

07-30-2021 LETTING ITEM 054

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**
FAS 1240 (PERU ROAD)
VILLAGE OF SEATONVILLE
SECTION 20-00008-00-BR
PROJECT UTLN (920)
BUREAU COUNTY
C-93-026-22

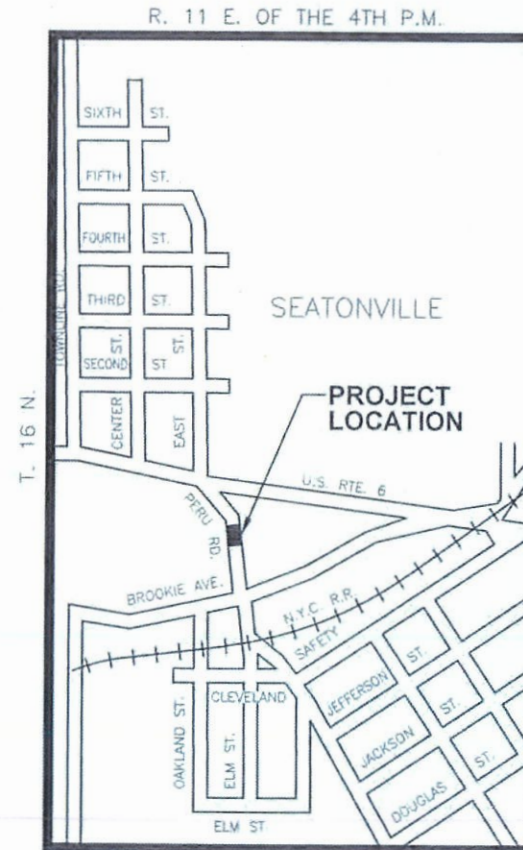
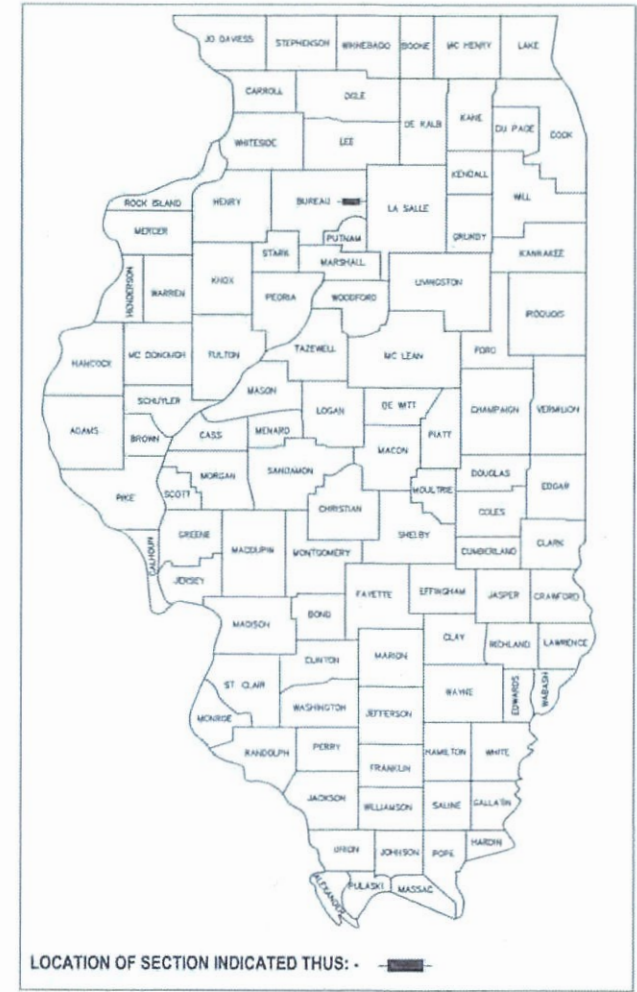
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	20-00008-00-BR	BUREAU	24	1
FED. ROAD DIST. NO. --	ILLINOIS	CONTRACT NO. 87781		

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- 6 DETAILS
- 7-23 ORIGINAL BRIDGE PLANS (SECTION 85-00139-00-BR)-
FOR REFERENCE ONLY
- 24 SOIL BORINGS B1 AND B2

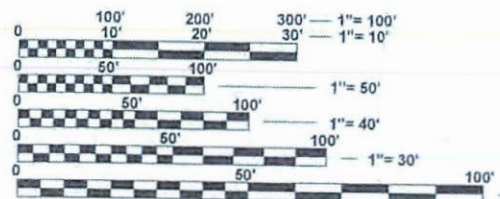
HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 420001-09 PAVEMENT JOINTS
- 701901-08 TRAFFIC CONTROL DEVICES
- BLR 17-4 TRAFFIC CONTROL DEVICES DAY LABOR CONSTRUCTION
- BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICE FOR
CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- BLR 23-4 TRAFFIC BARRIER TERMINAL TYPE 1
- BLR 26-3 STEEL PLATE BEAM GUARDRAIL 29" (732 mm) HEIGHT
- BLR 27-1 TRAFFIC BARRIER TERMINAL TYPE 5A



LOCATION MAP
PROJECT LOCATION MAP

NET LENGTH OF SECTION 122.67' (0.023 MILES)
GROSS LENGTH OF SECTION 122.67' (0.023 MILES)



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

CONTRACT NO. 87781

FUNCTIONAL CLASSIFICATION

MAJOR COLLECTOR
ADT = 450 (2017)
POSTED SPEED 20 MPH
DESIGN SPEED 20 MPH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

930
PRESIDENT, VILLAGE OF SEATONVILLE

4-20-21
DISTRICT 3 LOCAL ROADS AND STREETS ENGINEER



May 29 2021
RELEASED FOR BID BASED ON LIMITED REVIEW
REGION 2 ENGINEER

JAMES K CLINARD
CHAMLIN & ASSOCIATES
815.223.3344

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 by: Nancy Villava

GENERAL NOTES

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES (100 MILLIMETERS) IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF STRUCTURE EXCAVATION.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT /100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION
CALCIUM CHLORIDE	2	LB / SQ YD / APPLICATION
AGGREGATE DITCH CHECKS	5	TONS AGGREGATE

THE WORK REQUIRED TO CONNECT ANY SEWER TO AN EXISTING DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE SEWER ITEMS.

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

AT&T
 AMEREN ILLINOIS
 FRONTIER COMMUNICATIONS

DUE TO THE CONFIGURATION OF THE EXISTING STRUCTURE, EXCAVATION BEHIND THE NORTH AND SOUTH ABUTMENT MUST BE COMPLETED SIMULTANEOUSLY SUCH THAT THE HEIGHT OF FILL BEHIND EACH ABUTMENT IS NEARLY EQUAL AT ANY GIVEN TIME. IN ORDER TO SAFEGUARD AGAINST COLLAPSE OF THE STRUCTURE, THE DIFFERENCE IN BACKFILL ELEVATION BEHIND THE NORTH AND SOUTH ABUTMENTS MUST NOT BE GREATER THAN 3' AT ANY GIVEN TIME DURING THE COURSE OF THE WORK.

AS SPECIFIED ABOVE FOR EXCAVATION, BACKFILLING BEHIND THE NORTH AND SOUTH ABUTMENT MUST BE COMPLETED SIMULTANEOUSLY SUCH THAT THE HEIGHT OF FILL BEHIND EACH ABUTMENT IS NEARLY EQUAL AT ANY GIVEN TIME. IN ORDER TO SAFEGUARD AGAINST COLLAPSE OF THE STRUCTURE, THE DIFFERENCE IN BACKFILL ELEVATION BEHIND THE NORTH AND SOUTH ABUTMENTS MUST NOT BE GREATER THAN 3' AT ANY GIVEN TIME DURING THE COURSE OF THE WORK.

TEMPORARY COFFERDAMS AND DEWATERING

ALL WORK NECESSARY TO ENSURE THAT THE SEAL COAT CONCRETE CAN BE PLACED IN SUBSTANTIALLY DRY CONDITIONS BENEATH UNDERMINED AREAS OF FOUNDATIONS SHALL BE PAID AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CONCRETE SEAL COAT. THIS WORK SHALL INCLUDE THE CONSTRUCTION OF A SUBSTANTIALLY WATER-TIGHT BARRIER OR "COFFERDAM" BETWEEN THE STREAM AND THE UNDERMINED AREA. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROPOSE A METHOD TO CREATE THE BARRIER AND TO IMPLEMENT ITS CONSTRUCTION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR DEWATERING THE UNDERMINED AREA AND MAINTAINING A DEWATERED CONDITION IN THE UNDERMINED AREA THROUGH THE USE OF SUMPS AND PUMPS OR OTHER SUITABLE MEANS UNTIL SUCH TIME THAT THE SEAL COAT CONCRETE HAS BEEN PLACED AND HAS OBTAINED ITS INITIAL SET. SAND BAGGING MAY BE A VIABLE OPTION.

CONTRACT NO. 87781

DRAWN BY: NV	REVISIONS			
CHECKED BY: AJO	LEVEL	BY	DATE	DESCRIPTION
DATE: 02/20				



PERU MORRIS
 OTTAWA MENDOTA
 ILLINOIS

VILLAGE OF SEATONVILLE
PERU ROAD BRIDGE REPAIR
SECTION 20-00008-00-BR

GENERAL NOTES

CONSTRUCTION PLANS

CURRENT AS OF: 05/20/2021	
SCALE: AS NOTED	SHEET 2
FILE NO.: 11593.03 Y-	OF 24

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CONSTRUCTION CODE 0006

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
Δ 20300200	ROCK EXCAVATION IN CHANNEL	CU YD	10
25000210	SEEDING, CLASS 2A	ACRE	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	25
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	25
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	25
25100630	EROSION CONTROL BLANKET	SQ YD	63
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	258
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	400
44000100	PAVEMENT REMOVAL	SQ YD	254
44000600	SIDEWALK REMOVAL	SQ FT	400
48101200	AGGREGATE SHOULDERS, TYPE B	TON	36
48301000	PROTECTIVE COAT	SQ YD	258
50105220	PIPE CULVERT REMOVAL	FOOT	60
50200100	STRUCTURE EXCAVATION	CU YD	1050

Δ - SPECIAL PROVISION

CONTRACT NO. 87781

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DATE: 02/20				



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VILLAGE OF SEATONVILLE
 PERU ROAD BRIDGE REPAIR
 SECTION 20-00008-00-BR

SUMMARY OF QUANTITIES

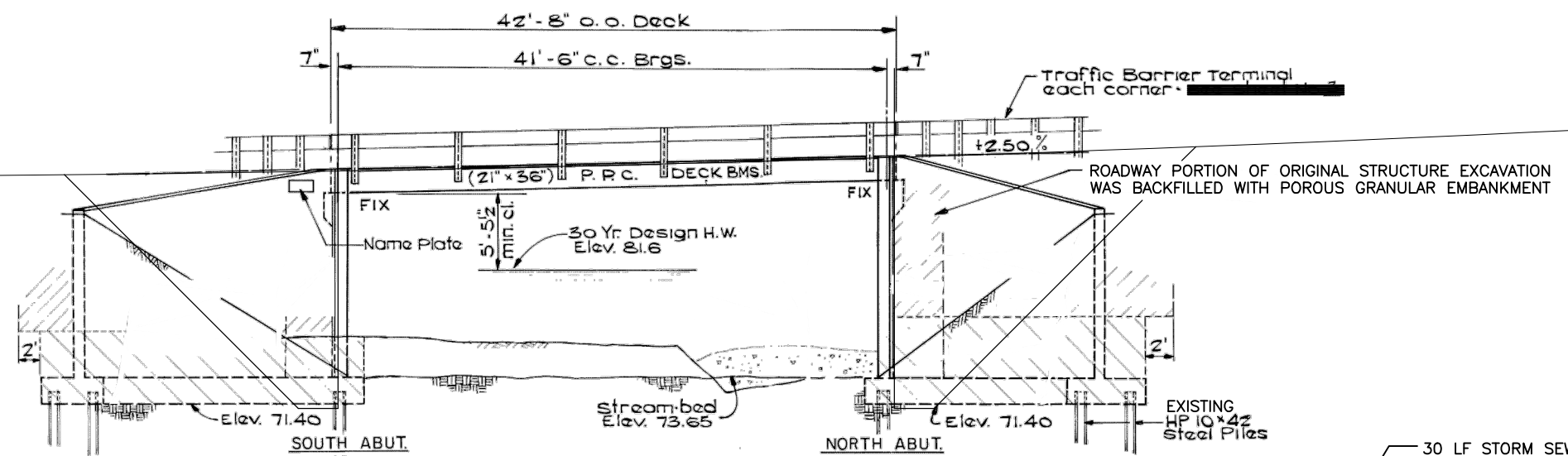
CONSTRUCTION
PLANS

CURRENT AS OF: 05/20/2021	
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FILE NO.: 11593.03 Y-	OF 24

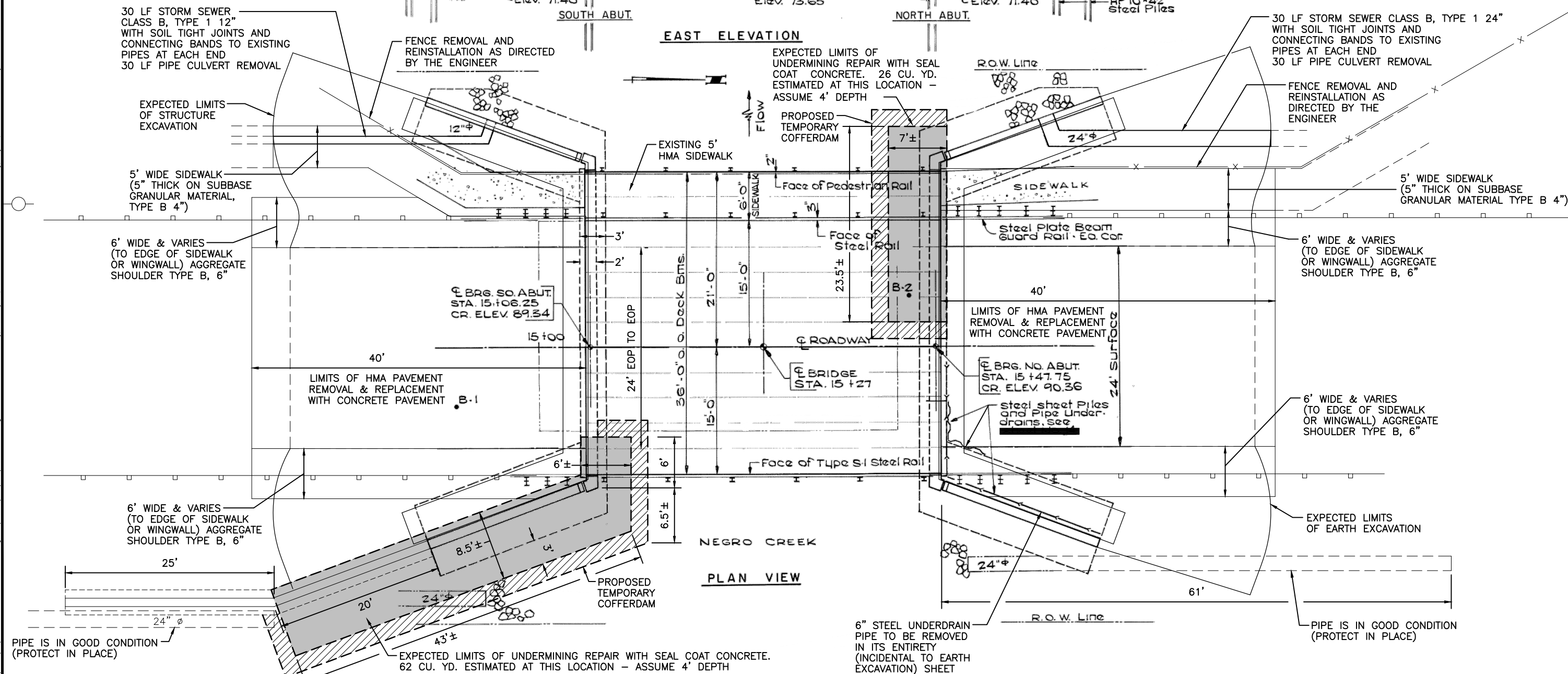
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 By: Nanci Vilava

NOTES:
 SOUTH ABUTMENT HAS (5) 3" Ø DRAIN HOLES EVENLY SPACED 8' APART INV. ELEV.=77.17± AND (1) 6" Ø DRAIN HOLE AT MIDDLE INV. ELEV.=81.17±

NOTES:
 NORTH ABUTMENT HAS (5) 3" Ø DRAIN HOLES EVENLY SPACED 8' APART WITH INV. ELEV.=77.2± AND (3) 6" Ø DRAIN HOLES WITH INV. ELEV.=75.2±
 A 6" STEEL PIPE UNDERDRAIN IS ASSUMED TO BE CONNECTED TO THE 6" DRAIN OPENINGS BEHIND THE NORTH ABUTMENT PER THE ORIGINAL PLANS AND PER FIELD INVESTIGATIONS.



EAST ELEVATION



PLAN VIEW

REVISIONS	LEVEL	BY	DATE	DESCRIPTION


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**VILLAGE OF SEATONVILLE
 PERU ROAD BRIDGE REPAIR
 SECTION 20-00008-00-BR**

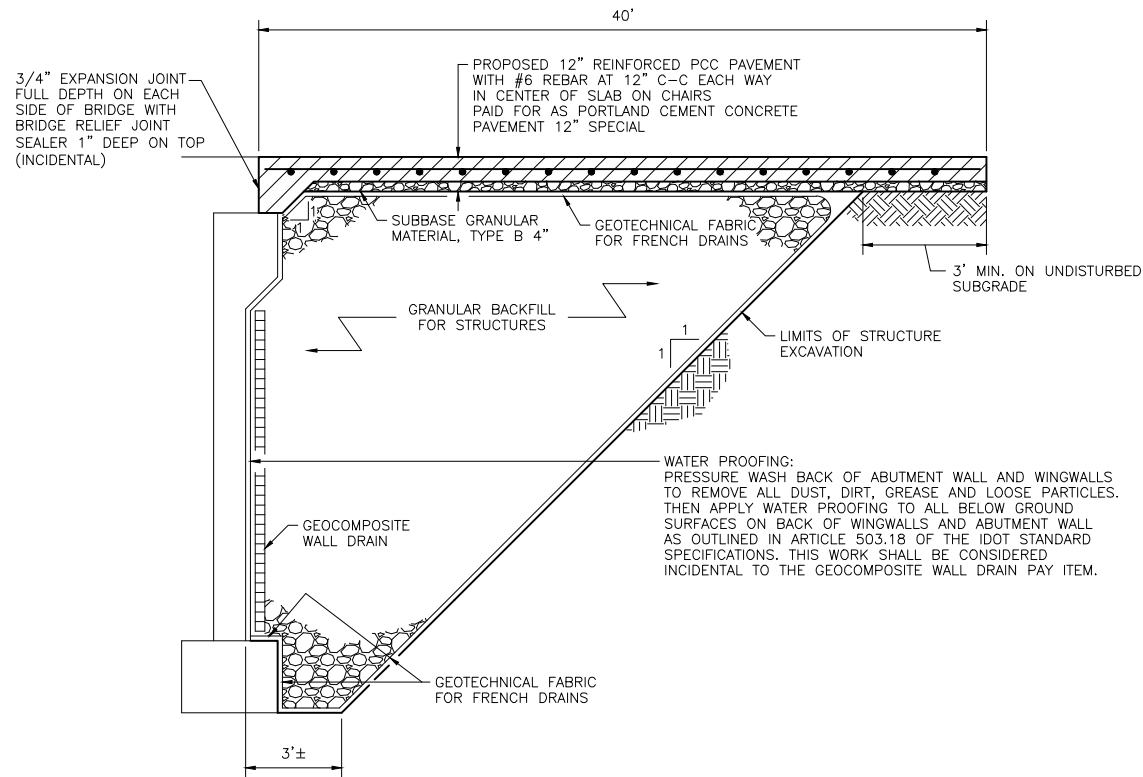
PLAN & ELEVATION

**CONSTRUCTION
 PLANS**

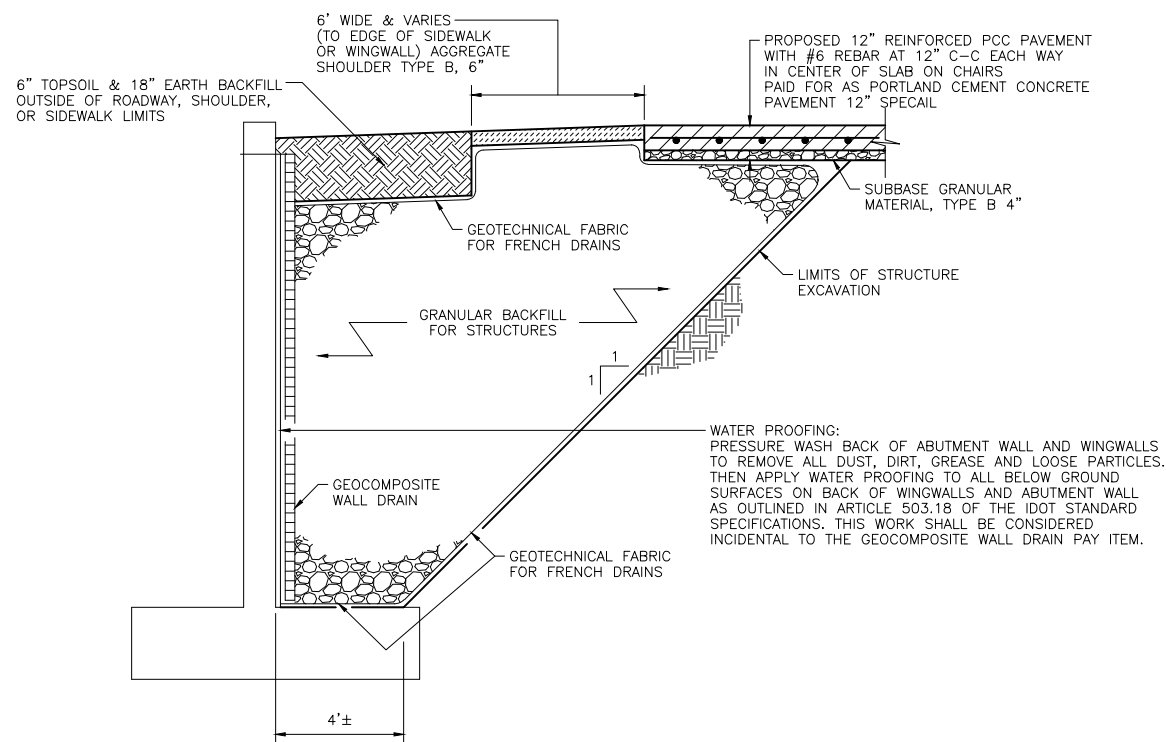
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FILE NO.: 11593.03 Y-	OF 24

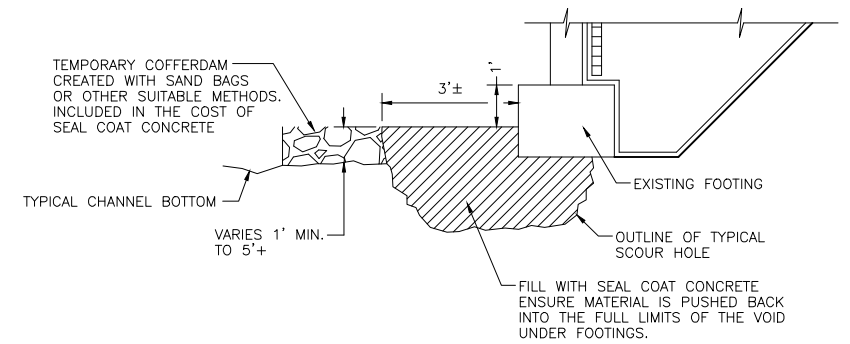
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SECTION AT ABUTMENT

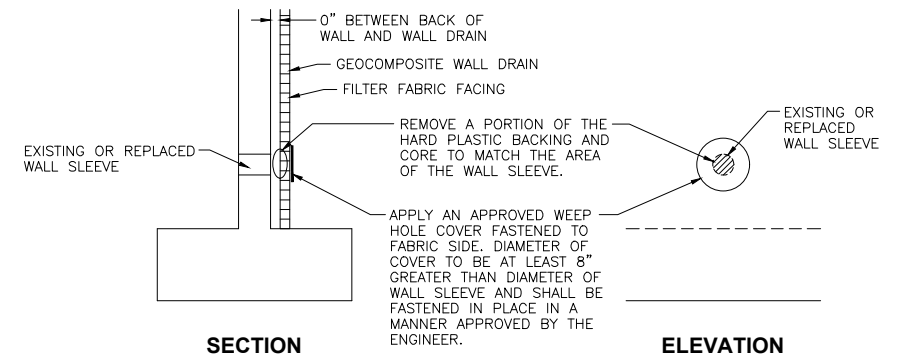


SECTION AT WINGWALL



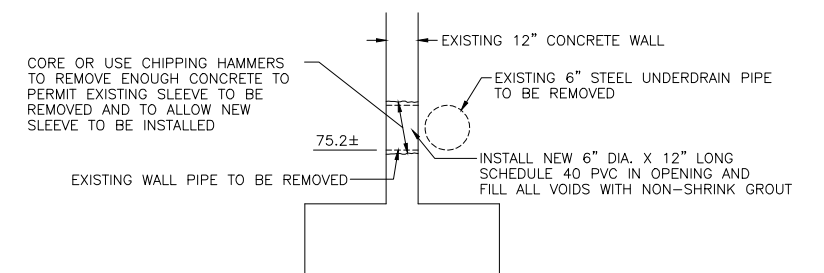
SECTION AT ABUTMENT WITH UNDERMINE REPAIR

NOTE: UNDERMINE REPAIRS SHALL ONLY BE CONDUCTED DURING A PERIOD OF DRY WEATHER AND LOW STREAM FLOW AS DETERMINED BY THE ENGINEER



DETAIL: WALL DRAIN AT WEEP HOLES TO BE USED AT ALL WEEP HOLES (6" OR 3") / PIPE PENETRATIONS IN ABUTMENT WALLS OR WING WALL

(COST INCLUDED IN GEOCOMPOSITE WALL DRAIN)



WALL SLEEVE REPLACEMENT DETAIL TO BE USED AT THE 3 LOWER DRAIN OPENINGS IN THE NORTH ABUTMENT WALL

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DATE: 02/20				

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 ILLINOIS

**VILLAGE OF SEATONVILLE
 PERU ROAD BRIDGE REPAIR
 SECTION 20-0008-00-BR**

DETAILS

**CONSTRUCTION
 PLANS**

CONTRACT NO. 87781	
CURRENT AS OF: 05/20/2021	
SCALE: AS NOTED	SHEET 6
FILE NO.: 11593.03 Y-	OF 24

SUMMARY OF QUANTITIES

CODE NO.	PARTICIPATING	NON PARTICIPATING	TOTAL	UNIT	DESCRIPTION
20100100	118	154	272	IN DIA	TREE REMOVAL (6 TO 15 INCH DIAMETER)
20200100	156	259	415	CU YD	EARTH EXCAVATION
20300100	75		75	CU YD	CHANNEL EXCAVATION
20900200	486		486	CU YD	POROUS GRANULAR EMBANKMENT
30101400	242	81	323	TON	AGGREGATE BASE COURSE, TYPE B
40600100	177	95	272	GAL	BITUMINOUS MATERIALS (PRIME COAT)
40600700	29	128	157	TON	BITUMINOUS CONCRETE BINDER COURSE
40601300	35	87	122	TON	BITUMINOUS CONCRETE SURFACE COURSE, MIXTURE D, CLASS I
50100100	1		1	EACH	REMOVAL OF EXISTING STRUCTURES
50200300	360		360	CU YD	COFFERDAM EXCAVATION
50200400	230.2		230.2	CU YD	ROCK EXCAVATION FOR STRUCTURES
50200500	2		2	EACH	COFFERDAMS
50400300	172.8		172.8	CU YD	CLASS X CONCRETE
50400400	5.0		5.0	CU YD	SEAL COAT CONCRETE
50500400	1536		1536	SQ FT	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)
50800200	43		43	LIN FT	STEEL RAILING TYPE S-1
50800800	43		43	LIN FT	PEDESTRIAN RAIL
50801100	43		43	LIN FT	STEEL RAILING
51100217	32	28	60	LIN FT	PIPE CULVERTS, TYPE 1, 12"
51100229	138		138	LIN FT	PIPE CULVERTS, TYPE 1, 24"
51200100	15310		15310	POUND	REINFORCEMENT BARS
51301400	288		288	LIN FT	FURNISHING STEEL PILES HP 10X42
51302700	288		288	LIN FT	DRIVING STEEL PILES
51303400	2		2	EACH	TEST PILE STEEL HP 10X42
51304600	50		50	EACH	METAL SHOES
51304900	80		80	SQ FT	STEEL SHEET PILING
51400100	1		1	EACH	NAME PLATES
60100610	44		44	SQ YD	STONE DUMPED RIPRAP
60101900		522	522	SQ FT	STEEL DITCH CHECKS
60708700	38		38	LIN FT	PIPE UNDERDRAINS, PERFORATED CORRUGATED STEEL PIPE 6"
61242900		2	2	EACH	INLETS, SPECIAL, TYPE 1
61255500		1	1	EACH	MANHOLES TO BE ADJUSTED
61260100		1	1	EACH	INLETS TO BE ADJUSTED
61500300	1		1	EACH	FILL EXISTING INLETS
61700009		120	120	SQ YD	BITUMINOUS SURFACE REMOVAL 3"
62400200	510		510	SQ FT	PORTLAND CEMENT SIDEWALK 5 INCH
62800000	50		50	LIN FT	STEEL PLATE BEAM GUARD RAIL, TYPE A
62800035	4		4	EACH	TRAFFIC BARRIER TERMINAL TYPE 1
62800075	4		4	EACH	TRAFFIC BARRIER TERMINAL TYPE 5A
64201000	0.13	0.30	0.43	ACRE	SEEDING CLASS II SPECIAL
64700100	39	107	146	LIN FT	PAVEMENT MARKING TAPE
Z0042400	470		470	LIN FT	P.C. MORTAR FAIRING COURSE
Z0065000	50		50	EACH	SET PILES IN ROCK
Z0077500	171		171	SQ YD	WATERPROOFING MEMBRANE SYSTEM
T5020200	390	1070	1460	LIN FT	PAINT PAVEMENT MARKING LINE 4"

SUMMARY OF QUANTITIES
SECTION 85-00139-00-BR
SEATONVILLE
BUREAU COUNTY

CONTRACT NO. 87781

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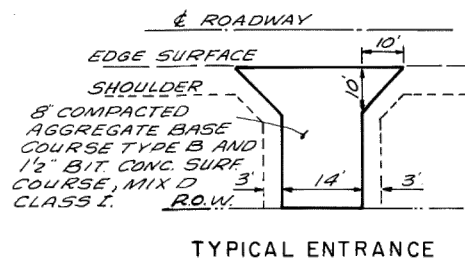


PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

**VILLAGE OF SEATONVILLE
PERU ROAD BRIDGE REPAIR
SECTION 20-0008-00-BR**

**EXISTING PLANS
FOR INFORMATION ONLY**

CONSTRUCTION PLANS	CURRENT AS OF: 05/20/2021	
	SCALE: AS NOTED	SHEET 8
	FILE NO.: 11593.03 Y-	OF 24



LOCATION	TREE REMOVAL	REMARKS
PARTICIPATING	6" - 15"	
R 14+66	14	
R 15+47	24	3 @ 8"
R 15+52	6	
R 15+54	12	2 @ 6"
R 15+83	6	
R 15+95	24	2 @ 12"
R 16+01	20	2 @ 10"
R 16+01	12	
PARTICIPATING BRIDGE TOTAL	118	

LOCATION	TREE REMOVAL	REMARKS
NON-PARTICIPATING	6" - 15"	
R 13+80	18	3 @ 6"
R 14+28	6	
R 14+33	6	
R 16+22	24	2 @ 12"
R 16+53	20	2 @ 10"
R 16+53	8	
R 16+53	12	2 @ 6"
R 17+11	6	
R 17+21	12	
R 17+36	7	
R 17+41	7	
R 17+60	8	
R 17+81	14	
R 17+90	6	STUMP
NON-PARTICIPATING RD. TOTAL	154	

LOCATION	EACH
L 14+54.91 - 14+79.91	1
R 14+54.91 - 14+79.91	1
L 15+74.09 - 15+99.09	1
R 15+74.09 - 15+99.09	1
TOTAL	4 EACH

LOCATION	LIN FT
PARTICIPATING	
L 14+79.91 - 14+92.41	12.5
R 14+79.91 - 14+92.41	12.5
L 15+61.59 - 15+74.09	12.5
R 15+61.59 - 15+74.09	12.5
TOTAL	50 LIN FT

LOCATION	EACH
L 14+92.41 - 15+05.67	1
R 14+92.41 - 15+05.67	1
L 15+48.33 - 15+61.59	1
R 15+48.33 - 15+61.59	1
TOTAL	4 EACH

LOCATION	EACH
NON-PARTICIPATING	
R 11+27	1
L 16+30	1
TOTAL	2 EACH

LOCATION	EACH
NON-PARTICIPATING	
R 12+20	1
TOTAL	1 EACH

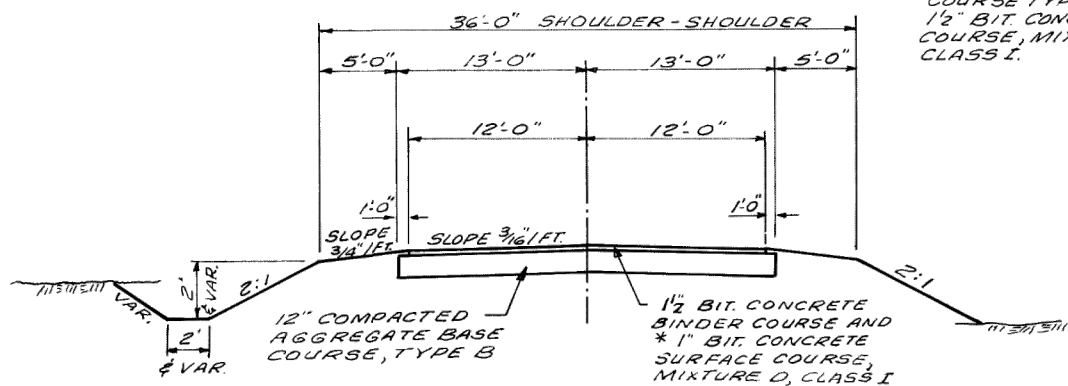
LOCATION	SQ FT
PARTICIPATING	
L 14+74 - 15+05.67	170
L 15+48.33 - 16+15	340
BRIDGE TOTAL	510 SQ FT

LOCATION	BIT. CONCRETE BINDER COURSE	BIT. CONCRETE SURF. CRSE. MIX. D. CL. I
NON-PARTICIPATING		
12+00 - 14+50	60 TON	40 TON
R & L 12+45 (INTERSECTION)	20 TON	13 TON
R 13+17 (ENTRANCE)		2 TON
16+15 - 18+15	48 TON	32 TON
TOTALS	128 TON	87 TON
PARTICIPATING		
14+50 - 15+05.67	13 TON	9 TON
15+48.33 - 16+15	16 TON	11 TON
BRIDGE		15 TON
TOTALS	29 TON	35 TON

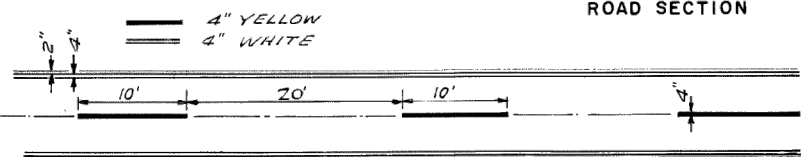
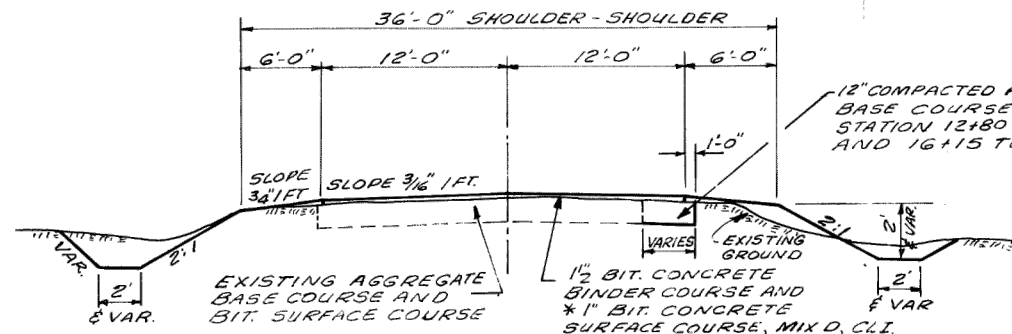
LOCATION	SQ YD
NON-PARTICIPATING	
12+00 - 12+15	37
RADIUS R 12+30	8
RADIUS R 12+65	22
RADIUS L 12+65	10
18+00 - 18+15	43
TOTAL	120 SQ YD

LOCATION	EACH
NON-PARTICIPATING	
L 12+34	1
TOTAL	1 EACH

TYPICAL SECTIONS AND SCHEDULES
 SECTION 85-00139-00-BR
 SEATONVILLE
 BUREAU COUNTY
 CONTRACT NO. 87781



*NOTE COARSE AGGREGATE FOR BIT. CONCRETE SURFACE COURSE; MIXTURE D, CLASS I SHALL CONFORM TO CA 16 OF ARTICLE 704.0(C) OF THE STANDARD SPECIFICATIONS.



PAINT 4" (PARTICIPATING = 390 LIN. FT.) (NON-PARTICIPATING = 1070 LIN. FT.)
 MARKING (PARTICIPATING = 39 LIN. FT.) (NON-PARTICIPATING = 107 LIN. FT.)
 TAPE

LOCATION	12"	24"	REMARKS
PARTICIPATING			
R 14+85		20 LIN. FT.	(67°-30' PIPE BEND REQ'D.)
L 14+85	32 LIN. FT.		
L 15+65		70 " "	(67°-30' PIPE BEND REQ'D.)
R 15+75		48 " "	
TOTAL	32 LIN. FT.	138 LIN. FT.	
NON-PARTICIPATING			
R 13+17	28 LIN. FT.		

SEEDING CLASS II, SPECIAL

	SEEDING CLASS II	NITROGEN FERT. NUTR.	PHOSPHORUS FERT. NUTR.	POTASSIUM FERT. NUTR.	MULCH METHOD 7
PARTICIPATING					
14+50-16+15	0.13 ACRE	10 LB.	10 LB.	10 LB.	195 LB.
NON-PARTICIPATING					
12+00-14+50 & 16+15-18+15	0.30 ACRE	24 LB.	24 LB.	24 LB.	450 LB.

(INCLUDES DITCH 10+46-12+00)

LOCATION	TON
PARTICIPATING	
14+50 - 15+05.67	110
15+48.33 - 16+15	132
TOTAL	242 TON
NON-PARTICIPATING	
12+80 - 14+50	39
16+15 - 18+00	42
TOTAL	81

LOCATION	GAL.
NON-PARTICIPATING	
12+00 - 14+50	35
R & L 12+45 (INTERSECTION)	11
16+15 - 18+15	28
ENT. R 13+17	21
TOTAL	95
PARTICIPATING	
14+50 - 15+05.67	81
15+48.33 - 16+15	96
TOTAL	177

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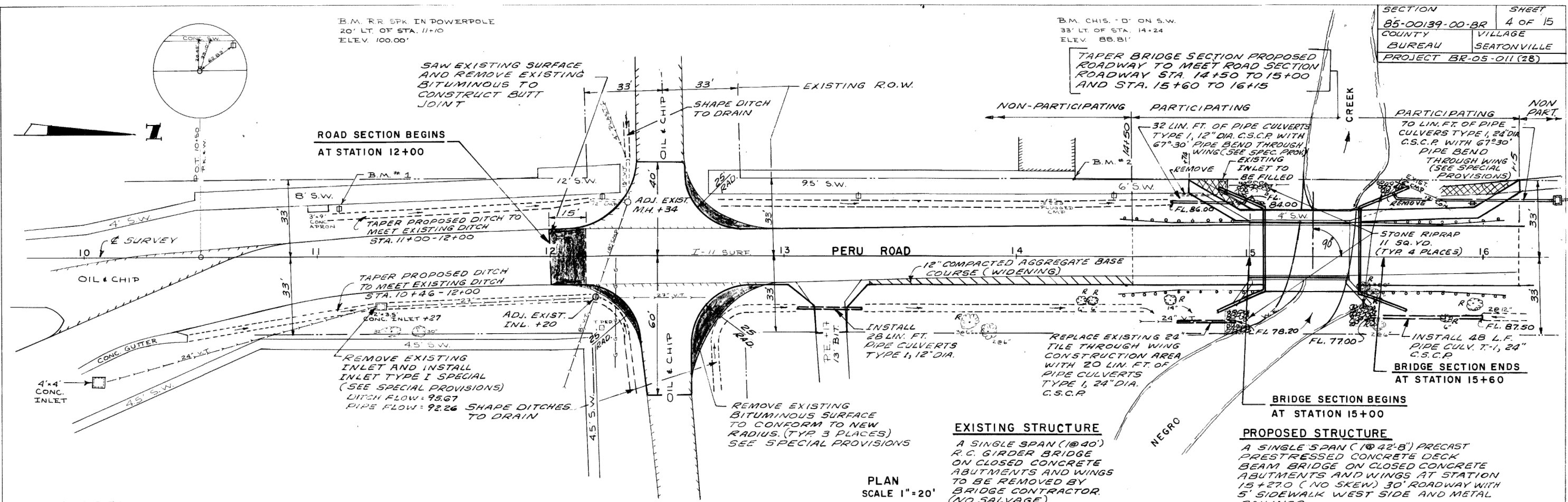
REVISIONS	LEVEL	BY	DATE	DESCRIPTION

PERU MORRIS
 OTTAWA MENDOTA
 ILLINOIS

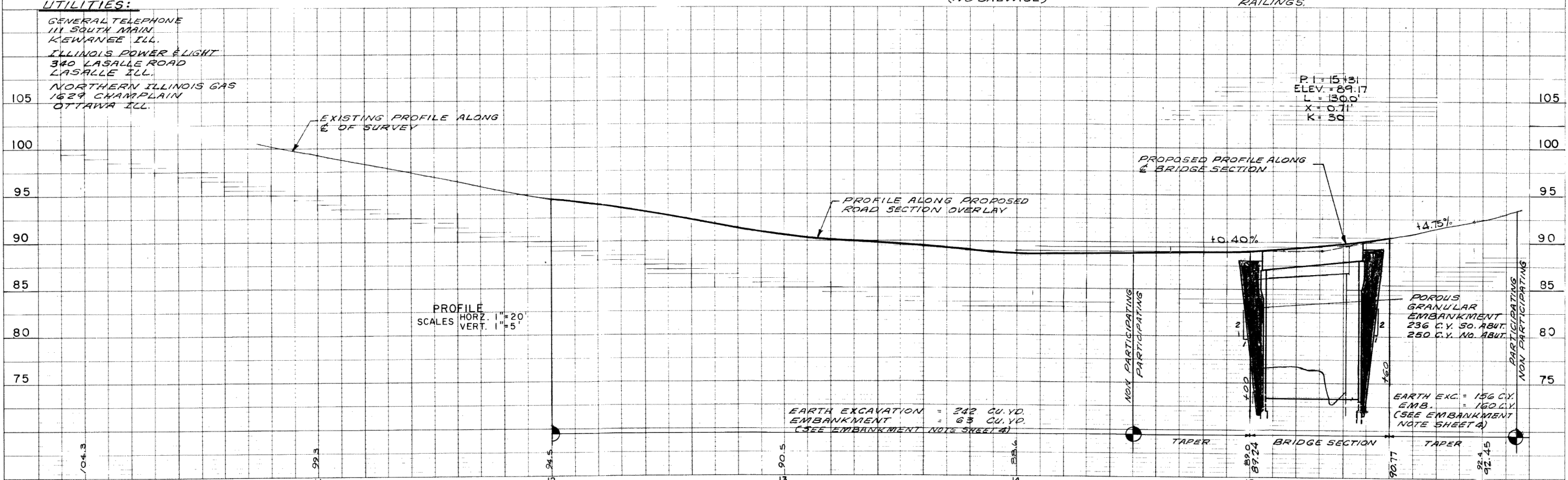
VILLAGE OF SEATONVILLE
 PERU ROAD BRIDGE REPAIR
 SECTION 20-0008-00-BR

EXISTING PLANS
 FOR INFORMATION ONLY

CONSTRUCTION PLANS
 CURRENT AS OF: 05/20/2021
 SCALE: AS NOTED SHEET 9
 FILE NO.: 11593.03 Y- OF 24



PLAN SCALE 1" = 20'



- UTILITIES:**
- GENERAL TELEPHONE
111 SOUTH MAIN
KEWANEE ILL.
 - ILLINOIS POWER & LIGHT
340 LASALLE ROAD
LASALLE ILL.
 - NORTHERN ILLINOIS GAS
1629 CHAMPLAIN
OTTAWA ILL.

EARTH EXCAVATION = 242 CU. YD.
 EMBANKMENT = 63 CU. YD.
 (SEE EMBANKMENT NOTE SHEET #4)

CONTRACT NO. 87781

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DATE: 2/2021					

PERU MORRIS
 OTTAWA MENDOTA
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VILLAGE OF SEATONVILLE
 PERU ROAD BRIDGE REPAIR
 SECTION 20-0008-00-BR

EXISTING PLANS
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CONSTRUCTION PLANS

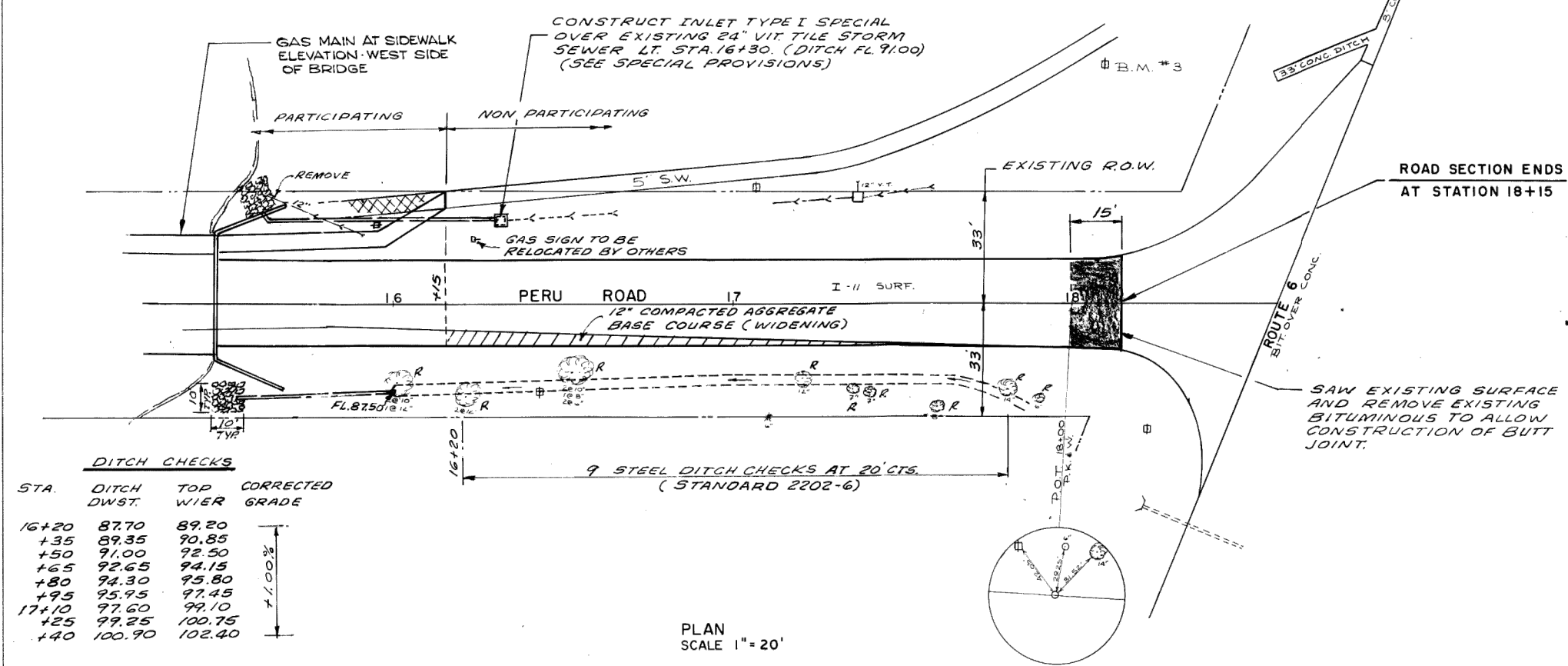
CURRENT AS OF: 05/20/2021

SCALE: AS NOTED SHEET 10

FILE NO.: 11593.03 Y- OF 24

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 by: Nancy Wilcox

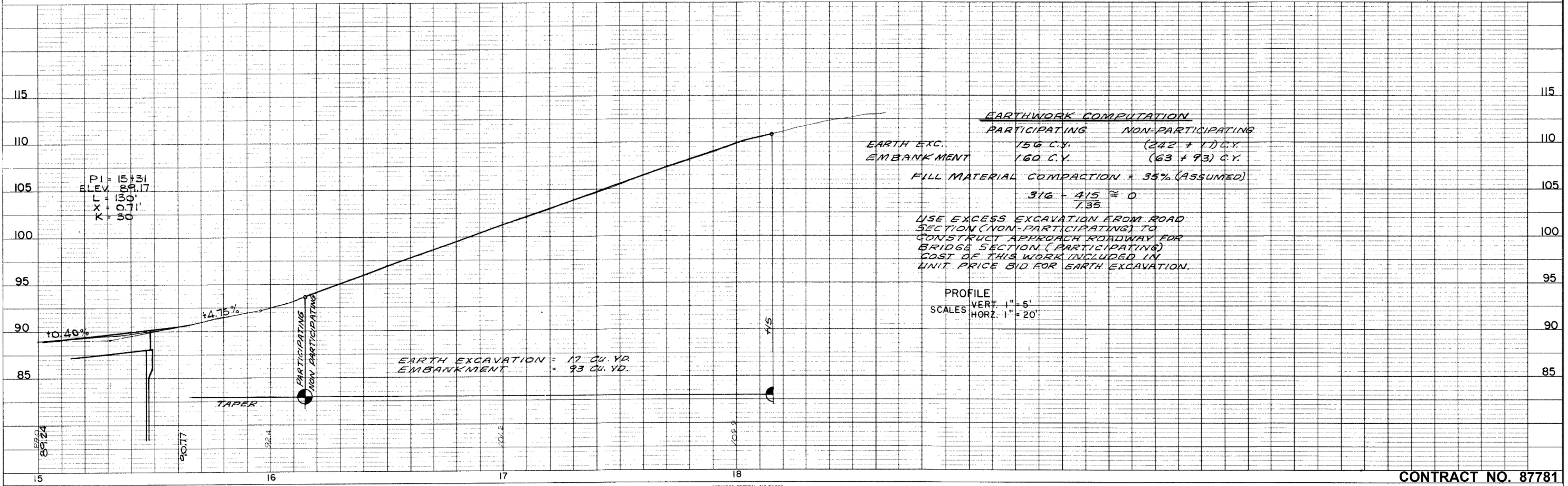
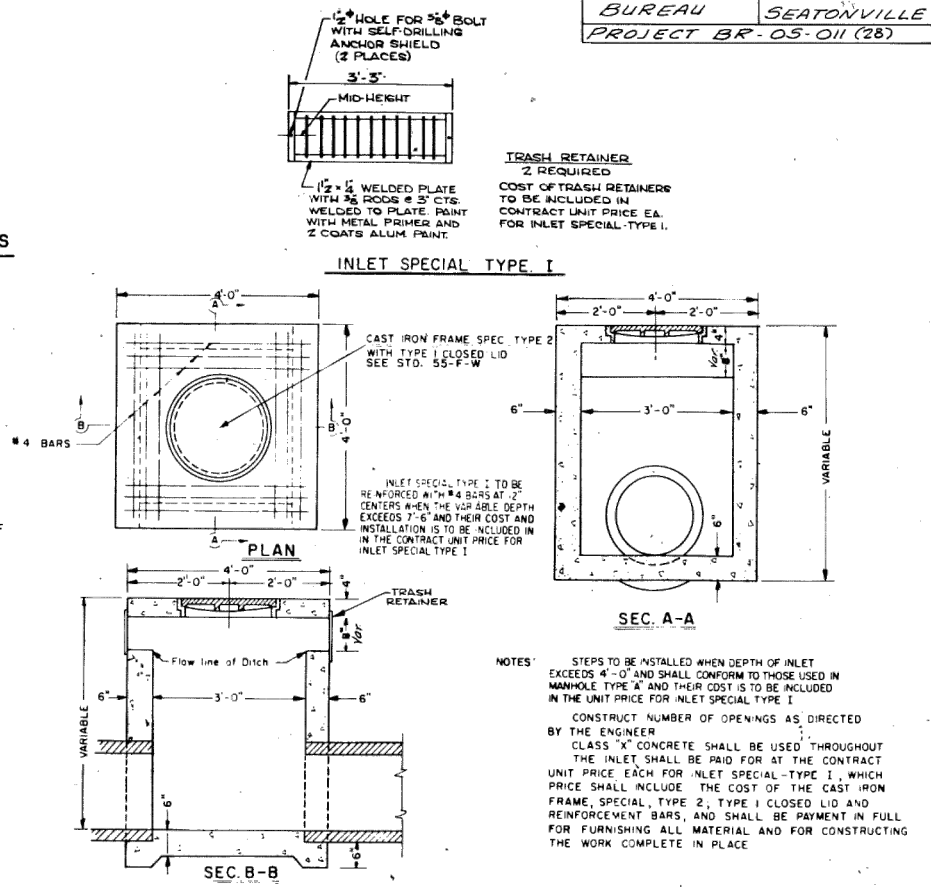
B.M. R.R. SPK. IN POWER POLE
70 FT. OF STA. 18+09
ELEV. 108.79'



DITCH CHECKS

STA.	DITCH DWST.	TOP WIER	CORRECTED GRADE
16+20	87.70	89.20	
+35	89.35	90.85	
+50	91.00	92.50	
+65	92.65	94.15	
+80	94.30	95.80	
+95	95.95	97.45	
17+10	97.60	99.10	
+25	99.25	100.75	
+40	100.90	102.40	

1.00%



CONTRACT NO. 87781

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CA
Chamlin & Associates

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OTTAWA MENDOTA
ILLINOIS

VILLAGE OF SEATONVILLE
PERU ROAD BRIDGE REPAIR
SECTION 20-0008-00-BR

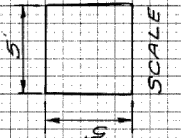
EXISTING PLANS
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CONSTRUCTION PLANS	CURRENT AS OF: 05/20/2021
	SCALE: AS NOTED
	SHEET 11
	FILE NO.: 11593.03 Y- OF 24

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SECTION	SHEET
85-00139-00-BR	6 OF 15
COUNTY	VILLAGE
BUREAU	SEATONVILLE
PROJECT BR-05-011 (28)	



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 ILLINOIS

VILLAGE OF SEATONVILLE
PERU ROAD BRIDGE REPAIR
SECTION 20-0008-00-BR

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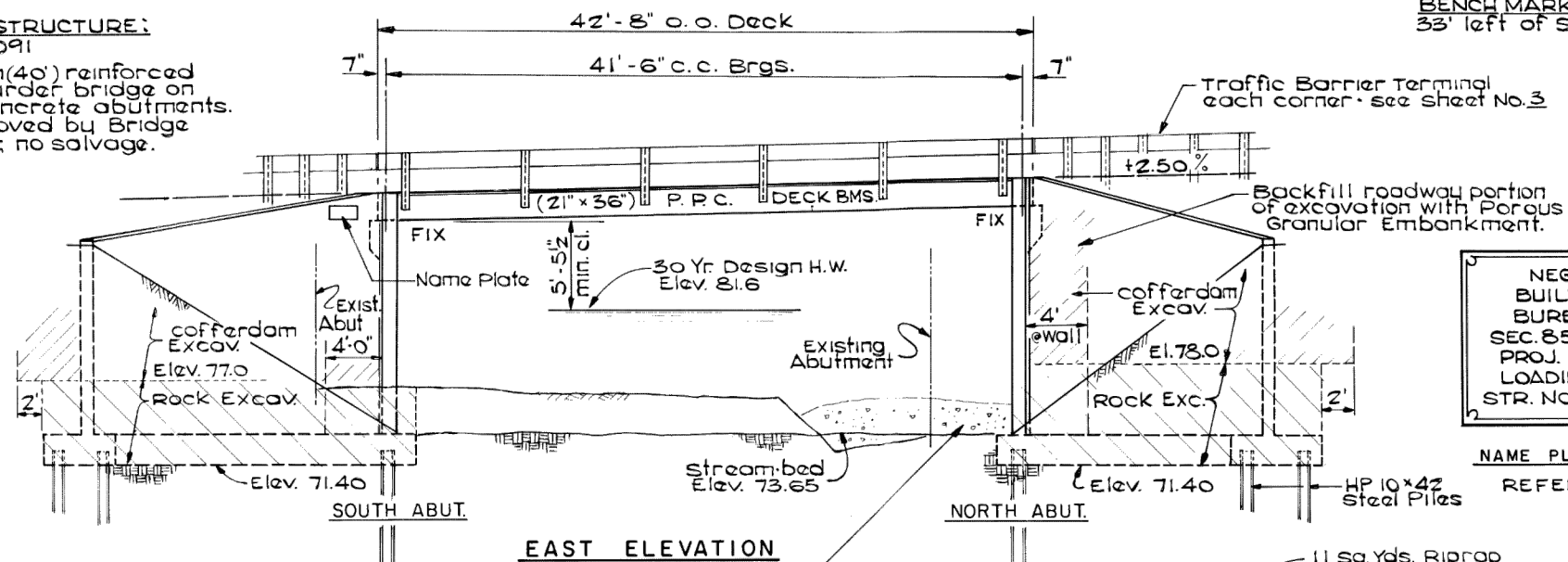
CONSTRUCTION
PLANS

CONTRACT NO. 87781	CURRENT AS OF: 05/20/2021
SCALE: AS NOTED	SHEET 12
FILE NO.: 11593.03 Y-	OF 24

EXISTING STRUCTURE:
No. 006-3091
A one span (40') reinforced concrete girder bridge on closed concrete abutments. To be removed by Bridge Contractor; no salvage.

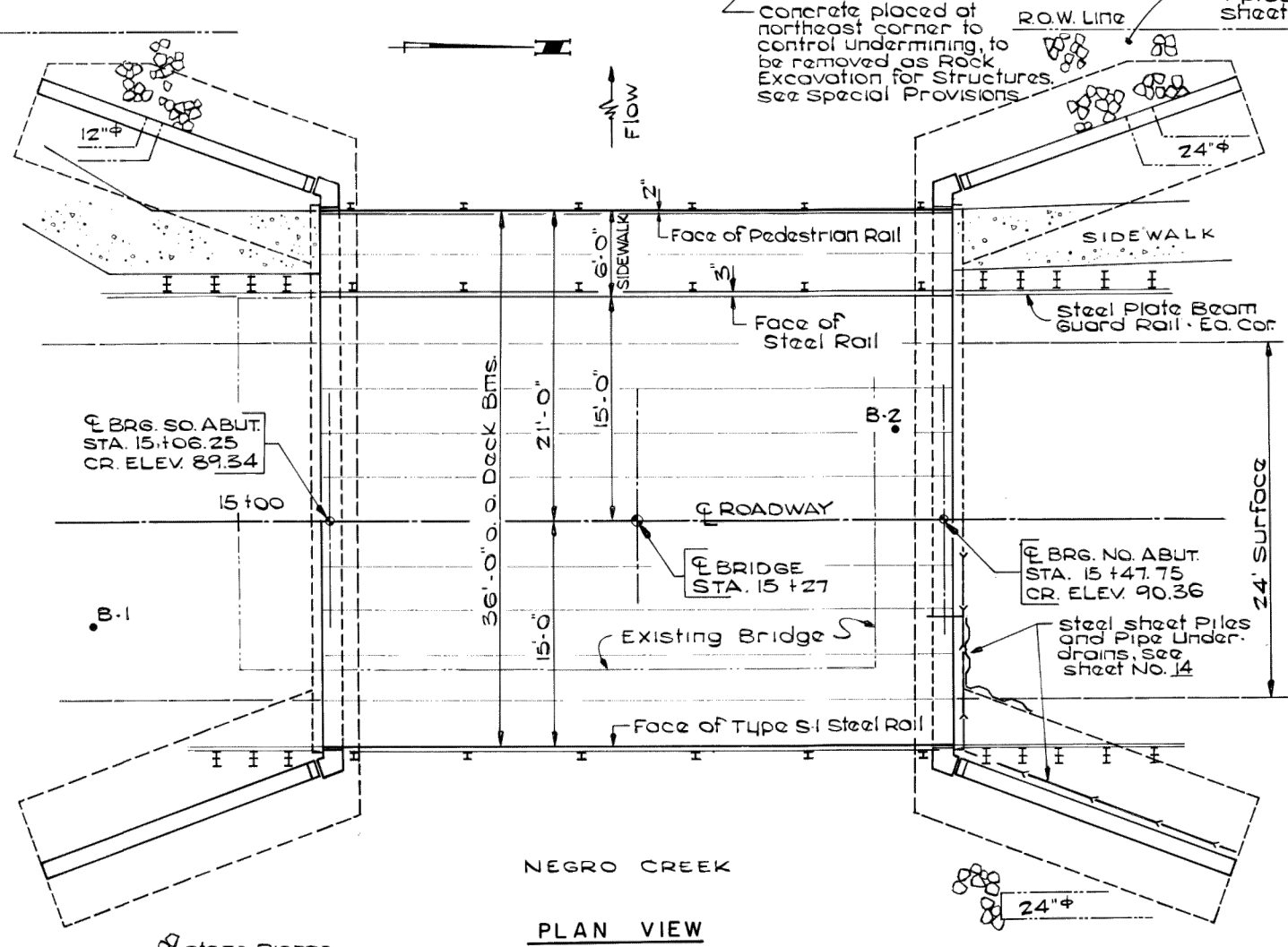
BENCH MARK: chiseled "m" on sidewalk
33' left of Station 14+24 Elev. 88.81

SECTION 85-00139-00-BR	SHEET 8 OF 15
COUNTY BUREAU	ROUTE C.H. 14 PERU ROAD
PROJECT BR-OS-011 (28)	



NEGRO CREEK
BUILT 198 BY
BUREAU COUNTY
SEC. 85-00139-00-BR
PROJ. BR-OS-011 (28)
LOADING HS 20
STR. NO. 006-6020

NAME PLATE LETTERING
REFER TO STD. 2113



LOADING HS 20-44
Includes allowance for 25 psf future wearing surface.

BILL OF MATERIAL - BRIDGE

ITEM	UNIT	SUB.	SUPER.	TOTAL
SEAL COAT CONCRETE	CU.YD.	5		5
SETTING PILES IN ROCK	EACH	50		50
CHANNEL EXCAVATION	CU.YD.	75		75
REMOVAL OF EXISTING STRUCTURES	EACH		1	1
COFFERDAM EXCAVATION	CU.YD.	360		360
ROCK EXCAVATION FOR STRUCTURES	CU.YD.	230.2		230.2
CLASS X CONCRETE	CU.YD.	172.8		172.8
PRECAST PRESTRESSED CONCRETE DECK BEAMS - 21" DEPTH	SQ.FT.		1536	1536
REINFORCEMENT BARS	POUND	15310		15310
NAME PLATES	EACH	1		1
STEEL RAILING, TYPE S-1	LIN.FT.		43	43
STEEL RAILING	LIN.FT.		43	43
PEDESTRIAN RAIL	LIN.FT.		43	43
COFFERDAMS	EACH	2		2
POROUS GRANULAR EMBANKMENT	CU.YD.	436		436
PIPE UNDERDRAINS - 6" DIA.	LIN.FT.	38		38
STEEL PILES HP 10x42	LIN.FT.	288		288
TEST PILES - STEEL PILES HP10x42	EACH	2		2
METAL SHOES	EACH	48		48
STEEL SHEET PILING	SQ.FT.	80		80
PORTLAND CEMENT MORTAR FAIRING COURSE	LIN.FT.		470	470
WATERPROOFING MEMBRANE SYSTEM	SQ.YD.		171	171
BIT CONC. SURFACE COURSE; MIX. D, CLASS I	TON		15	15

DESIGN STRESSES

SHOP (PRESTR. BEAMS)
f'c = 5,000 psi
f'ci = 4,000 psi
f's = 270,000 psi } 1/2" strands
f'si = 189,000 psi }
FIELD (LOAD FACTOR)
fy = 60,000 psi
fc = 3500 psi
vc = 118 psi
n = 9 Use for serviceability requirement

GENERAL NOTES

See Proposal for Boring Data.
Backfill shall be placed behind abutments after deck beams are in place. See Article 502.11 of the standard specifications.
cost of excavation behind existing abutments under proposed bridge is considered incidental to Removal of Existing structures.
Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.

WATERWAY INFORMATION

DRAINAGE AREA 17.12 SQ. MI.		LOW GRADE ELEV. 88.6 @ STA. 14+00							
FLOOD	FREQ. YR.	Q. C.F.S.	OPEN. EXIST.	SQ. FT. PROP.	NAT. H.W.E.	HEAD - FT. EXIST.	PROP.	HEADWATER EL. EXIST.	PROP.
DESIGN	30	2335	245	318	81.6	1.6	1.0	83.2	82.6
BASE	100	2978	270	354	82.5	2.2	1.3	84.7	83.8
OVERTOPPING									
MAX. CALCULATED									

NOTE

Structure designed in accordance with AASHTO specifications dated 1983 and interim Spec's. through 1985.

"I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS BRIDGE DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT 'AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES'."

SECTION 85-00139-00-BR
CO. HIGHWAY 14 (PERU ROAD) OVER NEGRO CREEK
BUREAU COUNTY

GENERAL PLAN AND ELEVATION

DESIGNED BY
S. THOMPSON
DATE JAN. 1986

CHECKED BY
D.E. HUFFMAN
DATE JAN. 1986

DRAWN BY
R. RHODES
DATE JAN. 1986

WILLET
HOFMANN &
ASSOCIATES, Inc.
Consulting Engineers

CONTRACT NO. 87781

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Drawing Name: G:\Users\111193\OneDrive - Chamlin & Associates\Documents\2017-2018\Bridges\Peru Road Bridge\2021\2021-03-03-Peru Road Bridge\2021-03-03-Peru Road Bridge.dwg
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by: Nancy Wilcox

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DATE: 2/2021					

PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

VILLAGE OF SEATONVILLE
PERU ROAD BRIDGE REPAIR
SECTION 20-0008-00-BR

EXISTING PLANS
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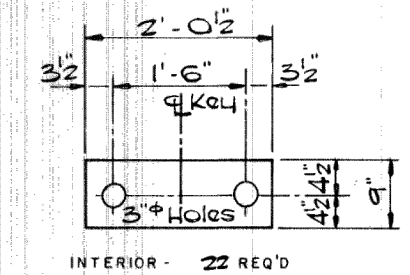
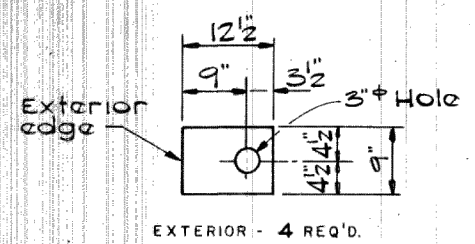
CONSTRUCTION
PLANS

CURRENT AS OF: 05/20/2021

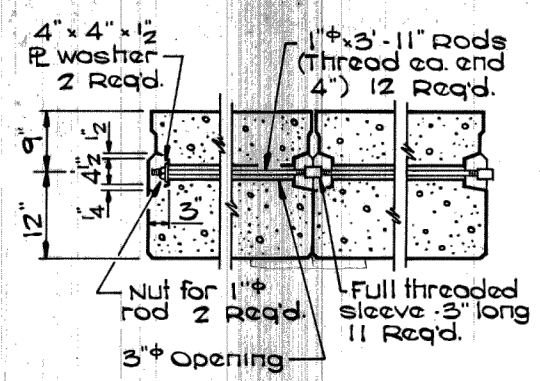
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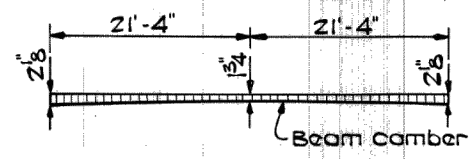
SHEET 14



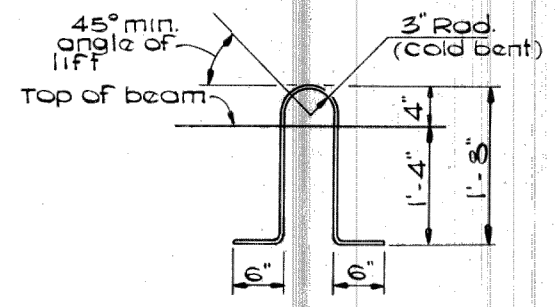
1/2" FABRIC BEARING PADS



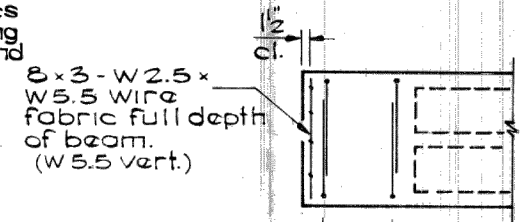
TRANSVERSE TIE ASSEMBLY



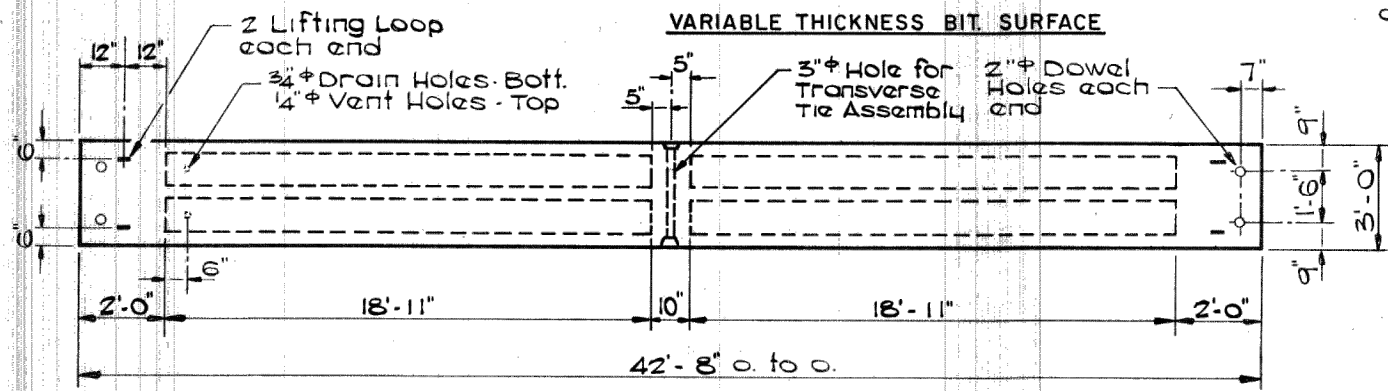
VARIABLE THICKNESS BIT SURFACE



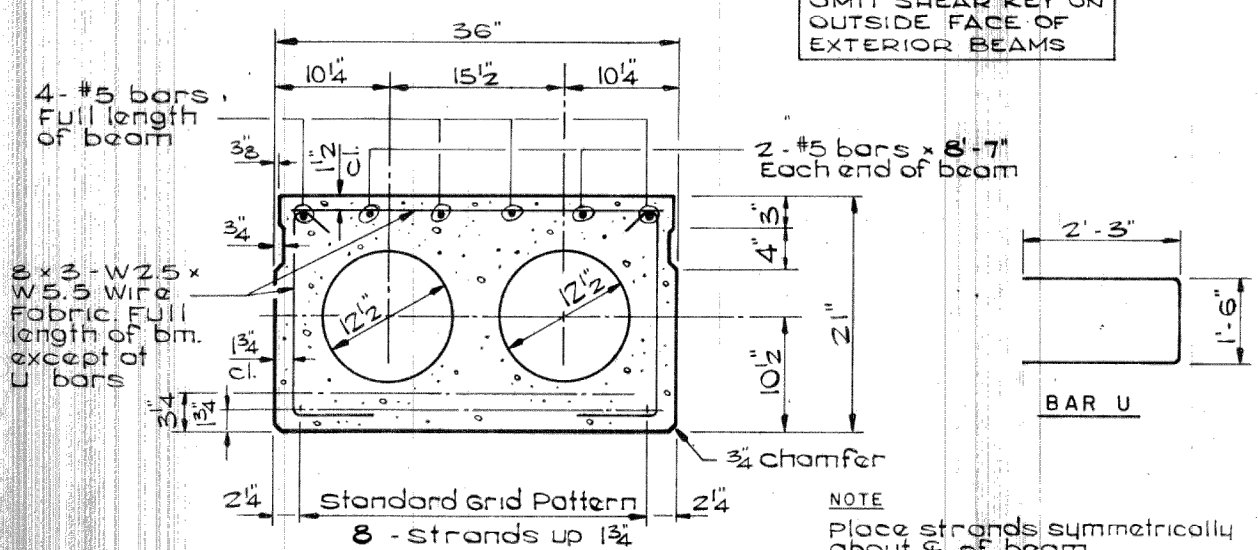
LIFTING LOOP DETAIL



END REINFORCEMENT



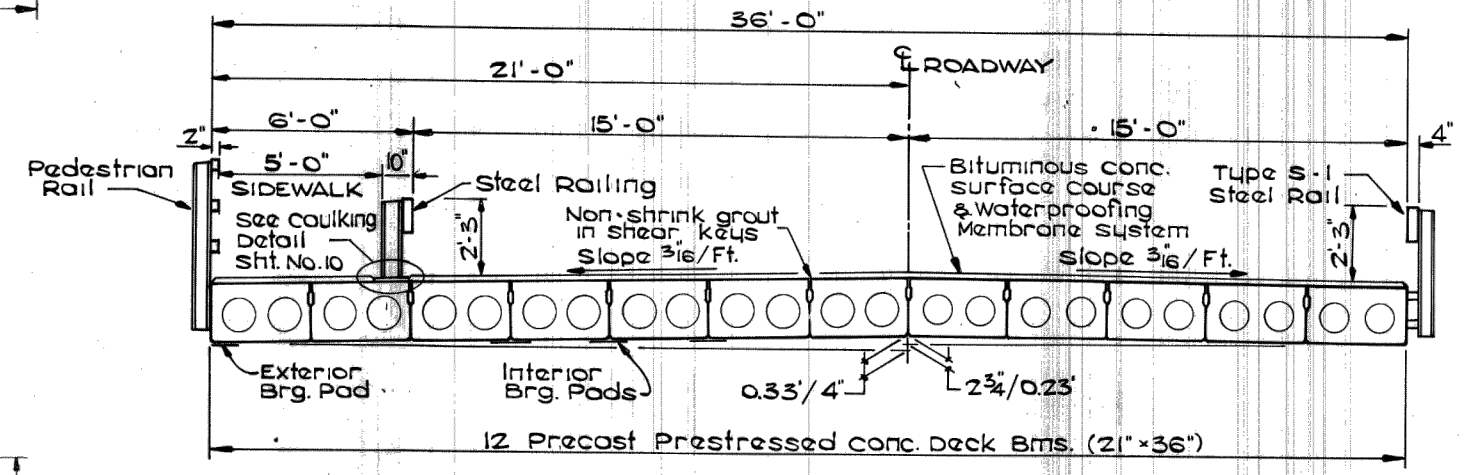
PLAN OF BEAM
12 REQUIRED



CROSS SECTION

OMIT SHEAR KEY ON OUTSIDE FACE OF EXTERIOR BEAMS

NOTE
Place strands symmetrically about center of beam.
1/2" strands, each strand stressed to 28,900 lbs.
Required release strength, f_{cr} = 4,000 lbs.



SECTION THRU DECK
LOOKING NORTH

BILL OF MATERIAL

ITEM	QUANT.
PRECAST PRESTRESSED CONC. DECK BMS - 21" SQ. FT.	1536
PORTLAND CEMENT MORTAR FAIRING COURSE	470 LIN. FT.
WATERPROOFING MEMBRANE SYSTEM	171 SQ. YD.
BITUMINOUS CONCRETE SURFACE COURSE, MIXTURE D; CL. I	15 TON

DECK BEAM DETAILS
SECTION 85-0039-00-BR
SEATONVILLE
BUREAU COUNTY

CONTRACT NO. 87781

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by: Nancy Wilcox

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DATE: 2/2021	BY
	DATE
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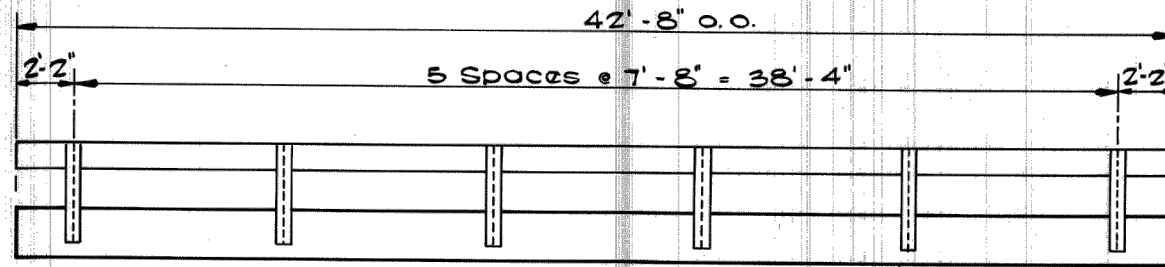
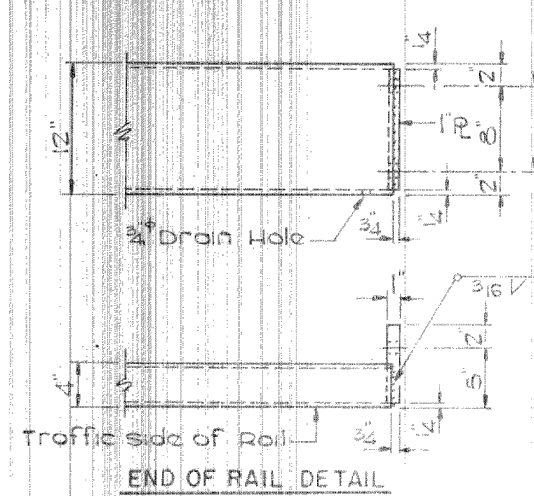
PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

VILLAGE OF SEATONVILLE
PERU ROAD BRIDGE REPAIR
SECTION 20-0008-00-BR

EXISTING PLANS
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CONSTRUCTION PLANS

CURRENT AS OF: 05/20/2021	
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FILE NO.: 11593.03 Y-	OF 24



ELEVATION - RAIL POST SPACING

NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A-500 Grade B Structural Steel Tubing.
 All other steel shapes and plates shall conform to the requirements of AASHTO M-183 except post and angles shall conform to AASHTO M-223, Grade 50.
 Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A-307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M-164.
 All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with AASHTO M-232.

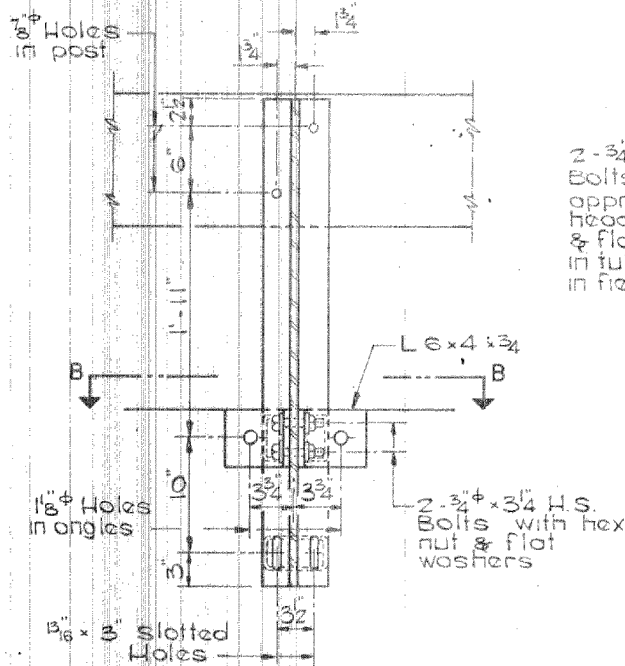
All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with AASHTO M-111 and ASTM A-385. Galvanized rail shall not be painted.

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

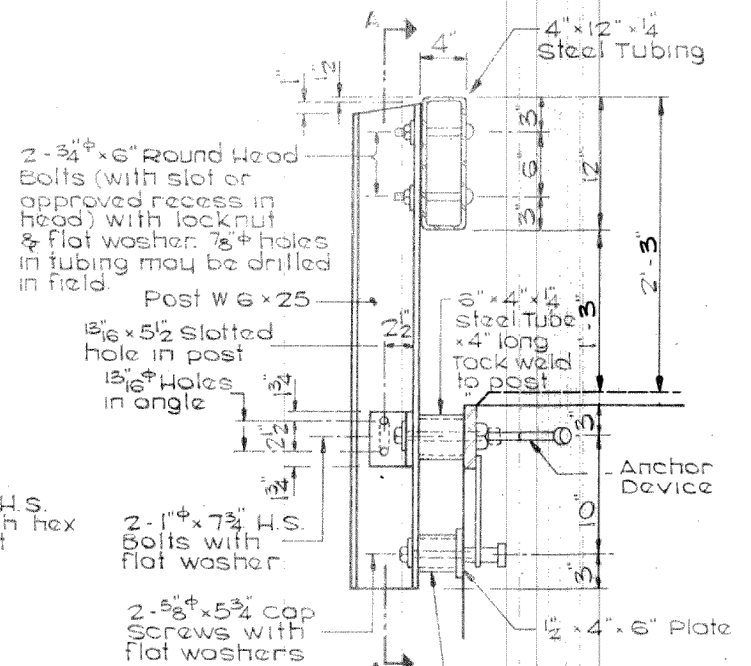
All field drilled holes shall be coated with an approved zinc rich paint before erection.

The portion of the spacer in contact with the concrete shall receive two coats of asphalt paint conforming to section 714.08 Type B or place 1/8 inch fabric bearing pad between the spacer and concrete.

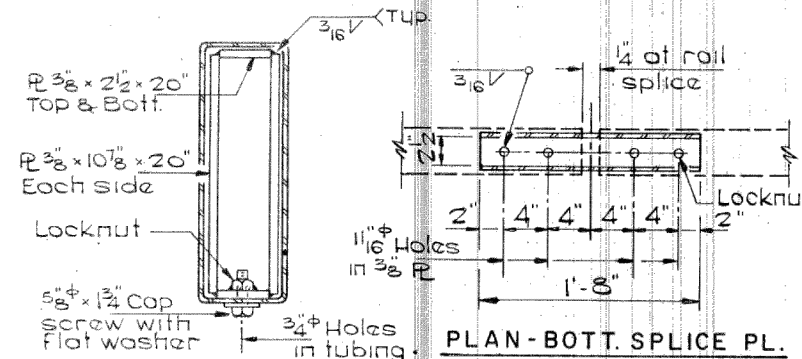
The 3/4 inch diameter high strength bolts used to connect the 6x4x24 angles to the post shall be tightened in accordance with Article 507.04 (g) (3) of the Standard Specifications. The 1 inch diameter high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/8 turn. The 5/8 inch diameter cap screws in bottom of posts shall be tightened to a snug fit only.



SECTION A-A



SECTION AT RAIL POST

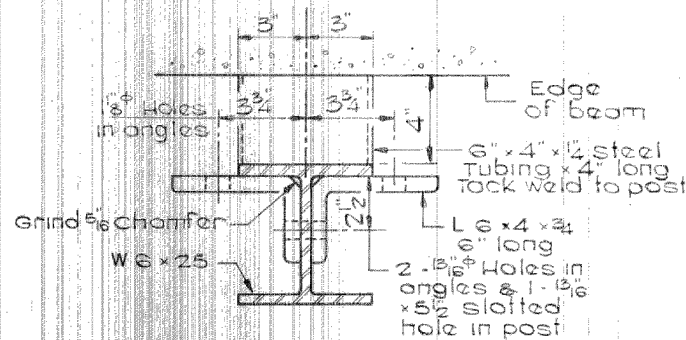


PLAN - BOTT. SPLICE PL.

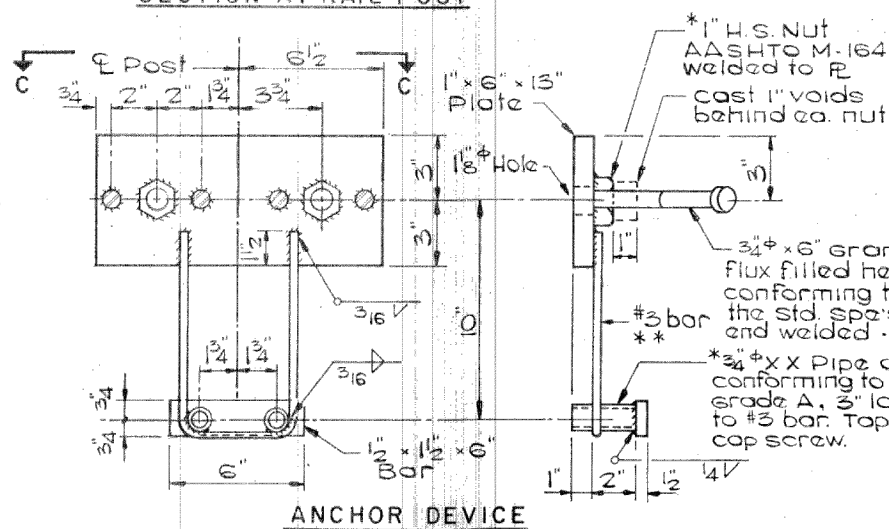
SECTION AT RAIL SPLICE

* Threaded areas shall be plugged or blocked off during casting of beam.

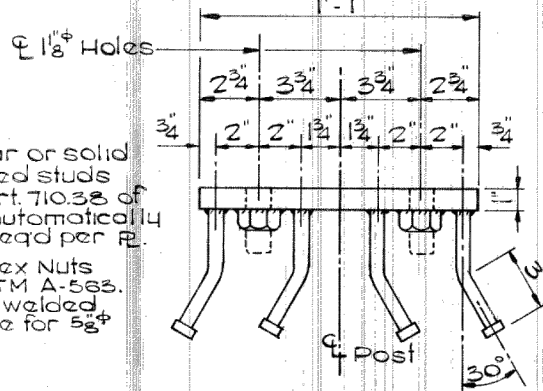
** Whenever the lower insert assemblies interfere with strand location, the #3 bar shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Max adjustment not to exceed 1/2 inch.



SECTION B-B



ANCHOR DEVICE



SECTION C-C

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
STEEL RAILING, TYPE S-1	LIN. FT.	43

TYPE S-1 STEEL RAILING
 SECTION 85-00139-00-BR
 SEATONVILLE
 BUREAU COUNTY

CONTRACT NO. 87781

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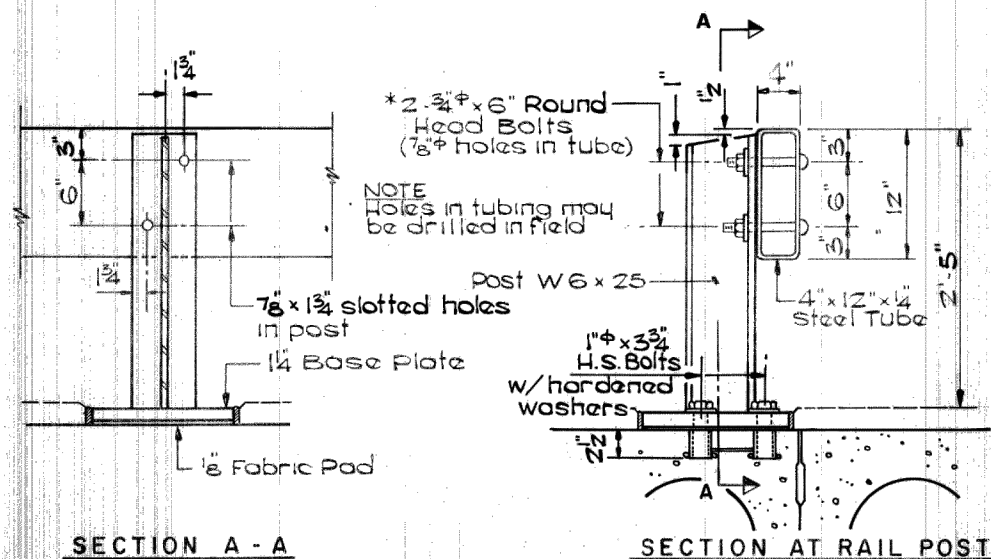
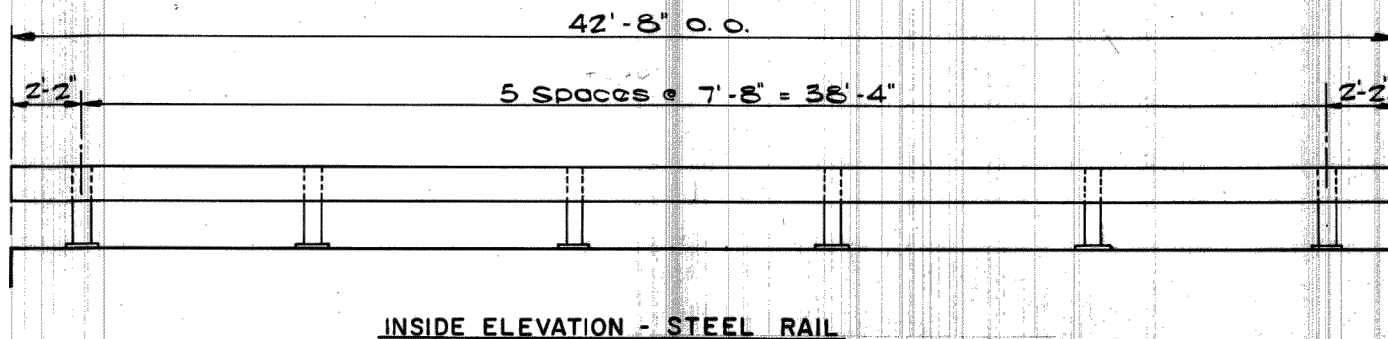
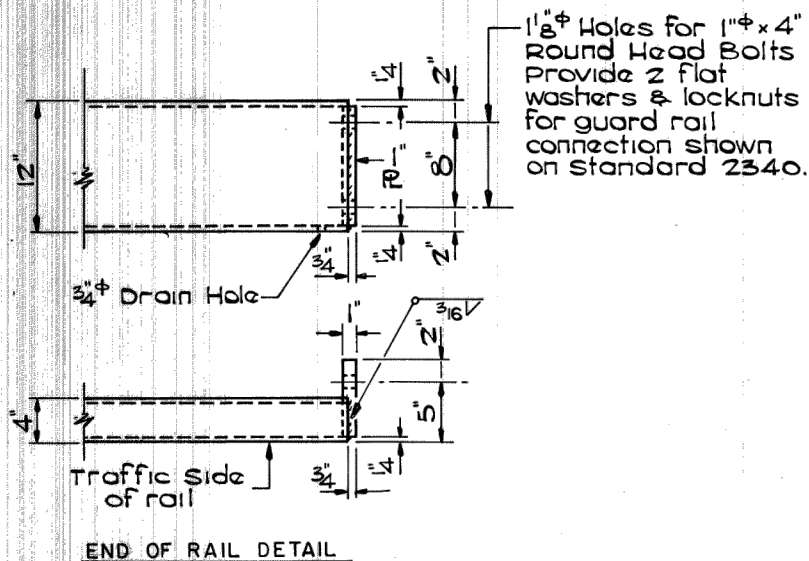
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 SECTION 20-0008-00-BR

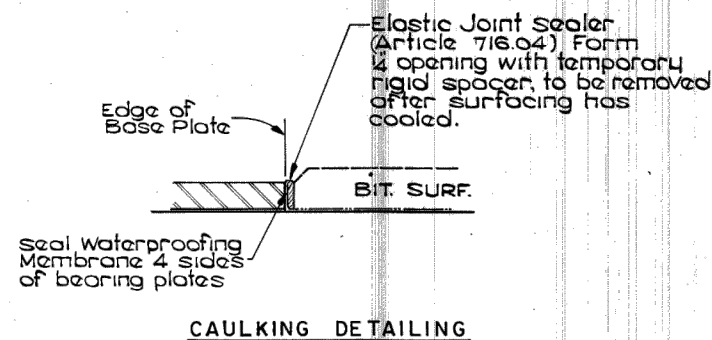
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CONSTRUCTION PLANS

CURRENT AS OF: 05/20/2021	SHEET 16
SCALE: AS NOTED	OF 24
FILE NO.: 11593.03 Y-	



* NOTE Round head bolts to have slot or approved recess in head and 1 locknut and 1 flat hardened washer per bolt.



NOTES

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

All other steel shapes and plates shall conform to the requirements of AASHTO M-183 except post and angles shall conform to AASHTO M-223, Grade 50.

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

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

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with AASHTO M-111 and ASTM A-365 galvanized rail shall not be painted.

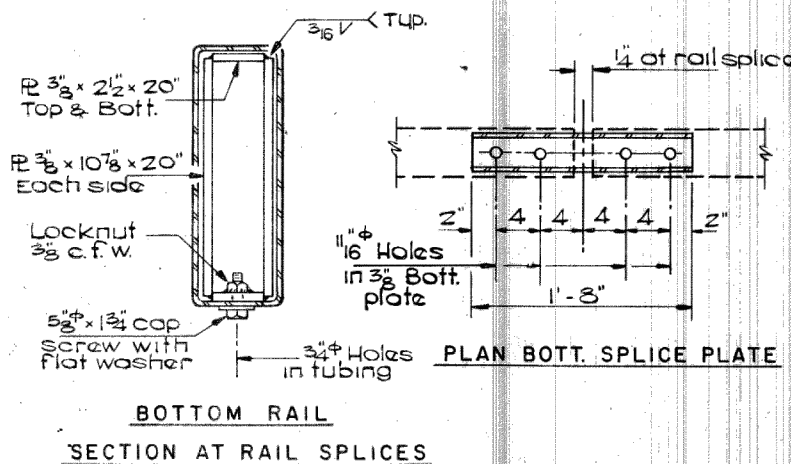
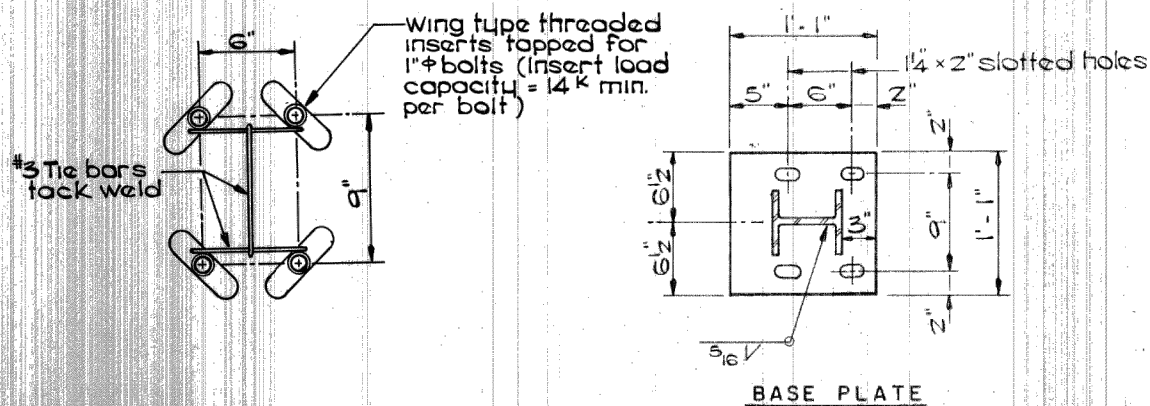
Railing shall be in accordance with section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per linear foot for STEEL RAILING.

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

The 1" ϕ high strength bolts shall be tightened in accordance with Article 507.04 (g) (3) of the Standard Specifications.

BILL OF MATERIAL

ITEM	QUANT.
STEEL RAILING	LIN. FT. 43



STEEL RAILING
 SECTION 85-00139-00-BR
 SEATONVILLE
 BUREAU COUNTY

CONTRACT NO. 87781

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 SECTION 20-00008-00-BR

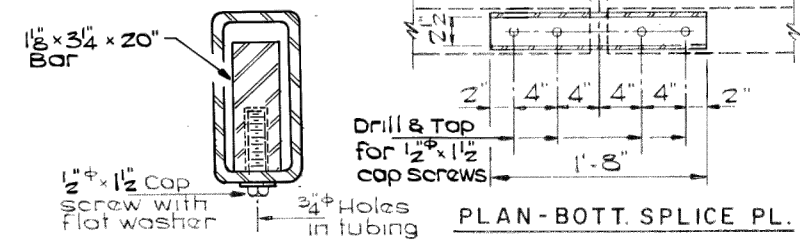
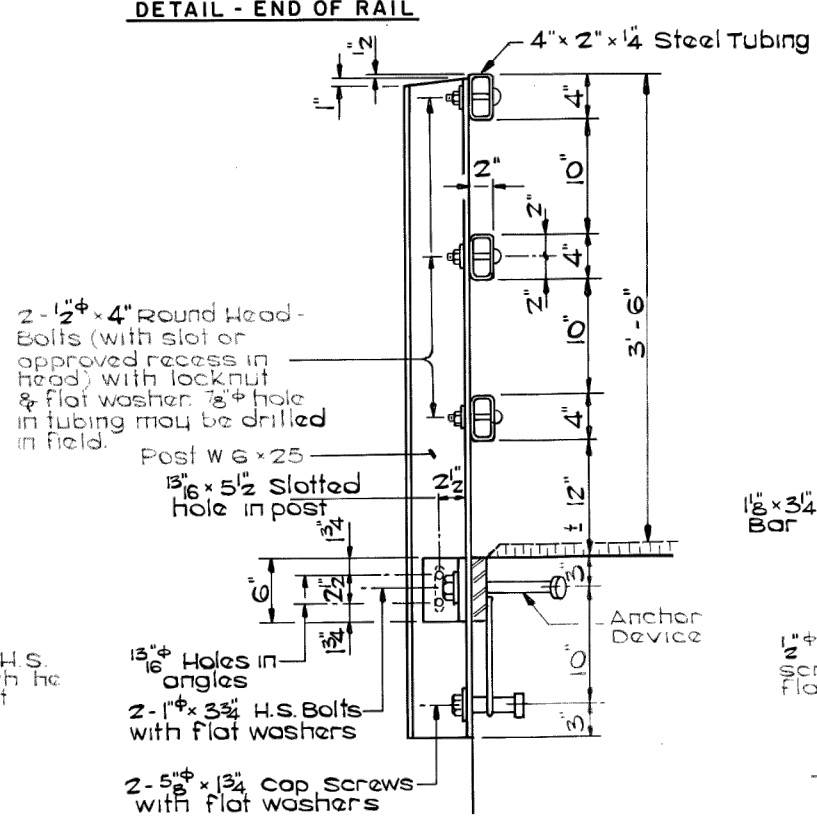
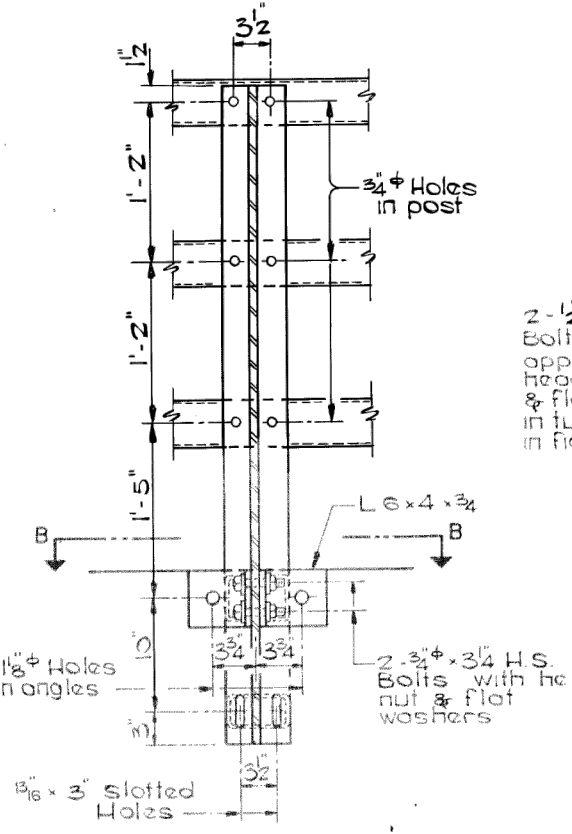
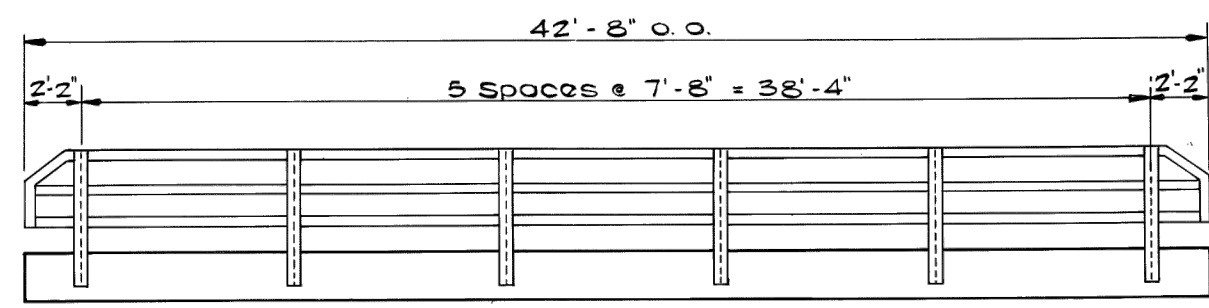
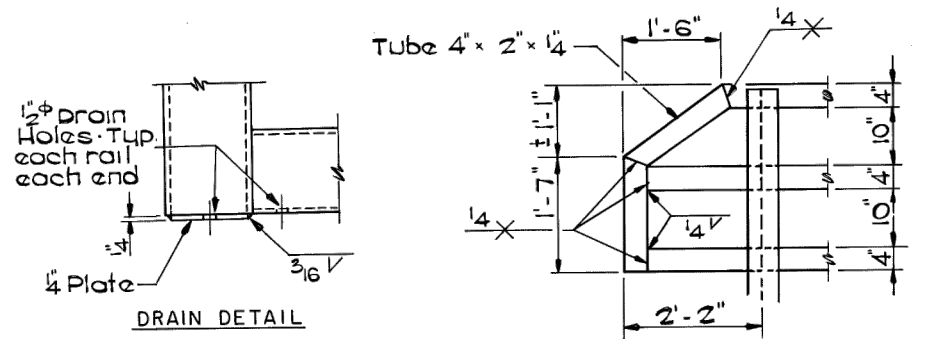
EXISTING PLANS
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CONSTRUCTION PLANS

CURRENT AS OF: 05/20/2021

SCALE: AS NOTED

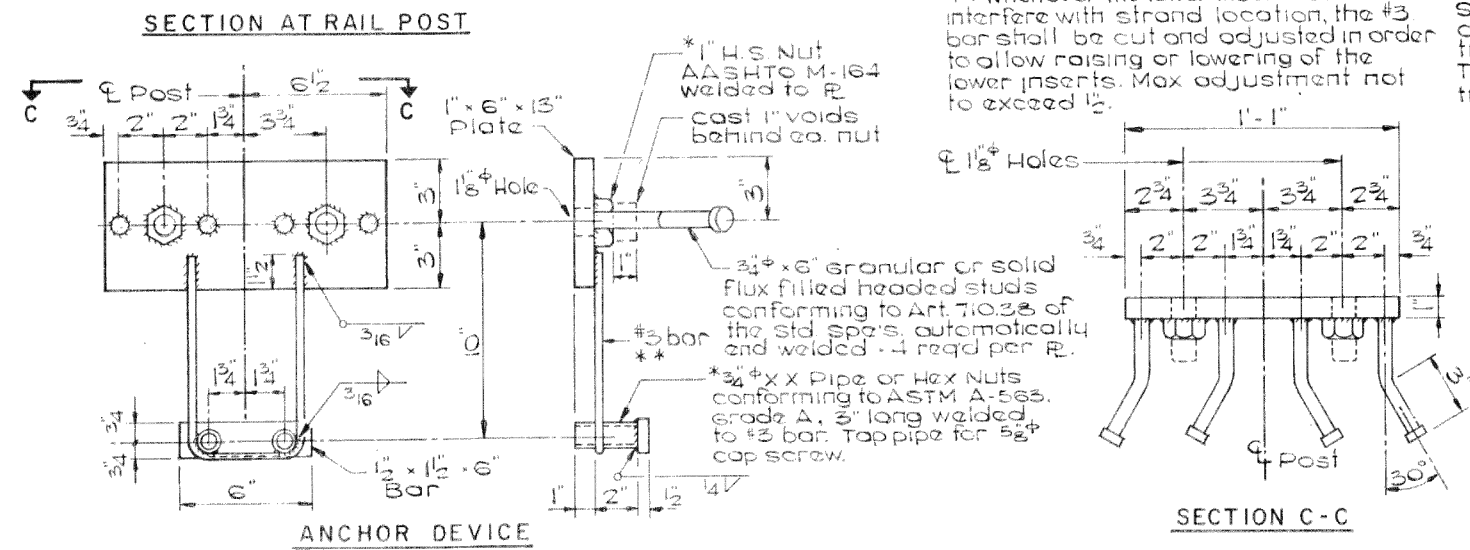
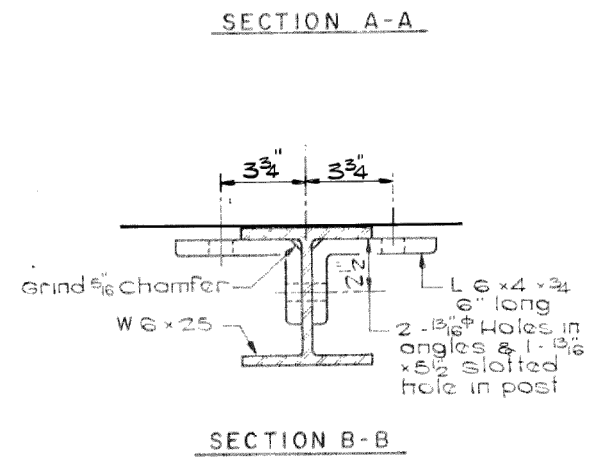
FILE NO.: 11593.03 Y- OF 24



NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A-500 Grade B Structural Steel Tubing.
 All other steel shapes and plates shall conform to the requirements of AASHTO M-183 except post and angles shall conform to AASHTO M-223, Grade 50 Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A-307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M-164.
 All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with AASHTO M-232.
 All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with AASHTO M-111 and ASTM A-385. Galvanized rail shall not be painted.
 Railing shall be in accordance with section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per linear foot for PEDESTRIAN RAIL.
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 The portion of the W6x25 post in contact with the concrete shall receive two coats of asphalt paint conforming to section 714.08 Type B or place 1/2 fabric bearing pad between the post and concrete.
 The 3/4 dia high strength bolts used to connect the 6x4x3/4 angles to the post shall be tightened in accordance with Article 507.04 (g) (3) of the Standard Specifications. The 1" dia high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/2 turn. The 5/8 cap screws in bottom of posts shall be tightened to a snug fit only.

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



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
PEDESTRIAN RAIL	LIN. FT.	43

PEDESTRIAN RAIL
 SECTION 85-00139-00-BR
 SEATONVILLE
 BUREAU COUNTY

CONTRACT NO. 87781

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 by: Nancy Wilova

REVISIONS	LEVEL	BY	DATE	DESCRIPTION

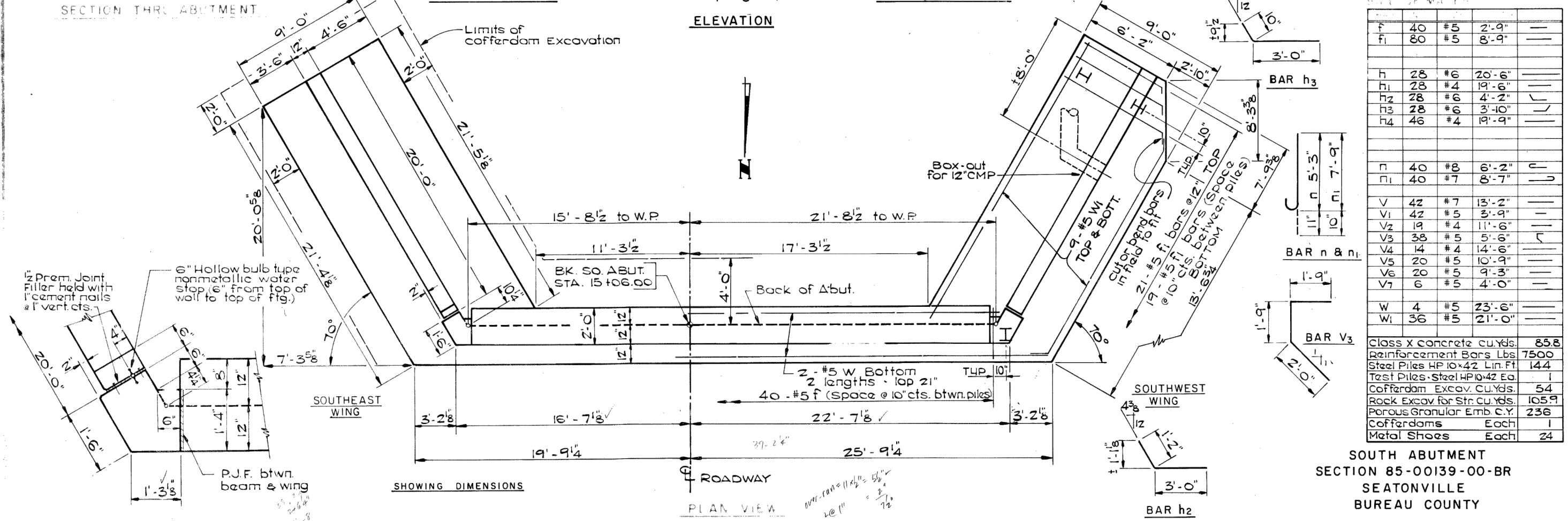
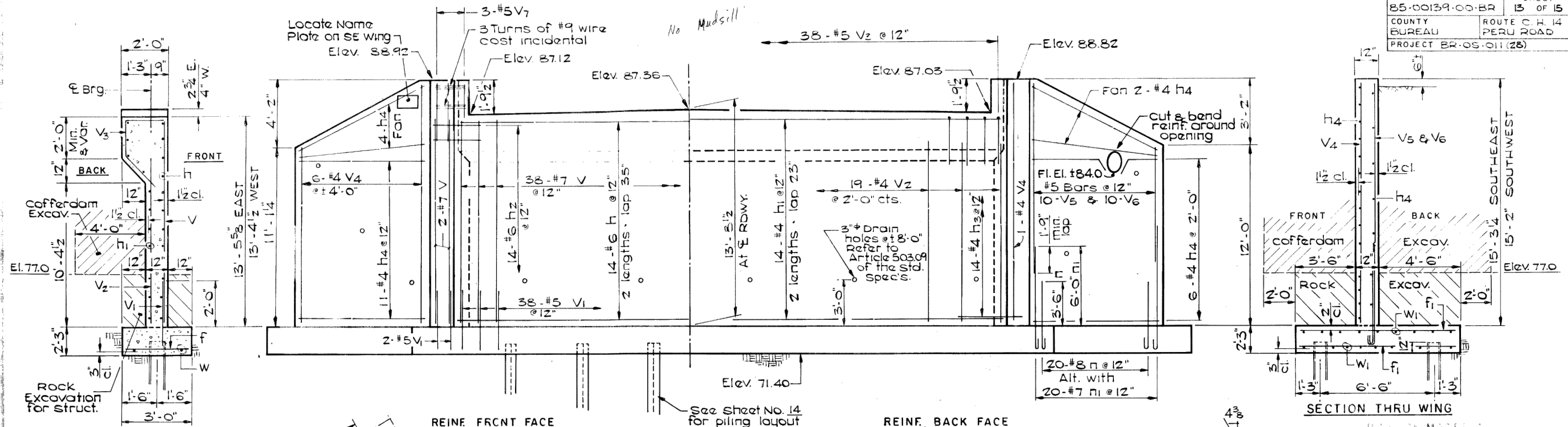
PERU MORRIS
 OTTAWA MENDOTA
 ILLINOIS

VILLAGE OF SEATONVILLE
PERU ROAD BRIDGE REPAIR
SECTION 20-00008-00-BR

EXISTING PLANS
FOR INFORMATION ONLY

CONSTRUCTION PLANS

CURRENT AS OF: 05/20/2021	SHEET 18
SCALE: AS NOTED	OF 24
FILE NO.: 11593.03 Y-	



Bar	Qty	Size	Length	Notes
f	40	#5	2'-9"	
f1	80	#5	8'-9"	
h	28	#6	20'-6"	
h1	28	#4	19'-6"	
h2	28	#6	4'-2"	
h3	28	#6	3'-10"	
h4	46	#4	19'-9"	
n	40	#8	6'-2"	
n1	40	#7	8'-7"	
v	42	#7	13'-2"	
v1	42	#5	3'-9"	
v2	19	#4	11'-6"	
v3	38	#5	5'-6"	
v4	14	#4	14'-6"	
v5	20	#5	10'-9"	
v6	20	#5	9'-3"	
v7	6	#5	4'-0"	
w	4	#5	23'-6"	
w1	36	#5	21'-0"	

Class X concrete	cu. Yds.	85.8
Reinforcement Bars	Lbs	7500
Steel Piles	HP 10x42 Lin. Ft	144
Test Piles	Steel HP 10x42 Ea.	1
Cofferdam Excav.	cu. Yds.	54
Rock Excav for Str.	cu. Yds.	105.9
Porous Granular Emb.	C.Y.	236
Cofferdams	Each	1
Metal Shoes	Each	24

SOUTH ABUTMENT
 SECTION 85-00139-00-BR
 SEATONVILLE
 BUREAU COUNTY

CONTRACT NO. 87781

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 by: Nancy Wilcox

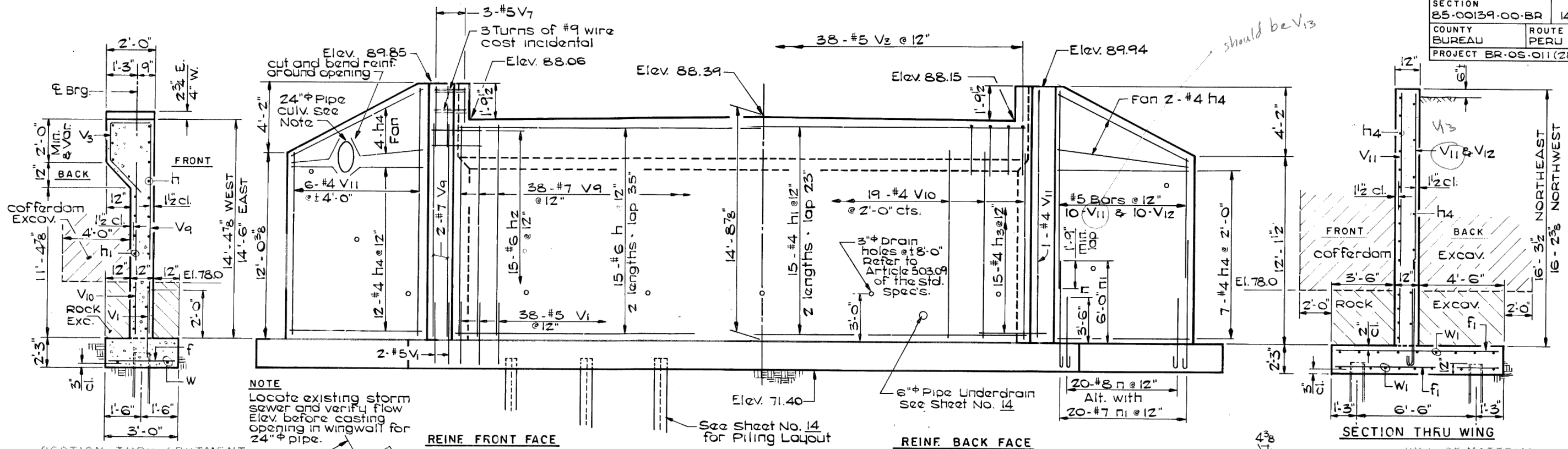
REVISIONS	LEVEL	BY	DATE	DESCRIPTION

PERU MORRIS
 OTTAWA MENDOTA
 ILLINOIS

VILLAGE OF SEATONVILLE
 PERU ROAD BRIDGE REPAIR
 SECTION 20-00008-00-BR

EXISTING PLANS
 FOR INFORMATION ONLY

CONSTRUCTION PLANS	CURRENT AS OF: 05/20/2021	SHEET 19
SCALE: AS NOTED	FILE NO.: 11593.03 Y-	OF 24



NOTE
Locate existing storm sewer and verify flow Elev. before casting. Opening in wingwall for 24" pipe.

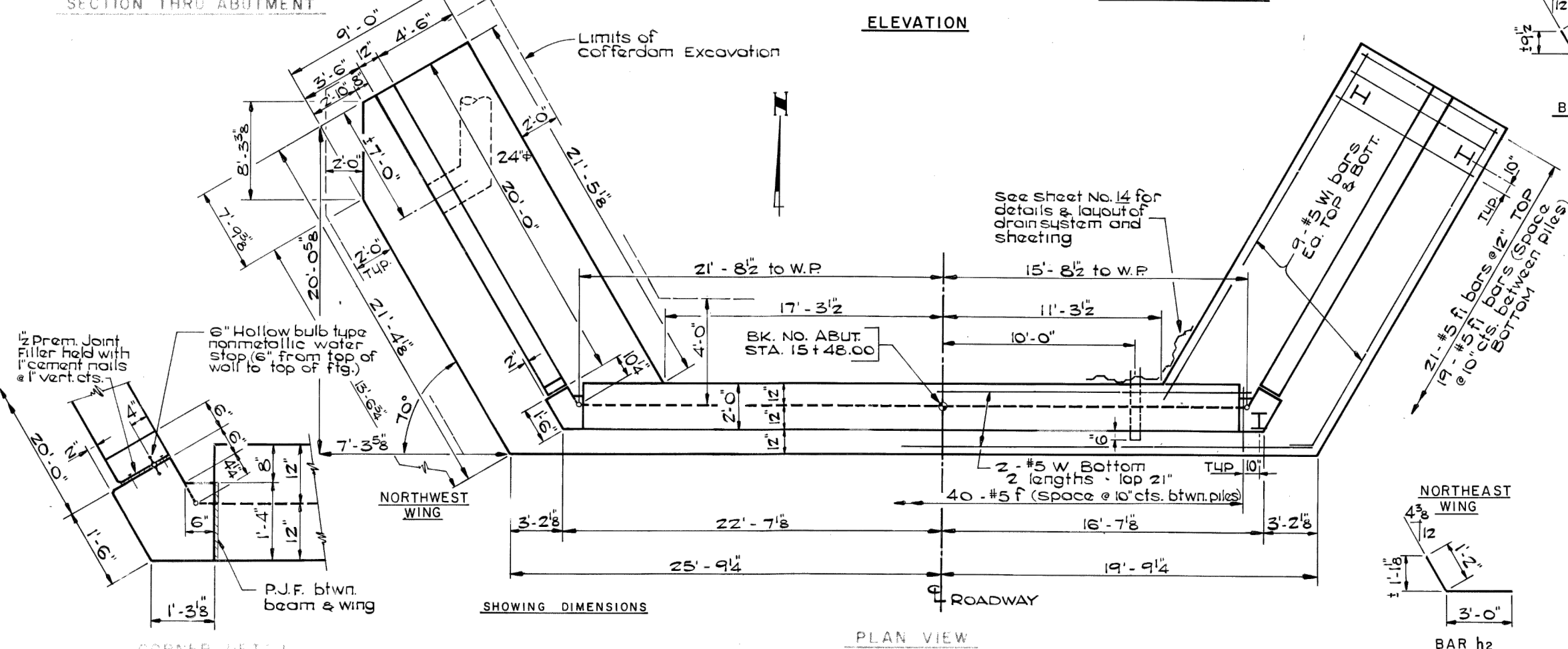
HILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
f	40	#5	2'-9"	—
f1	80	#5	8'-9"	—
h	30	#6	20'-6"	—
h1	30	#4	19'-6"	—
h2	30	#6	4'-2"	—
h3	30	#6	3'-10"	—
h4	50	#4	19'-9"	—
n	40	#8	6'-2"	—
n1	40	#7	8'-7"	—
V1	42	#5	3'-9"	—
V3	38	#5	5'-6"	—
V7	6	#5	4'-0"	—
V9	42	#7	14'-2"	—
V10	19	#4	12'-6"	—
V11	14	#4	16'-0"	—
V12	20	#5	11'-10"	—
V13	20	#5	9'-10"	—
W	4	#5	23'-6"	—
W1	36	#5	21'-0"	—

Class X concrete	cu. Yds.	87.0
Reinforcement Bars	Lbs.	7810
Steel Piles HP 10x42	Lin. Ft.	144
Test Piles Steel HP 10x42	Ea.	1
Cofferdam Excav.	cu. Yds.	306
Rock Excav. for Str. cu. Yds.		124.3
Porous Granular Emb.	C.Y.	250
Cofferdams	Each	1
Steel Sheet Piles	Sq. Ft.	80
Pipe Underdrains	Lin. Ft.	38
Metal Shoes	Each	24

NORTH ABUTMENT
SECTION 85-00139-00-BR
SEATONVILLE
BUREAU COUNTY

CONTRACT NO. 87781



PLAN VIEW

CORNER DETAIL

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DATE: 2/2021	BY
	DATE
	DESCRIPTION

PERU MORRIS
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ILLINOIS

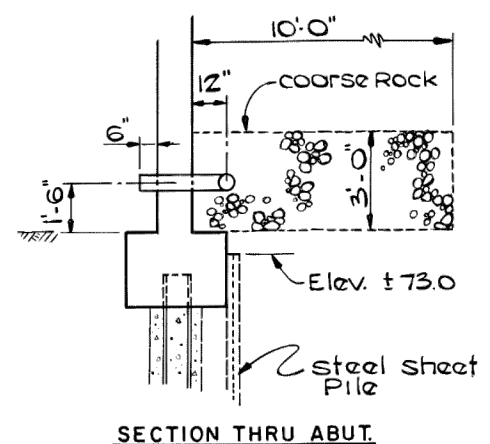
VILLAGE OF SEATONVILLE
PERU ROAD BRIDGE REPAIR
SECTION 20-0008-00-BR

EXISTING PLANS
FOR INFORMATION ONLY

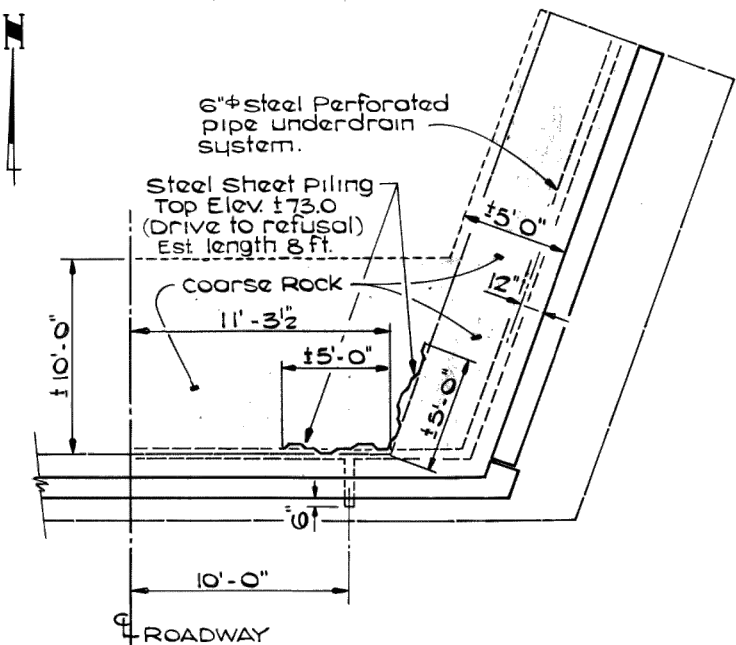
CONSTRUCTION PLANS	CURRENT AS OF: 05/20/2021
	SCALE: AS NOTED
	SHEET 20
	FILE NO.: 11593.03 Y- OF 24

9/11/87

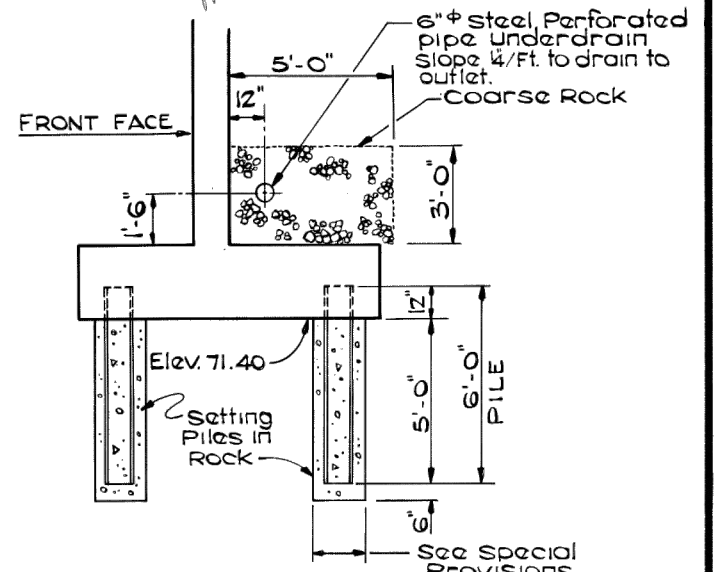
① No Spring Run-off from mine shaft
 ② No 5' up from foundation is hard rock area & surface water runs off into this area



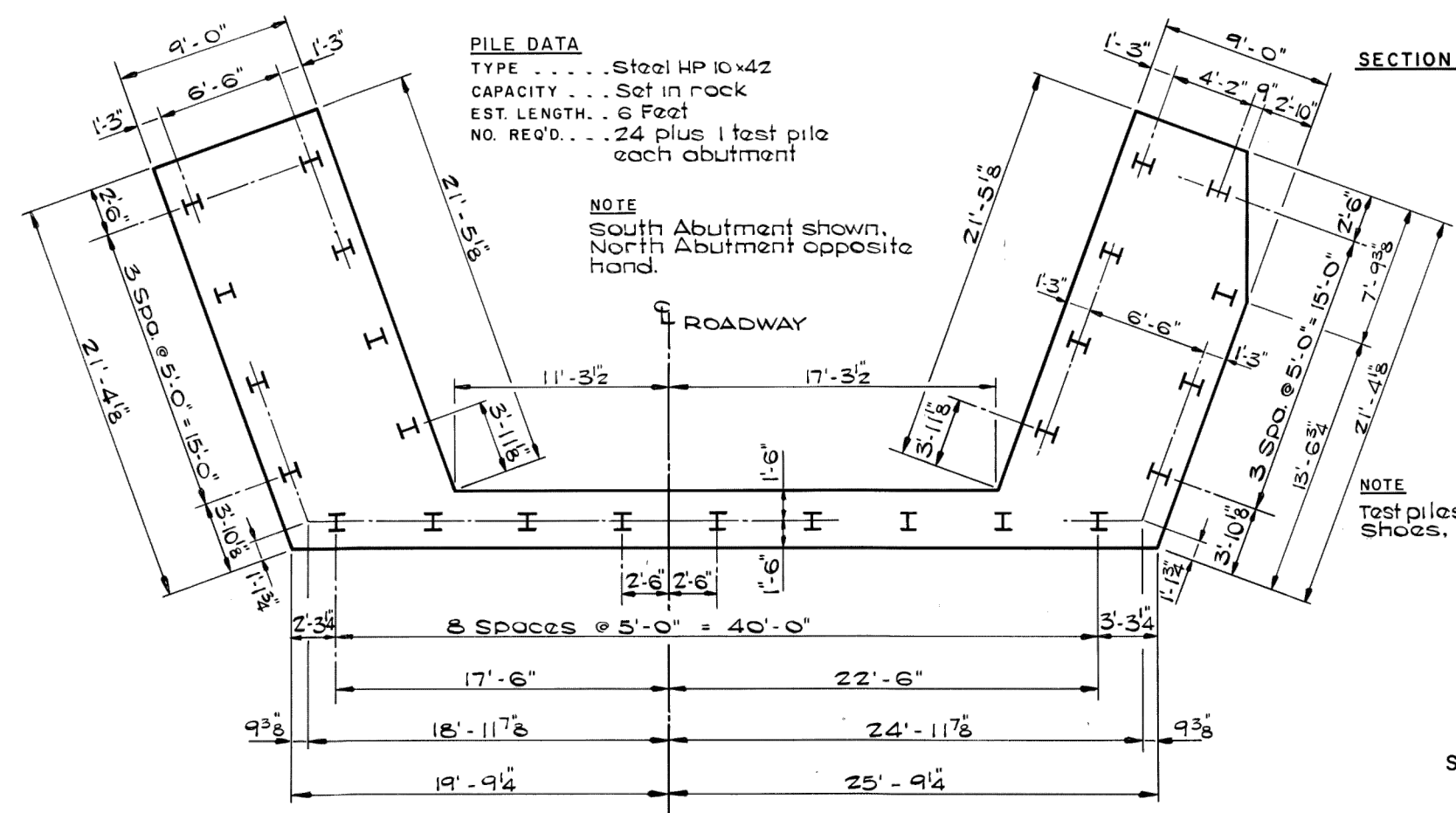
SECTION THRU ABUT.



PIPE UNDERDRAIN SYSTEM
 NORTHEAST CORNER OF NORTH ABUT.



SECTION THRU WING



PILE DATA
 TYPE Steel HP 10x42
 CAPACITY Set in rock
 EST. LENGTH 6 Feet
 NO. REQ'D 24 plus 1 test pile each abutment

NOTE
 South Abutment shown, North Abutment opposite hand.

NOTE
 Test piles are to have Metal Shoes, see Special Provisions.

PILING LAYOUT & PIPE UNDERDRAINS
 SECTION 85-00139-00-BR
 SEATONVILLE
 BUREAU COUNTY

CONTRACT NO. 87781

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REVISIONS	DATE	BY	LEVEL	DESCRIPTION

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 ILLINOIS

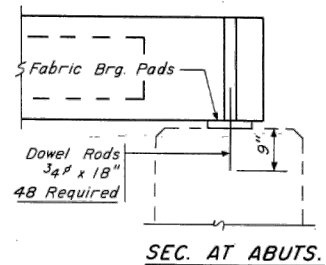
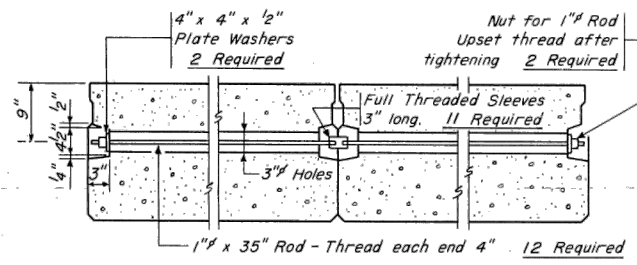
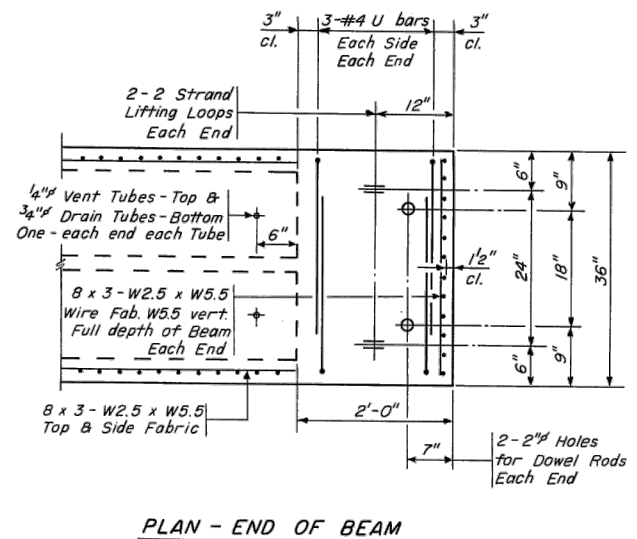
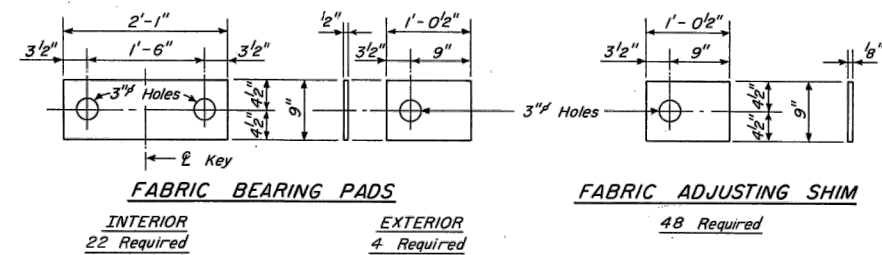
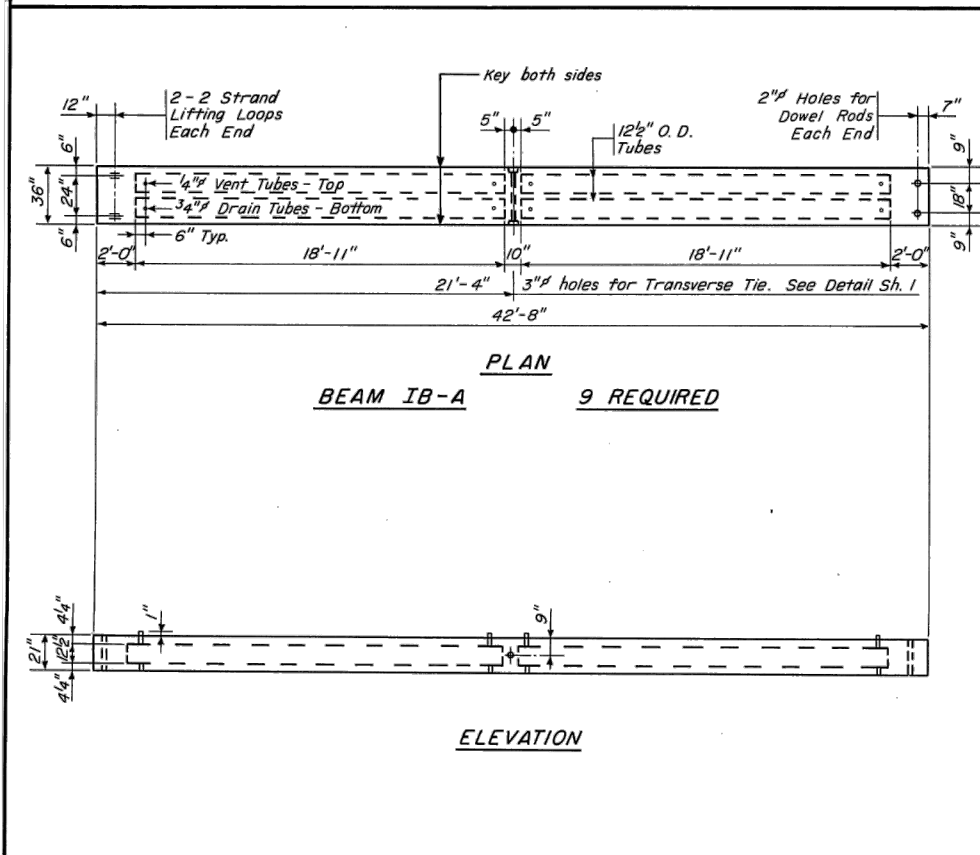
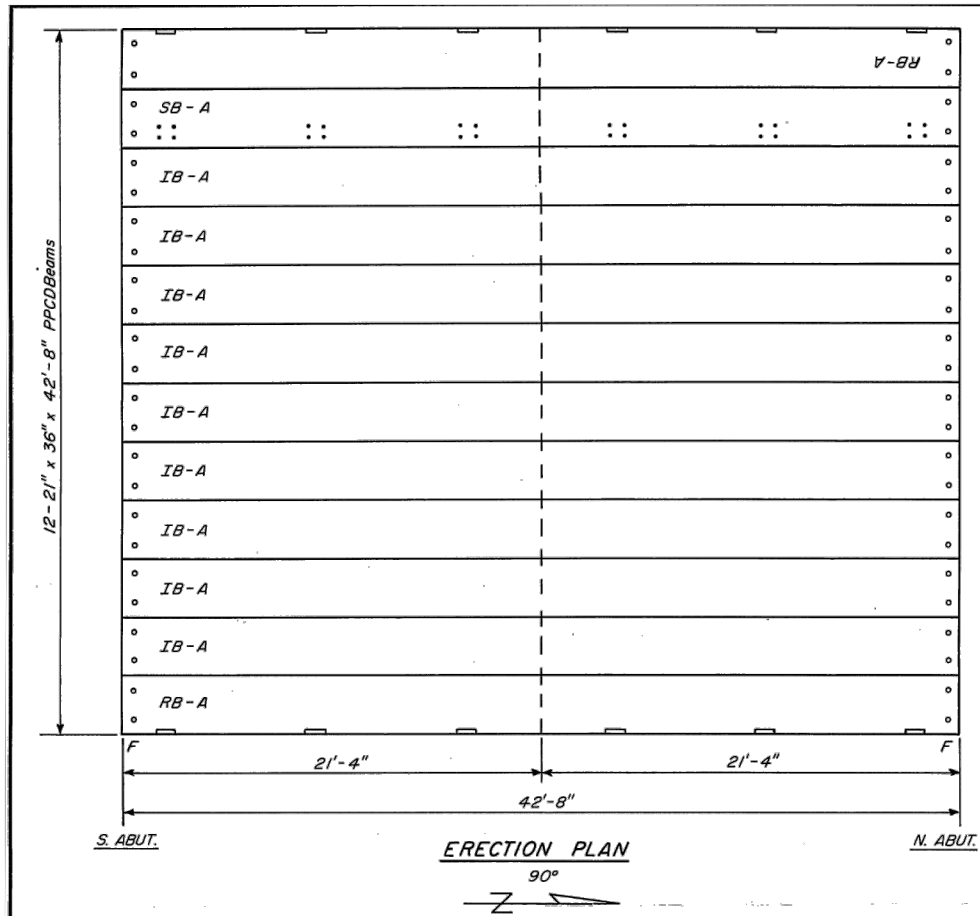
VILLAGE OF SEATONVILLE
 PERU ROAD BRIDGE REPAIR
 SECTION 20-0008-00-BR

EXISTING PLANS
 FOR INFORMATION ONLY

CONSTRUCTION
 PLANS

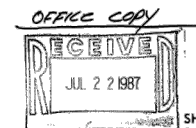
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SCALE: AS NOTED	OF 24
FILE NO.: 11593.03 Y-	

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PRESTRESS NOTES

THIS JOB IS STATE INSPECTED.
 A Calcium Nitrite Corrosion Inhibitor, as covered in the Special Provisions shall be used in the concrete for precast prestressed concrete deck beams.
 Dowel Rods shall conform to AASHTO M227 Grade 70 or 80, AASHTO M-31 or M-53 Grade 60.
 Welded Wire Fabric shall conform to AASHTO M55 and Reinforcement to AASHTO M31 or M53 Grade 60.
 All Wire Strands shall be Extra High Strength 1/2" stressed to 28,900 lbs. each. All Strands shall be Non-Galvanized Stress-Relieved AASHTO M203 Grade 270K.
 Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.
 Each end of Beam shall be given two (2) coats of Asphalt Paint.
 Loading HS20-44. f'c = 5,000 psi.
 f'ci = 4,000 psi.
 The top of Beams shall not be roughened by brooming. See Art. 505.06(5) of the Std. Spec's.
 The Transverse Tie Rod, Nuts, Sleeves and Washers shall be hot dipped Galvanized in accordance with AASHTO M232 after fabrication.
 Steel for the Transverse Tie Rods shall be AASHTO M227 Grade 70 or 80, AASHTO M-31 or M-53 Plain Bars.



NO EXCEPTION TAKEN REVISE AND RESUBMIT
 REJECTED FURNISH AS CORRECTED

Corrections or comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. The contractor is responsible for coordinating all quantities and dimensions, scheduling and correlating all quantities and dimensions, scheduling fabrication processes and methods of construction, coordinating his work with that of all other trades and performing his work in a safe and satisfactory manner.
 Willett, Hoffman and Assoc., Inc.
 Date 7-23-87 by RJS

FIELD BILL OF MATERIAL

Item	Each
Beam RB-A (Wt. 24,820# Each)	2
Beam SB-A (Wt. 24,820# Each)	1
Beam IB-A (Wt. 24,820# Each)	9
Dowel Rods 3/4" x 18"	48
Nuts 1" Heavy	2
Plate Washers 4" x 4" x 1/2"	2
Sleeves 3" long full threaded	11
Rods 1" x 35"	12
Fabric Adj. Shims 9" x 1/8" x 1'-0 1/2"	48
Fabric Brg. Pads 9" x 1/2" x 2'-1"	22

Date Poured
1
2
3
4
5
6
7
8
9

SHEET	JOB NO.
2 OF 5	53-7

21" x 36" BEAM IB-A

Job #87 on May 15, 1987 Let.	1,536 S.F. PRECAST PRESTRESSED CONCRETE DECK BEAMS 121" DEPTH)
PRINT RECORD	STATE CONTRACT NO. 41625
DATE NO TO	STATE JOB NO. C-92-119-86
7 JULY 1987 2 WHA	
7 JULY 1987 1 JJ	
21 JULY 1987 9 WHA	
21 JULY 1987 5 JJ	
CONTRACTOR CENTRAL ILLINOIS CONTR. CORP.	PROJ. BR-OS-011(28) STR. No. 006-6020 C.H. No. 14 EXT. (PERU ROAD) OVER NEGRO CREEK VILLAGE OF SEATONVILLE SEC. 85-00139-00-BR BUREAU COUNTY STA. 15+27
	Price Brothers - Midwest, Inc. P. O. Box 460, 111 Fifth Avenue Rochelle, Illinois 61068 Phone: 815-562-4136
	JOB NO. 53-7
	SHEET 1 OF 5
	ERECTION DETAILS

REVISIONS	DESCRIPTION
LEVEL	BY
DATE	

DRAWN BY: SNE
 CHECKED BY: ---
 DATE: 2/2021

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**VILLAGE OF SEATONVILLE
 PERU ROAD BRIDGE REPAIR
 SECTION 20-0008-00-BR**

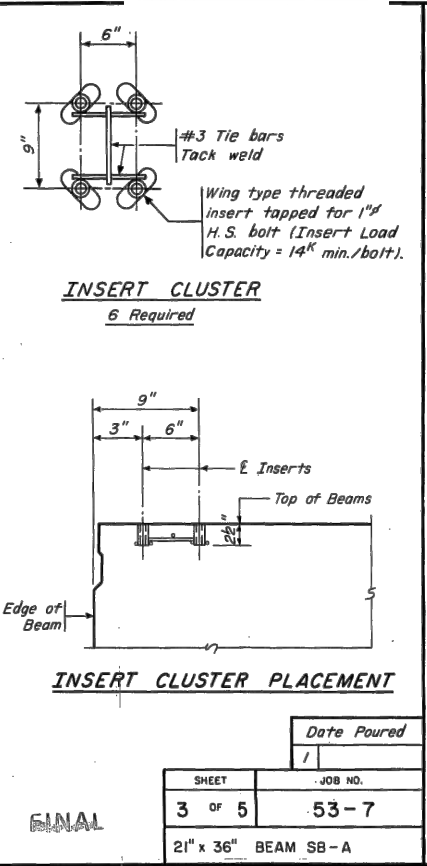
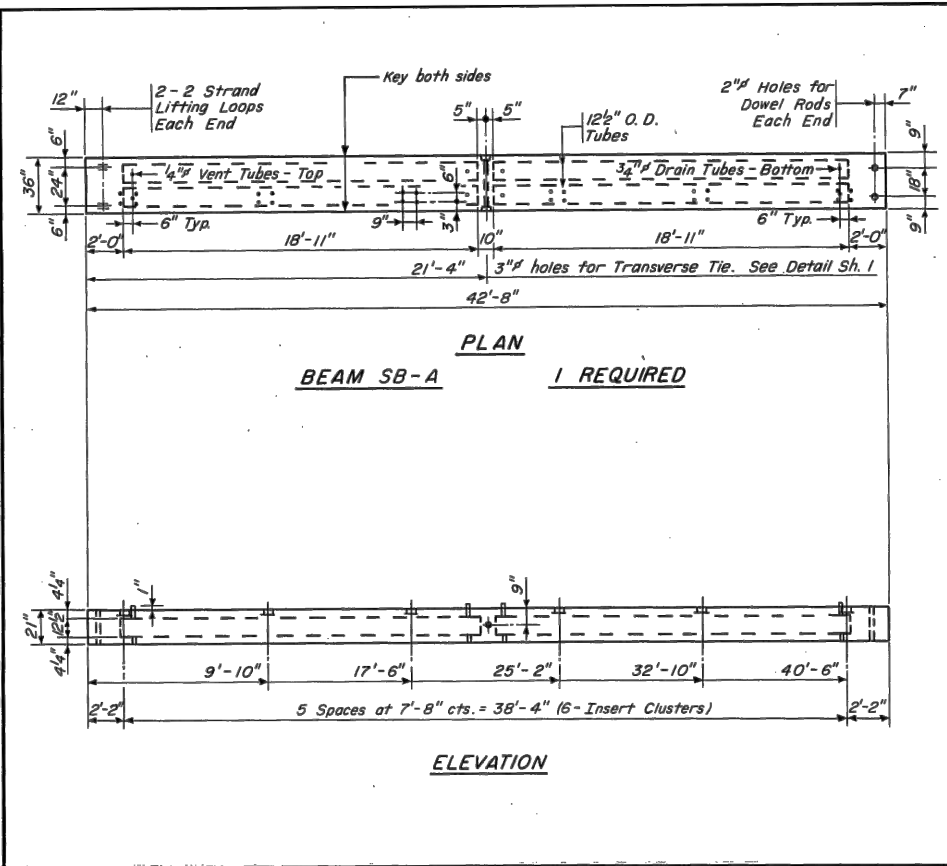
**EXISTING PLANS
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CONSTRUCTION PLANS

CURRENT AS OF: 05/20/2021
 SCALE: AS NOTED SHEET 22
 FILE NO.: 11593.03 Y- OF 24

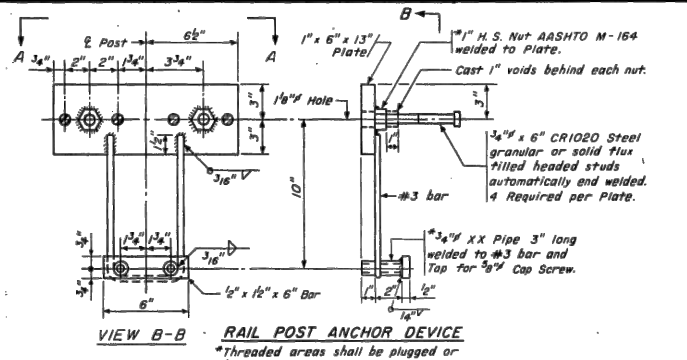
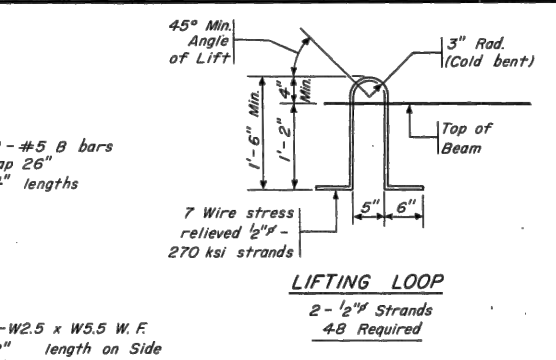
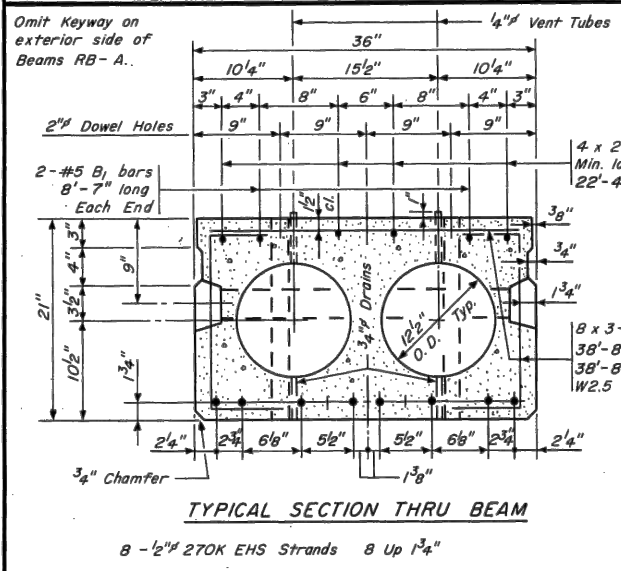
CONTRACT NO. 87781

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 by: Nanci Wilcox

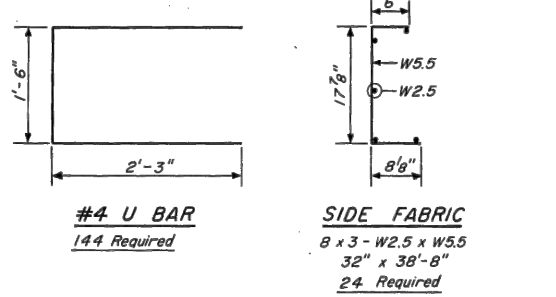


Date Poured	
1	
SHEET	JOB NO.
3 OF 5	53-7
21" x 36" BEAM SB-A	

Date Poured	
1	
SHEET	JOB NO.
4 OF 5	53-7
21" x 36" BEAM RB-A	



FABRICATION NOTES
 Strands in each cut must be cut in all beams of that form bed before progressing to next strand release sequence.
 Seal Drains before concrete placement and open before shipment. Vents to be open during curing period, but removed and sealed before shipment. (Flush with top of Beam).



Does not include 1/2" Wire Strands
SHOP BILL OF MATERIAL

Bar	Size	Length	Shape	One Beam	Job Total	Remarks
B	#5	22'-4"		8	96	
B ₁	5	8'-7"		4	48	
U	4	6'-0"		12	144	
Reinforcement Bars				Lbs.	270	3,240 All Grade 60
Wire Fabric						
Top	32"	38'-8"		1	12	103.1 S.F.
End	18"	2'-9"		2	24	8.2 S.F.
Side	32"	38'-8"		2	24	206.2 S.F.
8 x 3-W2.5 x W5.5 Wire Fabric				Lbs.	286.2	3,434 3,810 S.F.
Concrete 5,000 psi, See Spec's.				C.Y.	5.8	69.6
Lifting Loops (2-1/2" Strands)					4	48
Vent Tubes 1/2" I.D. x 5 1/4"					8	96
Drain Tubes 3/4" I.D. x 4 1/4"					8	96
Tubes 2" I.D. x 1'-9"					4	48 84 L.F.
Tubes 3" I.D. x 2'-6"					1	12 30 L.F.
Tubes 1 1/2" O.D. x 18'-11"				Each	4	48 908 L.F.
SB-A Insert Clusters					6	6 See Det. Sh. 3
RB-A Rail Post Anchor Device					6	12

FEBRUARY 2020 SHEET 21 OF 25

SHOP DRAWING STA-17

NO EXCEPTION TAKEN REVISE AND RESUBMIT
 REJECTED FURNISH AS CORRECTED

Corrections or comments made on this shop drawing during this review do not relieve contractor from compliance with requirements of the drawings and specifications. The contractor is responsible for coordinating and correlating all quantities and dimensions, selecting fabrication processes and techniques of construction, coordinating his work with that of all other trades and performing his work in a safe and satisfactory manner.
 Willett, Holman and Assoc., Inc.
 Date 7-28-21 by RJS

DRAWN BY: SNE	REVISIONS	DESCRIPTION
CHECKED BY: ---	LEVEL	BY
DATE: 2/2021	DATE	DATE

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 ILLINOIS

**VILLAGE OF SEATONVILLE
 PERU ROAD BRIDGE REPAIR
 SECTION 20-0008-00-BR**

**EXISTING PLANS
 FOR INFORMATION ONLY**

CONSTRUCTION PLANS
 CURRENT AS OF: 05/20/2021
 SCALE: AS NOTED SHEET 23
 FILE NO.: 11593.03 Y- OF 24

CONTRACT NO. 87781

ILLINOIS DEPARTMENT OF TRANSPORTATION
BRIDGE FOUNDATION BORING

Project _____ Bridge CH 14 Peru Road Date 12-03-85
 Route C.H. 14 (Peru Road) over Negro Creek Bored By G. Gentry
 Sec 85-00139-00-BR STA. 15 + 27 Checked By C. Hage
 County Bureau BORING NO. B-1 Station 14+90 Offset 7'R

Surface Water El. 78.0 Groundwater El. at Completion Dry Hole After _____ Hours

DEPTH	N	Qu	W%	DEPTH	N	Qu
Ground Surface Deck	89.5	0				
Loose Brown Silt w/gravel.			4	Hard gray shale.	100	8.1
					6"	S
					65.5	PEN
				END OF BORING		
Medium brown sandy silt loam.	6	.7			25	
	8	P	20			
	11					
	84.5	5				
Medium dirty brown sand and gravel.	6					
	8		6			
	12					
Loose dirty brown sand and gravel.	6				30	
	3					
	3					
	10					
First Encounter	V	8				
Dense weathered Limestone sand & gravel.	79.0	18				
		40				
	77.0					
Hard Shale (Crumbly light gray) dry	100				35	
	1"		3			
	PEN					
	15					
Hard shale (crumbly dark gray dry)	57					
	100		15			
	7"	PEN				
Hard crumbly dry blue gray shale.	30				40	
	100		15			
	8"	PEN				
Hard crumbly dry gray shale.	20					
	100	7.8	14			
	8"	S				
	PEN					

Type failure: B-Bulge Failure, S-Shear Failure, E-Estimated Value, P-Penetrometer

BRIDGE FOUNDATION BORING LOG

Project _____ Bridge In-Hall Township Date 11-04-85
 Route C.H. 14 over Negro Creek Bored By G. Gentry
 Sec 85-00139-00-BR STA. 15 + 27 Checked By C. Hage
 County Bureau BORING NO. B-2 Station 15 + 42 Offset 6' L

Surface Water El. 78.0 Groundwater El. at Completion 81.0 After _____ Hours

DEPTH	N	Qu	W%	DEPTH	N	Qu
Ground Surface	90.0	0				
Loose brown silt w/gravel.			5	Hard dry gray crumbly shale.	100	8.3
					4"	S
					PEN	
Loose brown silt w/gravel.	2	.2				
	2	E	7	Hard dry gray crumbly Shale.	25	100
	3				3"	8.5
					PEN	S
					64.0	
				END OF BORING		
Soft brown silt w/gravel.	5	.3				
	3	P	15			
	5					
	84.0					
Medium dirty sand & gravel.	3					
	5				30	
	6					
Dense dirty sand & gravel.	10	7				
First Encounter	V	12				
		25				
	78.0					
Hard dry crumbly gray shale.	100				35	
	1"		13			
	PEN					
	15					
Very stiff dry crumbly gray shale.	42	3.7				
	47	S	13			
	40					
Hard dry, gray crumbly shale.	32	6.0				
	100	S	13		40	
	8"	PEN				
Hard dry gray crumbly shale.	20	8.7				
	100	S	13			
	6"					
	PEN					

Type failure: B-Bulge Failure, S-Shear Failure, E-Estimated Value, P-Penetrometer

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 Drawing Name: G:\Users\111193-03-Sectorville-2017-Bridge-Inspection\CAD\C30\024-SB.dwg
 Last Modified: Thursday, February 11, 2021 9:59:32 AM
 Plotted On: Thursday, May 20, 2021 9:13:27 AM
 by: Nanci Villava

CONTRACT NO. 87781

LEVEL	BY	DATE	REVISIONS	DESCRIPTION



PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

VILLAGE OF SEATONVILLE
PERU ROAD BRIDGE REPAIR
SECTION 20-0008-00-BR

SOIL BORINGS

CONSTRUCTION
PLANS

CURRENT AS OF: 05/20/2021	
SCALE: AS NOTED	SHEET 24
FILE NO.: 11593.03 Y-	OF 24