STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

D-92-060-23

PROPOSED FOR INDEX OF SHEETS, SEE SHEET NO. 2 **TOWNSHIP: ERIE**

HIGHWAY PLANS

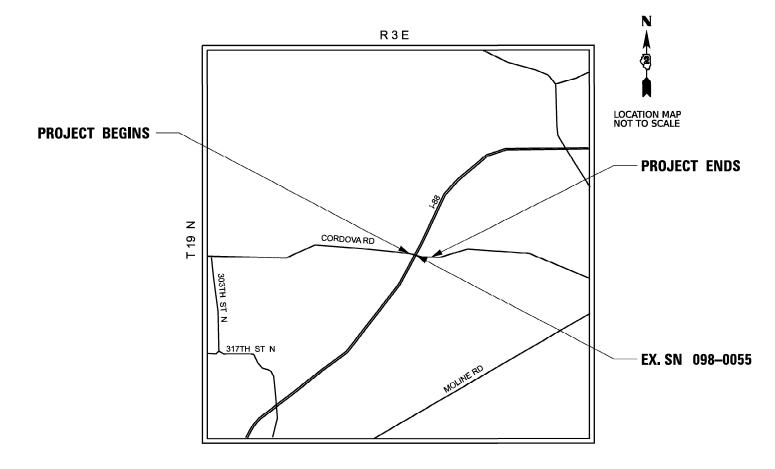
CLASSIFICATION: MAJOR COLLECTOR ADT (2016): 325

SECTION: 3

POSTED SPEED: 55 MPH

FAI ROUTE 88 (I-88) UNDER CORDOVA ROAD SECTION (195-1HB-1) BDR BRIDGE OVERLAY AND JOINT REPLACEMENT WHITESIDE COUNTY

C-92-061-23



GROSS LENGTH = 465,27 FT, = 0,088 MILE NET LENGTH = 465.27 FT. = 0.088 MILE

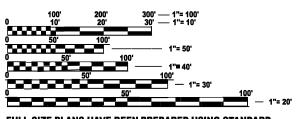
CONTRACT NO. 64S28

SUBMITTED March 25 20 25

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

LOCATION OF SECTION INDICATED THUS: -

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.

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 \circ

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

PROJECT MANAGER: DERRICK LOPEZ

GENERAL NOTES

- 1. THE CONTRACTOR SHALL NOTIFY TRAFFIC OPERATIONS A MINIMUM OF 5 WORKING DAYS PRIOR TO PLACING PERMANENT PAVEMENT
- 2. QUALITY MANAGEMENT PROGRAM TO BE USED ROW WILL HAVE QC/QA (QUALITY CONTROL/QUALITY ASSURANCE), QCP (HMA QUALITY CONTROL FOR PERFORMANCE), OR PFP (HMA PAY FOR PERFORMANCE USING PERCENT WITHIN LIMITS JOBSITE SAMPLING). WHICH ONE TO USE WILL BE DETERMINED BY MATERIALS. THEY WILL NEED QUANTITIES FOR EACH TYPE OF MIX USED (I.E. SURFACE, BINDER, ETC.). SEE BDE MANUAL CH. 53-4.07 OR CONTACT THE DISTRICT MIXTURES CONTROL ENGINEER FOR MORE INFORMATION.
- 3. PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:
 - 1. ALL WORDS, SUCH AS ONLY, SHALL BE 8 FEET HIGH.
 - ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.
 - THE DISTANCE BETWEEN YELLOW NO-PASSING LINES SHALL BE 8 INCHES, NOT 7 INCHES, AS SHOWN IN THE DETAIL OF TYPICAL LANE AND EDGE LINES.
 - CENTERLINE SKIP DASH PAVEMENT MARKING ON MULTI-LANE DIVIDED, MULTI-LANE UNDIVIDED, AND ONE-WAY ROADWAY SHALL BE ACCORDING TO DISTRICT STANDARD 41.1.
- 4. IDOT IS NOT A MEMBER OF JULIE. IF YOU ARE NEAR ANY OVERHEAD LIGHTING, INTERSECTION LIGHTING OR TRAFFIC SIGNALS, CONTACT THE IDOT TRAFFIC OFFICE AT 815/284-5469 AT LEAST 48 HOURS PRIOR TO WORK
- 5. THE SUPPORTING DATA SHOWN IN THE PLANS WERE DEVELOPED THROUGH AERIAL PHOTOGRAPHY AND IS NOT THE RESULT OF A GROUND SURVEY. THEREFORE, THE ALIGNMENTS AND SUPPORTING DATA SHOWN IN THE PLANS ARE FOR REFERENCE PURPOSES ONLY. THE RELATIVE ACCURACY OF THE INFORMATION IS UNKNOWN AND CANNOT BE GUARANTEED. THE CONTRACTOR MAY BE REQUIRED TO ADJUST LAYOUT TO MATCH ACTUAL FIELD CONDITIONS AND THE INTENT OF THE PLANS.

INDEX OF SHEETS

COVER SHEET GENERAL NOTES, INDEX OF SHEETS, STANDARD DRAWINGS

SUMMARY OF QUANTITIES 3 - 4

PROPOSED PAVEMENT MARKINGS PLAN 5

DETOUR ROUTE 6 - 7

STRUCTURAL PLANS 8 - 17

D2 HIGHWAY STANDARDS 18 - 22

IDOT STANDARD DRAWINGS

STANDARD NUMBERS	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-13	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701901-10	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS

DISTRICT 2 STANDARD DRAWINGS

STANDARD NUMBERS	DESCRIPTIO
------------------	------------

40.1 TRAFFIC CONTROL FOR ROAD CLOSURE TYPICAL PAVEMENT MARKINGS 41.1

HOT MIX ASPHALT MIXTURE REC	QUIREMENTS
LOCATION AND MIXTURE USES(S):	SURFACE
PG:	SBS PG 70-28
DESIGN AIR VOIDS	4.0 @ N50
MIXTURE COMPOSITION	SMA 9.5
FRICTION AGGREGATE	С
MIX WEIGHT	112 LB/SY/IN
QUALITY MANAGEMENT PROGRAM	QC/QA
SUBLOT SIZE	N/A
MATERIAL TRANSFER DEVICE	N/A

COUNTY

22 2

				CONSTRUCTION CODE
				100% STATE
				BRIDGE REHABILITATION
CODE			TOTAL	0059
NO.	ITEM	UNIT	QUANTITY	RURAL
110.			QOANTIII	SN. 098-0055
				311. 090-0033
40605022	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "D", N50	TON	217	217
	TOETHER BETTER WINTER CONTINUE CONTINUE, CONTI	100	217	2.11
50102400	CONCRETE REMOVAL	CU YD	8.2	8.2
50157300	PROTECTIVE SHIELD	SQ YD	464	464
50300255	CONCRETE SUPERSTRUCTURE	CU YD	8.5	8.5
50300300	PROTECTIVE COAT	SQYD	28	28
	THOTEONIVE GOVII	50.15	20	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1,500	1,500
52000110	PREFORMED JOINT STRIP SEAL	FOOT	74	74
58100210	FULL LANE SEALANT WATERPROOFING SYSTEM	SQ YD	1764	1764
58700300	CONCRETE SEALER	SQ FT	146	146
59000200	EPOXY CRACK INJECTION	FOOT	127	127
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	1	1
67100100	MOBILIZATION	LSUM	1	1
		L 30W	'	'
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	90	90

MODEL: Default

 USER NAME
 = john.mccabe
 DESIGNED
 AMB
 REVISED

 DRÂWN
 AMB
 REVISED

 CHECKED
 PK
 REVISED

 PLOT ĐATE
 = 3/24/2025
 DATE
 3/19/2025
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-88 UNDER CORDOVA RD SUMMARY OF QUANTITIES

TO STA.

SCALE:

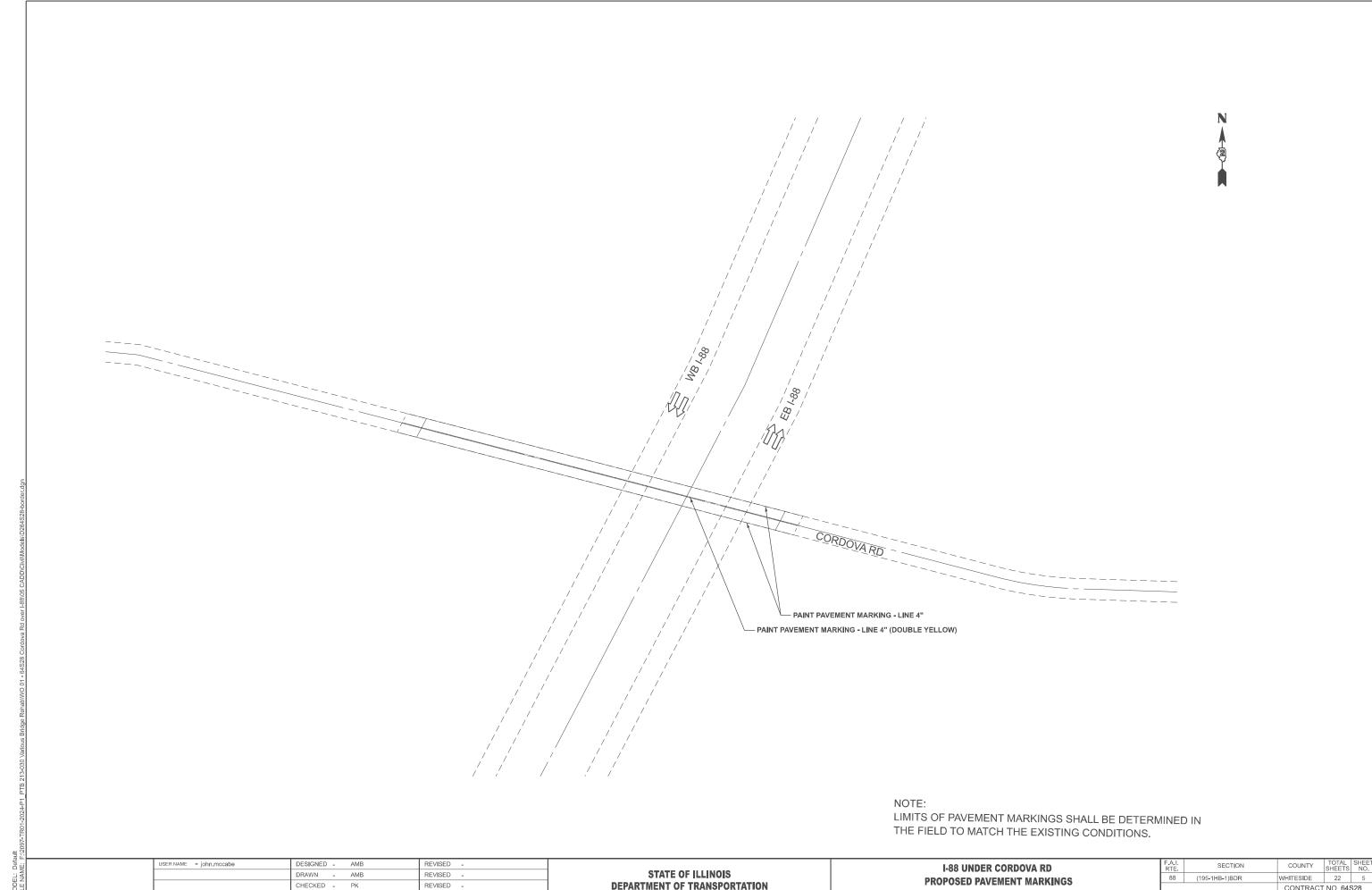
				100% STATE
				BRIDGE REHABILITATION
CODE			TOTAL	0059
NO.	ITEM	UNIT	QUANTITY	RURAL
				SN. 098-0055
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1908	1908
X5110308	SLOPE WALL CRACK SEALING	FOOT	17	17
X5110310	SLOPE WALL REPAIR	SQ YD	1	1
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
Z0004556	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	1761	1761
20004556	HOT-WIX ASPHALT SURFACE REMOVAL (DECK)	SQ 10	1761	1761
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	284	284
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	6	6
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	32	32
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	397	397
			1	

USER NAME = john.mccabe	DESIGNED	_	AMB	REVISED -	
	DRAWN	-	AMB	REVISED -	
	CHECKED	-	PK	REVISED -	
PLOT DATE = 3/24/2025	DATE	-	3/19/2025	REVISED -	

SCALE:

		I-88 UND	ER CORD	OVA RD			F.A.I. RTE.	SECTION
SUMMARY OF QUANTITIES							88	(195-1HB-1)BDR
		OUMINAN	I OI GOA	141111111111111111111111111111111111111	•			
1	SHEET 1	OF	SHEETS	STA.	TO STA.	i i		LILINOIS

CONSTRUCTION CODE



PLOT DATE = 3/24/2025

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED PAVEMENT MARKINGS SCALE: 1" = 50' SHEET OF SHEETS STA.

CONTRACT NO. 64S28

ILLINOIS FED. AID PROJECT

GENERAL NOTES

- 1. DETOUR SIGNAGE SHALL BE CONSIDERED INCLUDED IN THE COST FOR TEMPORARY TRAFFIC CONTROL AND PROTECTION (SPECIAL) EXCEPT AS OTHERWISE NOTED.
- 2. SEE DETAILS FOR TYPICAL SIGN SPACING.
- 3. THE CONTRACTOR SHALL NOT OBSTRUCT EXISTING SIGNAGE WITH THE PLACEMENT OF THE DETOUR SIGNAGE.
- 4. DETOUR ROUTES SHALL BE IN EFFECT DURING THE DURATION OF PROJECT.

LEGEND 1 M4-8P 7 M6-3 **DETOUR** 21"X15" 24"X12" SPECIAL 30"X18" END M4-8A VARIABLE 6" BLACK DETOUR CORDOVA 30"X24" LETTERS ON ROAD ORANGE REFLECTIVE BACKGROUND **DETOUR** M3-2P **EAST** W20-2 **AHEAD** 24"x12" 48"X48"

M3-4P WEST 24"X12"

(10) W20-3

CLOSED **AHEAD** 48"X48"

M6-1 **(5)** 21"X15"

W20-3(O)-48 48"X48"

ROAD CLOSED 1000 FT

ROAD

M6-1 21"X15"



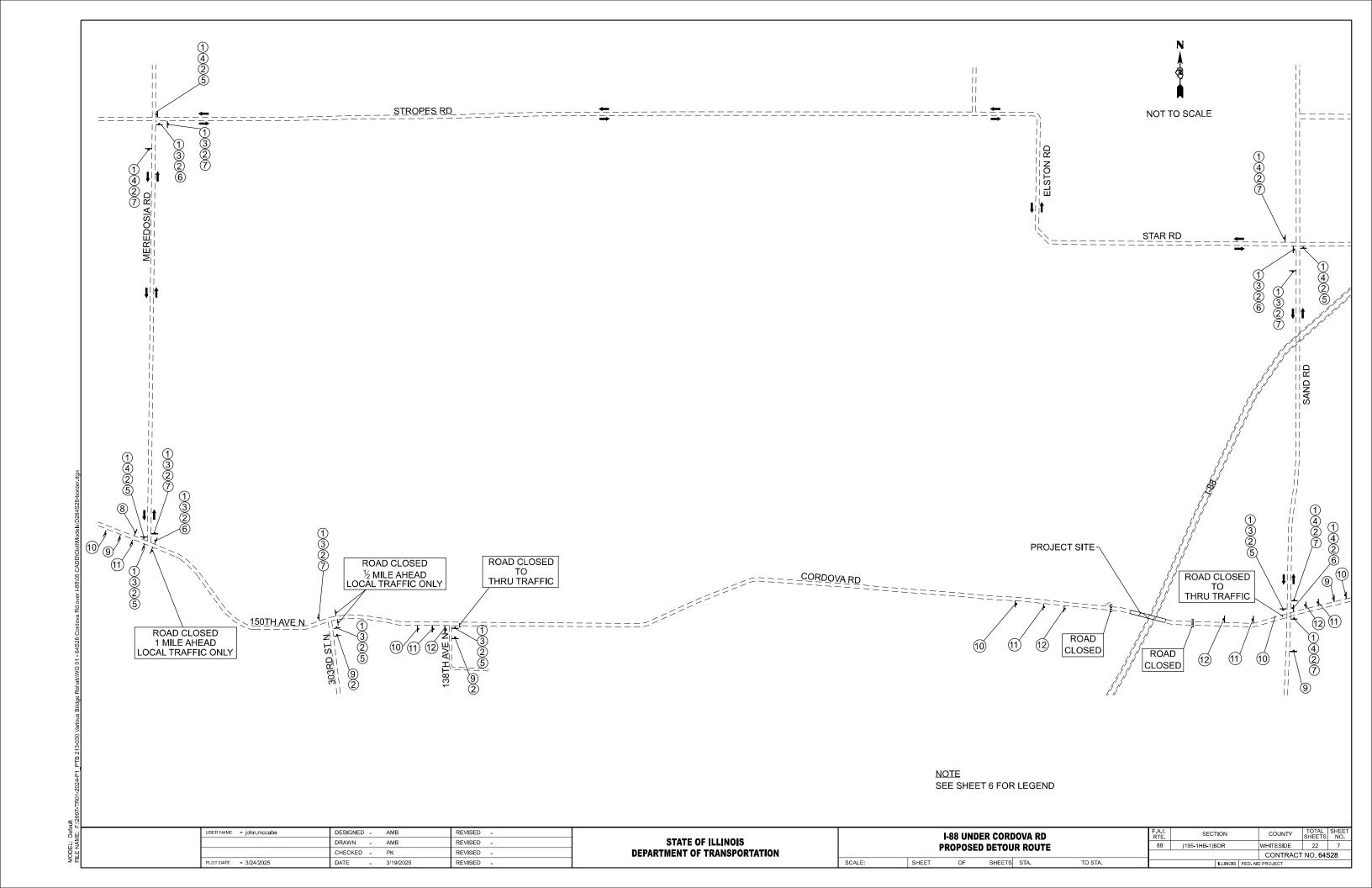
W21-I100(0)-48



USER NAME = john.mccabe	DESIGNED	-	AMB	REVISED -	
	DRAWN	-	AMB	REVISED -	
	CHECKED	-	PK	REVISED -	
PLOT DATE = 3/24/2025	DATE	-	3/19/2025	REVISED -	

SCALE: SHEET

OF SHEETS STA. TO STA.



Benchmark: Chiseled square on Top of Railing Curb SW Corner of Bridge at Sta. 47+18. Elev. 585.17 **DESIGN SPECIFICATIONS** 2024 AASHTO LRFD Bridge Design The structure is a four-span continous, composite plate girder bridge with a 7½-inch reinforced concrete deck with a 1½-inch bituminous overlay. Specifications, 10th Edition At the vaulted abutments are 24'-91/8" approach spans. Expansion joints are neoprene expansion joints. The original structure was built in 1975. Abutments and approach bents are supported by concrete piles. Piers are supported by creosoted timber piles. **DESIGN STRESSES** Traffic will be detoured during construction. FIELD UNITS fc = 4,000 psi (Superstructure)No salvage. $f^{\dagger}c = 3,500 \text{ psi (Substructure)}$ fy = 60,000 psi (Reinforcement) 465'-3¹/₄" SCOPE OF WORK 24'-9¹/₈'' 101'-9" 104'-8" 104'-8'' 104'-8" 24'-9¹/₈'' 1. Remove and replace existing Back of W. Vaulted Slab Span 1 Span 2 Span 3 Vaulted Slab expansion joints at East and West Approach 8°18'59.58" Abutments Back of E. Skew 2. Remove existing bituminous overlay. Approach 3. Repair areas of the bridge deck and Bent 4. Repair Vaulted slab. 5. Install new bituminous overlay. € Cordova Rd. 6. Repair abutments. 7. Repair piers. 8. Repair East slope wall. © South Branch Drainage Ditch ├--- **©** Pier 1 € Brg. € Brg. W. Abut. E. Abut. € EB I-88 -€ WB I-88 PLAN Range 3E, 4th P.M. Structure Location Fargo Rd. LOCATION SKETCH 55'-0" 55'-0" Limits of Limits of Protective Shield Protective Shield Exist. Concrete Slope wall - Exist. Stone Riprap € EB I-88 ---€ WB I-88 —— © South Branch Drainage Ditch GENERAL PLAN AND ELEVATION

GENERAL PLAN AND ELEVATION

CORDOVA ROAD OVER FAI-88 (I-88)

SECTION (195-1HB-1)BDR

WHITESIDE COUNTY

STATION 1037+72

STRUCTURE NO. 098-0055

ELEVATION

1	USER NAME =	DESIGNED -	RO	REVISED -
\bigcirc		CHECKED -	EG	REVISED -
GARZA KARHOFF ENGINEERING, LLC	PLOT SCALE =	DRAWN -	RO	REVISED -
	PLOT DATE =	CHECKED -	EG	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLA STRUCTURE				
QUEET 1	ΩE	10	CHEETC	

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.	
88	SEC (195-1HB-1)BD	R	WHITESIDE	22	8
		CONTRA	CT NO. 6	34S28	
	ILLINOIS	FED. A	D PROJECT		

- 1. Reinforcement bars designated (E) shall be epoxy coated.
- 2. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose detrimental foreign material shall be removed from the surfaces in contact with concrete (SSPC - SP3 standards). Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be paid for according to Article 109.04 of the Standard Specifications.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding $\frac{1}{4}$ in. deep shall be identified and reported to the Bureau of Bridges & Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

- 3. 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
- 4. Concrete Sealer shall be applied to the areas of Abutment Cap concrete repair. All surfaces to be sealed shall be cleaned thoroughly prior to sealer application. Cost included with Concrete Sealer.
- 5. Protective Coat shall be applied to new concrete on the top and inside vertical surfaces of the parapet repairs per Section 503.19 of the Standard
- 6. Protective coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.
- 7. The repairs in these plans were identified from a visual inspection and a chain drag deck delamination survey in February 2025. The Contractor shall verify the locations and quantities in the field at the direction of the Engineer.
- 8. No field welding is permitted except as specified in the contract documents.
- 9. Existing Reinforcement bars extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any Reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system at the contractors expense.
- 10. Area of deck repairs shown are estimates.
- 11. The Engineer shall show actual locations and size of deck repairs on As-Built Plans.
- 12. The deck surface shall have its final finish tined according to Article 420.09(e)(1) in the standard specifications. Cost to be included with Concrete Superstructure.
- 13. Joint openings shall be adjusted according to Article 420.09(e)(1) of the Std. Specs. when the deck is poured at an ambient temperature other than 50 deg F.

INDEX OF SHEETS

- 1. General Plan and Elevation
- 2. General Data
- 3 Deck Sections
- 4. Deck Repair Plans and Details
- 5. Expansion Joint Repairs
- 6. Expansion Joint Repair Details
- 7. Preformed Joint Seal 8. Abutment Repair Details
- 9. Pier Repair Details
- 10. Slope Wall Repair Details

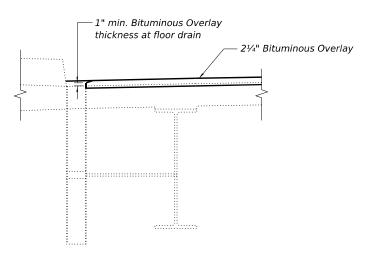
1½" Surface Course 7'-6" Exist. Vaulted 3/4" Binder Course Slab Surface

HMA TAPER AT VAULTED SLAB ENDS

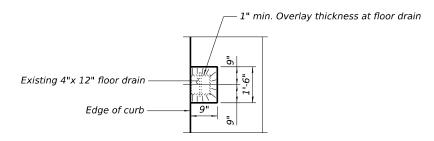
1" per 10'-0" HMA Taper per IDOT Std. BD 32 West End shown, East End similar

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Polymerized Hot-Mix Asphalt Surface Course, Stone Matrix Asphalt, 9.5, Mix "C", N50	Ton	217	-	217
Concrete Removal	Cu. Yd.	8.2	-	8.2
Protective Shield	Sq.Yd.	464	-	464
Concrete Superstructure	Cu. Yd.	8.5	-	8.5
Protective Coat	Sq.Yd.	28	-	28
Reinforcement, Bars, Epoxy Coated	Pound	1,500	-	1,500
Preformed Joint Strip Seal	Foot	74	-	74
Full Lane Sealant Waterproofing System	Sq. Yd.	1,764	-	1,764
Concrete Sealer	Sq. Ft.	-	146	146
Epoxy Crack Injection	Foot	-	127	127
Slope Wall Crack Sealing	Foot	-	17	17
Slope Wall Repair	Sq.Yd.	-	1	1
Hot-Mix Asphalt Surface Removal (Deck)	Sq.Yd.	1,761	-	1,761
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	-	284	284
Structural Repair of Concrete (Depth Greater than 5 Inches)	Sq. Ft.	-	6	6
Deck Slab Repair (Full Depth, Type II)	Sq.Yd.	32	-	32
Deck Slab Repair (Partial)	Sq.Yd.	397	-	397



OVERLAY AT DRAIN DETAIL



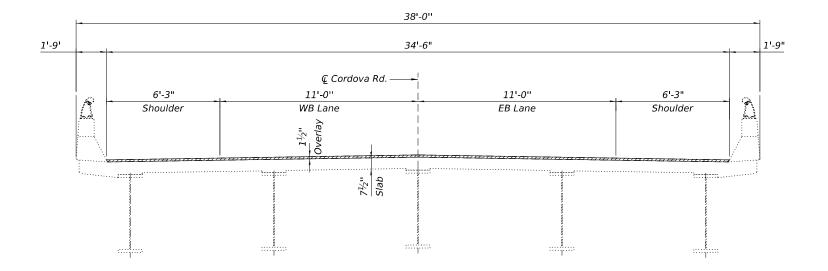
OVERLAY TREATMENT AT DRAINS

(29 drains N. Shoulder, 34 drains S.Shoulder) Cost included with Bridge Deck Overlay.



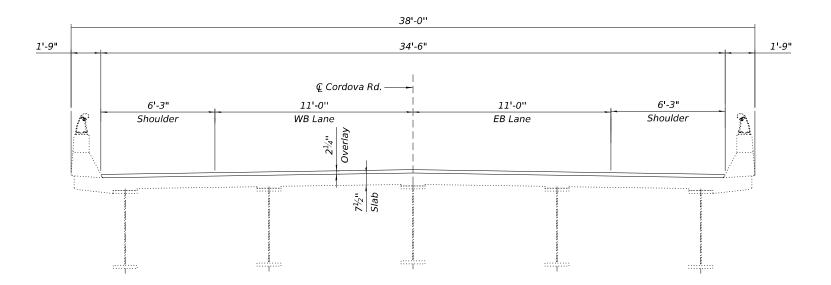
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GENERAL DATA	F.A.I. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO. 098-0055		(195-1HB	-1)BDR		WHITESIDE	22	9
3111001011E 110: 030-0033					CONTRA	CT NO. 6	34S28
SHEET 2 OF 10 SHEETS			ILLINOIS	FED. All	D PROJECT		



EXISTING CROSS SECTION

(Looking East)



PROPOSED CROSS SECTION

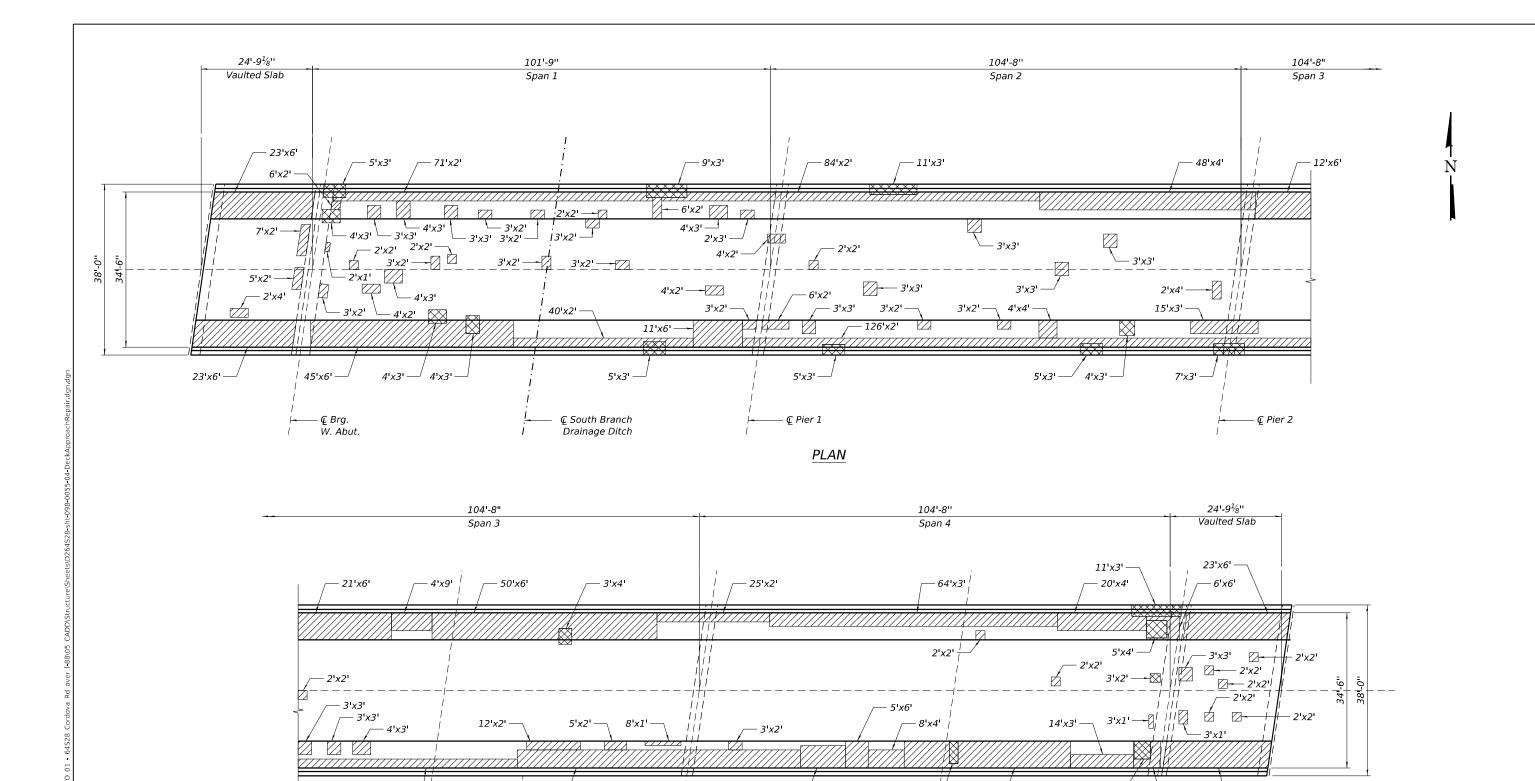
(Looking East)

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PLOT DATE =	CHECKED		r.c	REVISED	

DEC	SECTIO	NS	F.A.I. RTE	SEC.	TION		
STRUCTUR	E NO O	98-0055	88	SEC (195-1	IHB-1)BD	R	Ī
311100101	L NO. O	30-0033					Γ
SHEET 3	OF 10	SHEETS			ILLINOIS	FED. A	ĎΙ



LEGEND

Partial Depth Deck Patching

Full Depth Deck Patching

<u>PLAN</u>

2'x5' -

37'x6' —

€ WB I-88

10'x5' —

– **€** Pier 3

BILL OF MATERIAL

Ton	217
	J
	i
Sq. Yd.	1,764
Sq. Yd.	32
Sq. Yd.	397
	Sq. Yd.

GARZA KARHOFF ENGINEERING, LLC

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F F L C	PLOT SCALE =	DRAWN -	RO	REVISED -
	PLOT DATE =	CHECKED -	FG	REVISED -

49'x2' –

63'x4' —

€ EB I-88

DECK REPAIR PLANS AND DETAILS	F.A.I. RTE	SECTION
STRUCTURE NO. 098-0055	88	(195-1HB-1)BDR
311(00101(E 1(0: 030 0000		
SHEET 4 OF 10 SHEETS		ILLINOIS

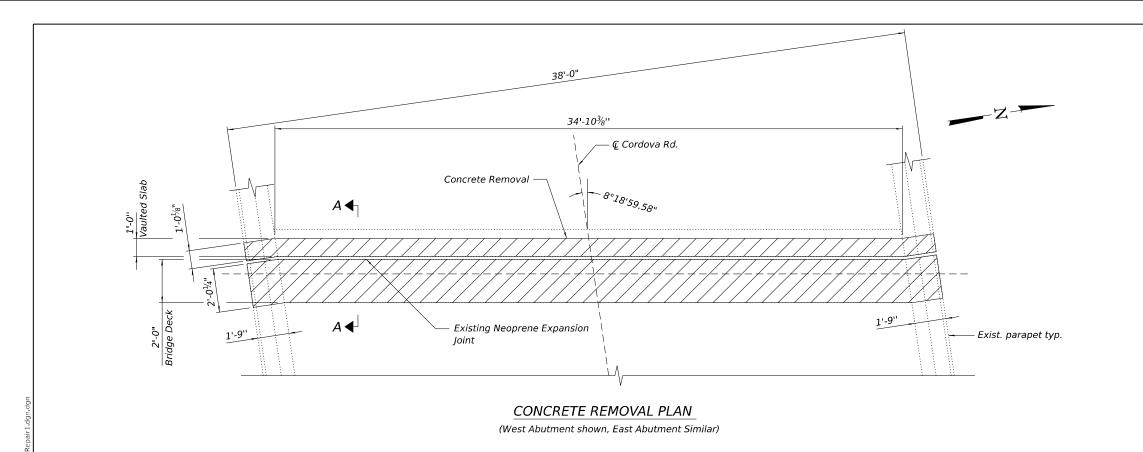
— *23'x6*'

— 6'x6'

- **©** Brg. E. Abut.

> F.A.I. RTE.
> SECTION
> COUNTY SHEETS NO.
> TOTAL SHEETS NO.
>
>
> 88
> (195-1HB-1)BDR
> WHITESIDE
> 22
> 11
>
>
> CONTRACT NO. 64S28
>
>
> ILLINOIS FED. AID PROJECT

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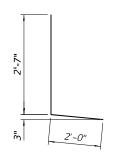
34'-10³/₈''

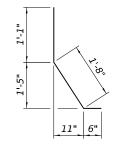
© Cordova Rd.

·8°18'59.58"

BILL OF MATERIAL FOR TWO JOINTS

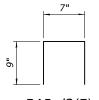
Bar	No.	Size	Length	Shape
				Strape
a(E)	4	#5	38'-2"	
a1(E)	16	#6	38'-2"	
a2(E)	16	#6	4'-0"	
d(E)	12	#4	4'-7"	<u></u>
d1(E)	20	#5	3'-3"	$\overline{}$
d2(E)	4	#4	2'-1"	П
d3(E)	8	#4	5'-9"	L
x(E)	78	#5	2'-3"	
	Item		Unit	Total
Concrete	e Removal		Cu. Yd.	8.2
Concrete	Superstru	ıcture	Cu. Yd.	8.5
Protective Coat			Sq. Yd	28
Reinforc	Reinforcement Bars,			1,500
Ероху С	oated			

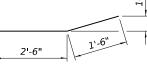




BAR d(E)

BAR d1(E)

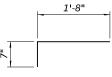




BAR d2(E)

BAR a2(E)





BAR d3(E)

BAR x(E)

NOTES:

- 1. I.F. denotes Inside Face. O.F. denotes Outside Face.
- x(E) bar spacing measured along skew.
 See Sheet 6 of 10 for Section A-A, Section B-B and sections through Parapets.

CONCRETE REPLACEMENT PLAN

39-#5 x(E) bars at 12' cts. top 38'-0"

(West Abutment shown, East Abutment Similar)

4	Г
\sim	ŀ
GARZA KARHOFF ENGINEERING, LLC	l
JK ENGINEERING, EEC	

	USER NAME =	DESIGNED -	RO	REVISED -
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FF	PLOT SCALE =	DRAWN -	RO	REVISED -
	PLOT DATE =	CHECKED -	EG	REVISED -

 $B \blacktriangleleft_{1}$

4-#6 a1(E) bars at

8" cts. top & bot.

3-#6 a2(E) bars

Top, Each End

В◀

1'-9"

2-#5 a(E) bars at 6" cts. top

> Bend bars in field, typ.

> > STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

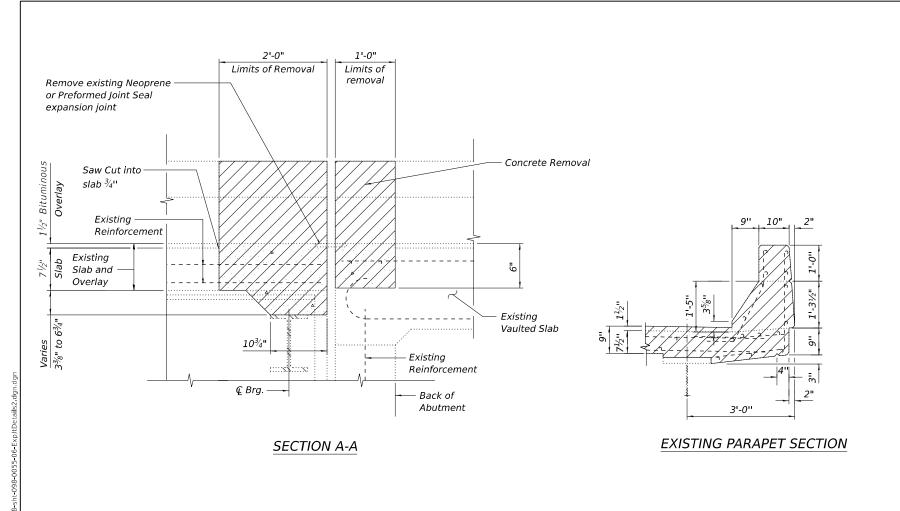
1-#6 a2(E) bars – Top, Each End

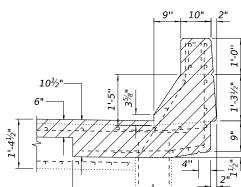
EXPANSION STRUCTUR			
SHEET 5	OF	10	SHEETS

2-#5 d1(E) bars I.F., typ

1'-9"

SECTION (195-1HB-1)BDR WHITESIDE 22 12 CONTRACT NO. 64S28





EXISTING VAULTED SLAB
PARAPET SECTION

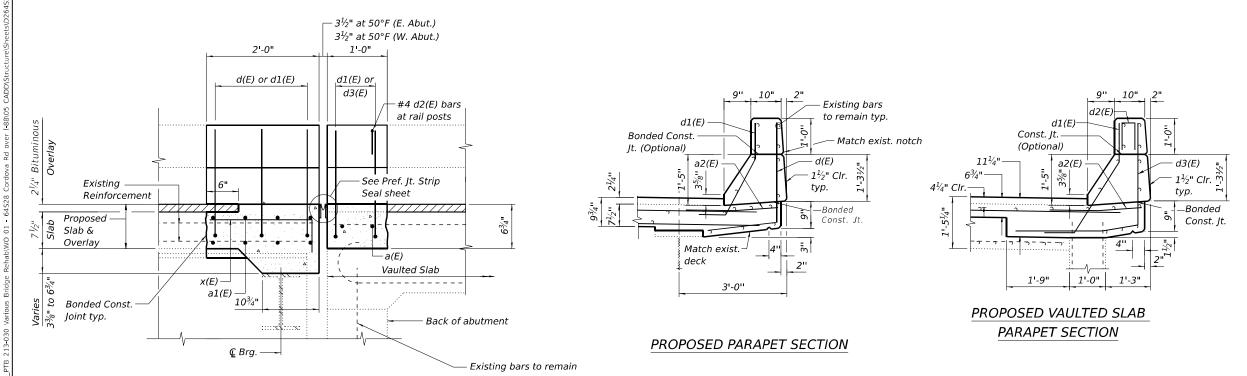
1'-9"

1'-0"

1'-3"

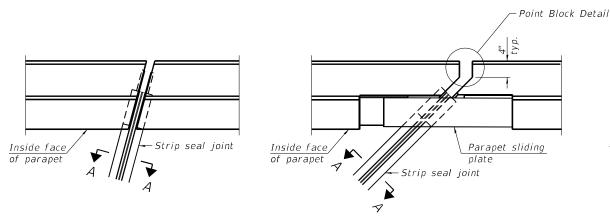
Notes:

- Existing reinforcement bars extending into the concrete removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be repaired or replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
- 2. Existing reinforcement bars in the concrete removal area parallel to the expansion joints shall be removed.
- 3. Removal and disposal of the existing expansion joints will not be paid for separately, but shall be included with the cost of Concrete Removal.
- 4. If existing name plate falls within the limits of Concrete Removal, it shall be removed and reinstalled in its original location in accordance with IDOT Std. 515001. Cost included with Concrete Superstructure.
- 5. If existing guardrail and/or end shoe fall within the limits of Concret Removal, they shall be removed and reinstalled in their original location in accordance with District 1 Std. BM-21. Cost included with Concrete Superstructure.
- 6. The Contractor shall exercise extreme care with the existing conduits in sections of the parapet to be removed and to protect and support the conduit. The Contractor will be required to repair any damage done to the conduit to the satisfaction of the Engineer, at no additional cost to the Department. No splicing will be allowed to any cable damage resulting from this work, instead the Contractor will be required to repair the entire span of any damaged cable at no additional cost to the Department.
- 7. See Sheet 5 of 10 for Bar Bending Details and Bill of Material.



SECTION B-B

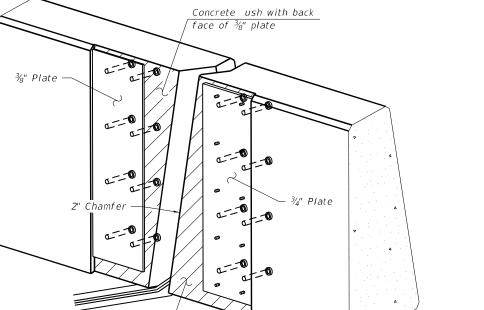
efau	1	USER NAME =	DESIGNED -	RO	REVISED -		EXPANSION JOINT REPAIR DETAILS	F.A.I. RTF	SECTION	COUNTY	TOTAL SHEE
AME.	GARZA KARHOFF ENGINEERING, LLC		CHECKED -	EG	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 098-0055	88	(195-1HB-1)BDR	WHITESIDE	22 13
ΞΝ	ENGINEERING, LLC	PLOT SCALE =	DRAWN -	RO	REVISED -	DEPARTMENT OF TRANSPORTATION	31R0C10RE NO. 098-0055			CONTRA	ACT NO. 64S28
용문		PLOT DATE =	CHECKED -	EG	REVISED -		SHEET 6 OF 10 SHEETS		ILLINOIS FED. AI	D PROJECT	



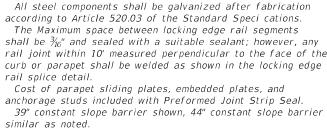
$FOR SKEWS \le 30^{\circ}$ FOR SKEWS > 30°

* ¾" Ø x 6" Studs 1'-0" (8 per side 39" parapet) (10 per side 44" parapet) ီ 🎵 ¾" Embedded plate . | full depth ¾" Embedded plate, Min. lap full depth 1/2" Parapet sliding plate 3/8" Ø Countersunk bolts 1'-0" (10 per side 39" parapet) (12 per side 44" parapet) Direction of tra c

SECTION B-B



TRIMETRIC VIEW



The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The con guration of the strip

are not permitted. The gland shall be sized for a maximum

The locking edge rails depicted are con gured for typical

applications and are conceptual only. The actual con guration

of the locking edge rails and matching strip seal may vary from

however, will not be allowed. Locking edge rails may exceed the

 $4\frac{1}{2}$ " maximum depth provided the anchorage system is revised

manufacturer to manufacturer provided they t the application

and meet the minimum anchorage shown. Flanged edge rails,

The manufacturer's recommended installation methods

according to the manufacturer's recommendation.

seal shall match the con guration of the locking edge rails. Open or "webbed" strip seal gland con gurations

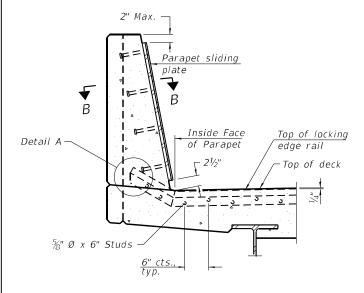
Notes:

rated movement of 4 inches.

shall be followed.

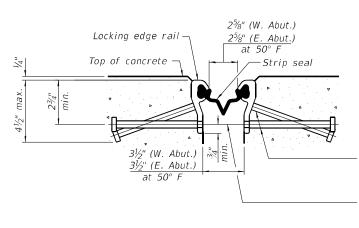
The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a di erent 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.

PLAN AT PARAPET

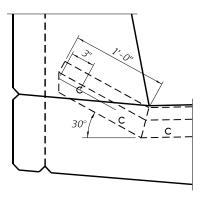


SECTION AT PARAPET

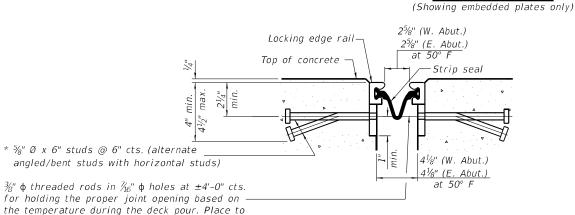
(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



SHOWING ROLLED RAIL JOINT



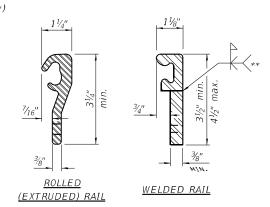
DETAIL A



Concrete ush with back

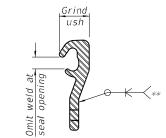
face of 3/4" plate

SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is veri ed by mock-up.



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	74

SECTION A-A

* Granular or solid ux lled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

miss studs. All rods shall be burned, or sawed

o ush with the plates after concrete is set.

EJ-SS 5-15-2023

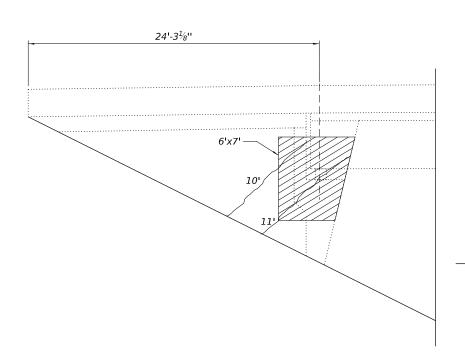
1	USER NAME =	DESIGNED - EG RO	REVISED -
\sim \sim		CHECKED - LM EG	REVISED -
GARZA KARHOFF ENGINEERING, LLC	PLOT SCALE =	DRAWN - EG RO	REVISED -
	PLOT DATE =	CHECKED - LM EG	REVISED -

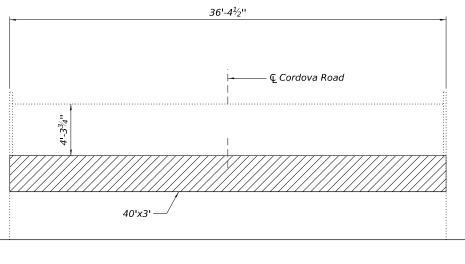
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PREFORMED JOINT STRIP SEAL						
STRUCT	URE	NO	. 098-0055			
CHEET 7	ΩE	10	CHEETE			

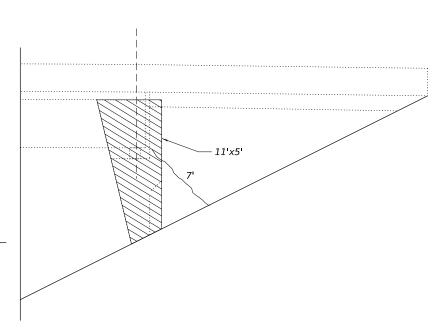
A.I. TE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
38	SEC (195-1HB-1)BD	WHITESIDE	22	14	
			CONTRA	CT NO. 6	34S28
	ILLINOIS	EED ΔI	D PROJECT		

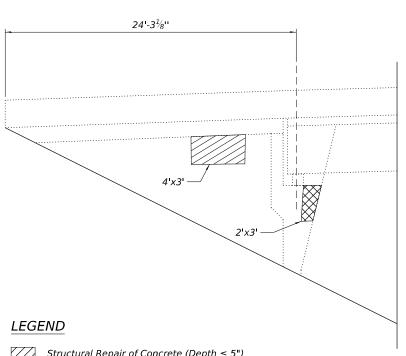
3/24/2025 11:36:04 AM

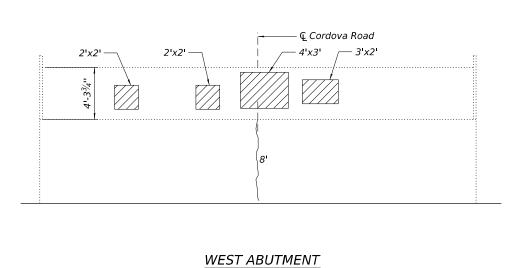




EAST ABUTMENT







3' | BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth equal to or less 5 in)	Sq. Ft.	255
Structural Repair of Concrete (Depth greater than 5 in)	Sq. Ft.	6
Concrete Sealer	Sq. Ft.	146
Epoxy Crack Injection	Foot	39

Structural Repair of Concrete (Depth \leq 5")

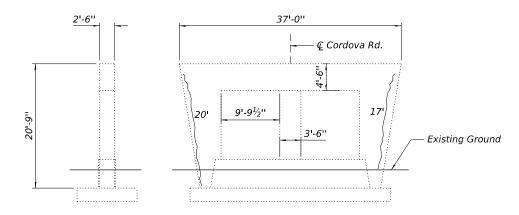
Structural Repair of Concrete (Depth > 5")

— Epoxy Crack Injection

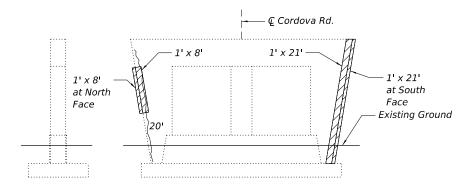
GARZA KARHOFF ENGINEERING, LLC

	USER NAME =	DESIGNED - RO	REVISED -
		CHECKED - EG	REVISED -
F	PLOT SCALE =	DRAWN - RO	REVISED -
	PLOT DATE =	CHECKED - EG	REVISED -

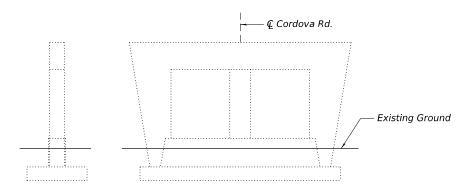
COUNTY TOTAL SHEETS NO.
WHITESIDE 22 15 SEC (195-1HB-1)BDR CONTRACT NO. 64S28 SHEET 8 OF 10 SHEETS



PIER 1 (West Face)



PIER 2 (West Face)

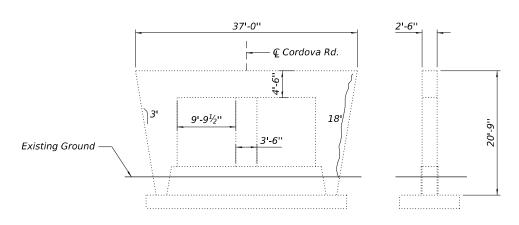


PIER 3 (West Face)

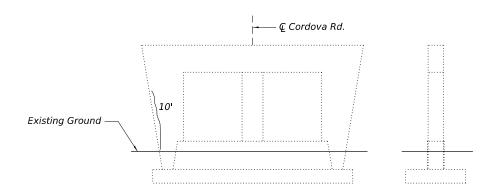
LEGEND

Structural Repair of Concrete (Depth ≤ 5 ")

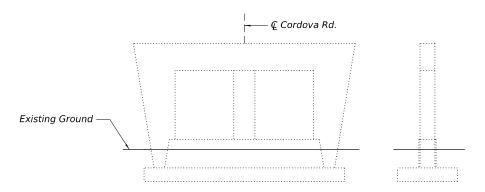
— Epoxy Crack Injection



PIER 1 (East Face)



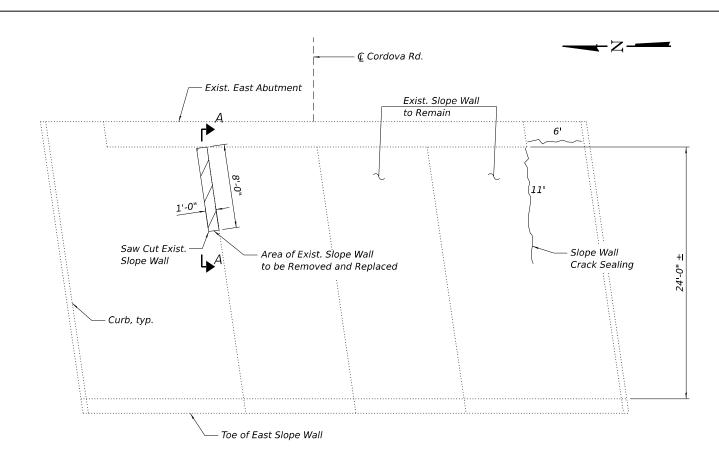
PIER 2 (East Face)



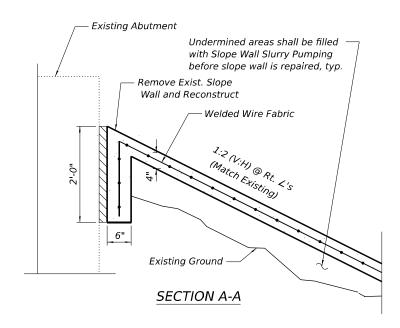
PIER 3 (East Face)

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth equal to or less 5 in)	Sq. Ft.	29
Epoxy Crack Injection	Foot	88



EAST SLOPE WALL REPAIR PLAN



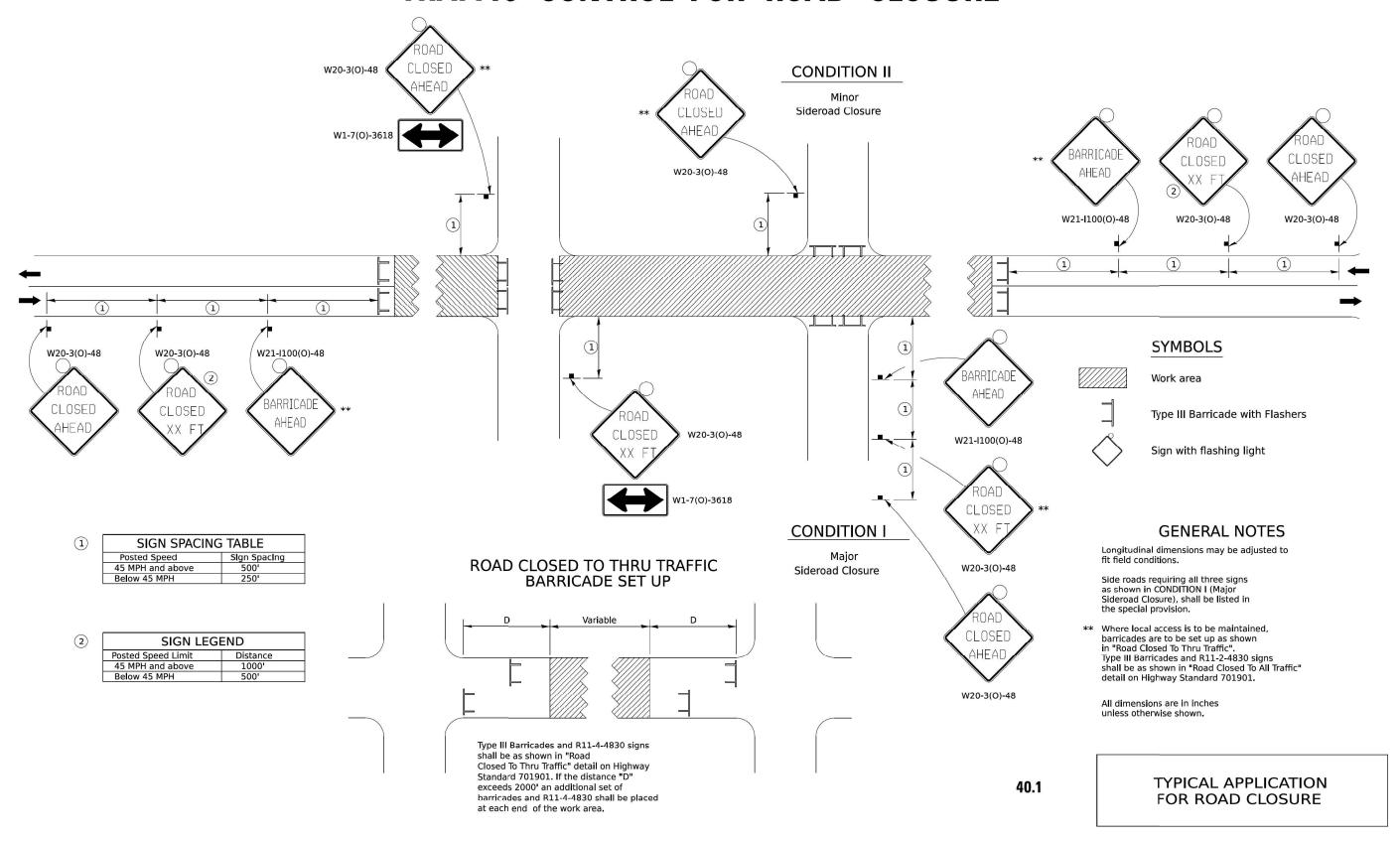
<u>NOTES</u>

1. Slope wall shall be reinforced with welded wire fabric, 6in. x 6in. - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Slope Wall Repair	Sq. Yd.	1
Slope Wall Crack Sealing	Foot	17

TRAFFIC CONTROL FOR ROAD CLOSURE

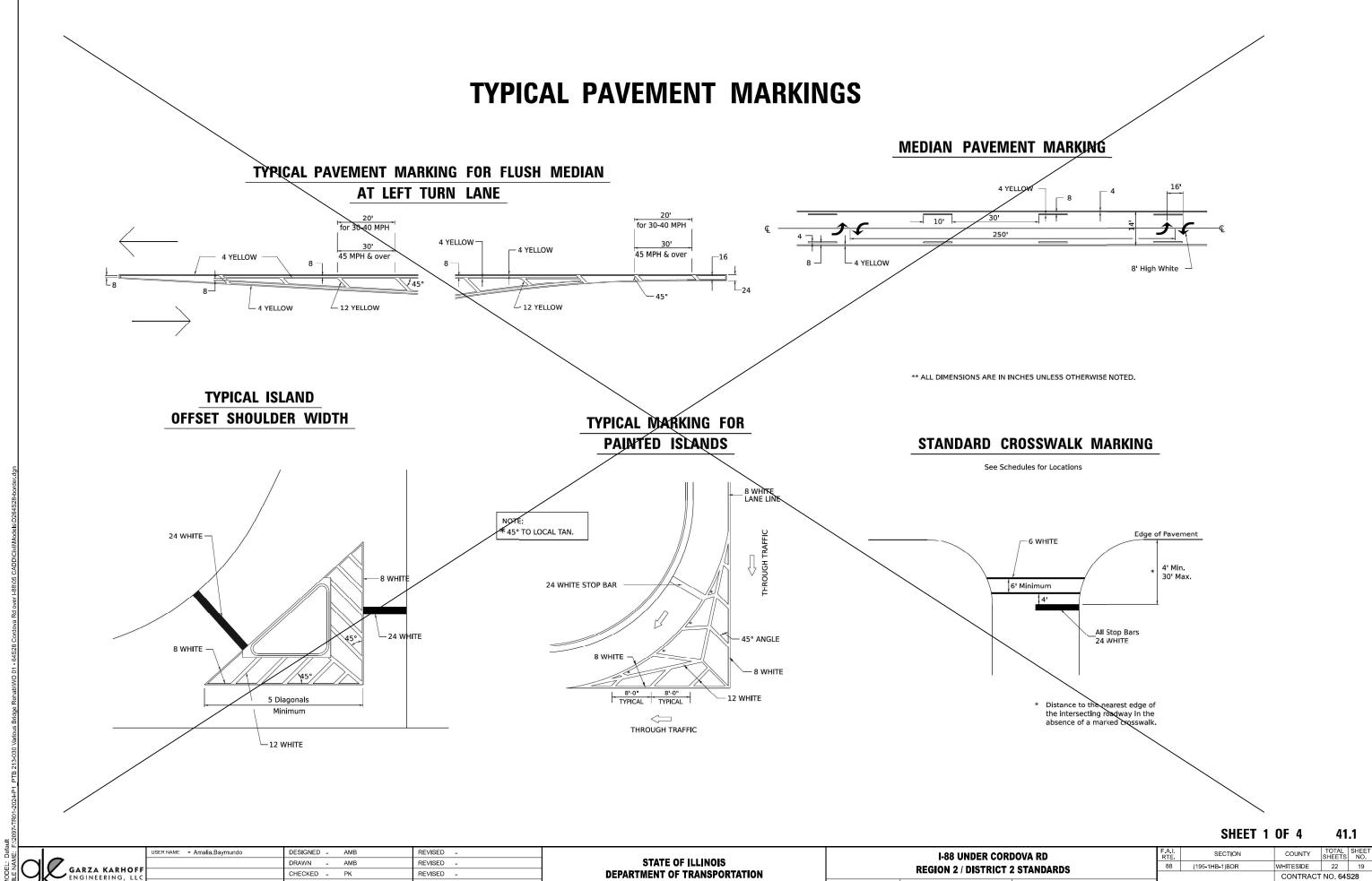


MODEL: Default

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-88 UNDER CORDOVA RD
REGION 2 / DISTRICT 2 STANDARDS

SHEET #### OF #### SHEETS STA.



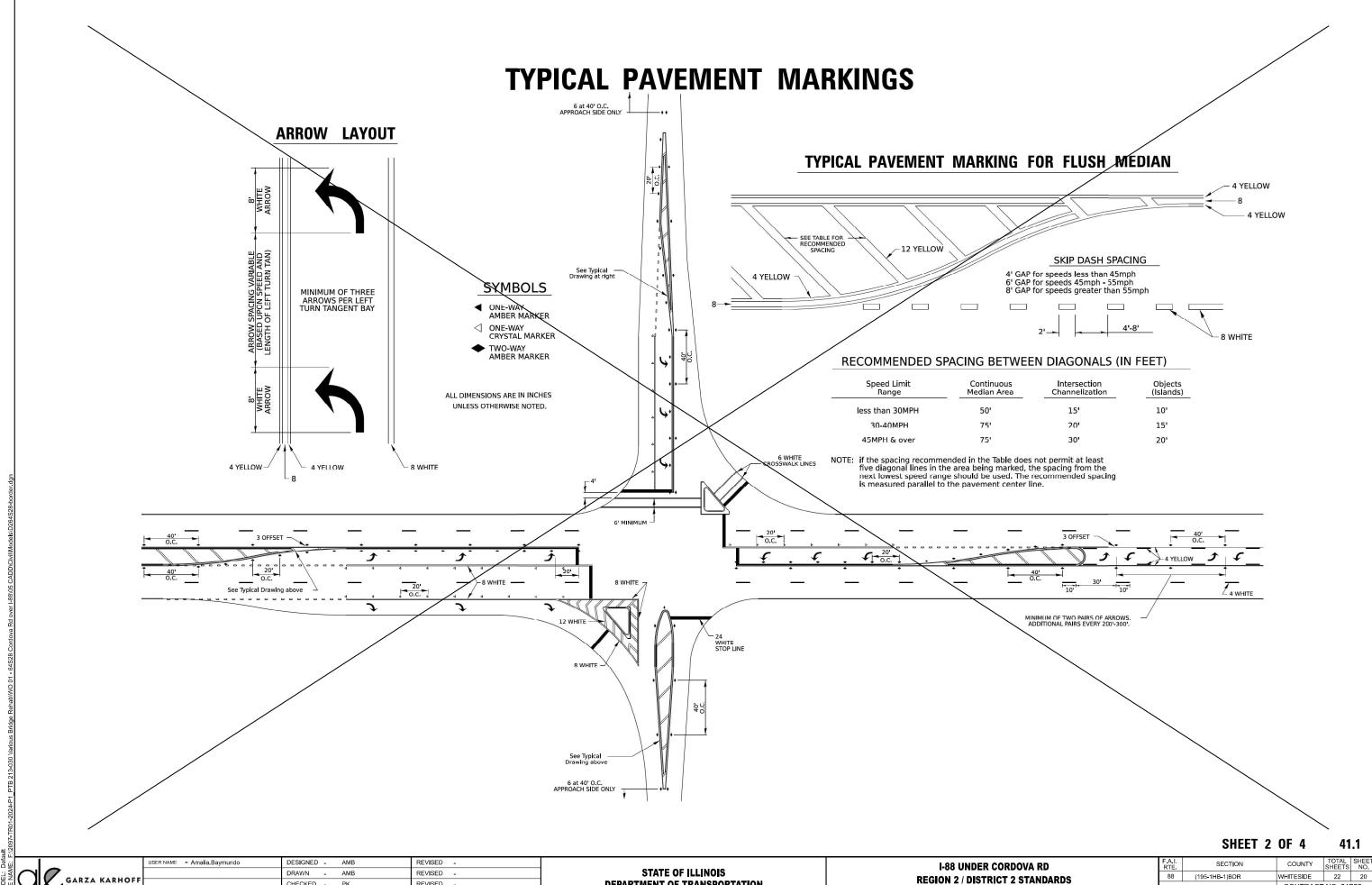
PLOT DATE = 4/29/2025

DEPARTMENT OF TRANSPORTATION

REVISED -

REGION 2 / DISTRICT 2 STANDARDS OF 5 SHEETS STA.

88 (195-1HB-1)BDR WHITESIDE 22 19 CONTRACT NO. 64S28



NGINEERING, LLC

PLOT DATE = 4/29/2025

DATE

REVISED

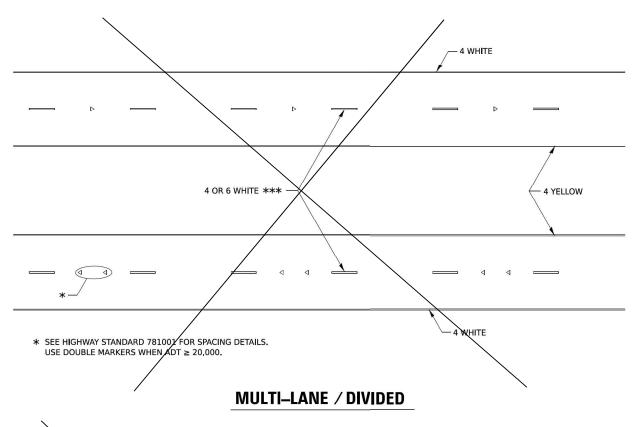
REVISED .

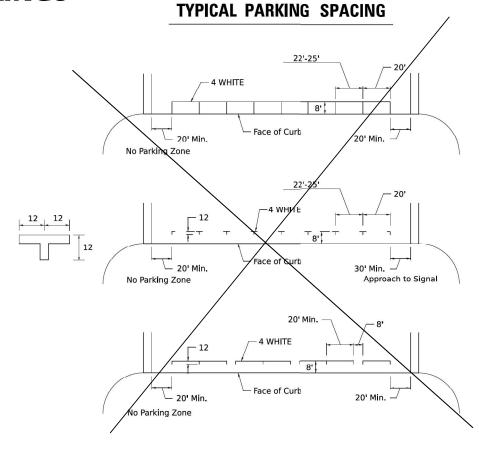
REGION 2 / DISTRICT 2 STANDARDS OF 5 SHEETS STA.

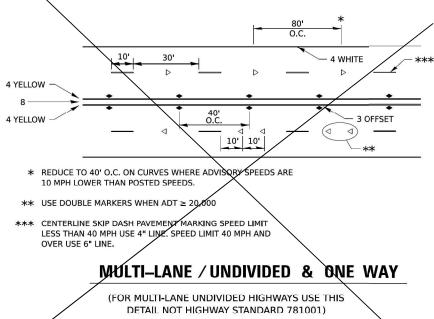
88 (195-1HB-1)BDR WHITESIDE 22 20 CONTRACT NO. 64S28

SCALE:

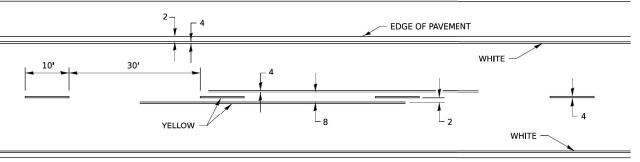
TYPICAL PAVEMENT MARKINGS







TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



SHEET 3 OF 4

C

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

I-88 UNDER CORDOVA RD
REGION 2 / DISTRICT 2 STANDARDS

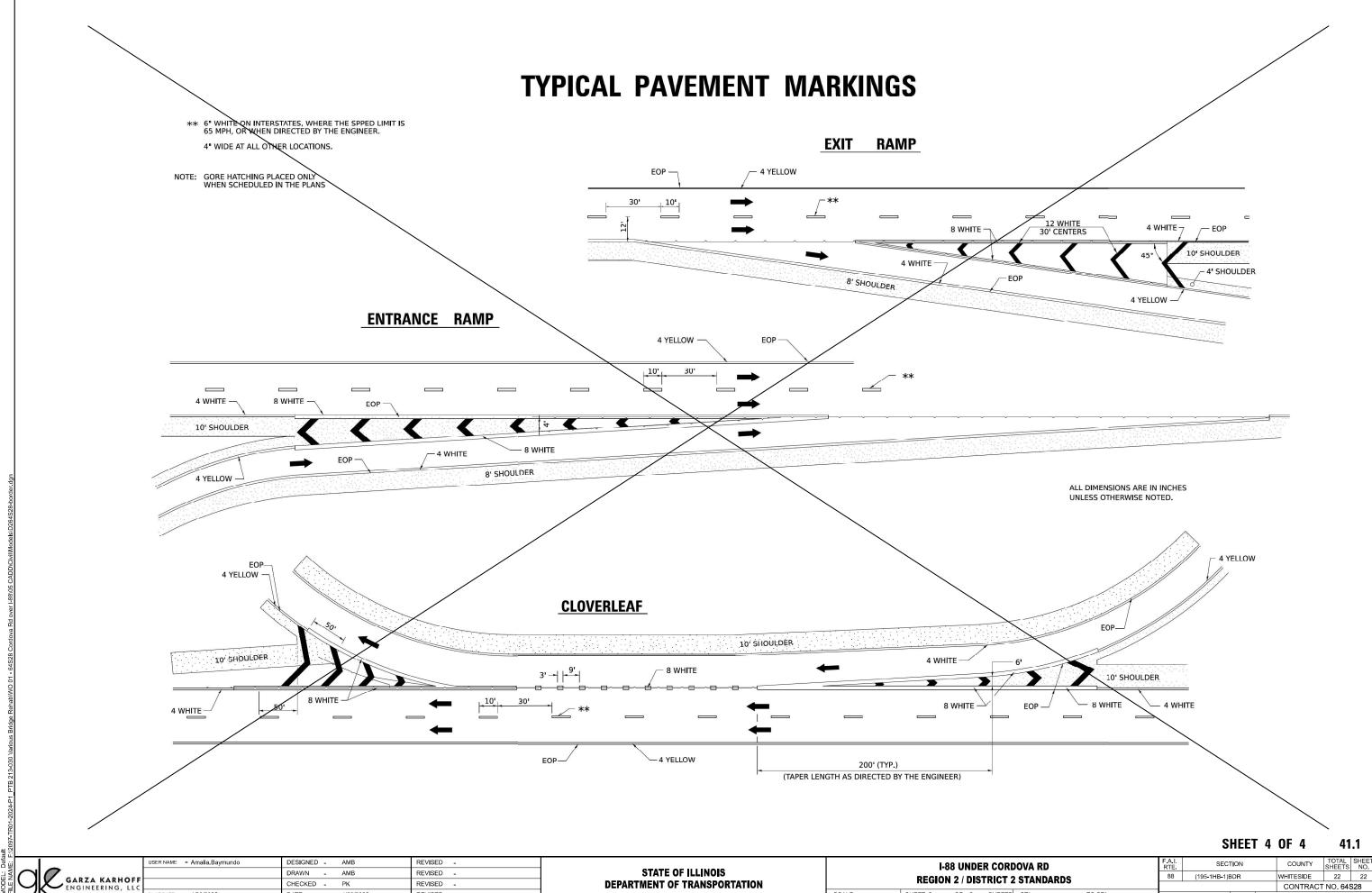
SHEET 4 OF 5 SHEETS STA. TO:

 F.A.I. RTE.
 SECTION
 COUNTY COUNTY
 TOTAL SHEETS VO.
 SHEETS VO.

 88
 (195-1HB-1)BDR
 WHITESIDE
 22
 21

 CONTRACT NO. 64S28

41.1



DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARDS SHEET 5 OF 5 SHEETS STA.

WHITESIDE 22 22 CONTRACT NO. 64S28

REVISED PLOT DATE = 4/29/2025 DATE - 4/29/2025 REVISED -