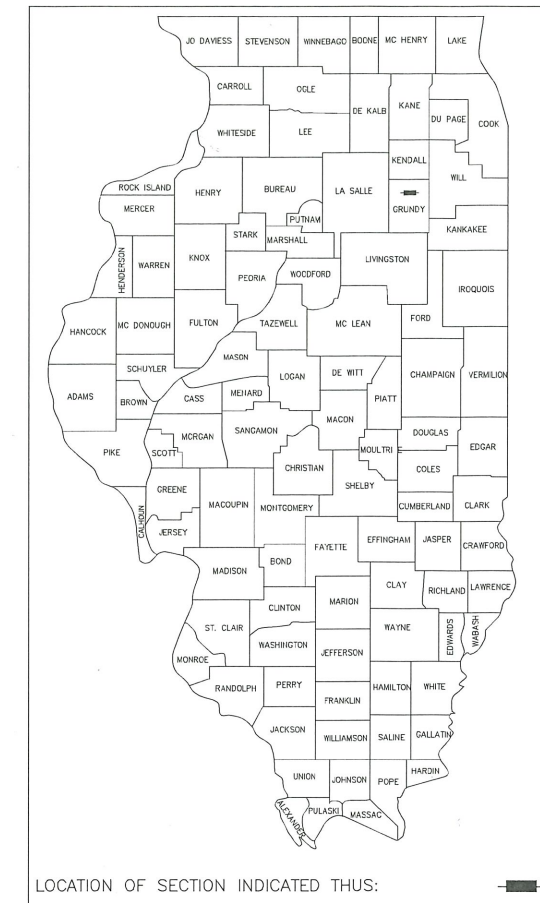


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PLANS FOR PROPOSED  
SURFACE TRANSPORTATION PROGRAM  
BRIDGE REPLACEMENT  
COUNTY HIGHWAY CH 23 (FAS 1273)  
(DUPONT ROAD OVER WAUPECAN CREEK)  
SECTION 19-00173-00-BR  
GRUNDY COUNTY**

FEDERAL PROJECT: PJKV (854)  
C-93-023-21



LOCATION OF SECTION INDICATED THUS: [Symbol]

**INDEX OF SHEETS**

- 1 COVER SHEET
- 2 GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 TYPICAL SECTIONS
- 5 REMOVAL AND EXISTING CONDITIONS PLAN
- 6 PROPOSED ROADWAY IMPROVEMENT PLAN
- 7 TRAFFIC CONTROL PLAN
- 8 GENERAL PLAN AND ELEVATION
- 9-29 STRUCTURE DETAILS
- 30-31 SOIL BORINGS
- 32-38 EXISTING PLANS
- 39-43 CROSS SECTIONS

**BENCHMARKS**

- BM-1  
NAIL IN POWER POLE SOUTH SIDE DUPONT ROAD  
FIRST POWER POLE EAST OF CREEK  
ELEV. 548.26
- BM-2  
NAIL IN POWER POLE SOUTH SIDE DUPONT ROAD  
THIRD POWER POLE EAST OF CREEK  
ELEV. 552.56
- BM-3  
NAIL IN POWER POLE SOUTH SIDE DUPONT ROAD  
AT DRIVE ENTRANCE  
ELEV. 568.23

**FUNCTIONAL CLASSIFICATION**

MAJOR COLLECTOR: 750 TO 2000 ADT  
DESIGN TRAFFIC: 950 (2015)  
DESIGN SPEED: 55 MPH

**STRUCTURE DESCRIPTION**

Existing Structure No. 032-3130 Sta. 217+40.54  
Two span concrete deck slab with pier and closed abutments. Total structure length 81'. To be replaced under this contract.

Proposed Structure No. 032-3131 Sta. 217+37  
Three span precast deck beam bridge with spread footing supported piers and pile supported stub abutments. Total structure length 122'.

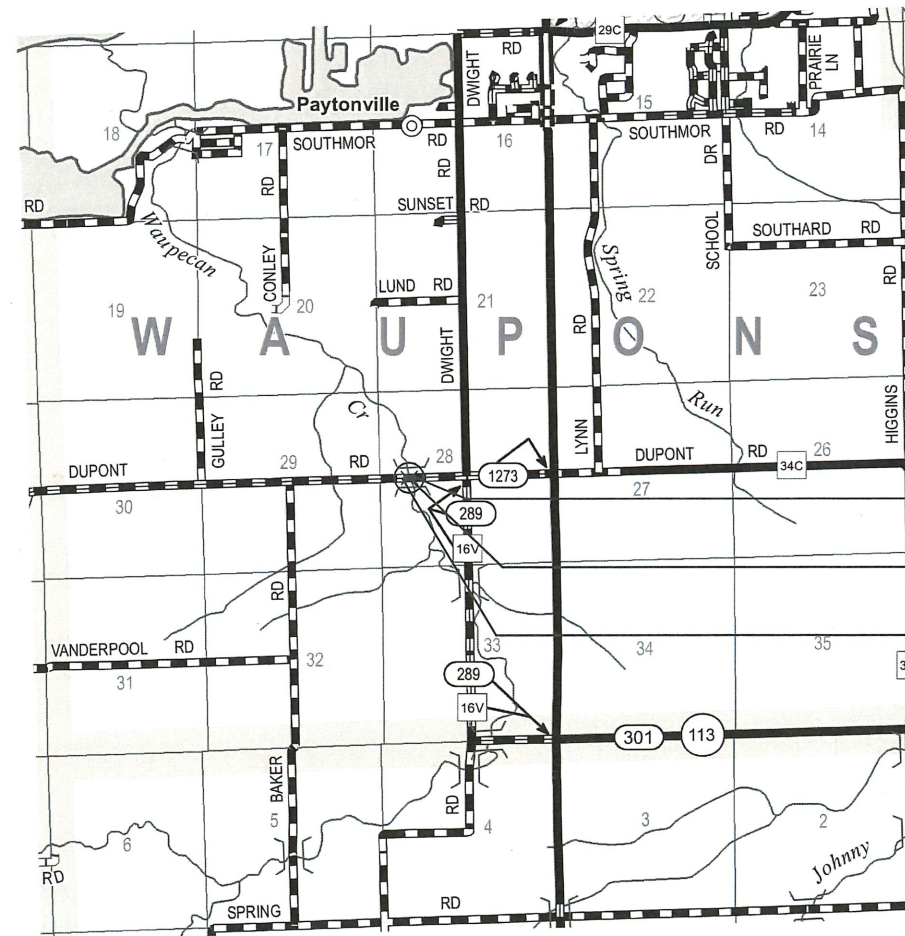
**LIST OF ILLINOIS DOT HIGHWAY STANDARDS**

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 420001-10 PAVEMENT JOINTS
- 420406 PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
- 515001-04 NAME PLATE FOR BRIDGES
- 601101-02 CONCRETE HEADWALL FOR PIPE UNDERDRAINS
- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631061 TRAFFIC BARRIER TERMINAL, TYPE 13
- 701901-08 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 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)

**UTILITIES**

AT&T  
1000 COMMERCE DRIVE  
OAKBROOK, IL 60523  
MITCH CULLEN  
(630) 573-5450

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

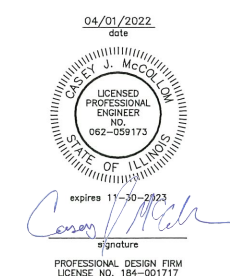


SEC. 28, T. 33 N., R. 7 E., 3RD P.M.

**LOCATION SKETCH**

NOT TO SCALE  
GROSS LENGTH= 494.3 FT (0.192 MI) NET LENGTH= 494.3 FT (0.192 MI)

**END PROJECT STA. 219+83.01**  
**S.N. 032-3130 (EXISTING)**  
**S.N. 032-3131 (PROPOSED)**  
**BEGIN PROJECT STA. 214+88.73**



**PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS**

CONTRACT NO. 87756



PERU MORRIS  
OTTAWA MENDOTA  
ILLINOIS

DRAWN BY: KED	CAD: 001-COVER	REVISIONS		SCALE: AS NOTED	SHEET 1
		DATE	BY		
CHECKED BY: CM	DATE: 04/2022	FILE NO.: 111413.00Y-		OF 43	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

APPROVED: April 13, 2022

PASSED: April 14, 2022

DISTRICT THREE ENGINEER OF LOCAL ROADS & STREETS

Releasing for Bid Based on Limited Review

April 14, 2022

REGION TWO ENGINEER

General Notes

1. 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.
2. Except as noted on plans, pavement grades shown are at the top of pavement surfaces.
3. The Engineer will be the sole judge concerning curing time for the various HMA lifts.
4. For stabilization, all Type III barricades will require a minimum of eight (8) sandbags per barricade.
5. Seeding will not be permitted at any time when the ground is frozen, wet, or in an untillable condition. Locations to be seeded will be determined by the Engineer.
6. All elevations referring to U.S.G.S. Mean Sea Level Datum.
7. 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.
8. 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.
9. 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
Short Term Pavement Marking	10	ft/100 ft of application
10. Members of J.U.L.I.E. known to be within the limits of the improvements are:  
ComEd  
AT&T
11. The Contractor shall contact J.U.L.I.E. at least 48 hours prior to excavation to determine which utilities are in the area.

SUMMARY OF COMMITMENTS

Trees 3" or greater in diameter at breast height will not be cleared April 1 through September 30.

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Drawing Name: H:\ADBE\1111413-00\_Grundy Co Hwy Dupont Dr Waupesca\CAD\002-NOTES.dwg Last Modified: Friday, April 1, 2022 1:56:54 PM Plotted On: Friday, April 1, 2022 2:53:55 PM by Angel Rodriguez

CONTRACT NO. 87756

DRAWN BY: KED	REVISIONS			
CHECKED BY: CM	LEVEL	BY	DATE	DESCRIPTION
DATE: 12/2021				



PERU MORRIS  
OTTAWA MENDOTA  
ILLINOIS

**DUPONT ROAD FAS 1273  
SECTION 19-00173-00-BR  
GRUNDY COUNTY**

**GENERAL NOTES**

CURRENT AS OF: 04/01/2022	
SCALE: AS NOTED	SHEET 2
FILE NO.: 111413.00 Y-	OF 43

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	STP-Br	
			Fed 80%	Local 20%
			0010	0010
				TOTAL QUANTITY
20300100	CHANNEL EXCAVATION	CU YD		1538
20400800	FURNISHED EXCAVATION	CU YD		35
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD		218
28000305	TEMPORARY DITCH CHECKS	FOOT		4
28000400	PERIMETER EROSION BARRIER	FOOT		291
28100105	STONE RIPRAP, CLASS A3	SQ YD		1004
28100107	STONE RIPRAP, CLASS A4	SQ YD		529
28200200	FILTER FABRIC	SQ YD		1533
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD		218
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND		491
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND		98
40603060	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON		75
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON		114
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD		75
44000100	PAVEMENT REMOVAL	SQ YD		458
48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD		407
50100100	REMOVAL OF EXISTING STRUCTURES	EACH		1
50200100	STRUCTURE EXCAVATION	CU YD		118
50200300	COFFERDAM EXCAVATION	CU YD		124
50201121	COFFERDAM TYPE 2, LOCATION 2	EACH		2
50300225	CONCRETE STRUCTURES	CU YD		199
50300265	SEAL COAT CONCRETE	CU YD		13

\* DENOTES SPECIAL PROVISION

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	STP-Br	
			Fed 80%	Local 20%
			0010	0010
				TOTAL QUANTITY
50300290	CONCRETE ENCASEMENT	CU YD		4
50301330	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD		72
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT		3353
50600205	REINFORCEMENT BARS, EPOXY COATED	POUND		45978
50900211	STEEL RAILING, TYPE ILC-1	FOOT		260
51201600	FURNISHING STEEL PILES HP12X53	FOOT		153
51202300	DRIVING PILES	FOOT		153
51203600	TEST PILE STEEL HP12X53	EACH		1
51204650	PILE SHOES	EACH		10
51500100	NAME PLATES	EACH		1
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD		566
58300100	PORTLAND CEMENT MORTAR FINISH COURSE	FOOT		720
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD		60
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD		33
60100030	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH		4
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT		106
63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 8 FOOT POSTS	FOOT		175
63100117	TRAFFIC BARRIER TERMINAL, TYPE 13	EACH		4
63100157	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH		4
63200310	GUARDRAIL REMOVAL	FOOT		323
67100100	MOBILIZATION	L SUM		1
76001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT		340
X7010215	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM		1
Z0013738	CONSTRUCTION LAYOUT	L SUM		1

Δ SPECIALTY ITEMS

\* DENOTES SPECIAL PROVISION

CHAMIN & ASSOCIATES, INC. 00951  
 Drafter: MORGAN, V. 11.11.13-00 Grundy Co Hwy Dupont Dr. Waukegan, IL 60087-1111  
 Last Modified: Friday, April 1, 2022 4:12:44 PM  
 Plotted On: Friday, April 1, 2022 4:35:53 PM  
 by: Angela Rodriguez

CONTRACT NO. 87756

DRAWN BY: KED	REVISIONS			
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CHECKED BY: CM				
DATE: 12/2021				

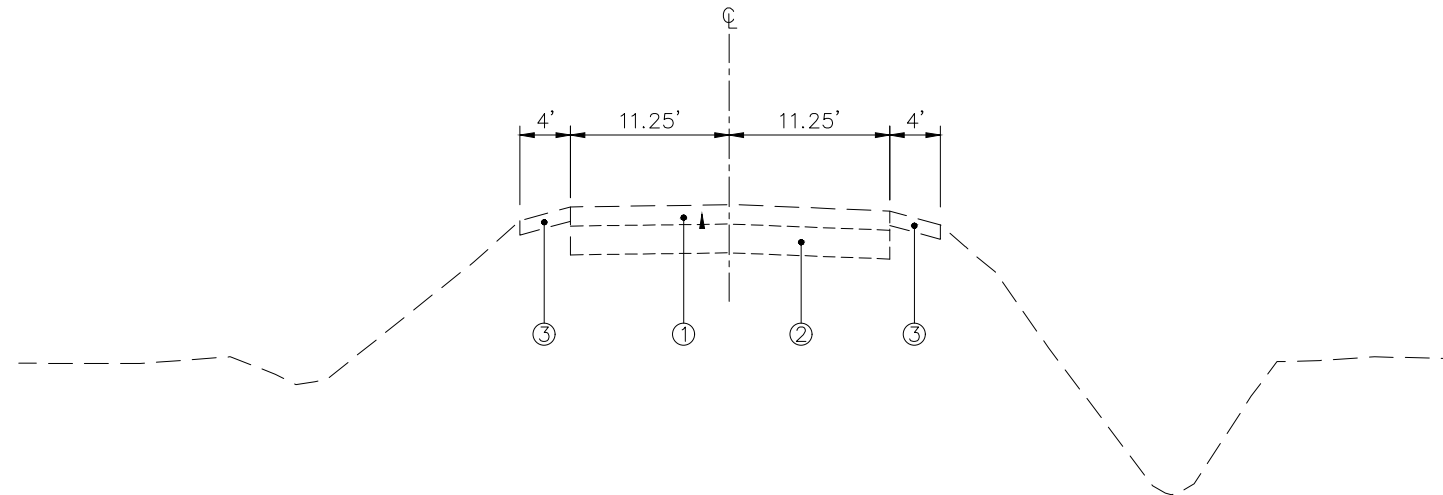


PERU MORRIS  
OTTAWA MENDOTA  
ILLINOIS

DUPONT ROAD FAS 1273  
SECTION 19-00173-00-BR  
GRUNDY COUNTY

SUMMARY OF QUANTITIES

CURRENT AS OF: 04/01/2022	
SCALE: AS NOTED	SHEET 3
FILE NO.: 111413.00 Y-	OF 43



### EXISTING TYPICAL SECTION

NOT TO SCALE  
 STA. 215+83.19 TO STA. 216+47.04  
 STA. 218+26.96 TO STA. 218+50.00

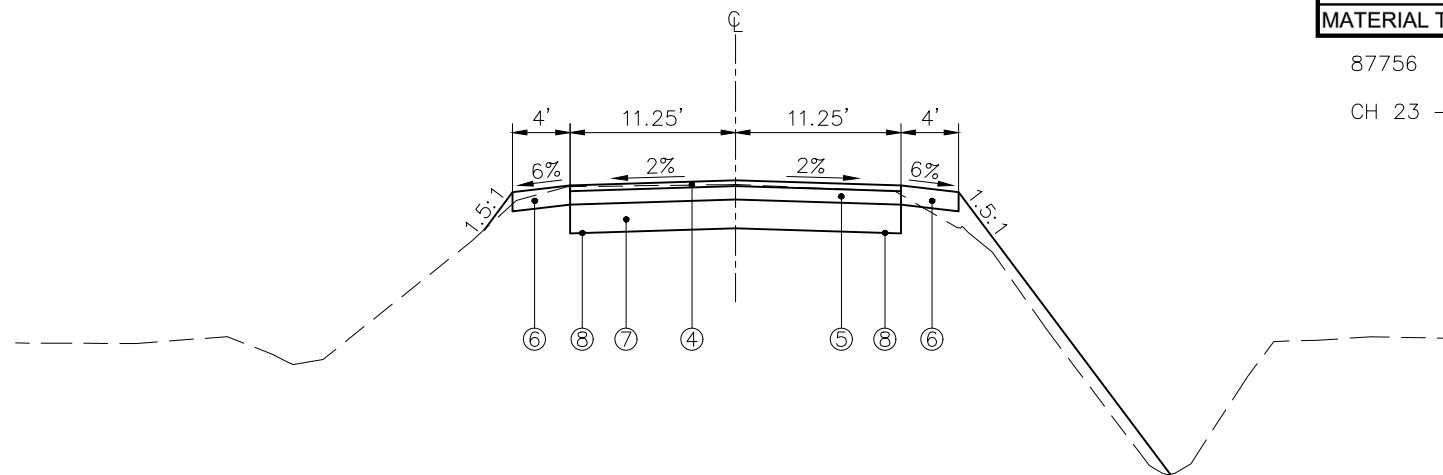
### LEGEND

- ① EXISTING HMA PAVEMENT, 8"
- ② EXISTING AGGREGATE BASE COURSE, 12"
- ③ EXISTING AGGREGATE SHOULDER, 8"
- ④ PROPOSED HMA SURFACE COURSE, IL-9.5, MIX "C", N50-2"
- ⑤ PROPOSED HMA BINDER COURSE, IL-19.0, N50-12"
- ⑥ PROPOSED AGGREGATE SHOULDER, 8"
- ⑦ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑧ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION

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

87756

CH 23 - DUPONT ROAD OVER WAUPECAN CREEK



### PROPOSED TYPICAL SECTION

NOT TO SCALE  
 STA. 215+83.19 TO STA. 216+47.04  
 STA. 218+26.96 TO STA. 218+50.00

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 Drawing Name: H:\ADBE\1111413-00\_Grundy Co Hwy Dupont Cr Waupecan\CAD\004-TYP\_SEC.dwg Last Modified: Friday, April 1, 2022 2:58:55 PM Plotted On: Friday, April 1, 2022 3:14:48 PM by Angel Rodriguez

CONTRACT NO. 87756

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CHECKED BY: CJM	LEVEL	BY	DATE	DESCRIPTION
DATE: 12/2021				


**PERU MORRIS**  
 OTTAWA MENDOTA  
 ILLINOIS

**DUPONT ROAD FAS 1273**  
**SECTION 19-00173-00-BR**  
**GRUNDY COUNTY**

**TYPICAL SECTIONS**

CURRENT AS OF: 04/01/2022	
SCALE: AS NOTED	SHEET 4
FILE NO.: 111413.00 Y-	OF 43



CONTROL POINT #7 - STA. 213+76.33, 18.6' RT  
 SURVEY NAIL IN FIRST DRIVEWAY WEST OF BRIDGE ON SOUTH SIDE OF  
 DUPONT ROAD.  
 N 1689819.2190  
 E 955592.8420  
 ELEV. 566.89

CONTROL POINT #109 - STA. 215+40.42, 12.7' LT  
 SURVEY NAIL IN FIRST DRIVEWAY WEST OF BRIDGE ON NORTH SIDE OF  
 DUPONT ROAD.  
 N 1689855.2010  
 E 955755.9650  
 ELEV. 556.83

CONTROL POINT #5 - STA. 220+22.67, 19.0' LT  
 SURVEY NAIL IN FIRST DRIVEWAY EAST OF BRIDGE ON SOUTH SIDE OF  
 DUPONT ROAD.  
 N 1689837.4850  
 E 956238.9210  
 ELEV. 551.58

CONTROL POINT #6 - STA. 218+94.34, 14.5' LT  
 SURVEY NAIL IN FIRST DRIVEWAY EAST OF BRIDGE ON NORTH SIDE OF  
 DUPONT ROAD.  
 N 1689881.3990  
 E 956459.2460  
 ELEV. 552.73

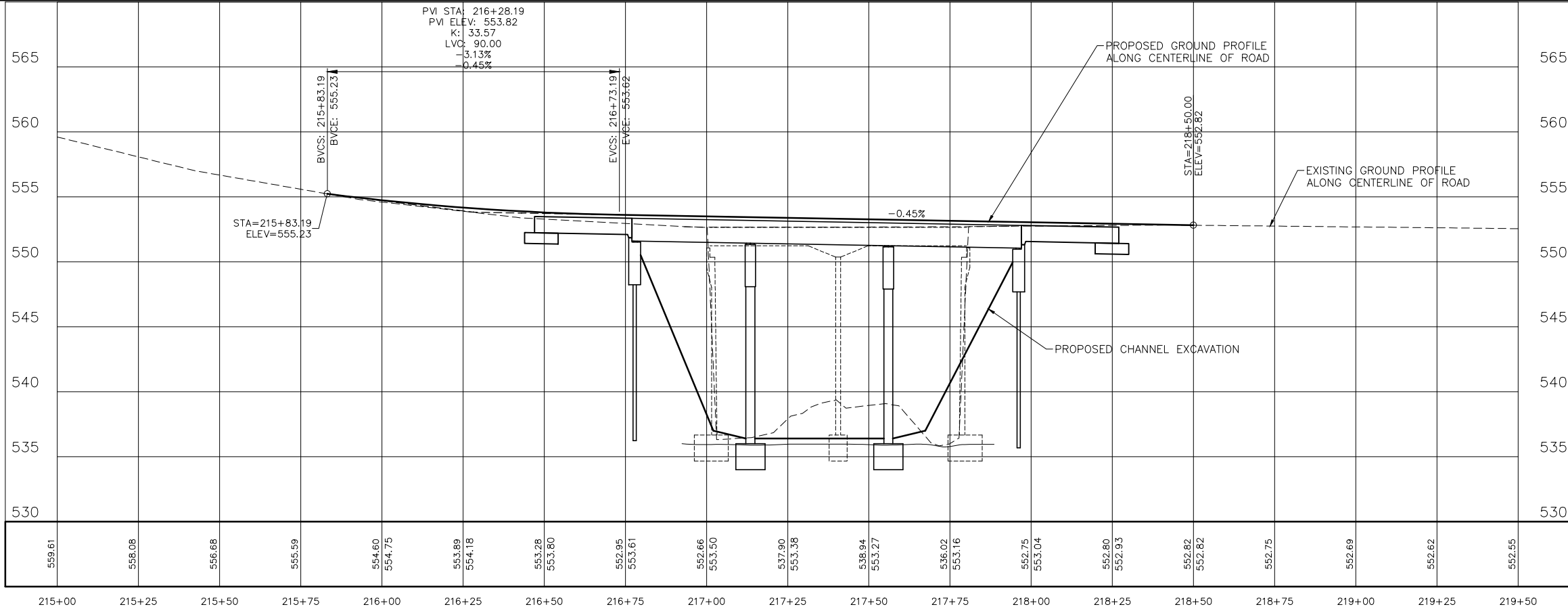
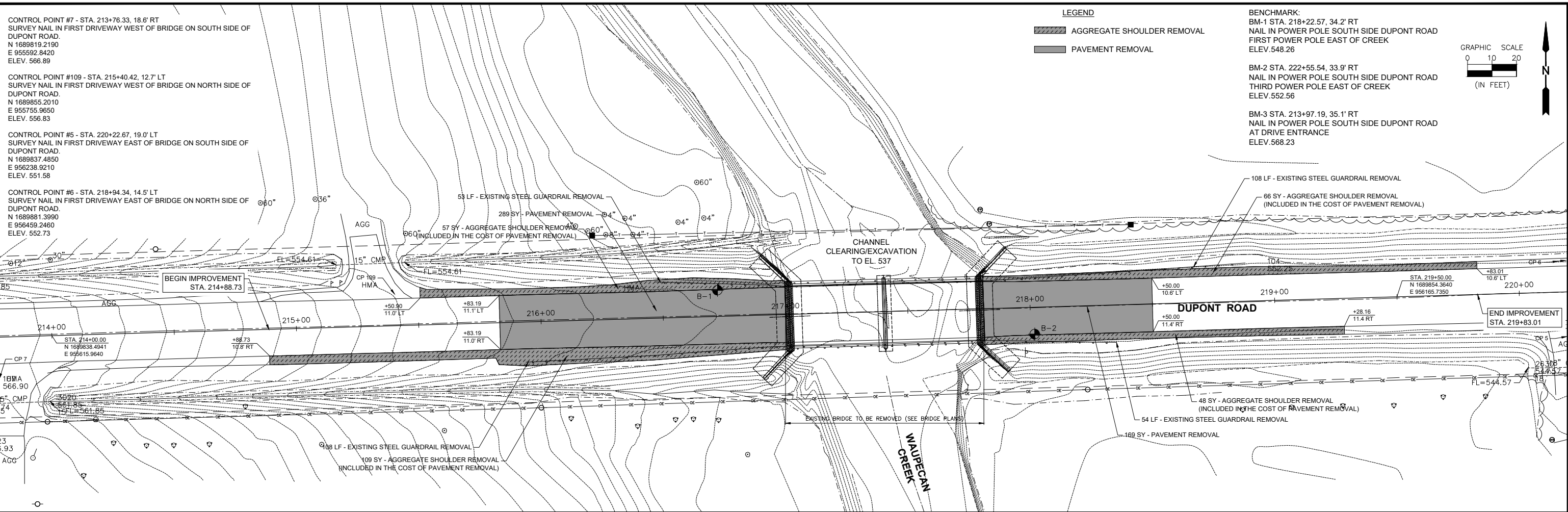
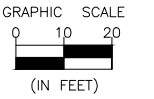
LEGEND

-  AGGREGATE SHOULDER REMOVAL
-  PAVEMENT REMOVAL

BENCHMARK:  
 BM-1 STA. 218+22.57, 34.2' RT  
 NAIL IN POWER POLE SOUTH SIDE DUPONT ROAD  
 FIRST POWER POLE EAST OF CREEK  
 ELEV. 548.26

BM-2 STA. 222+55.54, 33.9' RT  
 NAIL IN POWER POLE SOUTH SIDE DUPONT ROAD  
 THIRD POWER POLE EAST OF CREEK  
 ELEV. 552.56

BM-3 STA. 213+97.19, 35.1' RT  
 NAIL IN POWER POLE SOUTH SIDE DUPONT ROAD  
 AT DRIVE ENTRANCE  
 ELEV. 568.23



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 Drawing Name: H:\ADGE\1111413-00\_Grundy Co Hwy Dupont Cr Waubecon\CAD\005-REMOVAL.dwg  
 Date: 12/2021  
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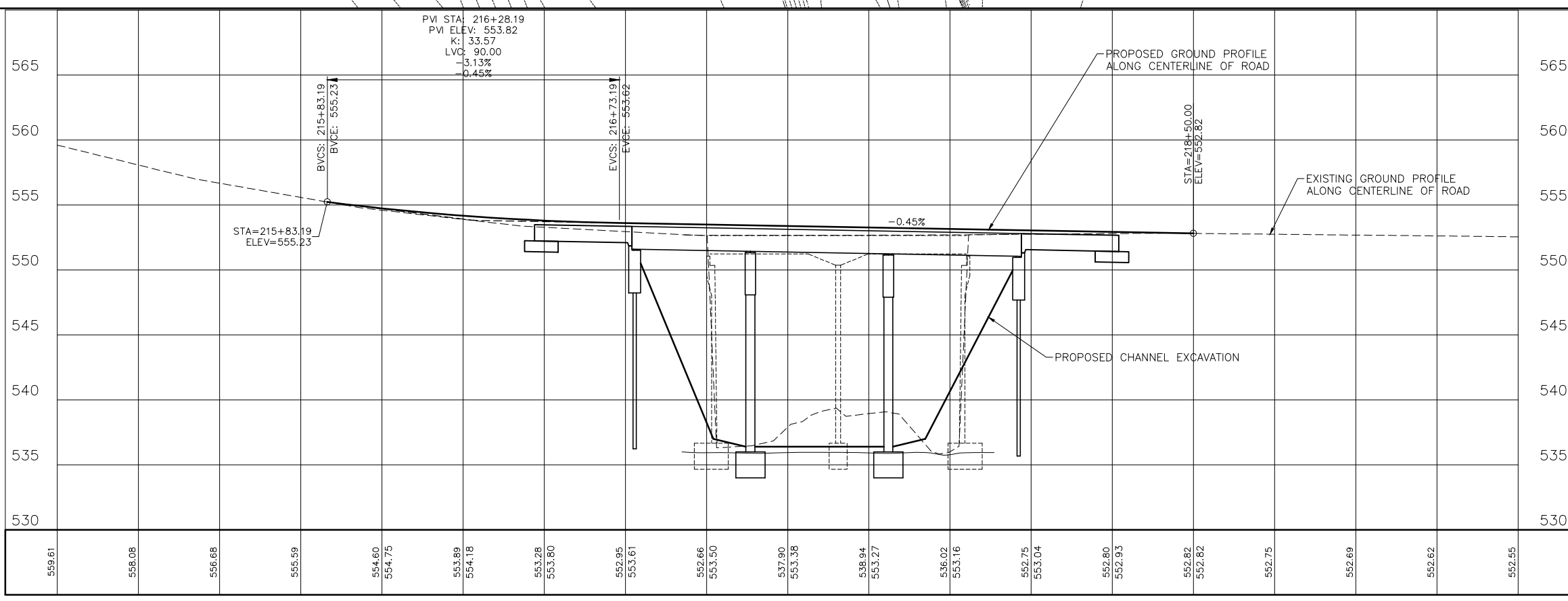
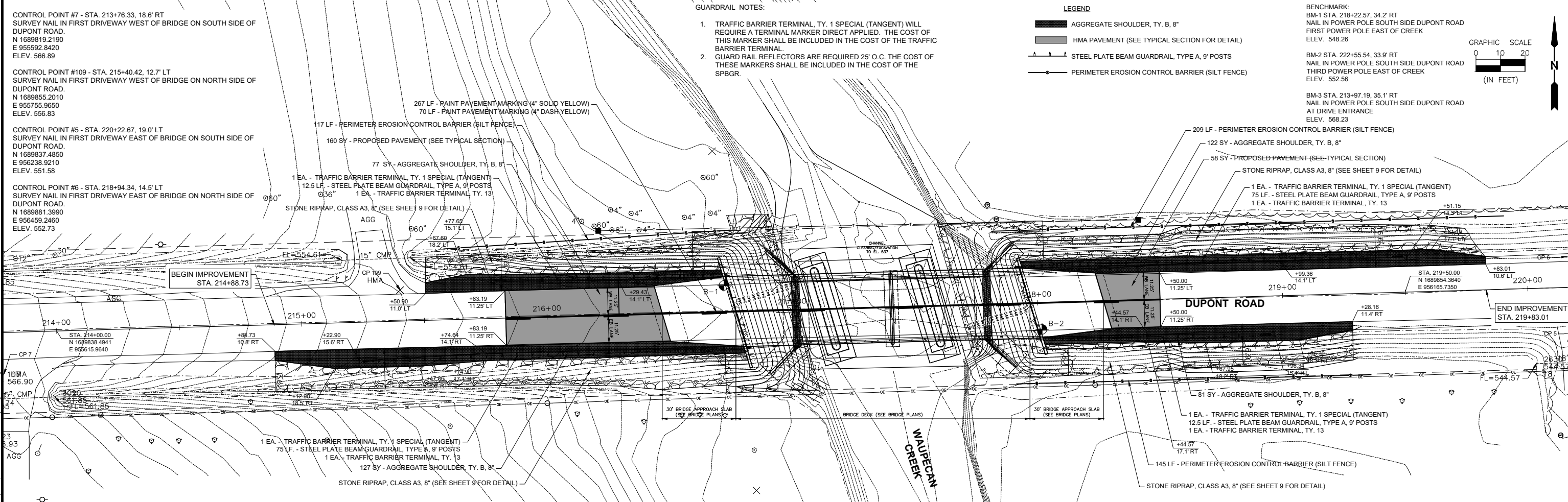
LEVEL	BY	DATE	DESCRIPTION

PERU MORRIS  
 OTTAWA MENDOTA  
 ILLINOIS

**DUPONT ROAD FAS 1273  
 SECTION 19-00173-00-BR  
 GRUNDY COUNTY**

**REMOVAL AND EXISTING  
 CONDITIONS PLAN**

CONTRACT NO. 87756  
 CURRENT AS OF: 04/01/2022  
 SCALE: AS NOTED  
 SHEET 5  
 FILE NO.: 111413.00 Y- OF 43



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 by Angel Rodriguez

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CHECKED BY: CM					
DATE: 12/2021					

**PERU MORRIS**  
 OTTAWA MENDOTA  
 ILLINOIS

**DUPONT ROAD FAS 1273**  
**SECTION 19-00173-00-BR**  
**GRUNDY COUNTY**

**PROPOSED ROADWAY**  
**IMPROVEMENT PLAN**

CURRENT AS OF: 04/01/2022	SHEET 6
SCALE: AS NOTED	OF 43
FILE NO.: 111413.00 Y-	

CONTRACT NO. 87756

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 Drawing Name: H:\A\DR\1111413-00 Grundy Co Hwy Dupont Dr Waupeca\CAD\TEMP SIGN.dwg Last Modified: Friday, April 1, 2022 10:48:52 AM Plotted On: Friday, April 1, 2022 2:41:09 PM by Angel Rodriguez



①	BRIDGE CLOSED BEGINS XX/XX/XX	(2 REQ'D)	⑤	ROAD CLOSED AHEAD	W20-3 48"x48" WITH FLAG (4 REQ'D)
②	BRIDGE CLOSED DUPONT RD WEST BEGINS XX/XX/XX	(4 REQ'D)	⑥	ROAD CLOSED 500 FT	W20-3 48"x48" WITH FLAG (3 REQ'D)
③	ROAD CLOSED	R11-2 (2 REQ'D)	⑦	TYPE III BARRICADES (4 REQ'D)	
④	ROAD CLOSED TO THRU TRAFFIC	R11-4 (2 REQ'D)	⑧	TYPE III BARRICADES (4 REQ'D - OFFSET)	

CONTRACT NO. 87756

DRAWN BY: AR	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: CM				
DATE: 02/22				



PERU MORRIS  
 OTTAWA MENDOTA  
 ILLINOIS

**DUPONT ROAD FAS 1273**  
**SECTION 19-00173-00-BR**  
**GRUNDY COUNTY**

**TRAFFIC CONTROL PLAN**

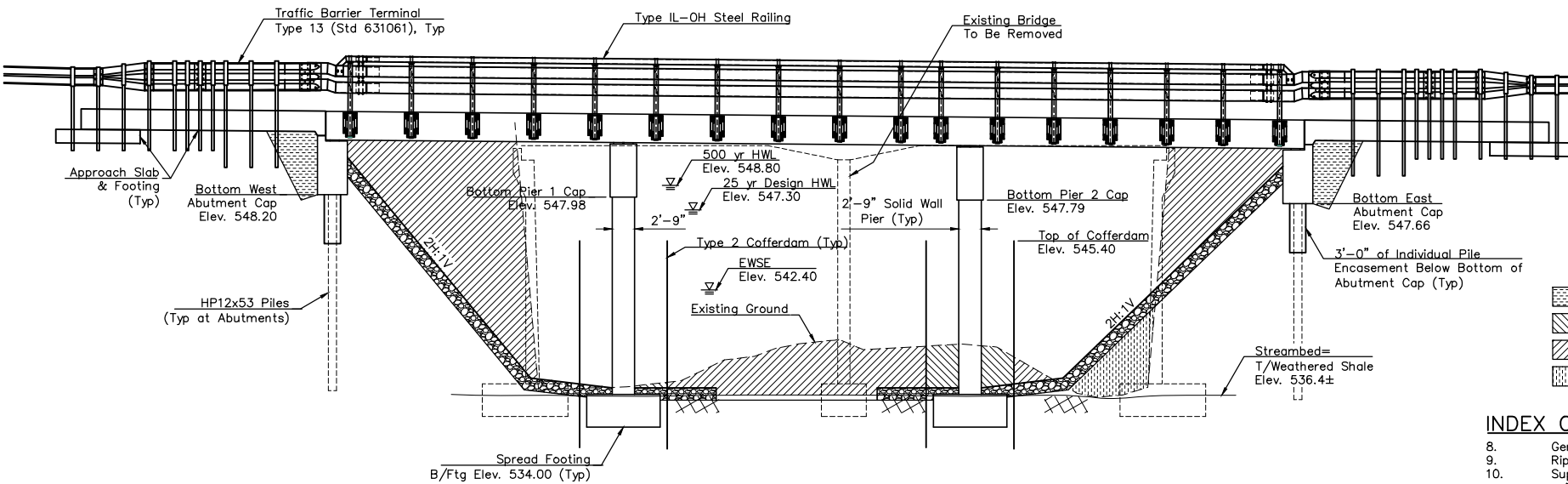
CURRENT AS OF: 04/01/2022	
SCALE: AS NOTED	SHEET 7
FILE NO.: 111413.00 Y-	OF 43

**EXISTING STRUCTURE NO. 032-3130**

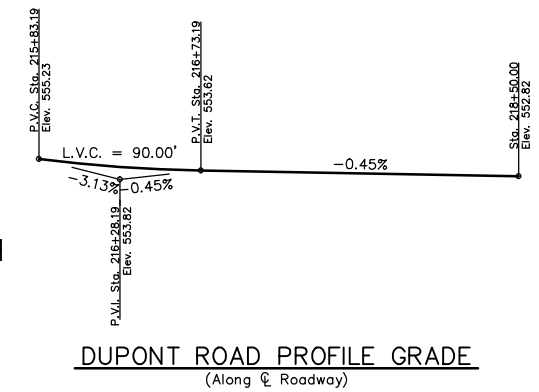
Sta. 217+40.54 - Two span concrete deck slab bridge on spread footing supported closed abutments and spread footing supported solid wall pier.

Structure closed to traffic during construction.

No Salvage.



**ELEVATION**  
(Exaggerated 2x in Vertical Direction)



**DUPONT ROAD PROFILE GRADE**  
(Along C. Roadway)

- Structure Excavation
- Cofferdam Excavation
- Channel Excavation
- Furnished Clay Embankment

**INDEX OF STRUCTURE SHEETS**

- 8. General Plan & Elevation
- 9. RipRap Details
- 10. Superstructure Details
- 11.-16. 21"x48" PPC Deck Beam Details
- 17.-20. Approach Slab Details
- 21.-24. Steel Railing, Type 1L-0H
- 25.-26. Abutments
- 27.-28. Piers
- 29. Pile Details
- 30.-31. Borings
- 32.-38. Existing Plans

**GENERAL NOTES**

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

The Contractor shall drive test pile to 110% of the nominal required bearing specified in production locations at West Abutment or approved by the Engineer before ordering the remainder of piles.

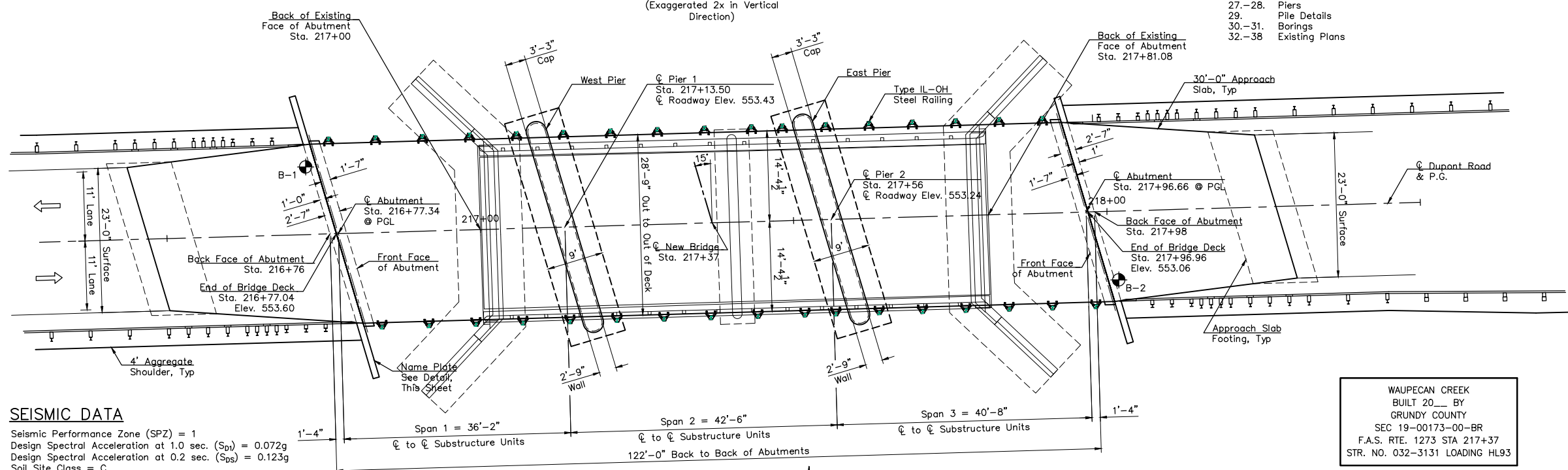
All bars to be epoxy coated.

All proposed construction activities shall be in accordance with Statewide Permit 12 of the Illinois DNR Office of Water Resources and Nationwide Permit 3 of the U.S. Army Corps of Engineers.

Excavation in shale shall not be considered Rock Excavation.

**BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
CHANNEL EXCAVATION	CU YD		1,538	1,538
FURNISHED EXCAVATION	CU YD		35	35
STONE RIPRAP, CLASS A3	SQ YD		1,004	1,004
STONE RIPRAP, CLASS A4	SQ YD		529	529
FILTER FABRIC	SQ YD		1,533	1,533
REMOVAL OF EXISTING STRUCTURES	EACH		1	1
STRUCTURE EXCAVATION	CU YD	118		118
COFFERDAM EXCAVATION	CU YD	124		124
COFFERDAM (TYPE 2)	EACH	2		2
CONCRETE STRUCTURES	CU YD	199		199
SEAL COAT CONCRETE	CU YD		13	13
CONCRETE ENCASUREMENT	CU YD	4		4
CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD		72	72
PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT		3,353	3,353
REINFORCEMENT BARS, EPOXY COATED	POUND	28,805	17,173	45,978
STEEL RAILING, TYPE 1L-0H	FOOT		260	260
FURNISHING STEEL PILES HP 12x53	FOOT		153	153
DRIVING PILES	FOOT		153	153
TEST PILE STEEL HP 12x53	EACH		1	1
PILE SHOES	EACH		10	10
NAME PLATES	EACH	1		1
WATERPROOFING MEMBRANE SYSTEM	SQ YD		556	556
PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT		720	720
GRANULAR BACKFILL FOR STRUCTURES	CU YD	50		50
GEOCOMPOSITE WALL DRAIN	SQ YD	33		33
CONCRETE HEADWALLS FOR PIPE DRAINS	EACH		4	4
PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	108		108



**PLAN**

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. (S<sub>D1</sub>) = 0.072g  
Design Spectral Acceleration at 0.2 sec. (S<sub>D5</sub>) = 0.123g  
Soil Site Class = C

**LOADING HL-93**

Allow 50#/sq. ft. for future wearing surface.

**DESIGN SPECIFICATIONS**

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition, no interims.

**DESIGN STRESSES**

**FIELD UNITS**  
f<sub>c</sub> = 3,500 psi  
f<sub>y</sub> = 60,000 psi (Reinforcement)

**PRECAST PRESTRESSED UNITS**

f<sub>c</sub> = 6,000 psi  
f<sub>ci</sub> = 5,000 psi  
f<sub>pu</sub> = 270,000 psi (1/2" low lax. strands)  
f<sub>pbt</sub> = 201,960 psi (1/2" low lax. strands)  
f<sub>y</sub> = 60,000 psi (Reinforcement)

**WATERWAY INFORMATION TABLE**

Drainage Area = 50.21 SQ MI		Overtopping Elev.=552.38'/552.38' (Exist/Prop.) @ STA 220+43											
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.				Nat. Head - Ft. Headwater El. H.W.E.				Prop. Headwater El.		
			Bridge	Exist.	Total	Prop.	Exist.	Prop.	Exist.	Prop.			
Design	25	2330	744	0	744	760	0	760	547.3	0.2	0.1	547.1	547.2
Base	100	3060	806	0	806	830	0	830	548.1	0.3	0.2	547.8	547.9
Overtopping													
Max. Calc.	500	3910	860	0	860	903	0	903	548.8	0.4	0.3	548.4	548.5

Max. H.W.E.: N/A (ft.)  
Exist. 10 Year Velocity: 3.13 (ft./sec.)  
Prop. 10 Year Velocity: 3.13 (ft./sec.)

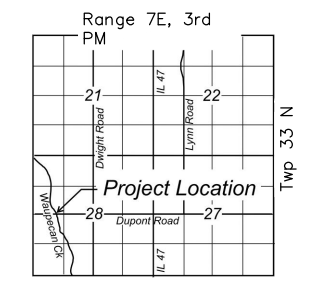
**DESIGN SCOUR ELEVATION TABLE**

Event/Limit	Design Scour Elevations (ft.)				Item 113
	W. Abut.	Pier 1	Pier 2	E. Abut.	
Q100	Not Computed	535.80	535.80	Not Computed	8
Q200	Not Computed	535.80	535.80	Not Computed	
Design	548.20	534.00	534.00	547.66	
Check	548.20	534.00	534.00	547.66	

Design and check elevations for abutments taken as bottom of cap.  
Design and check elevations for pier spread footings is taken as bottom of footing.  
Abutment scour elevations not computed since abutments will be protected with riprap.

WAUPECAN CREEK  
BUILT 20\_\_ BY  
GRUNDY COUNTY  
SEC 19-00173-00-BR  
F.A.S. RTE. 1273 STA 217+37  
STR. NO. 032-3131 LOADING HL93

**NAME PLATE**  
See Std. 515001



**LOCATION SKETCH**

11/1/2022 date  
JAMES K. CLINARD  
LICENSED STRUCTURAL ENGINEER  
NO. 081-004655  
STATE OF ILLINOIS  
signature  
PROFESSIONAL DESIGN FIRM  
LICENSE NO. 184-001717

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".

CONTRACT NO. 87756

CHAMLIN & ASSOCIATES, INC. © 2021 Drawing Name: H:\AUG\1111413-00\_Grundy Co Hwy Dupont Cr Waupecan CAD\032-GEN\PLA.dwg Last Modified: Tuesday, March 29, 2022 11:24:41 AM Plotted On: Friday, April 1, 2022 3:41:14 PM by Angel Rodriguez

REVISIONS	LEVEL	BY	DATE	DESCRIPTION

**CA**  
CHAMLIN & ASSOCIATES  
PERU MORRIS  
OTTAWA MENDOTA  
ILLINOIS

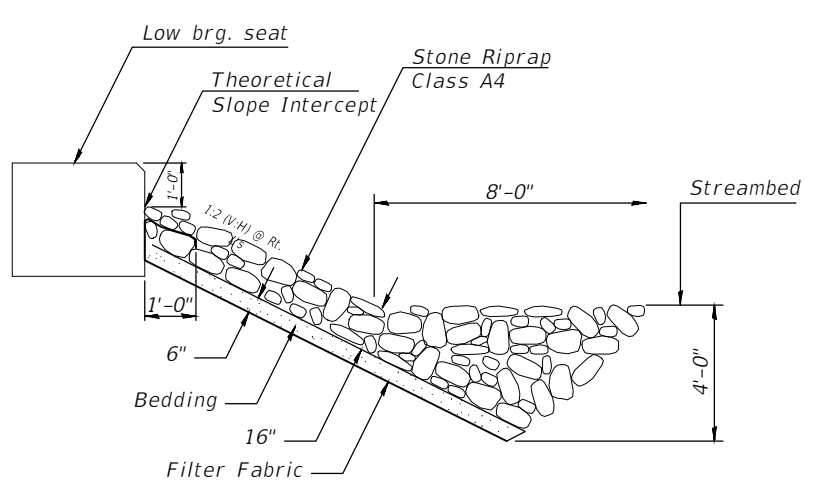
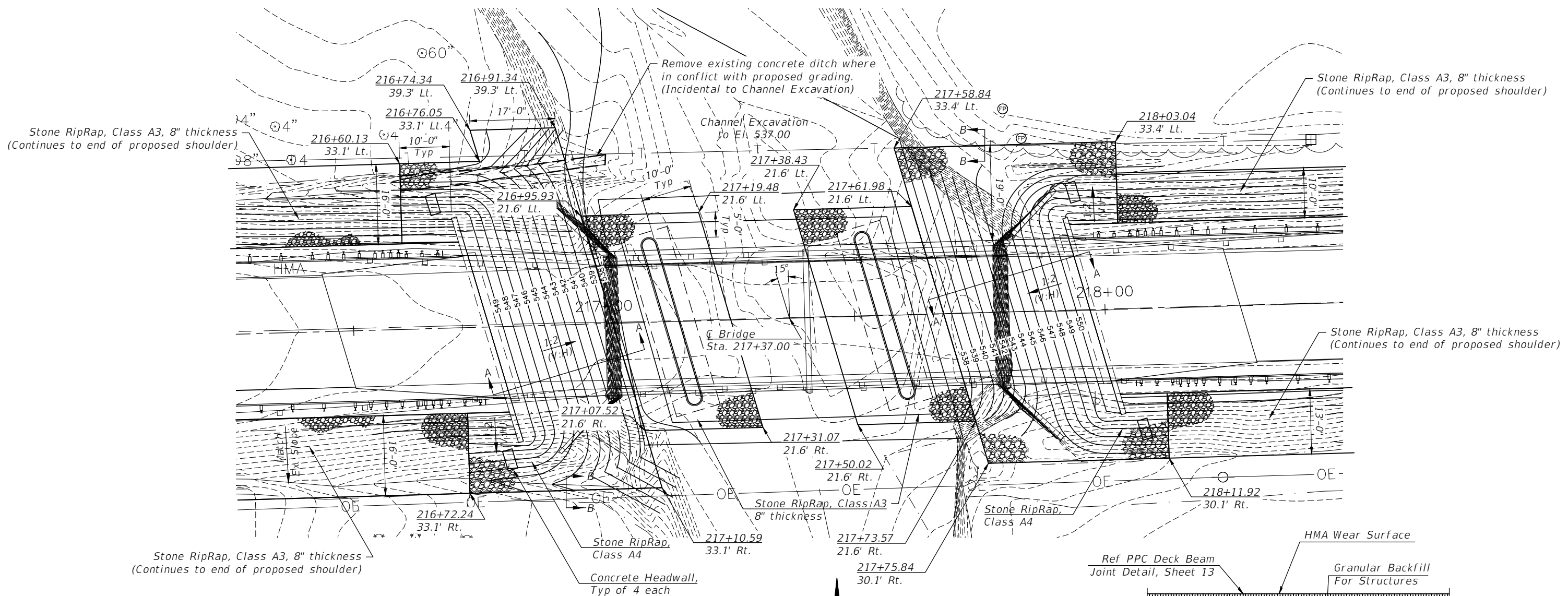
**DUPONT ROAD FAS 1273**  
**SECTION 19-00173-00-BR**  
**GRUNDY COUNTY**

**GENERAL PLAN AND ELEVATION**

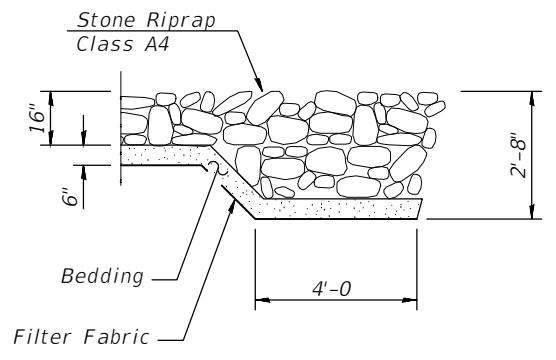
CURRENT AS OF: 04/01/2022	SHEET 8
SCALE: AS NOTED	OF 43



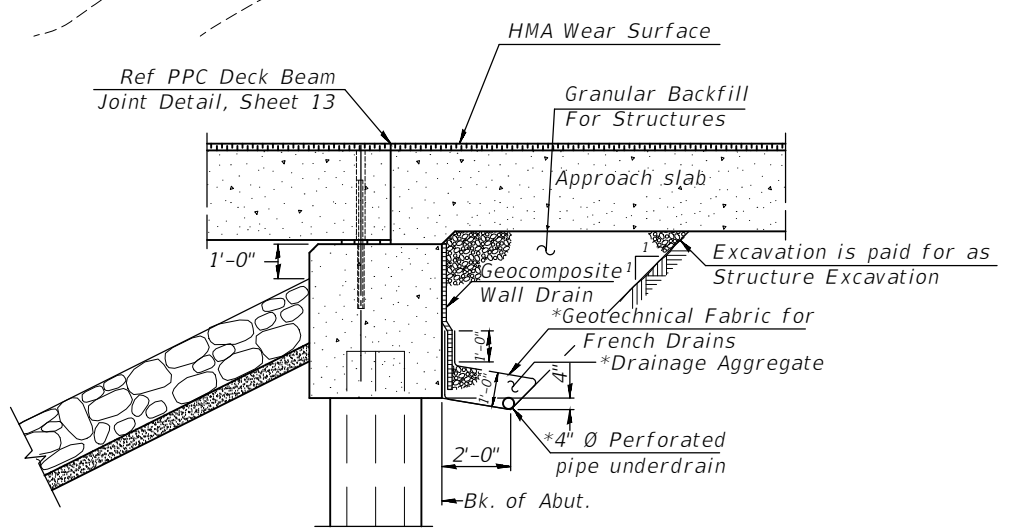
CHAMLIN & ASSOCIATES, INC. © 2021  
 Drawing Name: R:\USERS\11111413-00 Grundy Co Hwy Dupont Dr Waupecan\CAD\09-RIPRAP.dwg  
 Last Modified: Tuesday, March 29, 2022 10:38:00 AM  
 Plotted On: Tuesday, March 29, 2022 10:38:00 AM  
 by Kurt Decker



**SECTION A-A**



**SECTION B-B**



**SECTION THRU ABUTMENT**  
(Horiz. dim. @ Rt. L's)

\*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

Note:  
 All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

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CHECKED BY: JKC					
DATE: 12/2021					

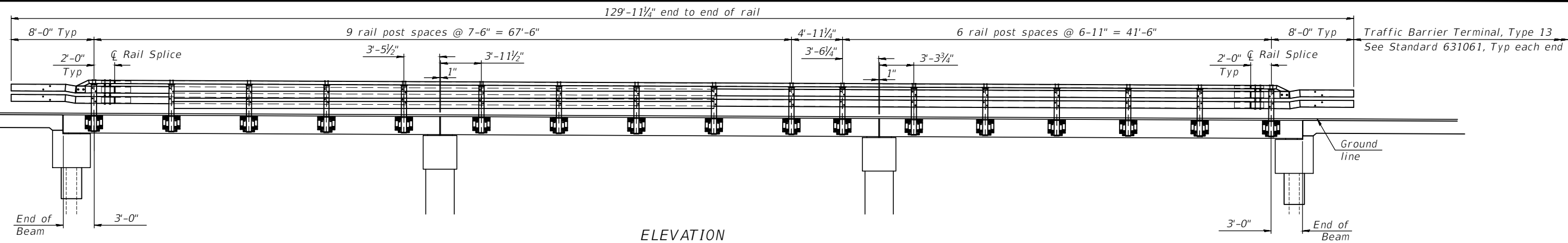


**DUPONT ROAD FAS 1273**  
**SECTION 19-00173-00-BR**  
**GRUNDY COUNTY**

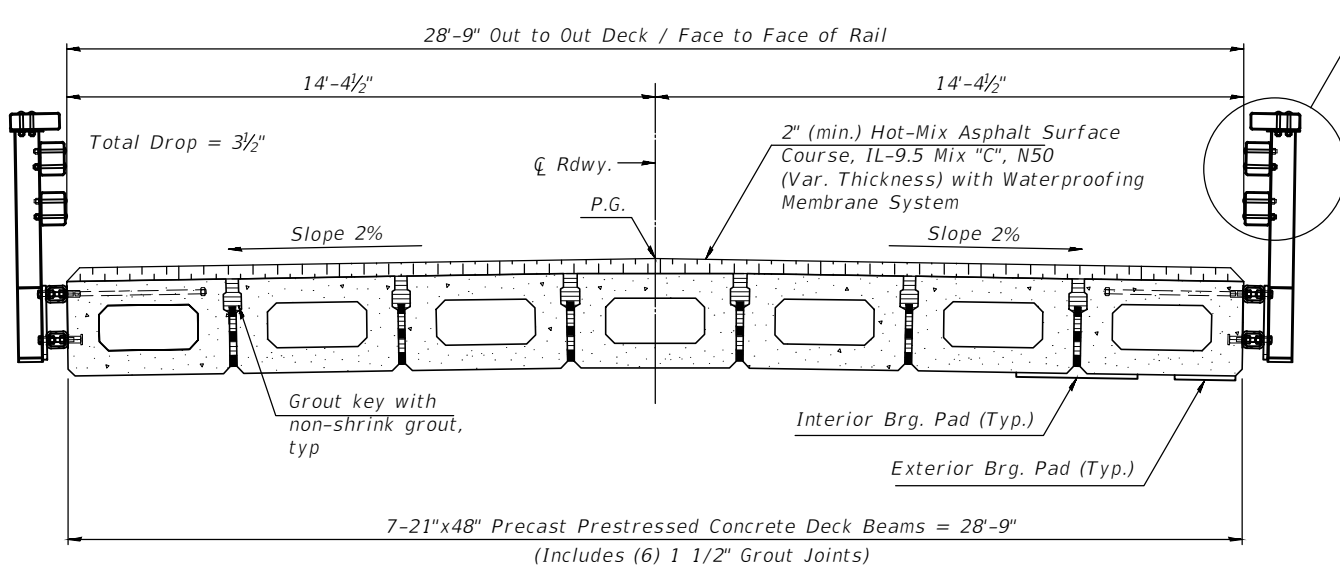
**RIPRAP DETAILS**

CONTRACT NO. 87756	
CURRENT AS OF: 04/01/2022	
SCALE: AS NOTED	SHEET 9
FILE NO.: 111413.00 Y-	OF 43

CHAMLIN & ASSOCIATES, INC. © 2021  
 Drawing Name: R:\USERS\111\11413-00 Grundy Co Hwy Dupont Ov Waupecora\CAD\10-SUPERSTRUCTURE.dwg Last Modified: Monday, March 28, 2022 4:45:42 PM Plotted On: Tuesday, March 29, 2022 9:51:21 AM by Kurt Decker

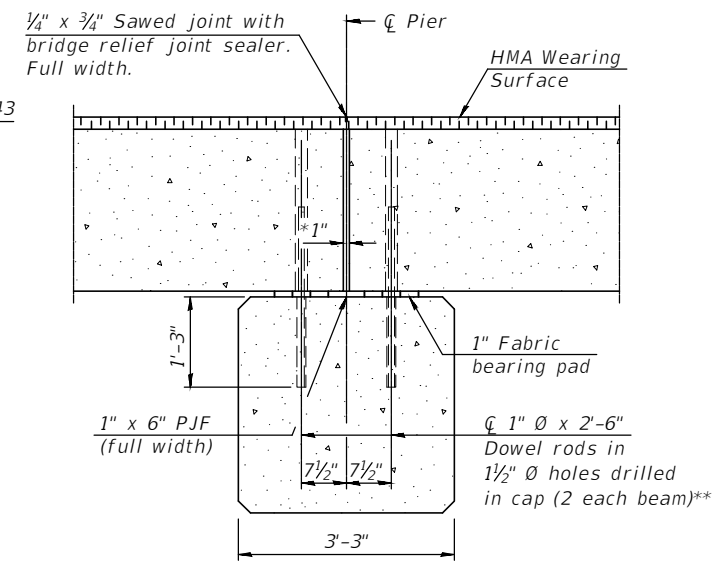


**ELEVATION**  
 Showing Rail Post Spaces  
 See sheets 21-24 of 43 for Railing Details



**CROSS SECTION**

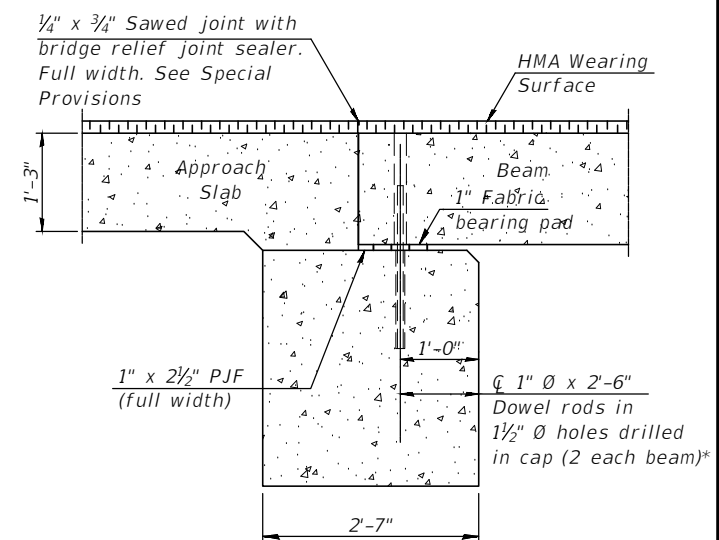
See sheets 21-24 of 43 for complete rail details.



**SECTION @ PIERS**  
 (Dimensions are at Rt. L's)

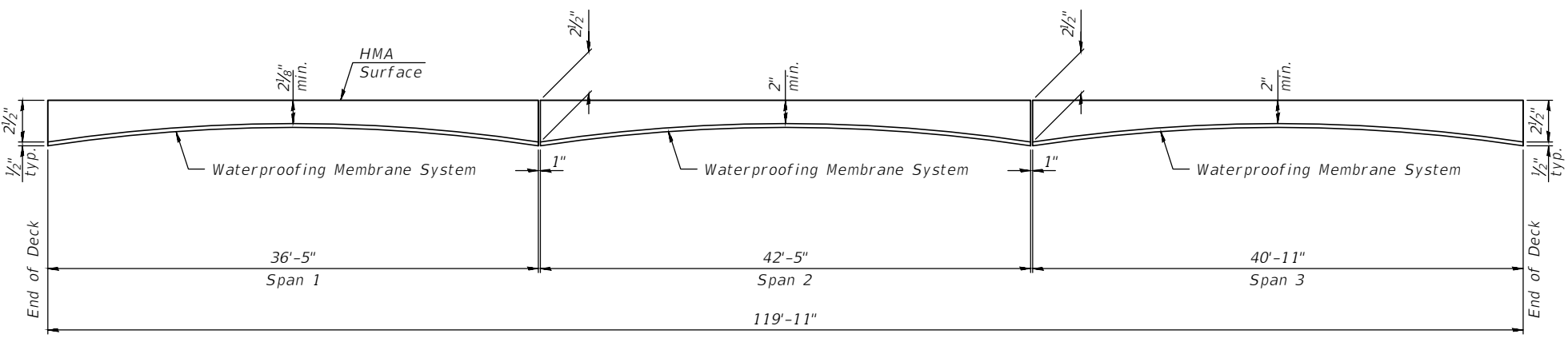
\*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.  
 \*\*Rods to be grouted and allowed to cure (Min. 24 hrs) prior to grouting shear keys.

Notes:  
 See sheet 12, 14, and 16 of 43 for fabric bearing pad details.

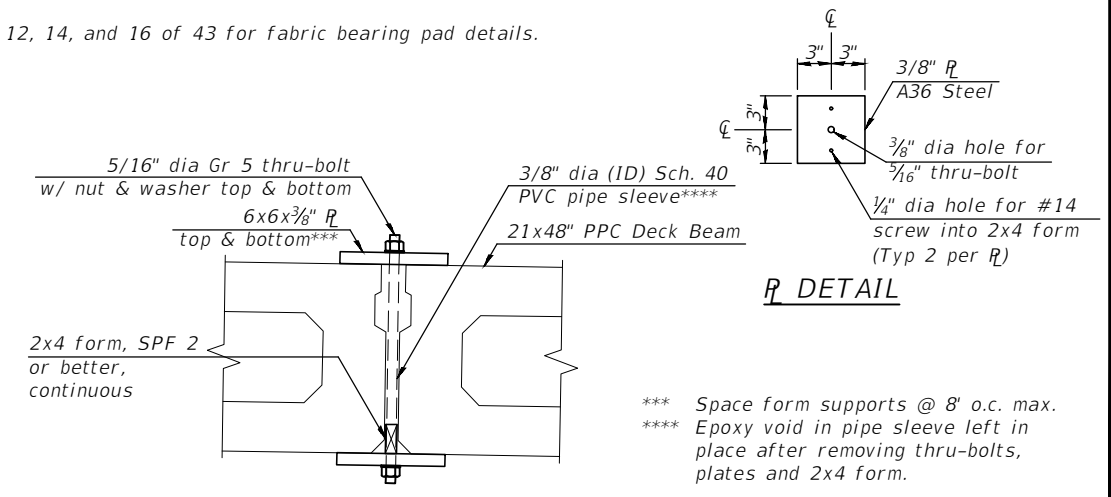


**SECTION @ ABUTMENTS**  
 (Dimensions are at Rt. L's)

\*Rods to be grouted and allowed to cure (Min. 24 hrs) prior to grouting shear keys.



**ANTICIPATED HMA WEARING SURFACE PROFILE**  
 (For information only - beam camber may vary in field)



**SECTION THRU JOINT**  
**GROUT JOINT DETAIL**  
 (Incidental to deck beams)

\*\*\* Space form supports @ 8' o.c. max.  
 \*\*\*\* Epoxy void in pipe sleeve left in place after removing thru-bolts, plates and 2x4 form.

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	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: JKC				
DATE: 12/2021				

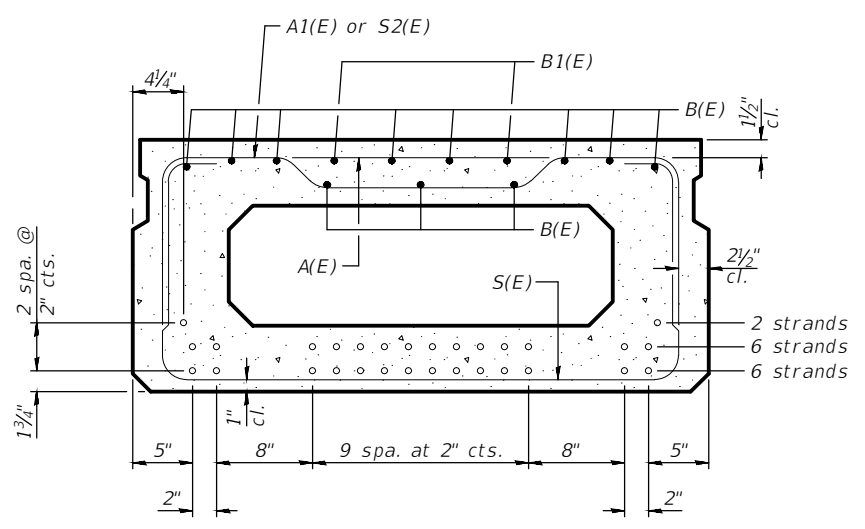
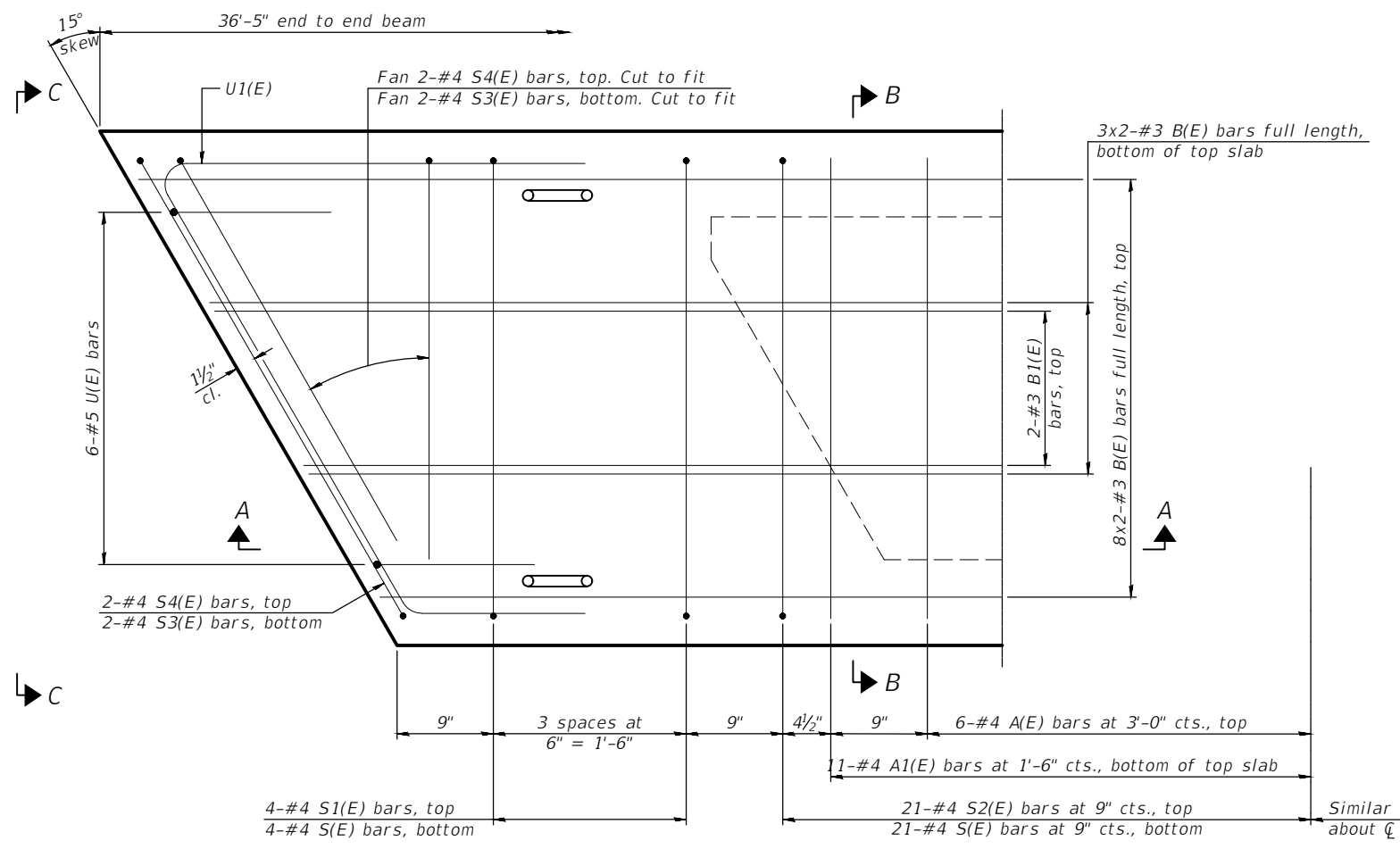
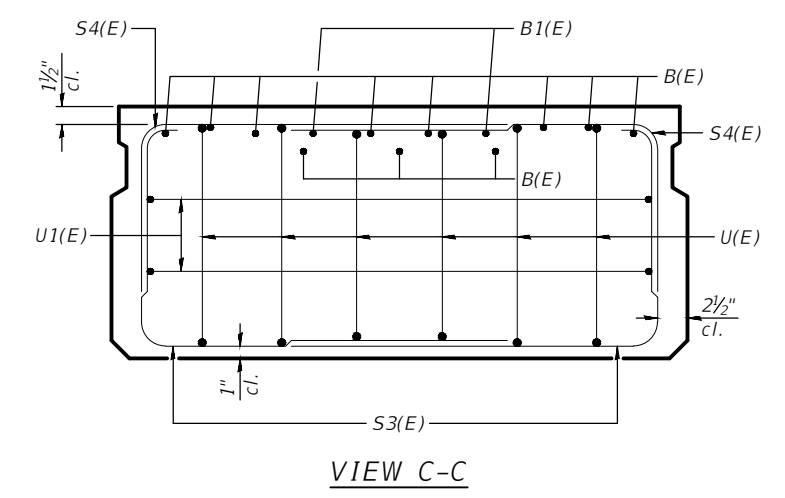
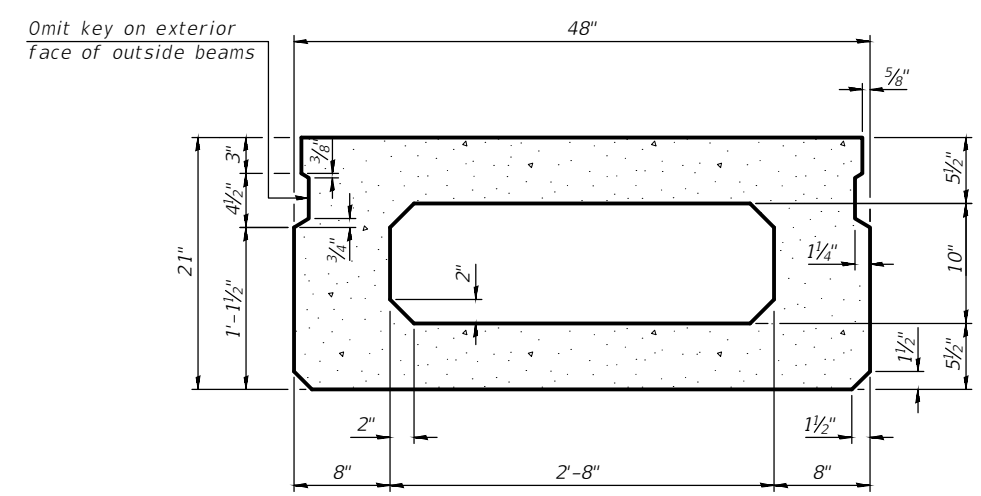
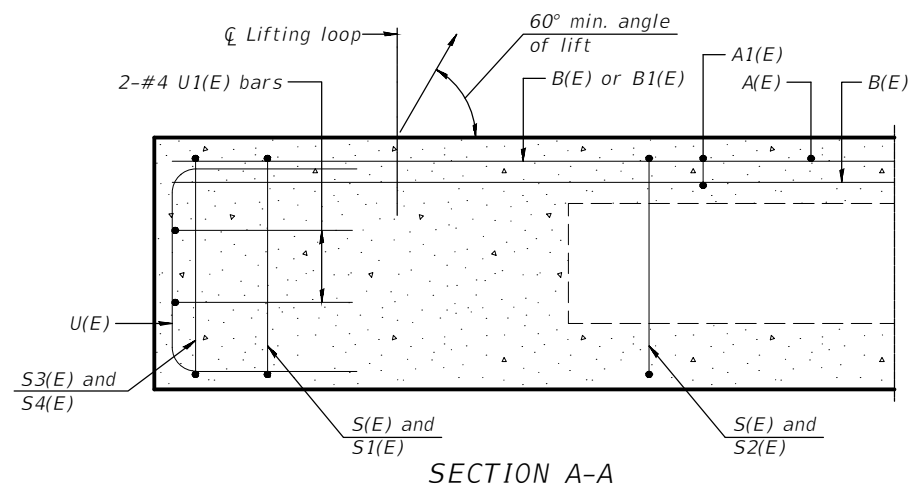

**PERU MORRIS**  
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 ILLINOIS

**DUPONT ROAD FAS 1273**  
**SECTION 19-00173-00-BR**  
**GRUNDY COUNTY**

**SUPERSTRUCTURE**

CONTRACT NO. 87756	
CURRENT AS OF: 04/01/2022	
SCALE: AS NOTED	SHEET 10
FILE NO.: 111413.00 Y-	OF 43

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 Drawing Name: R:\USERS\11111413-00 Grundy Co Hwy Dupont Ov Wapucara\CAD\01-PPC BEAM-1.dwg  
 Last Modified: Monday, March 28, 2022 4:50:00 PM  
 Plotted On: Tuesday, March 29, 2022 8:50:36 AM  
 by Kurt Decker



**BAR LIST**  
ONE BEAM ONLY  
(For information only)

Bar	No.	Size	Length	Shape
A(E)	11	#4	3'-7"	—
A1(E)	21	#4	3'-10"	—
B(E)	22	#3	18'-9"	—
B1(E)	4	#3	10'-0"	—
S(E)	50	#4	7'-5"	⌋
S1(E)	8	#4	5'-11"	⌋
S2(E)	42	#4	6'-2"	⌋
S3(E)	8	#4	5'-9"	⌋
S4(E)	8	#4	4'-10"	⌋
U(E)	12	#5	4'-0"	⌋
U1(E)	4	#4	7'-1"	⌋

**SECTION B-B**  
(Showing reinforcement and permissible strand locations)  
Note:  
Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

**MINIMUM BAR LAP**  
#3 bar = 1'-6"

Note:  
Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

Note:  
See sheet 12 of 43 for additional details and Bill of Material.

CONTRACT NO. 87756

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	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: JKC				
DATE: 12/2021				

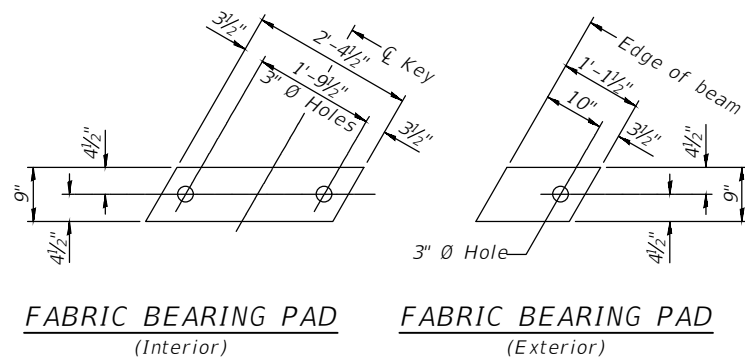

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**DUPONT ROAD FAS 1273**  
**SECTION 19-00173-00-BR**  
**GRUNDY COUNTY**

**21" x 48" PPC DECK BEAM**  
**SPAN 1 (WEST)**

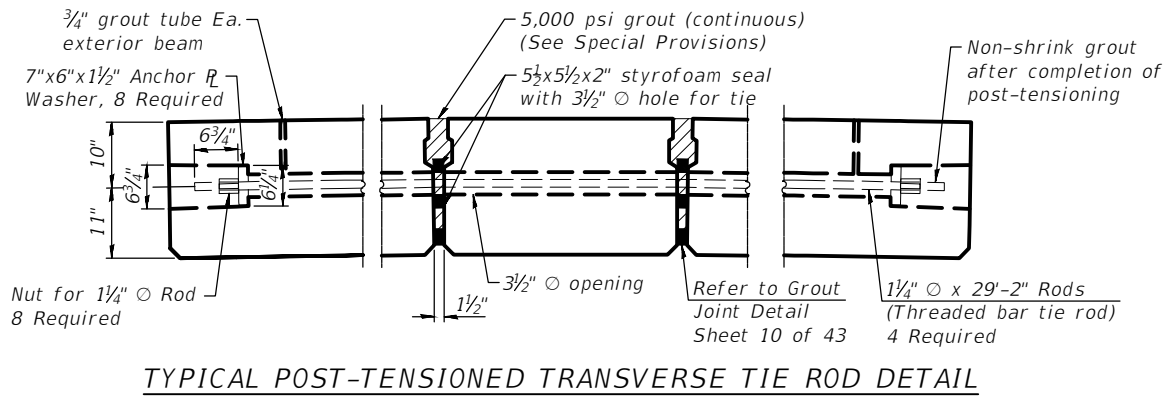
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SCALE: AS NOTED	SHEET 11
FILE NO.: 111413.00 Y-	OF 43

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 Last Modified: Tuesday, March 29, 2022 9:49:14 AM  
 Plotted On: Tuesday, March 29, 2022 9:50:09 AM  
 by Kurt Decker

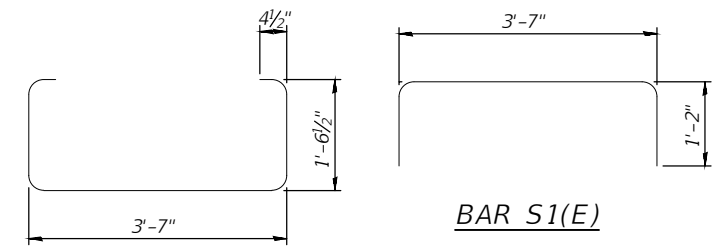


**FABRIC BEARING PAD**  
(Interior) **FIXED**  
**FABRIC BEARING PAD**  
(Exterior)

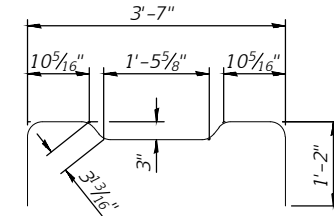
Notes:  
All bearing pads shall be 1" thick.



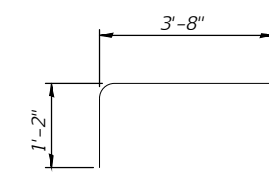
**TYPICAL POST-TENSIONED TRANSVERSE TIE ROD DETAIL**



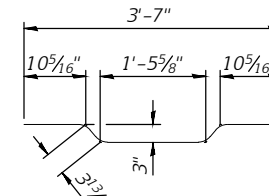
**BAR S(E)**



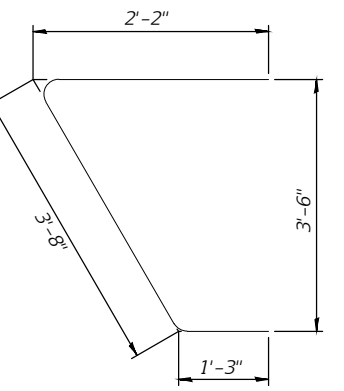
**BAR S2(E)**



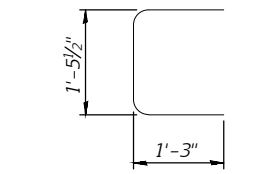
**BAR S4(E)**



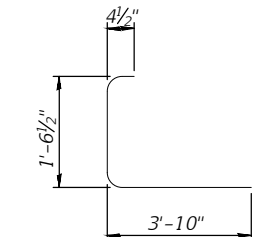
**BAR A1(E)**



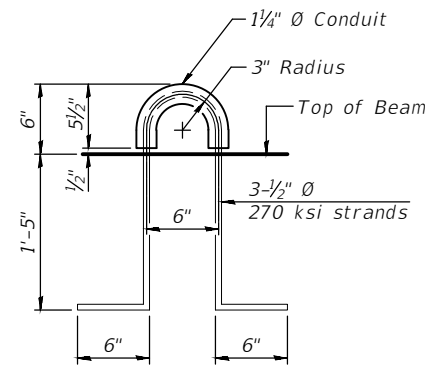
**BAR U1(E)**



**BAR U(E)**



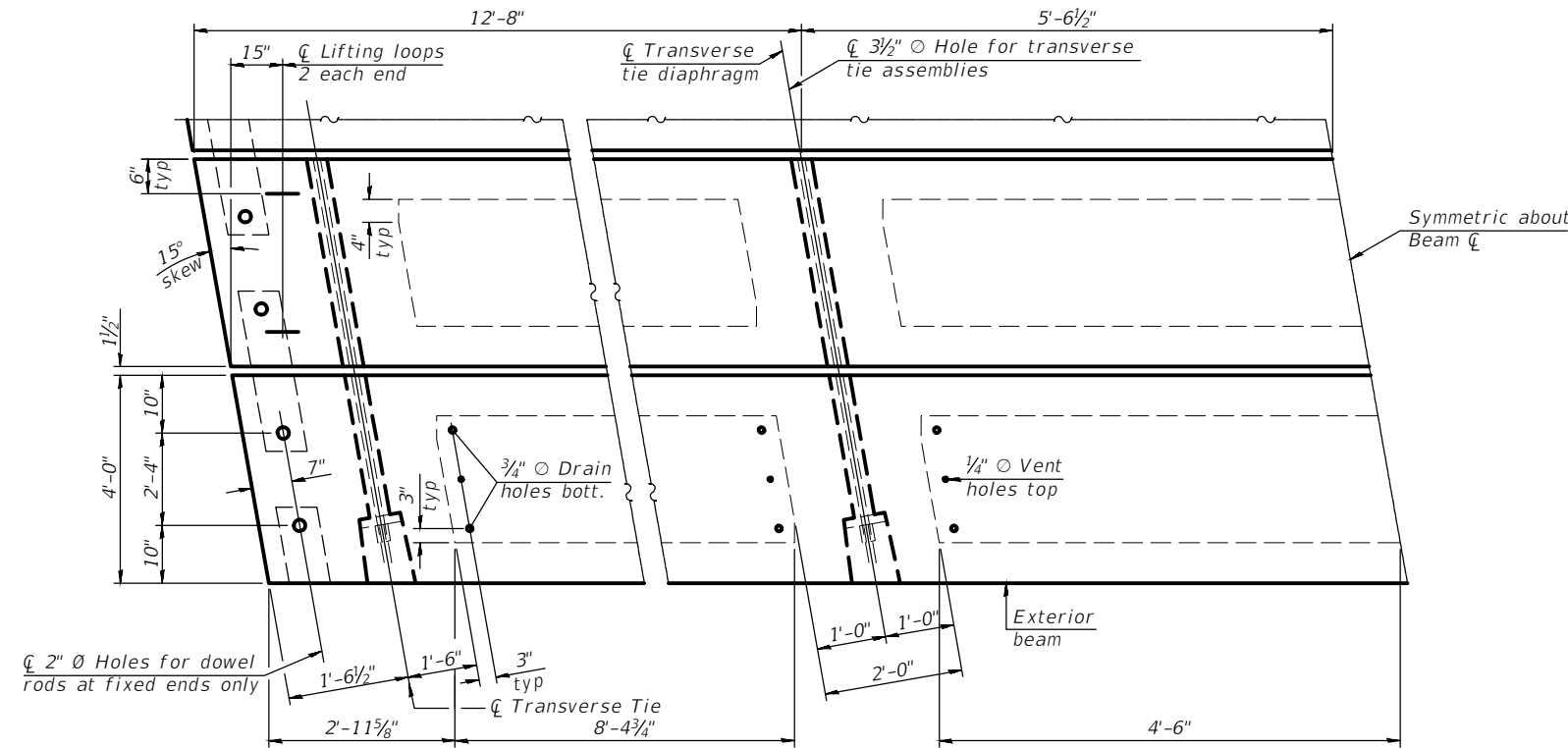
**BAR S3(E)**



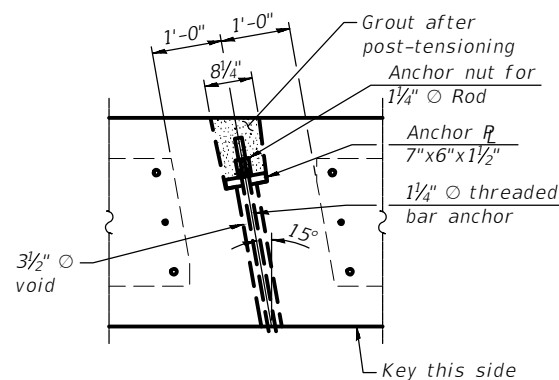
**LIFTING LOOP DETAIL**

**BILL OF MATERIAL**

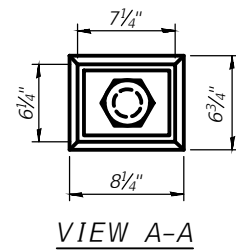
Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	1,020
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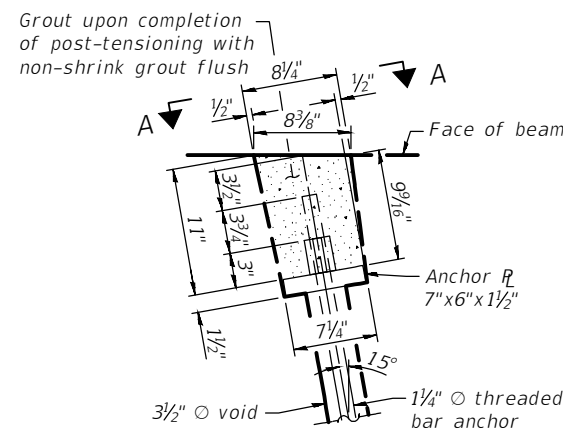
**PLAN VIEW**



**PLAN AT POST-TENSIONED TRANSVERSE TIE ROD**



**VIEW A-A**



**PLAN-THREADED BAR ANCHOR**

**NOTES**

Posttensioning steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.

Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

Threaded bar post-tensioning rod to be 1 1/4" diameter, ultimate stress 150 ksi (Ultimate Strength 187.5 k). Conforming to ASTM A722 Steel hot rolled and proof stressed. The bar deformations shall conform to the requirements of ASTM A615.

VOIDS around threaded bar to be grouted after post-tensioning is complete. See Special Provisions for grout and grouting pressures.

All threaded bars shall be initially stressed to not more than 37.5 k (0.2 Fpu, temporary) and the nut tightened. After all bars have been stressed to 37.5 k, the jacking may commence for 112.5 k (0.6 Fpu) maximum transfer load (lockoff).

CONTRACT NO. 87756

DRAWN BY: KED	LEVEL	BY	DATE	REVISIONS	DESCRIPTION
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DATE: 12/2021					

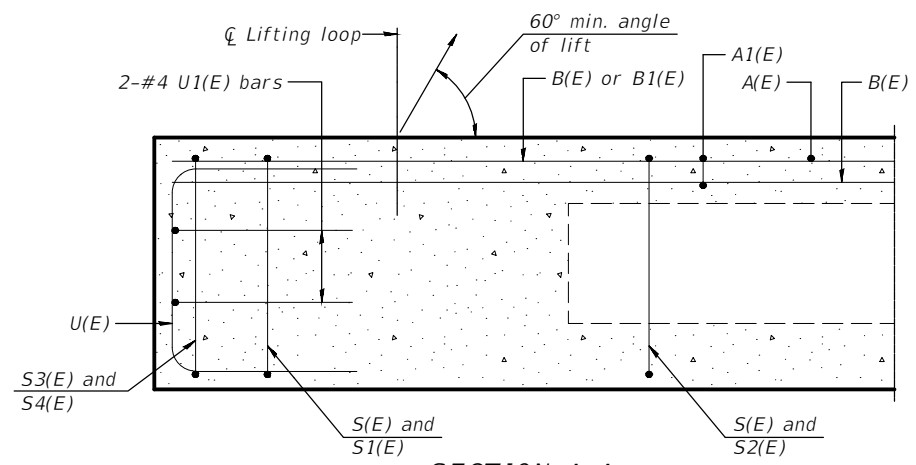

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**DUPONT ROAD FAS 1273**  
**SECTION 19-00173-00-BR**  
**GRUNDY COUNTY**

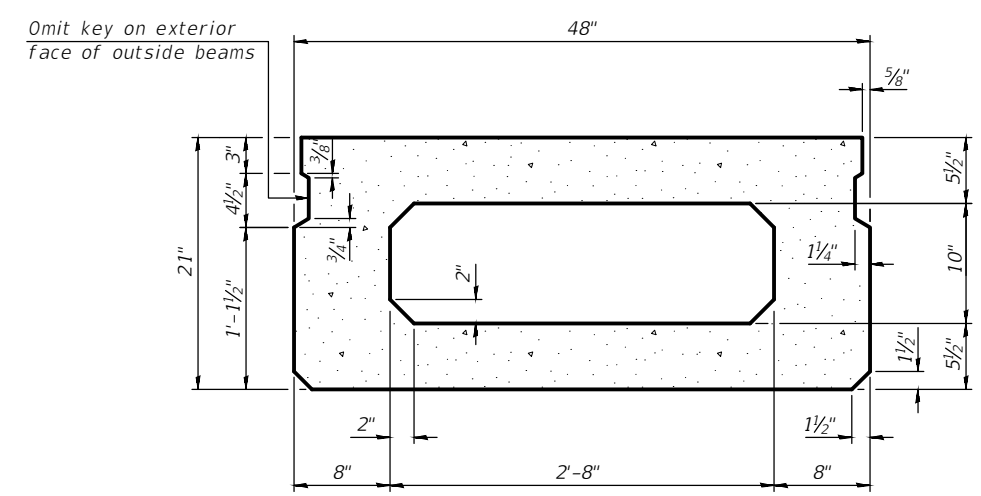
**21" x 48" PPC DECK BEAM DETAILS**  
**SPAN 1 (WEST)**

CURRENT AS OF: 04/01/2022	SHEET 12
SCALE: AS NOTED	OF 43
FILE NO.: 111413.00 Y-	

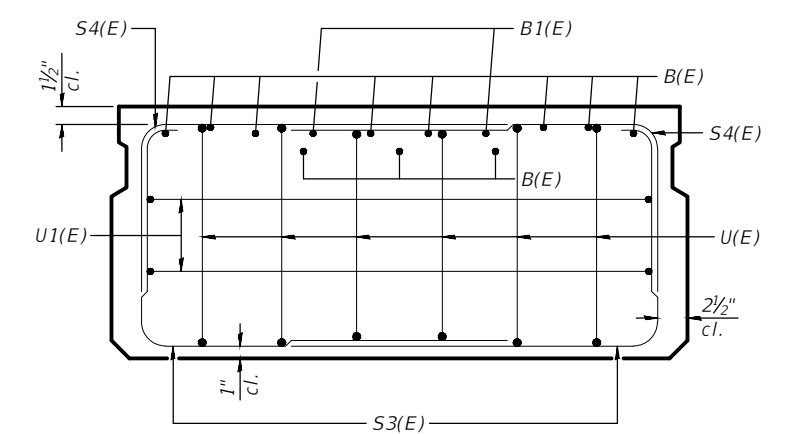
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 Last Modified: Monday, March 28, 2022 4:50:16 PM  
 Plotted On: Tuesday, March 29, 2022 9:48:17 AM  
 by Kurt Decker



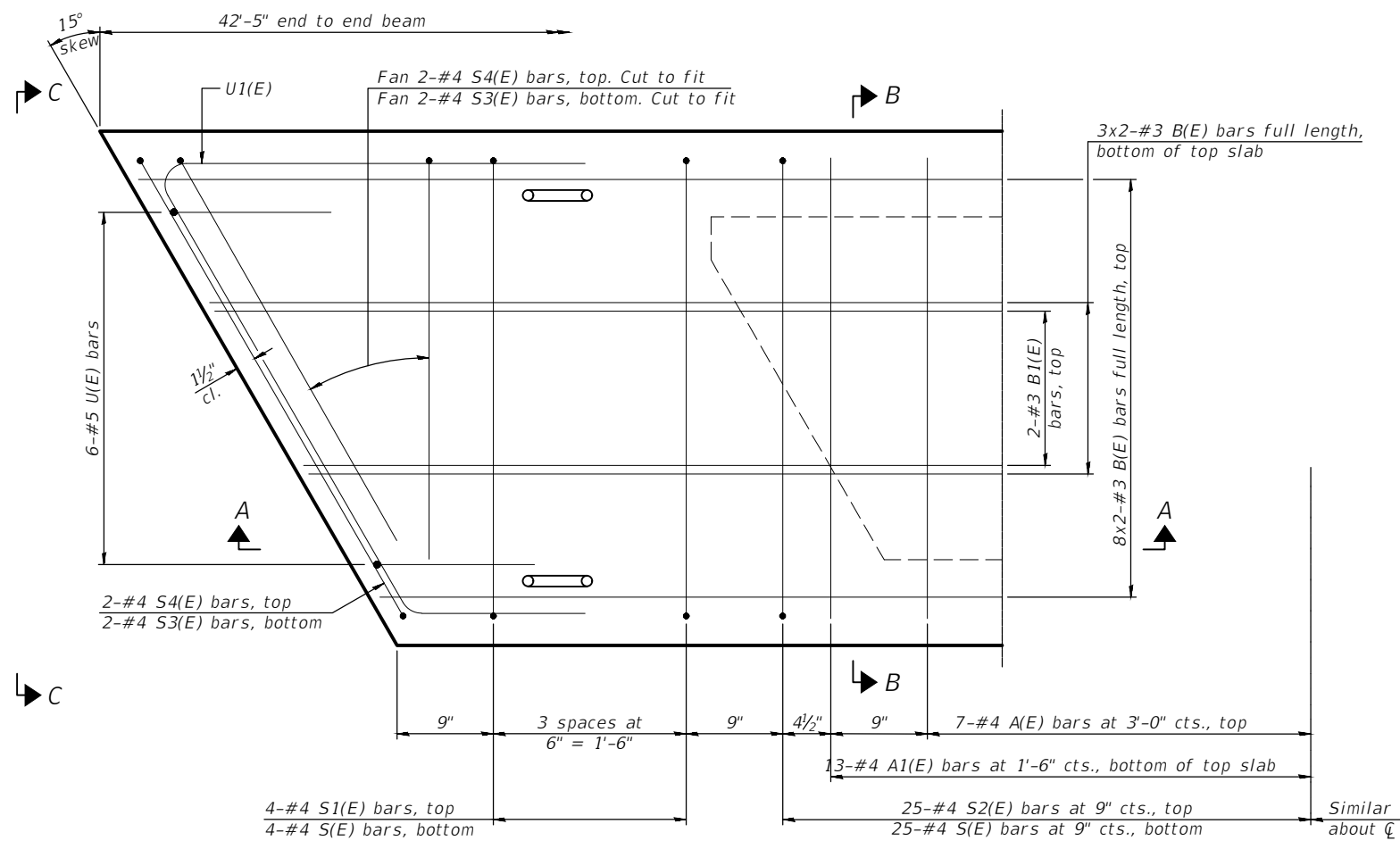
**SECTION A-A**



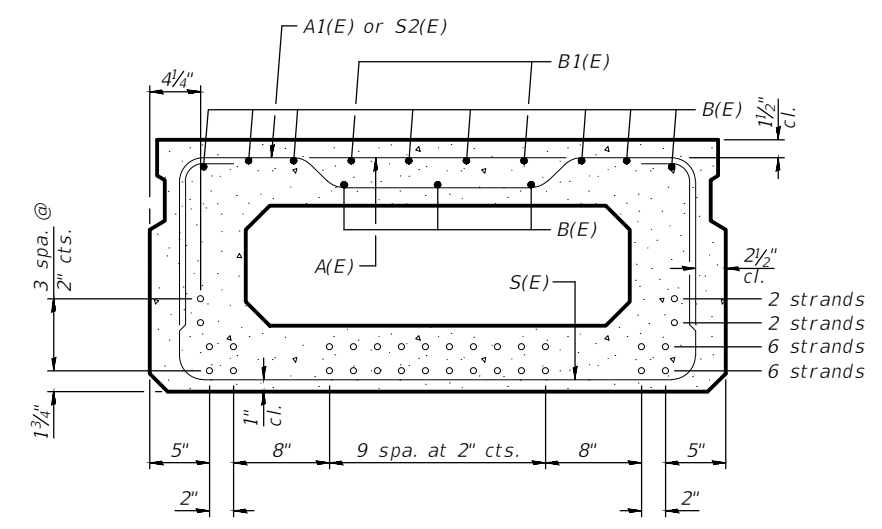
**SECTION B-B**  
(Showing dimensions)



**VIEW C-C**



**PLAN VIEW**



**SECTION B-B**  
(Showing reinforcement and permissible strand locations)

Note:  
Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

**BAR LIST**  
**ONE BEAM ONLY**  
(For information only)

Bar	No.	Size	Length	Shape
A(E)	13	#4	3'-7"	—
A1(E)	25	#4	3'-10"	—
B(E)	22	#3	21'-9"	—
B1(E)	4	#3	10'-0"	—
S(E)	57	#4	7'-5"	U
S1(E)	8	#4	5'-11"	U
S2(E)	49	#4	6'-2"	U
S3(E)	8	#4	5'-9"	U
S4(E)	8	#4	4'-10"	U
U(E)	12	#5	4'-0"	U
U1(E)	4	#4	7'-1"	U

Note:  
See sheet 14 of 43 for additional details and Bill of Material.

**MINIMUM BAR LAP**  
#3 bar = 1'-6"

Note:  
Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

CONTRACT NO. 87756

DRAWN BY: KED	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: JKC				
DATE: 12/2021				

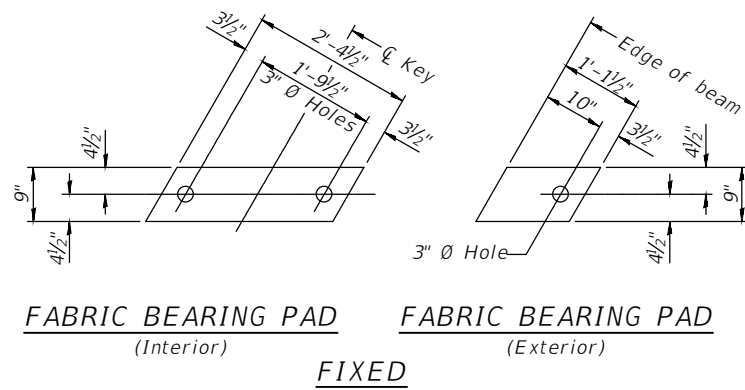

**PERU MORRIS**  
 OTTAWA MENDOTA  
 ILLINOIS

**DUPONT ROAD FAS 1273**  
**SECTION 19-00173-00-BR**  
**GRUNDY COUNTY**

**21" x 48" PPC DECK BEAM**  
**SPAN 2 (CENTER)**

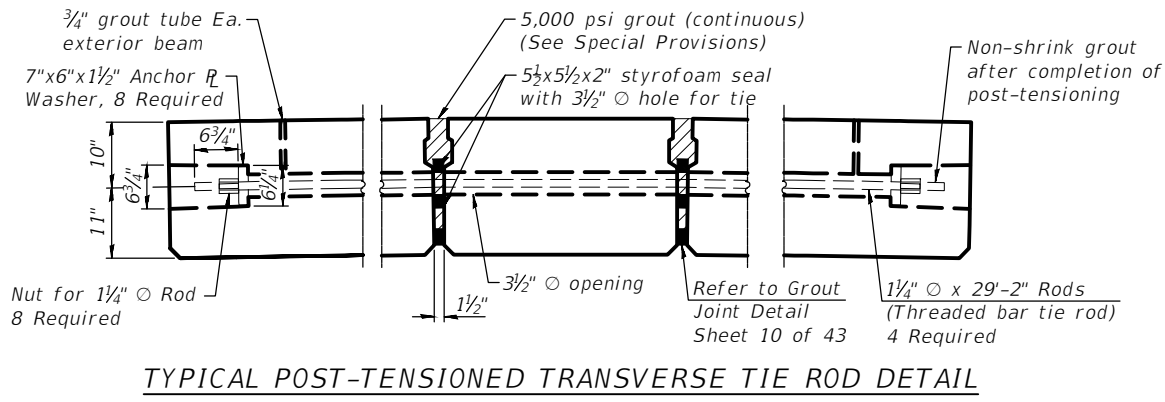
CURRENT AS OF: 04/01/2022	
SCALE: AS NOTED	SHEET 13
FILE NO.: 111413.00 Y-	OF 43

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 Drawing Name: R:\USERS\11111413-00 Grundy Co Hwy Dupont Ov Waupesa\CAD\014-PPC BEAM DTLS-2.dwg  
 Last Modified: Monday, March 28, 2022 4:50:48 PM. Plotted On: Tuesday, March 29, 2022 9:47:44 AM. by Kurt Decker

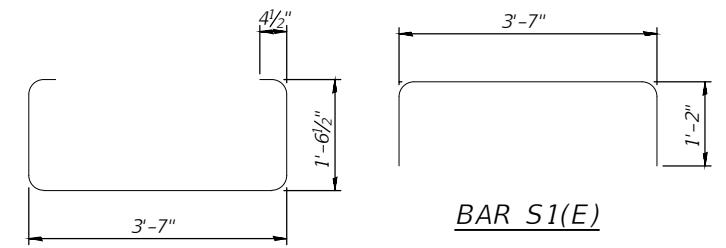


**FABRIC BEARING PAD**  
(Interior) **FIXED**  
**FABRIC BEARING PAD**  
(Exterior)

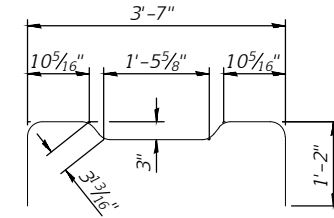
Notes:  
All bearing pads shall be 1" thick.



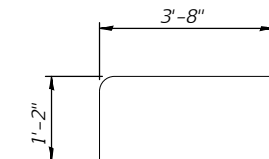
**TYPICAL POST-TENSIONED TRANSVERSE TIE ROD DETAIL**



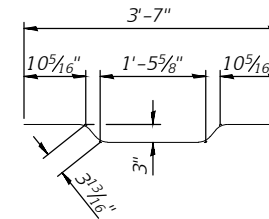
**BAR S(E)**



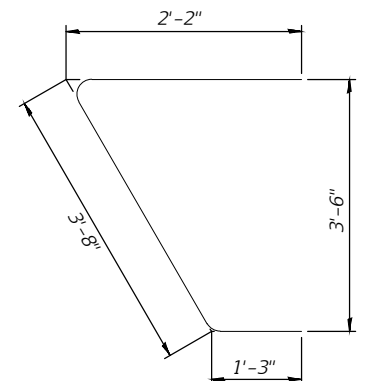
**BAR S2(E)**



**BAR S4(E)**

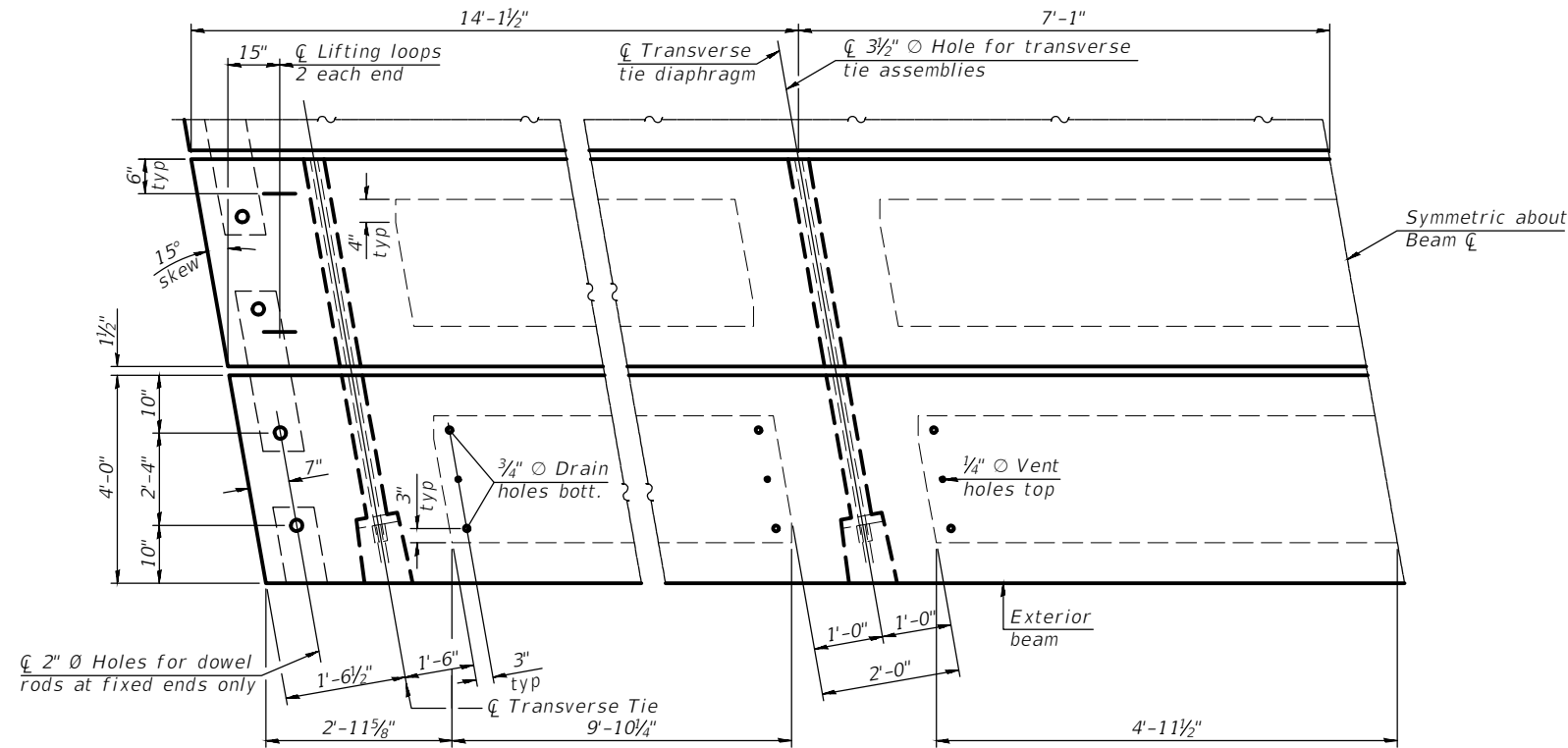


**BAR A1(E)**

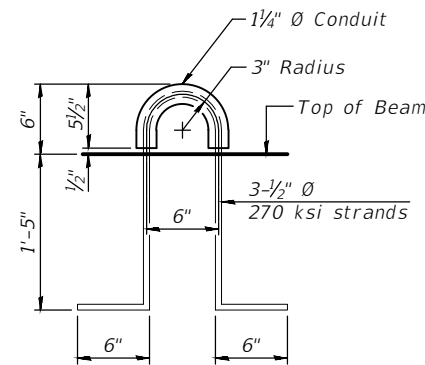


**BAR U(E)**

**BAR U1(E)**



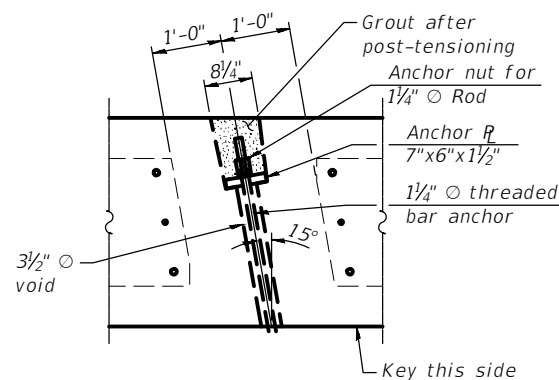
**PLAN VIEW**



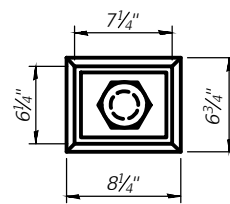
**LIFTING LOOP DETAIL**

**BILL OF MATERIAL**

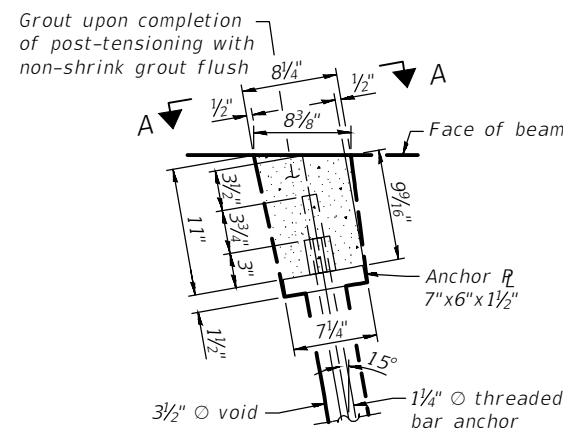
Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	1,188
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**PLAN AT POST-TENSIONED TRANSVERSE TIE ROD**



**VIEW A-A**



**PLAN-THREADED BAR ANCHOR**

**NOTES**

- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
- A minimum 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
- Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
- Compressive strength of prestressed concrete,  $f'_c$ , shall be 6000 psi.
- Compressive strength of prestressed concrete at release,  $f'_{ci}$ , shall be 5000 psi.
- Threaded bar post-tensioning rod to be 1/4" diameter, ultimate stress 150 ksi (Ultimate Strength 187.5 k). Conforming to ASTM A722 Steel hot rolled and proof stressed. The bar deformations shall conform to the requirements of ASTM A615.
- VOIDS around threaded bar to be grouted after post-tensioning is complete. See Special Provisions for grout and grouting pressures.
- All threaded bars shall be initially stressed to not more than 37.5 k (0.2  $F_{pu}$ , temporary) and the nut tightened. After all bars have been stressed to 37.5 k, the jacking may commence for 112.5 k (0.6  $F_{pu}$  maximum transfer load (lockoff)).

CONTRACT NO. 87756

DRAWN BY: KED	LEVEL	BY	DATE	REVISIONS	DESCRIPTION
CHECKED BY: JKC					
DATE: 12/2021					

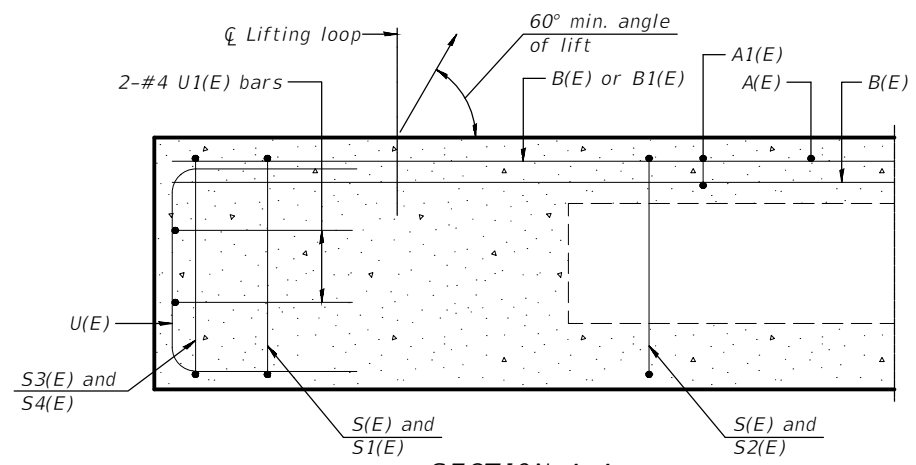
PERU MORRIS  
 OTTAWA MENDOTA  
 ILLINOIS

**DUPONT ROAD FAS 1273**  
**SECTION 19-00173-00-BR**  
**GRUNDY COUNTY**

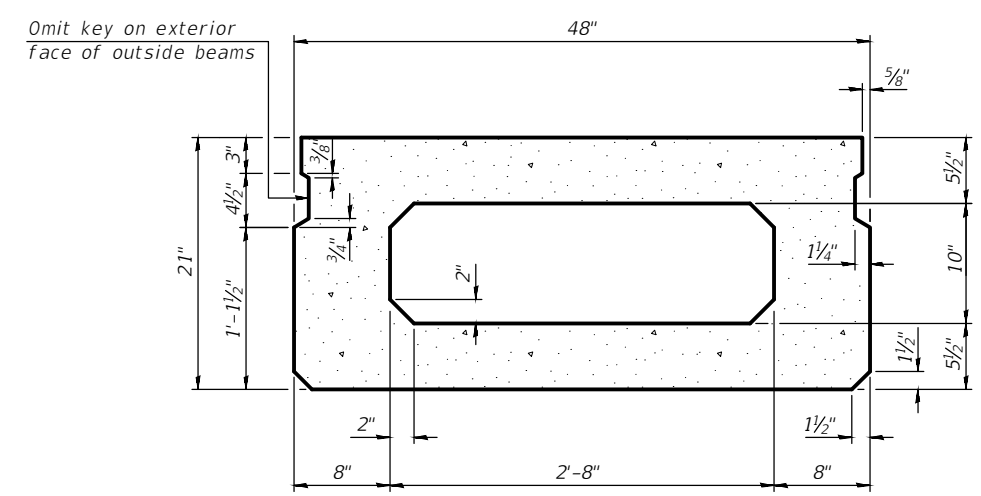
**21" x 48" PPC DECK BEAM DETAILS**  
**SPAN 2 (CENTER)**

CURRENT AS OF: 04/01/2022	SHEET 14
SCALE: AS NOTED	OF 43
FILE NO.: 111413.00 Y-	

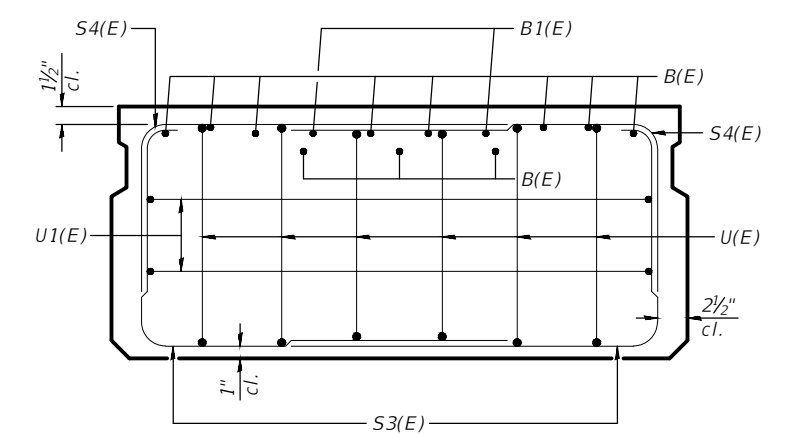
CHAMLIN & ASSOCIATES, INC. © 2021  
 Drawing Name: R:\USERS\11111413-00 Grundy Co Hwy Dupont Ov Wapucara\CAD\015-PPC BEAM-3.dwg  
 Last Modified: Monday, March 28, 2022 4:48:01 PM  
 Plotted On: Tuesday, March 29, 2022 9:47:14 AM  
 by Kurt Decker



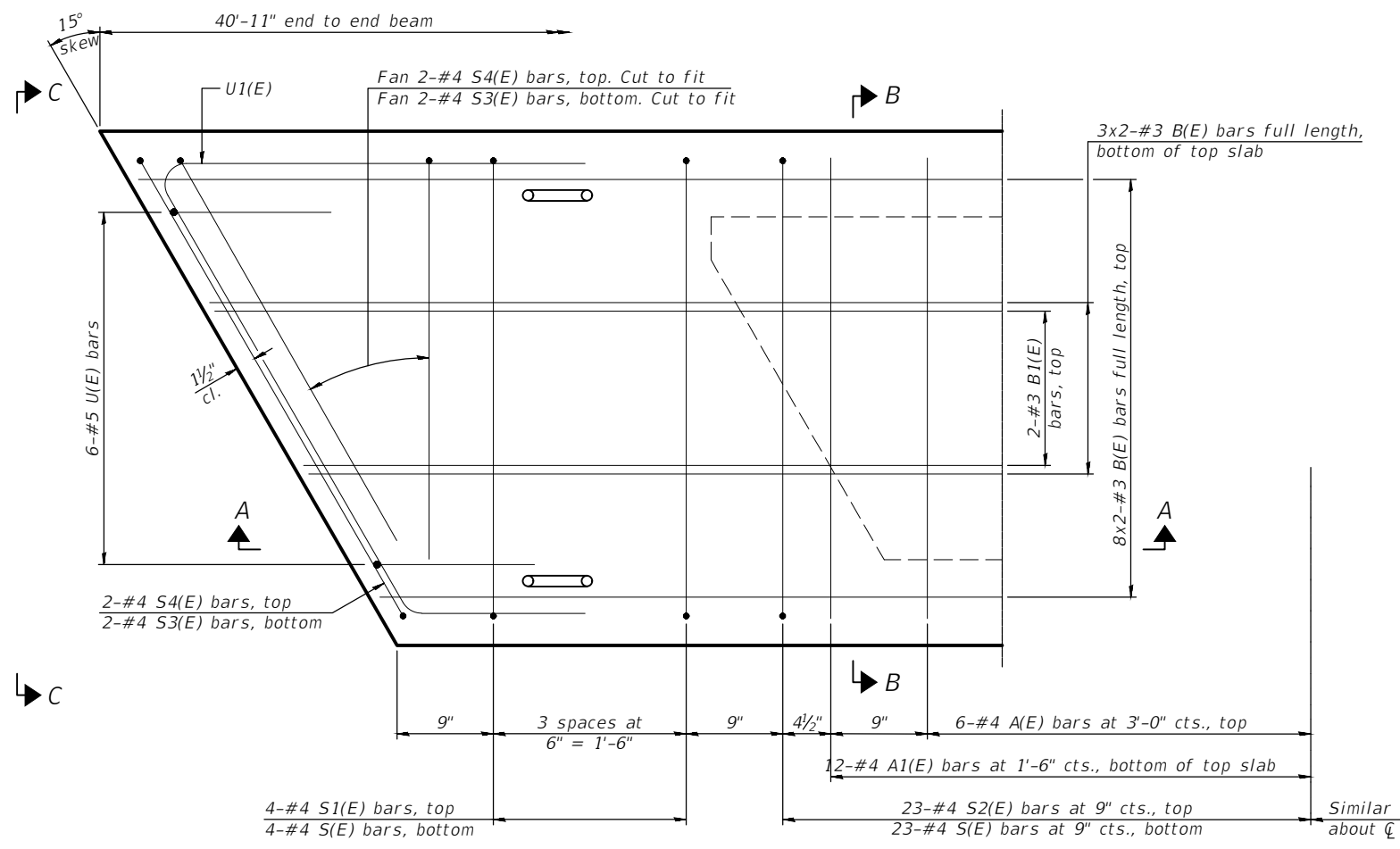
**SECTION A-A**



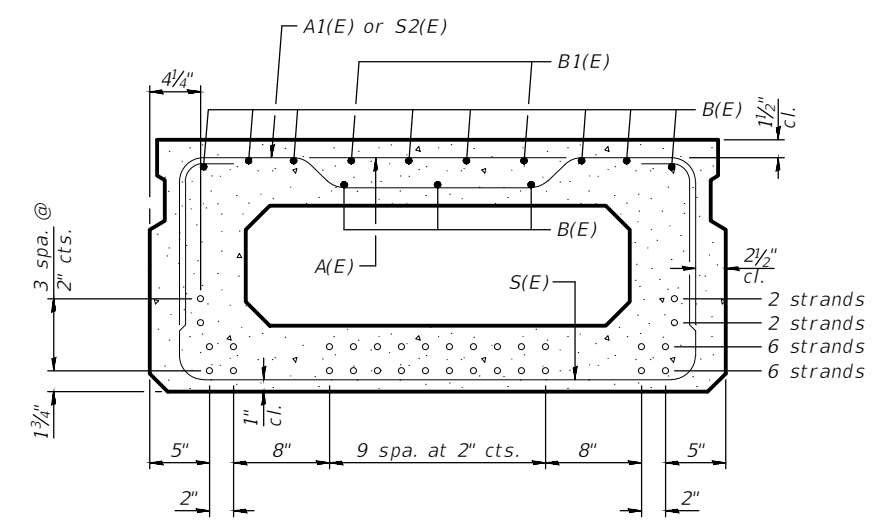
**SECTION B-B**  
(Showing dimensions)



**VIEW C-C**



**PLAN VIEW**



**SECTION B-B**  
(Showing reinforcement and permissible strand locations)

Note:  
Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

**BAR LIST**  
**ONE BEAM ONLY**  
(For information only)

Bar	No.	Size	Length	Shape
A(E)	12	#4	3'-7"	—
A1(E)	24	#4	3'-10"	—
B(E)	22	#3	21'-0"	—
B1(E)	4	#3	10'-0"	—
S(E)	54	#4	7'-5"	⌋
S1(E)	8	#4	5'-11"	⌋
S2(E)	46	#4	6'-2"	⌋
S3(E)	8	#4	5'-9"	⌋
S4(E)	8	#4	4'-10"	⌋
U(E)	12	#5	4'-0"	⌋
U1(E)	4	#4	7'-1"	⌋

Note:  
See sheet 16 of 43 for additional details and Bill of Material.

**MINIMUM BAR LAP**  
#3 bar = 1'-6"

Note:  
Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

CONTRACT NO. 87756

DRAWN BY: KED	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: JKC				
DATE: 12/2021				

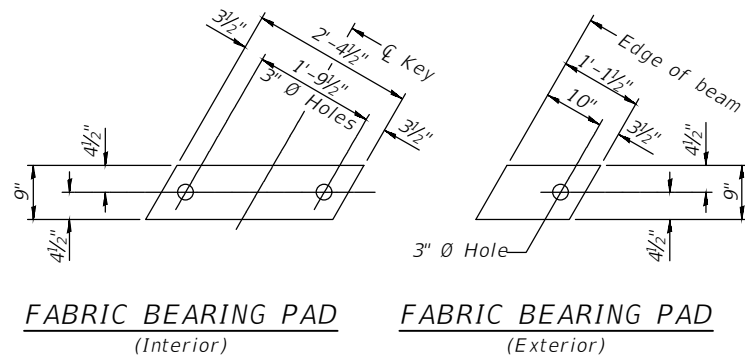
PERU MORRIS  
OTTAWA MENDOTA  
ILLINOIS

**DUPONT ROAD FAS 1273**  
**SECTION 19-00173-00-BR**  
**GRUNDY COUNTY**

**21" x 48" PPC DECK BEAM**  
**SPAN 3 (EAST)**

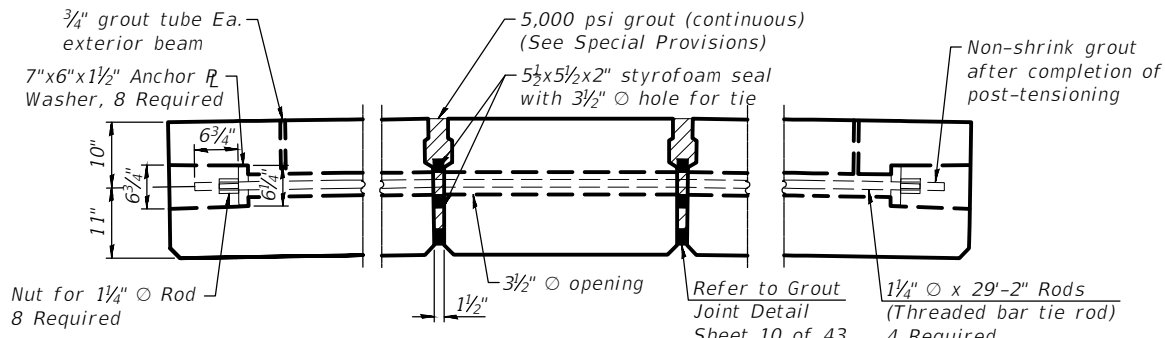
CURRENT AS OF: 04/01/2022	
SCALE: AS NOTED	SHEET 15
FILE NO.: 111413.00 Y-	OF 43

CHAMLIN & ASSOCIATES, INC. © 2021  
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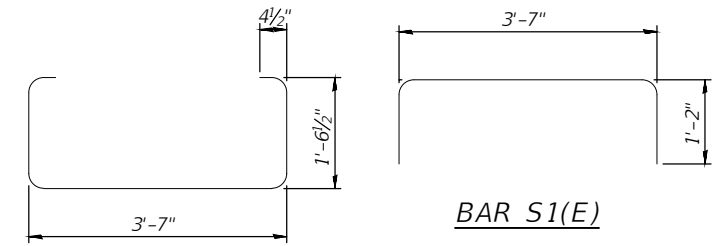


**FABRIC BEARING PAD**  
(Interior) **FIXED**  
**FABRIC BEARING PAD**  
(Exterior)

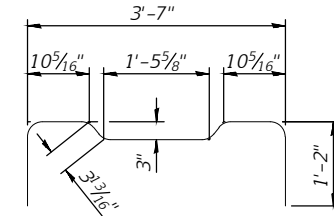
Notes:  
All bearing pads shall be 1" thick.



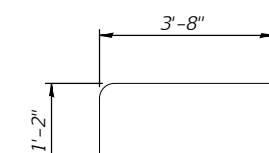
**TYPICAL POST-TENSIONED TRANSVERSE TIE ROD DETAIL**



**BAR S(E)**



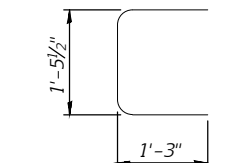
**BAR S2(E)**



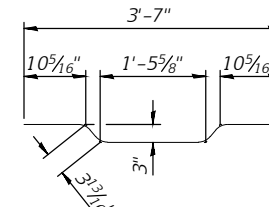
**BAR S3(E)**



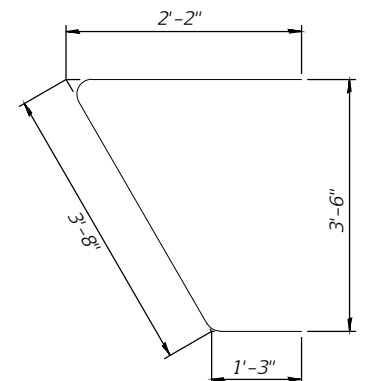
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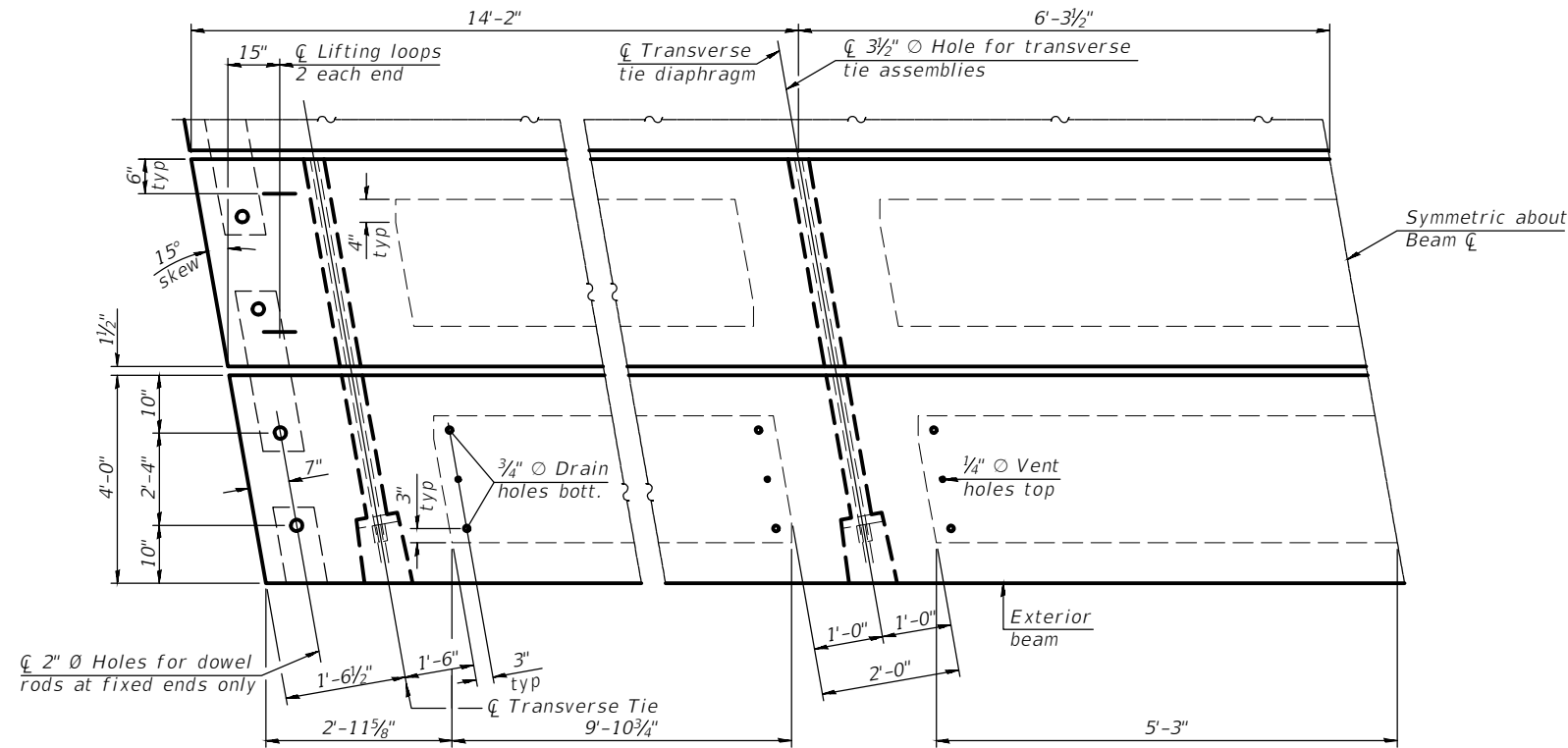
**BAR U(E)**



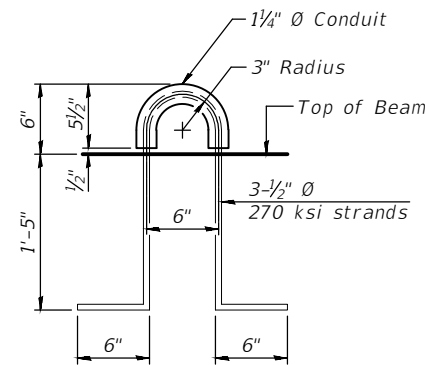
**BAR A1(E)**



**BAR U1(E)**



**PLAN VIEW**



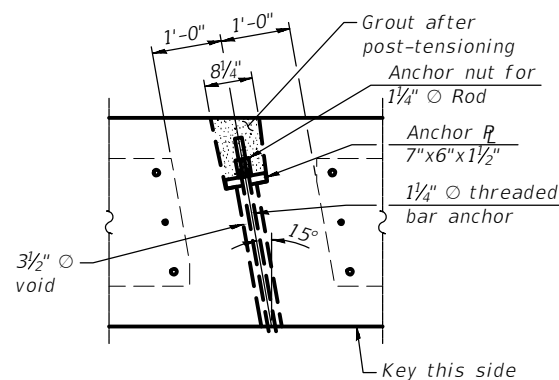
**LIFTING LOOP DETAIL**

**BILL OF MATERIAL**

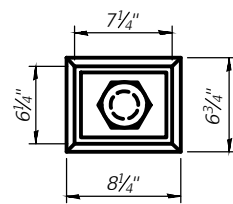
Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	1,145
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**NOTES**

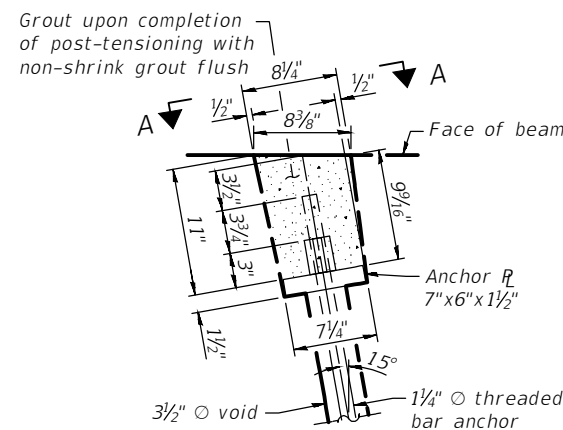
- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- Two 5/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
- A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
- Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
- Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
- Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.
- Threaded bar post-tensioning rod to be 1 1/4" diameter, ultimate stress 150 ksi (Ultimate Strength 187.5 k). Conforming to ASTM A722 Steel hot rolled and proof stressed. The bar deformations shall conform to the requirements of ASTM A615.
- VOIDS around threaded bar to be grouted after post-tensioning is complete. See Special Provisions for grout and grouting pressures.
- All threaded bars shall be initially stressed to not more than 37.5 k (0.2 Fpu, temporary) and the nut tightened. After all bars have been stressed to 37.5 k, the jacking may commence for 112.5 k (0.6 Fpu maximum transfer load (lockoff)).



**PLAN AT POST-TENSIONED TRANSVERSE TIE ROD**



**VIEW A-A**



**PLAN-THREADED BAR ANCHOR**

DRAWN BY: KED	LEVEL	BY	DATE	REVISIONS	DESCRIPTION
CHECKED BY: JKC					
DATE: 12/2021					


**PERU MORRIS**  
 OTTAWA MENDOTA  
 ILLINOIS

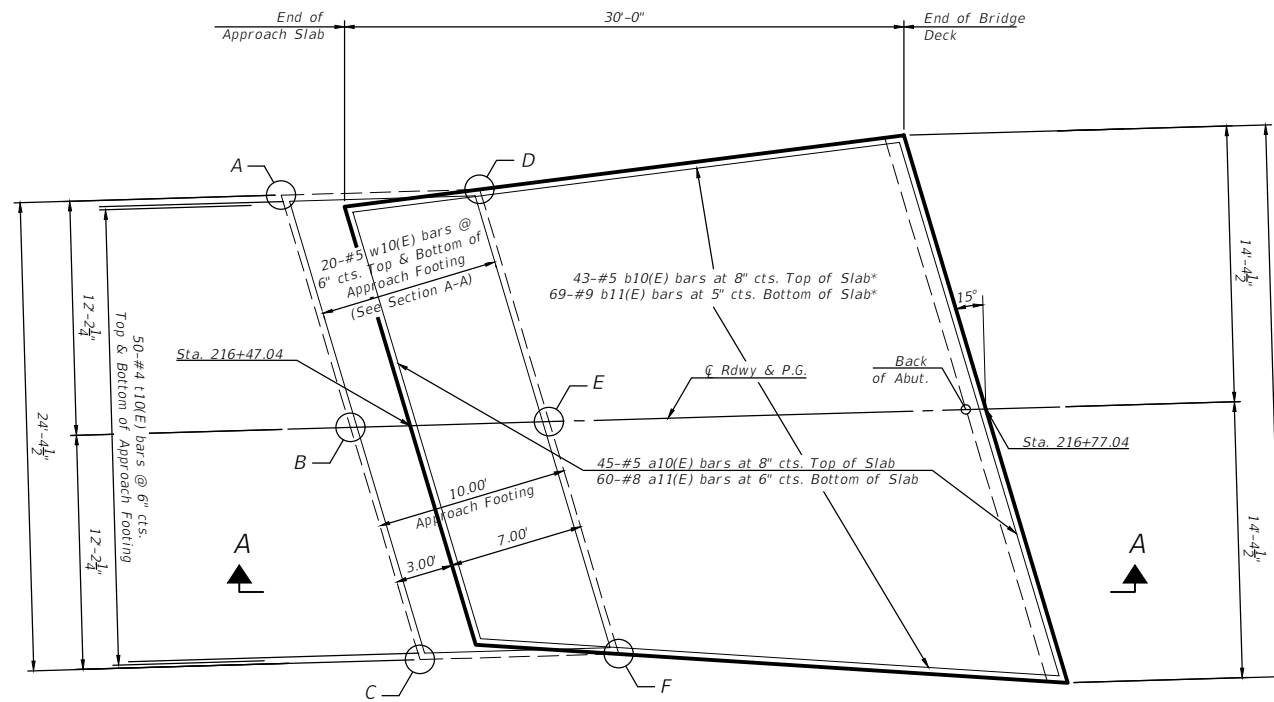
**DUPONT ROAD FAS 1273**  
**SECTION 19-00173-00-BR**  
**GRUNDY COUNTY**

**21" x 48" PPC DECK BEAM DETAILS**  
**SPAN 3 (EAST)**

CURRENT AS OF: 04/01/2022		CONTRACT NO. 87756
SCALE: AS NOTED	SHEET 16	
FILE NO.: 111413.00 Y-	OF 43	





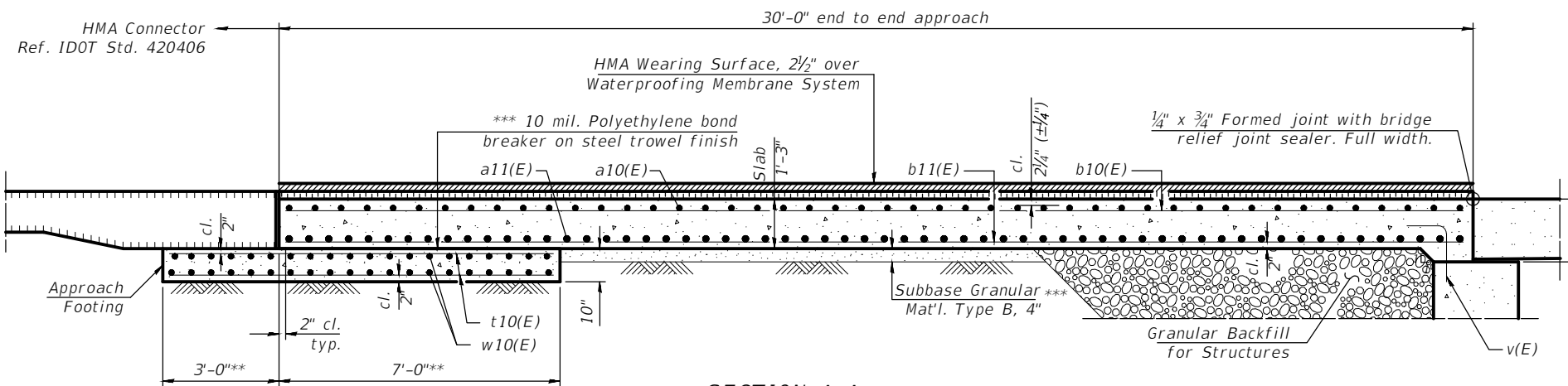


WEST APPROACH SLAB PLAN

Notes:  
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).  
 Approach footing concrete shall be paid for as Concrete Structures.  
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.  
 Cost of excavation for approach slab and footing included with Concrete Structures.  
 For Granular Backfill for Structures and drainage treatment details, see sheet 9 of 43.

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Point	West Approach			
	Station	Offset	Top	Bottom
A	216+40.66	-12.19	552.02	551.19
B	216+43.93	0.00	552.25	551.42
C	216+47.20	12.19	551.99	551.16
D	216+51.01	-12.19	551.97	551.14
E	216+54.28	0.00	552.20	551.37
F	216+57.55	12.19	551.94	551.11



SECTION A-A

\*Maintain specified spacing at wider end. Tighten spacing evenly at narrower end of slab to match taper.  
 \*\*Perpendicular to skew  
 \*\*\* Cost included with Concrete Superstructures (Approach Slab)

BILL OF MATERIAL (1 Approach)

Bar	No.	Size	Length	Shape	
a10(E)	45	#5	****	————	
a11(E)	60	#8	****	————	
b10(E)	43	#5	29'-8"	————	
b11(E)	69	#9	29'-8"	————	
t10(E)	100	#4	10'-0"	————	
w10(E)	40	#5	24'-10"	————	
Concrete Superstructure (Approach Slab)				Cu. Yd.	36.0
Concrete Structures				Cu. Yd.	8.0
Reinforcement Bars, Epoxy Coated				Pound	16106.0
Waterproofing Membrane System				Sq. Yd.	86.2

\*\*\*\* Length varies from 29'-6" to 23'-6".  
 Order 29'-6" length and trim to fit.

CONTRACT NO. 87756

CHAMLIN & ASSOCIATES, INC. © 2021  
 Drawing Name: R:\USERS\11111413-00 Grundy Co Hwy Dupont Ov Waupecora\CAD\018-APPR SLAB WEST DTLS.dwg Last Modified: Monday, March 28, 2022 4:53:58 PM Plotted On: Tuesday, March 29, 2022 9:45:26 AM by Kurt Decker

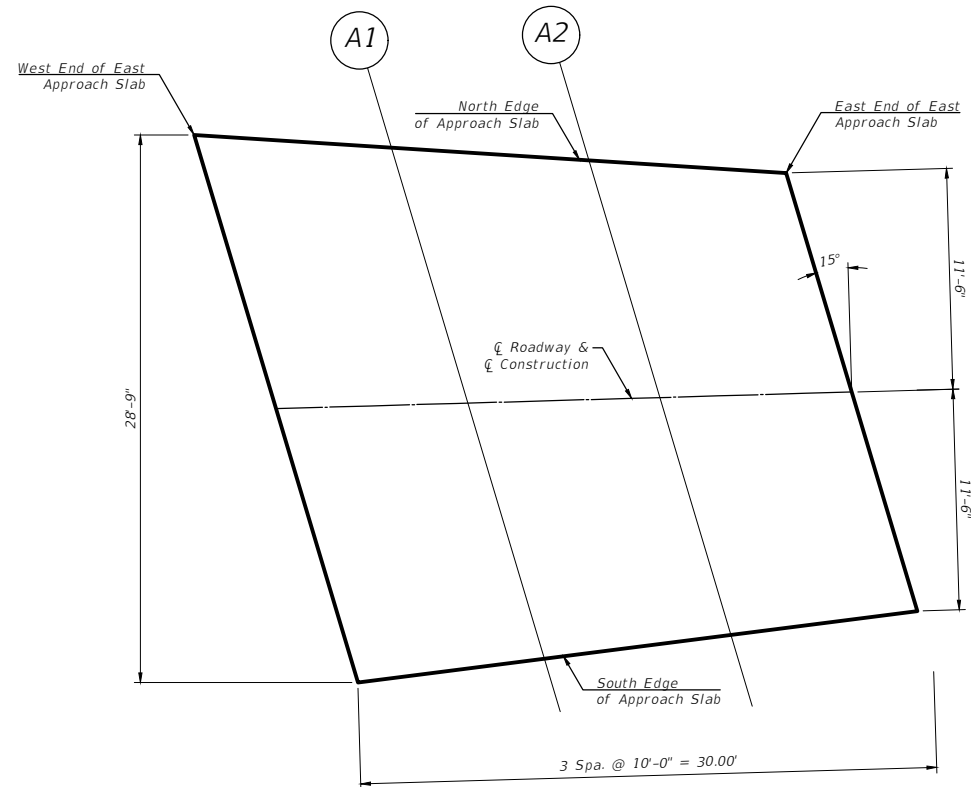
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	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: JKC				
DATE: 12/2021				

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DUPONT ROAD FAS 1273  
 SECTION 19-00173-00-BR  
 GRUNDY COUNTY

BRIDGE APPROACH SLAB DETAILS  
 WEST APPROACH SLAB

CURRENT AS OF: 04/01/2022	
SCALE: AS NOTED	SHEET 18
FILE NO.: 111413.00 Y-	OF 43



PLAN

**NORTH EDGE OF APPROACH SLAB**

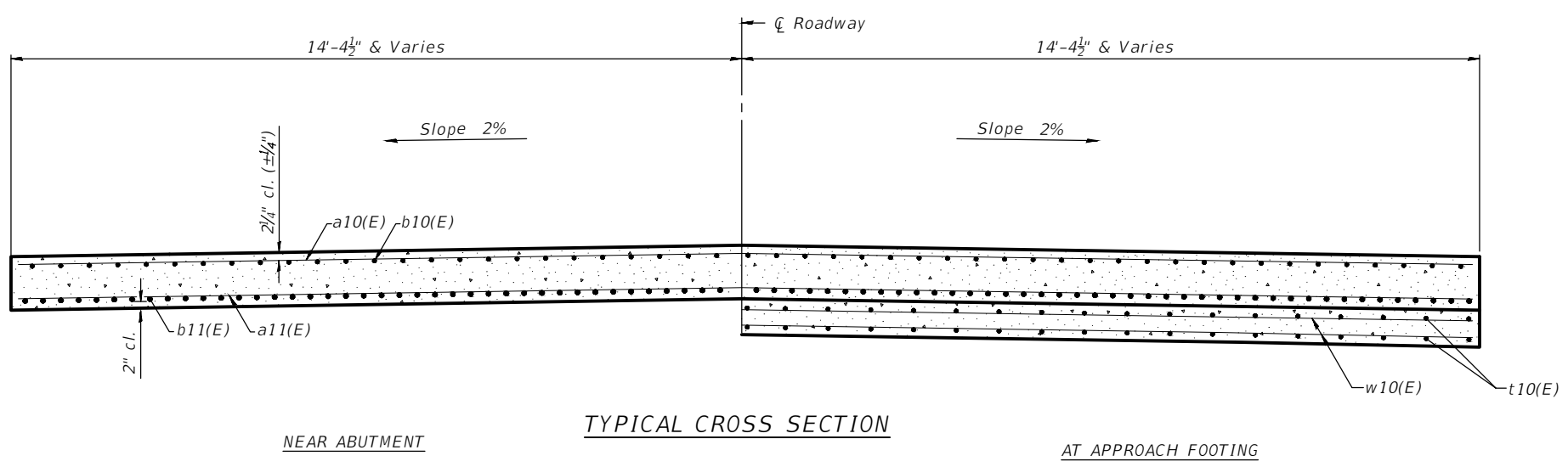
Location	Station	Offset	Top of Concrete Elevations	Theoretical Top of Asphalt Elevations
W. End of E. Approach Slab	217+93.11	-14.375	552.53	552.78
A1	218+03.37	-13.42	552.51	552.76
A2	218+13.63	-12.46	552.48	552.73
E. End of E. Approach Slab	218+23.88	-11.50	552.45	552.70

**CL ROADWAY**

Location	Station	Offset	Top of Concrete Elevations	Theoretical Top of Asphalt Elevations
W. End of E. Approach Slab	217+96.96	0.00	552.81	553.06
A1	218+06.96	0.00	552.76	553.01
A2	218+16.96	0.00	552.72	552.97
E. End of E. Approach Slab	218+26.96	0.00	552.67	552.92

**SOUTH EDGE OF APPROACH SLAB**

Location	Station	Offset	Top of Concrete Elevations	Theoretical Top of Asphalt Elevations
W. End of E. Approach Slab	218+00.82	14.375	552.50	552.75
A1	218+10.56	13.42	552.47	552.72
A2	218+20.30	12.46	552.45	552.70
E. End of E. Approach Slab	218+30.05	11.50	552.43	552.68



TYPICAL CROSS SECTION

CONTRACT NO. 87756

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Drawing Name: R:\USERS\111\111413-00 Grundy Co Hwy Dupont Ov Waupesa\CAD\019-APPR SLAB EAST.dwg Last Modified: Monday, March 28, 2022 4:57:48 PM Plotted On: Tuesday, March 29, 2022 8:44:53 AM by Kurt Decker

LEVEL	BY	DATE	REVISIONS	DESCRIPTION

**CA**  
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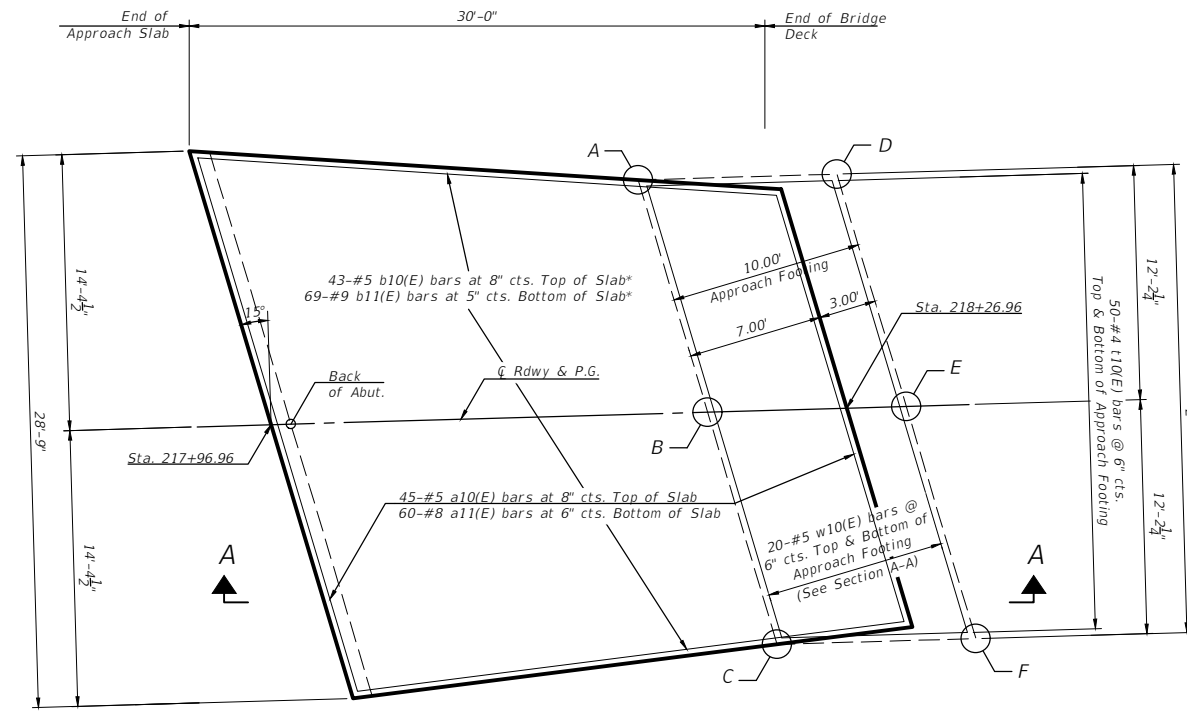
**DUPONT ROAD FAS 1273  
SECTION 19-00173-00-BR  
GRUNDY COUNTY**

**TOP OF SLAB ELEVATIONS  
EAST APPROACH SLAB**

CURRENT AS OF: 04/01/2022	
SCALE: AS NOTED	SHEET 19
FILE NO.: 111413.00 Y-	OF 43

**TOP AND BOTTOM ELEVATIONS  
FOR APPROACH FOOTING**

Point	Station	Offset	Top	Bottom
West Approach				
A	218+16.45	-12.19	551.23	550.39
B	218+19.72	0.00	551.45	550.62
C	218+22.99	12.19	551.20	550.36
D	218+26.80	-12.19	551.18	550.34
E	218+30.07	0.00	551.41	550.58
F	218+33.34	12.19	551.15	550.31



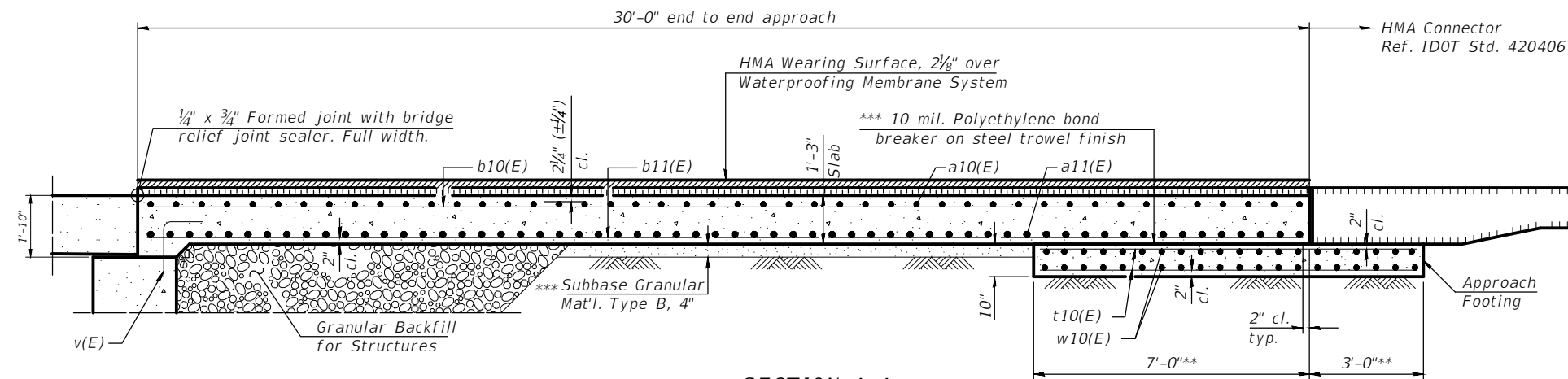
**EAST APPROACH SLAB PLAN**

Notes:  
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).  
 Approach footing concrete shall be paid for as Concrete Structures.  
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.  
 Cost of excavation for approach slab and footing included with Concrete Structures.  
 For Granular Backfill for Structures and drainage treatment details, see sheet 9 of 43.

**BILL OF MATERIAL  
(1 Approach)**

Bar	No.	Size	Length	Shape
a10(E)	45	#5	****	————
a11(E)	60	#8	****	————
b10(E)	43	#5	29'-8"	————
b11(E)	69	#9	29'-8"	————
t10(E)	100	#4	10'-0"	————
w10(E)	40	#5	24'-10"	————
Concrete Superstructure (Approach Slab)			Cu. Yd.	36.0
Concrete Structures			Cu. Yd.	8.0
Reinforcement Bars, Epoxy Coated			Pound	16106.0
Waterproofing Membrane System			Sq. Yd.	86.2

\*\*\*\* Length varies from 29'-6" to 23'-6".  
 Order 29'-6" length and trim to fit.



**SECTION A-A**

\*Maintain specified spacing at wider end. Tighten spacing evenly at narrower end of slab to match taper.  
 \*\*Perpendicular to skew  
 \*\*\* Cost included with Concrete Superstructures (Approach Slab)

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 Drawing Name: R:\USERS\111\111413-00 Grundy Co Hwy Dupont Dr Waupeca\CAD\020-APPR SLAB EAST DTL.dwg Last Modified: Tuesday, March 29, 2022 7:32:59 AM Plotted On: Tuesday, March 29, 2022 9:44:17 AM by Kurt Decker

REVISIONS	LEVEL	BY	DATE	DESCRIPTION

**CA**  
 Chamlin & Associates  
 PERU MORRIS  
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 ILLINOIS

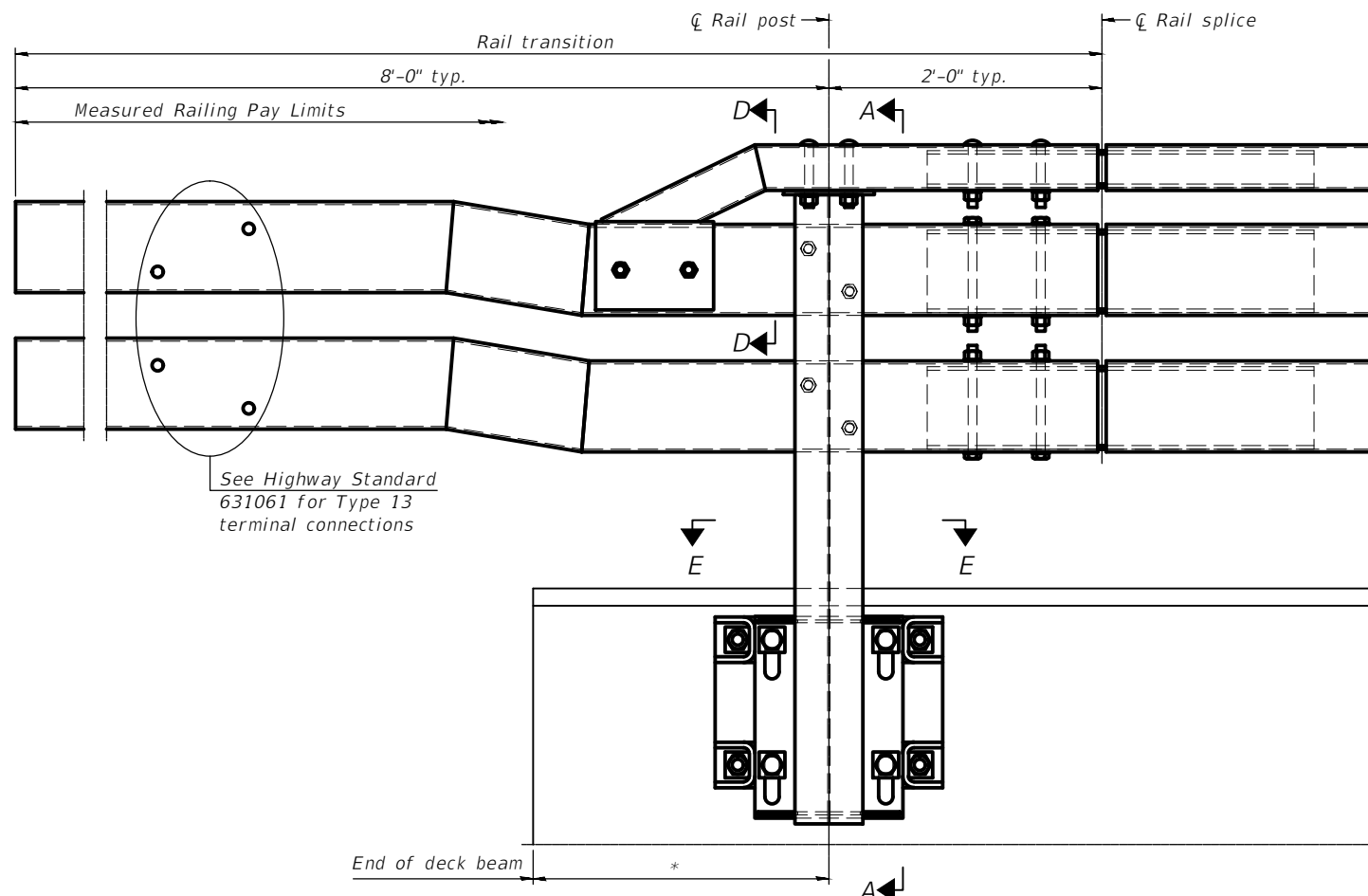
**DUPONT ROAD FAS 1273  
 SECTION 19-00173-00-BR  
 GRUNDY COUNTY**

**BRIDGE APPROACH SLAB DETAILS  
 EAST APPROACH SLAB**

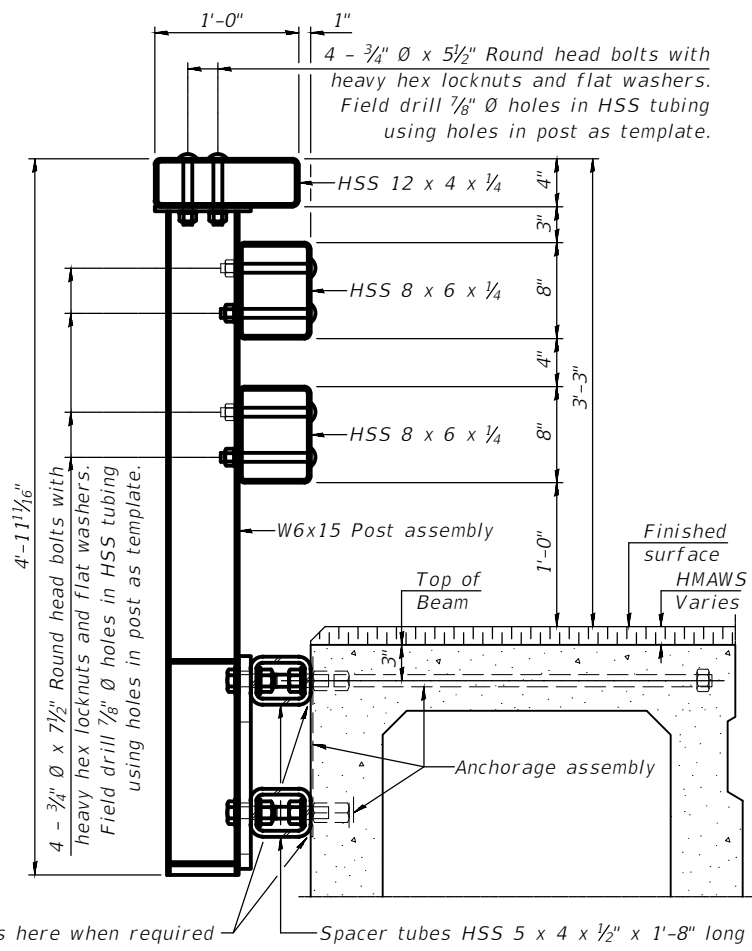
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SCALE: AS NOTED	SHEET 20	
FILE NO.: 111413.00 Y-		OF 43

CONTRACT NO. 87756

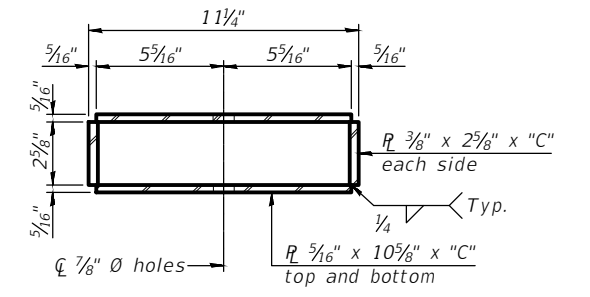
CHAMLIN & ASSOCIATES, INC. © 2021  
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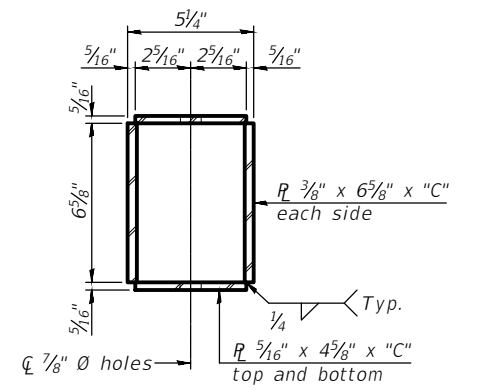
**OUTSIDE ELEVATION OF RAIL**  
 \* 3'-0" at abutments; 3'-0" min. at piers



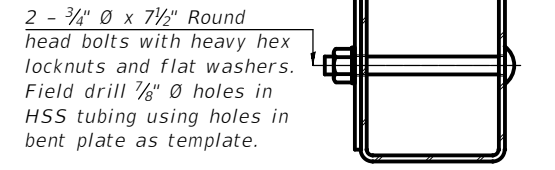
**SECTION A-A**



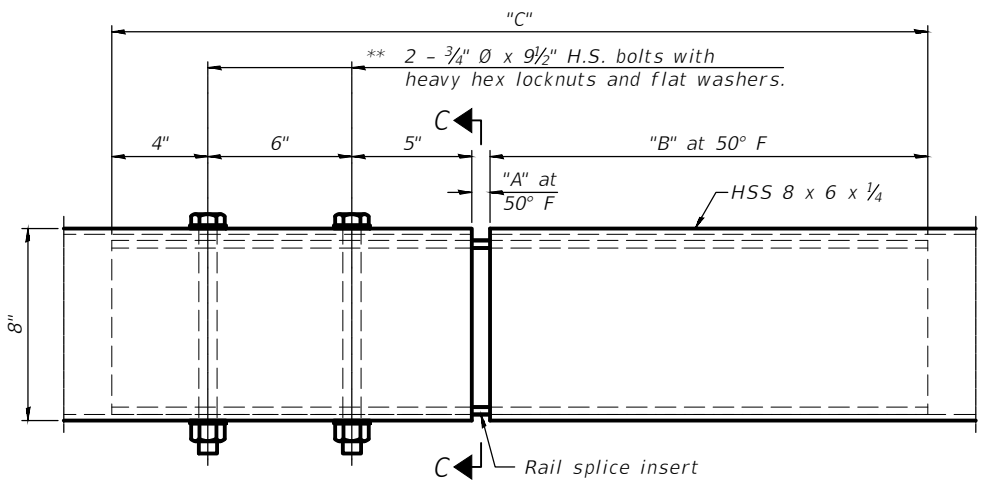
**SECTION B-B**



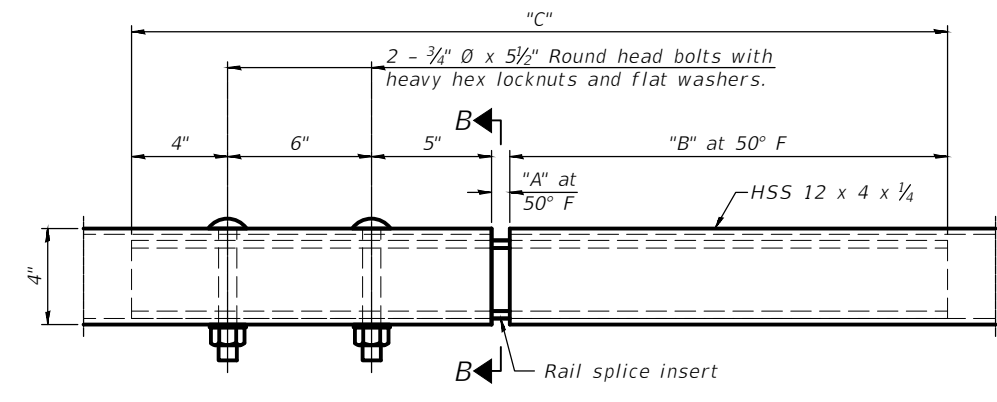
**SECTION C-C**



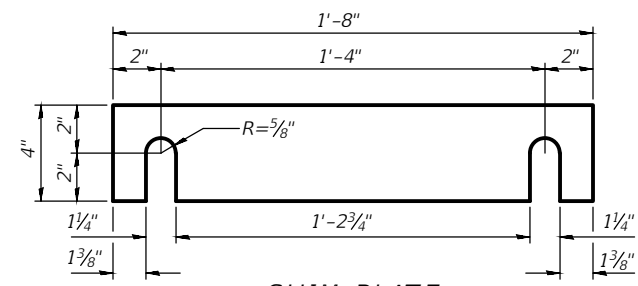
**SECTION D-D**



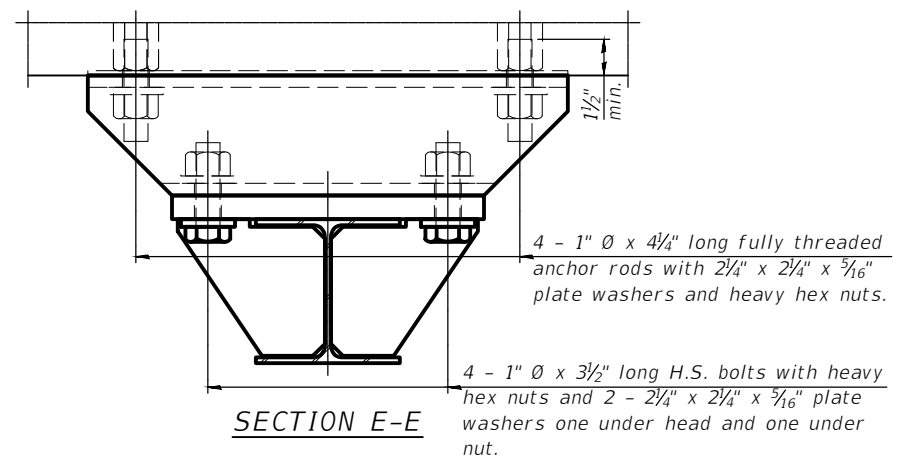
**MIDDLE & BOTTOM RAIL SPLICE ELEVATION**  
 \*\* Bolt orientation shown for middle rail. Flip for bottom rail.



**TOP RAIL SPLICE ELEVATION**



**SHIM PLATE**



**SECTION E-E**

(Sheet 1 of 4)

**RAILING CRITERIA**

MASH 2016 Test Level	4
Rail system weight (plf)	120
Max post spacing	8'-0"
HMAWS thickness range (in.)	1 1/2 - 4 1/4

**SPLICE DIMENSIONS**

Location	T	A	B	C
All locs. not over exp. jts.	0	1/2"	1'-6"	2'-9 1/2"
Over Strip Seal Jt.	≤ 4"	2 1/2"	1'-8"	3'-1 1/2"

T = ; total movement along centerline of roadway at expansion joint.

DRAWN BY: KED	LEVEL	BY	DATE	REVISIONS	DESCRIPTION
CHECKED BY: JKC					
DATE: 12/2021					

PERU MORRIS  
 OTTAWA MENDOTA  
 ILLINOIS

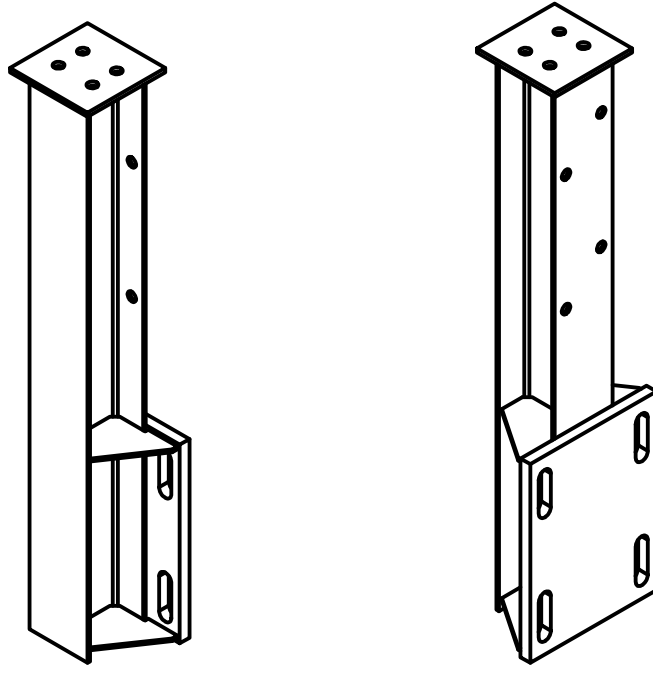
**DUPONT ROAD FAS 1273**  
**SECTION 19-00173-00-BR**  
**GRUNDY COUNTY**

**STEEL RAILING, TYPE IL-OH**

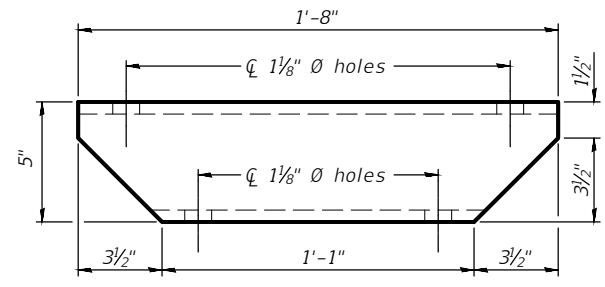
CONTRACT NO. 87756

CURRENT AS OF: 04/01/2022	
SCALE: AS NOTED	SHEET 21
FILE NO.: 111413.00 Y-	OF 43

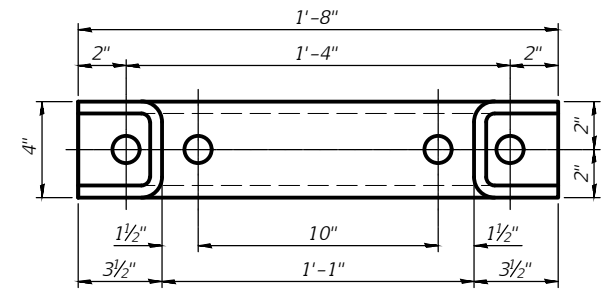
CHAMLIN & ASSOCIATES, INC. © 2021  
 Drawing Name: R:\USERS\111\11413-00 Grundy Co Hwy Dupont Dr Waupecora\CAD\022-RAILINGS-2.dwg Last Modified: Tuesday, March 29, 2022 7:34:43 AM Plotted On: Tuesday, March 29, 2022 9:43:05 AM by Kurt Decker



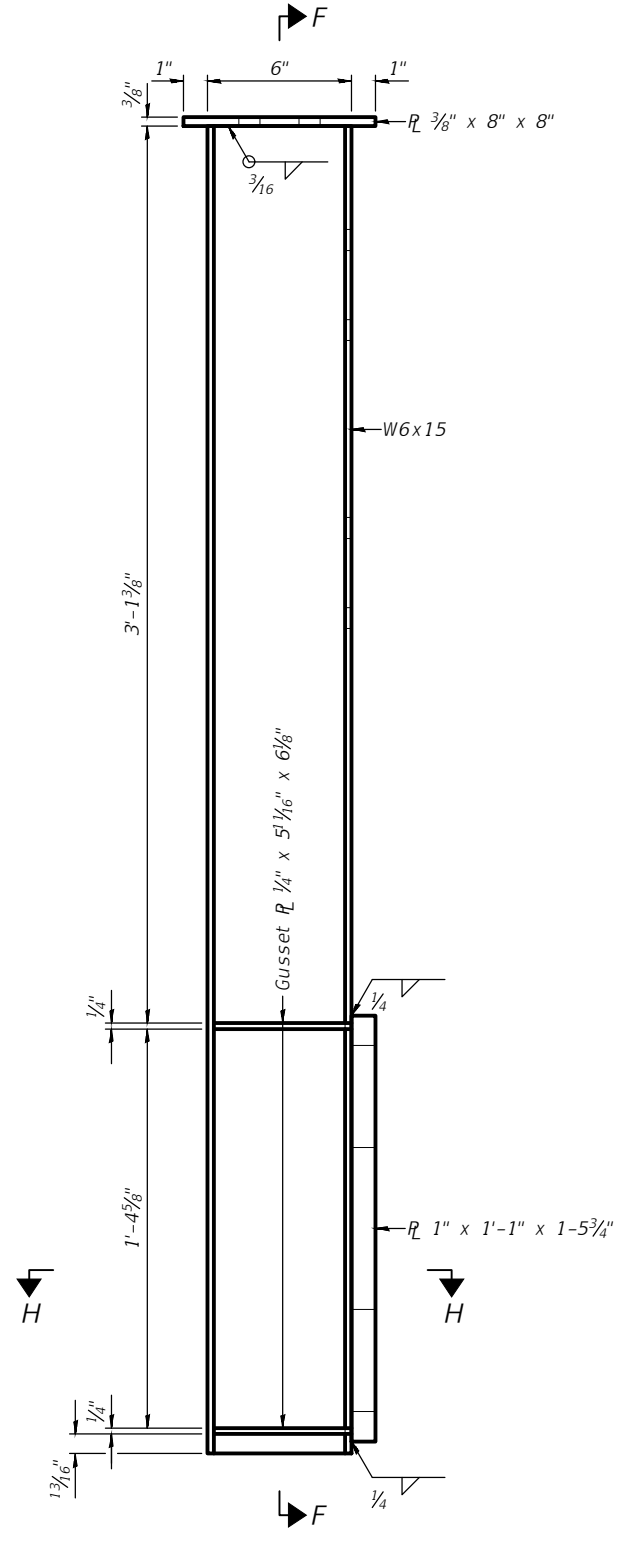
ISOMETRIC VIEWS POST ASSEMBLY



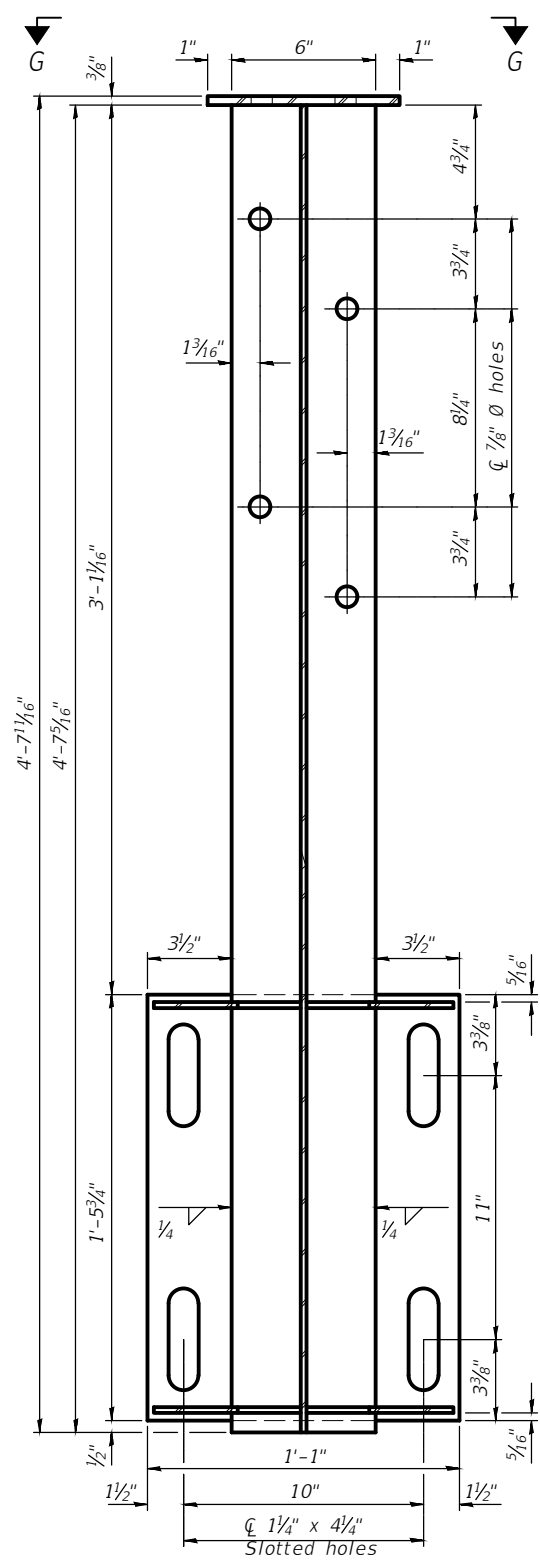
SPACER TUBE PLAN



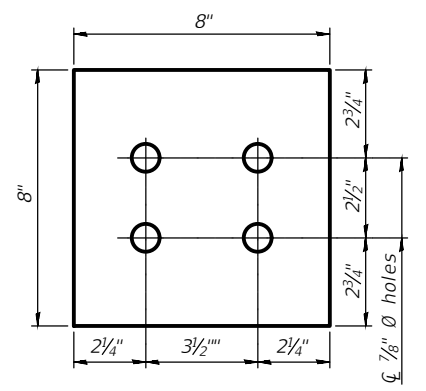
SPACER TUBE ELEVATION



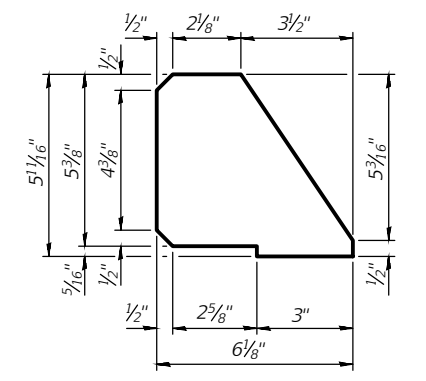
SIDE ELEVATION POST ASSEMBLY



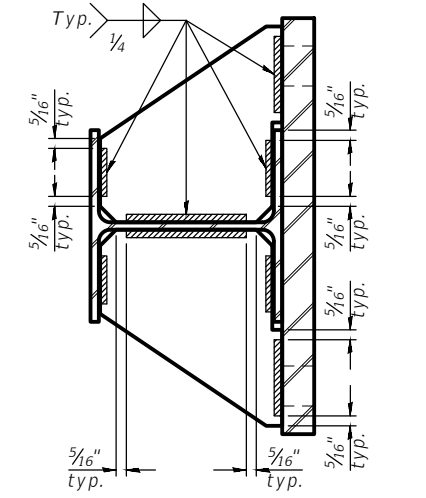
SECTION F-F



VIEW G-G  
(Showing top plate)



GUSSET PLATE



SECTION H-H  
(Showing gusset plate welds)

(Sheet 2 of 4)

CONTRACT NO. 87756

DRAWN BY: KED	REVISIONS			
CHECKED BY: JKC	LEVEL	BY	DATE	DESCRIPTION
DATE: 12/2021				

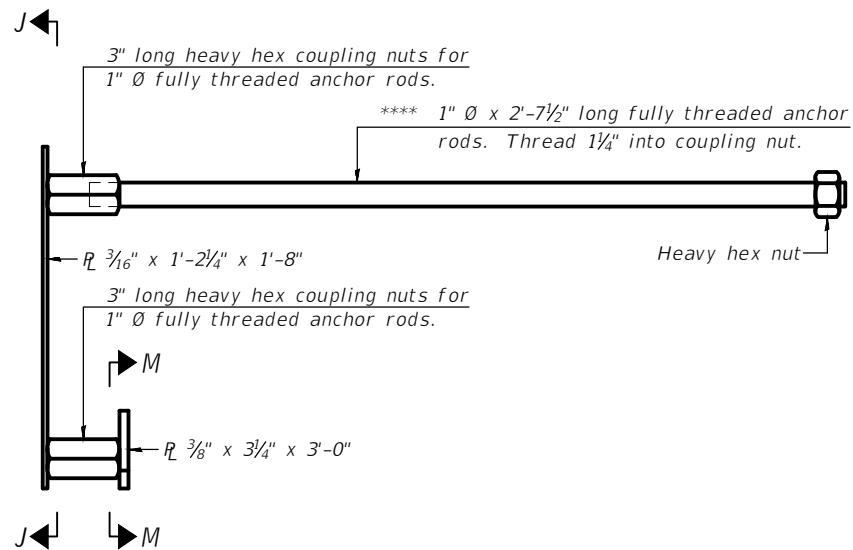
PERU MORRIS  
OTTAWA MENDOTA  
ILLINOIS

DUPONT ROAD FAS 1273  
SECTION 19-00173-00-BR  
GRUNDY COUNTY

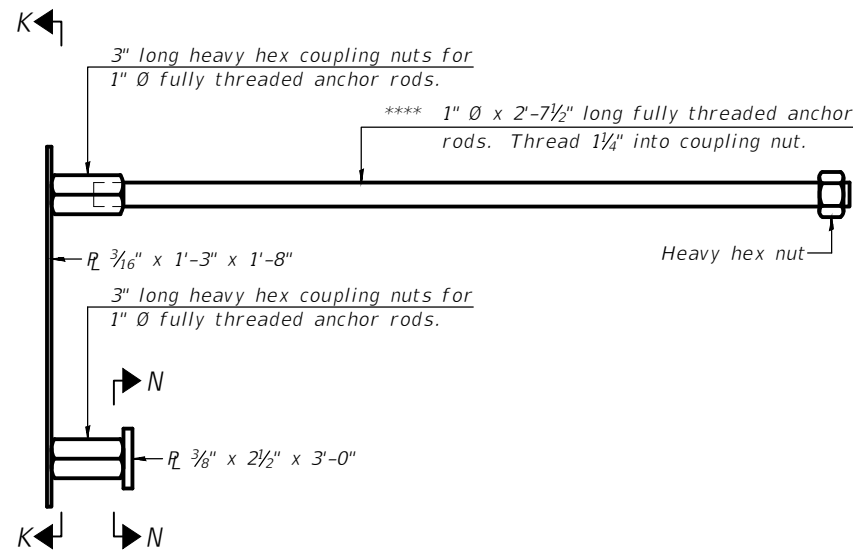
STEEL RAILING, TYPE IL-OH

CURRENT AS OF: 04/01/2022	
SCALE: AS NOTED	SHEET 22
FILE NO.: 111413.00 Y-	OF 43



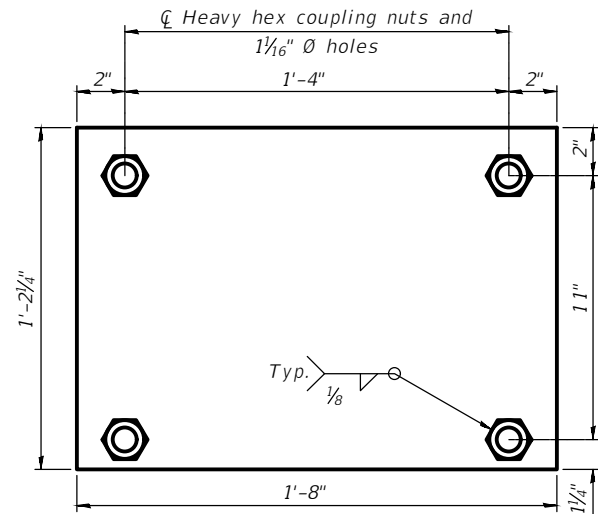


**ANCHORAGE ASSEMBLY**  
(for 17" deck beams)

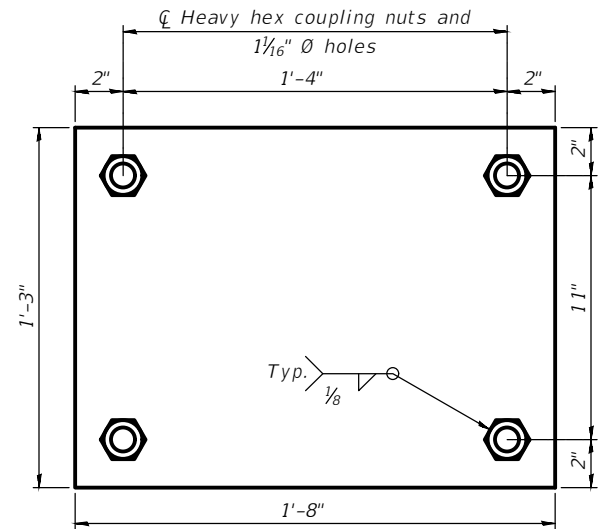


**ANCHORAGE ASSEMBLY**  
(for 21" thru 42" deck beams)

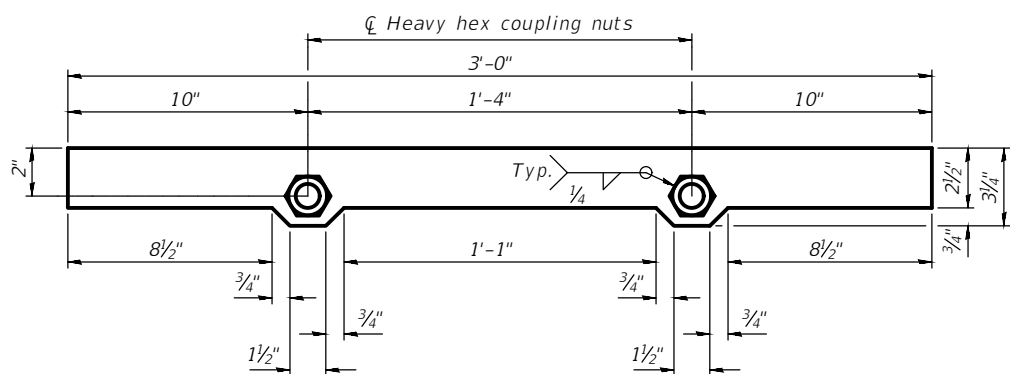
\*\*\*\* For skewed deck beams use 1" Ø x 1'-3" long fully threaded anchor rods at acute corners of beam ends.



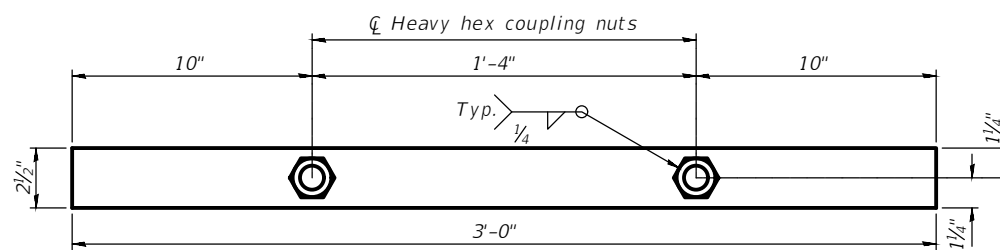
**SECTION J-J**



**SECTION K-K**

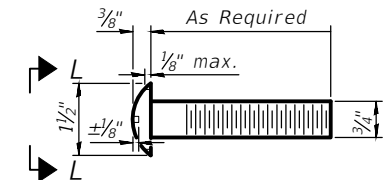


**SECTION M-M**

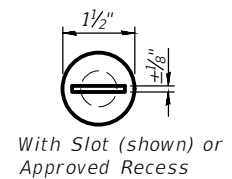


**SECTION N-N**

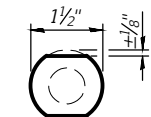
Notes:  
 All plates shall be AASHTO M270 grade 50.  
 All HSS tubing shall be ASTM A500 grade C.  
 All heavy hex nuts including heavy hex coupling nuts shall be according to ASTM A563 grade DH.  
 All fully threaded anchor rods shall be ASTM F1554 grade 105.  
 All round head bolts shall be ASTM A449.  
 All steel rail elements including shims shall be galvanized according to Article 509.05 of the Standard Specifications.  
 Rail splice inserts may be built out of 2 - 3/8" bent plates in lieu of the 4 plate rail splice inserts shown, provided the outside dimensions are matched.  
 One 3/16" thick shim per post and a sufficient number of shims of various thicknesses, built to the dimensions shown in the shim plate detail, shall be provided to adjust posts for plumbness and horizontal alignment. Cost included with Steel Railing, Type IL-OH.  
 The spacer tubes shall be fastened to the deck beams snug tight and given an additional 1/2 turn. The 1" diameter high strength bolts used to connect the spacer tubes to the post assemblies shall be tightened according to Article 505.04(f)(2) of the Standard Specifications.  
 All HSS tubing serving as railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.



**ROUND HEAD BOLT DETAIL**



With Slot (shown) or Approved Recess



Without Slot or Recess

**VIEW L-L**

**BILL OF MATERIAL**

Item	Unit	Quantity
Steel Railing, Type IL-OH	Foot	260

(Sheet 4 of 4)

CONTRACT NO. 87756

CHAMLIN & ASSOCIATES, INC. © 2021  
 Drawing Name: R:\USERS\111\11413-00 Grundy Co Hwy Dupont Ov Waupecan\024-RAILINGS-4.dwg Last Modified: Tuesday, March 29, 2022 7:36:48 AM Plotted On: Tuesday, March 29, 2022 9:41:42 AM by Kurt Decker

DRAWN BY: KED	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: JKC				
DATE: 12/2021				

**CA**  
 Chamlin & Associates  
 PERU MORRIS  
 OTTAWA MENDOTA  
 ILLINOIS

**DUPONT ROAD FAS 1273**  
**SECTION 19-00173-00-BR**  
**GRUNDY COUNTY**

**STEEL RAILING, TYPE IL-OH**

CURRENT AS OF: 04/01/2022	
SCALE: AS NOTED	SHEET 24
FILE NO.: 111413.00 Y-	OF 43

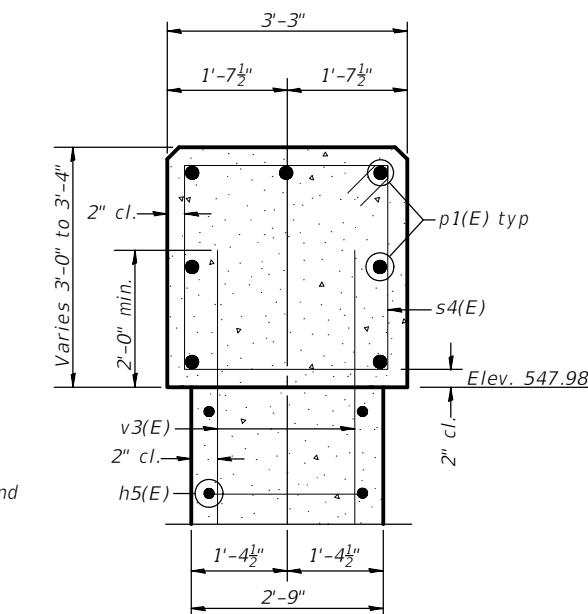
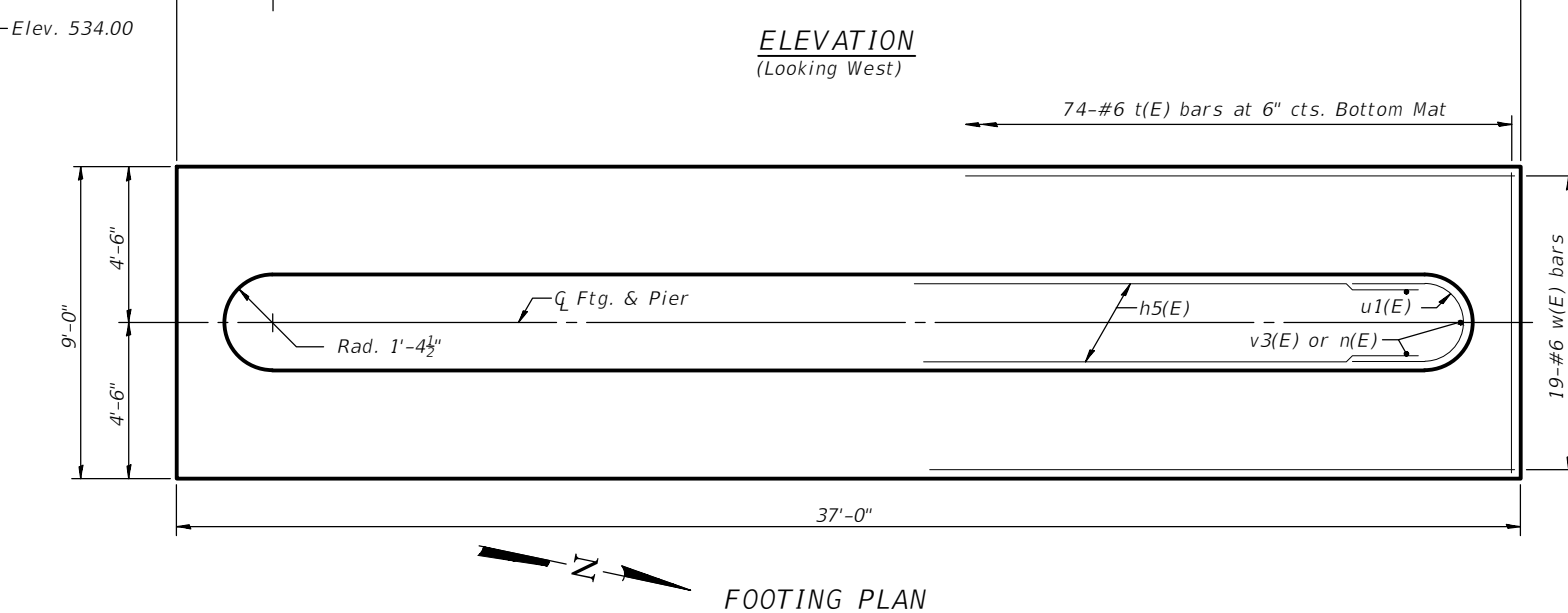
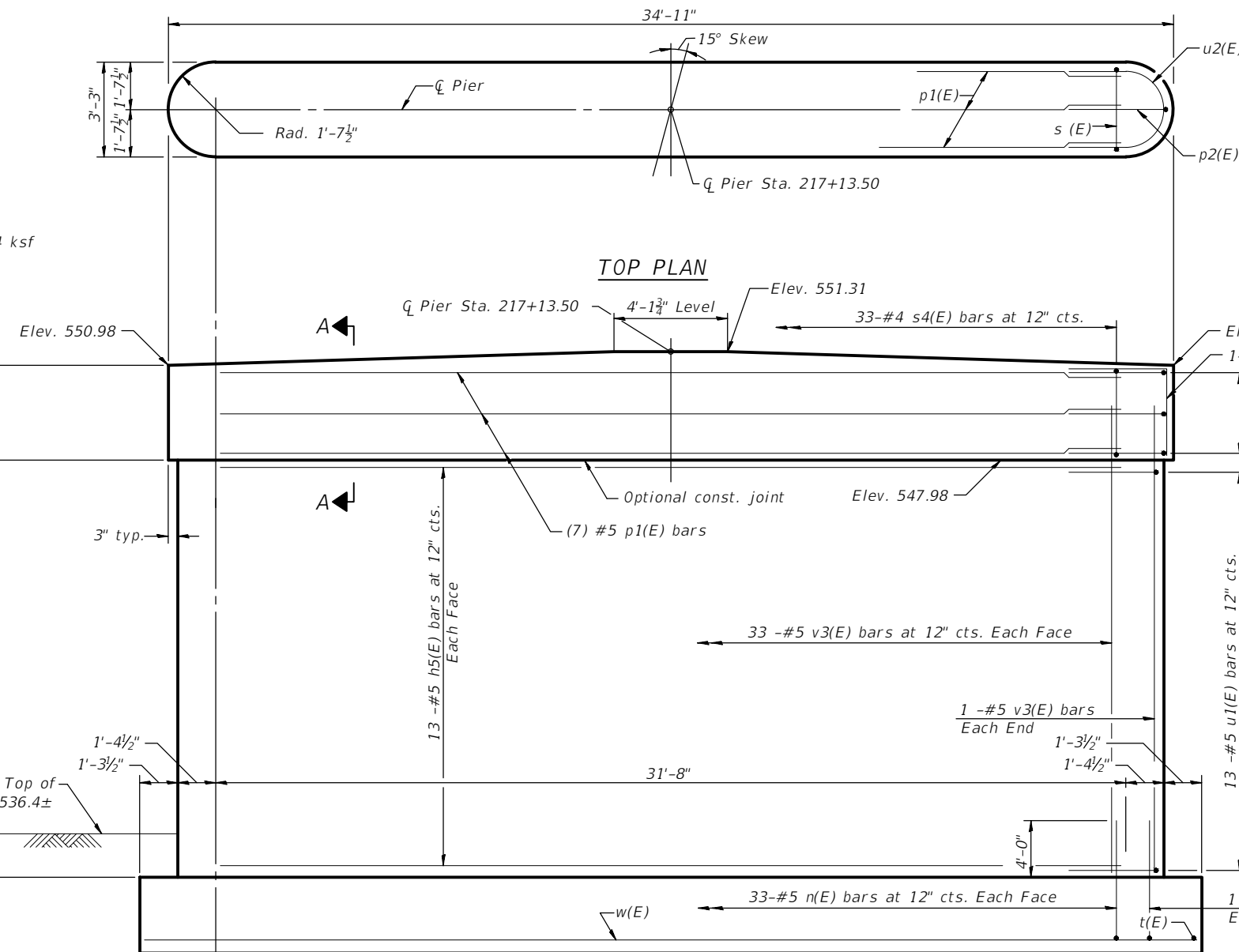
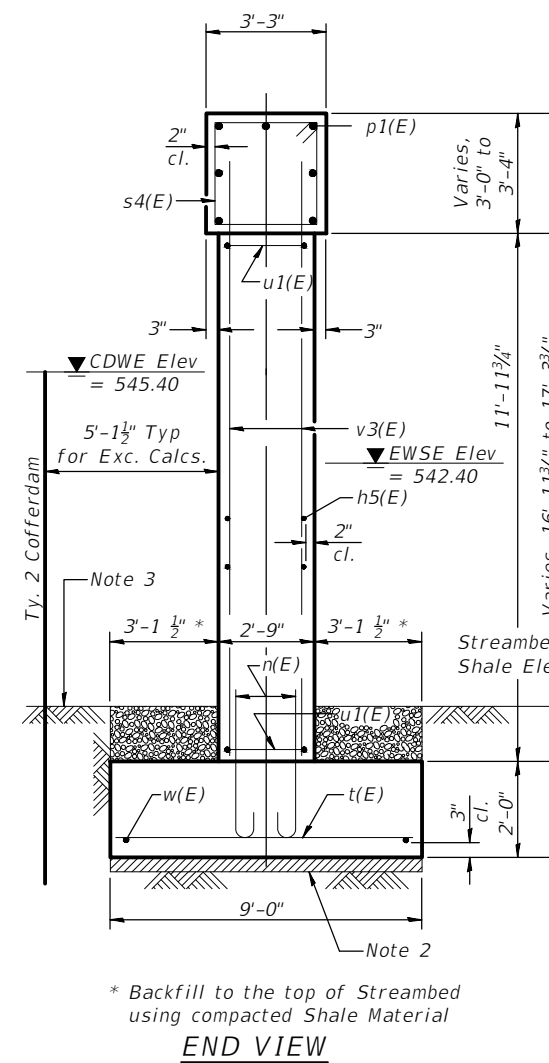






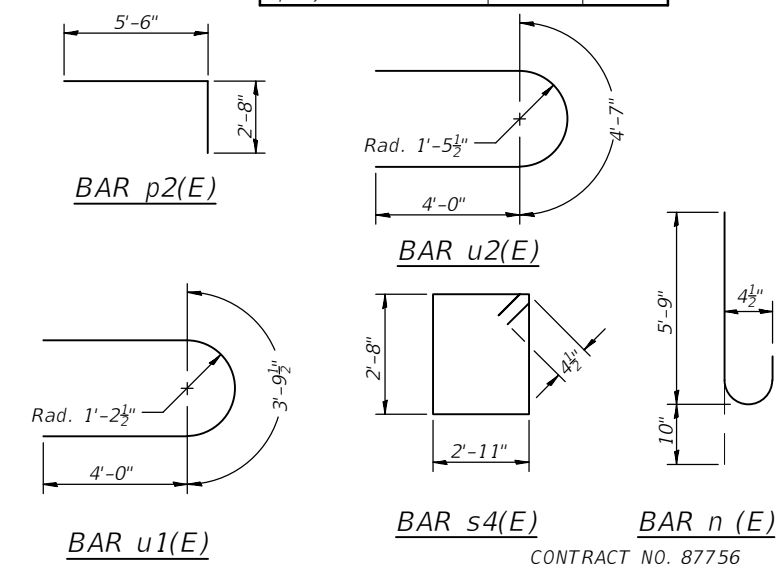
Notes:

1. Space reinforcement in cap to miss anchor bolts.
2. Footing excavation shall be undercut by 6" and immediately filled with seal coat concrete to prevent degradation of the exposed foundation material surface.
3. Excavation in shale shall be made with near-vertical sides at the plan dimensions to allow the sides of the footing to be cast against undisturbed surfaces.
4. Maximum Applied Service Bearing Pressure,  $Q_{max} = 4$  ksf



SECTION A-A  
BILL OF MATERIAL (1 PIER)

Bar	No.	Size	Length	Shape
h5(E)	26	#5	31'-8"	—
n(E)	68	#5	6'-7"	U
p1(E)	7	#5	31'-8"	—
p2(E)	2	#5	8'-2"	—
s4(E)	33	#4	11'-11"	□
t(E)	74	#6	8'-8"	—
u1(E)	26	#5	11'-10"	U
u2(E)	6	#5	12'-7"	U
v3(E)	68	#5	14'-0"	—
w(E)	19	#6	36'-8"	—
Cofferdam Excavation			Cu. Yd.	46.0
Ty 2 Cofferdam			Each	1
Concrete Structures			Cu. Yd.	79.0
Seal Coat Concrete			Cu. Yd.	6.5
Reinforcement Bars, Epoxy Coated			Pound	5239



CHAMLIN & ASSOCIATES, INC. © 2021  
 Drawing Name: R:\USERS\11111413-00 Grundy Co Hwy Dupont Dr Waupesa\CAD\027-PIER WEST.dwg  
 Last Modified: Tuesday, March 29, 2022 9:38:42 AM  
 Plotted On: Tuesday, March 29, 2022 10:52:05 AM  
 by Kurt Dieker

DRAWN BY: KED	LEVEL	BY	DATE	REVISIONS	DESCRIPTION
CHECKED BY: JKC					
DATE: 12/2021					


 PERU MORRIS  
 OTTAWA MENDOTA  
 ILLINOIS

**DUPONT ROAD FAS 1273**  
**SECTION 19-00173-00-BR**  
**GRUNDY COUNTY**

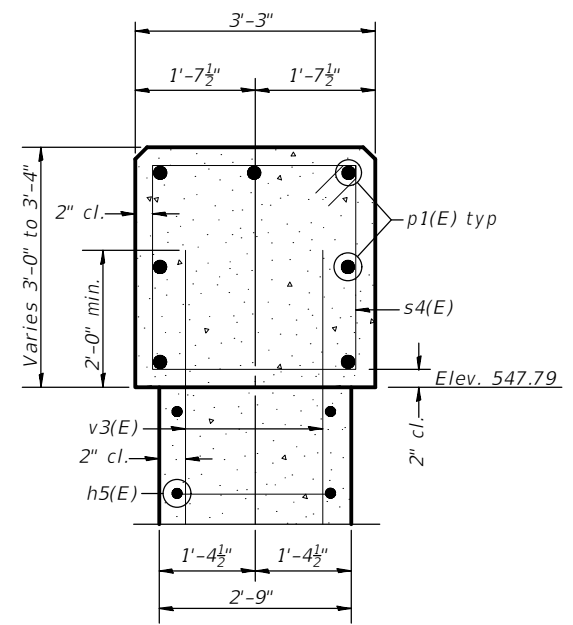
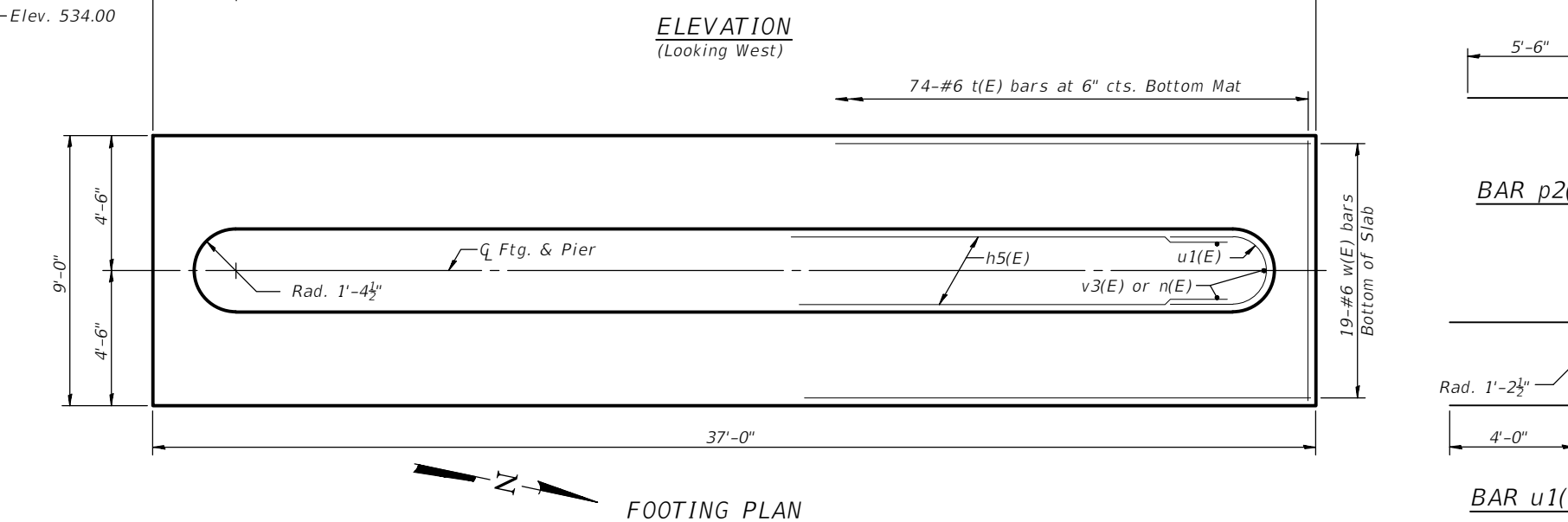
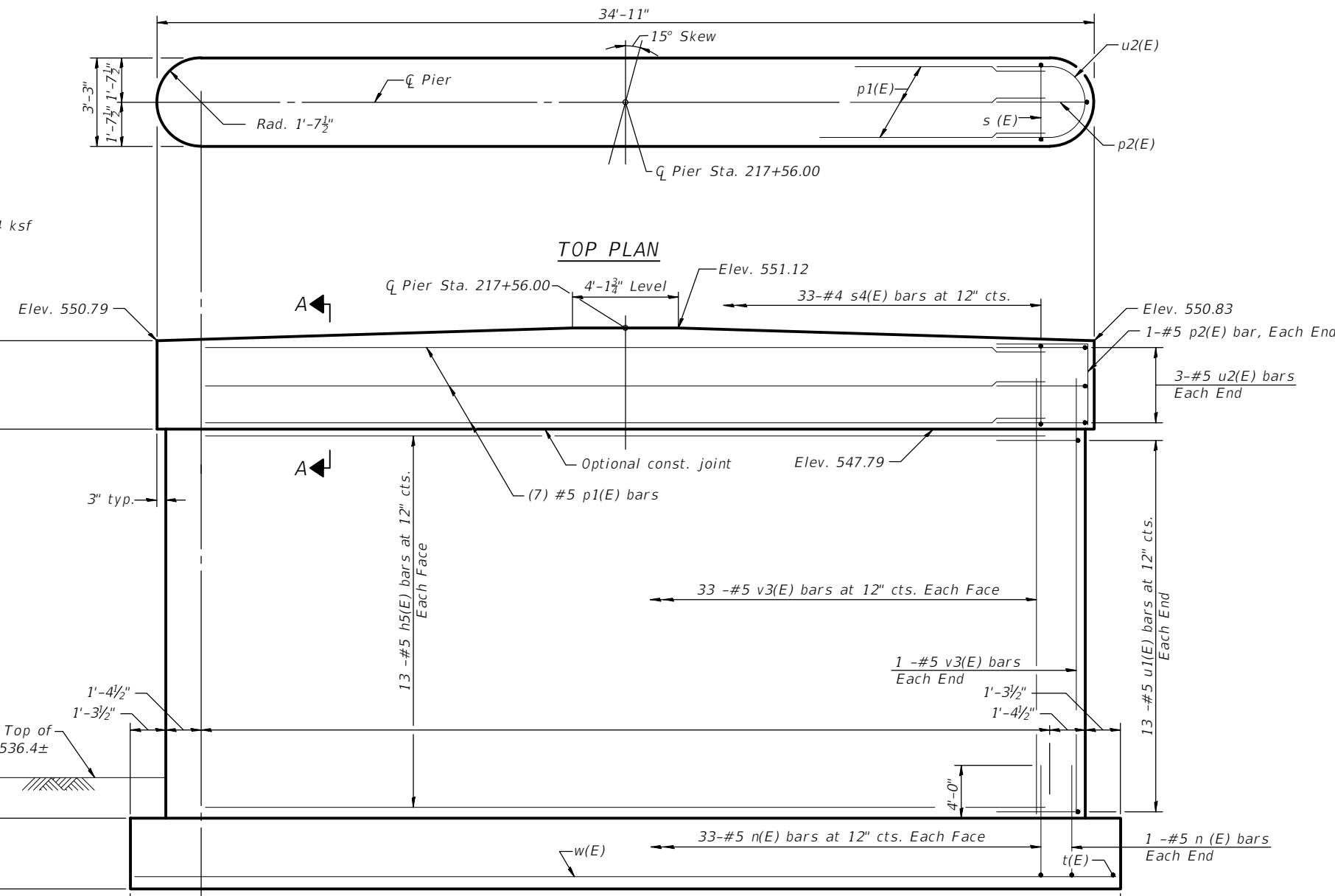
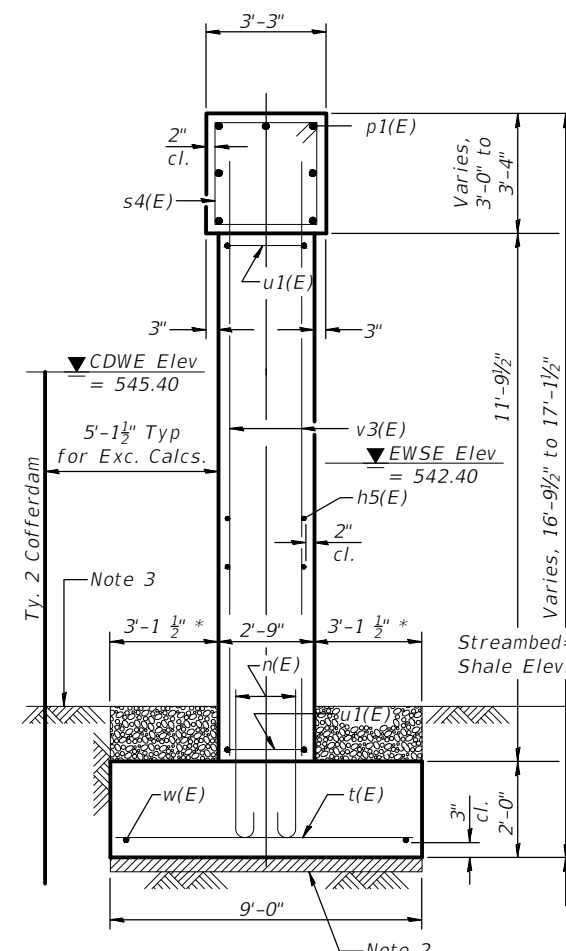
**PIER NO. 1 (WEST)**

CURRENT AS OF: 04/01/2022	SHEET 27
SCALE: AS NOTED	OF 43
FILE NO.: 111413.00 Y-	

CONTRACT NO. 87756

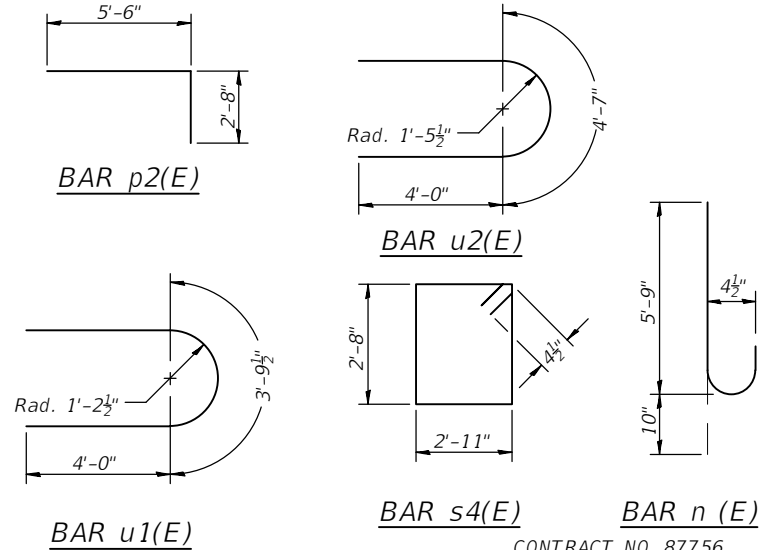
Notes:

1. Space reinforcement in cap to miss anchor bolts.
2. Footing excavation shall be undercut by 6" and immediately filled with seal coat concrete to prevent degradation of the exposed foundation material surface.
3. Excavation in shale shall be made with near-vertical sides at the plan dimensions to allow the sides of the footing to be cast against undisturbed surfaces.
4. Maximum Applied Service Bearing Pressure,  $Q_{max} = 4 \text{ ksf}$



SECTION A-A  
BILL OF MATERIAL (1 PIER)

Bar	No.	Size	Length	Shape
h5(E)	26	#5	31'-8"	—
n(E)	68	#5	6'-7"	⌋
p1(E)	7	#5	31'-8"	—
p2(E)	2	#5	8'-2"	└
s4(E)	33	#4	11'-11"	□
t(E)	74	#6	8'-8"	—
u1(E)	26	#5	11'-10"	⌋
u2(E)	6	#5	12'-7"	⌋
v3(E)	68	#5	14'-0"	—
w(E)	19	#6	36'-8"	—
Cofferdam Excavation			Cu. Yd.	78.0
Ty 2 Cofferdam			Each	1
Concrete Structures			Cu. Yd.	79.0
Seal Coat Concrete			Cu. Yd.	6.5
Reinforcement Bars, Epoxy Coated			Pound	5239



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 Drawing Name: R:\USERS\11111413-00 Grundy Co Hwy Dupont Ov Waupesa\CAD\028-PIER EAST.dwg  
 Last Modified: Tuesday, March 29, 2022 9:38:19 AM  
 Plotted On: Tuesday, March 29, 2022 10:54:01 AM by Kurt Decker

LEVEL	BY	DATE	REVISIONS	DESCRIPTION

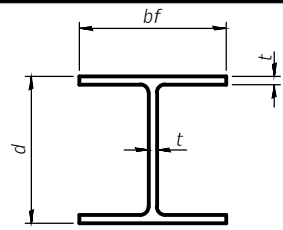

 PERU MORRIS  
 OTTAWA MENDOTA  
 ILLINOIS

**DUPONT ROAD FAS 1273**  
**SECTION 19-00173-00-BR**  
**GRUNDY COUNTY**

**PIER NO. 2 (EAST)**

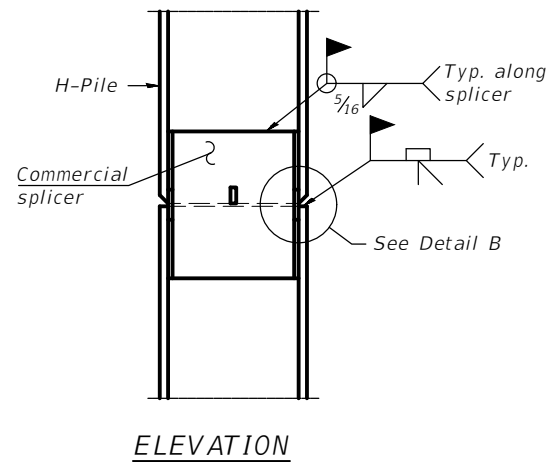
CURRENT AS OF: 04/01/2022	SHEET 28
SCALE: AS NOTED	OF 43
FILE NO.: 111413.00 Y-	

CONTRACT NO. 87756

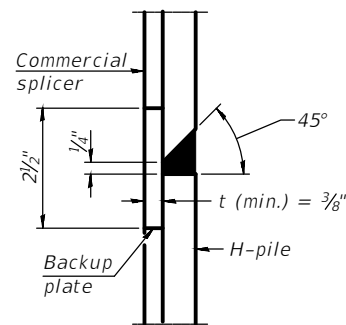


STEEL PILE TABLE

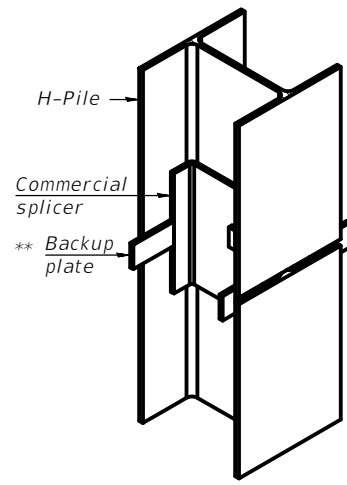
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 5/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 7/8"	7/16"	18"



ELEVATION

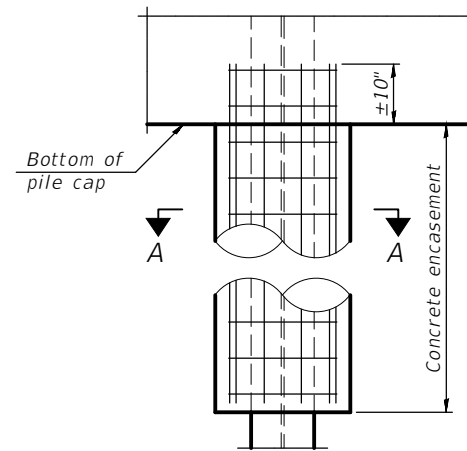


DETAIL "B"

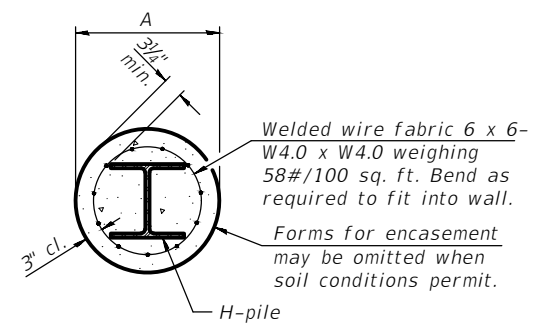


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE

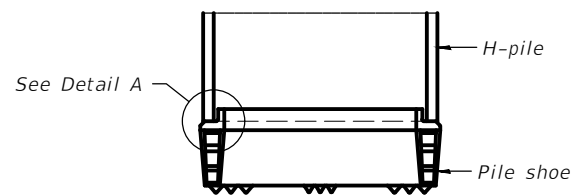


ELEVATION

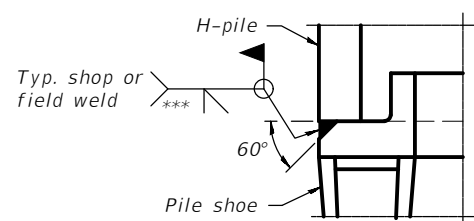


SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASUREMENT (when specified)



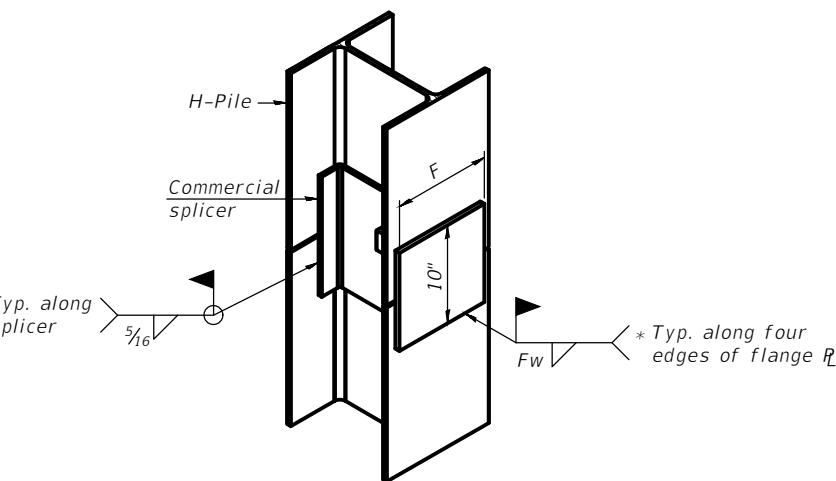
ELEVATION



DETAIL A

SHOE ATTACHMENT

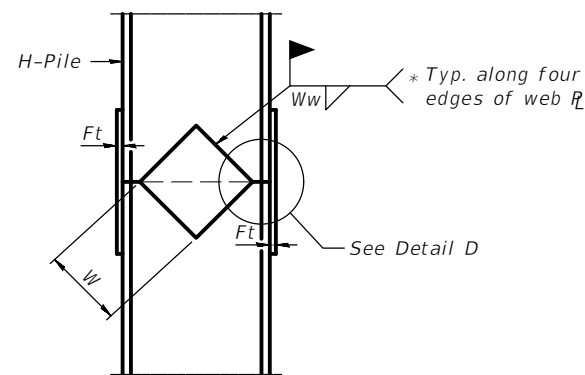
Note:  
The steel H-piles shall be according to AASHTO M270 Grade 50.



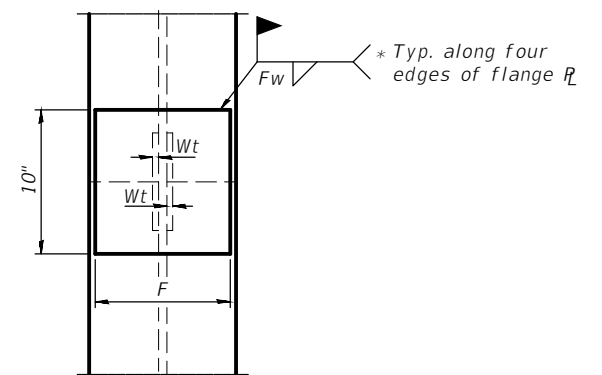
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

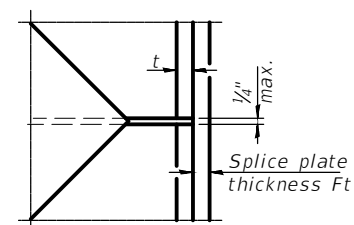
- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).



ELEVATION



END VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

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Drawing Name: R:\USERS\11111413-00 Grundy Co Hwy Dupont Ov Waupecora\CAD\029-HP PILE DTLS.dwg Last Modified: Tuesday, March 29, 2022 8:01:04 AM Plotted On: Tuesday, March 29, 2022 9:37:50 AM by Kurt Decker

DRAWN BY: KED	REVISIONS			
	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: JKC				
DATE: 12/2021				

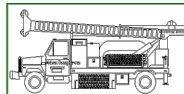
PERU MORRIS  
OTTAWA MENDOTA  
ILLINOIS

DUPONT ROAD FAS 1273  
SECTION 19-00173-00-BR  
GRUNDY COUNTY

HP PILE DETAILS  
(ABUTMENTS ONLY)

CURRENT AS OF: 04/01/2022	
SCALE: AS NOTED	SHEET 29
FILE NO.: 111413.00 Y-	OF 43

CONTRACT NO. 87756



**Midwest Testing Services, Inc.**  
3705 Progress Blvd.  
Peru, IL 61354

**BORING LOG**

Sheet 1 of 2

Phone: 815-223-6696  
Fax: 815-223-6659  
e-mail: mts37@comcast.net

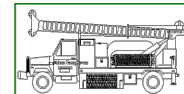
Client: Chamlin & Associates  
Project Name: SN: 032-3130  
Project Site: Dupont Rd. Br. over Waupeacan Creek  
Grundy Co., IL

Boring No. B-1  
Surface Elev. 552.90  
Auger Depth 41.00 Rotary Depth NA  
Start Date 12/02/21 Finish Date 12/02/21

Location: West Abutment Station: 216+72 6' LT

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY		REMARKS
				Sample No.	Sample Type	Qu (TSF)/KSF*	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	Randy Safranski Diedrich D-120	
552.90												
551.90	Asphalt over Aggregate		1									
550.90	Medium Stiff Black/Gray Silty Clay Fill		2									
549.90			3	1	SS	1.0	6	B	20			
548.90			4									
547.90			5									
546.90	Stiff Black/Gray Silty Clay Fill with Cobbles		6	2	SS	1.2	7	B	19			
545.90			7									
544.90			8	3	SS	1.5	9	B	17			
543.90			9									
542.90	Stiff Brown/Gray Silty Clay		10	4	SS	1.4	7	B	17			
541.90			11									
540.90			12									
539.90			13	5	SS	1.5	10	B	17			
538.90			14									
537.90			15	6	SS	---	100	---	10		Water	
536.90	Very Hard Gray Very Sandy Shale		16									
535.90			17									
534.90			18	7	SS	19.5*	203*	---	11			
533.90			19									
532.90			20	8	SS	19.5*	203*	---	11			

Groundwater Data: Static water level after auger removal; Elevation 537.9  
Comments: \*Modified SPT as per IDOT



**Midwest Testing Services, Inc.**  
3705 Progress Blvd.  
Peru, IL 61354

**BORING LOG**

Sheet 2 of 2

Phone: 815-223-6696  
Fax: 815-223-6659  
e-mail: mts37@comcast.net

Client: Chamlin & Associates  
Project Name: SN: 032-3130  
Project Site: Dupont Rd. Br. over Waupeacan Creek  
Grundy Co., IL

Boring No. B-1  
Surface Elev. 552.90  
Auger Depth 41.00 Rotary Depth NA  
Start Date 12/02/21 Finish Date 12/02/21

Location: West Abutment Station: 216+72 6' LT

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY		REMARKS
				Sample No.	Sample Type	Qu (TSF)/KSF*	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	Randy Safranski Diedrich D-120	
531.90												
530.90			22									
529.90			23	9	SS	19.5*	203*	---	12			
528.90			24									
527.90			25	10	SS	19.5*	203*	---	12			
526.90	Very Hard Gray Very Sandy Shale		26									
525.90			27									
524.90			28	11	SS	20.5*	213*	---	12			
523.90			29									
522.90			30	12	SS	20.5*	213*	---	12			
521.90			31									
520.90			32									
519.90			33	13	SS	41.0*	427*	---	12			
518.90			34									
517.90			35	14	SS	81.9*	853*	---	12			
516.90			36									
515.90			37									
514.90			38	15	SS	81.9*	853*	---	10			
513.90			39									
512.90			40									
511.90			41	16	SS	81.9*	853*	---	10		Auger Refusal Boring Terminated	

Groundwater Data: Static water level after auger removal; Elevation 537.9  
Comments: \*Modified SPT as per IDOT

CHAMLIN & ASSOCIATES, INC. © 2021  
Drawing Name: R:\USERS\111\111413-00 Grundy Co Hwy Dupont Ov Waupeacan\CAD\030-BORINGS-1.dwg Last Modified: Friday, February 25, 2022 11:47:02 AM Plotted On: Tuesday, March 29, 2022 9:36:43 AM by Kurt Decker

CONTRACT NO. 87756

DRAWN BY: KED	LEVEL	BY	DATE	REVISIONS	DESCRIPTION
CHECKED BY: CHECKED					
DATE: DATE					

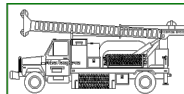


PERU MORRIS  
OTTAWA MENDOTA  
ILLINOIS

**DUPONT ROAD FAS 1273  
SECTION 19-00173-00-BR  
GRUNDY COUNTY**

**SOIL BORINGS**

CURRENT AS OF: 04/01/2022	SHEET 30
SCALE: AS NOTED	OF 43
FILE NO.: 111413.00 Y-	



**Midwest Testing Services, Inc.**  
3705 Progress Blvd.  
Peru, IL 61354

**BORING LOG**

Sheet 1 of 2

Phone: 815-223-6696  
Fax: 815-223-6659  
e-mail: mts37@comcast.net

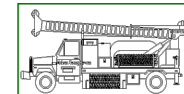
Client: Chamlin & Associates  
Project Name: SN: 032-3130  
Project Site: Dupont Rd. Br. over Waupeacan Creek  
Grundy Co., IL

Boring No. B-2  
Surface Elev. 552.60  
Auger Depth 41.00 Rotary Depth NA  
Start Date 12/02/21 Finish Date 12/02/21

Location: East Abutment Station: 218+01 7' RT

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)/KSF*	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	
552.60											
551.60	Asphalt over Aggregate		1								
550.60			2								
549.60	Medium Stiff Black/Gray Silty Clay Fill		3	1	SS	1.0	6	B	20		
548.60			4								
547.60			5								
546.60			6	2	SS	1.2	10	B	19		
545.60			7								
544.60	Medium Stiff to Stiff Black/Gray Silty Clay Fill with Cobbles		8	3	SS	1.0	7	B	18		
543.60			9								
542.60			10	4	SS	1.0	6	B	18		
541.60			11								
540.60	Stiff Brown/Gray Silty Clay with Cobbles		12								
539.60			13	5	SS	1.5	13	B	17		
538.60			14								
537.60			15	6	SS	19.5*	203* 12"	---	12		Water
536.60			16								
535.60			17								
534.60	Very Hard Gray Very Sandy Shale		18	7	SS	19.5*	203* 12"	---	12		
533.60			19								
532.60			20	8	SS	19.5*	203* 12"	---	11		

Groundwater Data: Static water level after auger removal; Elevation 537.9  
Comments: \*Modified SPT as per IDOT



**Midwest Testing Services, Inc.**  
3705 Progress Blvd.  
Peru, IL 61354

**BORING LOG**

Sheet 2 of 2

Phone: 815-223-6696  
Fax: 815-223-6659  
e-mail: mts37@comcast.net

Client: Chamlin & Associates  
Project Name: SN: 032-3130  
Project Site: Dupont Rd. Br. over Waupeacan Creek  
Grundy Co., IL

Boring No. B-2  
Surface Elev. 552.60  
Auger Depth 41.00 Rotary Depth NA  
Start Date 12/02/21 Finish Date 12/02/21

Location: East Abutment Station: 218+01 7' RT

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)/KSF*	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	
531.60											
530.60			22								
529.60			23	9	SS	19.5*	203* 12"	---	10		
528.60			24								
527.60			25	10	SS	19.5*	203* 12"	---	10		
526.60			26								
525.60	Very Hard Gray Very Sandy Shale		27								
524.60			28	11	SS	20.5*	213* 12"	---	10		
523.60			29								
522.60			30	12	SS	41.0*	427* 12"	---	10		
521.60			31								
520.60			32								
519.60			33	13	SS	41.0*	427* 12"	---	10		
518.60			34								
517.60			35	14	SS	81.9*	853* 12"	---	10		
516.60			36								
515.60			37								
514.60			38	15	SS	81.9*	853* 12"	---	10		
513.60			39								
512.60			40								
511.60			41	16	SS	81.9*	853* 12"	---	10		Auger Refusal Boring Terminated

Groundwater Data: Static water level after auger removal; Elevation 537.9  
Comments: \*Modified SPT as per IDOT

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Drawing Name: R:\USERS\111\11413-00 Grundy Co Hwy Dupont Ov Waupeacan\CAD\031-BORINGS-2.dwg Last Modified: Friday, February 25, 2022 11:50:49 AM Plotted On: Tuesday, March 29, 2022 9:36:09 AM by Kurt Decker

CONTRACT NO. 87756

LEVEL	BY	DATE	REVISIONS	
			DESCRIPTION	



PERU MORRIS  
OTTAWA MENDOTA  
ILLINOIS

**DUPONT ROAD FAS 1273  
SECTION 19-00173-00-BR  
GRUNDY COUNTY**

**SOIL BORINGS**

CURRENT AS OF: 04/01/2022	SHEET 31
SCALE: AS NOTED	OF 43
FILE NO.: 111413.00 Y-	

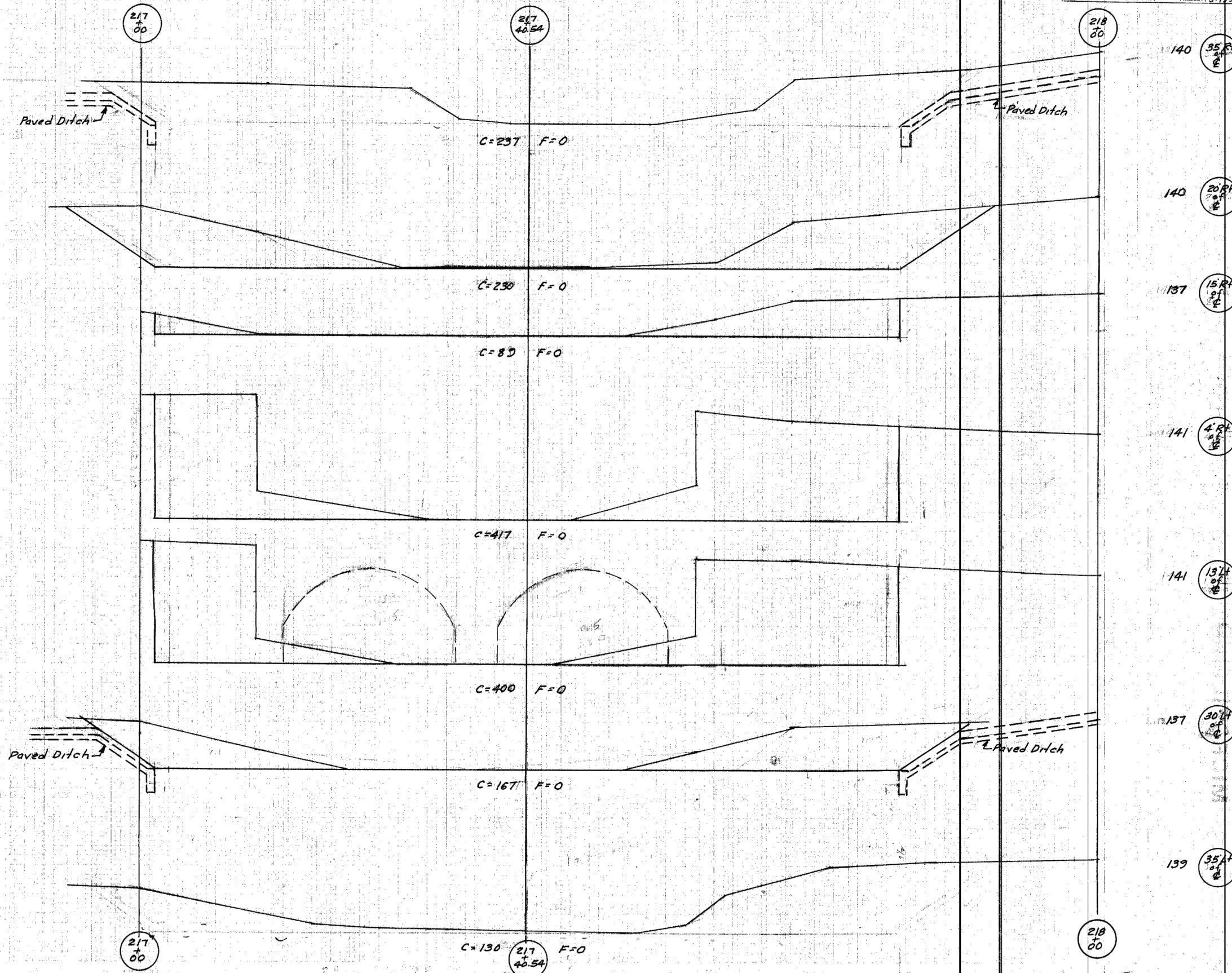




Channel Excavation  
Rt. & Lt. Sta. 217+40.54

ROUTE NO.	SECTION	QUANTITY	TOTAL SHEETS	SHEET NO.
1273	38B	Grundy	10	3

FED. ROAD DIST. NO. 7 ILLINOIS PROJECT 5-793 (1)



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Drawing Name: R:\USERS\11111413-00 Grundy Co Hwy Dupont Dr Waupesaan\CAD\033-EX PLAN 2.dwg Last Modified: Friday, February 25, 2022 11:50:14 AM Plotted On: Tuesday, March 29, 2022 8:35:57 AM by Kurt Decker

REVISIONS	DESCRIPTION	DATE	BY	LEVEL

**CA**  
Chamlin & Associates

PERU MORRIS  
OTTAWA MENDOTA  
ILLINOIS

**DUPONT ROAD FAS 1273  
SECTION 19-00173-00-BR  
GRUNDY COUNTY**

**EXISTING PLANS**

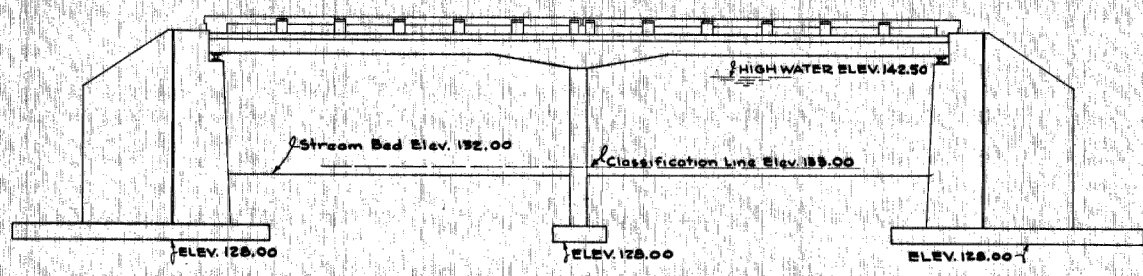
CURRENT AS OF: 04/01/2022	SHEET 33
SCALE: AS NOTED	OF 43
FILE NO.: 111413.00 Y-	

CONTRACT NO. 87756

Bench Mark Square cut in top of Bridge Rail left of Station 217+12 Elev. 146.20  
 Existing Structure is a double masonry arch bridge having two spans of 17.5'  
 with masonry substructure.  
 The Contractor shall remove the above described structure.

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
 DIVISION OF HIGHWAYS

FEDERAL AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. RT. 1273	38-B	GRUNDY	10	4
P.D. ROAD DIST. NO. 7		ILLINOIS PROJECT	S-793 (1)	



ELEVATION  
 NO. SCALE

**General Notes**

Class 'X' Concrete shall be used thruout except as noted.

Handrail Concrete shall be used in handrails.

Concrete floor slab shall be poured in one continuous operation.

Concrete floor slab shall be finished in accordance with Art. 51.18 a. of the Standard Specifications

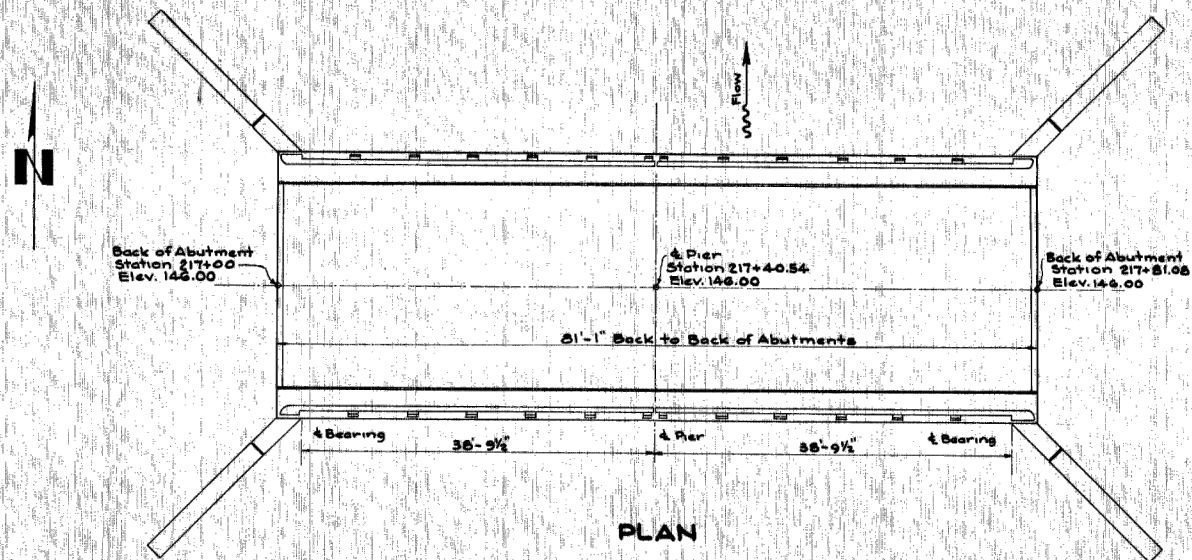
Curbs and reinforced handrails shall not be placed until after superstructure has been completed and the falsework removed.

Premoulded Joint Filler shall conform to Art. 129.4 of the Standard Specifications

All Rollers, Bearing Plates and Anchor Bolts shall be furnished, painted and set in accordance with Art. 51.14 of the Standard Specifications, and are included for payment as Furnishing and Erecting Structural Steel.

The following surfaces shall be waterproofed: the back of abutments, parapet walls, and wing walls from top of walls to top of footing. Waterproofing shall be in accordance with Art. 51.20 of the Standard Specifications. The cost of waterproofing shall be included in the contract unit price per cubic yard for Class 'X' Concrete.

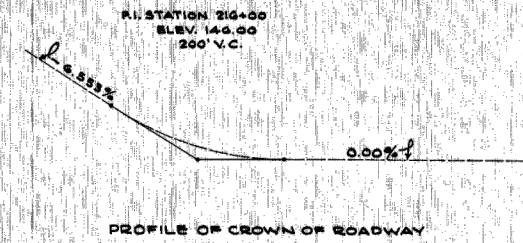
Structural Steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. All paint shall be furnished by the Contractor.



PLAN

SUMMARY OF QUANTITIES

ITEM	SUBSTR.	SUPERSTR.	TOTAL	
Removal of Existing Structure	Ea.		One	
Class 'A' Excav. for Structures	Cu.Yds.		461	
Class 'B' Excav. for Structures	Cu.Yds.		377	
Rock Excav. for Structures	Cu.Yds.		10	
Channel Excavation	Cu.Yds.		725	
Class 'X' Concrete	Cu.Yds.	215.2	129.5	344.7
Reinforcement Bars	Lbs.	16700	32900	49600
Furn. & Erect. Structural Steel	Lbs.		3390	3390
Handrail Concrete	Cu.Yds.		4.1	4.1
Name Plate	Ea.		One	



**WATERWAY DATA**

Drainage Area 30,720 Acres  
 Character Level & Cultivated  
 Opening Required (C=0.55 to 1 bot) 766 Sq. Ft.  
 Opening Provided 775 Sq. Ft.

**STRESSES**

$f_s = 20,000\%$  Reinforcing Steel  
 $f_c = 1,200\%$  Superstructure  
 $f_c = 800\%$  Substructure  
 $n = 10$   
 H-15 S-12 LOADING

STATION 217+40.54  
 F.A.S. RT. 1273 SEC. 38-B  
 F.A. PROJECT S-793 (1)  
 WAUPONSEE TOWNSHIP  
 GRUNDY COUNTY

CHAMLIN & ASSOCIATES, INC. © 2021  
 Drawing Name: R:\USERS\11111413-00 Grundy Co Hwy Dupont Ov Wauponcee\04\034-EX PLAN 3.dwg Last Modified: Friday, February 25, 2022 11:51:41 AM Plotted On: Tuesday, March 29, 2022 9:27:31 AM by Kurt Decker

38 B

CONTRACT NO. 87756

REVISIONS	LEVEL	BY	DATE	DESCRIPTION

PERU MORRIS  
 OTTAWA MENDOTA  
 ILLINOIS

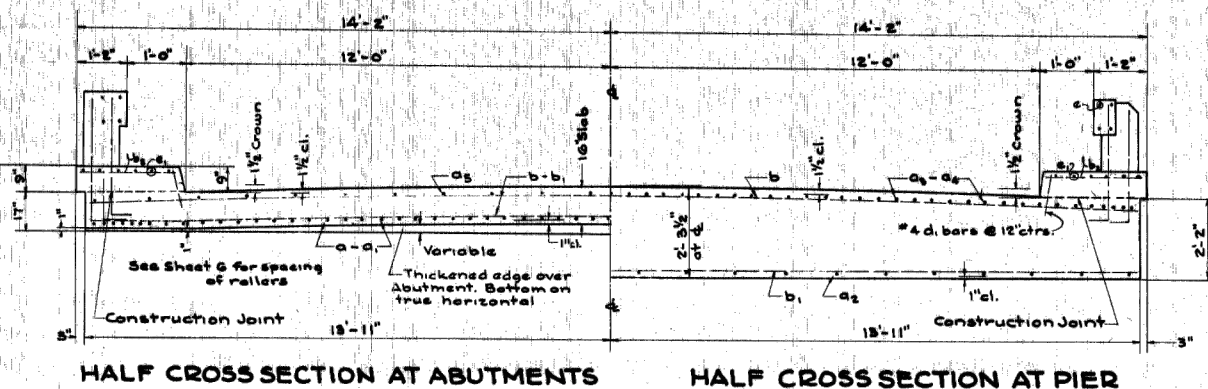
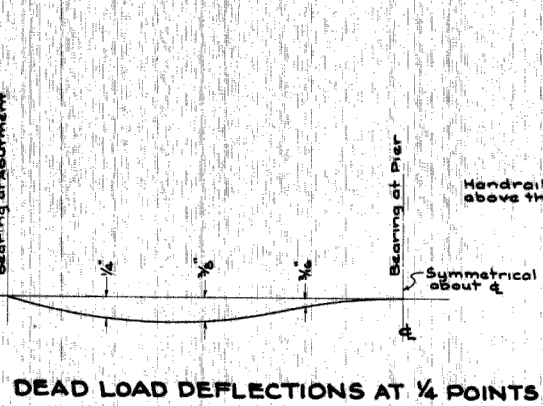
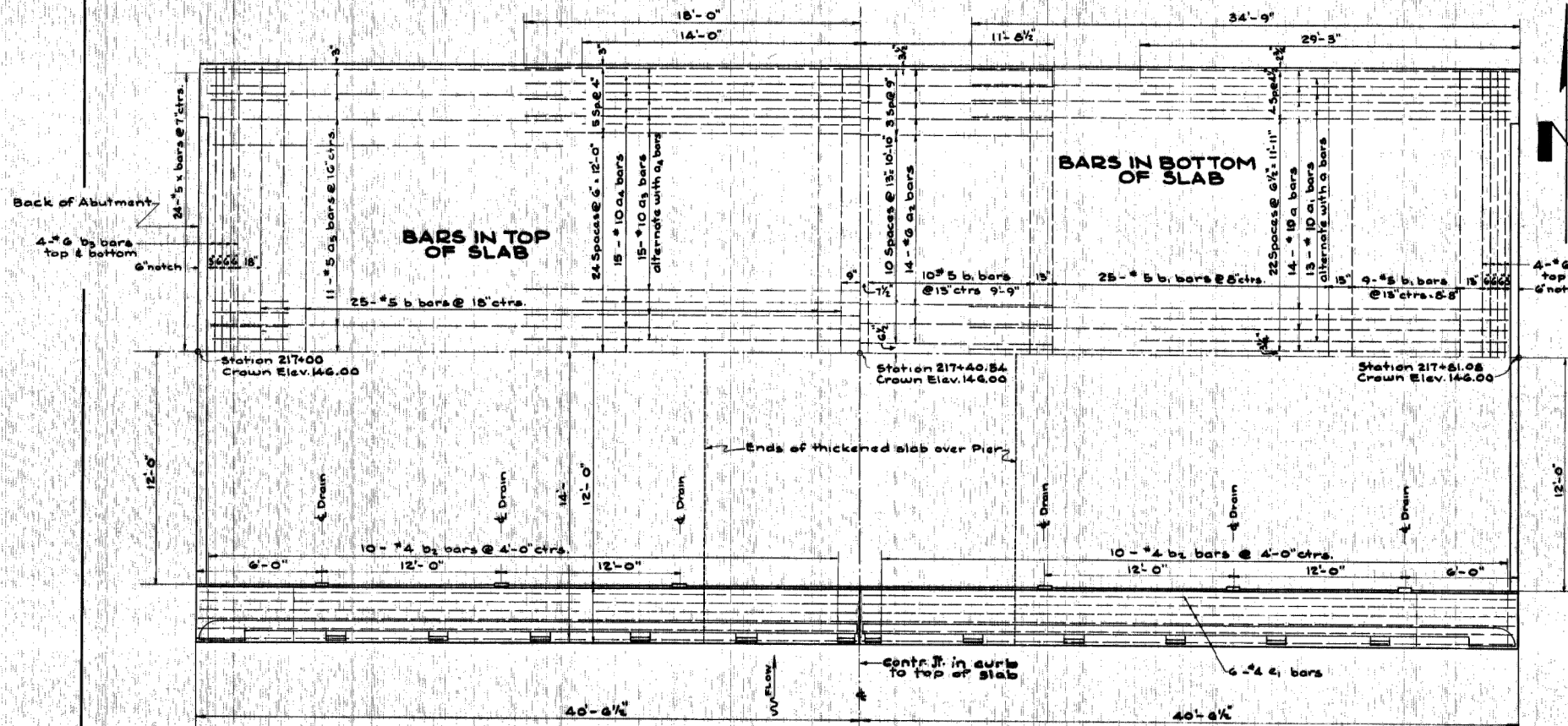
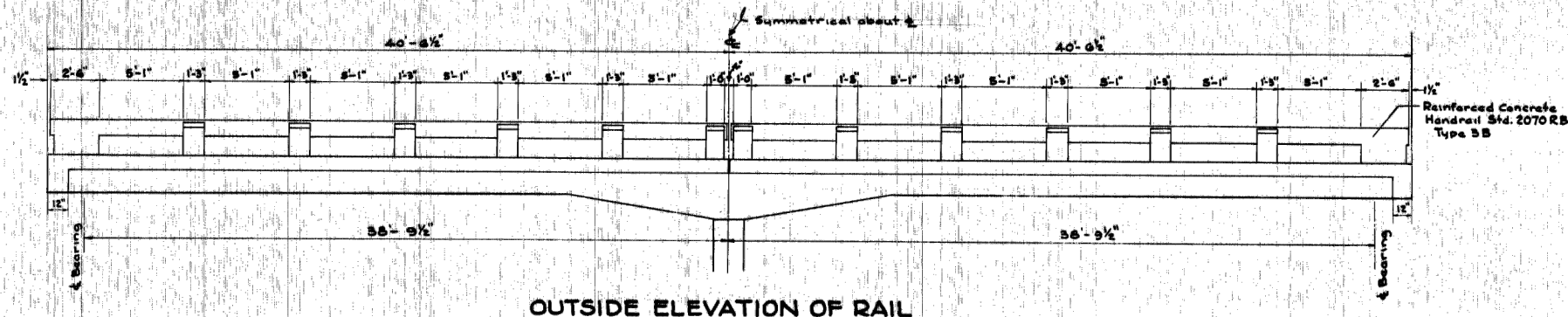
DUPONT ROAD FAS 1273  
 SECTION 19-00173-00-BR  
 GRUNDY COUNTY

EXISTING PLANS

CURRENT AS OF: 04/01/2022	SHEET 34
SCALE: AS NOTED	OF 43
FILE NO.: 111413.00 Y-	

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

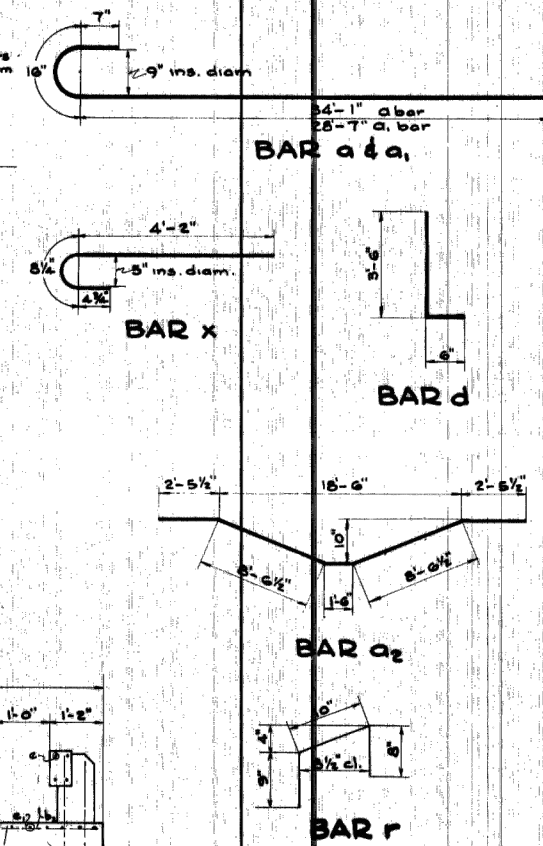
FEDERAL ROUTE	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. RT. 1273	38-B	GRUNDY	10	5
PROJ. SHEET No. 1	PROJECT: S-793 (1)			



**BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE
a	54	*10	36'-0"	C
a <sub>1</sub>	54	*10	30'-6"	C
a <sub>2</sub>	28	*6	23'-6"	C
a <sub>3</sub>	30	*10	36'-0"	C
a <sub>4</sub>	29	*10	28'-0"	C
a <sub>5</sub>	42	*5	24'-0"	C
b	50	*5	27'-6"	C
b <sub>1</sub>	88	*5	27'-6"	C
b <sub>2</sub>	40	*4	1'-9"	C
b <sub>3</sub>	16	*6	27'-6"	C
d	116	*5	4'-0"	L
d <sub>1</sub>	162	*4	1'-6"	C
e	32	*5	20'-9"	C
e <sub>1</sub>	48	*4	20'-9"	C
r	58	*4	2'-3"	C
x	94	*5	5'-5"	C

Removal of Existing Structure One  
Handrail Concrete Cu.Yds. 4.1  
Class X Concrete Cu.Yds. 129.5  
Reinforcement Bars Lbs. 32900  
Furn. & Erect. Structural Steel Lbs. 3390  
Name Plate Each One



STATION 217+40.54  
F.A.S. RT. 1273 SEC. 38 B  
FA. PROJECT S-793 (1)  
WAUPONSEE TOWNSHIP  
GRUNDY COUNTY

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Drawing Name: R:\USERS\11\11413-00 Grundy Co Hwy Dupont Dr Waupesean\04\035-EX PLAN 4.dwg Last Modified: Friday, February 25, 2022 11:52:29 AM Plotted On: Tuesday, March 29, 2022 9:26:48 AM by Kurt Decker

REVISIONS	LEVEL	BY	DATE	DESCRIPTION

PERU MORRIS  
OTTAWA MENDOTA  
ILLINOIS

DUPONT ROAD FAS 1273  
SECTION 19-00173-00-BR  
GRUNDY COUNTY

EXISTING PLANS

1987

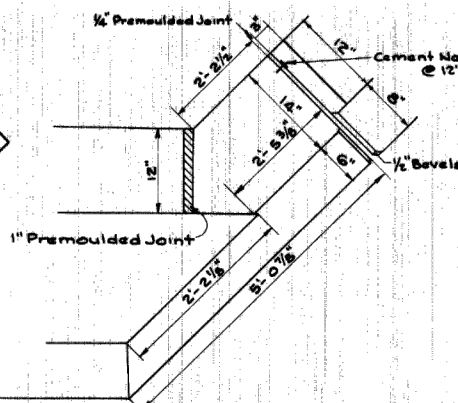
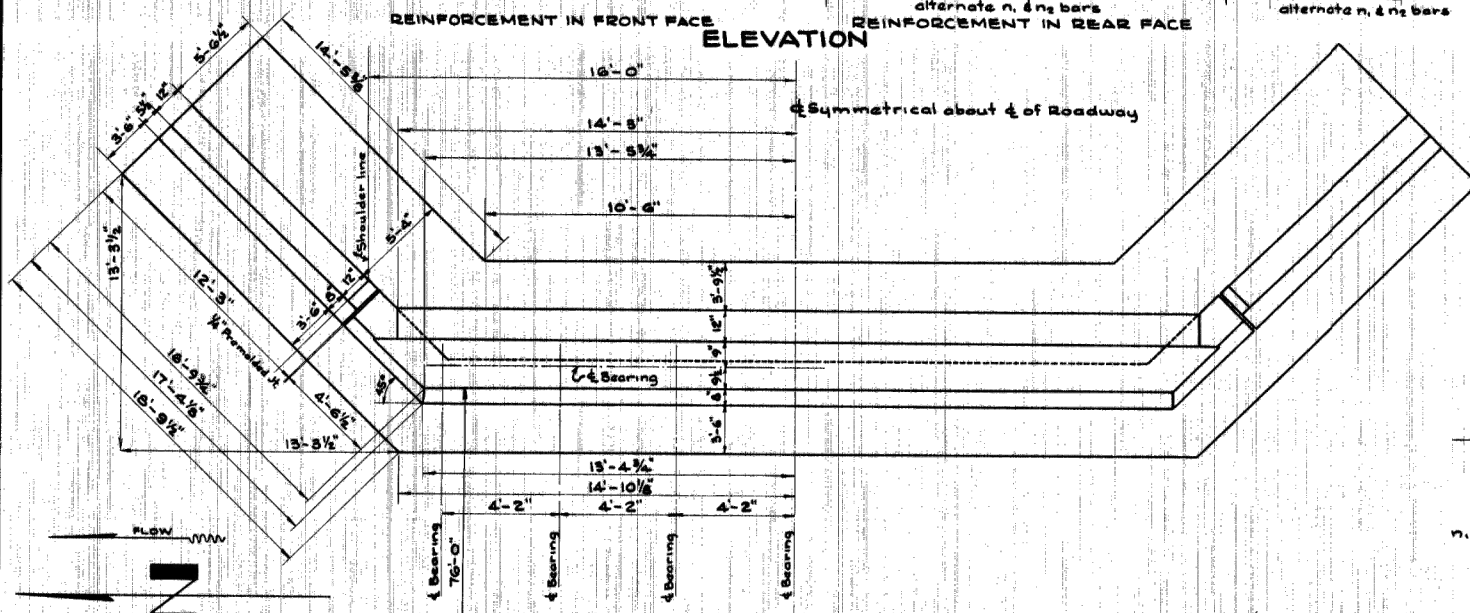
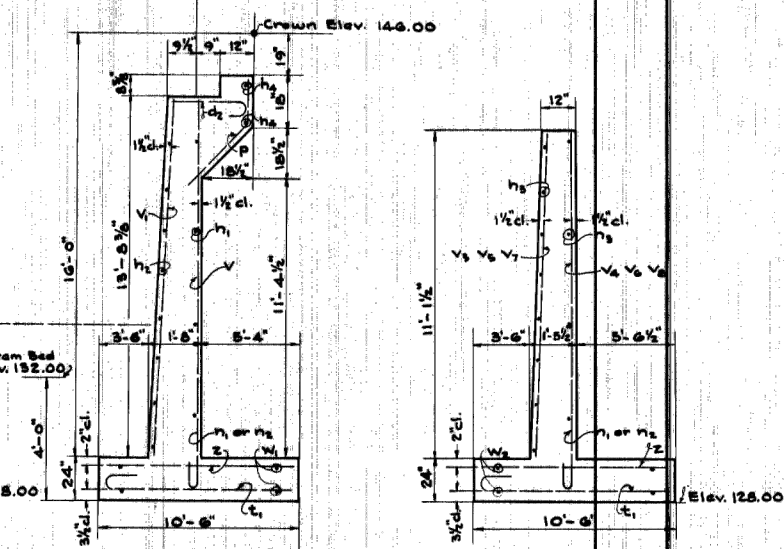
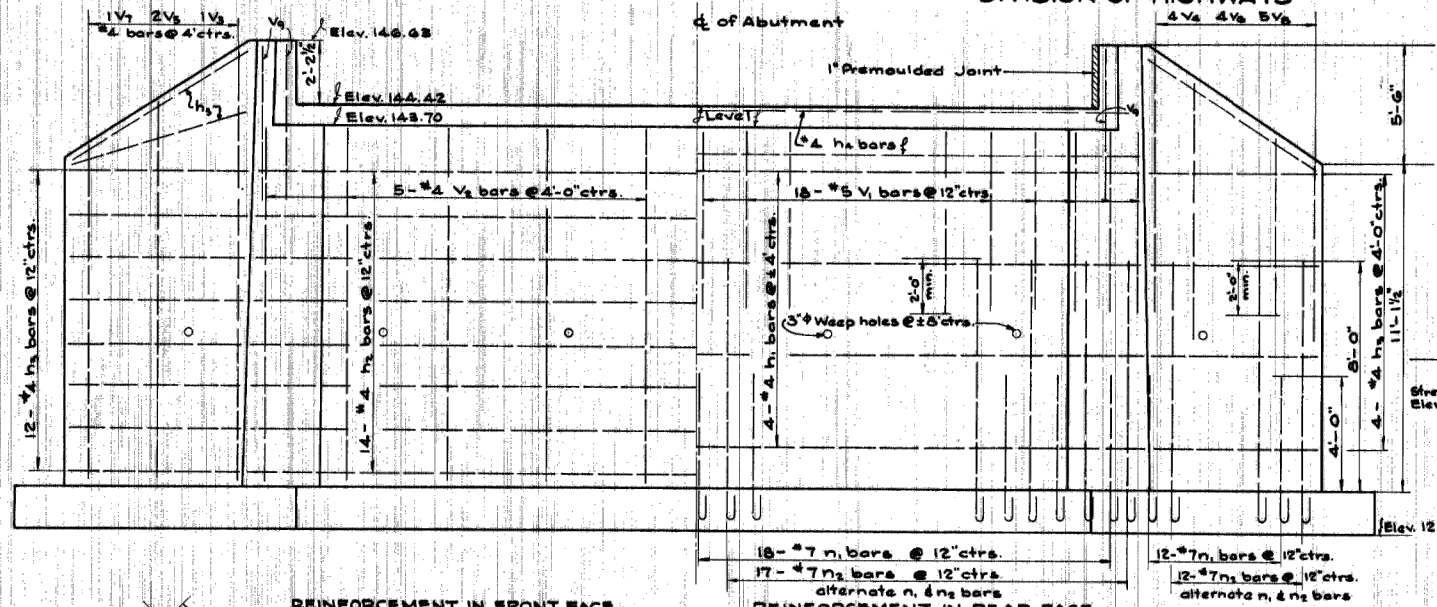
CONTRACT NO. 87756

CURRENT AS OF: 04/01/2022	
SCALE: AS NOTED	SHEET 35
FILE NO.: 111413.00 Y-	OF 43



STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

FEDERAL AID DISTRICT	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. RT. 1275	38-B	GRUNDY	10	7
FED. ROAD DIST. NO.		PROJECT	S-793 (1)	



BILL OF MATERIAL  
TWO ABUTMENTS

BAR	NO.	SIZE	LENGTH	SHAPE
d <sub>2</sub>	56	#4	7'-0"	U
h <sub>1</sub>	16	#4	16'-5"	—
h <sub>2</sub>	56	#4	19'-0"	—
h <sub>3</sub>	70	#4	12'-0"	—
h <sub>4</sub>	8	#4	16'-6"	—
n <sub>1</sub>	118	#7	6'-6"	L
n <sub>2</sub>	118	#7	10'-6"	L
p	60	#4	4'-6"	—
V <sub>1</sub>	70	#5	7'-6"	—
V <sub>2</sub>	20	#4	13'-6"	—
V <sub>3</sub>	4	#4	16'-6"	—
V <sub>4</sub>	16	#5	10'-6"	—
V <sub>5</sub>	8	#4	13'-6"	—
V <sub>6</sub>	16	#5	8'-9"	—
V <sub>7</sub>	4	#4	11'-0"	—
V <sub>8</sub>	20	#5	7'-0"	—
V <sub>9</sub>	12	#5	6'-0"	—
t <sub>1</sub>	182	#6	11'-3"	C
w <sub>1</sub>	16	#4	16'-6"	—
w <sub>2</sub>	16	#4	16'-9"	—
Z	182	#6	10'-3"	—

Class 'X' Concrete	Cu. Yds. 180.5
Reinforcement Bars	Lbs. 13770
Class 'A' Excav. for Struct.	Cu. Yds. 461
Class 'B' Excav. for Struct.	Cu. Yds. 327
Rock Excavation for Struct.	Cu. Yds. 9
Channel Excavation	Cu. Yds. 725

STATION 217+40.54  
F.A.S. RT. 1275 SEC. 38 B  
F.A. PROJECT S-793 (1)  
WAUPONSEE TOWNSHIP  
GRUNDY COUNTY

CHAMLIN & ASSOCIATES, INC. © 2021  
Drawing Name: R:\USERS\11111413-00 Grundy Co Hwy Dupont Ov Wauponsee\037-EX PLAN 6.dwg Last Modified: Friday, February 25, 2022 11:54:12 AM Plotted On: Tuesday, March 29, 2022 9:24:20 AM by Kurt Decker

REVISIONS	LEVEL	BY	DATE	DESCRIPTION

**CA**  
CHAMLIN & ASSOCIATES

PERU MORRIS  
OTTAWA MENDOTA  
ILLINOIS

DUPONT ROAD FAS 1273  
SECTION 19-00173-00-BR  
GRUNDY COUNTY

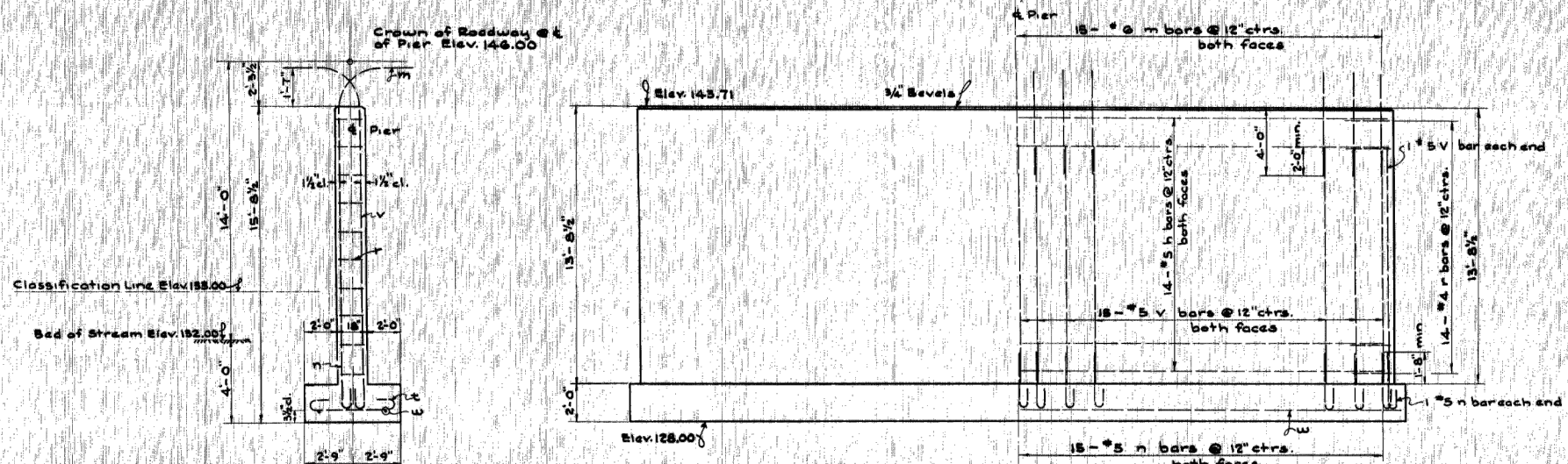
EXISTING PLANS

CURRENT AS OF: 04/01/2022	SHEET 37
SCALE: AS NOTED	OF 43
FILE NO.: 111413.00 Y-	

CONTRACT NO. 87756

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

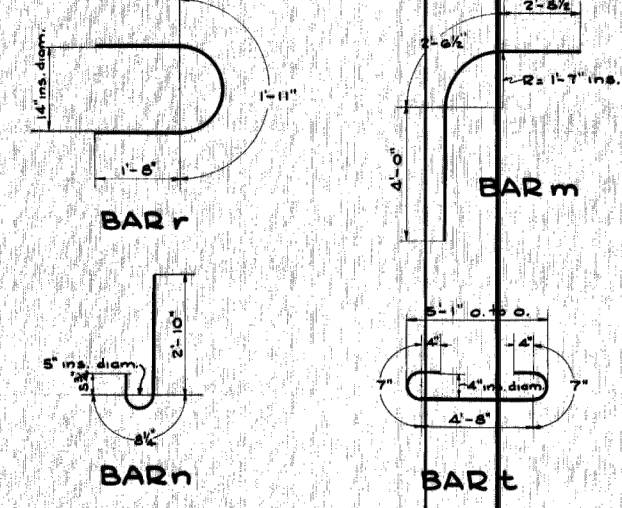
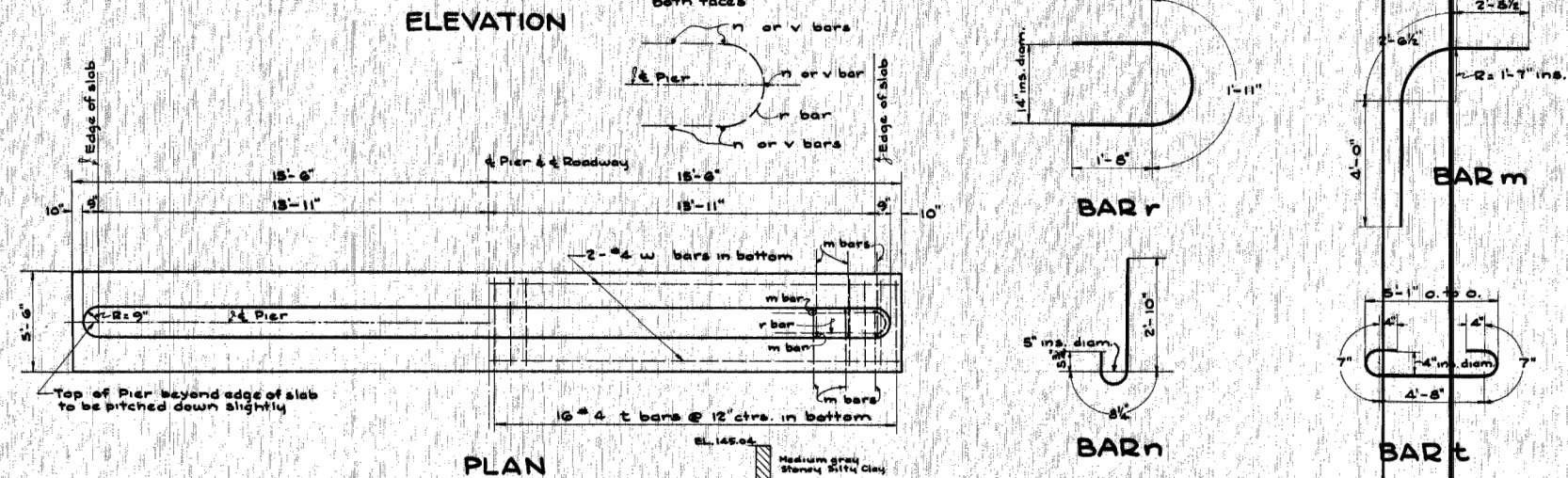
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F.A.S. RT.1273	38-B	GRUNDY	10	2
FED. ROAD DIST. NO. 7		PROJ. NO. 5-793(1)		



**BILL OF MATERIAL**

BAR NO.	SIZE	LENGTH	SHAPE
h	#5	15'-0"	
m	#5	9'-0"	
n	#5	4'-0"	
r	#4	5'-3"	
v	#5	11'-9"	
t	#4	6'-6"	
w	#4	16'-0"	

Reck Excavation for Structures Cu.Yds. 1  
Class 'X' Concrete Cu.Yds. 34.7  
Reinforcement Bars Lbs. 2930  
Class B Excav. for Structures Cu.Yds. 50



*Handwritten notes and signatures:*  
12/20/21  
JKC  
12/20/21

STATION 217+40.54  
F.A.S. RT.1273 SEC. 38 B  
F.A. PROJECT 5-793(1)  
WAUPONSEE TOWNSHIP  
GRUNDY COUNTY

CHAMLIN & ASSOCIATES, INC. © 2021  
Drawing Name: R:\USERS\11\11413-00 Grundy Co Hwy Dupont Dr Wauponse\04\038-EX PLAN 7.dwg Last Modified: Friday, February 25, 2022 11:55:11 AM Plotted On: Tuesday, March 29, 2022 9:23:37 AM by Kurt Decker

REVISIONS	LEVEL	BY	DATE	DESCRIPTION

PERU MORRIS  
OTTAWA MENDOTA  
ILLINOIS

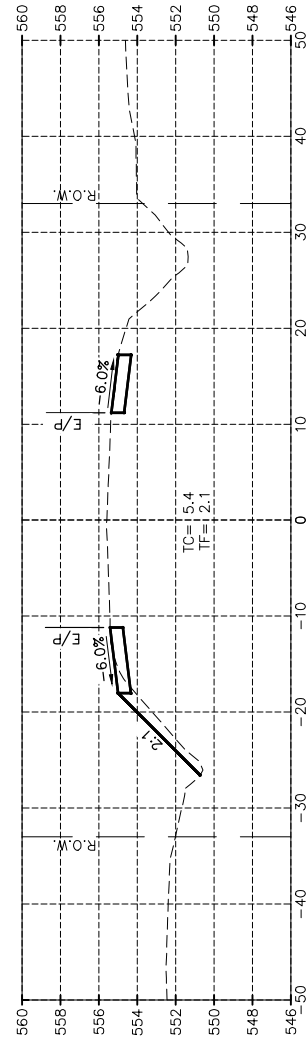
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SECTION 19-00173-00-BR  
GRUNDY COUNTY

EXISTING PLANS

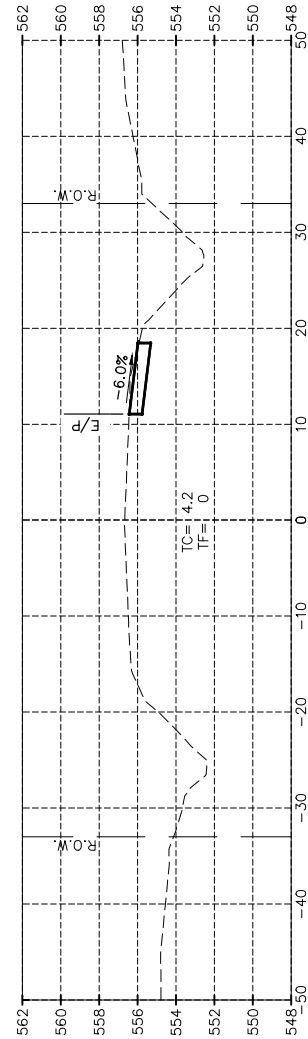
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SCALE: AS NOTED	OF 43
FILE NO.: 111413.00 Y-	

CONTRACT NO. 87756

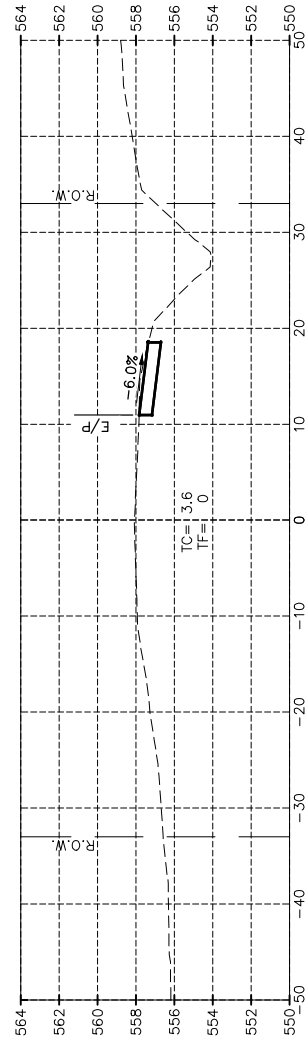
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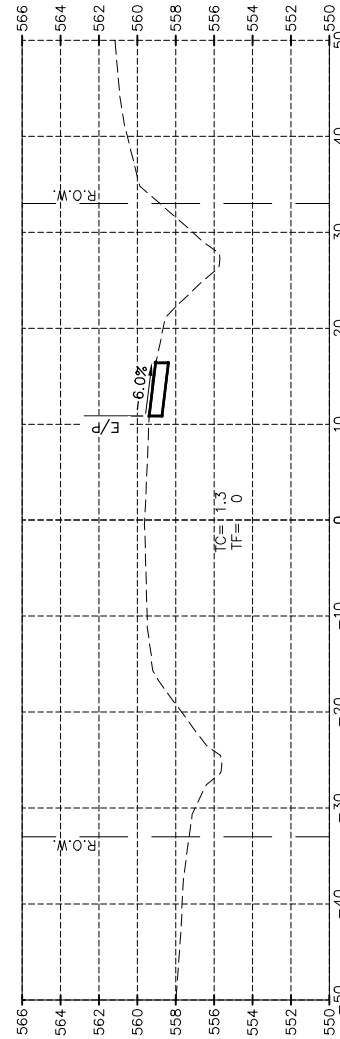
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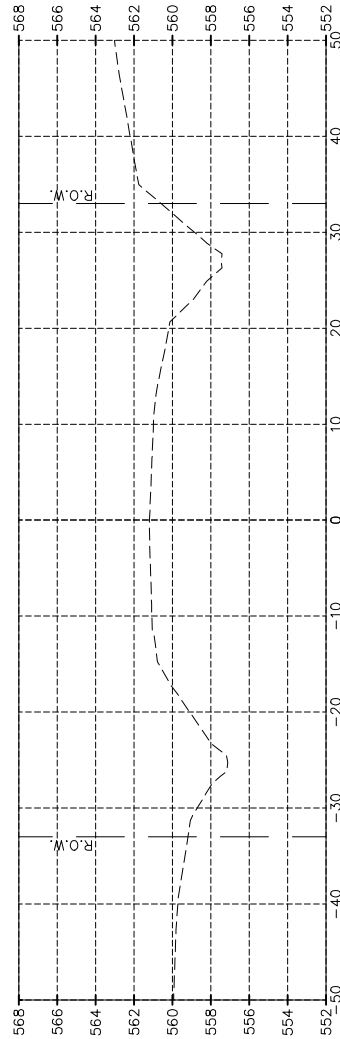
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215+25.00



215+00.00



214+75.00

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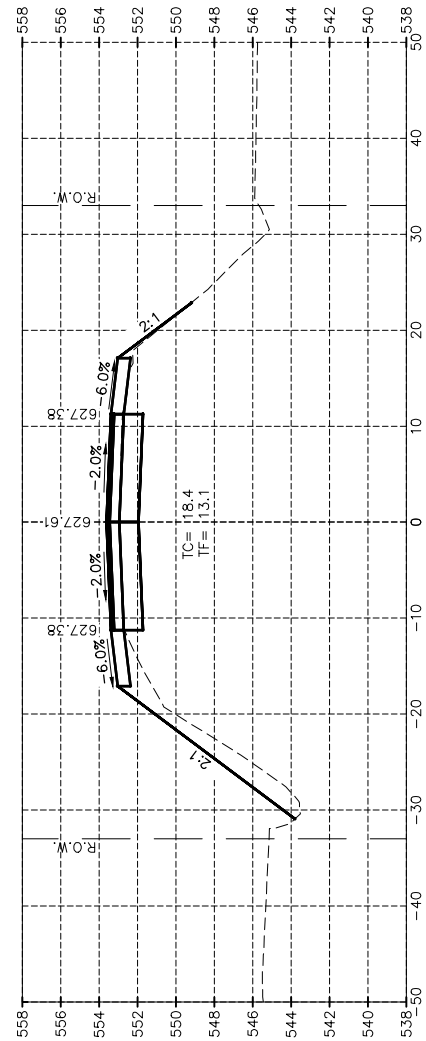
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OTTAWA MENDOTA  
ILLINOIS

DUPONT ROAD FAS 1273  
SECTION 19-00173-00-BR  
GRUNDY COUNTY

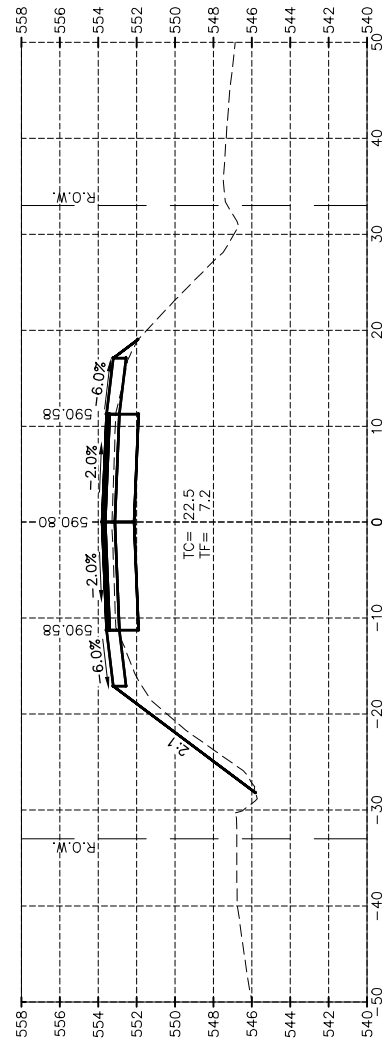
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SCALE: AS NOTED	SHEET 39
FILE NO.: 111413.00 Y-	OF 43

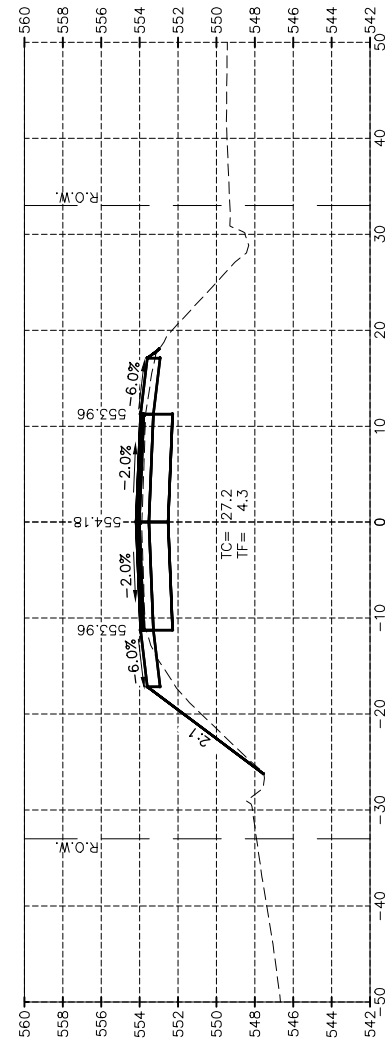
CHAMLIN & ASSOCIATES, INC. © 2022  
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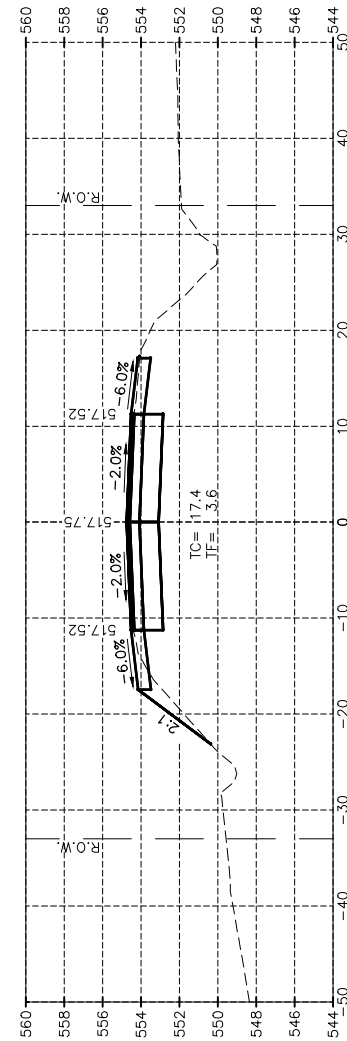
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216+50.00



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216+00.00

CONTRACT NO. 87756

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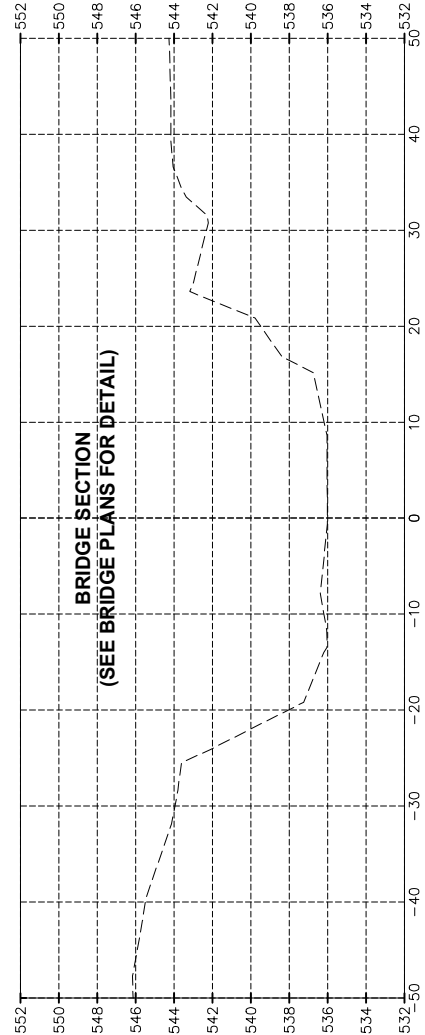
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GRUNDY COUNTY

PROPOSED CROSS SECTIONS

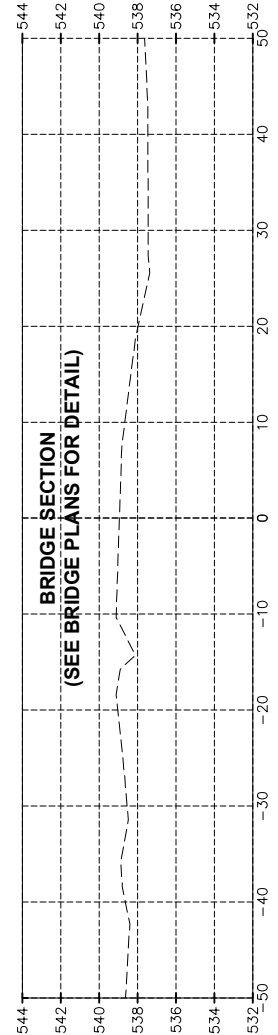
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SCALE: AS NOTED	SHEET 40
FILE NO.: 111413.00 Y-	OF 43



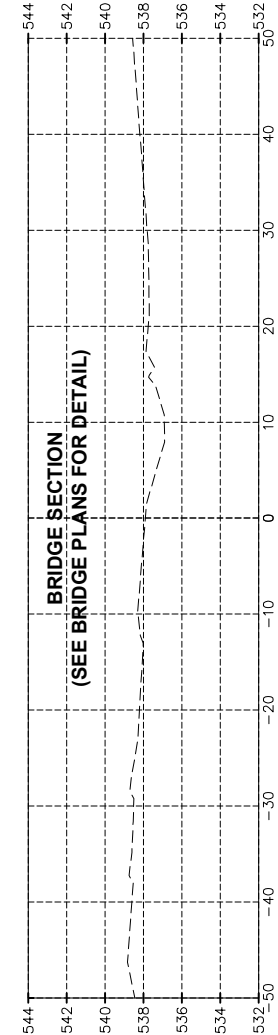
CHAMLIN & ASSOCIATES, INC. © 2022  
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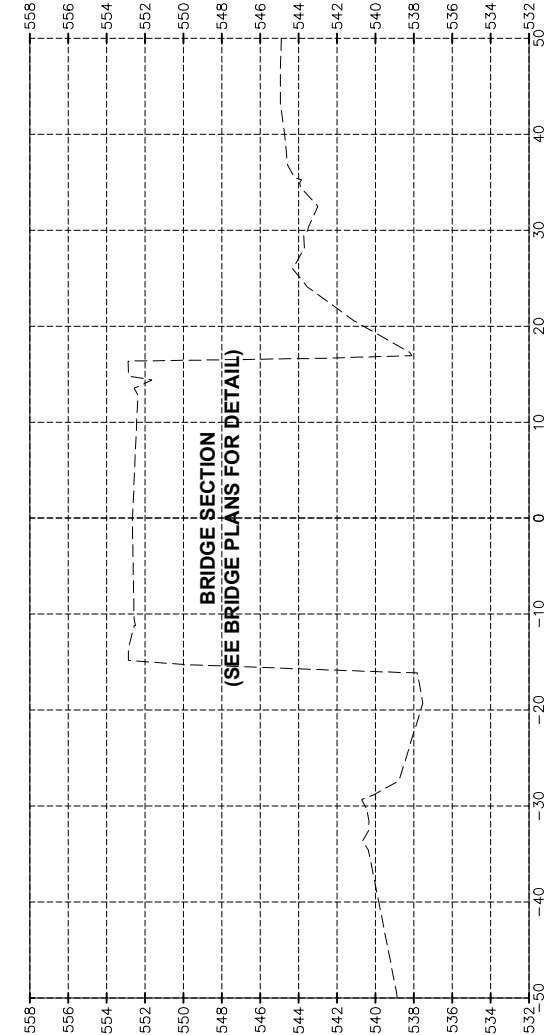
217+75.00



217+50.00



217+25.00



217+00.00

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DATE: 02/22				



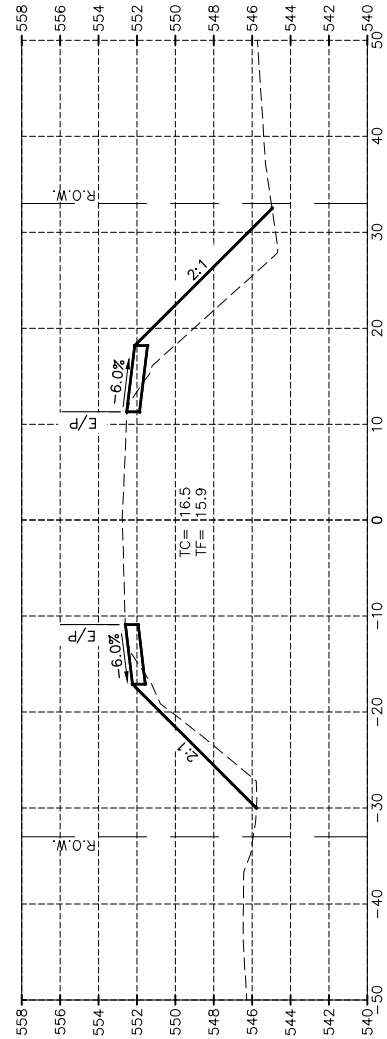
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 OTTAWA MENDOTA  
 ILLINOIS

**DUPONT ROAD FAS 1273**  
**SECTION 19-00173-00-BR**  
**GRUNDY COUNTY**

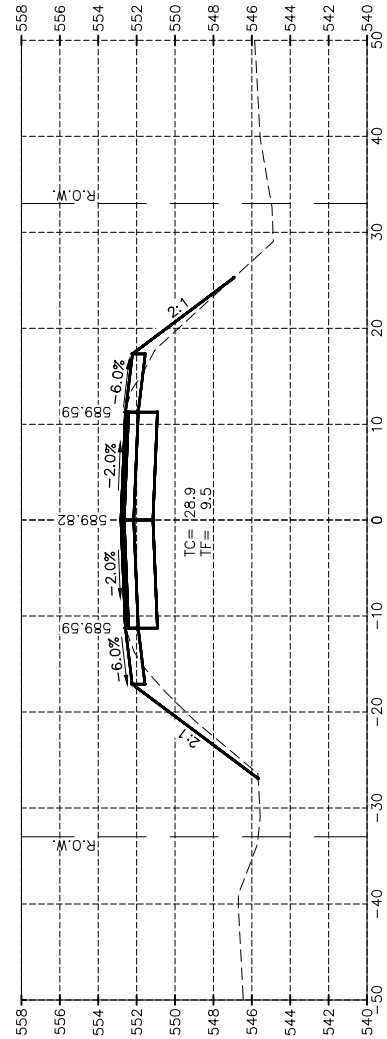
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CURRENT AS OF: 04/01/2022	
SCALE: AS NOTED	SHEET 41
FILE NO.: 111413.00 Y-	OF 43

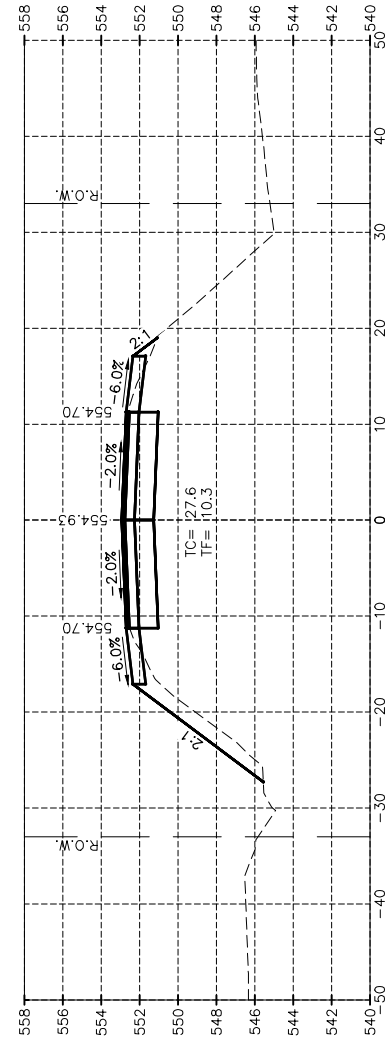
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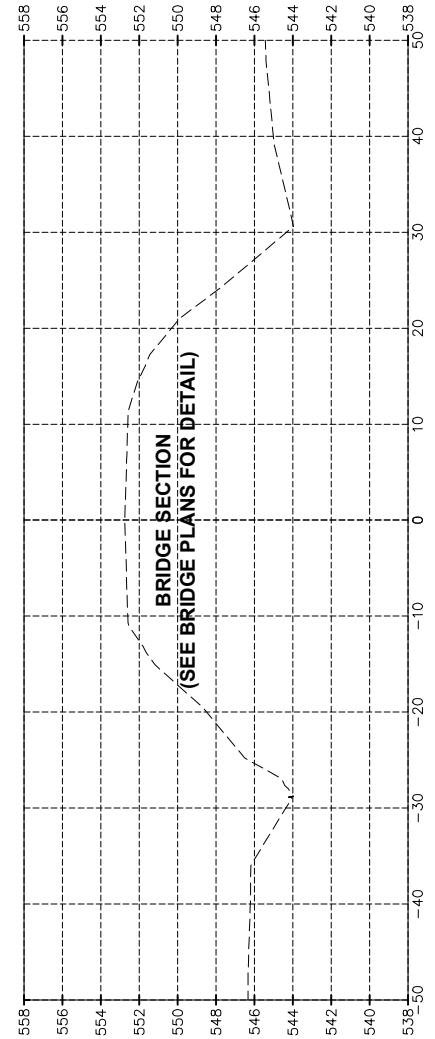
218+75.00



218+50.00



218+25.00



218+00.00

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	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: CM				
DATE: 02/22				



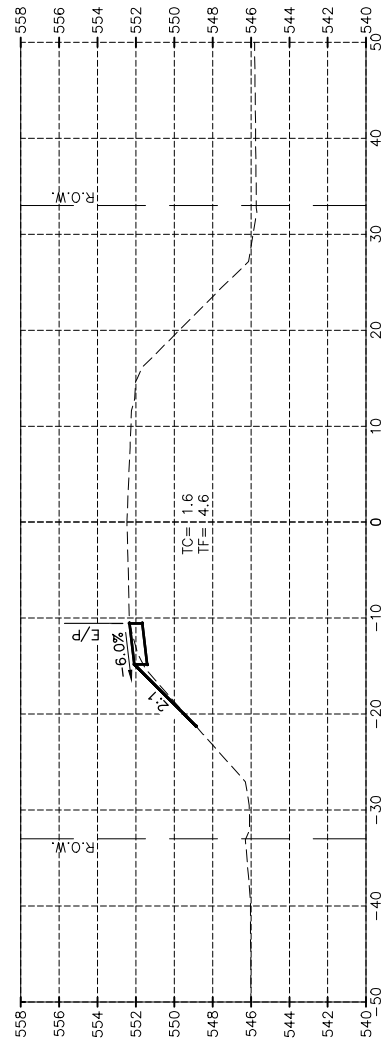
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SECTION 19-00173-00-BR  
GRUNDY COUNTY

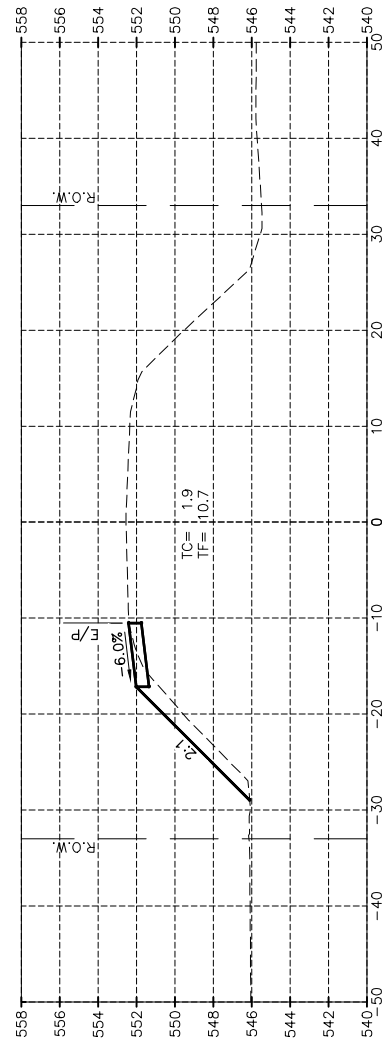
PROPOSED CROSS SECTIONS

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SCALE: AS NOTED	SHEET 42
FILE NO.: 111413.00 Y-	OF 43

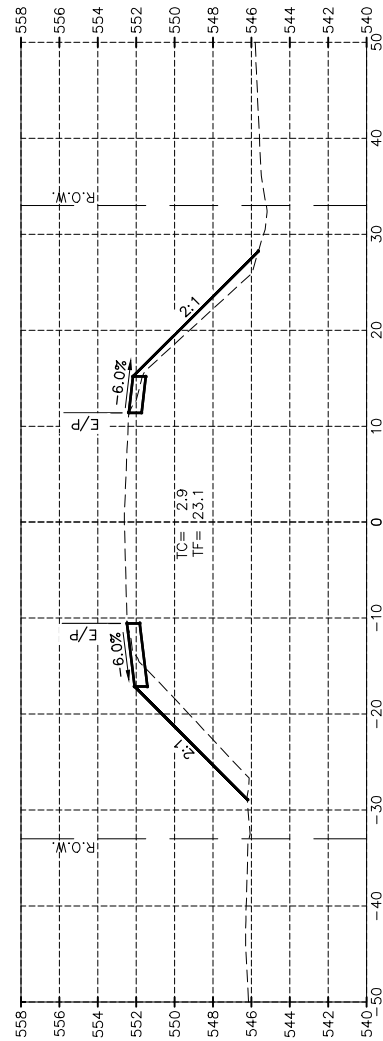
CHAMLIN & ASSOCIATES, INC. © 2022  
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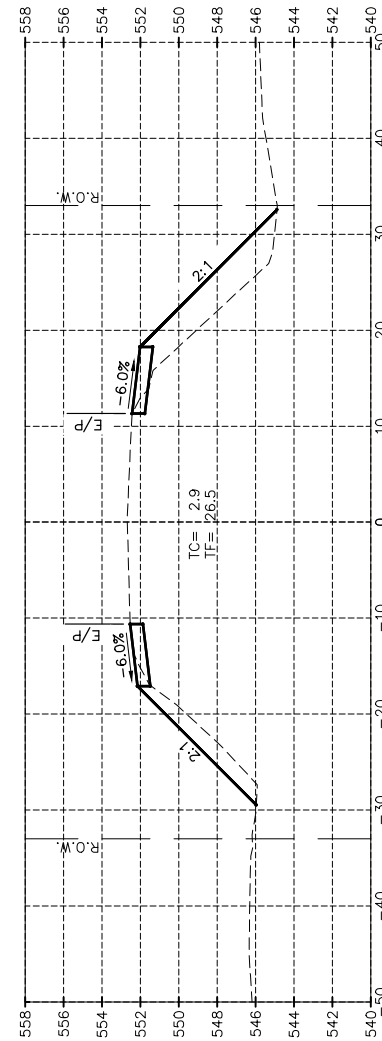
219+75.00



219+50.00



219+25.00



219+00.00

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CHECKED BY: CM	LEVEL	BY	DATE
DATE: 02/22			
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PROPOSED CROSS SECTIONS

CURRENT AS OF: 04/01/2022	
SCALE: AS NOTED	SHEET 43
FILE NO.: 111413.00 Y-	OF 43