

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 TYPICAL SECTIONS
- 5 TRAFFIC CONTROL AND PROTECTION (SPECIAL)
- 6 REMOVAL PLAN S.N. 032-5416
- 7 PLAN AND PROFILE S.N. 032-5416
- 8 REMOVAL PLAN S.N. 032-5551
- 9 PLAN AND PROFILE S.N. 032-5551
- 10 GENERAL PLAN AND ELEVATION S.N. 032-5416
- 11 SUPERSTRUCTURE S.N. 032-5416
- 12 PRECAST BEAM DETAILS SPANS 1 & 3 S.N. 032-5416
- 13 PRECAST BEAM DETAILS SPAN 2 S.N. 032-5416
- 14 STEEL RAILING, TYPE S1 S.N. 032-5416
- 15-24 EXISTING PLANS S.N. 032-5416
- 25 GENERAL PLAN AND ELEVATION S.N. 032-5551
- 26 SUPERSTRUCTURE S.N. 032-5551
- 27 PRECAST BEAM DETAILS S.N. 032-5551
- 28 STEEL RAILING, TYPE S1 S.N. 032-5551
- 29 STRUCTURAL REPAIR OF CONCRETE S.N. 032-5551
- 30-38 EXISTING PLANS S.N. 032-5551

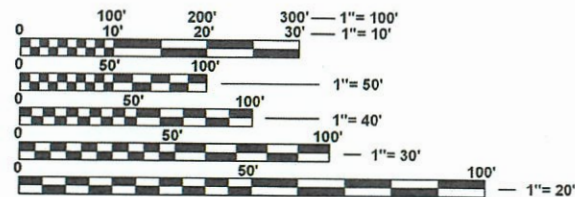
UTILITIES

AT&T
1000 COMMERCE DRIVE
OAKBROOK, IL 60523
TOM LASKOWSKI
(630) 573-5643

COMED
2 LINCOLN CENTER
OAKBROOK TERRACE, IL 60181
KYLE ISEK
(630) 576-7094

FUNCTIONAL CLASSIFICATION

MAJOR COLLECTOR
DESIGN SPEED: 55 MPH
ADT: 800 (2024) JOHNNY RUN
ADT: 1000 (2024) WEST FORK MAZON RIVER



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD 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.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

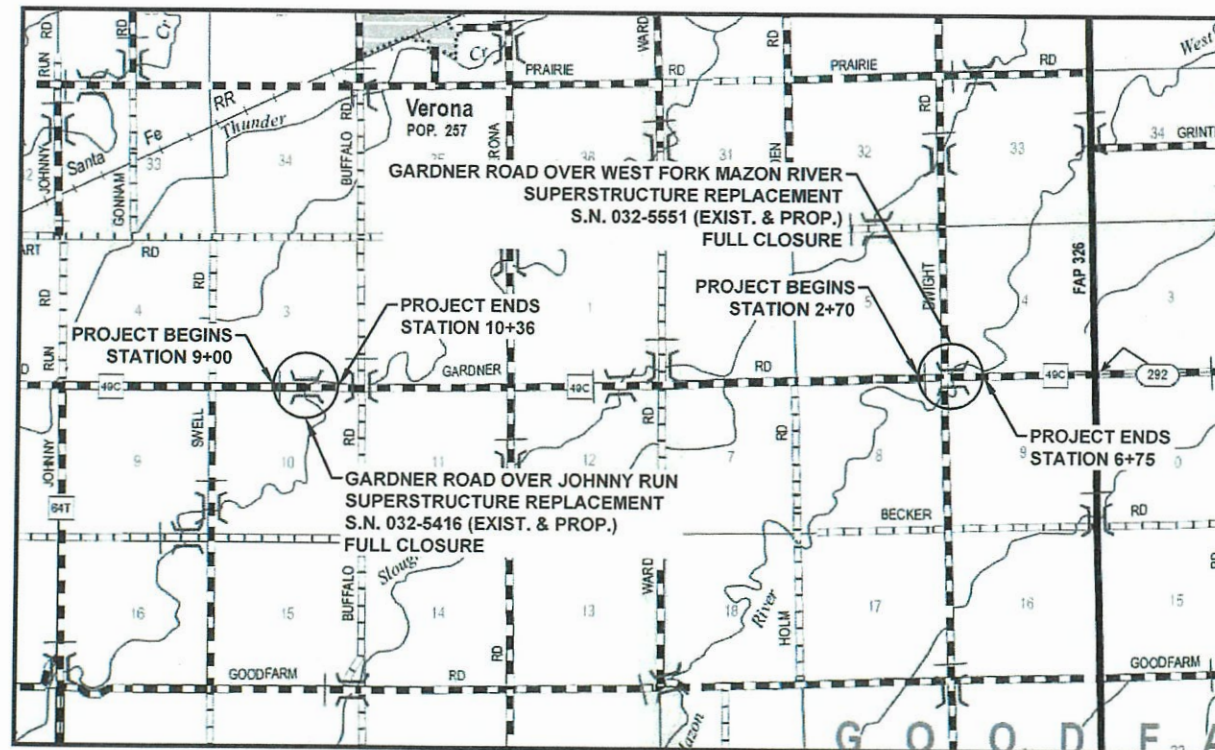
CONTRACT NO. 87849



Chamlin & Associates

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED FEDERAL AID PROJECT LOCAL BRIDGE FORMULA PROGRAM

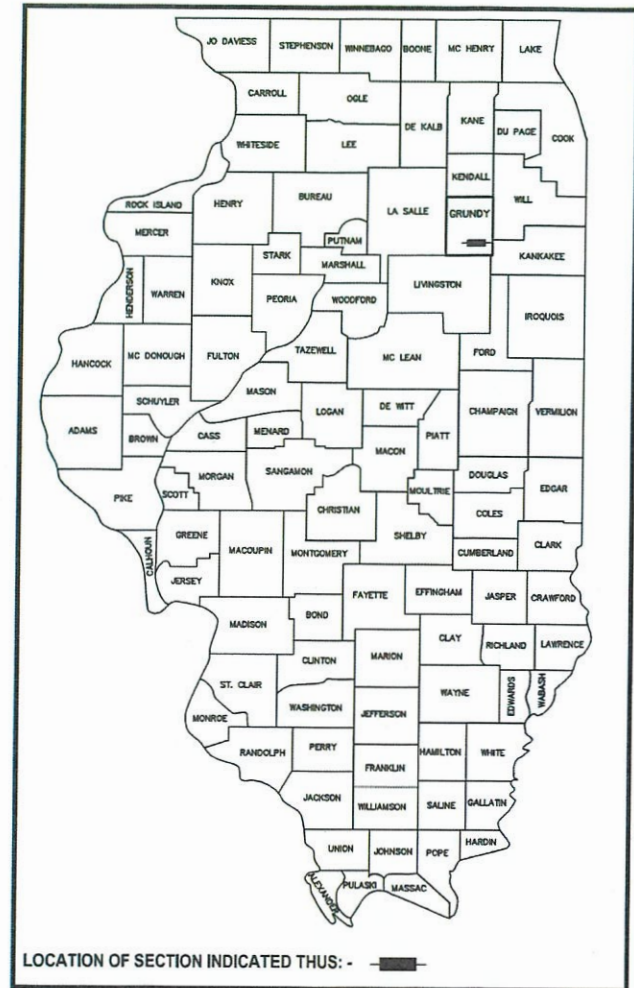
GARDNER ROAD (FAS 292) OVER WEST FORK MAZON RIVER
GARDNER ROAD (FAS 292) OVER JOHNNY RUN
SECTION 19-00176-00-BR
PROJECT QTBJ(204)
GRUNDY COUNTY
C-93-003-25



LOCATION SKETCH
NOT TO SCALE

GROSS LENGTH = 22,605 FEET = 4.281 MILES
NET LENGTH = 541 FEET = 0.102 MILES

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	19-00176-00-BR	GRUNDY	38	1
		ILLINOIS	CONTRACT NO. 87849	



LOCATION OF SECTION INDICATED THUS: -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED 04/09/24
Eric Hall
LOCAL AGENCY OFFICIAL
April 12 2024
DISTRICT 3 LOCAL ROADS AND STREETS ENGINEER
Trisha Thompson
REGION 2 ENGINEER
RELEASED FOR BID
BASED ON
LIMITED
REVIEW

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

CHAMLIN & ASSOCIATES, INC. © 2024
Drawing Name: H:\ADCE\1111598-00 GRUNDY CO HWY GARDNER RD BRIDGES\CAD\PLANS\002-GENERAL NOTES.dwg
Last Modified: Wednesday, April 3, 2024 2:22:24 PM
Plotted On: Thursday, April 4, 2024 10:03:09 AM

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	19-00176-00-BR	GRUNDY	38	2
		ILLINOIS	CONTRACT NO. 87849	

- General Notes
- The thickness of HMA shown on the plans is the nominal thickness. Deviations from the nominal thickness will be permitted when such deviations occur due to irregularities in the existing surface or base on which the HMA is placed.
 - Except as noted on plans, pavement grades shown are at the top of pavement surfaces.
 - The Engineer will be the sole judge concerning curing time for the various HMA lifts.
 - For stabilization, all Type III barricades will require a minimum of eight (8) sandbags per barricade.
 - All elevations referring to U.S.G.S. Mean Sea Level Datum.
 - Abandoned underground utilities that conflict with construction shall be disposed of outside the limits of the Right of Way according to Article 202.03 of the Standard Specifications and as directed by the Engineer. This work will be not be paid for separately, but will be included in the cost of Earth Excavation.
 - Any reference to a Standard in these Plans shall be interpreted to mean the Edition as indicated by the subnumber shown in the list of Standards or the copy included in these Plans.
 - The following rates of application have been used in calculating plan quantities:

Granular Materials	2.05	tons/cu yd
HMA Surfacing	112	lbs/sq yd/in
 - Members of J.U.L.I.E. known to be within the limits of the improvements are:
ComEd
AT&T
 - The Contractor shall contact J.U.L.I.E. at least 48 hours prior to excavation to determine which utilities are in the area.
 - The intent of schedule considers all locations to be worked at the same time. Full closure at each bridge; no staging.
 - Project start date will be determined by precast concrete bridge slab delivery date.
 - Paint pavement markings shall match existing.
 - HMA surface removal shall be performed to achieve proposed profile alignment for S.N. 032-5551 location.

STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
515001-04	NAME PLATE FOR BRIDGES
701901-09	TRAFFIC CONTROL DEVICES
BLR 21-9	TYPICAL APPLICATIONS OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 22-7	TYPICAL APPLICATIONS OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO-LANE TWO WAY RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC)

HMA MIXTURE REQUIREMENT TABLE		
LOCATIONS:	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USE(S):	HMA BINDER COURSE	HMA SURFACE COURSE
BINDER GRADE (PG):	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL-19.0	IL-9.5
FRICTION AGGREGATE:		MIXTURE C
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA
SUBLOT SIZE:	N/A	N/A
DENSITY TEST METHOD:	NUCLEAR	NUCLEAR
MATERIAL TRANSFER DEVICE (REQUIRED):	NO	NO

DRAWN BY: KED	REVISIONS			
CHECKED BY: DAH	LEVEL	BY	DATE	DESCRIPTION
DATE: 02/2024				



PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

FAS 292 GARDNER ROAD
SECTION 19-00176-00-BR
GRUNDY COUNTY

GENERAL NOTES

BID SET

CURRENT AS OF: 04/05/2024		
SCALE: AS NOTED	SHEET	2
FILE NO.: 111598.00 Y-	OF	38

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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	19-00176-00-BR	GRUNDY	38	3
		ILLINOIS	CONTRACT NO. 87849	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE		CONSTR. CODE	
				STP-Br		STP-Br	
				Fed 80%	Local 20%	Fed 80%	Local 20%
				BRIDGE		BRIDGE	
				0013		0013	
				032-5416		032-5551	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	195	136		59	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	195	136		59	
* 40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	439	306		133	
* 40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	199	31		168	
* 40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	79	55		24	
* 40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	159	36		123	
44000100	PAVEMENT REMOVAL	SQ YD	195	136		59	
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	2	1		1	
50400105	PRECAST CONCRETE BRIDGE SLAB	SQ FT	5806	2573		3233	
51500100	NAME PLATES	EACH	2	1		1	
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	645	286		359	
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	1354	600		754	
67100100	MOBILIZATION	L SUM	1	0.5		0.5	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2062	442		1620	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	30	0		30	
* X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	693	0		693	
X5091734	BRIDGE RAILING ERECTION	FOOT	388	172		216	
* X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	0.5		0.5	
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5		0.5	

* Denotes Specialty Item

DRAWN BY: KED	REVISIONS			
CHECKED BY: DAH	LEVEL	BY	DATE	DESCRIPTION
DATE: 02/2024				



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OTTAWA MENDOTA
ILLINOIS

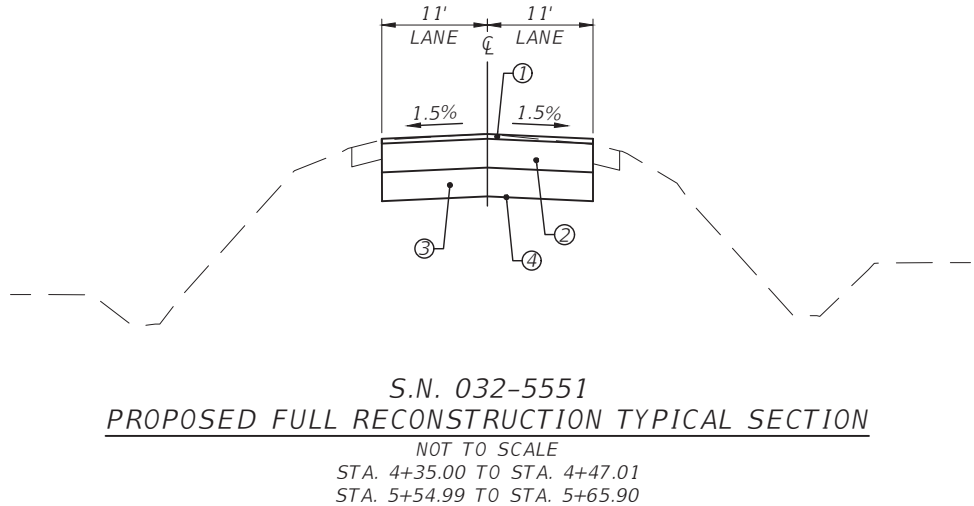
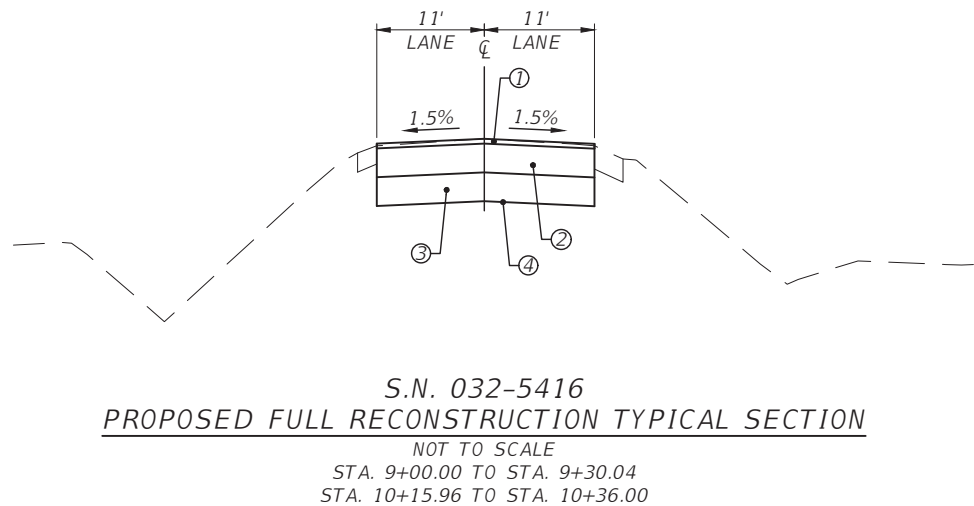
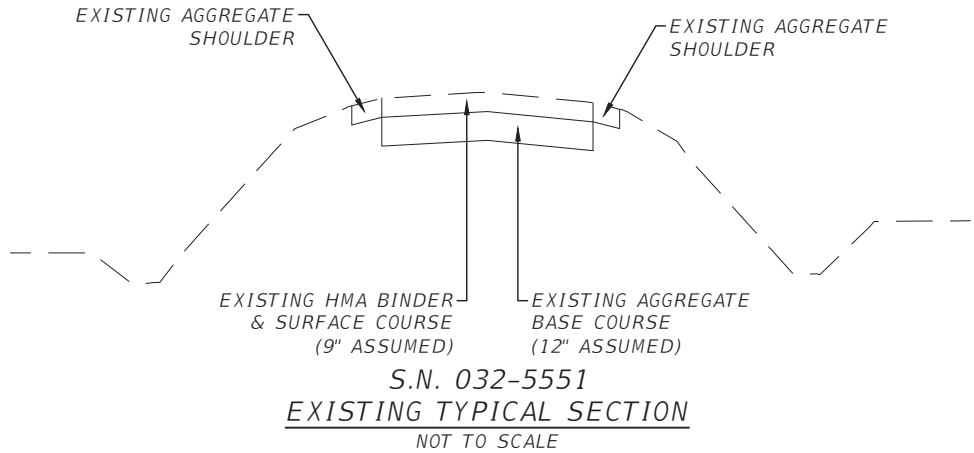
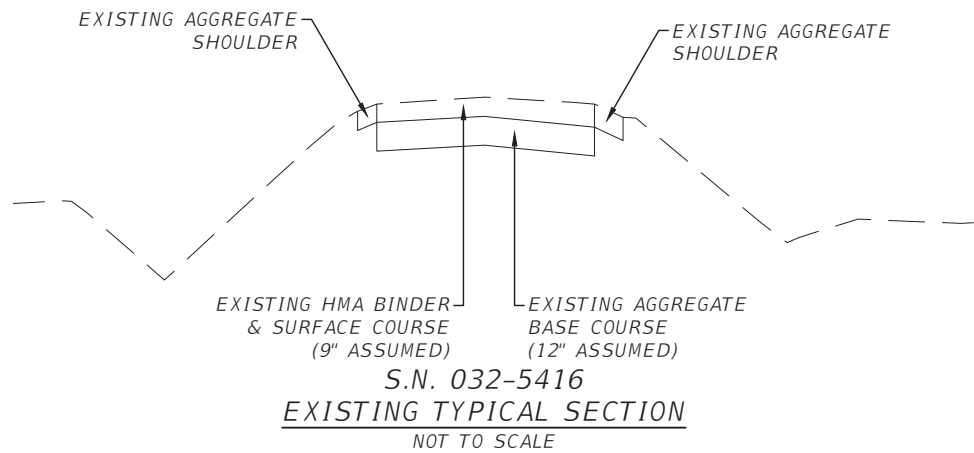
FAS 292 GARDNER ROAD
SECTION 19-00176-00-BR
GRUNDY COUNTY

SUMMARY OF QUANTITIES

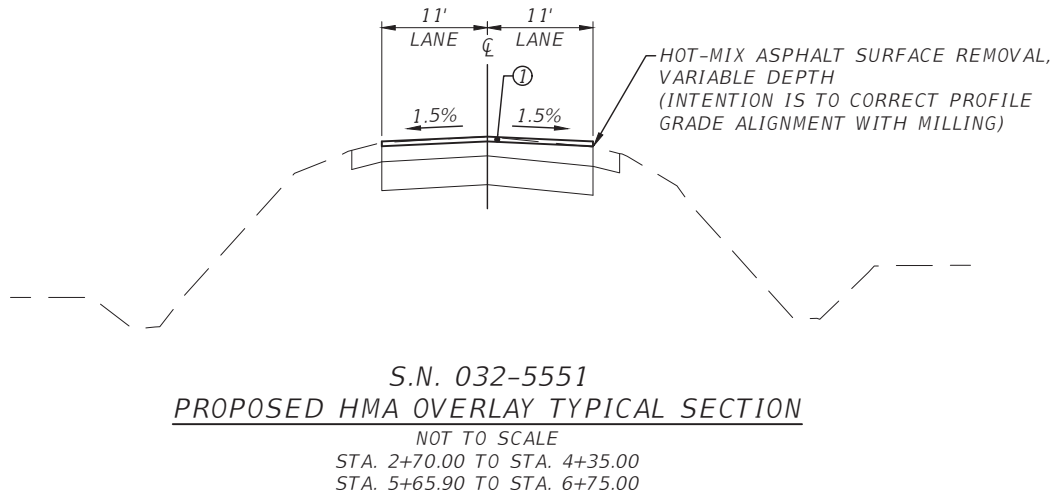
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CURRENT AS OF: 04/05/2024		
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FILE NO.: 111598.00 Y-	OF 38	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	19-00176-00-BR	GRUNDY	38	4
		ILLINOIS	CONTRACT NO. 87849	



- LEGEND:
- ① HMA SURFACE COURSE, IL-9.5, MIX 'C', N50, 2"
 - ② HMA BINDER COURSE, IL-19.0, N50, 7" (2 LIFTS)
 - ③ AGGREGATE SUBGRADE IMPROVEMENT, 12"
 - ④ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION



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DATE: 02/2024				



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ILLINOIS

FAS 292 GARDNER ROAD
SECTION 19-00176-00-BR
GRUNDY COUNTY

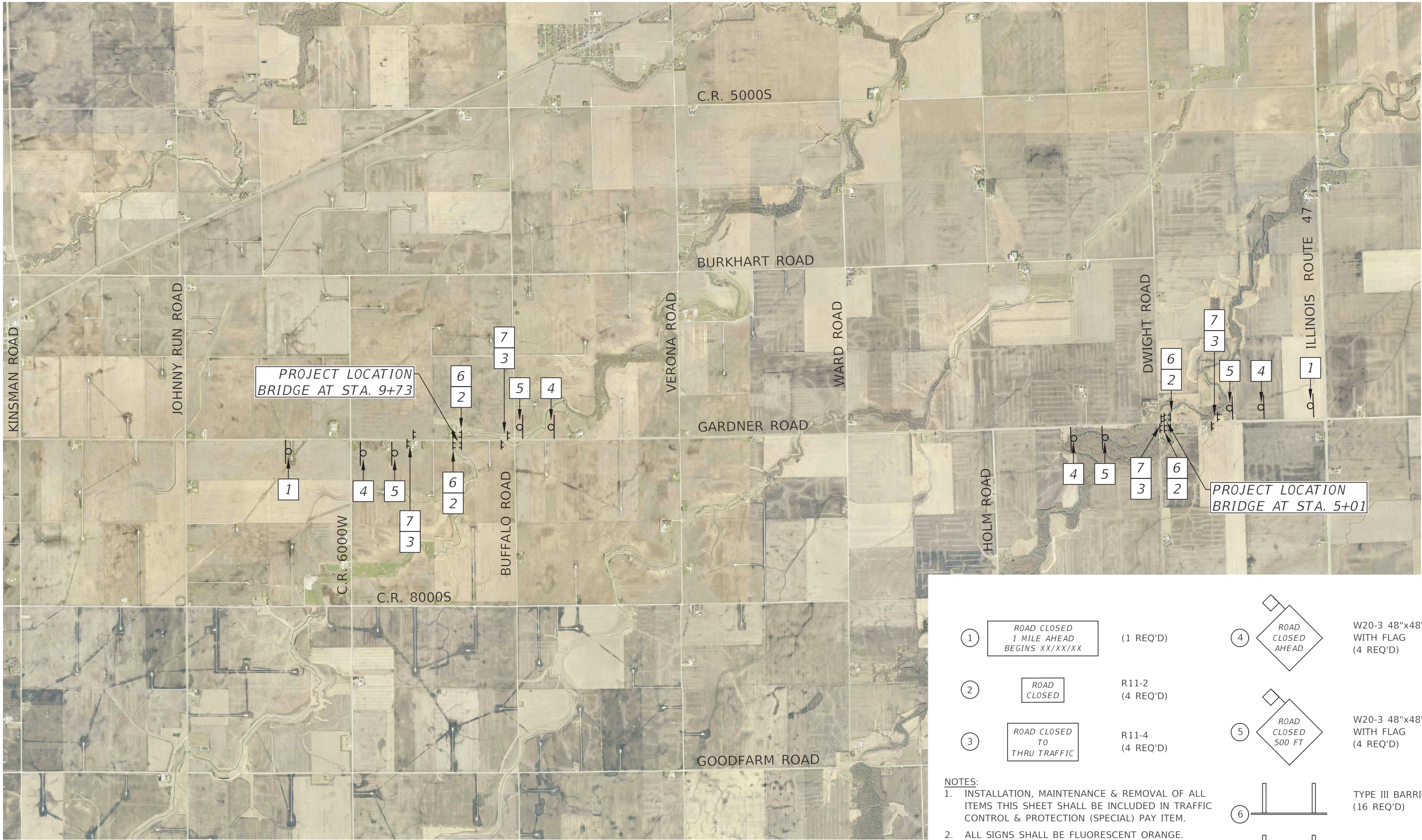
TYPICAL SECTIONS

BID SET

CURRENT AS OF: 04/05/2024	
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FILE NO.: 111598.00 Y-	OF 38

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	19-00176-00-BR	GRUNDY	38	5
		ILLINOIS	CONTRACT NO. 87849	

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Last Modified: Wednesday, April 3, 2024 2:39:54 PM
Plotted On: Thursday, April 4, 2024 10:03:36 AM



①

ROAD CLOSED
1 MILE AHEAD
BEGINS XX/XX/XX

(1 REQ'D)

②

ROAD
CLOSED

R11-2
(4 REQ'D)

③

ROAD CLOSED
TO
THRU TRAFFIC

R11-4
(4 REQ'D)

④

ROAD
CLOSED
AHEAD

W20-3 48"x48"
WITH FLAG
(4 REQ'D)

⑤

ROAD
CLOSED
500 FT

W20-3 48"x48"
WITH FLAG
(4 REQ'D)

⑥

TYPE III BARRICADES

(16 REQ'D)

⑦

TYPE III BARRICADES
(8 REQ'D - OFFSET)

- NOTES:
- INSTALLATION, MAINTENANCE & REMOVAL OF ALL ITEMS THIS SHEET SHALL BE INCLUDED IN TRAFFIC CONTROL & PROTECTION (SPECIAL) PAY ITEM.
 - ALL SIGNS SHALL BE FLUORESCENT ORANGE.

DRAWN BY: KED	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: DAH				
DATE: 02/2024				



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ILLINOIS

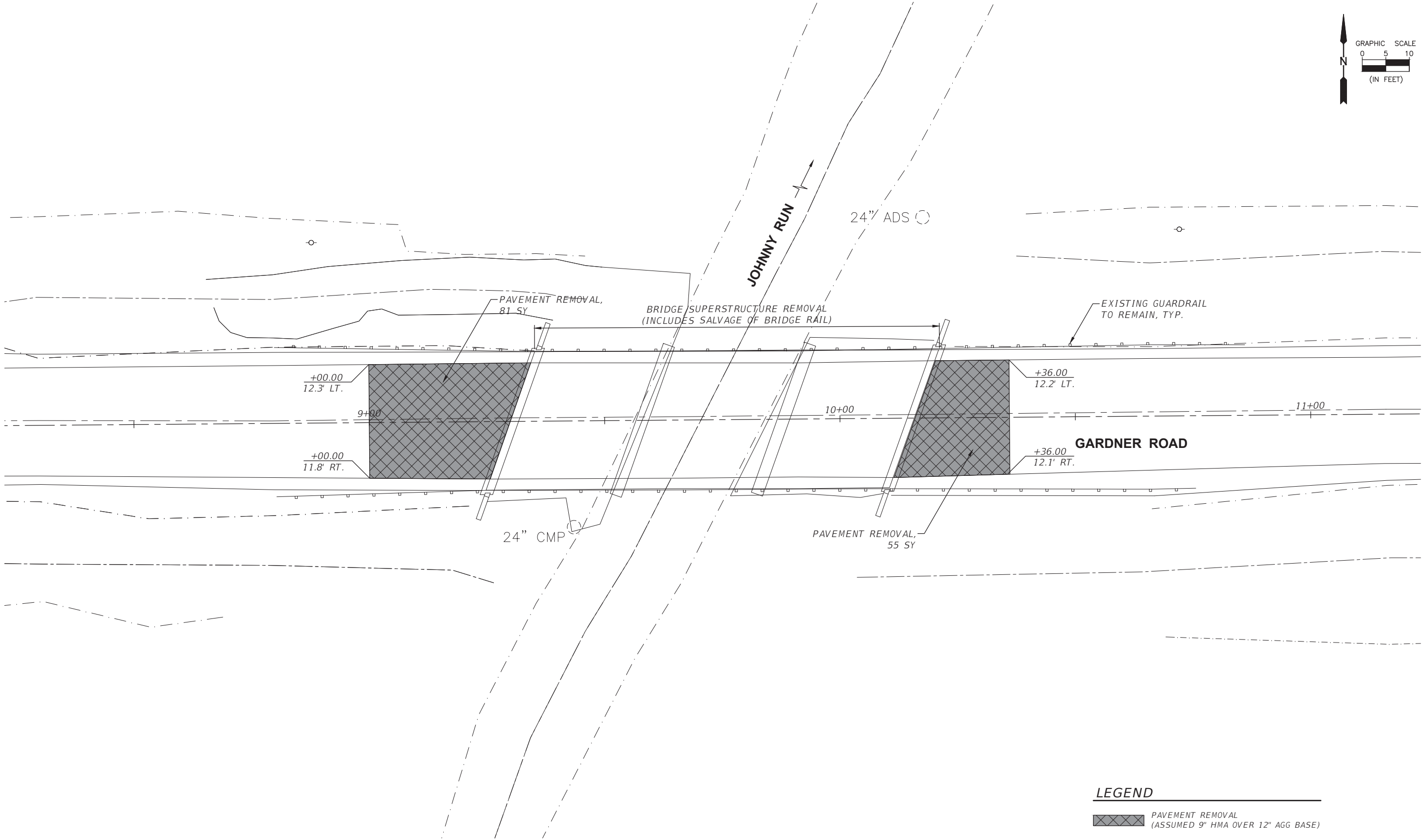
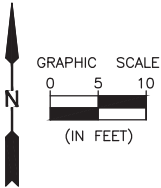
FAS 292 GARDNER ROAD
SECTION 19-00176-00-BR
GRUNDY COUNTY

TRAFFIC CONTROL AND
PROTECTION (SPECIAL)

BID SET

CURRENT AS OF: 04/05/2024	
SCALE: AS NOTED	SHEET 5
FILE NO.: 111598.00 Y-	OF 38

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	19-00176-00-BR	GRUNDY	38	6
		ILLINOIS	CONTRACT NO. 87849	



LEGEND

PAVEMENT REMOVAL
(ASSUMED 9" HMA OVER 12" AGG BASE)

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Drawing Name: H:\AD08\1111598-00 GRUNDY CO HWY GARDNER RD BRIDGES\CAD\PLANS\008-REMOVAL 5416.dwg Last Modified: Wednesday, April 3, 2024 4:00:20 PM Plotted On: Friday, April 5, 2024 12:16:48 PM

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DATE: 02/2024				



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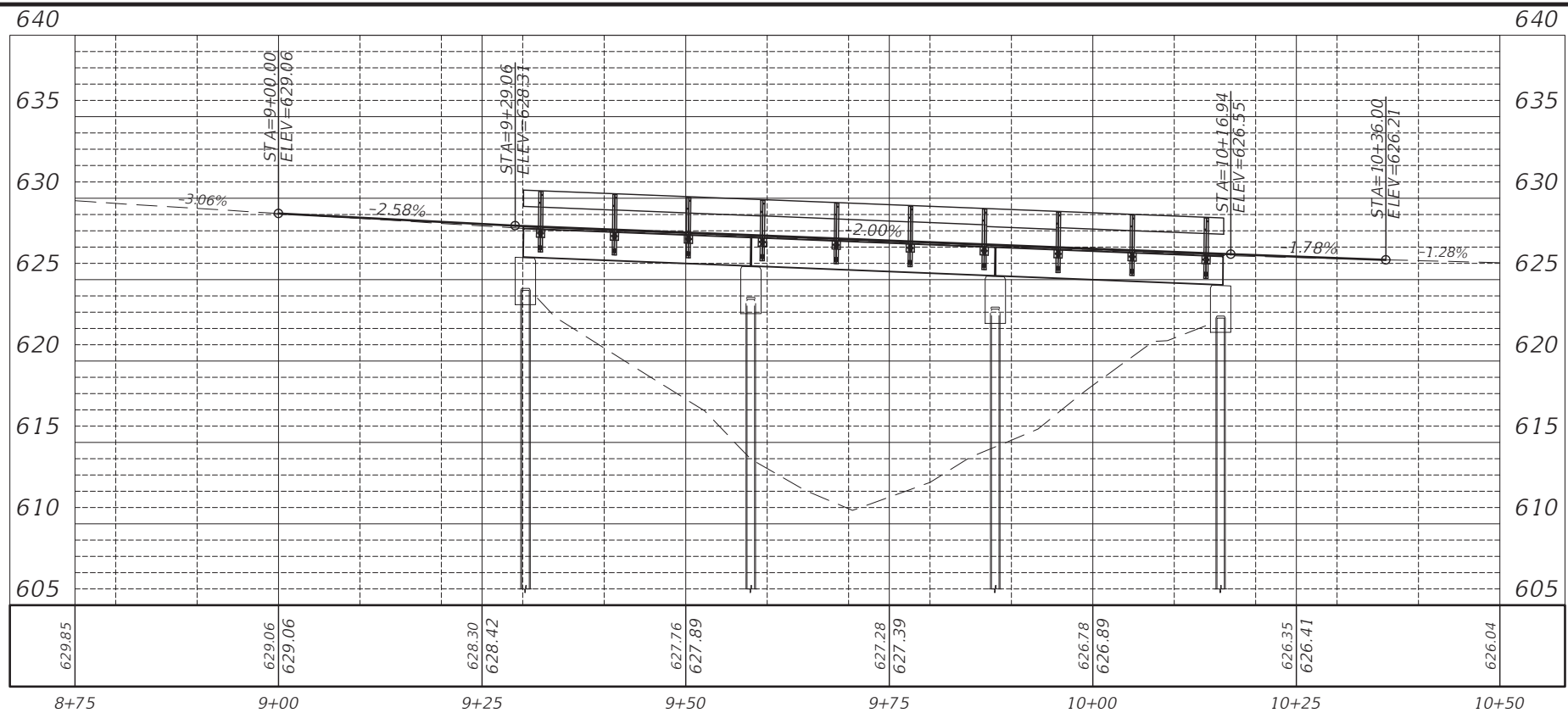
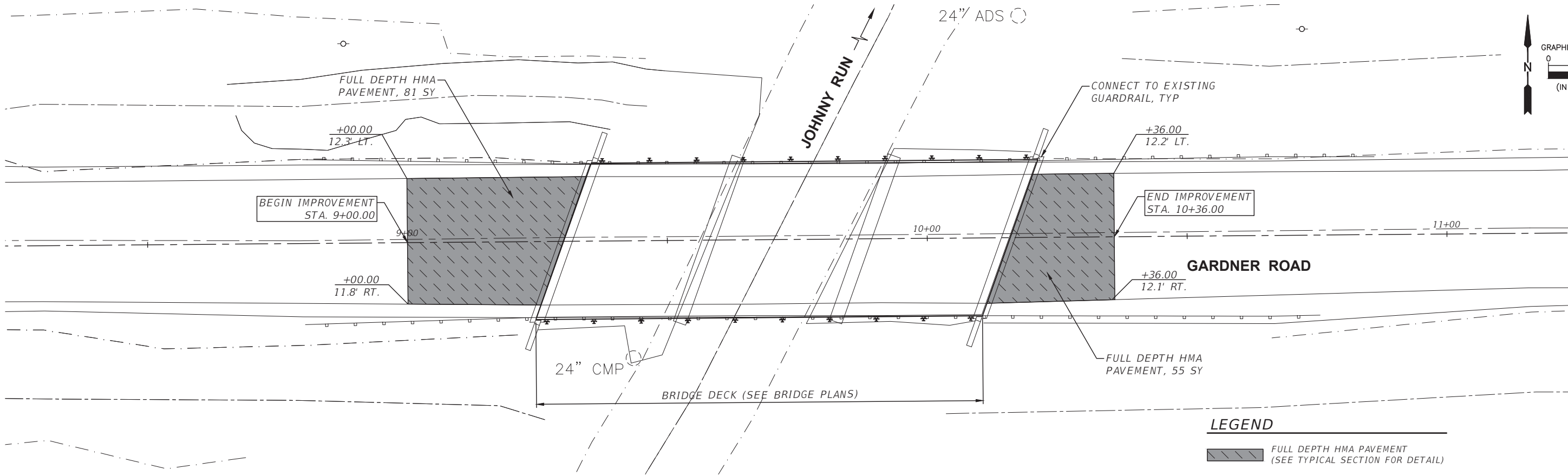
FAS 292 GARDNER ROAD
SECTION 19-00176-00-BR
GRUNDY COUNTY

REMOVAL PLAN
S.N. 032-5416 (E)(P)

BID SET

CURRENT AS OF: 04/05/2024	
SCALE: AS NOTED	SHEET 6
FILE NO.: 111598.00 Y-	OF 38

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	19-00176-00-BR	GRUNDY	38	7
		ILLINOIS	CONTRACT NO. 87849	



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DATE: 02/2024				



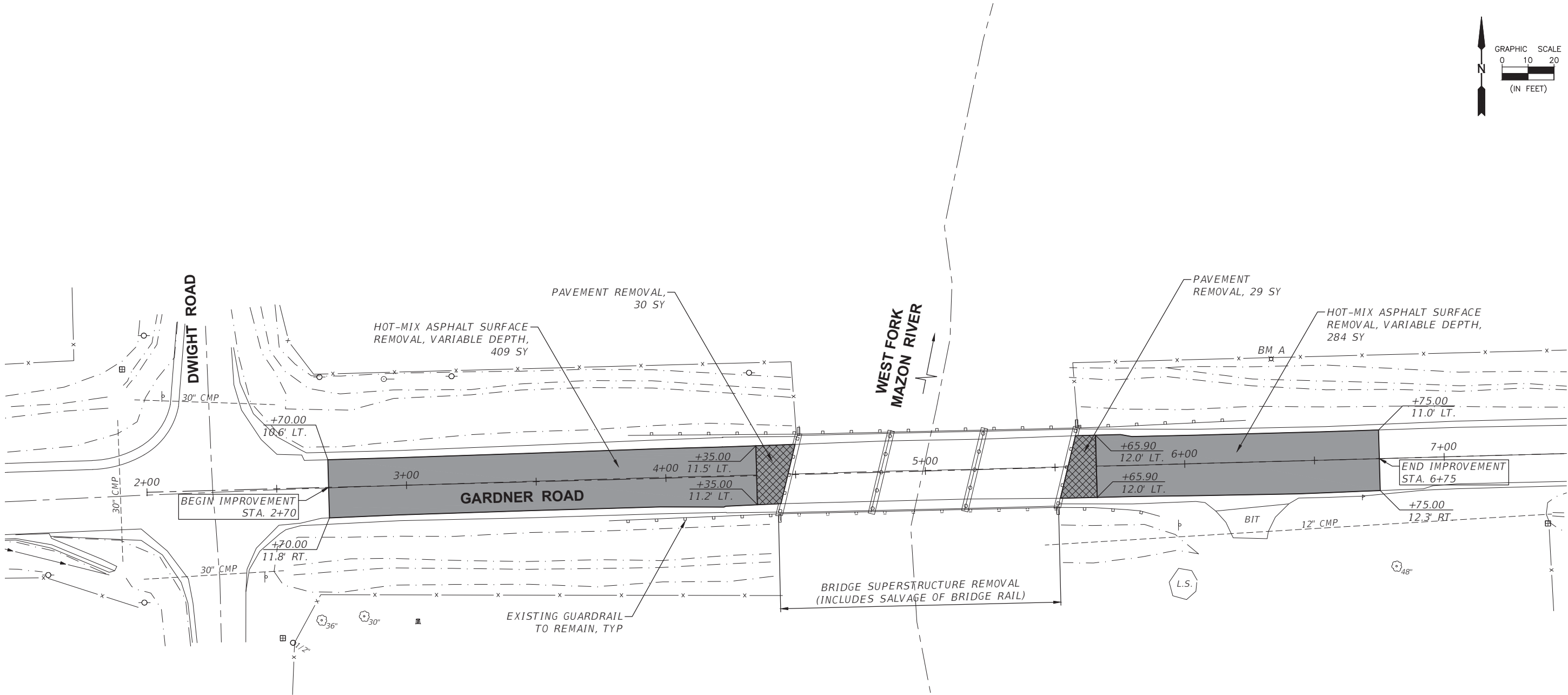
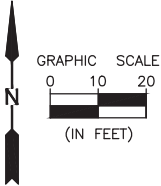
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OTTAWA MENDOTA
ILLINOIS

FAS 292 GARDNER ROAD
SECTION 19-00176-00-BR
GRUNDY COUNTY

PLAN AND PROFILE
S.N. 032-5416 (E)(P)

BID SET	CURRENT AS OF: 04/05/2024		
	SCALE: AS NOTED	SHEET	7
	FILE NO.: 111598.00 Y-	OF	38

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	19-00176-00-BR	GRUNDY	38	8
		ILLINOIS	CONTRACT NO. 87849	



LEGEND

- PAVEMENT REMOVAL
(ASSUMED 9" HMA OVER 12" AGG BASE)
- HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
(3/4" IS AVERAGE DEPTH)

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Drawing Name: H:\AD08\1111598-00 GRUNDY CO HWY GARDNER RD BRIDGES\CAD\PLANS\008-REMOVAL 5551.dwg Last Modified: Friday, April 5, 2024 12:18:16 PM Plotted On: Thursday, April 11, 2024 3:42:40 PM

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	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: DAH				
DATE: 02/2024				



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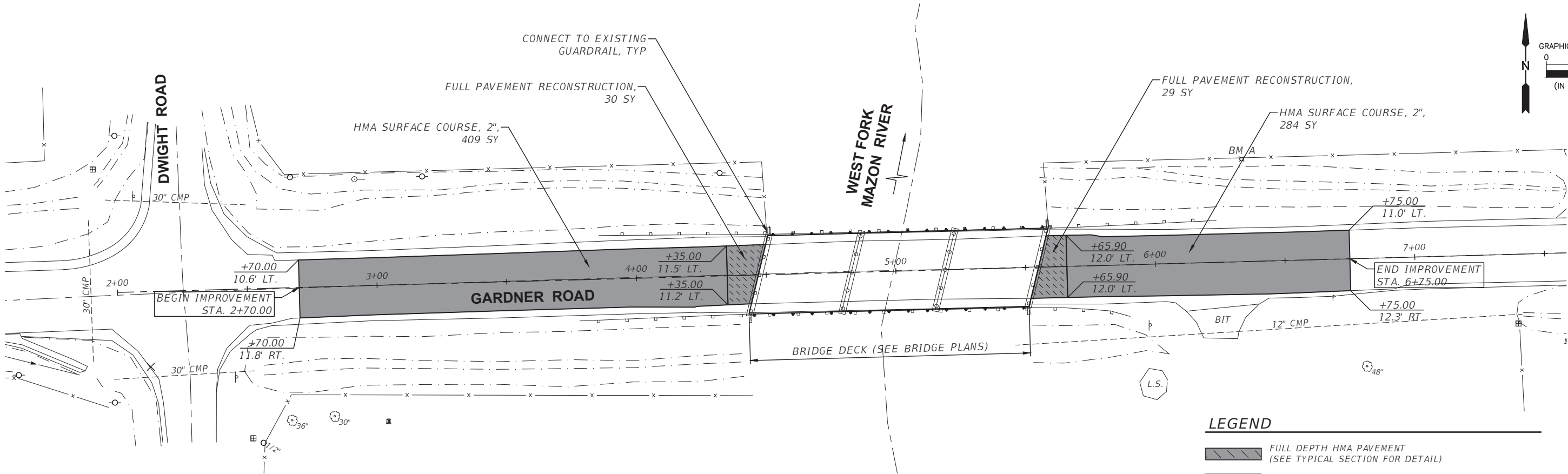
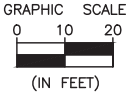
FAS 292 GARDNER ROAD
SECTION 19-00176-00-BR
GRUNDY COUNTY

REMOVAL PLAN
S.N. 032-5551 (E)(P)

BID SET

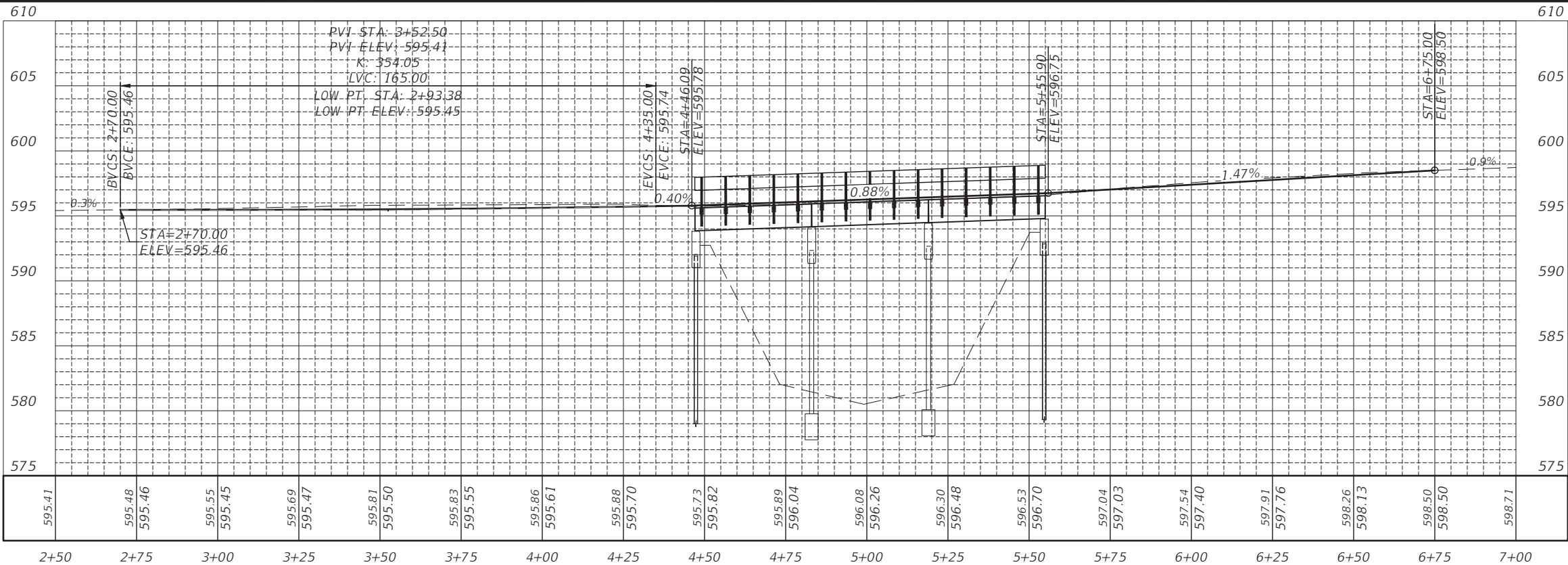
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FILE NO.: 111598.00 Y-	OF 38

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	19-00176-00-BR	GRUNDY	38	9
		ILLINOIS	CONTRACT NO. 87849	



LEGEND

- FULL DEPTH HMA PAVEMENT (SEE TYPICAL SECTION FOR DETAIL)
- HMA SURFACE COURSE, 2"



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Drawing Name: H:\A008\1111598-00 GRUNDY CO HWY GARDNER RD BRIDGES\CAD\PLANS\009-PNP 5551.dwg
Last Modified: Wednesday, April 3, 2024 3:58:37 PM
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DRAWN BY: KED	LEVEL	BY	DATE	REVISIONS	DESCRIPTION
CHECKED BY: DAH					
DATE: 02/2024					



PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

FAS 292 GARDNER ROAD
SECTION 19-00176-00-BR
GRUNDY COUNTY

PLAN AND PROFILE
S.N. 032-5551 (E)(P)

BID SET

CURRENT AS OF: 04/05/2024	
SCALE: AS NOTED	SHEET 9
FILE NO.: 111598.00 Y-	OF 38

Three Span (27'-11", 29'-11", 27'-11") Precast Concrete Bridge Slab, 29'-4" Clear Roadway, Steel Railing Type S1, Concrete Pile Bent Abutments and Piers, 87'-10" Back To Back of Abutments, 20° Skew Left Forward

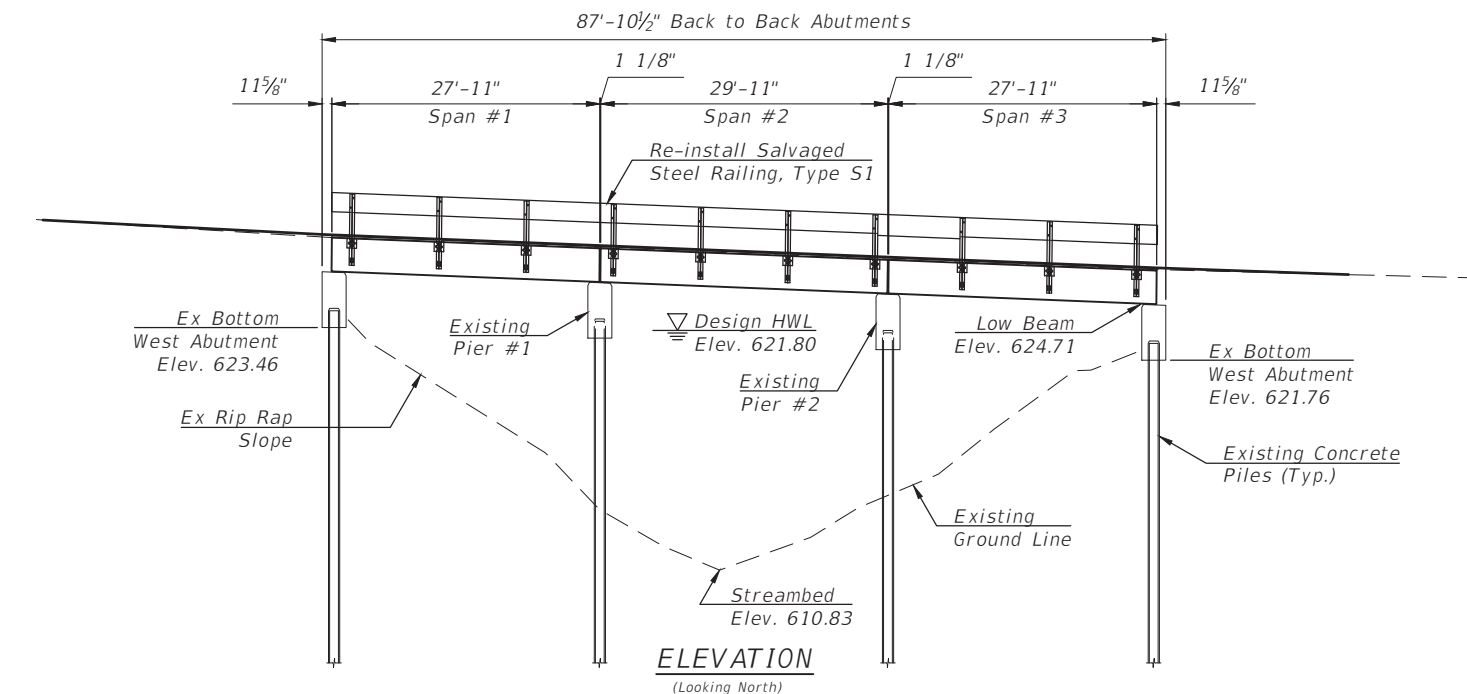
Salvage Existing Substructure and Rail

1. General Plan and Elevation
2. Superstructure
3. Deck Beams (Spans 1 & 3)
4. Deck Beams (Span 2)
5. Railings
- 6.-15. Existing Plans

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	19-00176-00-BR	GRUNDY	38	10
		ILLINOIS	CONTRACT NO. 87849	

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.

Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.



See Std. 515001

Clean existing name plate and
install next to new name plate.
Cost included with Name Plates.

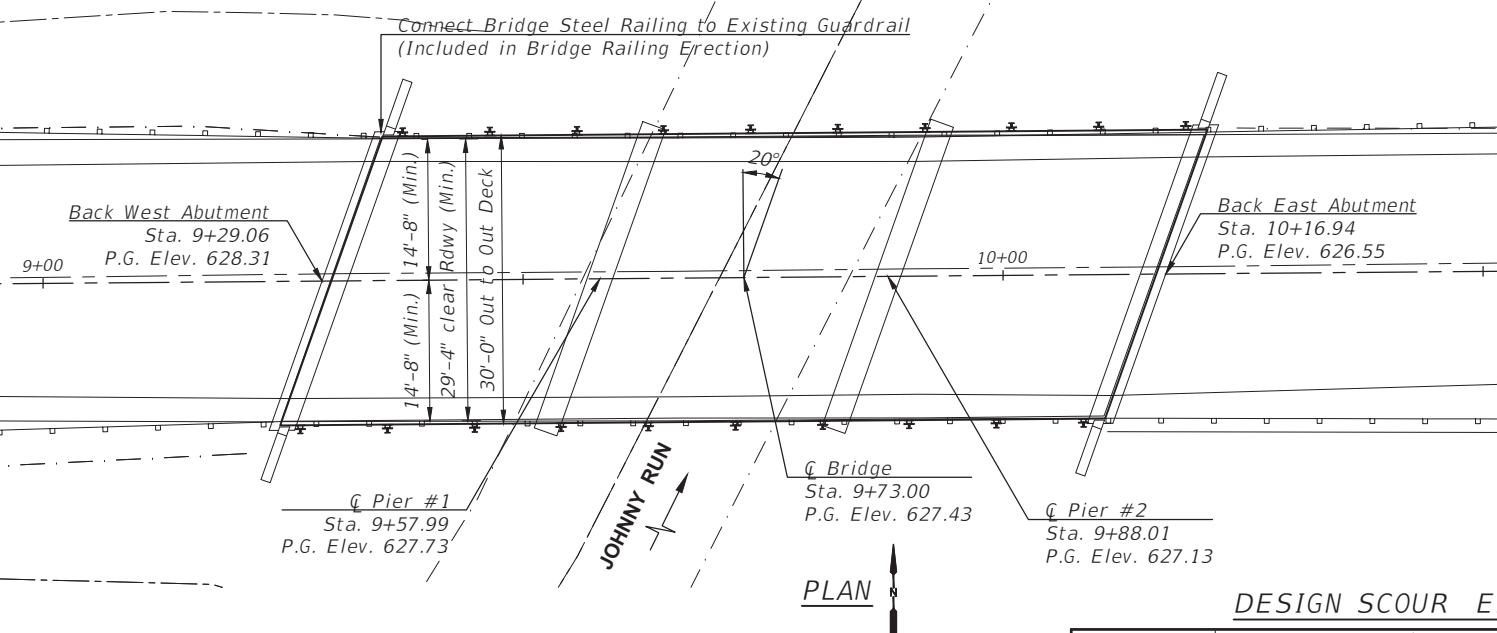
PRECAST UNITS

$$\begin{aligned} f'_c &= 4,500 \text{ psi} \\ f_y &= 60,000 \text{ psi} \quad (\text{Bar Reinforcement}) \\ f_y &= 65,000 \text{ psi} \quad (\text{Welded Wire Reinforcement}) \end{aligned}$$

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 Sec (S_{D1}) = 0.117
Design Spectral Acceleration at 0.2 Sec (S_{D5}) = 0.148
Soil Site Class = D (Assumed)

2020 AASHTO LRFD Bridge Design Specifications
Customary U.S. Units, 9th Edition

No future wearing surface allowed.



Event/Limit State	Design Scour Elevations (ft.)				Item 113
	W. Abut.	Pier 1	Pier 2	E. Abut.	
Q100	Not Computed	607.43	607.43	Not Computed	8
Q200	Not Computed	607.33	607.33	Not Computed	
Design	623.46	607.43	607.43	621.76	
Check	623.46	607.33	607.33	621.76	

Design and check elevations for abutments taken as bottom of existing cap. Design and check elevations for pile bent piers is lower of calculated scour and bottom of encasement. Existing encasement elevation unknown. Abutment scour elevations not computed since abutments will be protected with rip-rap.

Drainage Area = 29.8 sq. mi.									
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater Elevation	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	1310	369	369	621.3	0.04	0.04	621.3	621.3
Design	20	1561	404	404	621.8	0.04	0.04	621.9	621.9
Base	100	2180	490	490	623.0	0.06	0.06	623.0	623.0
Max. Calc.	200	2430	514	514	623.3	0.07	0.07	623.4	623.4

Prop. 10 Year Velocity: 3.56 (ft./sec.)

DRAWN BY: KED	REVISIONS			
CHECKED BY: JLS	LEVEL	BY	DATE	DESCRIPTION
DATE: 02/2024				



PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

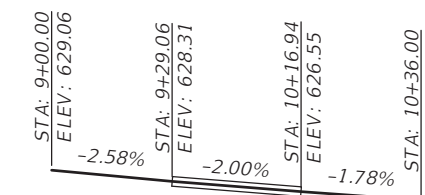
FAS 292 GARDNER ROAD
SECTION 19-00176-00-BR
GRUNDY COUNTY

GENERAL PLAN AND ELEVATION
S.N. 032-5416 (E)(P)

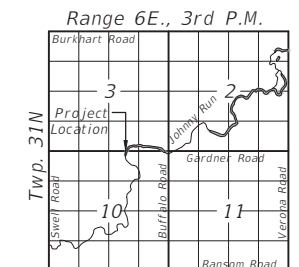
SHEET 1 of 15 SHEETS

BID SET

CURRENT AS OF: 04/05/2024			
SCALE: AS NOTED		SHEET	10
FILE NO.: 111598.00 Y-		OF	38



(Along C Roadway)



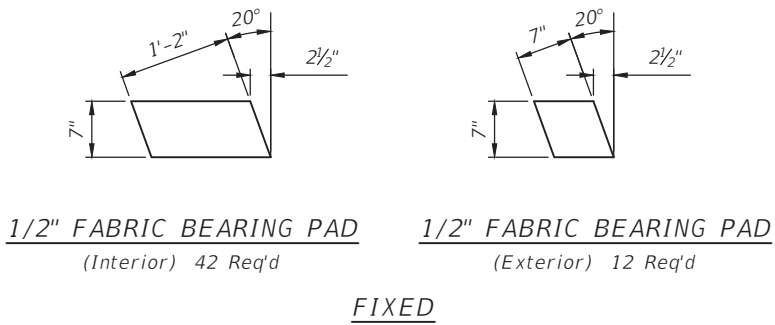
LOCATION SKETCH

S.N. 032-5416 (EX & PROP)

I certify that to the best of knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO LRFD Bridge Design Specifications.

CHAMLIN & ASSOCIATES, INC. © 2024
Drawing Name: H:\AJOB\1111598-00 GRUNDY CO HWY GARDNER RD BRIDGES\CAD\PLANS\010-GPE 5416.dwg
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	19-00176-00-BR	GRUNDY	38	11
		ILLINOIS	CONTRACT NO. 87849	

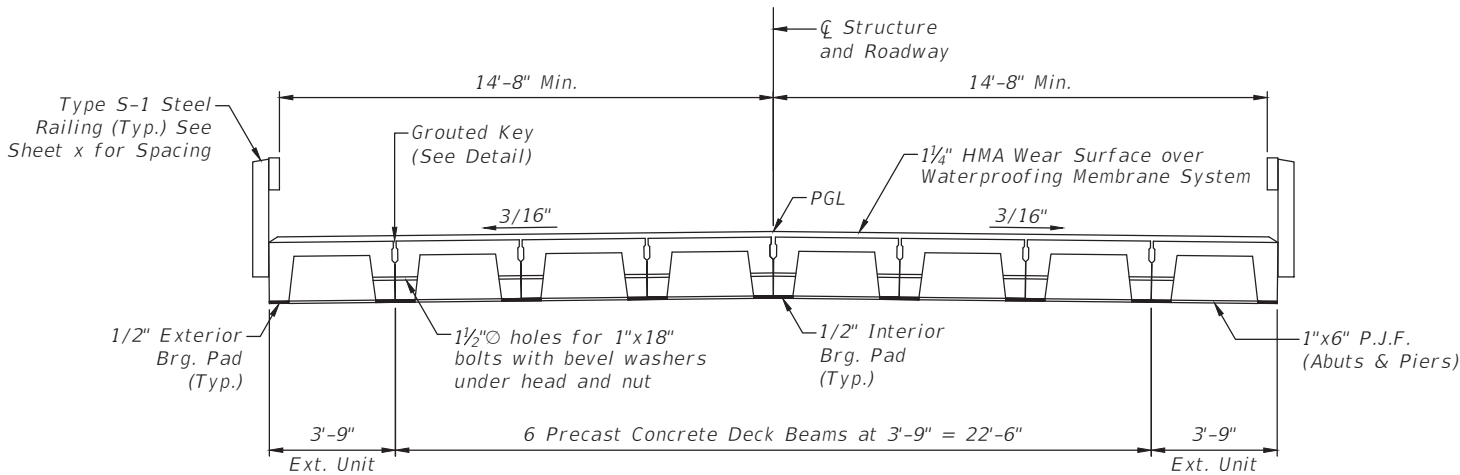


PRECAST NOTES:

This work shall be done and paid for in accordance with section 504 of the Standard Specifications effective January 1, 2022, including current supplemental specifications. In case of conflict these notes shall take precedence. QC/QA shall be performed in accordance with IDOT Bureau of Materials policy memorandum 19-08.

All transverse tie assemblies (nuts, bolts, and washers) shall be hot dipped galvanized in accordance with AASHTO M 232.

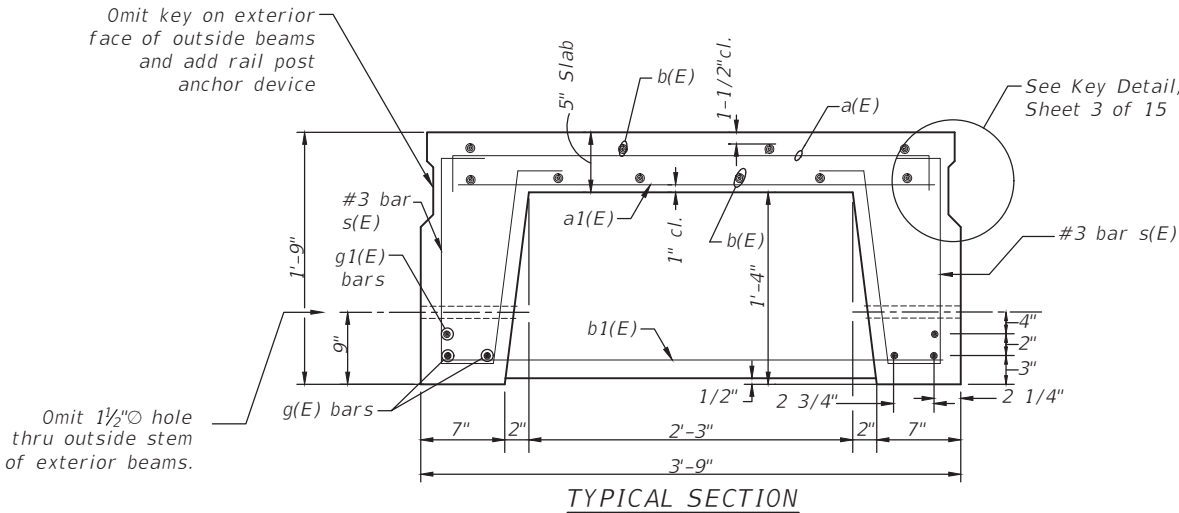
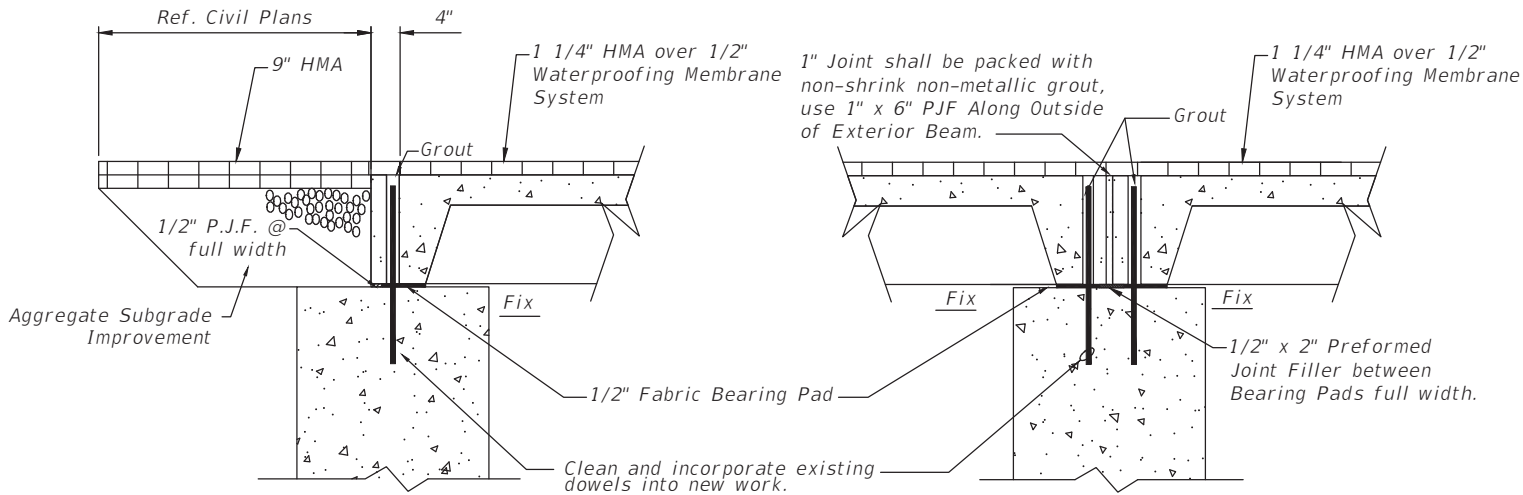
Cost of reinforcement and accessories cast into slab unit, of bearing pads, furnishing, drilling for, placing and grouting anchor dowels, of furnishing and assembling of 1"Ø bolts, and of grouting longitudinal shear key is included in unit bid price for "Precast Concrete Bridge Slab."



NOTES

The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.

Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.



NOTE:

Tack welding of stirrups to the bottom longitudinal rebars will not be permitted except as otherwise authorized in writing by the Engineer.

BILL OF MATERIAL

Item	Unit	Quantity
Hot-Mix Asphalt Surface Course	Ton	20

CHAMLIN & ASSOCIATES, INC. © 2024
Drawing Name: H:\A\08\11111598-00 GRUNDY CO HWY GARDNER RD BRIDGES\CAD\PLANS\011-SUPERSTRUCTURE 1&3 5416.dwg
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Plotted On: Friday, April 5, 2024 12:35:12 PM

DRAWN BY: KED	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: JLS				
DATE: 02/2024				



PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

FAS 292 GARDNER ROAD
SECTION 19-00176-00-BR
GRUNDY COUNTY

SUPERSTRUCTURE
S.N. 032-5416 (E)(P)

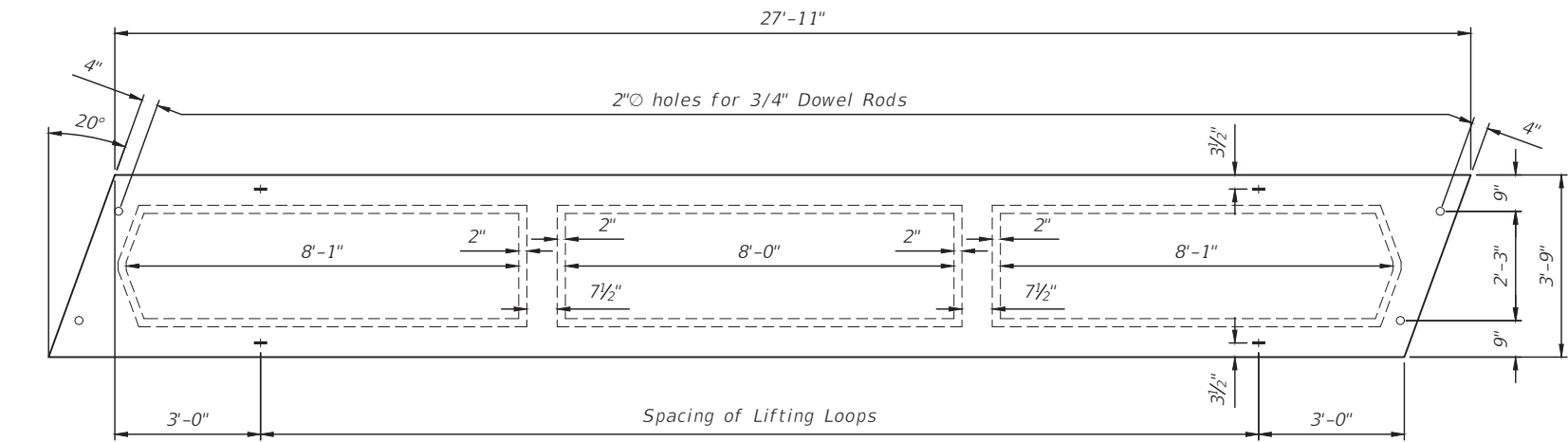
SHEET 2 of 15 SHEETS

BID SET

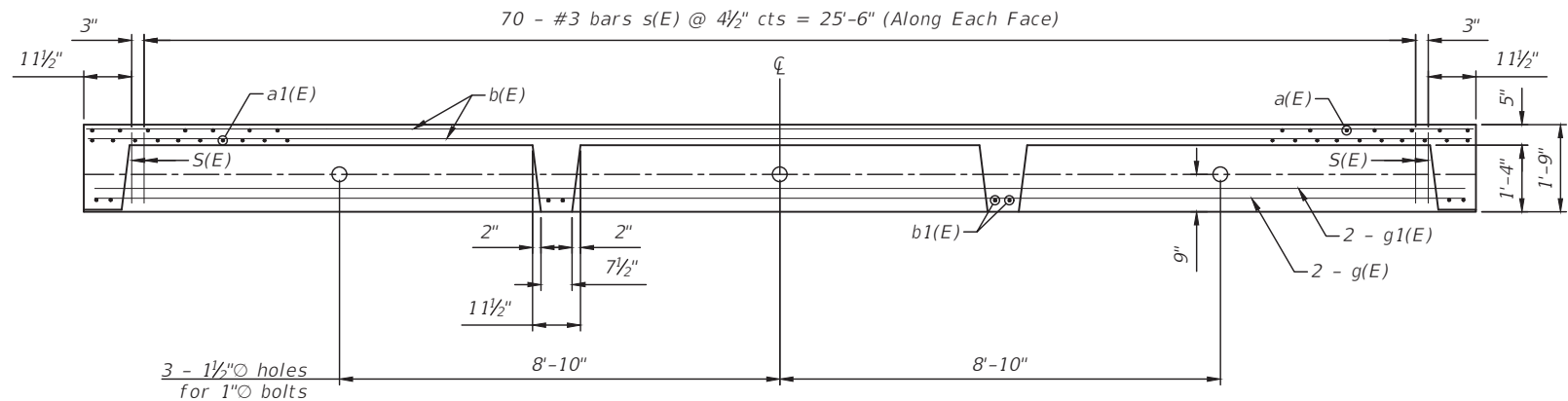
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SCALE: AS NOTED	SHEET 11
FILE NO.: 111598.00 Y-	OF 38

CHAMLIN & ASSOCIATES, INC. © 2024
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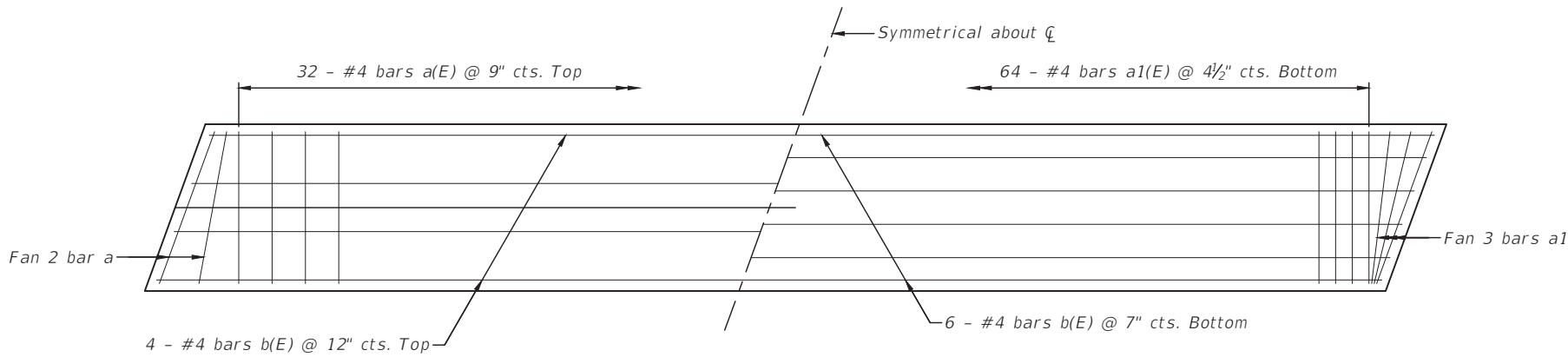
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	19-00176-00-BR	GRUNDY	38	12
		ILLINOIS	CONTRACT NO. 87849	



TYPICAL PLAN OF BEAM



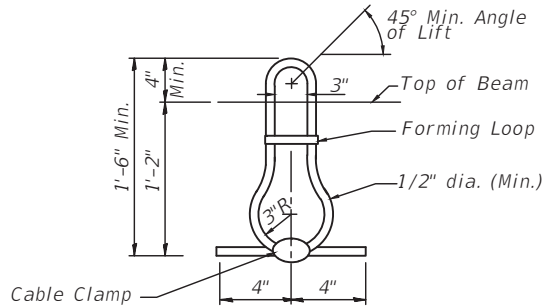
SECTION ALONG ϕ OF BEAM



TOP

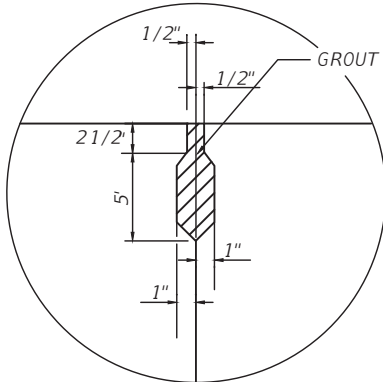
BOTTOM

PLAN SHOWING SLAB REINFORCEMENT



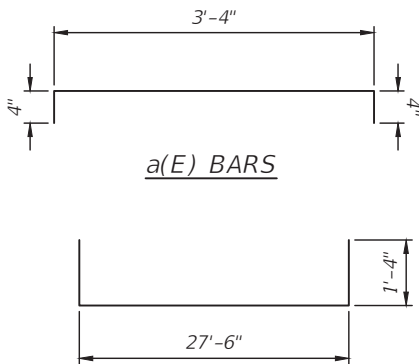
LIFTING LOOP DETAIL
64 REQ'D

NOTE:
Lifting Loops shall be 6x25 class wire rope with fiber core. Min. ultimate tensile strength shall be 21,000 lbs. Loops shall be burned off after beams have been erected.

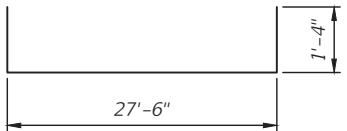


KEY DETAIL

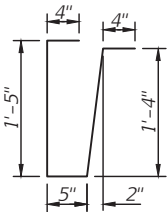
Longitudinal shear key shall be packed with a non-shrink grout.



a(E) BARS



BARS g(E)



s(E) BARS

*BILL OF MATERIAL
FOR (1) 27'-11" LONG PRECAST BEAM

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	36	#4	4'-0"	┐
a1(E)	70	#4	3'-3"	—
b(E)	10	#4	27'-6"	—
b1(E)	8	#4	3'-6"	—
g(E)	4	#11	30'-2"	┐
g1(E)	2	#11	27'-6"	—
s(E)	148	#3	3'-10"	┐
Class PC Concrete			Cu. Yd.	3.9
Reinforcement Bars			Pound	1890

* For Precast Mfr. Info. Only (16 Beams Required)

- NOTES:
1. See Sheet 2 of 15 for additional information.
2. Reinforcement bars designated (E) shall be epoxy coated.

BILL OF MATERIAL

Item	Unit	Quantity
Precast Concrete Bridge Slab	Sq Ft	1675

DRAWN BY: KED	LEVEL	BY	DATE	REVISIONS	DESCRIPTION
CHECKED BY: JLS					
DATE: 02/2024					



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OTTAWA MENDOTA
ILLINOIS

FAS 292 GARDNER ROAD
SECTION 19-00176-00-BR
GRUNDY COUNTY

PRECAST BEAM DETAILS
SPANS 1 & 3
S.N. 032-5416 (E)(P)

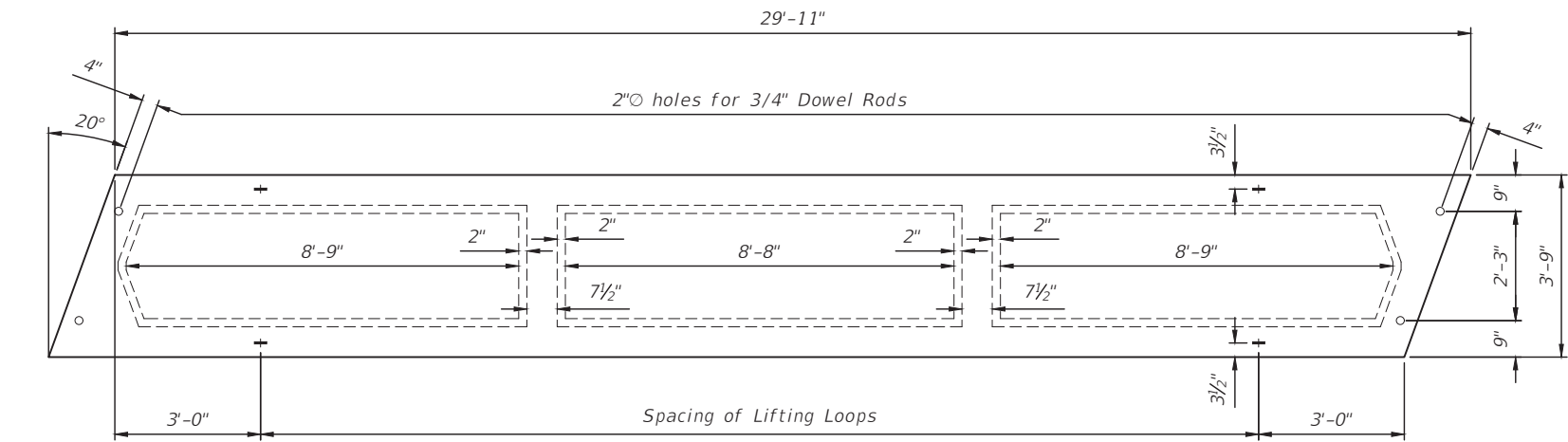
SHEET 3 of 15 SHEETS

BID SET

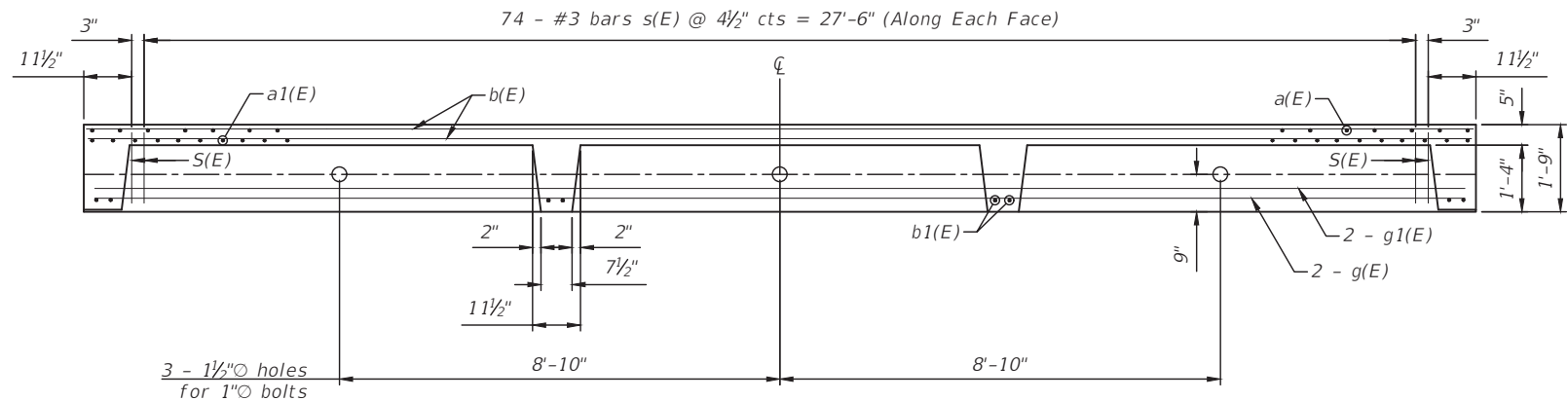
CURRENT AS OF: 04/05/2024	
SCALE: AS NOTED	SHEET 12
FILE NO.: 111598.00 Y-	OF 38

CHAMLIN & ASSOCIATES, INC. © 2024
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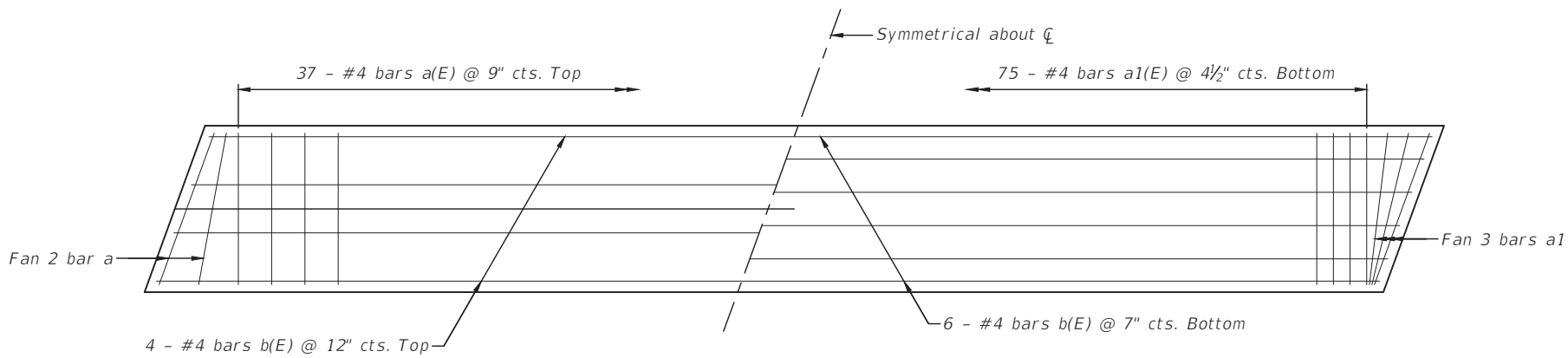
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	19-00176-00-BR	GRUNDY	38	13
		ILLINOIS	CONTRACT NO. 87849	



TYPICAL PLAN OF BEAM



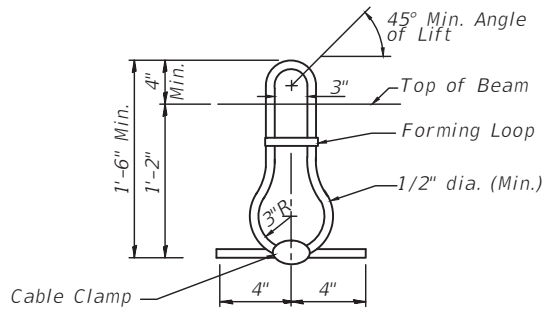
SECTION ALONG ϕ OF BEAM



TOP

BOTTOM

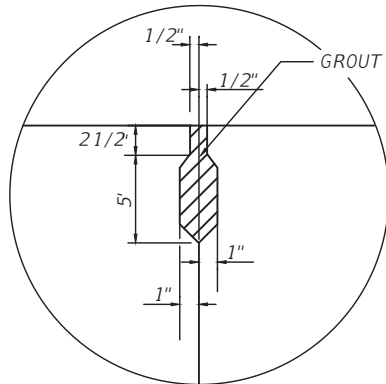
PLAN SHOWING SLAB REINFORCEMENT



LIFTING LOOP DETAIL

32 REQ'D

NOTE:
Lifting Loops shall be 6x25 class wire rope with fiber core. Min. ultimate tensile strength shall be 21,000 lbs. Loops shall be burned off after beams have been erected.



KEY DETAIL

Longitudinal shear key shall be packed with a non-shrink grout.

*BILL OF MATERIAL
FOR (1) 29'-11" LONG PRECAST BEAM

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	41	#4	4'-0"	┌───┐
a1(E)	81	#4	3'-3"	───
b(E)	10	#4	29'-6"	───
b1(E)	8	#4	3'-6"	───
g(E)	4	#11	32'-2"	┌───┐
g1(E)	2	#11	29'-6"	───
s(E)	152	#3	3'-10"	┌┐
Class PC Concrete			Cu. Yd.	4.1
Reinforcement Bars			Pound	2035

* For Precast Mfr. Info. Only (8 Beams Required)

- NOTES:
1. See Sheet 2 of 15 for additional information.
2. Reinforcement bars designated (E) shall be epoxy coated.

BILL OF MATERIAL

Item	Unit	Quantity
Precast Concrete Bridge Slab	Sq Ft	898

DRAWN BY: KED	LEVEL	BY	DATE	REVISIONS	DESCRIPTION
CHECKED BY: JLS					
DATE: 02/2024					



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OTTAWA MENDOTA
ILLINOIS

FAS 292 GARDNER ROAD
SECTION 19-00176-00-BR
GRUNDY COUNTY

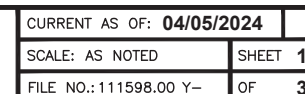
PRECAST DECK BEAM DETAILS
SPAN 2
S.N. 032-5416 (E)(P)

SHEET 4 of 15 SHEETS

BID SET

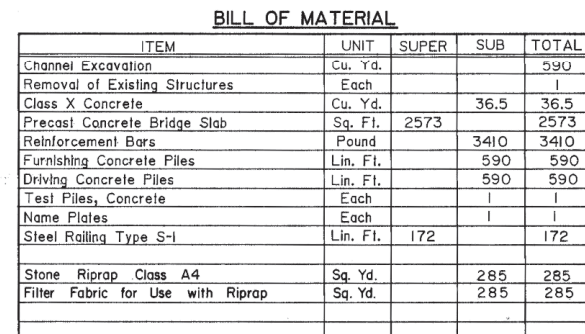
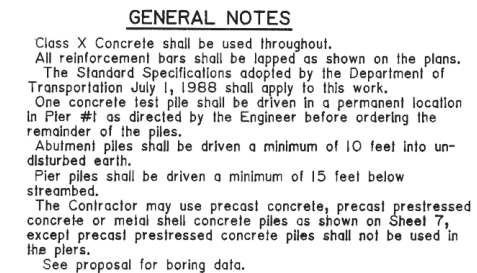
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SCALE: AS NOTED	SHEET 13
FILE NO.: 111598.00 Y-	OF 38

CHAMLIN & ASSOCIATES, INC. © 2024
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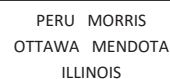
CURRENT AS OF: 04/05/2024			
SCALE: AS NOTED		SHEET	16
FILE NO.:111598.00 Y-		OF	38



I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the Design Loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current "AASHTO Standard Specifications for Highway Bridges."

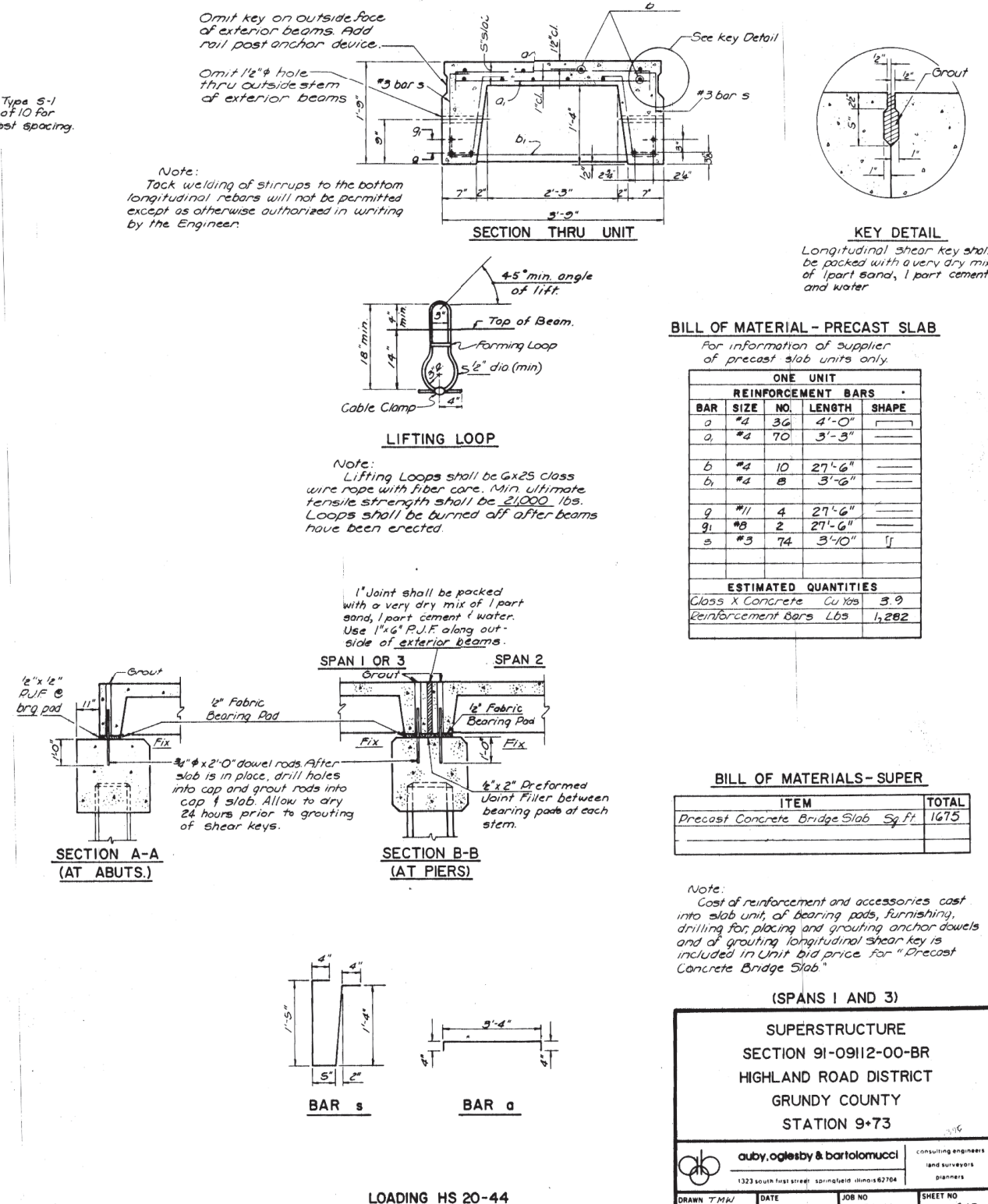
	auby, oglesby & bartolomucci		consulting engineers land surveyors planners
	1323 south first street / springfield, illinois 62704		
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DRAWN BY: KED	REVISIONS			
CHECKED BY: JLS	LEVEL	BY	DATE	DESCRIPTION
DATE: 02/2024				



SHEET 8 of 15 SHEETS

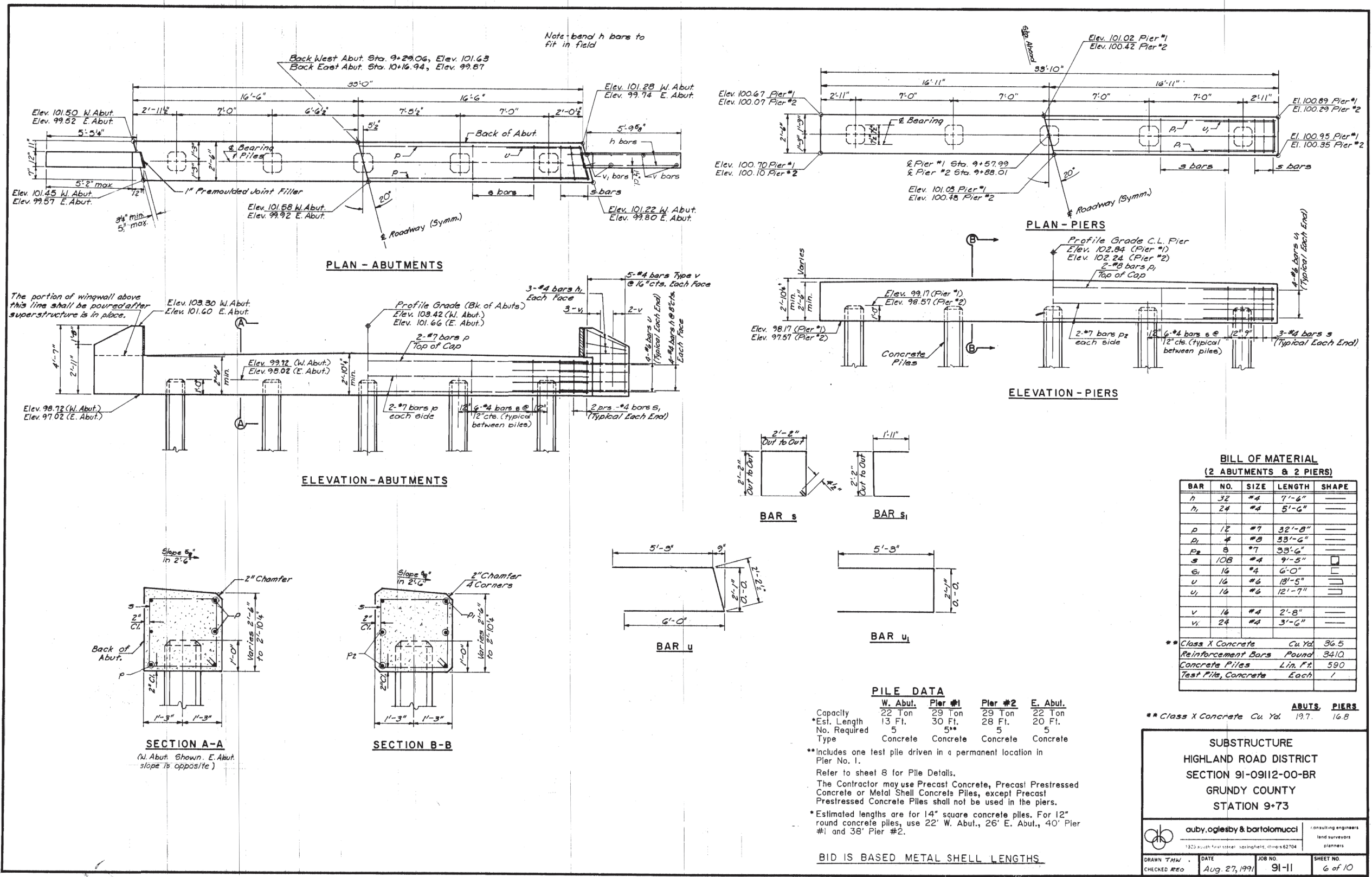
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DATE: 02/2024				

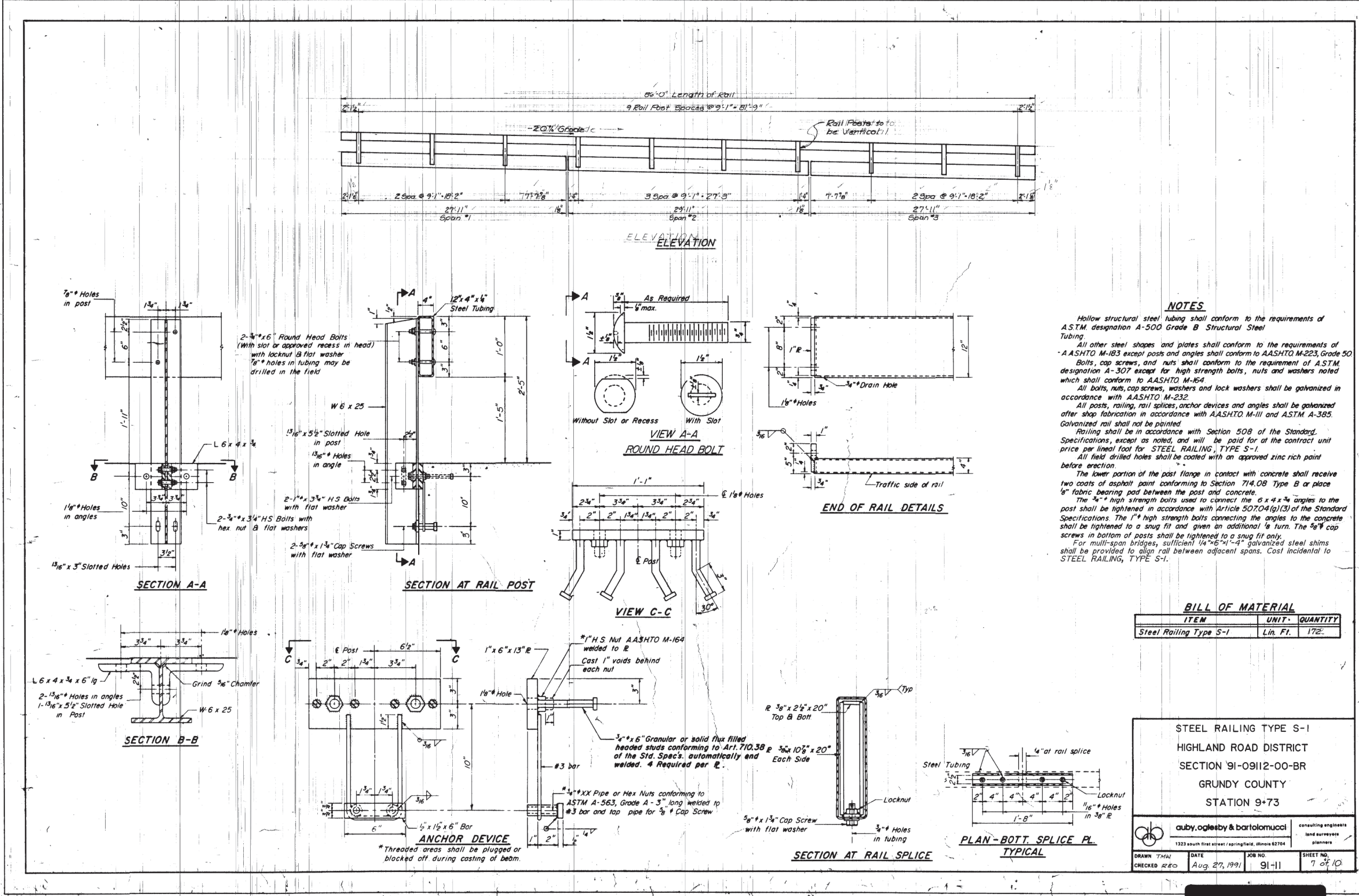


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FILE NO.: 111598.00 Y-		OF	38



FOR INFORMATION ONLY

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Last Modified: Wednesday, April 3, 2024 5:04:38 PM
Plotted On: Thursday, April 4, 2024 10:05:34 AM



NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A-500 Grade B Structural Steel Tubing.

All other steel shapes and plates shall conform to the requirements of AASHTO M-163 except posts and angles shall conform to AASHTO M-223, Grade 50. Bolts, cap screws, and nuts shall conform to the requirement of ASTM designation A-307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M-164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with AASHTO M-232.

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with AASHTO M-111 and ASTM A-385. Galvanized rail shall not be painted.

Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per linear foot for STEEL RAILING, TYPE S-1.

All field drilled holes shall be coated with an approved zinc rich paint before erection.

The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.08 Type B or place 1/2" fabric bearing pad between the post and concrete.

The 3/4" high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened in accordance with Article 507.04(g)(3) of the Standard Specifications. The 1" high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/2 turn. The 5/8" cap screws in bottom of posts shall be tightened to a snug fit only.

For multi-span bridges, sufficient 1/4" x 6" x 1/4" galvanized steel shims shall be provided to align rail between adjacent spans. Cost incidental to STEEL RAILING, TYPE S-1.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Steel Railing Type S-1	Lin. Ft.	172

STEEL RAILING TYPE S-1
HIGHLAND ROAD DISTRICT
SECTION 9I-09I12-00-BR
GRUNDY COUNTY
STATION 9+73

auby, oglesby & bartolomucci		consulting engineers land surveyors planners
1323 south first street / springfield, illinois 62704		
DRAWN TMM	DATE	JOB NO.
CHECKED REO	Aug. 27, 1991	9I-11
		SHEET NO.
		7 of 10

FOR INFORMATION ONLY

REVISIONS	DESCRIPTION
LEVEL	BY
DATE	

DRAWN BY: KED	CHECKED BY: JLS	DATE: 02/2024
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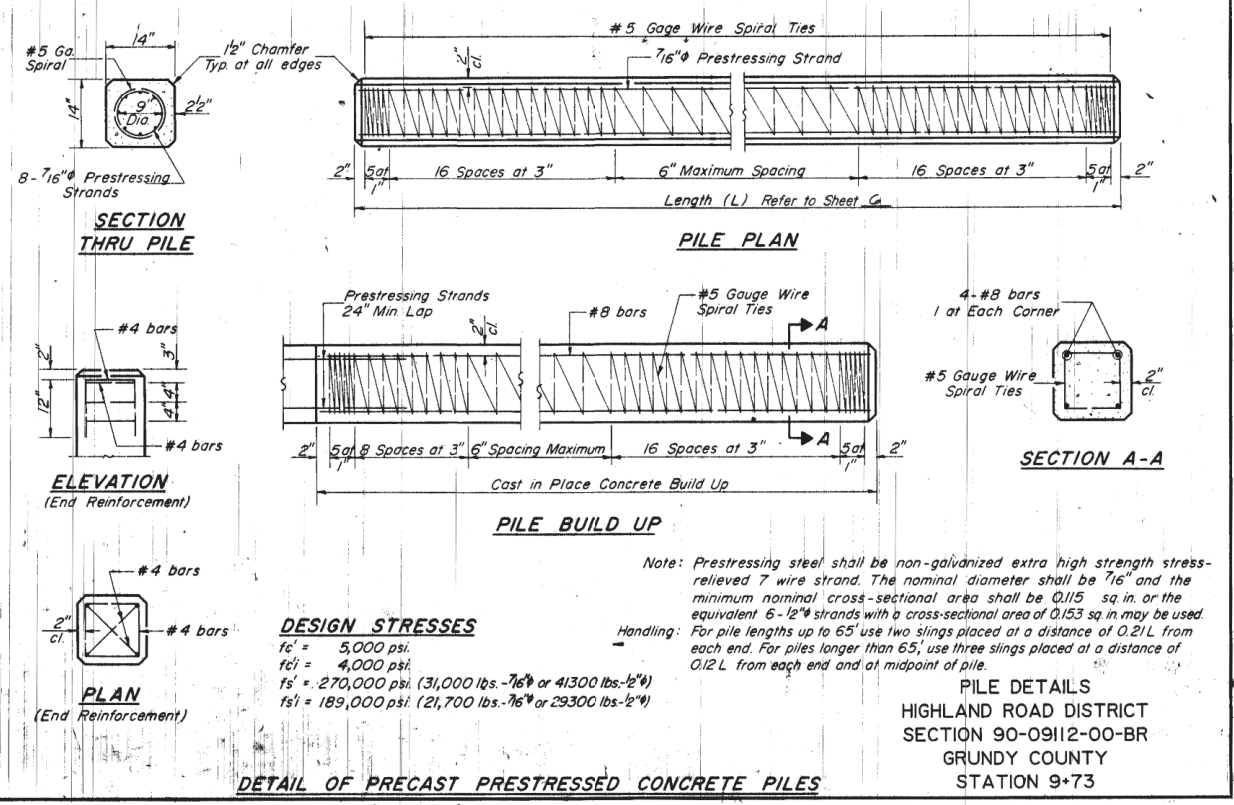
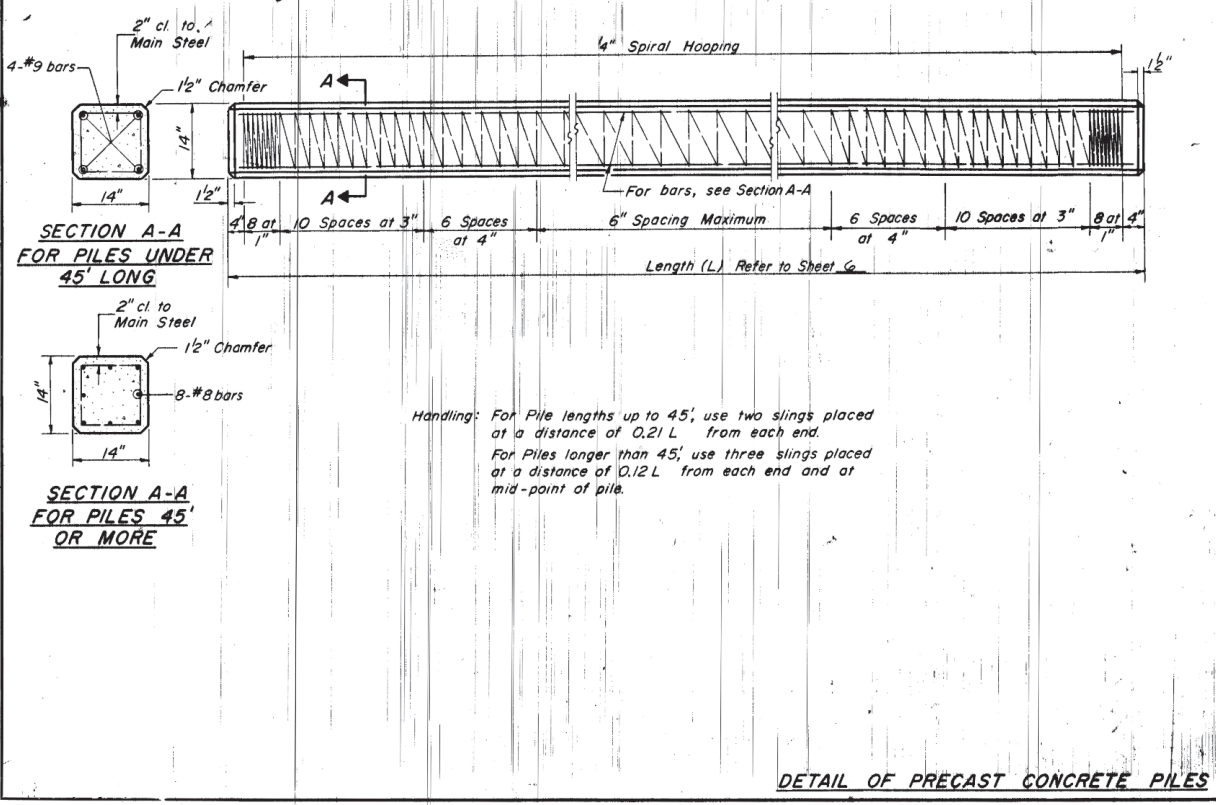
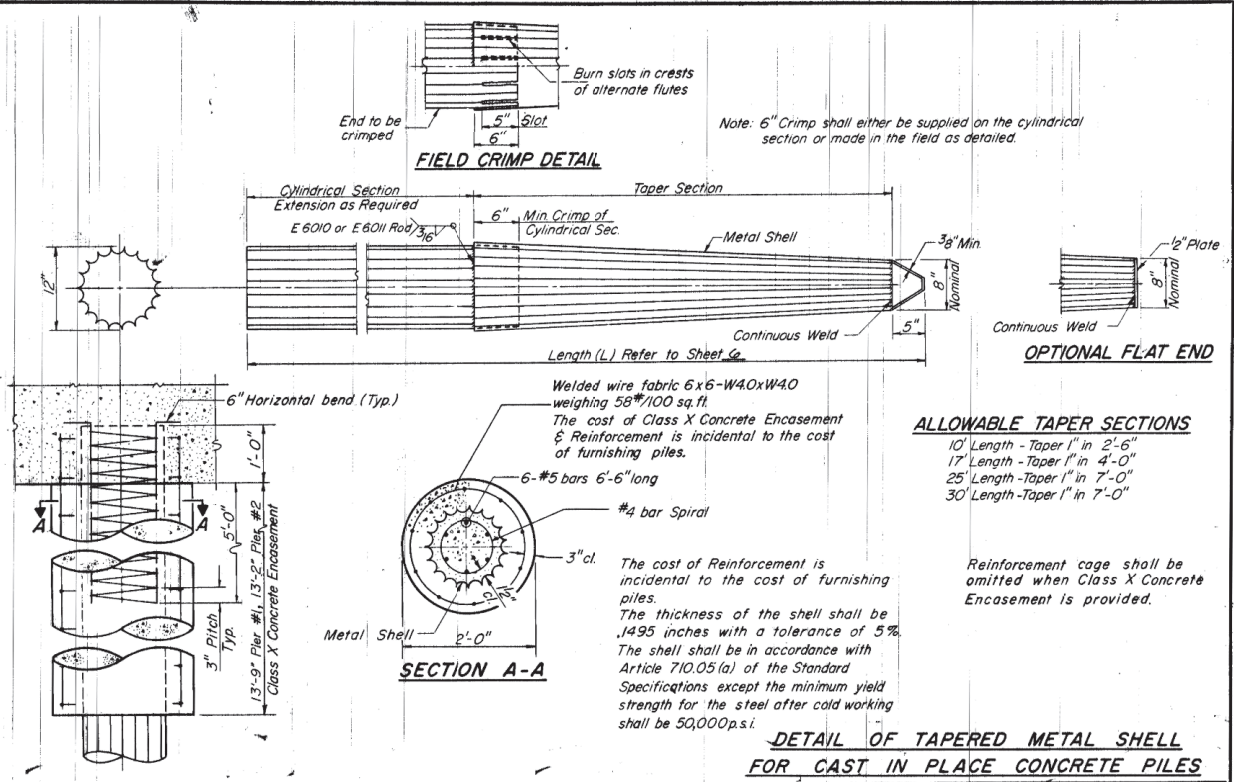
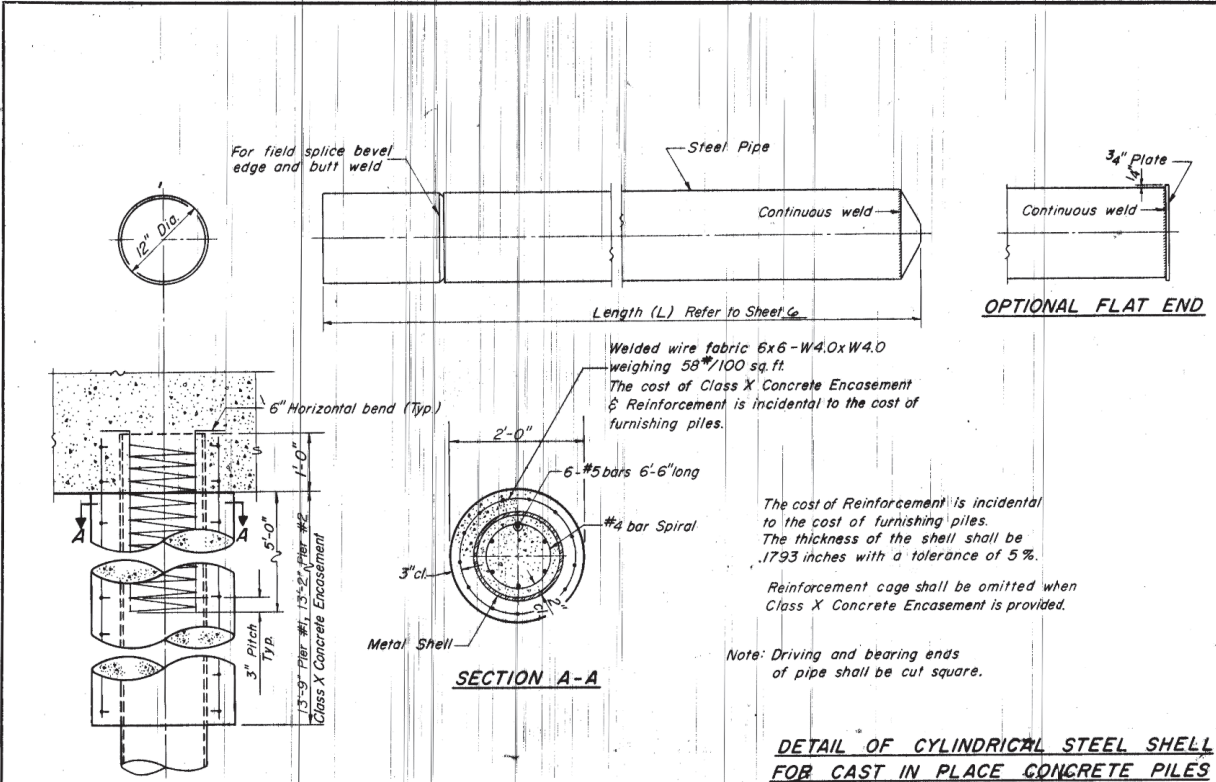
PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

FAS 292 GARDNER ROAD
SECTION 19-00176-00-BR
GRUNDY COUNTY

EXISTING PLANS
S.N. 032-5416 (E)(P)
SHEET 12 of 15 SHEETS

BID SET

CURRENT AS OF: 04/05/2024	
SCALE: AS NOTED	SHEET 21
FILE NO.: 111598.00 Y-	OF 38



Job No. 91-11 Sheet 8 of 10

FOR INFORMATION ONLY

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CHECKED BY: JLS					
DATE: 02/2024					



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ILLINOIS

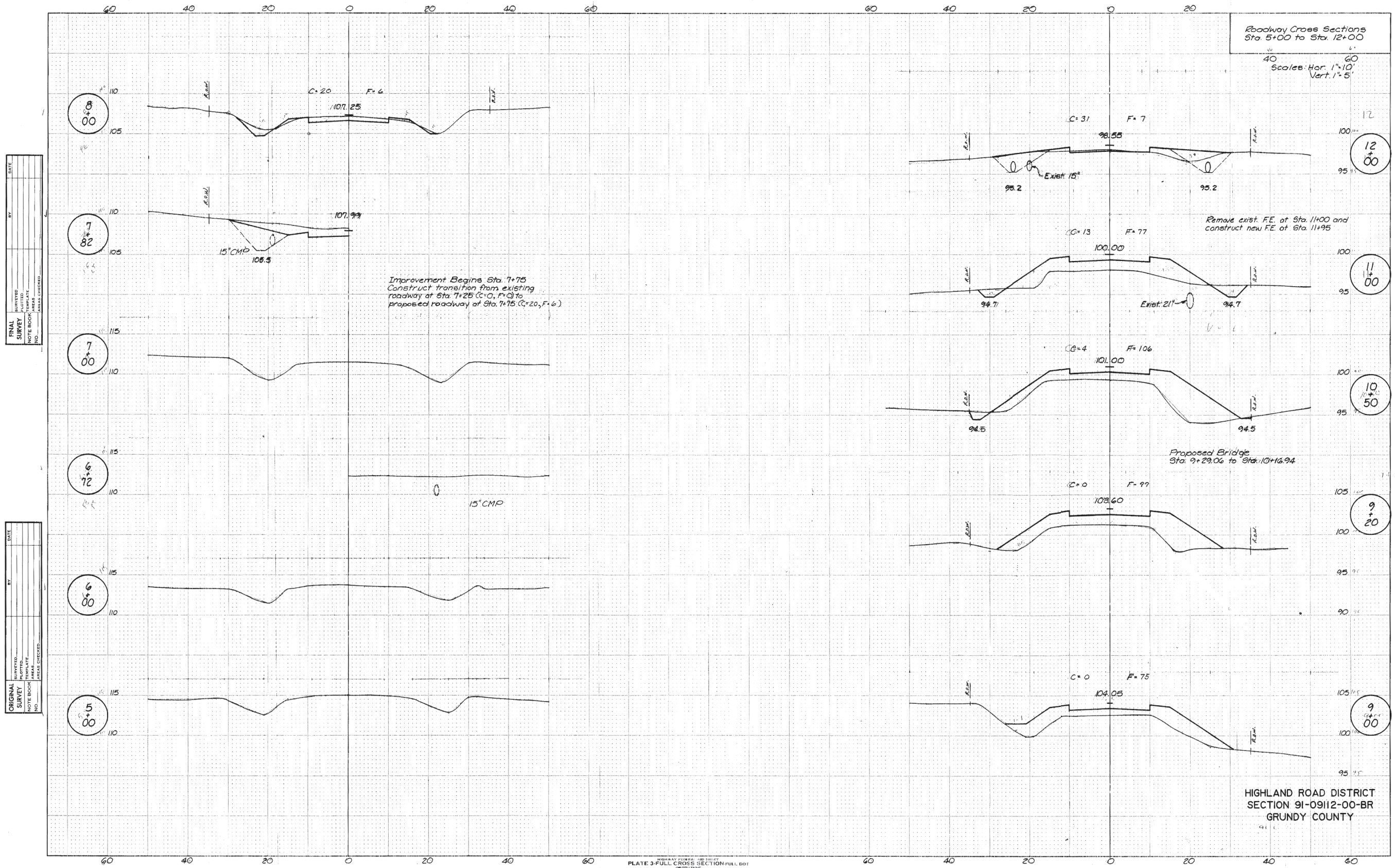
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SECTION 19-00176-00-BR
GRUNDY COUNTY

EXISTING PLANS
S.N. 032-5416 (E)(P)
SHEET 13 of 15 SHEETS

BID SET	CURRENT AS OF: 04/05/2024	
	SCALE: AS NOTED	SHEET 22
	FILE NO.: 111598.00 Y-	OF 38

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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	19-00176-00-BR	GRUNDY	38	23
		ILLINOIS	CONTRACT NO. 87849	



FOR INFORMATION ONLY

DATE	BY	REVISIONS
02/2024	JLS	



PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

FAS 292 GARDNER ROAD
SECTION 19-00176-00-BR
GRUNDY COUNTY

EXISTING PLANS
S.N. 032-5416 (E)(P)
SHEET 14 OF 15 SHEETS

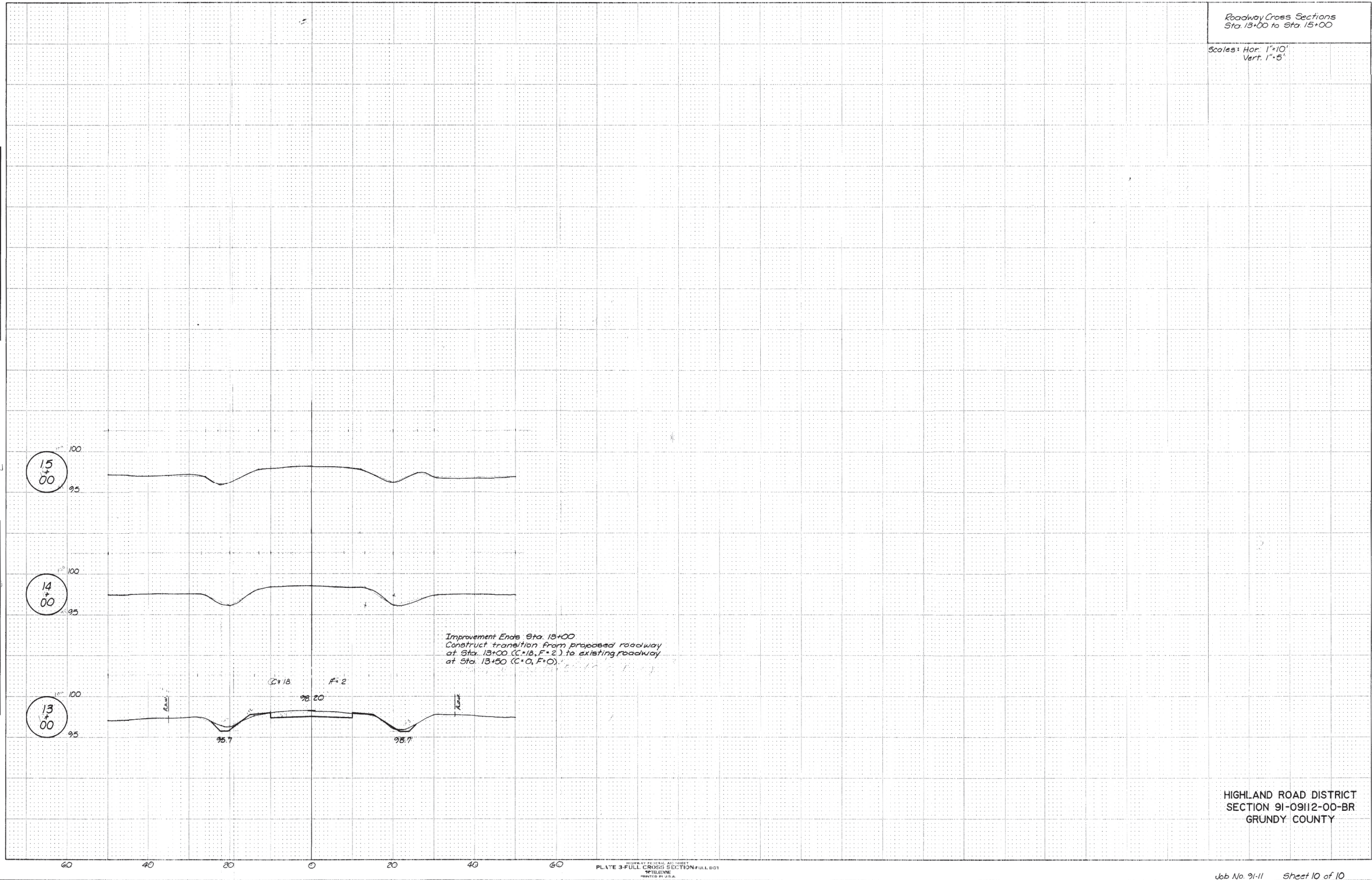
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	19-00176-00-BR	GRUNDY	38	24
		ILLINOIS	CONTRACT NO. 87849	

FINAL SURVEY	DATE	BY
NO. _____	_____	_____
NOTE BOOK NO. _____	_____	_____
AREA CHECKED _____	_____	_____

ORIGINAL SURVEY	DATE	BY
NO. _____	_____	_____
NOTE BOOK NO. _____	_____	_____
AREA CHECKED _____	_____	_____



REVISIONS	DESCRIPTION	DATE	BY	LEVEL



PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

FAS 292 GARDNER ROAD
SECTION 19-00176-00-BR
GRUNDY COUNTY

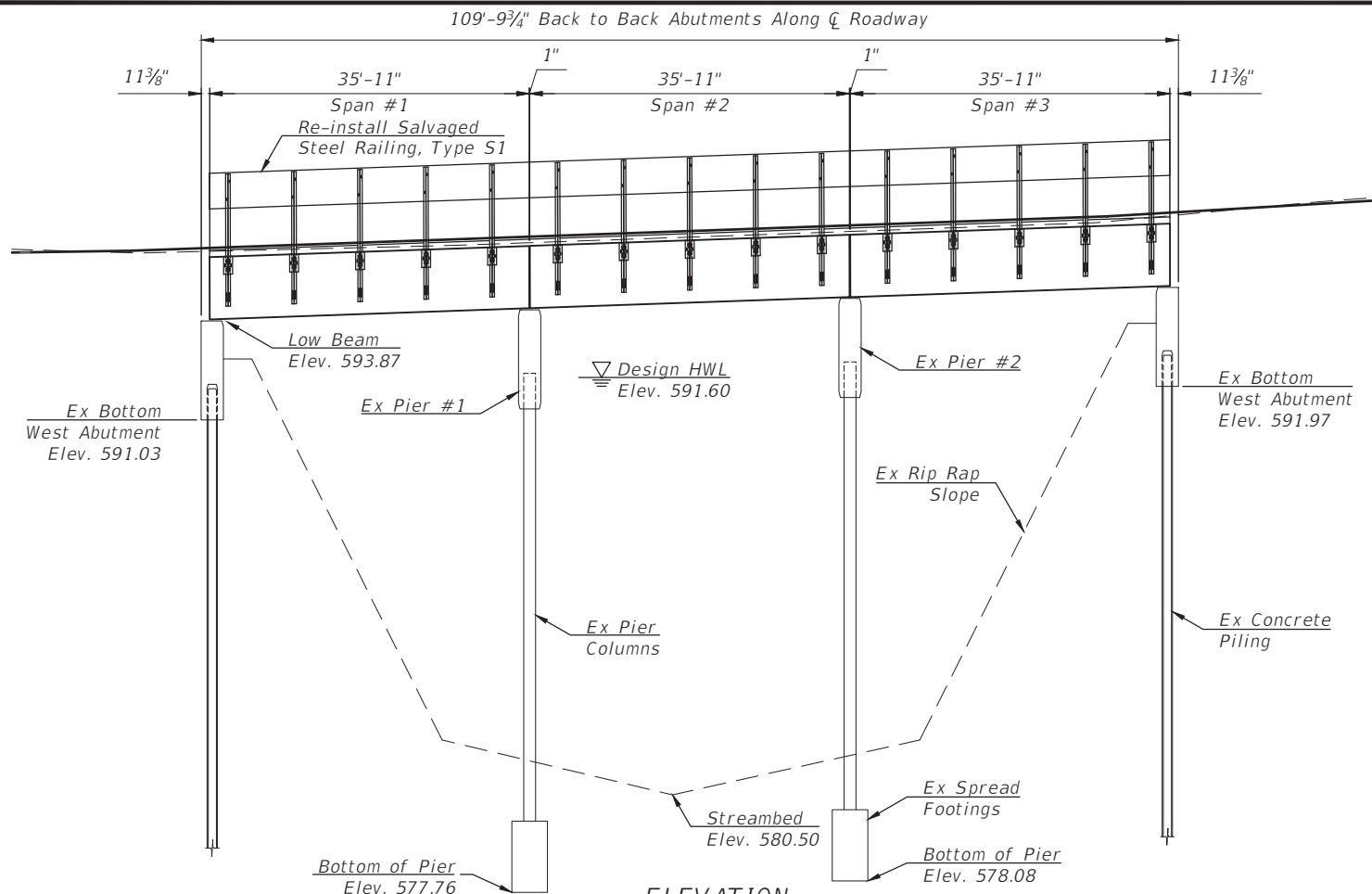
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S.N. 032-5416 (E)(P)
SHEET 15 of 15 SHEETS

FOR INFORMATION ONLY

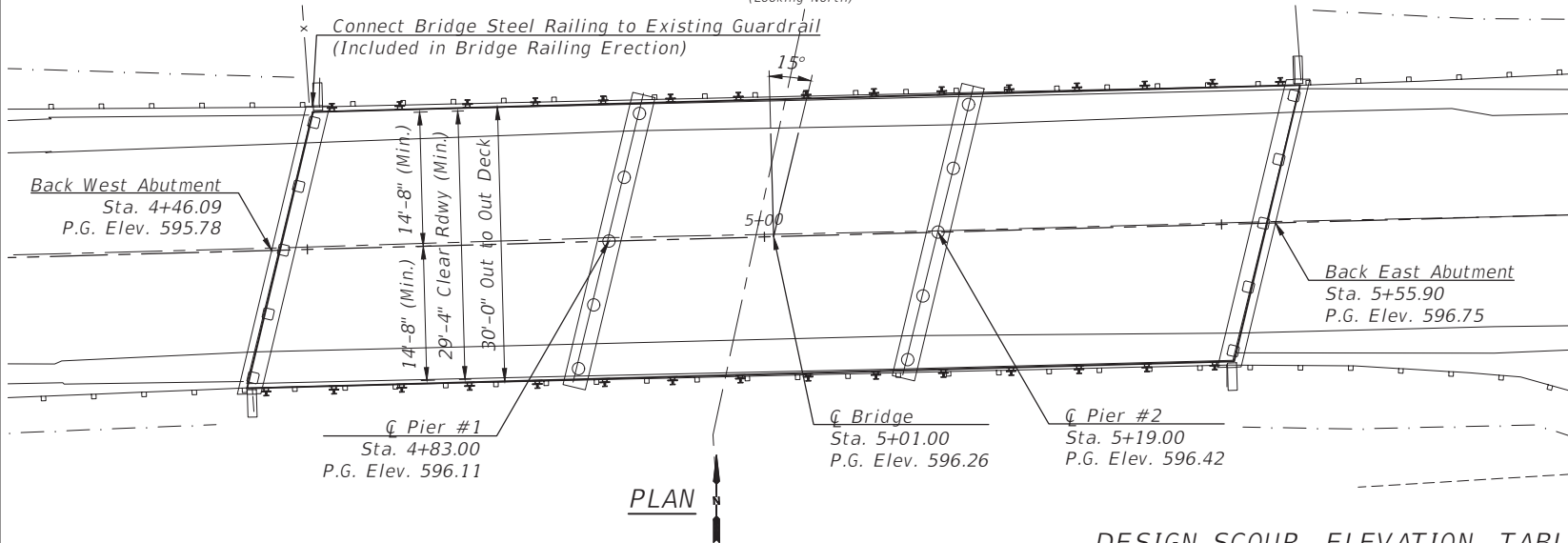
BID SET

CURRENT AS OF: 04/05/2024	
SCALE: AS NOTED	SHEET 24
FILE NO.: 111598.00 Y-	OF 38

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ELEVATION
(Looking North)



PLAN

WATERWAY INFORMATION

Drainage Area = 54.4 sq. mi.									
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
			Bridge	Bridge					
	10	1980	644	644	591.1	0.01	0.01	591.1	591.1
Design	20	2344	686	686	591.6	0.02	0.02	591.6	591.6
Base	100	3260	772	772	592.6	0.03	0.03	592.6	592.6
Max. Calc.	200	3630	808	808	593.0	0.03	0.03	593.0	593.0

Exist. 10 Year Velocity: 3.10 (ft./sec.)

Prop. 10 Year Velocity: 3.10 (ft./sec.)

DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elevations (ft.)					Item 113
	W. Abut.	Pier 1	Pier 2	E. Abut.		
Q100	Not Computed	577.22	577.22	Not Computed		5
Q200	Not Computed	577.11	577.11	Not Computed		
Design	591.03	577.76	578.08	591.97		
Check	591.03	577.76	578.08	591.97		

Design and check elevations for abutments taken as bottom of existing cap. Design and check elevations for pier spread footings taken as bottom of existing footing. Abutment scour elevations not computed since abutments will be protected with rip-rap. Item 113 rated as 5 per ABD 14.2 due to existing rip-rap installation around piers.

Existing Structure No: 032-5551

Three Span (35'-11", 35'-11", 35'-11") Precast Concrete Bridge Slab, 29'-4" Clear Roadway, Steel Railing Type S1, Concrete Pile Bent Abutments and Concrete Column Bent Piers on Spread Footings, 109'-9 $\frac{3}{4}$ " Back To Back of Abutments, 15° Skew Left Forward

Existing Superstructure To Be Removed

Salvage Existing Substructure and Rail

DESIGN STRESSES

PRECAST UNITS

f'_c = 4,500 psi
 f_y = 60,000 psi (Bar Reinforcement)
 f_y = 65,000 psi (Welded Wire Reinforcement)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 Sec (S_{D1}) = 0.117
Design Spectral Acceleration at 0.2 Sec (S_{D5}) = 0.148
Soil Site Class = D (Assumed)

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications
Customary U.S. Units, 9th Edition

LOADING HL-93

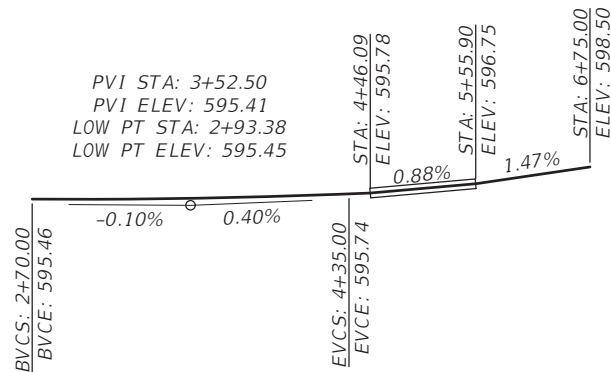
No future wearing surface allowed.

STA. 5+01
RE-BUILT 2024 BY
GRUNDY COUNTY
FAS 292 - SEC. 19-00176-00-BR
LOADING HL-93
STR. NO. 032-5551

NAME PLATE

See Std. 515001

Clean existing name plate and install next to new name plate.
Cost included with Name Plates.



PROFILE GRADE

(Along $\bar{C}$ Roadway)



I certify that to the best of knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO LRFD Bridge Design Specifications.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	19-00176-00-BR	GRUNDY	38	25
		ILLINOIS	CONTRACT NO. 87849	

GENERAL NOTES

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.

All bars to be epoxy coated.

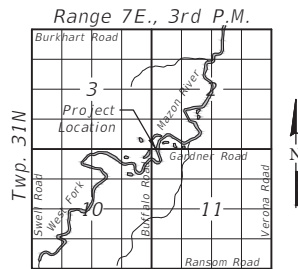
Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Superstructures	Each	1
Precast Concrete Bridge Slab	Sq Ft	3233
Name Plates	Each	1
Waterproofing Membrane System	Sq Yd	359
Portland Cement Mortar Fairing Course	Foot	754
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	30
Bridge Railing Erection	Foot	216

INDEX OF SHEETS

- General Plan and Elevation
- Superstructure
- Deck Beams
- Railings
- Pier Modification
- 6.-14. Existing Plans



LOCATION SKETCH

GENERAL PLAN AND ELEVATION

GARDNER ROAD (FAS 292)

OVER W. FORK MAZON RIVER

SEC. 19-00176-00-BR

GRUNDY COUNTY

STATION 5+01

S.N. 032-5551 (EX & PROP)

DRAWN BY: KED	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: JLS				
DATE: 02/2024				



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OTTAWA MENDOTA
ILLINOIS

FAS 292 GARDNER ROAD
SECTION 19-00176-00-BR
GRUNDY COUNTY

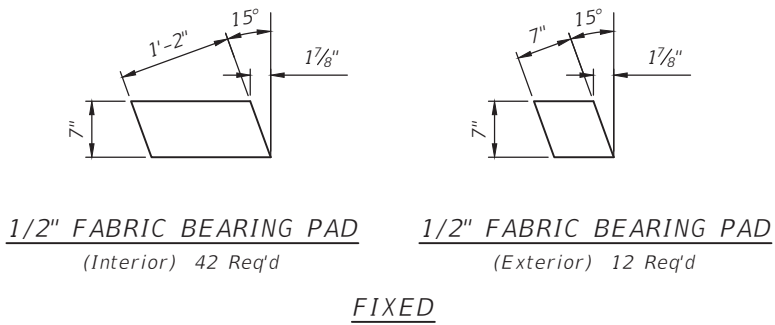
GENERAL PLAN AND ELEVATION
S.N. 032-5551 (E)(P)

SHEET 1 of 14 SHEETS

BID SET

CURRENT AS OF: 04/05/2024	
SCALE: AS NOTED	SHEET 25
FILE NO.: 111598.00 Y-	OF 38

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	19-00176-00-BR	GRUNDY	38	26
		ILLINOIS	CONTRACT NO. 87849	

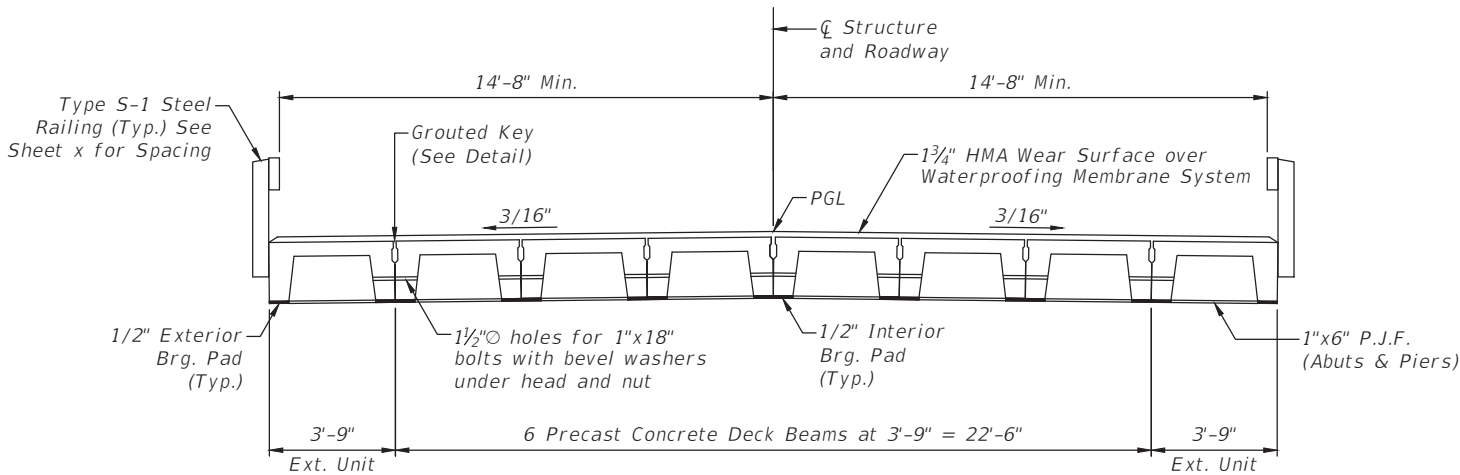


PRECAST NOTES:

This work shall be done and paid for in accordance with section 504 of the Standard Specifications effective January 1, 2022, including current supplemental specifications. In case of conflict these notes shall take precedence. QC/QA shall be performed in accordance with IDOT Bureau of Materials policy memorandum 19-08.

All transverse tie assemblies (nuts, bolts, and washers) shall be hot dipped galvanized in accordance with AASHTO M 232.

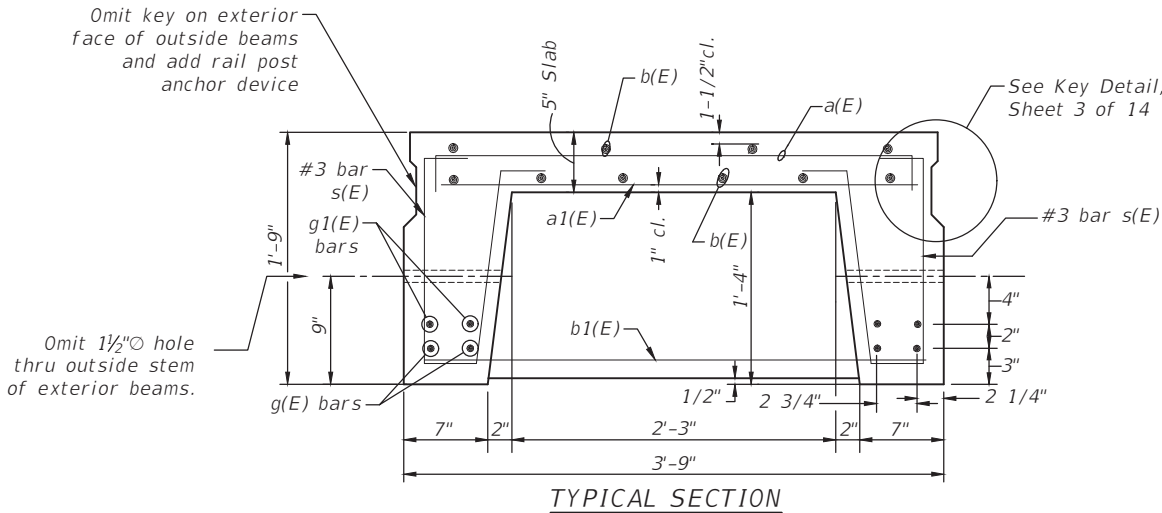
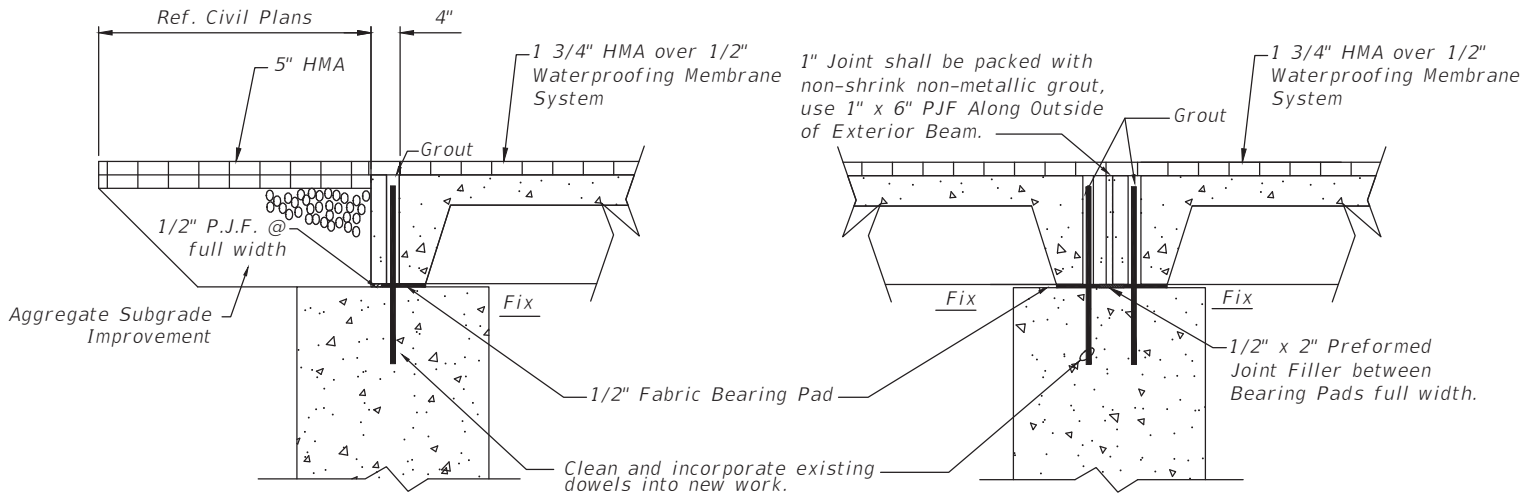
Cost of reinforcement and accessories cast into slab unit, of bearing pads, furnishing, drilling for, placing and grouting anchor dowels, of furnishing and assembling of 1"Ø bolts, and of grouting longitudinal shear key is included in unit bid price for "Precast Concrete Bridge Slab."



NOTES

The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.

Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.



NOTE:

Tack welding of stirrups to the bottom longitudinal rebars will not be permitted except as otherwise authorized in writing by the Engineer.

BILL OF MATERIAL

Item	Unit	Quantity
Hot-Mix Asphalt Surface Course	Ton	36

CHAMLIN & ASSOCIATES, INC. © 2024
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Plotted On: Friday, April 5, 2024 12:35:32 PM

DRAWN BY: KED	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: JLS				
DATE: 02/2024				



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ILLINOIS

FAS 292 GARDNER ROAD
SECTION 19-00176-00-BR
GRUNDY COUNTY

SUPERSTRUCTURE
S.N. 032-5551 (E)(P)

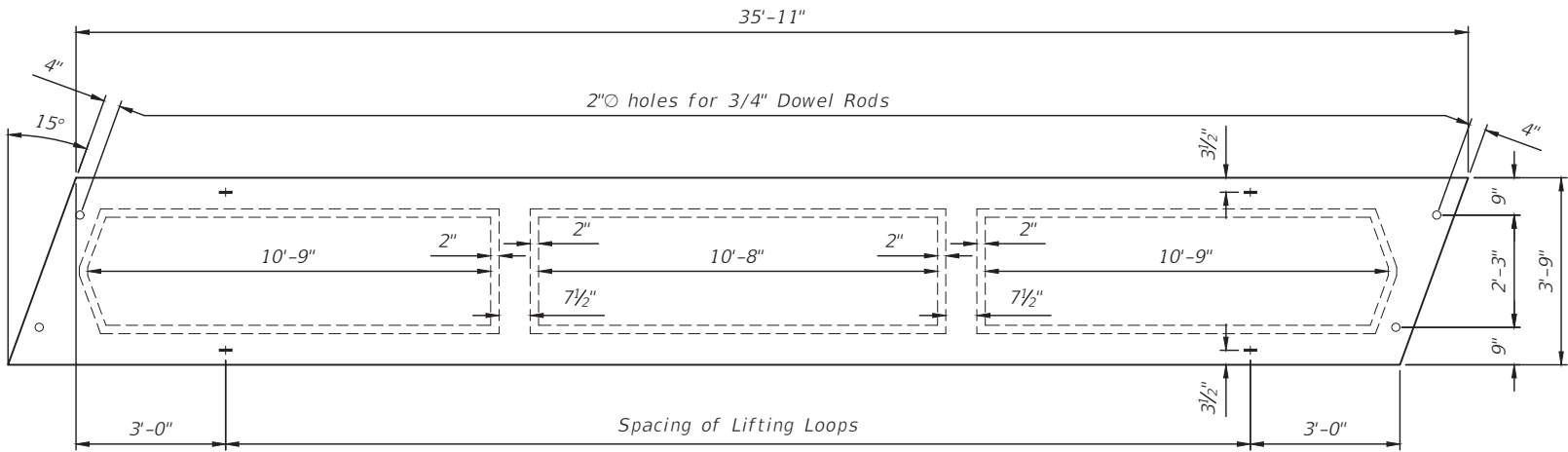
SHEET 2 of 14 SHEETS

BID SET

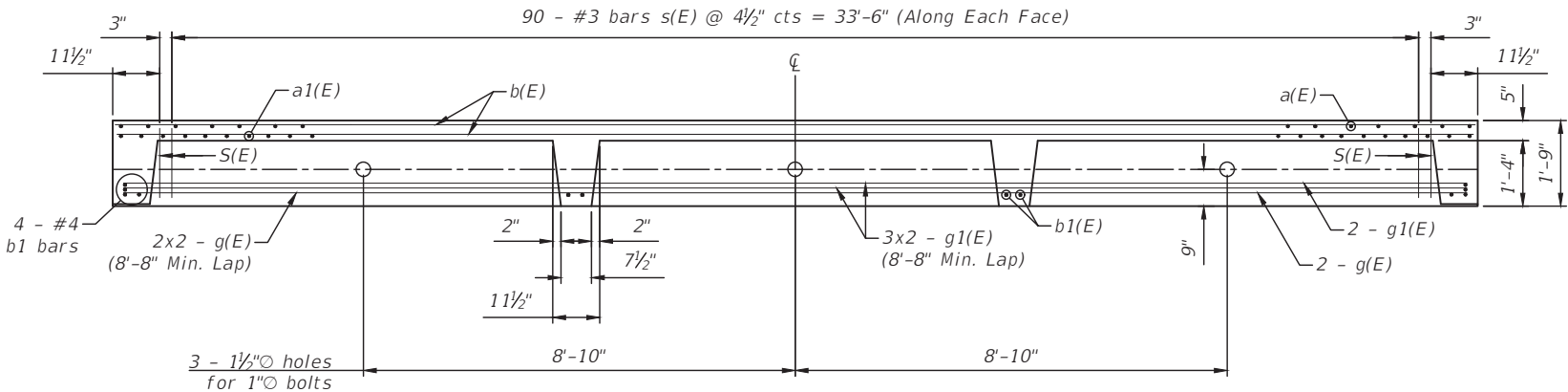
CURRENT AS OF: 04/05/2024	
SCALE: AS NOTED	SHEET 26
FILE NO.: 111598.00 Y-	OF 38

CHAMLIN & ASSOCIATES, INC. © 2024
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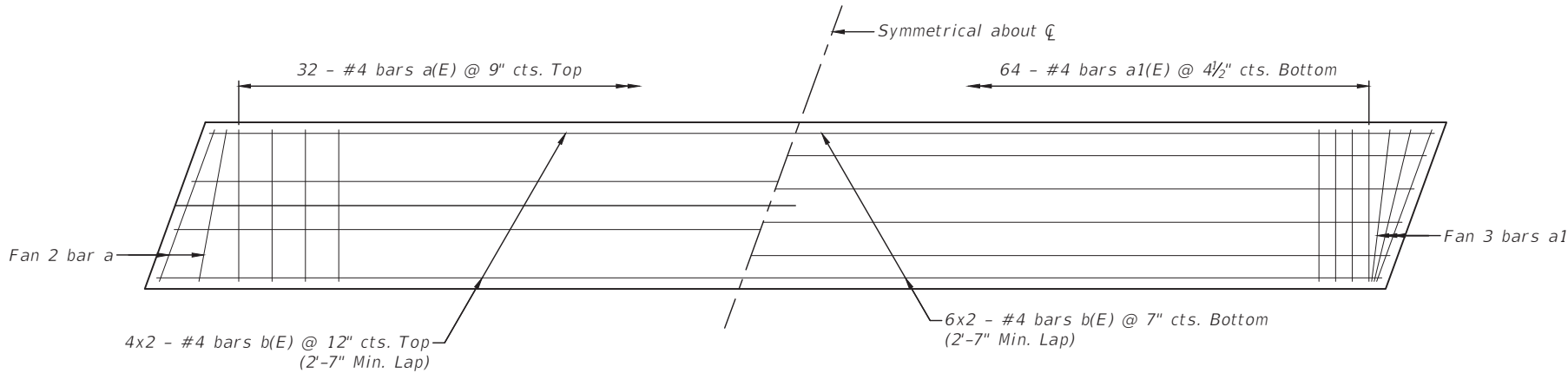
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	19-00176-00-BR	GRUNDY	38	27
		ILLINOIS	CONTRACT NO. 87849	



TYPICAL PLAN OF BEAM



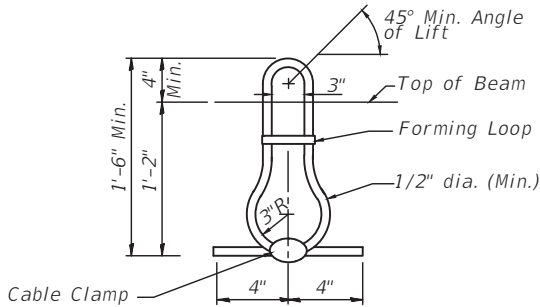
SECTION ALONG ϕ OF BEAM



TOP

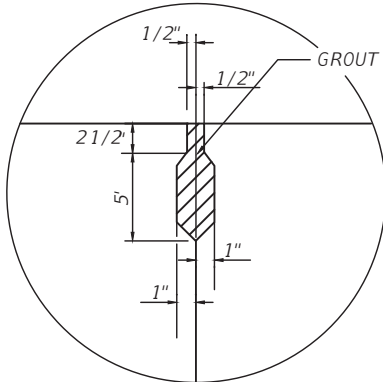
BOTTOM

PLAN SHOWING SLAB REINFORCEMENT



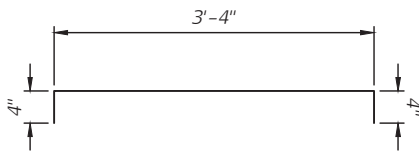
LIFTING LOOP DETAIL
96 REQ'D

NOTE:
Lifting Loops shall be 6x25 class wire rope with fiber core. Min. ultimate tensile strength shall be 21,000 lbs. Loops shall be burned off after beams have been erected.

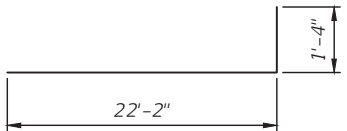


KEY DETAIL

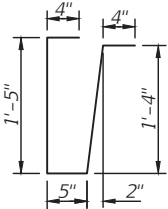
Longitudinal shear key shall be packed with a non-shrink grout.



a(E) BARS



BARS g(E)



s(E) BARS

*BILL OF MATERIAL
FOR (1) 35'-11" LONG PRECAST BEAM

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	47	#4	4'-0"	┌───┐
a1(E)	95	#4	3'-3"	───
b(E)	20	#4	19'-0"	───
b1(E)	12	#4	3'-6"	───
g(E)	8	#11	23'-6"	└───┘
g1(E)	8	#11	22'-2"	───
s(E)	188	#3	3'-10"	┌┴┐
Class PC Concrete			Cu. Yd.	4.9
Reinforcement Bars			Pound	3300

* For Precast Mfr. Info. Only (24 Beams Required)

- NOTES:
1. See Sheet 2 of 14 for additional information.
2. Reinforcement bars designated (E) shall be epoxy coated.

BILL OF MATERIAL

Item	Unit	Quantity
Precast Concrete Bridge Slab	Sq Ft	3233

DRAWN BY: KED	LEVEL	BY	DATE	REVISIONS	DESCRIPTION
CHECKED BY: JLS					
DATE: 02/2024					



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ILLINOIS

FAS 292 GARDNER ROAD
SECTION 19-00176-00-BR
GRUNDY COUNTY

PRECAST DECK BEAM DETAILS
S.N. 032-5551 (E)(P)

SHEET 3 of 14 SHEETS

BID SET

CURRENT AS OF: 04/05/2024	
SCALE: AS NOTED	SHEET 27
FILE NO.: 111598.00 Y-	OF 38

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	19-00176-00-BR	GRUNDY	38	28
		ILLINOIS	CONTRACT NO. 87849	

NOTES

The existing rails, posts and angles shall be salvaged from existing bridge (included in REMOVAL OF EXISTING SUPERSTRUCTURE) and re-installed with new bolts for angles to posts and angles to new anchor devices. Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for BRIDGE RAILING ERECTION.

Steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36.

Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A 307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M 164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized according to AASHTO M 232.

Anchor devices shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385.

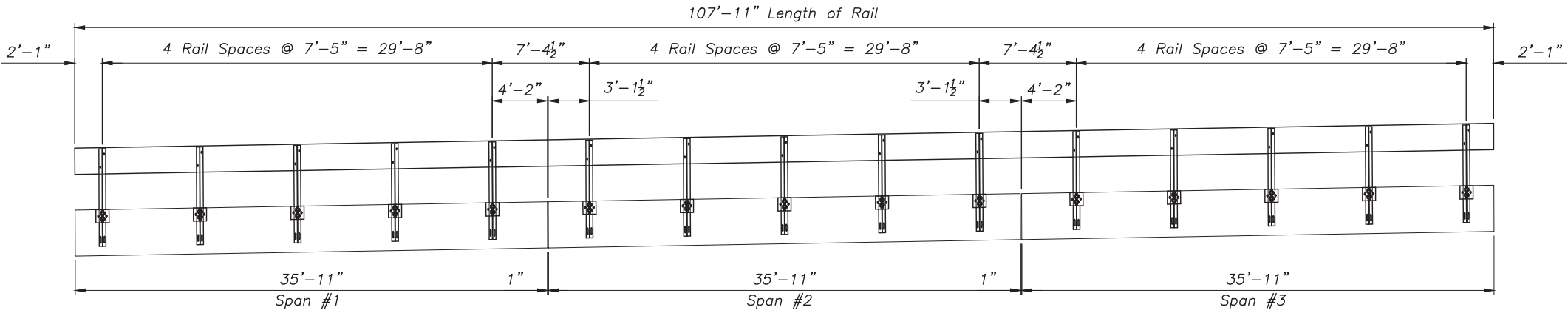
All field drilled holes shall be coated with an approved zinc rich paint before erection.

The lower portion of the post flange that comes in contact with concrete shall receive two coats of asphalt paint conforming to Section 1060.07 Type II or place 1/8" fabric bearing pad between the post and concrete.

The 3/4" Ø high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened according to Article 505.04(f)(2) of the Standard Specifications. The 1" Ø high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/8 turn. The 5/8" Ø cap screws in bottom of posts shall be tightened to a snug fit only.

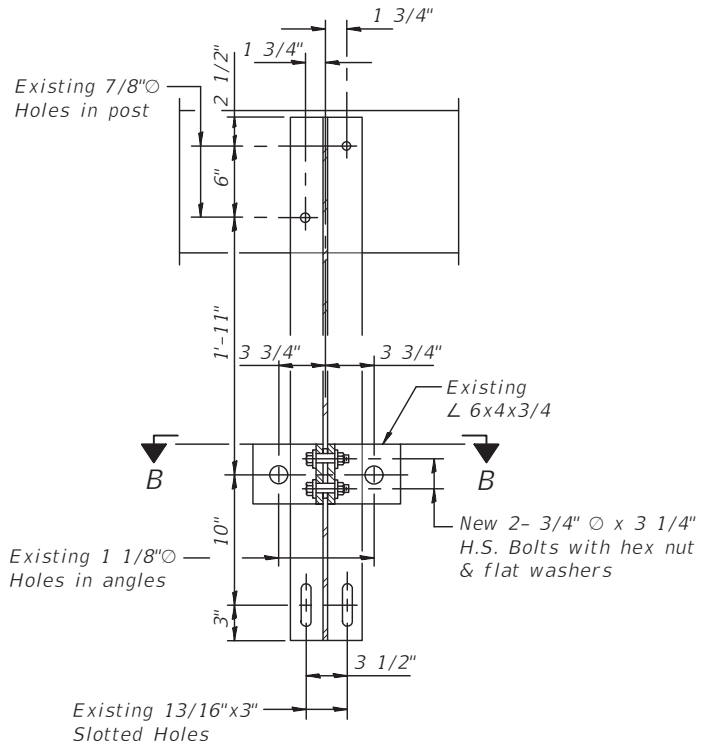
A sufficient number of varying thicknesses of galvanized steel shims 6" x 1'-4" shall be provided to align rail between adjacent spans. If the summation of shims is greater than 1/4", longer bolts are required. Cost included with BRIDGE RAILING ERECTION.

Refer to existing bridge plans for original rail details.

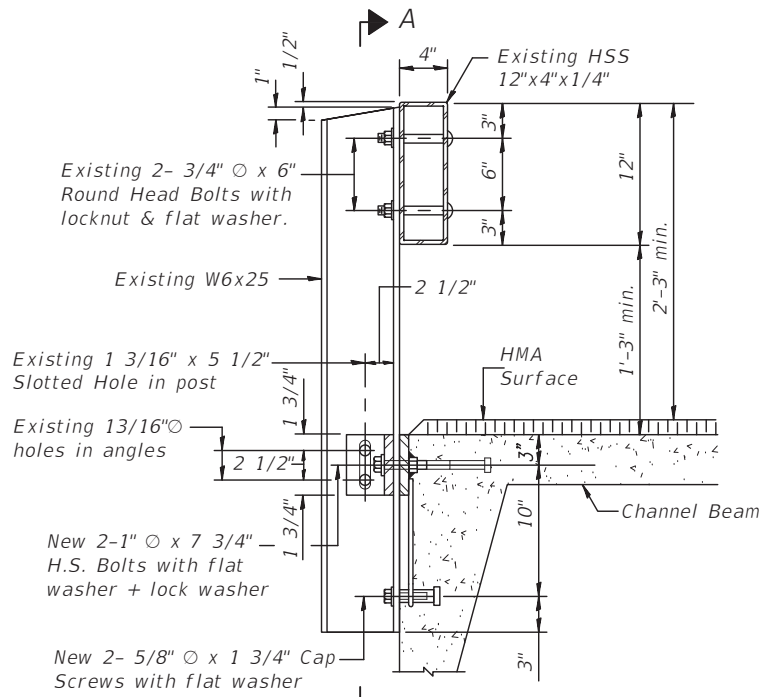


ELEVATION

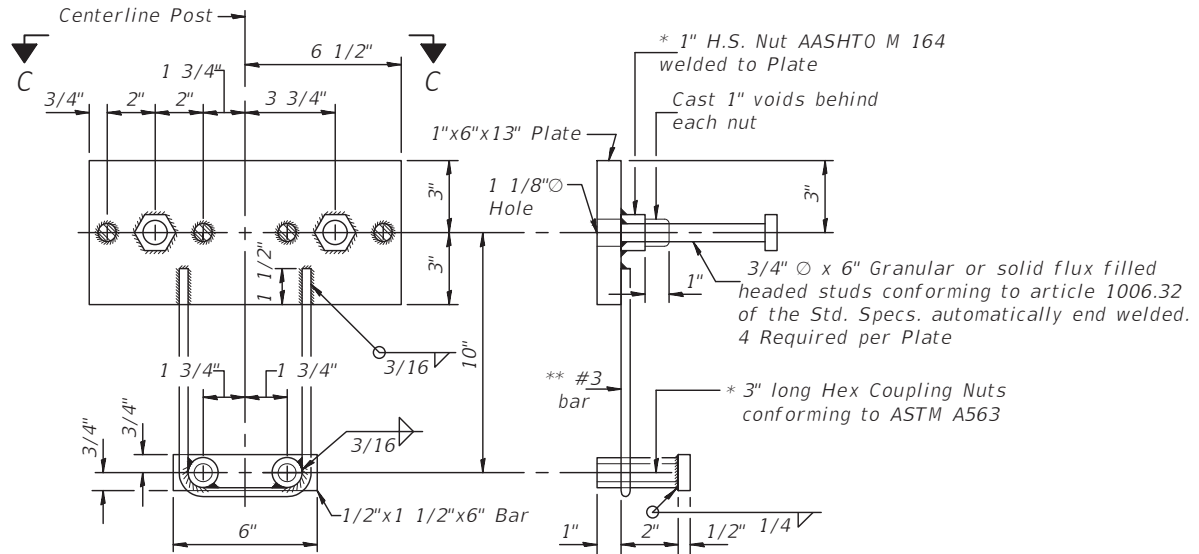
(Contractor shall take exact post spacing measurements in field prior to salvage and transmit this information to beam fabricator.)



SECTION A-A



SECTION AT RAIL POST



NEW ANCHOR DEVICE (20 REQUIRED)

- * Threaded areas shall be plugged or blocked off during casting of beam.
- ** Whenever the lower insert assemblies interfere with reinforcement bars, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adustment not exceed 1/2".

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Railing Erection	Foot	216

CHAMLIN & ASSOCIATES, INC. © 2024
Drawing Name: H:\A\028\11111598-00 GRUNDY CO HWY GARDNER RD BRIDGES\CAD\PLANS\028-RAILING 5551.dwg
Last Modified: Wednesday, April 3, 2024 4:17:42 PM
Plotted On: Thursday, April 4, 2024 10:06:32 AM

REVISIONS	LEVEL	BY	DATE	DESCRIPTION
DRAWN BY: KED				
CHECKED BY: JLS				
DATE: 02/2024				



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ILLINOIS

FAS 292 GARDNER ROAD
SECTION 19-00176-00-BR
GRUNDY COUNTY

STEEL RAILING, TYPE S-1
S.N. 032-5551 (E)(P)

SHEET 4 of 14 SHEETS

BID SET

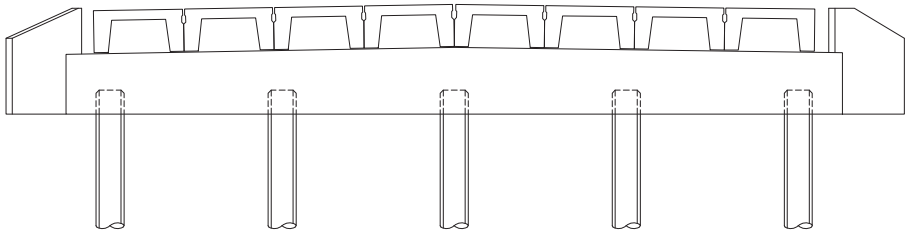
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SCALE: AS NOTED

FILE NO.: 111598.00 Y-

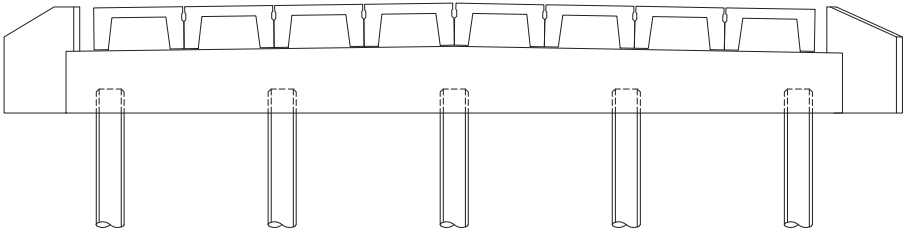
SHEET 28 OF 38

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	19-00176-00-BR	GRUNDY	38	29
		ILLINOIS	CONTRACT NO. 87849	

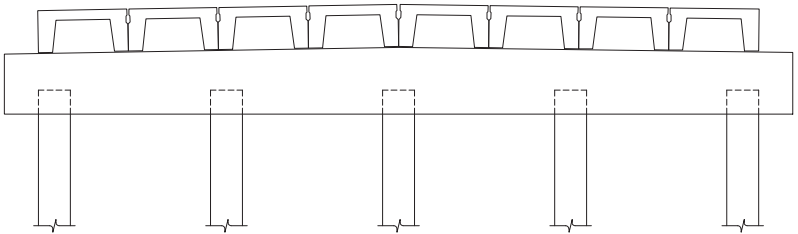


WEST ABUTMENT
(LOOKING EAST)

No
Repair

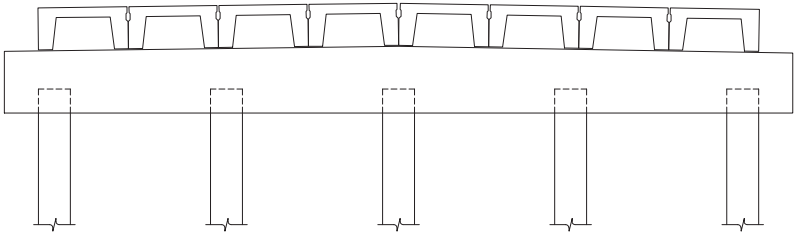


WEST ABUTMENT
(LOOKING WEST)

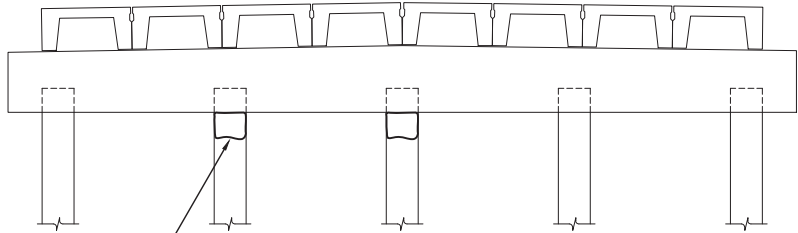


PIER #1
(LOOKING EAST)

No
Repair



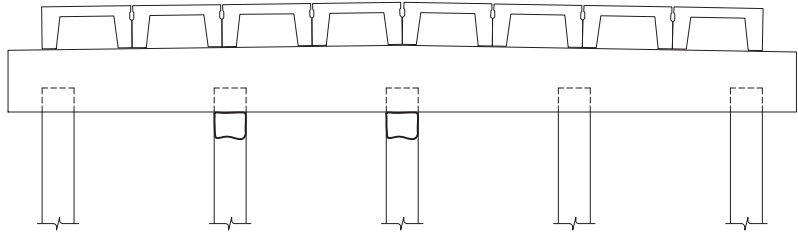
PIER #1
(LOOKING WEST)



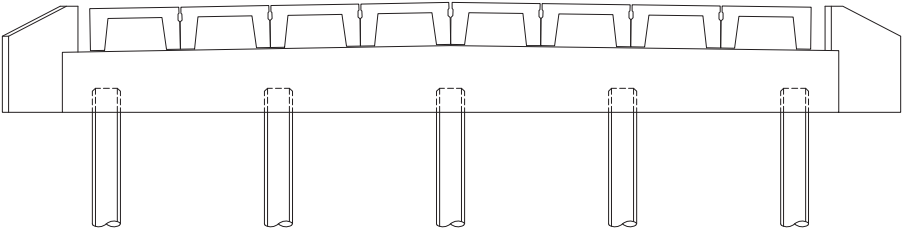
Structural
Repair of
Concrete, Typ

PIER #2
(LOOKING EAST)

Structural Repair of Concrete
(Depth Equal to or less than 5 inches)
30 Sq Ft

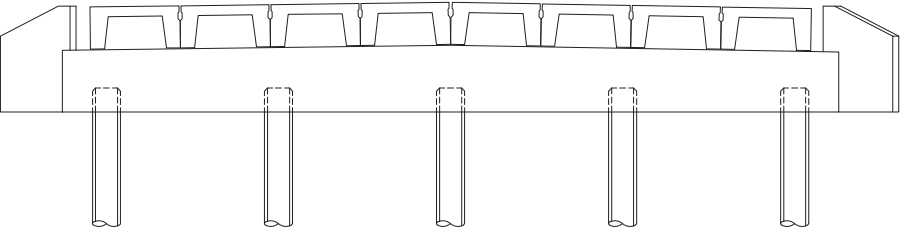


PIER #2
(LOOKING WEST)



EAST ABUTMENT
(LOOKING EAST)

No
Repair



EAST ABUTMENT
(LOOKING WEST)

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Drawing Name: H:\ADCE\1111598-00 GRUNDY CO HWY GARDNER RD BRIDGES\CAD\PLANS\029-PIER MOD 5551.dwg Last Modified: Thursday, April 4, 2024 9:58:45 AM Plotted On: Thursday, April 4, 2024 10:06:37 AM

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CHECKED BY: JLS	LEVEL	BY	DATE	DESCRIPTION
DATE: 02/2024				



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ILLINOIS

FAS 292 GARDNER ROAD
SECTION 19-00176-00-BR
GRUNDY COUNTY

STRUCTURAL REPAIR OF CONCRETE
S.N. 032-5551 (E)(P)
SHEET 5 of 14 SHEETS

BID SET

CURRENT AS OF: 04/05/2024	
SCALE: AS NOTED	SHEET 29
FILE NO.: 111598.00 Y-	OF 38

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
292	19-00176-00-BR	GRUNDY	38	30
ILLINOIS CONTRACT NO. 87849				

F.A.S. ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

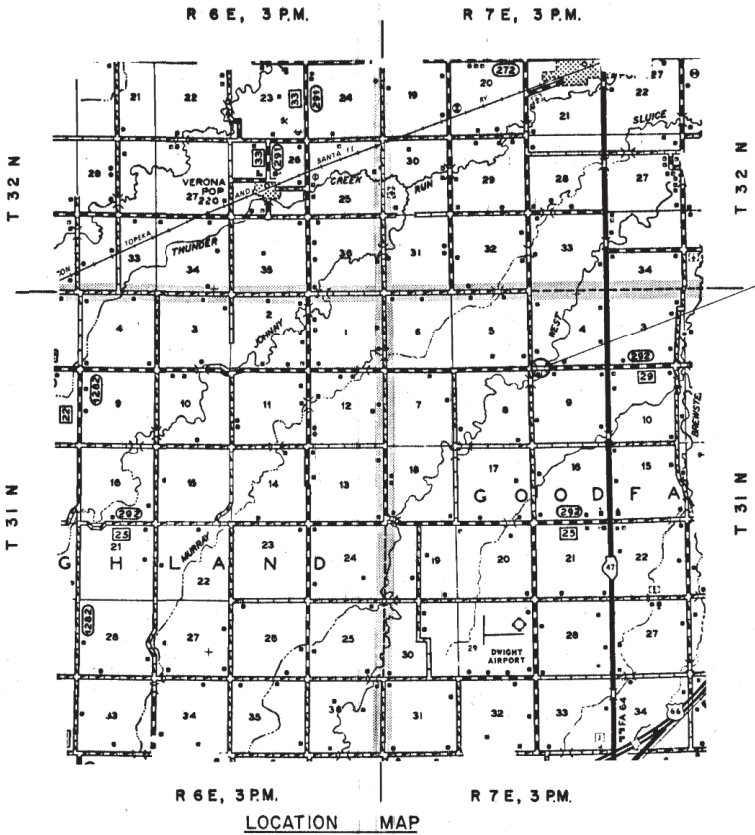
INDEX OF SHEETS	
SHEET NO.	TITLE
1.	COVER SHEET
2.	PLAN & PROFILE
3.	GENERAL PLAN & ELEVATION
4.	SUPERSTRUCTURE
5.	SUBSTRUCTURE
6.	STEEL RAILING, TYPE S-1
7.	PILE DETAILS
8.	ROADWAY SECTIONS
STANDARD 2113	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
TOWNSHIP BRIDGE
PROGRAM PROJECT
GOODFARM ROAD DISTRICT SEC.80-06102-01-BR
GRUNDY COUNTY

PLAN ——— 1 INCH = 50 FEET
PROFILE HOR. ——— 1 INCH = 50 FEET
PROFILE VERT. ——— 1 INCH = 5 FEET

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	UNIT	QUANTITY
201001	TREE REMOVAL (6 TO 15 INCH DIAMETER)	INCH DIA.	18
201002	TREE REMOVAL (OVER 15 INCH DIAMETER)	INCH DIA.	48
207001*	EMBANKMENT	CU. YD.	859
402008	AGGREGATE SURFACE COURSE, TYPE B	TONS.	728
501001	REMOVAL OF EXISTING STRUCTURES	EACH	1
504003	CLASS X CONCRETE	CU. YD.	58.8
505001	PRECAST CONCRETE BRIDGE SLAB	SQ. FT.	3233
511025	PIPE CULVERTS, TYPE 1, 15"	LIN. FT.	82
512001	REINFORCEMENT BARS	LBS.	8550
513022	FURNISHING CONCRETE PILES	LIN. FT.	153
513028	DRIVING CONCRETE PILES	LIN. FT.	153
513042	TEST PILE CONCRETE	EACH	1
514001	NAME PLATES	EACH	1
X50809	STEEL RAILING TYPE S-1	LIN. FT.	216

*SPECIAL PROVISION
JOB NO.
CONTRACT NO.



PROPOSED STRUCTURE—THREE SPANS & 35', PRECAST CONCRETE BRIDGE SLAB, STEEL RAILING TYPE S-1, 20'-4" CLEAR ROADWAY. ABUTMENTS ARE R.C. CAPS ON CONCRETE PILES, PIERS ARE R.C. COLUMN BENTS ON SPREAD FOOTINGS, 109'-9 3/4" BACK TO BACK OF ABUTMENTS, 15' SKEW LT. FORWARD, STA. 5+01.
IMPROVEMENT BEGINS STA. 2+25
IMPROVEMENT ENDS STA. 9+50

NET LENGTH OF SECTION = 724.00 FEET = 0.1371 MILES



PREPARED BY
AUBY, OGLESBY & BARTOLOMUCCI
ENGINEERS & SURVEYORS

Robert E. Oglesby
Illinois Professional
No. 21190
Nov. 17, 1981



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
APPROVED	29.18.1982
LOCAL AGENCY OFFICIAL	
PASSED	19
DISTRICT ENGINEER OF LOCAL ROADS & STREETS	
APPROVED	19
DISTRICT ENGINEER	
80-45	Sht. 1 of 9

FOR INFORMATION ONLY

REVISIONS				
LEVEL	BY	DATE	DESCRIPTION	



PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

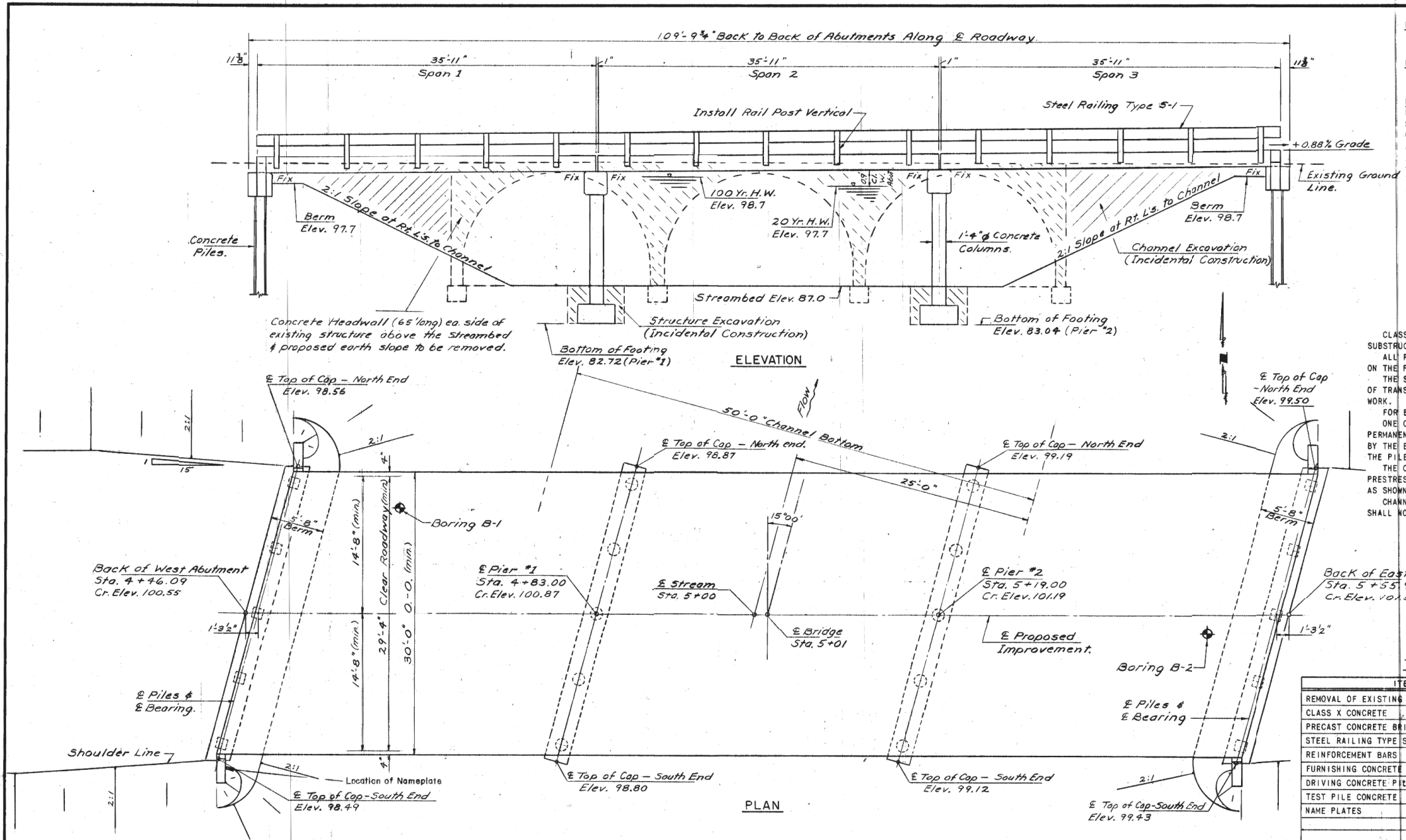
FAS 292 GARDNER ROAD
SECTION 19-00176-00-BR
GRUNDY COUNTY

EXISTING PLANS
S.N. 032-5551 (E)(P)
SHEET 6 of 14 SHEETS

BID SET

CURRENT AS OF: 04/05/2024	
SCALE: AS NOTED	SHEET 30
FILE NO.: 111598.00 Y-	OF 38





B. M. #1 - R. R. SPIKE IN NORTH SIDE OF POWER POLE 22' RT. STA. 0+53. ELEV. 99.90

B. M. #2 - R. R. SPIKE IN SOUTH SIDE OF POWER POLE 20' LT. STA. 8+10. ELEV. 102.84

EXISTING STRUCTURE - THREE 12' X 20' C.M.P. 19' ROADWAY WIDTH, 1' X 85' CONCRETE HEADWALLS EACH SIDE OF ROADWAY, 15' LONG CONCRETE WINGWALLS & CONCRETE ABUTMENTS FROM ORIGINAL STRUCTURE AT EACH END.

EXISTING STRUCTURE - TO BE REMOVED BY THE CONTRACTOR.

EXISTING STRUCTURE NO. 032-5550

GENERAL NOTES

CLASS X CONCRETE SHALL BE USED THROUGHOUT THE SUBSTRUCTURE.

ALL REINFORCEMENT BARS SHALL BE LAPPED AS SHOWN ON THE PLANS.

THE STANDARD SPECIFICATIONS ADOPTED BY THE DEPT. OF TRANSPORTATION OCT. 1, 1979 SHALL APPLY TO THIS WORK.

FOR BORING DATA, SEE THE PROPOSAL.

ONE CONCRETE TEST PILE SHALL BE DRIVEN IN A PERMANENT LOCATION IN THE EAST ABUTMENT AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF THE PILES.

THE CONTRACTOR MAY USE PRECAST CONCRETE, PRECAST PRESTRESSED CONCRETE, OR METAL SHELL CONCRETE PILES AS SHOWN ON SHEET 7.

CHANNEL EXCAVATION AND STRUCTURE EXCAVATION SHALL NOT BE PAID FOR AS SEPARATE ITEMS.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
REMOVAL OF EXISTING STRUCTURES	EACH	—	—	1
CLASS X CONCRETE	CU. YD.	—	58.6	58.6
PRECAST CONCRETE BRIDGE SLAB	SQ. FT.	3233	—	3233
STEEL RAILING TYPE S-1	LIN. FT.	216	—	216
REINFORCEMENT BARS	LBS.	—	8550	8550
FURNISHING CONCRETE PILES	LIN. FT.	—	153	153
DRIVING CONCRETE PILES	LIN. FT.	—	153	153
TEST PILE CONCRETE	EACH	—	1	1
NAME PLATES	EACH	1	—	1

WATERWAY DATA

DRAINAGE AREA 57 SQ. MI.

PRESENT OPENING 591 SQ. FT.

REQUIRED OPENING 735 SQ. FT.

PROPOSED OPENING 735 SQ. FT.

DESIGN DISCHARGE 2955 C.F.S. (20 YR.)

CREATED HEAD LESS THAN 0.5 FT.

100 YR. DISCHARGE 4150 C.F.S.

CREATED HEAD LESS THAN 1.0 FT.

NO OVERTOPPING FLOOD

DESIGN STRESSES

SUPERSTRUCTURE	SUBSTRUCTURE
$f'_c = 4,500$ P.S.I.	$f'_c = 3,600$ P.S.I.
$f_c = 1,800$ P.S.I.	$f_c = 1,400$ P.S.I.
$f_s = 20,000$ P.S.I.	$f_s = 20,000$ P.S.I.
$n = 8$	$n = 9$
	$v = 58.2$ P.S.I.

DESIGN SPECIFICATIONS - A.A.S.H.T.O. 1977 & INTERIMS OF 1978, 1979, 1980, & 1981 AS APPLICABLE.

DESIGN PROVIDES FOR FUTURE WEARING SURFACE OF 25 P.S.F.

DESIGN FOOTING PRESSURE = 1.57 TONS SQ. FT.

LOADING HS 20 44

APPROVED FOR
STRUCTURAL ADEQUACY

Robert E. Hite
ILLINOIS STRUCTURAL
NO. 2675



GENERAL PLAN & ELEVATION
SEC. 80-06102-01-BR
GOODFARM ROAD DISTRICT
GRUNDY COUNTY
STATION 5+01

aubrey, oglesby & bartolomucci
1323 south first street / springfield, illinois 62704
consulting engineers
land surveyors
planners

DRAWN
CHECKED

CST
Red

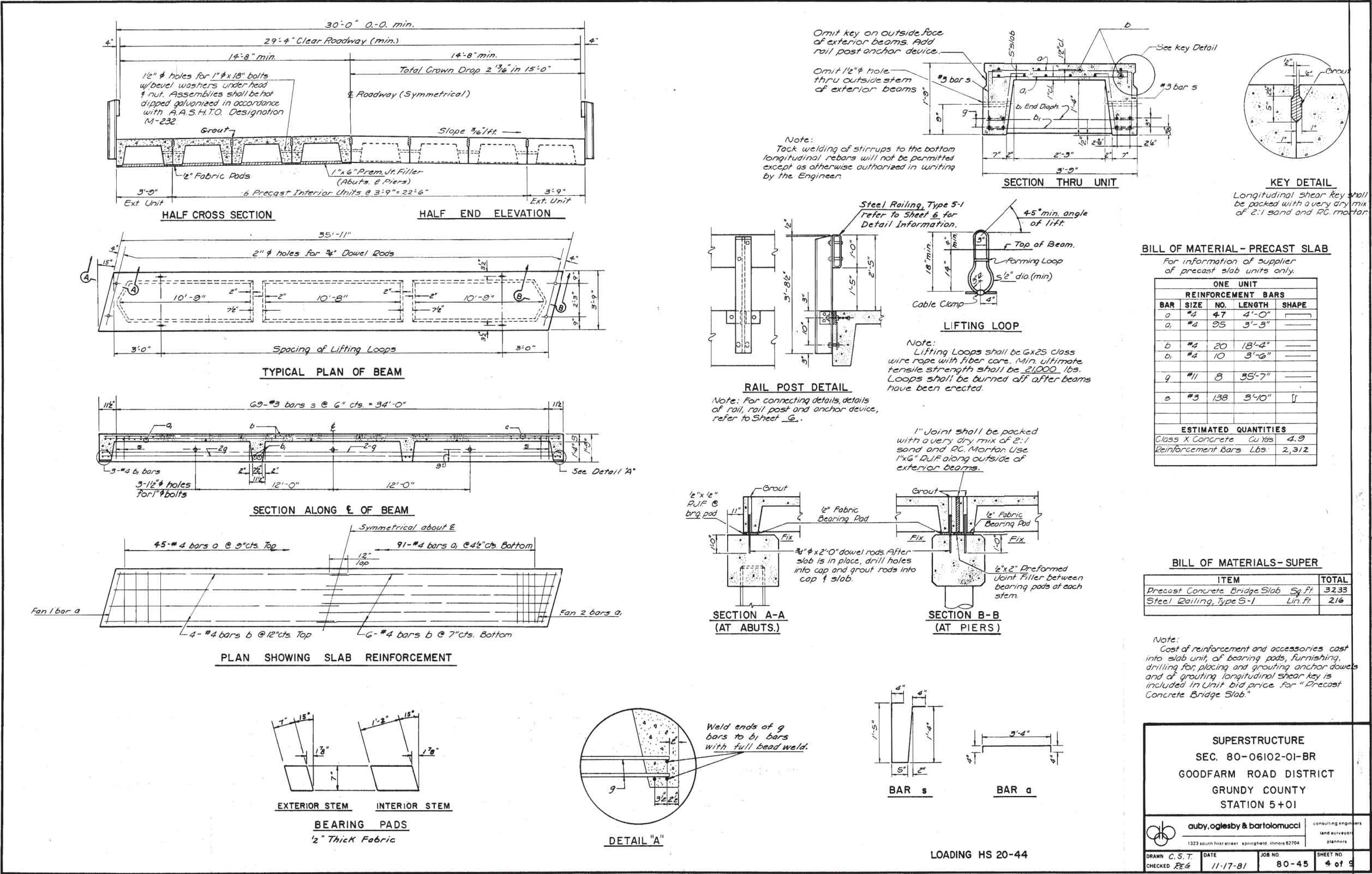
DATE
11-17-81

JOB NO.
80-45

SHEET NO.
3 of 9

FOR INFORMATION ONLY

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Last Modified: Saturday, March 16, 2024 3:16:26 PM
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DATE: 02/2024					



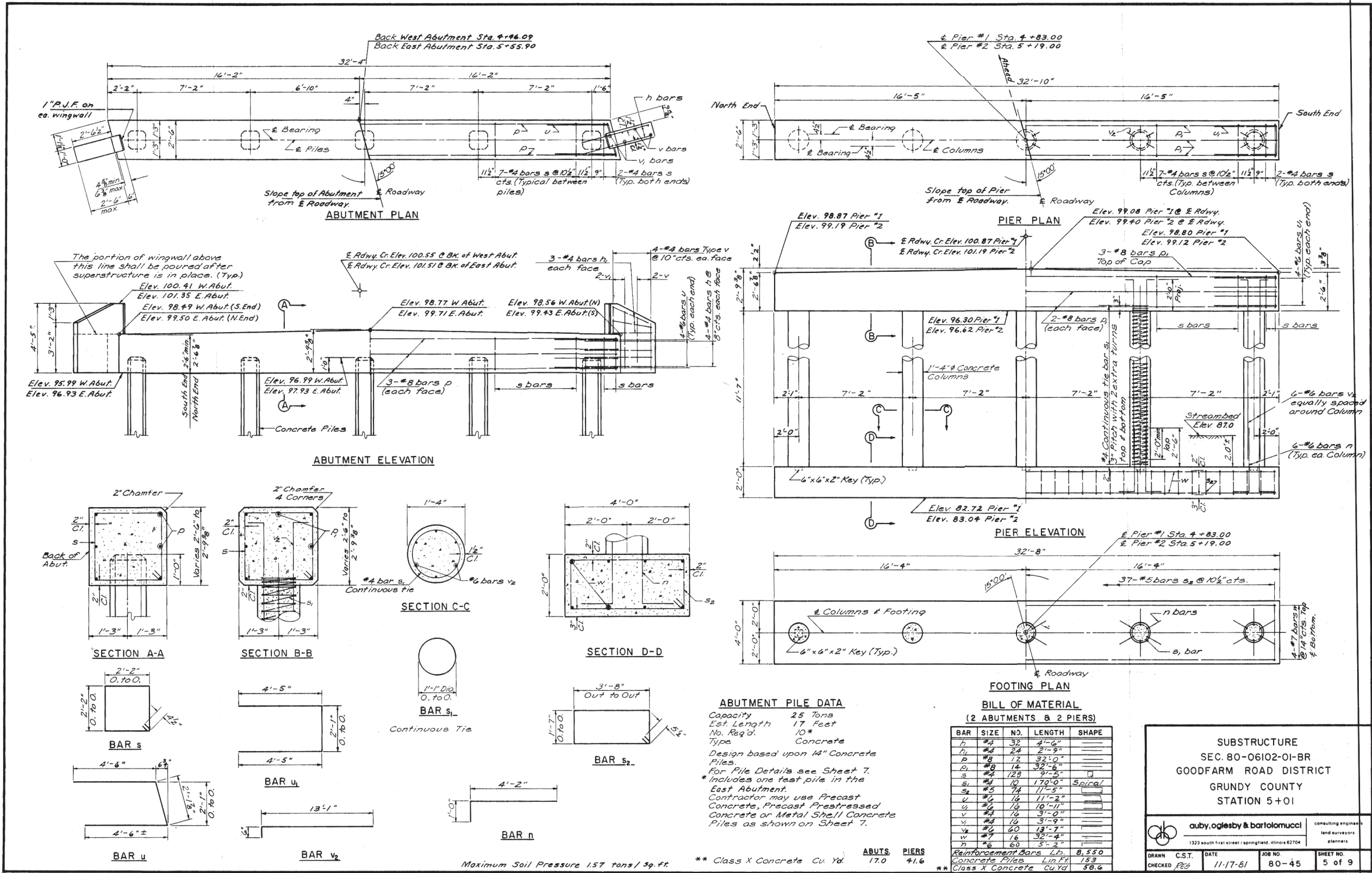
PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

FAS 292 GARDNER ROAD
SECTION 19-00176-00-BR
GRUNDY COUNTY

EXISTING PLANS
S.N. 032-5551 (E)(P)
SHEET 9 of 14 SHEETS

BID SET

CURRENT AS OF: 04/05/2024
SCALE: AS NOTED
FILE NO.: 111598.00 Y-
SHEET 33
OF 38



SUBSTRUCTURE
SEC. 80-06102-01-BR
GOODFARM ROAD DISTRICT
GRUNDY COUNTY
STATION 5+01

auby, oglesby & bartolomucci consulting engineers
land surveyors
planners
1323 south first street, springfield, illinois 62704

DRAWN	C.S.T.	DATE	JOB NO.	SHEET NO.
CHECKED	Per	11-17-81	80-45	5 of 9

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CHECKED BY: JLS					
DATE: 02/2024					

CA
Chamlin & Associates

PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

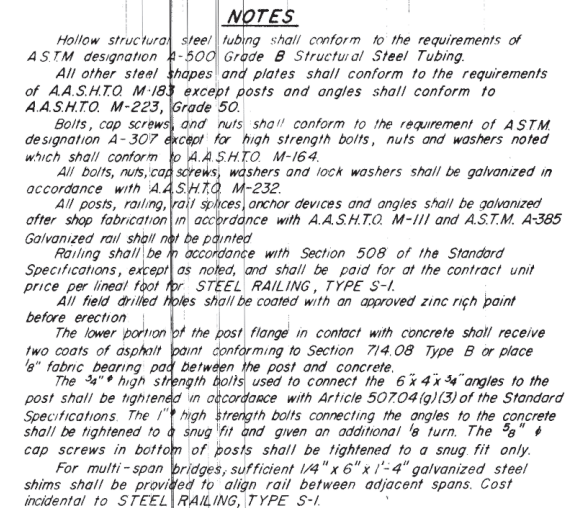
FAS 292 GARDNER ROAD
SECTION 19-00176-00-BR
GRUNDY COUNTY

EXISTING PLANS
S.N. 032-5551 (E)(P)
SHEET 10 of 14 SHEETS

BID SET

CURRENT AS OF: 04/05/2024	
SCALE: AS NOTED	SHEET 34
FILE NO.: 111598.00 Y-	OF 38

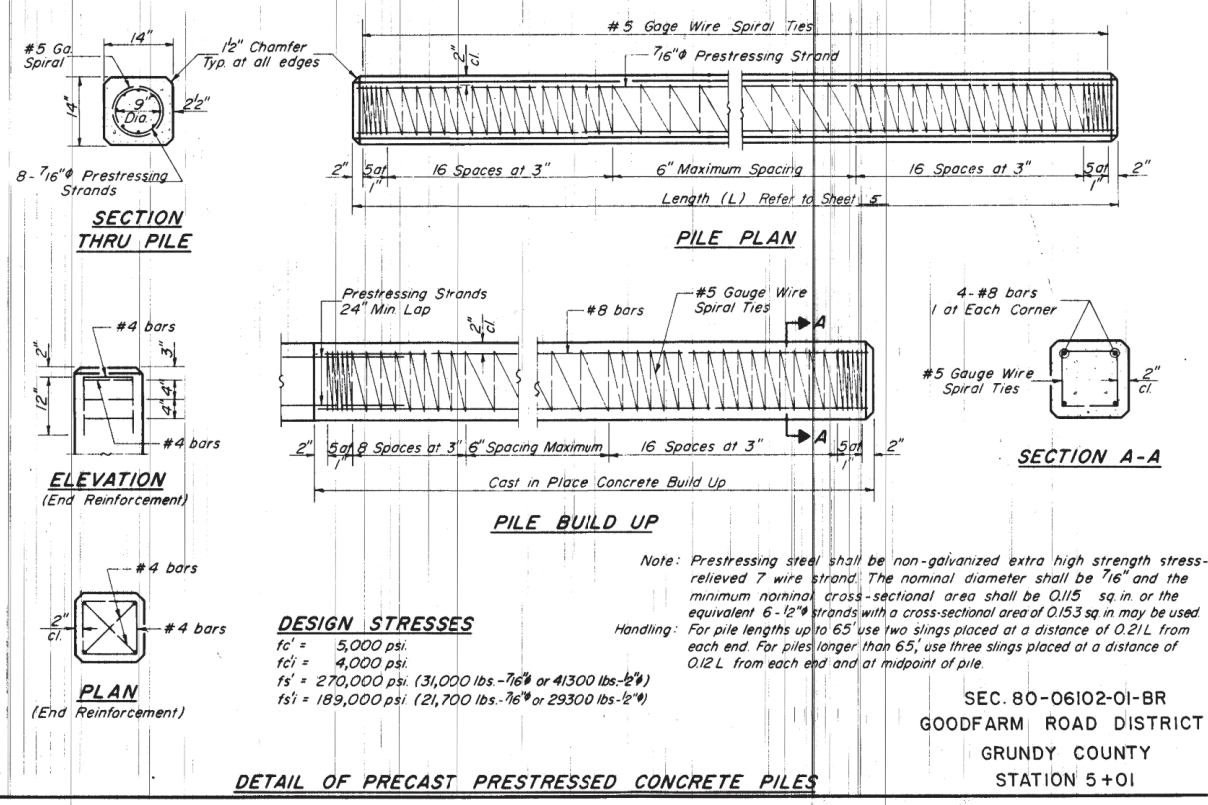
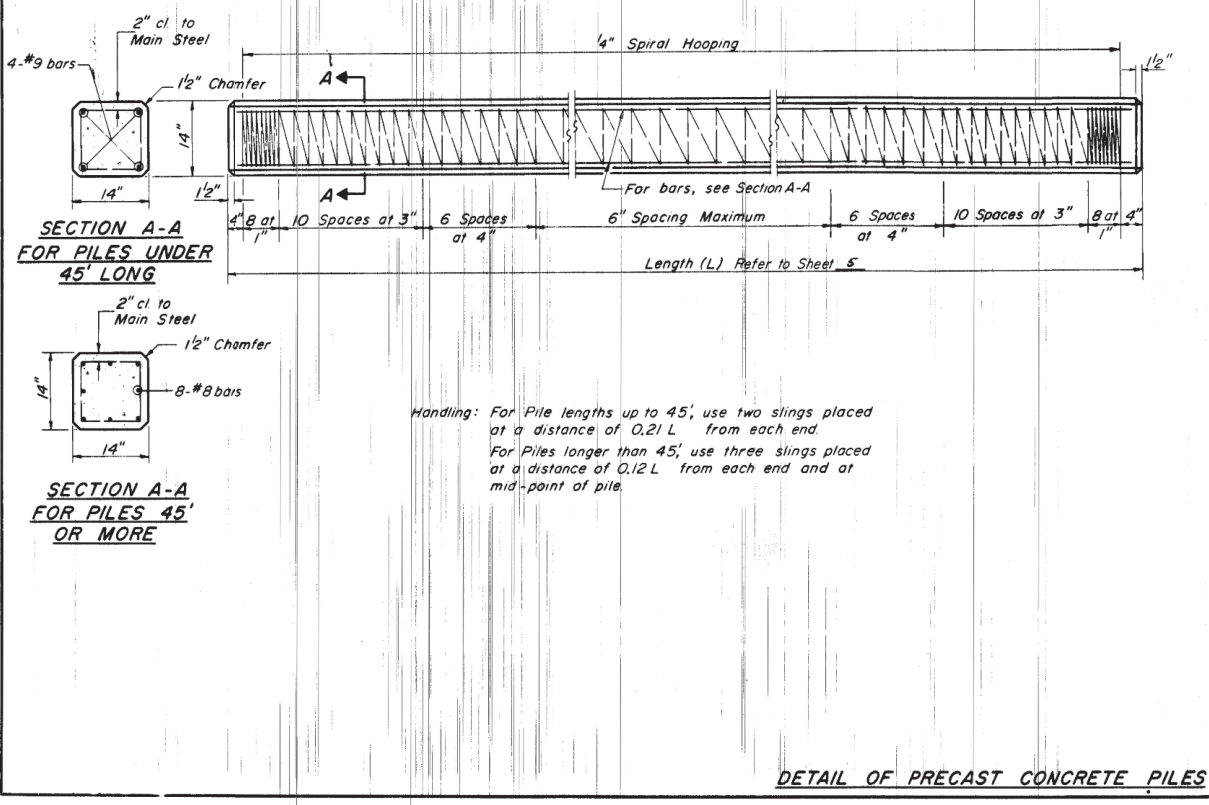
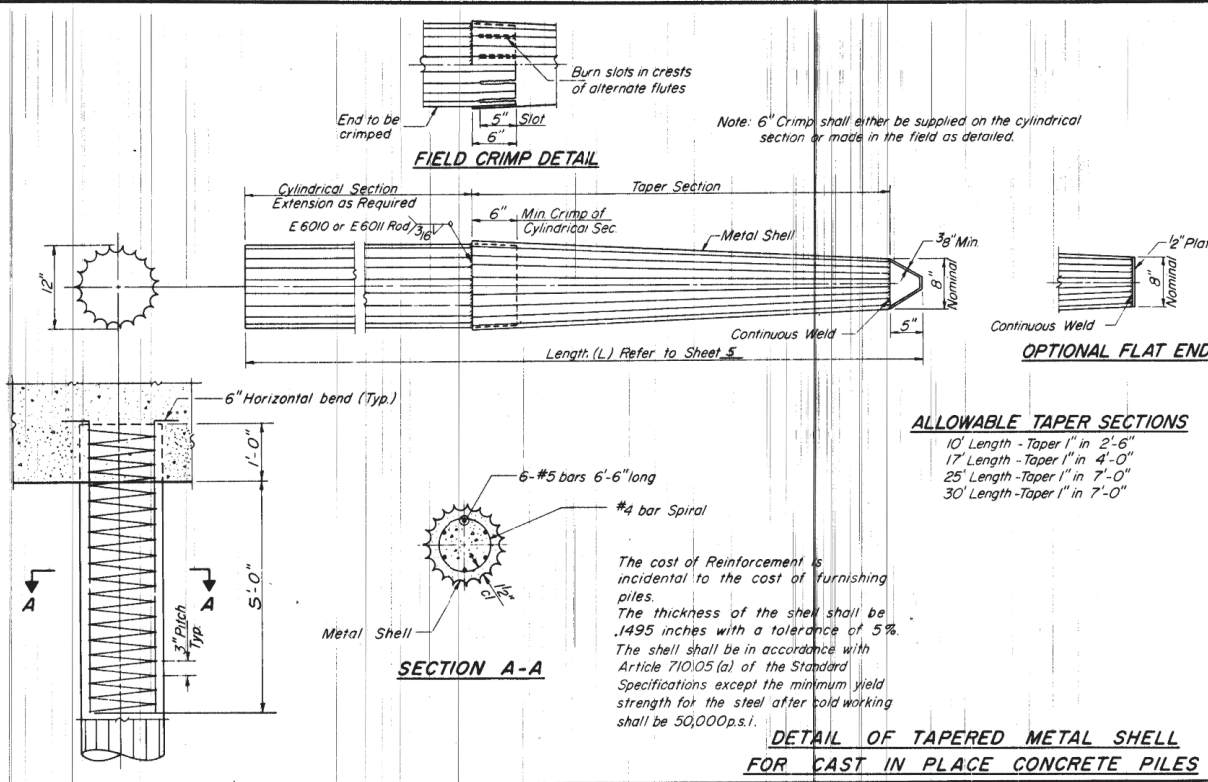
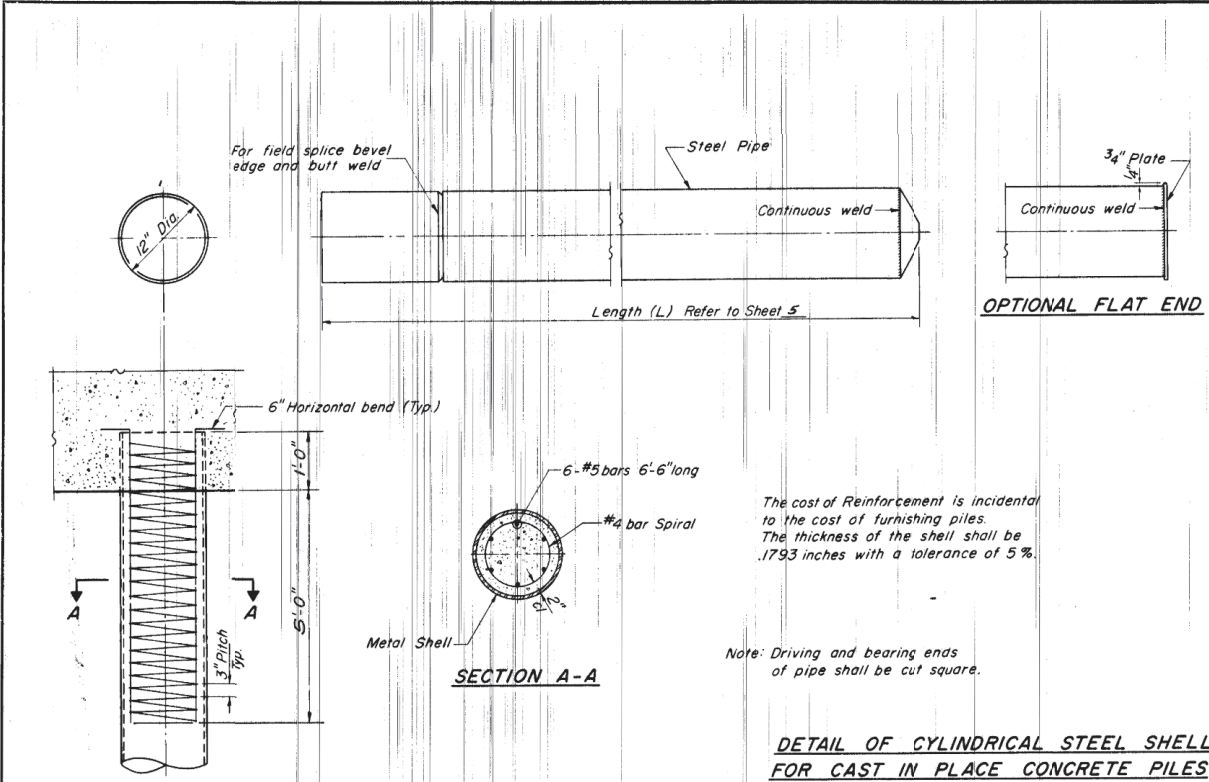
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STEEL RAILING TYPE S-I SEC. 80 - 06102-01-BR GOODFARM ROAD DISTRICT GRUNDY COUNTY STATION 5+01			
 aubrey, oglesby & bartolomucci		consulting engineers and surveyors planners	
1323 south first street / springfield, illinois 62704			
DRAWN C.S.T. CHECKED <i>Res</i>	DATE <i>11-17-81</i>	JOB NO 80 - 45	SHEET NO 6 of 9

FOR INFORMATION ONLY

Drawing Name: CHECKED BY: JLS DATE: 02/2024	REVISIONS				 PERU MORRIS OTTAWA MENDOTA ILLINOIS Chamin & Associates	FAS 292 GARDNER ROAD SECTION 19-00176-00-BR GRUNDY COUNTY	EXISTING PLANS S.N. 032-5551 (E)(P) SHEET 11 of 14 SHEETS	BID SET	CURRENT AS OF: 04/05/2024	
	LEVEL	BY	DATE	DESCRIPTION					SCALE: AS NOTED	SHEET 35
									FILE NO.: 111598.00 Y-	OF 38



SEC. 80-06102-01-BR
GOODFARM ROAD DISTRICT
GRUNDY COUNTY
STATION 5+01

80-45 Sheet 7 of 9

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DATE: 02/2024					

PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

Chamlin & Associates

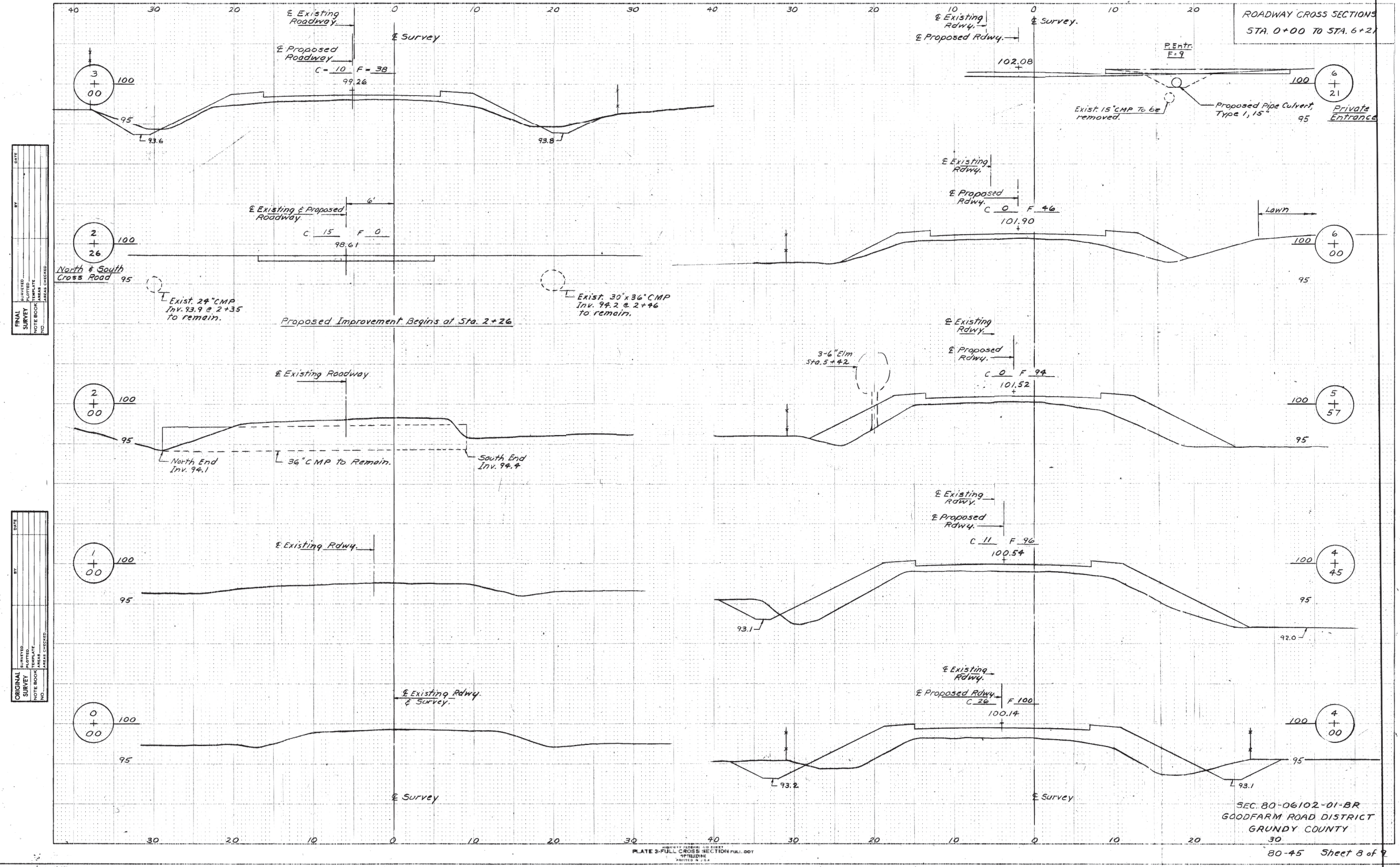
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SECTION 19-00176-00-BR
GRUNDY COUNTY

EXISTING PLANS
S.N. 032-5551 (E)(P)

SHEET 12 of 14 SHEETS

BID SET

CURRENT AS OF: 04/05/2024	
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FILE NO.: 111598.00 Y-	OF 38



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DATE: 02/2024					



PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

FAS 292 GARDNER ROAD
SECTION 19-00176-00-BR
GRUNDY COUNTY

EXISTING PLANS
S.N. 032-5551 (E)(P)
SHEET 13 of 14 SHEETS

BID SET

CURRENT AS OF: 04/05/2024
SCALE: AS NOTED
FILE NO.: 111598.00 Y-

SHEET 37
OF 38

