04-29-2022 LETTING ITEM 186

631031-17 701901-08

BLR 21–9

8LR 22-7

701311-09

J.U.L.J.E.

OR 811

1-800-892-0123

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IDOT S	STA	NDARDS
		STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
		AREA OF REINFORCEMENT BARS
		DECIMAL OF AN INCH AND OF A FOOT
		PAVEMENT JOINTS
		24' JOINTED PCC PAVEMENT
		PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
606001-	-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER

TRAFFIC BARRIER TERMINAL TYPE 6

CONSTRUCTION ON RURAL LOCAL HIGHWAYS

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO-LANE

LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY

TWO WAY RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC)

TRAFFIC CONTROL DEVICES

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS

PROJECT MANAGER – CINDY LOOS. P.E.

CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

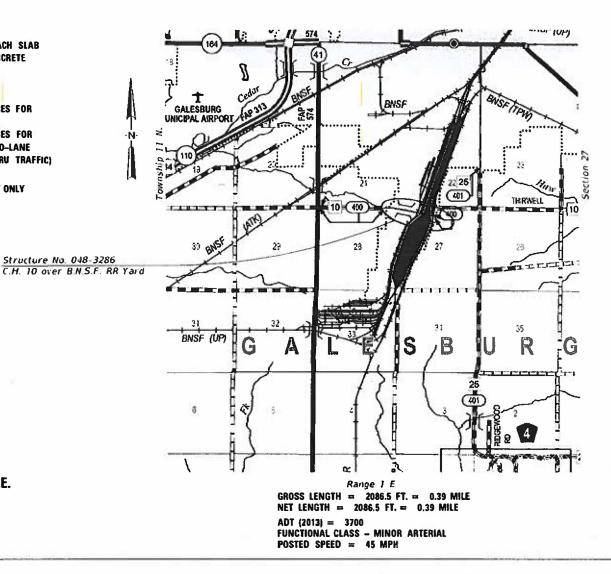
PROJECT ENGINEER - JARED THOELE, P.E., S.E.

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT

610001-09 SHOULDER INLET WITH CURB

PLANS FOR PROPOSED CONTRACT MAINTENANCE

ICC MULTI-MODAL BOND FUNDS (MMBF) F.A.S. 400 - C.H. 10 SECTION 18-00043-01-BR **GALESBURG TOWNSHIP KNOX COUNTY** JOB NO. C-94-013-22





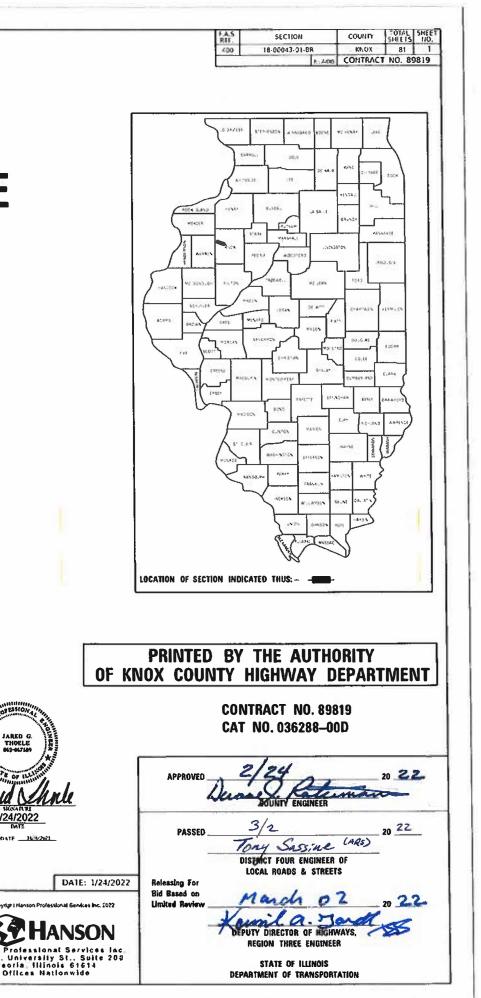


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GENERAL NOTES

- 1. THE CONSTRUCTION SHALL BE GOVERNED BY THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", 2022 EDITION AND "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", 2022 EDITION.
- 2. ALL REFERENCES TO THE "DEPARTMENT" OR "ENGINEER" IN THE I.D.O.T. STANDARD SPECIFICATIONS SHALL BE CONSTRUED TO MEAN THE OWNER OR HIS AGENT AS APPROPRIATE.
- 3. WHERE SECTION, SUB-SECTION, SUBDIVISION, OR PROPERTY MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS UNTIL AN OWNER OR AUTHORIZED SURVEYOR HAS WITNESSED OR REFERENCED THEIR LOCATION.
- 4. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCY IMMEDIATELY.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO ANY UTILITY LINES AND EXISTING IMPROVEMENTS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THE WORK.
- 6. ALL SECTIONS, DETAILS AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE, UNLESS OTHERWISE SHOWN.
- 7. ALL THE ELEVATIONS, STATIONS, AND OFFSETS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- 8. ALL PAVEMENT REMOVALS SHALL BE FULL DEPTH SAW CUT AT THE LIMITS TO BE REMOVED. THE COST OF THE SAW CUT IS INCLUDED IN PAVEMENT REMOVAL.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.
- 10. EXCESS MATERIAL, IF NOT USED FOR OTHER ON-SITE PURPOSES, SHALL BE HAULED OFF-SITE AT CONTRACTOR'S EXPENSE.
- 11. THE WORK AREA SHALL BE POSITIVELY DRAINED DURING CONSTRUCTION. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION, AND TRAFFIC.
- 12. THE CONTRACTOR SHALL USE ANY ON SITE MATERIAL DEEMED SUITABLE BY THE ENGINEER BEFORE ANY NEW FILL IS HAULED TO THE SITE.
- 13. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
- 14. CONTRACTORS BIDDING THIS PROJECT SHALL VISIT THE SITE BEFORE BIDDING.
- 15. COMPLETE ROAD CLOSURE SHALL BE USED FOR DURATION OF CONSTRUCTION IN ACCORDANCE WITH HIGHWAY STANDARDS B.L.R. 21-9 AND B.L.R. 22-7.
- 16. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED AS DIRECTED BY THE ENGINEER AT THE CONTRACTORS EXPENSE.
- 17. IN ADDITION TO THE REQUIREMENT OF ARTICLE 107.16, THE CONTRACTOR SHALL PROTECT THE SURFACE OF ALL BRIDGE DECKS AND BRIDGE APPROACH PAVEMENTS IN A MANNER SATISFACTORY TO THE ENGINEER BEFORE ANY EQUIPMENT IS ALLOWED TO CROSS THE STRUCTURE. PROTECTION SHALL BE PROVIDED FOR ALL EQUIPMENT, AS DEFINED IN ARTICLE 101.17, REGARDLESS IF TRACK MOUNTED OR WHEELED.

IDOT DISTRICT 4 GENERAL NOTES

204.00 ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL	۸	CONTROL POINT	A A	OVERHEAD ELECTRIC
FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.	⊞	EXISTING TELEPHONE PEDESTAL	TT	UNDERGROUND TELEPHONE
THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:	\rightarrow	EXISTING GUY	— G — —	UNDERGROUND GAS
 BDE FORM 2289 (CULTURAL AND NATURAL RESOURCES REVIEW OF BORROW AREAS) BDE FORM 2290 (WASTE/USE AREA REVIEW) A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA 	-[]-	EXISTING POWER POLE		EXISTING R.O.W.
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA - BORROW AREA ENTRY AGREEMENT FORM - D4 PI0101	þ	EXISTING SIGN	<u></u>	EXISTING GUARDRAIL
PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS SHALL BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.	\odot	EXISTING TREE	·····	PROPOSED GUARDRAIL
ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES. THE COST ASSOCIATED WITH THIS WORK SHALL	\boxtimes	EXISTING R.O.W. MARKER	-1-1-1-1-1-1-1-1-	EXISTING FENCE
BE INCLUDED IN THE VARIOUS REMOVAL PAY ITEM. PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED WASTE SITE ENVIRONMENTAL CLEARANCES AND SIX WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES.	Þ	PROPOSED SIGN		VEGITATION LINE

606.14 TRANSITION PAYMENT METHOD - NEW/OLD CONSTRUCTION

TEN FEET (10 FT.) (3 M) TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD UNLESS OTHERWISE SHOWN. THE TRANSITION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.

HANSON

USER NAME = Johns00944	DESIGNED - CGP	REVISED -				FAS 4	400 (C.H	. 10
PLOT SCALE = 10.0000 ' / in.	DRAWN - RSJ CHECKED - JGT	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			GENE	RAL NO	TES
PLOT DATE = 2/3/2022	DATE - 01/24/2022	REVISED -		SCALE:	SHEET	OF	SHEETS	ST

<u>LEGEND</u>

H	l. 10)		F.A.S. RTE	SEC	FION		COUNTY	TOTAL SHEETS	2	
n	TES		400	18-0004	3-01-BR		KNOX	81	2	
U	ILJ						CONTRACT	NO. 898	319	
S	STA.	TO STA.			ILLINOIS FE	D, Al	D PROJECT			

	USER NAME = ThoeI01490	DESIGNED - CGP						
SPECIAL PROVISI		······		REVISED -]	L
50301350	CONCRETE SUPERSTR	RUCTURE (APPROACH	SLAB)		CU YD	289.2	*	X0322924
50300300	PROTECTIVE COAT				SQ YD	13273	*	X0322215
50300260	BRIDGE DECK GROOV	/ING			SQ YD	567	Δ	78200005
50300255	CONCRETE SUPERSTR	RUCTURE			CU YD	45.7		78009004
50300225	CONCRETE STRUCTUR	RES			CU YD	31.8		67100100
50157500								
50157300	PROTECTIVE SHIELD)			SQ YD	463		63200310
50102400	CONCRETE REMOVAL				CU YD	46.8		63100085
44000300	CURB REMOVAL				FOOT	60		60600605
44000100	PAVEMENT REMOVAL				SQ YD	342		60500060
42000501	PORTLAND CEMENT (CONCRETE PAVEMENT	10" (JOI	NTED)	SQ YD	280		60100955
31200100	STABILIZED SUBBAS	SE 4"			SQ YD	174		59000200
31102100	SUBBASE GRANULAR	MATERIAL, TYPE C	4 "		SQ YD	170	*	52200500
30300001	AGGREGATE SUBGRAD	DE IMPROVEMENT			CU YD	76		52000110
20800150	TRENCH BACKFILL				CU YD	15.6		50800205
CODE NO.		ITEM			UNIT	QUANTITY		CODE NO.

	PORTATION	SUMMARY OF QUANTITIES - 1		CONTRACT NO. 89819
INO	IS		400 18-00043-01-BR	KNOX 81 3
	· ·		F.A.S. SECTION	COUNTY TOTAL SHE SHEETS N
l				
	X0322924	RETAINING WALL REMOVAL		3030
*	X0222024		SQ FT	3690
ł				
*	X0322215	CLEANING BRIDGE SCUPPERS AND DOWNSPOUTS	EACH	56
Δ	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8
	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	8346
ſ	67100100	MOBILIZATION	L SUM	1
	03200310			
	63200310	GUARDRAIL REMOVAL	FOOT	196
Δ	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4
-				
	60600605	CONCRETE CURB, TYPE B	FOOT	60
	60500060	REMOVING INLETS	EACH	4
	00100900	FIFE DRAINS 13		
	60100955	PIPE DRAINS 15"	FOOT	102
	59000200	EPOXY CRACK INJECTION	FOOT	26
	52200500	MECHANICALLI STADILIZLO LANTE KETAINING WALL	5411	
*	52200500	MECHANICALLY STABILIZED EARTH RETAINING WALL	SQ FT	3690
-	52000110	PREFORMED JOINT STRIP SEAL	FOOT	432
-	30800203			
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	114790
	CODE NO.	ITEM	UNIT	QUANTITY
Г				

SCALE:



CGP 05/06/21 RSJ 05/06/21 JGT 01/24/2022 LAYOUT DRAWN REVIEWED MODEL: SOQ

FAS 400 (C.H. 10)		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SUMMARY OF QUANTITIES - 1		400	18-00043-01-BR	KNOX	81	3
SUMMART OF QUANTITIES - I				CONTRACT	NO. 898	819
SHEET OF SHEETS STA.	TO STA.		ILLINOIS FED. A	AID PROJECT		

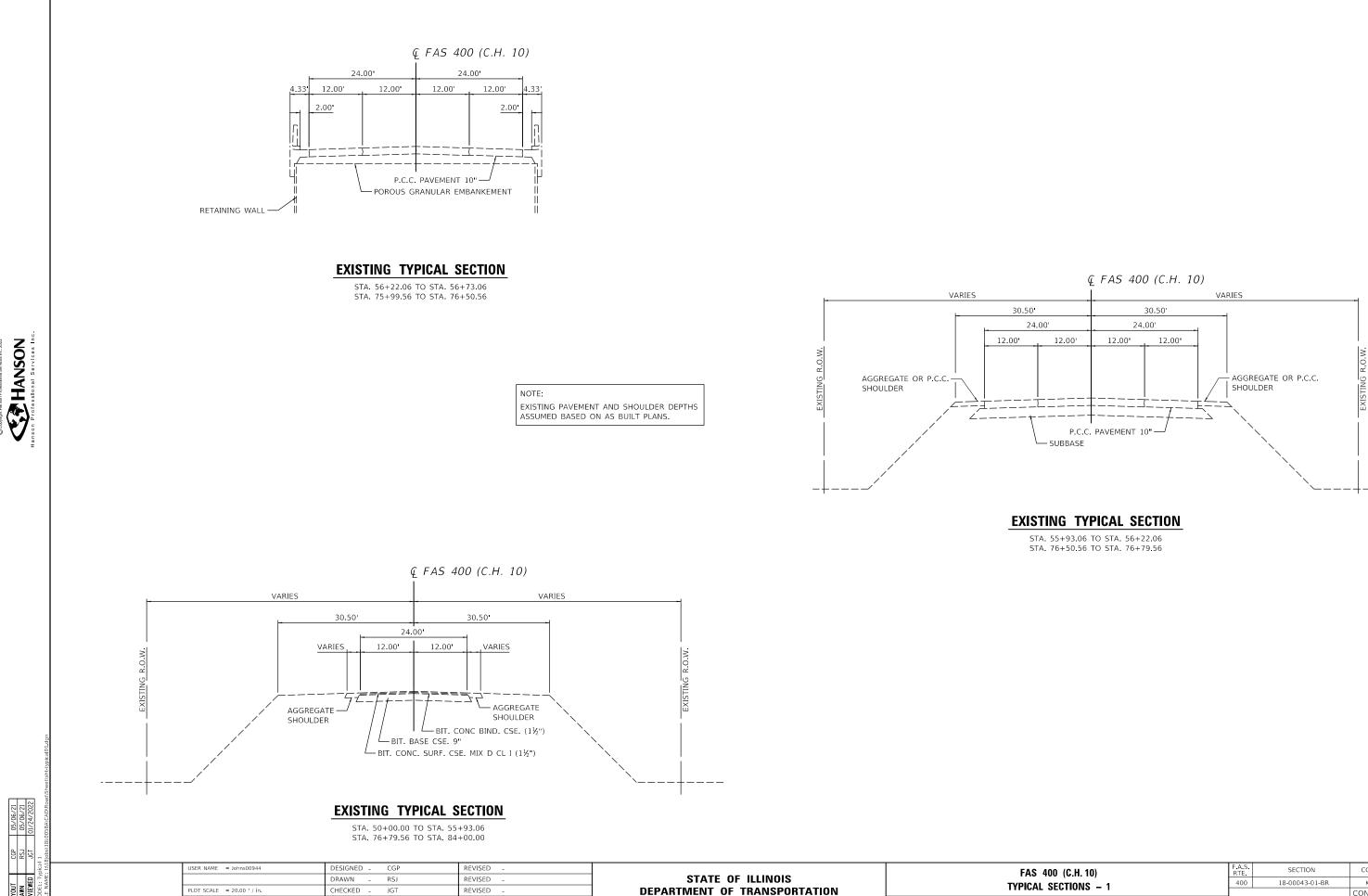
				anna Mina a sannashi ang ang	<u> </u>	
	CODE NO.		ITEM		UNIT	QUANTITY
*	X0323586	PIPE DRAIN REMOVAL			FOOT	122
*	X0900022	BRIDGE DRAINAGE SYSTE	M REPAIR		FOOT	100
*	X6100120	TYPE E INLET BOX, STA	NDARD 610001 (SPECIA	L)	EACH	4
*	X7010216	TRAFFIC CONTROL AND P	ROTECTION. (SPECIAL)		L SUM	1
*	XX008979	CONCRETE COLLAR			EACH	2
*	Z0001002	GUARDRAIL AGGREGATE E	ROSION CONTROL		TON	36
*	Z0004552	APPROACH SLAB REMOVAL			SQ YD	642
Δ *	Z0007101	CONTAINMENT AND DISPO	SAL OF LEAD PAINT CL	EANING RESIDUES NO. 1	L SUM	1
1 *	Z0010501	CLEANING AND PAINTING	STEEL BRIDGE NO. 1		L SUM	1
*	Z0012754	STRUCTURAL REPAIR OF	CONCRETE (DEPTH EQUA	L TO OR LESS THAN 5 INCHES)	SQ FT	814
*	Z0016200	DECK SLAB REPAIR (PAR	TIAL)		SQ YD	407
*	Z0048665	RAILROAD PROTECTIVE L	IABILITY INSURANCE		L SUM	1
*	Z0073200	TEMPORARY SHORING AND	CRIBBING		EACH	16
#	Z0076600				HOUR	1000
#	Z0076604	TRAINEES TRAINING PROGR	AM GRADUA I E		HOUR	1000
2	SPECIAL PROVISIO		042			
		USER NAME = Thoel01490	DESIGNED - CGP DRAWN - RSJ	REVISED - REVISED -	DPD - - - - - - - - - -	STATE O
		PLOT SCALE = 2.00 ' / in. PLOT DATE = 3/7/2022	CHECKED - JGT DATE - 01/24/2022	REVISED - REVISED -	DEPA	RTMENT OF

Copyoin Hausan Pranadaud Sances Inc. 2022 **Ann Son Professional Services inc.**

LAYOUT CGP 05/06/21 DRAWN RSJ 05/06/21 REVIEWED JGT 01/24/2022 MODEL 50/0 3

FAS 400 (C.H. 10 SUMMARY OF QUANTI SCALE:

10) TITIES – 2		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		400	18-00043-01-BR	KNOX	81	4
				CONTRACT	CONTRACT NO. 89819	
STA.	TO STA.		ILLINOIS FEI	D. AID PROJECT		



LAYOUT DRAWN REVIEWED

PLOT DATE = 2/3/2022

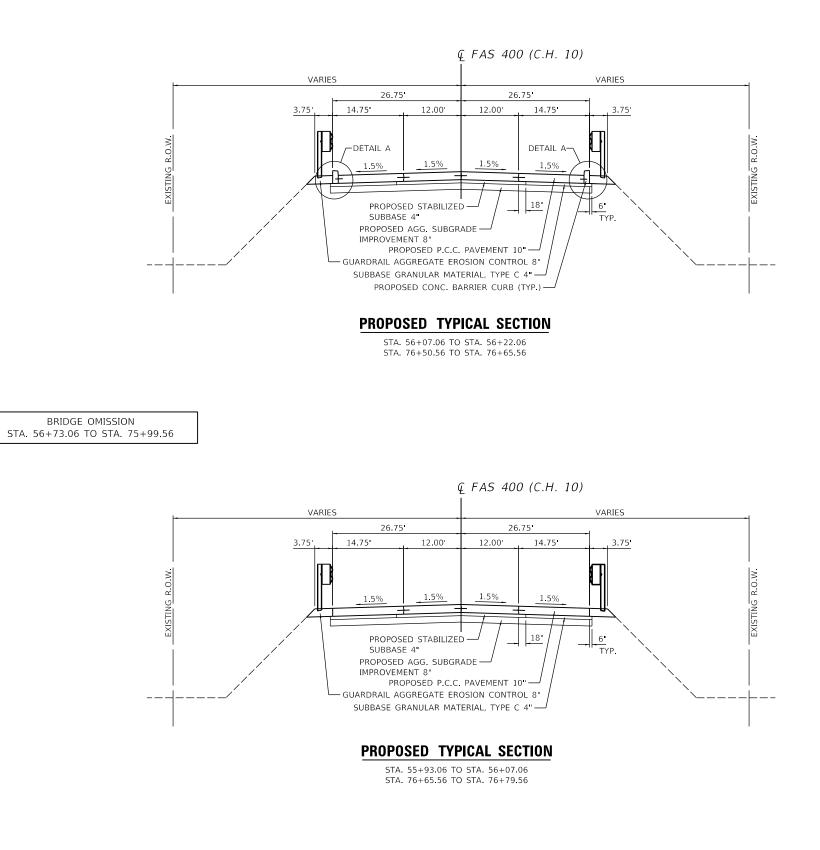
DATE

01/24/2022

REVISED

SCALE: SHEET OF SHEET

:.н	.H. 10)		F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
เกเ	NS _ 1		400	18-00043-01-BR	KNOX	81	5
IONS – 1				CONTRACT	NO. 898	319	
TS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

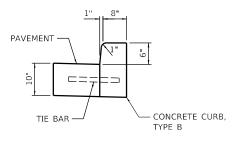


USER NAME = Johns00944	DESIGNED -	CGP	REVISED -				FAS	400 (C.H. 10)		F.A.S. RTE	SECTION	COUNTY TOT.	TAL SHEET EETS NO.
	DRAWN -	RSJ	REVISED -	STATE OF ILLINOIS				. SECTIONS – 2		400	18-00043-01-BR	KNOX 83	31 6
PLOT SCALE = 20.00 / in.	CHECKED -	JGT	REVISED -	DEPARTMENT OF TRANSPORTATION			TTFICAL	32010N3 = 2				CONTRACT NO.	89819
PLOT DATE = 2/3/2022	DATE -	01/24/2022	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT	



05/06/21 05/06/21 01/24/2022

LAYOUT DRAWN REVIEWED



DETAIL A

NOTE: MATCH CROSS SECTION OF CURB ON BRIDGE APPROACH SLAB.

P.	AVEMENT MAR	KING SCHEDULE
		78009004
LOCA	ΓΙΟΝ	MODIFIED URETHANE PAVEMENT MARKING - LINE
BEGIN STATION	END STATION	FOOT
COUNTY HIC	GHWAY 10	
55+93.06	76+79.56	8,346
TOT	AL	8,346

						X6100120		
						TYPE E INL		
			LOCATION			BOX, STAND		
						610001		
NO.	STATION	OFFSET	FRAME ELEV.	N. INVERT ELEV.	S. INVERT ELEV.	EACH		
	COUNT	HIGHWAY	10					
S1	56+10.54	21.08' LT	811.91	807.71	807.88	1		
S2	56+10.54	21.08' RT	811.91	808.33	-	1		
S3	76+60.79	21.08' LT	817.56	813.98	-	1		
S4	76+60.79	21.08' RT	817.56	813.23	813.06	1		
	•			•	•			
T	OTAL					4		

		PA	VEMENT AND SHOUL	DER SCHEDU	.E		
		30300108	31102100	31200100	42000500	50300300	60600605
LOCATION		AGGREGATE SUBGRADE IMPROVEMENT 8"	SUBBASE GRANULAR MATERIAL, TYPE C 4"	STABILIZED SUBBASE 4"	PORTLAND CEMENT CONCRETE PAVEMENT 10"	PROTECTIVE COAT	CONCRETE CURB, TYPE B
BEGIN STATION	END STATION	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	FOOT
COUNTY HI	GHWAY 10						
55+93.06	56+22.06	172	85	87	140	140	
76+50.56	76+79.56	172	85	87	140	140	
56+07.06	56+22.06						30
76+50.56	76+65.56						30
тот	AL	344	170	174	280	280	60

 REMOVAL SCHEDULE

 44000100
 44000300
 63200310

30 30

60

CURB GUARDRAIL REMOVAL REMOVAL

FOOT

98 98

196

PAVEMENT REMOVAL

171 171

342

BEGIN STATION END STATION SQ YD FOOT

LOCATION

COUNTY HIGHWAY 10

 COUNTY HIGHWAY 10

 55+93.06
 56+22.06

 76+50.56
 76+79.56

 56+08.75
 56+22.06

 76+50.56
 76+63.87

 55+85.16
 56+34.06

 76+38.56
 76+87.46

TOTAL

			PIPE SCHED	JLE		
				20800150	60100955	XX008979
FROM STRUCTURE		TO STF	RUCTURE	TRENCH BACKFILL	PIPE DRAINS 15"	CONCRETE COLLAR
NO.	INVERT ELEV.	NO.	INVERT ELEV.	CU YD	FOOT	EACH
COUNTY H	IGHWAY 10					
S2	808.33	S1	807.88	6	44	
S1	807.71	EXIST. PIPE	807.68	1	7	1.00
S3	813.98	S4	813.23	7	44	
S4	813.06	EXIST. PIPE	813.03	1	7	1.00
TOTAL		TOTAL		16	102	2.0

			GUARDRAIL SCHE	EDULE	
			63100085	78200005	Z0001002
L	OCATION		TRAFFIC BARRIER TERMINAL, TYPE 6	GUARDRAIL REFLECTORS, TYPE A	GUARDRAIL AGGREGATE EROSION CONTROL
BEGIN STATION	END STATION	SIDE	EACH	EACH	TON
COUNTY HIC	GHWAY 10				
55+85.16 56+24.56		LT	1	2	
55+85.16			1	2	
76+48.06	76+87.46	LT	1	2	
76+48.06	76+87.46	RT	1	2	
55+85.16	56+22.06	LT			9
55+85.16	56+22.06	RT			9
76+50.56	76+87.46	LT			9
76+50.56	76+87.46	RT			9
тот,	AL		4	8	36

DRAI	NAGE REMO	VAL SCHEDU	ILE
		60500060	X0323586
LOCAT	ION	REMOVING INLETS	PIPE DRAIN REMOVAL
STATION	OFFSET	EACH	FOOT
COUNTY HIGH	NAY 10		
56+10.54	26.00' LT	1	
56+10.54	26.00' RT	1	
76+60.79	26.00' LT	1	
76+60.79	26.00' RT	1	
56+10.54	LT/RT		61
76+60.79	LT/RT		61
TOTA	AL.	4	122

USER NAME = Johns00944	DESIGNED - CGP	REVISED -				FAS	400 (C.H	10)		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET
	DRAWN - RSJ	REVISED -	STATE OF ILLINOIS		SCHEDULE OF QUANTITIES					400	18-00043-01-BR	клох	81	7
PLOT SCALE = 2.00 / in.	CHECKED - JGT	REVISED -	DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES					CONTRAC		NO. 89	819		
PLOT DATE = 2/3/2022	DATE - 01/24/2022	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				

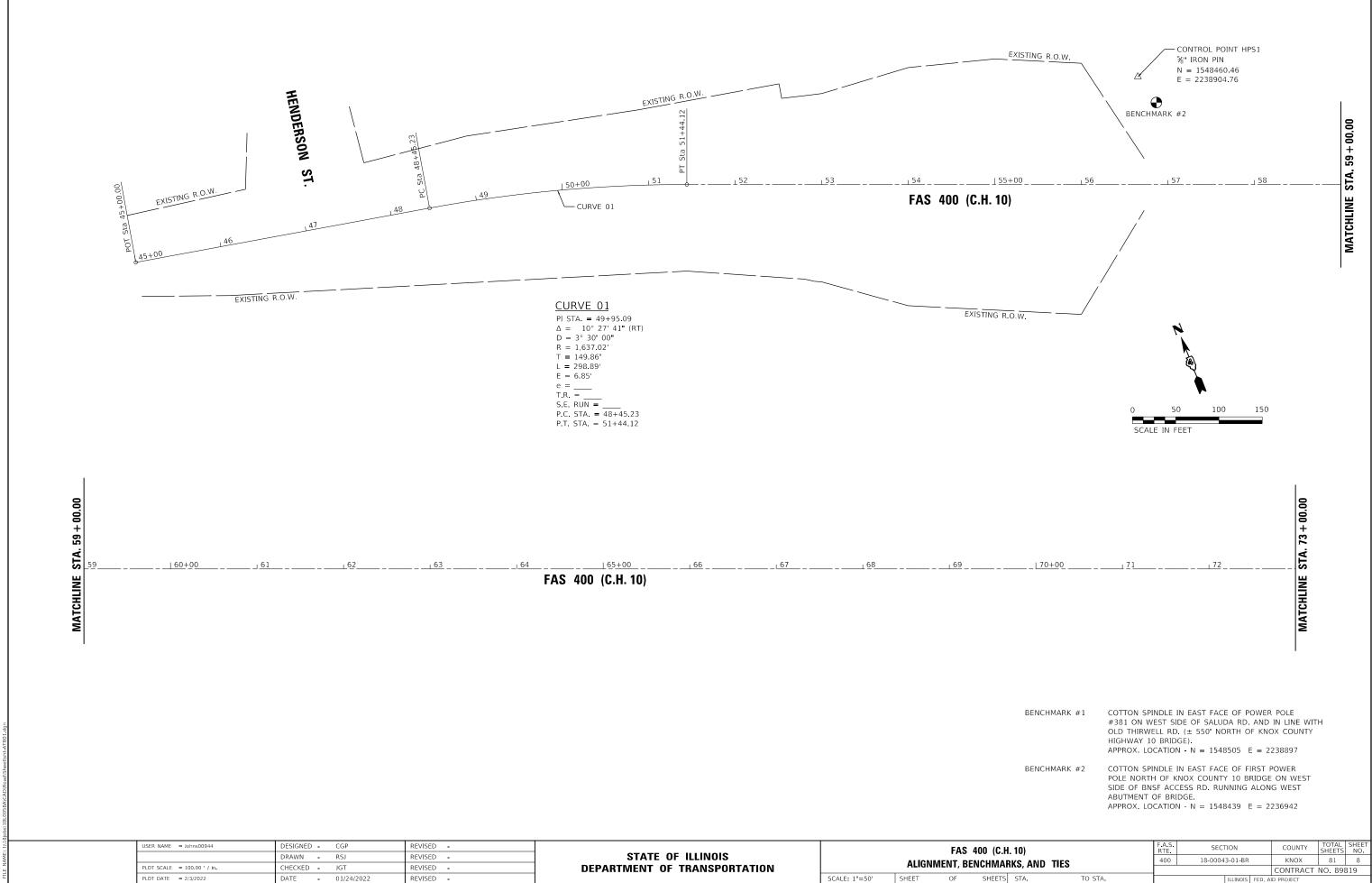


 LAYOUT
 CGP
 05/06/21

 DRAWN
 RSJ
 05/06/21

 REVIEWED
 JGT
 01/24/2022

 MODEL
 JGT
 01/24/2022

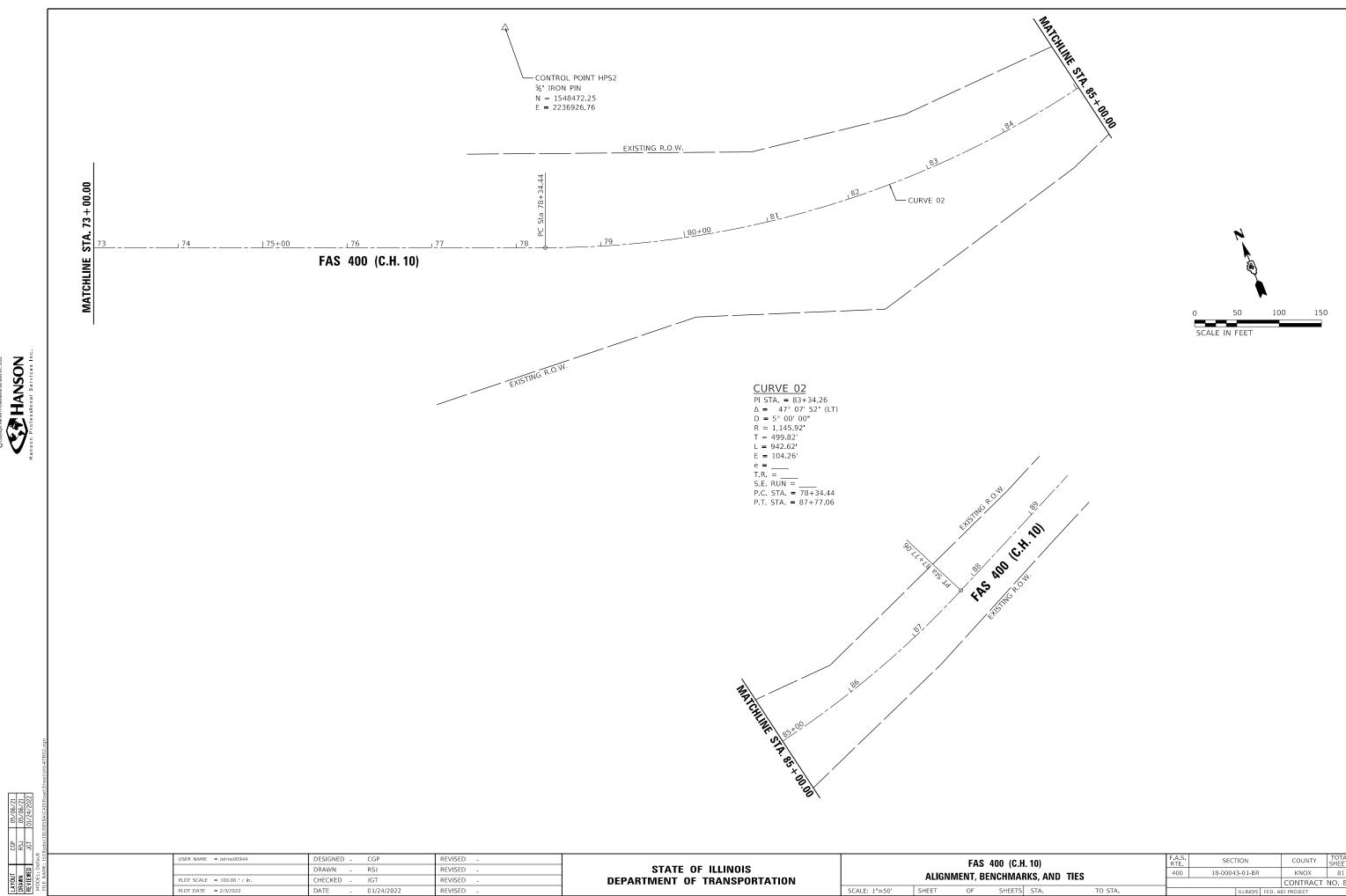


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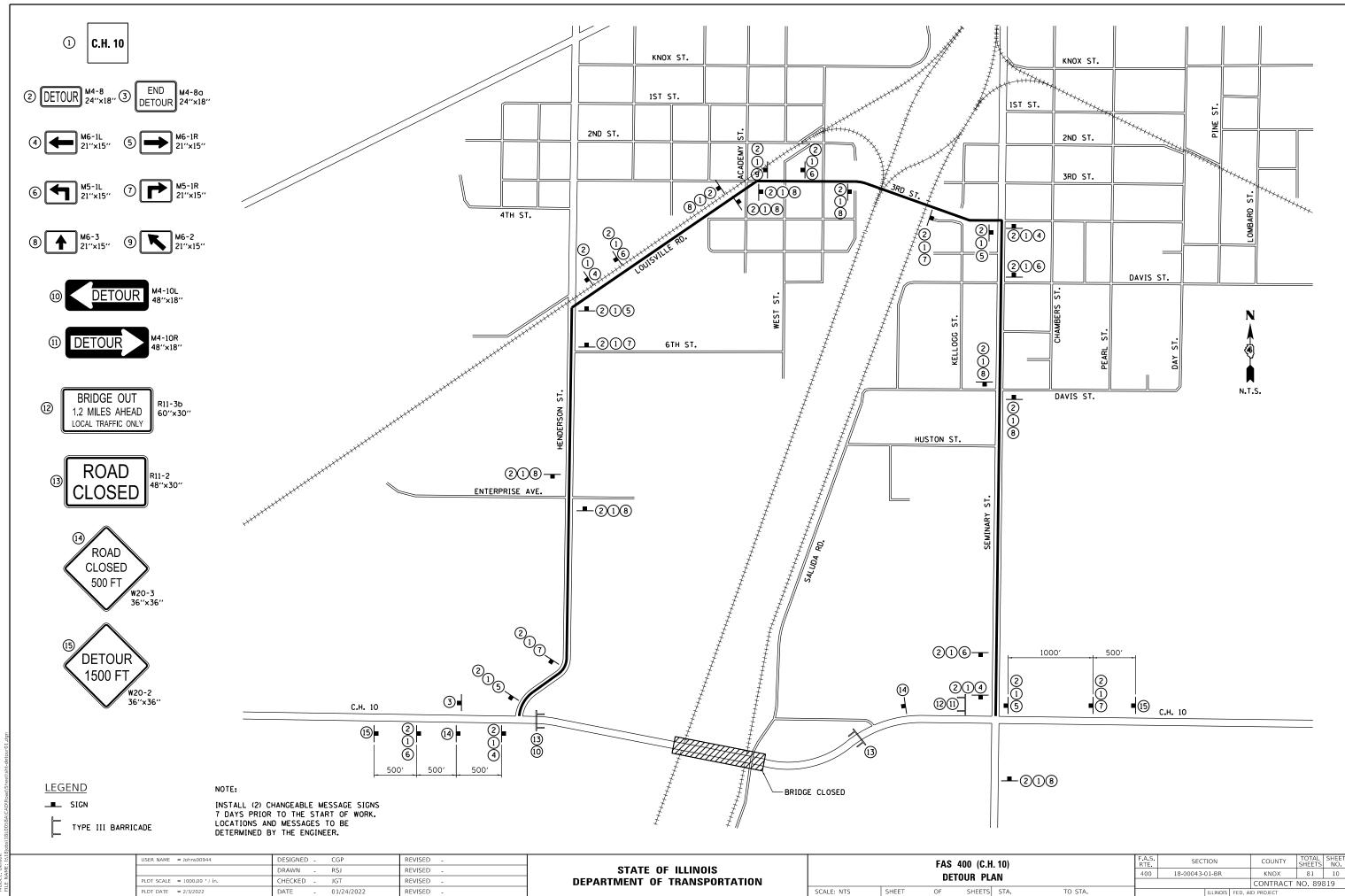
Hanson Professional Services Inc.

05/06/21 05/06/21 01/24/2022 122 Let LAYOUT DRAWN REVIEWED

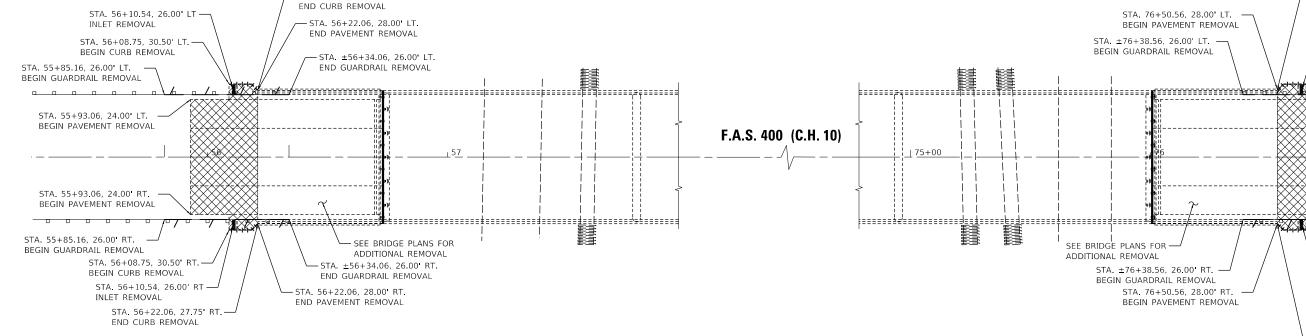
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	DEPARTMENT OF TRANSPORTATION	INIENT, DENGRIVIAN
PLOT DATE = 2/3/2022 DATE - 0/24/2022 REVISED - SCALE: 1"=50' SHEET OF	- SCALE: 1"=50' SHEET	OF SHEETS



C.H. 10)	F.A.S. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.	
ARKS, AND TIES	400	18-0004	3-01-BR	R КNOX 81 9 СОNTRACT NO. 89819			9
							319
TS STA. TO STA.			ILLINOIS	FED, A	ID PROJECT		



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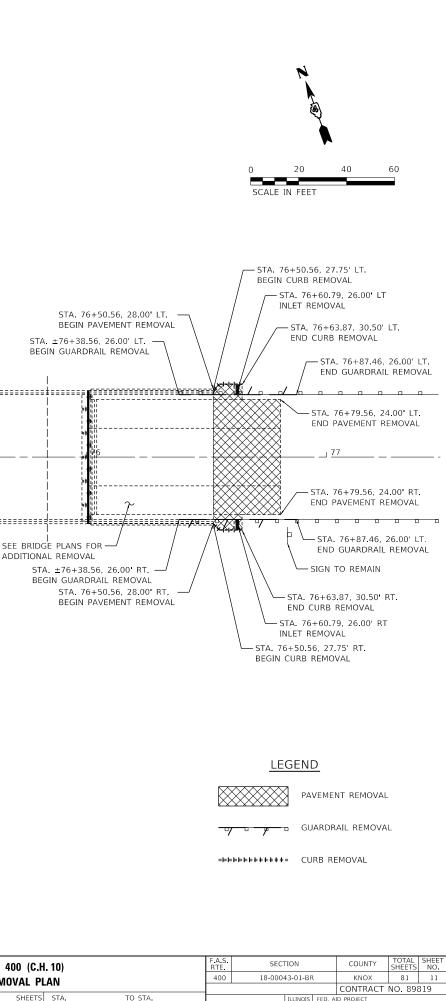


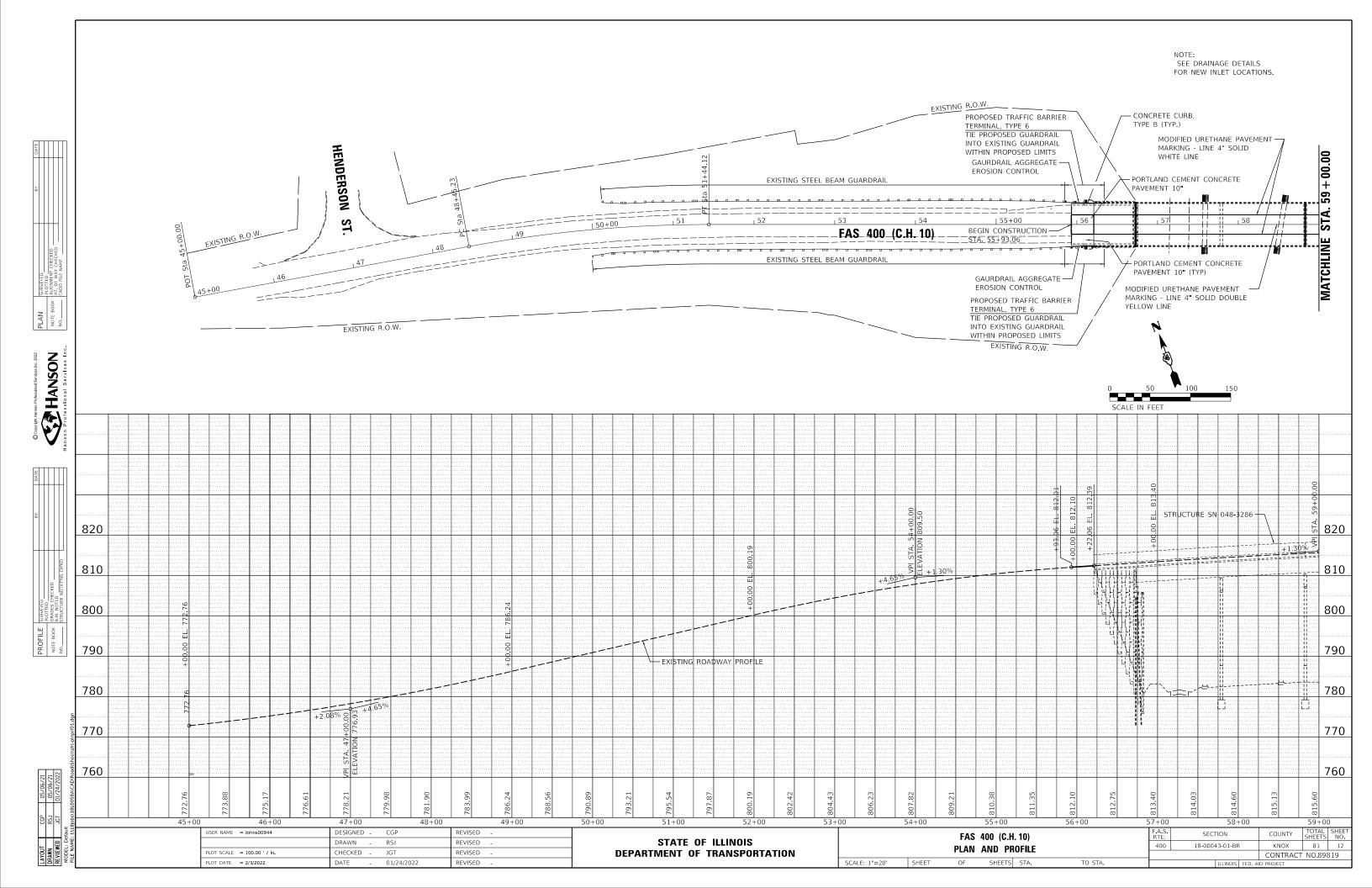
LAYOUT CGP 05/06/21 DRAWN RSJ 05/06/21 REVIEWED JGT 01/24/2022 MODELL Default

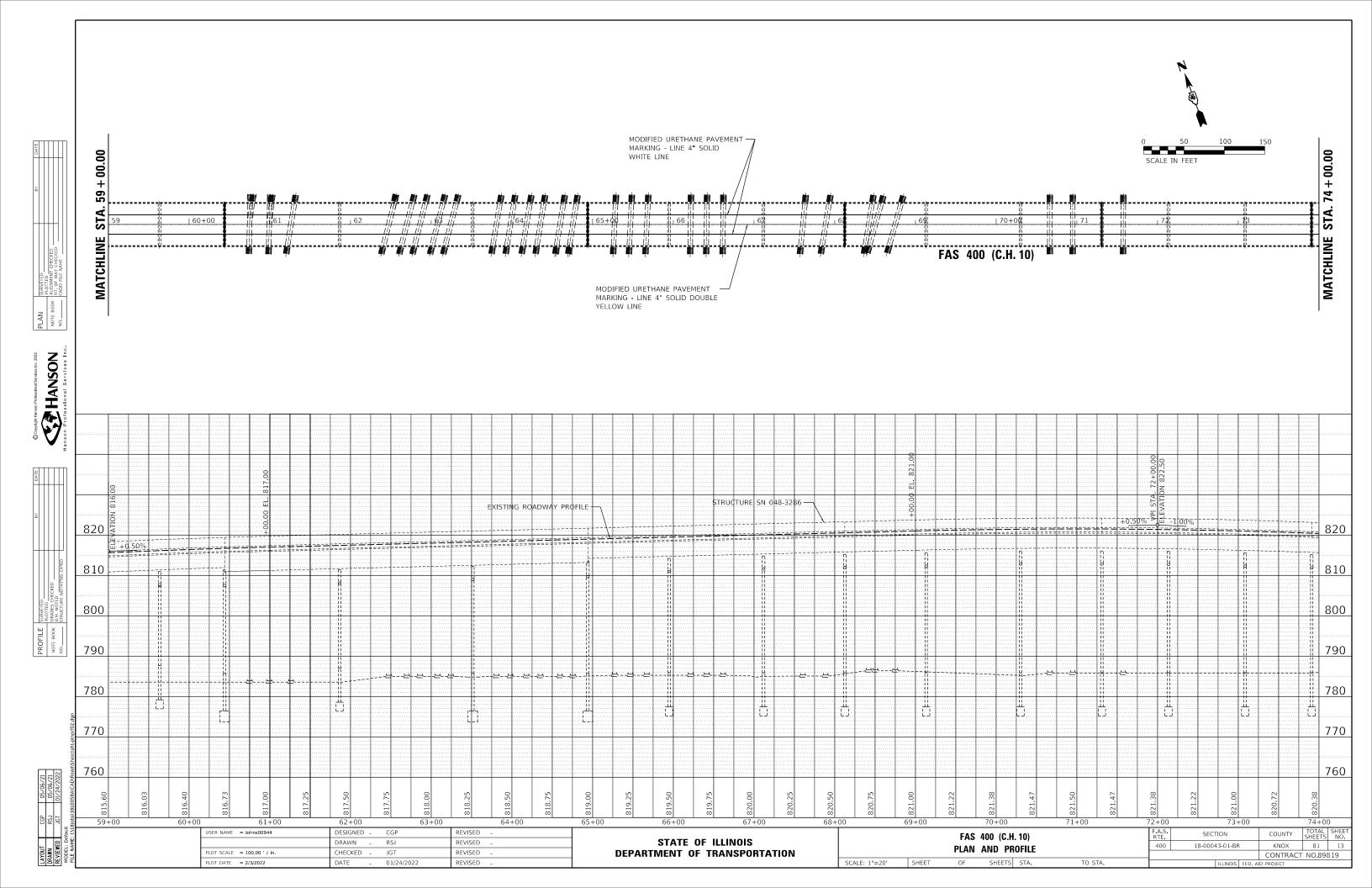
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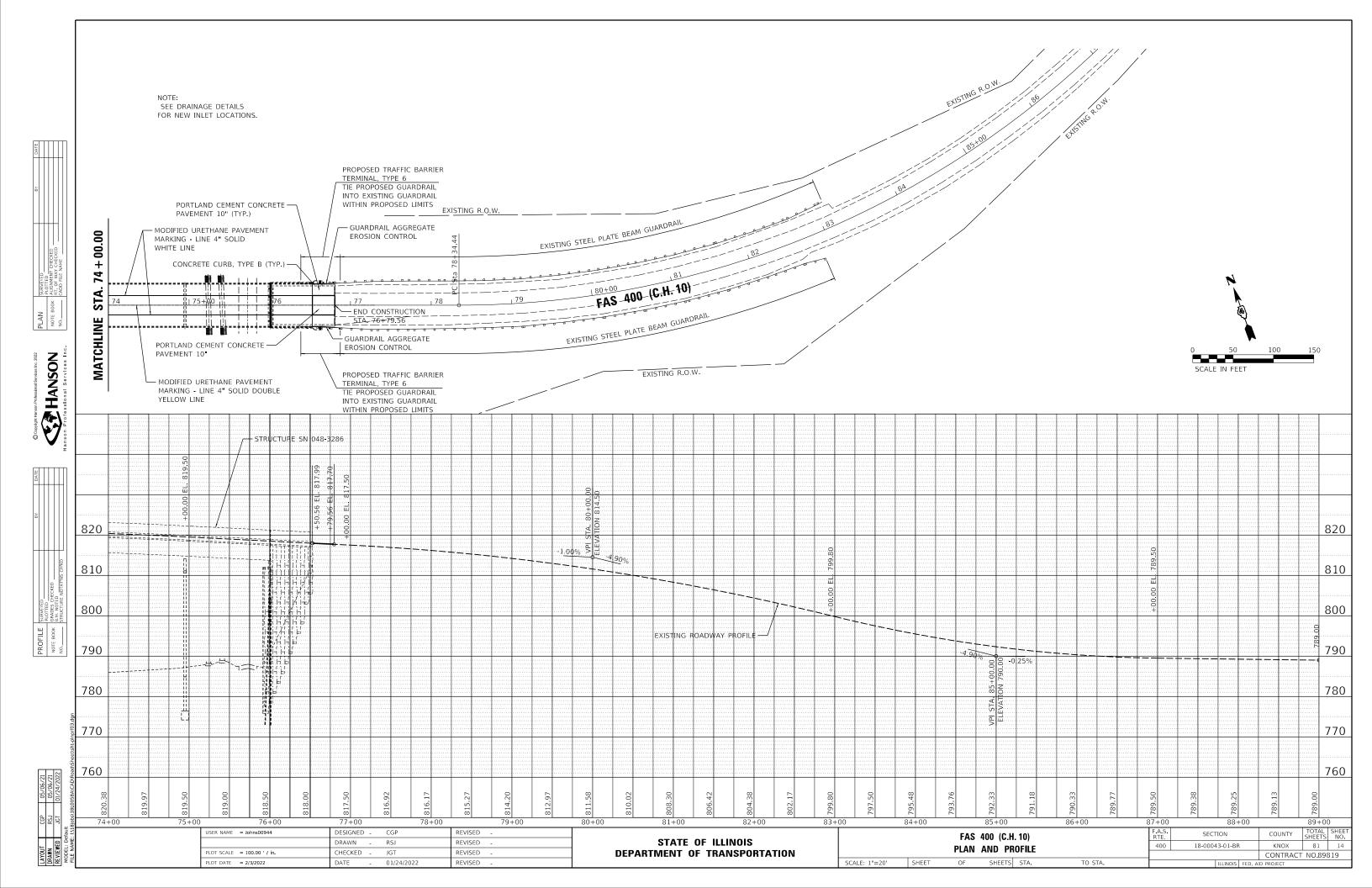
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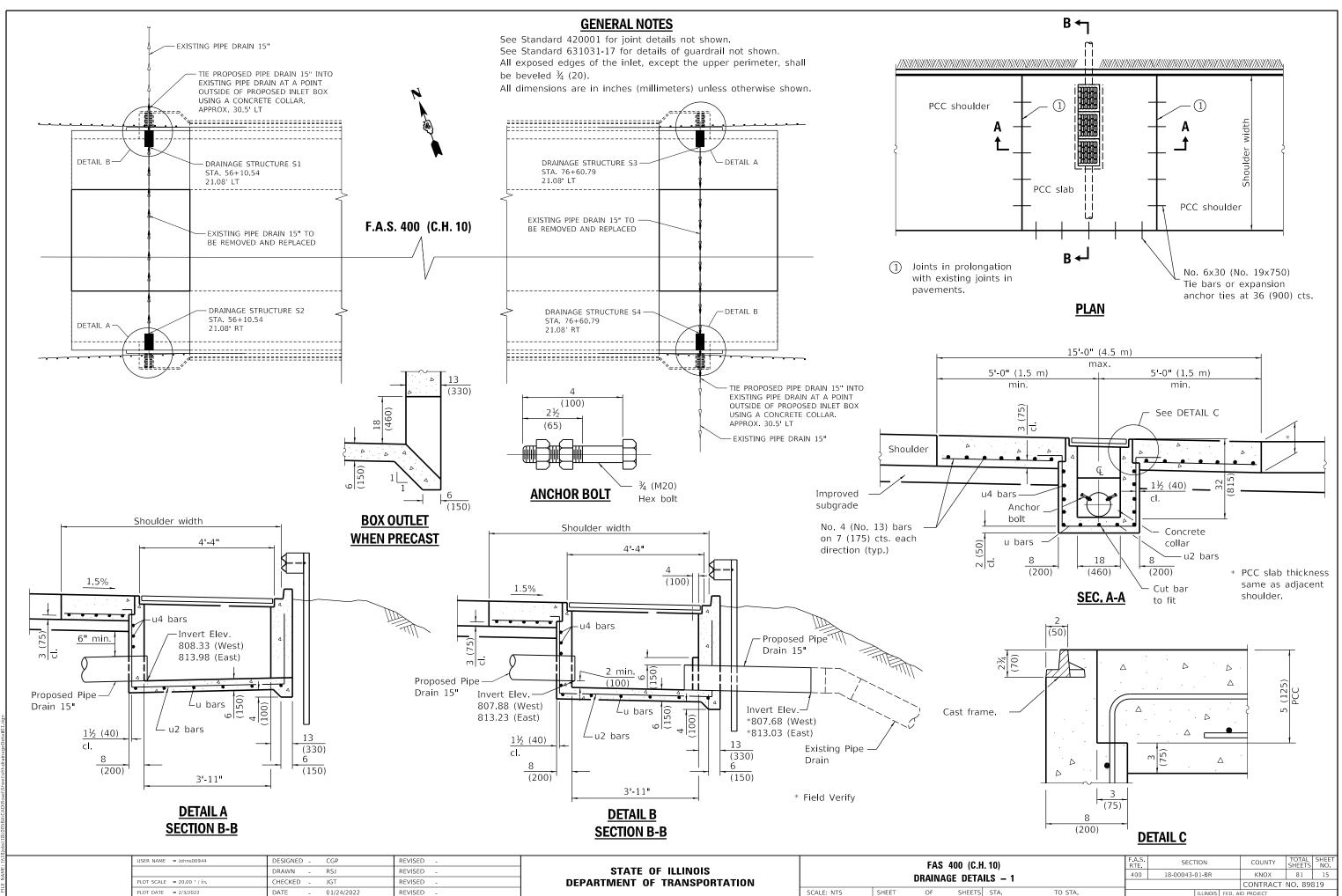
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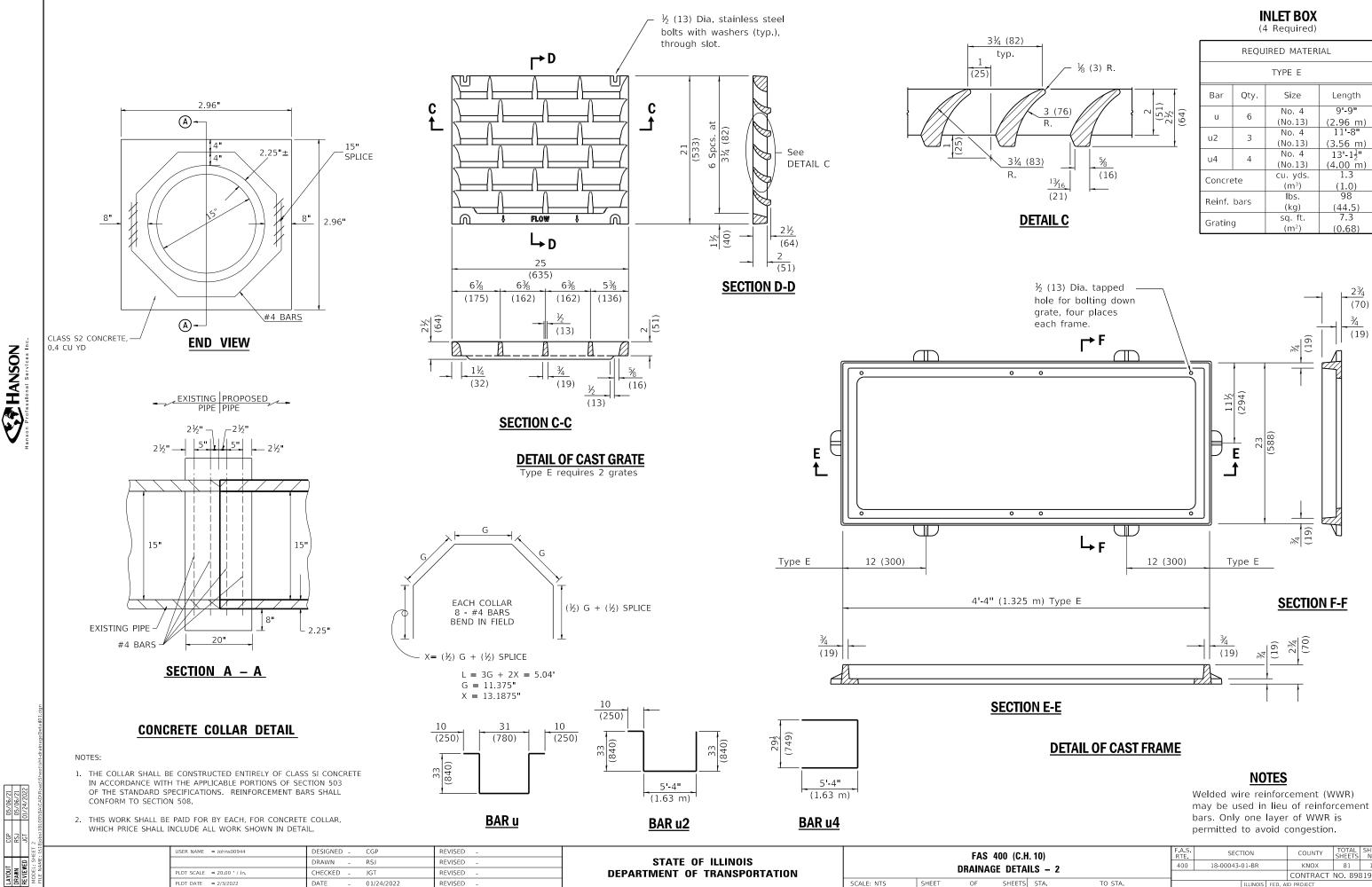




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DEPARTMENT OF TRANSPORTATION

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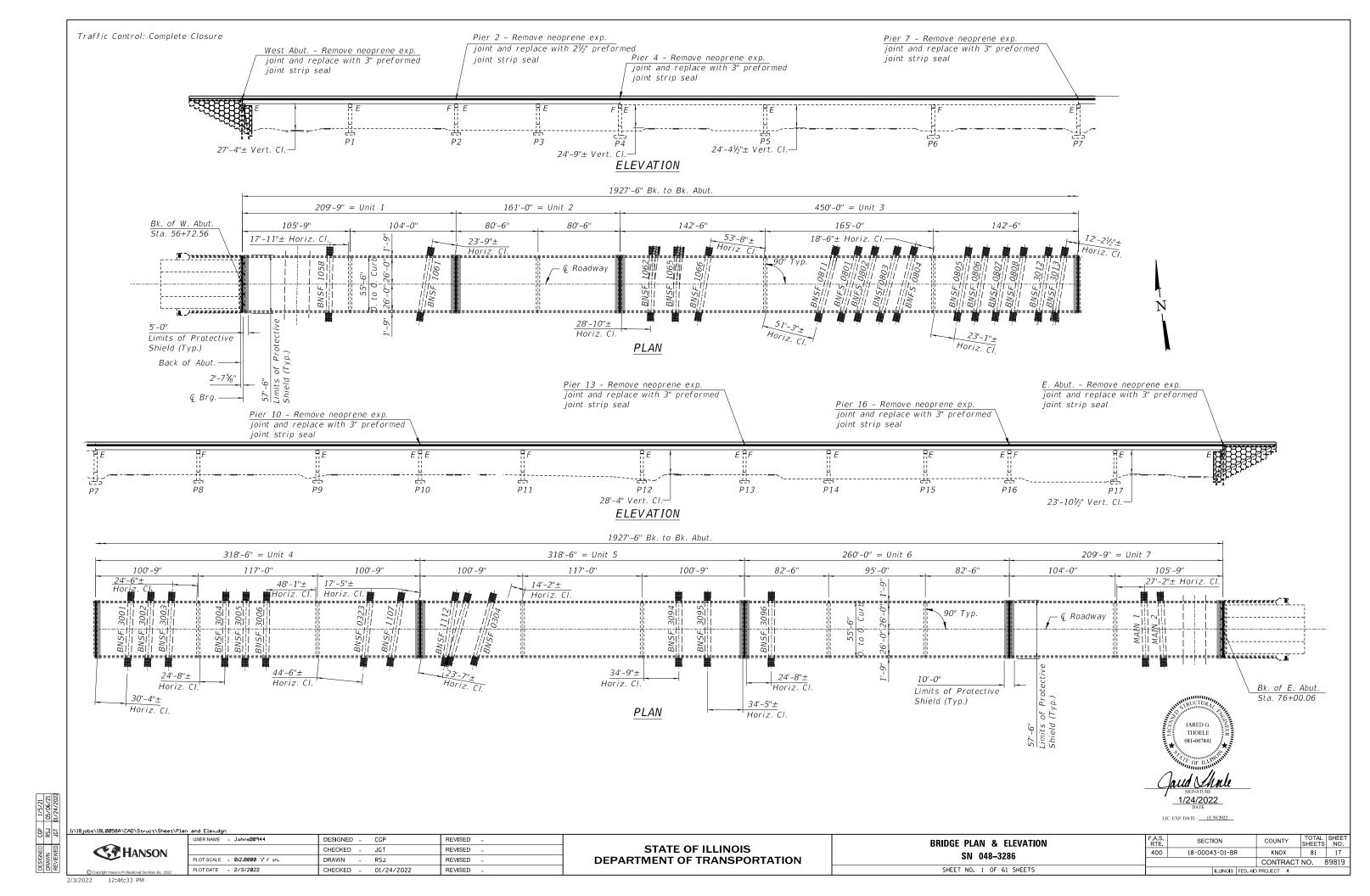




	REQU	IRED MATER	IAL
		TYPE E	
Bar	Qty.	Size	Length
u	6	No. 4	9'-9"
u	0	(No.13)	(2.96 m)
u2 3		No. 4	11'-8"
uz 3		(No.13)	(3.56 m)
u4	4	No. 4	13'-1 1 "
u4	4	(No.13)	(4.00 m)
Concre	oto	cu. yds.	1.3
Concre	ete	(m³)	(1.0)
Poinf	barc	lbs.	98
Reinf. bars		(kg)	(44.5)
Gratin	2	sq. ft.	7.3
Grating	J	(m²)	(0.68)

SHEET

C.H. 10) FAILS — 2			F.A.S. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
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GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

INDEX OF SHEETS

- General Plan and Elevation
- General Data 2
- 3-4 Joint Replacement Details
- Preformed Joint Strip Seal 5
- 6-11 Bridge Deck Repairs
- Bridge Approach Slab & Backwall Removal 12

1'-9''

3'-3''

14'-0" Shoulder

- 13-14 Bridge Approach Slab Details
- 15 Abutment Backwall
- 16-26 Pier Repairs
- Plan and Elevation (MSE Wall) 27-28
- Sections and Details (MSE Wall) 29
- 30-61 Existing Plans

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details effecting 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.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

The Structural Steel shall be cleaned and painted as specified in the plans and the Special Provisions.

Only Structural Steel is to be painted. All other surfaces shall be protected from being painted. All paint and overspray shall be removed at the contractor's expense.

Color of the finish coat shall be Interstate Green, Munsell No. 7.5G 4/8.

Color and painting of the existing structural steel shall be as specified in the Special Provisions for "Cleaning and Painting Existing Steel Structures". All structural steel, on all girder ends, bearings and end cross frames, within 5' (measured along the beam) of the joints shall be cleaned by SSPC-SP10 - Near White Metal Blast Cleaning to remove all rust, dirt, debris and paint and then zone painted. The existing plans indicate a basic lead silica chromate paint system was used; therefore, containment and disposal of lead paint cleaning residues will be required.

Remove and replace any parts of drainage system that are damaged or not functioning properly. Regrade locations of drainage outlets to drain away from piers as needed.

The existing name plate shall be cleaned and reinstalled at the existing location. Cost included with Concrete Removal.

Area of deck repairs shown are estimated. The Engineer shall show actual locations of deck slab repairs on as-built plans.

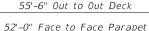
Protective coat shall be applied to the approach slab, approach slab barriers and deck repairs.

Units 1-3 have a full depth reinforced concrete deck. Units 4-7 have stav-in-place reinforced concrete deck panel forms with a concrete overlay on top.

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	46.8
Protective Shield	Sq. Yd.	463
Concrete Structures	Cu. Yd.	31.8
Concrete Superstructure	Cu. Yd.	45.7
Bridge Deck Grooving	Sq. Yd.	567
Protective Coat	Sq. Yd.	12,993
Concrete Superstructure (Approach Slab)	Cu. Yd.	289.2
Reinforcement Bars, Epoxy Coated	Pound	114,790
Preformed Joint Strip Seal	Foot	432
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	3,690
Epoxy Crack Injection	Foot	26
Cleaning Bridge Scuppers and Downspouts	Each	56
Retaining Wall Removal	Sq. Ft.	3,690
Bridge Drainage System Repair	Foot	100
Approach Slab Removal	Sq. Yd.	642
Containment and Disposal of Lead Paint Cleaning Residues No. 1	L. Sum	1
Cleaning and Painting Steel Bridge No. 1	L. Sum	1
Structural Repair of Concrete	Sq. Ft.	814
(Depth Equal to or Less Than 5")	59.11.	014
Deck Slab Repair (Partial)	Sq. Yd.	407
Temporary Shoring and Cribbing	Each	16

* Estimated

12'-0" Lane	12'-0" Lane			
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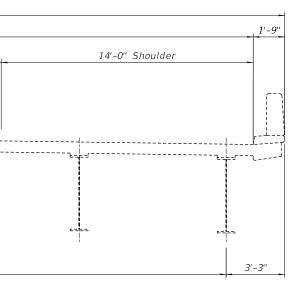
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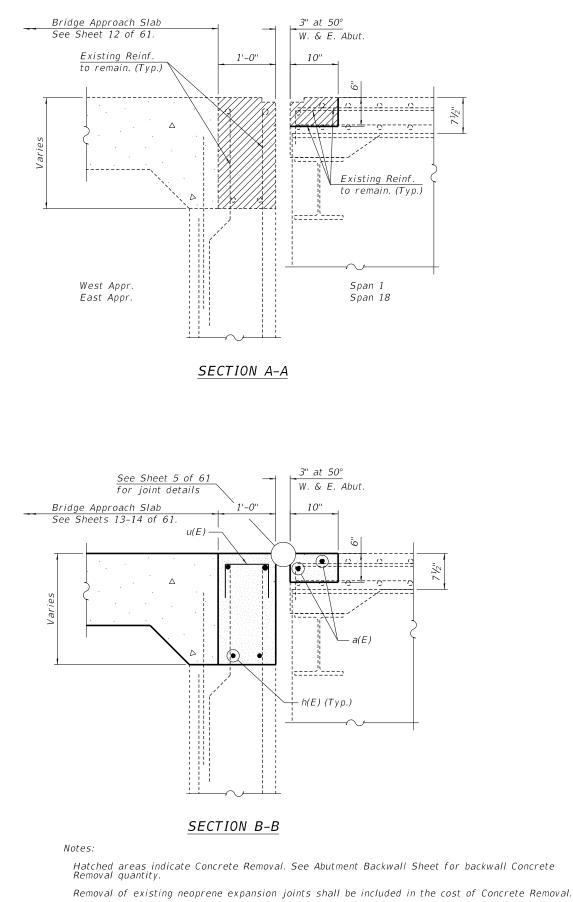
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6 Beam Spa. at 8'-2" = 49'-0"

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TOTAL BILL OF MATERIAL

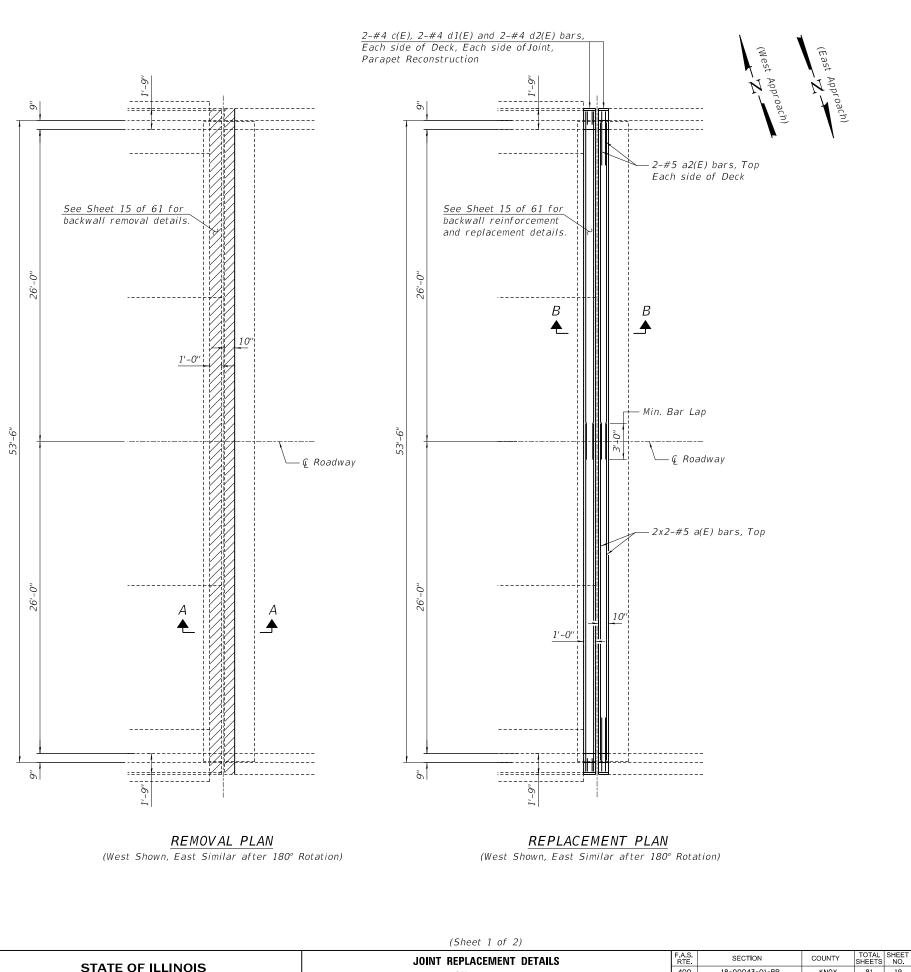




Any steel anchoring studs encountered in the neoprene joint removal area shall be cut off flush with existing concrete. Cost to be included in the bid price for Concrete Removal.

See Sheet 4 of 61 for Partial Cross Section and Bill of Material.

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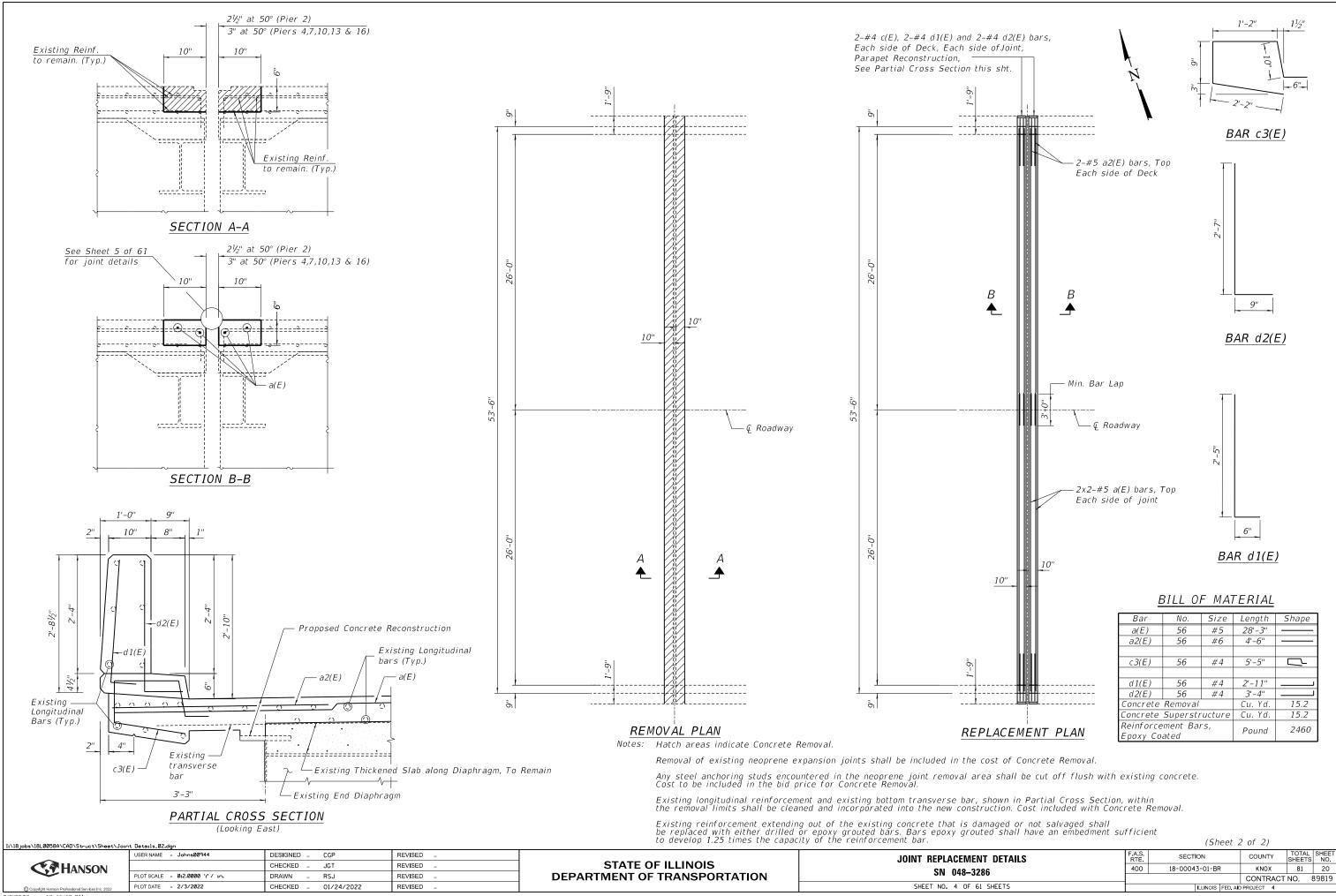


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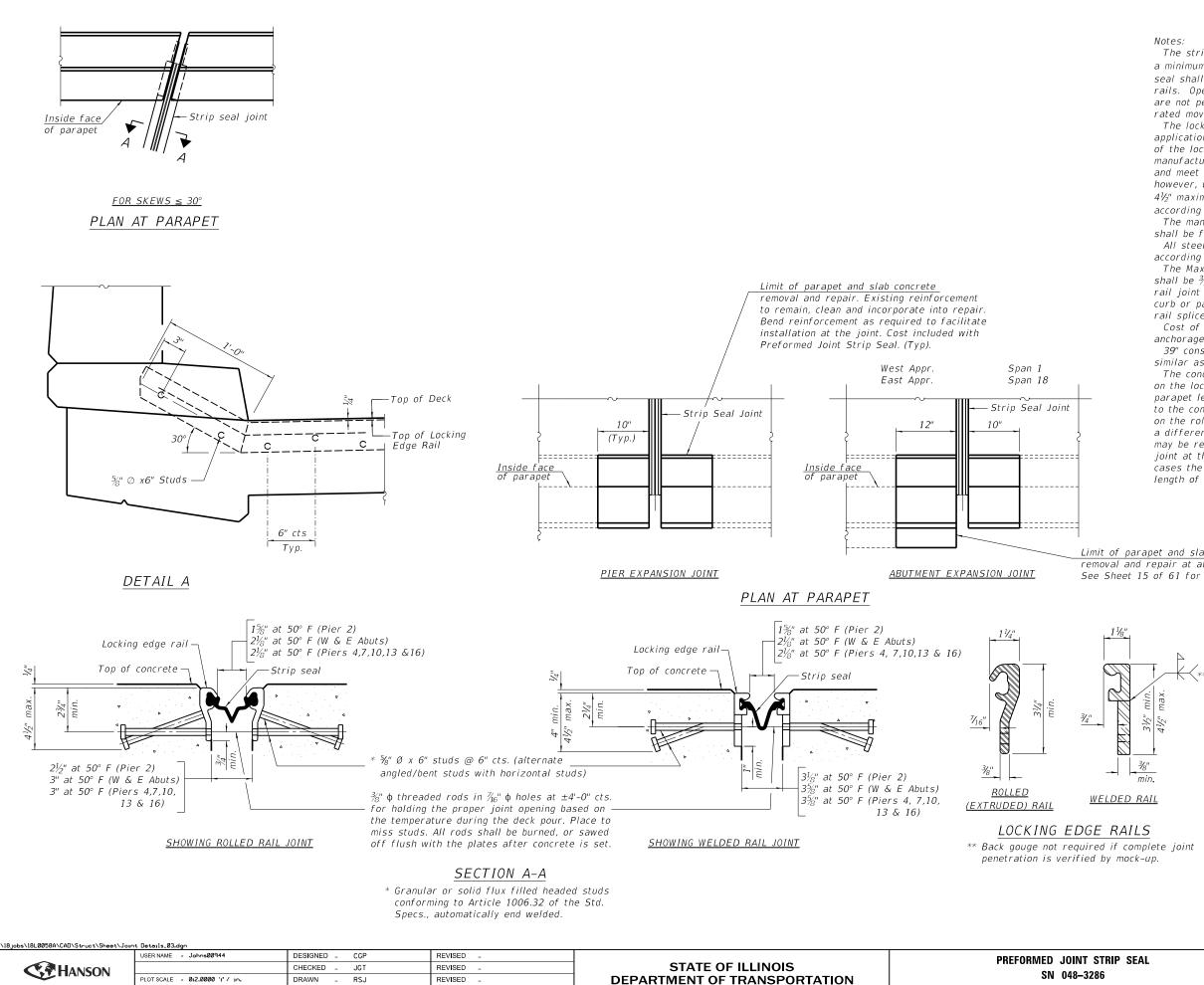


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CGP 1/5/21 RSJ 05/06/21 JGT 01/24/2022

SN 048-3 SHEET NO. 5 OF 6

The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the $4\frac{1}{2}$ " maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

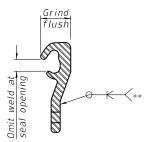
The Maximum space between locking edge rail segments shall be $\frac{3}{16}$ " and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

39" constant slope barrier shown, 44" constant slope barrier similar as noted.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

Limit of parapet and slab concrete removal and repair at abutment backwall. See Sheet 15 of 61 for deatails.



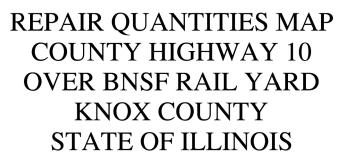
LOCKING EDGE RAIL SPLICE

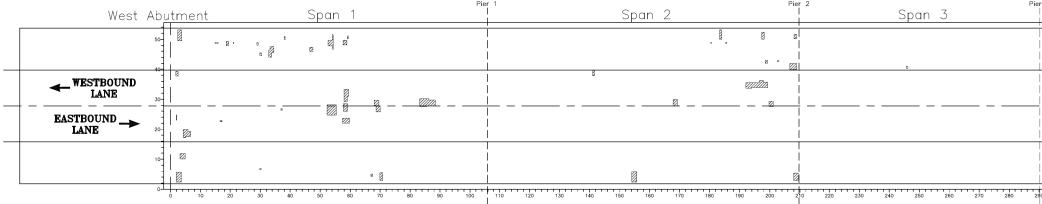
The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	432

STRIP SEAL		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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280			CONTRACT	NO. 8	39819
61 SHEETS	ILLINOIS FED AID PROJECT 4				





REPAIR QUANTITIES SPANS 1-4 - BRIDGE DECK

	Percent	Area (S.F.)	Area (S.Y.)
ZZZZZZZ PATCHING	0.7	132.6	15
FULL DEPTH PATCHI	NG –	-	

REPAIR QUANTITIES TOTAL - BRIDGE DECK

22

	Percent	Area (S.F.)	Area (S.Y.)
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	3.8	3,662.6	407
FULL DEPTH PATCHIN	1G –	-	

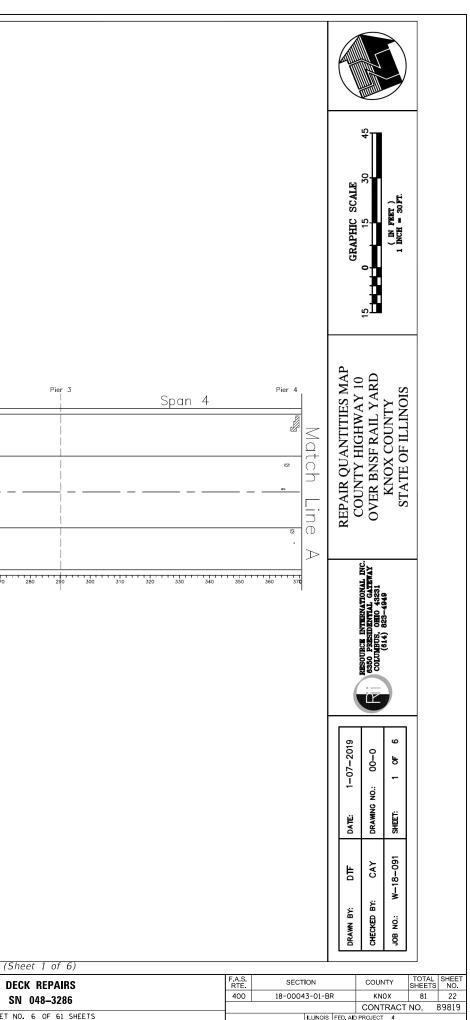
Figure 19

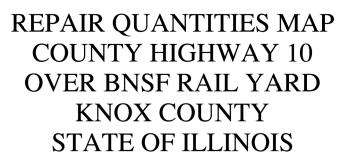
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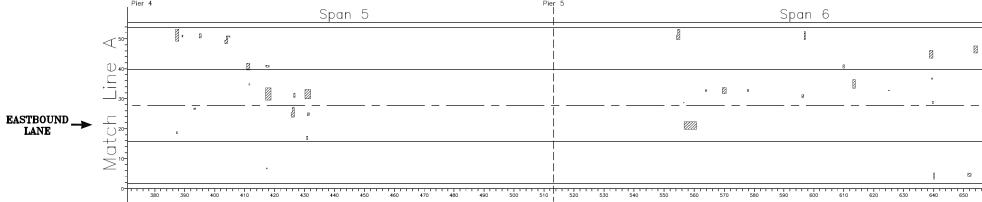
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REPAIR QUANTITIES SPANS 5-6 - BRIDGE DECK

	Percent	Area (S.F.)	Area (S.Y.)
PATCHING	0.4	67.0	7
FULL DEPTH PATCH	ING –	-	

REPAIR QUANTITIES TOTAL - BRIDGE DECK

	Percent	Area (S.F.)	Area (S.Y.)
ZZZZZZZ PATCHING	3.8	3,662.6	407
FULL DEPTH PATCHIN	1G –	-	

Figure	20
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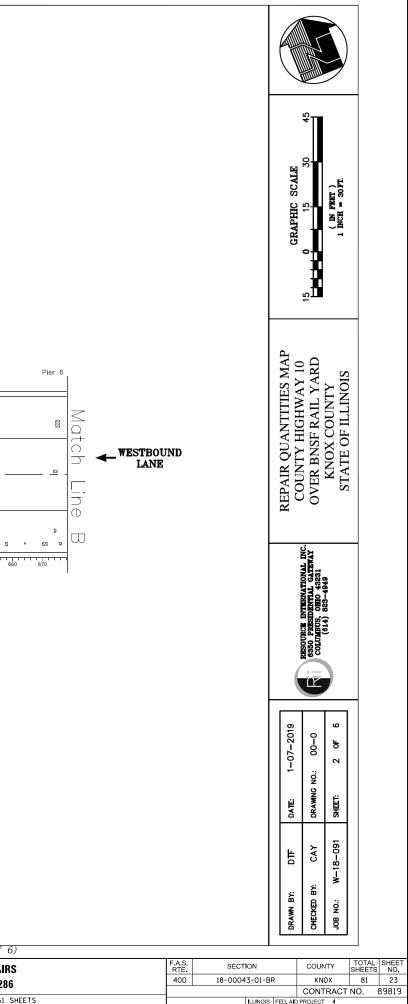
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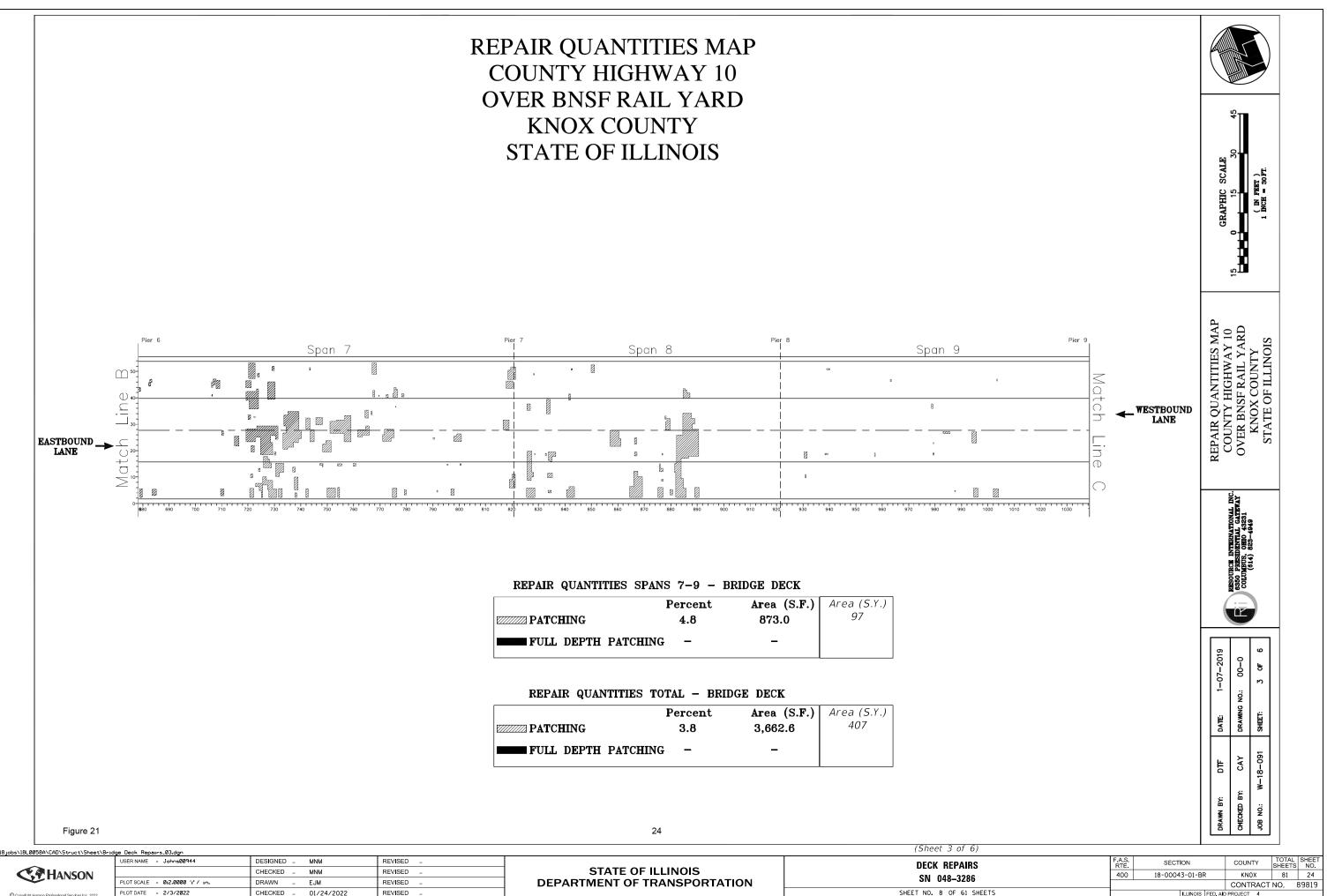
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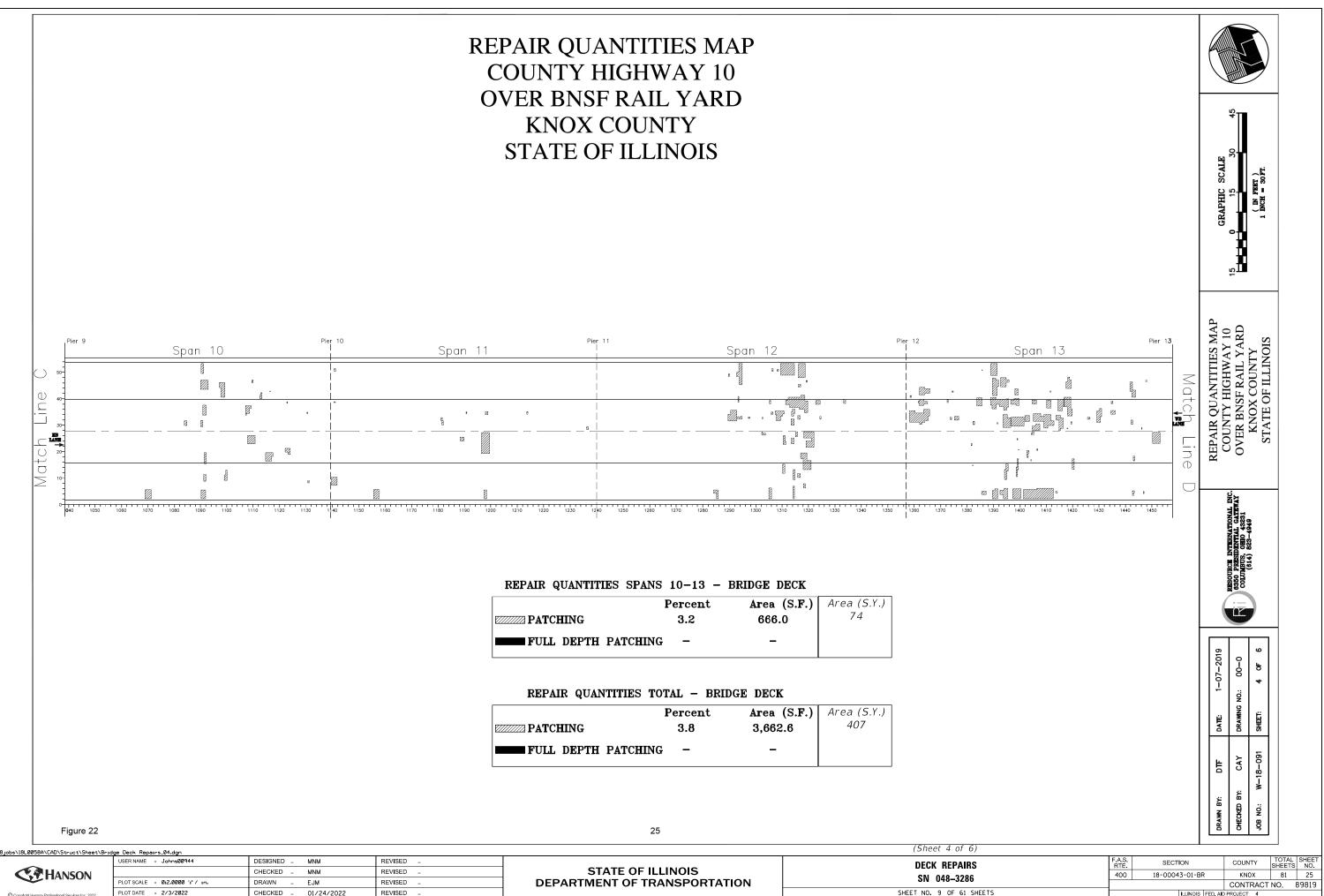




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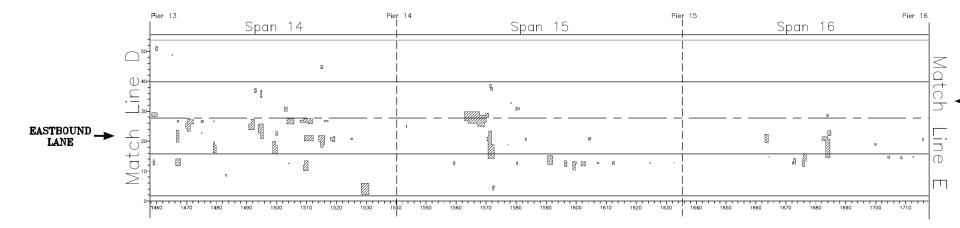


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REPAIR QUANTITIES MAP COUNTY HIGHWAY 10 OVER BNSF RAIL YARD **KNOX COUNTY** STATE OF ILLINOIS



REPAIR QUANTITIES SPANS 14-16 - BRIDGE DECK

	Percent	Area (S.F.)	Area (S.Y.)
PATCHING	1.3	165.2	18
FULL DEPTH PATCHI	ING –	-	

REPAIR QUANTITIES TOTAL - BRIDGE DECK

	Percent	Area (S.F.)	Area (S.Y.)
ZZZZZZ PATCHING	3.8	3,662.6	407
FULL DEPTH PATCHI	NG –	-	

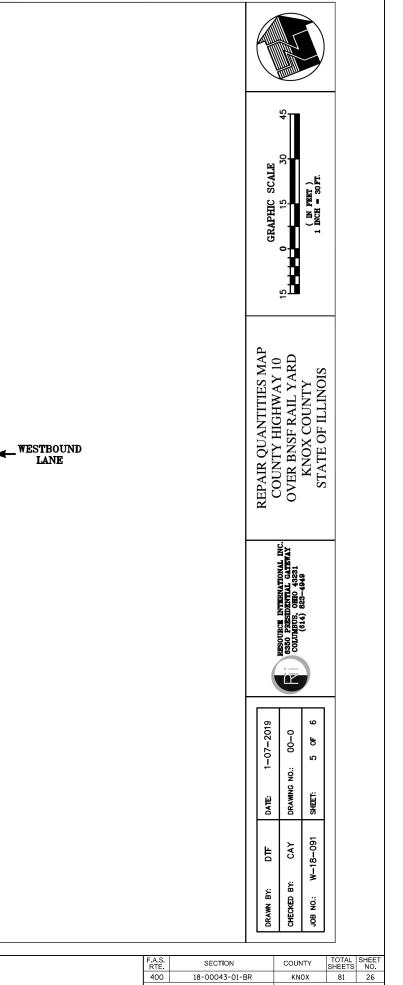
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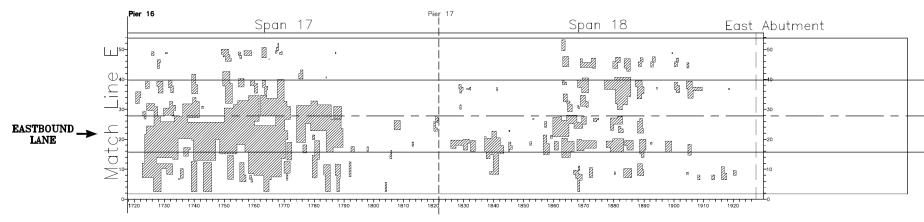


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ILLINOIS FED. AID PROJECT 4

CONTRACT NO. 89819

REPAIR QUANTITIES MAP COUNTY HIGHWAY 10 OVER BNSF RAIL YARD KNOX COUNTY STATE OF ILLINOIS



REPAIR QUANTITIES SPANS 17-18 - BRIDGE DECK

	Percent	Area (S.F.)	Area (S.Y.)
PATCHING	16.8	1,758.7	196
FULL DEPTH PATCHIN	1G –	-	

REPAIR QUANTITIES TOTAL - BRIDGE DECK

27

	Percent	Area (S.F.)	Area (S.Y.)
ZZZZZZZ PATCHING	3.8	3,662.6	407
FULL DEPTH PATCH	ING –	-	

Figure 24

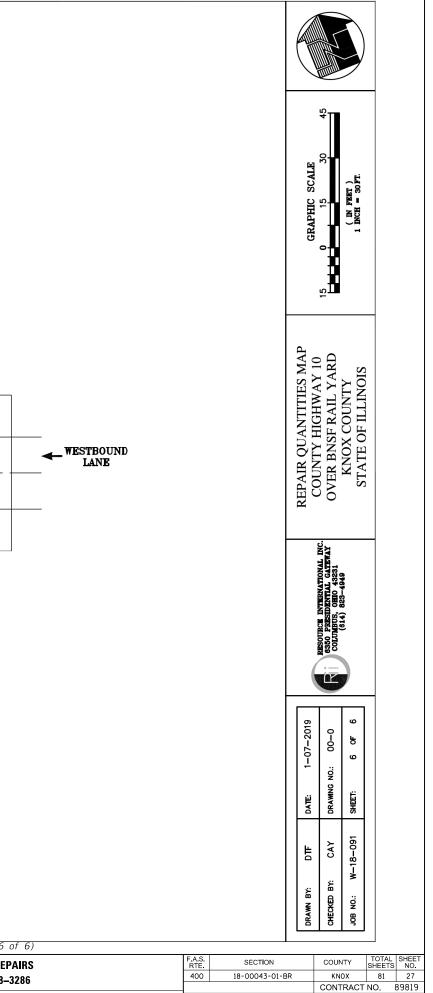
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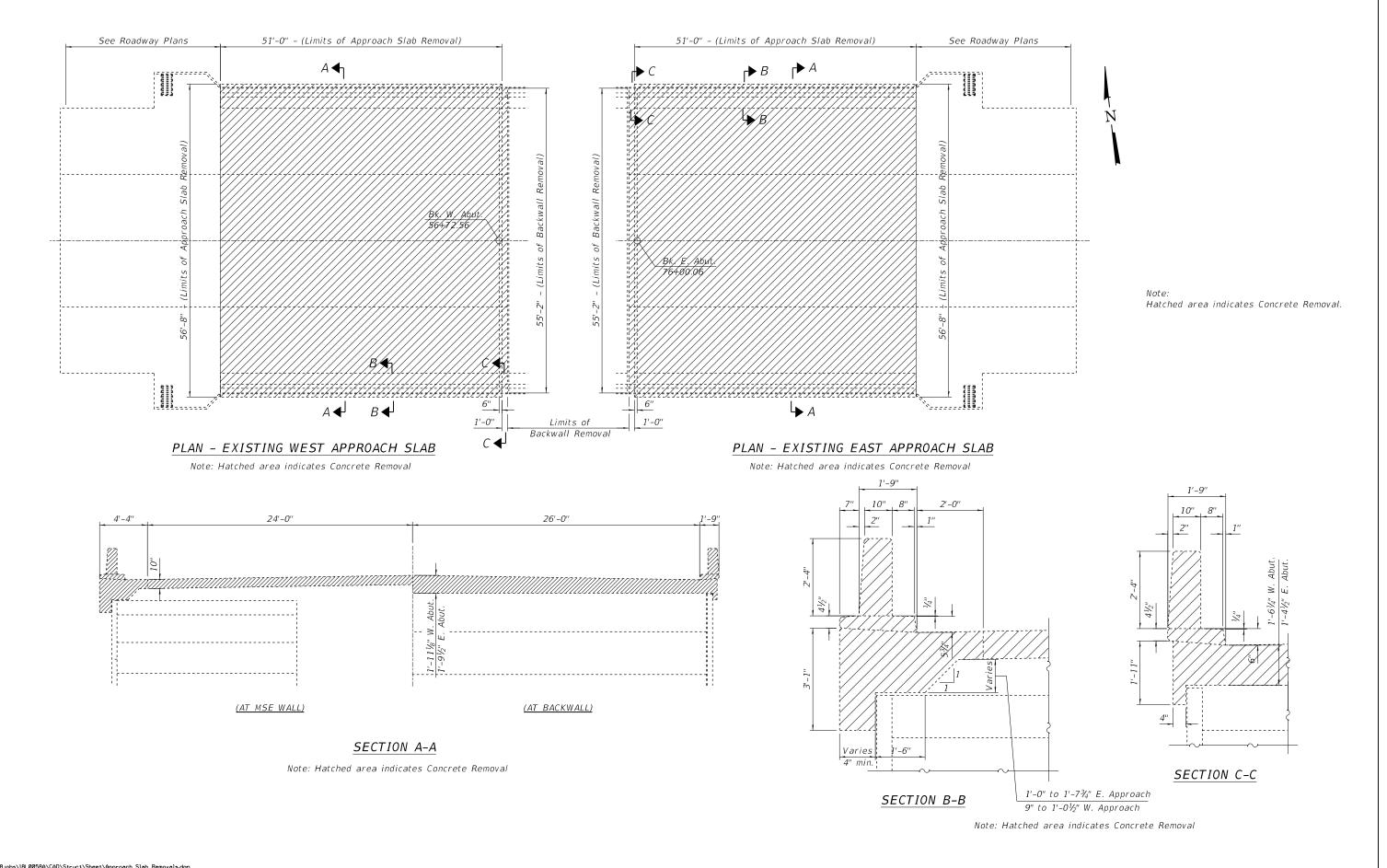
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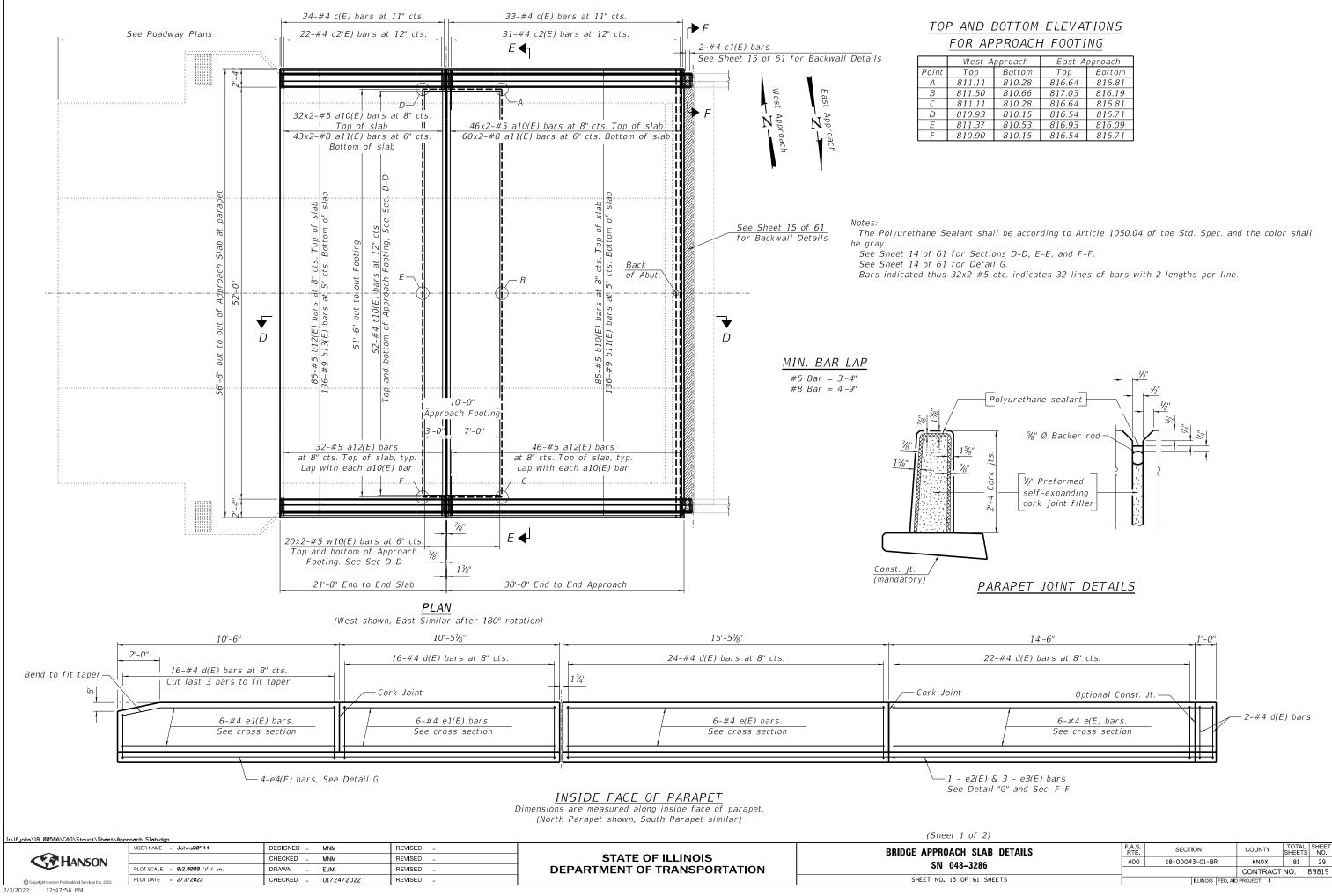


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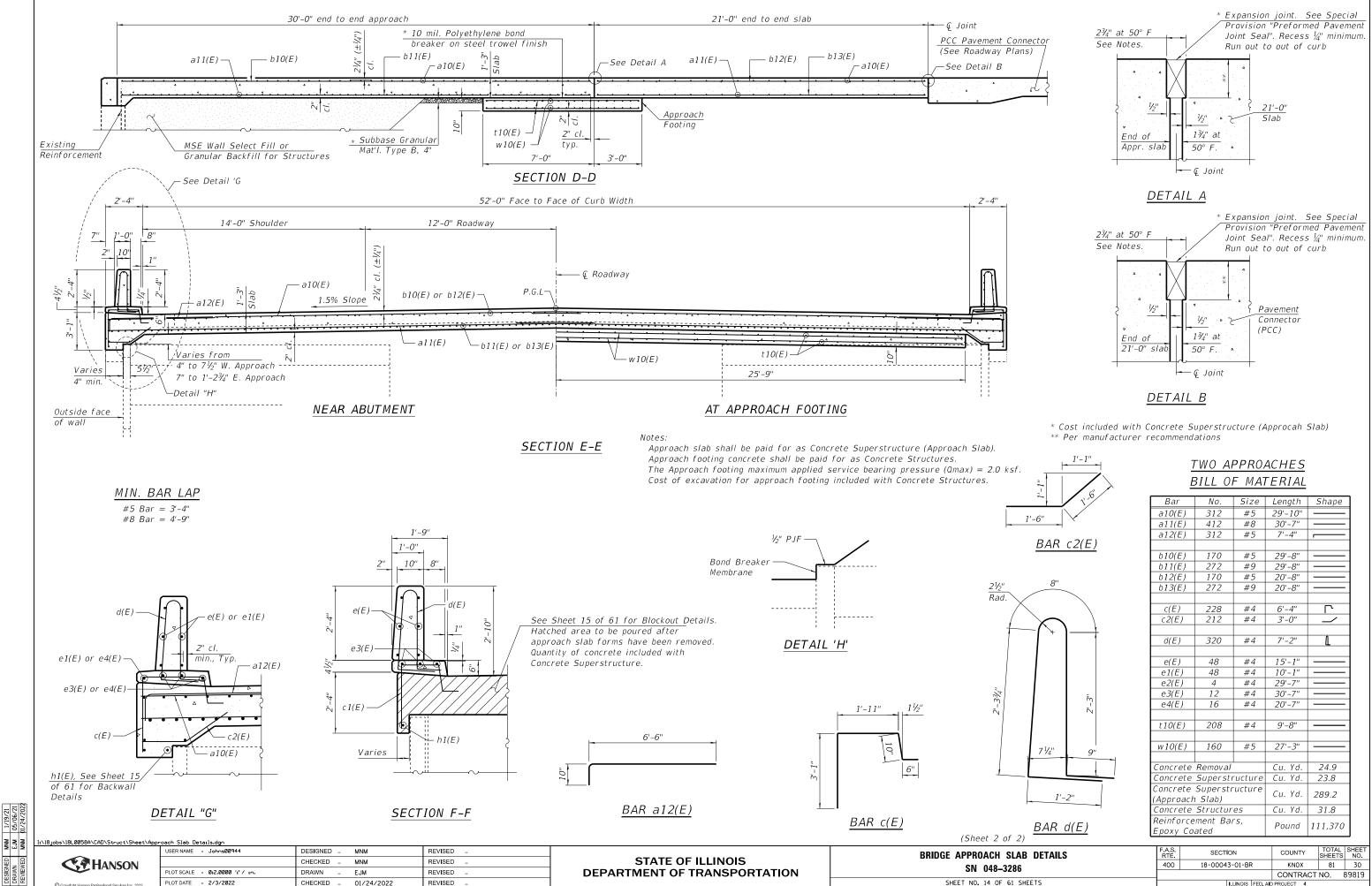


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.93	810.15	816.54	815.71
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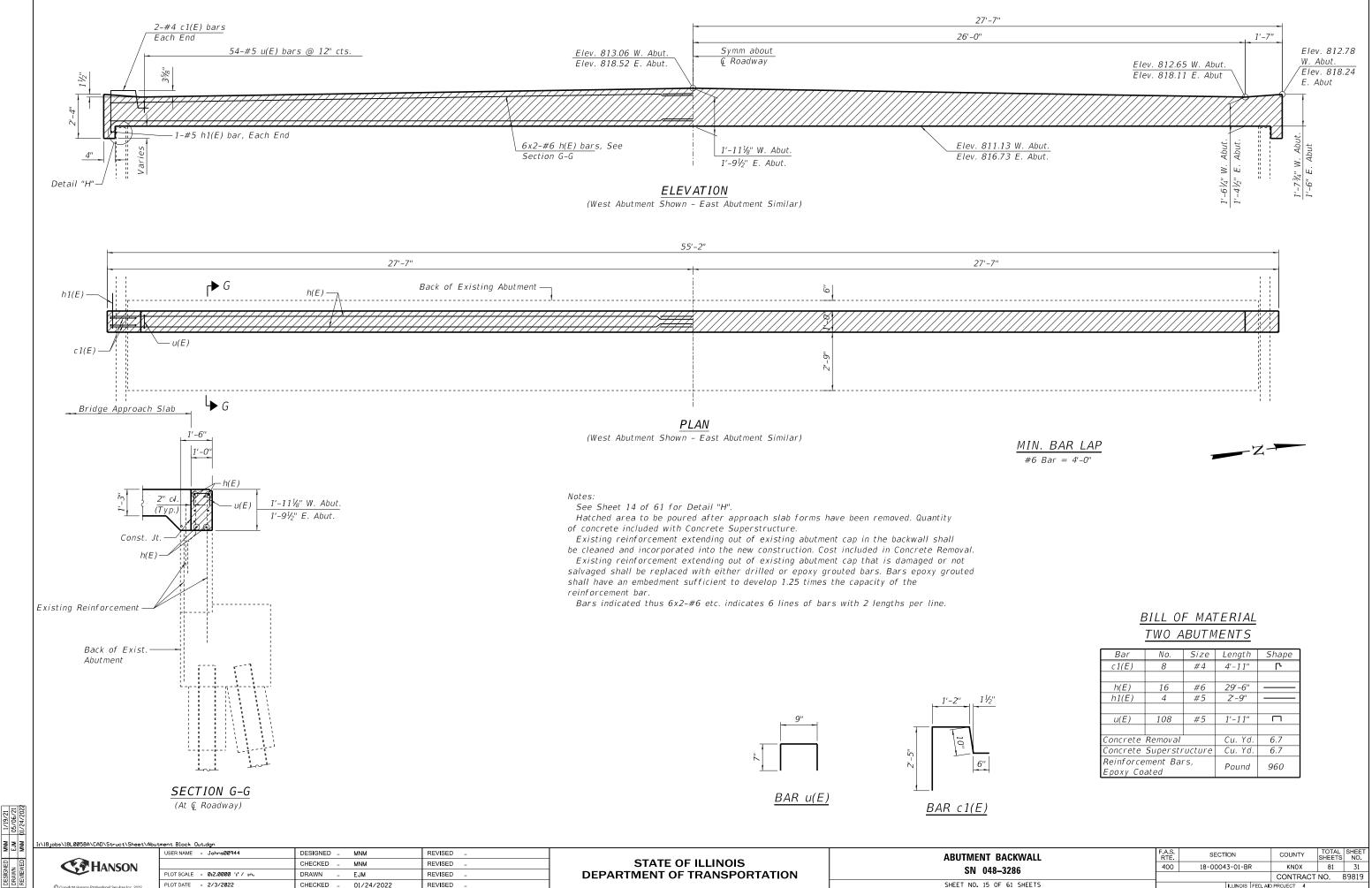
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	a10(E,)	312	#5	29'-10"	-		
	a11(E,)	412	#8	30'-7"	-		
	a12(E,)	312	#5	7'-4"	-		•
L								
	b10(E)		170	#5	29'-8''	-		•
	b11(E)	_	272	#9	29'-8''	-		•
	b12(E)	_	170	#5	20'-8''	-		•
L	b13(E)		272	#9	20'-8"	-		•
	a(Г)	_	220	#4	CL 411			
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⊢	c2(E)	-	212	#4	3'-0"			-
	d(E)		320	#4	7'-2"		L	
╞	e(E)	+	48	#4	15'-1"	-		
	e1(É)		48	#4	10'-1"	-		
	e2(E)		4	#4	29'-7"	- 1		
	e3(E)		12	#4	30'-7"	-		
_	e4(E)		16	#4	20'-7"	-		•
	t10(E)		208	#4	9'-8"	-		
	w10(E)	160	#5	27'-3"	-		
-	oncrei		Removal		Cu. Yd.		24.9	-
			Superstr	ucture	Cu. Yd.	-	23.8	
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200					CONTRACT	NO.	89819
61 SHEETS	ILLINOIS FED. AID PROJECT 4						

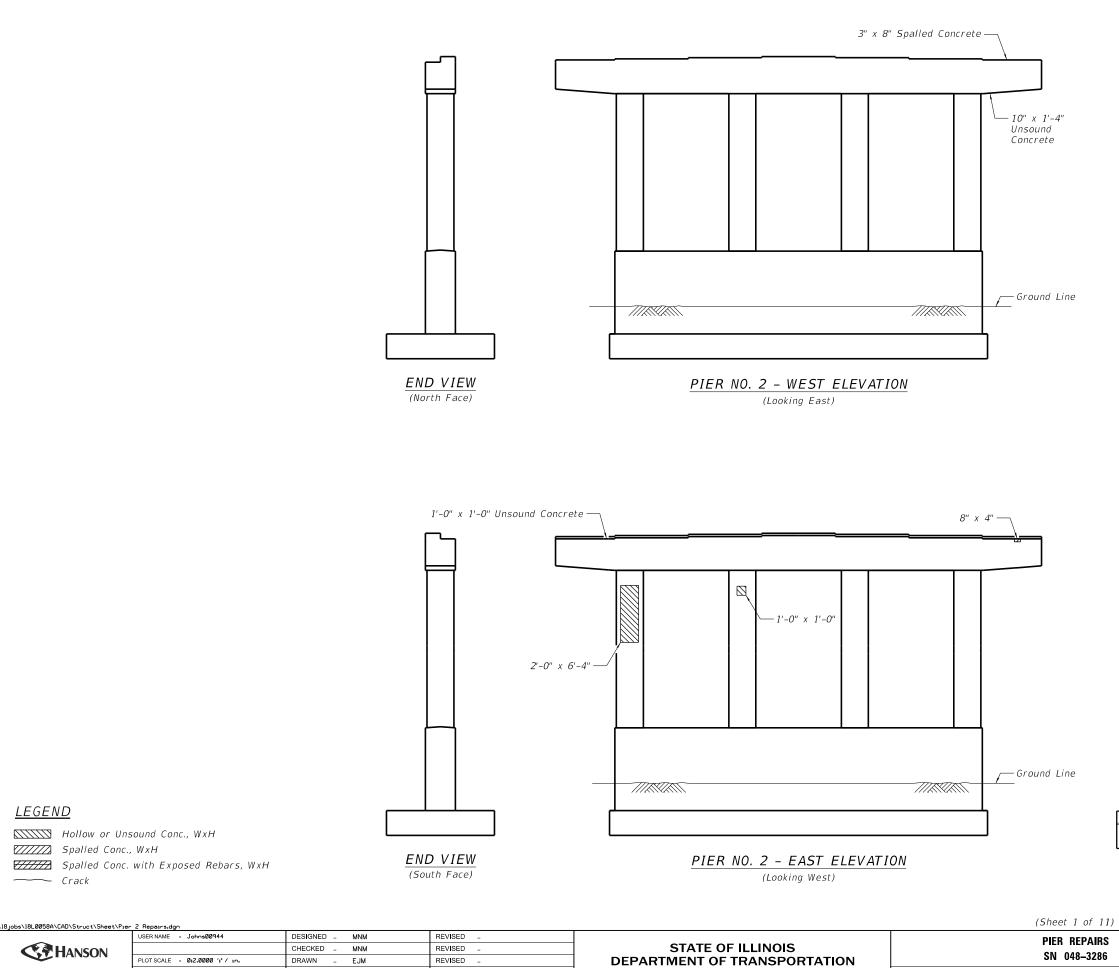


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SHEET NO. 15 OF @

CKWALL	F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
286	400	18-00043-01-BR	KNOX	81	31
200			CONTRACT	NO. 8	39819
51 SHEETS		ILLINOIS FED. AI	PROJECT 4		



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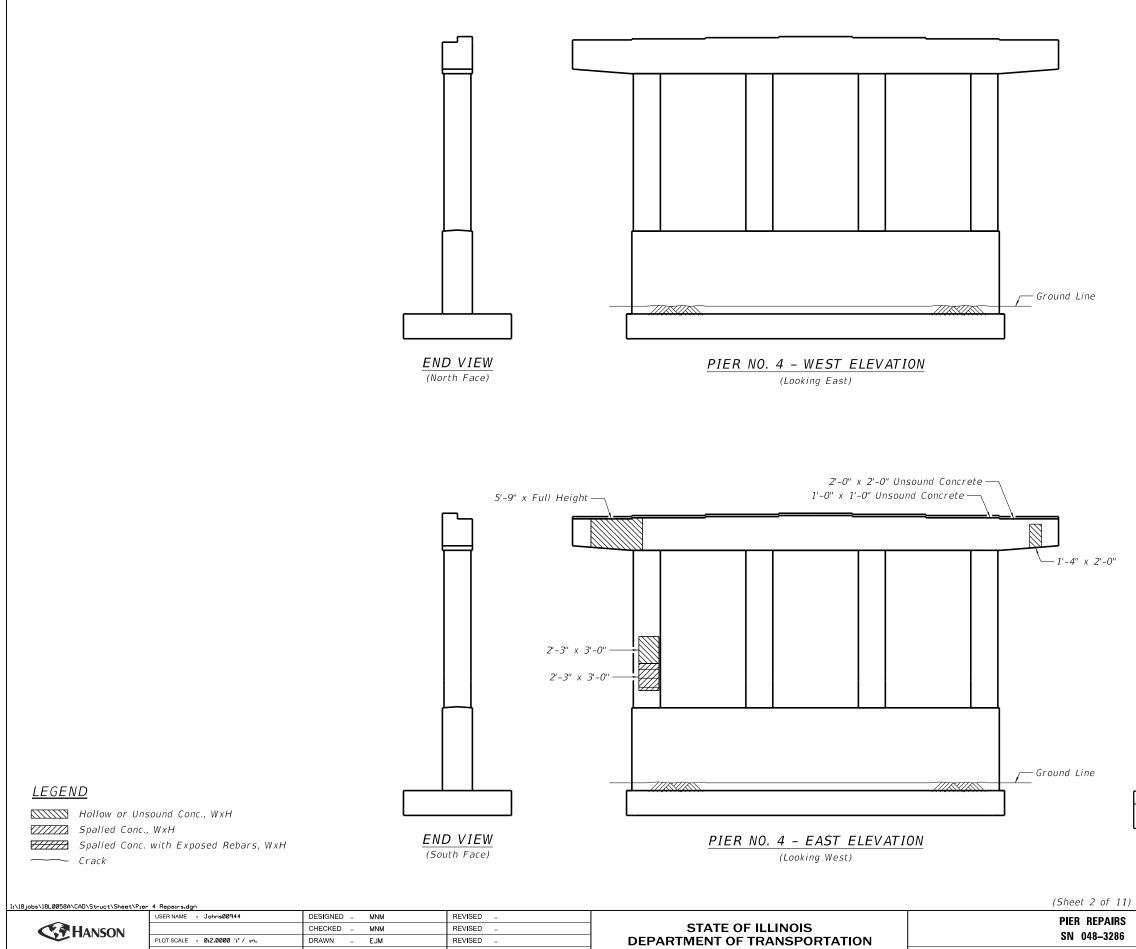
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SHEET NO. 16 OF

<u>BILL OF MATERIAL</u>

Item	Unit	Total
Structural Repair of Concrete	Sa Et	16
(Depth Equal to or Less than 5 Inches)	Jyn	10

A.S. RTE			COUNTY	TOTAL SHEETS	SHEET NO.
400	18-00043	KNOX	81	32	
			CONTRACT	NO. 8	39819
61 SHEETS ILLINOIS FED. AID PROJECT 4					
R	TE.	ITE. SECTION 18-00043	ITE. SECTION 100 18-00043-01-BR	TE. SECTION COUNTY 100 18-00043-01-BR KN0X CONTRACT CONTRACT	TE. SECTION COUNTY SHEETS 100 18-00043-01-BR KN0X 81 CONTRACT NO.



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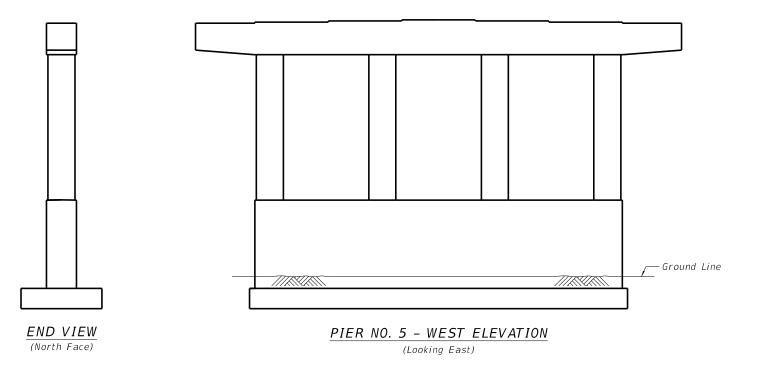
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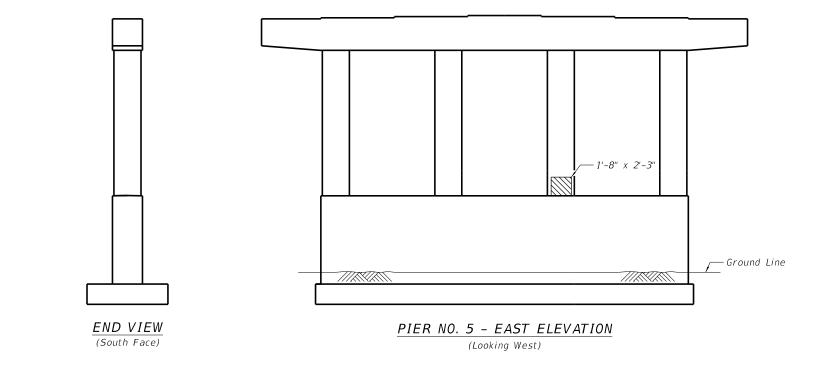
SHEET NO. 17 OF

<u>BILL OF MATERIAL</u>

Item	Unit	Total
Structural Repair of Concrete	Sa Ft	41
(Depth Equal to or Less than 5 Inches)	Jyn	41

F.A.S. RTE	SECTION		COUNTY		SHEET NO.
400	18-0004	3-01-BR	KNOX	81	33
			CONTRAC	T NO.	89819
		ILLINOIS FED. AI	PROJECT 4		
	RTE.	RTE. SECT 400 18-0004	RTE. SECTION 400 18-00043-01-BR	RTE. SECTION COUNTY 400 18-00043-01-BR KNOX	RTE. SECTION COUNTY SHEETS 400 18-00043-01-BR KN0X 81 CONTRACT NO.







Hollow or Unsound Conc., WxH

Spalled Conc., WxH

Spalled Conc. with Exposed Rebars, WxH

----- Crack

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		CHECKED _ MNM	REVISED _	STATE OF ILLINOIS		400 18-00043-01-BR	KNOX 81 34
	PLOT SCALE = 0:2.0000 ':' / In.	DRAWN – EJM	REVISED _	DEPARTMENT OF TRANSPORTATION	SN 048–3286		CONTRACT NO. 89819
C Copyright Hanson Professional Services Inc. 2022	PLOT DATE = 2/3/2022	CHECKED _ 01/24/2022	REVISED _		SHEET NO. 18 OF 61 SHEETS	ILLINOIS FED. A	AID PROJECT 4
2/2/2022							

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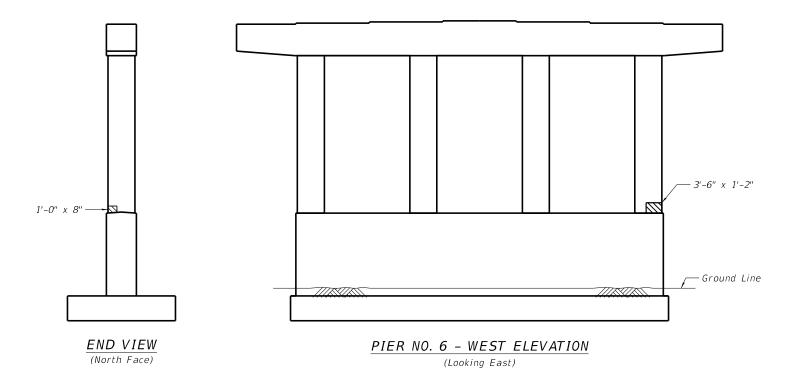
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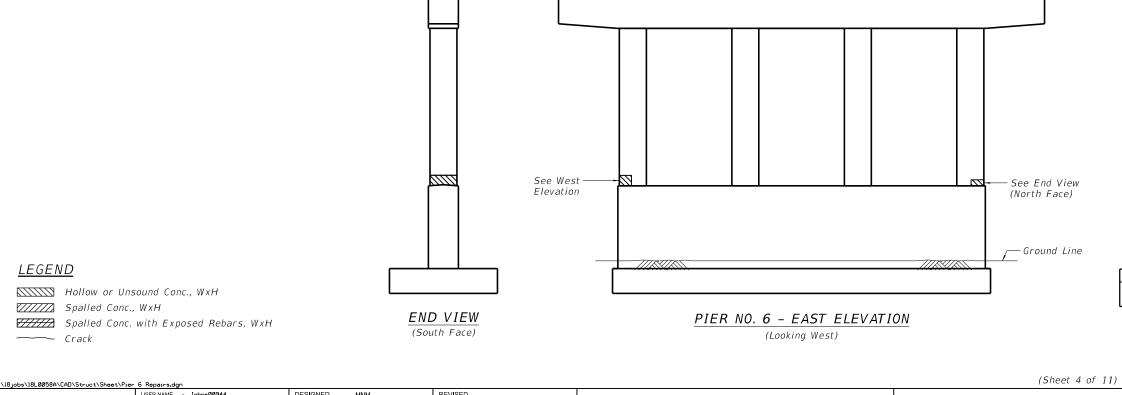
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 01/24/2022

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete	Sa Ft	4
(Depth Equal to or Less than 5 Inches)	July	

(Sheet 3 of 11)



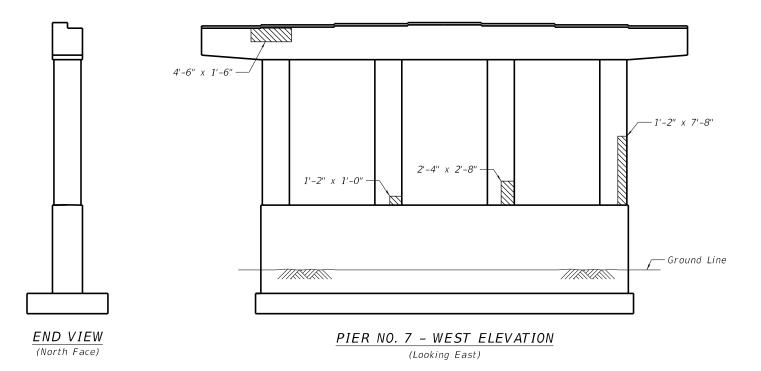


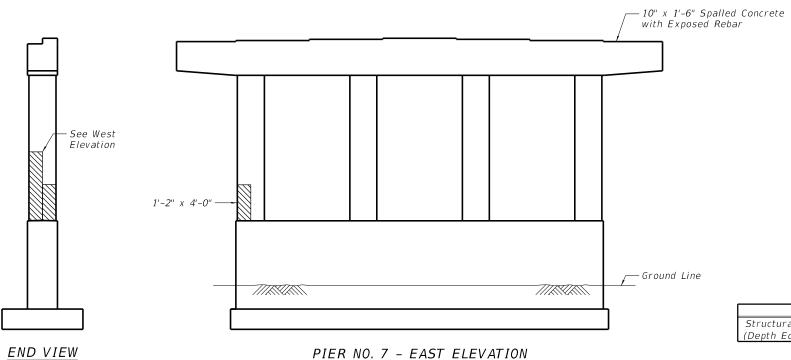
/21 6/21	Crack		(2	South Face)	(Looking West)					
VM 1/12 JM 05/0 VM 01/24	I:\18jobs\18L0058A\CAD\Struct\Sheet\Pier	6 Repairs.dgn				(Sheet 4 of 11)				
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	HANSON		CHECKED _ MNM	REVISED _	STATE OF ILLINOIS	SN 048-3286	400 18-00	0043-01-BR	KNOX	81 35
NE		PLOT SCALE = 0:2.0000 ':" / in.	DRAWN – EJM	REVISED _	DEPARTMENT OF TRANSPORTATION	3IN U40-3200			CONTRACT	TNO. 89819
868	Copyright Hanson Professional Services Inc. 2022	PLOT DATE = 2/3/2022	CHECKED _ 01/24/2022	REVISED _		SHEET NO. 19 OF 61 SHEETS		ILLINOIS FED. A		

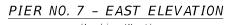
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BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	5







(Looking West)

Spalled Conc., WxH

Hollow or Unsound Conc., WxH

Spalled Conc. with Exposed Rebars, WxH

(South Face)

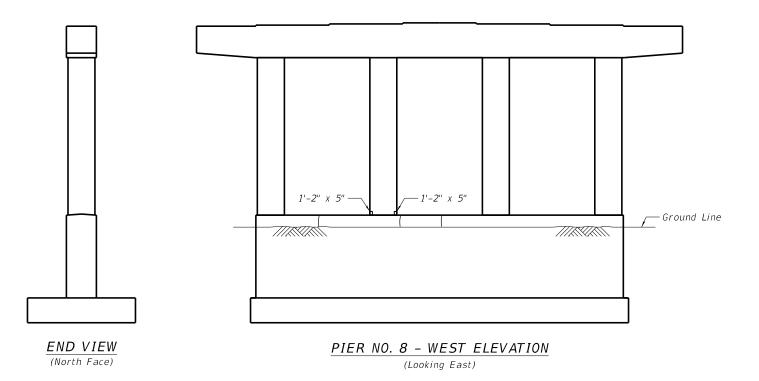
12/21 /06/21 24/2022	Crack		(5000	in Face)	(Looking West)			
1/12/ 05/06						(Sheet 5 of 11)		
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			CHECKED _ MNM	REVISED _		SN 048–3286	400 18-00043-01-BR	KNOX 81 36
		PLOT SCALE = 0:2.0000 ':" / in.	DRAWN – EJM	REVISED _				CONTRACT NO. 89819
		PLOT DATE = 2/3/2022	CHECKED _ 01/24/2022	REVISED _		SHEET NO. 20 OF 61 SHEETS	ILLINOIS FED.	AID PROJECT 4
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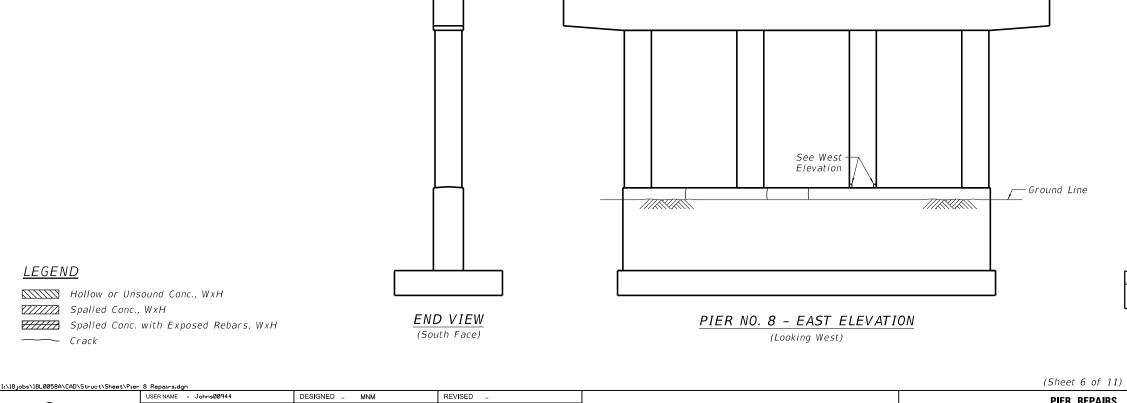
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<u>LEGEND</u>

<u>BILL OF MATERIAL</u>

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	29

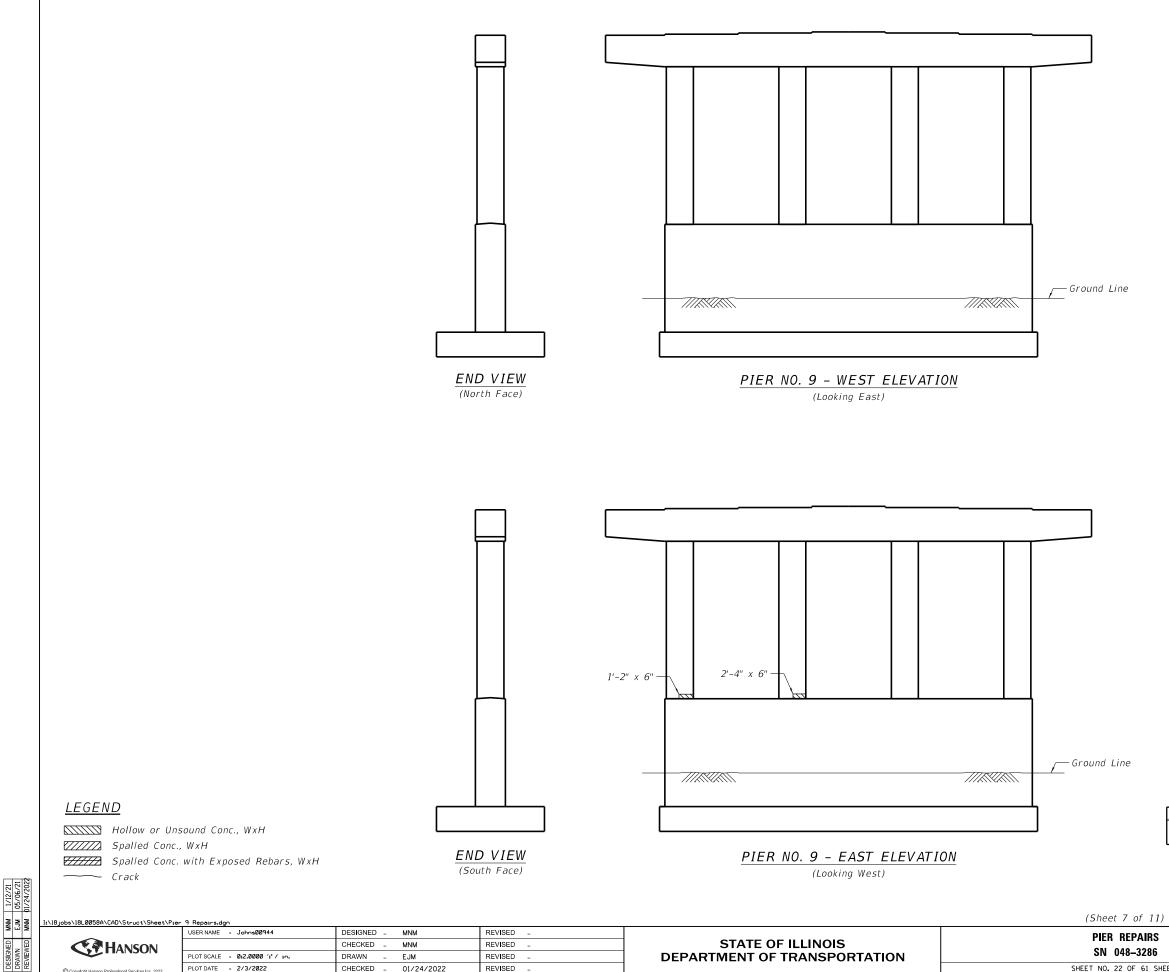




12/23	Crack		(5	South Face)	(Looking West)					
A 1/12/21 A 05/06/21 A 01/24/2022						(Sheet 6 of 11)				
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	© Copyright Hanson Professional Services Inc. 2022	PLOT DATE = 2/3/2022	CHECKED _ 01/24/2022	REVISED _		SHEET NO. 21 OF 61 SHEETS		ILLINOIS FED	AID PROJECT 4	

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Item	Unit	Total
Structural Repair of Concrete	Sa Ft	1
(Depth Equal to or Less than 5 Inches)	Jyn	1



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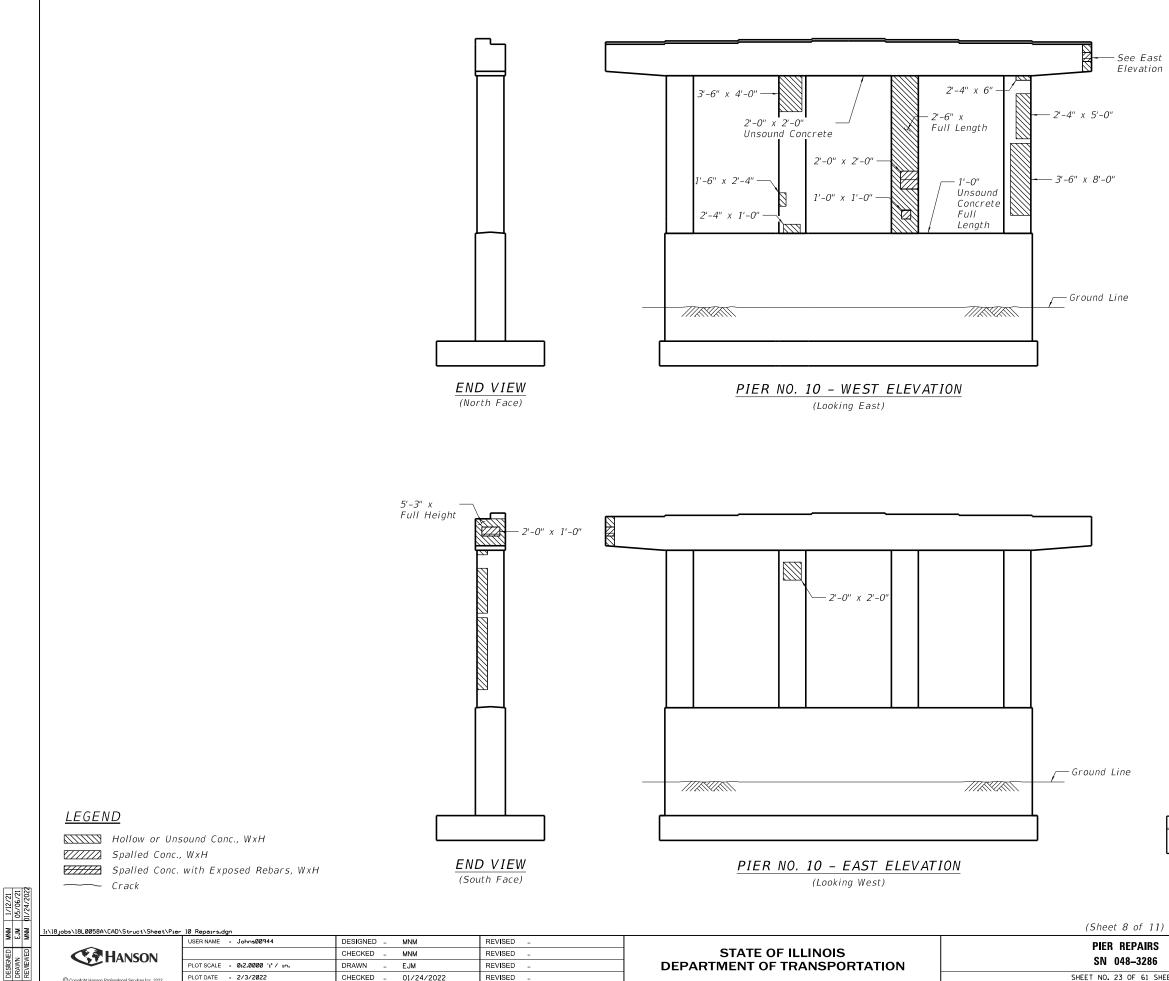
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SHEET NO. 22 OF

<u>BILL OF MATERIAL</u>

	ome
t 2	Sa Ft
F	Sq

A.S. RTE			COUNTY	TOTAL SHEETS	SHEET NO.
400	18-00043-01-BR		KNOX	81	38
			CONTRACT	NO. 8	39819
	1	LLINOIS FED. A	D PROJECT 4		
F	RTE.	RTE. SECTI 400 18-00043	ADD 18-00043-01-BR	RTE. SECTION COUNTY 400 18-00043-01-BR KNOX	SECTION COUNTY SHEETS 400 18-00043-01-BR KN0X 81 CONTRACT NO.



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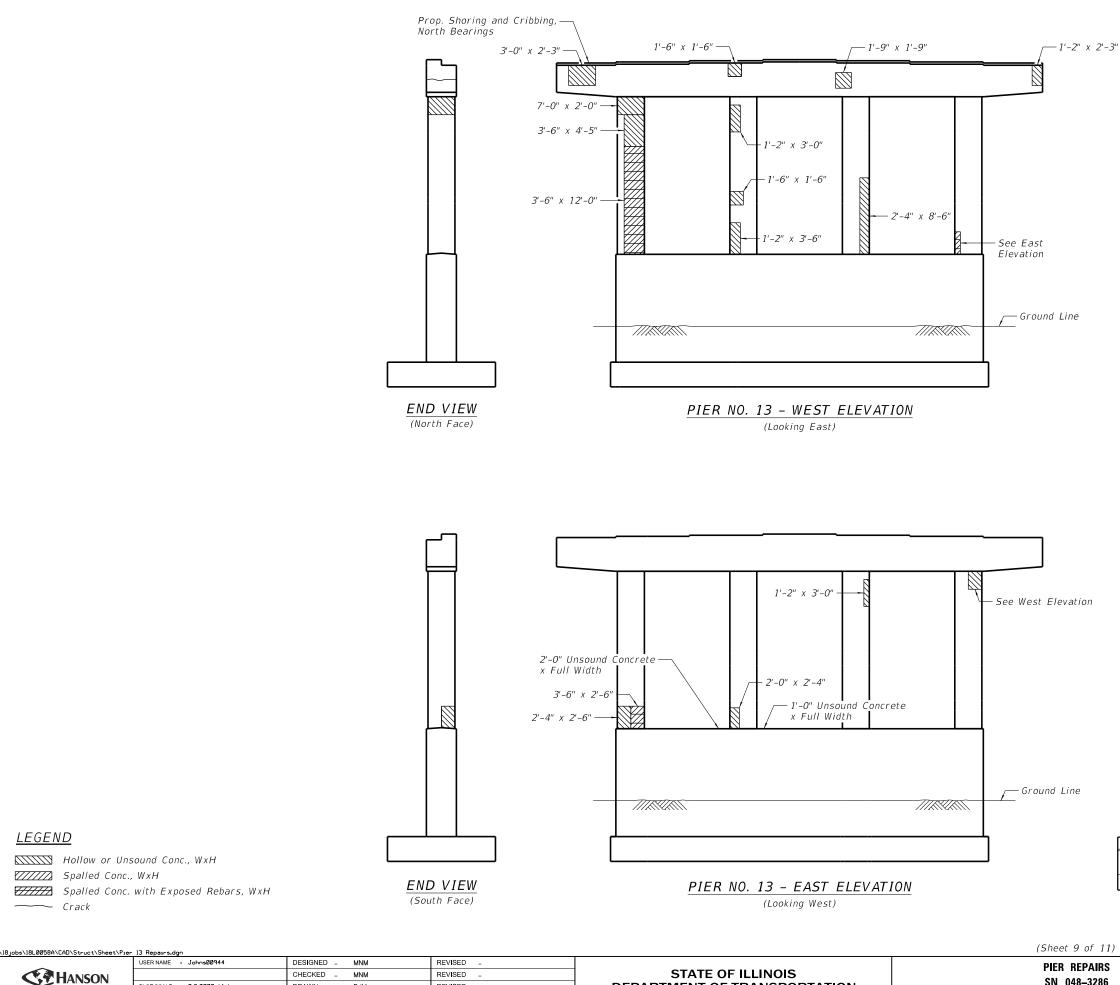
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SHEET NO. 23 OF

<u>BILL OF MATERIAL</u>

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	127

AIRS 3286		SECTION	COUNTY	TOTAL SHEETS	
		18-00043-01-BR	KNOX	81	39
			CONTRACT	NO. 8	89819
61 SHEETS	ILLINOIS FED. AID PROJECT 4				



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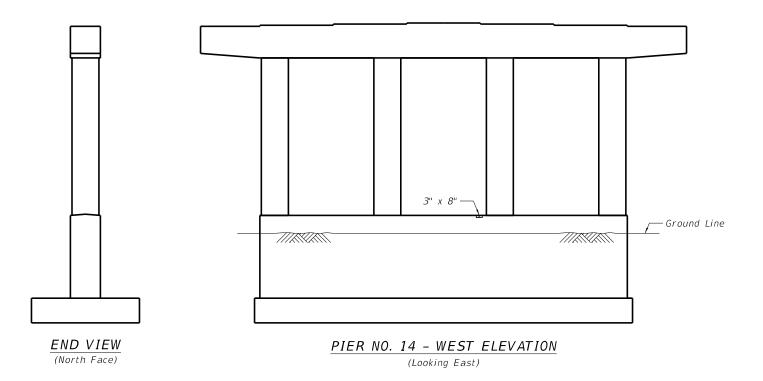
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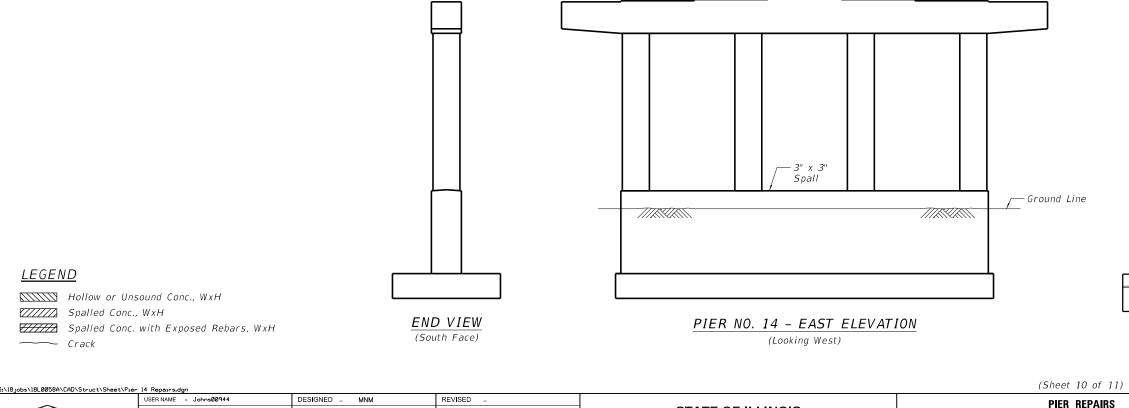
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SN 048-32 SHEET NO. 24 OF

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	149
Temporary Shoring and Cribbing	Each	2

AIRS 3286		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		18-00043-01-BR	KNOX	81	40
			CONTRACT	NO. 8	39819
61 SHEETS		ILLINOIS FED. AID	PROJECT 4		





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VED .	C HANSON		CHECKED _ MNM	REVISED _	STATE OF ILLINOIS		400 18-00043-01-BR	KNOX 81 41	
SIE .		PLOT SCALE = 0:2.0000 ':" / in.	DRAWN – EJM	REVISED _	DEPARTMENT OF TRANSPORTATION	SN 048–3286	ſ <u></u>	CONTRACT NO. 89819	
회꾼	Copyright Hanson Professional Services Inc. 2022	PLOT DATE = 2/3/2022	CHECKED _ 01/24/2022	REVISED _		SHEET NO. 25 OF 61 SHEETS	ILLINOIS FED.	AID PROJECT 4	

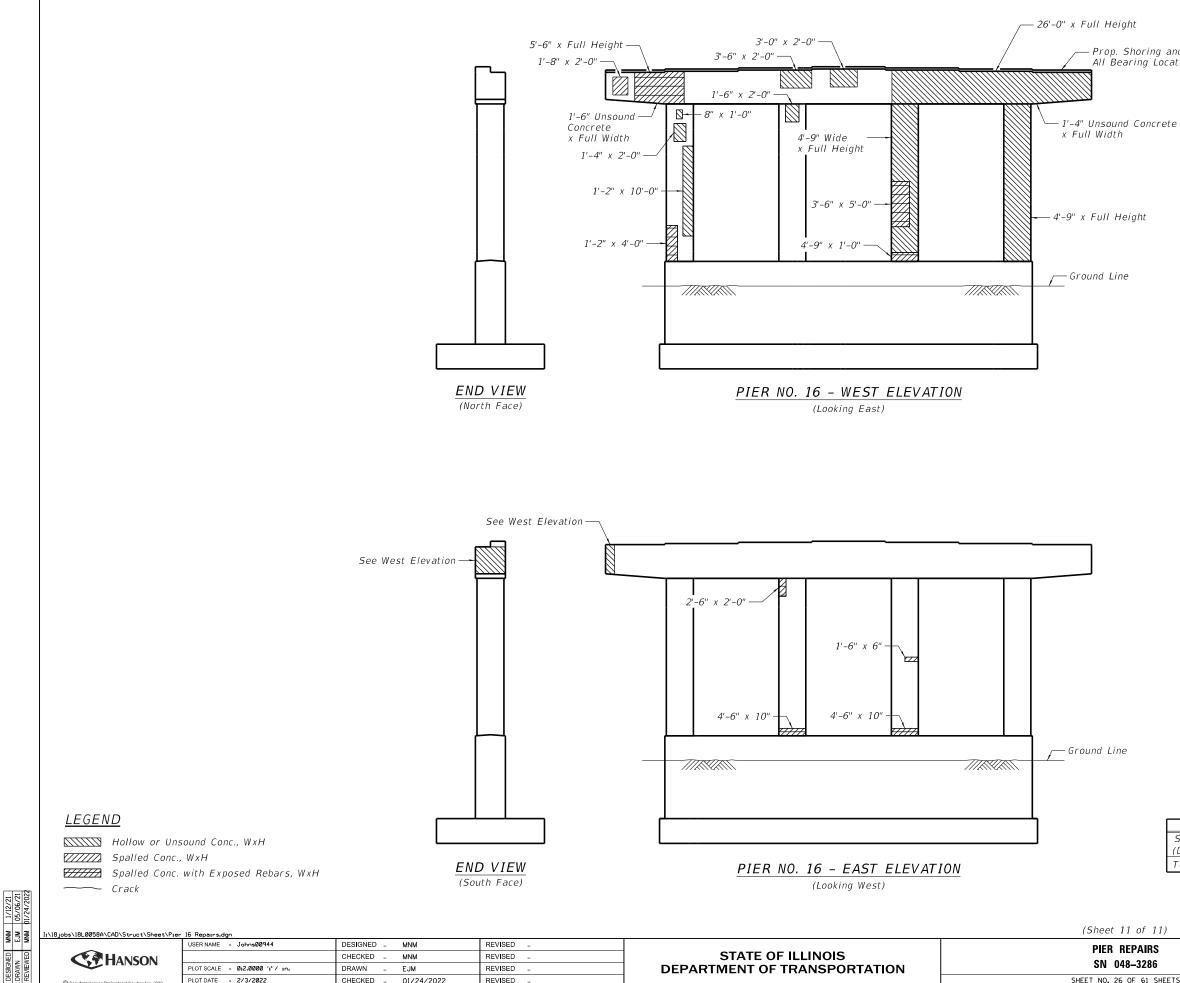
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 05/06/21

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Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	1



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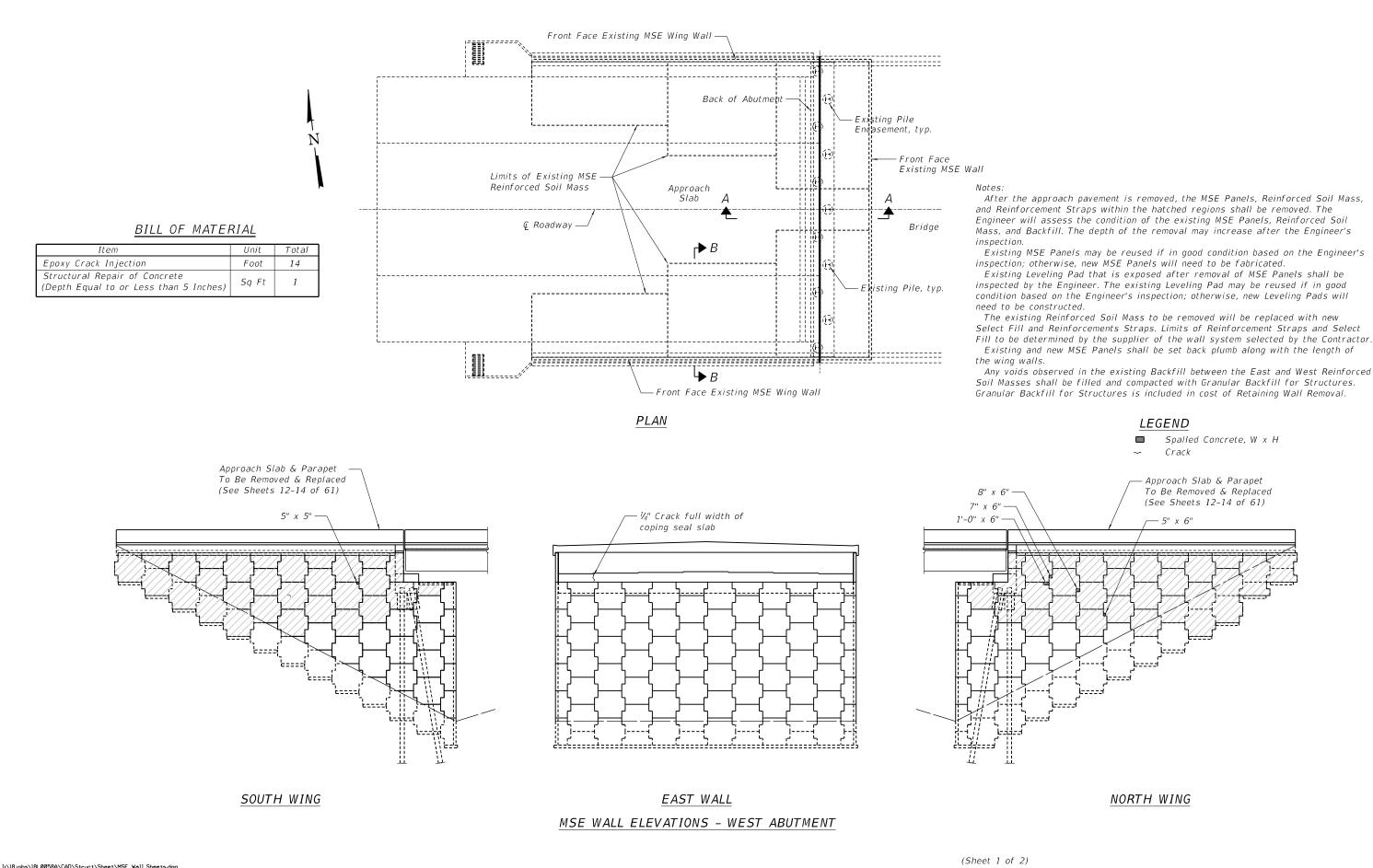
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SHEET NO. 26 OF

– Prop. Shoring and Cribbing, _All Bearing Locations

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	417
Temporary Shoring and Cribbing	Each	14

AIRS 3286		F.A.S. SECTION		TOTAL SHEETS	SHEET NO.
		18-00043-01-BR	KNOX	81	42
			CONTRACT	NO. 8	89819
61 SHEETS		ILLINOIS FED. AID	PROJECT 4		



1/6/21 05/06/21 01/24/2022					<u>MSE WALL ELEVATIONS - WEST ABUTMENT</u>	
	I:\18jobs\18L0058A\CAD\Struct\Sheet\MS	E Wall Sheets.dgn				(Sheet 1 of 2)
8 4 8		USER NAME = Johns00944	DESIGNED - RGC	REVISED _		PLAN & ELEVATION (M
	C HANSON		CHECKED _ RGC	REVISED _	STATE OF ILLINOIS	
DESIGNED DRAWN REVIEWED		PLOT SCALE = 0:2.0000 ':' / in.	DRAWN – EJM	REVISED _	DEPARTMENT OF TRANSPORTATION	MSE WALLS
E E E	Copyright Hanson Professional Services Inc. 2022	PLOT DATE = 2/3/2022	CHECKED _ 01/24/2022	REVISED _		SHEET NO. 27 OF 61 SH
	12 10 22 814					

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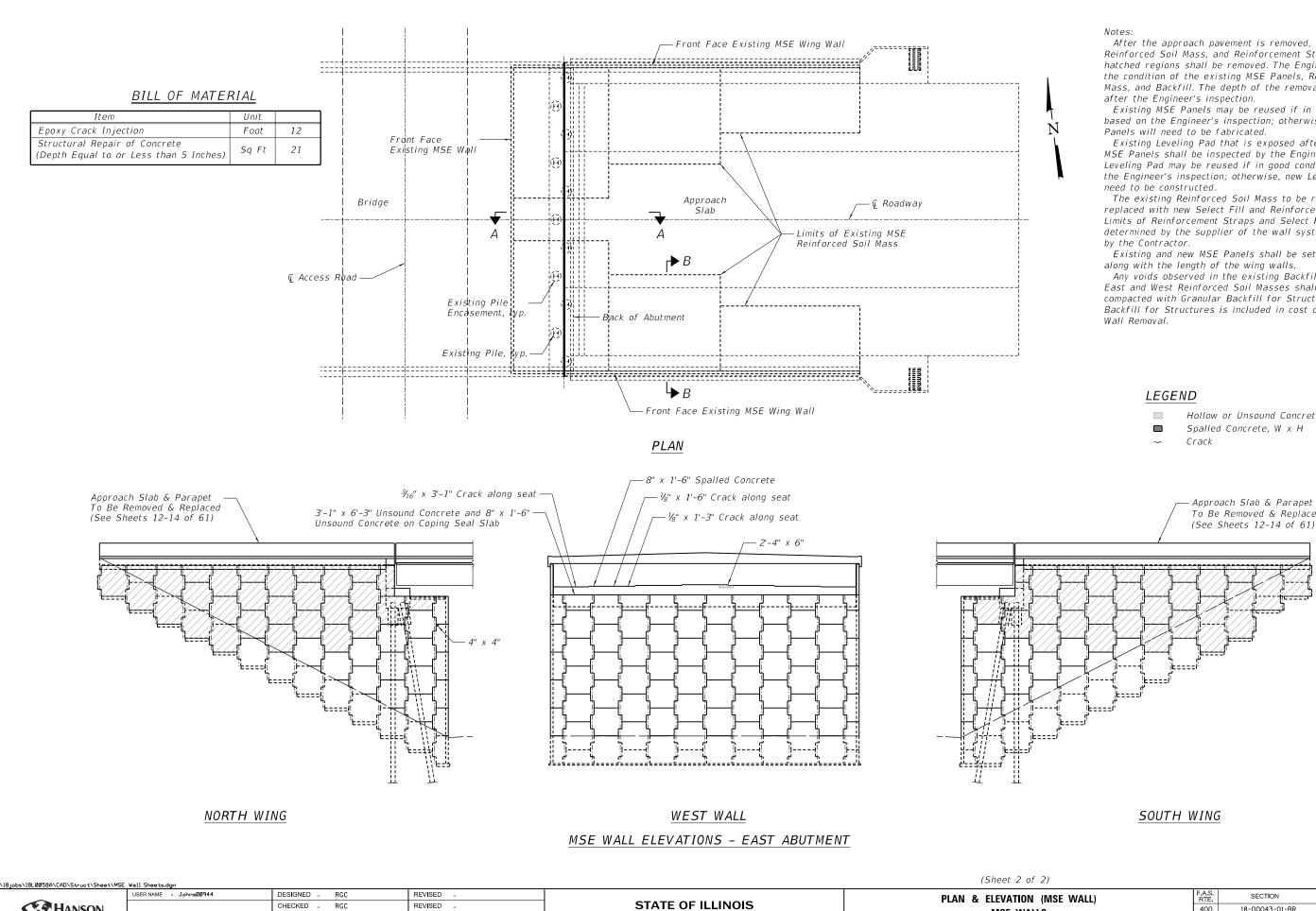
Engineer will assess the condition of the existing MSE Panels, Reinforced Soil Mass, and Backfill. The depth of the removal may increase after the Engineer's

Existing MSE Panels may be reused if in good condition based on the Engineer's

Select Fill and Reinforcements Straps. Limits of Reinforcement Straps and Select Fill to be determined by the supplier of the wall system selected by the Contractor. Existing and new MSE Panels shall be set back plumb along with the length of

Soil Masses shall be filled and compacted with Granular Backfill for Structures.

COUNTYTOTAL
SHEETSSHEET
NO.KNOX8143 F.A.S. RTE SECTION (MSE WALL) 18-00043-01-BR 400 2 CONTRACT NO. 89819 SHEETS ILLINOIS FED. AID PROJECT 4



DEPARTMENT OF TRANSPORTATION

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COUNTYTOTAL
SHEETSSHEET
NO.KN0X8144 A.S. RTE. PLAN & ELEVATION (MSE WALL) 400 18-00043-01-BR **MSE WALLS** CONTRACT NO. 89819 SHEET NO. 28 OF 61 SHEETS ILLINOIS FED AID PROJECT 4

After the approach pavement is removed, the MSE Panels, Reinforced Soil Mass, and Reinforcement Straps within the hatched regions shall be removed. The Engineer will assess the condition of the existing MSE Panels, Reinforced Soil Mass, and Backfill. The depth of the removal may increase

Existing MSE Panels may be reused if in good condition based on the Engineer's inspection; otherwise, new MSE

Existing Leveling Pad that is exposed after removal of MSE Panels shall be inspected by the Engineer. The existing Leveling Pad may be reused if in good condition based on the Engineer's inspection; otherwise, new Leveling Pads will

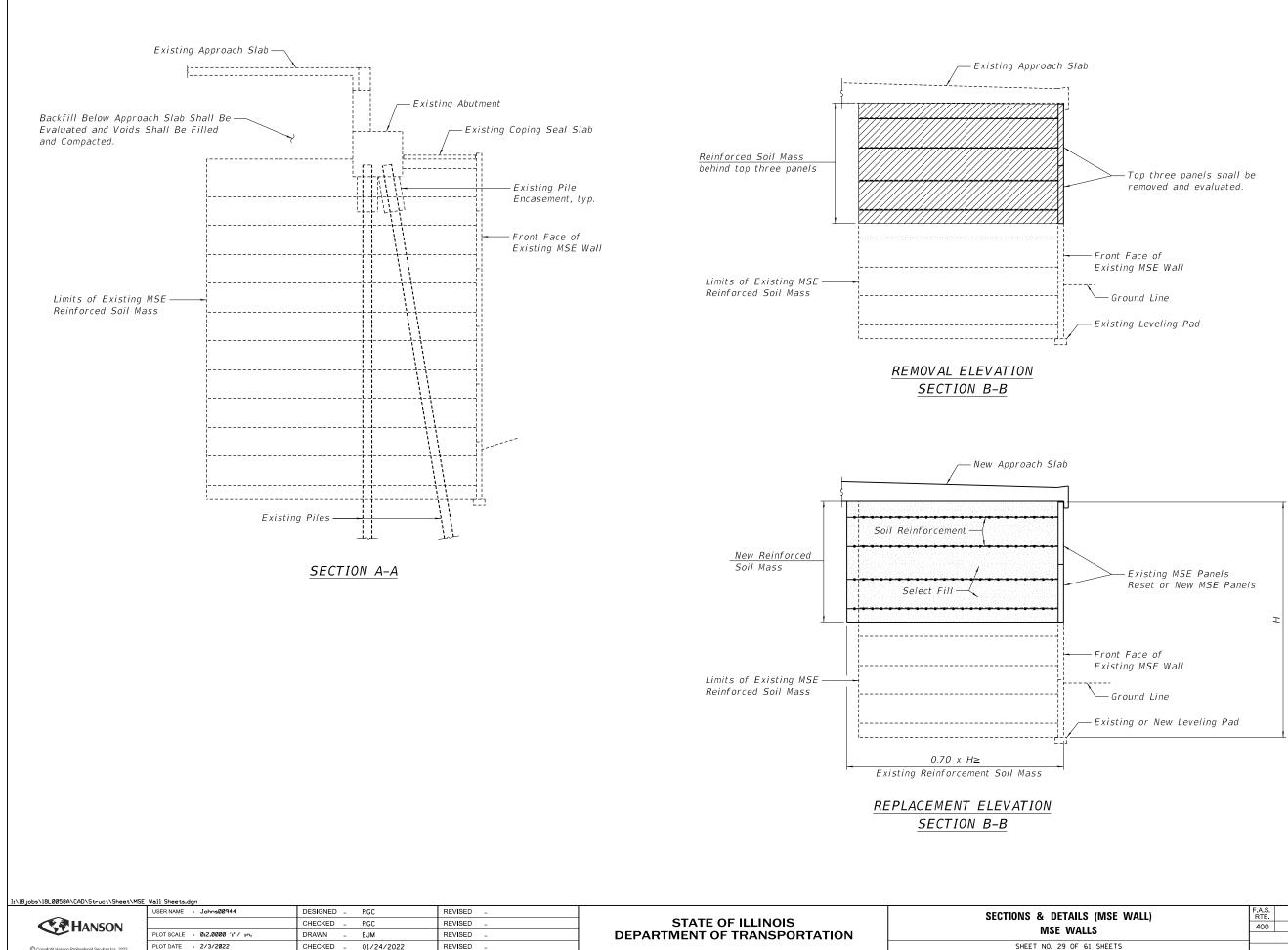
The existing Reinforced Soil Mass to be removed will be replaced with new Select Fill and Reinforcements Straps. Limits of Reinforcement Straps and Select Fill to be determined by the supplier of the wall system selected

Existing and new MSE Panels shall be set back plumb

Any voids observed in the existing Backfill between the East and West Reinforced Soil Masses shall be filled and compacted with Granular Backfill for Structures. Granular Backfill for Structures is included in cost of Retaining

- Hollow or Unsound Concrete, WxH

To Be Removed & Replaced (See Sheets 12-14 of 61)

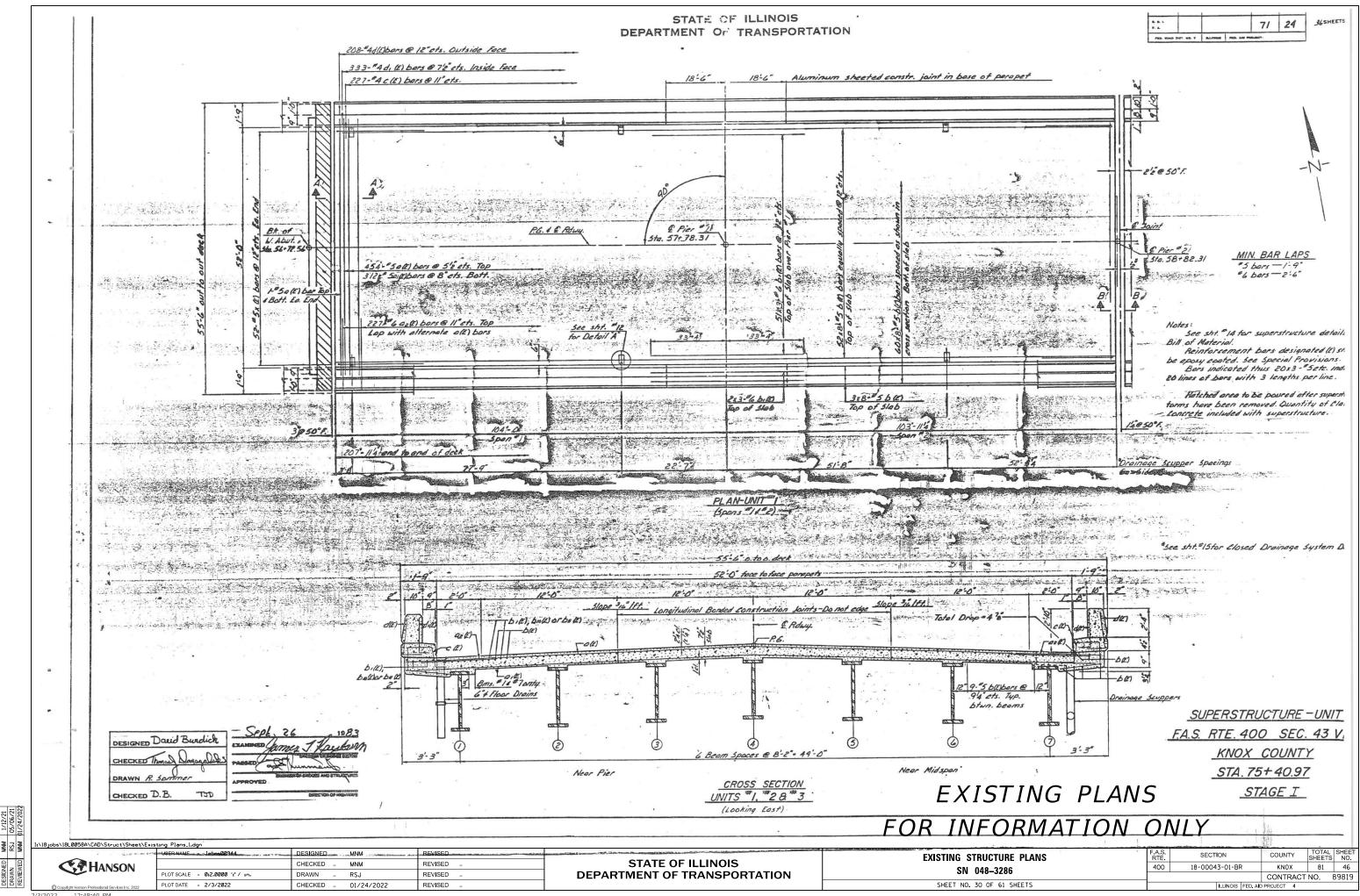


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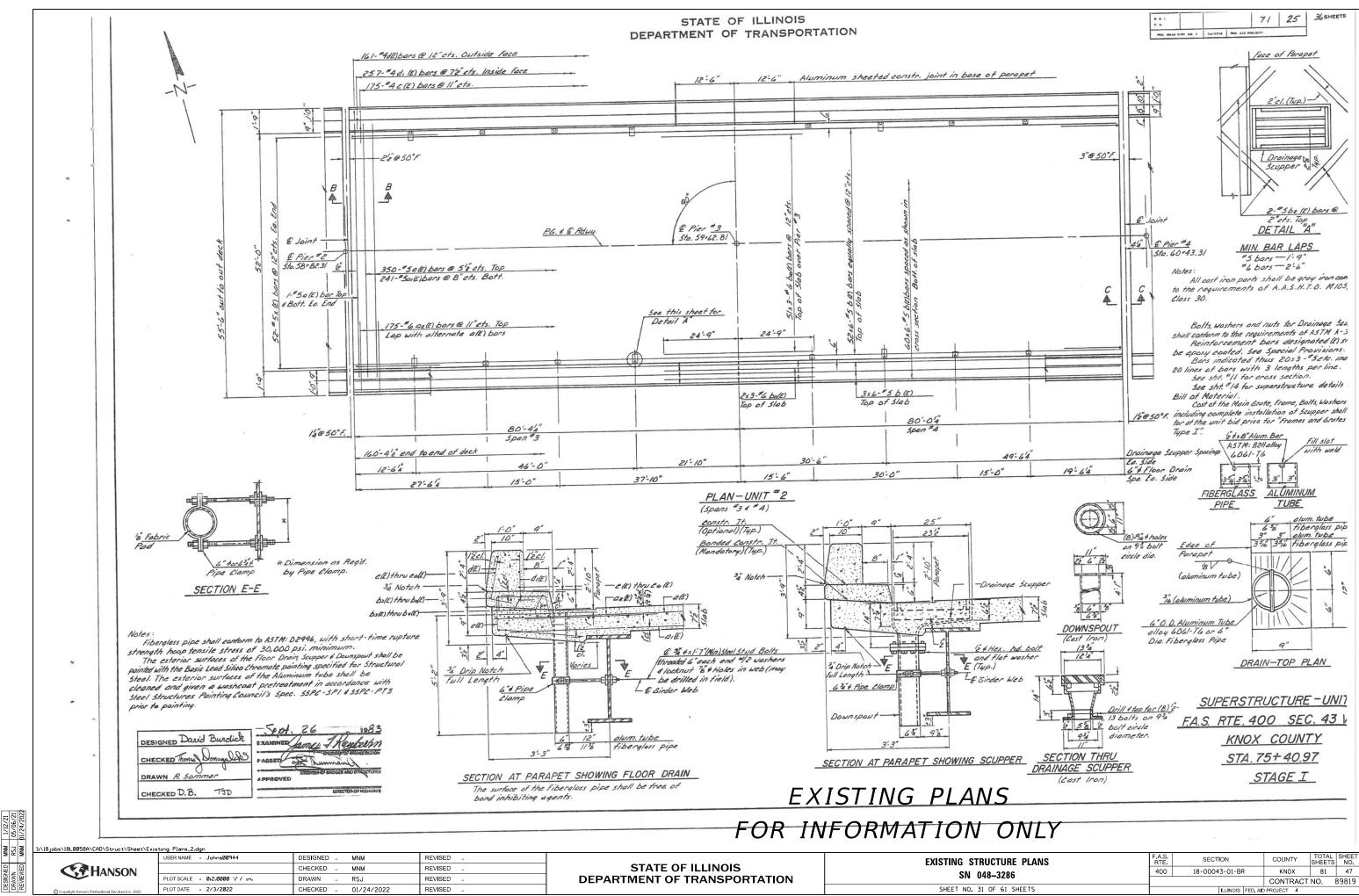
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S (MSE WALL) LLS		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		18-00043-01-BR	KNOX	81	45
			CONTRACT	NO. 8	39819
61 SHEETS		ILLINOIS FED. AID	PROJECT 4		

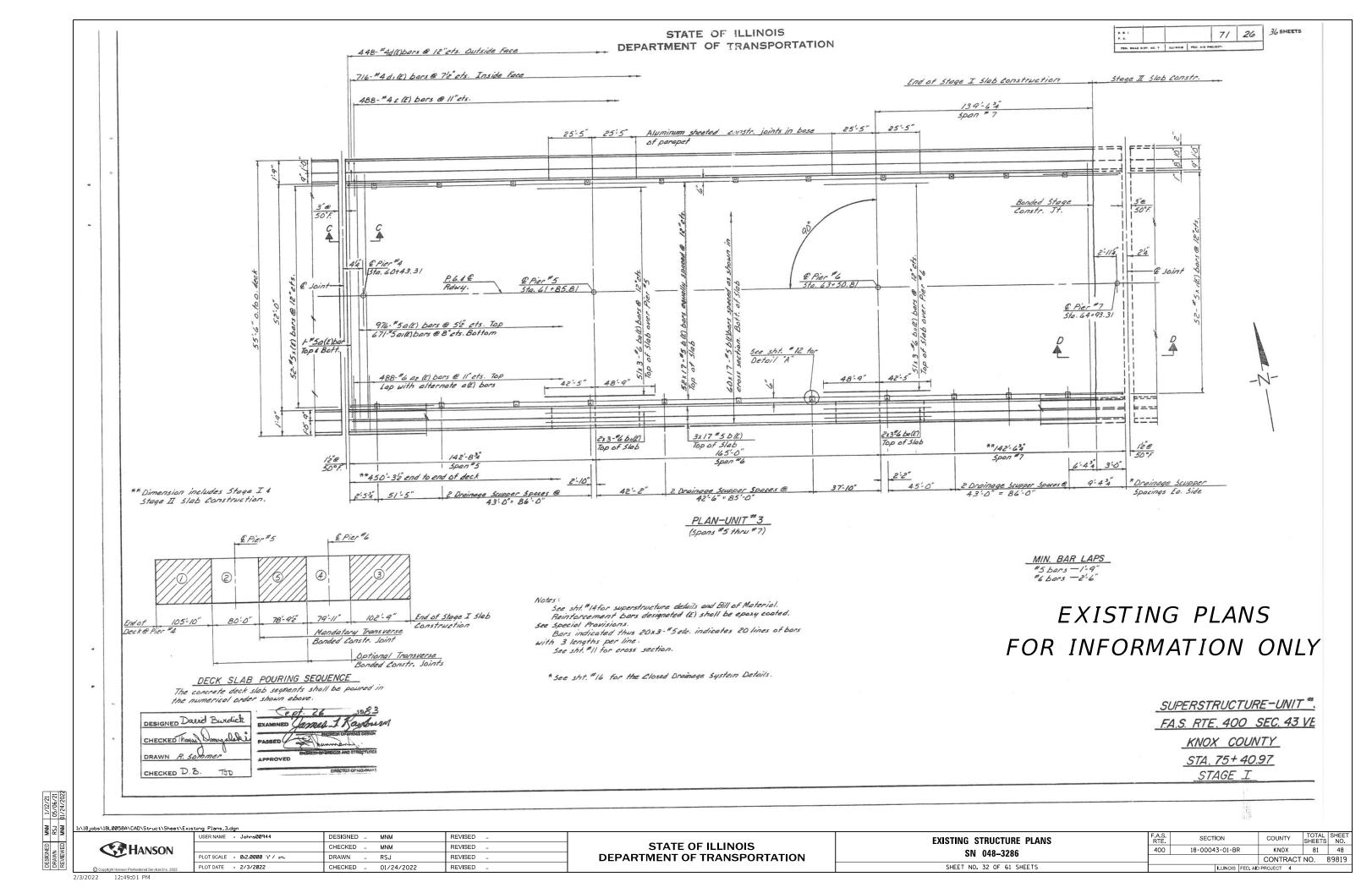


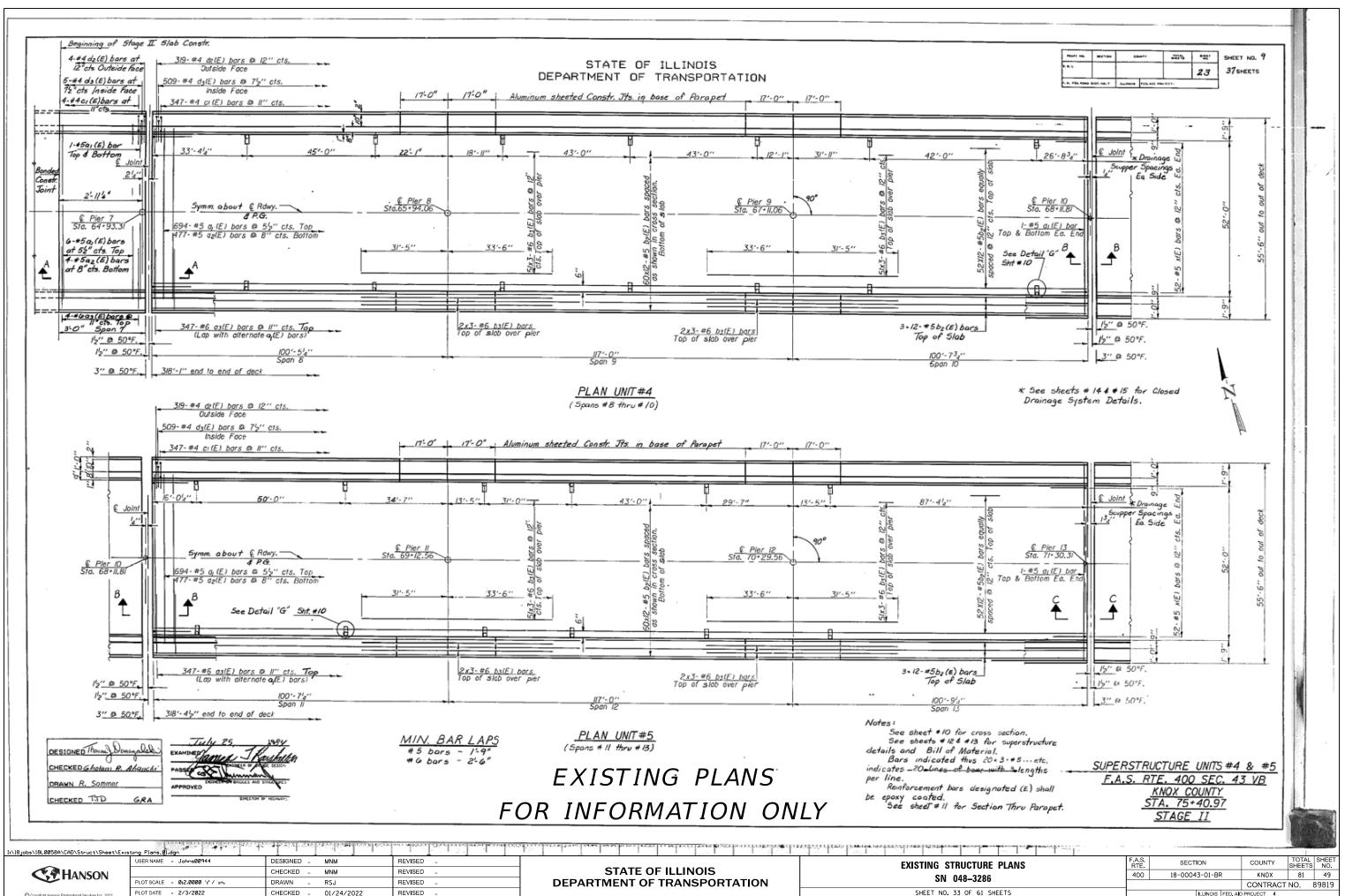
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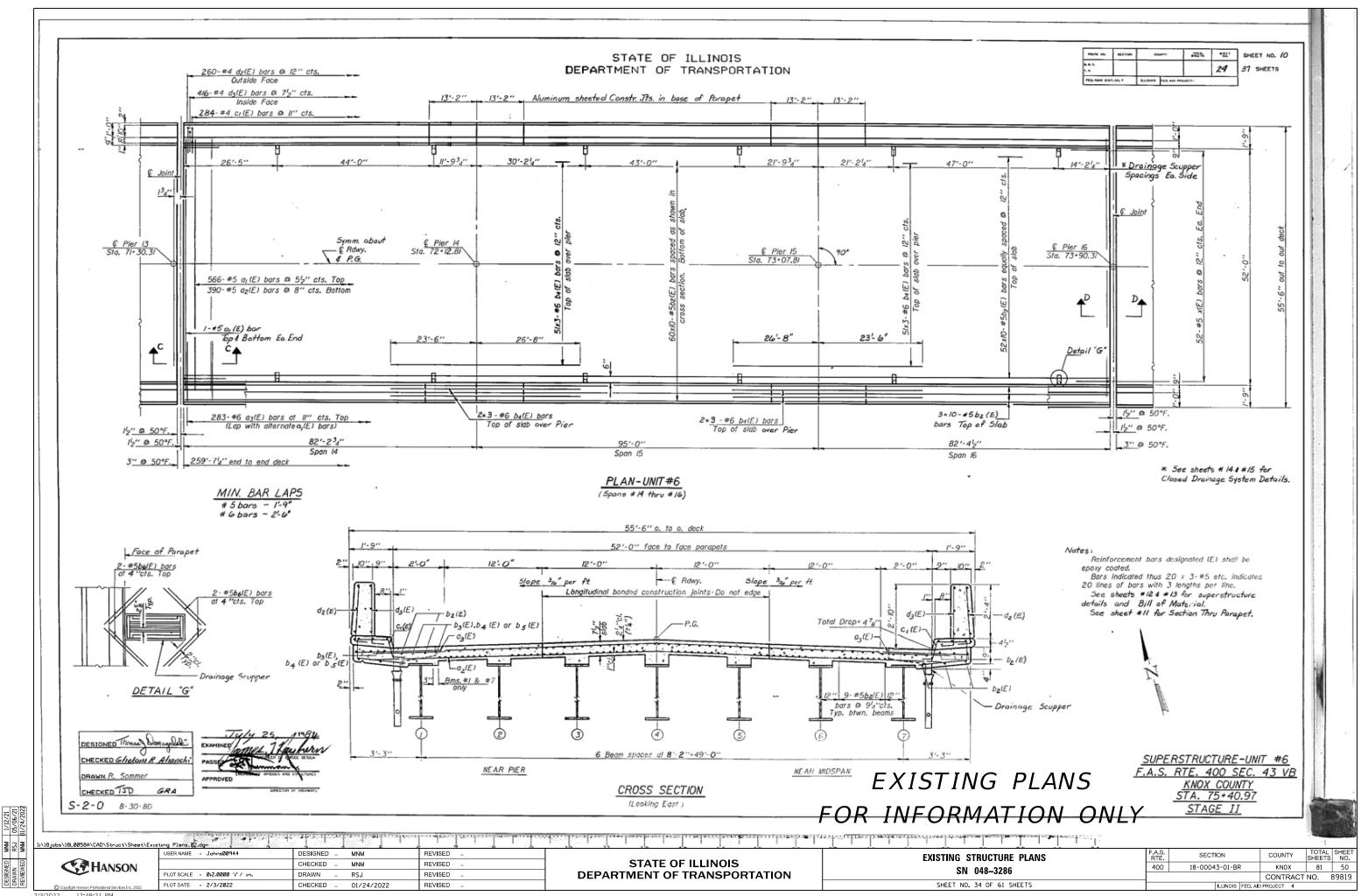




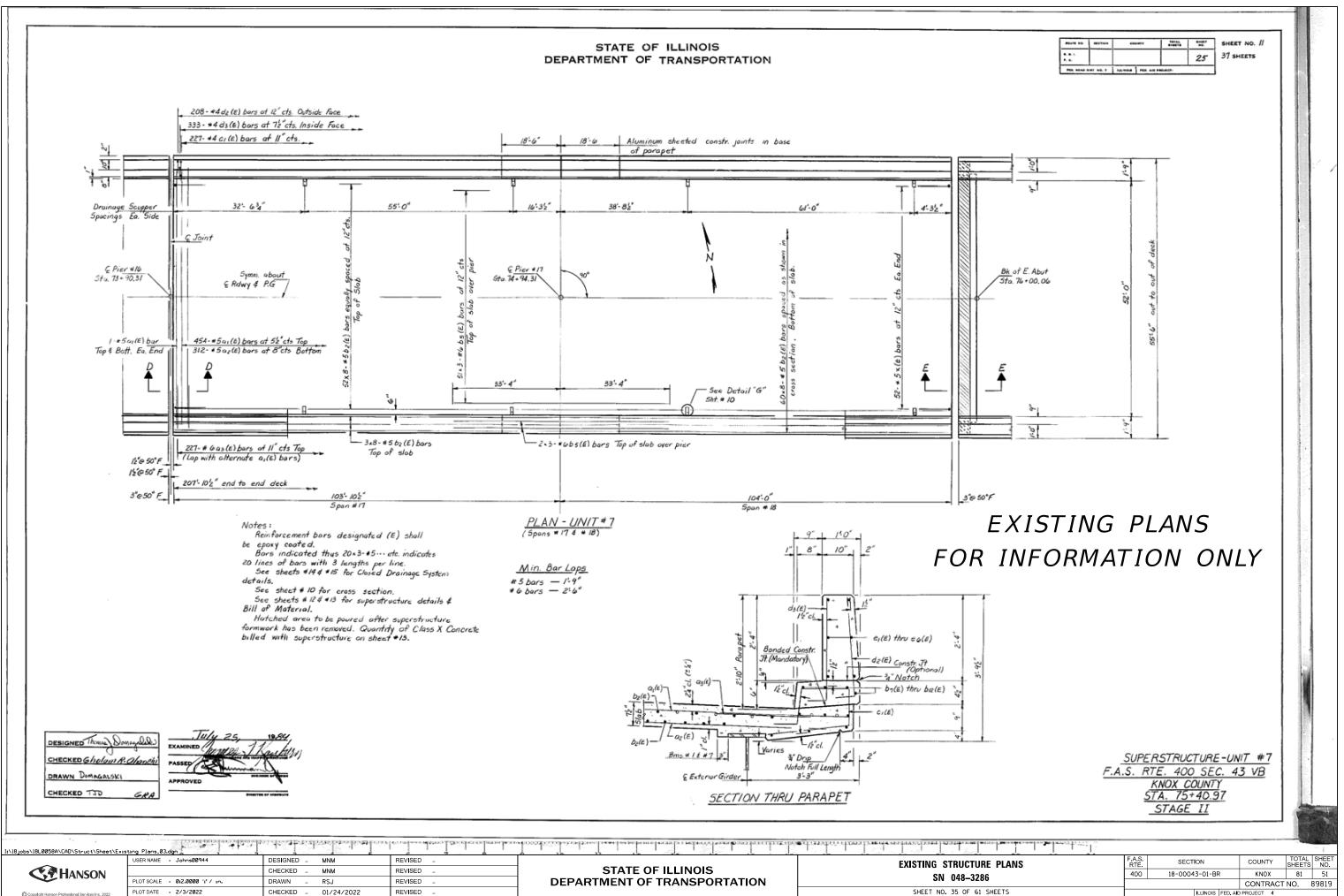
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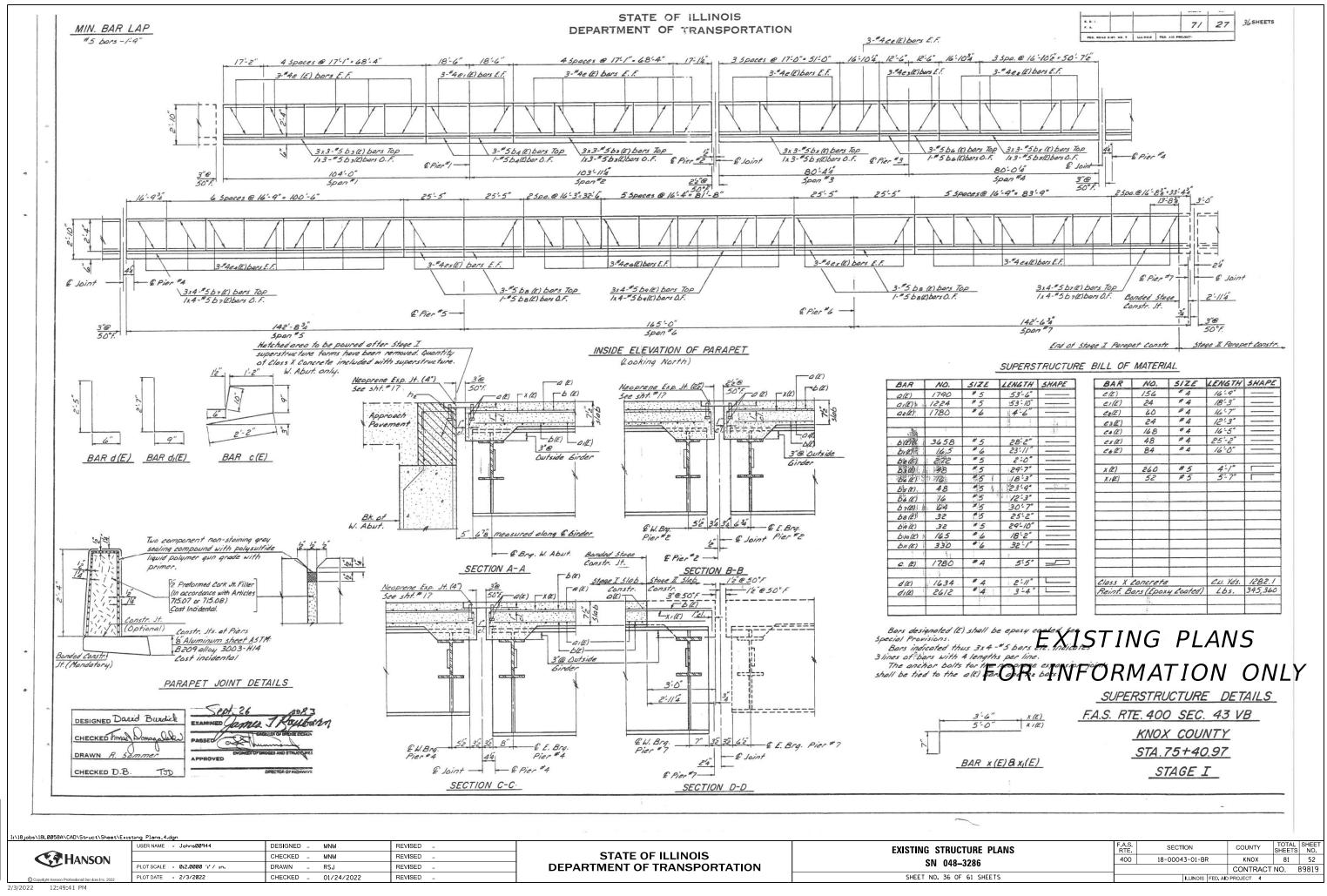


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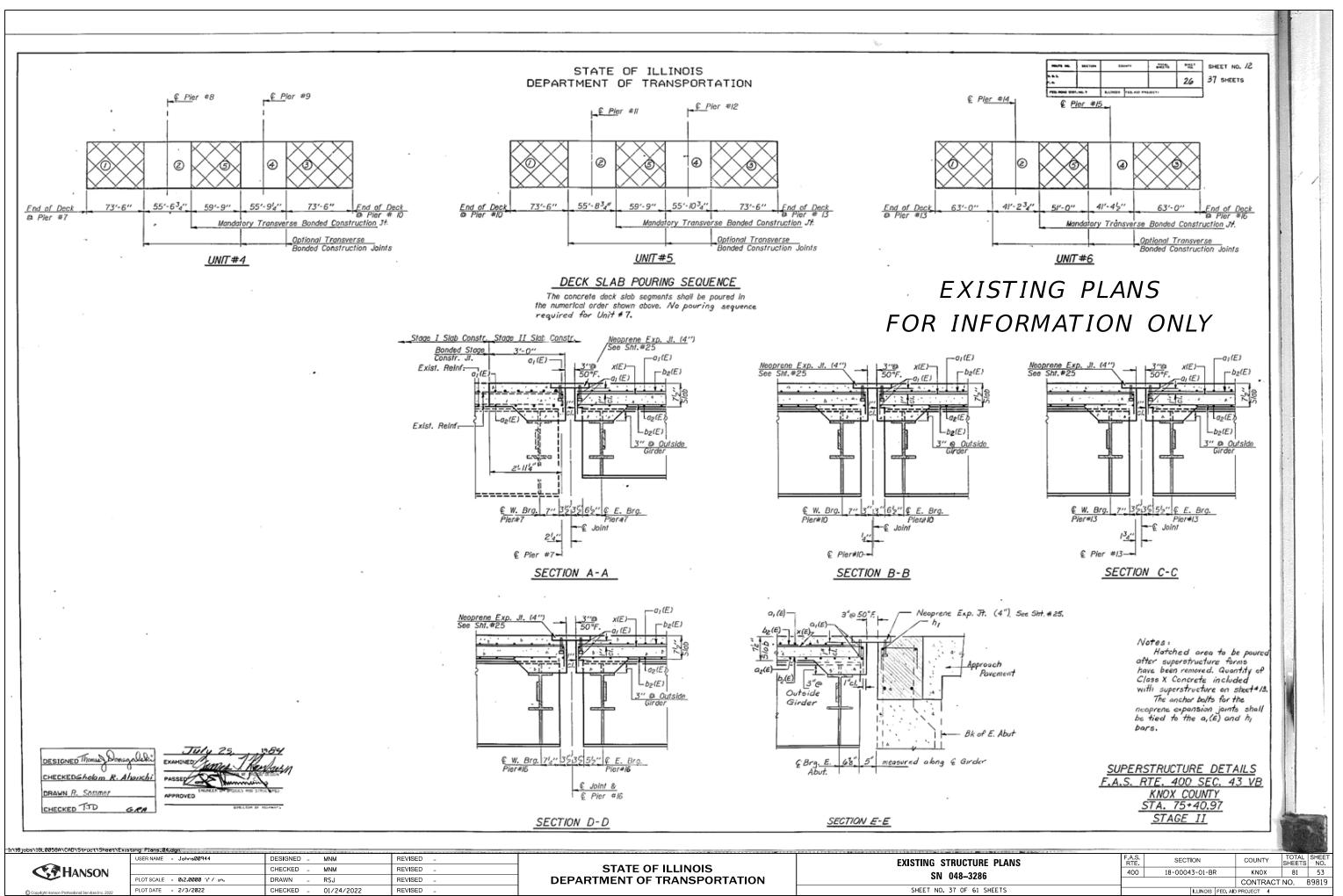
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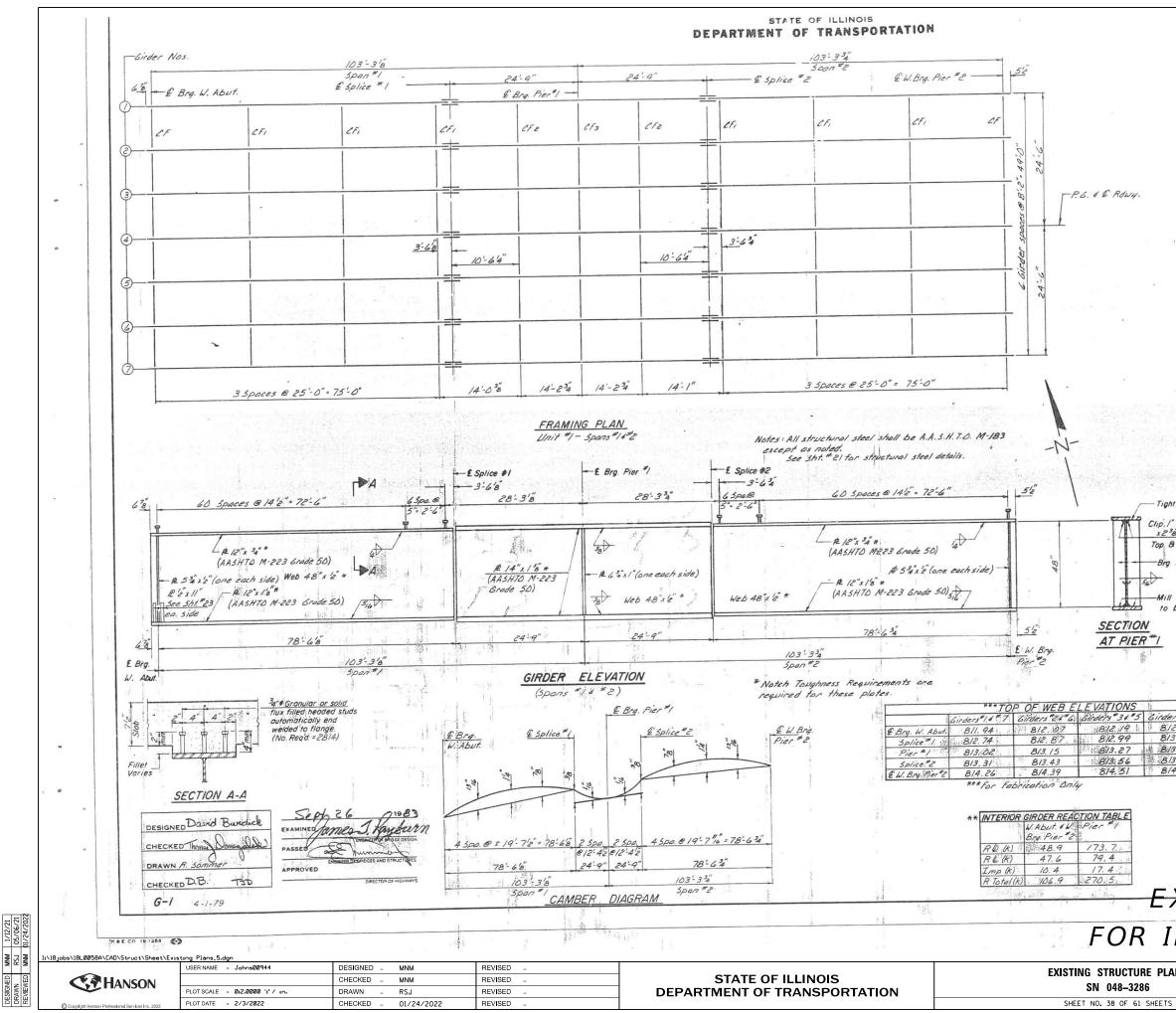


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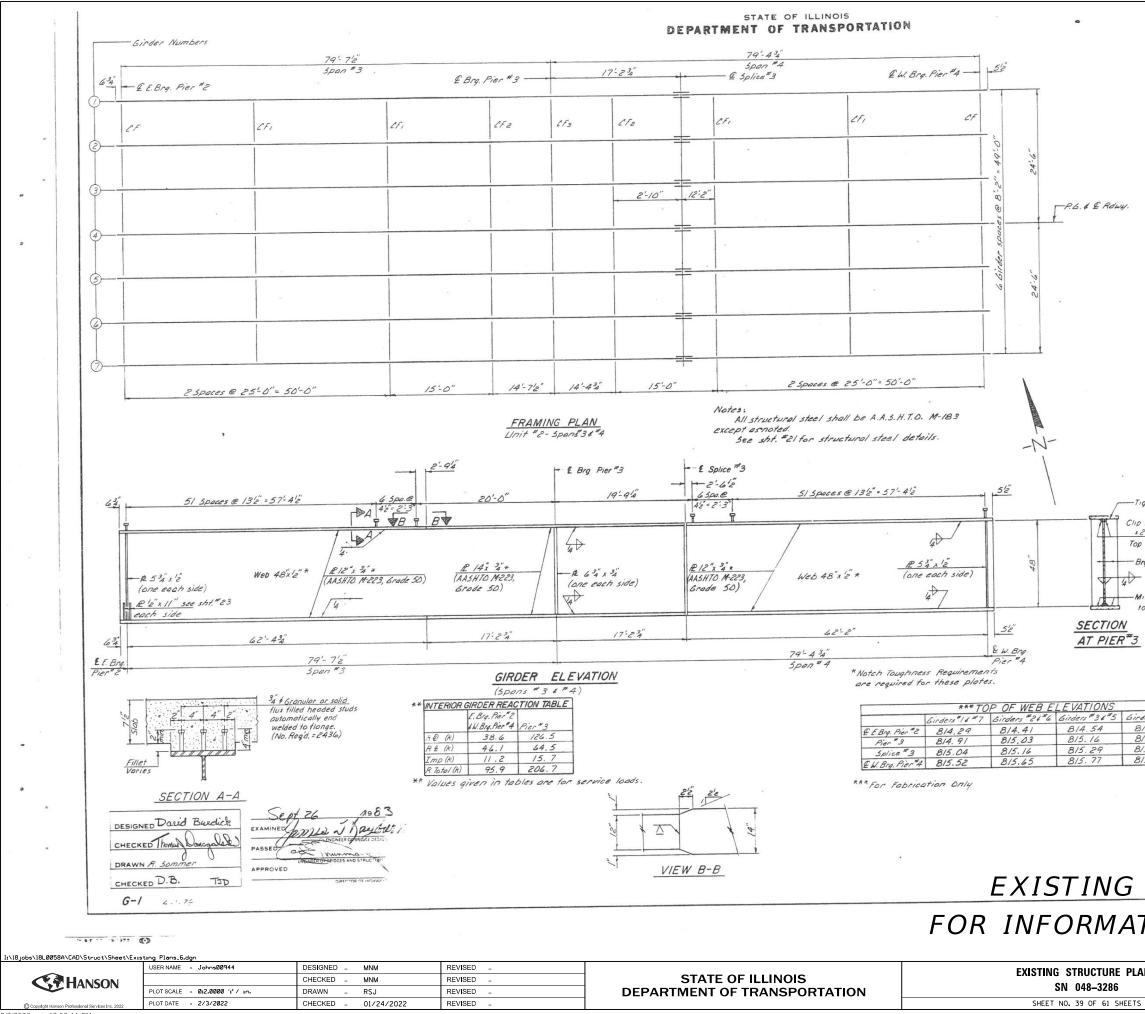
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		fs/Overloo	ad)(k.s.i.)	34.09	33.97 44.16
		** Fs(Total) ** VR (k)	(<i>R.3.1.</i>)	44.32	44.76
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to bear			-	+ + +	
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		SPLI	CE	18#21	DETAILS
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all colice plate	erren	+ filler plan	tes. FI	ler plat	es shall
812.32 placed on West	side of Rolts win	th "is & hold	es tor	splices.	e or spire
8/3.12 8/3.40					
813.69					
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		KNOX (COUI	VTY	
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				<u>.</u>	
EXISTING	PI	ANG	- 1, 8, 9 - 12, 317		
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	F.A.S. RTE	SECTION		COUN	ITY TOTAL SHEET
RE PLANS 86	RTE. 400	18-00043-0		KN	SHEETS NO.
OD 1 SHEETS				CONT	RACT NO. 89819
		LILI	INUIS FEC	AU PROJECT	4



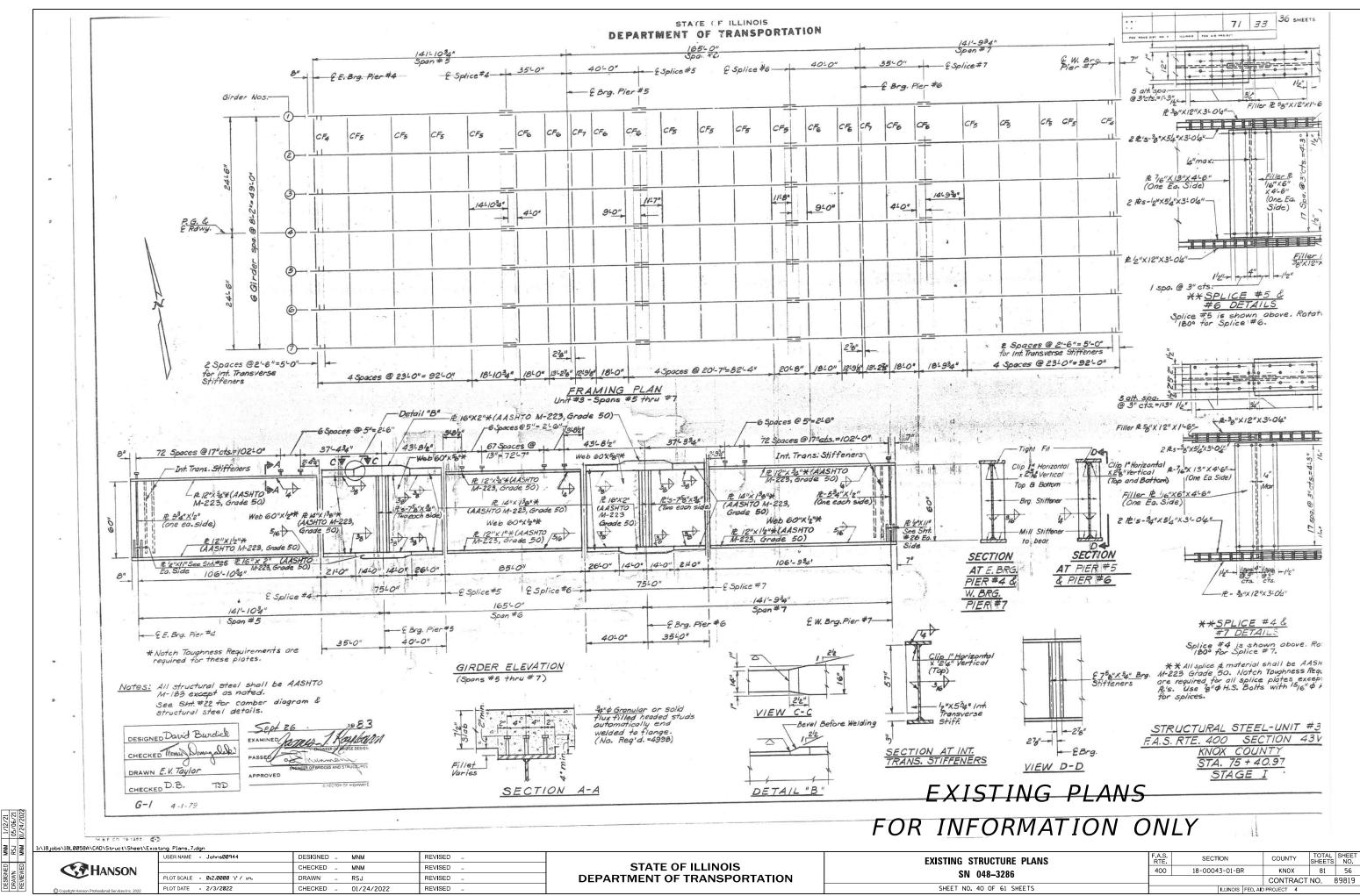
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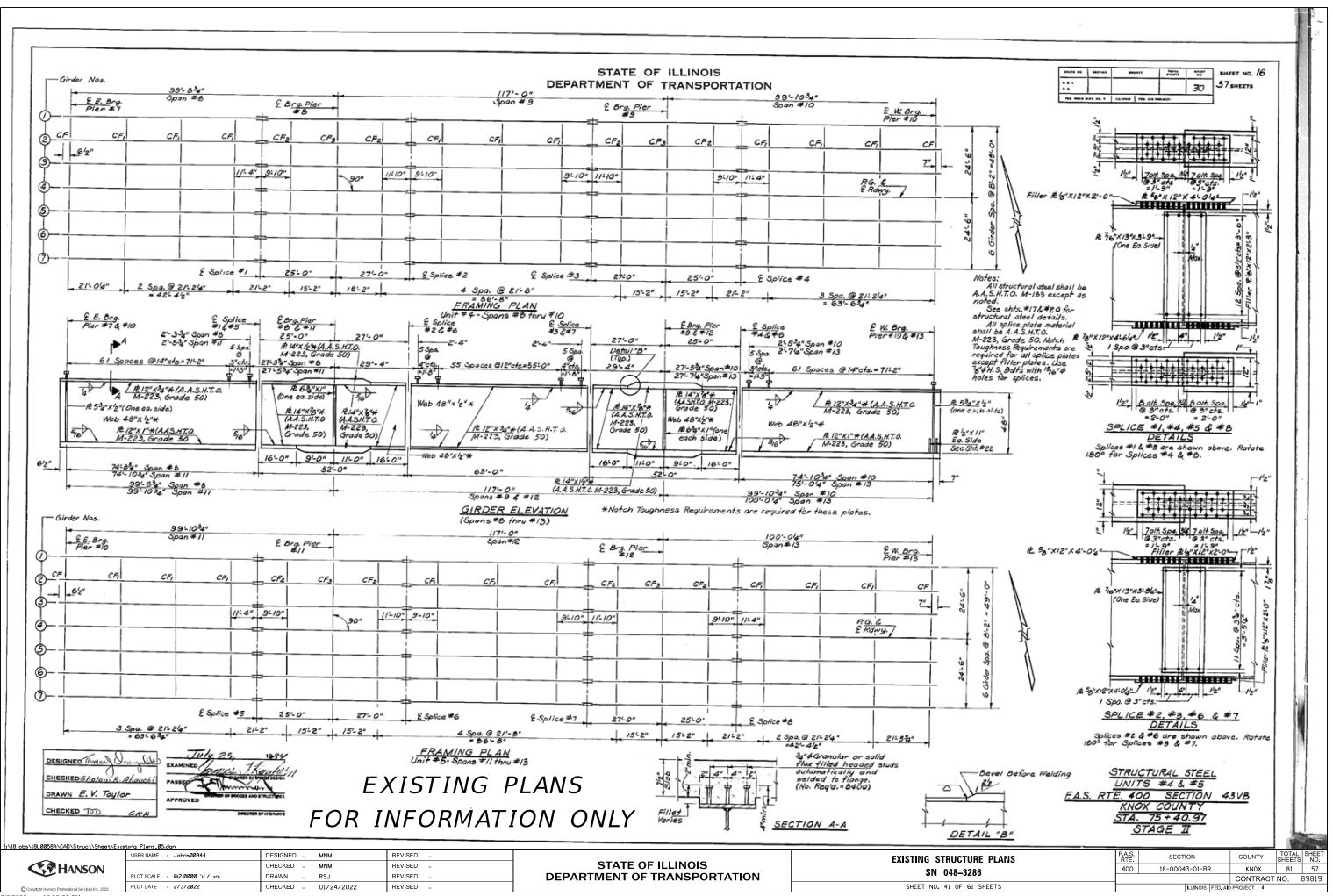
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DESIGNED DRAWN REVIEWED

•			7/	32	36 SHEET	
		INTERIO		D. 43pon	ENT TAB	
				0.6 5pon	*4 Pier	
		Is (in Ic (in		15,303. 38,324.		
		5s lin	3)	618.		
		50 (in. \$ (k)		883. 0.94		
		** MQ(4/1.3 0.33	778. 0.3.	
		** Ms Q	('k)	170.4	203.	
		** M4 (** Mimp		731.7		
		.53(M4	+I)('K)	1517.0	930	
Rowy.		** fs &non-		2728		
		** fs @ (con fs 3/4+1		2.31		
		fsloverla	od)(k.s.i.)	30.8	9 33.	
		++ VR (k		40.10		
Is and 5s are the m section used in computin	no fell	Total & Averlou	10).			
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composite section used	in com	outing fs (Tota	1 + Over	spon.		
Ma (Applied Momen	()=1.3	M & + Ms & +	23 (ME	MQ+Ms	Q+53/M	
ts (Dverload) is the . ts (Total) is the sum of	the stre	sses due to 1.3	M#+193	· · · · 3 [.	M = +1)	
		12 4 34	ba.@ ts.= 12"	3'4 4 5H		
		P	4		۳_	
		- <i>R</i>	-5×12	x2'-6'4		
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The Chip I" Horizontal		₽ ³ 8x./3"x 3'-9'			42'	
x 2 '4' Vertical		10ne Ea Sid	le/	14"	@ 54" cts. =	
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to bear					٩	
TION SECTION AT E.BRG	2					
PIER*3 PIER*2 & W. BRG.	AL +	5x12"x 2'64"	12 15p	4 1300	12	
PIER #4			@3"01			
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Grade	50. No	plate material tch Toughness	Requi	remen	ts are	
TNS for or	Il splice	plates. Use 8	\$ H. S. L	Solts w	1th 16.	
4 8/4.66 8/5.28						
9 815.41						
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TURE PLANS	F.A.S. RTE	SECTION	DD	COUN	SHEET	S NO.
3286	400	18-00043-01	- GK	CONTI	ACT NO.	55 89819
61 SHEETS		ILLING	IS FED. AI	PROJECT	4	



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05/06/21

MNM RSJ MNM

_		INTERIC	R GIRDER MC	MENT TABLE		1
			0.4 Sp.#8. 0.6 Sp.#10. 0.4 Sp.#11 & 0.6 Sp.#13		0.5 Sp.#9 & 0.5 Sp.#12	
	ls	(in4)	17036	30343	15303	
0	lc	(in+)	43860		38324	
	Ss	(in 3)	729.9	1189.9	6/8.3	
Ы	Sc	(in 5)	1030.9		883.5	
₹	2	(K/ft.)	0.967	0.969	0.97/	
	M Q	('K)	654.0	1256.1	404.6	**
ò	52	(K/ft.)	0.33/	0.33/	0.33/	
	Ms₽	(K)	254.2	354.1	212.3	
•	Mé	(K)	954.4	797.3	9/2.8	**
2	M (Imp)	('K)	212.2	171.0	188.6	**
5	53 (M2+1)	('K)	1944.3	1613.8	1835.7	
	Ма	('K)	3708.3	4191.2	3/88.3	
	fs { non-com	p(k.s.l.)	10.75	16.24	7.85	**
	fs ₽(comp)	(k.s.i.)	2.96		2.88	
	15 53 (2+1)	(k.s.j.)	22.63	16.27	24.93	
	fs (Overload)) (k.s.l.)	36.34	32.5/	35.66	
	fs (Total)	(k.s.i.)	47.24	42.26	46.36	
	VR	(K)	64.3		55.4	**

is and Ss are the moment of inertia and section modulus of the steel section used in computing fs

Ic and Sc are the moment of inertia and section

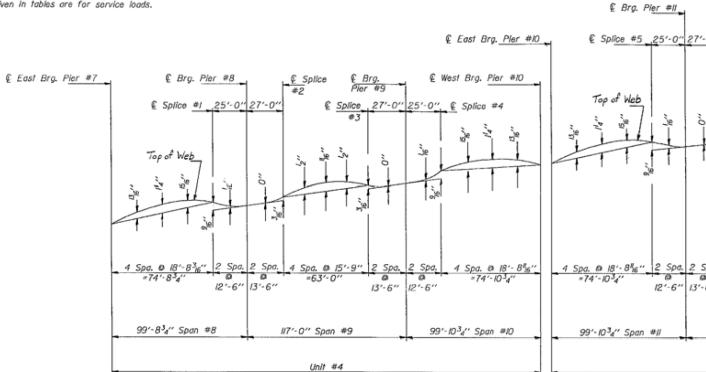
modulus of the composite section section used in computing fs (Total & Overload). VR is the maximum Live Load + impact shear range in span. Ma (Applied Moment)=1.3[M2 + Ms¹L + ⁵3(M¹L + 1)]. fs (Overload) is the sum of the stresses due to $M_{\pi}^{Q} + M_{\pi}^{Q} + \frac{1}{2}(M_{\pi}^{L} + 1)$. fs (Total) is the sum of the stresses due to $I.3LM_{\pi}^{Q} + M_{\pi}^{Q} + \frac{1}{2}(M_{\pi}^{L} + 1)$.

(Total & Overload).

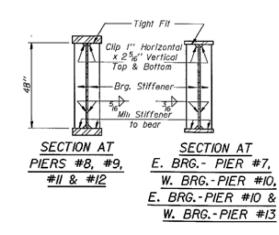
**INTERIOR GIRDER REACTION TABLE E.Brg.Pier#7, W.Brg.Pier#10, Plers#8,#9, E.Brg.Pier#10 & #11 & #12 W.Brg.Pier#I3 48.7 157.1 (K) (K) 38.9 65./ (K) 8.6 96.2 14.0 (K) 236.2 9 (Tote

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

** Values given in tables are for service loads.



CAMBER DIAGRAM



FOF

	· * TOP	OF WEB	ELEVAT	IONS	
		Grds.#1	Grds.#2	Grds.#3	Grd.#4
	€ East Brg. Pier #7	817.73	817.86	817.99	BIB, Í2
	€ Splice #I	8/8./6	818.29	818,41	818.54
2	© Brg. Pier #8	818.23	818.36	8/8.49	818.62
	€ Splice #2	8/8.39	8/8.52	818.64	818.77
in s	€ Splice #3	818.70	818.83	RIR.96	819.09
5	€ Brg. Pier #9	8/8.82	818.95	8/9.07	819.20
	€Splice #4	818.99	819.12	819.25	819.38
	€ West Brg. Pier #10	8/9.32	8/9.45	8/9.57	819.70
	€ East Brg. Pier #IO	8/9.36	819.49	8/9.6/	819.74
	€ Splice #5	819.75	8/9.88	820.01	820.13
P	€ Brg. Pier #il	8/9.8/	819.94	820.07	820.20
_	€ Splice #6	8/9.96	820.09	820.22	820.34
ŝ	€ Splice #7	820.16	820.29	820.42	820.55
9	€ Brg. Pier #I2	820.19	820.32	820.45	820.57
	€ Splice #8	820.29	820.41	820.54	820.67
	€ West Brg. Pier #/3	820.34	820.46	820.59	820.72

For Fabrication Only

Top of web elevations at splices have been adjusted for camber.

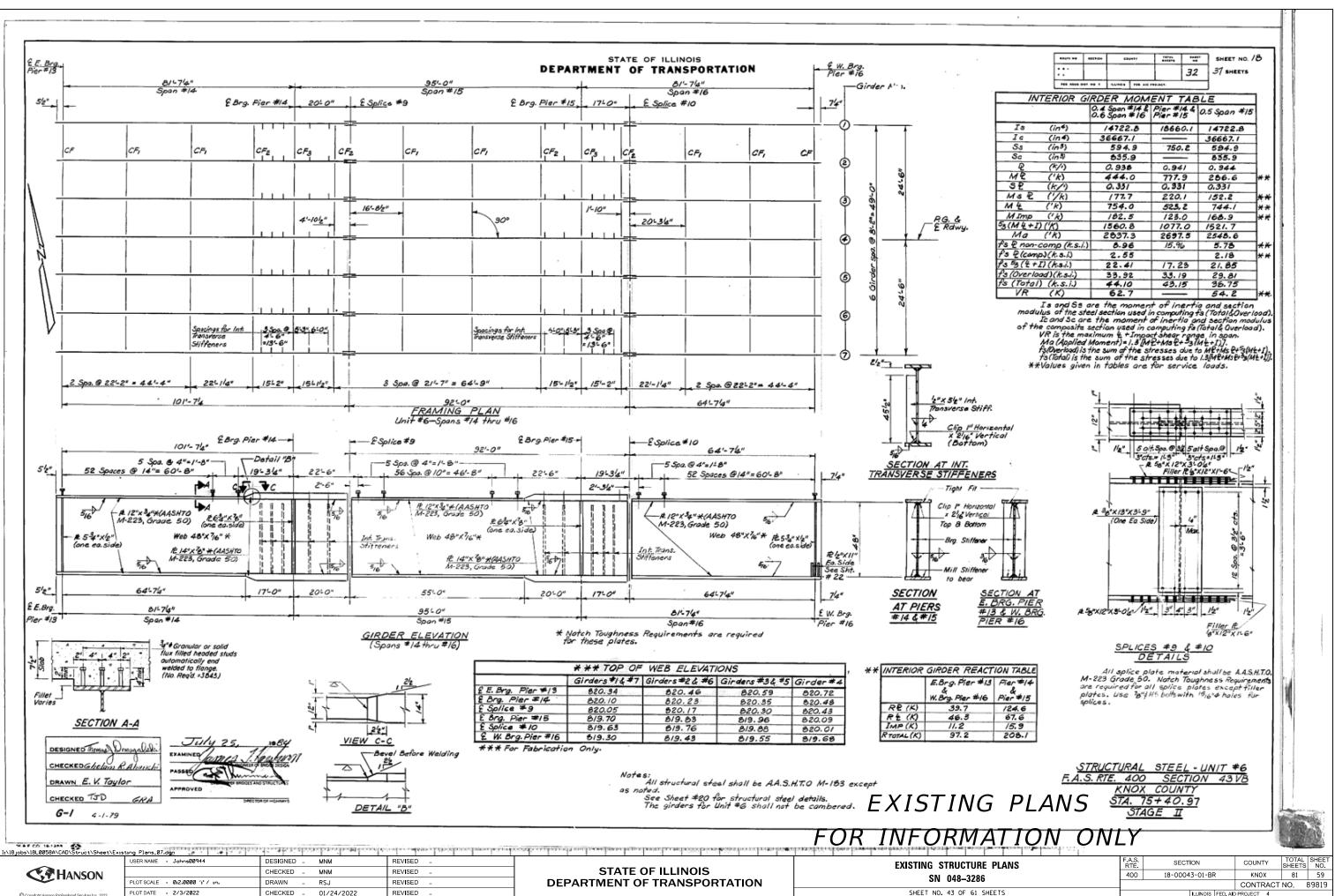


1/12/21 05/06/21 01/24/2022	CHECKED TSD	GRH	CORCEDE OF HERMANS			
MNM LSJ MNM	I:\18jobs\18L0058A\CAD\Struct\Sheet\Ex	usting Plans_06.dgn USER NAME = Johns00944	DESIGNED - MNM	REVISED _		
NED NED	HANSON		CHECKED _ MNM	REVISED _	STATE OF ILLINOIS	EXISTING STRUCTURE SN 048-3286
DESIGNE DRAWN REVIEWI		PLOT SCALE = 0:2.0000 ':" / in.	DRAWN – RSJ	REVISED _	DEPARTMENT OF TRANSPORTATION	3N 040-3200
	Copyright Hanson Professional Services Inc. 2022	PLOT DATE = 2/3/2022	CHECKED _ 01/24/2022	REVISED _		SHEET NO. 42 OF 61 S
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Spa. e 15'-9'' 2 Spa. 2 Spa. 4 Spa. e 18'-9'b'' 6'' ''''''''''''''''''''''''''''''''	50/12 HG. 5. 5. 1 7. 5. 760, 500 (10) -	6(2112)H COUNTY ML 7 D.L.ROTS FED. AD P	-1102	SHEET NO. 17 37 SHEETS	
EXISTING PLANS R INFORMATION ONLY STRUCTURAL STEEL DETAILS UNITS #4 & #5 F.A.S. RTE. 400 SECTION 43VB KNOX COUNTY STA. 75+40.97	Spo. 4 Spo. @ 15'-9'' 2 Spo. =6'' 13'-6''	25'-0" & Split	e #8		
	EXISTIN R INFORM	IATIO <u>STRUCTURAL</u> UNITS .S. RTE. 40 <u>KNO</u> STA.	N O STEEL D 5 #4 & #5 0 SECT X COUNTY 75+40.97	D <u>ETAILS</u>	

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URE PLANS	F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
286	400	18-00043-01-BR	KNOX	81	58
			CONTRACT	NO. 8	39819
61 SHEETS		ILLINOIS FED. AI	PROJECT 4		

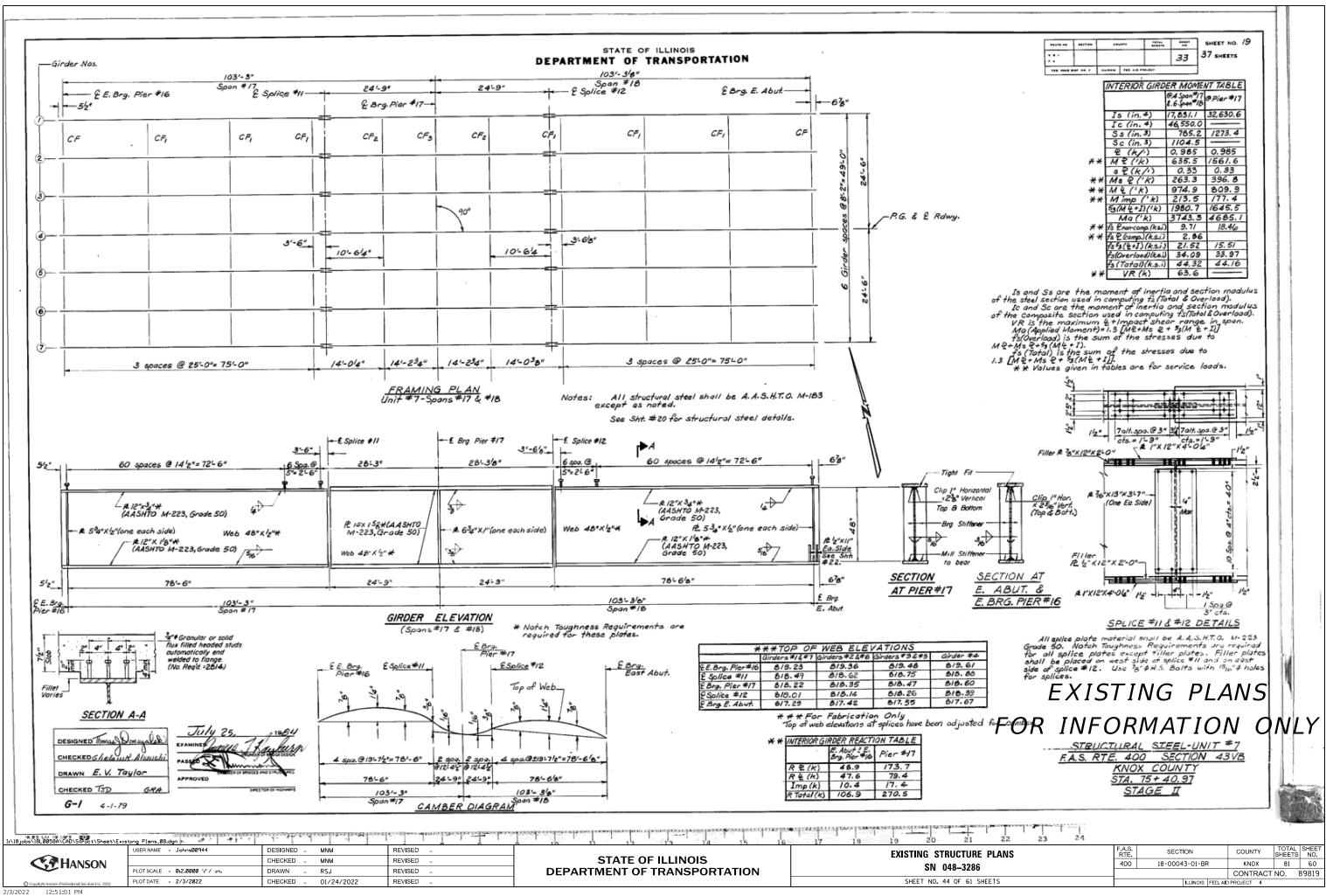


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MNM RSJ MNM

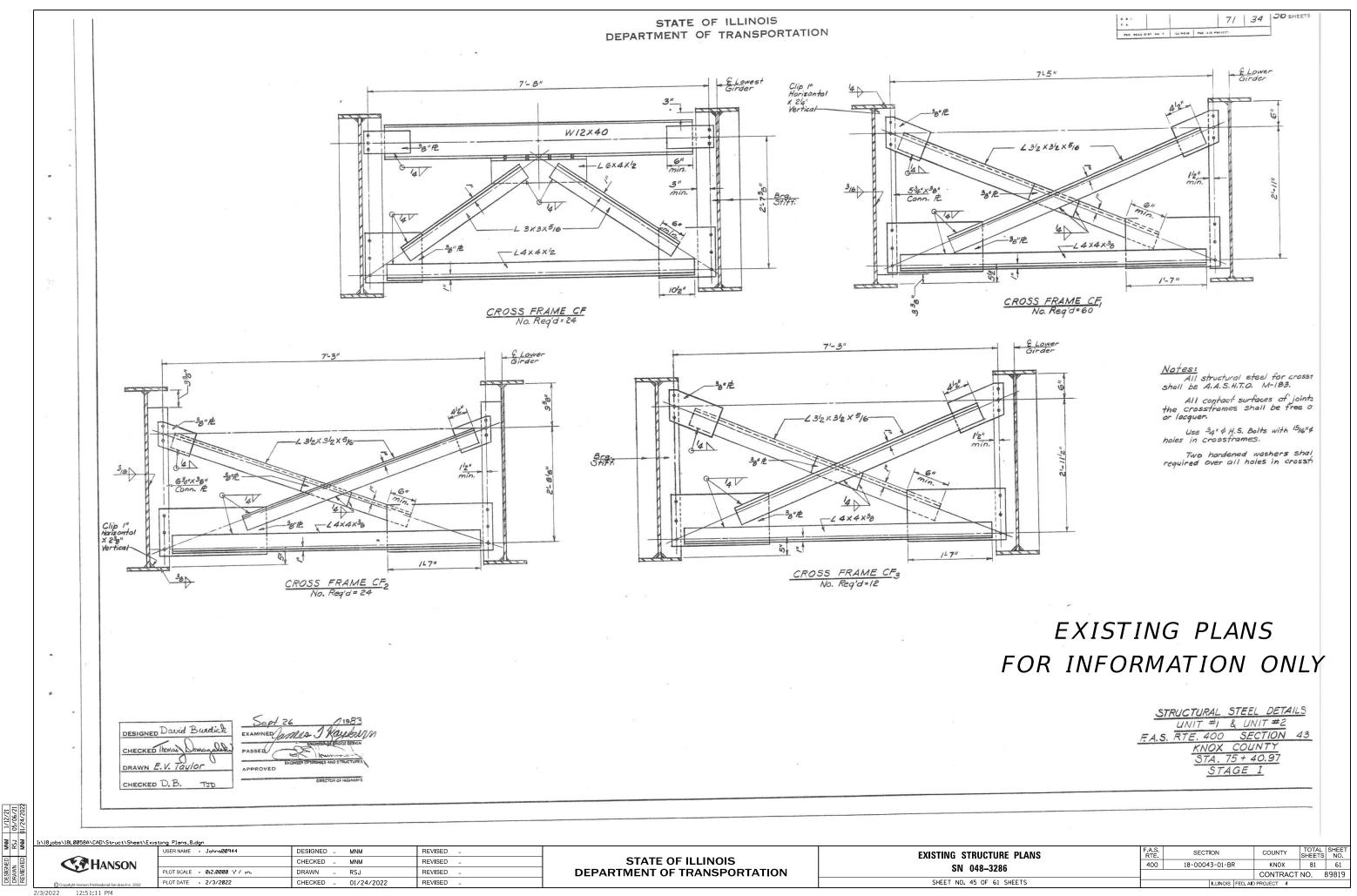
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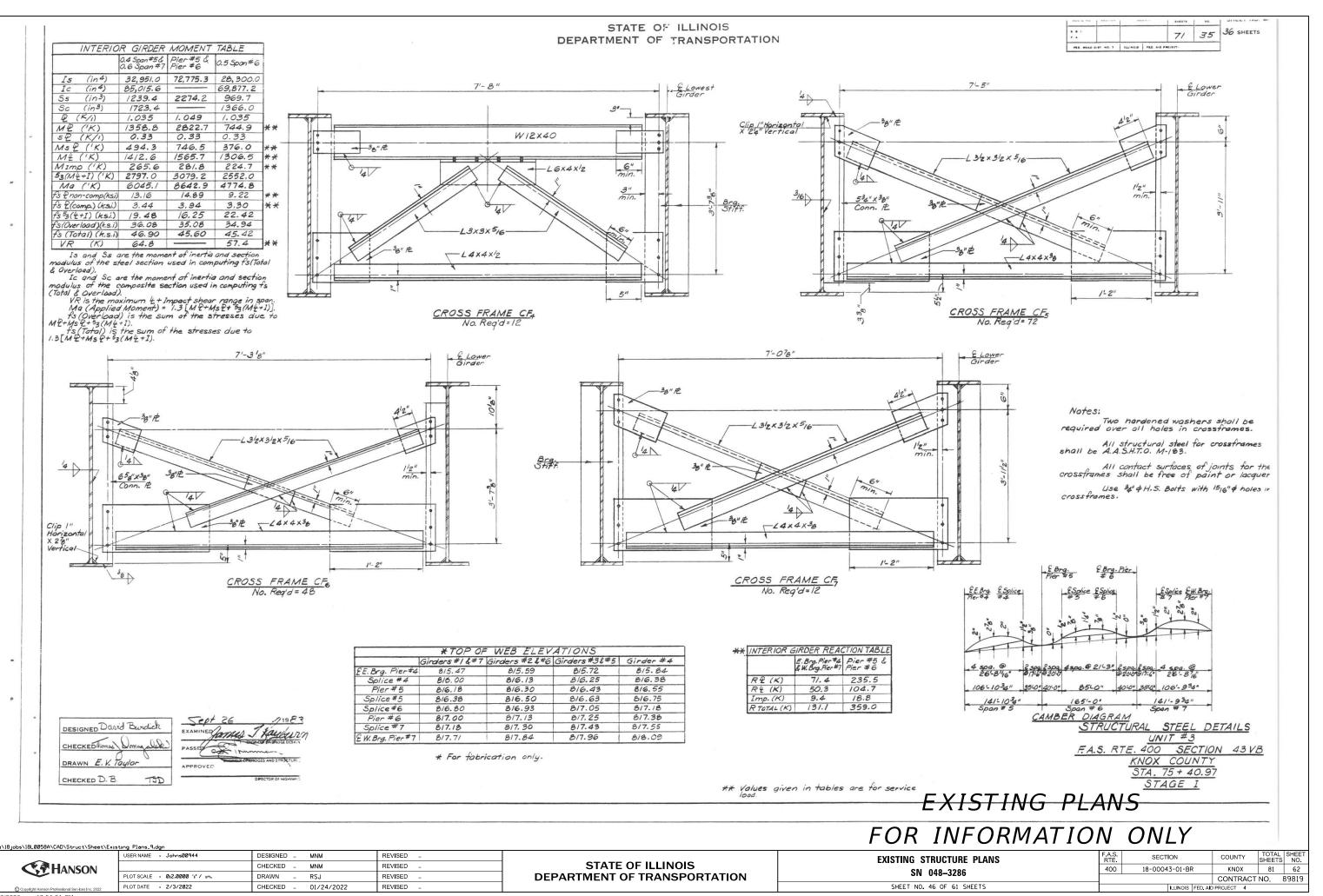
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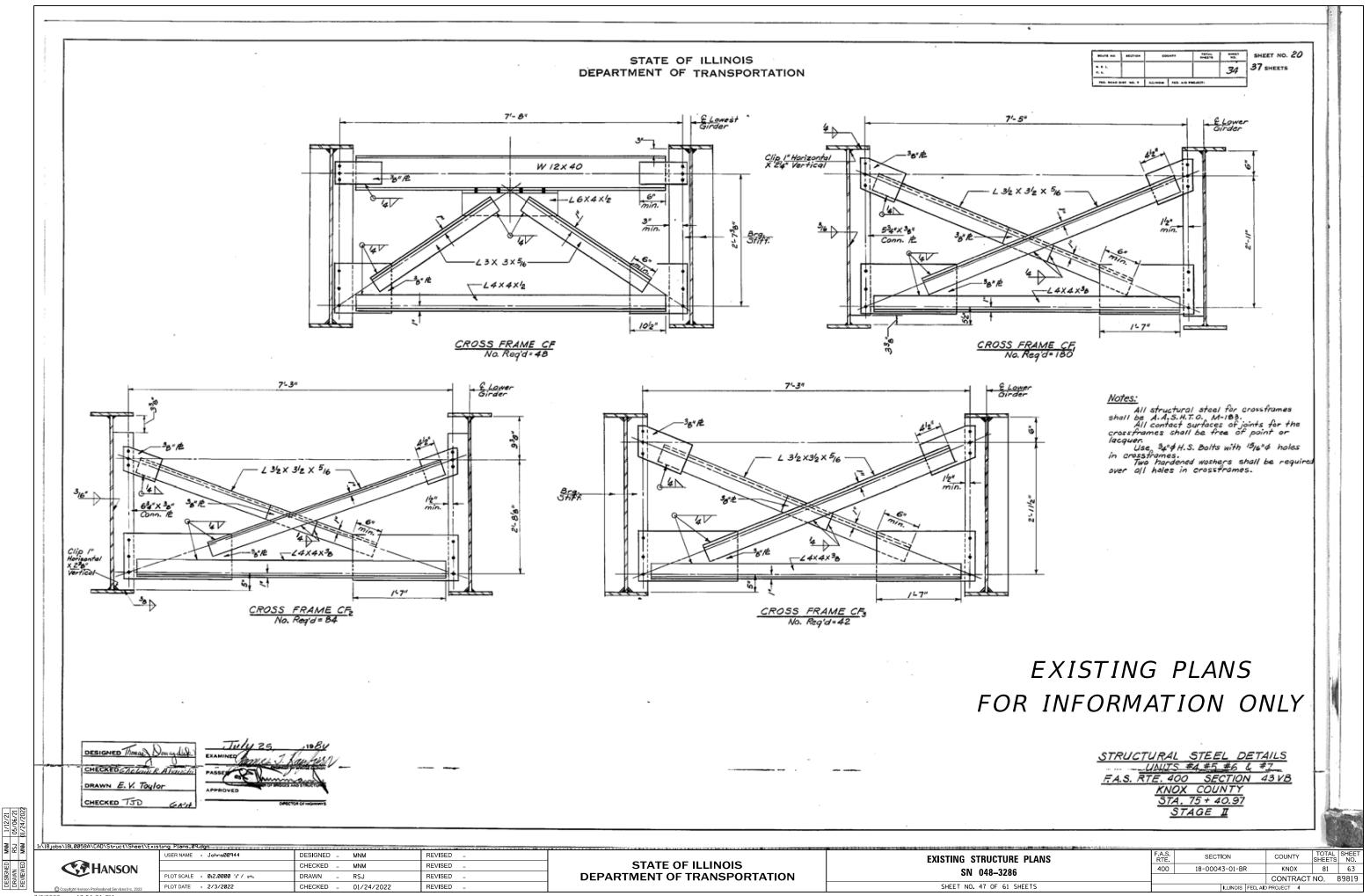


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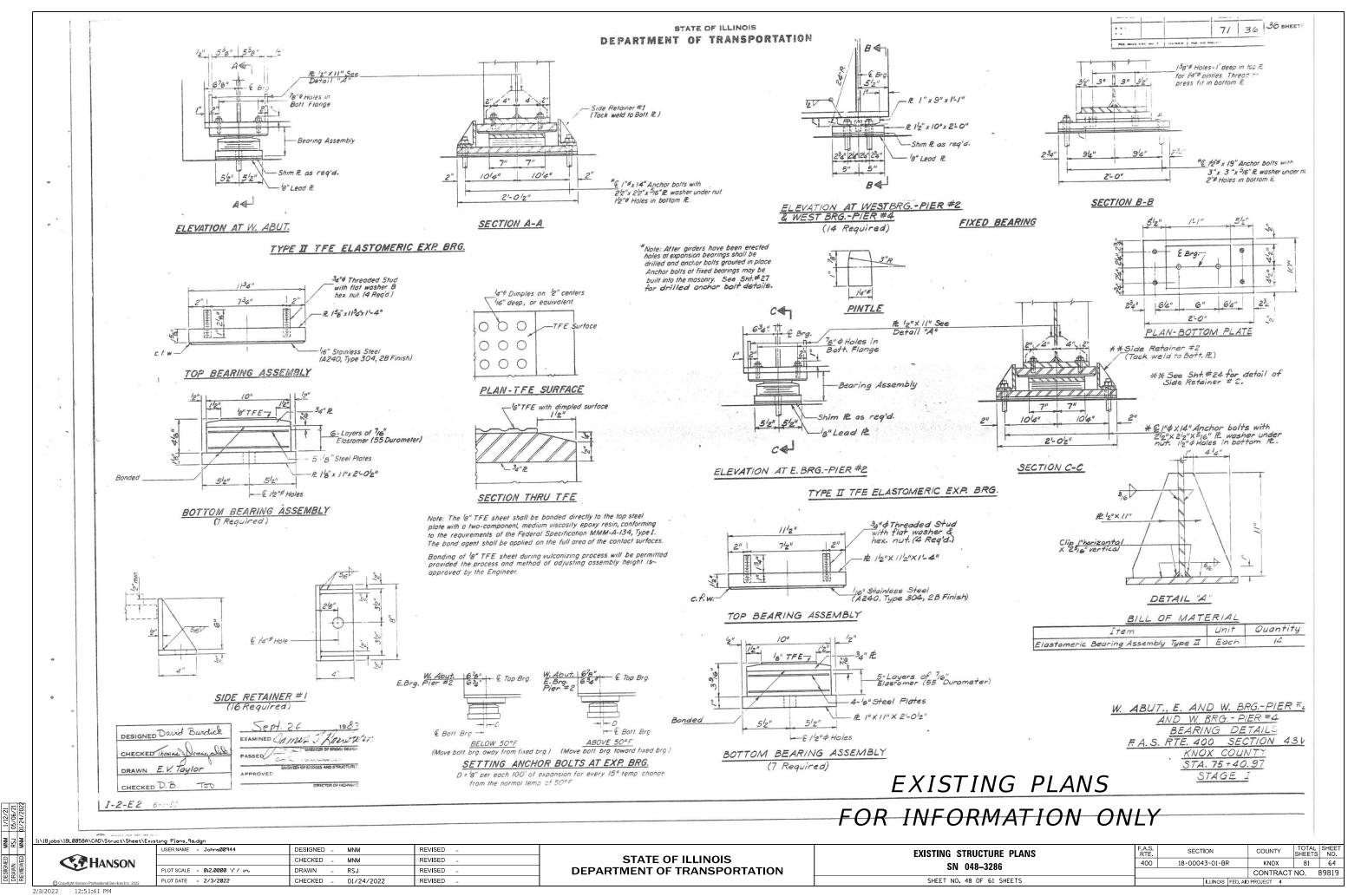
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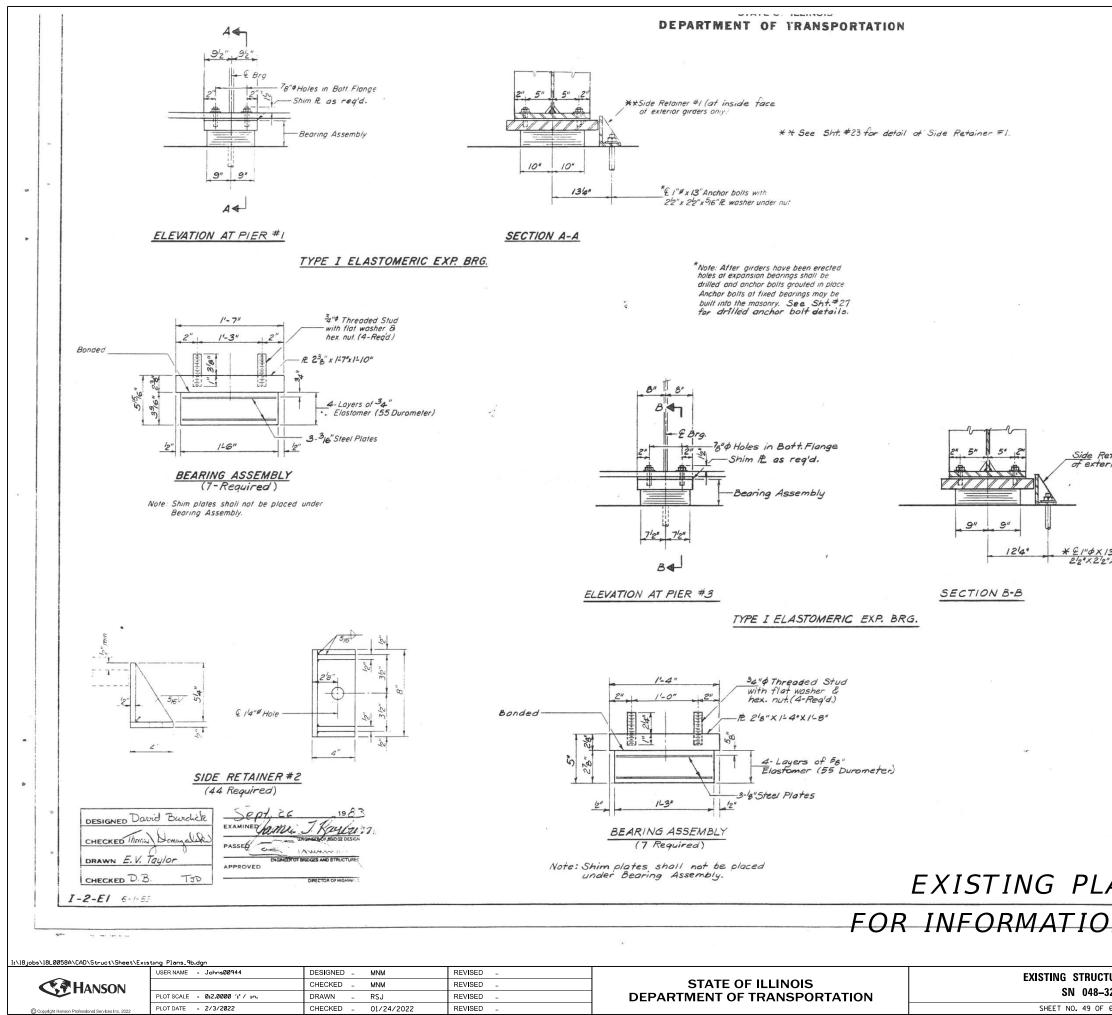
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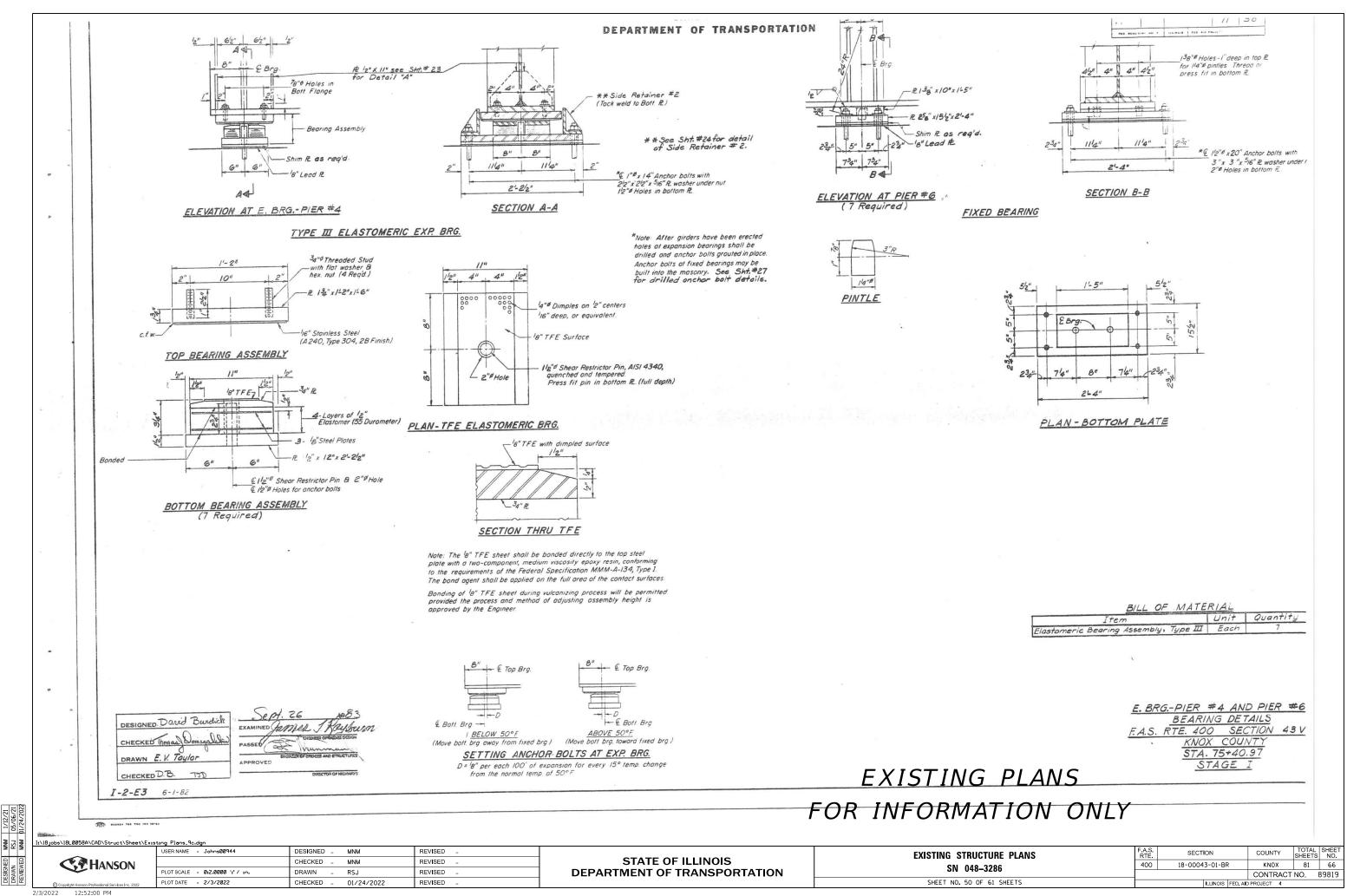
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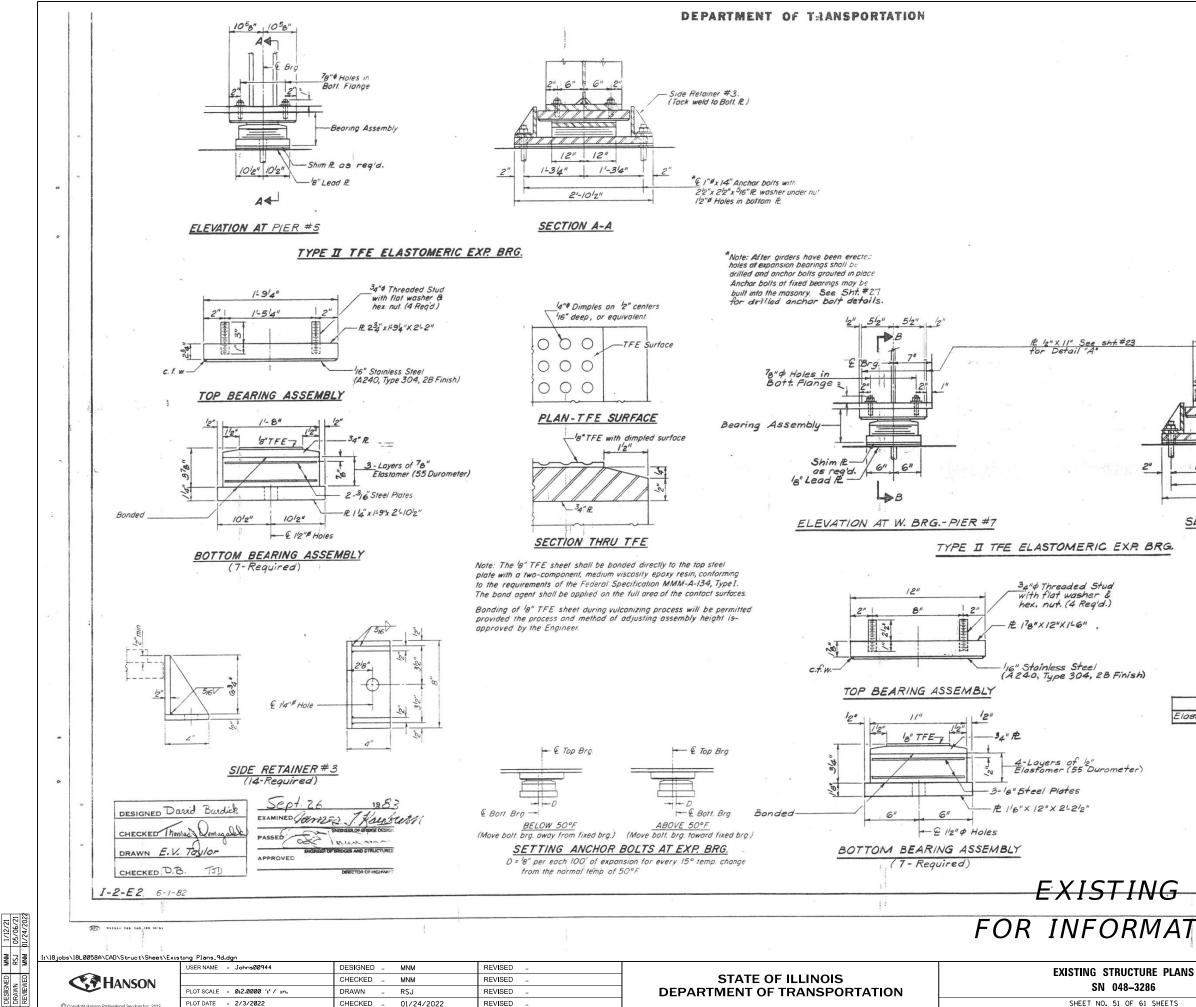
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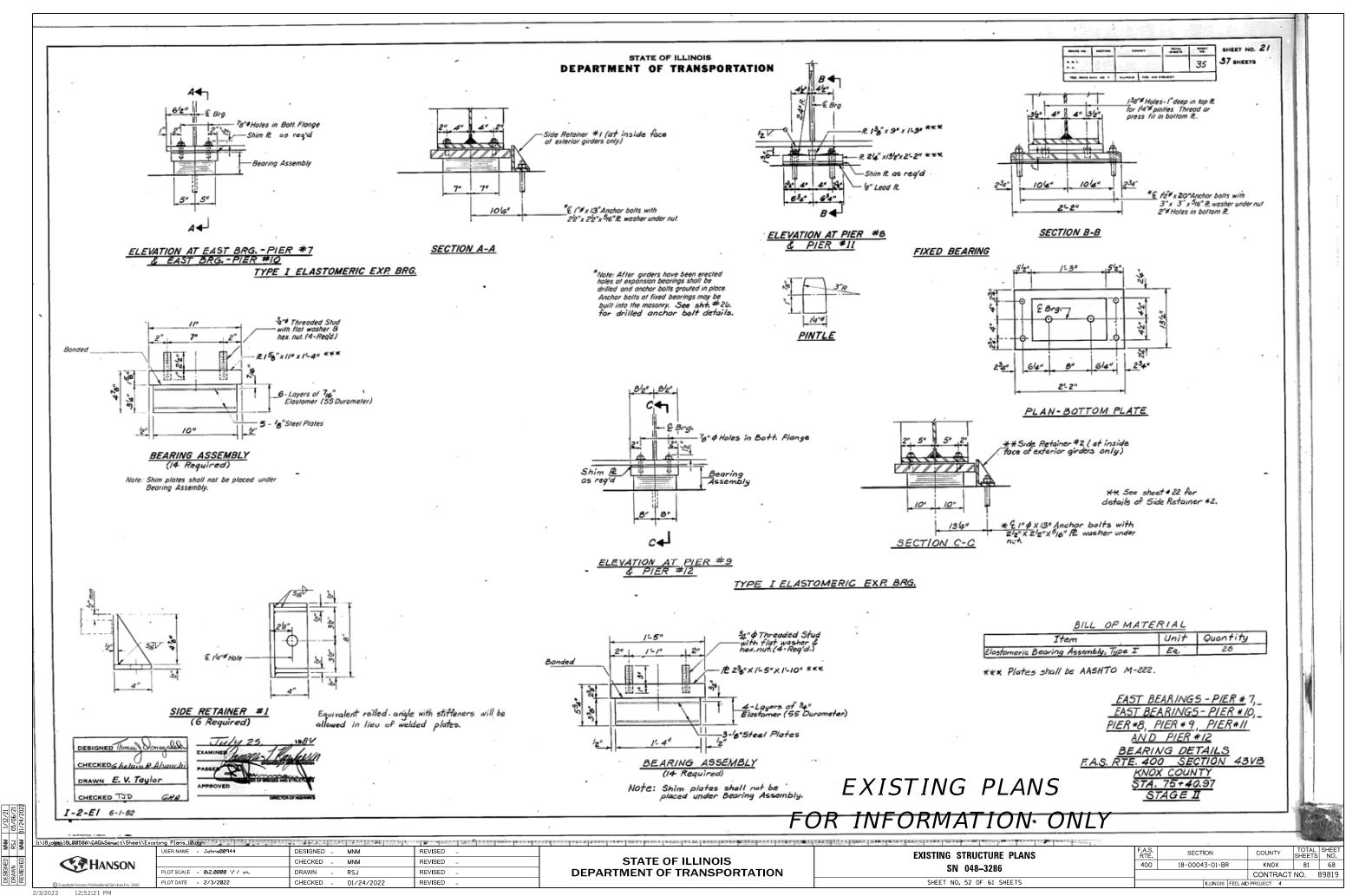
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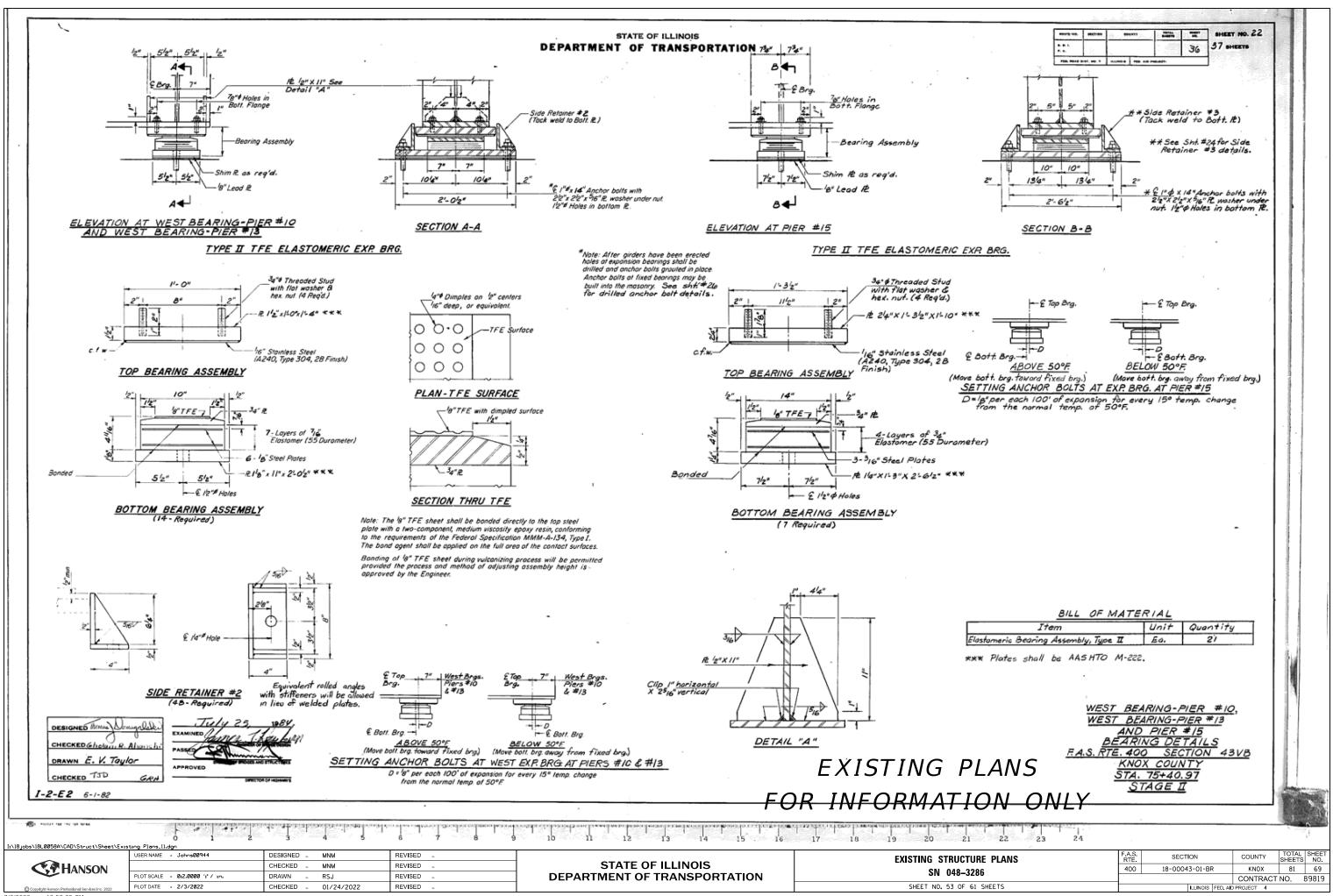
10	NO T ILLING		7/	3 7	36 SHEE	т5	
HB - 270 C							
					•.		
toiner #2(at inside face fior girders only)							
3" Anchor bolts with "X ⁵ 16" IE wosher under nut.							
8// /	OF M	ATERI	41				
<u>BILL</u> Item Elastomeric Bearing Assemb	ly, Type I		nit ach		ntity 14	7	
		-					
	PIER BE	#1 A1	VD P	IER #	±3		
<u></u>	<u>5. RTE.</u> K	400 (NOX (SEC	TION TY	43 VI	<u>8</u>	
ANS	57	NOX C A. 75 STA	;+ 40 GE). 97 I			
N ONLY						-	
URE PLANS	F.A.S. RTE. 400	SECTIO		0	OUNTY KNOX	TOTAL SHEETS 81	SHEET NO. 65
61 SHEETS			LLINOIS FE		ONTRACT		89819





7/ 39 00 BHEETS PED. BOAD DIST. BO 7 ILLINOIS PEG AID P ** Side Retainer #2 Tack weld to Bott 12) ** See Sht. #24 for detail of Side Retainer #2. 8" 8" 2" 114" 1144 1" \$ x 14" Anchor bolts with 21/2" × 21/2" × 516" FE washer under nut. 2-2/2" 1/2" & Holes in bottom R. SECTION B-B BILL OF MATERIAL Unit Quantity Item Elostomeric Bearing Assembly, Type I Each 14 PIER #5 AND W. BRG. - PIER #7 BEARING DETAILS F.A.S. RTE. 400 SECTION 43VB KNOX COUNTY STA. 75 + 40.97 STAGE EXISTING PLANS FOR INFORMATION ONLY 調整 .A.S. RTE TOTAL SHEE SHEETS NO. SECTION COUNTY 400 18-00043-01-BR KNOX 81 67 CONTRACT NO. 89819 ILLINOIS FED AID PROJECT 4



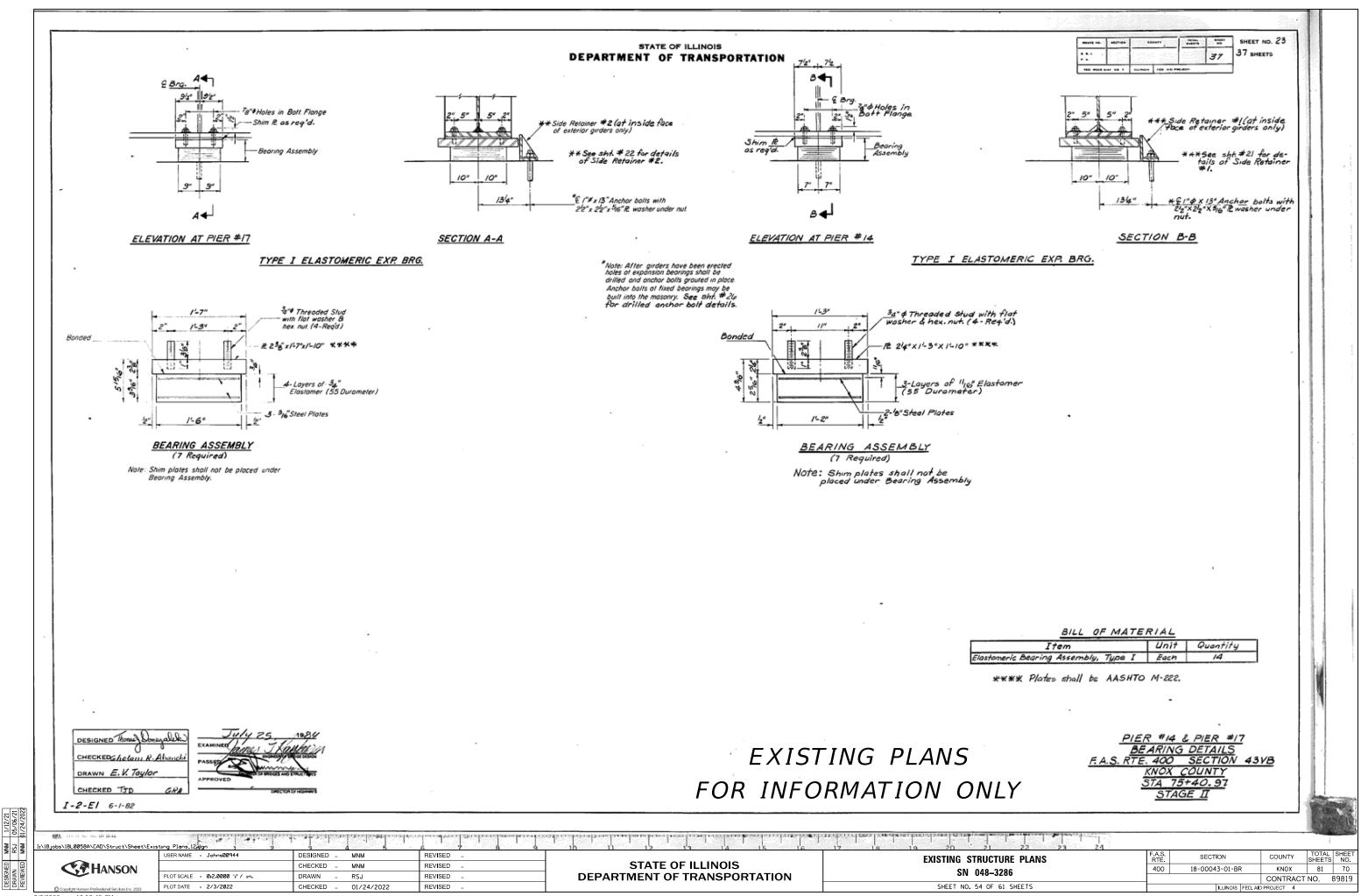


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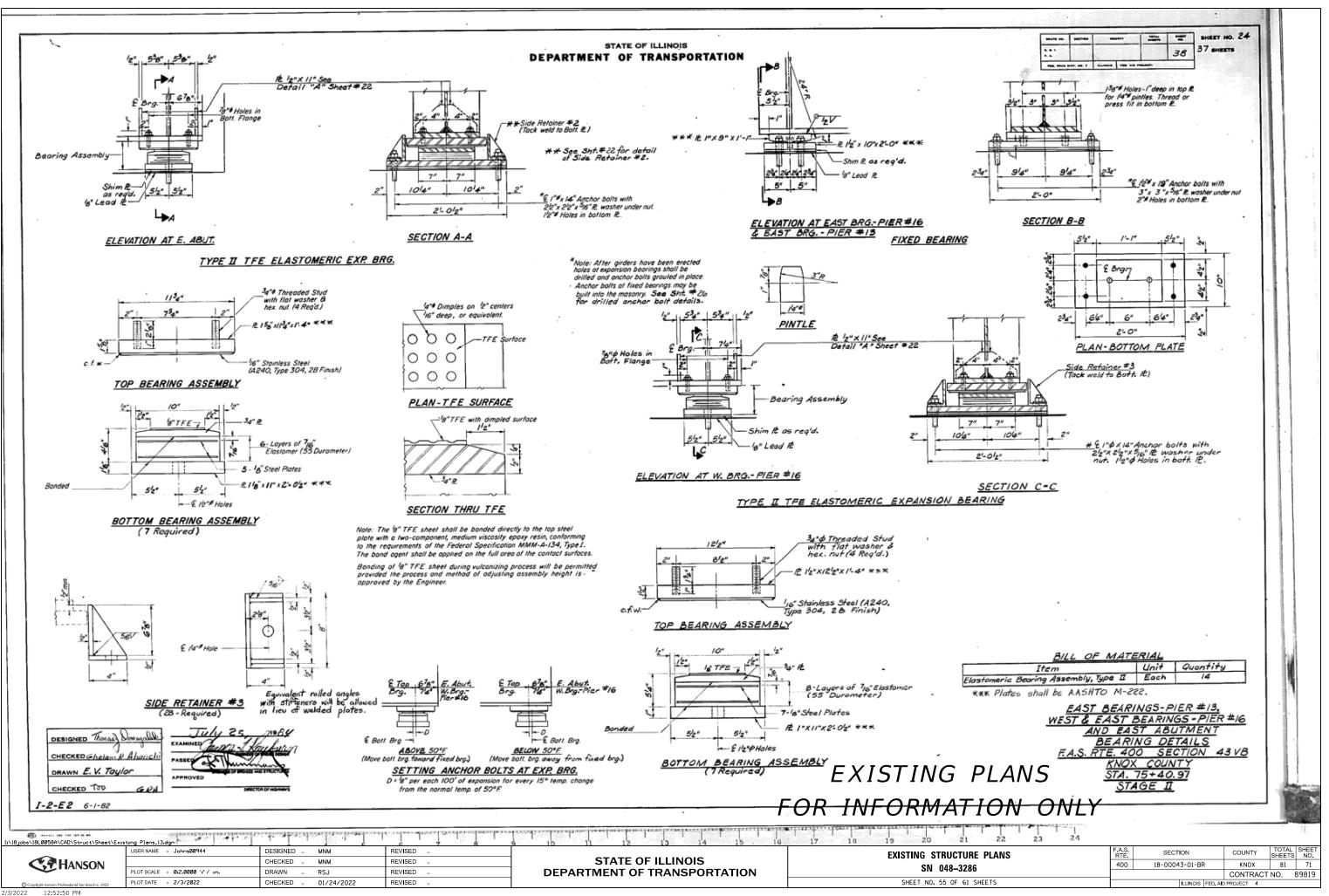
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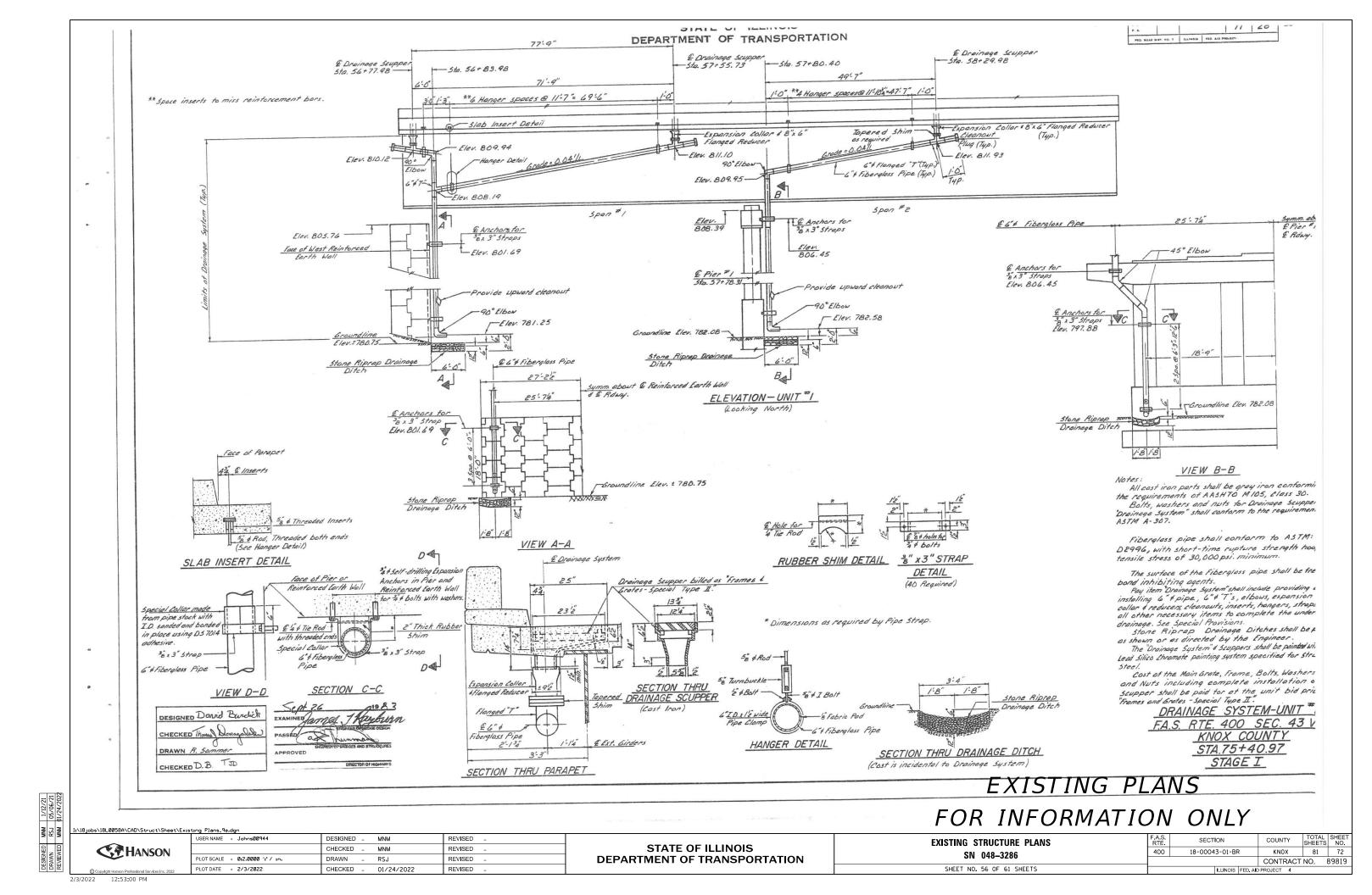


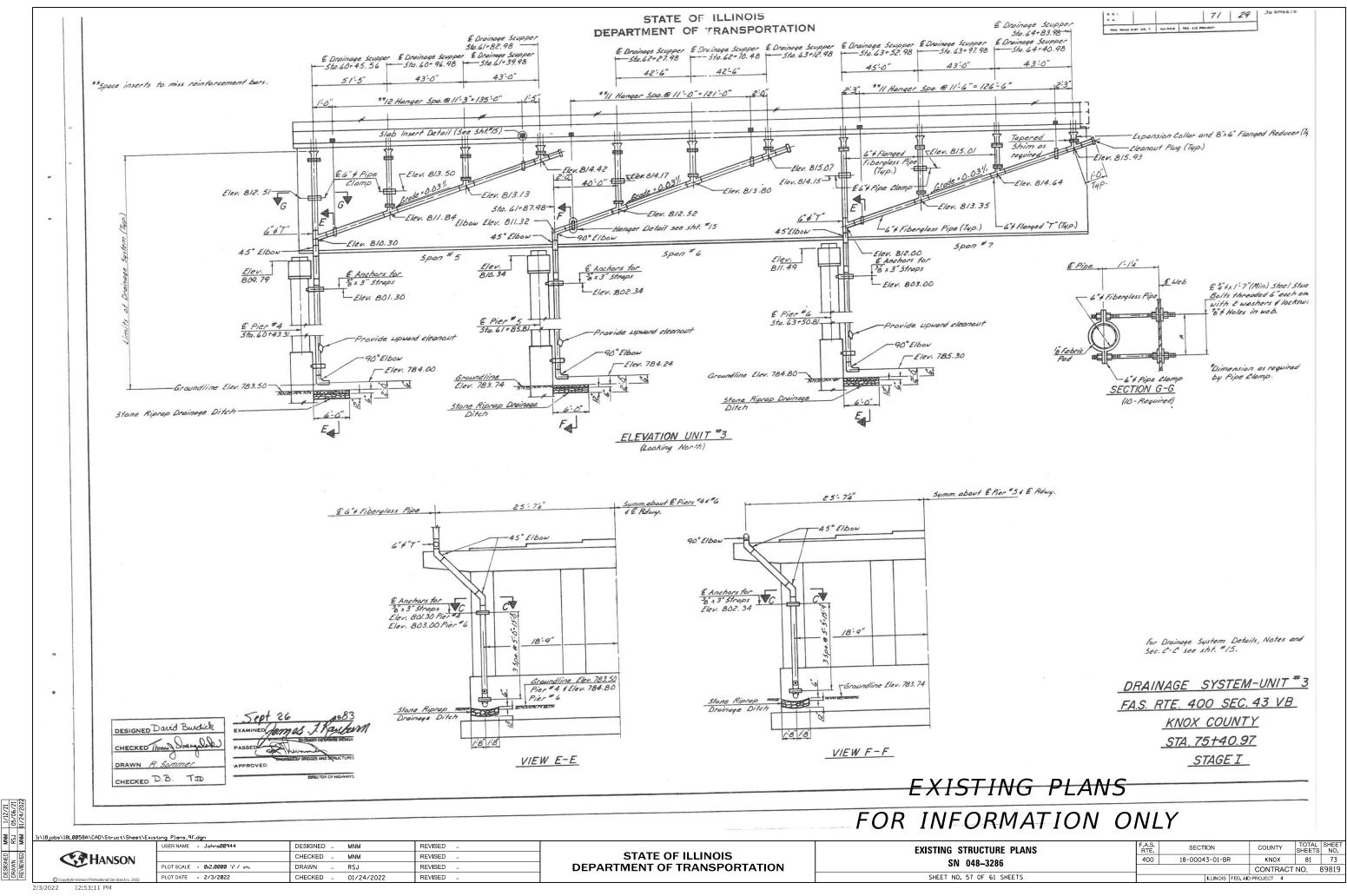
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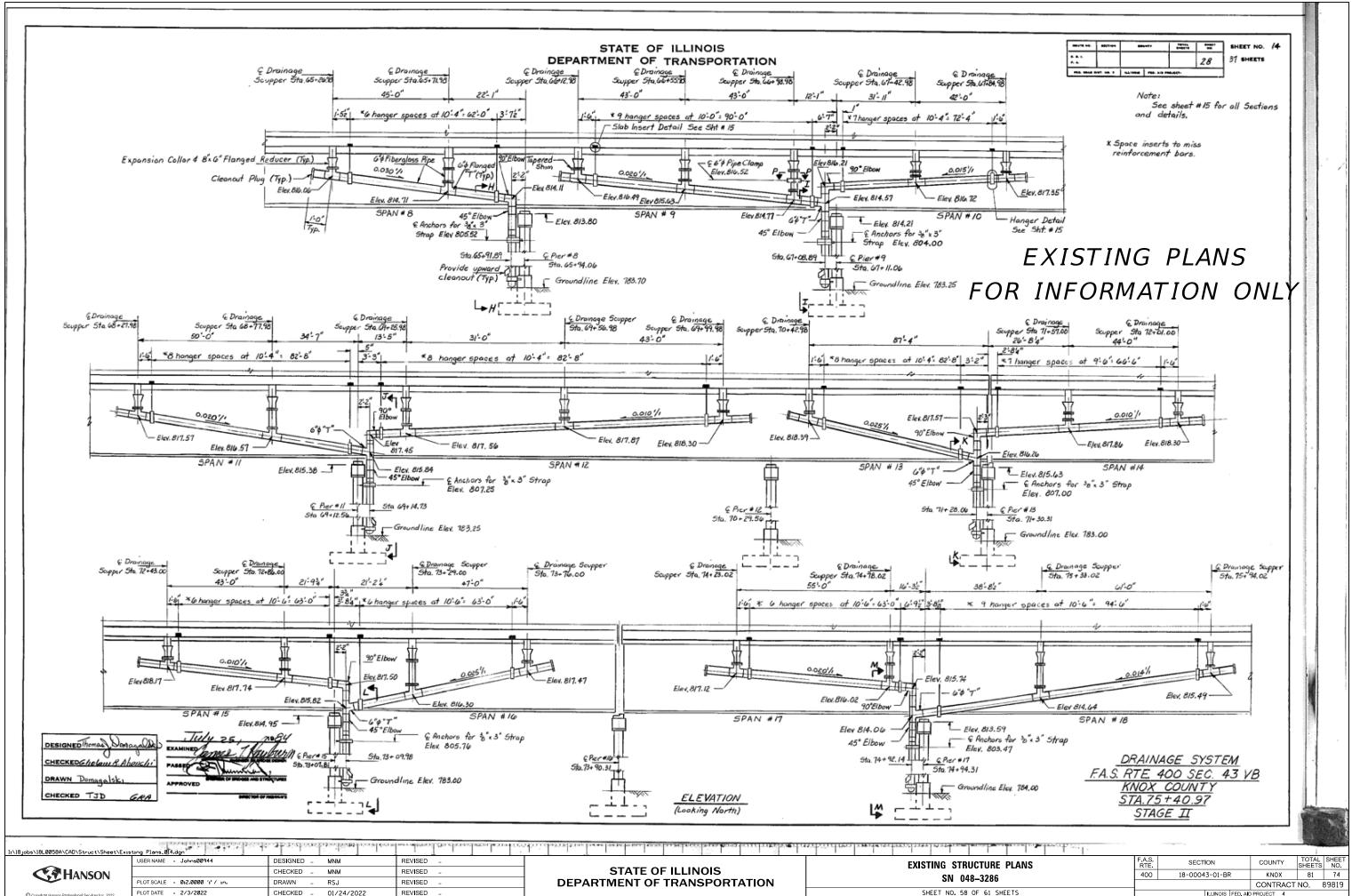


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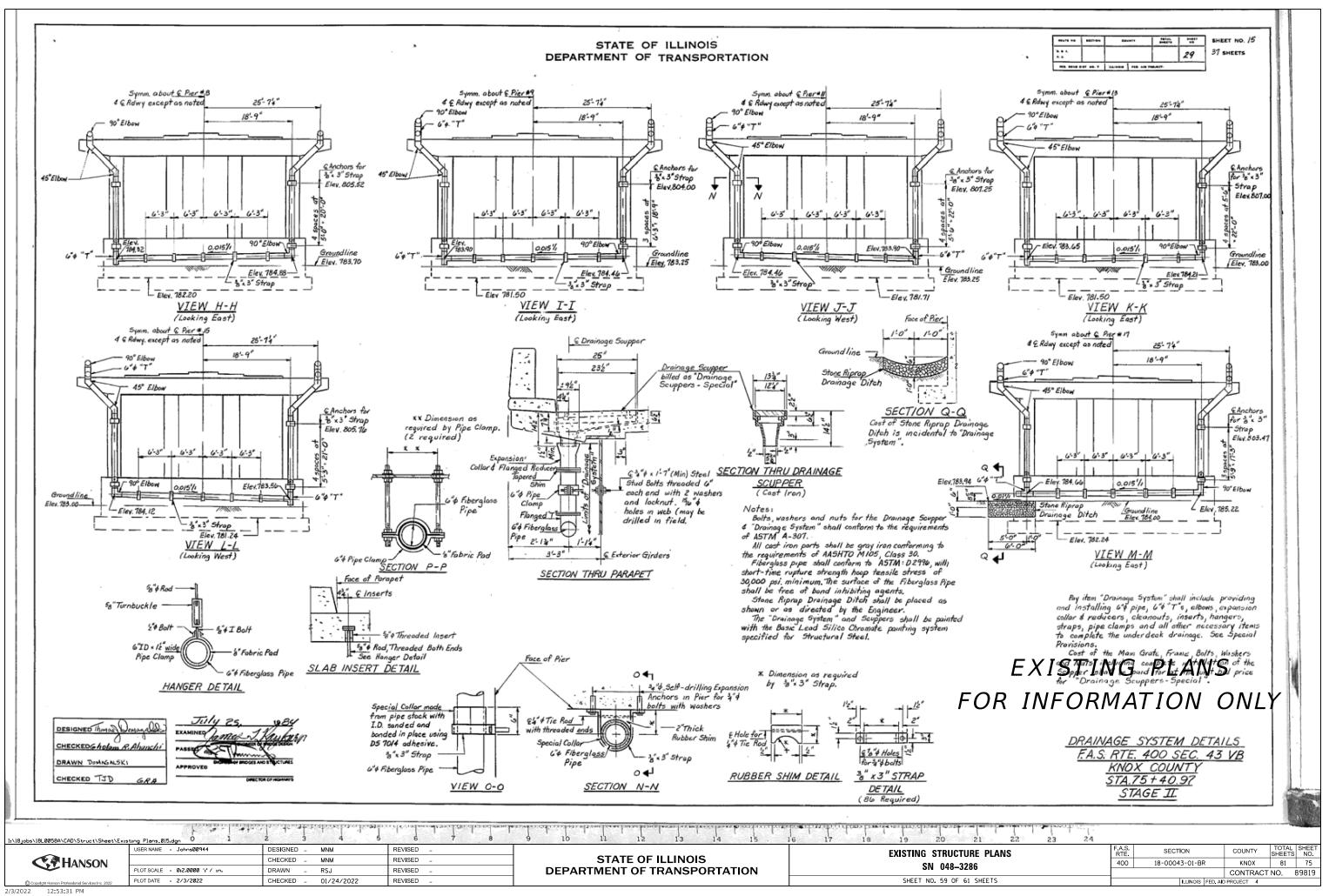


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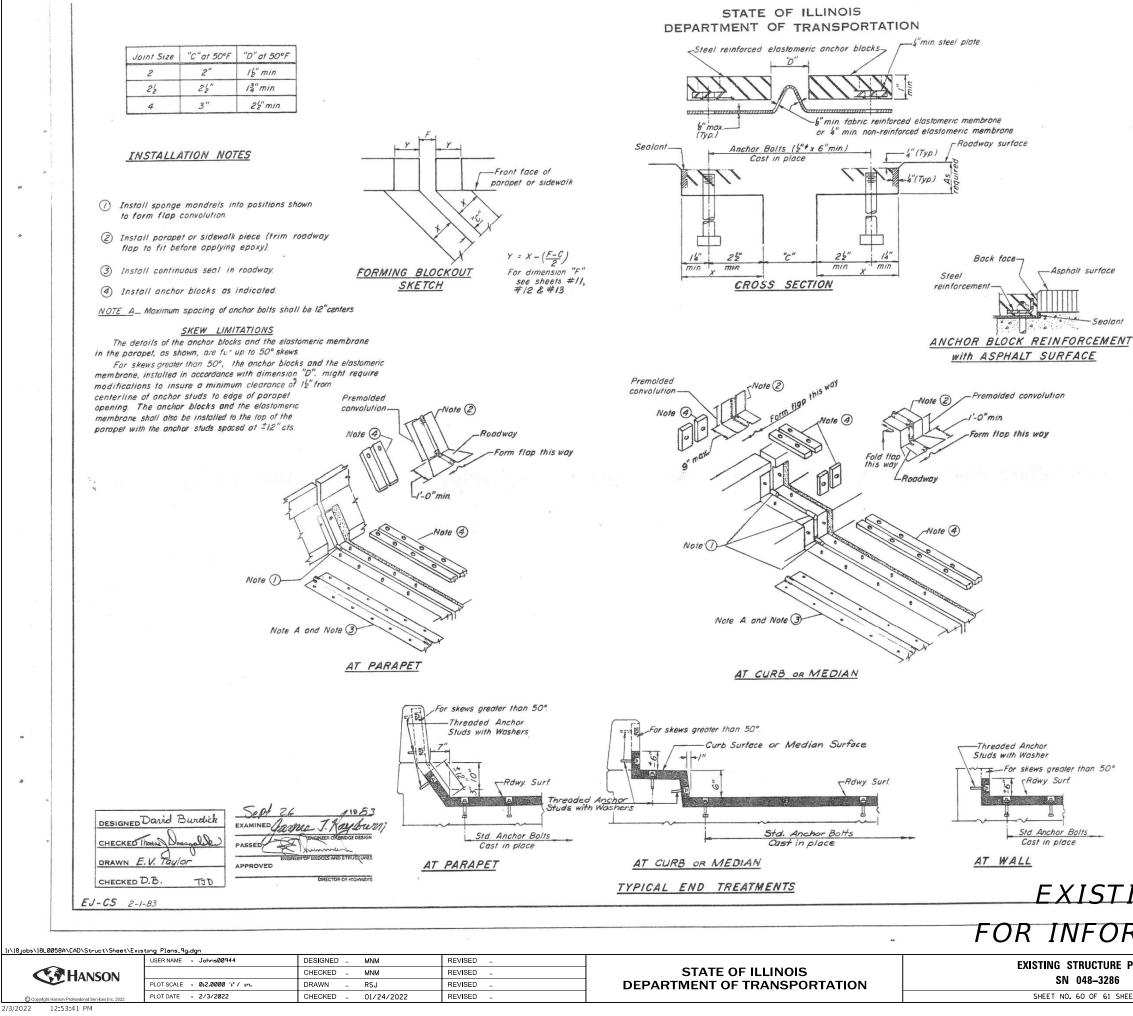
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DESIGNED DRAWN REVIEWED



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BOUTE ND BECTION	COUNTY		NO	
6. K. 1 7. A.		71	30	36SHEET!
		RDJECT]

GENERAL NOTES

Continuous Seal Neoprene Expansion Joint shall consist of molded an. blocks of elastomer and steel, field assembled over continuous lengths o elastomeric membrane. See Special Provisions.

The elastomeric membrane shall be premolded with a single or a

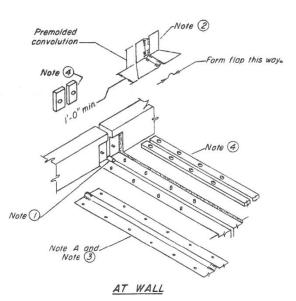
double upward convolution that will have a "memory" to return to its mor position upon joint closure.

The steel reinforcement must extend up the back face of anchor b when asphalt surfaces are used but is optional in concrete blockout.

The convolution length shall be such that the extended length will not greater than the manufactured length when the joint is fully expanded in its design range and will not protrude above the anchor blocks when the joint is fully compressed.

Joint openings shall be adjusted in accordance with Article 503.07(c) of th. Standard Specifications when the deck is poured at an ambient temperature othe than 5Q° F.

The parapet and sidewalk flaps may be furnished factory vulcanized to t. roadway membrane provided the centerline of the convolution is maintained at the process and method meet the approval of the Engineer



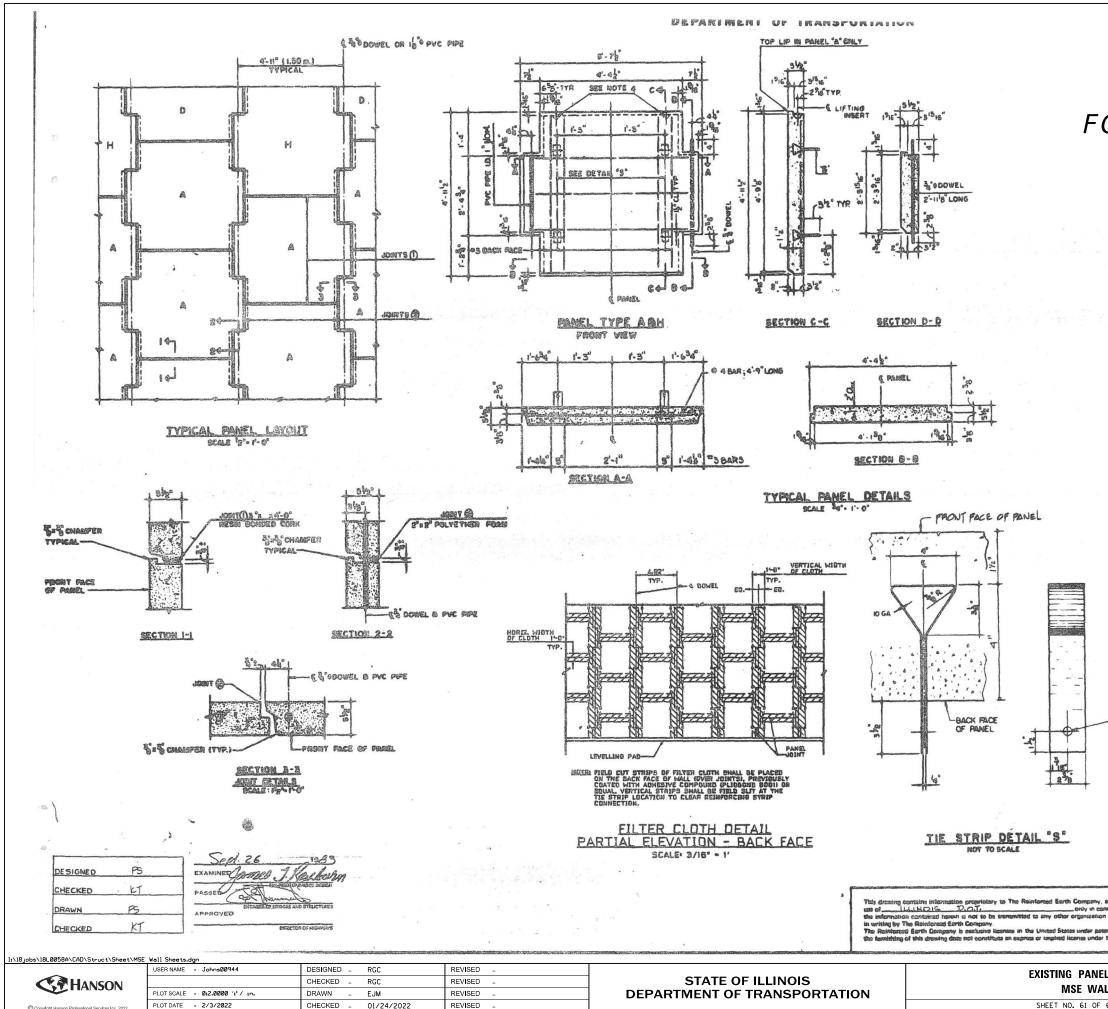
CONTINUOUS SEAL TYPE NEOPRENE EXPANSION JOINT For 2", 22" and 4" Movement

F.A.S. RTE. 400 SECTION 4 KNOX COUNTY STA. 75+40.97 STAGE I

EXISTING PLANS

FOR INFORMATION ONLY

FURE PLANS 3286		SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
		18-00043-01-BR			KNOX	81	76
3200					CONTRACT	NO. 8	39819
61 SHEETS	ILLINOIS FED AID PROJECT 4						



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DESIGNED DRAWN REVIEWED

SHEET NO. 61 OF

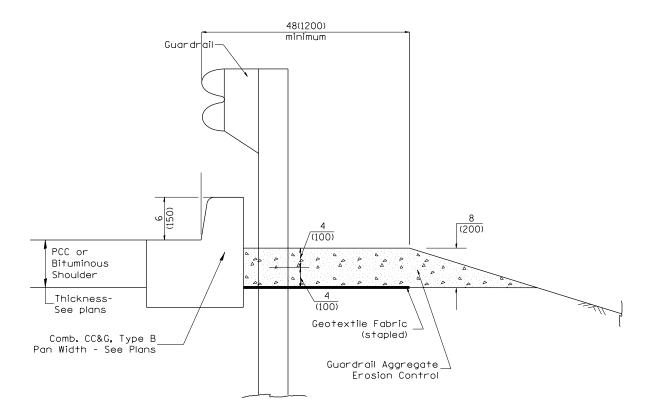
EXISTING PLANS FOR INFORMATION ONLY

NOTE

- REINFORCING STEEL TO BE STEEL A 615 GRADE 60.
- 2 38" " 38" CHANFER SHALL BE PROVIDED ON ALL EXPOSED EDGES (FRONT FACE ONLY)
- 3. ALL RANELS AND OTHER RELATED ELEMENTS WILL BE DETAILED ON SHOP DRAWINGS.
- 4. ONE TON LIFTING INSERTS.
- 9 RANEL DESIGN THICKNESS IS 5 1/2 CUANTITY OF CONCRETE WELL SUCREASE TO ACCOMMODATE ANY ARCHITECTURAL SUFFACE FINISH THAT MAY BE SPECIFIED.

Sto DIA HOLE			<u>F</u> .	.A.S. F		400 NOX COL	<u>SECTION</u> INTY	43
					And in case of the local division of the loc	A. 75+4 STAGE	and the second se	
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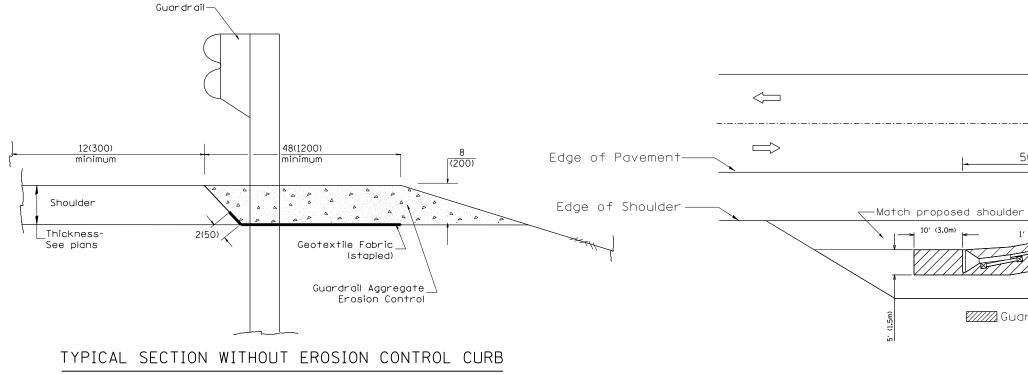
	N/L				OTILETO	1101
LLS		18-00043-01-BR	KNOX	81	77	
				CONTRACT	NO.	89819
61 SHEETS		ILLINOIS F	ED, AIC	PROJECT 4		



TYPICAL SECTION WITH COMBINATION CONCRETE CURB & GUTTER

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

- 2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
- 3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
- 4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
- 5. The Contractor shall have the option of placing the guardrail before or filled and the aggregate returned to line and grade.
- 6. Materials shall meet the following requirements:
- A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
- B. The Geotextile Fabric shall be nonwow Article 1080.02 of the Standard Spec



USER NAME = Johns00944	DESIGNED -	REVISED -		6		FROSIO		ROL TREATIN	AFNTS	F.A.S. BTF	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
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PLOT DATE = 2/3/2022	DATE - 01/24/2022	REVISED -		SCALE:	SHEET 1	OF 2	SHEETS	STA.	TO STA.		ILLINOIS FED, A	AID PROJECT	



1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.

after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be

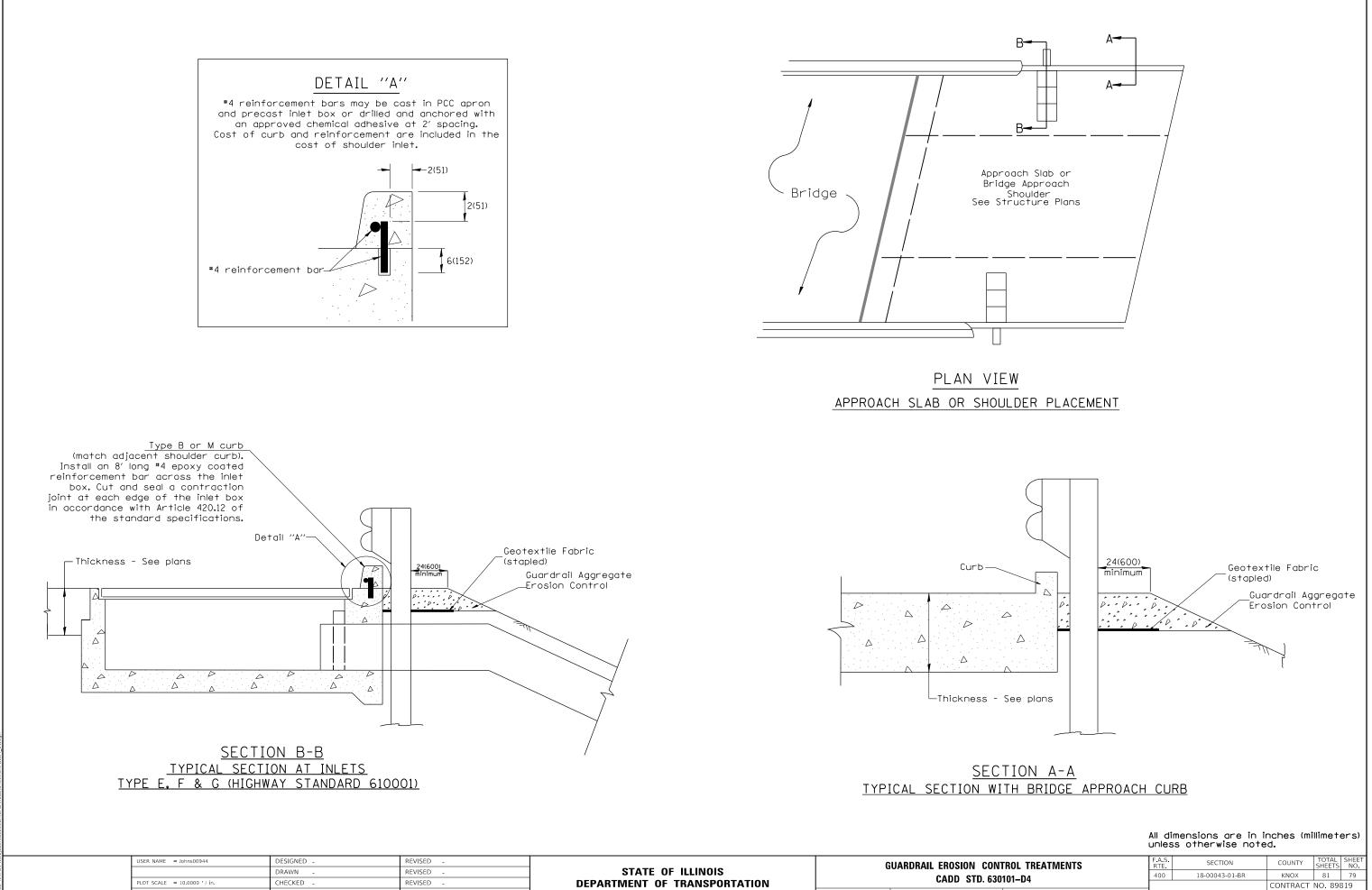
ven	fabric	in	accordance	with
cific	cations.			

50'-0" (15.2m) typ.

──Match proposed shoulder material (HMA or Aggregate)

Guardrail Aggregate Erosion Control

All dimensions are in inches (millimeters) unless otherwise noted.



Hanson Professional Services Inc.

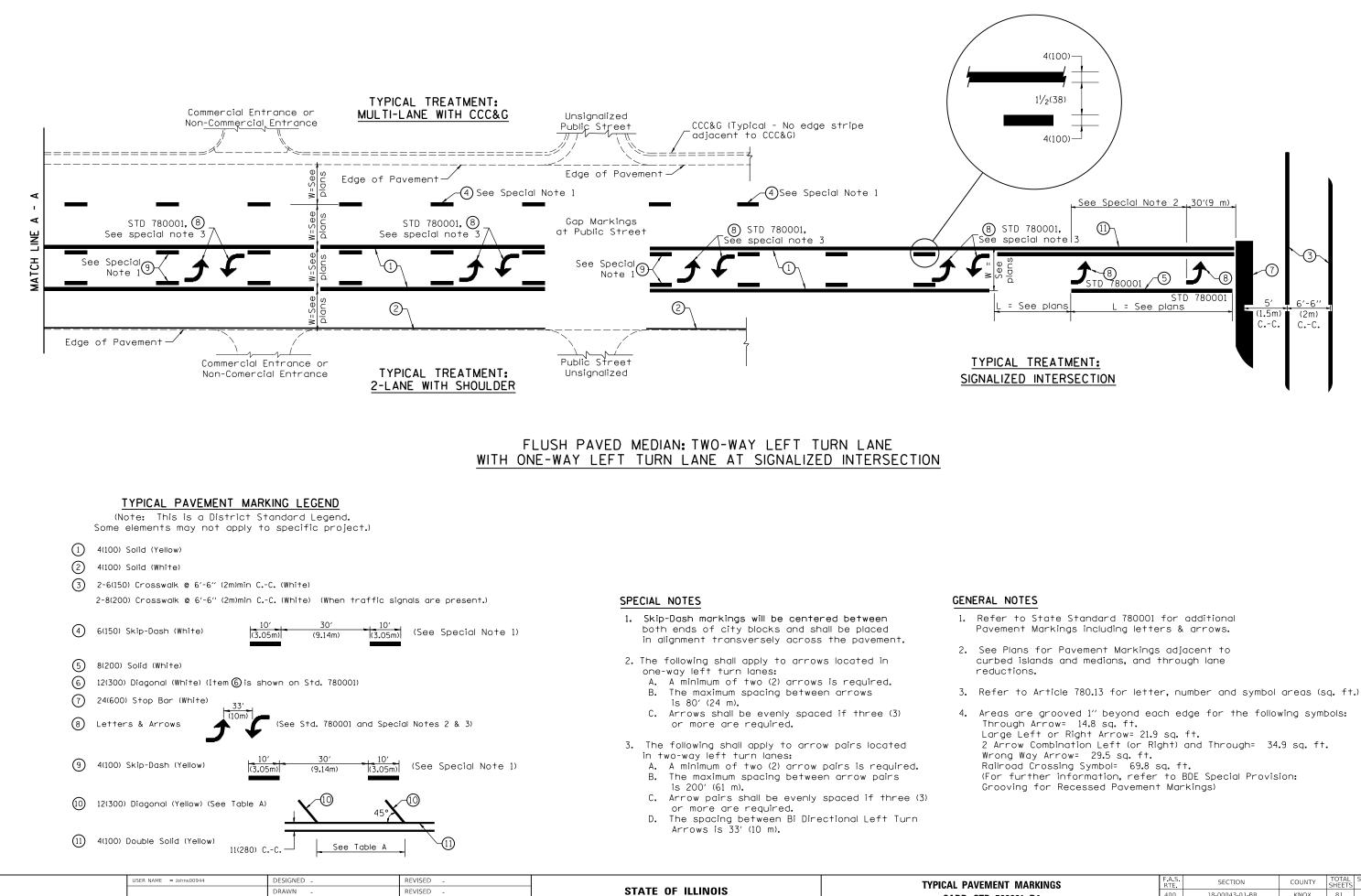
LAYOUT DRAWN REVIEWED

PLOT DATE = 2/3/2022

DRAWN -	REVISED -	STATE OF ILLINOIS	G		EROSION		
CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			CADD S	TD. 6301	01–D4
DATE - 01/24/2022	REVISED -		SCALE:	SHEET 2	OF 2	SHEETS	STA.

TO STA.

LILLINOIS FED AID PROJECT



DEPARTMENT OF TRANSPORTATION

HANSON

LAYOUT DRAWN REVIEWED

OT SCALE = 10.0000 ' / in.

LOT DATE = 2/3/2022

HECKED

01/24/2022

DATE

REVISED

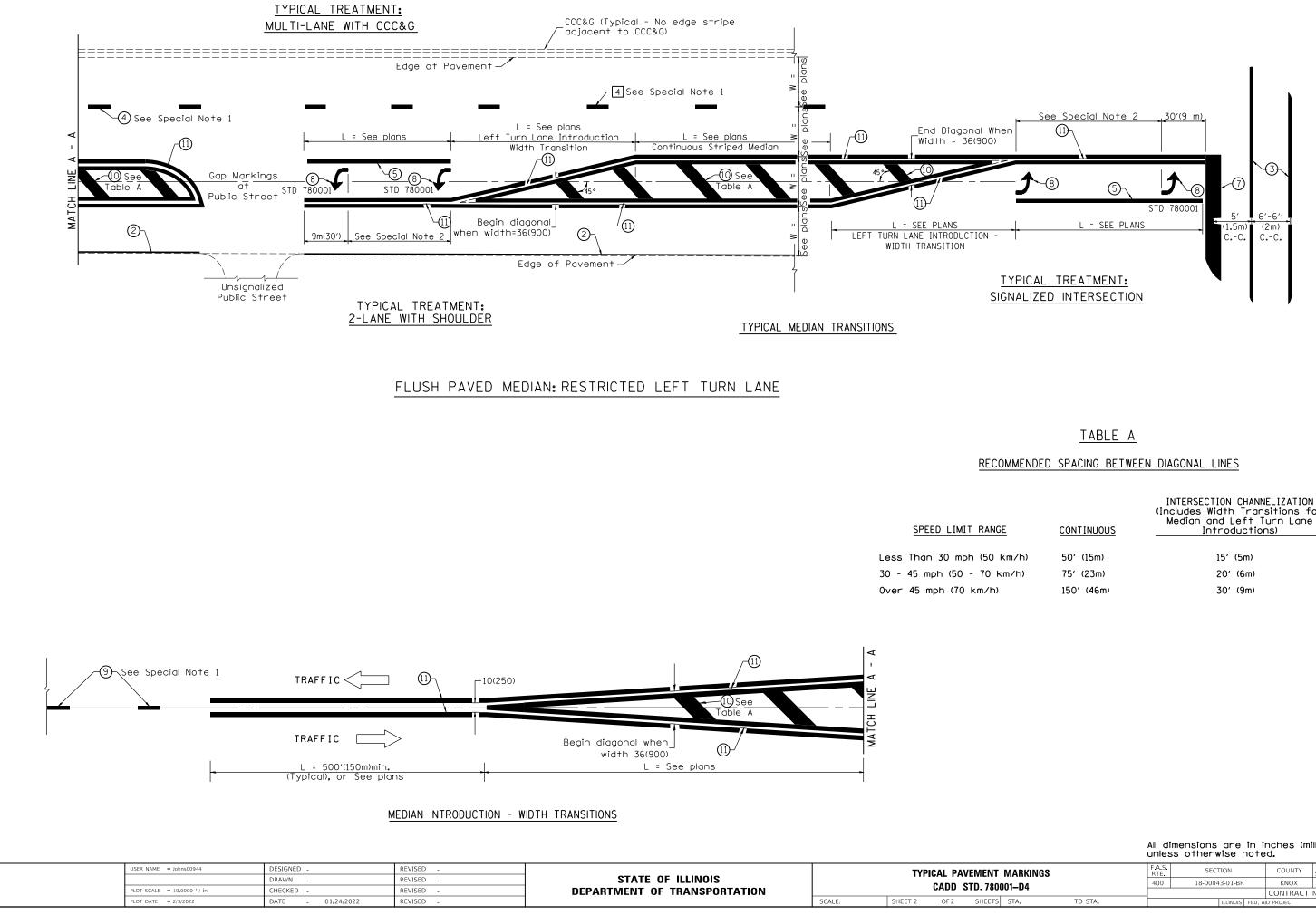
REVISED

CADD STD. 78 SHEET 1

SCALE:

OF 2 SHEET

IT MARKINGS		F.A.S. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.	
30001–D4		400	18-0004	18-00043-01-BR			81	80	
_	JUI-D4	с			CONTRACT	NO. 898	319		
TS	STA.	TO STA.			ILLINOIS	FED, A	ID PROJECT		



Hanson Professional Services Inc.

LAYOUT DRAWN REVIEWED

NGE	CONTINUOUS	(Includes Width Transitions for Median and Left Turn Lane Introductions)
) km/h)	50' (15m)	15′ (5m)
km/h)	75′ (23m)	20' (6m)
h)	150' (46m)	30' (9m)

All dimensions are in inches (millimeters) unless otherwise noted.

T MARKINGS	F.A.S. RTE	SECTION			COUNTY	COUNTY TOTAL SHEETS	
0001–D4		18-0004	3-01-BR		KNOX	81	81
0001-04	CONTRACT NO. 8981				319		
S STA. TO STA.			ILLINOIS	FED. A	ID PROJECT		