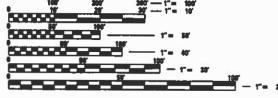
### 06-16-2023 LETTING ITEM 100 **STATE OF ILLINOIS INDEX OF SHEETS DEPARTMENT OF TRANSPORTATION** COVER SHEET 1 GENERAL NOTES AND COMMITMENTS 2 ALIGNMENT, TIES, AND BENCHMARKS **PLANS FOR PROPOSED** 4-5 SUMMARY OF QUANTITIES SCHEOULE OF QUANTITIES 6 TYPICAL SECTIONS PLAN & PROFILE 8 SUPERSTRUCTURE REPLACEMENT 9-21 STRUCTURE PLANS LOCAL BRIDGE FORMULA PROGRAM TR 37B (3200 N. RD.) OVER UPPER SALT CREEK **STANDARDS (IN PROPOSAL)** LUDLOW TOWNSHIP 80-10000 STANOARO SYMBOLS, ABBREVIATIONS AND PATTERNS 001001-02 AREAS OF REINFORCEMENT BARS SECTION 22-14120-00-BR 001006 DECIMAL OF AN INCH AND OF A FOOT 515001-04 NAME PLATE FOR BRIDGES **PROJECT BKLI(479)** 701901-08 TRAFFIC CONTROL OEVICES 72\$001-01 OBJECT AND TERMINAL MARKERS CHAMPAIGN COUNTY TYPICAL APPLICATION OF TRAFFIC CONTROL OEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS 8LR 21-9 C-95-006-24 **R9E** 3rd P.M ONCER SECTION 22-14120-00-8R BEGINS \$TA. 9+68.00 ENDS STA. 10+32.00 UTILITY COMPANIES: EXIST. SN 010-4023 EASTERN ILLINI ELECTRIC COOP.



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

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

## PROJECT MANAGER: MARK R. LEIGHTON, P.E., P.L.S.

### CONTRACT NO. 91634

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WORK CONSISTS OF THE REMOVAL OF EXISTING PRECAST CHANNEL BEAMS AND REPLACEMENT WITH PPC OECK BEAMS, SUBSTRUCTURE REHABILITATION, AND THE NECESSARY BACKFILL AND INCIDENTAL APPROACH WORK FOR S.N. 010-4023 AT STA. 10+00.00.

(0.013 MI)

(0.013 MI)

35

Rantoul

POP. 12.618

TOTAL LENGTH - 64.00

NET LENGTH = 64.00

LOCATION MAP

FEET

FEET

MININIA CONTRACTOR

062-046930

W W

LICENSED

PROFESSIONAL

ENGINEER

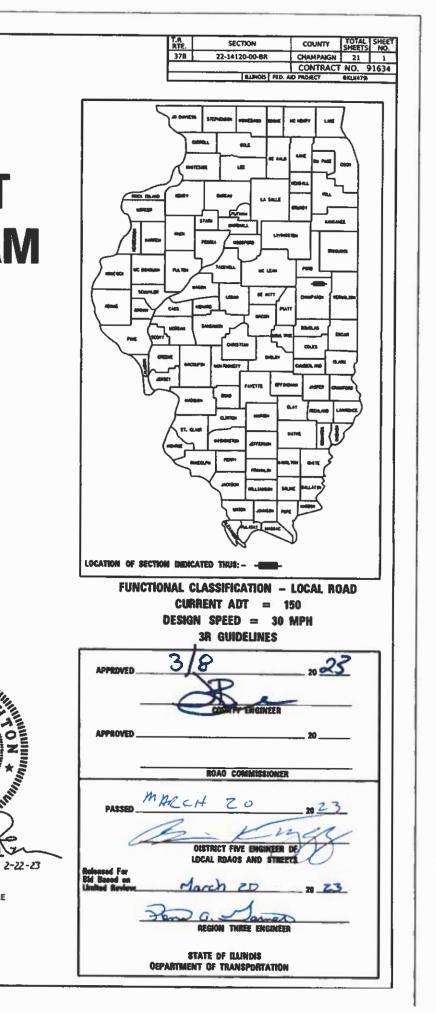
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CONTACT: BRAD SMITH VILLAGE OF RANTOUL 333 SOUTH TANNER RANTOUL, IL 61866 PHONE: (217)-892-6526 CONTACT: PUBLIC WORKS DEPARTMENT MEDIACOM 211 E SANGAMON AVE

211 E SANGAMON AVE RANTOUL, IL 61866 PHONE: (845)-768-8074 CONTACT: DANIEL SALEE

PHONE: (217)-379-2131 EXT 173

330 W. OTTAWA PO 80X 96 PAXTON. IL 60957



# **GENERAL NOTES**

- 1. EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- 2. ELEVATIONS USED THROUGHOUT THIS PLAN SET ARE REFLECTED FROM THE EXISTING BRIDGE PLANS FOR S.N. 010-4023.
- 3. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF CONTRACT ITEMS INVOLVED.
- 4. THE FOLLOWING APPLICATION RATES HAVE BEEN USED IN CALCULATING PLAN QUANTITIES: TEMPORARY EROSION CONTROL SEEDING: 100 LB/ACRE AGGREGATE BASE COURSE: 2.05 TONS/CU YD AGGREGATE SURFACE COURSE: 2.05 TONS/CU YD RIPRAP: 1.75 TONS/CU YD
- 5. THE CONTRACTOR'S OPERATIONS AND TEMPORARY STORAGE ACTIVITIES SHALL BE LIMITED TO THE WORK AREA AND/OR CONSTRUCTION LIMITS. ANY ADDITIONAL STAGING AREAS ADJACENT TO THE PROJECT AREA ARE SUBJECT TO PRIOR APPROVAL BY THE ENGINEER AND MUST NOT CONFLICT WITH EXISTING SIDE ROADS, INTERSECTIONS, DRIVEWAYS, OR DRAINAGE. ALL OPERATIONS SHALL BE SUBJECT TO REGULATORY REQUIREMENTS PERMITTED FOR THIS PROJECT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR COMPLIANCE WITH THE ABOVE REQUIREMENTS.
- 6. DISTURBED AREAS SHALL RECEIVE PERMANENT STABILIZATION WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION ACTIVITIES. TEMPORARY STABILIZATION OF WORK AREAS IS REQUIRED FOR ALL AREAS REMAINING UNDISTURBED FOR 14 DAYS, UNLESS WORK RESUMES PRIOR TO 21 DAYS. TEMPORARY STABILIZATION MUST BE APPROVED BY THE ENGINEER.
- 7. THE CONTRACTOR SHALL RELOCATE OR REMOVE AND REPLACE ALL SIGNS THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS AND TEMPORARILY RESET ALL SUCH SIGNS DURING ALL STAGES OF CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE ENGINEER WILL DETERMINE THE PERMANENT LOCATION FOR EXISTING SIGNS TO BE RE-ERECTED.
- 8. CONTRACTOR SHALL FOLLOW CONSTRUCTION REQUIREMENTS OF SECTION 611 WHEN EXISTING FIELD TILE IS ENCOUNTERED. ALL FIELD TILES ENCOUNTERED SHALL BE CAREFULLY PRESERVED, REPAIRED AND CONNECTED TO THE PROPOSED DRAINAGE STRUCTURES, SEWERS OR DITCHES AS DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE VARIOUS DRAINAGE ITEMS OR AS DIRECTED BY THE ENGINEER.
- 9. THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN. ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.
- 10. EMBANKMENTS ON HILLSIDES OR SLOPES SHALL BE CONSTRUCTED ACCORDING TO ARTICLE 205.03.
- 11. CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES PRIOR TO STARTING ANY OTHER CONSTRUCTION WORK AT SITE.
- 12. CONTRACTOR SHALL VERIFY THE LENGTH OF REQUIRED PIPE CULVERTS AND PIPE DRAINS PRIOR TO ORDERING.
- 13. WHERE PERMANENT SURVEY MARKERS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE DISTURBED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THE LOCATION.

# **GENERAL NOTES**

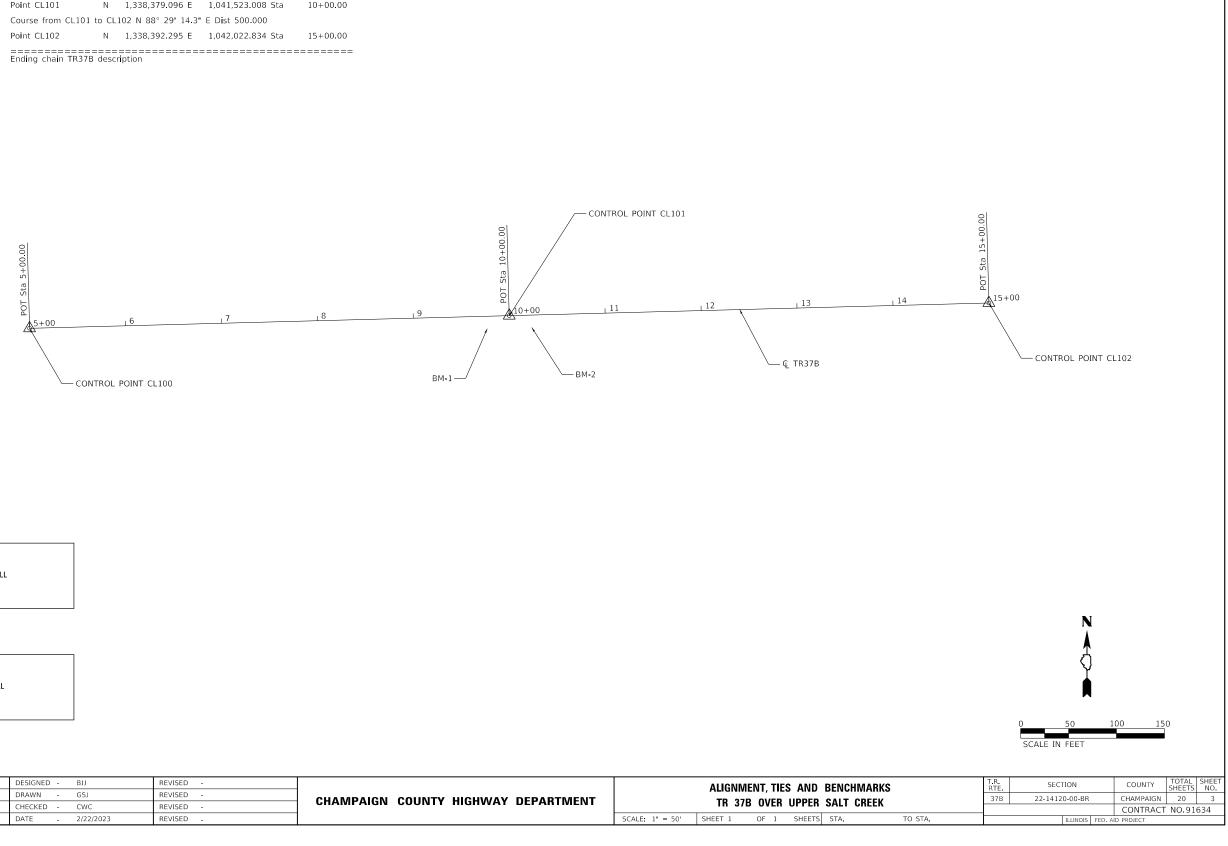
- 14. THE CONTRACTOR SHALL USE CARE IN ALL REMOVAL ACTIVITIES NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
- 15. A UNIFORMLY STRAIGHT SAW CUT SHALL BE MADE AT LOCATIONS WHERE PROPOSED CONTROLLED LOW-STRENGTH MATERIAL LIMITS MEET THE EXISTING OIL & CHIP SURFACES. THE SAW CUT SHALL BE MADE FULL DEPTH THROUGH THE EXISTING SURFACE. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT ITEMS INVOLVED AND NO EXTRA COMPENSATION WILL BE ALLOWED.

## COMMITMENTS

1. THERE ARE NO COMMITMENTS ON THIS PROJECT.

design firm	white	USER NAME = bjohnson	DESIGNED -	BJJ	REVISED -			GENERAL NOTES AND COMMI	IMENTS	T.R. BTE	SECTION	COUNTY TOTAL SHEET
no. 184001036 Whks			DRAWN -	GSJ	REVISED -	CHAMPAIGN COUNTY HIGHWAY DEPARTMENT	TR 37B OVER UPPER SALT CREEK			37B	22-14120-00-BR	CHAMPAIGN 20 2
		PLOT SCALE = 1200.0000 / ft	CHECKED -	CWC	REVISED -	CHAWFAIGN COUNTY HIGHWAY DEFARTMENT	IN J/D UVER UPPER JALI GREEN				CONTRACT NO.91634	
	ngineers + planners + land surveyors	PLOT DATE = 2/22/2023	DATE -	2/22/2023	REVISED -		SCALE: 1" = 50'	SHEET 1 OF 1 SHEETS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT

Beginning chain Tf	R37B d	escription		
Point CL100	Ν	1,338,365.897 E	1,041,023.182 Sta	5+00.00
Course from CL100	) to CL	101 N 88° 29' 14.3"	E Dist 500.000	
Point CL101	Ν	1,338,379.096 E	1,041,523.008 Sta	10+00.00
Course from CL10	1 to CL	102 N 88° 29' 14.3"	E Dist 500.000	
Point CL102	Ν	1,338,392.295 E	1,042,022.834 Sta	15+00.00
Ending chain TR37	B desc	ription		=======



BM 1 STA 9+76.75, 13.00' RT TOP OF CONCRETE WEST ABUTMENT WINGWALL ELEVATION = 98.08

BM 2 STA 10+23.25, 13.00' RT TOP OF CONCRETE EAST ABUTMENT WINGWALL ELEVATION = 98.46

efault C:\S	design firm no. 184001036	white	USER NAME = bjohnson	DESIGNED -	BJJ	REVISED -			ALIGNMI	ENT TIE	S AND B
-: De	110. 164001030	whks		DRAWN -	GSJ	REVISED -	CHAMPAIGN COUNTY HIGHWAY DEPARTMENT				
HILE N			PLOT SCALE = 1200.0000 ' / ft	CHECKED -	CWC	REVISED -	CHAMFAIGN COONTE HIGHWAT DEFARTMENT		IK 3/E	3 OVER	UPPER S
	engineers	engineers + planners + land surveyors	PLOT DATE = 2/22/2023	DATE -	2/22/2023	REVISED -		SCALE: 1" = 50'	SHEET 1	OF 1	SHEETS S

- BJJ	REVISED -	1	CUMAN	IARY OF QUANTITIES	T.R. SECTION COUNTY
	ALTY ITEMS				
51500100	NAME PLATES	EACH	1	1	
50900305	STEEL RAILING, TYPE T1	FOOT	96	96	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1060	1060	
			1230	0621	
50400205	PRECAST PRESTRESSED CONCRETE DECK BEAMS (11" DEPTH)	SQ FT	1238	1238	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	3.1	3.1	
50300225	CONCRETE STRUCTURES	CU YD	8.6	8.6	
50200100	STRUCTURE EXCAVATION	CU YD	18.6	18.6	
50102400	CONCRETE REMOVAL	CU YD	0.2	0.2	
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1	1	
35101400	AGGREGATE BASE COURSE, TYPE B	TON	18	18	
28200200	FILTER FABRIC	SQ YD	53	53	
28100107	STONE RIPRAP, CLASS A4	SQ YD	53	53	
20300100	CHANNEL EXCAVATION	CU YD	8	8	
20200100	EARTH EXCAVATION	CU YD	8	8	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0013 S.N. 010-4023	
				BRIDGE	

HITE WANE: Contraction of the second		USER NAME = bjohnson	DESIGNED - BJJ	REVISED -		SUMMARY OF QUANTITIES	T R BTF	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
	184001036 <b>Whks</b>		DRAWN - GSJ	REVISED -	CHAMPAIGN COUNTY HIGHWAY DEPARTMENT		37B	22-14120-00-BR	CHAMPAIGN	20 4
		PLOT SCALE = 1200.0.0000 '." / ft.	CHECKED - CWC	REVISED -		TR 37B OVER UPPER SALT CREEK			CONTRACT	F NO.91634
	engineers + planners + land surveyors	PLOT DATE = 2/22/2023	DATE - 2/22/2023	REVISED -		SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. TO STA.		ILLINOIS FED. /	AID PROJECT	

	DRAWN -	GSJ	REVISED -	CHAMPAIGN COUNTY HIGHWAY DEPARTMENT			OVER UPPER SALT CREEK	378		CHAMPAIGN 20
ER NAME = bjohnson	DESIGNED -	BIJ	REVISED -			CIIMI	MARY OF QUANTITIES	T.R. RTE	SECTION	COUNTY TOTAL S
		* SPECIA	LTY ITEMS							
	*	Z0010501	CLEANING AND PAINTING STEEL BRIDO	GE NO. 1	L SUM	1	1			
		X7011800	TRAFFIC CONTROL AND PROTECTION,	STANDARD BLR 21	L SUM	1	1			
		X6110073	EXISTING FIELD TILE REMOVAL		FOOT	40	40			
	*	1000001	CONTRINUCINT AND DISPOSAL OF NOT	VERD FRINT CLEANING RESIDUES INC. 1			L			
	*	X5060601		I-LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1			
		X2501000	SEEDING, CLASS 2 (SPECIAL)		ACRE	0.25	0.25			
		V2501005				0.05	0.05			
	*	72501000	TERMINAL MARKER - DIRECT APPLIED		EACH	4	4			
		67100100	MOBILIZATION		L SUM	1	1			
		60103700	PIPE DRAINS, CORRUGATED STEEL 18'		FOOT	20	20			
		60103400	PIPE DRAINS, CORRUGATED STEEL 10		FOOT	20	20			
		60100060	CONCRETE HEADWALLS FOR PIPE DRA	INS	EACH	2	2			
		59300100	CONTROLLED LOW-STRENGTH MATERI	AL	CU YD	39.6	39.6			
							5.010 4025			
		CODE NO.		ITEM	UNIT	TOTAL QUANTITY	0013 S.N. 010-4023			
		6005				TOTAL	BRIDGE			
							CONSTR. CODE			

the S desi		USER NAME = bjohnson	DESIGNED -	BJJ	REVISED -		SUMMARY OF QUANTITIES	T.R. RTE	SECTION	COUNTY TOTAL SHEET SHEETS NO.
FILE NAME	<sup>34001036</sup> Whks		DRAWN -	GSJ	REVISED -	CHAMPAIGN COUNTY HIGHWAY DEPARTMENT	TR 37B OVER UPPER SALT CREEK	37B	22-14120-00-BR	CHAMPAIGN 20 5
	engineers + planeers + bod surveyers	PLOT SCALE = 1200:0.0000 '." / ft.	CHECKED -	CWC	REVISED -		IN 37D OVEN OFFEN SALL GNEEK			CONTRACT NO.91634
	<ul> <li>engineers + praimers + tand surveyors</li> </ul>	PLOT DATE = 2/22/2023	DATE -	2/22/2023	REVISED -		SCALE: 1" = 50' SHEET 2 OF 2 SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT

	20200100	20300100	FOR INFORMATION	ONLY	
			EXCAVATION TO BE		EARTHWORK
LOCATION	EARTH	CHANNEL	USED IN EMBANKMENT	EMBANKMENT	BALANCE
LOCATION	EXCAVATION	EXCAVATION	(ADJUSTED FOR SHRINKAGE)	(FILL)	WASTE(+) AND
			(EXC. x 0.75)		SHORTAGE (-)
	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.
STA. 9+68.00 TO STA. 9+75.50	4		3	5	-2
STA. 9+75.50 TO STA. 10+24.50		8	* 3		3
STA. 10+24.50 TO STA. 10+32.00	4		3	4	-1
TOTAL	8	8	9	9	0

EARTH EXCAVATION SHRINKAGE FACTOR = 25%

\*CHANNEL EXCAVATION USED IN EMBANKMENT= 50%

### 35101400 AGGREGATE BASE COURSE, TYPE B

TR 371	В					TON
CL	9+68.00	ТО	CL	9+76.17		9
CL	10+23.8	ТО	CL	10+32.00		9
					TOTAL	18

## 60103700 PIPE DRAINS, CORRUGATED STEEL 18"

TR 37B		FOOT
	TOTAL	20

### 67100100 MOBILIZATION

TR 37B		L SUM
	τοται	1

60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	

OUTUUUOU CUNCRETE READWALLS FOR PIPE DRAINS							
TR 37B			EACH				
		TOTAL	2				

X2501000 SEEDING, CLASS 2 (SPECIAL)	X2501000	SEEDING, CLASS	2 (SPECIAL)
-------------------------------------	----------	----------------	-------------

TR 371	З					ACRE
LT	9+68.00	ТО	LT	9+76.17		0.03
LT	10+23.8	ТО	LT	10+32.00		0.03
RT	9+68.00	ТО	RT	9+76.17		0.03
RT	10+23.8	ТО	RT	10+32.00		0.03
* TOTAL PER MIN. DEGREE OF ACCURACY					TOTAL	0.25

## 60103400 PIPE DRAINS, CORRUGATED STEEL 10"

TR 37B		FOOT
	TOTAL	20

# X6110073 EXISTING FIELD TILE REMOVAL

TR 37B

	FOOT
TOTAL	40

40

the sign		USER NAME = bjohnson	DESIGNED - BJJ	REVISED -		SCHEDULE OF QUANTITIES	T.R. SECT	TON COUNTY TOTAL SHEET NO.
AMA	WINKS		DRAWN - GSJ	REVISED -	CHAMPAIGN COUNTY HIGHWAY DEPARTMENT	TR 37B OVER UPPER SALT CREEK	37B 22-14120	0-00-BR CHAMPAIGN 20 6
E N		PLOT SCALE = 1200.0.0000 '' / ft.	CHECKED - CWC	REVISED -	CHAWFAIGN COONTY HIGHWAT DEFARTMENT	IR 3/B OVER OPPER SALI GREEK		CONTRACT NO.91634
EIN	engineers + planners + land surveyors	PLOT DATE = 2/22/2023	DATE - 2/22/2023	REVISED -		SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT

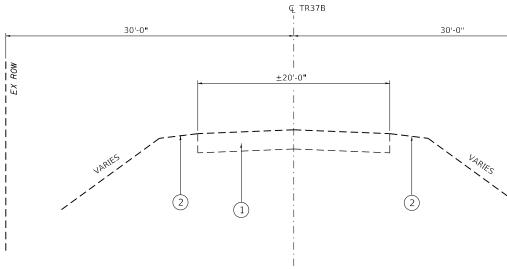
## X7011800 TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21

R 37B		L SUM	
	TOTAL	1	

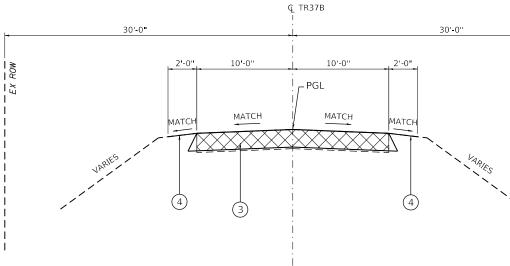
# **LEGEND**

- 1 EX OIL AND CHIP
- 2 EX EARTH SHOULDER
- (3) PR AGGREGATE BASE COURSE, TYP B (8")
- (4) PR EARTH SHOULDERS





EXISTING TYPICAL SECTION STA. 9+68.00 TO STA. 9+75.50 BRIDGE OMMISSION STA. 9+75.50 TO 10+24.50 STA. 10+24.50 TO STA. 10+32.00 (LOOKING EAST)



**PROPOSED TYPICAL SECTION** 

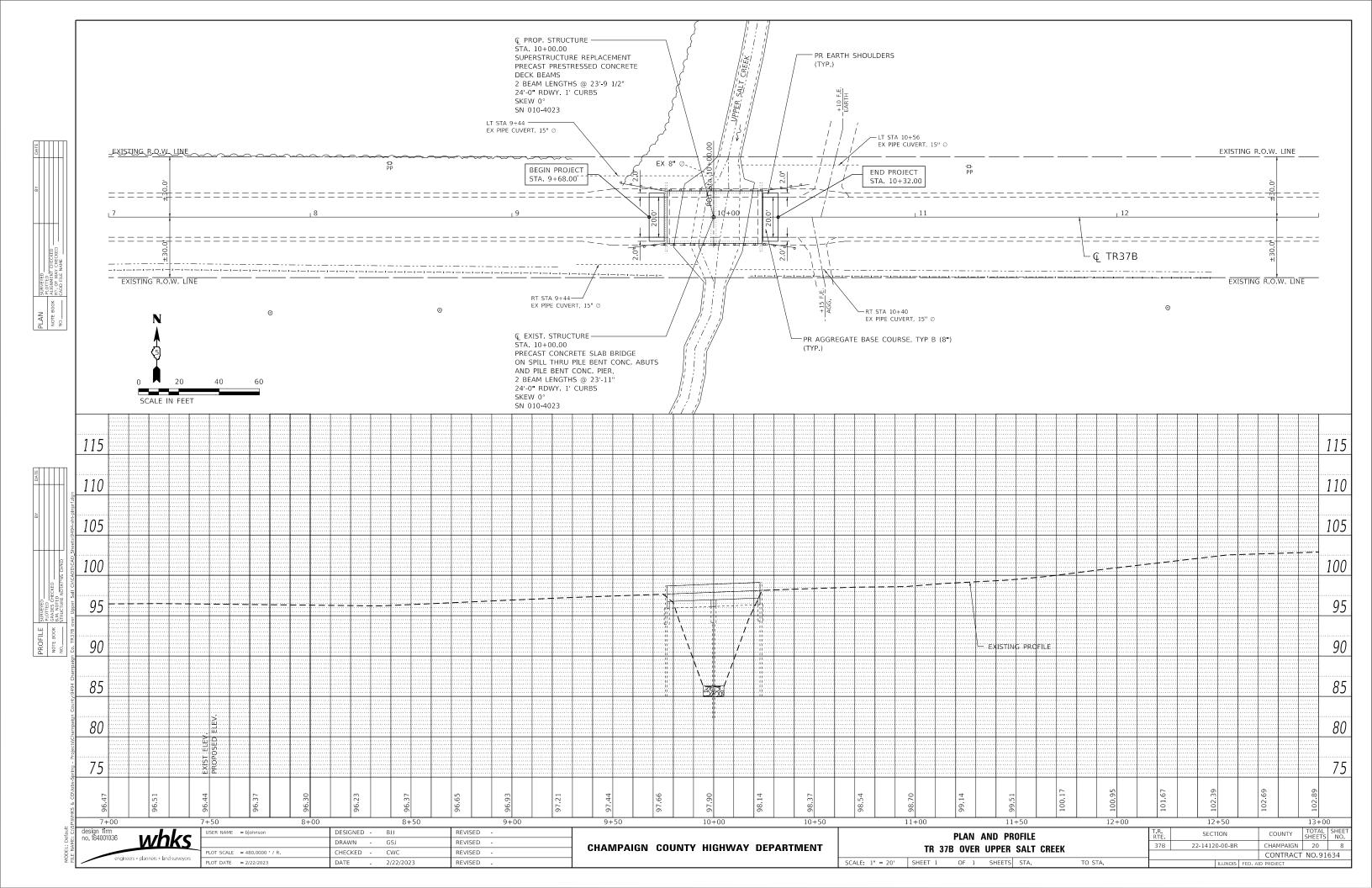
STA. 9+68.00 TO STA. 9+75.50 BRIDGE OMMISSION STA. 9+75.50 TO 10+24.50 STA. 10+24.50 TO STA. 10+32.00 (LOOKING EAST)

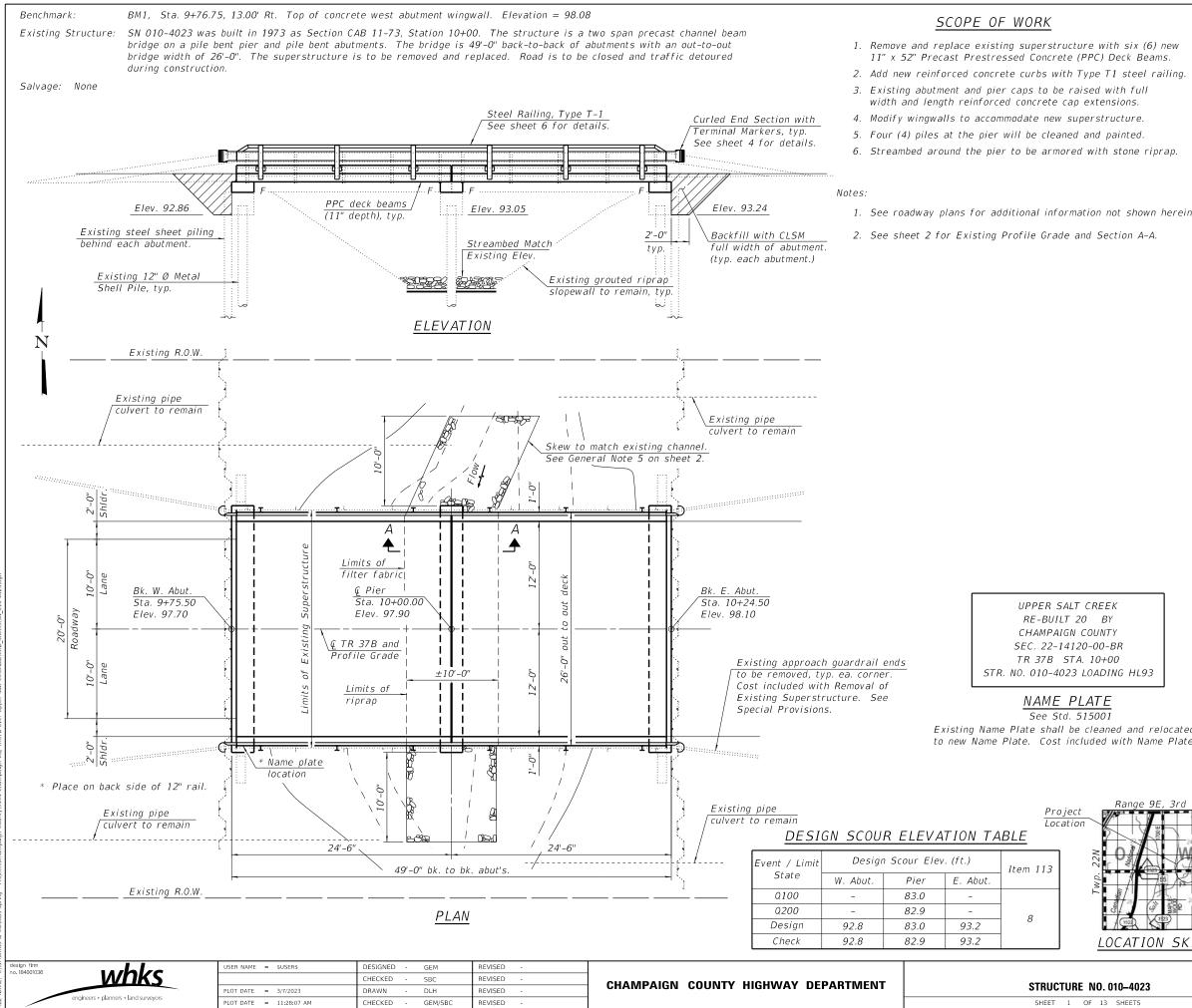
DEL: Default NAME: C:\}	design firm no. 184001036	whks	USER NAME = bjohnson PLOT SCALE = 120.0000 ' / ft.	DESIGNED - DRAWN - CHECKED -	BJJ GSJ CWC	REVISED - REVISED - REVISED -	CHAMPAIGN COUNTY HIGHWAY DEPARTMENT		TR 378	TYPICAI 3 Over 1	L SECTI UPPER	-
PILI	engine	eers + planners + land surveyors	PLOT DATE = 2/22/2023	DATE -	2/22/2023	REVISED -		SCALE: 1" = 10'	SHEET 1	OF 1	SHEETS	9

T.R. RTE. 37B	SECTION 22-14120-00-BR	COUNTY TOTAL SHEETS CHAMPAIGN 20 CONTRACT NO.916 3. ALP PROJECT	SHEET NO. 7 334

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# INDEX OF SHEETS

- General Plan and Elevation 1
- General Data

2.

- 11" x 52" PPC Deck Beam Details 3.
- Superstructure Details 4.-5.
- 6. Steel Railing, Type T-1
- 7. Substructure Details
- 8.-13. Existing Plans (for information only)

# DESIGN SPECIFICATIONS (New Const.)

2020 AASHTO LRFD Bridge Design Specifications 9th Edition

# LOADING HL-93 (New Const.)

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

# DESIGN STRESSES

FIELD UNITS (New Construction)

- f'c = 3,500 psi
- fy = 60,000 psi (Reinforcement)
- FIELD UNITS (Existing)
- $fc = 1,400 \ psi$
- fs = 20,000 psi (Reinforcement)

# PRECAST\_UNITS (New Construction)

- f'c =6,000 psi f'ci =5,000 psi
- $f'pu = 270,000 \text{ psi} (\frac{1}{2}'' \text{ low lax strands})$
- $f'pbt = 201,960 psi (\frac{1}{2}'' low lax strands$

# SEISMIC DATA (Exist Const.)

Seismic Performance Zone (SPZ) = 1 Design Spectral Acceleration at 1.0 sec. (Sp1) = 0.089g Design Spectral Acceleration at 1.0 sec. (Sps) = 0.158g Soil Site Class = C

EEK BY NTY D-BR +00 DING HL93 <u>E</u> D1 aned and relocated next d with Name Plates.	081-006565 081-006565 001-00	2/23/2023
Range 9E, 3rd P.M.	<u>GENERAL PLAN ANE</u> <u>TR 37B OVER UPPER</u> <u>SECTION 22-141</u> <u>CHAMPAIGN C</u> <u>STATION 104</u> <u>STRUCTURE NO.</u>	<u>SALT CREEK</u> 20-00-BR COUNTY -00.00
. 010–4023	37B 22-14120-00-BR	CHAMPAIGN 21 9 CONTRACT NO. 91634
3 SHEETS	ILLINOIS FED. AIC	) PROJECT

## GENERAL NOTES

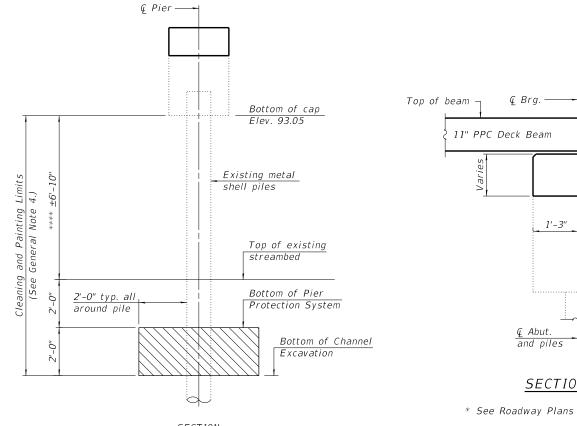
- 1. Reinforcement bars designated (E) shall be epoxy coated.
- 2. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- 3. Elevations shown herein have been taken from the existing plans and are subject to field verification and adjustment during construction.
- 4. Cleaning and painting of the existing metal shell piles shall be as specified in the special provision for Cleaning and Painting Existing Steel Structures except where otherwise noted herein. Piles shall be painted to the limits defined herein and according to the requirements of Paint System 2 - PS/EM/U or System 4 - PS/EM/AC. Surface preparation shall be accomplished by Commercial Grade Power Tool Cleaning according to the requirements of SSPC-SP15. The color of the final finish coat shall be Gray, Munsell No. 5B 7/1.

The bridge owner has the option to omit the top finish coat. If this is desired, the intermediate aluminum epoxy mastic coat shall no longer be a spot coat but a full coat.

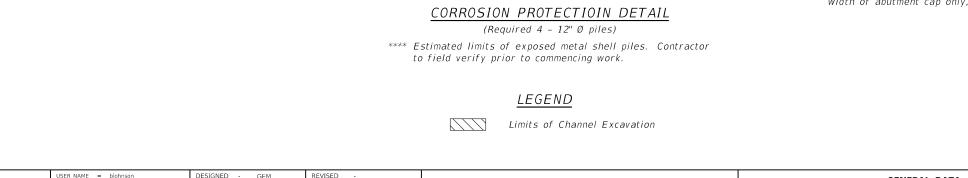
- 5. Layout of the Pier Protection System may be varied in the field to suit ground conditions as directed by the Engineer. Minimum width of riprap shall be 10'-0". Thickness of riprap and bedding shall be as detailed herein.
- 6. The Contractor shall be responsible for diverting the water flow from the construction area using a method meeting the approval of the Engineer. This shall not be paid for separately but shall be included in the cost of the Contract.

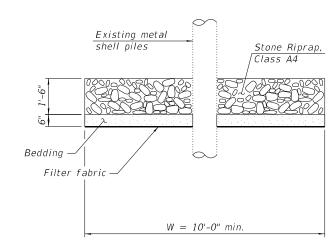
# TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Tot
Channel Excavation	Cu. Yd.	-	8	8
Stone Riprap, Class A4	Sq. Yd.	-	53	5.
Filter Fabric	Sq. Yd.	-	53	5.
Removal of Existing Superstructures	Each	1	-	1
Concrete Removal	Cu. Yd.	-	0.2	0.
Structure Excavation	Cu. Yd.	-	18.6	18
Concrete Structures	Cu. Yd.	-	8.6	8.
Concrete Superstructure	Cu. Yd.	3.1	-	3.
Precast Prestressed Concrete Deck Beams (11" Depth)	Sq. Ft.	1,238	-	1,2
Reinforcement Bars, Epoxy Coated	Pound	150	910	1,0
Steel Railing, Type T1	Foot	96	-	90
Name Plates	Each	1	-	1
Controlled Low-Strength Material	Cu. Yd.	-	39.6	39
Terminal Marker – Direct Applied	Each	4		4
Cleaning and Painting Steel Bridge No. 1	L. Sum	-	1	1
Containment and Disposal of Non-Lead Paint Cleaning Residues No. 1	L. Sum	-	1	1



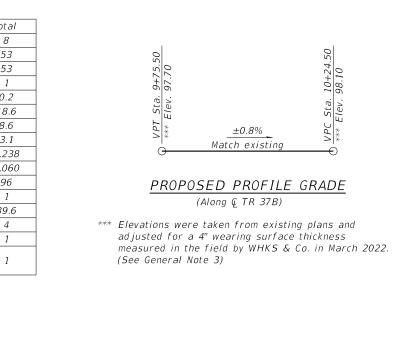
### <u>SECTION</u>

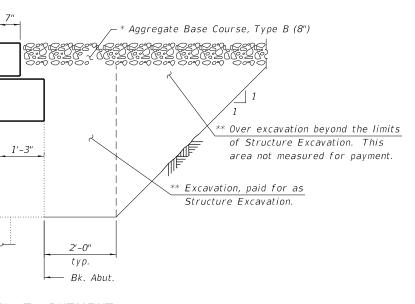




## SECTION A-A (Showing Pier Protection System)

whks	USER NAME = bjohnson	DESIGNED - GEM	REVISED -		GENERAL DATA	TR RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.							
VVLIAS		CHECKED - SBC	REVISED -	CHAMPAIGN COUNTY HIGHWAY DEPARTMENT STRUCTURE NO 010 4023	CHAMPAIGN COUNTY HIGHWAY DEPARTMENT STRUCTURE NO 010 4023 378 22-141		CHAMPAIGN COUNTY HIGHWAY DEPARTMENT STRUCTURE NO. 010–4023	CHAMPAIGN COUNTY HIGHWAY DEPARTMENT STRUCTURE NO 010-0023	CHAMPAIGN COUNTY HIGHWAY DEPARTMENT STRUCTURE NO 010_4023 37B 22-14120-00-BR	CHAMPAIGN COUNTY HIGHWAY DEPARTMENT STRUCTURE NO 010-4023	CHAMPAIGN COUNTY HIGHWAY DEPARTMENT STRUCTURE NO 010-4023 378 22-14120-00-BR CHAMPA				CHAMPAIGN 21 10
engineers + planners + land surveyors	PLOT DATE = 4/5/2023	DRAWN - DLH	REVISED -					CONTRACT NO. 91634							
engineers + plainters + land surveyors	PLOT DATE = 1:42:41 PM	CHECKED - GEM/SBC	REVISED -		SHEET 2 OF 13 SHEETS		ILLINOIS FED. A	AID PROJECT							

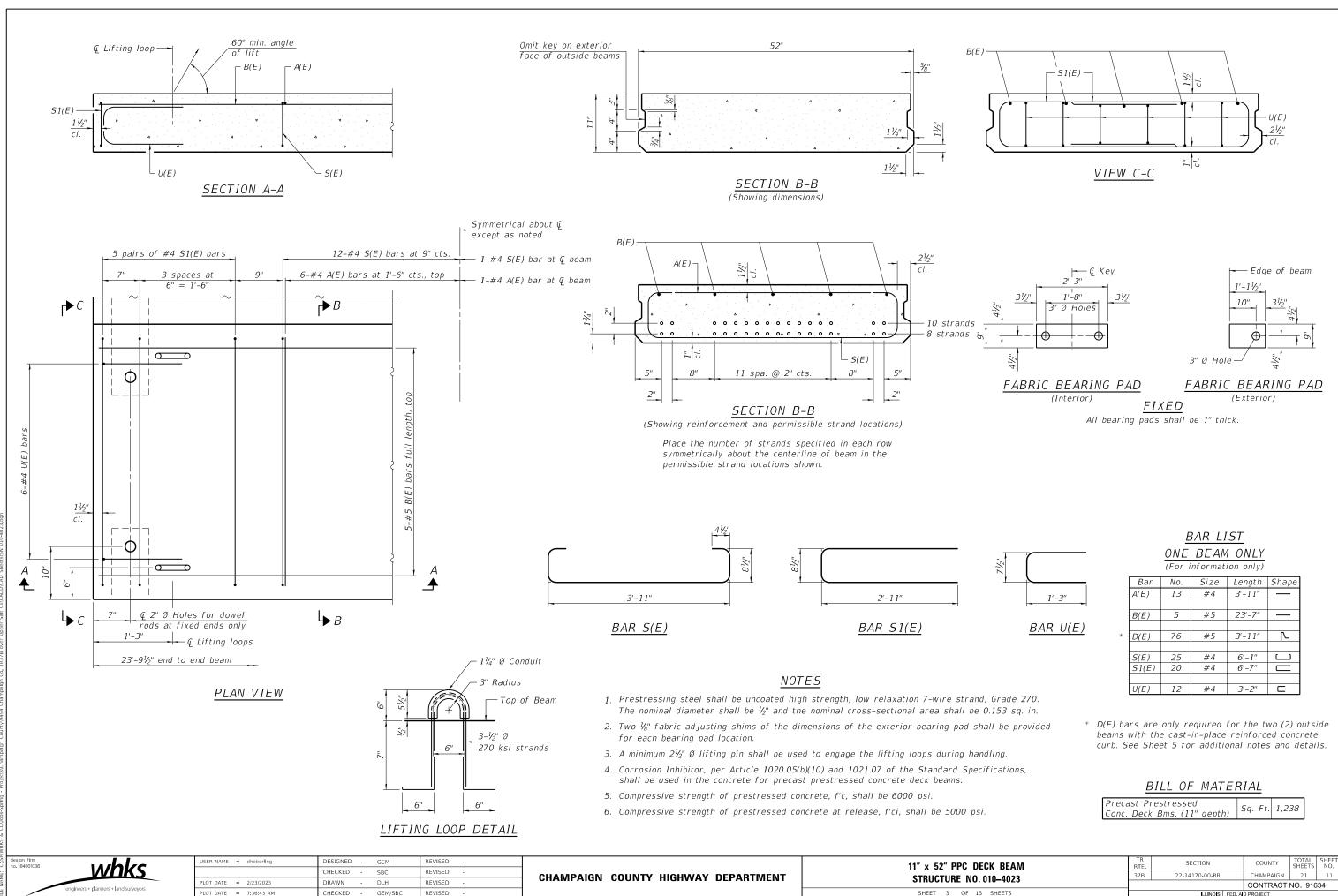




# SECTION AT ABUTMENT

1'-3"

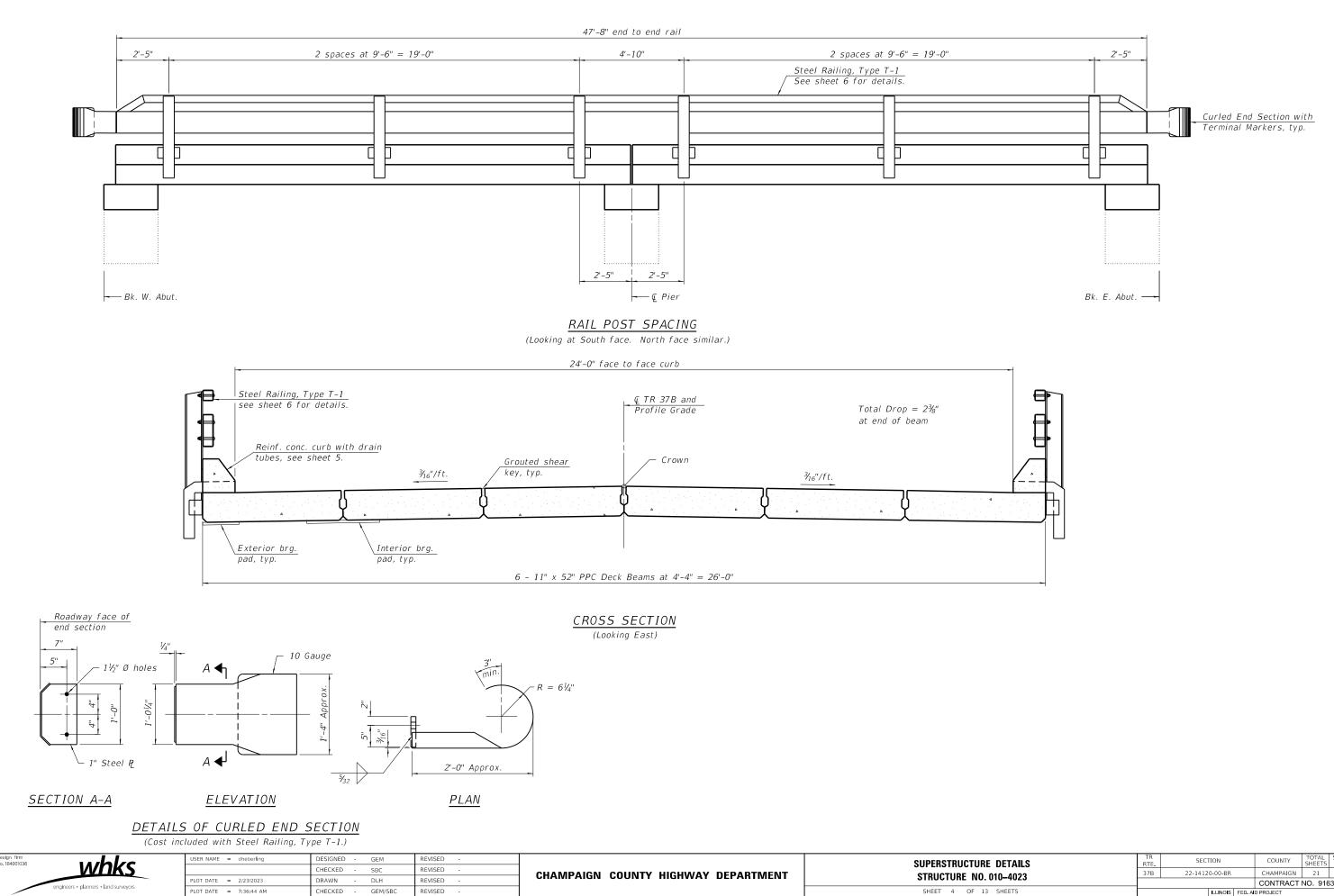
\*\* Backfill with Controlled Low-Strength Material (CLSM) (Mix 2) full width of abutment cap only, typ. each abutment.



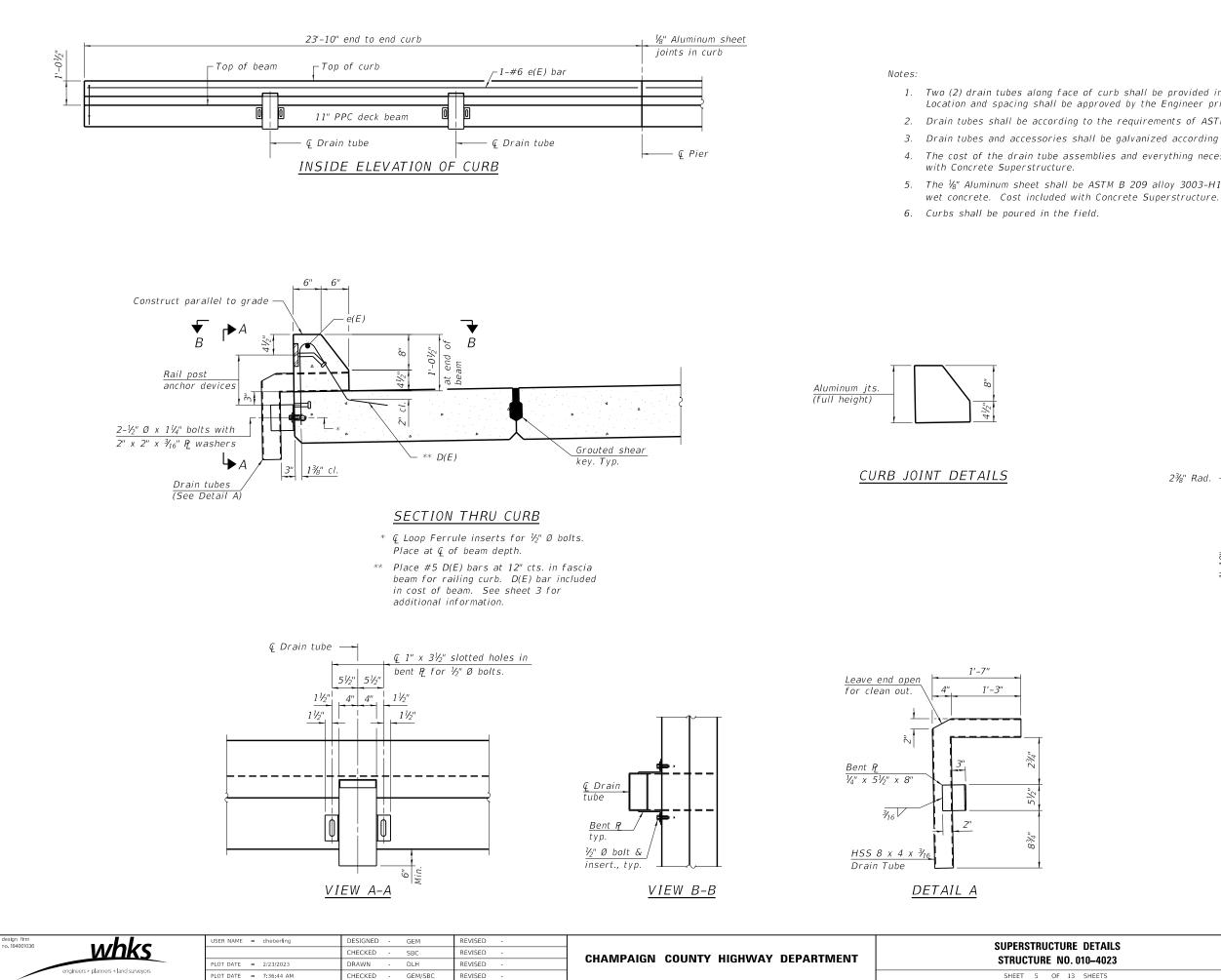
B	PAR LIS	<u>57</u>
ONE	BEAM	ONLY
(Eor i	nformatio	n only)

	Bar	No.	Size	Length	Shape
	A(E)	13	#4	3'-11"	
	B(E)	5	#5	23'-7"	—
*	D(E)	76	#5	3'-11"	
	S(E)	25	#4	6'-1''	С
	S1(E)	20	#4	6'-7"	Π
	U(E)	12	#4	3'-2"	П

	TR						
DECK BEAM		SEC.	FION		COUNTY	TOTAL SHEETS	SHEET NO.
		22-14120-00-BR		CHAMPAIGN	21	11	
. 010-4023					CONTRACT	NO. 916	34
13 SHEETS			ILLINOIS	FED. A	D PROJECT		



RE DETAILS		SECT	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
. 010–4023	37B	37B 22-14120-00-BR			CHAMPAIGN	21	12
					CONTRACT	NO. 916	34
3 SHEETS			ILLINOIS	FED. A	D PROJECT		

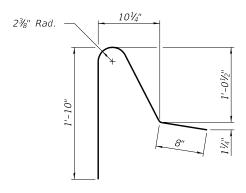


1. Two (2) drain tubes along face of curb shall be provided in each span (8 total required). Location and spacing shall be approved by the Engineer prior to construction

2. Drain tubes shall be according to the requirements of ASTM A500, Grade B.

3. Drain tubes and accessories shall be galvanized according to AASHTO M111 or M232, (as applicable). 4. The cost of the drain tube assemblies and everything necessary for their installation is included

5. The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with

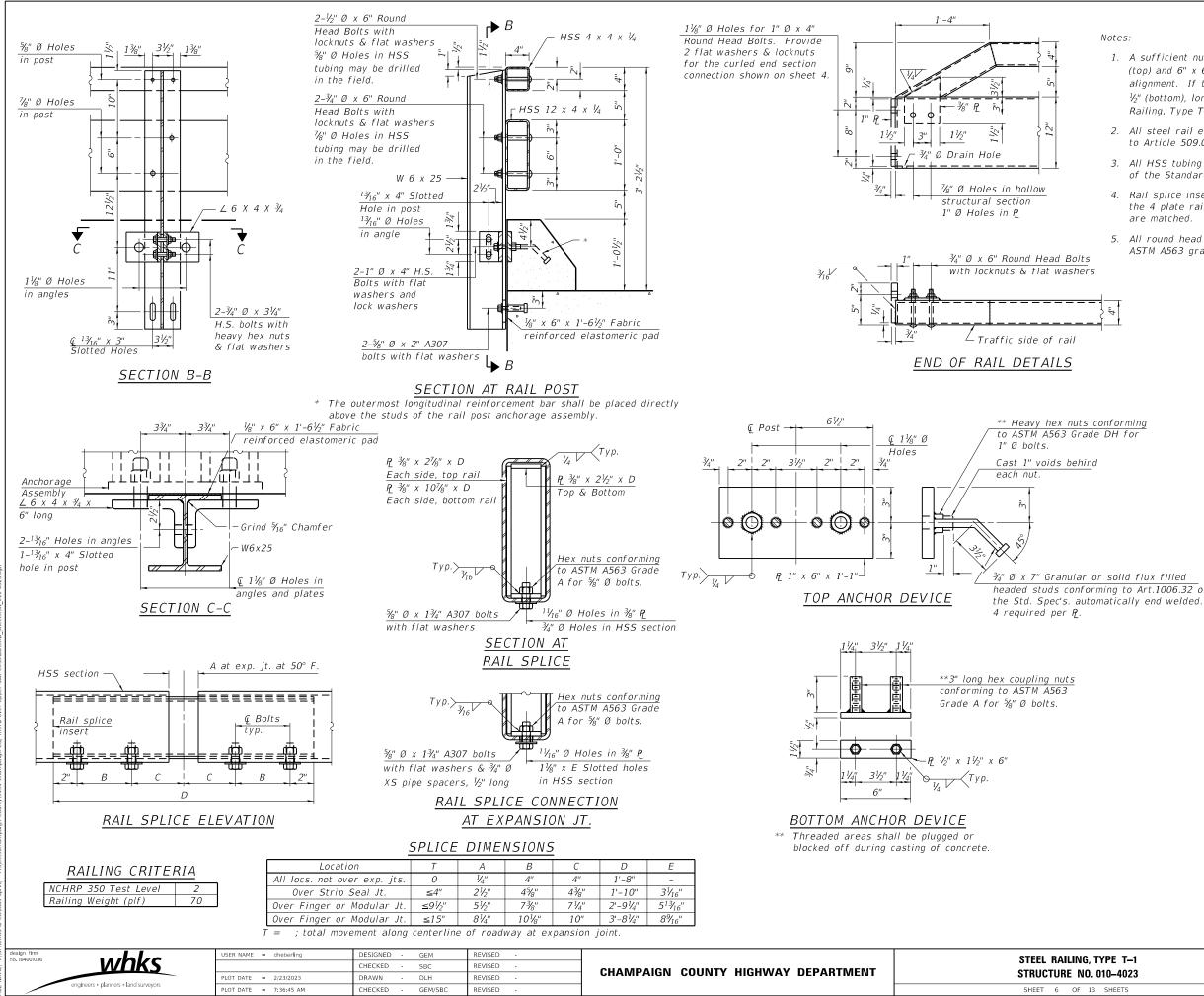


BAR D(E)

# SUPERSTRUCTURE BILL OF MATERIAL

	-			
Bar	No.	Size	Length	Shape
e(E)	4	#6	23'-6"	
	rcemen Coateo		Pound	150
Concre			Cu. Yd.	3.1

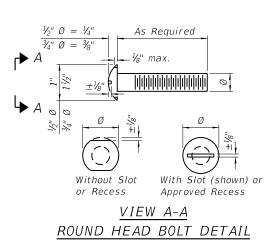
RE DETAILS 0. 010–4023		SEC	FION		COUNTY	TOTAL SHEETS	SHEET NO.
		22-1412	0-00-BR		CHAMPAIGN	21	13
					CONTRACT	NO. 916	634
13 SHEETS			ILLINOIS	FED. A	D PROJECT		



### Notes:

- 1. A sufficient number of shims of various thicknesses, sized 5" x  $11\frac{1}{2}$ " (top) and 6" x 6" (bottom), shall be provided to adjust posts for proper alignment. If the summation of shims is greater than  $\frac{1}{4}$ " (top) or  $\frac{1}{2}$ " (bottom), longer bolts are required. Cost included with Steel Railing, Type T-1.
- 2. All steel rail elements including shims shall be galvanized according to Article 509.05 of the Standard Specifications.
- 3. All HSS tubing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.
- 4. Rail splice inserts may be built out of 2 -3#8" bent plates in lieu of the 4 plate rail splice inserts shown, provided the outside dimensions are matched.
- 5. All round head bolts shall be ASTM A307 with locknuts according to ASTM A563 grade A.

Ę	4"	
7		



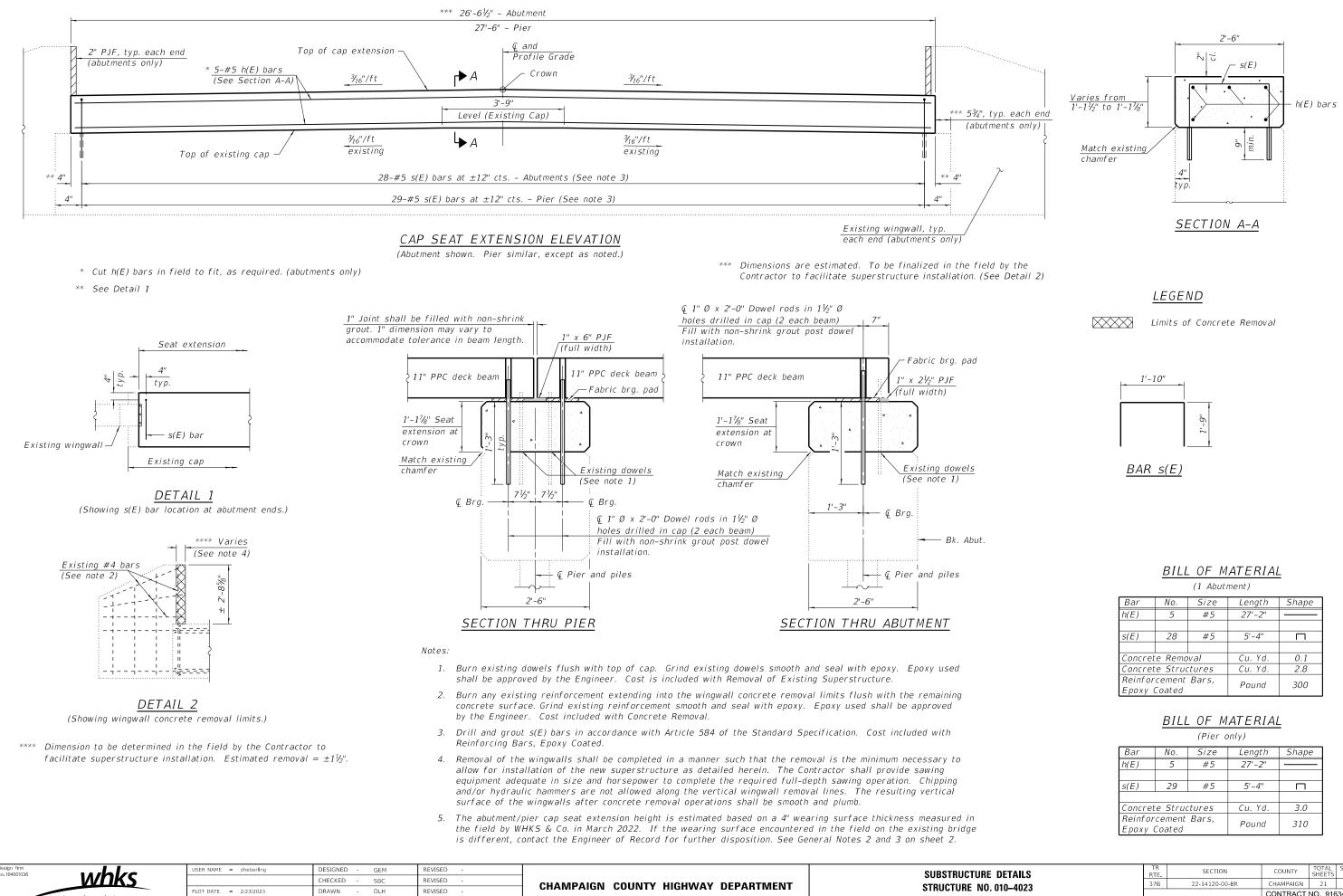
headed studs conforming to Art.1006.32 of

# BILL OF MATERIAL

Unit Quantity

	S	teel Railing,	, Тур	e T-1	Foot	96	
TYPE T–1	TR RTE.	SECTIO	ON		COUNTY	TOTAL SHEETS	SHEET NO.
010-4023	37B	22-14120-	-00-BR		CHAMPAIGN	21	14
010-4023					CONTRACT	NO. 916	634
SHEETS		IL	LLINOIS	FED. AID	PROJECT		

Item



SHEET 7 OF 1

engineers + planners + land surveyo

LOT DATE = 7:36:45 AM

GEM/SBC

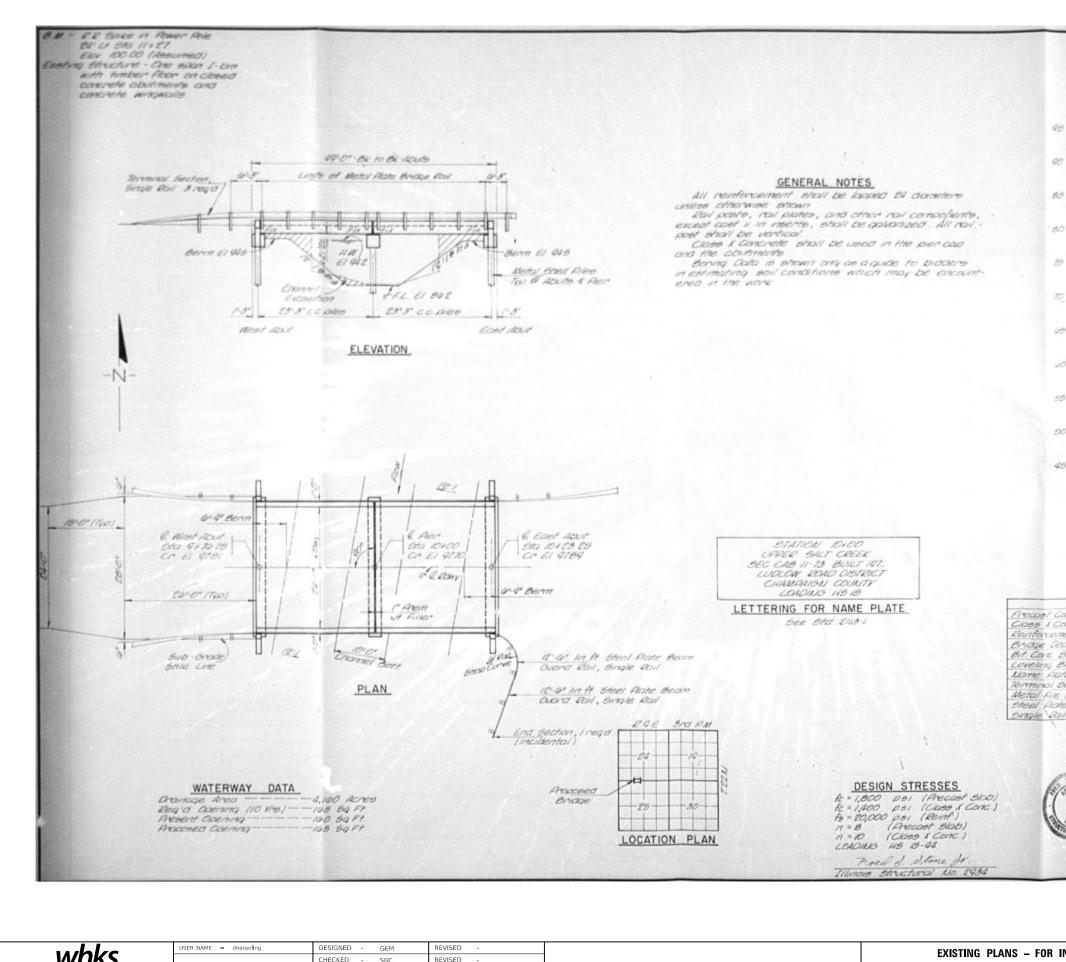
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(I Abulment)										
Bar	No.	Size	Length	Shape						
h(E)	5	#5	27'-2"							
s(E)	28	#5	5'-4"							
Concret	e Rema	ival	Cu. Yd.	0.1						
Concret	e Struc	tures	Cu. Yd.	2.8						
Reinfor Epoxy (		Bars,	Pound	300						

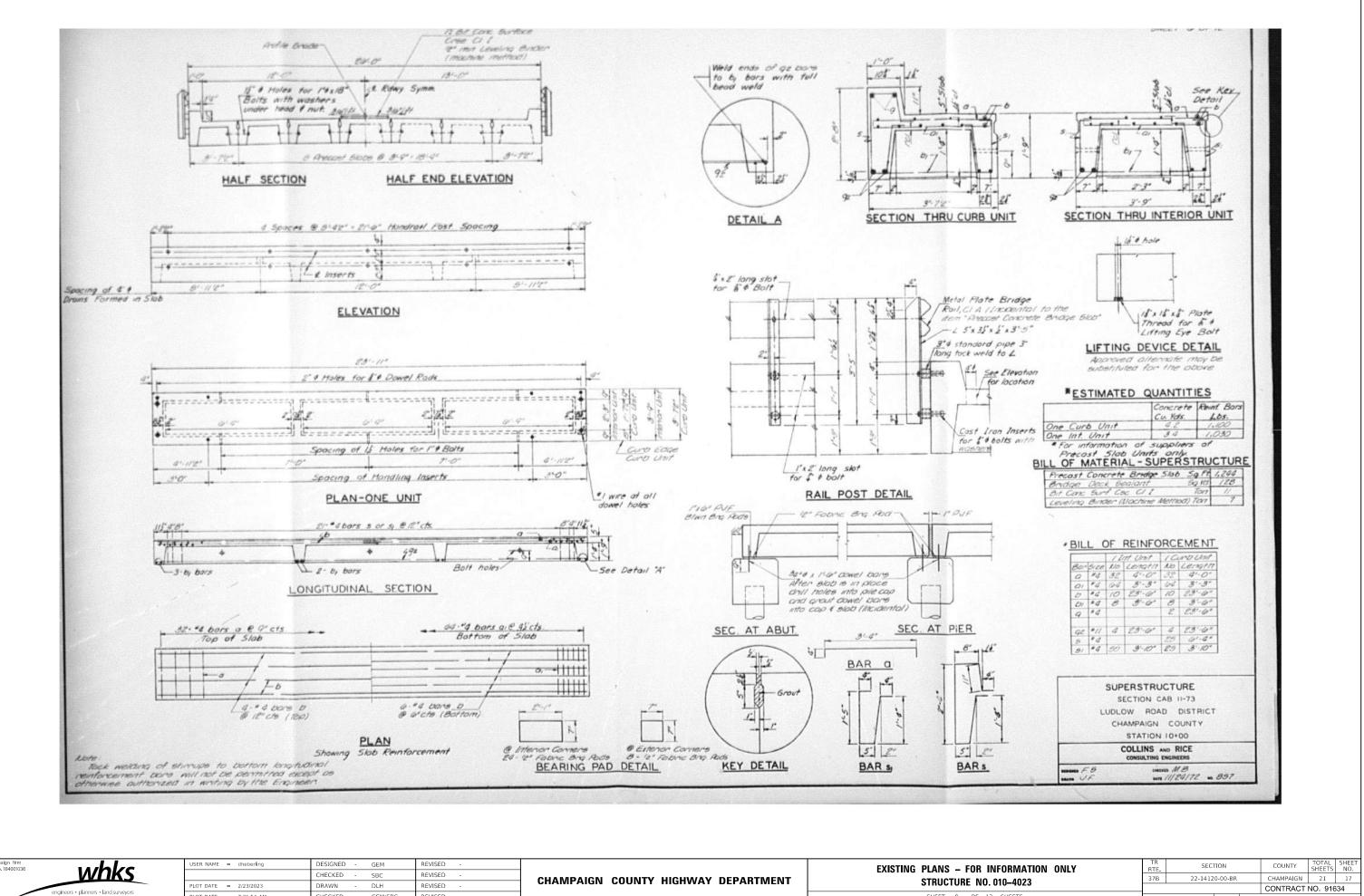
Bar	No.	Size	Length	Shape
h(E)	5	#5	27'-2"	
s(E)	29	#5	5'-4"	
Concret	e Struc	tures	Cu.Yd.	3.0
Reinfor Epoxy (		Bars,	Pound	310

E DETAILS		SECT	FION		COUNTY	TOTAL SHEETS	SHEET NO.
). 010–4023		37B 22-14120-00-BR CHAMPAIGN			CHAMPAIGN	21	15
					CONTRACT	NO. 916	634
13 SHEETS			ILLINOIS	FED. A	D PROJECT		



design firm no.184001036	USER NAME = dheberling PLOT DATE = 2/23/2023	DESIGNED     -     GEM       CHECKED     -     SBC       DRAWN     -     DLH	REVISED - REVISED - REVISED -	CHAMPAIGN COUNTY HIGHWAY DEPARTMENT	EXISTING PLANS – FOR INFOR Structure No.010–
engineers + planners + land surveyors	PLOT DATE = 7:36:46 AM	CHECKED - GEM/SBC	REVISED -		SHEET 8 OF 13 SHE

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INFORMATION O		TR RTE.		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
. 010–4023		37B		22-14120-00	-BR	CHAMPAIGN	21	16



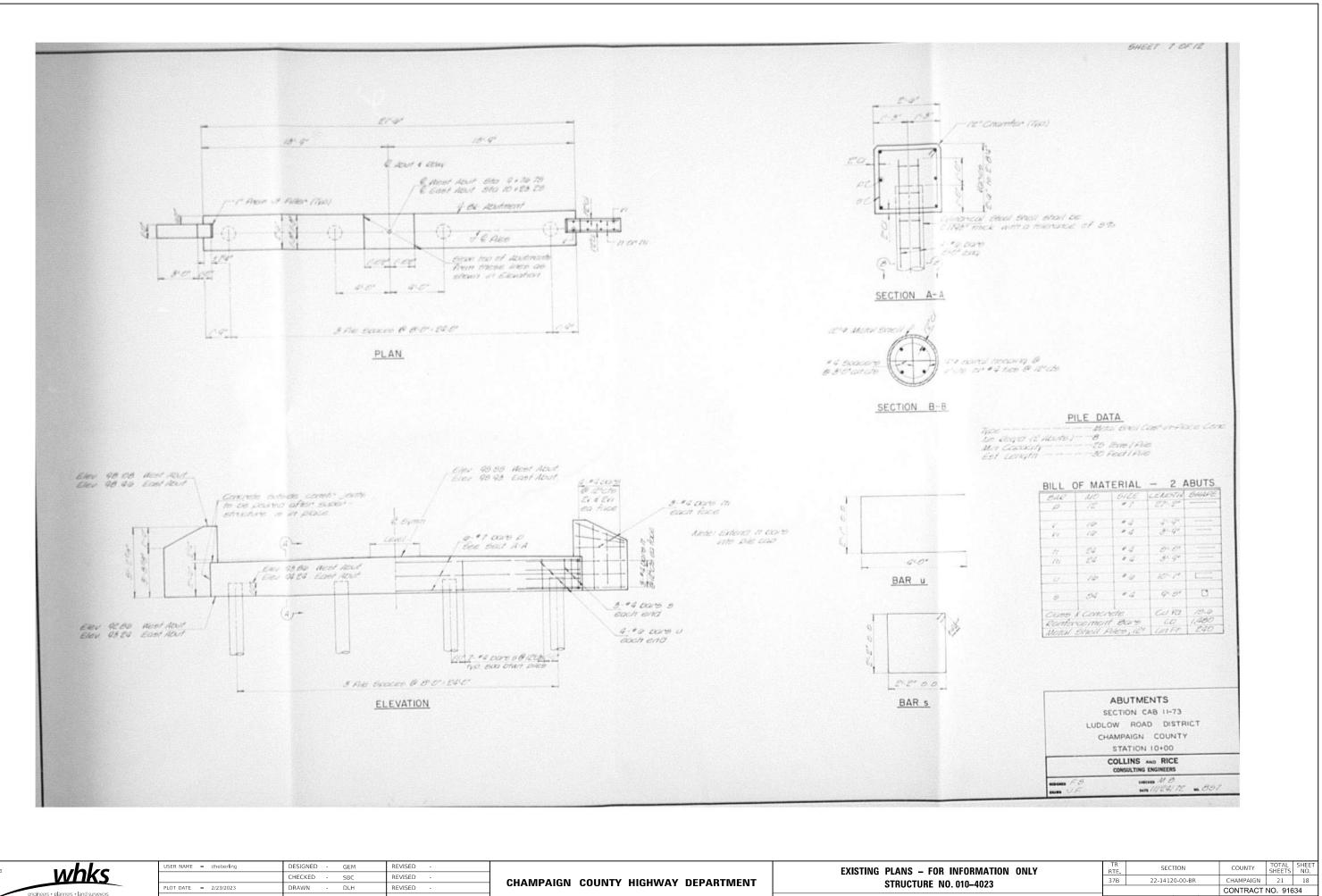
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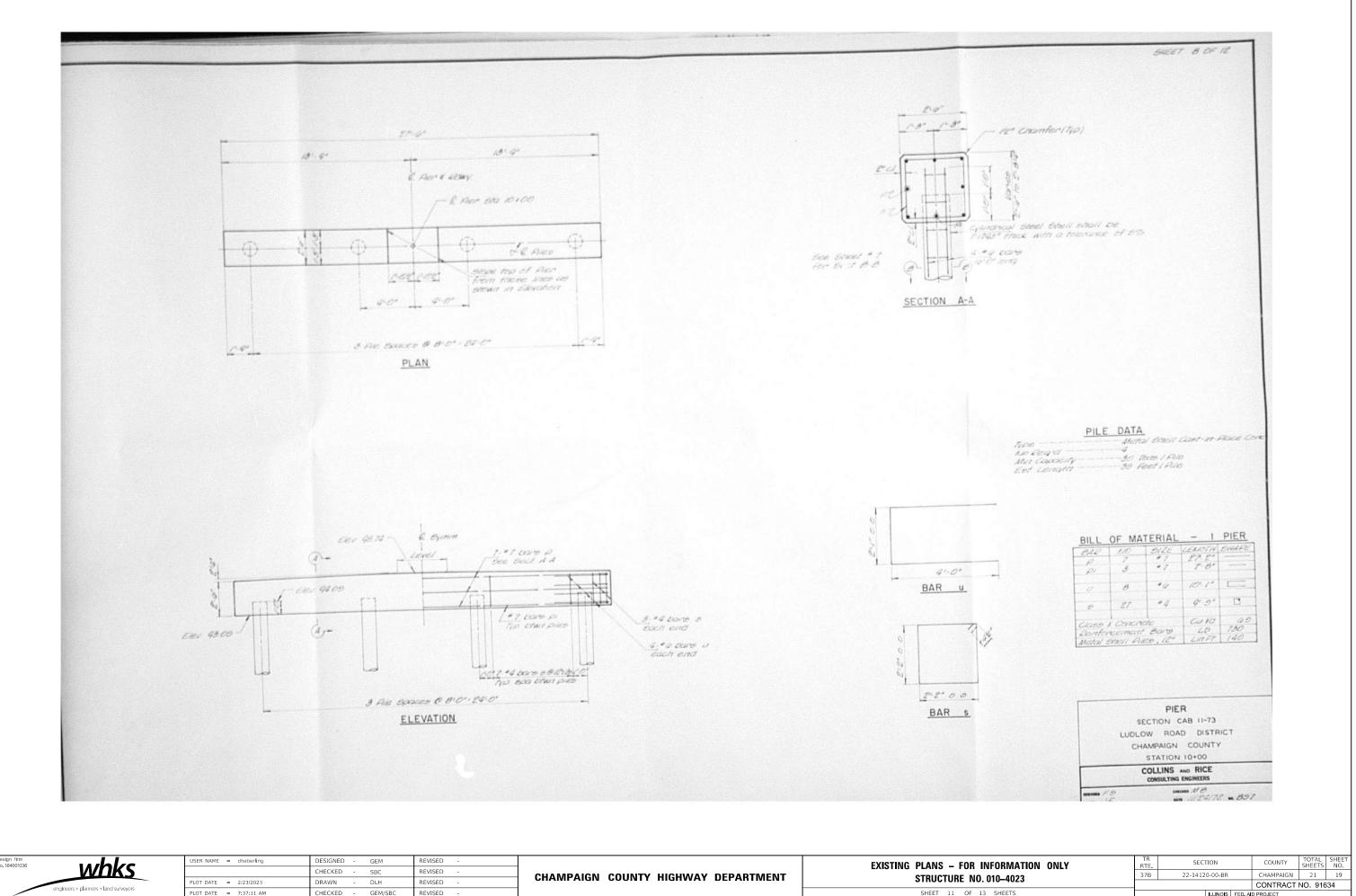
SHEET 9 OF 13 SHEETS

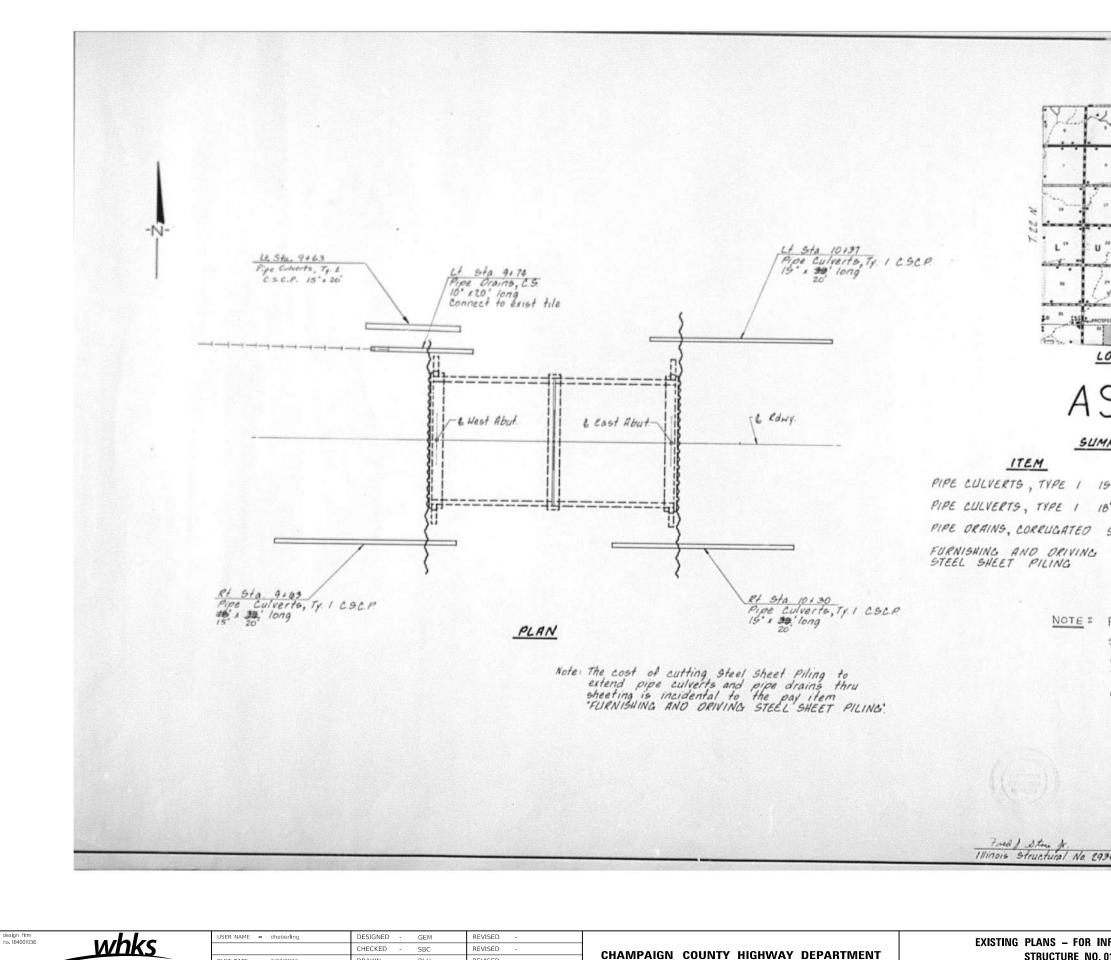


design firm no.184001036	whks	USER NAME = dheberling	DESIGNED - GEM CHECKED - SBC	REVISED - REVISED -	CHAMPAIGN COUNTY HIGHWAY DEPARTMENT	EXISTING PLANS - FOR INF
		PLOT DATE = 2/23/2023	DRAWN - DLH	REVISED -		STRUCTURE NO. 01
engineers + planners + land surveyors	PLOT DATE = 7:37:02 AM	CHECKED - GEM/SBC	REVISED -		SHEET 10 OF 13	

SHEETS

ILLINOIS FED. AID PROJECT





LOT DATE = 2/23/2023

LOT DATE = 7:37:19 AM

engineers + planners + land surveyor

DRAWN

CHECKED -

DLH

GEM/SBC

REVISED

REVISED

STRUCTURE NO. SHEET 12 OF 13 SHEETS

CHAMPAIGN COUNTY HIGHWAY DEPARTMENT

	400/11 NS 1827/04	COUNTY TO BE	the second s	
R. 9E., 3rd P.M.	Pro	005ed rovement		
S BUI	LT			
MMARY OF QUANT	TITIES			
	UNIT	QUANTITY	4	
15° C.S.C.P.	LIN FT	# 80		
18° C.S.C.P.	LIN FT	30 0		
STEEL 10'	LIN FT	20		
	59 FT	<b>5032</b> 19	98	
PMA-22 was not a substituted. The w was 1.635' and the is 2.135' (25%). Tim were used: 36 pcs. 18 pcs.	uidth of the e width of th e following ler	PMA-22(p be 52-22(j byths of S SQFT. SQFT.		
	ABUTMENT STRUCTURE NO LUDLOW ROAD CHAMPAIGN C STATION	010-4023 DISTRICT 0UNTY 0100		
	COLLINS AND CONSULTING END	INCERS		
1934 DRAWN R.N.		M.J.R. -26-87 to 22	31	
INFORMATION ONLY	TR RTE. 37B	SECTION 22-14120-00-BR	COUNTY	TOTAL SHEET SHEETS NO. 21 20
D. 010–4023 13 SHEETS				<sup>-</sup> NO. 91634

