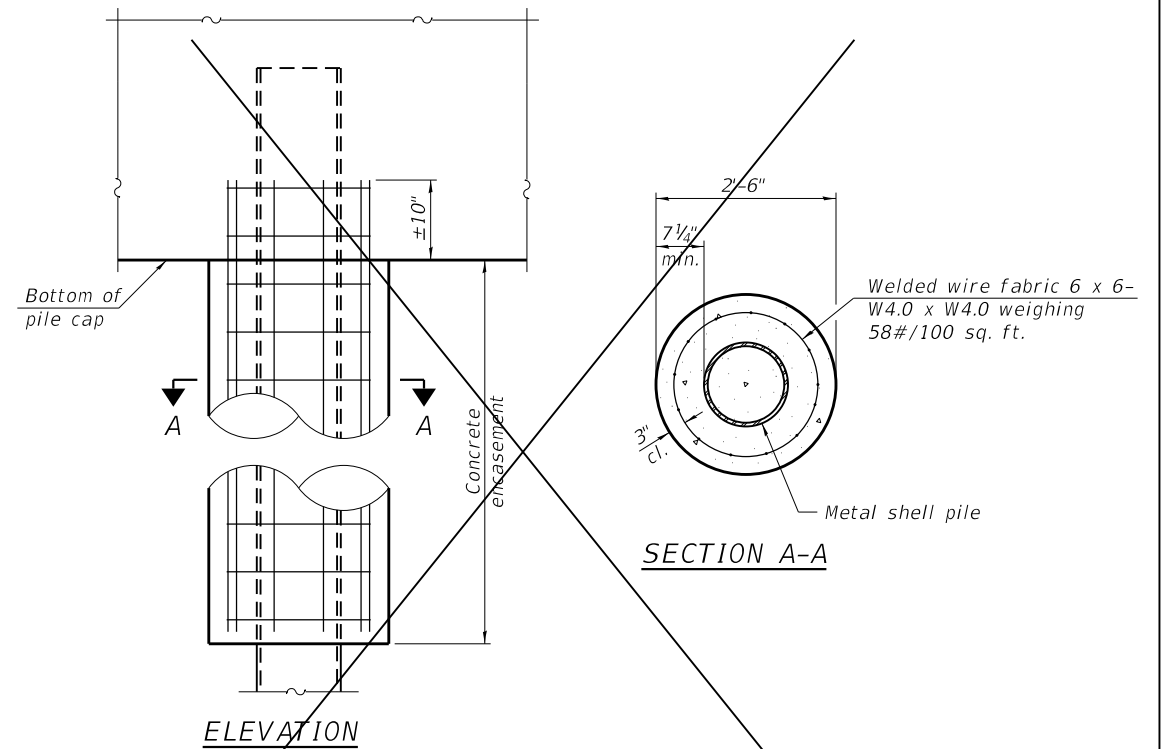


METAL SHELL PILE TABLE

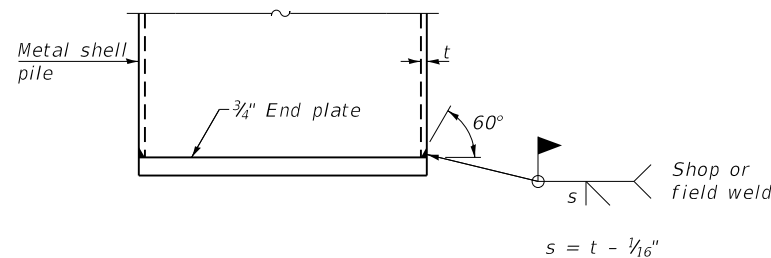
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



DETAIL A

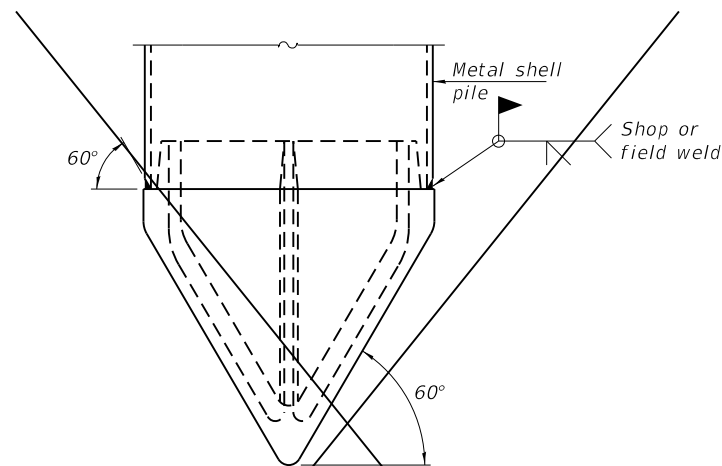


INDIVIDUAL PILE CONCRETE ENCASEMENT AT PIERS



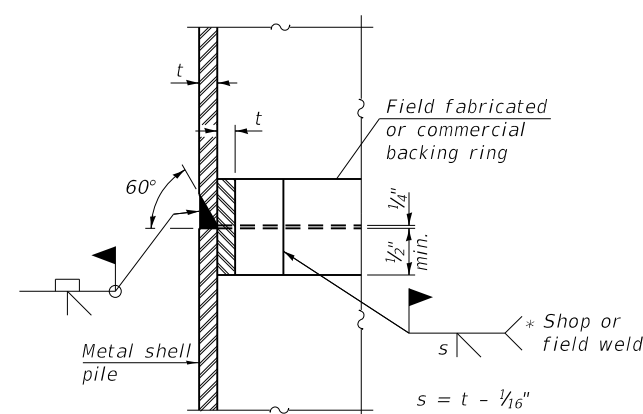
END PLATE ATTACHMENT

WELDED COMMERCIAL SPLICE
 Notes:
 The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
 Pile segments shall be driven to solid contact with splicer before welding.

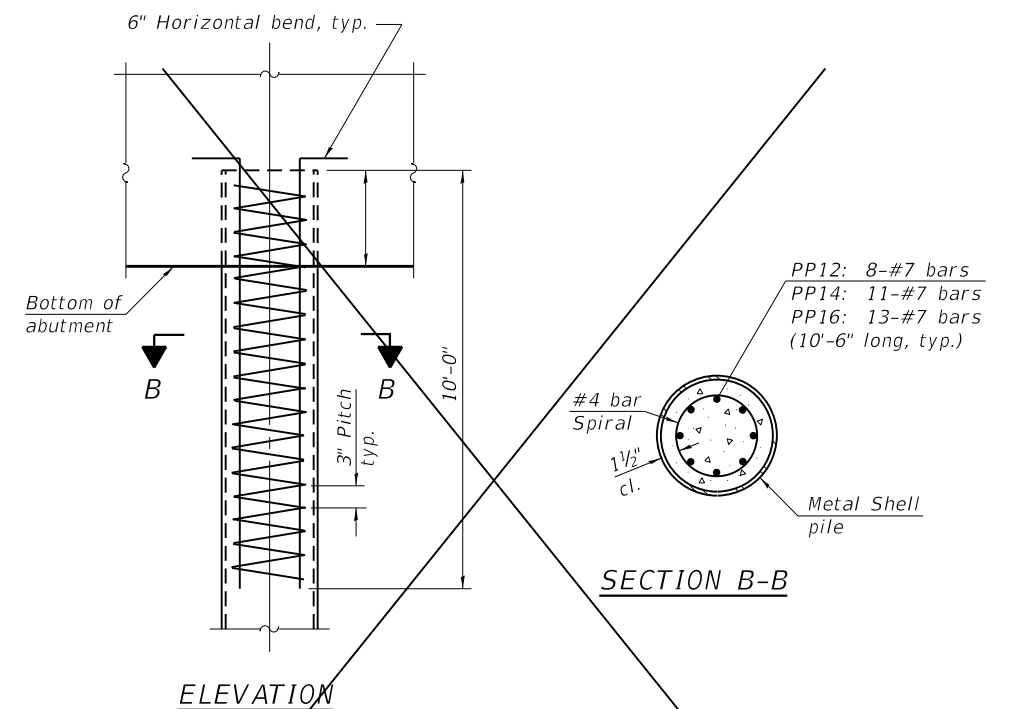


PILE SHOE ATTACHMENT

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).



COMPLETE PENETRATION WELD SPLICE
 * Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



REINFORCEMENT AT ABUTMENTS

Note:
 The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

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F-MS 8-11-2017



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**METAL SHELL PILE DETAILS
 STRUCTURE NO. 019-3077**

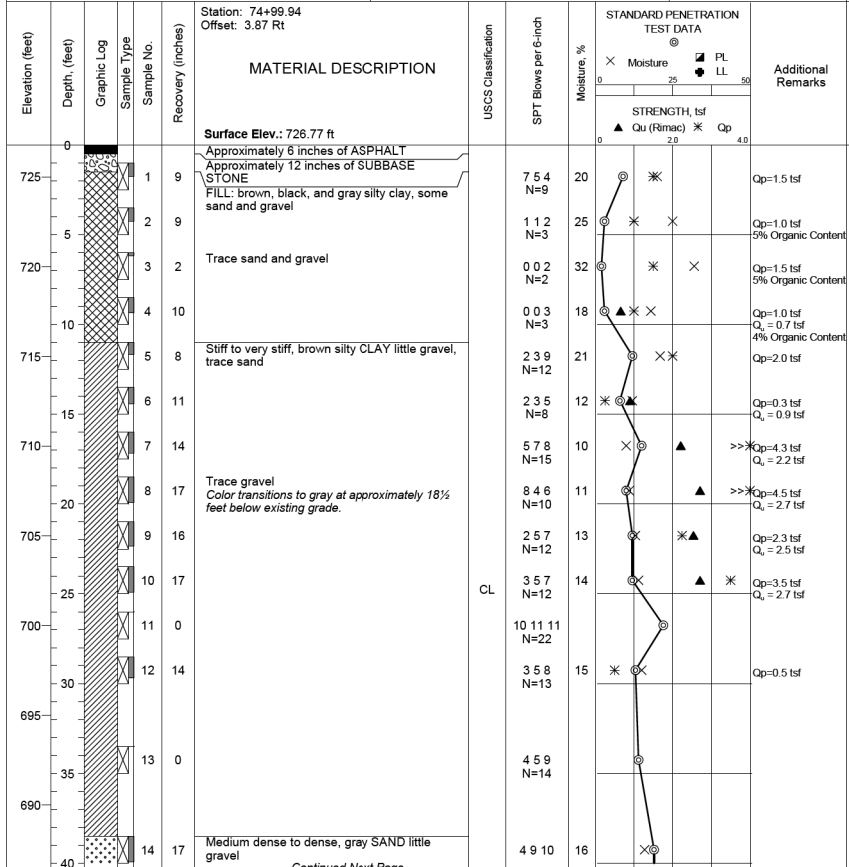
SHEET 5-13 OF 5-17 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	05-00210-00-BR	DEKALB	36	25
CONTRACT NO.			87662	
ILLINOIS FED. AID PROJECT				

Rubino Job No.: G20.077 Project: Suydam Road Bridge Replacement Location: Suydam Road over Indian Creek City, State: DeKalb County, Illinois Client: Ciorba Group, Inc.

Drilling Method: 3 1/4 Hollow Stem Auger Sampling Method: Split Spoon Hammer Type: Automatic Boring Location: West Abutment 4 1/2 feet N from edge of pavement

WATER LEVELS***
 While Drilling N/A
 Upon Completion N/A
 Delay N/A



Completion Depth: 75.0 ft Date Boring Started: 8/31/20 Date Boring Completed: 8/31/20 Logged By: P.P. Drilling Contractor: Rubino Engineering, Inc.

Sample Types: Auger Cutting Split-Spoon Rock Core

Pressuremeter Shelby Tube Hand Auger No Recovery

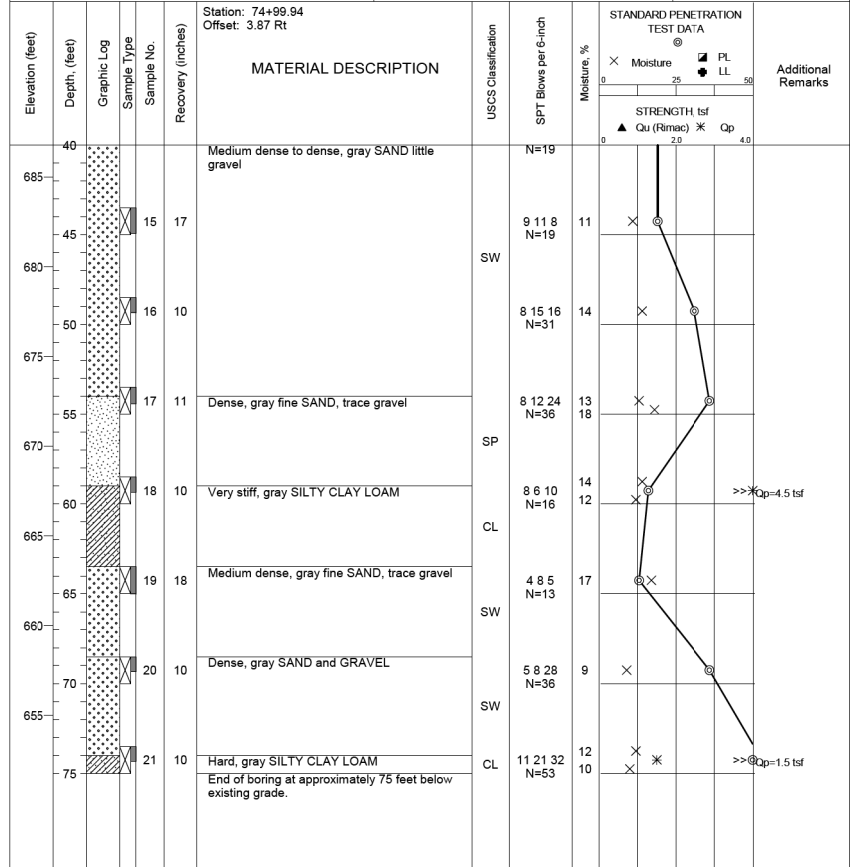
Latitude: 41.6707510 Longitude: -88.8601501 Drill Rig: Geoprobe 7822DT

The stratification lines represent approximate boundaries. The transition may be gradual. ***Please reference the geotechnical report text for specific groundwater / dewatering recommendations.

Rubino Job No.: G20.077 Project: Suydam Road Bridge Replacement Location: Suydam Road over Indian Creek City, State: DeKalb County, Illinois Client: Ciorba Group, Inc.

Drilling Method: 3 1/4 Hollow Stem Auger Sampling Method: Split Spoon Hammer Type: Automatic Boring Location: West Abutment 4 1/2 feet N from edge of pavement

WATER LEVELS***
 While Drilling N/A
 Upon Completion N/A
 Delay N/A



Completion Depth: 75.0 ft Date Boring Started: 8/31/20 Date Boring Completed: 8/31/20 Logged By: P.P. Drilling Contractor: Rubino Engineering, Inc.

Sample Types: Auger Cutting Split-Spoon Rock Core

Pressuremeter Shelby Tube Hand Auger No Recovery

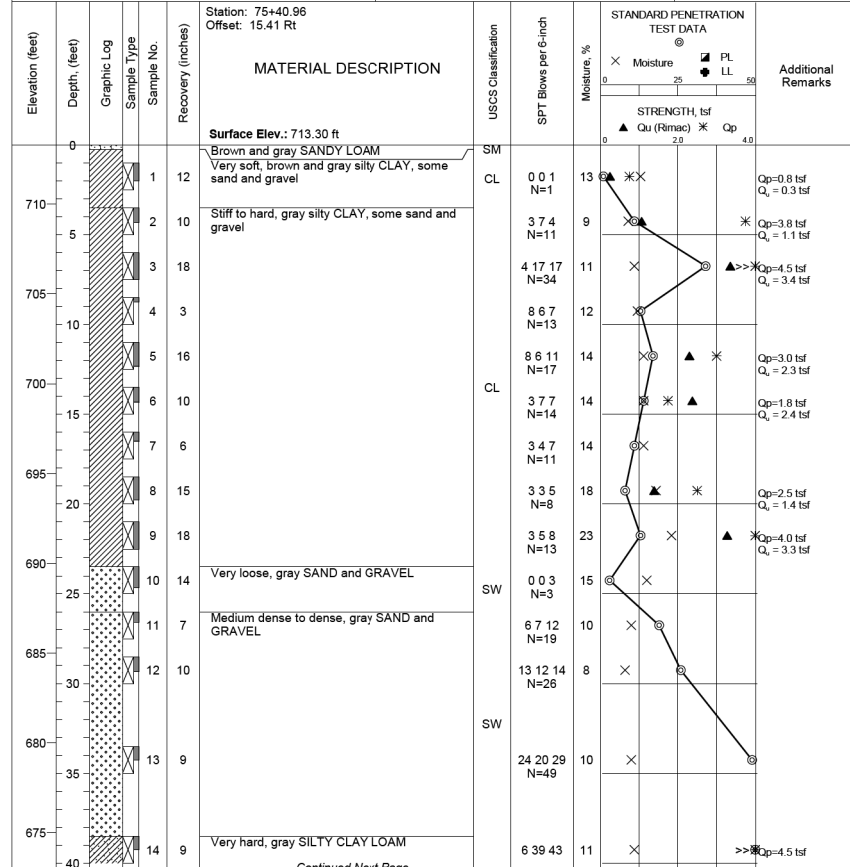
Latitude: 41.6707510 Longitude: -88.8601501 Drill Rig: Geoprobe 7822DT

The stratification lines represent approximate boundaries. The transition may be gradual. ***Please reference the geotechnical report text for specific groundwater / dewatering recommendations.

Rubino Job No.: G20.077 Project: Suydam Road Bridge Replacement Location: Suydam Road over Indian Creek City, State: DeKalb County, Illinois Client: Ciorba Group, Inc.

Drilling Method: 3 1/4 Hollow Stem Auger Sampling Method: Split Spoon Hammer Type: Automatic Boring Location: West Center Pier In creek bed, south of bridge

WATER LEVELS***
 While Drilling N/A
 Upon Completion N/A
 Delay N/A



Completion Depth: 60.0 ft Date Boring Started: 9/2/20 Date Boring Completed: 9/15/20 Logged By: P.P. Drilling Contractor: Rubino Engineering, Inc.

Sample Types: Auger Cutting Split-Spoon Rock Core

Pressuremeter Shelby Tube Hand Auger No Recovery

Latitude: 41.670741 Longitude: -88.859994 Drill Rig: Geoprobe 7822DT

The stratification lines represent approximate boundaries. The transition may be gradual. ***Please reference the geotechnical report text for specific groundwater / dewatering recommendations.

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USER NAME = Structural	DESIGNED - KEC	REVISED -
PLOT SCALE = 0.2,0000 "/>		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS 1
 STRUCTURE NO. 019-3077

FAS RTE. 172	SECTION 05-002.10-00-BR	COUNTY DEKALB	TOTAL SHEETS 36	SHEET NO. 26
CONTRACT NO. 87662			ILLINOIS FED. AID PROJECT	

SHEET 5-14 OF 5-17 SHEETS

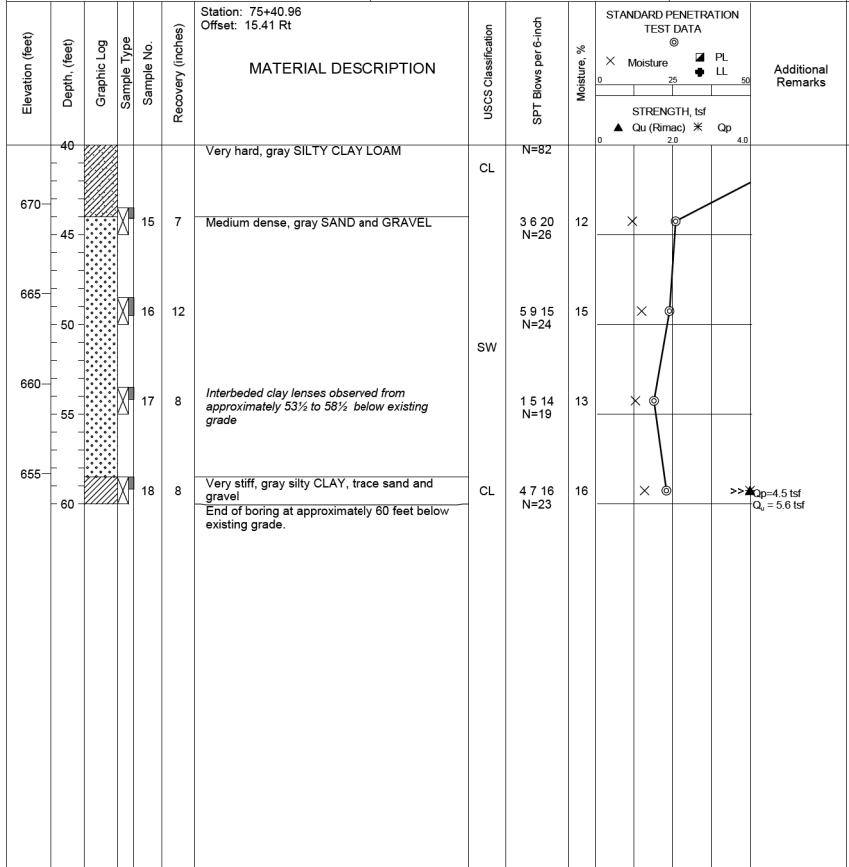
LOG OF BORING BSB-02

Sheet 2 of 2

Rubino Job No.: G20.077 Project: Suydam Road Bridge Replacement Location: Suydam Road over Indian Creek City, State: Dekalb County, Illinois Client: Ciorba Group, Inc.

Drilling Method: 3 1/4 Hollow Stem Auger Sampling Method: Split Spoon Hammer Type: Automatic Boring Location: West Center Pier In creek bed, south of bridge

WATER LEVELS***
 While Drilling N/A
 Upon Completion N/A
 Delay N/A



Completion Depth: 60.0 ft Date Boring Started: 9/2/20 Date Boring Completed: 9/15/20 Logged By: P.P. Drilling Contractor: Rubino Engineering, Inc.

Sample Types: Auger Cutting Split-Spoon Rock Core Pressuremeter Shelby Tube Hand Auger No Recovery

Latitude: 41.670741 Longitude: -88.859994 Drill Rig: Geoprobe 7822DT

The stratification lines represent approximate boundaries. The transition may be gradual. ***Please reference the geotechnical report text for specific groundwater / dewatering recommendations.

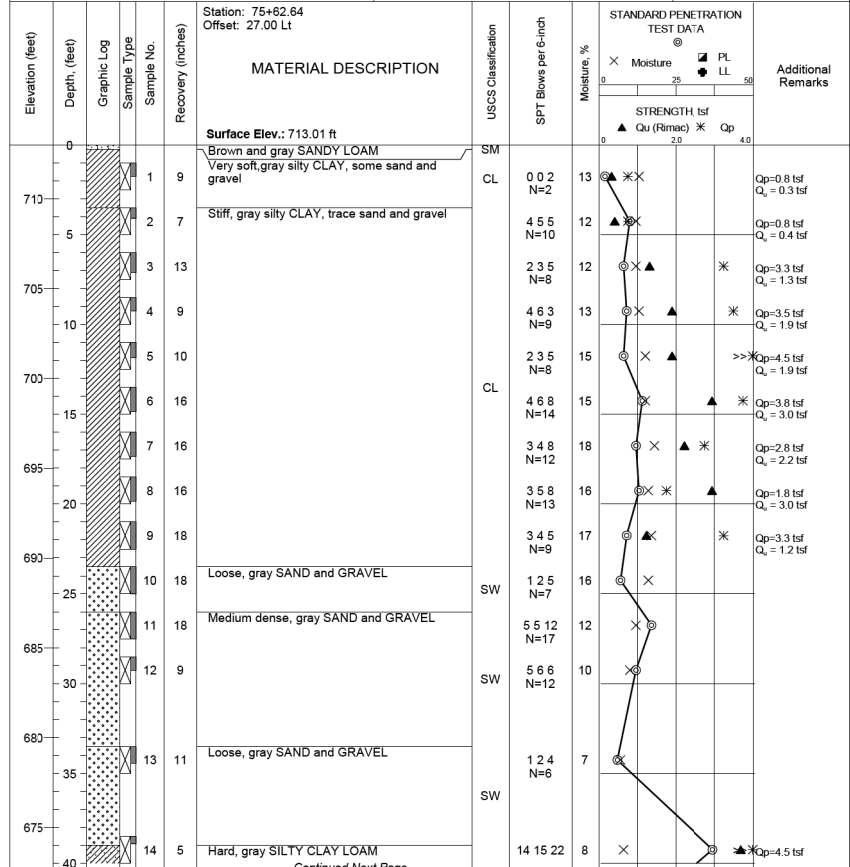
LOG OF BORING BSB-03

Sheet 1 of 2

Rubino Job No.: G20.077 Project: Suydam Road Bridge Replacement Location: Suydam Road over Indian Creek City, State: Dekalb County, Illinois Client: Ciorba Group, Inc.

Drilling Method: 3 1/4 Hollow Stem Auger Sampling Method: Split Spoon Hammer Type: Automatic Boring Location: East Center Pier In creek bed, north of bridge

WATER LEVELS***
 While Drilling N/A
 Upon Completion N/A
 Delay N/A



Completion Depth: 60.0 ft Date Boring Started: 9/15/20 Date Boring Completed: 9/15/20 Logged By: P.P. Drilling Contractor: Rubino Engineering, Inc.

Sample Types: Auger Cutting Split-Spoon Rock Core Pressuremeter Shelby Tube Hand Auger No Recovery

Latitude: 41.670867 Longitude: -88.859948 Drill Rig: Geoprobe 7822DT

The stratification lines represent approximate boundaries. The transition may be gradual. ***Please reference the geotechnical report text for specific groundwater / dewatering recommendations.

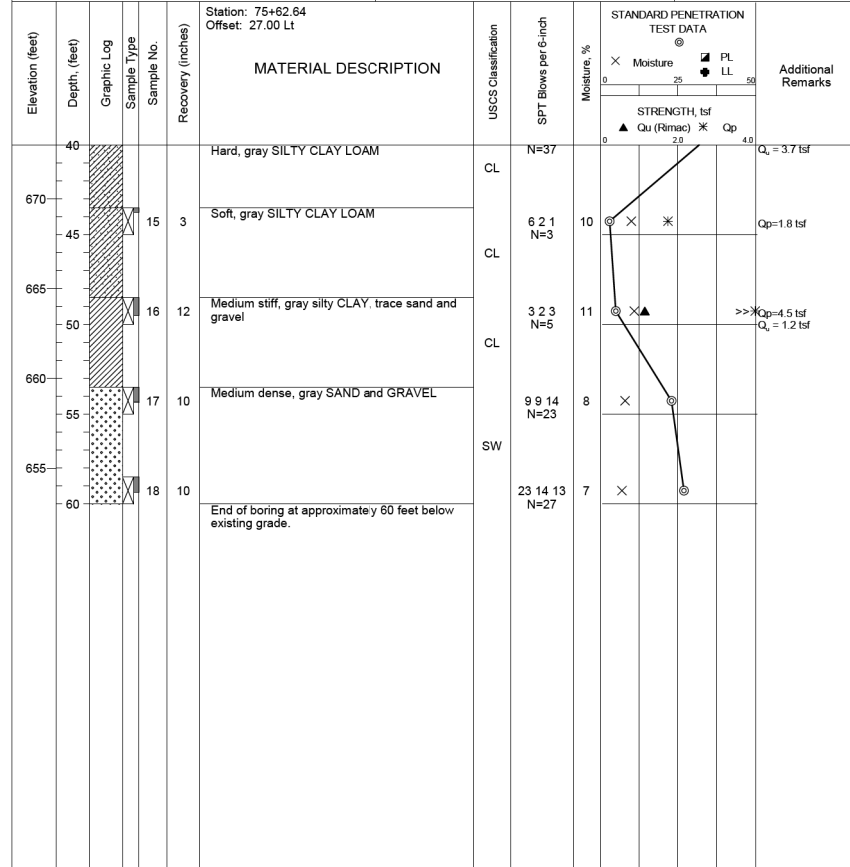
LOG OF BORING BSB-03

Sheet 2 of 2

Rubino Job No.: G20.077 Project: Suydam Road Bridge Replacement Location: Suydam Road over Indian Creek City, State: Dekalb County, Illinois Client: Ciorba Group, Inc.

Drilling Method: 3 1/4 Hollow Stem Auger Sampling Method: Split Spoon Hammer Type: Automatic Boring Location: East Center Pier In creek bed, north of bridge

WATER LEVELS***
 While Drilling N/A
 Upon Completion N/A
 Delay N/A



Completion Depth: 60.0 ft Date Boring Started: 9/15/20 Date Boring Completed: 9/15/20 Logged By: P.P. Drilling Contractor: Rubino Engineering, Inc.

Sample Types: Auger Cutting Split-Spoon Rock Core Pressuremeter Shelby Tube Hand Auger No Recovery

Latitude: 41.670867 Longitude: -88.859948 Drill Rig: Geoprobe 7822DT

The stratification lines represent approximate boundaries. The transition may be gradual. ***Please reference the geotechnical report text for specific groundwater / dewatering recommendations.

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PLOT DATE = 1/5/2021	CHECKED - BWS	REVISED -
	DATE - 1/5/2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS 2
 STRUCTURE NO. 019-3077

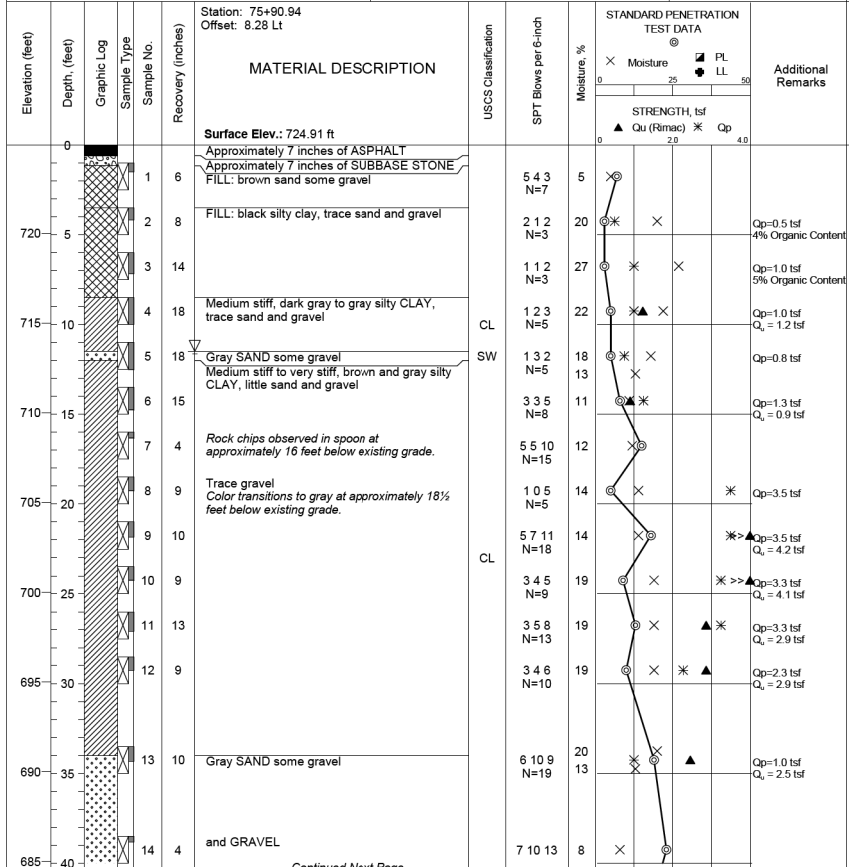
SHEET 5-15 OF 5-17 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	05-002 10-00-BR	DEKALB	36	27
CONTRACT NO.			87662	
ILLINOIS		FED. AID PROJECT		

Rubino Job No.: G20.077 Project: Suydam Road Bridge Replacement Location: Suydam Road over Indian Creek City, State: Dekalb County, Illinois Client: Ciorba Group, Inc.

Drilling Method: 3 1/4 Hollow Stem Auger Sampling Method: Split Spoon Hammer Type: Automatic Boring Location: East Abutment 4 feet S from edge of pavement

WATER LEVELS***
 While Drilling 11.5 ft
 Upon Completion N/A
 Delay N/A



Completion Depth: 75.0 ft Date Boring Started: 8/28/20 Date Boring Completed: 9/1/20 Logged By: P.P. Drilling Contractor: Rubino Engineering, Inc.

Sample Types: Auger Cutting, Split-Spoon, Rock Core, Pressuremeter, Shelby Tube, Hand Auger, No Recovery

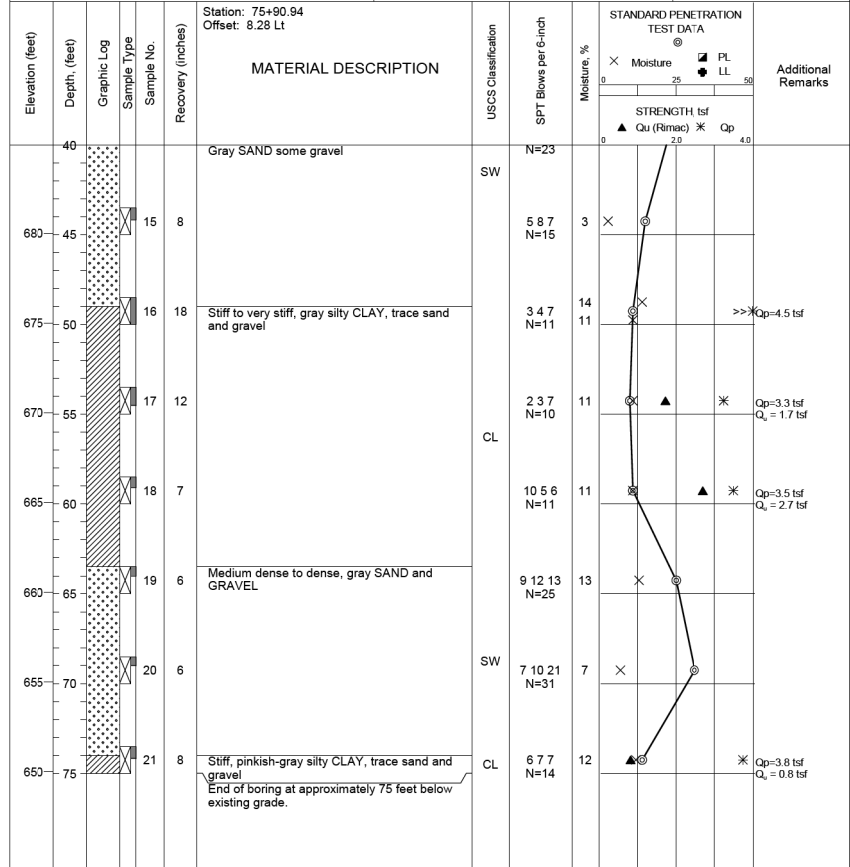
Latitude: 41.6708334 Longitude: -88.8598330 Drill Rig: Geoprobe 7822DT

The stratification lines represent approximate boundaries. The transition may be gradual. ***Please reference the geotechnical report text for specific groundwater / dewatering recommendations.

Rubino Job No.: G20.077 Project: Suydam Road Bridge Replacement Location: Suydam Road over Indian Creek City, State: Dekalb County, Illinois Client: Ciorba Group, Inc.

Drilling Method: 3 1/4 Hollow Stem Auger Sampling Method: Split Spoon Hammer Type: Automatic Boring Location: East Abutment 4 feet S from edge of pavement

WATER LEVELS***
 While Drilling 11.5 ft
 Upon Completion N/A
 Delay N/A



Completion Depth: 75.0 ft Date Boring Started: 8/28/20 Date Boring Completed: 9/1/20 Logged By: P.P. Drilling Contractor: Rubino Engineering, Inc.

Sample Types: Auger Cutting, Split-Spoon, Rock Core, Pressuremeter, Shelby Tube, Hand Auger, No Recovery

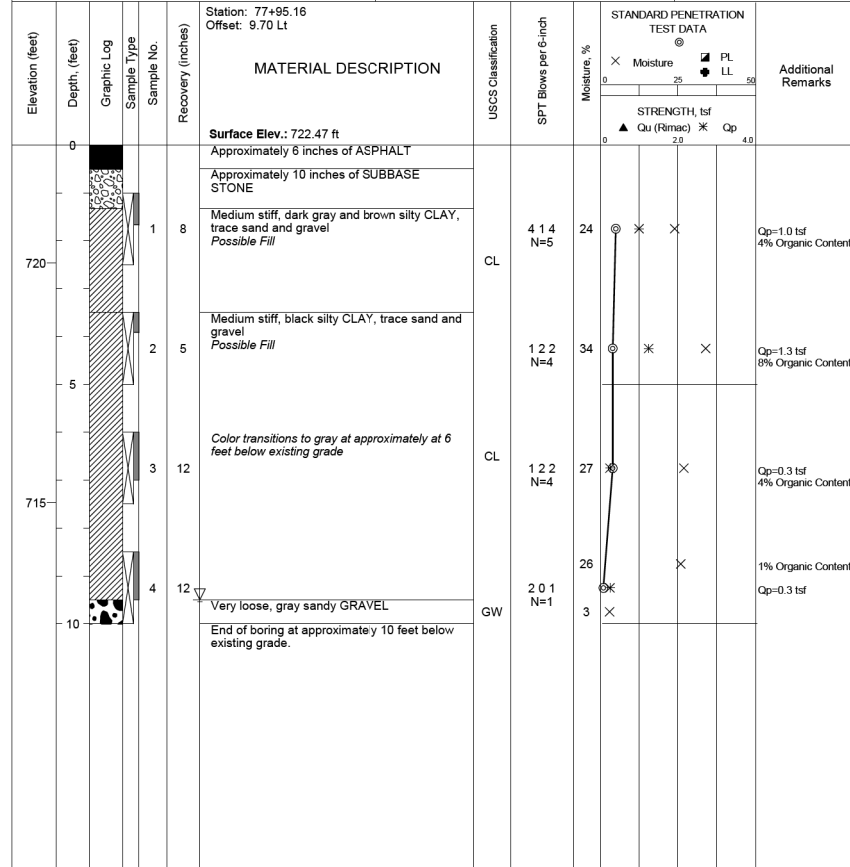
Latitude: 41.6708334 Longitude: -88.8598330 Drill Rig: Geoprobe 7822DT

The stratification lines represent approximate boundaries. The transition may be gradual. ***Please reference the geotechnical report text for specific groundwater / dewatering recommendations.

Rubino Job No.: G20.077 Project: Suydam Road Bridge Replacement Location: Suydam Road over Indian Creek City, State: Dekalb County, Illinois Client: Ciorba Group, Inc.

Drilling Method: 3 1/4 Hollow Stem Auger Sampling Method: Split Spoon Hammer Type: Automatic Boring Location: WB lane of Suydam Rd, E of bridge 3 feet S from edge of pavement

WATER LEVELS***
 While Drilling 9.5 ft
 Upon Completion N/A
 Delay N/A



Completion Depth: 10.0 ft Date Boring Started: 8/31/20 Date Boring Completed: 8/31/20 Logged By: P.P. Drilling Contractor: Rubino Engineering, Inc.

Sample Types: Auger Cutting, Split-Spoon, Rock Core, Pressuremeter, Shelby Tube, Hand Auger, No Recovery

Latitude: 41.6709902 Longitude: -88.8591194 Drill Rig: Geoprobe 7822DT

The stratification lines represent approximate boundaries. The transition may be gradual. ***Please reference the geotechnical report text for specific groundwater / dewatering recommendations.

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	DATE - 1/5/2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS 3
 STRUCTURE NO. 019-3077

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	05-00210-00-BR	DEKALB	36	28
CONTRACT NO.			87662	
ILLINOIS		FED. AID PROJECT		

SHEET 5-16 OF 5-17 SHEETS

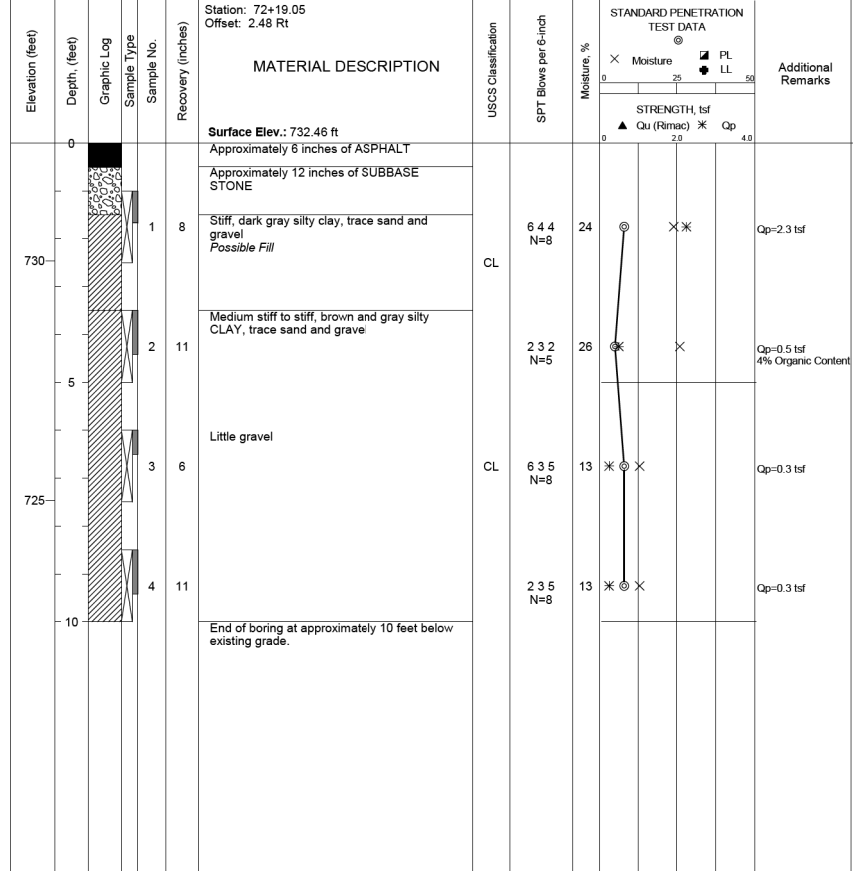


Rubino Engineering, Inc.
425 Shepard Drive
Elgin, IL 60123
Telephone: 847-931-1555
Fax: 847-931-1560

LOG OF BORING SGB-06

Sheet 1 of 1

Rubino Job No.: G20.077	Drilling Method: 3 1/4 Hollow Stem Auger	WATER LEVELS***
Project: Suydam Road Bridge Replacement	Sampling Method: Split Spoon	While Drilling N/A
Location: Suydam Road over Indian Creek	Hammer Type: Automatic	Upon Completion N/A
City, State: DeKalb County, Illinois	Boring Location: EB lane of Suydam Rd, W of bridge	Delay N/A
Client: Ciorba Group, Inc.	5 feet N from edge of pavement	



Completion Depth: 10.0 ft	Sample Types: <input checked="" type="checkbox"/> Auger Cutting	<input checked="" type="checkbox"/> Pressuremeter	Latitude: 41.6706751
Date Boring Started: 8/31/20	<input checked="" type="checkbox"/> Split-Spoon	<input checked="" type="checkbox"/> Shelby Tube	Longitude: -88.8611740
Date Boring Completed: 8/31/20	<input checked="" type="checkbox"/> Rock Core	<input type="checkbox"/> Hand Auger	Drill Rig: Geoprobe 7822DT
Logged By: P.P.		<input type="checkbox"/> No Recovery	Remarks:
Drilling Contractor: Rubino Engineering, Inc.			

The stratification lines represent approximate boundaries. The transition may be gradual.
***Please reference the geotechnical report text for specific groundwater / dewatering recommendations.

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USER NAME = Structural
DESIGNED - KEC
DRAWN - SBA
CHECKED - BWS
DATE - 1/5/2021

REVISIONS
REVISED -
REVISED -
REVISED -
REVISED -

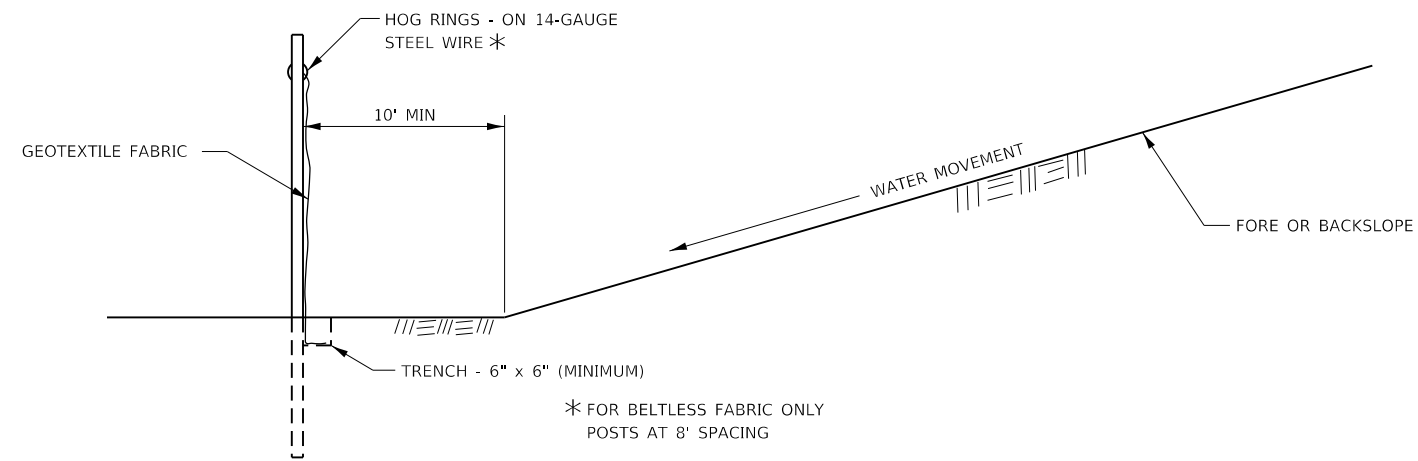
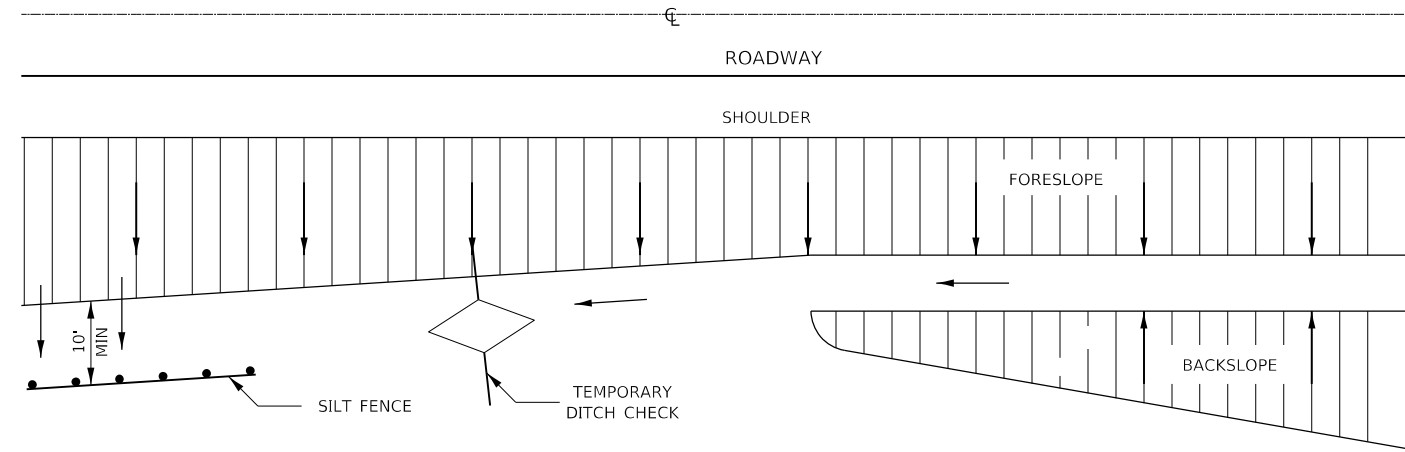
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PLOT DATE = 1/5/2021

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS 4
STRUCTURE NO. 019-3077

SHEET 5-17 OF 5-17 SHEETS

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.			87662	
ILLINOIS		FED. AID PROJECT		

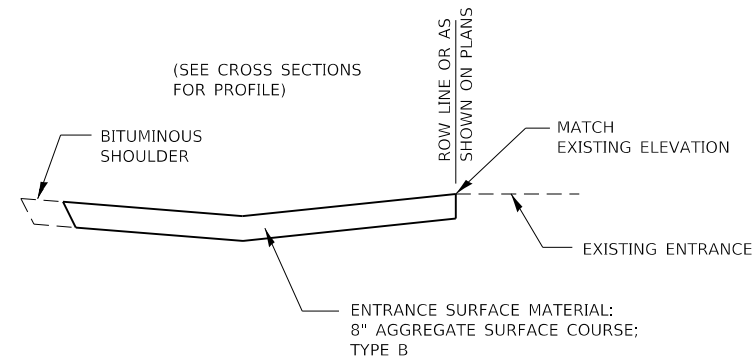
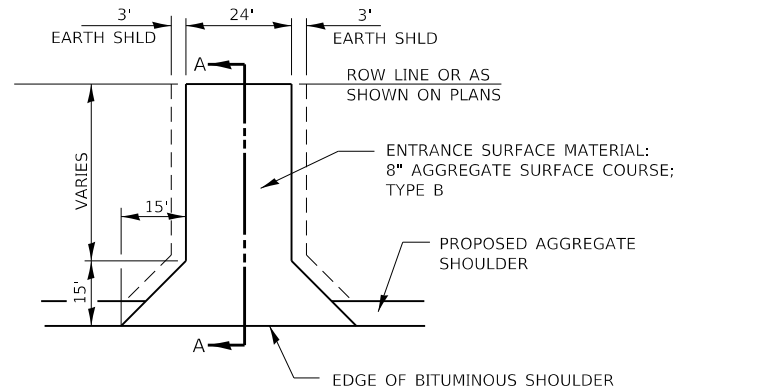


EROSION CONTROL DETAILS
FOR SILT FENCE

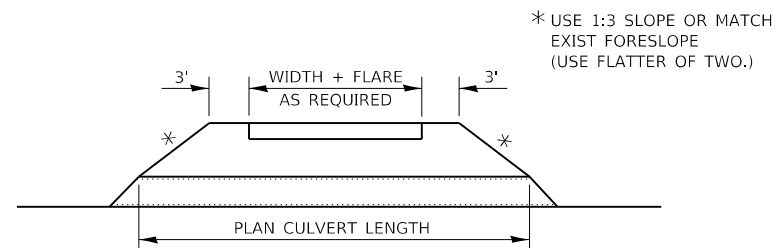
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	DRAWN - TJC	REVISED -
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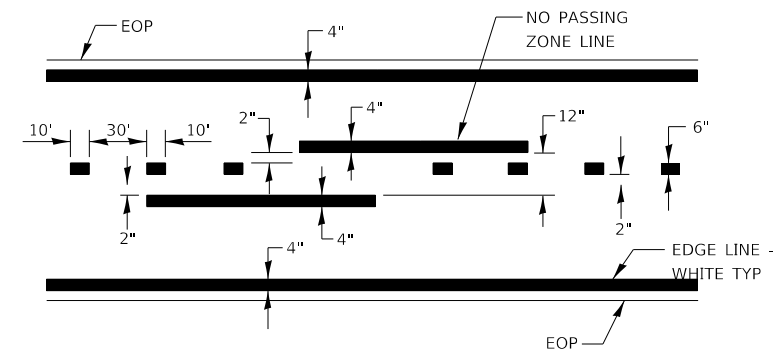
FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	05-00210-00-BR	DEKALB	36	30
CONTRACT NO.			87662	
ILLINOIS FED. AID PROJECT				



SECTION A-A



FIELD ENTRANCE DETAIL



CENTERLINE & NO PASSING ZONE LINES - YELLOW

PAVEMENT MARKING

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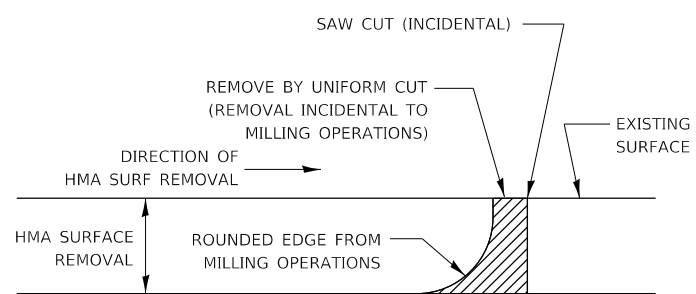
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PLOT DATE = 1/5/2021	DATE - 1/5/2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUYDAM ROAD (FAS 172) OVER INDIAN CREEK
 FIELD ENTRANCE DETAILS AND PAVEMENT MARKINGS**

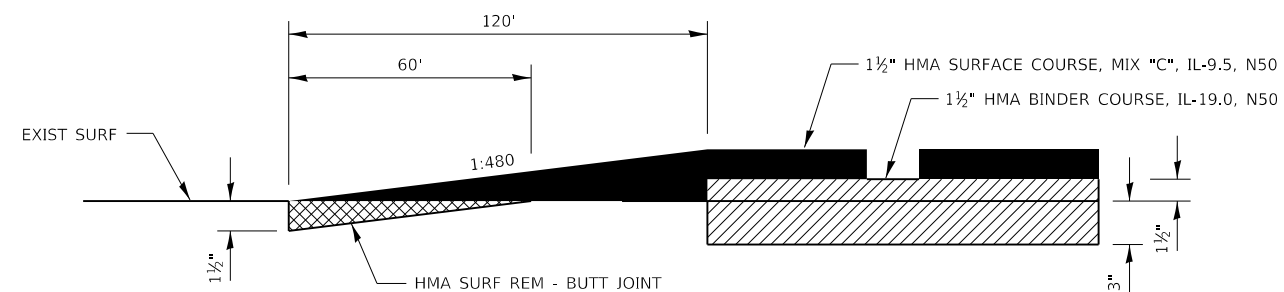
SCALE: N.T.S. SHEET 2 OF 4 SHEETS STA. TO STA.

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	05-00210-00-BR	DEKALB	36	31
CONTRACT NO.			87662	
ILLINOIS FED. AID PROJECT				



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

HMA DETAIL AT BUTT JOINTS

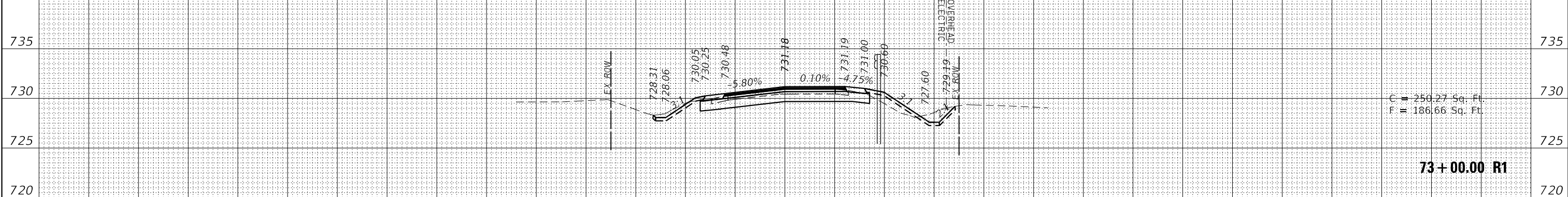


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	DRAWN - TJC	REVISED -
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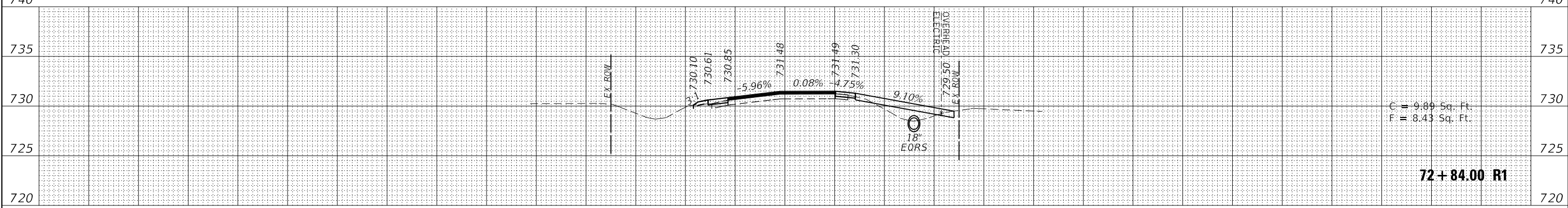
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172	05-00210-00-BR	DEKALB	36	32
CONTRACT NO.			87662	
ILLINOIS		FED. AID PROJECT		

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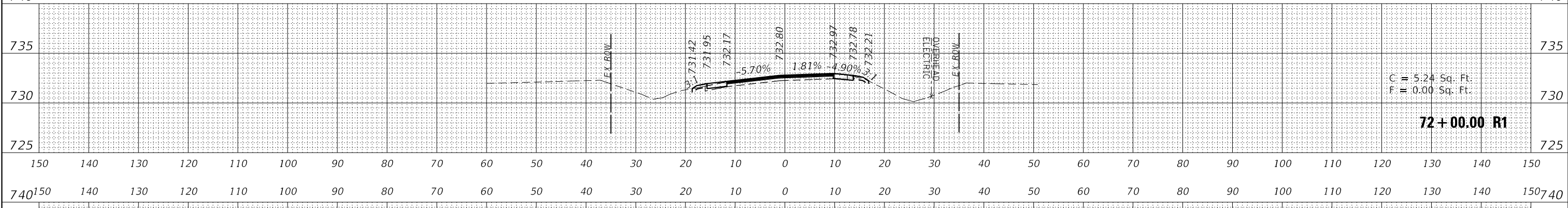
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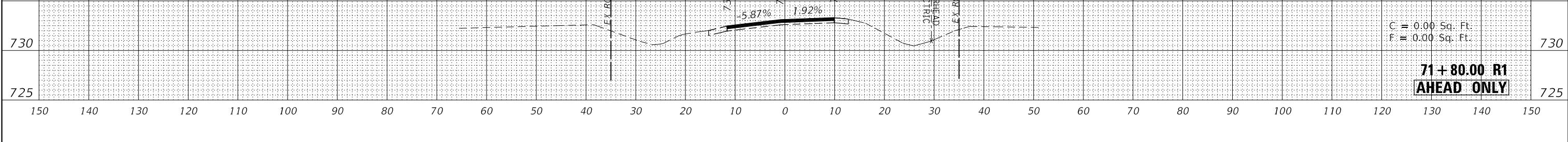
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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

740 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 740



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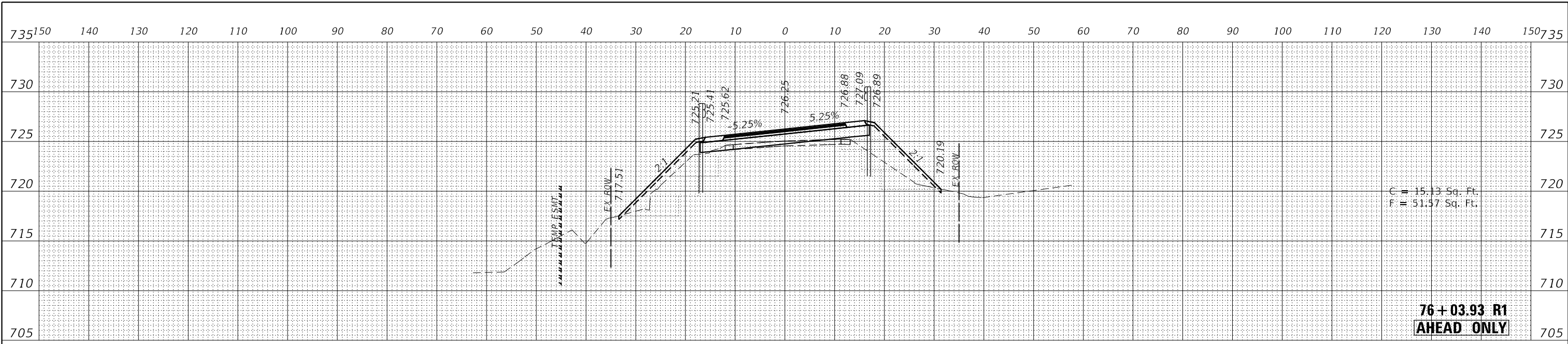
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 DRAWN - TJC
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 PLOT DATE = 1/5/2021

REVISED -
 REVISED -
 REVISED -
 REVISED -

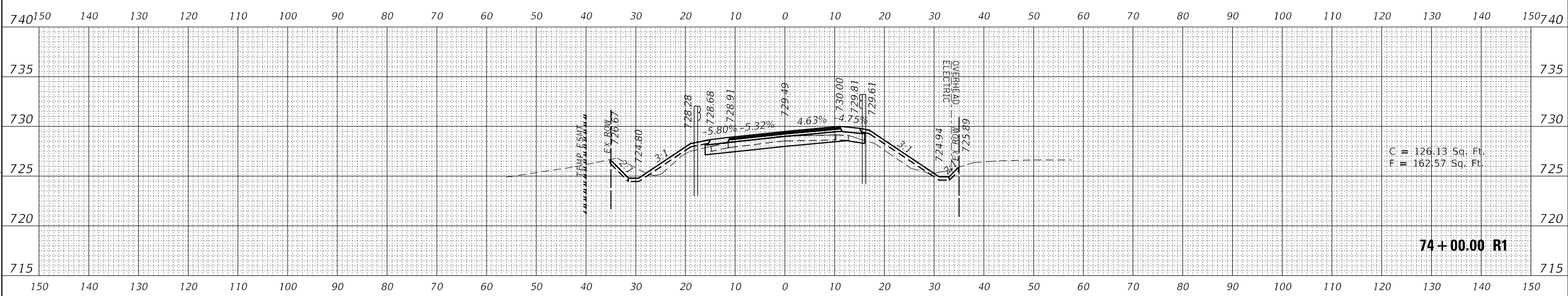
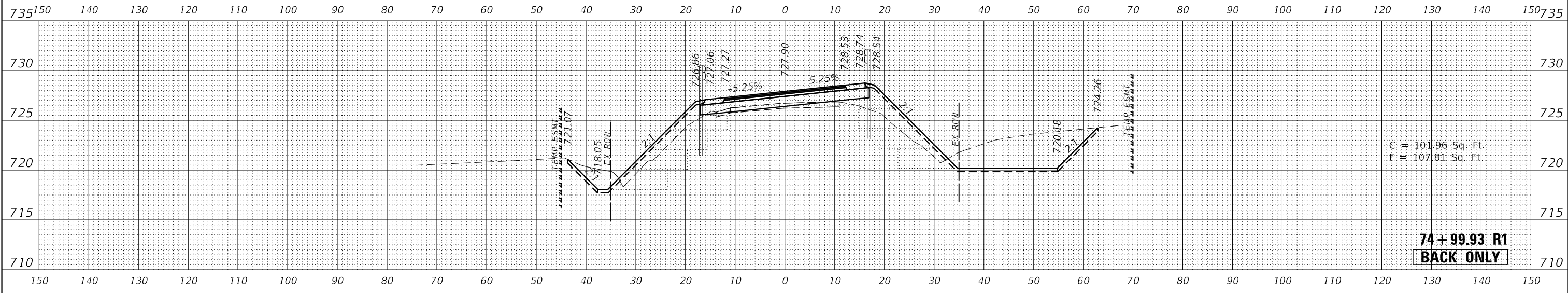
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUYDAM ROAD (FAS 172) OVER INDIAN CREEK
 CROSS SECTION DETAILS
 SCALE: 1" = 10'
 SHEET 1 OF 1 SHEETS
 STA. 71+80.00 TO STA. 73+00.00

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	05-00210-00-BR	DEKALB	36	33
CONTRACT NO.			87662	
ILLINOIS		FED. AID PROJECT		



BRIDGE OMISSION STA 74+99.93 TO STA 76+03.93



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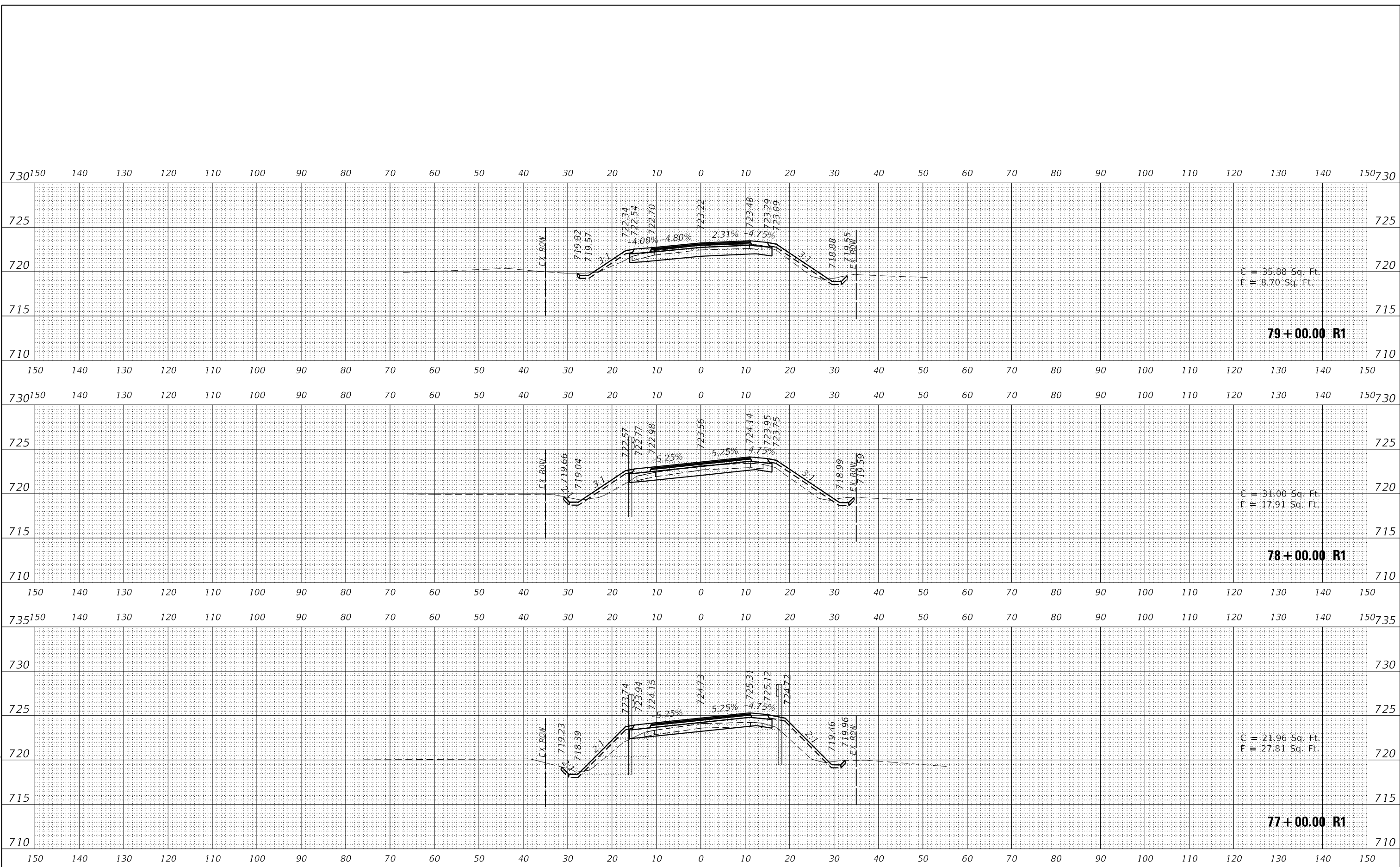


USER NAME = Roadway	DESIGNED - TBH	REVISED -
	DRAWN - TJC	REVISED -
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PLOT DATE = 1/5/2021	DATE - 1/5/2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUYDAM ROAD (FAS 172) OVER INDIAN CREEK
 CROSS SECTION DETAILS**
 SCALE: 1" = 10' SHEET 2 OF 4 SHEETS STA. 74+00.00 TO STA. 76+04.00

FAS RTE. 172	SECTION 05-00210-00-BR	COUNTY DEKALB	TOTAL SHEETS 36	SHEET NO. 34
CONTRACT NO. 87662			ILLINOIS FED. AID PROJECT	



C = 35.88 Sq. Ft.
F = 8.70 Sq. Ft.

79+00.00 R1

C = 31.00 Sq. Ft.
F = 17.91 Sq. Ft.

78+00.00 R1

C = 21.96 Sq. Ft.
F = 27.81 Sq. Ft.

77+00.00 R1

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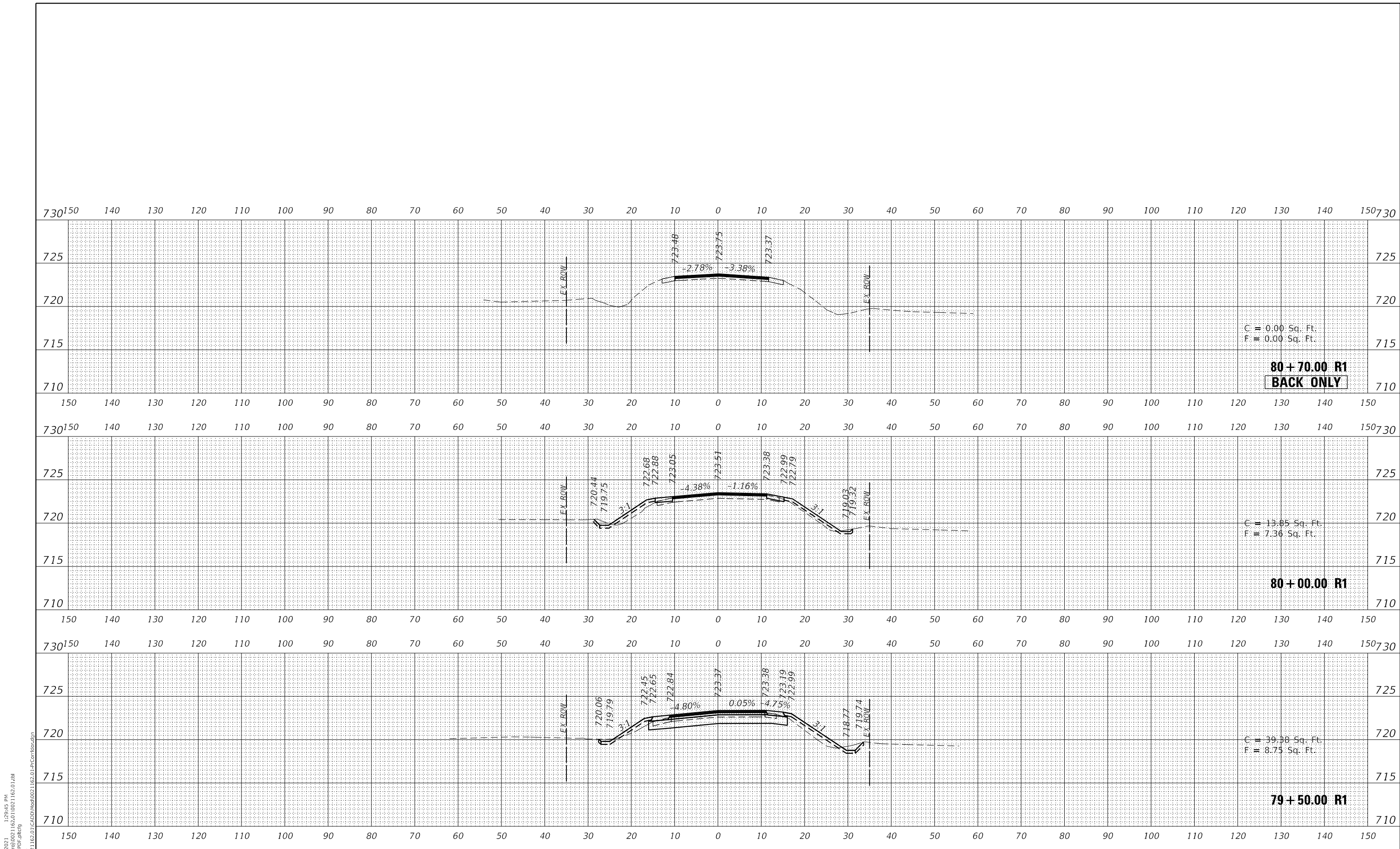
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	DRAWN - TJC	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - DD	REVISED -
PLOT DATE = 1/5/2021	DATE - 1/5/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUYDAM ROAD (FAS 172) OVER INDIAN CREEK
CROSS SECTION DETAILS**

SCALE: 1" = 10' SHEET 3 OF 4 SHEETS STA. 77+00.00 TO STA. 79+00.00

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	05-00210-00-BR	DEKALB	36	35
CONTRACT NO.			87662	
ILLINOIS FED. AID PROJECT				



DATE PLOTTED = 1/5/2021 1:29:45 PM
 PEN TABLE = R:\Proj\0021162\010021162.dwg
 PLOT CONFIG = CG-PPF.plt
 MODEL = S:\DRIVER\162\162.dwg
 FILE NAME = R:\Proj\0021162\010021162.dwg



USER NAME = Roadway	DESIGNED - TBH	REVISED -
	DRAWN - TJC	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - DD	REVISED -
PLOT DATE = 1/5/2021	DATE - 1/5/2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUYDAM ROAD (FAS 172) OVER INDIAN CREEK
 CROSS SECTION DETAILS**

SCALE: 1" = 10' SHEET 4 OF 4 SHEETS STA. 79+50.00 TO STA. 80+70.00

FAS RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
172	05-00210-00-BR	DEKALB	36	36
CONTRACT NO.			87662	
ILLINOIS FED. AID PROJECT				