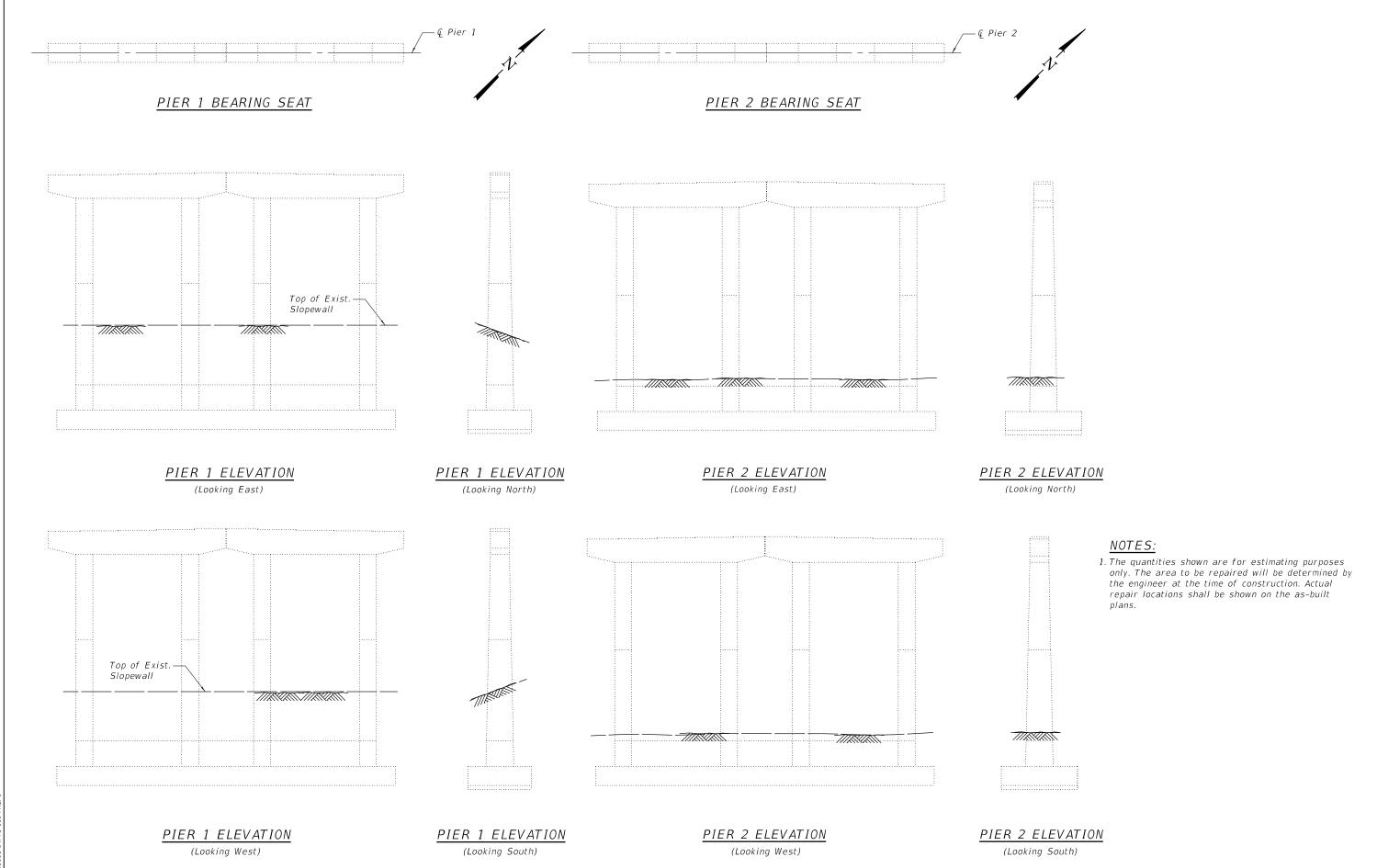


A E G ATLAS ENGINEERING GROUP, LTD.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER PEDESTAL DETAILS IV STRUCTURE NO. 081-0106 SHEET S-118 OF S-134 SHEETS

10/5/2020 3:49:29 PM



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

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

 280
 (81-1B)D&(81-1-1,81-1-2)RS-1
 ROCK ISLAND
 306
 202

CONTRACT NO. 64F78

PIER REPAIRS I

STRUCTURE NO. 081-0106

SHEET S-119 OF S-134 SHEETS

SBURNS M2DONNELL

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USER NAME = eckay

PLOT DATE = 10/5/2020

DESIGNED - ECK

CHECKED - JGS

DRAWN - SPB

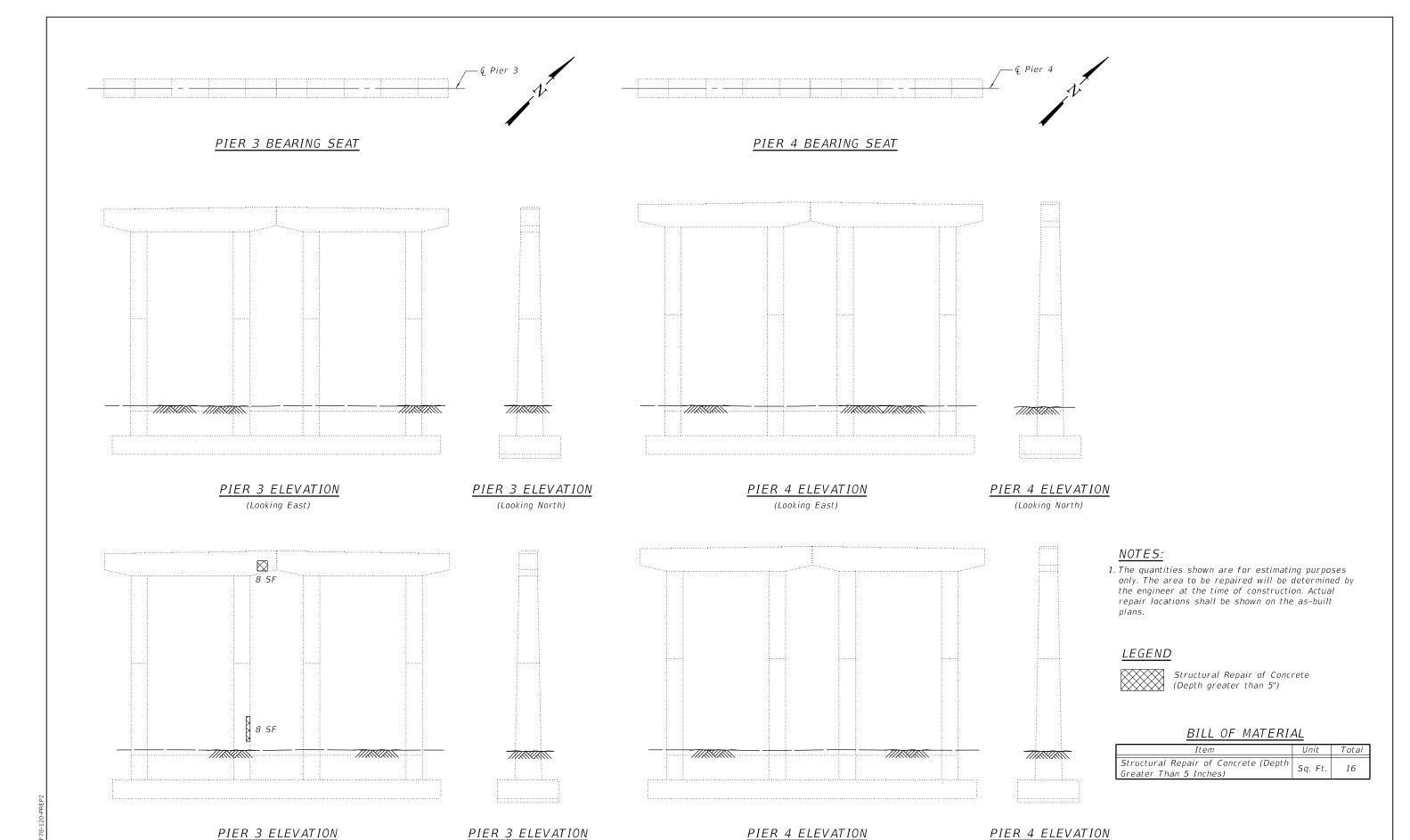
CHECKED - JGS

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REVISED -



BURNS M2DONNELL

USER NAME = eckay DESIGNED - ECK REVISED -CHECKED - JGS REVISED -DRAWN - SPB REVISED -PLOT DATE = 10/5/2020 CHECKED - JGS REVISED -

(Looking South)

(Looking West)

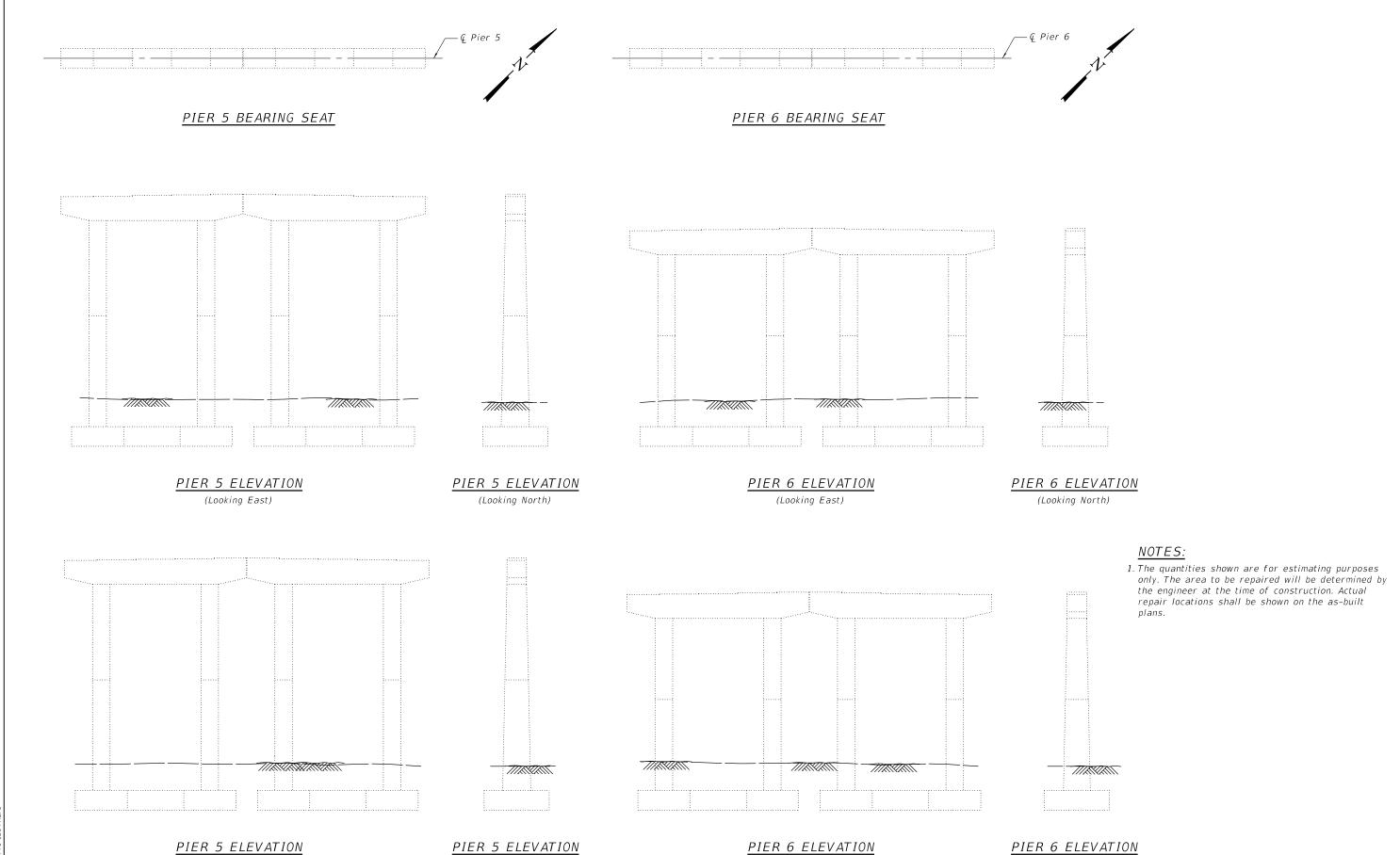
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

(Looking West)

PIER REPAIRS II STRUCTURE NO. 081-0106 SHEET S-120 OF S-134 SHEETS

(Looking South)

SECTION 280 (81-1B)D&(81-1-1,81-1-2)RS-1 ROCK ISLAND 306 203 CONTRACT NO. 64F78



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

(Looking West)

(Looking South)

PIER REPAIRS III

STRUCTURE NO. 081-0106

SHEET S-121 OF S-134 SHEETS

CONTRACT NO. 64F78

(Looking South)

REVISED -

REVISED -

REVISED -

REVISED -

SBURNS M2DONNELL

(Looking West)

DESIGNED - ECK

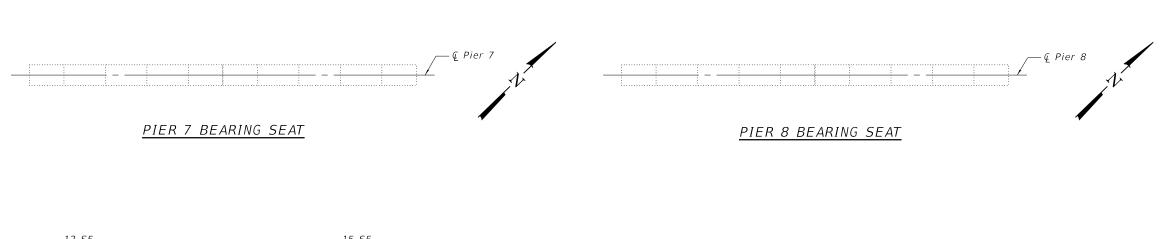
CHECKED - JGS

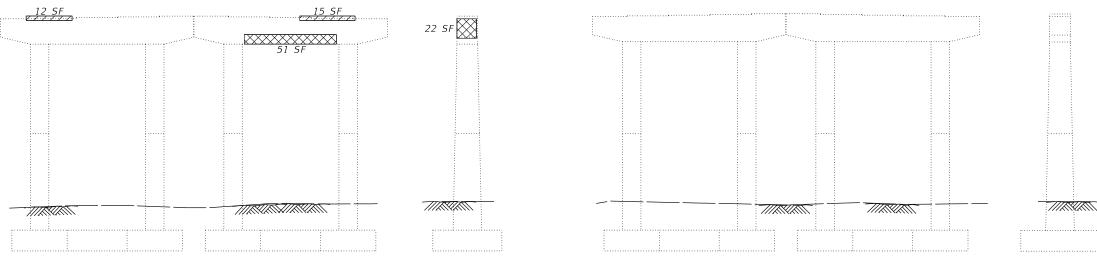
DRAWN - SPB

CHECKED - JGS

USER NAME = eckay

PLOT DATE = 10/5/2020



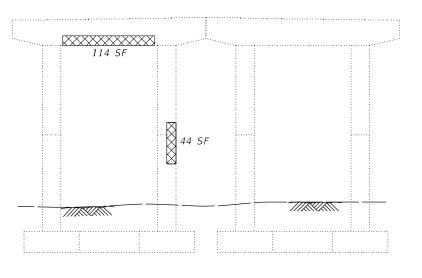


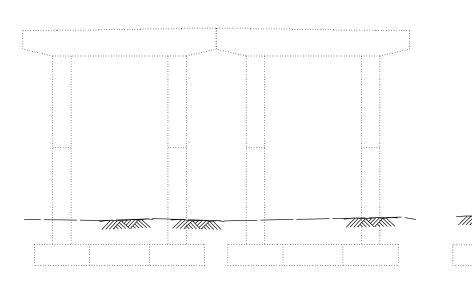
PIER 7 ELEVATION
(Looking East)

PIER 7 ELEVATION
(Looking North)

PIER 8 ELEVATION (Looking East)

PIER 8 ELEVATION
(Looking North)





NOTES:

1. The quantities shown are for estimating purposes only. The area to be repaired will be determined by the engineer at the time of construction. Actual repair locations shall be shown on the as-built plans.

LEGEND

Structural Repair of Concrete (Depth equal to or less than 5")



Structural Repair of Concrete (Depth greater than 5")

BILL OF MATERIAL

<u> </u>		
Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)		
Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	231

PIER 7 ELEVATION

(Looking West)

PIER 7 ELEVATION

(Looking South)

PIER 8 ELEVATION

(Looking West)

PIER 8 ELEVATION

(Looking South)



USER NAME	-	eckay	DESIGNED	-	ECK	REVISED	-
			CHECKED	-	JGS	REVISED	-
PLOT SCALE	-	N.T.S.	DRAWN	-	SPB	REVISED	-
PLOT DATE	-	10/5/2020	CHECKED	-	JGS	REVISED	-

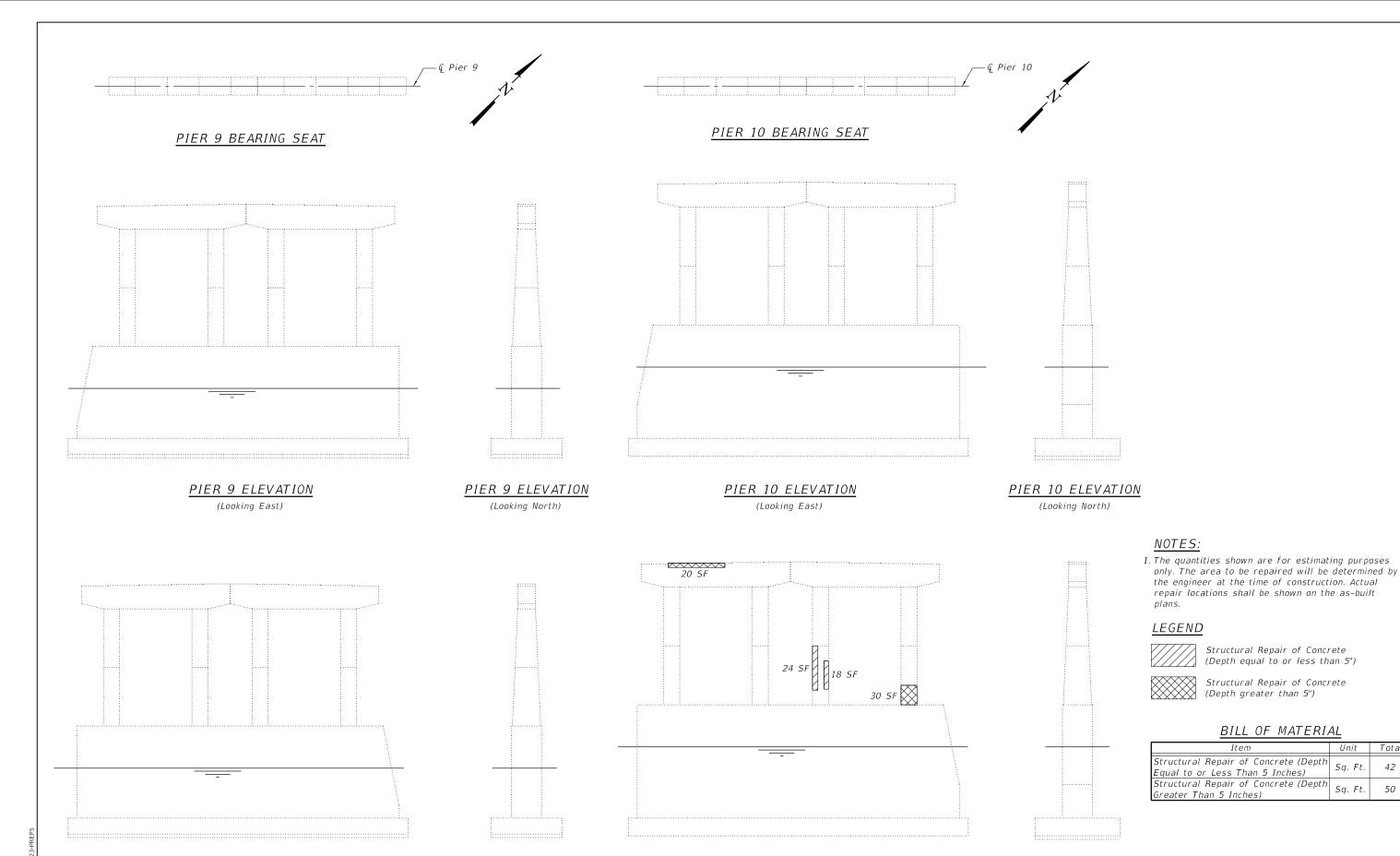
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER REPAIRS IV STRUCTURE NO. 081-0106 SHEET S-122 OF S-134 SHEETS F.A.I. SECTION COUNTY TOTAL SHEETS NO.

280 (81-1B)D&(81-1-1,81-1-2)RS-1 ROCK ISLAND 306 2705

CONTRACT NO. 64-78

10/5/2020 3:49:58 PM



PIER 9 ELEVATION (Looking West)

PIER 9 ELEVATION (Looking South)

PIER 10 ELEVATION

(Looking West)

PIER 10 ELEVATION

(Looking South)

BURNS M2DONNELL

	USER NAME	=	eckay	DESIGNED	-	ECK	REVISED	-
				CHECKED	-	JGS	REVISED	-
_	PLOT SCALE	-	N.T.S.	DRAWN	-	SPB	REVISED	-
	PLOT DATE	-	10/5/2020	CHECKED	-	JGS	REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

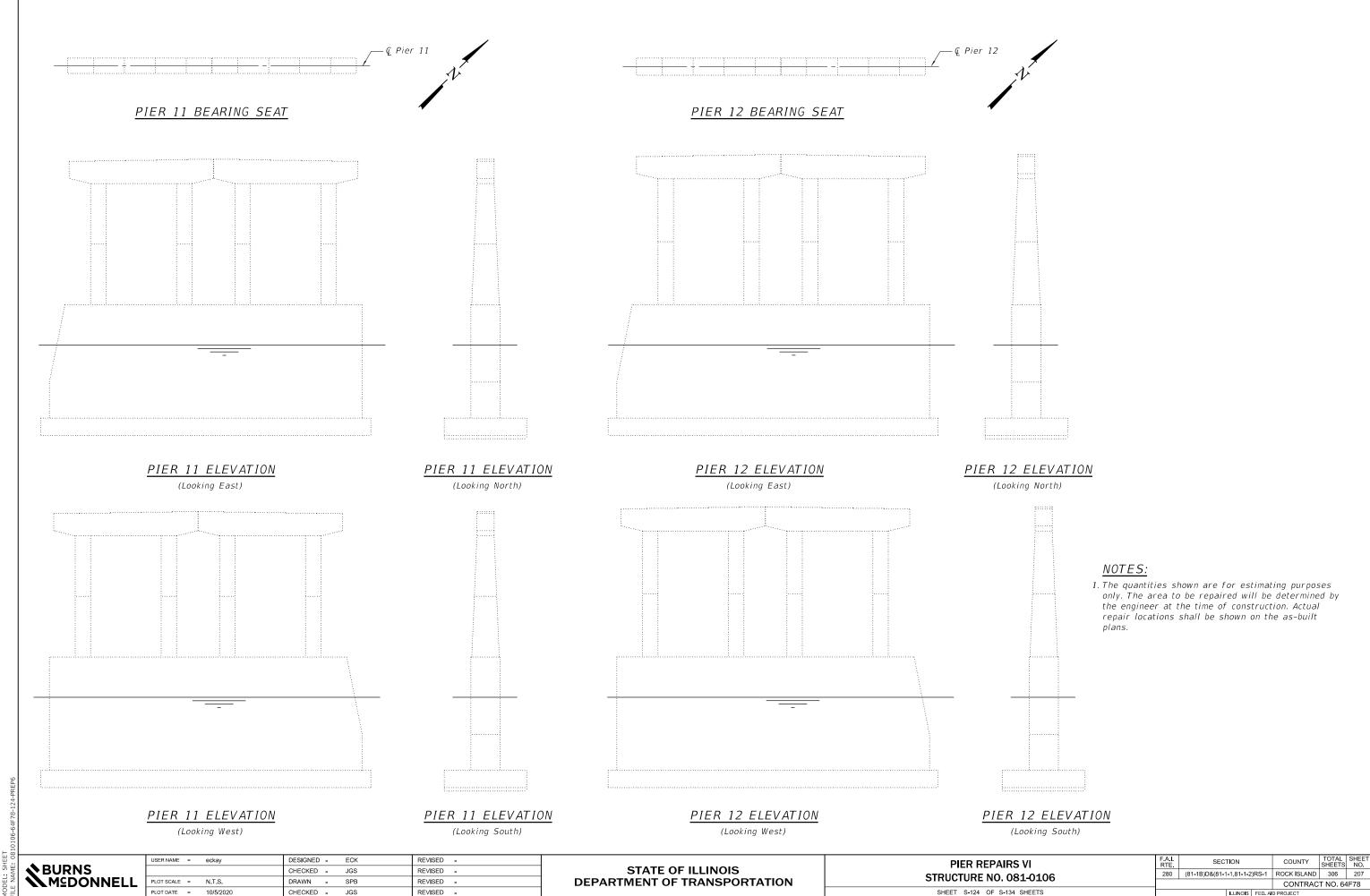
PIER REPAIRS V **STRUCTURE NO. 081-0106** SHEET S-123 OF S-134 SHEETS

SECTION 280 (81-1B)D&(81-1-1,81-1-2)RS-1 ROCK ISLAND 306 206 CONTRACT NO. 64F78

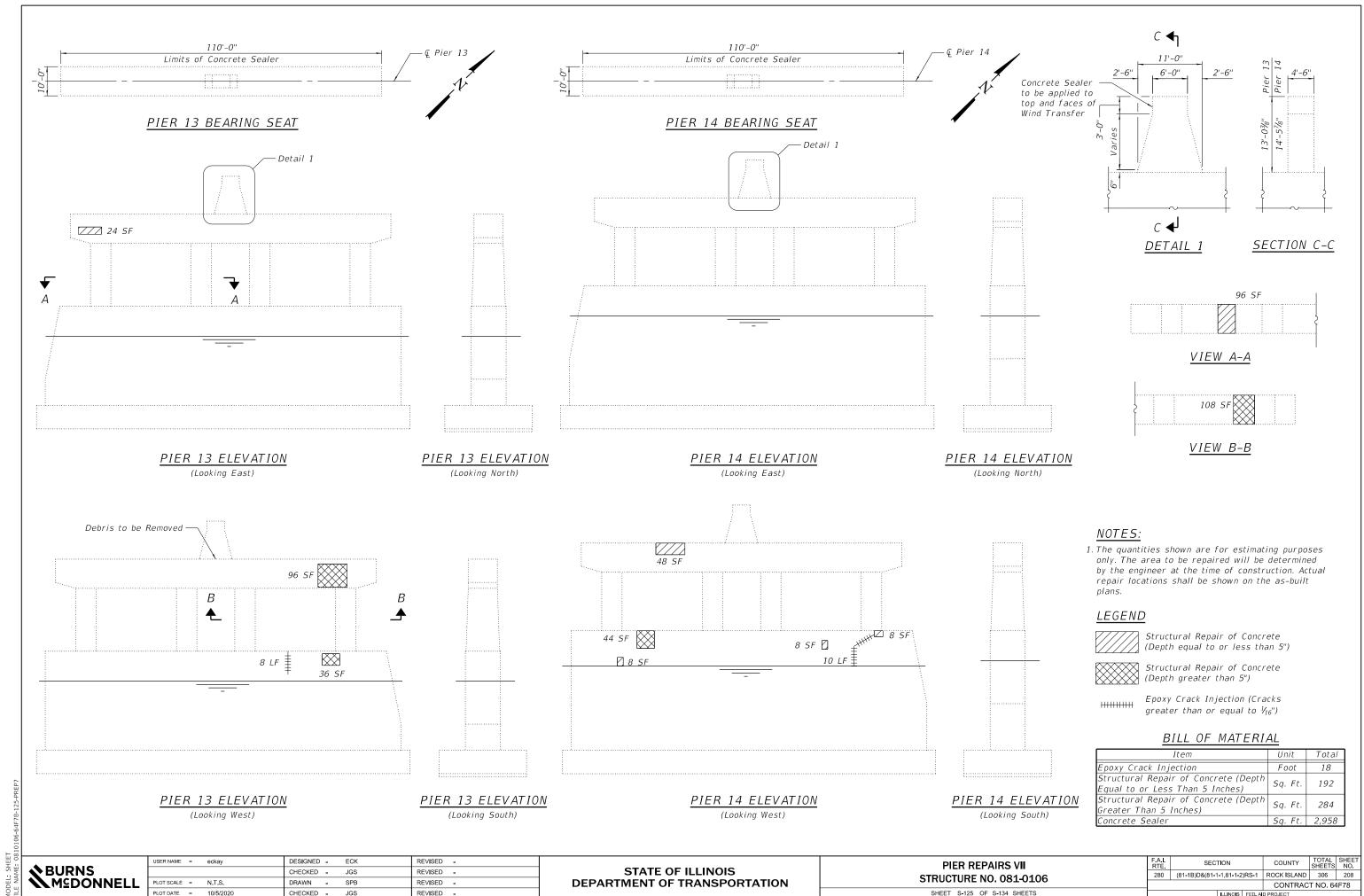
Unit Total

Sq. Ft.

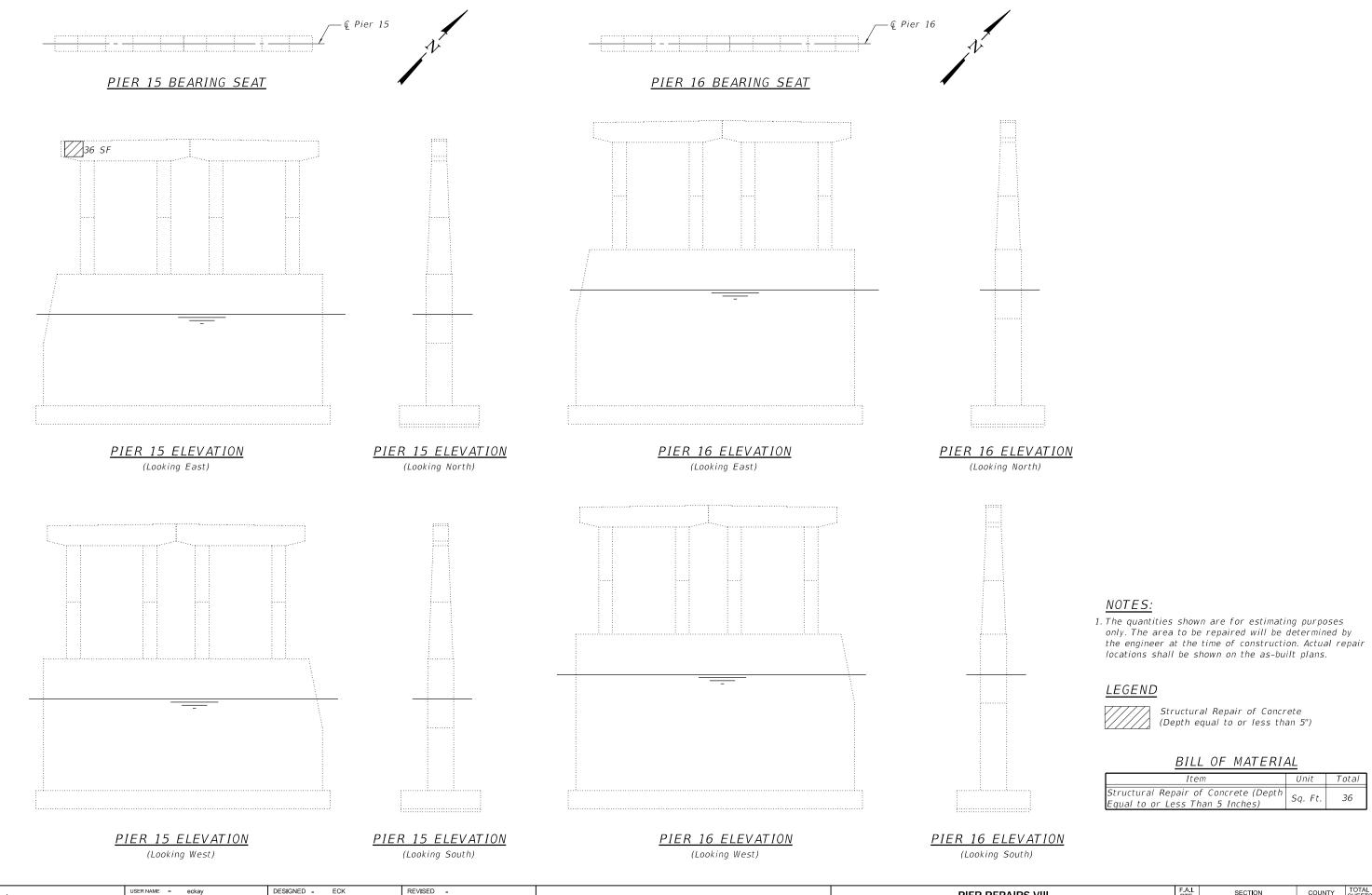
42



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10/5/2020 3:50:21 PM

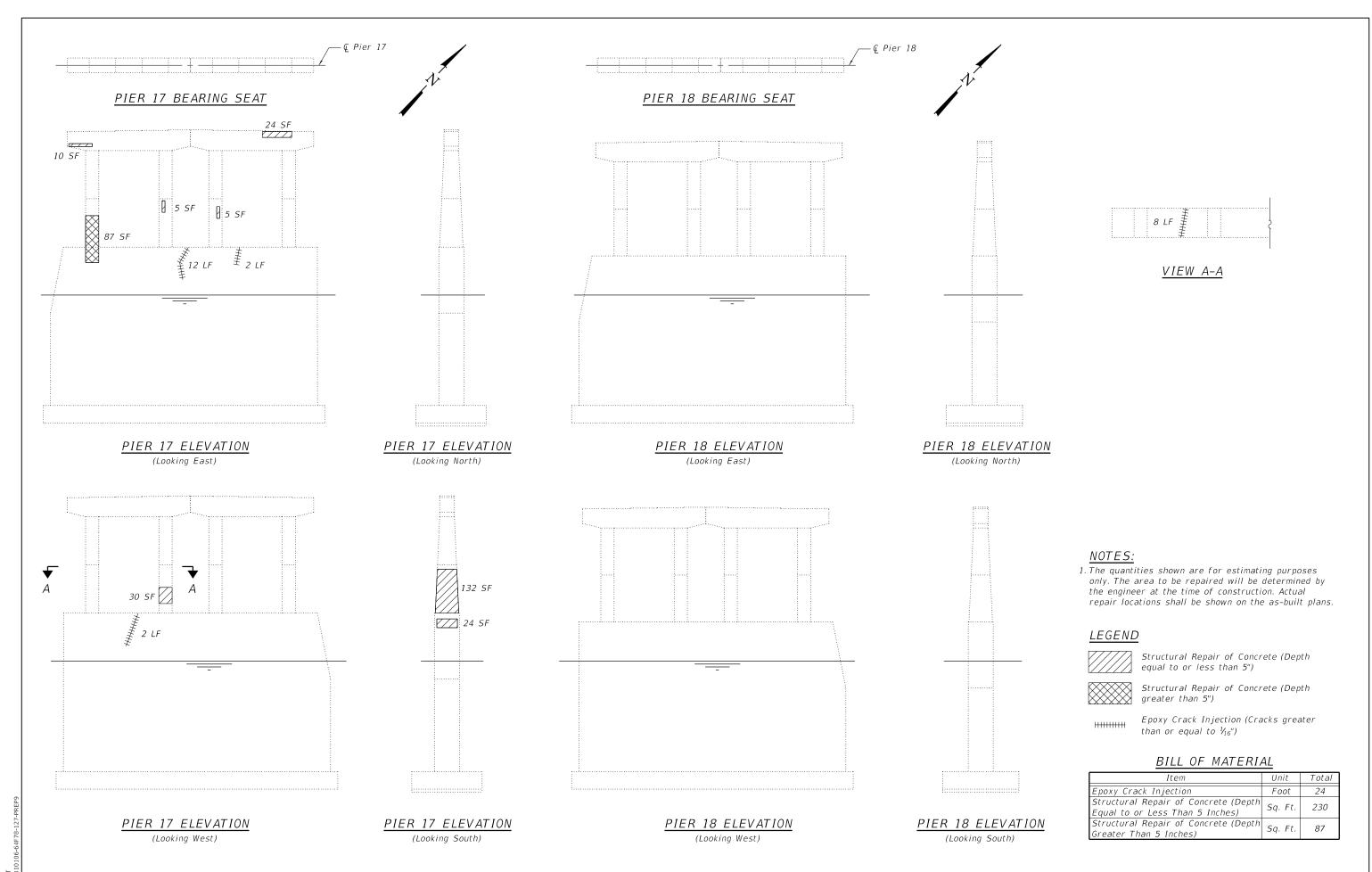


STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PIER REPAIRS VIII
STRUCTURE NO. 081-0106

SHEET S-126 OF S-134 SHEETS

10/5/2020 3:50:29 PM



SBURNS M⊈DONNELL

 USER NAME
 =
 eckay
 DESIGNED
 ECK
 REVISED

 CHECKED
 JGS
 REVISED

 PLOT SCALE
 =
 N.T.S.
 DRAWN
 SPB
 REVISED

 PLOT DATE
 =
 10/5/2020
 CHECKED
 JGS
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

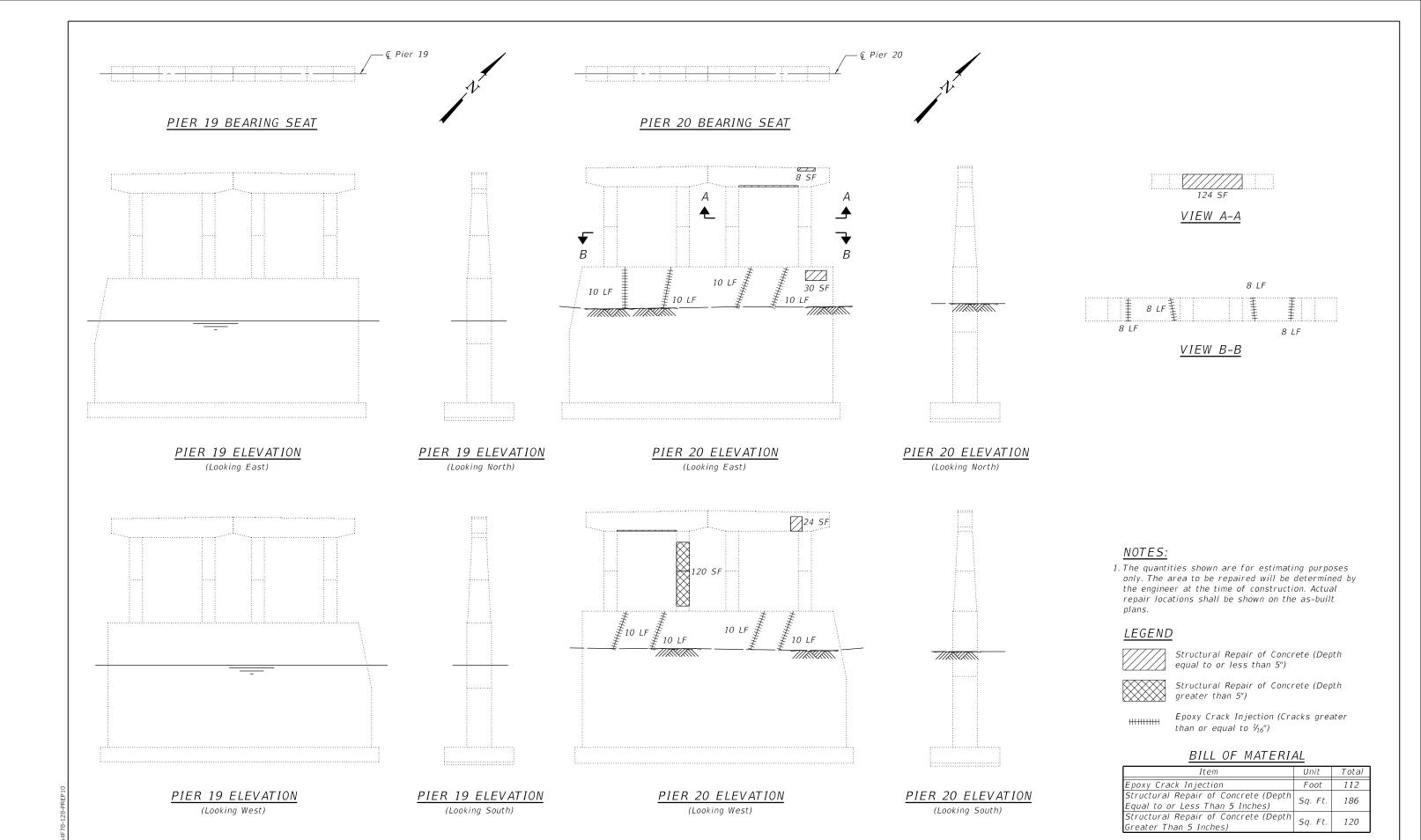
PIER REPAIRS IX
STRUCTURE NO. 081-0106

SHEET S-127 OF S-134 SHEETS

 F.A.I. RTE.
 SECTION
 COUNTY
 TOTAL SHEETS
 NO.

 280
 (81-1B)D&(81-1-1,81-1-2)RS-1
 ROCK ISLAND
 306
 210

 CONTRACT NO. 64F78



BURNS	
MEDONNELL	F

USER NAME = eckay	DESIGNED - ECK	REVISED -
	CHECKED - JGS	REVISED -
PLOT SCALE = N.T.S.	DRAWN - SPB	REVISED -
PLOT DATE = 10/5/2020	CHECKED - JGS	REVISED -

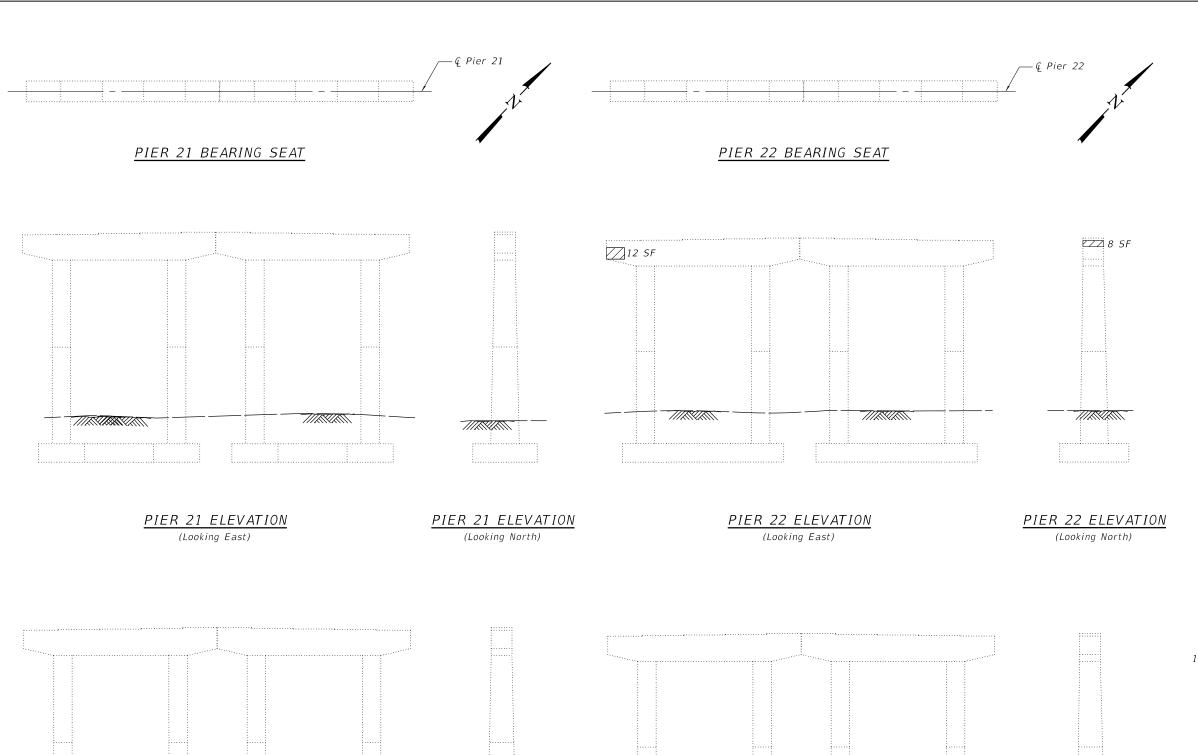
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PIER REPAIRS X
STRUCTURE NO. 081-0106

SHEET S-128 OF S-134 SHEETS

A.I. TE.	SEC.	TION		COUNTY	TOTAL SHEETS	SHEET NO.
80	(81-1B)D&(81-1-1,81-1-2)RS-1			ROCK ISLAND	306	211
			CONTRAC	T NO. 64	1F78	
		ILLINOIS	FED. A	D PROJECT		

10/5/2020 3:50:43 PM



NOTES:

1. The quantities shown are for estimating purposes only. The area to be repaired will be determined by the engineer at the time of construction. Actual repair locations shall be shown on the as-built plans.

<u>LEGEND</u>

Structural Repair of Concrete (Depth equal to or less than 5")

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	20

PIER 21 ELEVATION

///

(Looking West)

PIER 21 ELEVATION (Looking South)

PIER 22 ELEVATION (Looking West)

PIER 22 ELEVATION (Looking South)

Item	
Structural Repair of Concrete (Depth	5,
Equal to or Less Than 5 Inches))

NBURNS MSDONNELL

USER NAME = eckay	DESIGNED - ECK	REVISED -
	CHECKED - JGS	REVISED -
PLOT SCALE = N.T.S.	DRAWN - SPB	REVISED -
PLOT DATE = 10/5/2020	CHECKED - JGS	REVISED -

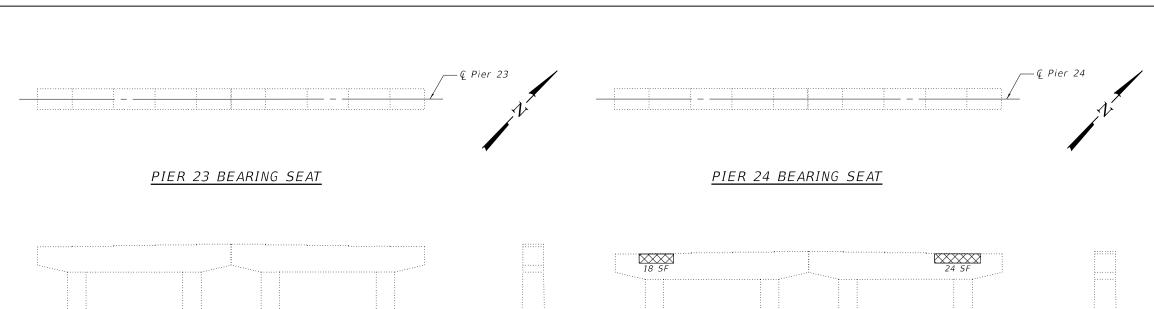
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

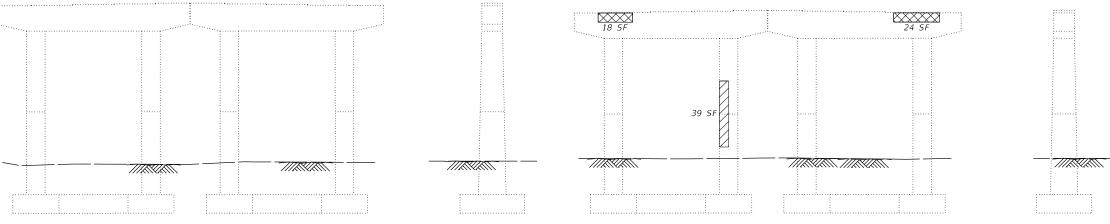
PIER REPAIRS XI STRUCTURE NO. 081-0106 SHEET S-129 OF S-134 SHEETS

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

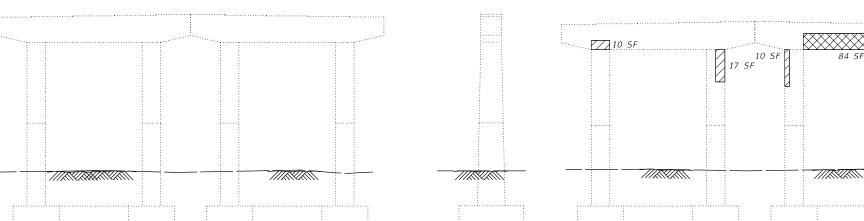
 280
 (81-1B)D&(81-1-1,81-1-2)RS-1
 ROCK ISLAND
 306
 212
 CONTRACT NO. 64F78

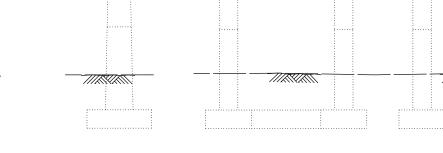
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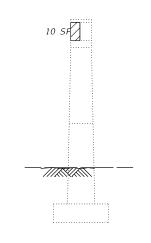












1. The quantities shown are for estimating purposes only. The area to be repaired will be determined by the engineer at the time of construction. Actual repair locations shall be shown on the as-built plans.

<u>LEGEND</u>

NOTES:

Structural Repair of Concrete (Depth equal to or less than 5")

Structural Repair of Concrete (Depth greater than 5")

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Deptl Equal to or Less Than 5 Inches) Structural Repair of Concrete (Deptl Groater Than 5 Inches)	Sq. Ft.	86
Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	126

PIER 23 ELEVATION

(Looking West)

PIER 23 ELEVATION (Looking South)

PIER 24 ELEVATION (Looking West)

PIER 24 ELEVATION (Looking South)

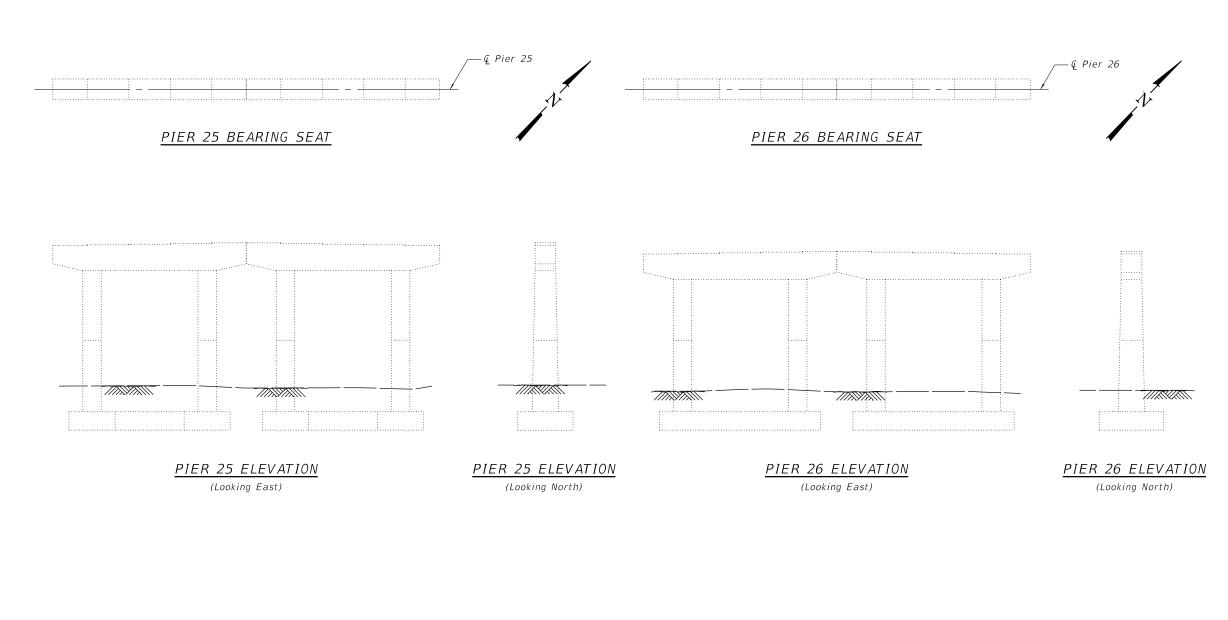
SBURNS M⊈DONNELL

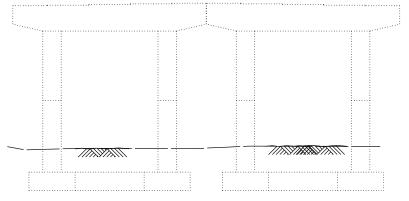
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	CHECKED - JGS	REVISED -
PLOT SCALE = N.T.S.	DRAWN - SPB	REVISED -
PLOT DATE = 10/5/2020	CHECKED - JGS	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PIER REPAIRS XII STRUCTURE NO. 081-0106 SHEET S-130 OF S-134 SHEETS

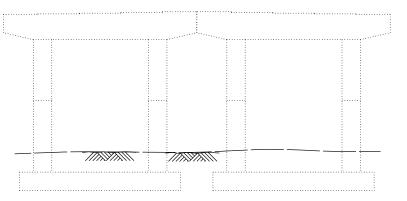
SECTION 280 (81-1B)D&(81-1-1,81-1-2)RS-1 ROCK ISLAND 306 213 CONTRACT NO. 64F78



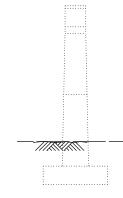




PIER 25 ELEVATION (Looking South)



PIER 26 ELEVATION (Looking West)



PIER 26 ELEVATION

♦ BURNS
POKIAS
MSDONNELL

USER NAME = eckay	DESIGNED - ECK	REVISED -
	CHECKED - JGS	REVISED -
PLOT SCALE = N.T.S.	DRAWN - SPB	REVISED -
PLOT DATE = 10/5/2020	CHECKED - JGS	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	R RI			XIII 31-0106
SHEET	S-131	OF	S-134	SHEETS

λ.I. Έ.	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
30	(81-1B)D&(81-1	(81-1B)D&(81-1-1,81-1-2)RS-1		ROCK ISLAND	306	214
				CONTRAC	T NO. 64	‡F78
		ILLINOIS	FED. A	D PROJECT		

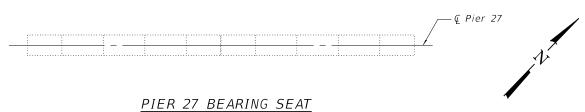
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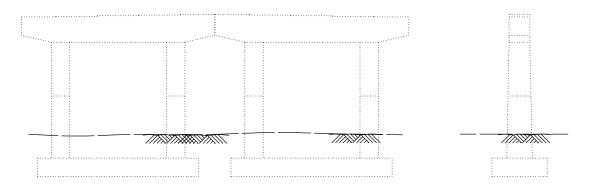
NOTES:

1. The quantities shown are for estimating purposes only. The area to be repaired will be determined by the engineer at the time of construction. Actual repair locations shall be

shown on the as-built plans.

(Looking South)



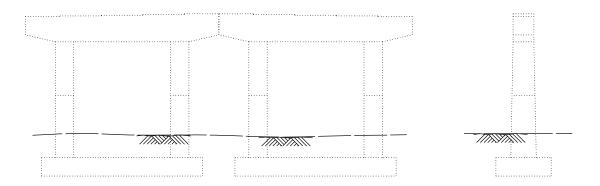


PIER 27 ELEVATION

(Looking East)

<u>PIER 27 ELE</u>VATION

(Looking North)



PIER 27 ELEVATION

(Looking West)

PIER 27 ELEVATION (Looking South)

NOTES:

1. The quantities shown are for estimating purposes only. The area to be repaired will be determined by the engineer at the time of construction. Actual repair locations shall be shown on the as-built plans.

NBURNS MSDONNELL

USER NAME = eckay	DESIGNED - ECK	REVISED -
	CHECKED - JGS	REVISED -
PLOT SCALE = N.T.S.	DRAWN - SPB	REVISED -
PLOT DATE = 10/5/2020	CHECKED - JGS	REVISED -

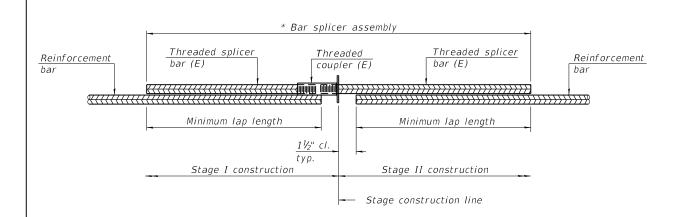
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PIER REPAIRS XIV **STRUCTURE NO. 081-0106** SHEET S-132 OF S-134 SHEETS

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

 280
 (81-1B)D&(81-1-1,81-1-2)RS-1
 ROCK ISLAND
 306
 215
 CONTRACT NO. 64F78

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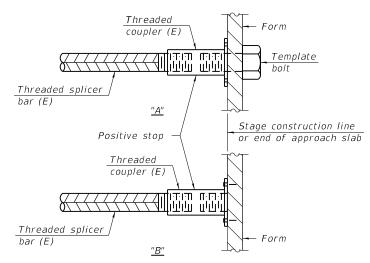
STANDARD BAR SPLICER ASSEMBLY PLAN

(All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + $1\frac{1}{2}$ " + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar	No. assemblies	Minimum
Location	size	required	lap length
East approach	#5	46	3'-2"
East approach	#8	60	5'-1"
E. Appr. Footing	#5	40	3'-2"
West Approach	#5	46	3'-2"
West Approach	#8	60	5'-1"
W. Appr. Footing	#5	40	3'-2"
E. Abutment	#6	6	3'-10"
W. Abutment	#6	6	3'-10"

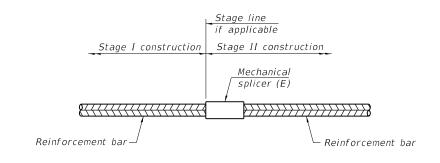


INSTALLATION AND SETTING METHODS

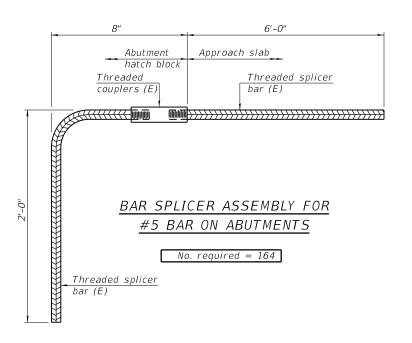
"A" : Set bar splicer assembly by means of a template bolt.

"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER



Votes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

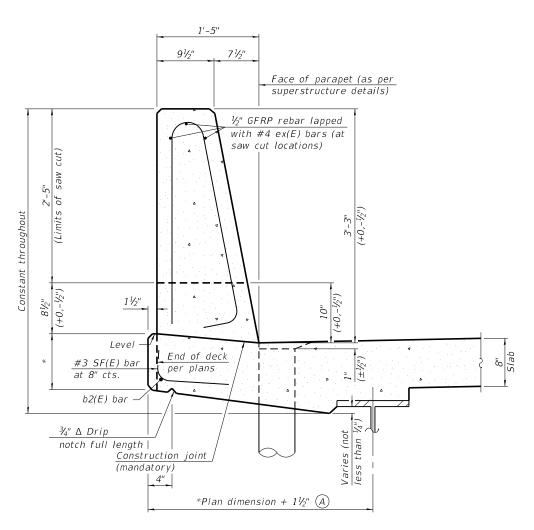
BSD-1

1-1-2020

A E G ATLAS ENGINEERING GROUP, LTD.

	USER NAME = eckay	DESIGNED - NF	REVISED -
ì		CHECKED - JS	REVISED -
	PLOT SCALE = N.T.S.	DRAWN - MS	REVISED -
	PLOT DATE = 10/5/2020	CHECKED - BC	REVISED -

A.I. RTE				COUNTY	TOTAL SHEETS	SHEET NO.
280	(81-1B)D&(81-1-1,81-1-2)RS-1			ROCK ISLAND	306	216
				CONTRAC	T NO. 64	1F78
ILLINOIS FED. AI			D PROJECT			



39" CONSTANT-SLOPE PARAPET SECTION

(Showing dimensions, d(E), and $\frac{1}{2}$ " Ø GFRP rebar)

*See Superstructure Details.

44" CONSTANT-SLOPE PARAPET SECTION

Face of parapet (as per

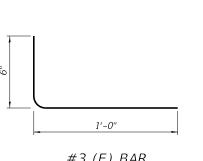
superstructure details)

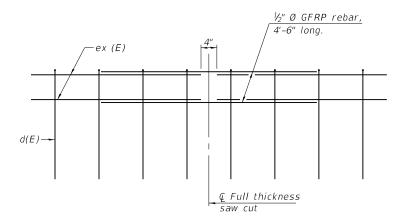
½" GFRP rebar lapped

with #4 ex(E) bars (at

saw cut locations)

(Showing dimensions, d(E), and ½" Ø GFRP rebar)





GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section at each parapet joint location.)

SFP 39-44

1-1-2020

USER NAME =	eckay	DESIGNED -		REVISED	-
		CHECKED -	ECK	REVISED	-
PLOT SCALE =	N.T.S.	DRAWN -	MDW	REVISED	-
PLOT DATE =	10/5/2020	CHECKED -	ECK	REVISED	-

DEPARTMENT OF TRANSPORTATION

CONCRETE PARAPET SLIPFORMING OPTION STRUCTURE NO. 081-0106
SHEET S-134 OF S-134 SHEETS

Notes:

All dimensions shall remain the same as shown on

superstructure details, except dimension A which is

Place full depth aluminum sheets as shown on

Replace all cork joint filler locations with a full

Steel superstructure shown. Other superstructure

to be revised as shown. Additional concrete needed to revise dimension A = 0.00348 cu. yds./ft.

for 39" and 44" parapets.

superstructure details.

thickness saw cut.

types similar.

F.A.I. RTE.			COUNTY	TOTAL SHEETS	SHEET NO.
280	280 (81-1B)D&(81-1-1,81-1-2)RS-1		ROCK ISLAND	306	217
·		CONTRAC	T NO. 64	1F78	
	ILLINOIS	FED. A	D PROJECT		

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#3 (E) BAR

8½" (+0,-½")

at 8" cts.

¾" ∆ Drip

b2(E) bar

notch full length |

1'-5"

8½"

8½"

Level End of deck #3 SF(E) bar

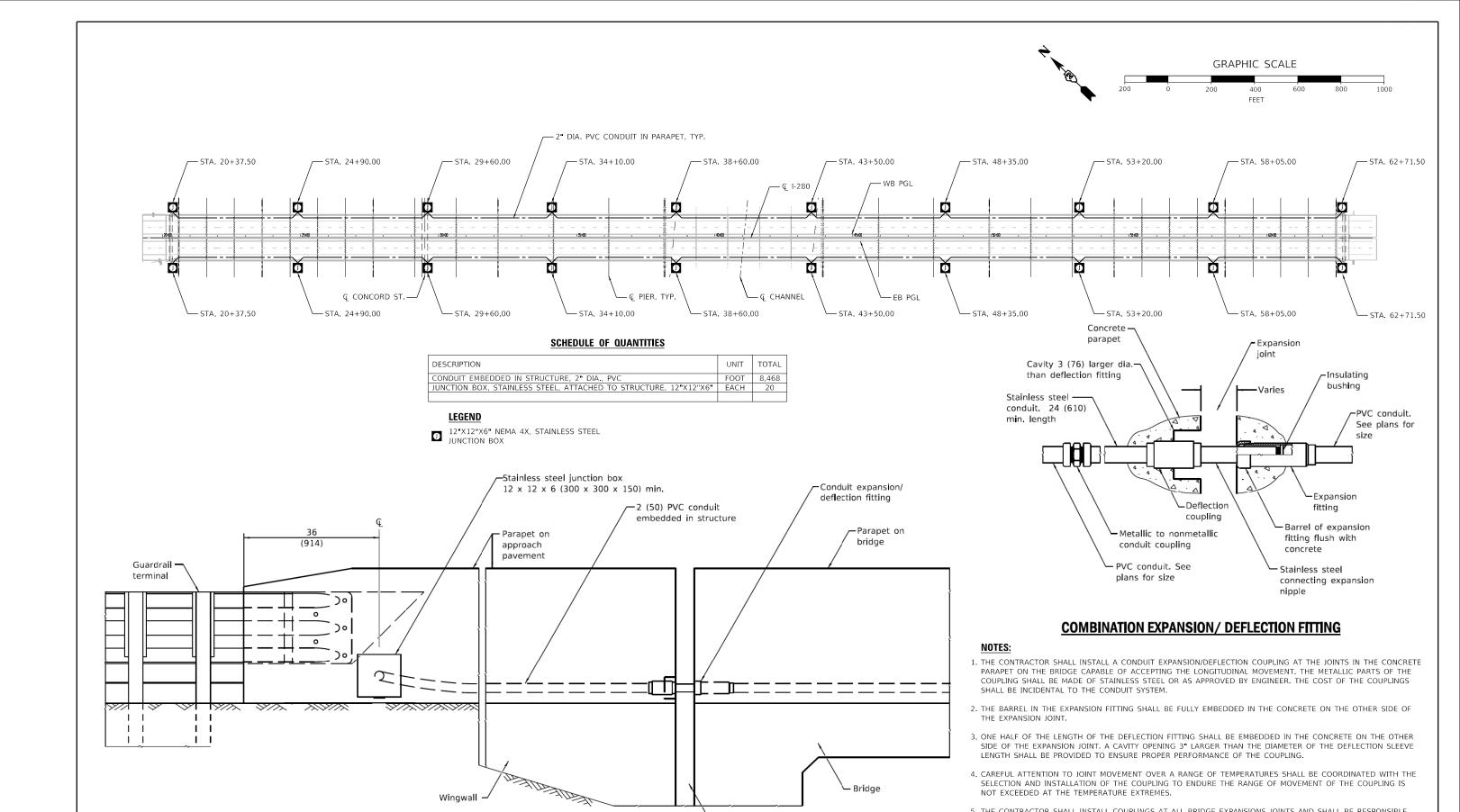
4"_

per plans

Construction joint (mandatory)

*Plan dimension + $1\frac{1}{2}$ " (A)

STATE OF ILLINOIS



JOINTED ABUTMENT WITH PARAPET ON APPROACH PAVEMENT 6. THE CONTRACTOR SHALL COORDINATE THE FINAL LOCATIONS OF JUNCTION BOXES WITH THE ENGINEER.

7. A NYLON ROPE SHALL BE INSTALLED THROUGHOUT BOTH LINES OF CONDUIT. THE PRICE OF THE NYLON ROPE WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE PRICE OF CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC.

5. THE CONTRACTOR SHALL INSTALL COUPLINGS AT ALL BRIDGE EXPANSIONS JOINTS AND SHALL BE RESPONSIBLE

▶BURNS M°DONNELL **M°**DONNELL

DESIGNED - ECK REVISED JSER NAME = eckay DRAWN - JAB REVISED HECKED REVISED OT SCALE = N.T.S.

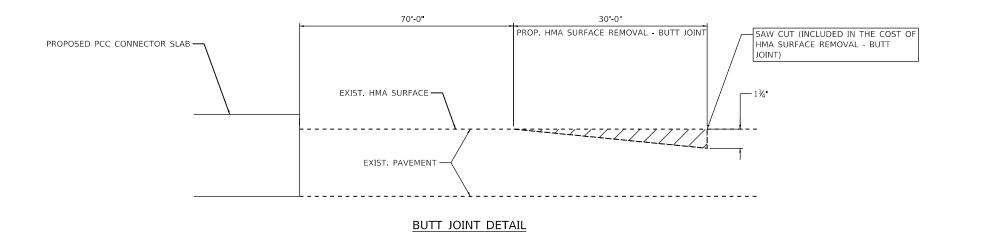
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

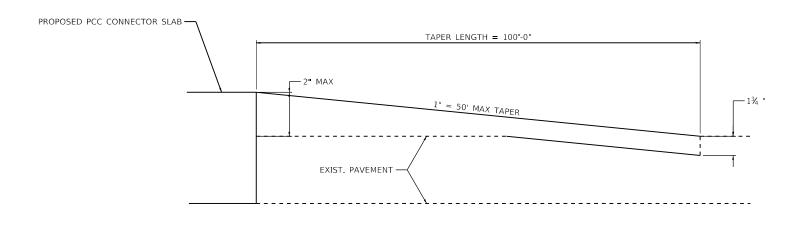
Expansion joint

> PROPOSED CONDUIT PLAN AND DETAILS SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. 19+34.50 TO STA. 63+74.50

FOR DETERMINING THE PROPER NUMBER OF COUPLINGS REQUIRED.

SECTION COUNTY 280 81-1B, 81-1(F&E) & 81-1D ROCK ISLAND 306 218 CONTRACT NO. 64F78





HMA TAPER DETAIL

NOTES

A. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

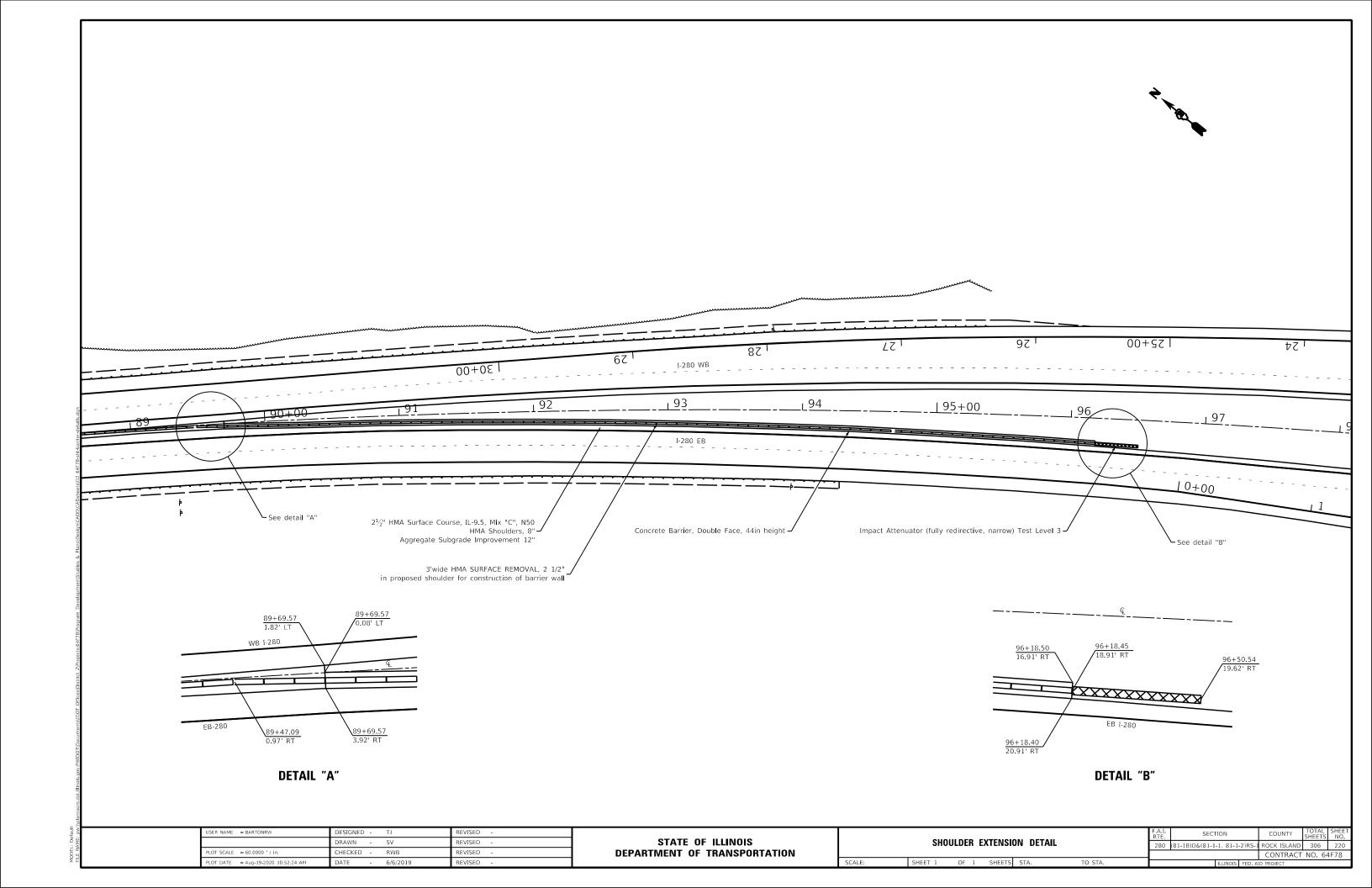
B. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

BASIS OF PAYMENT

THE BUTT JOINT WILL BE PAID FOR THE CONTACT UNIT PRICE PER SQUARE YARD FOR "HOT- MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BULL JOINT".

USER NAME = jirobinson	DESIGNED - SPB	REVISED -
	DRAWN - SPB	REVISED -
PLOT SCALE = 10.0000 / in.	CHECKED - JIR	REVISED -
PLOT DATE = 8/19/2020	DATE -	REVISED -

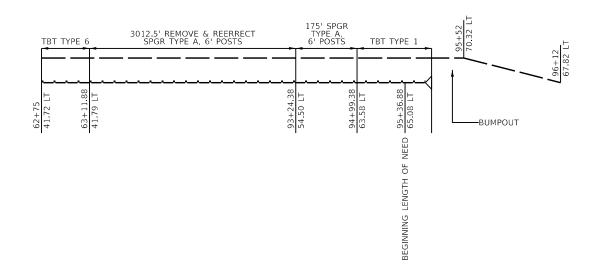
1									F.A.I. SECTION			SHEET NO.
		ROA	IDWAY	IRANSIII	280	81-1B, 81-1	1(F&E) & 81-1D	ROCK ISLAND	306	219		
										CONTRACT	NO. 64	4F78
	SCALE: N/A	SHEET	OF	SHEETS	STA.	TO STA.			ILLINOIS FED.	AID PROJECT		



GUARDRAIL DETAILS

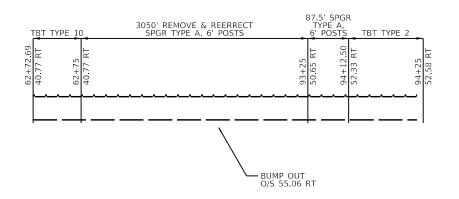
PARAPET WALL & WATER - I-280 WB/LT

STA. 62+51.15 TO STA. 93+76.26

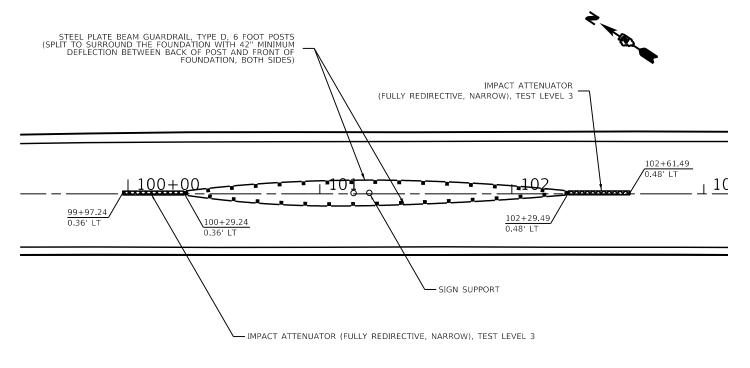


PARAPET WALL & WATER - I-280 EB/RT

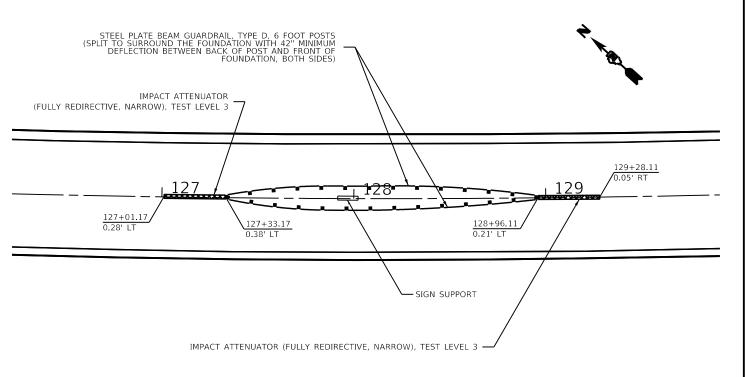
STA. 62+51.15 TO STA. 93+76.26



SIGN SUPPORT AT STA. 101 + 26 IN MEDIAN



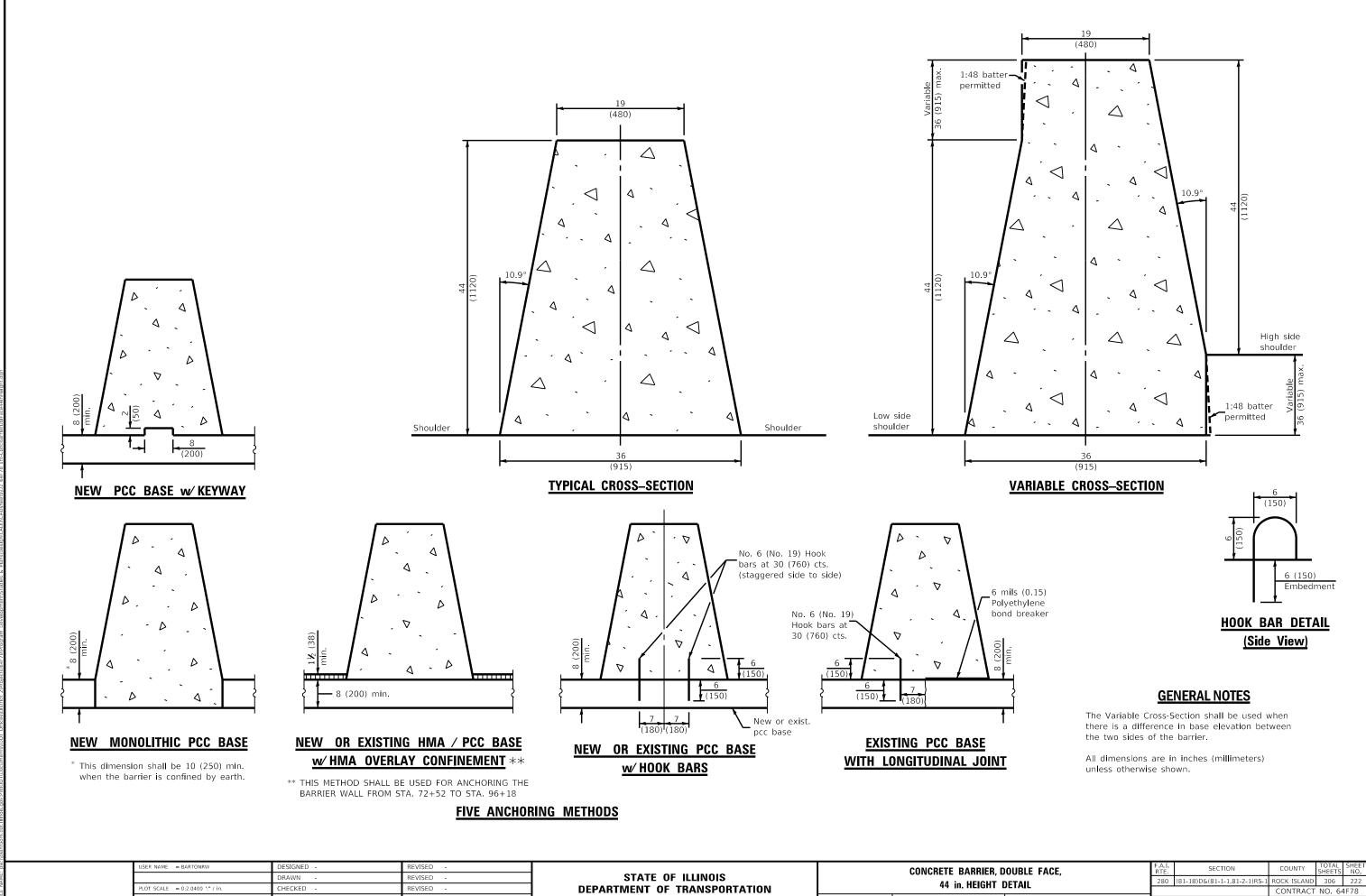
SIGN SUPPORT AT STA. 127 + 91 IN MEDIAN



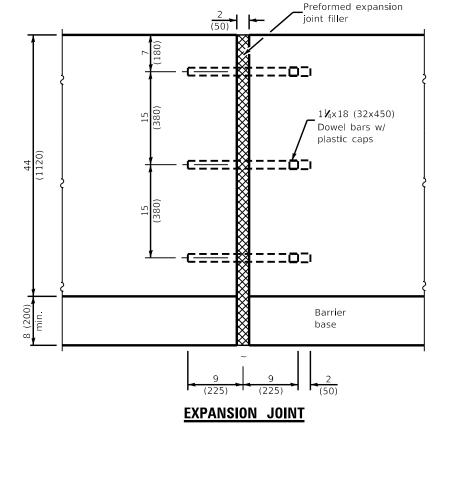
USER NAME = BARTONRW	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = Aug-19-2020 10:56:53 AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

						F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		GUARD	RAIL DE	IAILS		280	(81-1B)D&(81-1-1, 81-1-2)RS-1	ROCK ISLAND	306	221
								CONTRACT	NO. 64	1F78
NTS	SHEET 1	OF 1	SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		



MODEL: Default



REVISED -

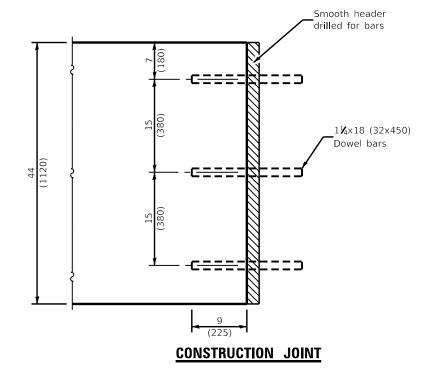
REVISED -

DESIGNED -

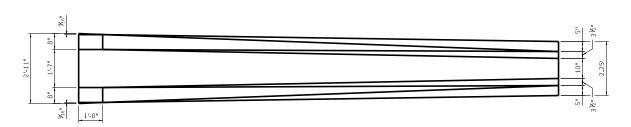
CHECKED -

DRAWN

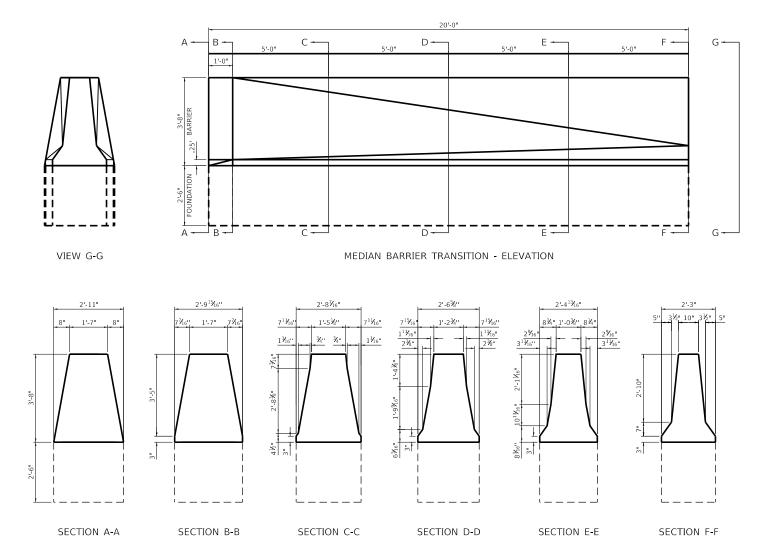
PLOT SCALE = 0:2.0400 ':" / in.
PLOT DATE = Aug-19-2020 10:59:26 AM

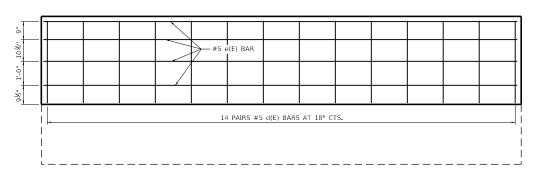


STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

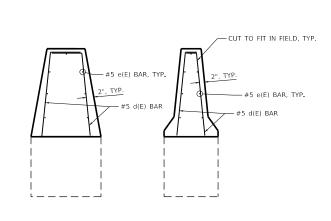


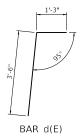
MEDIAN BARRIER TRANSITION - TOP VIEW





MEDIAN BARRIER TRANSITION - REINFORCEMENT





REINFOREMENT BAR TABLE

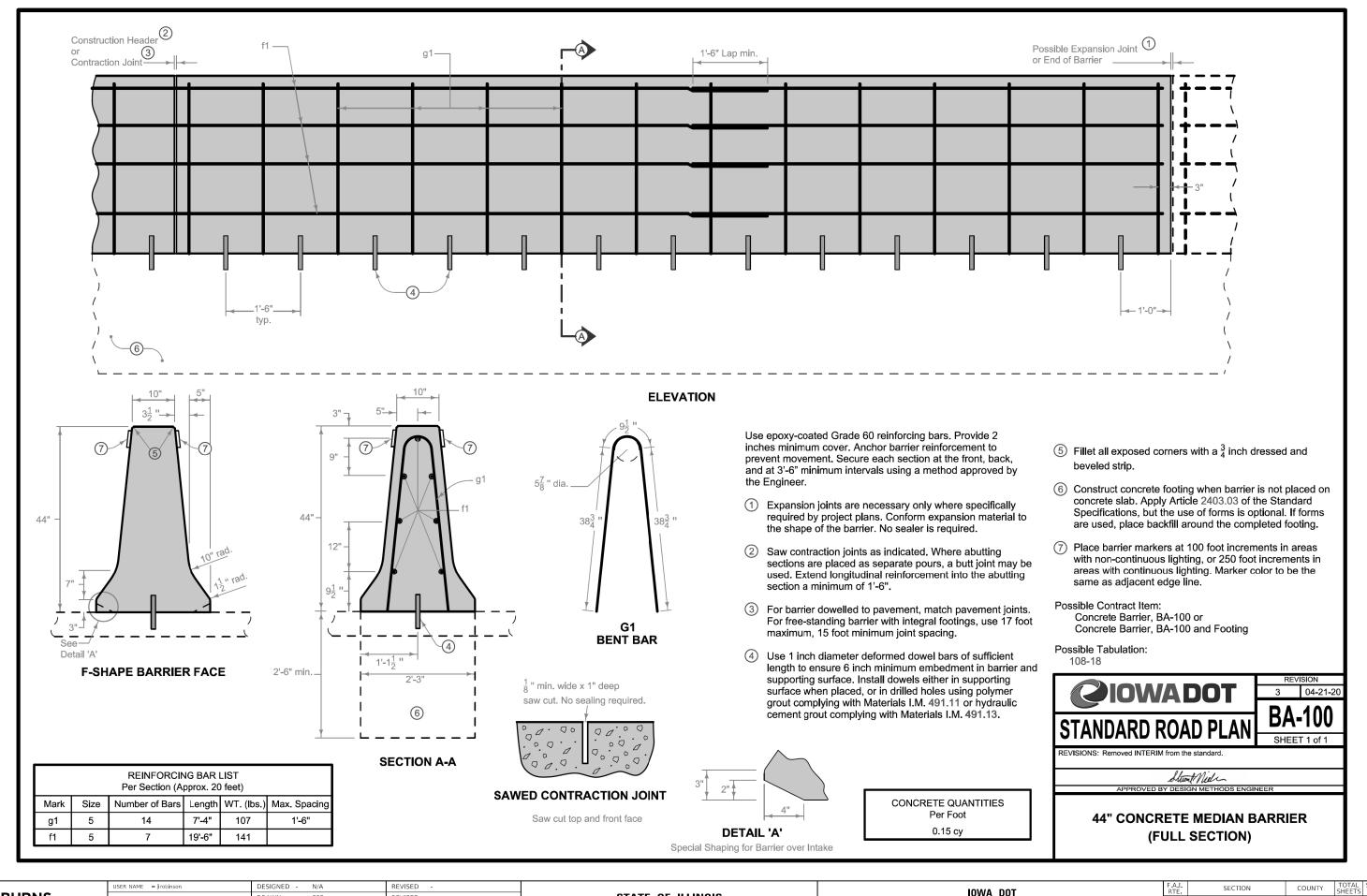
BAR	SIZE	NO.	LENGTH
d(E)	#5	28	4'-9"
e(E)	#5	7	19'-6"

\$BURNS M⊈DONNELL

USER NAME = jirobinson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = N.T.S. / in.	CHECKED -	REVISED -
PLOT DATE = 8/19/2020	DATE -	REVISED -

SCALE:

				F.A.I. RTE	F.A.I. SECTION		TOTAL SHEETS	SHEET NO.	
E	AKKIEK	IKANSIIIO	N DETAIL		280	81-1B, 81-1(F&E) & 81-1D	ROCK ISLAND	306	224
					CONTRACT NO. 64F78				
SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				



SBURNS M2DONNELL

| DRAWN - SPB REVISED - | PLOT SCALE = 10.0000 ' / in. | CHECKED - JIR REVISED - | PLOT DATE = 8/19/2020 | DATE - | REVISED - | |

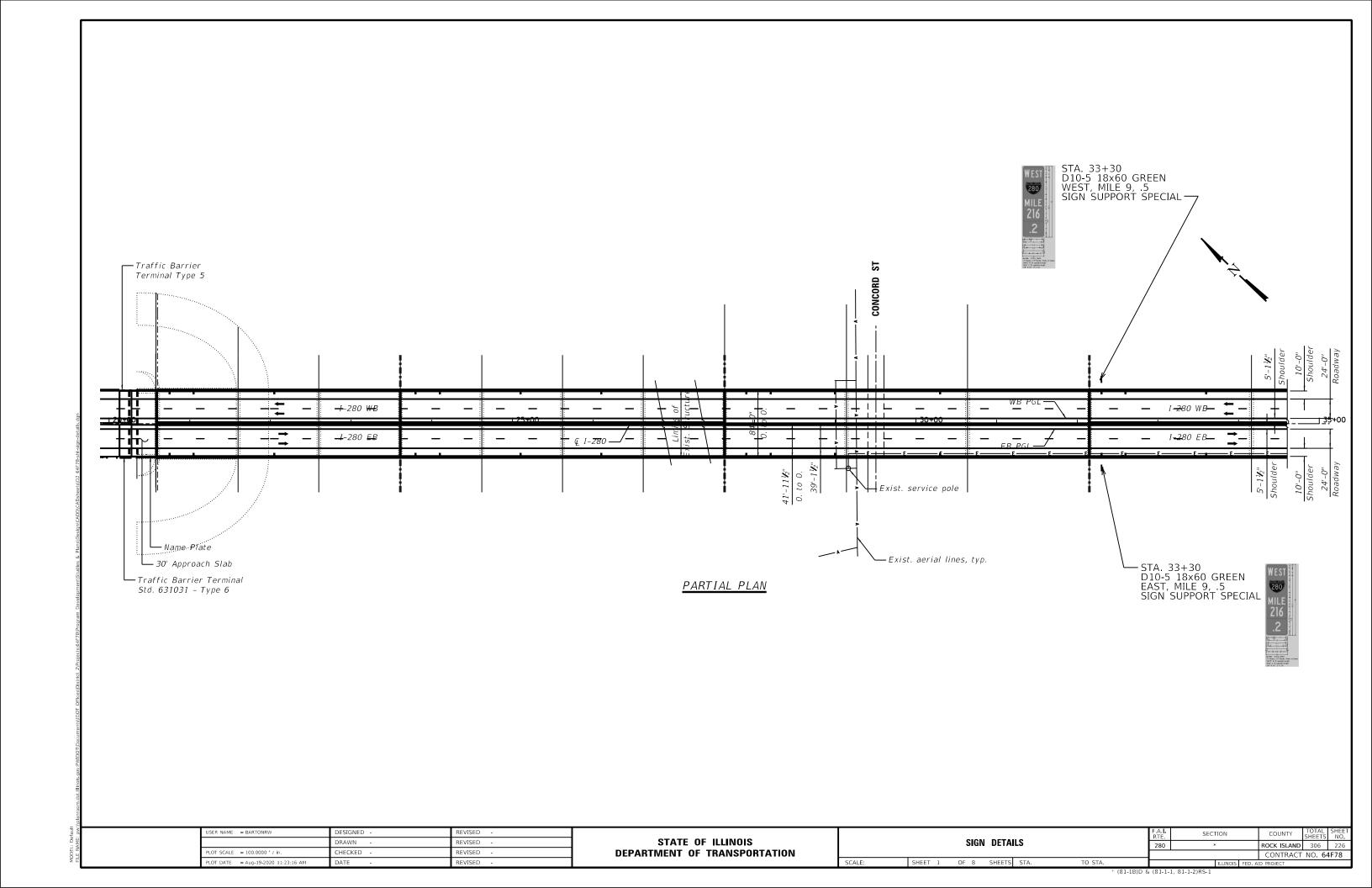
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

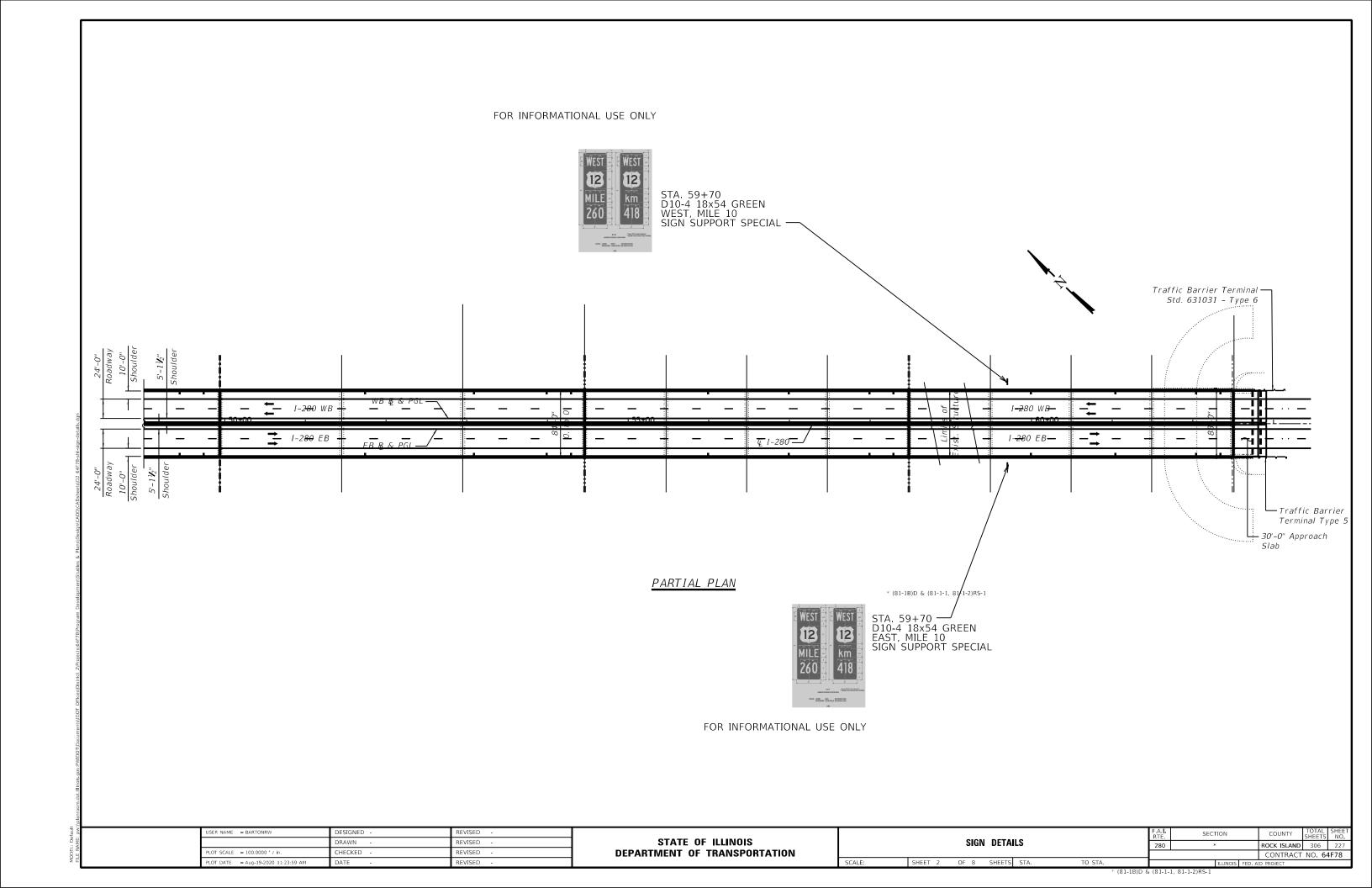
44" CONCRETE MEDIAN BARRIER DETAIL

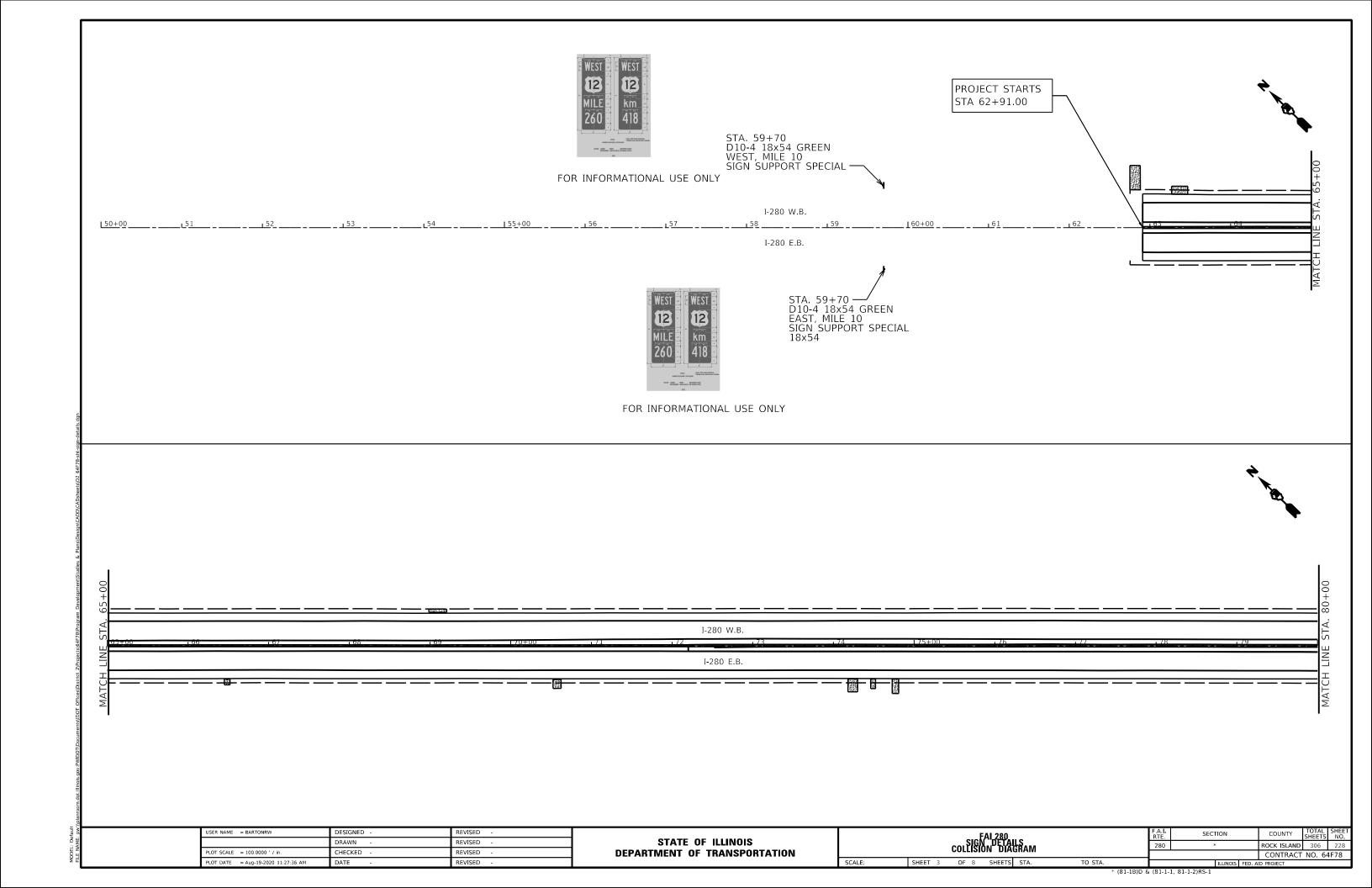
SHEET OF SHEETS STA.

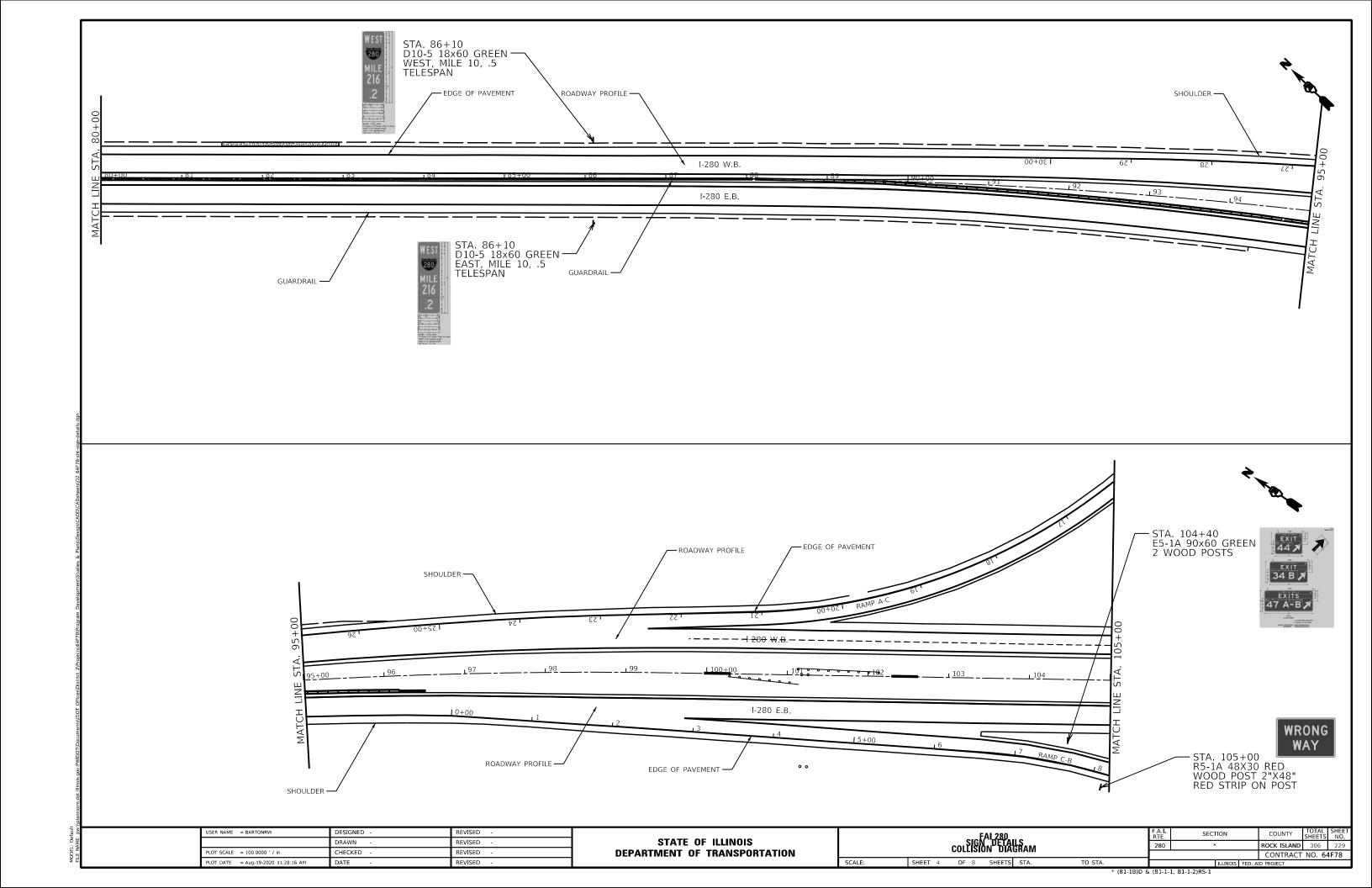
F.A.I. RTE. SECTION COUNTY TOTAL SHEETS NO. 280 81-1B, 81-1(F&E) & 81-1D ROCK ISLAND 306 225

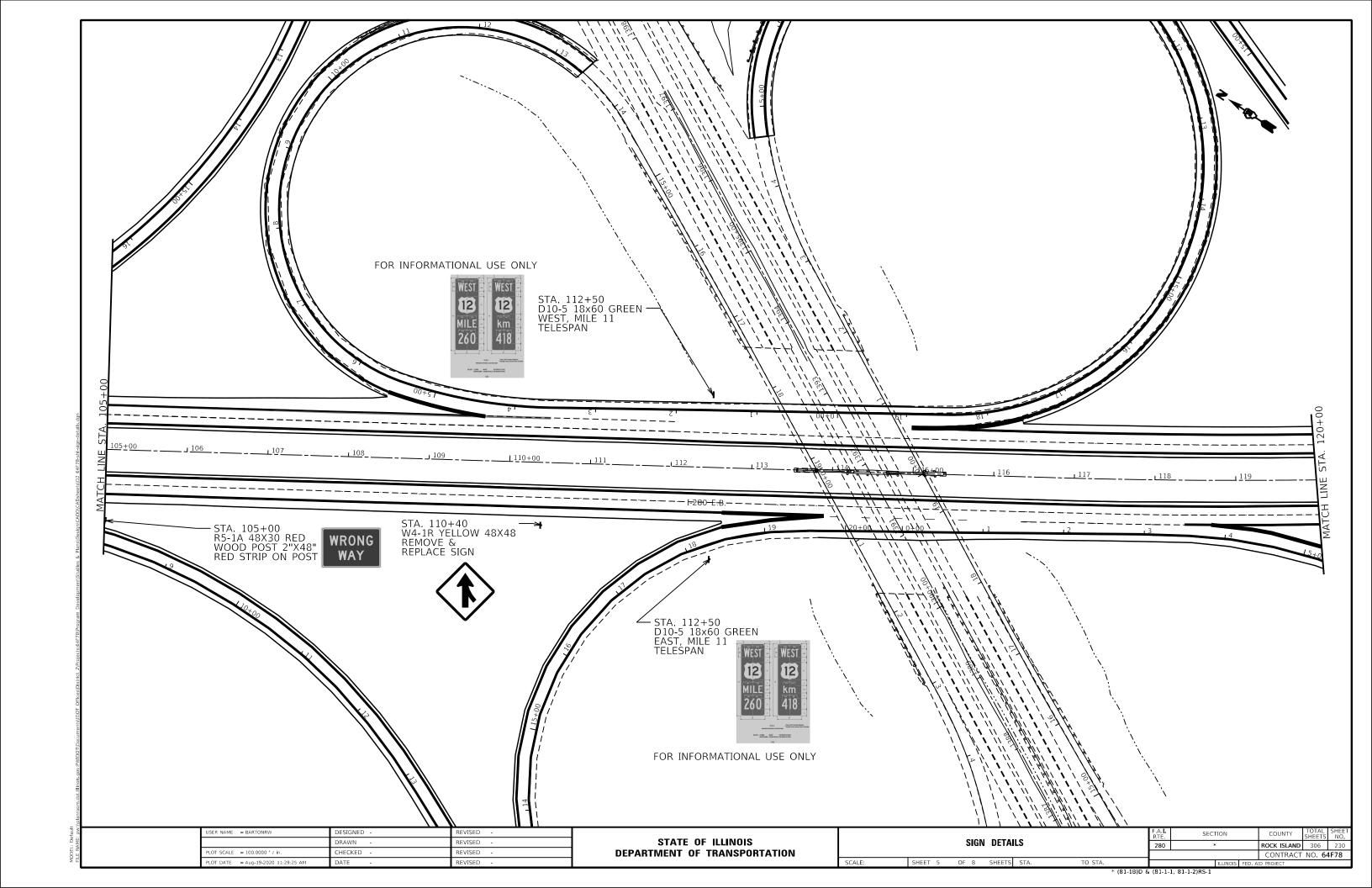
CONTRACT NO. 64-78

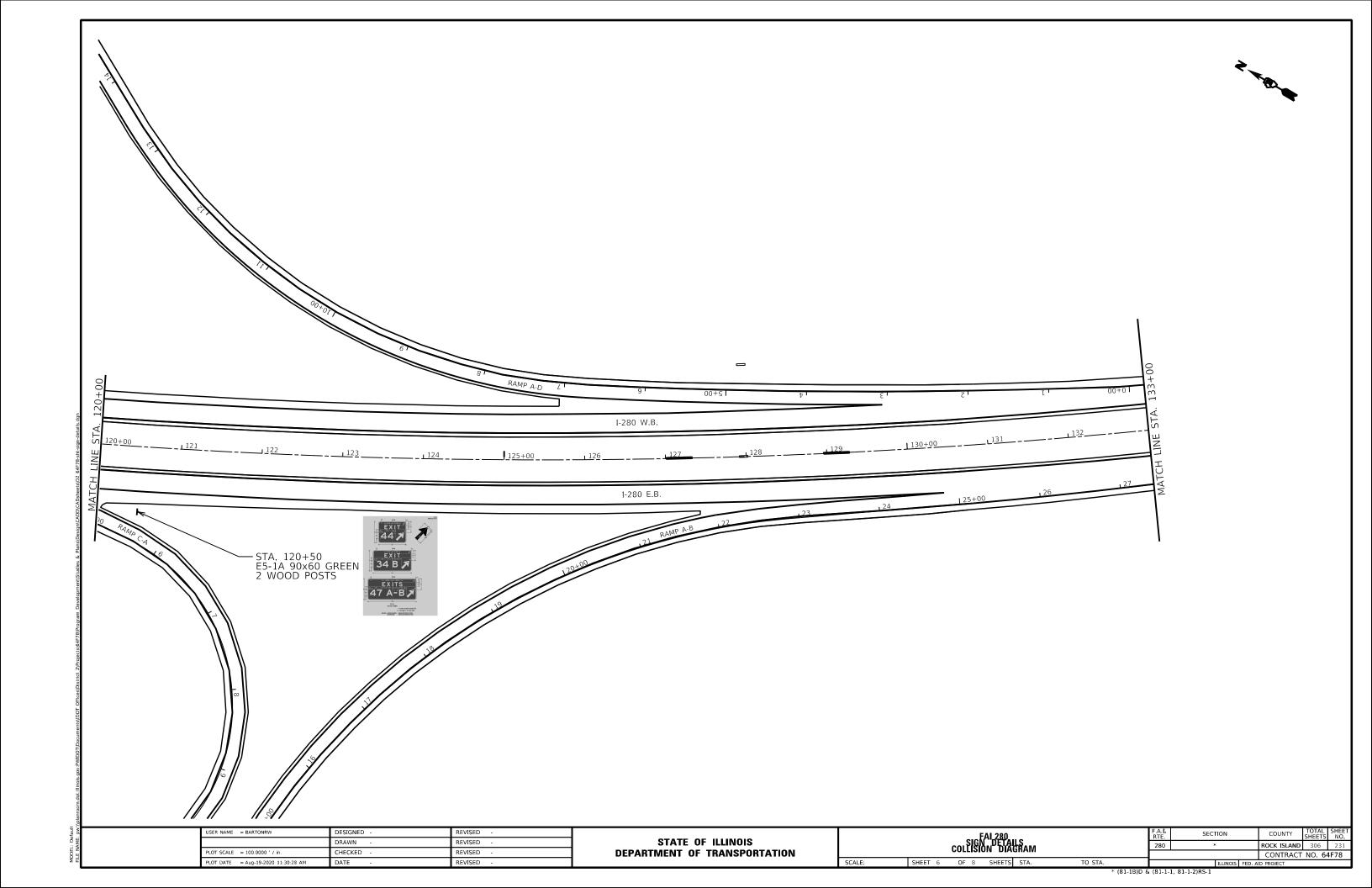


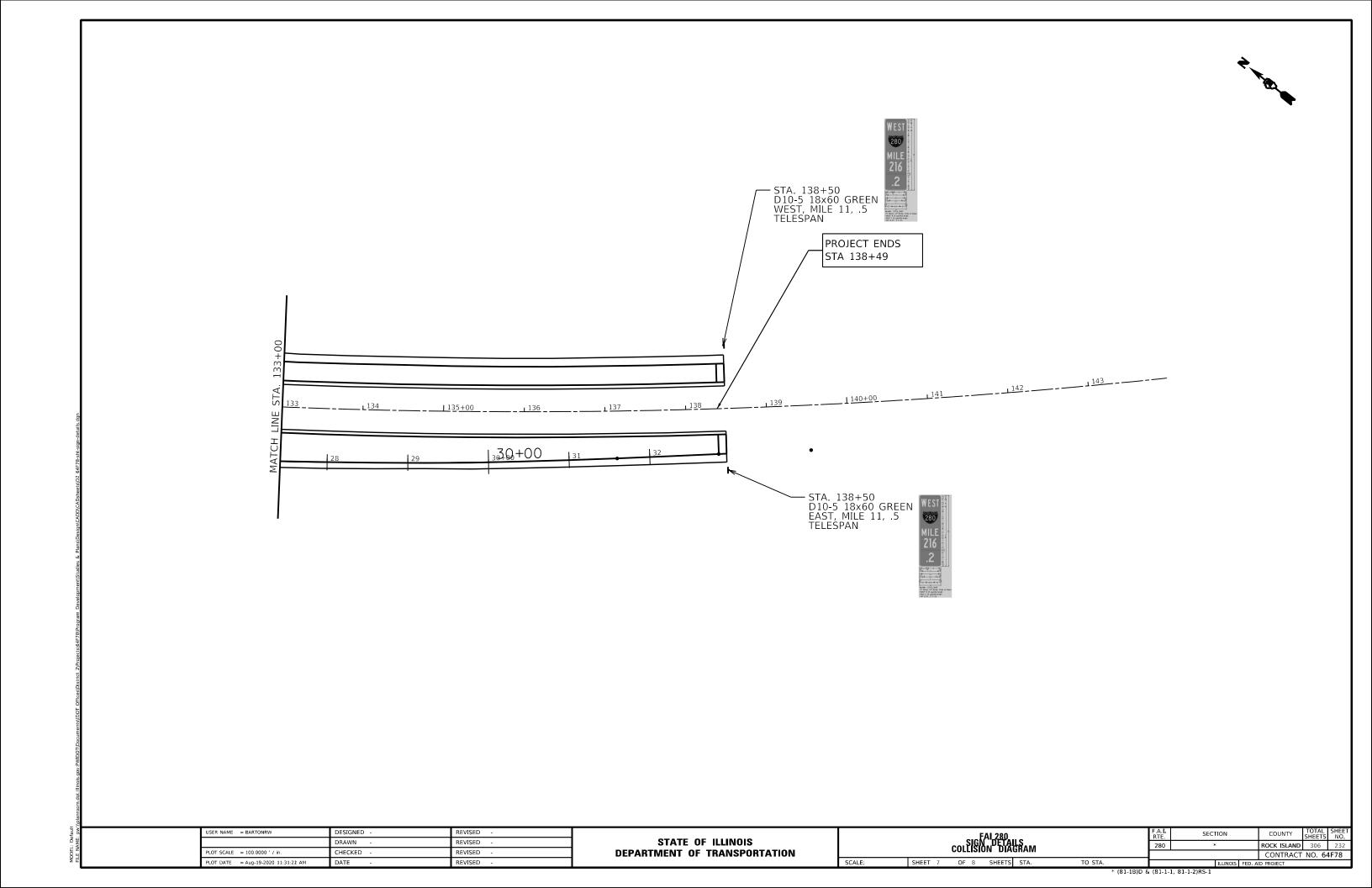


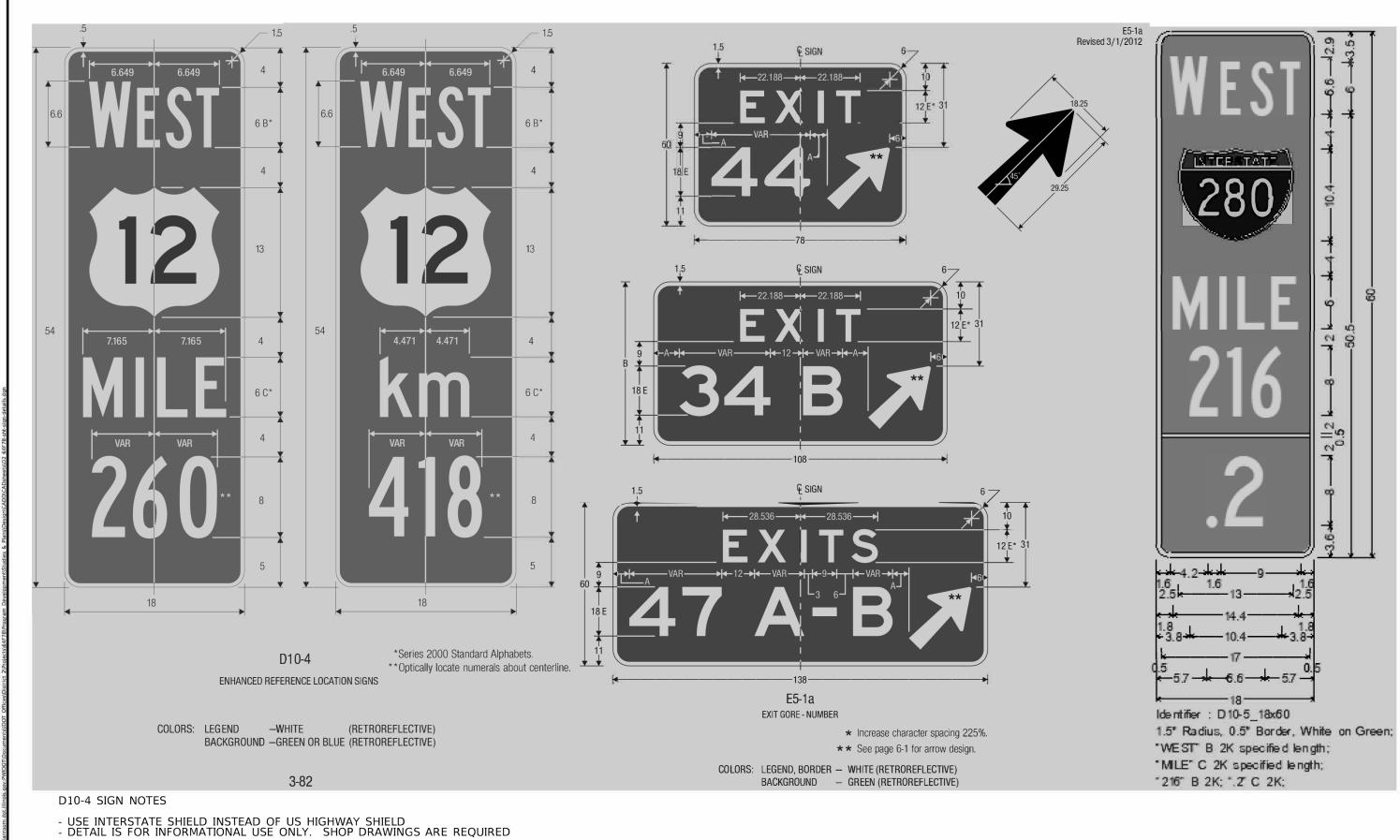












STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

SIGN DETAILS

SHEET 8 OF 8 SHEETS STA.

280

ROCK ISLAND 306 233

CONTRACT NO. 64F78

MODEL: Default

DRAWN

DATE

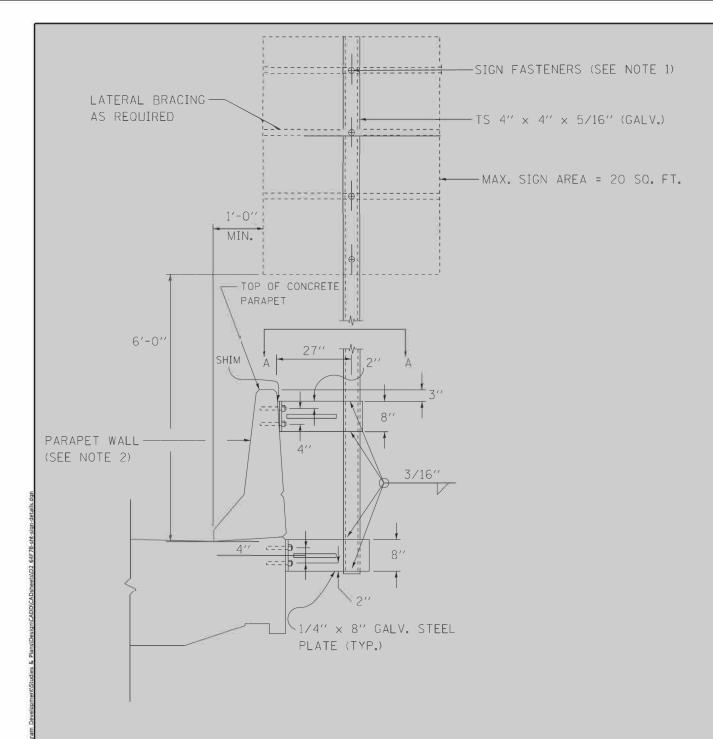
CHECKED :

PLOT SCALE = 100.0000 ' / in.

PLOT DATE = Aug-12-2020 02:58:45 PM

REVISED

REVISED



SIGN SUPPORT SPECIAL

NOTE: SIGN SUPPORTS MOUNTED TO PARAPETS WITH RAILINGS SHALL BE CENTERED BEHIND A RAILING POST AND ANCHOR RODS SHALL BE SPACED TO MISS REINFORCEMENT BARS. SIGN SUPPORTS MOUNTED TO PARAPETS WITHOUT RAILINGS SHALL BE LOCATED TO ENSURE THAT THE ANCHOR RODS MISS PARAPET JOINTS BY 12" MIN. AND REINFORCEMENT BARS.

1/2" DIA. × 6" GALV. STEEL
ANCHOR ROD (TYP.)
(SEE NOTE 8)

3'-6"

4" X 2" × 2'-0" GALV. STEEL
PLATE CENTERED VERT. &
HORIZ. ACROSS 1/4" × 8"
PLATE

SECTION A-A

NOTES

- 1/8" FABRIC BEARING PAD TO BE PLACED BETWEEN THE GALV. STEEL PLATE AND THE PARAPET.
- 2. SHIM AS REQUIRED TO PLUMB TO ACCOUNT FOR THE SLOPE ON THE BACK OF PARAPET.
- 3. THE CONTRACTOR SHALL FIELD MEASURE THE PARAPET BEFORES FABRICATING SIGN SUPPORT AT EACH LOCATION.
- 4. ALL WELDS TO BE CONTINUOUS UNLESS OTHERWISE SHOWN. ALL WELDING TO BE DONE IN ACCORDANCE WITH CURRENT AASHTO/AWS D1.5 BRIDGE WELDING CODES AND THE STANDARD SPECIFICATIONS.
- 5. ALL STRUCTURAL STEEL PLATES SHALL CONFORM TO AASHTO M270 GR. 36. ALL STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500.GR.B.
- 6. THREADED ANCHOR RODS SHALL CONFORM TO ASTM F1554, GR. 36 WITH ONE PLATE WASHER AND LOCKNUT AND BE HOT DIP GALVANIZED PER AASHTO M232. THEY SHALL BE EITHER CAST INTO THE CONCRETE OR EPOXY GROUTED IN ACCORDANCE WITH SECTION 584 OF THE STANDARD SPECIFICATIONS.
- 7. ALL STEEL PLATES AND SHAPES SHALL BE HOT DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M111. PAINTING IS NOT PERMITTED.
- 8. SIGN FACING DIRECTION SHALL BE AS SHOWN ON SIGNING PLANS.
- 9. ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO PERFORM THE WORK AS SHOWN IN THIS DETAIL AND AS DIRECTED BY THE ENGINEER SHALL BE INCLUDED IN THE COST OF "SIGN SUPPORT SPECIAL."

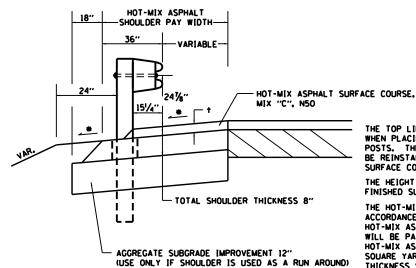
USER NAME = BARTONRW	DESIGNED -	REVISED +
	DRAWN	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED : T	REVISED +
PLOT DATE = Aug-12-2020 02:08:07 PM	DATE -	REVISED -

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

SCALE:

		O.O.N.				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SIGN SUPPORT SPECIAL						7.80	ROCK ISLAND	306	234
]		CONTRACT	NO. 64	1F78
-	SHEET	OF	SHEETS	STA	TO STA	_	TILINOIS SED AT	ID DROIECT		

DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARDRAIL



t = SEE TYPICAL SECTIONS

GENERAL NOTES

THE TOP LIFT SHALL NOT BE PLACED BEHIND THE GUARDRAIL POSTS. WHEN PLACING THE TOP LIFT THE RAIL MUST BE REMOVED FROM THE POSTS. THE POST SHALL NOT BE REMOVED. THE RAIL ELEMENT SHALL REINSTALLED WITHIN 72 HOURS OF THE COMPLETION OF THE SURFACE COURSE.

THE HEIGHT OF THE GUARDRAIL SHALL BE SET 24 1/8" FROM THE FINISHED SURFACE.

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C. N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIXTURE "C", N50 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED. THE REMOVAL & REINSTALLATION OF THE GUARDRAIL WILL BE INCLUDED IN THE COST OF THE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C. N50.

SUBGRADE REPLACEMENT

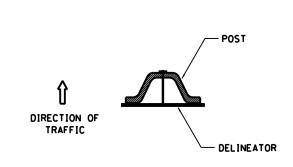
* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATED SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

REVISED - 1-05-16 REVISED - 6-27-14 REVISED - 8-27-13 REVISED - 3-13-13

DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARDRAIL

23.4

DELINEATOR AND POST ORIENTATION



SECTION D-D

-HOLES 1" CT ф. -Ф

DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHECD AS SHOWN ABOVE.

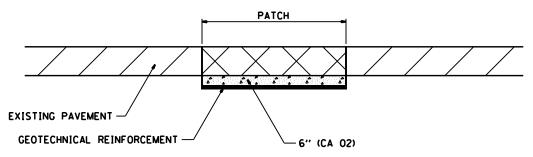
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-03-11

DELINEATOR AND POST ORIENTATION

37.4

SUBGRADE REPLACEMENT



THE CA 02 SHALL BE COMPACTED IN A MANNER APPROVED BY THE ENGINEER. IF THE MOISTURE CONTENT OF THE MATERIAL IS SUCH THAT COMPACTION SATISFACTORY TO THE ENGINEER CANNOT BE OBTAINED, SUFFICIENT WATER SHALL BE ADDED SO THAT SATISFACTORY COMPACTION

THE CA 02 SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CU YD FOR AGGREGATE SUBGRADE IMPROVEMENT WHICH

OTHERWISE NOTED.

REVISED - 3-13-13

97.4

REVISED REVISED **REGION 2 / DISTRICT 2 STANDARD** 280 (81-1B)D&(81-1-1, 81-1-2)RS-1 ROCK ISLAND 306 235 REVISED CONTRACT NO. 64F78 REVISED SCALE: 100.0000 / InSHEET 1 OF 13 SHEETS STA.

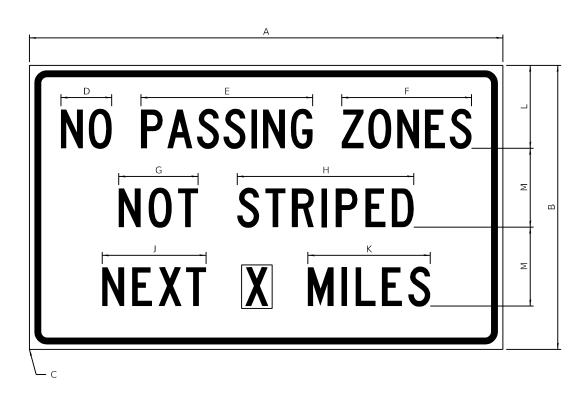
SHALL ALSO INCLUDE ALL EARTH EXCAVATION.

THE GEOTECHNICAL REINFORCEMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SO YD FOR GEOTECHNICAL REINFORCEMENT.

ALL DIMENSIONS ARE IN INCHES UNLESS

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD G20-I100



LEGEND AND BORDER BACKGROUND

BLACK ORANGE

NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE					[DIMEN	ISIONS	5				
SIGN SIZE	А	В	С	D	Е	F	G	Η	J	K	L	М
60 x 36	60.00	36.00	2.25	6.4	21.80	16.40	10.00	22.40	13.20	15.50	10.50	10.00

SIGN SIZE	SER	IES BY	LINE	MARGIN	BORDER	
SIGN SIZE	1	2	3	MARGIN		
60 x 36	5C	5C	5C	0.625	0.875	

Sign not to scale

GENERAL NOTES

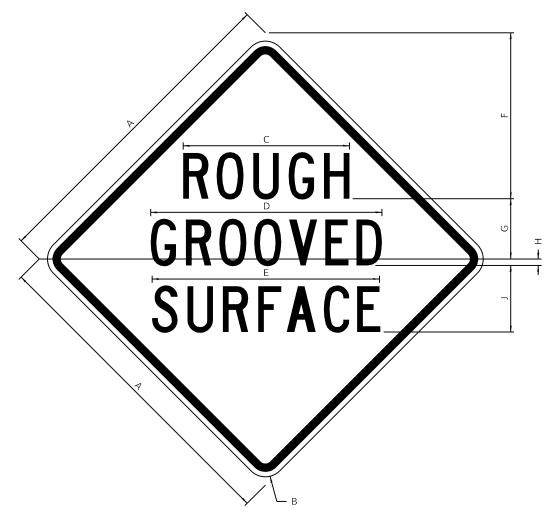
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

ILLINOIS STANDARD W8-I107



LEGEND AND BORDER BACKGROUND

BLACK

NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS										
	А	В	С	D	Е	F	G	Н	J		
48 x 48	48.00	3.00	25.00	34.80	34.20	24.94	9.00	1.00	10.00		

SIGN SIZE	SER	IES BY	LINE	MARGIN	BORDER	
SIGN SIZE	1	2	3	MARGIN		
48 x 48	7C	7C	7C	1.250	0.750	

Sign not to scale

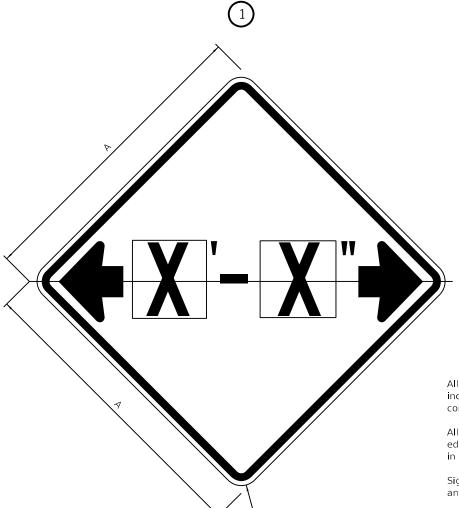
	USER NAME = BARTONRW	DESIGNED -	REVISED - 3-02-16	
FILE NAME: pw:\\planroom.dot.illinois.gov:PWIDOT\	Documents\IDOT Offices\District 2\Projects\64F78\Progra	m DRAM/n ment\\$tudies & Plans\Design\CADD\CADs	ne RuSVIS_EED F78-sht-details.dgn	STATE OF ILLIN
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRAN
	PLOT DATE = Aug-19-2020 11:49:31 AM	DATE -	REVISED -	

LINOIS NSPORTATION

		F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
REGION 2 / DISTRICT 2 STANDARD			280	(81-1B)D&(81-1-1, 81-1-2)RS-1	ROCK ISLAND	306	236			
			CONTRACT NO. 64F78				1F78			
	SHEET 2	OF 13	SHEETS	STA.	TO STA.	LILLINGIS FED AID PROJECT				

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD W12-I102



GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

LEGEND AND BORDER BACKGROUND

BLACK FL ORANGE

NON-REFLECTORIZED REFLECTORIZED

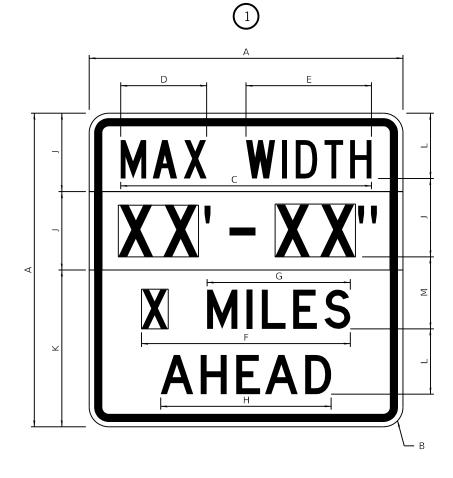
SIGN SIZE	DIMEN	ISIONS
SIGN SIZE	Α	В
48 × 48	48.00	3.00

	Illinois Standard signs W12-I102 and W12-I103 shall bused as described in the special provisions.
\mathbf{U}	used as described in the special provisions.

SIGN SIZE	SERIES BY LINE	MARGIN	BORDER	
SIGN SIZE	1	MARGIN	DORDER	
48 x 48	12C	0.750	1.250	

Sign not to scale

ILLINOIS STANDARD W12-I103



LEGEND AND BORDER BACKGROUND BACKGROUND (WIDTH) BLACK WHITE FL ORANGE NON-REFLECTORIZED REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
SIGN SIZE	A B C D E F G H J K L					M						
48 x 48	48.00	3.00	38.40	13.20	19.20	32.00	22.00	26.20	12.00	24.00	10.00	11.00

SIGN SIZE		SERIES	BY LINE		MARGIN	PODDED	
SIGN SIZE	1	2	3	4	MARGIN	BORDER	
48 × 48	6C	8D	6D	6D	0.750	1.250	

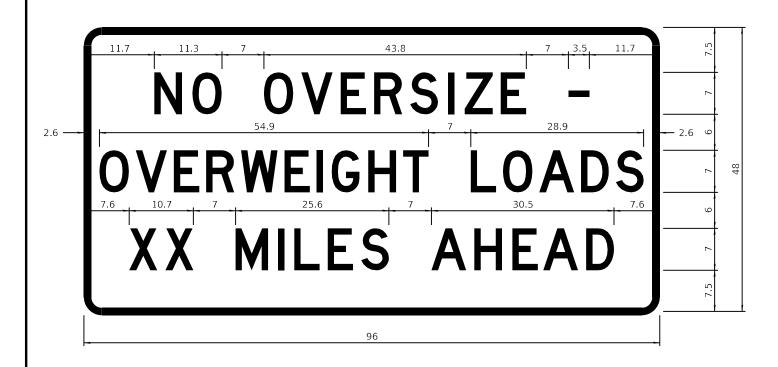
Sign not to scale

XX'-XX" WIDTH AND X MILES ARE VARIABLE TOP AND BOTTOM OF BACKGROUND WHITE

	USER NAME = BARTONRW	DESIGNED -	REVISED - 3-02-16					F.A.I. SECTION	COUNTY TOTAL SHEET
FILE NAME: pw:\\planroom.dot.illinois.gov:PWIC	OT\Documents\IDOT Offices\District 2\Projects\64F78\Prog	ram DR:A&M) ment\\$tudies & Plans\Design\CADD\CAE	sne R/EVଯାନ୍ତ୍ର_6 0F78-sht-details.dgn	STATE OF ILLINOIS		REGION 2 / DISTRICT 2 STANDARD		280 (81-1B)D&(81-1-1, 81-1-)	2)BS-1 ROCK ISLAND 306 237
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT NO. 64F78
	PLOT DATE = Aug-19-2020 11:49:46 AM	DATE -	REVISED -		SCALE:	SHEET 3 OF 13 SHEETS STA.	TO STA.	ILLINOIS	FED. AID PROJECT

WORK ZONE SIGN DETAILS

ROAD CLOSED TO OVERSIZED LOADS

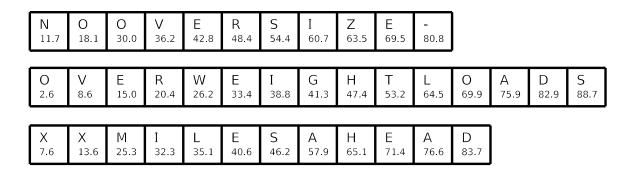


COLOR

LEGEND AND BORDER BACKGROUND

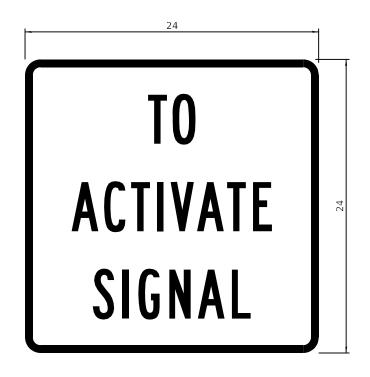
BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border; [NO OVERSIZE -] D; [OVERWEIGHT LOADS] D 85% spacing; [XX MILES AHEAD] D; Table of letter and object lefts.



Sign not to scale

STOP LINE SIGN FOR TEMPORARY SIGNALS



COLOR

LEGEND AND BORDER BACKGROUND BLACK WHITE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	SERIES BY LINE						
SIGN SIZE	1	2	3				
24 × 24	4C	4C	4C				

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

	USER NAME = BARTONRW	DESIGNED -	REVISED - 3-02-16
FILE NAME: pw:\\planroom.dot.illinois.gov:PWIDOT\	Documents\IDOT Offices\District 2\Projects\64F78\Progra	m DRAMM ment\\$tudies & Plans\Design\CADD\CADs	ne RuEV/IS_E EDF78-sht-details.dgn
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = Aug-19-2020 11:50:01 AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

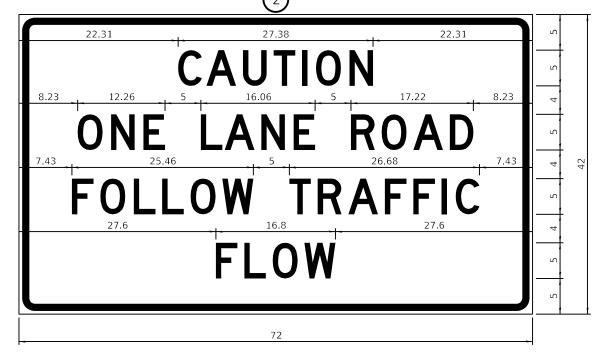
	F.A.I. RTE	SECTION
REGION 2 / DISTRICT 2 STANDARD	280	(81-1B)D&(81-1-1, 81-

-1-2)RS-1 ROCK ISLAND 306 238

CONTRACT NO. 64F78

ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS

WORK ZONE SIGN DETAILS



COLOR LEGEND AND BORDER BACKGROUND

BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

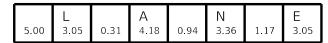
2.25" Radius, 0.88" Border, 0.50" IndenT; [CAUTION] D; [ONE LANE ROAD] D; [FOLLOW TRAFFIC] D; [FLOW] D

This sign shall be installed at entrances located between the temporary signals as shown in the staging plans.

Table Of Widths And Spaces

22.31	C 3.36	0.62	A 4.18	0.94	U 3.36	0.94	T 3.04	0.94	I 0.78	1.17	O 3.52	1.17	N 3.36	22.31
-------	-----------	------	-----------	------	-----------	------	-----------	------	-----------	------	-----------	------	-----------	-------

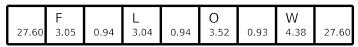






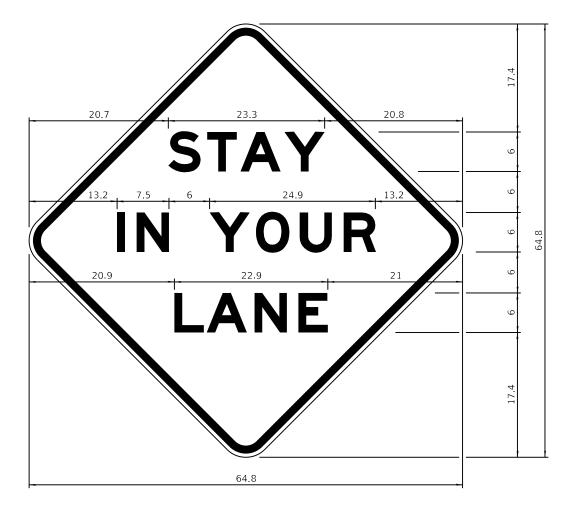


	Т		R		Α		F		F		I		С	
5.00	3.05	0.94	3.36	0.94	4.18	0.93	3.05	0.94	3.04	0.94	0.78	1.18	3.35	7.43



Sign not to scale

STAY IN YOUR LANE



COLOR

LEGEND AND BORDER BACKGROUND

BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

48.0" across sides 3.8" Radius, 1.0" Border, 0.6" Indent; "STAY" E Mod: "IN YOUR" E Mod: "LANE" E Mod:

Table of Letter and Object Lefts

S		Т	Α	Υ
20.	7	26.8	31.6	38.0

_						
I		N	Υ	0	U	R
	13.2	15.9	26.7	33.9	40.5	46.8

L	Α	N	Е
20.9	25.8	33.1	39.4

Sign not to scale

- 1													
ı		USER NAME = BARTONRW	DESIGNED -	REVISED - 3-02-16		REGION 2 / DISTRICT 2 STANDARD				F.A.I.	SECTION	COUNTY T	TOTAL SHEET
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GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book"

Signs shall meet the applicable portions of Sections 701

All dimensions are in inches unless otherwise noted

in effect on the date of invitation for bids.

and 720 of the Standard Specifications.

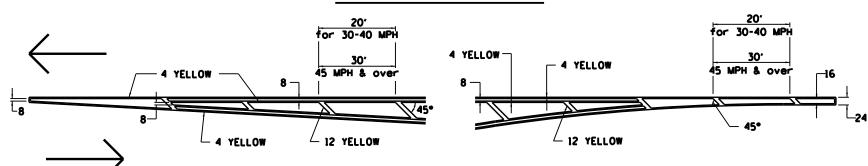
TRAFFIC CONTROL TYPICAL WEAVE WEAVE LENGTH 200' 500' Temporary Pavement Marking required if Typical Weave is used for 14 days or **SYMBOLS** W1-4R(O)-48 DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT W1-4L(0)-48 GENERAL NOTES: USE ON LONG 4-LANE PROJECTS WHERE THE CONTRACTOR STANDARD WEAVE CONDITIONS FOR DIFFERENT SPEED LIMITS MAY CHANGE A PORTION OF THE WORK TO THE OPPOSITE LANE. POSTED SPEED LIMIT WEAVE LENGTH 65 MPH OR HIGHER 780 FT. USE WHERE THE PROJECT IS ADJACENT TO ANOTHER 55 MPH 660 FT. AND THE CONTRACTOR COULD BE WORKING ON 45 MPH 540 FT. DIFFERENT LANES. TEMPORARY PAVEMENT MARKING SHALL BE USED WHEN TYPICAL WEAVE IS USED FOR 14 DAYS OR TRAFFIC CONTROL TYPICAL WEAVE SHALL BE INCLUDED IN THE COST OF THE SPECIFIC TRAFFIC CONTROL STANDARDS ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. REVISED - 1-05-16 STATE OF ILLINOIS REGION 2 / DISTRICT 2 STANDARD uments\IDOT Offices\District 2\Projects\64F78\P nDIR:AAM/Mment\Studies & Plans\Design\CADD\C. eRUSVOS ISBDF 78-sht-deta6k-2dkml 4 280 (81-1B)D&(81-1-1.81-1-2)RS-1 ROCK ISLAND 306 240 8-27-13 **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 64F78 OF SHEETS STA.

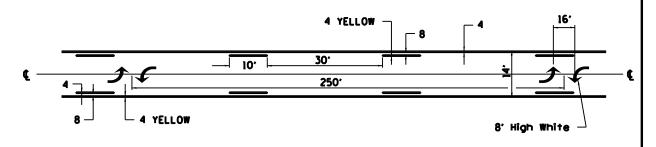
TYPICAL PAVEMENT MARKINGS

MEDIAN PAVEMENT MARKING

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN

AT LEFT TURN LANE





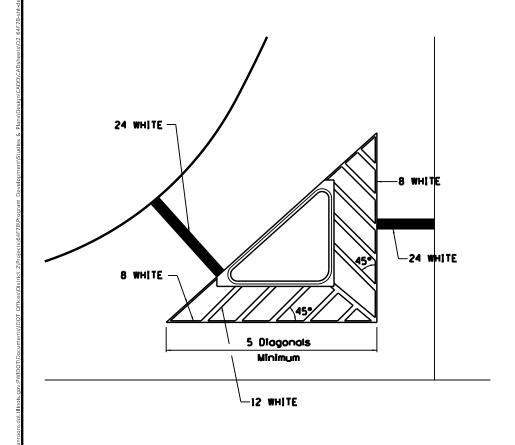
.. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

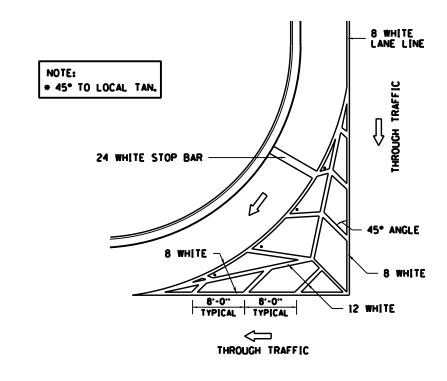
TYPICAL ISLAND OFFSET SHOULDER WIDTH

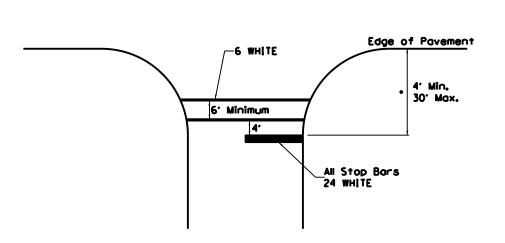
TYPICAL MARKING FOR PAINTED ISLANDS

STANDARD CROSSWALK MARKING

See Schedules for Locations





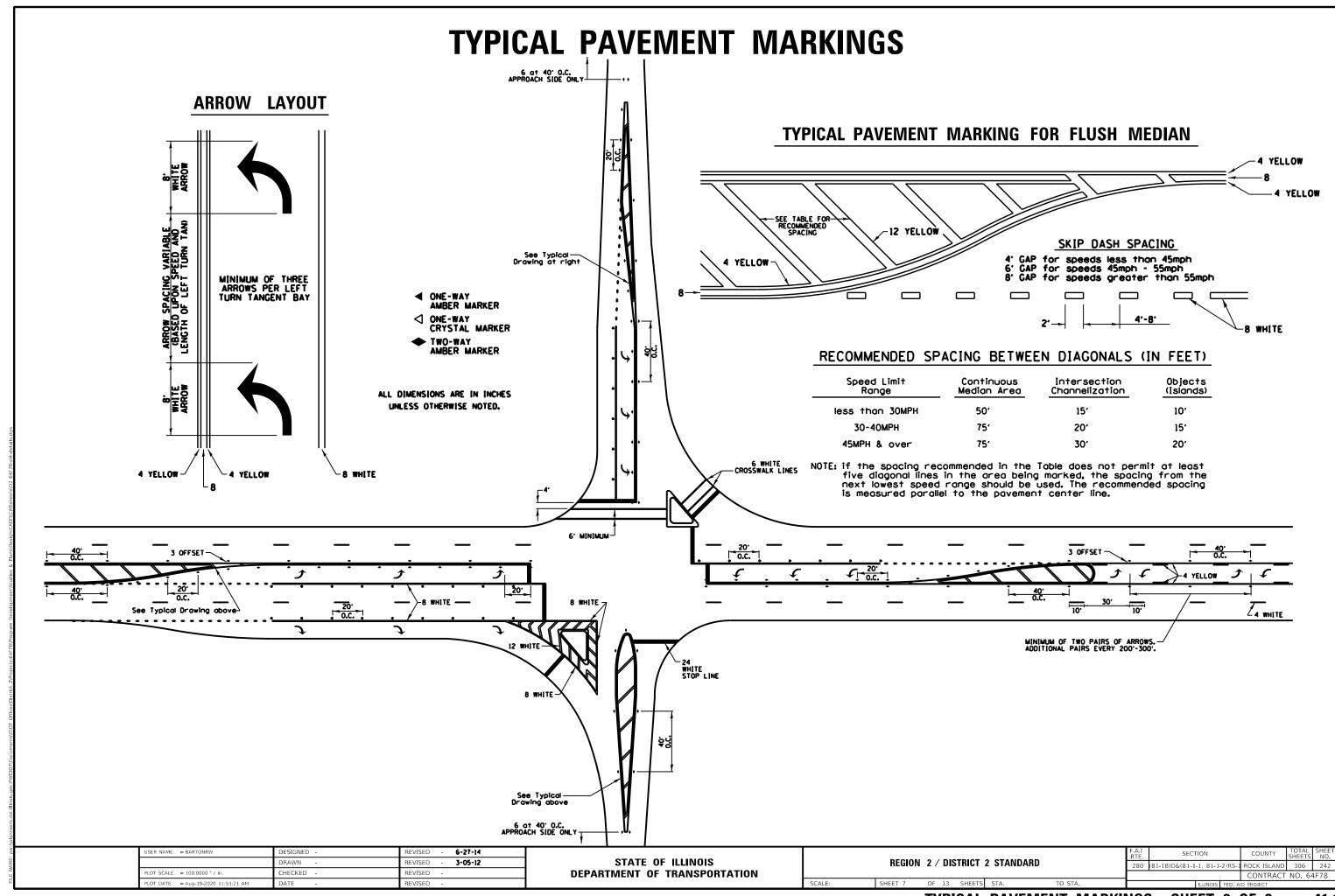


 Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

USER NAME = BARTONRW	DESIGNED -	REVISED - 6-27-14
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

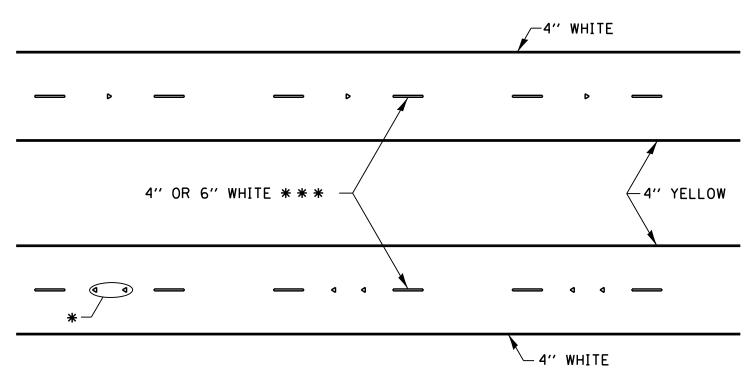
REGION 2 / DISTRICT 2 STANDARD



TYPICAL PAVEMENT MARKINGS

TYPICAL PARKING SPACING

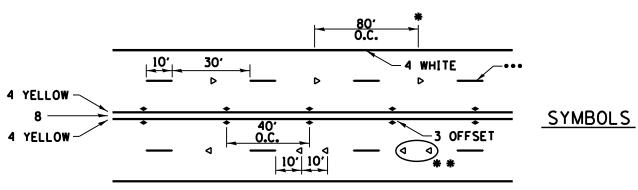
22[.]-25[.]



4 WHITE 8. Face of Curb 20' Min. No Parking Zone 22'-25' -4 WHITE **⊤**8·∏ Face of Curb 30° Min. -Approach to Signal No Parking Zone 20' Min.-Face of Curb 20' Min.-No Parking Zone

* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS. USE DOUBLE MARKERS _WHEN ADT > 20,000.

MULTI-LANE / DIVIDED



- REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.
- •• USE DOUBLE MARKERS WHEN ADT > 20,000
- ••• CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS DETAIL NOT HIGHWAY STANDARD 781001)

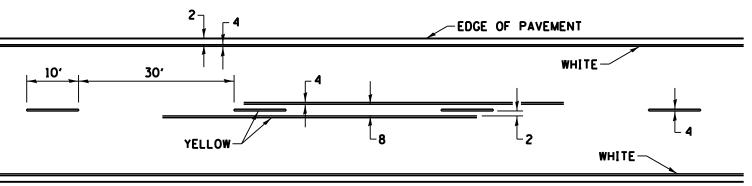
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STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

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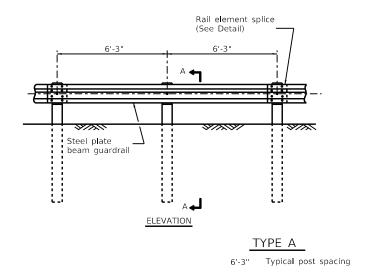
TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES

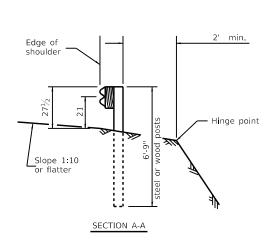


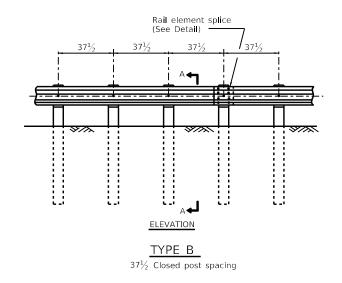
306 243

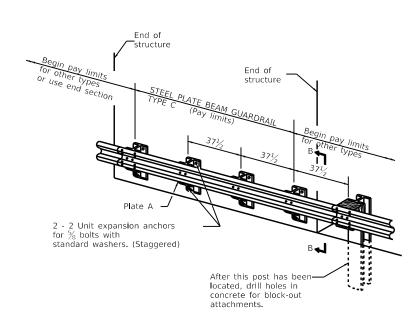
CONTRACT NO. 64F78

PAINTING DETAILS EXIT RAMP NOTE: GORE HATCHING PLACED ONLY EOP-4 YELLOW WHEN SCHEDULED IN THE PLANS -4 OR 6 WHITE 12 WHITE 30' CENTERS 4 WHITE7 /- EOP CENTERLINE SKIP DASH PAVEMENT MARKING WIDTH SHALL BE 4" WHEN THE POSTED SPEED LIMIT IS UNDER 40 MPH AND 6" WHEN THE POSTED SPEED LIMIT IS 40 MPH AND OVER. 10' SHOULDER ~4' SHOULDER 8' SHOULDER 4 YELLOW 4 YELLOW OPTIONAL METHOD FOR HIGH VOLUME OFF RAMPS ENTRANCE RAMP 4 OR 6 WHITE 4 WHITE -10" SHOULDER 10' 8' SHOULDER 4 YELLOW ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. 4 YELLOW 4 YELLOW **CLOVERLEAF** 10' SHOULDER 10' SHOULDER 10' SHOULDER 8 WHITE EOP 4 YELLOW 4 YELLOW EOP-200' (TYP.) (TAPER LENGTH AS DIRECTED BY THE ENGINEER) REVISED - 8-27-13 STATE OF ILLINOIS REGION 2 / DISTRICT 2 STANDARD DRAWN REVISED -10-18-11 280 (81-1B)D&(81-1-1, 81-1-2)RS-1 ROCK ISLAND 306 244 CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 64F78 SHEET 9 OF 13 SHEETS STA.

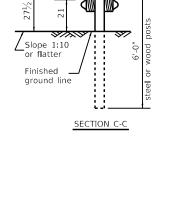


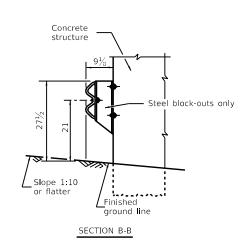


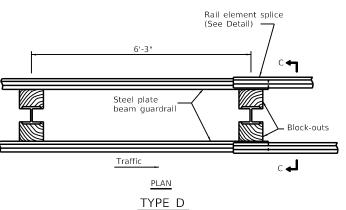












TYPE D

Double steel plate beam guardrail 6'-3" typical post spacing

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches unless otherwise shown.

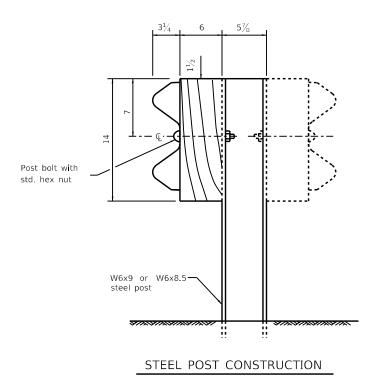
The existing steel posts may be drilled to match the bolt pattern shown herein for the wood block-out, or a new steel post shall be provided.

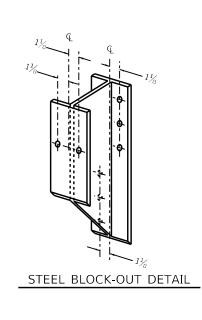
This detail is applicable to the guardrail system used prior to January 1, 2007. For details on the Midwest Guardrail System, see Standard 630001.

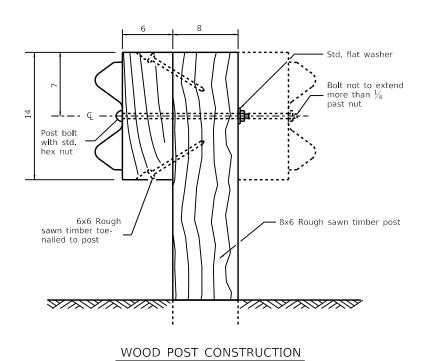
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	F.A.I. RTE.	SECTION
REGION 2 / DISTRICT 2 STANDARD	280	(81-1B)D&(81-1-1, 81-1
Table 1		







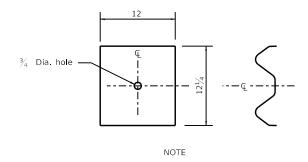
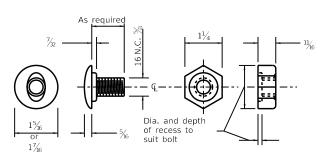


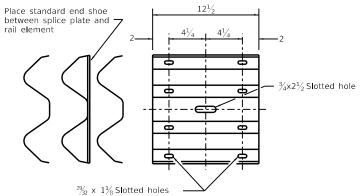
Plate A shall be placed between rail element and block-out at nonsplice mounting points only when steel block-outs are used.

PLATE A

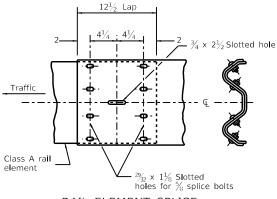


POST OR SPLICE BOLT & NUT

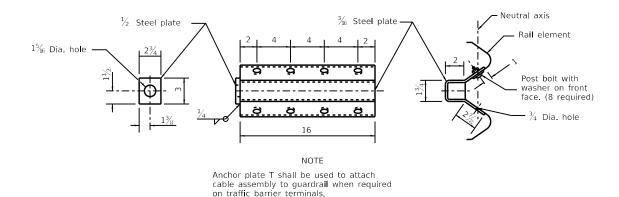
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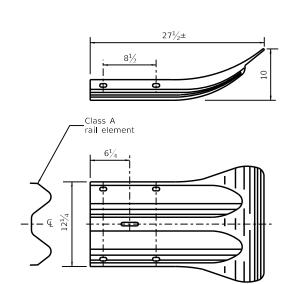
SPLICE PLATE



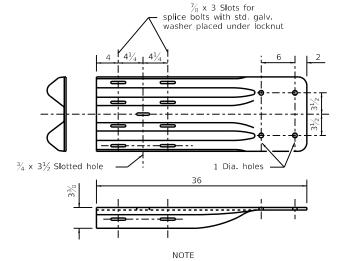
RAIL ELEMENT SPLICE



ANCHOR PLATE T DETAILS



END SECTION

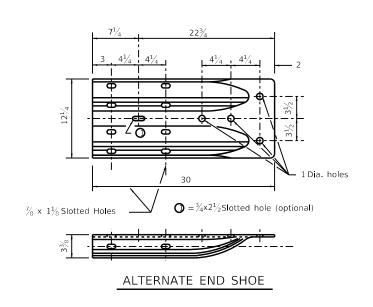


When end shoe is attached to a bridge parapet which has an expansion joint, the bolts shall be provided with a locknut or double nut and shall be tightened only to a point that will allow guardrail movement.

The standard end shoe shall be attached to the concrete with pre-drilled or self-drilling anchor bolts. The anchor cone shall be set flush with the surface of the concrete.

Externally threaded studs protruding from the surface of the concrete will not be permitted.

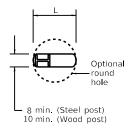
END SHOE



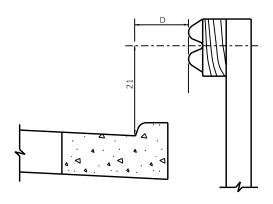
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

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REGION 2 / DISTRICT 2 STANDARD								(81-1-1, 81-1-2) RS-1	ROCK ISLAND	306	247
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PLAN

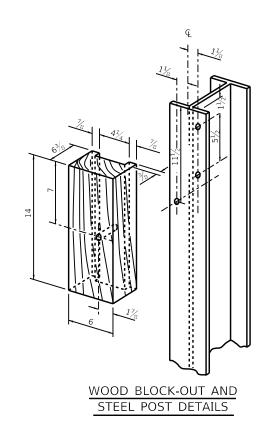


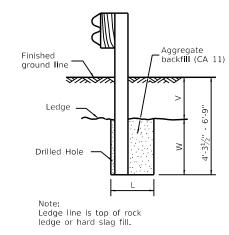
Note

If it is necessary for D to be more than12 and less than 10-0" type M-2 curb and gutter (Std. 606001) shall be used in front of and in advance of the guardrail.

GUARDRAIL PLACED BEHIND CURB

(D = O desirable to 12 maximum)

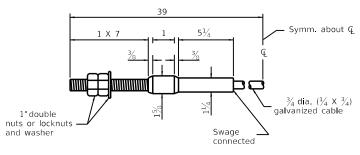




ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED

V	W	L			
V	VV	Steel Post	Wood Post		
0 - 18	24	21	23		
>18 - 41.5	12	8	10		
>41.5 - 53.5	12 - 0	8	10		



CABLE ASSEMBLY

(40,000 lbs. min. breaking strength)
Tighten to taut tension.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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	REGION 2 / DISTRICT 2 STANDARD						280	(81-1-1, 81-1-2) RS-1	ROCK ISLAND	306	248	
										CONTRACT NO. 64F78		
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