04-23-2021 LETTING ITEM 085

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STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

D-99-037 - 21

TION COUNTY SHEETS NO.

111-3 ALEXANDER 34 1

ILLINOIS CONTRACT NO. 78860

D-33-037-2

FOR INDEX OF SHEETS, SEE SHEET NO. 3
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4&5

# PROPOSED HIGHWAY PLANS

FAI ROUTE 57 (I-57)
SECTION (2-1)I-3
PROJECT NHPP-SB2U(439)
SN 002-0001 NB OVER GOLDEN LILLY RD
MAJOR BRIDGE PREVENTATIVE MAINTENANCE
ALEXANDER COUNTY

C-99-051-21

## **TRAFFIC DATA**

I-57NB 2021 ADT = 6060 WITH 55.8% TRUCKS GOLDEN LILLY ROAD 2021 ADT = 340 WITH 1.5% TRUCKS

**TOWNSHIPS** 

ALEXANDER COUNTY UNIT ROAD DISTRICT

SN 002-0001 NB

POSTED SPEED: 70 MPH

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-809-892-0123
OR 811

PROJECT ENGINEER MICHAEL STEPHENSON PROJECT DESIGNER NATHANIEL MORRIS

TO MARION
TO MOUNDS

REDMAN RO

34

REDMAN RO

34

REDMAN RO

35

REDMAN RO

36

REDMAN RO

37

REDMAN RO

38

REDMAN RO

39

REGIONAL ARPORT

4

TO MOUNDS

30

Golden Lilly RO

30

ARPORT

4

TO MOUNDS

4

T

STRUCTURE LENGTH = 1707.9 FT.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Jan 20 20 21

Kuth Roberts

REGION FIVE ENGINEER

March 19, 2021

ENGINEER OF DESIGN AND ENVIRONMENT

March 19, 2021

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

**CONTRACT\_NO. 78860** 

REV. - MS

Prepared By: Charles Stein

DISTRICT STUDIES & PLANS ENGINEER

Examined By:

DISTRICT LAND ACQUISITION ENGINEER

Examined By:

DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By:

DISTRICT OPERATIONS ENGINEER

Examined By:

DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By:

Examined By:-

DESIGNED REVISED STATE OF ILLINOIS SIGNATURE SHEET ALEXANDER 34 2 PLOT SCALE = 100.0000 1 / m. CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 78860 PLOT DATE = 1/20/2021 OF \_\_\_ SHEETS STA.

## **GENERAL NOTES**

COMMITMENTS: NONE

## **HIGHWAY STANDARDS**

000001-08 STANDARD SYMBOLS ABBREVIATIONS & PATTERNS 701001-02 OFF-ROAD OPERATIONS 2L2W 15FT MIN FROM EOP

701006-05 OFF-ROAD OPERATIONS 2L2W 15FT TO EOP

701101-05 OFF-ROAD OPERATIONS MULTILANE LESS THAN 15FT TO EOP

701106-02 OFF-ROAD OPERATIONS MULTILANE MORE THAN 15FT AWAY

701400-10 APPROACH TO LANE CLOSURE FREEWAY EXPRESSWAY

701406-12 LANE CLOSURE FREEWAY EXPRESSWAY DAY OPERATIONS ONLY 001006 DECIMAL OF AN INCH AND OF A FOOT

701901-08 TRAFFIC CONTROL DEVICES

## **INDEX OF SHEETS**

- COVER SHEET
- 2. SIGNATURE SHEET
- 3. GENERAL NOTES, HIGHWAY STANDARDS, INDEX OF SHEETS
- 4.-5. SUMMARY OF QUANTITIES
- 6-34 BRIDGE REPAIR SHEETS

USER NAME = porterwc	DESIGNED -	REVISED	Ī
	DRAWN	REVISED	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED	
PLOT DÂTE = 1/26/2021	DATE	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, HIGHWAY STANDARDS, INDEX		ADDO INDEV	F.A.I. SECTION		COUNTY	TOTAL SHEETS				
		OF SHEETS 57 (2-1)I-3	(2-1)I-3	ALEXANDER	34	3				
								CONTRACT	T NO. 78	3860
	CHEET	OF	SHEETS	STA	TO STA	ì	TILLINOIS SED A	ID DROIECT		

REV. - MS

## SUMMARY OF QUANTITIES

ALEXANDER CO	COUNTY:
FAI 57	ROUTE:
90% FEDERAL 10% STATE	FUNDING:
RURAL	LOCATION:

			LOCATION:	RURAL
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	SN 002-0001 0013
50300225	CONCRETE STRUCTURES	CU YD	43.5	43.5
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	6,750	6,750
58700300	CONCRETE SEALER	SQ FT	2,933	2,933
59000200	EPOXY CRACK INJECTION	FOOT	23	23
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10	10
67100100	MOBILIZATION	L SUM	1	1
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	42	42
X0321778	SEISMIC RESTRAINER	EACH	32	32
X0325748	ACRYLIC COATING	SQ YD	227	227
X0325749	FIBER WRAP	SQ FT	2,044	2,044
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	790	790
20012/34	SINGCIONAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN SINCHES)	3Q F1	790	730

REV. - MS

USER NAME = porterwc	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 100 0000 / in	CHECKED	REVISED
PLOT DATE = 1/26/2021	DATE	REVISED

## SUMMARY OF QUANTITIES - CONT

PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR

TEMPORARY SHORING AND CRIBBING

CLEANING AND PAINTING BEARINGS

ITEM DESCRIPTION

CODE

NUMBER

Z0043800

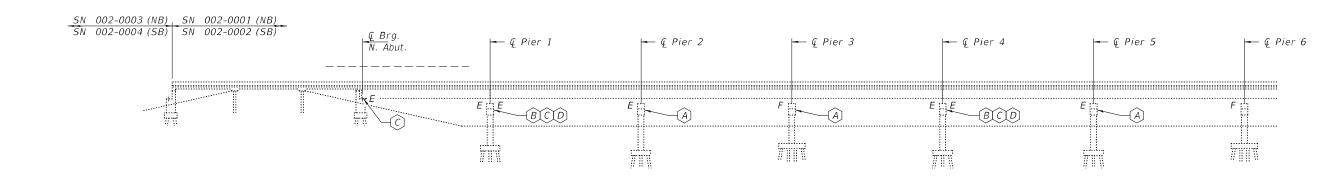
Z0073200

X0326331

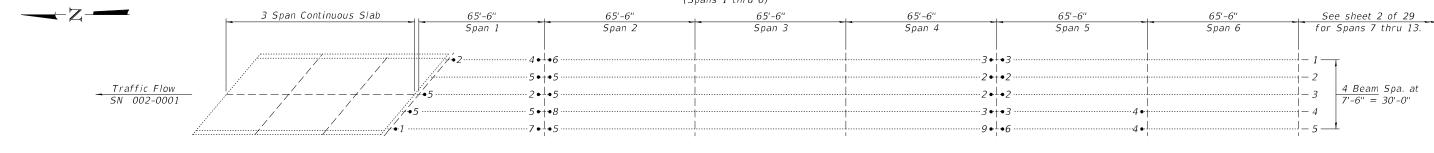
	COUNTY:	ALEXANDER CO	
	ROUTE:	FAI 57	
	FUNDING: 90% FEDERAL 10% ST		
	LOCATION:	RURAL	
UNIT	TOTAL	SN 002-0001	
ONT	QUANTITY	0013	
SQ FT	331	331	
EACH	24	24	
EACH	90	90	

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USER NAME = porterwo	DESIGNED	REVISED			F.A.I. RTE	SECTION	COUNTY TOTAL SHEET
	DRAWN	REVISED		STATE OF ILLINOIS SUMMARY OF QUANTITIES		(2-1)I-3	ALEXANDER 34 5
PLOT SCALE = 100.0000 / in	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 78860
PLOT DATE = 1/26/2021	DATE	REVISED		SCALE: SHEET OF SHEETS STA TO STA		ILLINOIS FED.	AID PROJECT









PLAN (Spans 1 thru 6)

#### LEGEND

- # Repair location with Repair Type Number
- (A) Substructure Repair
- (B) Substructure Repair and Pier Cap Encasement
- (C) Clean and paint bearings (See sheet 2 of 29)
- D Seismic cable removal and replacement



## Notes:

See sheets 2 thru 4 of 29 for Spans 7 thru 25. See sheets 5 of 29 for PPC I-beam repair type details. See sheets 6 thru 27 of 29 for Substructure Repairs. See sheet 29 of 29 for seismic cable details.

EXPIRES 11-30-2022

#### GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beam.

The existing concrete surface shall be cleaned and prepared in accordance with the Special Provisions.

See Special Provisions for "FRP Strengthening for PPC I-Beam Repairs". See Special Provisions for "Precast Prestressed Concrete I-Beam Repair". Acrylic coating shall be placed over Fiber Wrap repairs. Two coats shall be

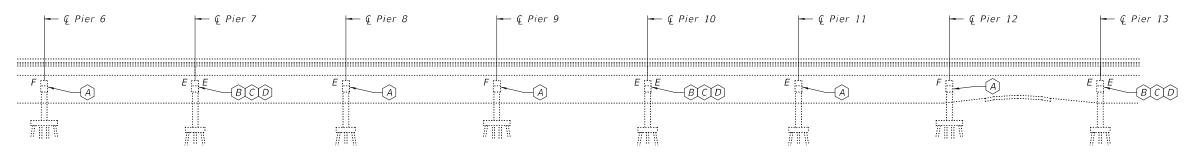
Reinforcement bars designated (E) shall be epoxy coated.

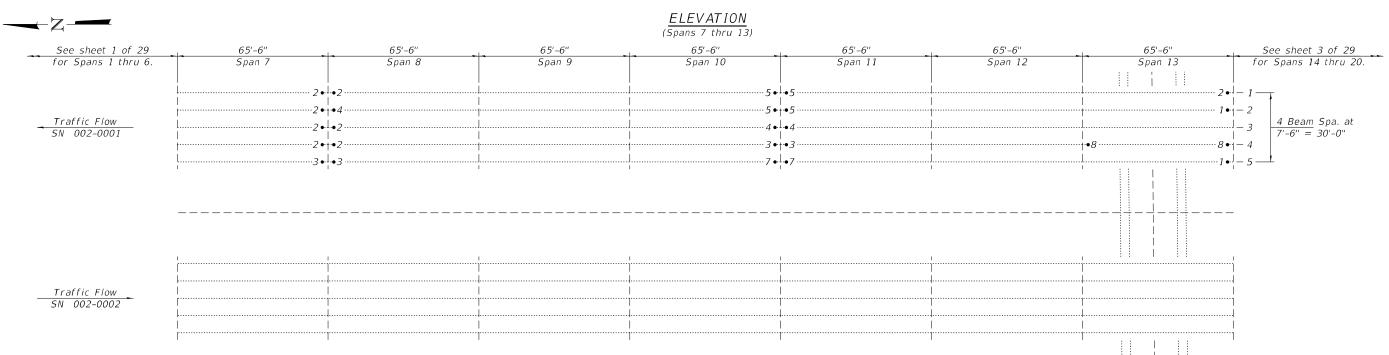
- \* Quantity includes an additional 100 Sq. Ft. for contingency purposes.
- \*\* Quantity includes an additional 200 Sq. Ft. for contingency purposes.
- \*\*\* Quantity is estimated. Location to be determined by the Engineer in the field.

## TOTAL BILL OF MATERIAL

	ITEM	UNIT	QUANTITY
	Concrete Structures	Cu. Yd.	43.5
	Reinforcment Bars, Epoxy Coated	Pound	6750
	Concrete Sealer	Sq. Ft.	2933
	Fiber Wrap	Sq. Ft.	2044
	Acrylic Coating	Sq. Yd.	227
*	Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	331
**	Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	790
	Temporary Shoring and Cribbing	Each	24
	Seismic Restrainer	Each	32
	Cleaning and Painting Bearings	Each	90
**	Epoxy Crack Sealing	Foot	23
	· · · · · · · · · · · · · · · · · · ·		

DESIGNED - Victor H. Veliz	EXAMINED	This A. Det	DATE - MARCH 3, 2021		GENERAL PLAN AND ELEVATION (SPANS 1 THRU 6)	F.A.I. RTE	SECTION	COUNTY TOTAL S	HEET NO.
CHECKED - Stephen M. Ryan		ENGINEER OF STRUCTURAL SERVICES		STATE OF ILLINOIS	FAI 57 OVER GOLDEN LILLY (T.R. 163B)	57	(2-1) I-3	ALEXANDER 34	6
DRAWN - daburdell	PASSED	In Corl Vingey	REVISED -	DEPARTMENT OF TRANSPORTATION	SN 002-0001 (NB)			CONTRACT NO. 78860	_ ر
CHECKED - VHV SMR	_	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		SHEET NO. 1 OF 29 SHEETS		ILLINOIS FED	AID PROJECT	







TYPICAL BEARING TO BE CLEANED AND PAINTED.

<u>PLAN</u> (Spans 7 thru 13)

## LEGEND

• # - Repair location with Repair Type Number

(A) – Substructure Repair

(B) - Substructure Repair and Pier Cap Encasement

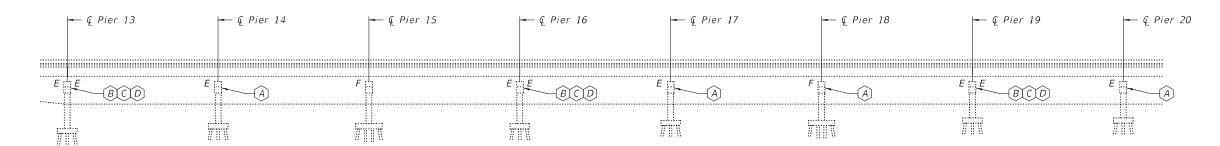
(C) - Clean and paint bearings (See sheet 2 of 29)

(D) - Seismic cable removal and replacement

#### Notes

See sheets 5 of 29 for PPC I-beam repair details. See sheets 6 thru 27 of 29 for Substructure Repairs. See sheet 29 of 29 for seismic cable details.

DESIGNED - VHV	EXAMINED	I mot A A I A	DATE - MARCH 3, 2021		GENERAL PLAN AND ELEVATION (SPANS 7 THRU 13)	F.A.I. RTF	SECTION	COUNTY TOTAL SHEET
CHECKED - SMR		ENGINEER OF STRUCTURAL SERVICES		STATE OF ILLINOIS		57	(2-1) I-3	ALEXANDER 34 7
DRAWN - daburdell	PASSED	& Carl Princer	REVISED -	DEPARTMENT OF TRANSPORTATION	SN 002-0001 (NB)	'		CONTRACT NO. 78860
CHECKED - VHV SMR	1 —	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		SHEET NO. 2 OF 29 SHEETS		ILLINOIS I	FED AID PROJECT





## ELEVATION (Spans 14 thru 20)

See sheet 2 of 29 or Spans 7 thru 13.	65'-6"	65'-6"	65'-6"	65'-6"	65'-6"	65'-6"	65'-6''	See sheet 4 of 2
or Spans 7 thru 13.	Span 14	Span 15	Span 16	Span 17	Span 18	Span 19	Span 20	See sheet 4 of 2 for Spans 21 thru
L. <sub>•</sub>	1		2•			7 •	ļ. <sub>1</sub>	
			  5++•2:	 			+• 1 ·····	1 - 2
Traffic Flow SN 002-0001		<u> </u>		<u> </u>		, 7 •	1	4 Beam Spa. 6 7'-6" = 30'-0"
SN 002-0001	1	<u> </u>	, , , , , , , , , , , , , , , , , , ,			, .	+•9	7'-6" = 30'-0"
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- - - -	J							
-       	3							
Traffic Flow   5N 002-0002	3							

<u>PLAN</u> (Spans 14 thru 20)

## LEGEND

- # Repair location with Repair Type Number
- (A) Substructure Repair
- (B) Substructure Repair and Pier Cap Encasement
- (C) Clean and paint bearings (See sheet 2 of 29)
- (D) Seismic cable removal and replacement

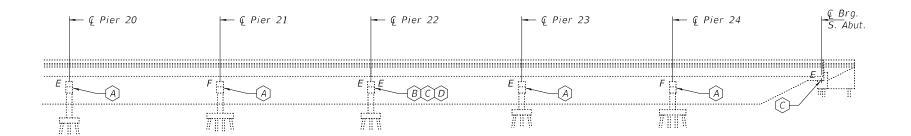
### Notes:

See sheets 5 of 29 for PPC I-beam repair details. See sheets 6 thru 27 of 29 for Substructure Repairs. See sheet 29 of 29 for seismic cable details.

DESIGNED - VHV	EXAMINED	I most A A I at	DATE -	MARCH 3, 2021
CHECKED - SMR		ENGINEER OF STRUCTURAL SERVICES		
DRAWN - daburdell	PASSED	d. Carl Prayer	REVISED	-
CHECKED - VHV SMR	]	ENGINEER OF BRIDGES AND STRUCTURES	REVISED	-

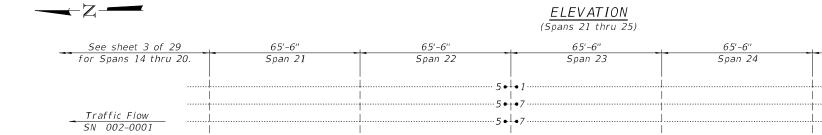
STATE OF ILLINOIS						
DEPARTMENT OF TRANSPORTATION						

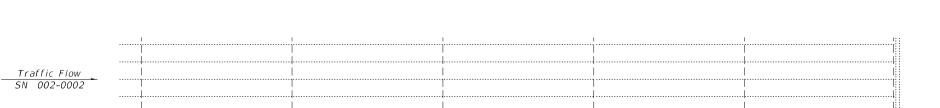
	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SN 002-0001 (NB)	57	(2-1) I-3	ALEXANDER	34	8
3N 002-0001 (ND)			CONTRACT	NO 788	360
SHEET NO. 3 OF 29 SHEETS		ILLINOIS FED A	ID PROJECT		



64'-8''

Span 25





··4•¦•5· ··4•¦•5·

> <u>PLAN</u> (Spans 21 thru 25)

## LEGEND

- # Repair location with Repair Type Number
- A Substructure Repair
- $\widehat{B}$  Substructure Repair and Pier Cap Encasement
- C Clean and paint bearings (See sheet 2 of 29)
- (D) Seismic cable removal and replacement

#### Notes:

See sheets 5 of 29 for PPC I-beam repair details. See sheets 6 thru 27 of 29 for Substructure Repairs. See sheet 29 of 29 for seismic cable details.

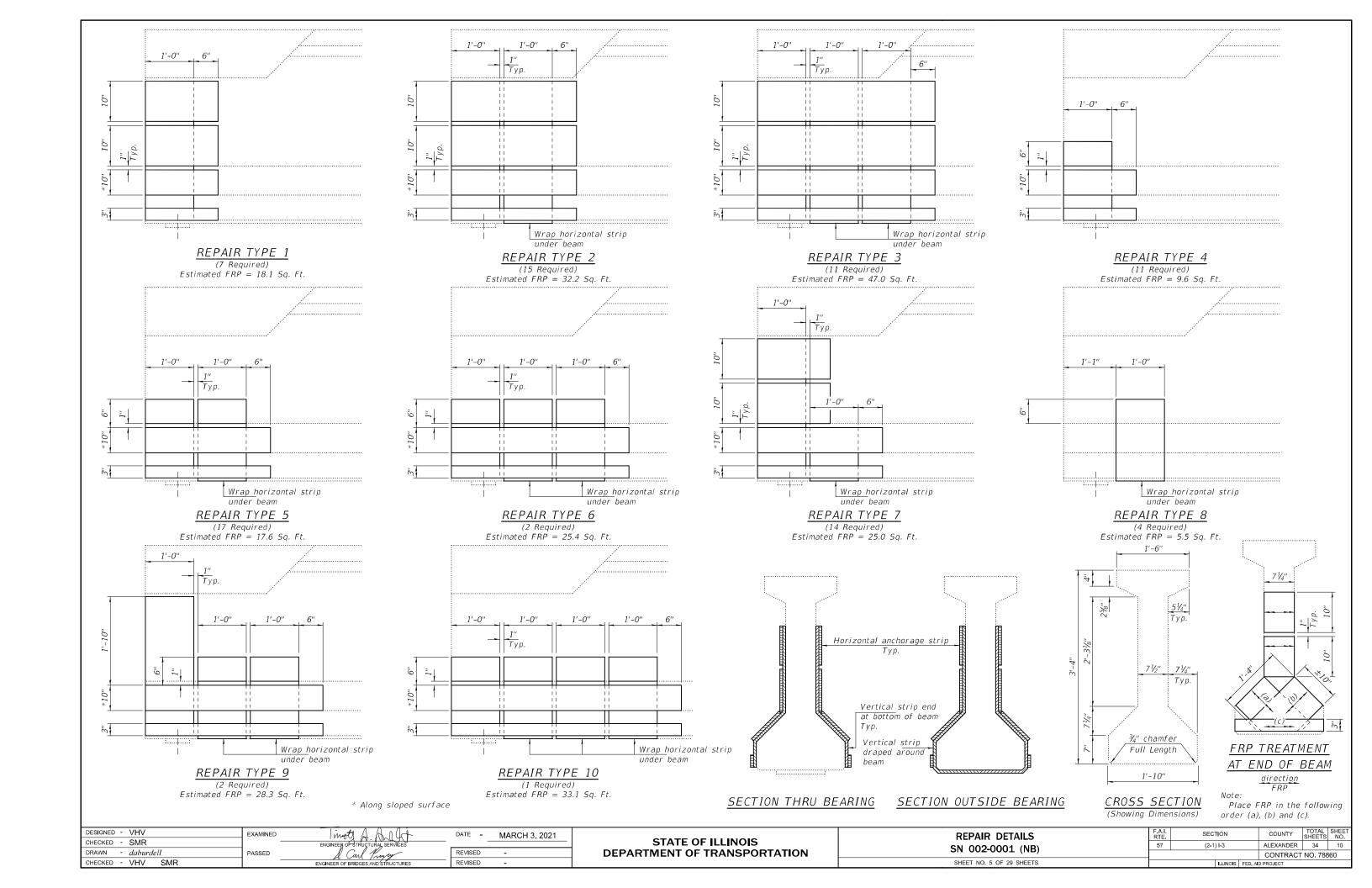
DESIGNED - VHV	EXAMINED	I mote A A I A	DATE -	MARCH 3, 2021	
CHECKED - SMR		ENGINEER OF STRUCTURAL SERVICES			STATE OF ILLINOIS
DRAWN - daburdell	PASSED	d Carl Progrey	REVISED	-	DEPARTMENT OF TRANSPORTATION
CHECKED - VHV SM	1R	ENGINEER OF BRIDGES AND STRUCTURES	REVISED	-	

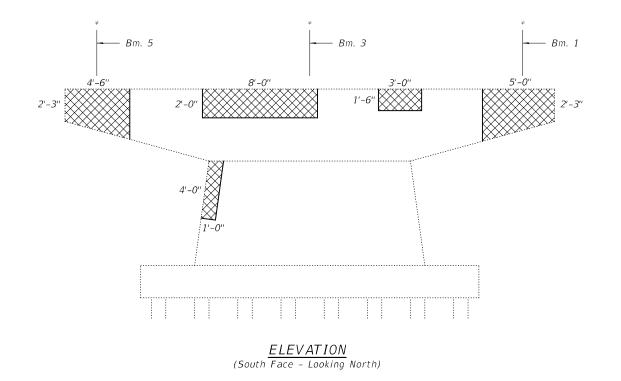
GENERAL	PLAN		ELEVATION 002-0001	`	21	THRU 25	5)
		SHE	ET NO. 4 OF 29 S	HEETS			

4 Beam Spa. at 7'-6" = 30'-0"

-10• 1 − 3

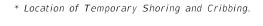
F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.		
57	(2-1) I-3		ALEXANDER	34	9	
		CONTRACT	NO. 788	360		
ILLINOIS FED, AID PROJECT						





## BEAM REACTIONS

R₽	(K)	47
Rs₽	(K)	13
R 4	(K)	40
R Imp.	(K)	11
R (Total)	(K)	111



\*\* Concrete on these areas to be poured monolithically with the concrete shown on sheet 28 of 29.



END ELEVATION (West Face – Looking East)

Notes: Hatched area indicates Structural Repair of Concrete (Depth ≤ 5"). See sheet 28 of 29 for pier cap encasement details.

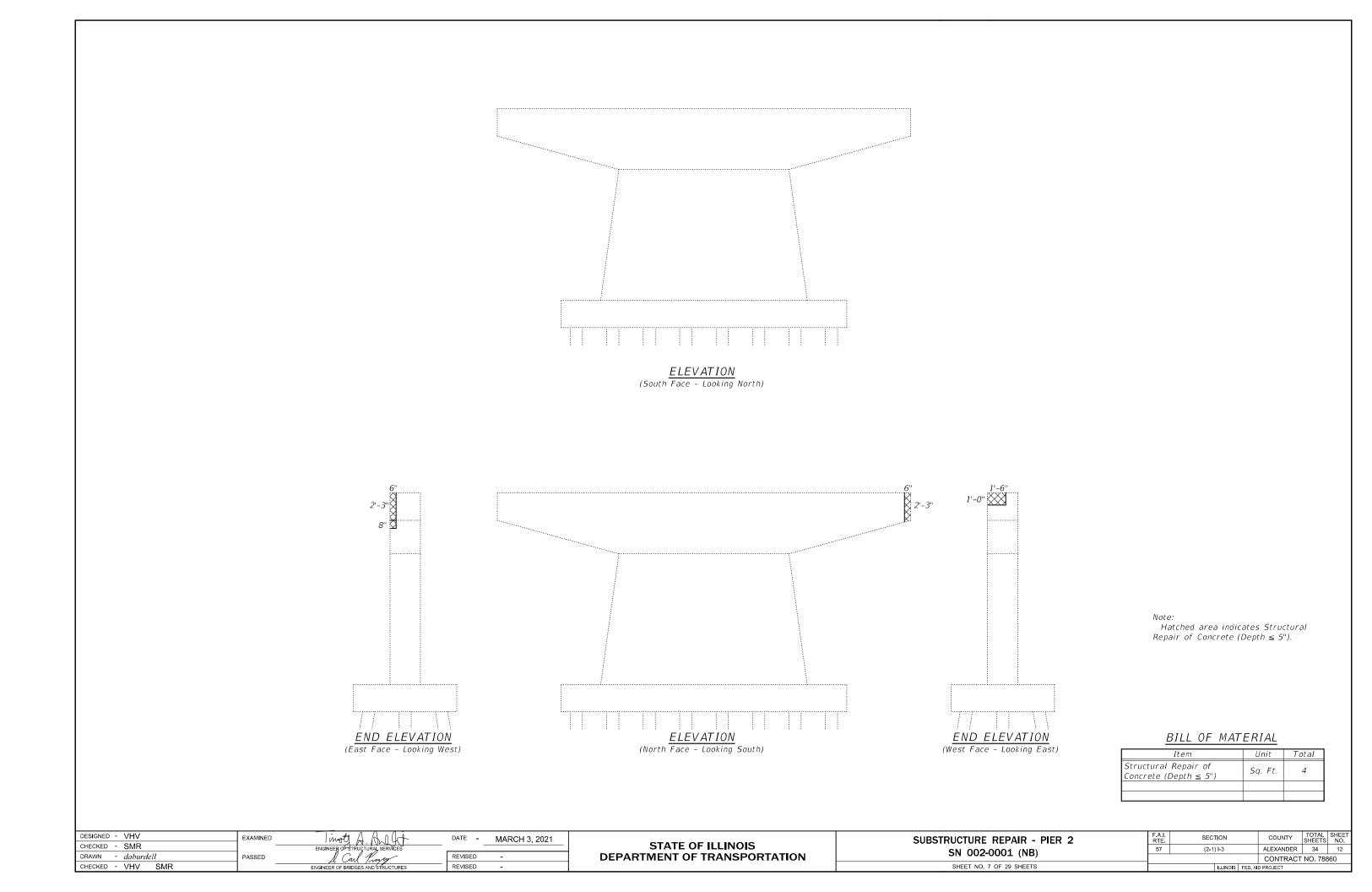
## BILL OF MATERIAL

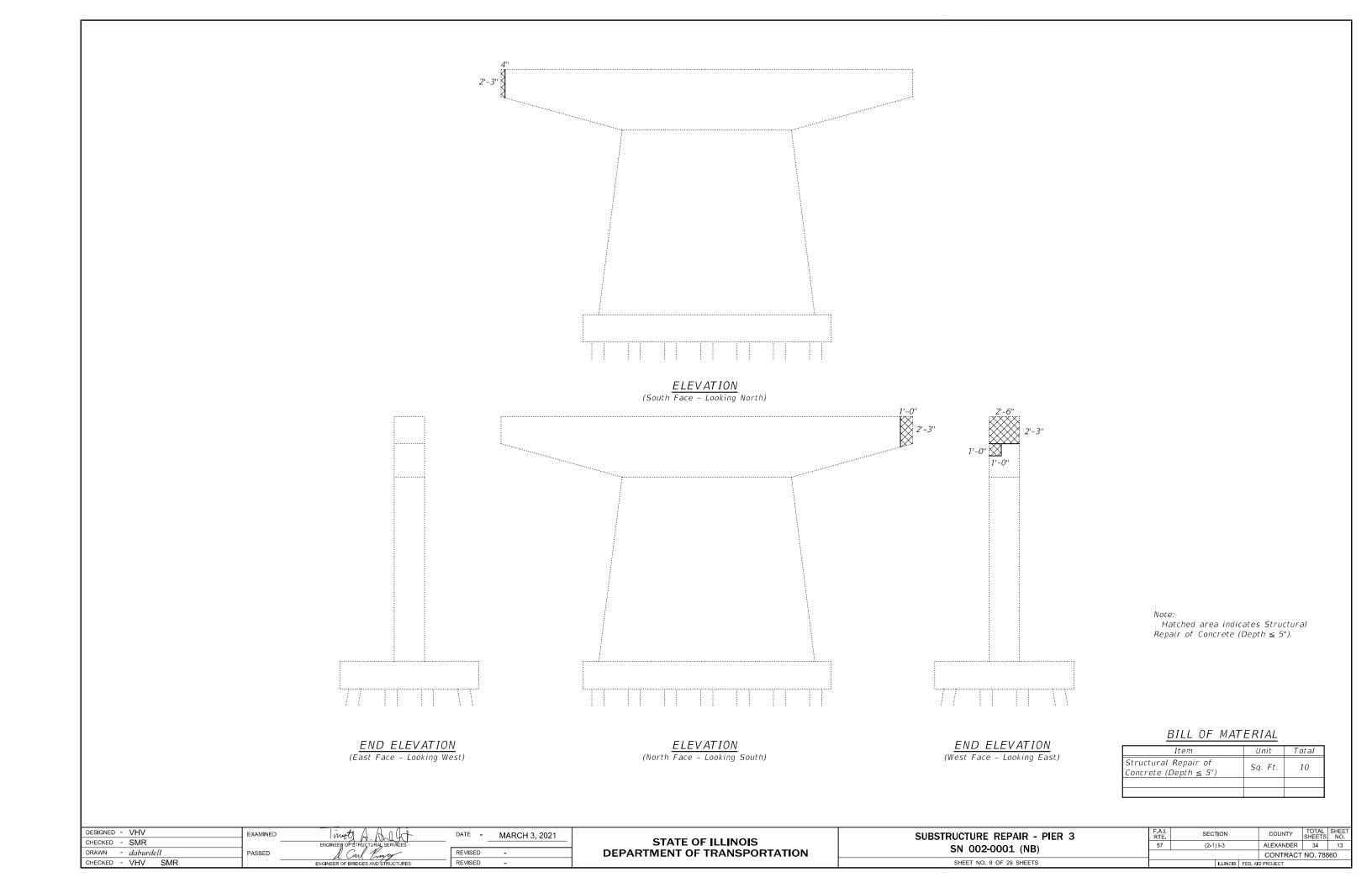
Item	Unit	Total
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.	89
Temporary Shoring and Cribbing	Each	3

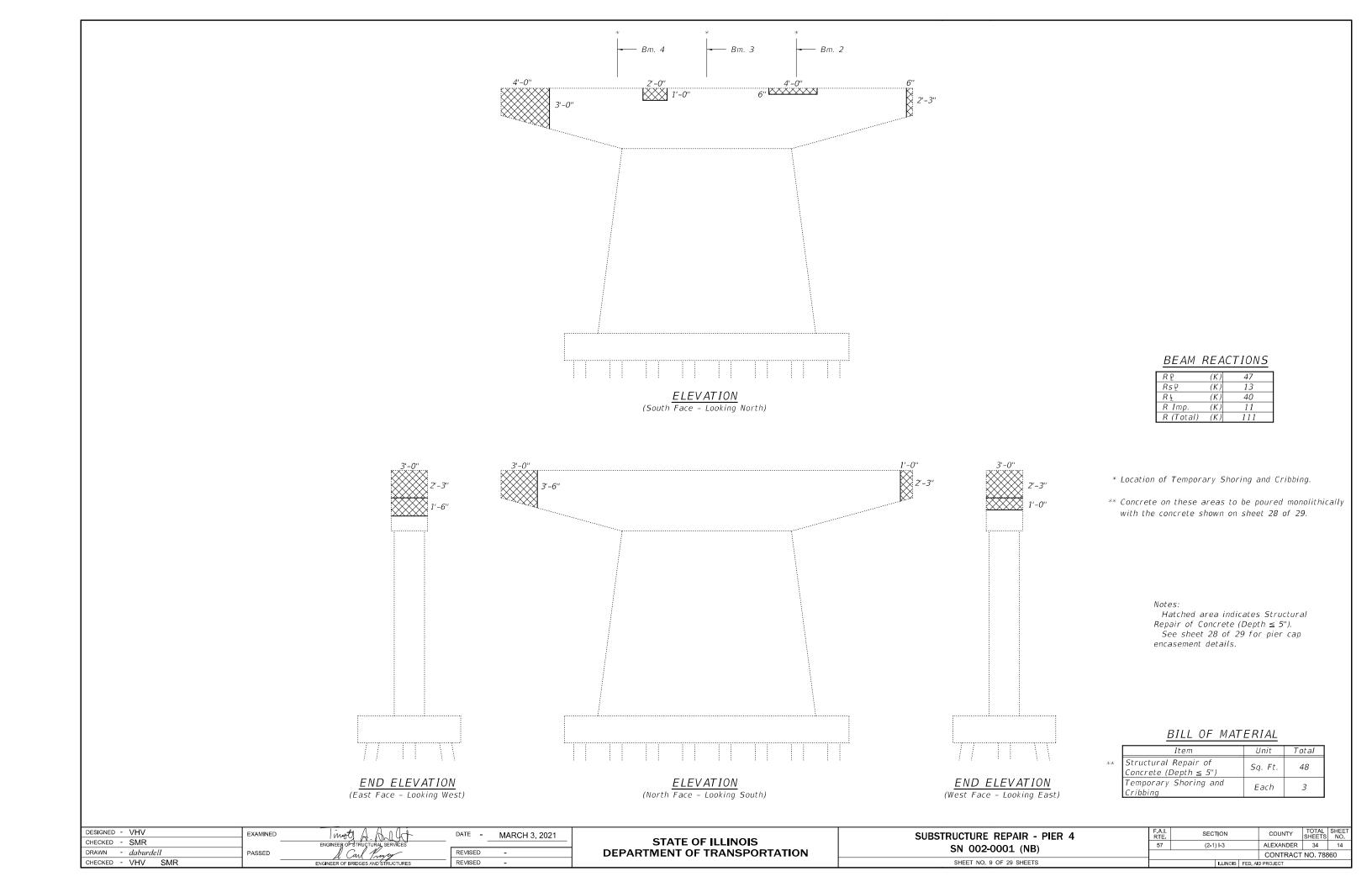
DESIGNED - VHV	EXAMINED	I most A A 1 (ct	DATE - MARCH 3, 2021		SUBSTRUCTURE REPAIR - PIER 1	F.A.I.	SECTION	COUNTY TOTA	AL SHEET
CHECKED - SMR		ENGINEER OF STRUCTURAL SERVICES		STATE OF ILLINOIS	SN 002-0001 (NB)	57	(2-1) I-3	ALEXANDER 34	1 11
DRAWN - daburdell	PASSED	S. Carl Pruyey	REVISED -	DEPARTMENT OF TRANSPORTATION	SN 002-0001 (NB)			CONTRACT NO. 7	78860
CHECKED - VHV SMR	_	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		SHEET NO. 6 OF 29 SHEETS		ILLINOIS F	ED, AID PROJECT	

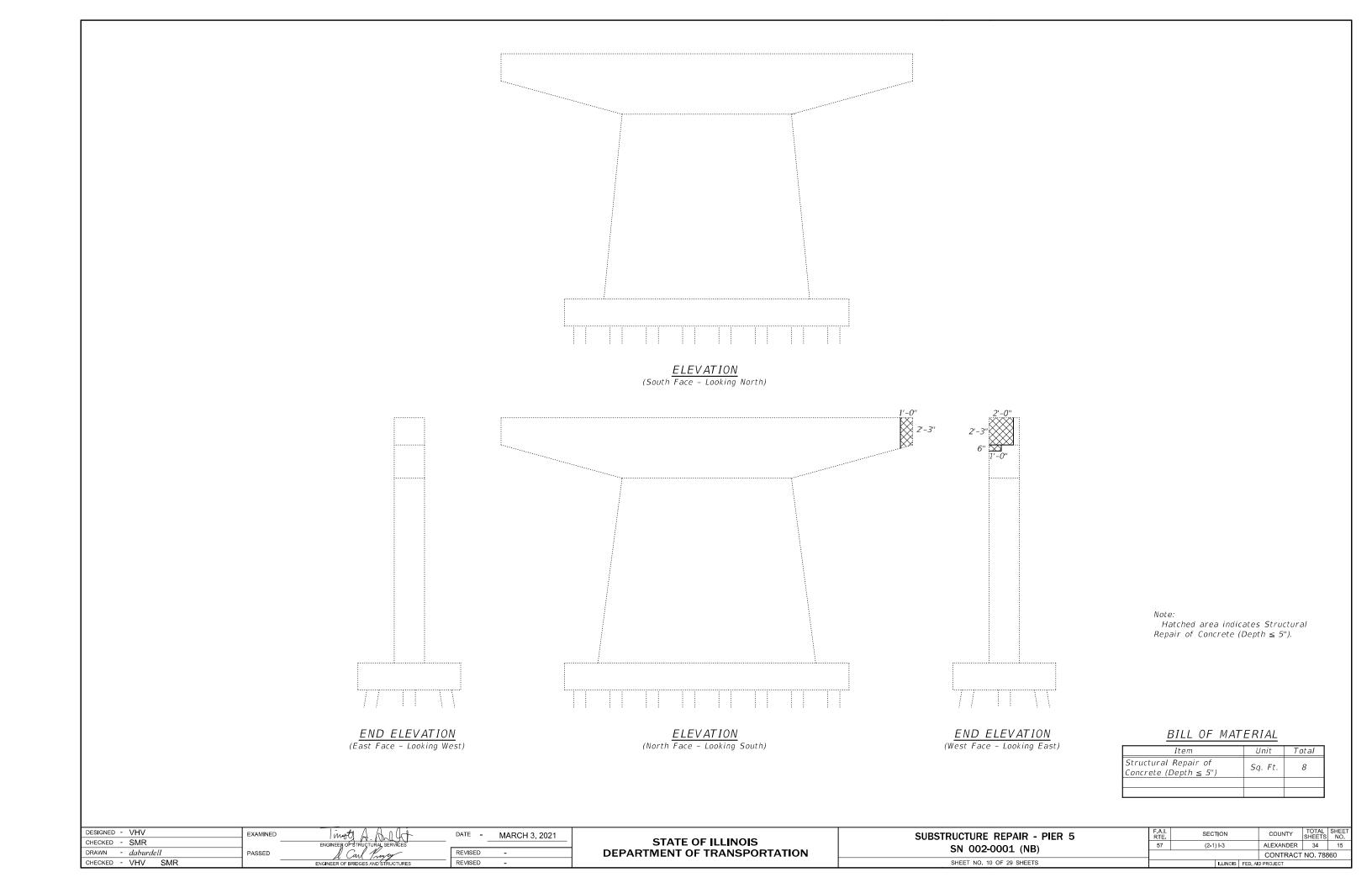
ELEVATION
(North Face - Looking South)

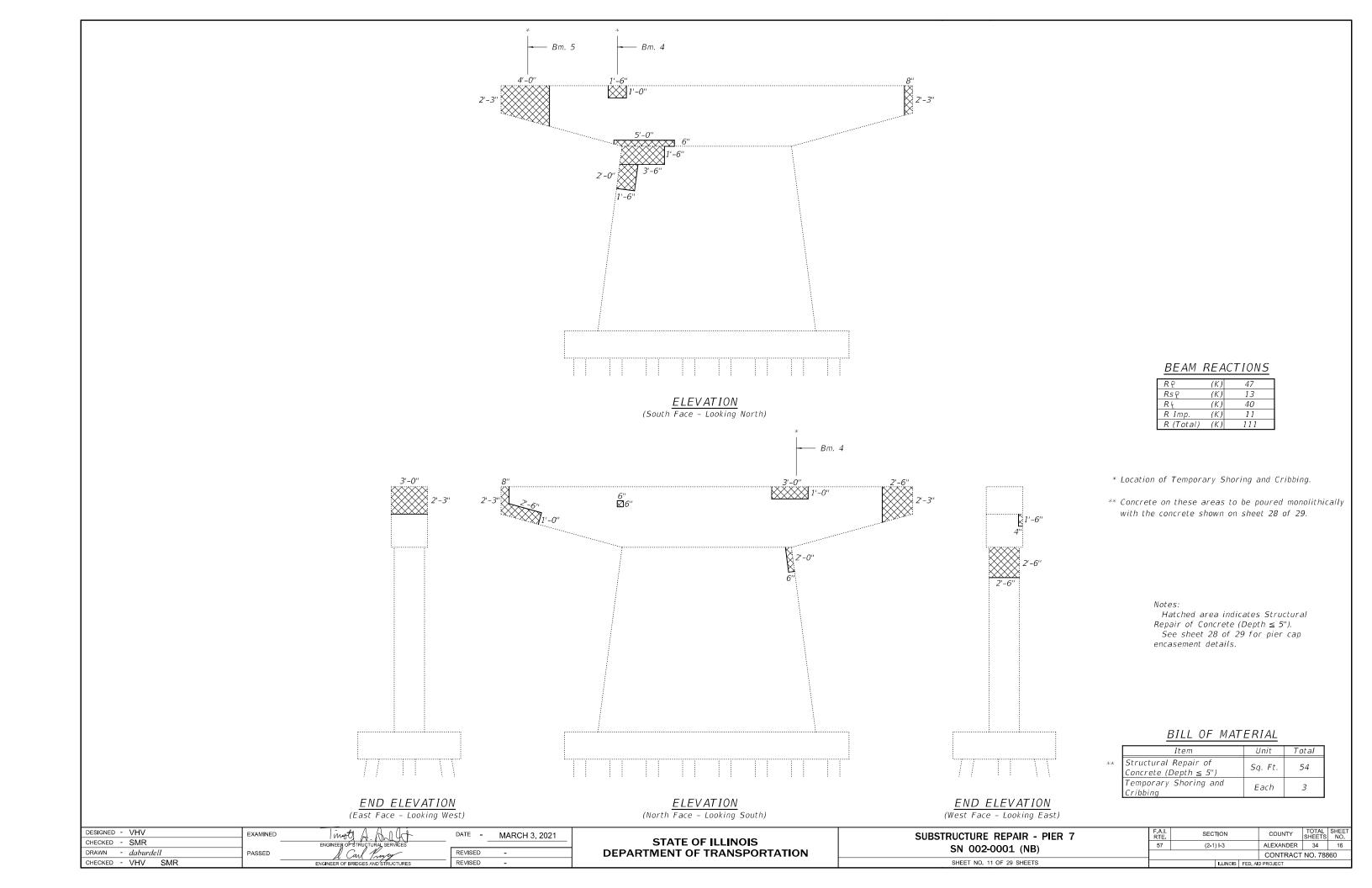
END ELEVATION (East Face - Looking West)

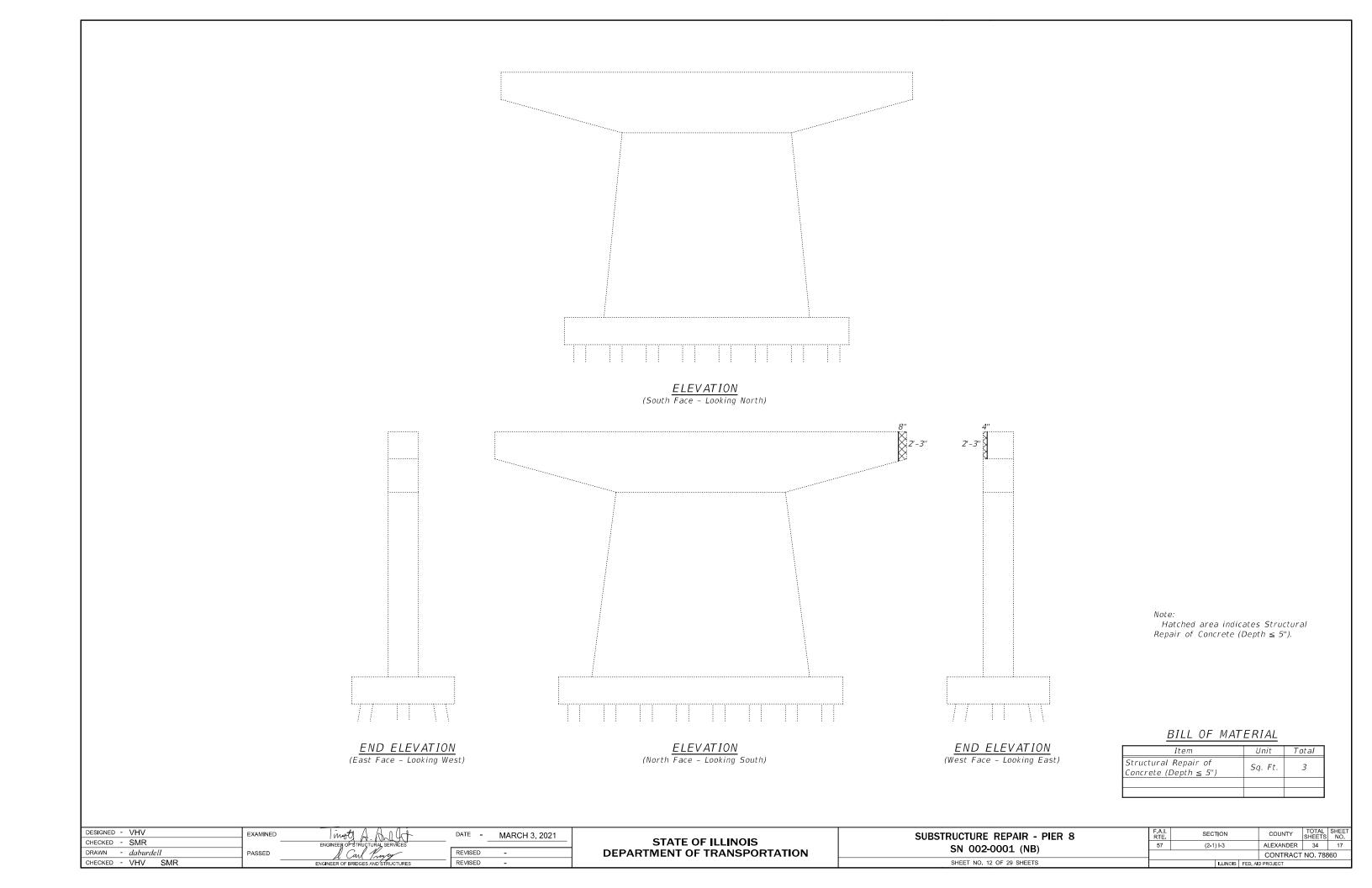


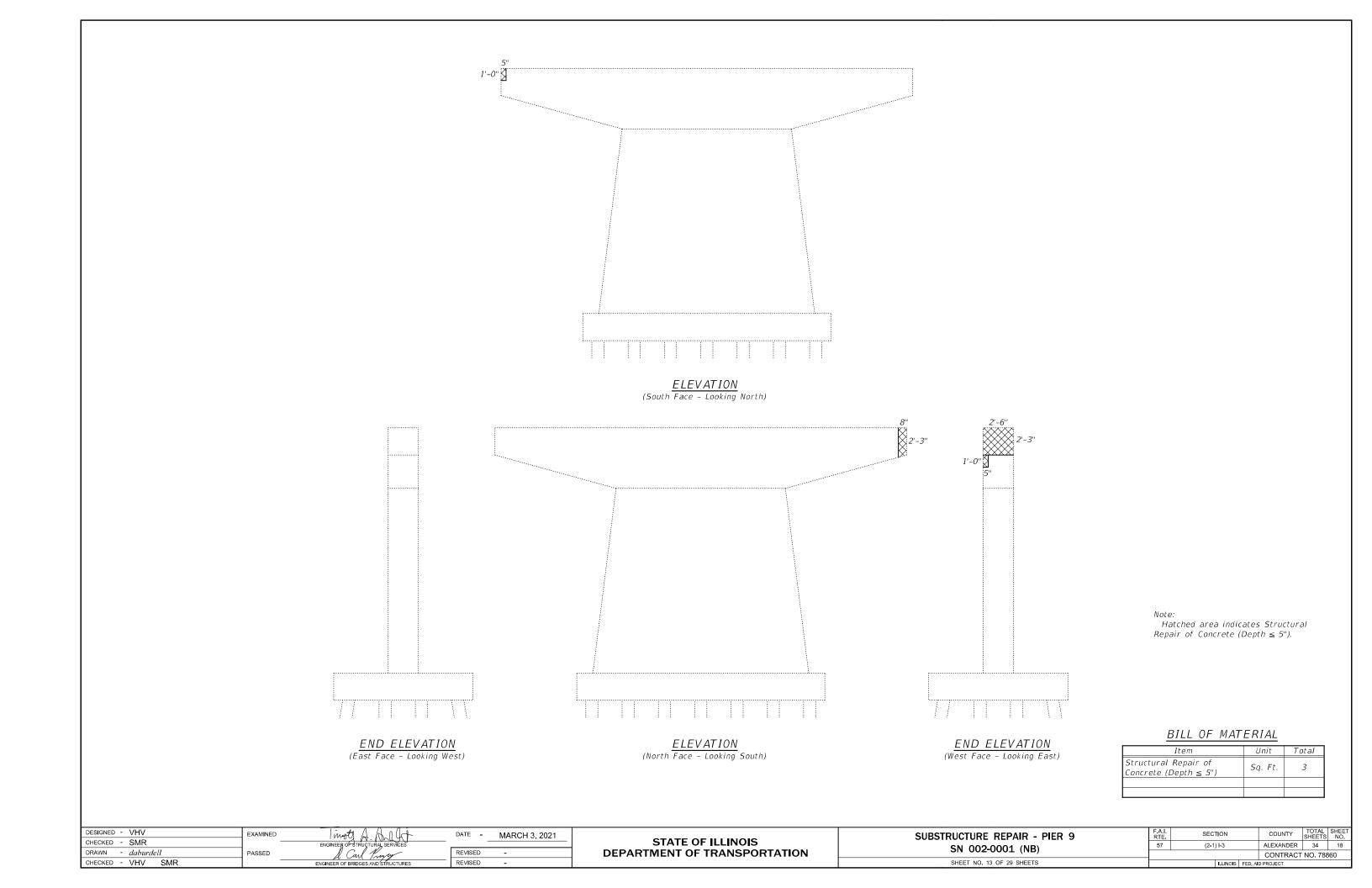


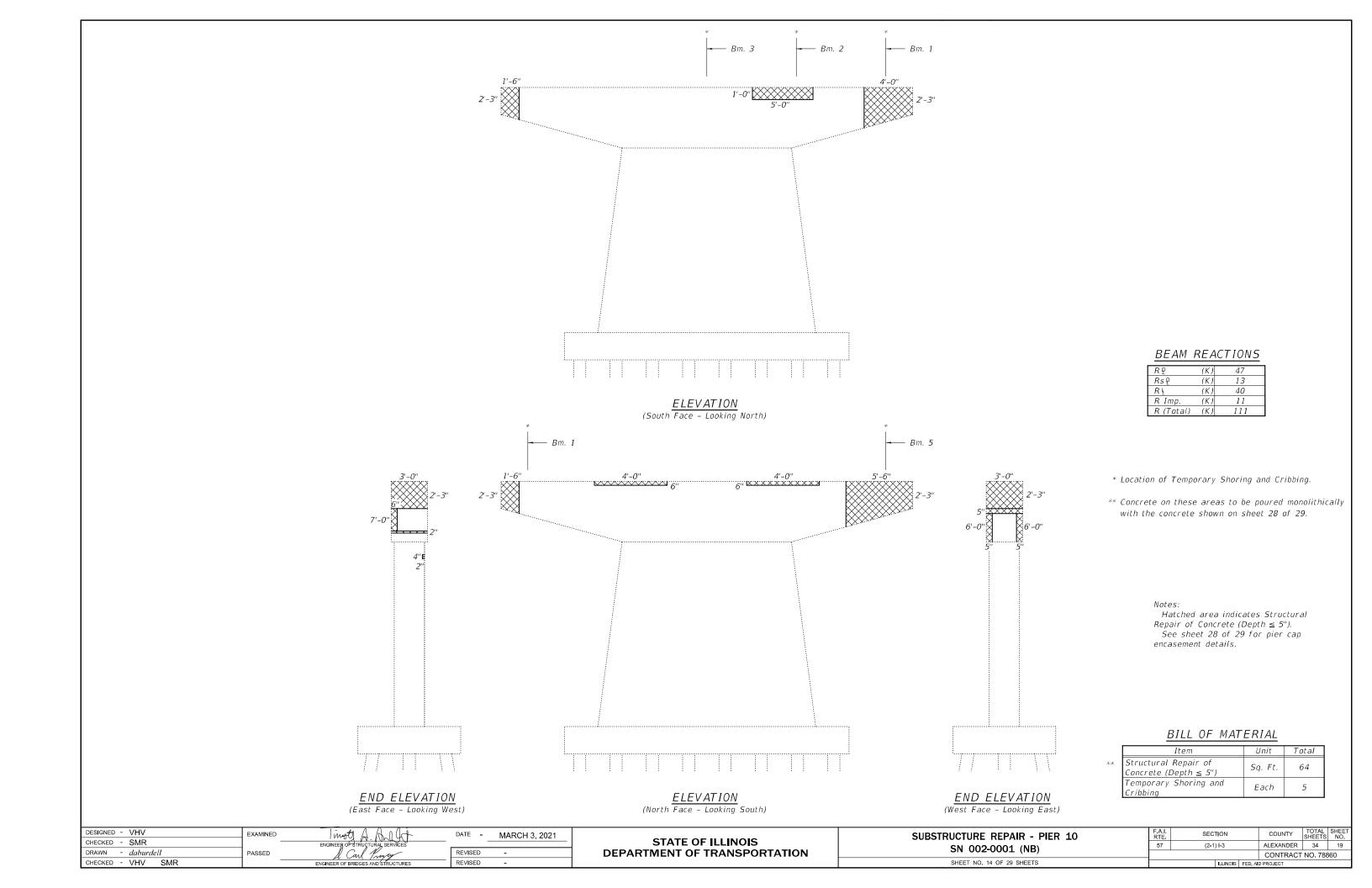


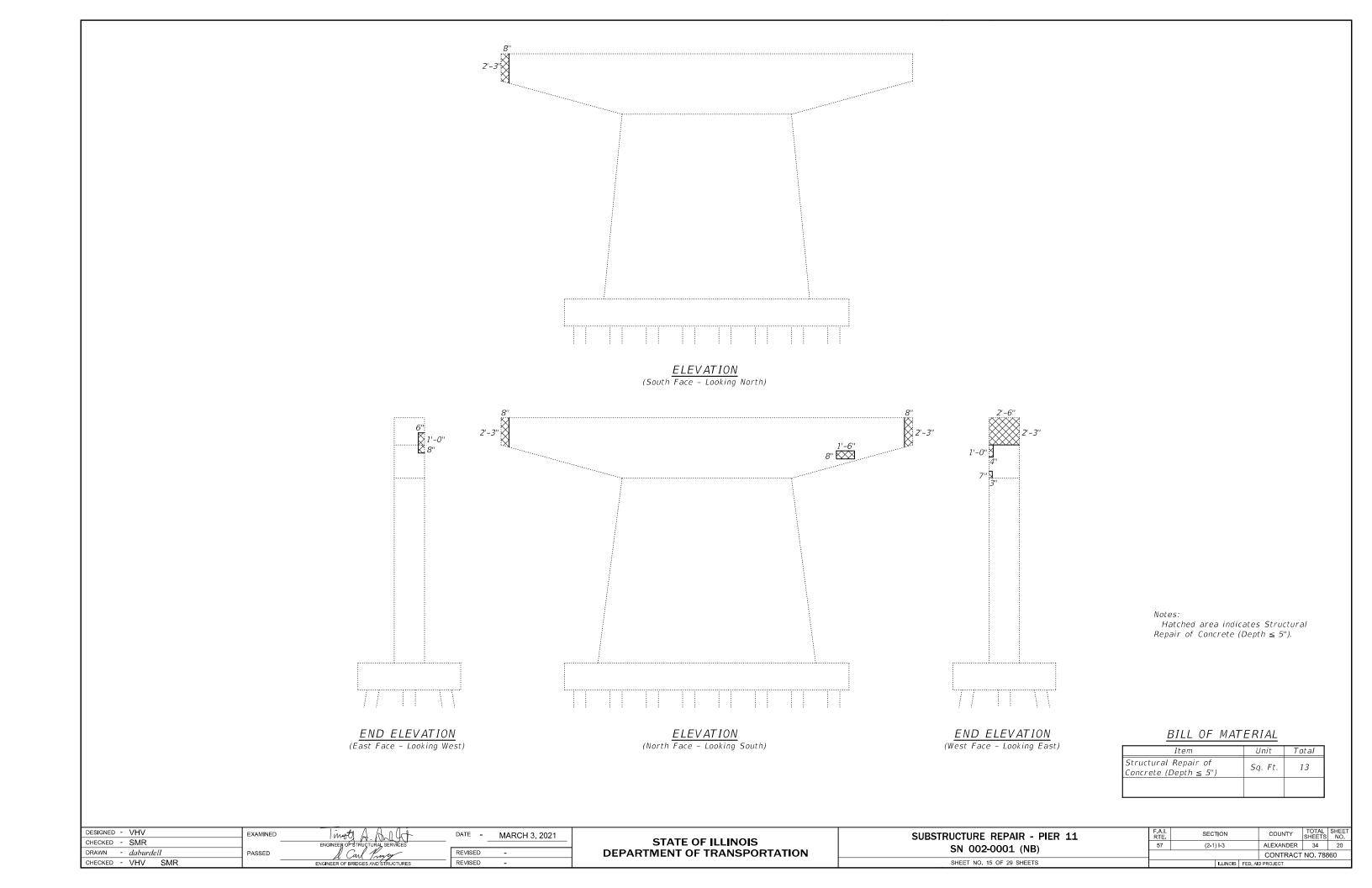


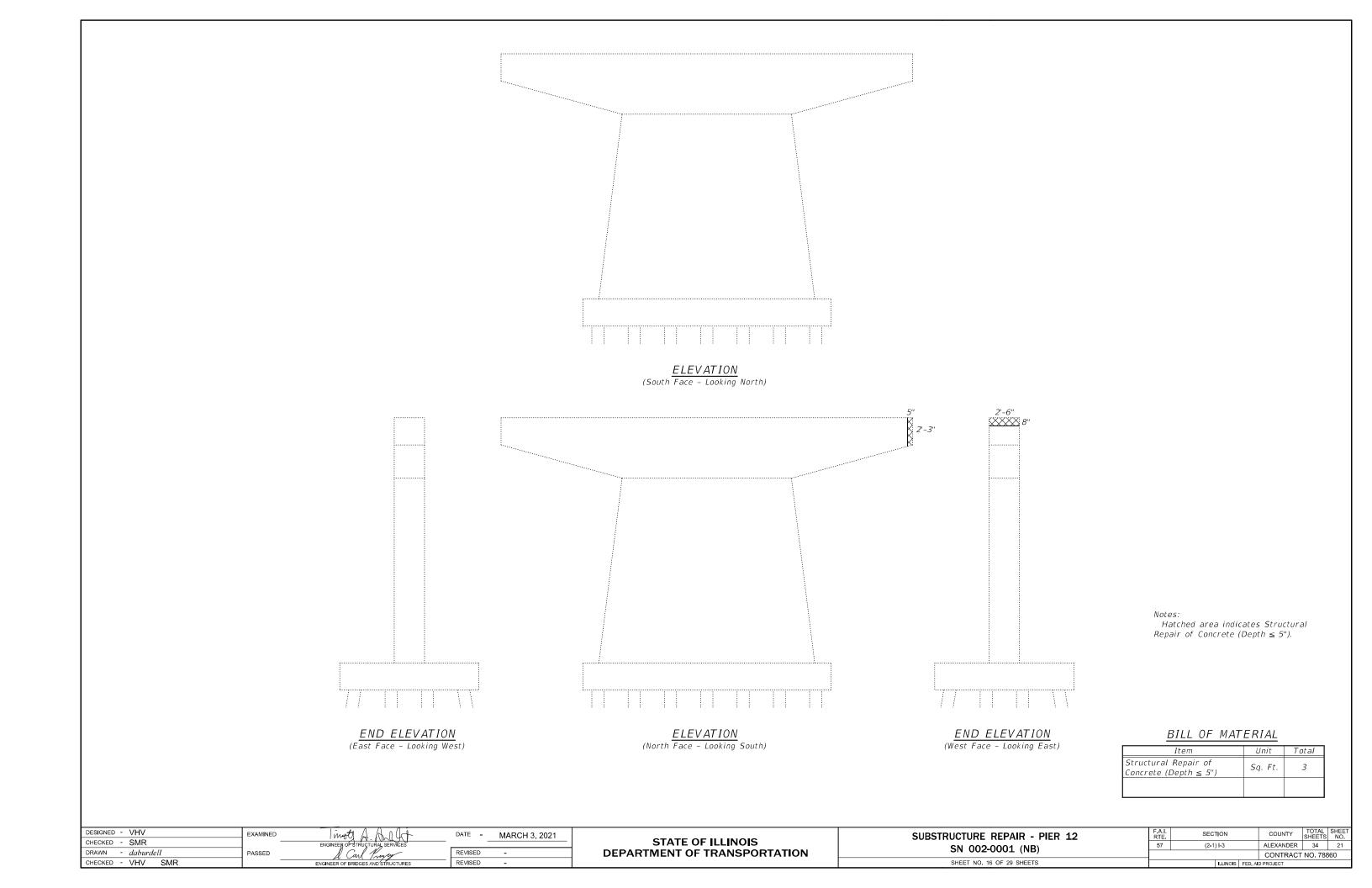


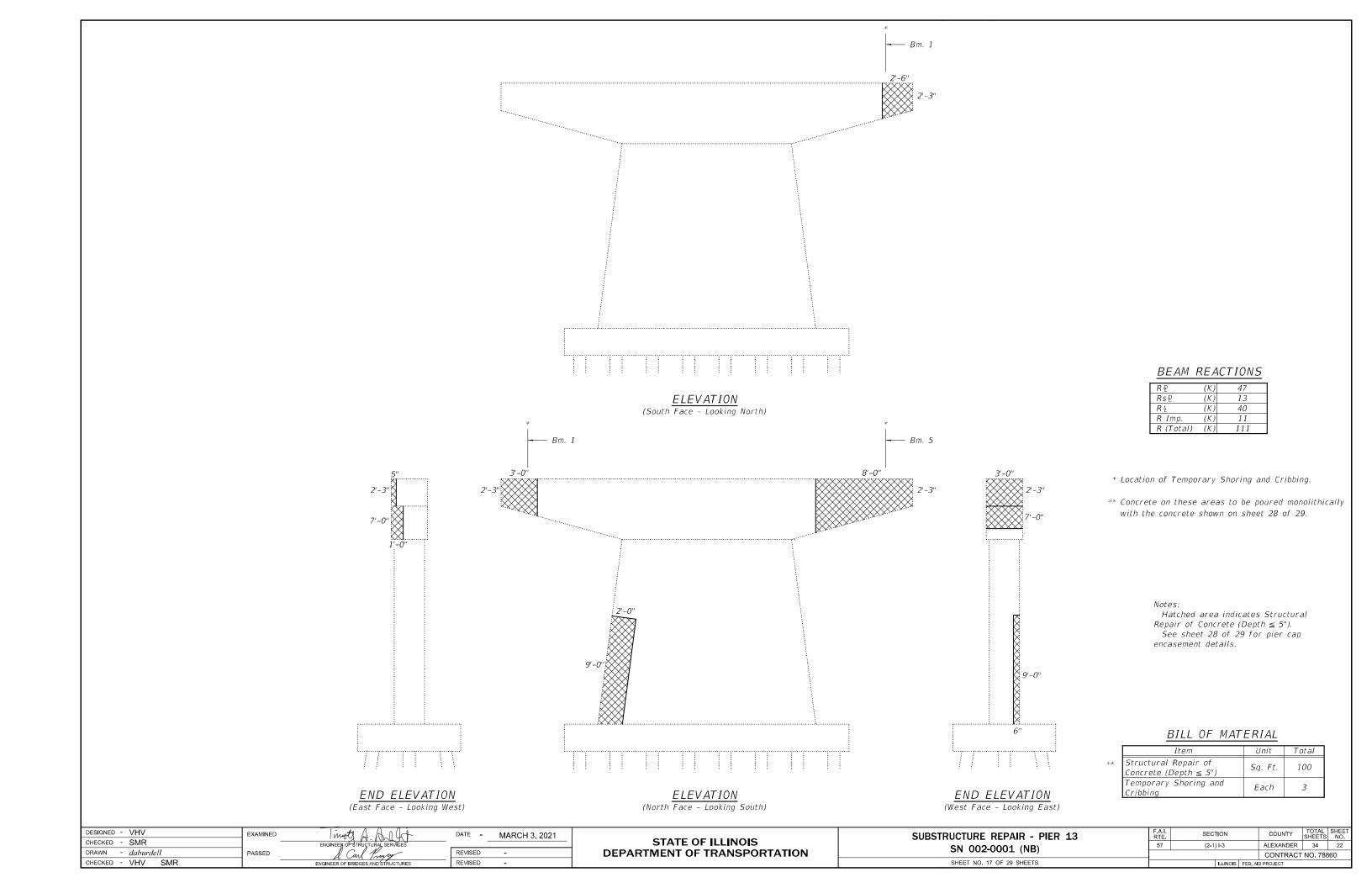


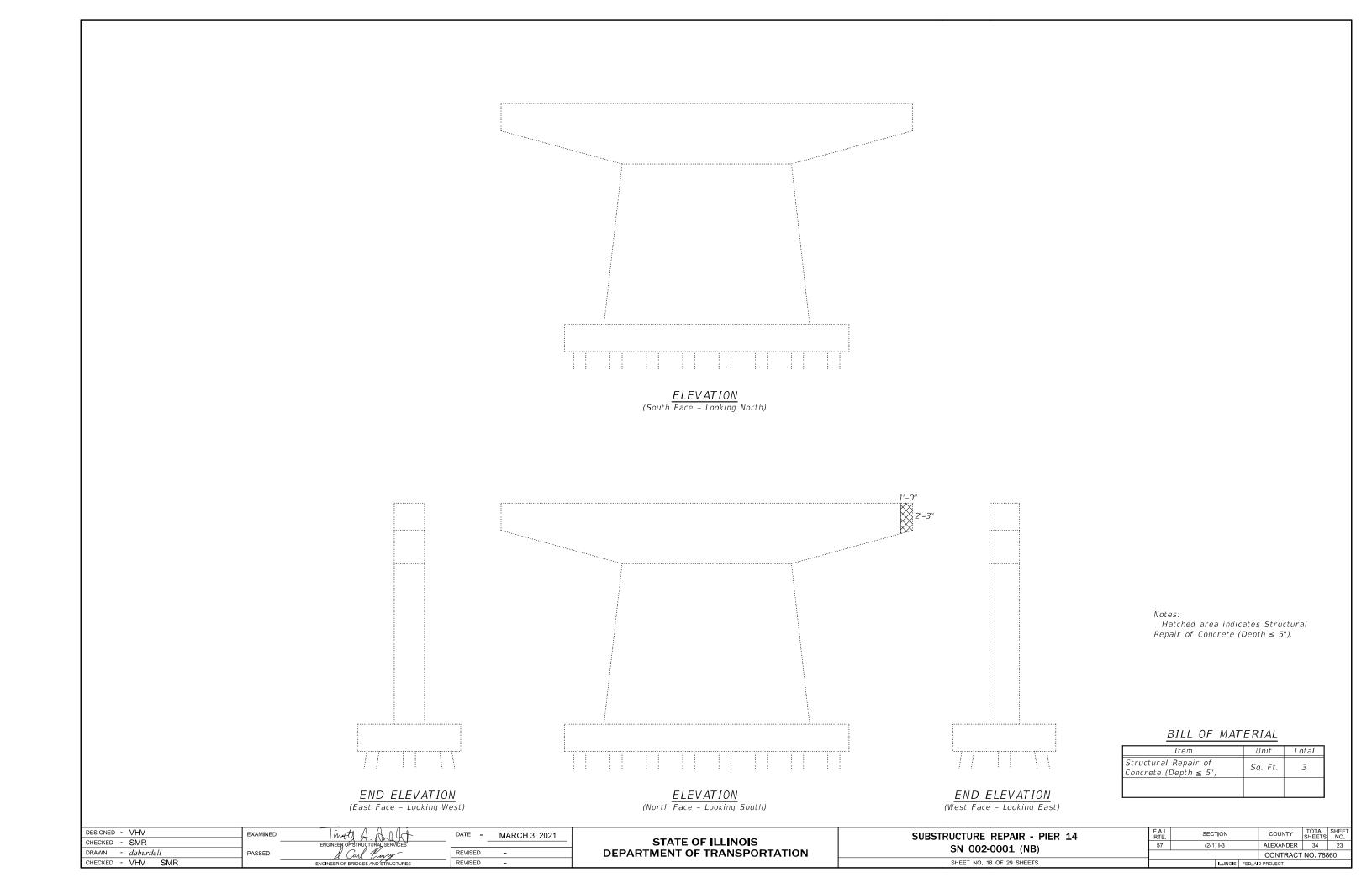


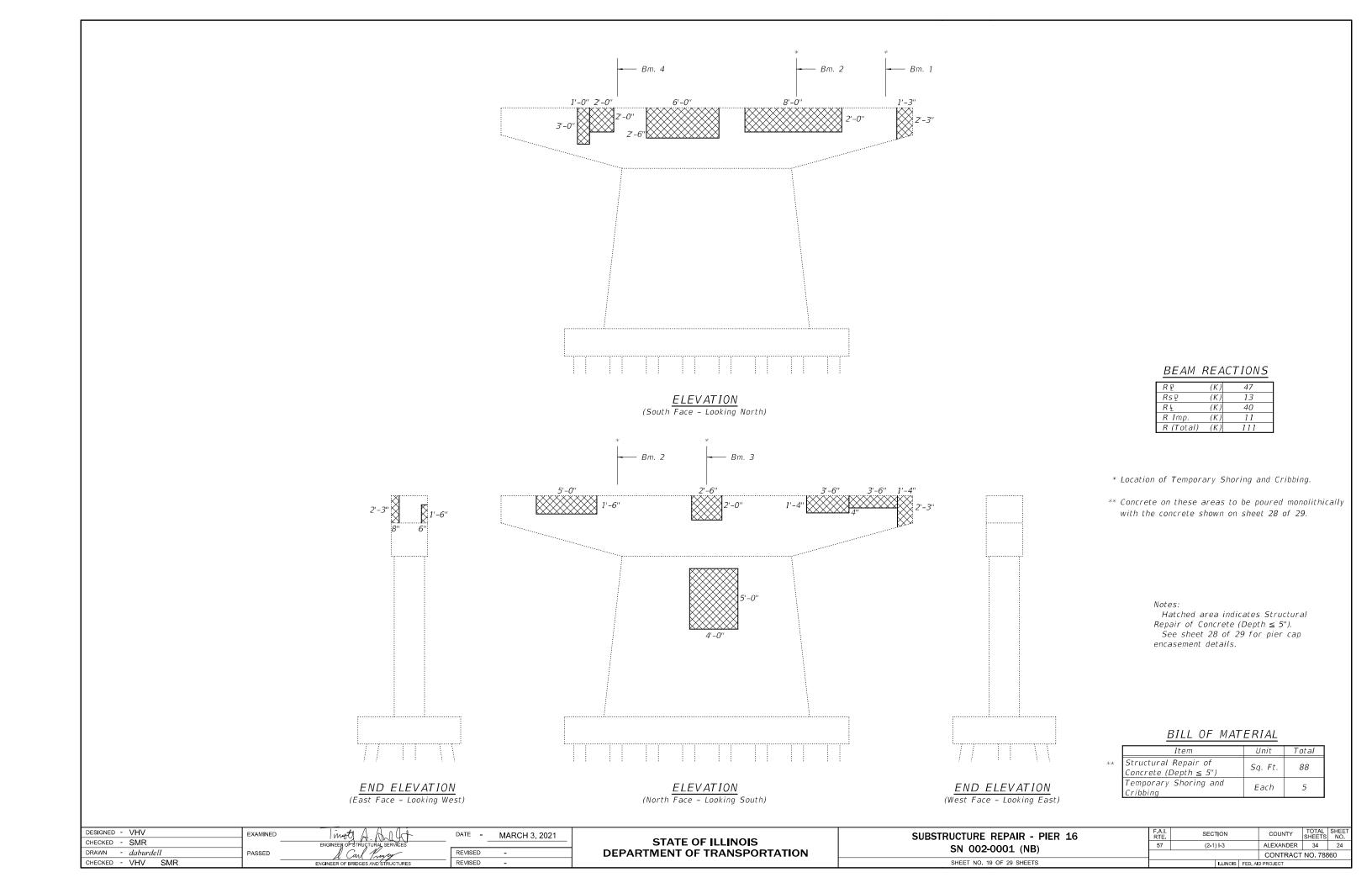


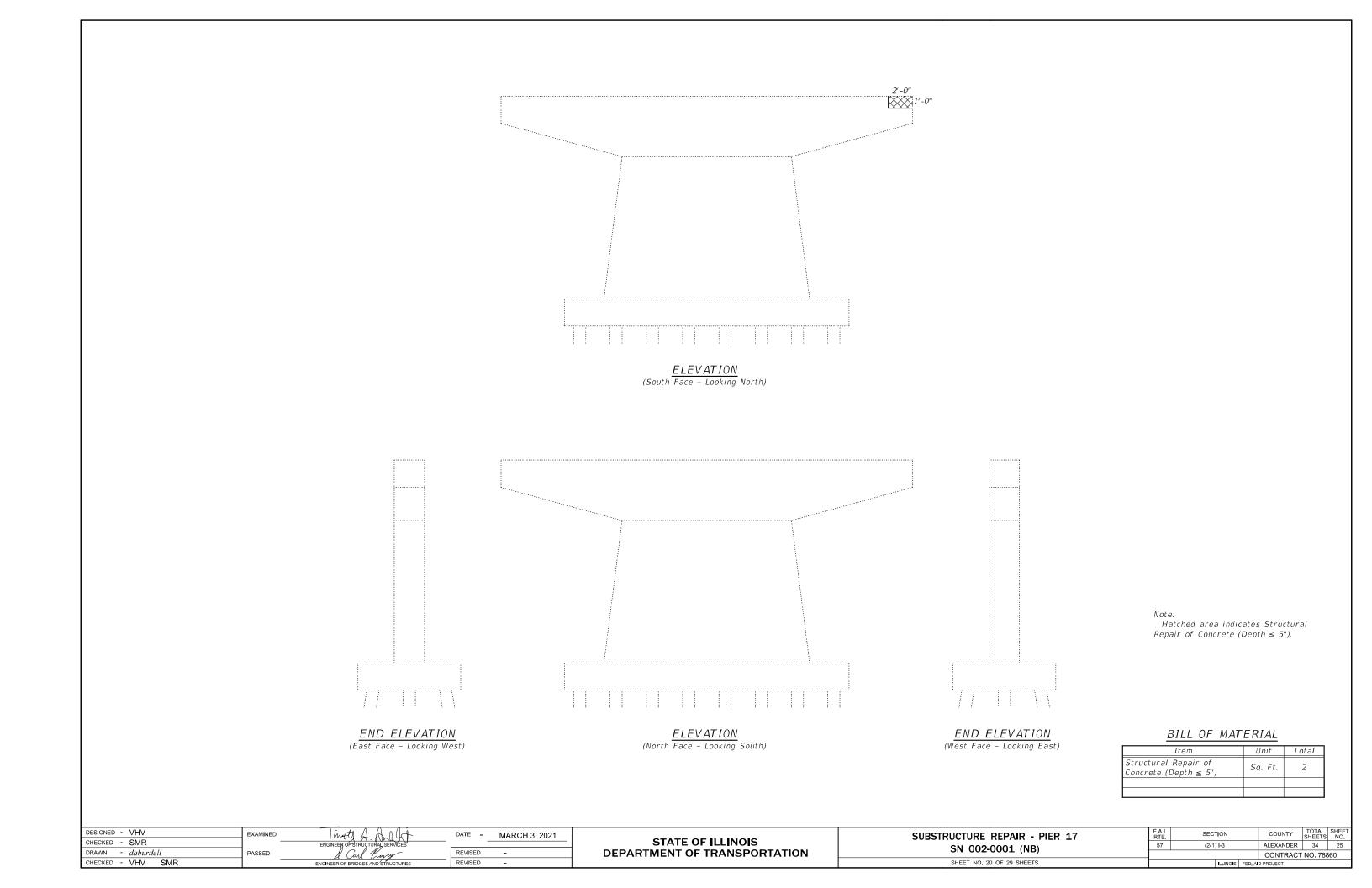


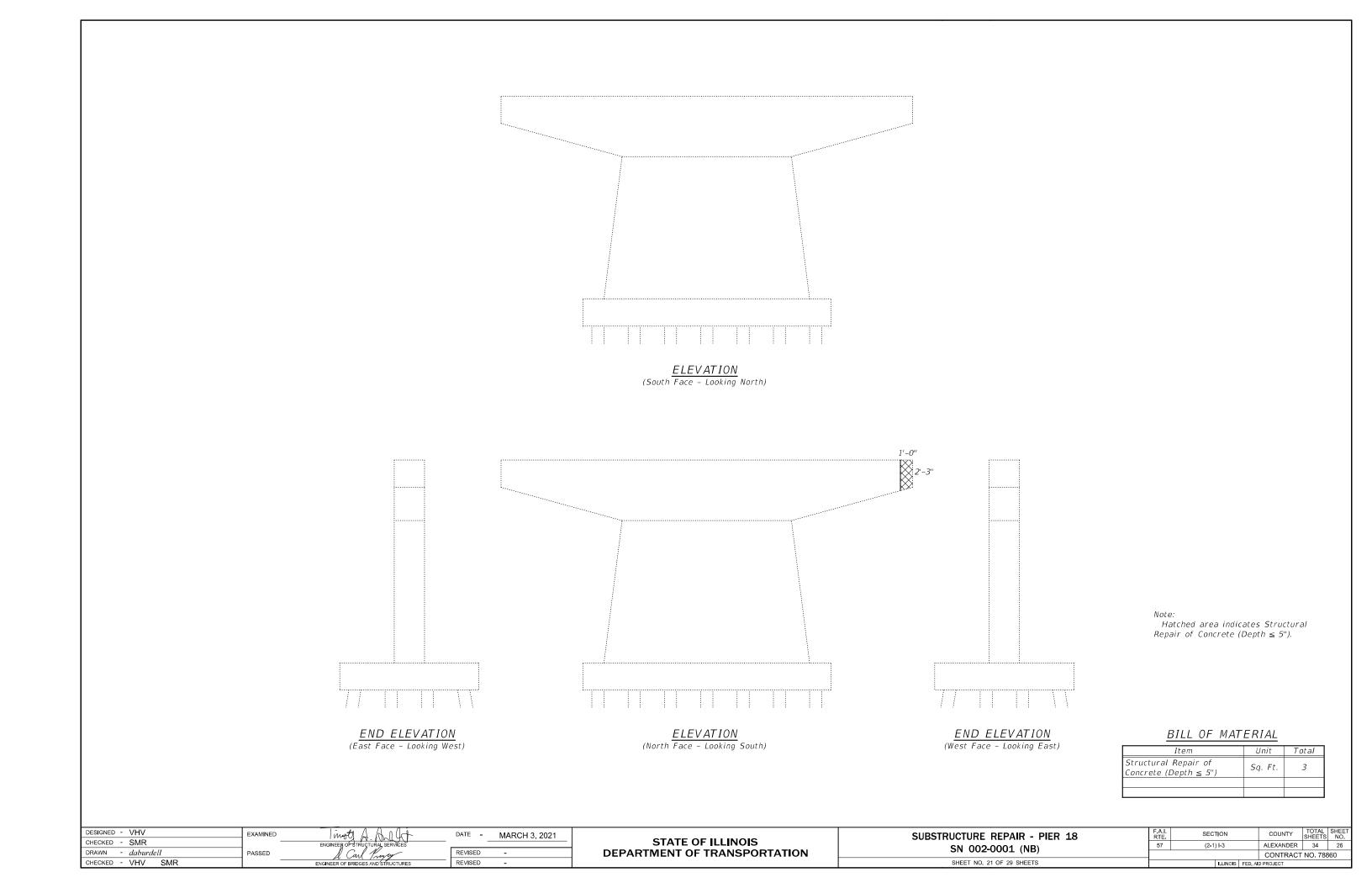


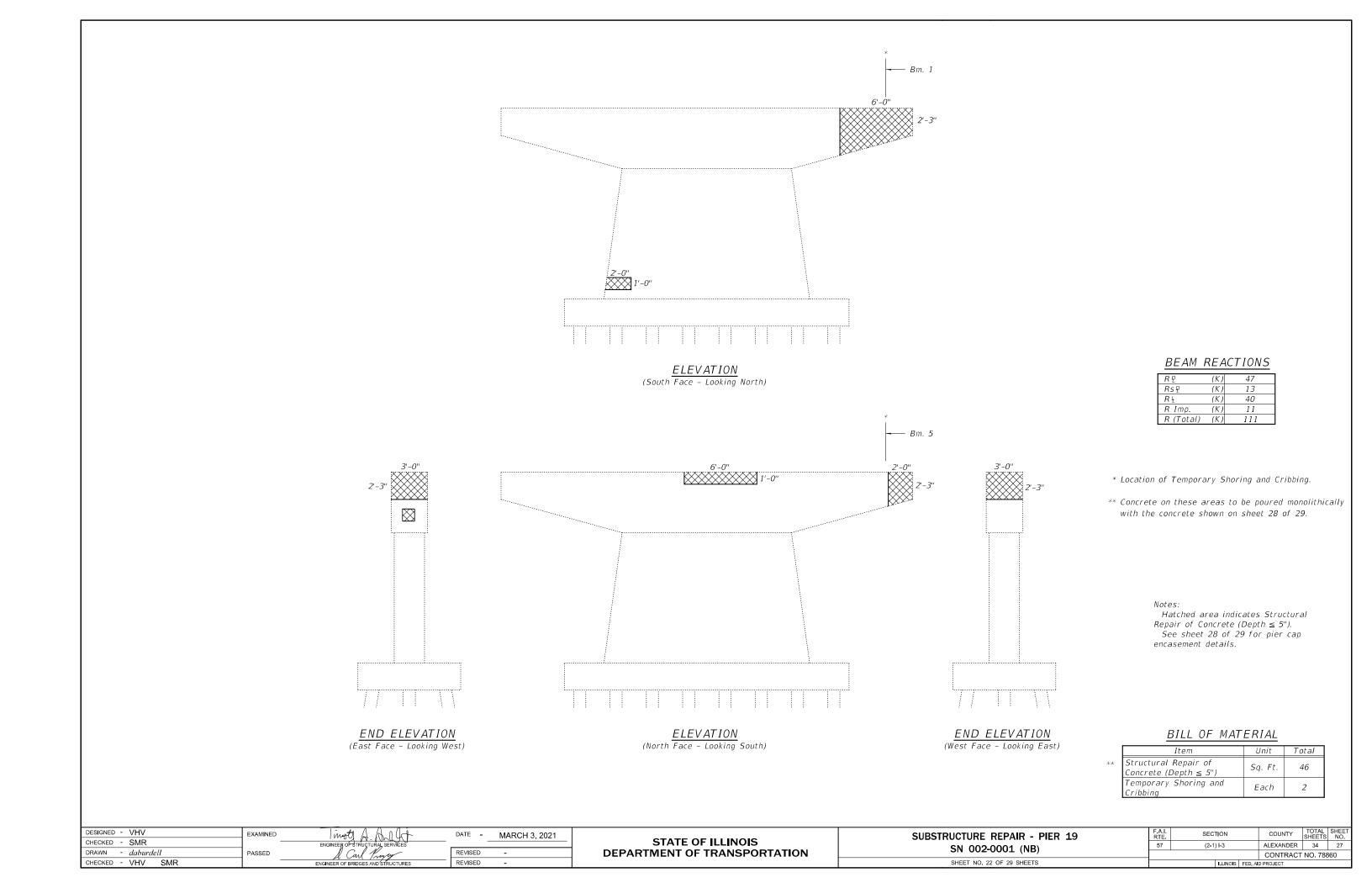


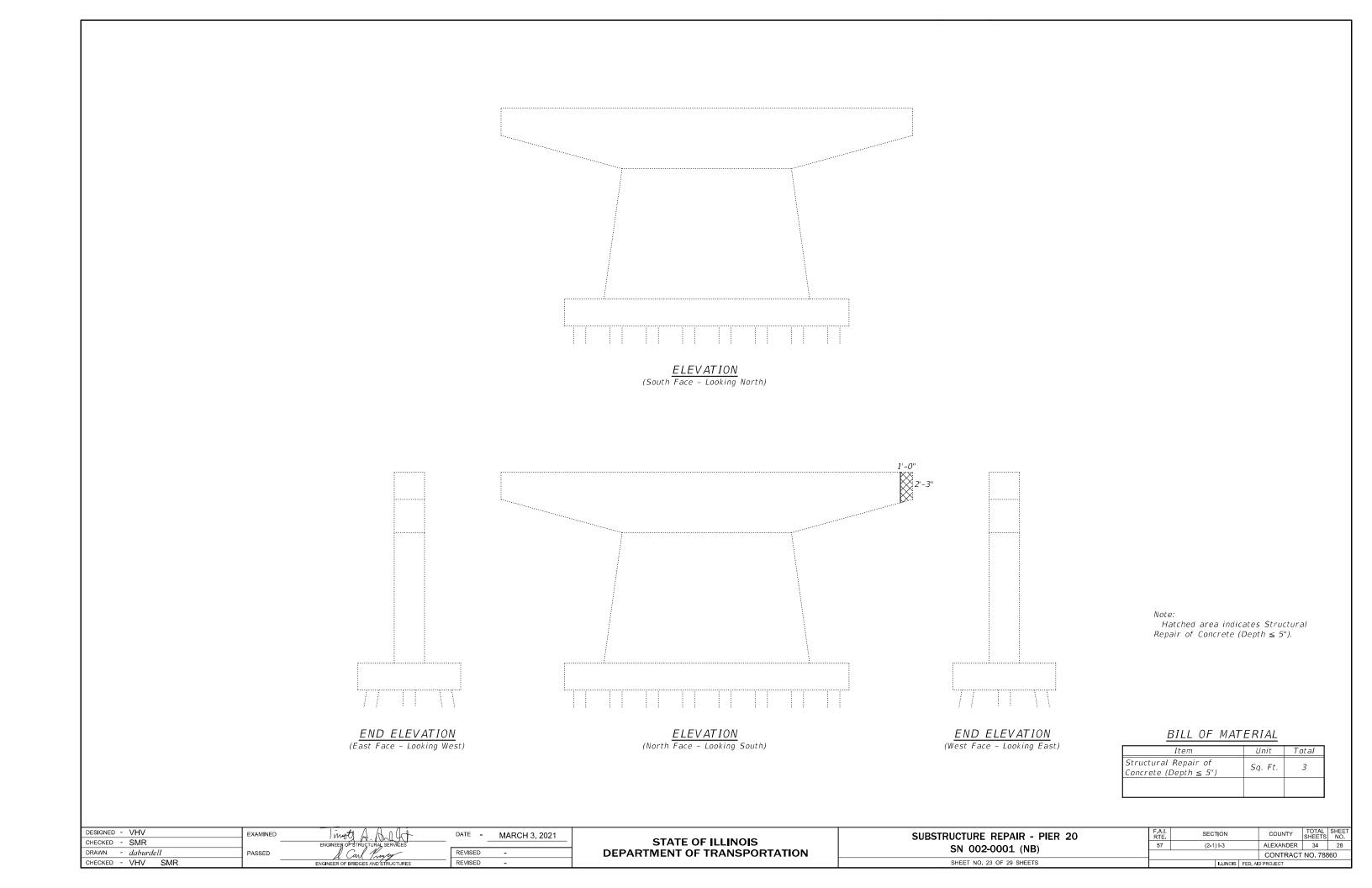


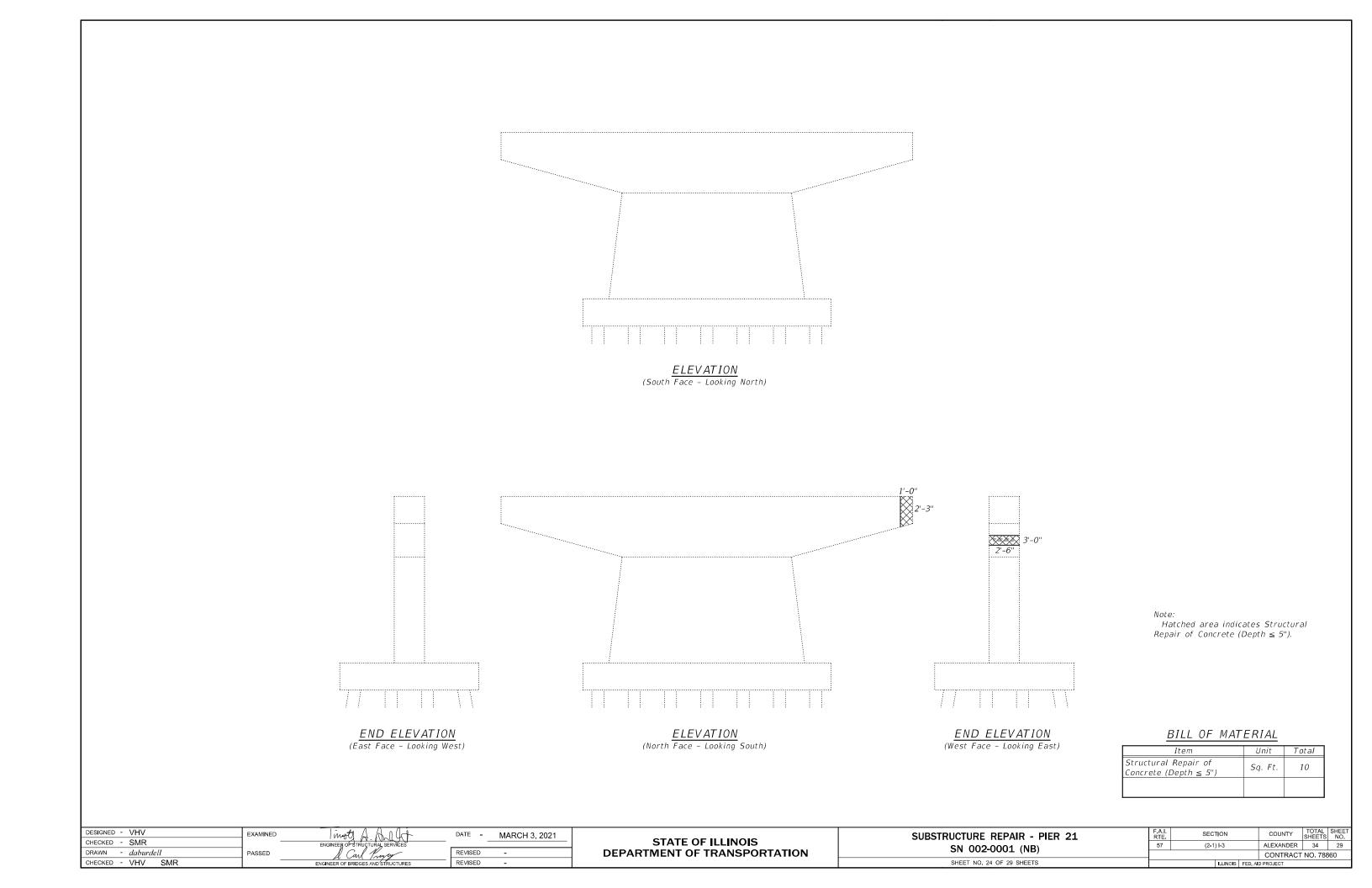


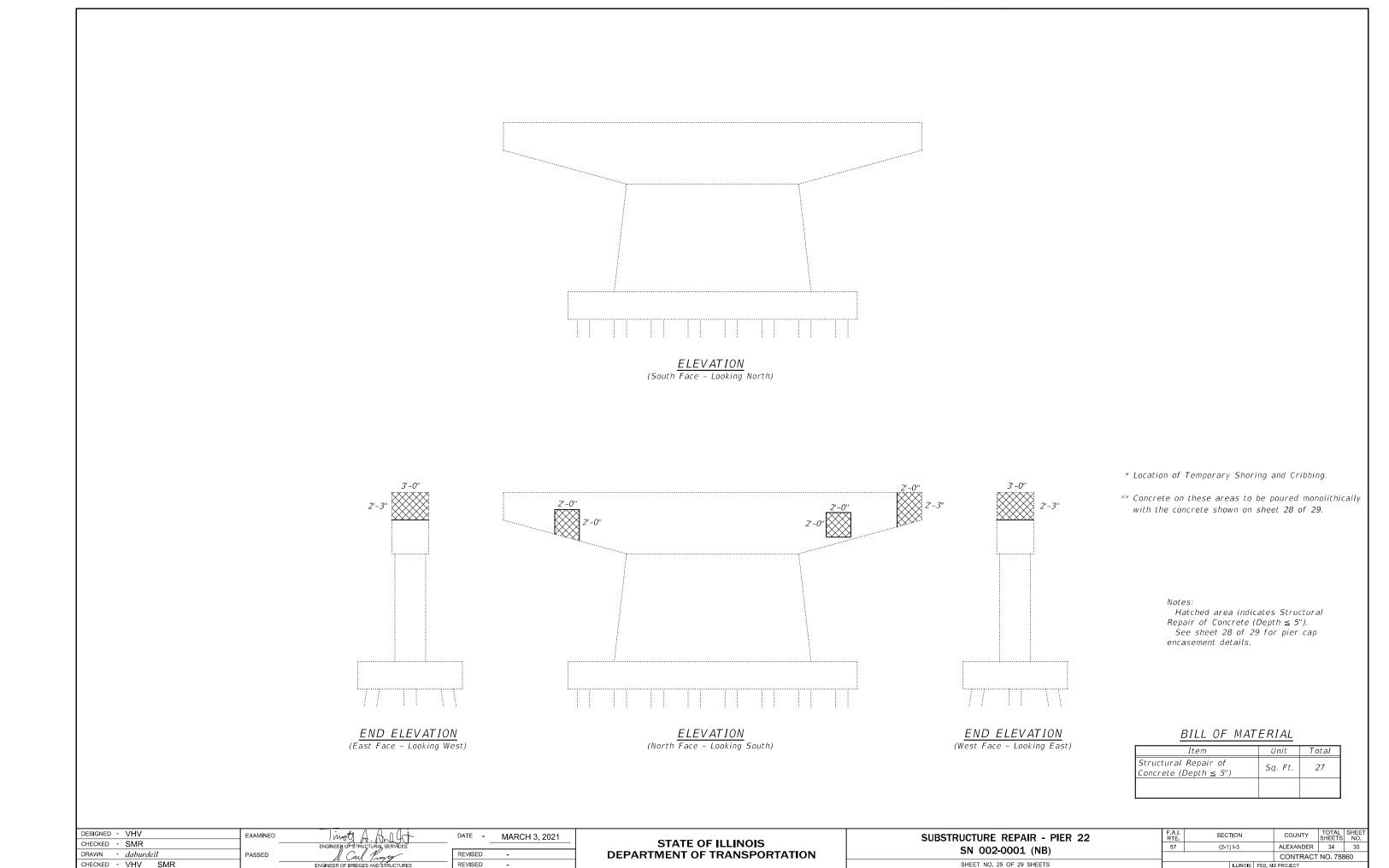


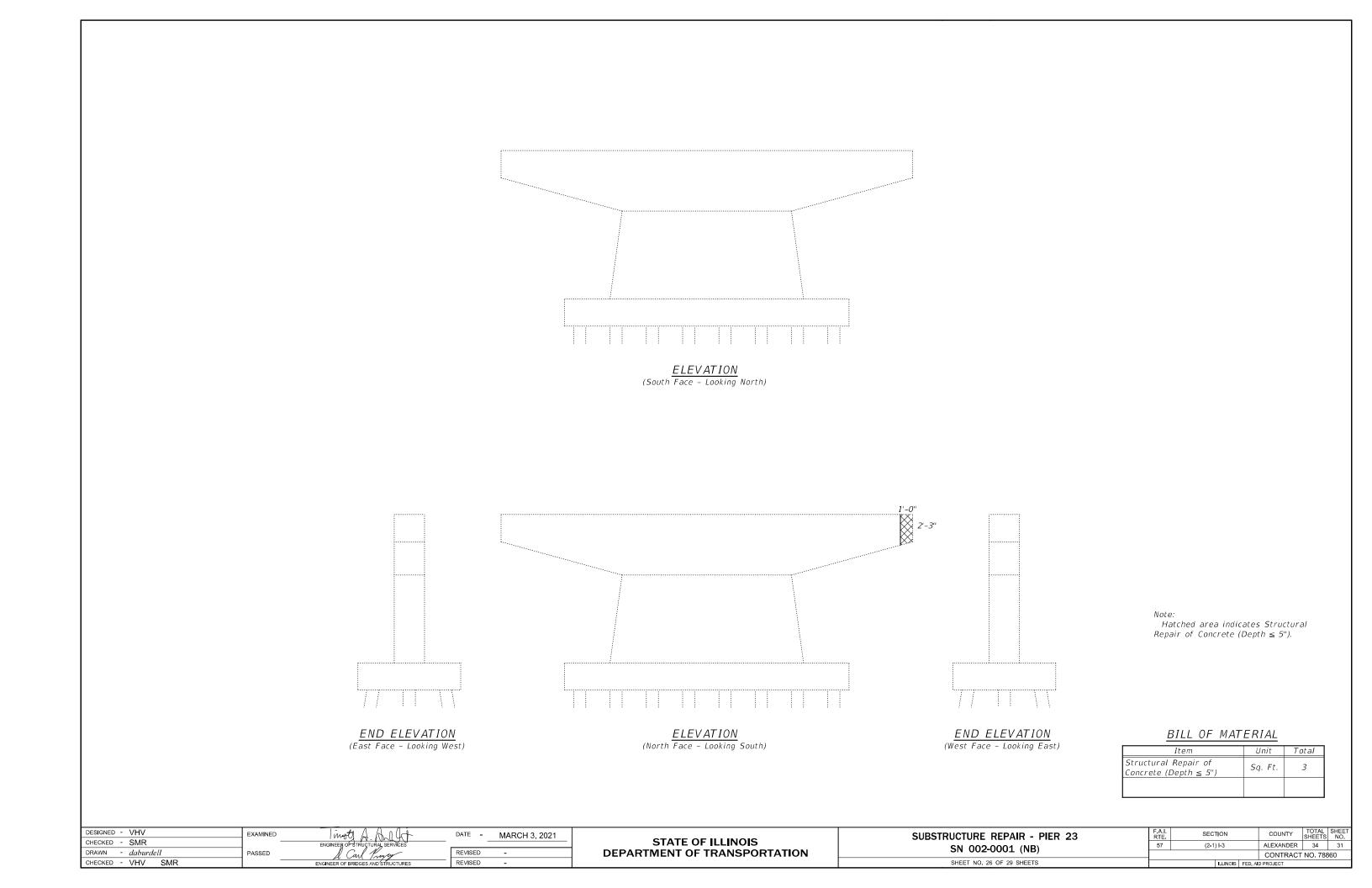


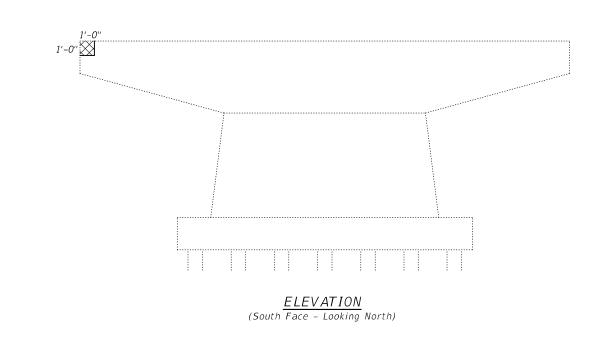


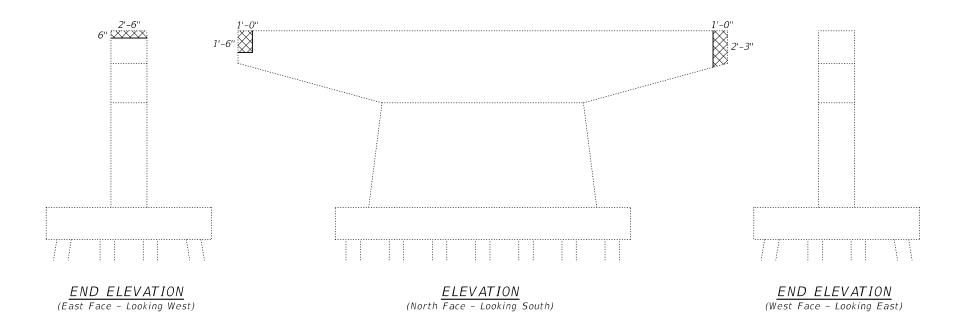










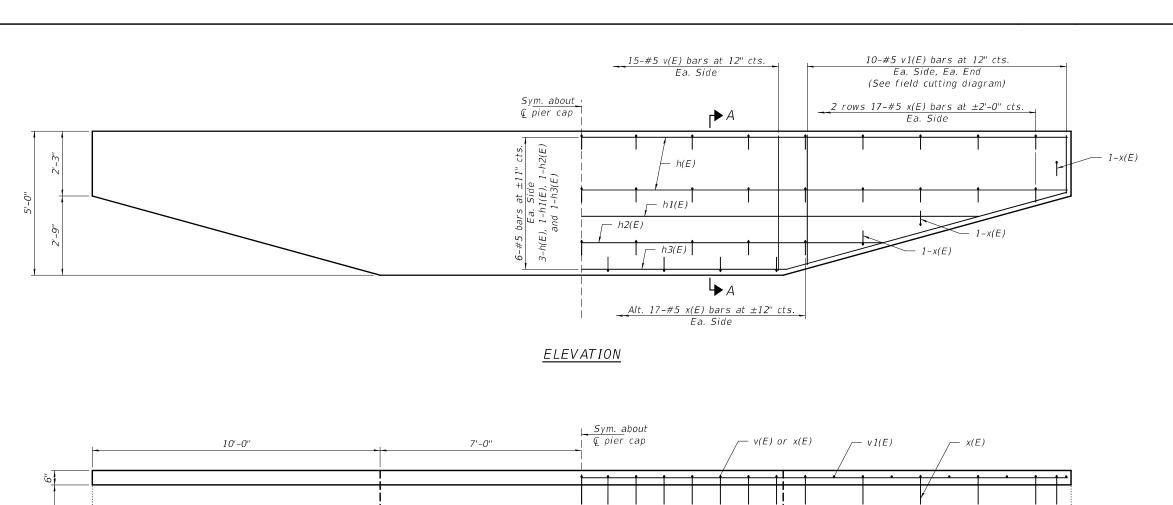


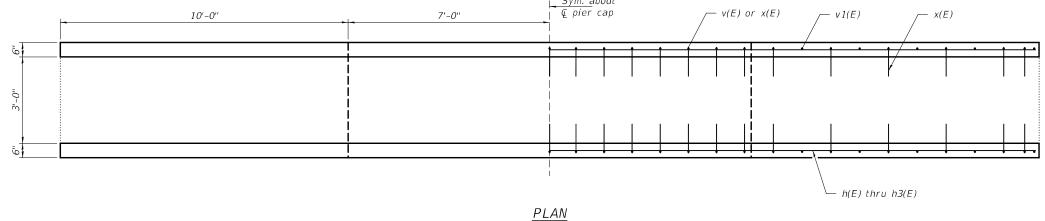
Note: Hatched area indicates Structural Repair of Concrete (Depth ≤ 5").

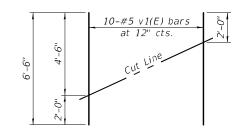
## BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth $\leq 5$ ")	Sq. Ft.	6

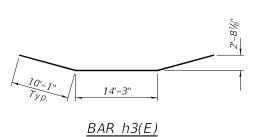
DESIGNED - VHV	EXAMINED	I mot A All It	DATE - MARCH 3, 2021	OTATE OF HANGIS	SUBSTRUCTURE REPAIR - PIER 24	F.A.I. RTE.	SECTION	COUNTY	TOTAL S	SHEET NO.
CHECKED - SMR	_	ENGINEER OF STRUCTURAL SERVICES		STATE OF ILLINOIS	SN 002-0001 (NB)	57	(2-1) I-3	ALEXANDER	34	32
DRAWN - daburdell	PASSED	d. Carl Kruney	REVISED -	DEPARTMENT OF TRANSPORTATION	3N 002-0001 (NB)	·		CONTRACT	NO. 7886	60
CHECKED - VHV SMR	_	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		SHEET NO. 27 OF 29 SHEETS		ILLINOIS FE	D. AID PROJECT		

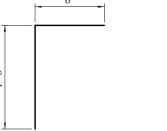






FIELD CUTTING DIAGRAM Order v1(E) full length. Cut as shown and use remainder of bars in opposite end.

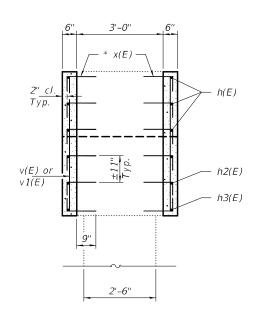




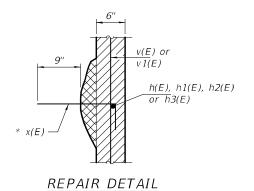
BAR x(E)

\* Epoxy grout n(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.

\*\* Concrete includes encasement shown on this sheet.



SEC A-A



Concrete in this area to be paid as Concrete Structures.

Concrete in this area is included with Structural Repair of Concrete (Depth  $\leq 5$ ").

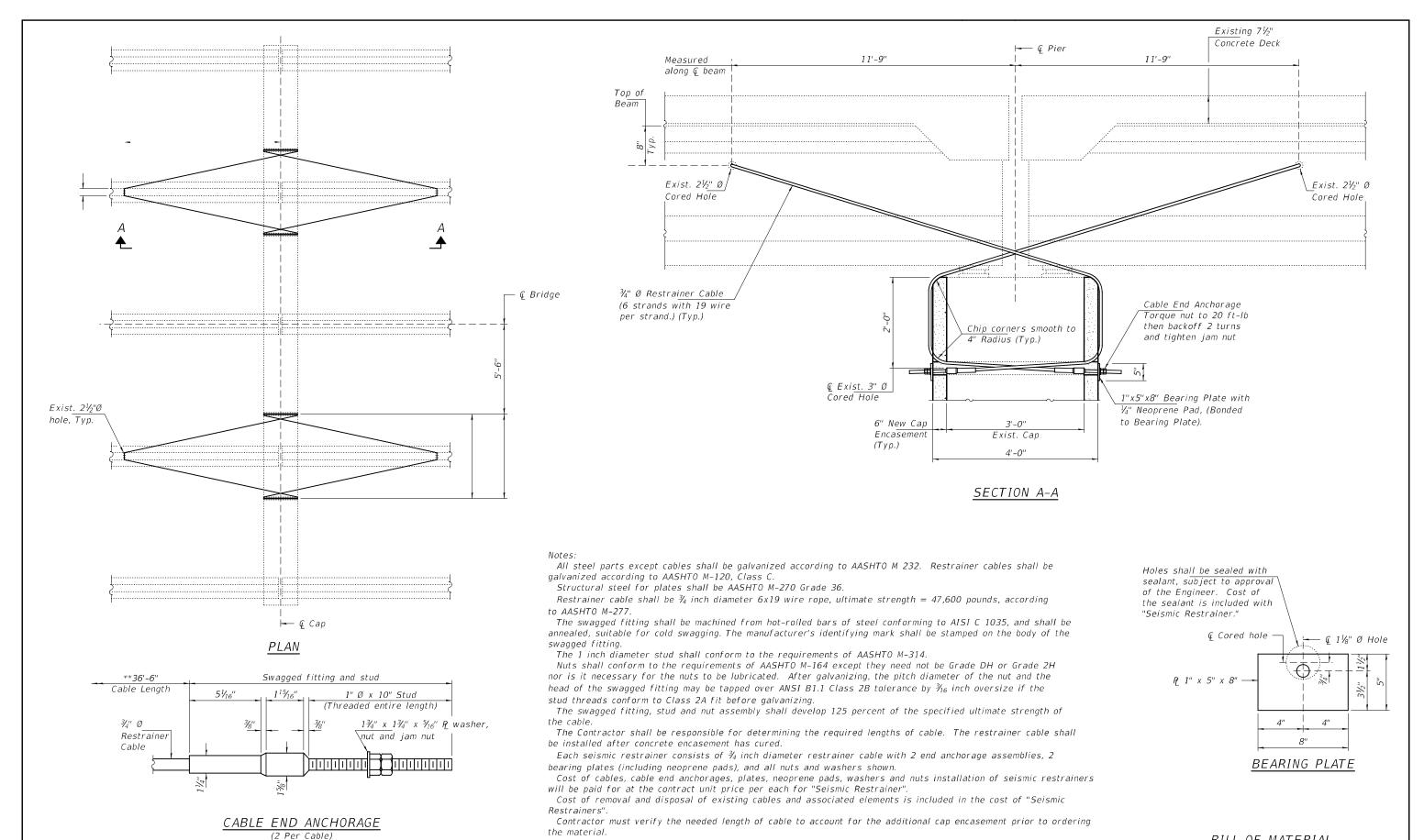
## BILL OF MATERIAL (PIERS 1, 4, 7, 10, 13, 16, 19 & 22)

В	ar	No.	Size	Length	Shape
h(	E)	48	#5	33'-8''	
h1	(E)	16	#5	27'-8''	
h2	(E)	16	#5	21'-0"	
h3	(E)	16	#5	34'-5"	
V(	E)	240	#5	4'-8''	
v 1	(E)	160	#5	6'-6"	
X(	E)	912	#5	1'-6"	
Conc	Concrete Structures Reinforcement Bars, Epoxy Coated			Cu. Yd.	43.5
Rein				Pound	6750
Epo>				roana	0730

DESIGNED	-	VHV	EXAMINED	I mote A A all	DATE -	MARCH 3, 2021	
CHECKED	-	SMR	-	ENGINEER OF STRUCTURAL SERVICES			1
DRAWN	-	daburdell	PASSED	d. Carl Prayer	REVISED	-	l
CHECKED	-	VHV SMR		ENGINEER OF BRIDGES AND STRUCTURES	REVISED	_	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	_				
PIER ENCASEMENT DETAILS (PIERS 1, 4, 7, 10, 13, 16, 19 & 22)	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SN 002-0001 (NB)	57	(2-1) I-3	ALEXANDER	34	33
3N 002-0001 (NB)			CONTRACT	NO. 788	360
SHEET NO. 28 OF 29 SHEETS		ILLINOIS EED AL	D BBO JECT		



## BILL OF MATERIAL

Item	Unit	Total
Seismic Restrainer	Each	32

to determine actual length.

DESIGNED - VHV EXAMINED MARTIN A NORTH AND NORT

PASSED

CHECKED - SMR

DRAWN - daburdell

CHECKED - VHV SMR

\*\* Estimated. Contractor required

ΞD	I mot A. Allt	DATE -	MARCH 3, 2021
	ENGINEER OF STRUCTURAL SERVICES		
	d. Carl Proper	REVISED	-
	ENGINEER OF BRIDGES AND STRUCTURES	REVISED	_

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SEISMIC CABLE DETAILS SN 002-0001 (NB) SHEET NO. 29 OF 29 SHEETS

I.I.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
7	(2-1) I-3			ALEXANDER	34	
			CONTRACT NO. 78860			
ILLINOIS FED. AI			D PROJECT			