

GENERAL NOTES

- Calculated Weight of Structural Steel = 187,000 lbs. (Gr 50)
23,700 lbs. (Gr 36)
- Fasteners shall be ASTM F 3125 Grade A325 Type 1, mechanically galvanized bolts. Bolts 7/8 in. ϕ , holes 1 1/16 in. ϕ , unless otherwise noted.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- Concrete Sealer shall be applied to the designated areas of the piers.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- The Organic Zinc Rich Primer/Epoxy/Urethane paint system shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception that the exterior surfaces and bottom of the bottom flange of the fascia beams, masked off connection surfaces, and field installed fasteners, all of which shall be touched up and finish coated in the field. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia shall be Interstate Green, Munsell No. 7.5G 4/8.
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- Slope wall shall be reinforced with welded wire fabric, 6 in x 6 in - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.
- Slipforming of the parapets is not allowed.
- The finishing machine rails shall be placed on the top flange of the exterior beams.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu. Yd.		33.2	33.2
Sloped Wall Removal	Sq. Yd.		370	370
Protective Shield	Sq. Yd.	598		598
Structure Excavation	Cu. Yd.		226	226
Concrete Structures	Cu. Yd.	22.1	173.2	195.3
Concrete Superstructure	Cu. Yd.	379.9		379.9
Bridge Deck Grooving	Sq. Yd.	941		941
Protective Coat	Sq. Yd.	1,771		1,771
Concrete Superstructure (Approach Slab)	Cu. Yd.	125.8		125.8
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	9,891		9,891
Reinforcement Bars, Epoxy Coated	Pound	157,740	72,110	229,850
Bridge Fence Railing	Foot	278		278
Parapet Railing	Foot	278		278
Slope Wall, 4 inch	Sq. Yd.		478	478
Furnishing Metal Shell Piles 12" x 0.250"	Foot		135	135
Furnishing Metal Shell Piles 16" x 0.375"	Foot		1,272	1,272
Driving Piles	Foot		1,407	1,407
Test Pile, Metal Shells	Each		3	3
Pile Shoes	Each		28	28
Name Plates	Each		2	2
Elastomeric Bearing Assembly, Type I	Each	28		28
Anchor Bolts, 5/8"	Each	28		28
Anchor Bolts, 3/4"	Each	42		42
Granular Backfill for Structures	Cu. Yd.		382	382
Concrete Sealer	Sq. Ft.		1,603	1,603
Epoxy Crack Injection	Foot		4	4
Geocomposite Wall Drain	Sq. Yd.		99	99
Pipe Underdrain for Structures 4"	Foot		136	136
Protective Shield Removal	L. Sum	1		1
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft		125	125

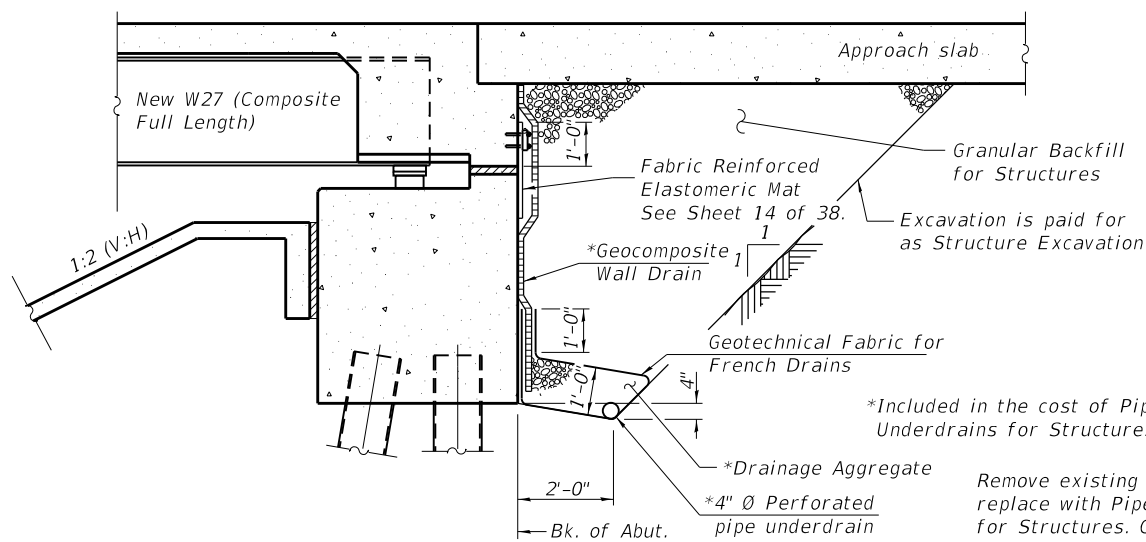
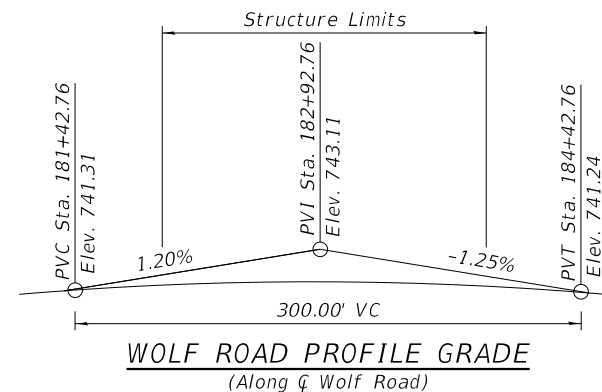
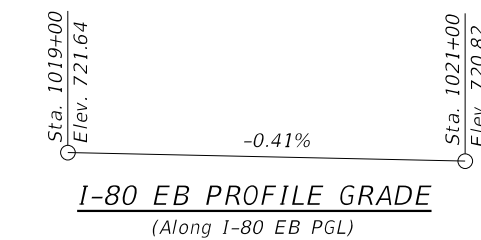
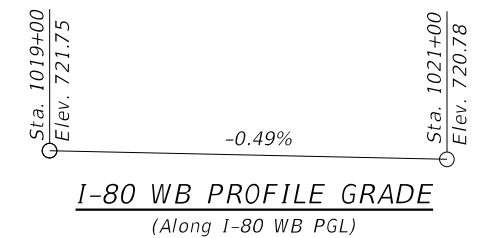
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RE-BUILT BY
STATE OF ILLINOIS
F.A.I. RT. 80 SEC. 2020-250-BY
LOADING HL-93
STRUCTURE NO. 099-0192

NAME PLATE
See Std. 515001

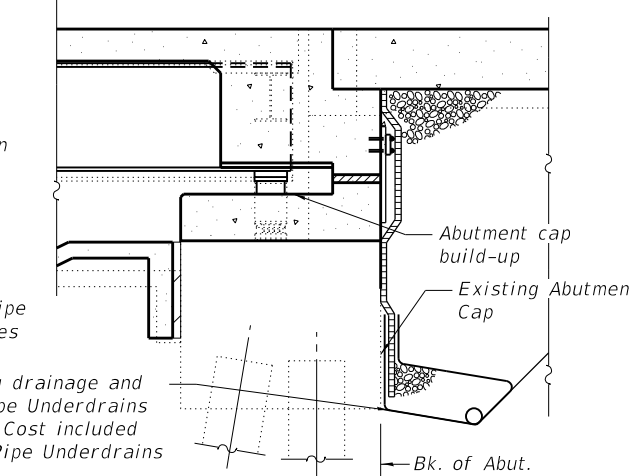
Note: Existing Name Plates shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

INDEX OF SHEETS

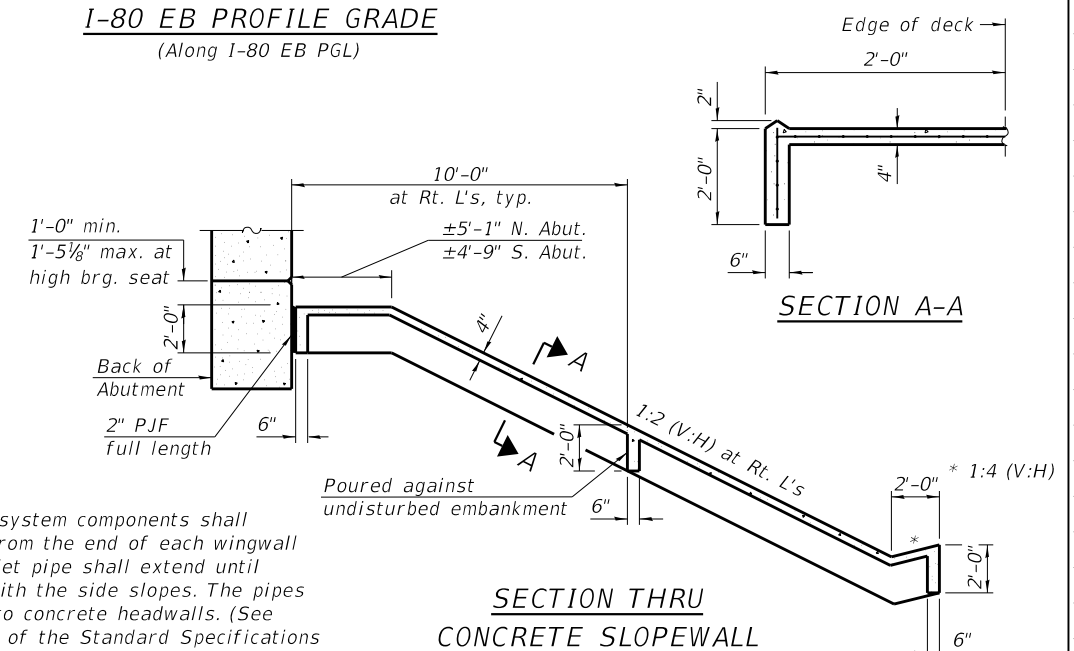
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- Index of Sheets and Bill of Materials
- Foundation Plan
- Removal Plan
- Top of Deck Plan
- Top of Deck Elevations I
- Top of Deck Elevations II
- Top of Deck Elevations III
- Top of South Approach Slab Elevations
- Top of North Approach Slab Elevations
- Superstructure Plan and Section
- Parapet Elevation and Details
- Superstructure Details
- Diaphragm Details
- Bridge Fence Railing, Parapet Mounted
- Parapet Railing
- Bridge Approach Slab Plan and Section
- Bridge Approach Slab Details
- Framing Plan
- Girder Elevation and Details
- Girder Moment and Reaction Tables
- Bearing Details I
- Bearing Details II
- North Abutment Plan and Elevation
- South Abutment Plan and Elevation
- Abutment Details
- Pier Repair Details
- Pier 1 Widening
- Pier 2 Widening
- Pier 3 Widening
- Metal Shell Pile Details
- Boring Logs I
- Boring Logs II
- Boring Logs III
- Boring Logs IV
- Boring Logs V
- Boring Logs VI
- Boring Logs VII



SECTION THRU SEMI-INTEGRAL ABUTMENT
(Widened section shown)
(Horiz. dim. at Rt. L's)



SECTION THRU SEMI-INTEGRAL ABUTMENT
(Existing section shown)
(Horiz. dim. at Rt. L's)



SECTION THRU CONCRETE SLOPEWALL

Note: All drainage system components shall extend 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).

Entire sheet revised



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DRAWN KC	REVISION -	
CHECKED KJA	REVISION -	

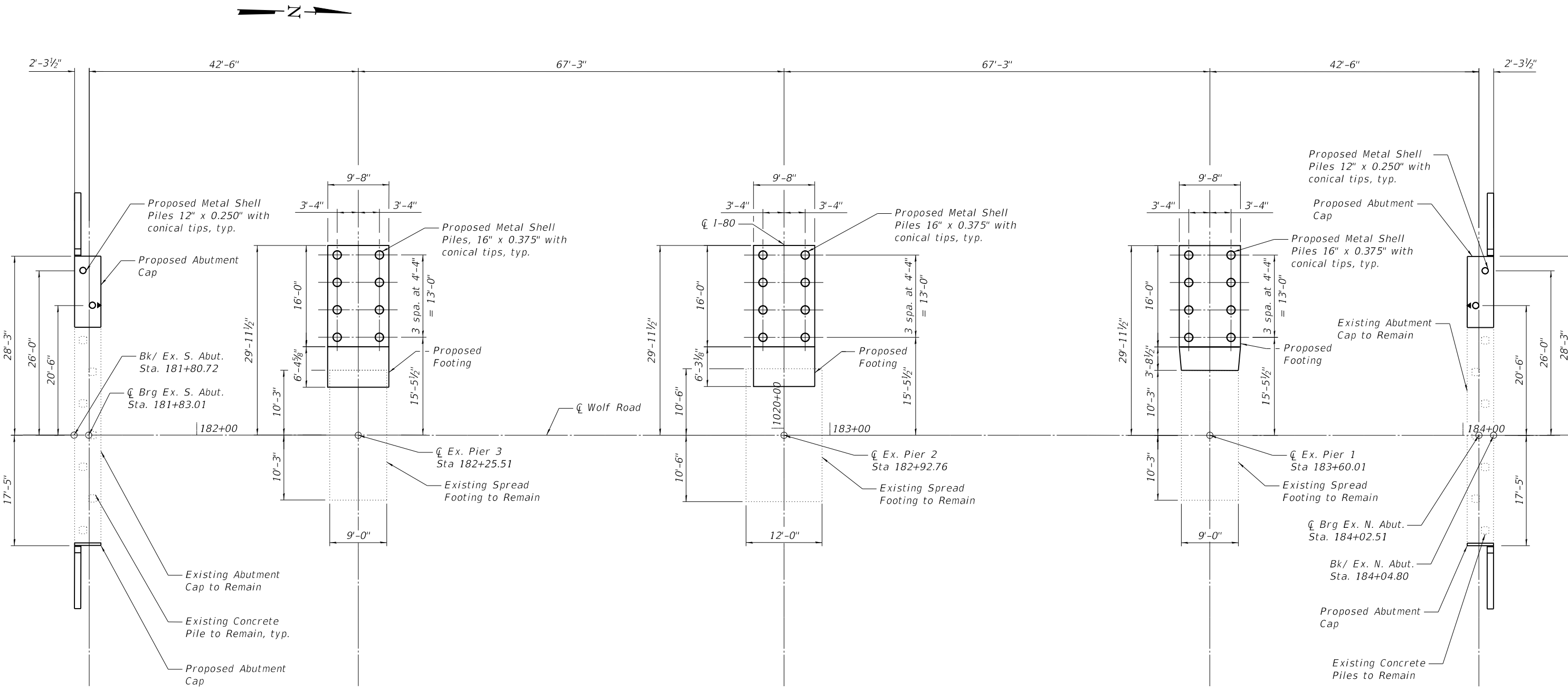
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS & BILL OF MATERIAL
STRUCTURE NO. 099-0192

SHEET 2 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2020-250-BY	WILL	133	64
			CONTRACT NO. 62N20	

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FOOTING LAYOUT

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LEGEND
 ○ Vertical Pile
 ● Battered Pile

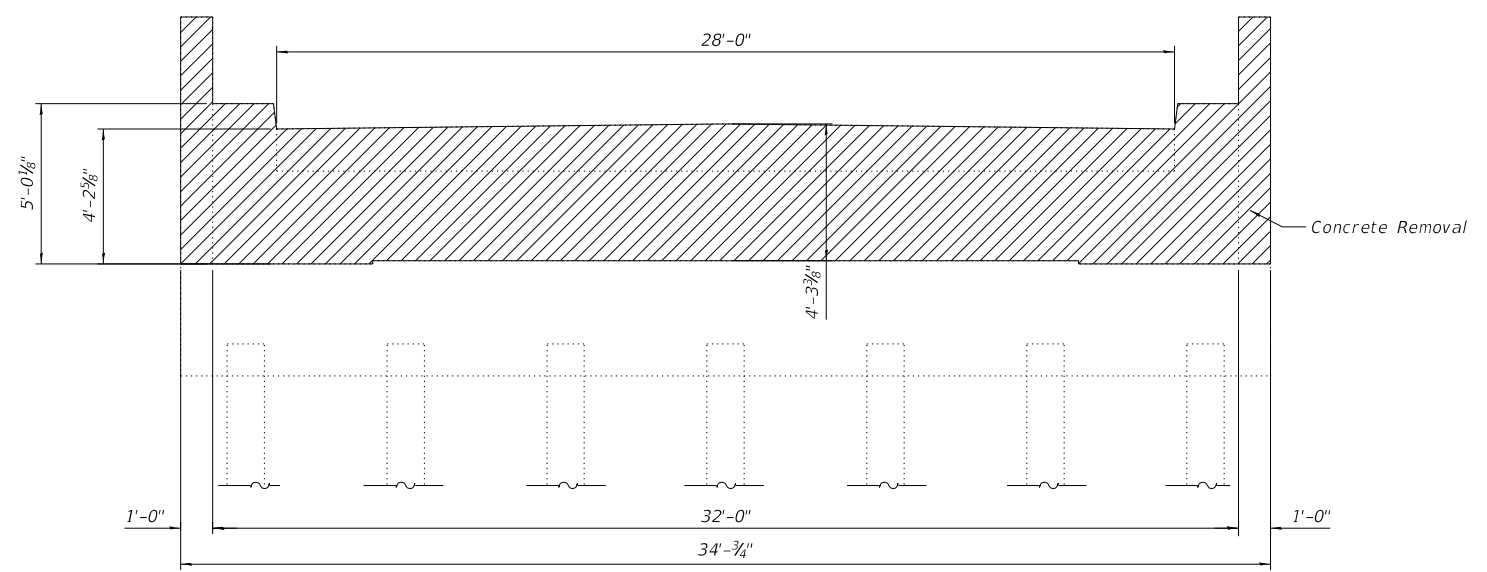
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	PLOT DATE = 4/8/2022	DRAWN KC	REVISED -
		CHECKED KJA	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

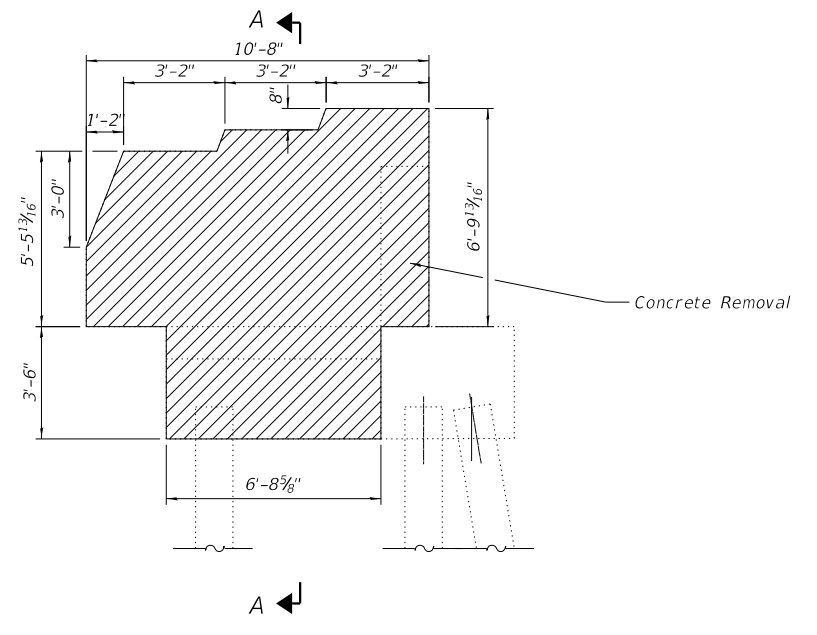
FOUNDATION PLAN
STRUCTURE NO. 099-0192
 SHEET 3 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 62N20	
ILLINOIS				

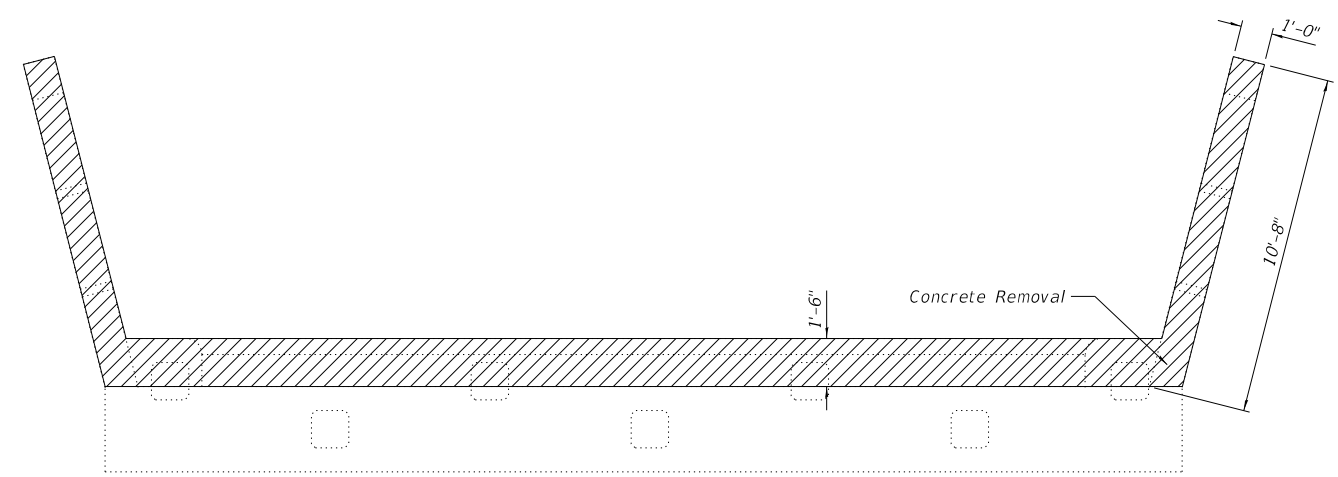
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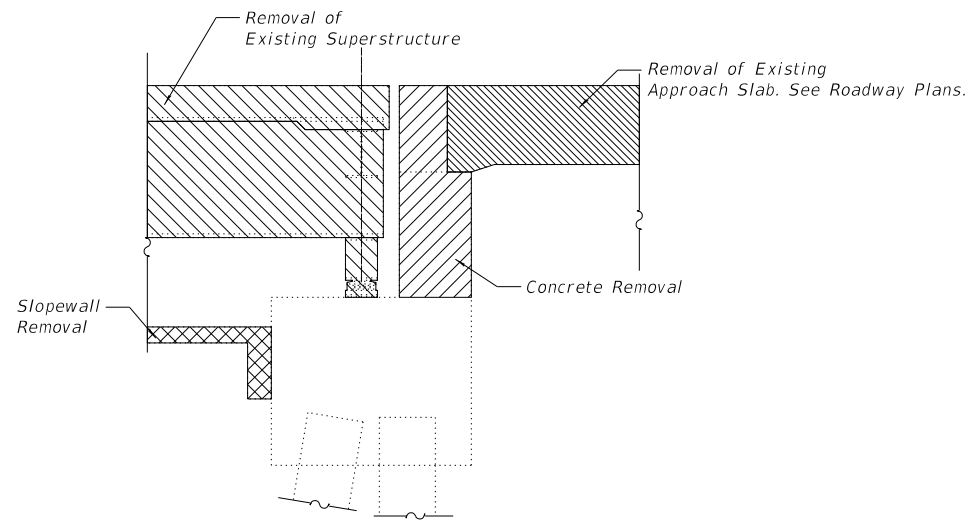
ABUTMENT REMOVAL ELEVATION



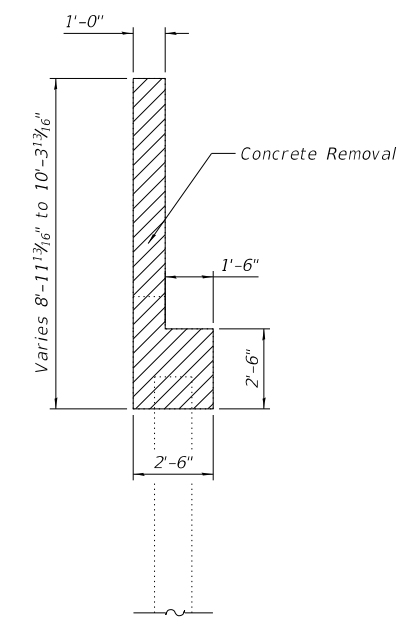
WINGWALL REMOVAL ELEVATION



ABUTMENT REMOVAL PLAN



ABUTMENT SECTION



SECTION A-A

LEGEND

- Concrete Removal
- Removal of Existing Superstructure
- Sloped Wall Removal
- Removal of Existing Approach Slab. See Roadway Plans

Entire sheet revised

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	32.5
Removal of Existing Superstructures	Each	1
Sloped Wall Removal	Sq. Yd.	370
Protective Shield	Sq. Yd.	598
Protective Shield Removal	L. Sum	1



USER NAME = kanderson	DESIGNED KJA	REVISED 4/8/2022 KJA
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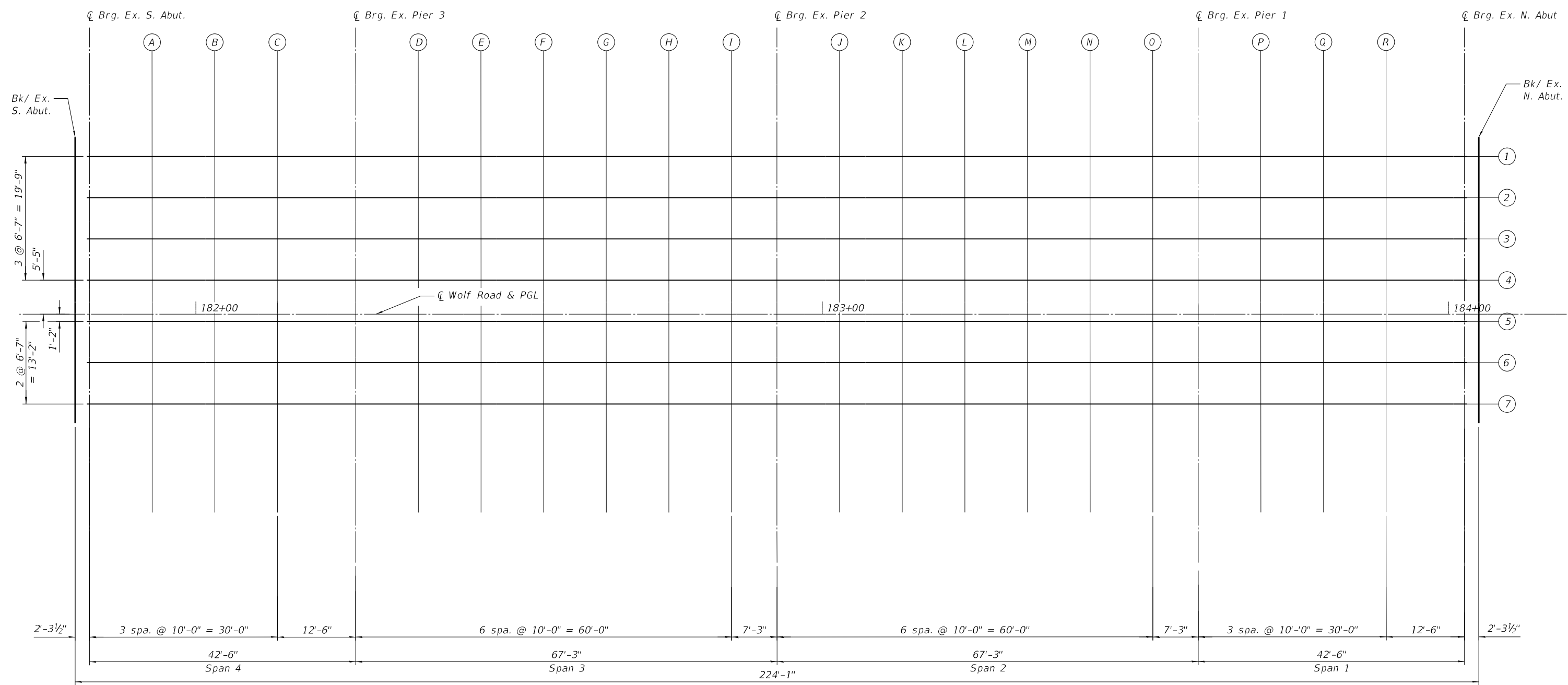
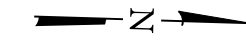
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
 STRUCTURE NO. 099-0192

SHEET 4 OF 38 SHEETS

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

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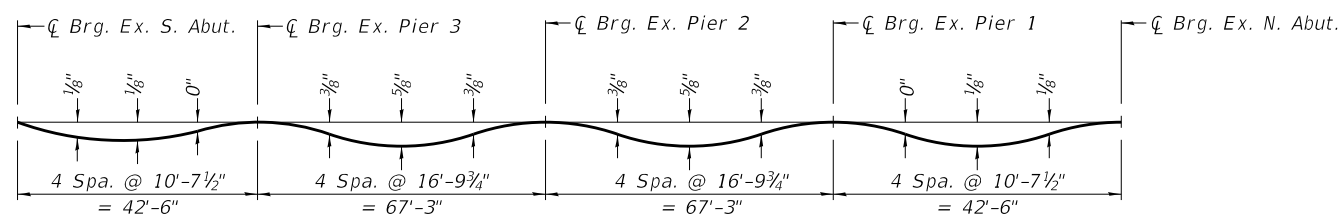
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PLOT DATE =	4/8/2022	CHECKED	KJA	REVISION	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK PLAN
STRUCTURE NO. 099-0192
 SHEET 5 OF 38 SHEETS

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

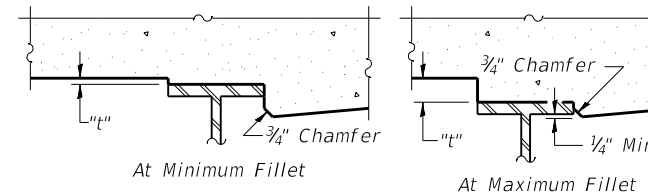
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DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
 The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below and on Sheets 7-8 of 38.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below and on Sheets 7-8 of 38. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below and on Sheets 7-8 of 38, minus the slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk/ Ex. S. Abut.	181+80.72	-25.17	741.26	741.26
CL Brg Ex. S. Abut.	181+83.01	-25.17	741.28	741.28
A	181+93.01	-25.17	741.37	741.38
B	182+03.01	-25.17	741.44	741.45
C	182+13.01	-25.17	741.51	741.51
CL Brg. Ex. Pier 3	182+25.51	-25.17	741.58	741.58
D	182+35.51	-25.17	741.63	741.65
E	182+45.51	-25.17	741.67	741.72
F	182+55.51	-25.17	741.70	741.77
G	182+65.51	-25.17	741.72	741.79
H	182+75.51	-25.17	741.74	741.78
I	182+85.51	-25.17	741.75	741.76
CL Brg. Ex. Pier 2	182+92.76	-25.17	741.75	741.75
J	183+02.76	-25.17	741.74	741.76
K	183+12.76	-25.17	741.73	741.77
L	183+22.76	-25.17	741.70	741.77
M	183+32.76	-25.17	741.67	741.74
N	183+42.76	-25.17	741.63	741.68
O	183+52.76	-25.17	741.59	741.60
CL Brg. Ex. Pier 1	183+60.01	-25.17	741.55	741.55
P	183+70.01	-25.17	741.48	741.49
Q	183+80.01	-25.17	741.42	741.42
R	183+90.01	-25.17	741.34	741.35
CL Brg Ex. N. Abut.	184+02.51	-25.17	741.23	741.23
Bk/ Ex. N. Abut.	184+04.80	-25.17	741.21	741.21

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk/ Ex. S. Abut.	181+80.72	-18.58	741.39	741.39
CL Brg Ex. S. Abut.	181+83.01	-18.58	741.42	741.42
A	181+93.01	-18.58	741.50	741.51
B	182+03.01	-18.58	741.57	741.58
C	182+13.01	-18.58	741.64	741.64
CL Brg. Ex. Pier 3	182+25.51	-18.58	741.71	741.71
D	182+35.51	-18.58	741.76	741.78
E	182+45.51	-18.58	741.80	741.85
F	182+55.51	-18.58	741.83	741.90
G	182+65.51	-18.58	741.86	741.92
H	182+75.51	-18.58	741.87	741.91
I	182+85.51	-18.58	741.88	741.89
CL Brg. Ex. Pier 2	182+92.76	-18.58	741.88	741.88
J	183+02.76	-18.58	741.87	741.89
K	183+12.76	-18.58	741.86	741.90
L	183+22.76	-18.58	741.84	741.90
M	183+32.76	-18.58	741.80	741.87
N	183+42.76	-18.58	741.77	741.81
O	183+52.76	-18.58	741.72	741.73
CL Brg. Ex. Pier 1	183+60.01	-18.58	741.68	741.68
P	183+70.01	-18.58	741.62	741.62
Q	183+80.01	-18.58	741.55	741.55
R	183+90.01	-18.58	741.47	741.48
CL Brg Ex. N. Abut.	184+02.51	-18.58	741.36	741.36
Bk/ Ex. N. Abut.	184+04.80	-18.58	741.34	741.34

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk/ Ex. S. Abut.	181+80.72	-12.00	741.53	741.53
CL Brg Ex. S. Abut.	181+83.01	-12.00	741.55	741.55
A	181+93.01	-12.00	741.63	741.64
B	182+03.01	-12.00	741.70	741.71
C	182+13.01	-12.00	741.77	741.77
CL Brg. Ex. Pier 3	182+25.51	-12.00	741.84	741.84
D	182+35.51	-12.00	741.89	741.91
E	182+45.51	-12.00	741.93	741.98
F	182+55.51	-12.00	741.96	742.03
G	182+65.51	-12.00	741.99	742.05
H	182+75.51	-12.00	742.00	742.04
I	182+85.51	-12.00	742.01	742.02
CL Brg. Ex. Pier 2	182+92.76	-12.00	742.01	742.01
J	183+02.76	-12.00	742.00	742.02
K	183+12.76	-12.00	741.99	742.03
L	183+22.76	-12.00	741.97	742.03
M	183+32.76	-12.00	741.94	742.00
N	183+42.76	-12.00	741.90	741.94
O	183+52.76	-12.00	741.85	741.86
CL Brg. Ex. Pier 1	183+60.01	-12.00	741.81	741.81
P	183+70.01	-12.00	741.75	741.75
Q	183+80.01	-12.00	741.68	741.69
R	183+90.01	-12.00	741.60	741.61
CL Brg Ex. N. Abut.	184+02.51	-12.00	741.49	741.49
Bk/ Ex. N. Abut.	184+04.80	-12.00	741.47	741.47

1 Entire sheet revised



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CHECKED MGZM	REVISED -	
PLOT SCALE =	DRAWN KC	REVISED -
PLOT DATE = 4/8/2022	CHECKED KJA	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS I
 STRUCTURE NO. 099-0192

SHEET 6 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2020-250-BY	WILL	133	68
CONTRACT NO. 62N20				

ILLINOIS

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BEAM 4


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☒ Brg Ex. S. Abut.	181+83.01	-5.42	741.65	741.65
A	181+93.01	-5.42	741.73	741.74
B	182+03.01	-5.42	741.80	741.81
C	182+13.01	-5.42	741.87	741.87
☒ Brg. Ex. Pier 3	182+25.51	-5.42	741.94	741.94
D	182+35.51	-5.42	741.99	742.01
E	182+45.51	-5.42	742.03	742.08
F	182+55.51	-5.42	742.06	742.13
G	182+65.51	-5.42	742.09	742.15
H	182+75.51	-5.42	742.10	742.14
I	182+85.51	-5.42	742.11	742.12
☒ Brg. Ex. Pier 2	182+92.76	-5.42	742.11	742.11
J	183+02.76	-5.42	742.10	742.12
K	183+12.76	-5.42	742.09	742.13
L	183+22.76	-5.42	742.07	742.13
M	183+32.76	-5.42	742.03	742.10
N	183+42.76	-5.42	742.00	742.04
O	183+52.76	-5.42	741.95	741.96
☒ Brg. Ex. Pier 1	183+60.01	-5.42	741.91	741.91
P	183+70.01	-5.42	741.85	741.85
Q	183+80.01	-5.42	741.78	741.79
R	183+90.01	-5.42	741.70	741.71
☒ Brg Ex. N. Abut.	184+02.51	-5.42	741.59	741.59
Bk/ Ex. N. Abut.	184+04.80	-5.42	741.57	741.57

☒ WOLF ROAD & PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk/ Ex. S. Abut.	181+80.72	0.00	741.71	741.71
☒ Brg Ex. S. Abut.	181+83.01	0.00	741.73	741.73
A	181+93.01	0.00	741.81	741.82
B	182+03.01	0.00	741.88	741.89
C	182+13.01	0.00	741.95	741.95
☒ Brg. Ex. Pier 3	182+25.51	0.00	742.02	742.02
D	182+35.51	0.00	742.07	742.09
E	182+45.51	0.00	742.11	742.16
F	182+55.51	0.00	742.14	742.21
G	182+65.51	0.00	742.17	742.23
H	182+75.51	0.00	742.18	742.22
I	182+85.51	0.00	742.19	742.20
☒ Brg. Ex. Pier 2	182+92.76	0.00	742.19	742.19
J	183+02.76	0.00	742.18	742.20
K	183+12.76	0.00	742.17	742.21
L	183+22.76	0.00	742.15	742.21
M	183+32.76	0.00	742.12	742.18
N	183+42.76	0.00	742.08	742.12
O	183+52.76	0.00	742.03	742.04
☒ Brg. Ex. Pier 1	183+60.01	0.00	741.99	741.99
P	183+70.01	0.00	741.93	741.93
Q	183+80.01	0.00	741.86	741.87
R	183+90.01	0.00	741.78	741.79
☒ Brg Ex. N. Abut.	184+02.51	0.00	741.67	741.67
Bk/ Ex. N. Abut.	184+04.80	0.00	741.65	741.65

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk/ Ex. S. Abut.	181+80.72	1.17	741.69	741.69
☒ Brg Ex. S. Abut.	181+83.01	1.17	741.71	741.71
A	181+93.01	1.17	741.79	741.80
B	182+03.01	1.17	741.87	741.88
C	182+13.01	1.17	741.93	741.94
☒ Brg. Ex. Pier 3	182+25.51	1.17	742.01	742.01
D	182+35.51	1.17	742.05	742.08
E	182+45.51	1.17	742.09	742.14
F	182+55.51	1.17	742.13	742.19
G	182+65.51	1.17	742.15	742.21
H	182+75.51	1.17	742.17	742.20
I	182+85.51	1.17	742.17	742.18
☒ Brg. Ex. Pier 2	182+92.76	1.17	742.17	742.17
J	183+02.76	1.17	742.17	742.18
K	183+12.76	1.17	742.15	742.20
L	183+22.76	1.17	742.13	742.19
M	183+32.76	1.17	742.10	742.16
N	183+42.76	1.17	742.06	742.10
O	183+52.76	1.17	742.01	742.03
☒ Brg. Ex. Pier 1	183+60.01	1.17	741.97	741.97
P	183+70.01	1.17	741.91	741.91
Q	183+80.01	1.17	741.84	741.85
R	183+90.01	1.17	741.76	741.77
☒ Brg Ex. N. Abut.	184+02.51	1.17	741.65	741.65
Bk/ Ex. N. Abut.	184+04.80	1.17	741.63	741.63

 Entire sheet revised



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PLOT DATE =	4/8/2022	CHECKED	KJA	REVISION	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS II
STRUCTURE NO. 099-0192

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2020-250-BY	WILL	133	69
			CONTRACT NO. 62N20	
ILLINOIS				


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BEAM 6


Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk/ Ex. S. Abut.	181+80.72	7.75	741.59	741.59
☒ Brg Ex. S. Abut.	181+83.01	7.75	741.61	741.61
A	181+93.01	7.75	741.69	741.70
B	182+03.01	7.75	741.77	741.78
C	182+13.01	7.75	741.84	741.84
☒ Brg. Ex. Pier 3	182+25.51	7.75	741.91	741.91
D	182+35.51	7.75	741.96	741.98
E	182+45.51	7.75	742.00	742.05
F	182+55.51	7.75	742.03	742.09
G	182+65.51	7.75	742.05	742.11
H	182+75.51	7.75	742.07	742.10
I	182+85.51	7.75	742.07	742.08
☒ Brg. Ex. Pier 2	182+92.76	7.75	742.08	742.08
J	183+02.76	7.75	742.07	742.08
K	183+12.76	7.75	742.05	742.10
L	183+22.76	7.75	742.03	742.09
M	183+32.76	7.75	742.00	742.06
N	183+42.76	7.75	741.96	742.00
O	183+52.76	7.75	741.91	741.93
☒ Brg. Ex. Pier 1	183+60.01	7.75	741.87	741.87
P	183+70.01	7.75	741.81	741.81
Q	183+80.01	7.75	741.74	741.75
R	183+90.01	7.75	741.66	741.67
☒ Brg Ex. N. Abut.	184+02.51	7.75	741.56	741.56
Bk/ Ex. N. Abut.	184+04.80	7.75	741.53	741.53

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk/ Ex. S. Abut.	181+80.72	14.33	741.48	741.48
☒ Brg Ex. S. Abut.	181+83.01	14.33	741.50	741.50
A	181+93.01	14.33	741.58	741.59
B	182+03.01	14.33	741.66	741.67
C	182+13.01	14.33	741.72	741.73
☒ Brg. Ex. Pier 3	182+25.51	14.33	741.80	741.80
D	182+35.51	14.33	741.85	741.87
E	182+45.51	14.33	741.89	741.94
F	182+55.51	14.33	741.92	741.99
G	182+65.51	14.33	741.94	742.00
H	182+75.51	14.33	741.96	742.00
I	182+85.51	14.33	741.96	741.97
☒ Brg. Ex. Pier 2	182+92.76	14.33	741.96	741.96
J	183+02.76	14.33	741.96	741.98
K	183+12.76	14.33	741.94	741.99
L	183+22.76	14.33	741.92	741.99
M	183+32.76	14.33	741.89	741.96
N	183+42.76	14.33	741.85	741.90
O	183+52.76	14.33	741.80	741.82
☒ Brg. Ex. Pier 1	183+60.01	14.33	741.76	741.76
P	183+70.01	14.33	741.70	741.70
Q	183+80.01	14.33	741.63	741.64
R	183+90.01	14.33	741.55	741.56
☒ Brg Ex. N. Abut.	184+02.51	14.33	741.45	741.45
Bk/ Ex. N. Abut.	184+04.80	14.33	741.42	741.42

 Entire sheet revised



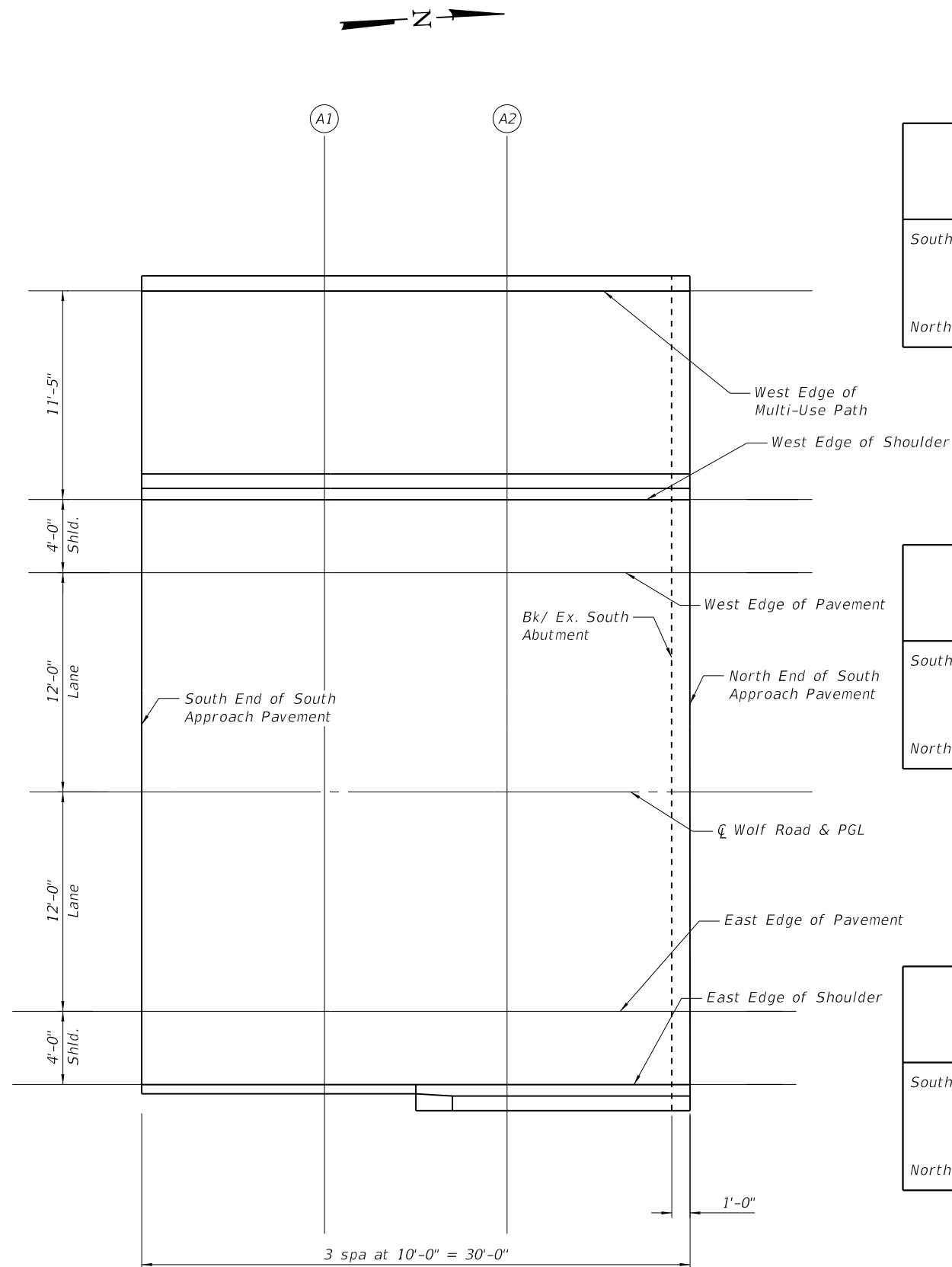
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS III
STRUCTURE NO. 099-0192

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2020-250-BY	WILL	133	70
			CONTRACT NO. 62N20	

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PLAN

Entire sheet revised

WEST EDGE OF MULTI-USE PATH

Location	Station	Offset (ft)	Theoretical Grade Elevations
South End South Appr. Pav't.	181+51.72	-27.42	740.92
A1	181+61.72	-27.42	741.03
A2	181+71.72	-27.42	741.13
North End South Appr. Pav't.	181+81.72	-27.42	741.23

☐ WOLF ROAD & PROFILE GRADE

Location	Station	Offset (ft)	Theoretical Grade Elevations
South End South Appr. Pav't.	181+51.72	0.00	741.41
A1	181+61.72	0.00	741.52
A2	181+71.72	0.00	741.62
North End South Appr. Pav't.	181+81.72	0.00	741.72

WEST EDGE OF SHOULDER

Location	Station	Offset (ft)	Theoretical Grade Elevations
South End South Appr. Pav't.	181+51.72	-16.00	741.15
A1	181+61.72	-16.00	741.26
A2	181+71.72	-16.00	741.36
North End South Appr. Pav't.	181+81.72	-16.00	741.46

EAST EDGE OF PAVEMENT

Location	Station	Offset (ft)	Theoretical Grade Elevations
South End South Appr. Pav't.	181+51.72	12.00	741.23
A1	181+61.72	12.00	741.34
A2	181+71.72	12.00	741.44
North End South Appr. Pav't.	181+81.72	12.00	741.54

WEST EDGE OF PAVEMENT

Location	Station	Offset (ft)	Theoretical Grade Elevations
South End South Appr. Pav't.	181+51.72	-12.00	741.23
A1	181+61.72	-12.00	741.34
A2	181+71.72	-12.00	741.44
North End South Appr. Pav't.	181+81.72	-12.00	741.54

EAST EDGE OF SHOULDER

Location	Station	Offset (ft)	Theoretical Grade Elevations
South End South Appr. Pav't.	181+51.72	16.00	741.15
A1	181+61.72	16.00	741.26
A2	181+71.72	16.00	741.36
North End South Appr. Pav't.	181+81.72	16.00	741.46

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

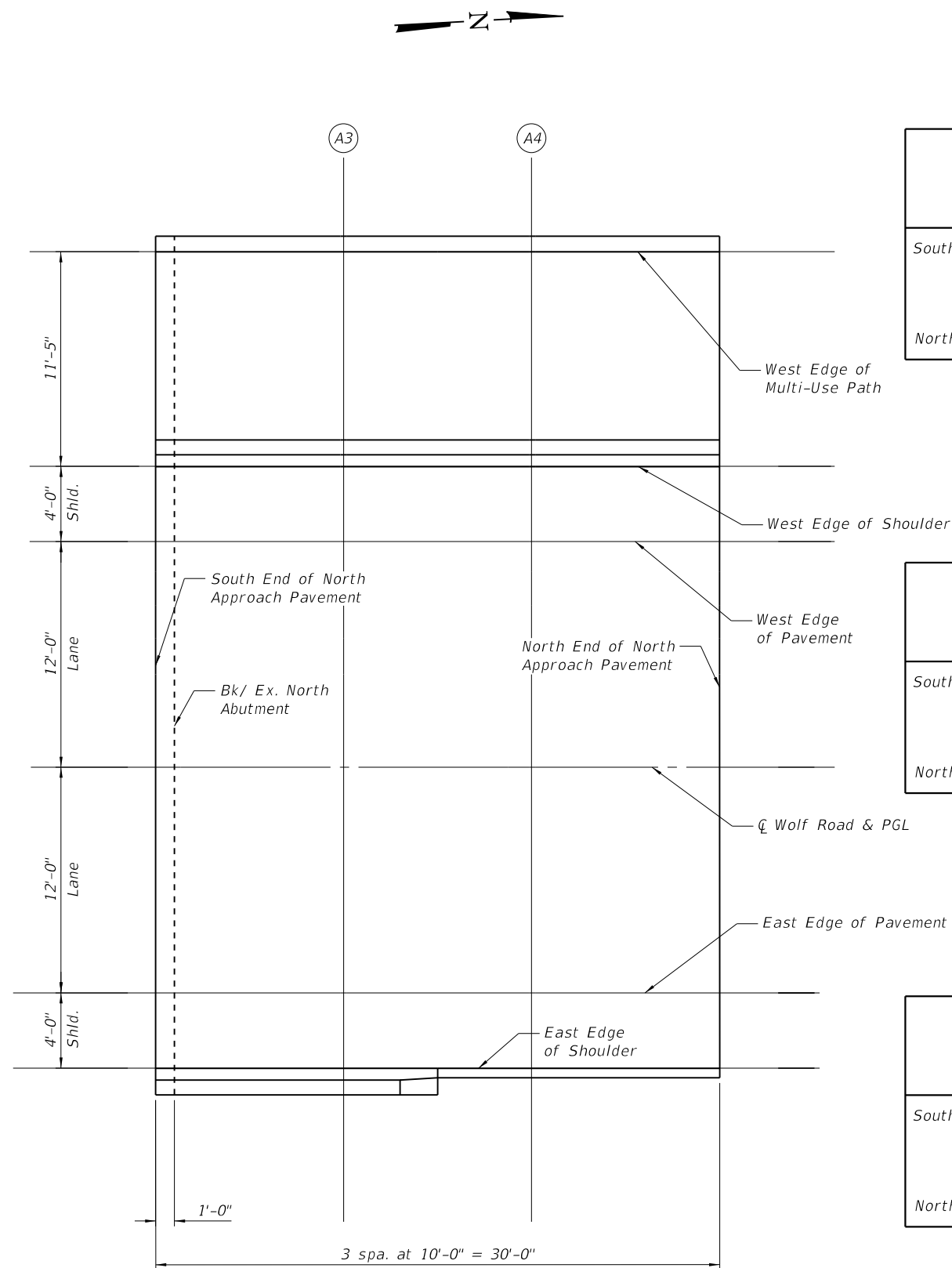
**TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 099-0192**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2020-250-BY	WILL	133	71
				CONTRACT NO. 62N20

SHEET 9 OF 38 SHEETS

ILLINOIS

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PLAN

1 Entire sheet revised

WEST EDGE OF MULTI-USE PATH

Location	Station	Offset (ft)	Theoretical Grade Elevations
South End North Appr. Pav't.	184+03.80	-27.42	741.17
A3	184+13.80	-27.42	741.07
A4	184+23.80	-27.42	740.97
North End North Appr. Pav't.	184+33.80	-27.42	740.85

☐ WOLF ROAD & PROFILE GRADE

Location	Station	Offset (ft)	Theoretical Grade Elevations
South End North Appr. Pav't.	184+03.80	0.00	741.66
A3	184+13.80	0.00	741.56
A4	184+23.80	0.00	741.46
North End North Appr. Pav't.	184+33.80	0.00	741.34

WEST EDGE OF SHOULDER

Location	Station	Offset (ft)	Theoretical Grade Elevations
South End North Appr. Pav't.	184+03.80	-16.00	741.40
A3	184+13.80	-16.00	741.30
A4	184+23.80	-16.00	741.20
North End North Appr. Pav't.	184+33.80	-16.00	741.08

EAST EDGE OF PAVEMENT

Location	Station	Offset (ft)	Theoretical Grade Elevations
South End North Appr. Pav't.	184+03.80	12.00	741.48
A3	184+13.80	12.00	741.38
A4	184+23.80	12.00	741.28
North End North Appr. Pav't.	184+33.80	12.00	741.16

WEST EDGE OF PAVEMENT

Location	Station	Offset (ft)	Theoretical Grade Elevations
South End North Appr. Pav't.	184+03.80	-12.00	741.48
A3	184+13.80	-12.00	741.38
A4	184+23.80	-12.00	741.28
North End North Appr. Pav't.	184+33.80	-12.00	741.16

EAST EDGE OF SHOULDER

Location	Station	Offset (ft)	Theoretical Grade Elevations
South End North Appr. Pav't.	184+03.80	16.00	741.40
A3	184+13.80	16.00	741.30
A4	184+23.80	16.00	741.20
North End North Appr. Pav't.	184+33.80	16.00	741.08

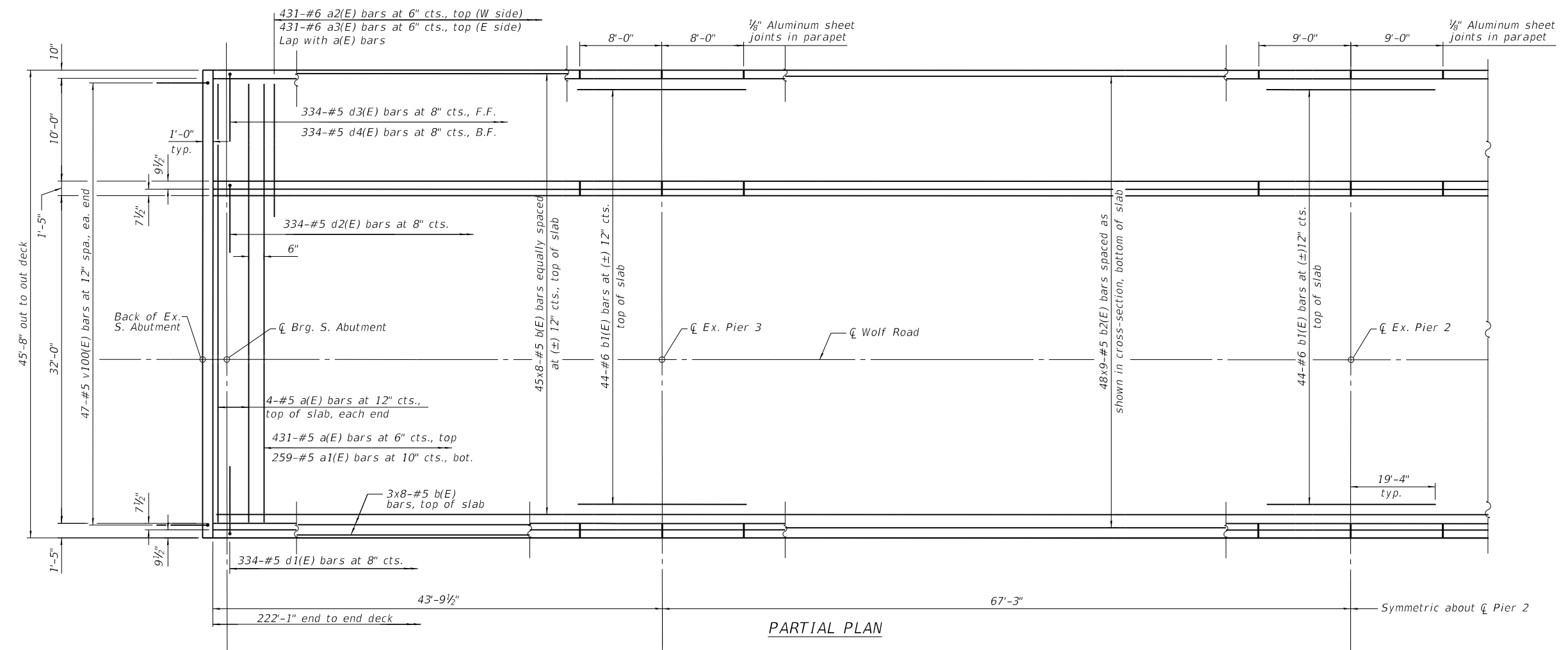
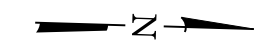
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 099-0192**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2020-250-BY	WILL	133	72
			CONTRACT NO. 62N20	

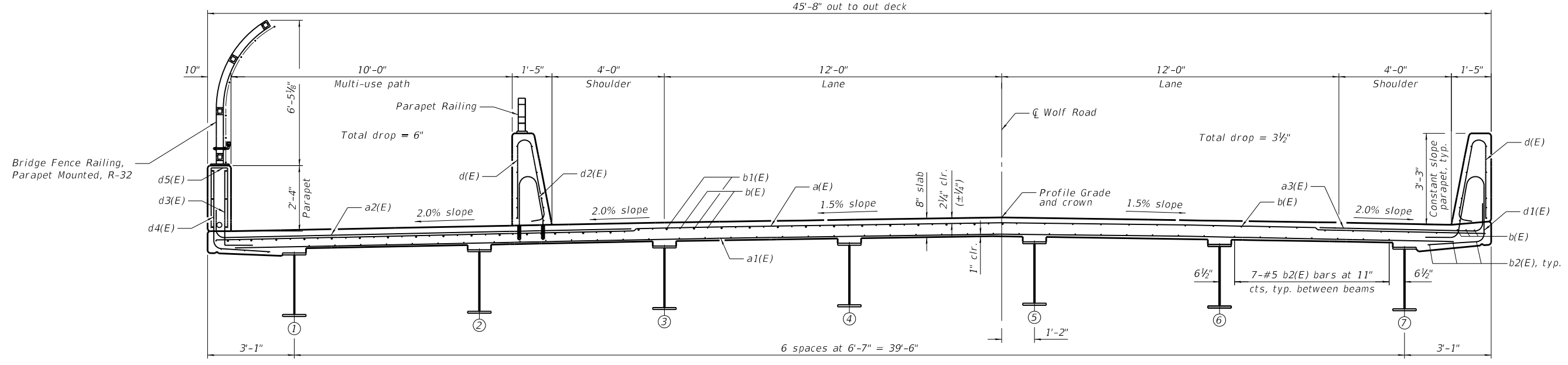
SHEET 10 OF 38 SHEETS

ILLINOIS



PARTIAL PLAN

MINIMUM BAR LAP
 #5 bar = 3'-6"
 #6 bar = 4'-10"



CROSS-SECTION
(Looking North)

Notes:
 See sheet 13 of 38 for superstructure details and Bill of Materials.
 Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line

1 Entire sheet revised

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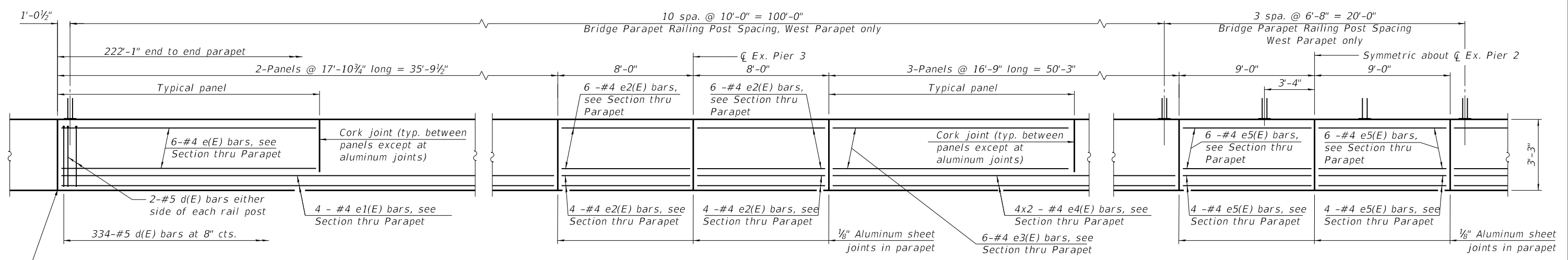
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE PLAN AND SECTION
STRUCTURE NO. 099-0192

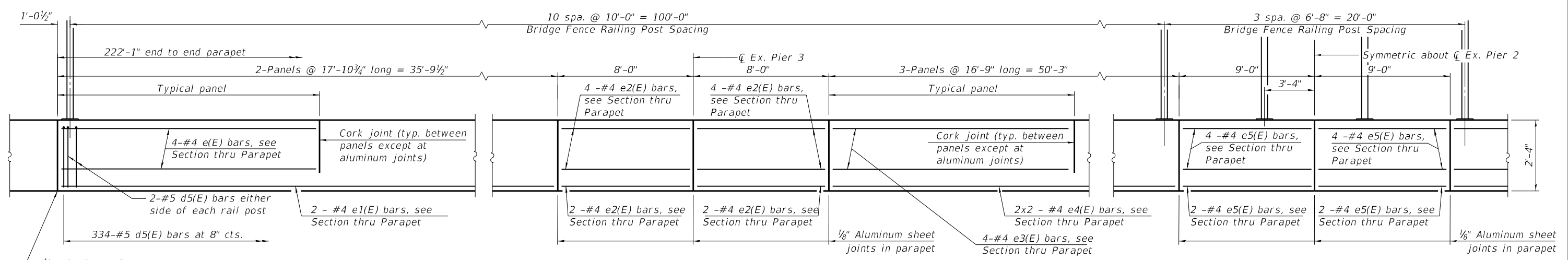
SHEET 11 OF 38 SHEETS

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

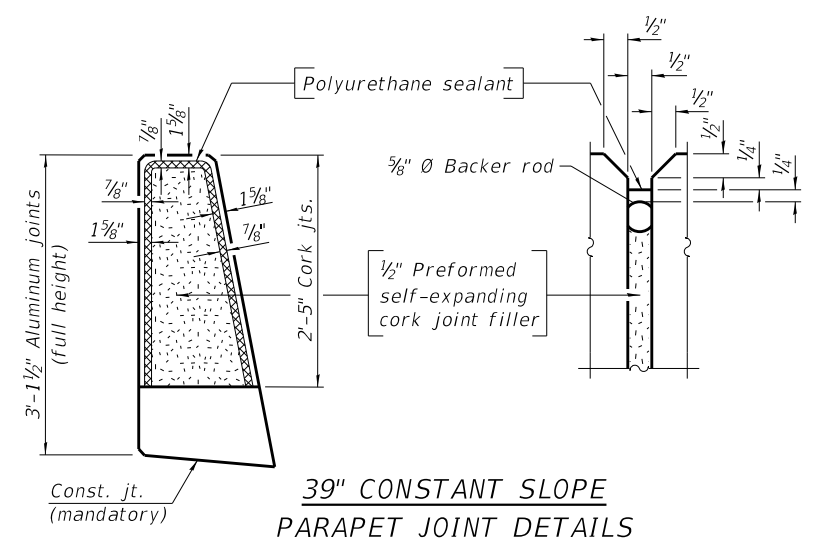
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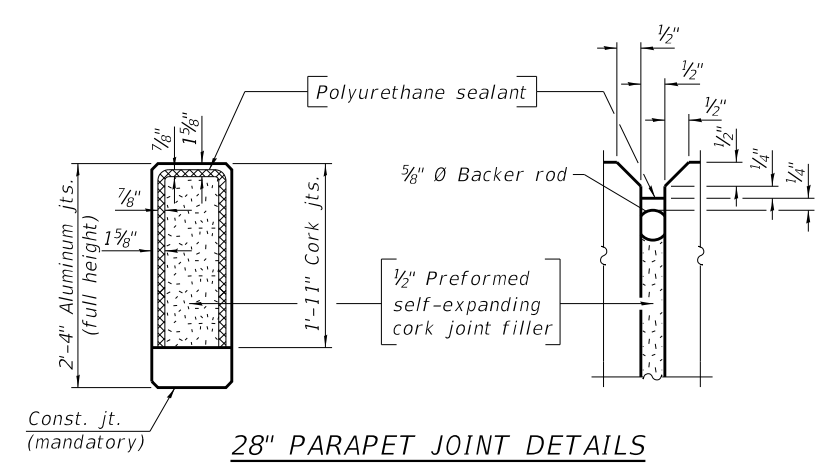
INSIDE ELEVATION OF 39" CONSTANT SLOPE PARAPET



INSIDE ELEVATION OF 28" PARAPET



39" CONSTANT SLOPE PARAPET JOINT DETAILS



28" PARAPET JOINT DETAILS

MINIMUM BAR LAP
#4 bar = 2'-5"

Notes:
 See Sheet 13 of 38 for superstructure details and Bill of Materials.
 The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included in Concrete Superstructure.
 The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.

Entire sheet revised

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CHECKED MG	REVISIONS	
PLOT SCALE =	DRAWN MG	REVISIONS
PLOT DATE = 4/8/2022	CHECKED KJA	REVISIONS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

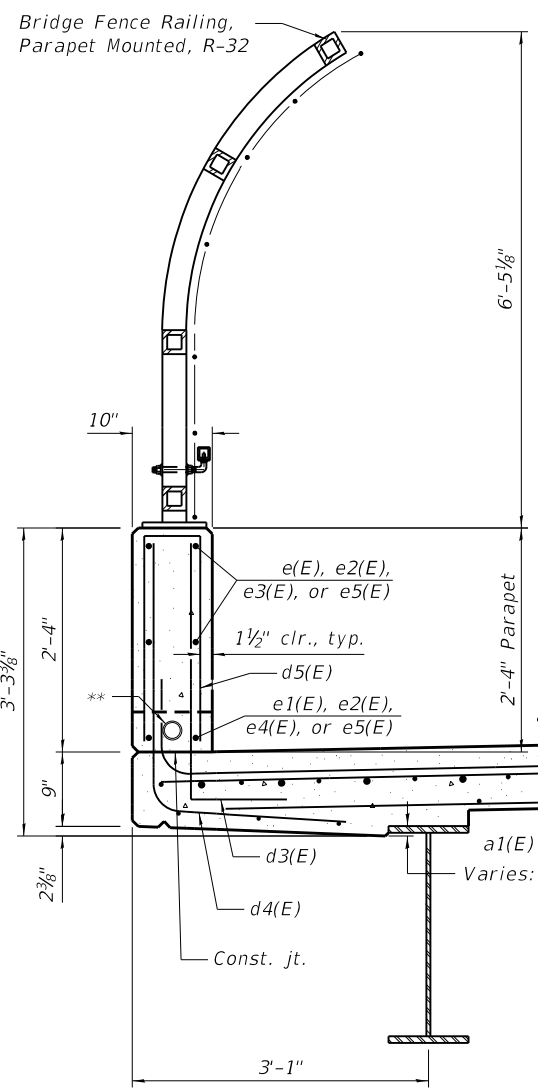
**PARAPET ELEVATION AND DETAILS
STRUCTURE NO. 099-0192**

SHEET 12 OF 38 SHEETS

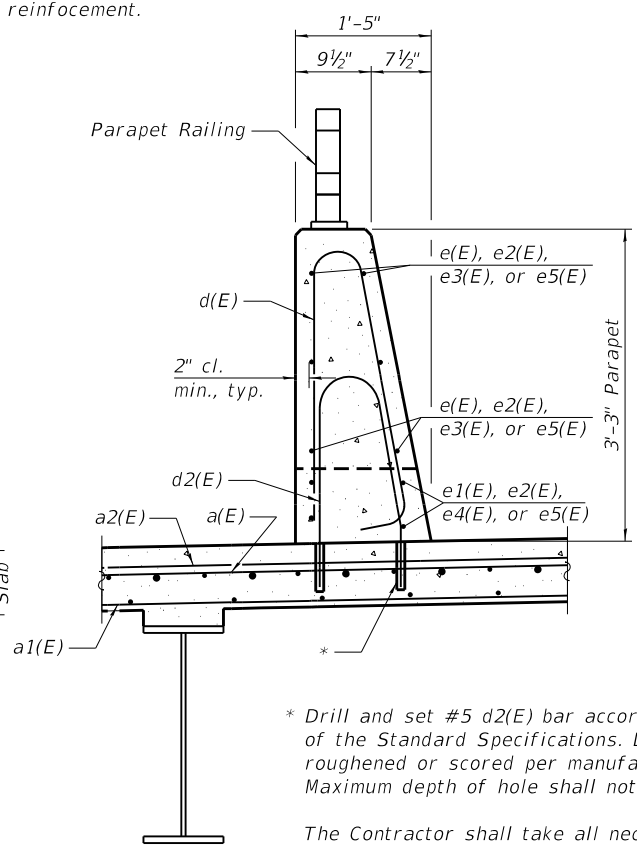
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			CONTRACT NO. 62N20	

ILLINOIS

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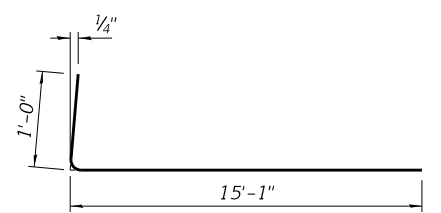
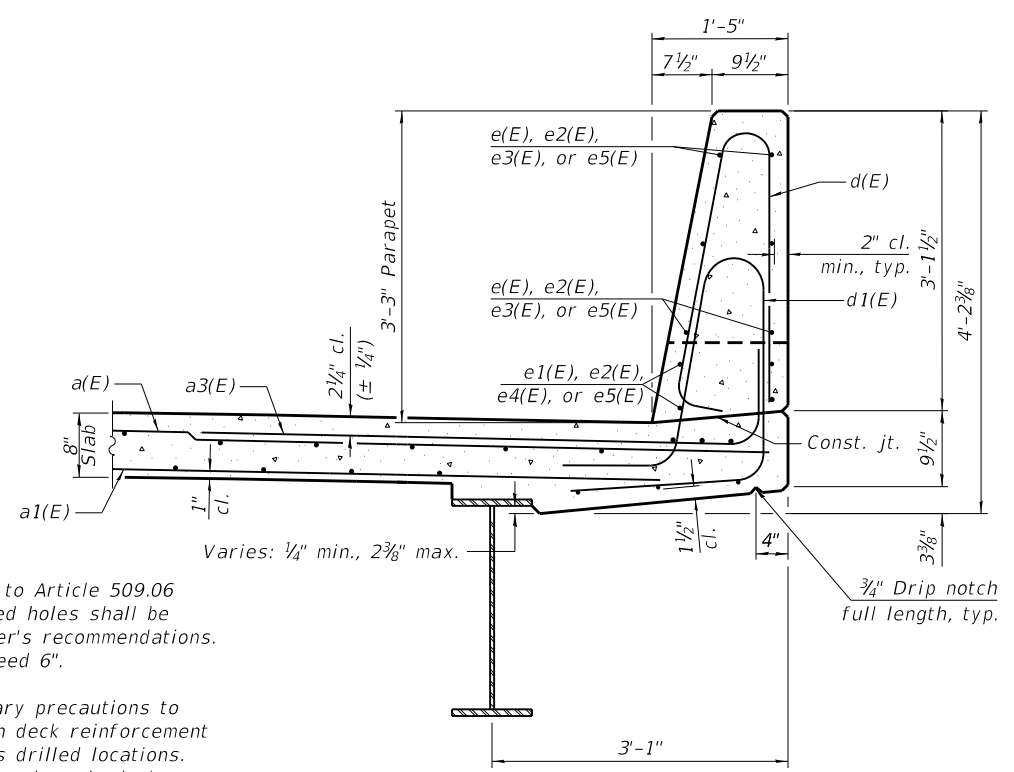


** 2" PVC Conduit for Traffic Signal cable, see Roadway Plans. Maintain 1 1/2" clearance from reinforcement.

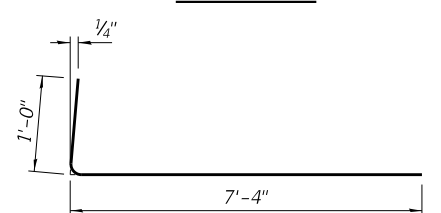


* Drill and set #5 d2(E) bar according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6".

The Contractor shall take all necessary precautions to prevent drilled hole interference with deck reinforcement bars. Locate longitudinal bars to miss drilled locations. Locate drilled holes to miss transverse bars in deck.



BAR a2(E)

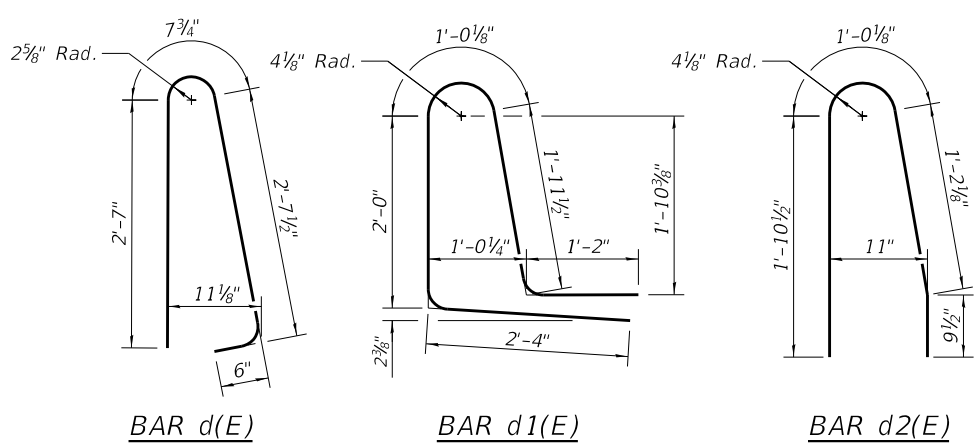


BAR a3(E)

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	439	#5	45'-4"	—
a1(E)	259	#5	45'-4"	—
a2(E)	431	#6	16'-1"	—
a3(E)	431	#6	8'-4"	—
b(E)	384	#5	30'-10"	—
b1(E)	132	#6	38'-8"	—
b2(E)	432	#5	27'-8"	—
d(E)	714	#5	6'-5"	⌋
d1(E)	334	#5	8'-6"	⌋
d2(E)	334	#5	4'-11"	⌋
d3(E)	334	#5	3'-6"	⌋
d4(E)	334	#5	3'-7"	⌋
d5(E)	380	#5	4'-7"	⌋
e(E)	64	#4	17'-7"	—
e1(E)	20	#4	35'-6"	—
e2(E)	104	#4	7'-8"	—
e3(E)	96	#4	16'-5"	—
e4(E)	40	#4	26'-2"	—
e5(E)	52	#4	8'-8"	—
m10(E)	8	#6	45'-4"	—
m11(E)	48	#6	6'-3"	—
m12(E)	16	#6	2'-9"	—
m13(E)	4	#4	45'-4"	—
s10(E)	100	#5	6'-2"	⌋
s11(E)	100	#5	8'-0"	⌋
u10(E)	100	#4	3'-6"	U
v100(E)	94	#5	3'-1"	⌋
Reinforcement Bars, Epoxy Coated		Lbs.		102,040
Concrete Superstructure		Cu. Yds.		362.5
Bridge Deck Grooving		Sq. Yd.		741
Protective Coat		Sq. Yd.		1,398

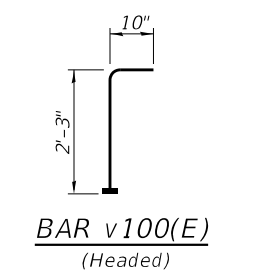
Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.



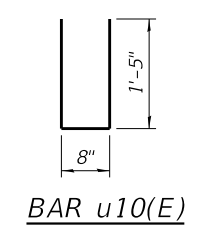
BAR d(E)

BAR d1(E)

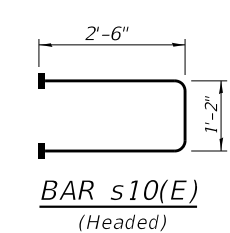
BAR d2(E)



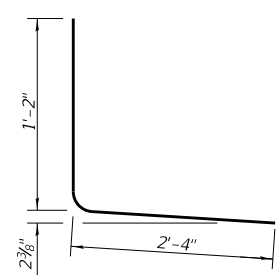
BAR v100(E)
(Headed)



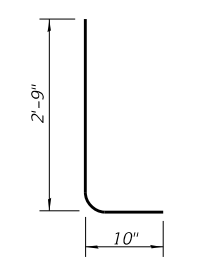
BAR u10(E)



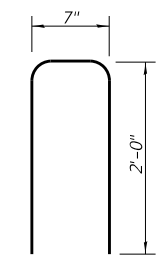
BAR s10(E)
(Headed)



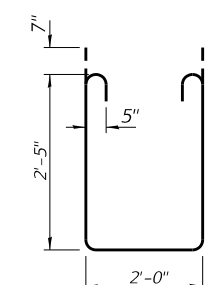
BAR d3(E)



BAR d4(E)



BAR d5(E)



BAR s11(E)

Notes:
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

1 Entire sheet revised



USER NAME =	kanderson	DESIGNED	KJA	REVISED	4/8/2022	KJA
CHECKED	MG	REVISION	-			
PLOT SCALE =		DRAWN	MG	REVISION	-	
PLOT DATE =	4/8/2022	CHECKED	KJA	REVISION	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

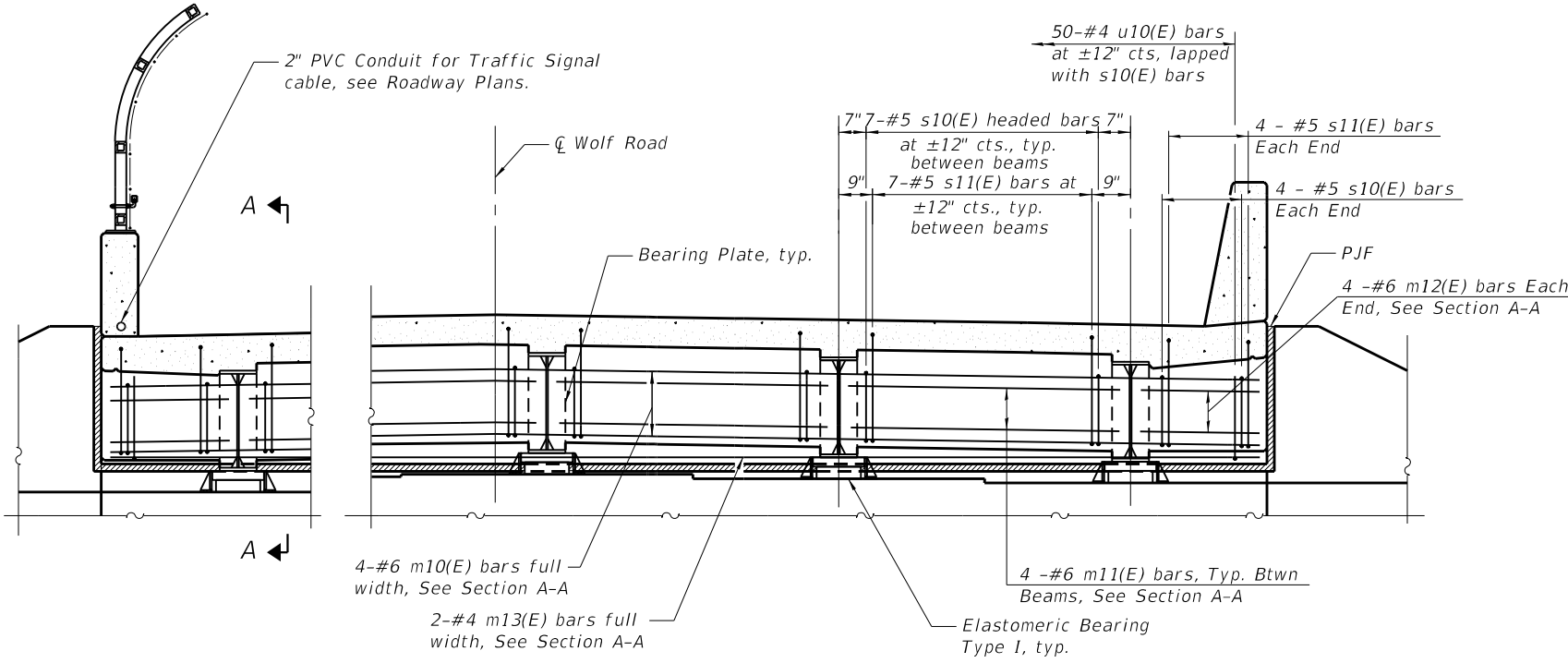
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 099-0192

SHEET 13 OF 38 SHEETS

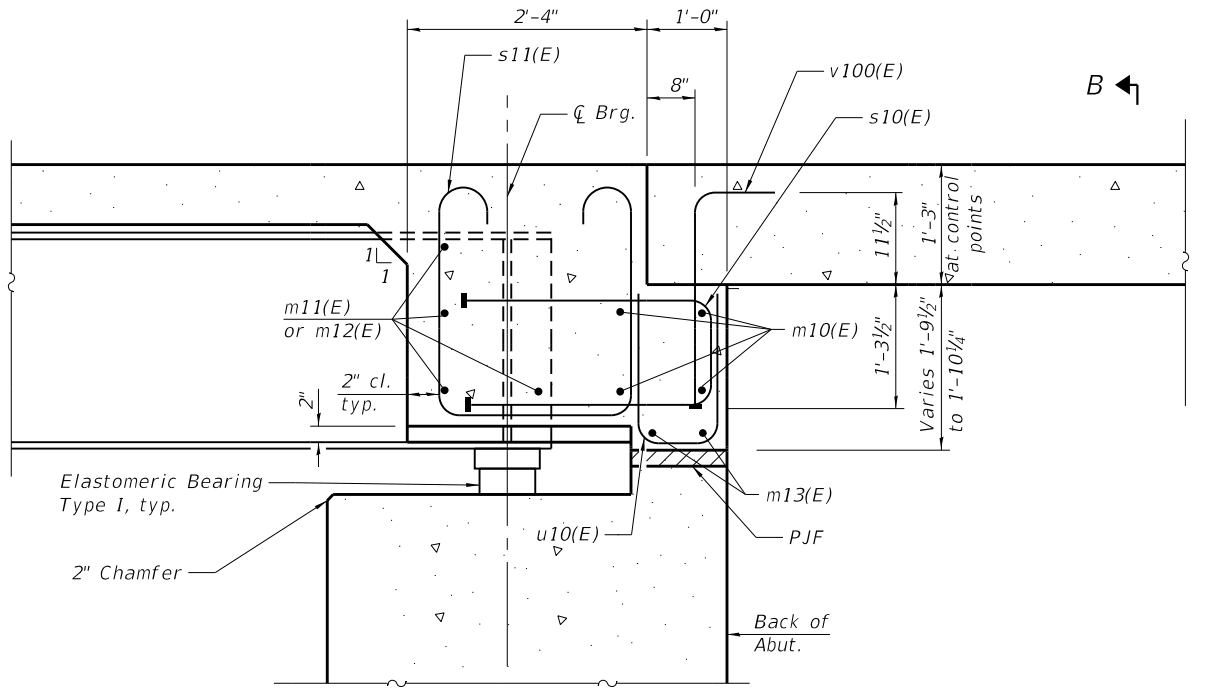
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80	2020-250-BY	WILL	133	75
			CONTRACT NO. 62N20	

ILLINOIS

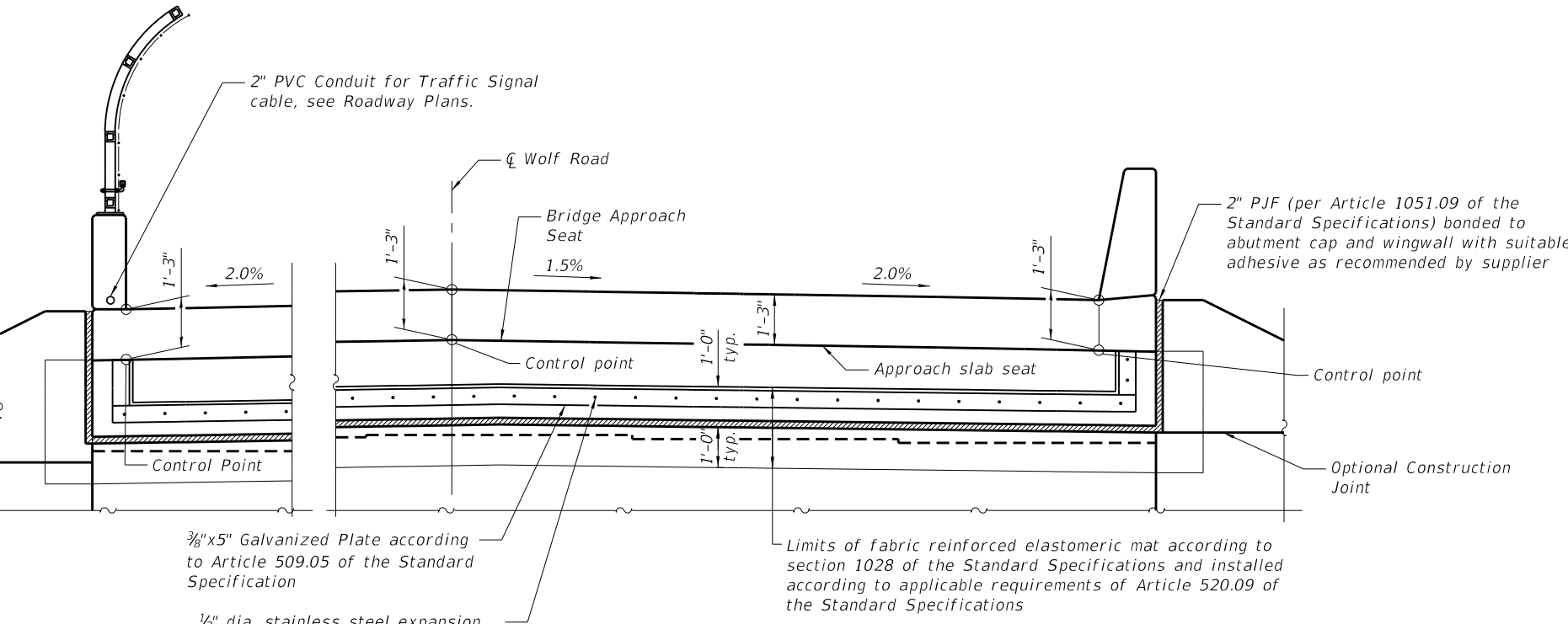
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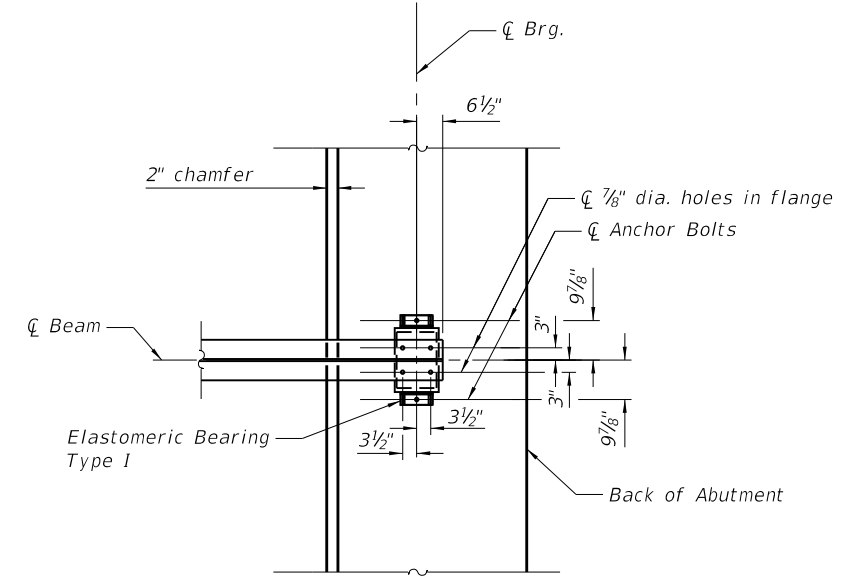
DIAPHRAGM AT ABUTMENT



SECTION A-A



VIEW B-B



PLAN AT ABUTMENT
(Showing bottom flange of beam)

Notes:
 See sheet 13 of 38 for superstructure details and Bill of Material.
 Cost of fabric reinforced elastomeric mat, galvanized plate, preformed joint filler, stainless steel expansion bolts with nuts and washers and installation are included in the cost of Concrete Superstructure.

Entire sheet revised



USER NAME = kanderson	DESIGNED KJA	REVISED 1 4/8/2022 KJA
CHECKED MG	REVISIONS -	
PLOT SCALE =	DRAWN MG	REVISIONS -
PLOT DATE = 4/8/2022	CHECKED KJA	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

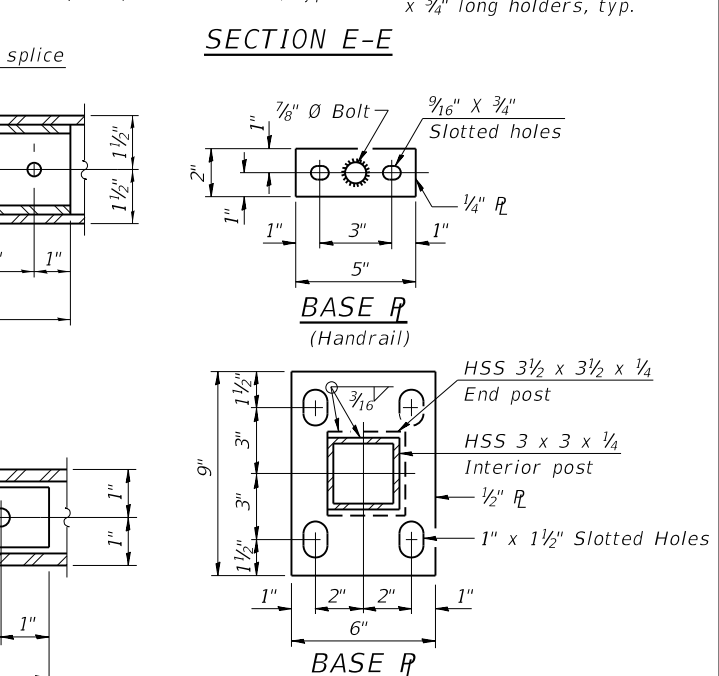
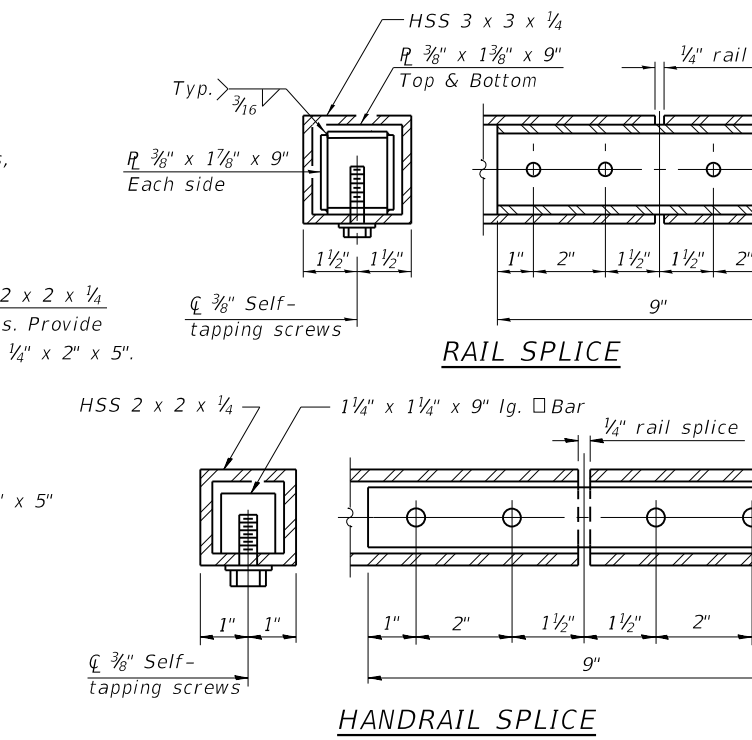
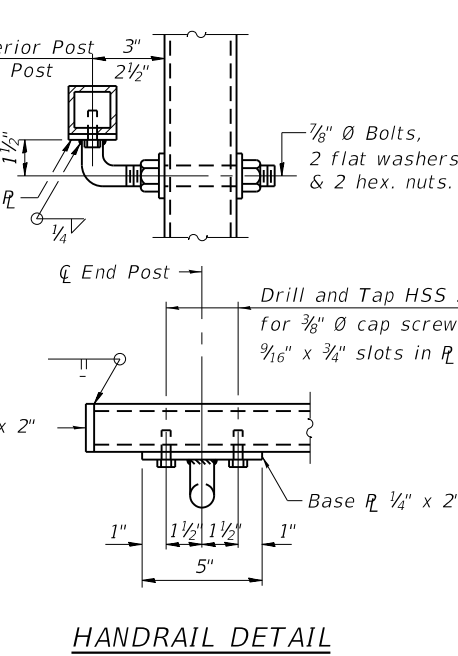
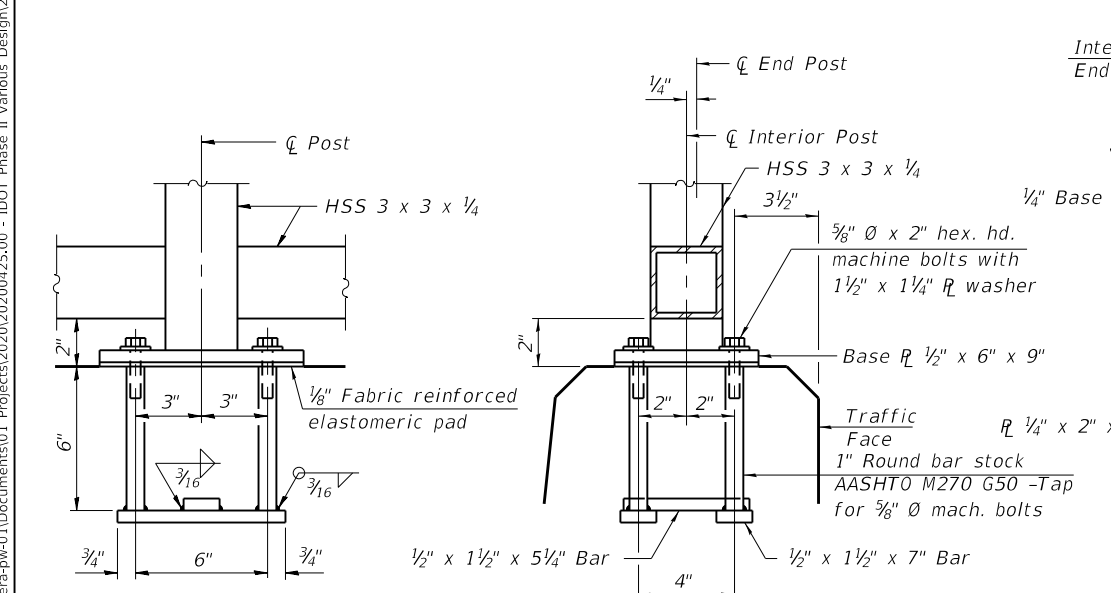
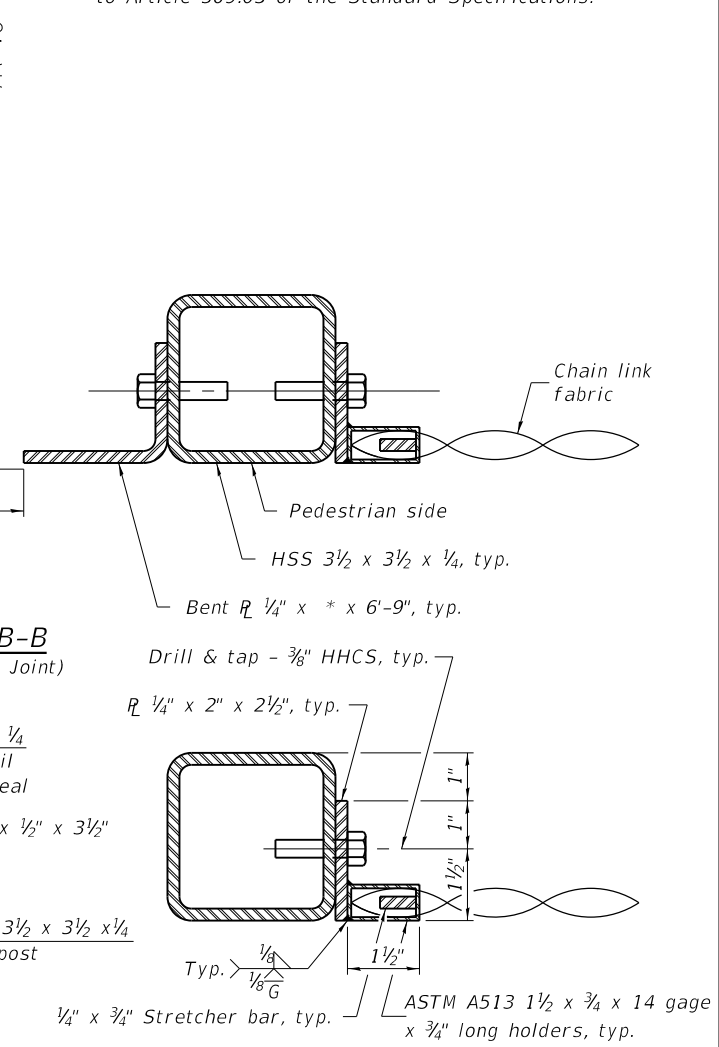
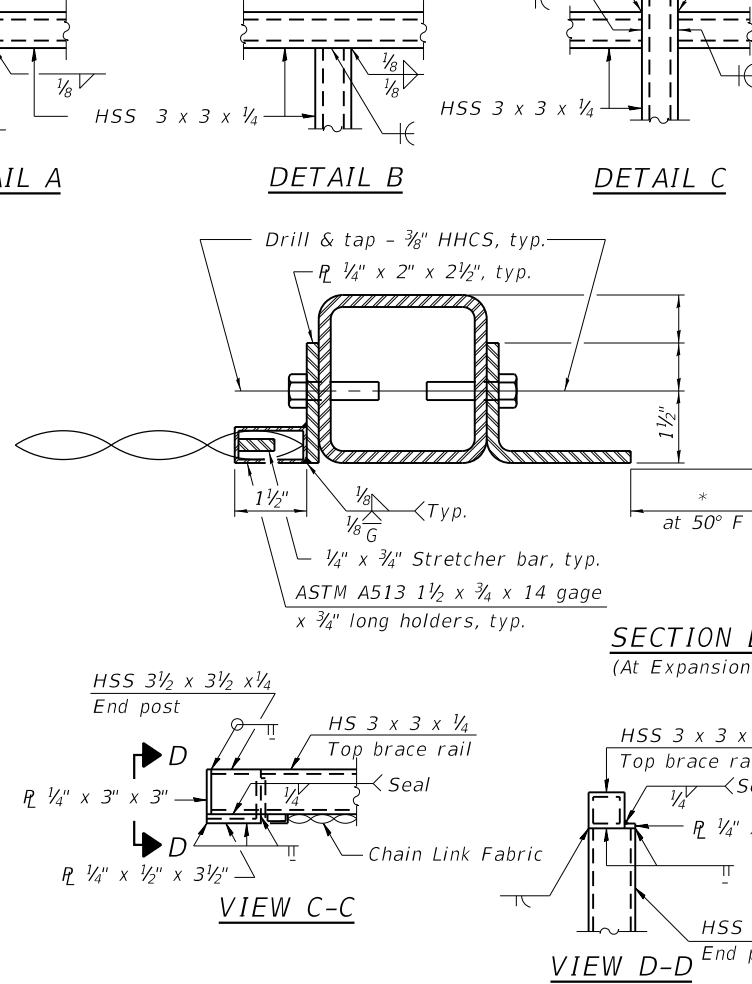
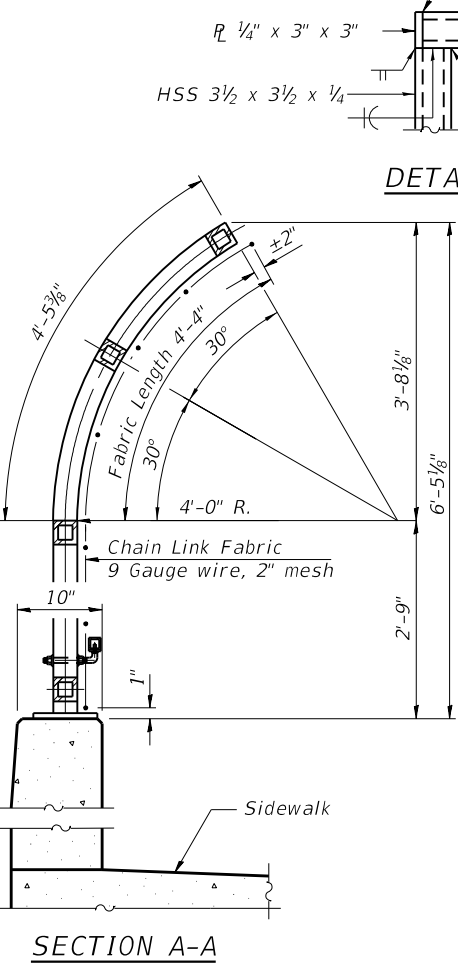
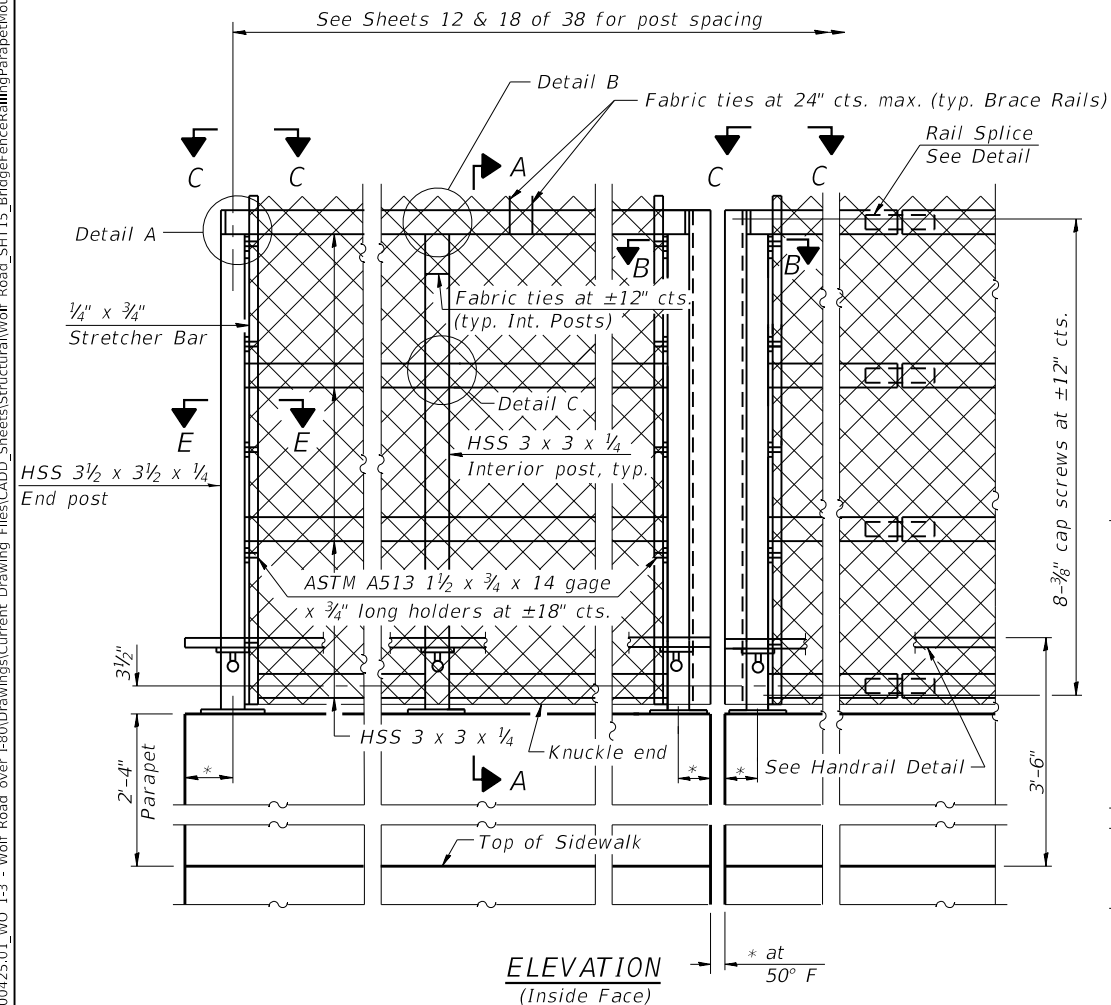
DIAPHRAGM DETAILS
STRUCTURE NO. 099-0192

SHEET 14 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2020-250-BY	WILL	133	76
			CONTRACT NO. 62N20	
ILLINOIS				

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 100 S. WACKER DRIVE SUITE 700, CHICAGO, IL 60606 - P.312-405-8910 F.312-406-4145
 4/8/2022 2:35:52 PM

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



ANCHOR BOLT DETAILS
 In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" Ø anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

Note:
 CVN testing may be omitted for the railing.

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Fence Railing	Foot	278

R-32

1-14-2019
 (10'-0" Maximum Post Spacing)

Entire sheet revised

USER NAME	DESIGNED	REVISION
kanderson	KJA	4/8/2022 KJA
	MG/ZM	
	KC	
	KJA	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE FENCE RAILING, PARAPET MOUNTED
 STRUCTURE NO. 099-0192**

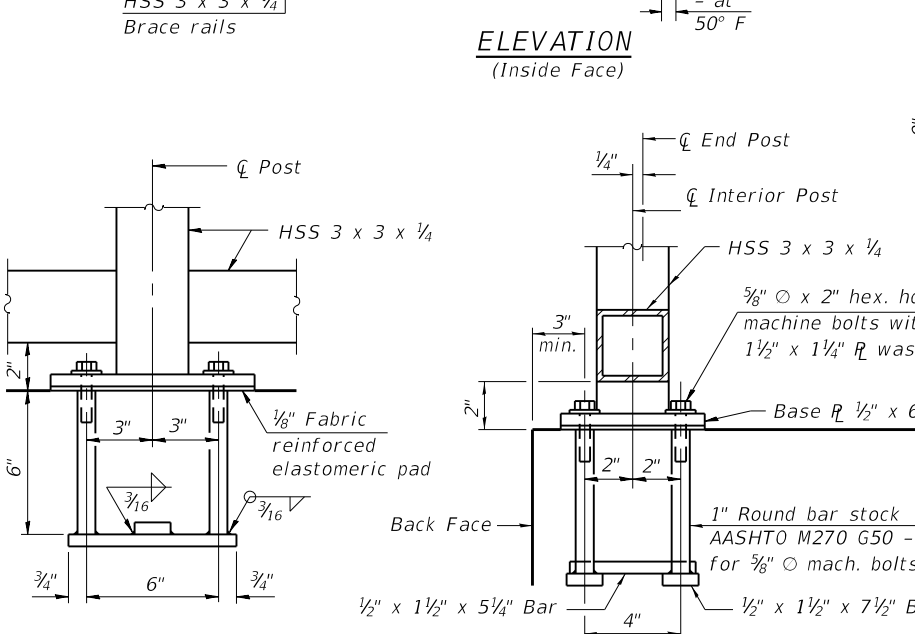
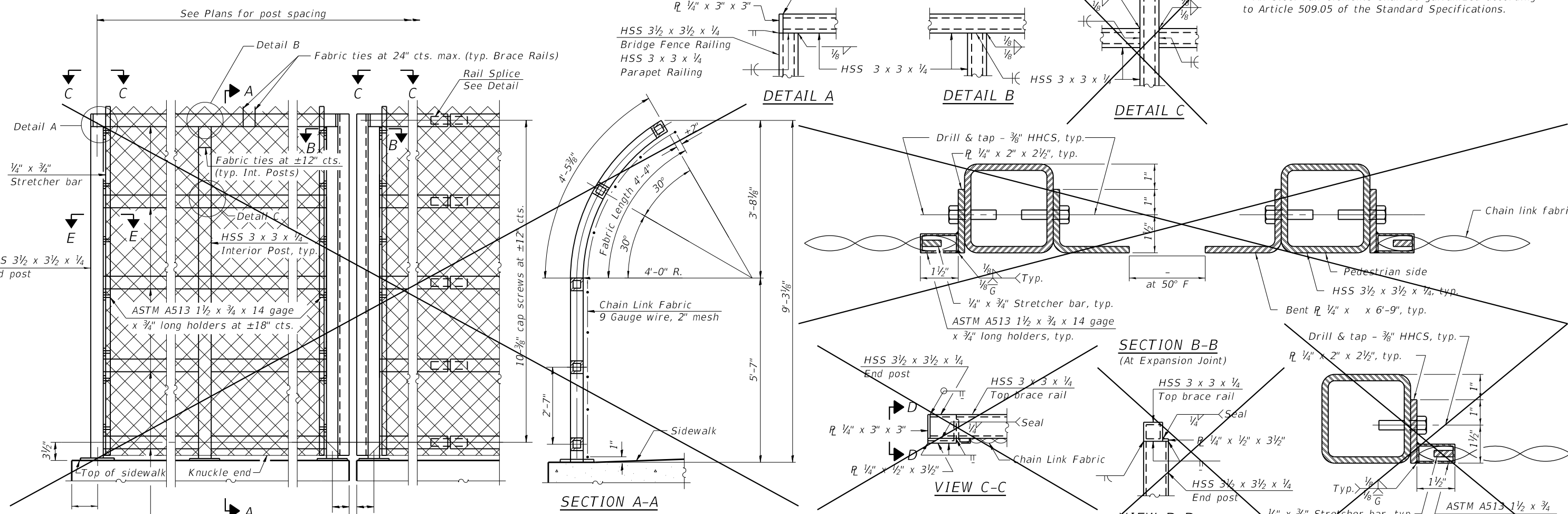
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2020-250-BY	WILL	133	77
			CONTRACT NO. 62N20	

SHEET 15 OF 38 SHEETS

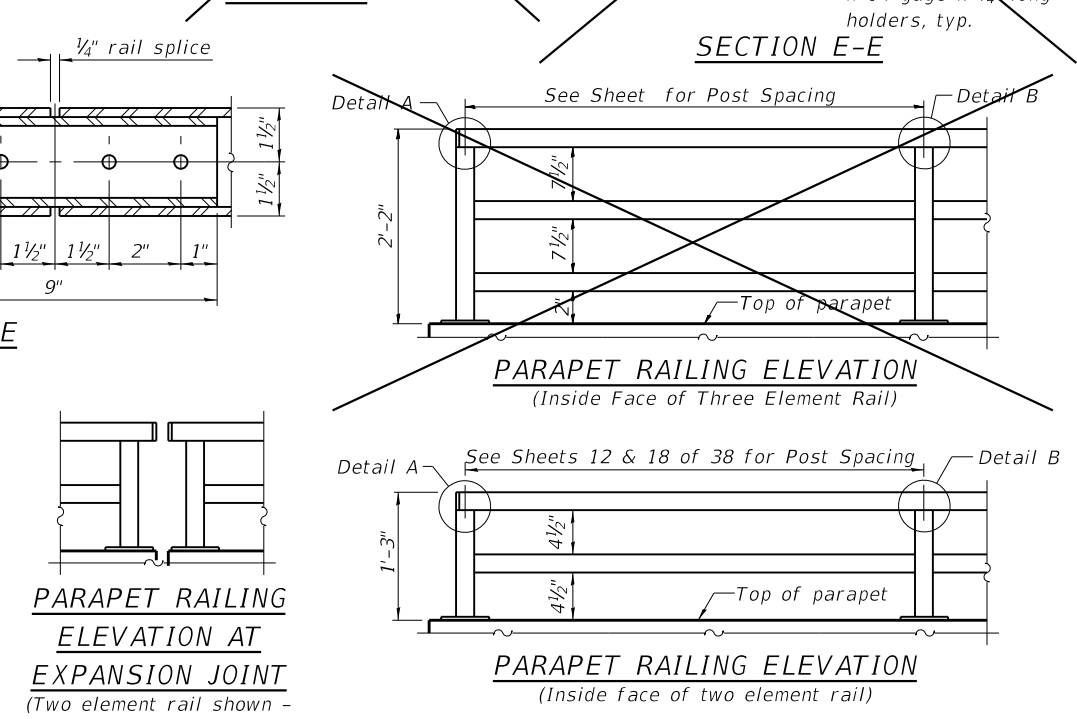
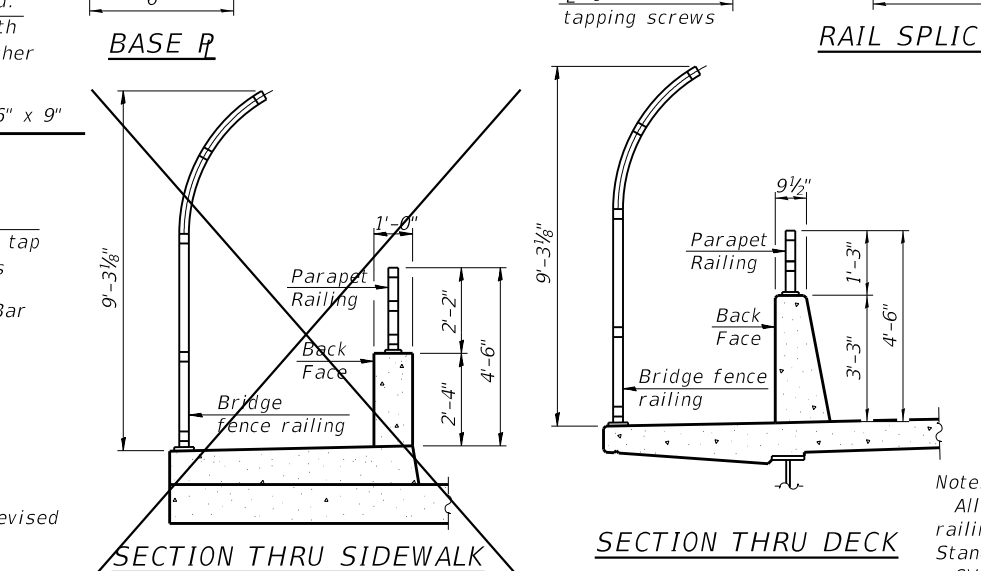
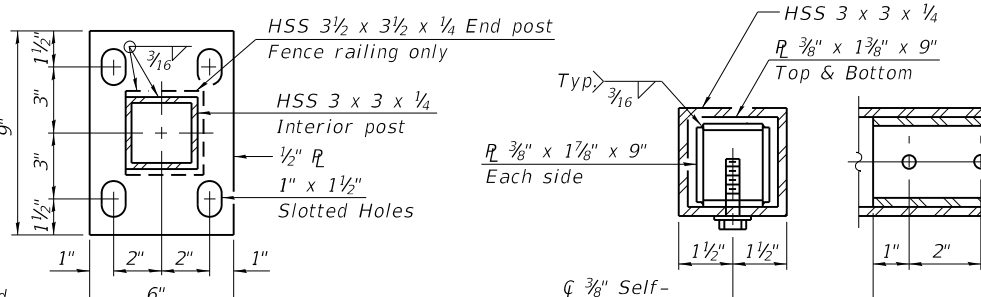
ILLINOIS

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

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ANCHOR BOLT DETAILS
 In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" O anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



PARAPET RAILING ELEVATION AT EXPANSION JOINT
 (Two element rail shown - Three element rail similar)

BILL OF MATERIAL

Item	Unit	Quantity
Parapet Railing	Foot	278

Notes:
 All structural steel tubing, post and railing, for parapet railing shall be CVN tested according to 1006.34(b) of the Standard Specifications.
 CVN testing may be omitted for the Bridge Fence Railing.

R-33 1-14-2019 (10'-0" Maximum Post Spacing)

USER NAME = kanderson	DESIGNED KJA	REVISED 1 4/8/2022 KJA
CHECKED MG/ZM	REVISION -	
DRAWN KC	REVISION -	
CHECKED KJA	REVISION -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

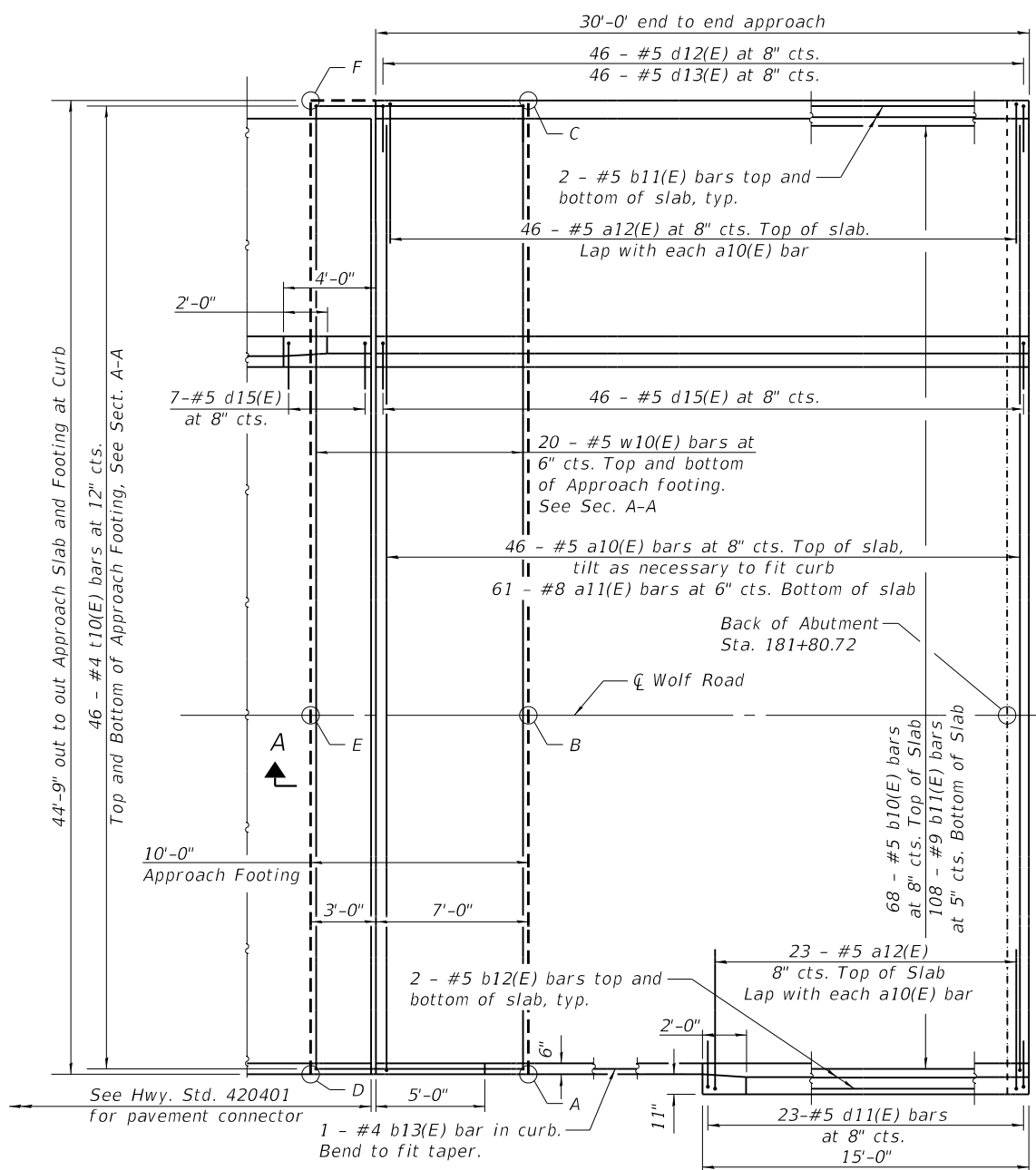
PARAPET RAILING
 STRUCTURE NO. 099-0192

F.A.I. RTE. 80	SECTION 2020-250-BY	COUNTY WILL	TOTAL SHEETS 133	SHEET NO. 78
			CONTRACT NO. 62N20	

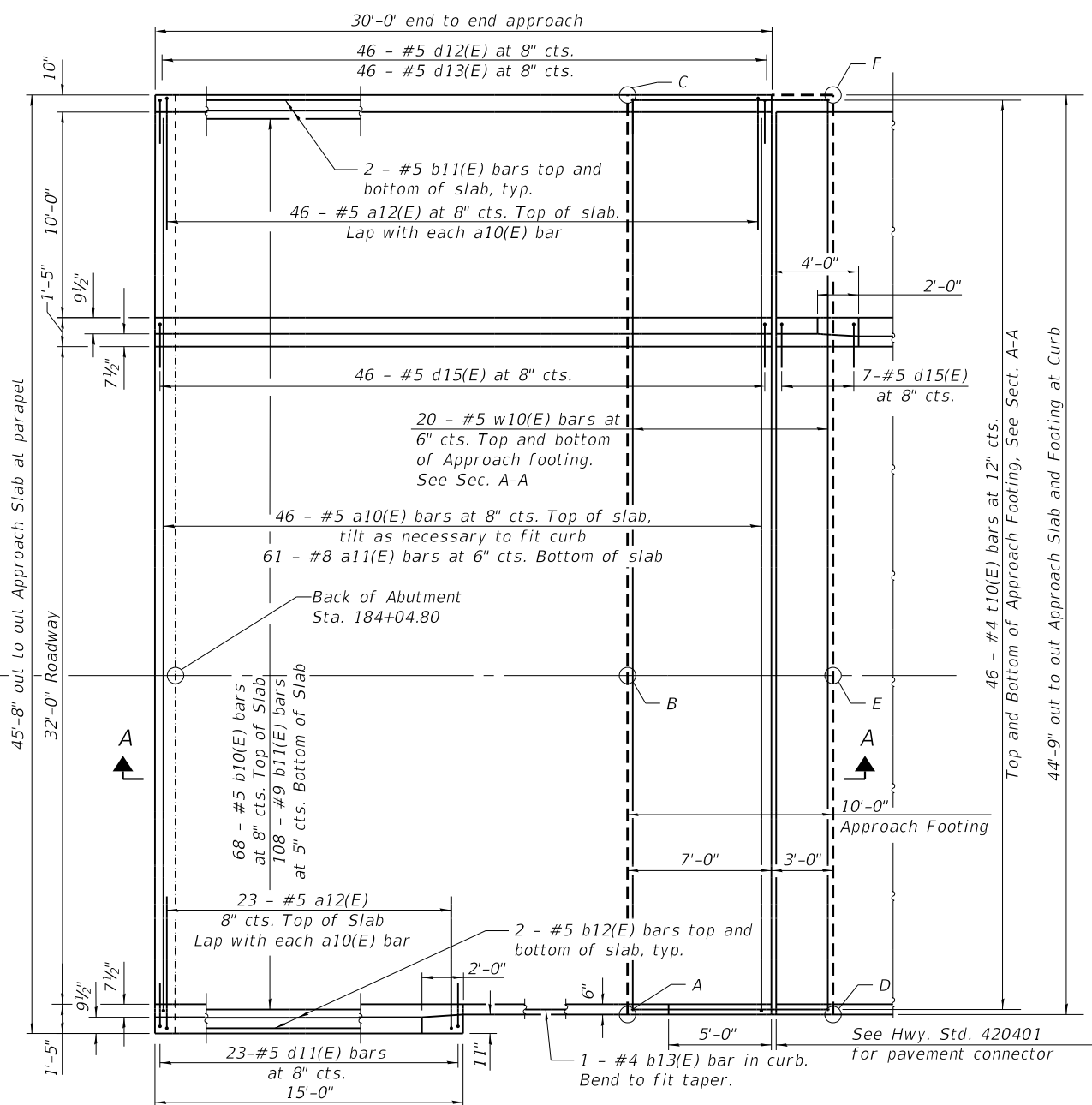
SHEET 16 OF 38 SHEETS

ILLINOIS

MODEL: Default
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SOUTH APPROACH PLAN



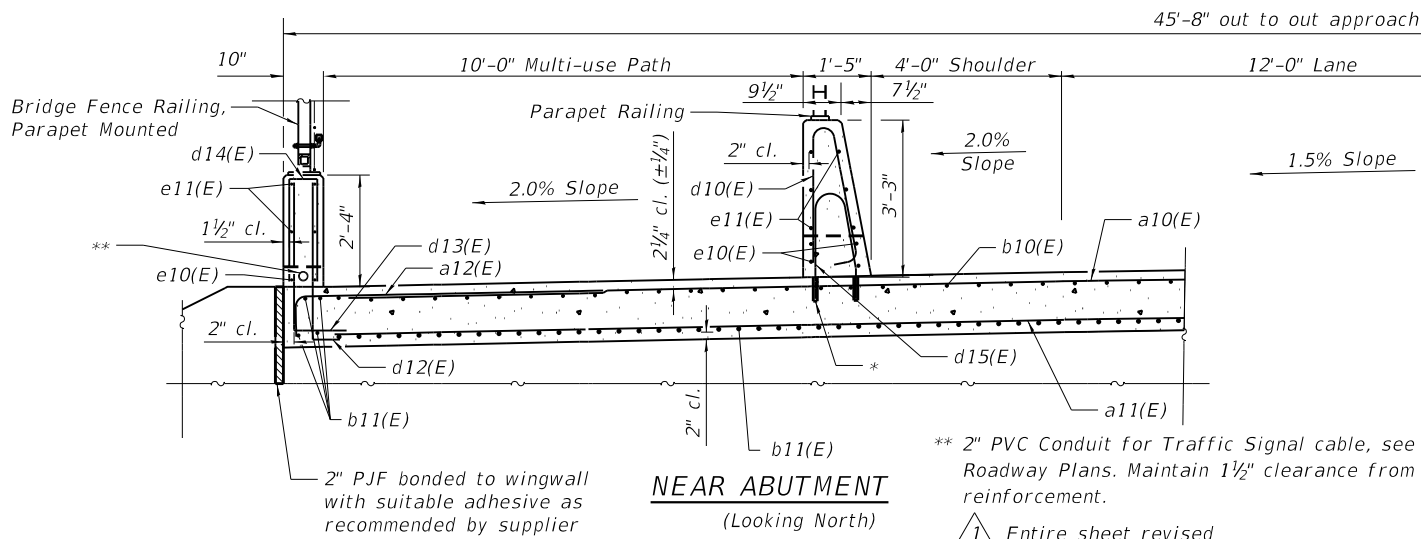
NORTH APPROACH PLAN

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

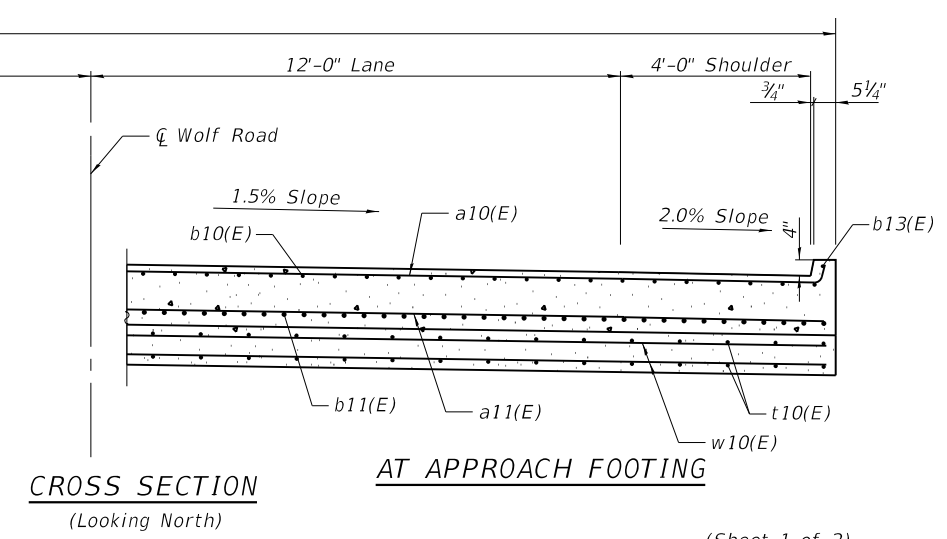
Point	North Approach		South Approach	
	Top	Bottom	Top	Bottom
A	739.90	739.07	739.97	739.14
B	740.17	739.34	740.24	739.41
C	739.68	738.85	739.74	738.91
D	739.79	738.96	739.86	738.03
E	740.06	739.23	740.13	739.30
F	739.56	738.73	739.63	738.80

* Drill and set #5 d15(E) bar according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6".

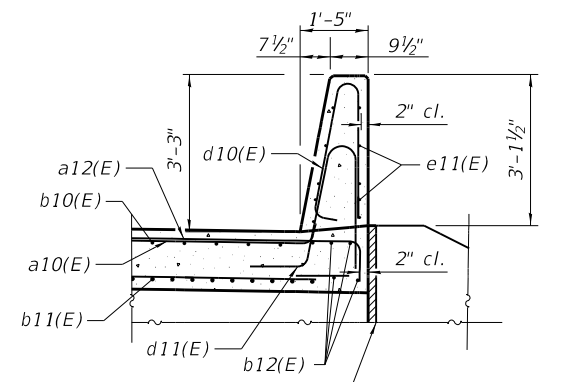
The Contractor shall take all necessary precautions to prevent drilled hole interference with slab reinforcement bars. Locate longitudinal bars to miss drilled locations. Located drilled holes to miss transverse bars in slab.



NEAR ABUTMENT (Looking North)



CROSS SECTION (Looking North)



EAST 39" CONSTANT SLOPE PARAPET AT ABUTMENT

** 2" PVC Conduit for Traffic Signal cable, see Roadway Plans. Maintain 1 1/2" clearance from reinforcement.
 Entire sheet revised

(Sheet 1 of 2)



USER NAME = kanderson	DESIGNED KJA	REVISED 4/8/2022 KJA
CHECKED MGZM		
PLOT SCALE =	DRAWN KC	REVISED -
PLOT DATE = 4/8/2022	CHECKED KJA	REVISED -

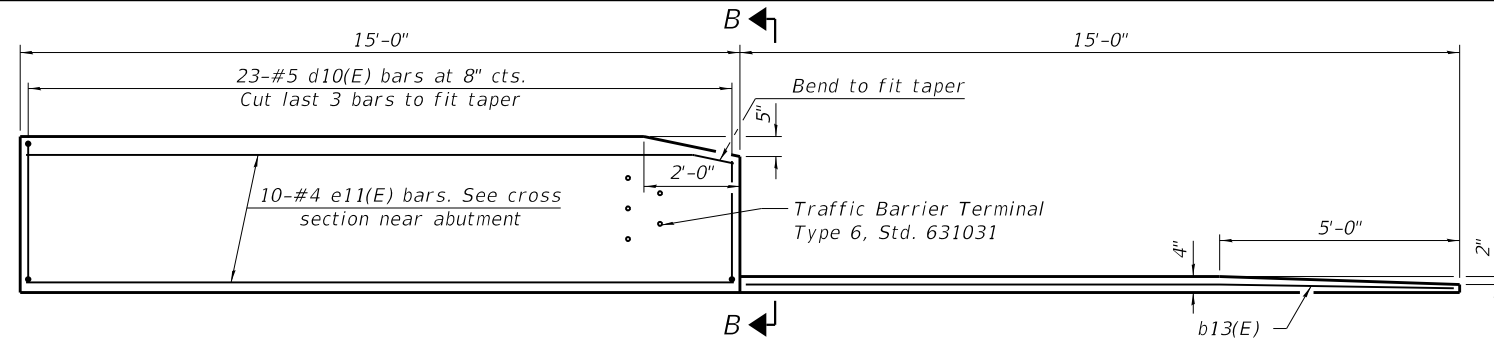
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB PLAN AND SECTION STRUCTURE NO. 099-0192

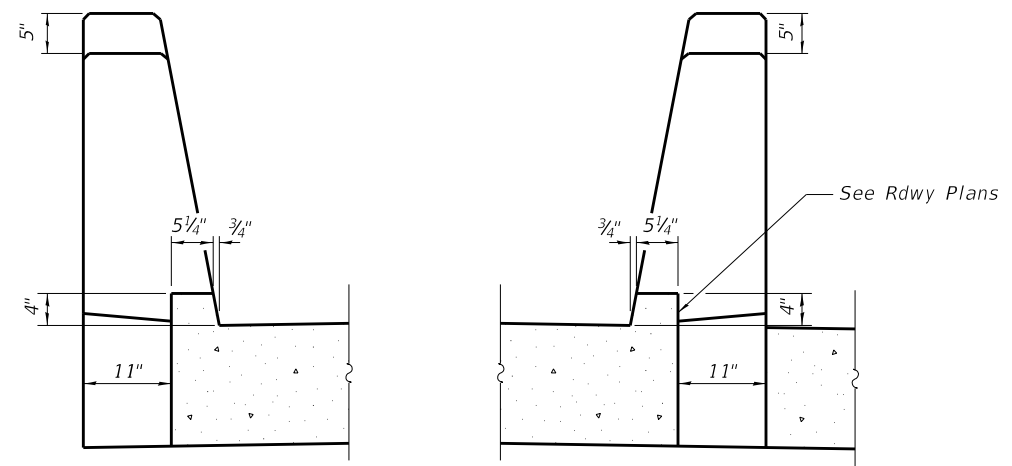
SHEET 17 OF 38 SHEETS

F.A.I. RTE. 80	SECTION 2020-250-BY	COUNTY WILL	TOTAL SHEETS 133	SHEET NO. 79
			CONTRACT NO. 62N20	

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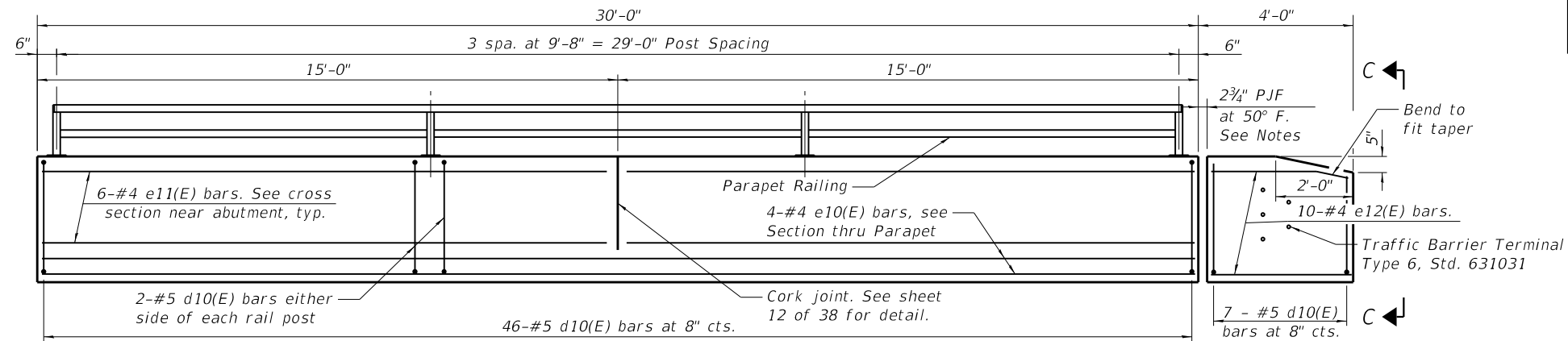


INSIDE ELEVATION OF EAST 39" PARAPET AND CURB

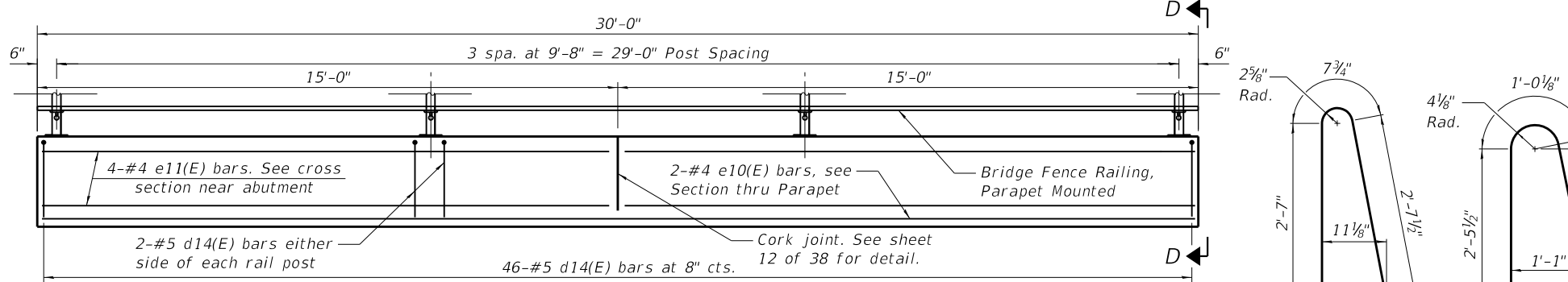


VIEW B-B

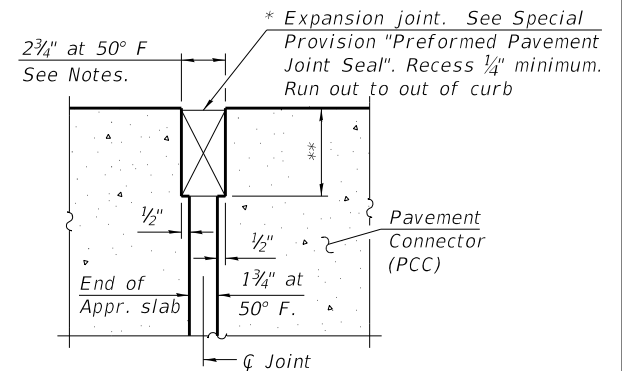
VIEW C-C



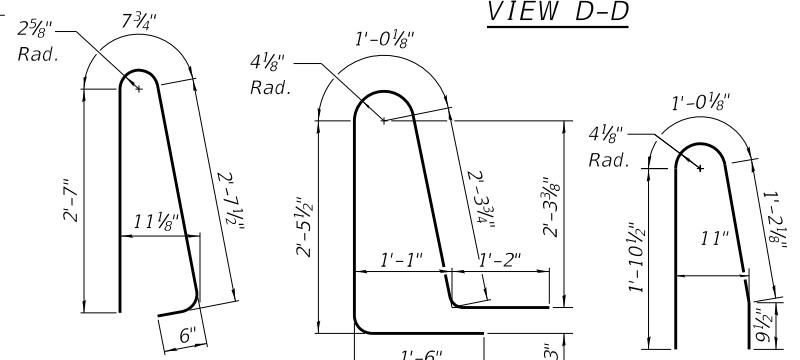
INSIDE ELEVATION OF WEST 39" PARAPET



INSIDE ELEVATION OF WEST 28" PARAPET



DETAIL A



BAR d10(E)

BAR d11(E)

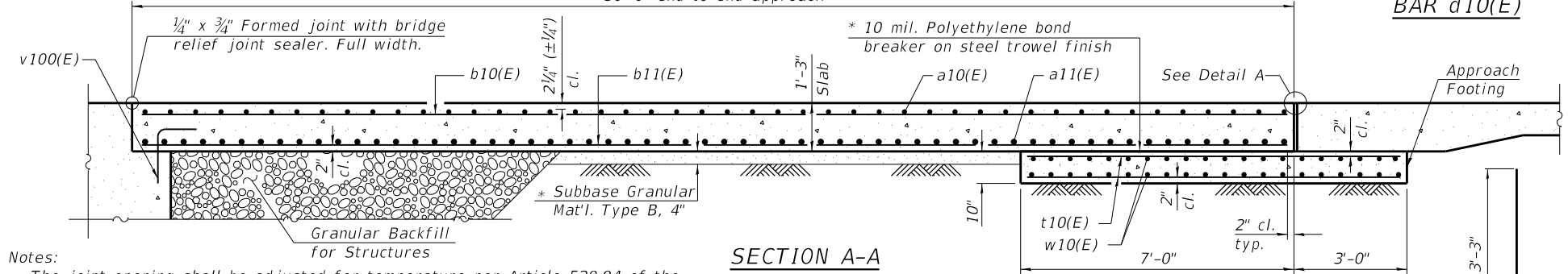
BAR d15(E)

**TWO APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10(E)	92	#5	44'-11"	U
a11(E)	122	#8	45'-4"	U
a12(E)	138	#5	7'-4"	U
b10(E)	136	#5	29'-8"	U
b11(E)	224	#9	29'-8"	U
b12(E)	8	#5	14'-8"	U
b13(E)	2	#4	14'-8"	U
d10(E)	168	#5	6'-5"	A
d11(E)	46	#5	8'-6"	A
d12(E)	92	#5	4'-1"	L
d13(E)	92	#5	4'-9"	L
d14(E)	108	#5	4'-7"	L
d15(E)	106	#5	4'-11"	A
e10(E)	12	#4	29'-8"	U
e11(E)	60	#4	14'-8"	U
e12(E)	20	#4	3'-8"	U
t10(E)	92	#4	9'-8"	U
w10(E)	80	#5	44'-5"	U
Concrete Superstructure		Cu. Yd.	17.4	
Concrete Superstructure (Approach Slab)		Cu. Yd.	125.8	
Concrete Structures		Cu. Yd.	22.1	
Reinforcement Bars, Epoxy Coated		Pound	55,700	
Bridge Deck Grooving		Sq. Yd.	200	
Protective Coat		Sq. Yd.	373	

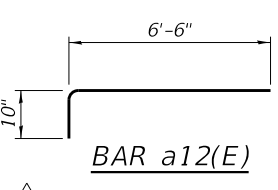
* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations



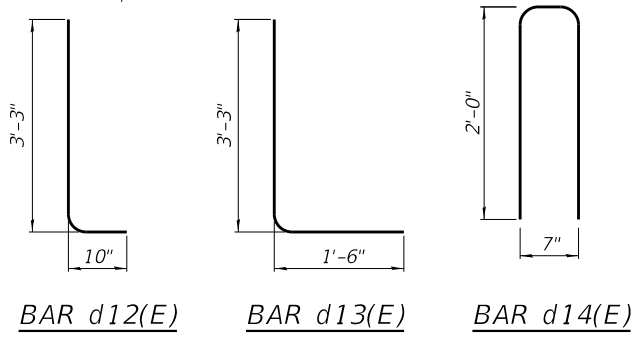
SECTION A-A

Notes:
 The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
 Parapet concrete shall be paid for as Concrete Superstructure.
 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 footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 26 of 38.



BAR a12(E)

BAR a10(E)



BAR d12(E)

BAR d13(E)

BAR d14(E)

Entire sheet revised

(Sheet 2 of 2)



USER NAME = kanderson	DESIGNED KJA	REVISED 4/8/2022 KJA
CHECKED MG/ZM	REVISIONS	
PLOT SCALE =	DRAWN KC	REVISIONS
PLOT DATE = 4/8/2022	CHECKED KJA	REVISIONS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

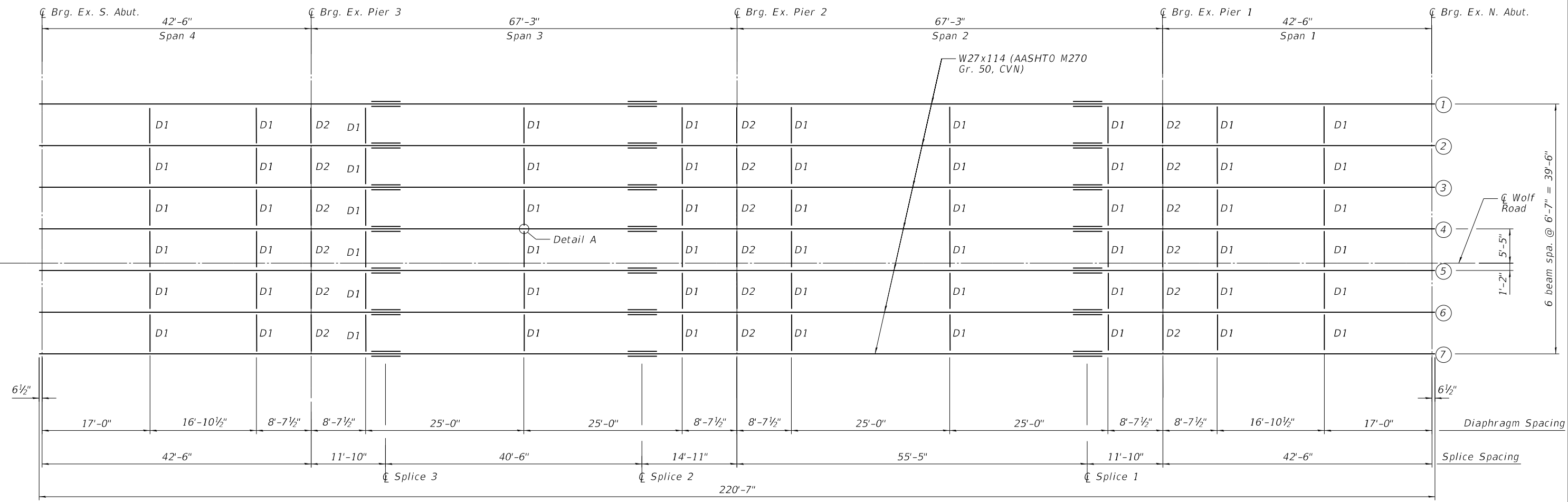
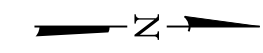
**BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 099-0192**

SHEET 18 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2020-250-BY	WILL	133	80
			CONTRACT NO. 62N20	

ILLINOIS

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 100 S. WACKER DRIVE SUITE 700, CHICAGO IL 60606 - P.312-405-8910 F.312-406-4145
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FRAMING PLAN

"CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.

Note:
 All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted.
 Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
 See sheet 20 of 38 for Detail A.

*TOP OF BEAM ELEVATIONS							
	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6	Beam 7
☐ Brg. S. Abut.	740.58	740.71	740.84	740.94	741.00	740.90	740.79
☐ Ex. Pier 3	740.80	740.93	741.06	741.16	741.23	741.13	741.02
☐ Splice 3	740.87	740.99	741.13	741.23	741.29	741.19	741.08
☐ Splice 2	740.98	741.10	741.23	741.33	741.40	741.30	741.19
☐ Ex. Pier 2	740.95	741.07	741.21	741.30	741.37	741.27	741.16
☐ Splice 1	740.84	740.97	741.10	741.20	741.26	741.16	741.05
☐ Ex. Pier 1	740.77	740.90	741.03	741.13	741.19	741.09	740.98
☐ Brg. N. Abut.	740.52	740.65	740.78	740.88	740.95	740.85	740.74

*For fabrication use only.

Entire sheet revised



USER NAME =	kanderson	DESIGNED	KJA	REVISED	4/8/2022	KJA
CHECKED	MG	REVISION	-	REVISION	-	
PLOT SCALE =		DRAWN	MG	REVISION	-	
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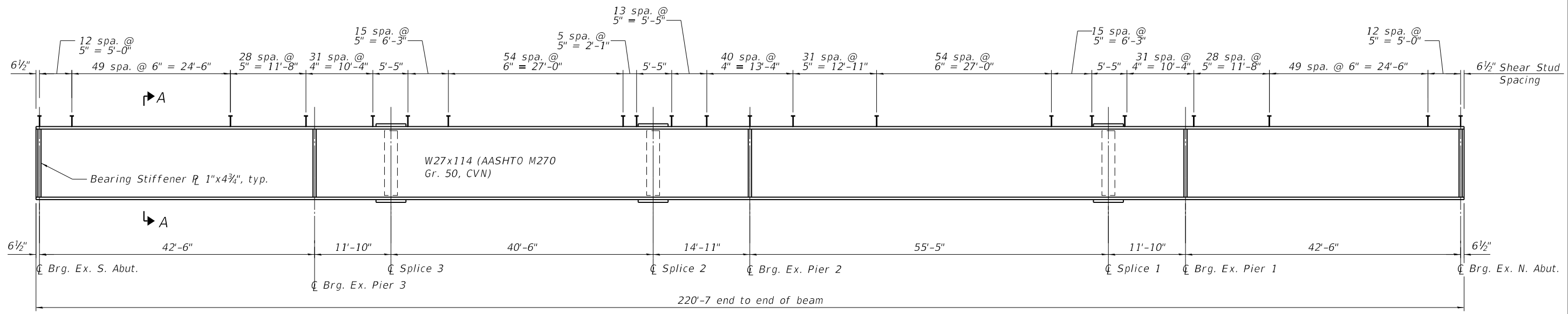
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN
 STRUCTURE NO. 099-0192**

SHEET 19 OF 38 SHEETS

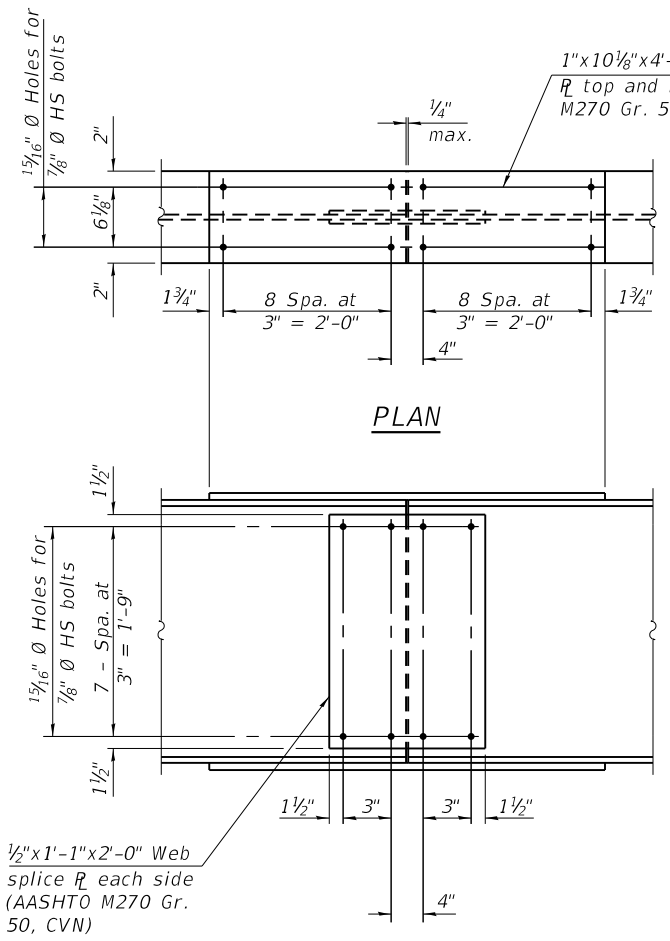
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2020-250-BY	WILL	133	81
			CONTRACT NO. 62N20	
ILLINOIS				

MODEL: Default
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 4/8/2022 2:55:01 PM



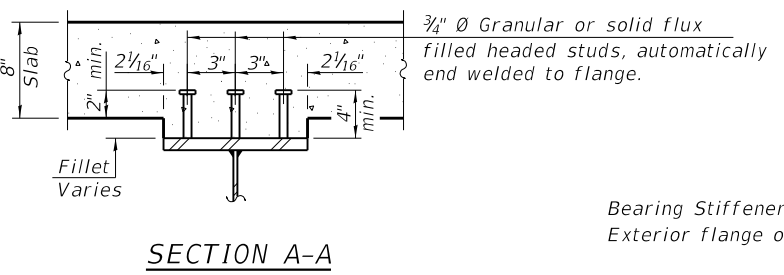
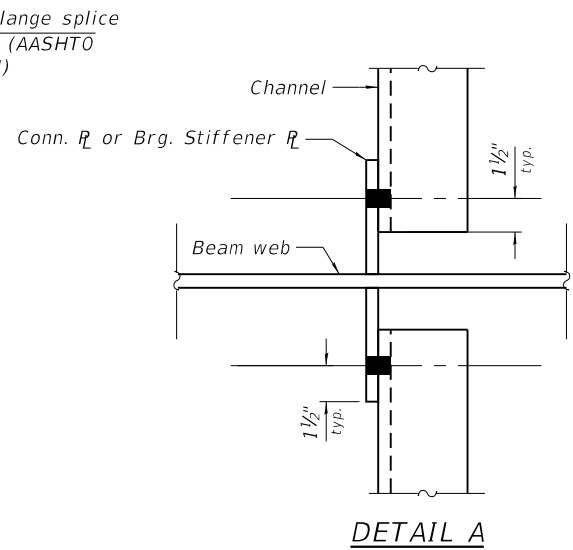
GIRDER ELEVATION

(Looking West)
 "CVN" denotes Charpy-V-Notch impact energy requirements, zone 2



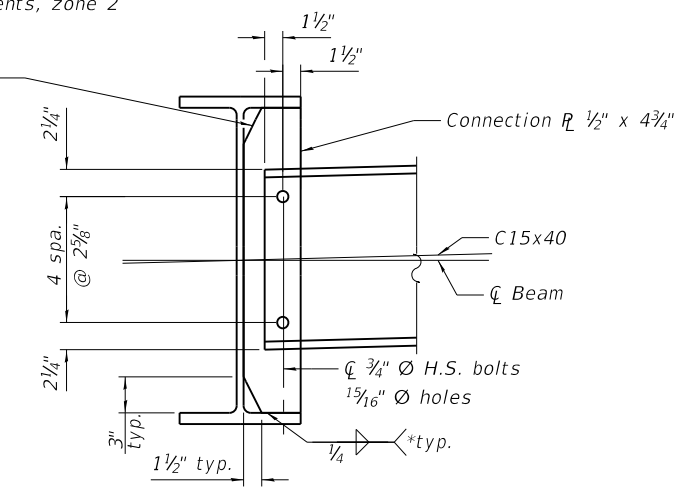
SPLICE DETAIL

(3 Required per beam - Total 21)
 "CVN" denotes Charpy-V-Notch impact energy requirements, zone 2



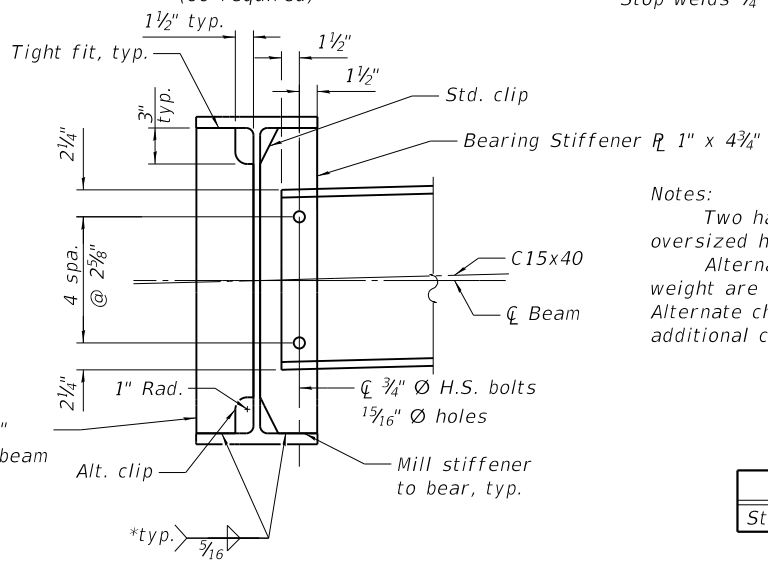
SECTION A-A

Standard Clip. Alternate clip shown in "Interior Diaphragm D2" detail allowed in lieu of standard clip detail



INTERIOR DIAPHRAGM D1
(60 required)

* Stop welds 1/4" (±1/8") from edges.



INTERIOR DIAPHRAGM D2
(18 required)

Notes:
 Two hardened washers required for each set of oversized holes.
 Alternate channels of equal depth and larger weight are permitted to facilitate material acquisition. Alternate channels, if utilized, shall be provided at no additional cost to the Department.

BILL OF MATERIAL

Item	Unit	Total
Stud Shear Connectors	Each	9,891

1 Entire sheet revised

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GIRDER ELEVATION AND DETAILS
 STRUCTURE NO. 099-0192**

SHEET 20 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2020-250-BY	WILL	133	82
				CONTRACT NO. 62N20

ILLINOIS



USER NAME = kanderson	DESIGNED KJA	REVISED 4/8/2022 KJA
PLOT SCALE =	CHECKED MG/ZM	REVISED -
PLOT DATE = 4/8/2022	DRAWN KC	REVISED -
	CHECKED KJA	REVISED -

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 4/8/2022 2:58:29 PM

INTERIOR GIRDER MOMENT TABLE					
	0.4 Sp. 1 or 0.6 Sp. 4	Pier 1 or Pier 3	0.5 Sp. 2 or 0.5 Sp. 3	Pier 2	
<i>I_s</i>	(in ⁴)	4080	4080	4080	4080
<i>I_c(n)</i>	(in ⁴)	11630	---	11630	---
<i>I_c(3n)</i>	(in ⁴)	8925	---	8925	---
<i>I_c(cr)</i>	(in ⁴)	---	6073	---	6073
<i>S_s</i>	(in ³)	299	299	299	299
<i>S_c(n)</i>	(in ³)	440.8	---	440.8	---
<i>S_c(3n)</i>	(in ³)	409.0	---	409.0	---
<i>S_c(cr)</i>	(in ³)	---	361.0	---	361.0
<i>DC1</i>	(k/')	0.810	0.810	0.810	0.810
<i>MDC1</i>	(k)	75.9	249.4	166.7	333.3
<i>DC2</i>	(k/')	0.294	0.294	0.294	0.294
<i>MDC2</i>	(k)	27.5	90.5	60.5	121.0
<i>DW</i>	(k/')	0.229	0.229	0.229	0.229
<i>MDW</i>	(k)	21.4	70.5	47.1	94.2
<i>LLDF</i>		0.558	0.550	0.522	0.522
<i>M_ℓ + IM</i>	(k)	397.1	497.9	498.9	536.2
<i>f_l (Strength I)</i>	(ksi)	0.0	0.0	0.0	0.0
<i>M_u + 1/2 f_l S_{xc}</i>	(k)	856.4	1402.0	1227.6	1647.5
<i>Øf Mn</i>	(k)	2245.0	1891.0	2245.0	1884.0
<i>f_s DC1</i>	(ksi)	3.05	10.01	6.69	13.37
<i>f_s DC2</i>	(ksi)	0.81	3.00	1.78	4.02
<i>f_s DW</i>	(ksi)	0.63	2.34	1.38	3.13
<i>f_s (ℓ+IM)</i>	(ksi)	10.81	16.55	13.58	17.82
<i>f_l (Service II)</i>	(ksi)	0.0	0.0	0.0	0.0
<i>f_s + 1/2 f_l (Service II)</i>	(ksi)	18.54	36.87	27.50	43.68
<i>0.95R_h F_{yf}</i>	(ksi)	47.5	47.5	47.5	47.5
<i>f_s + 1/2 f_l (Total)(Strength I)</i>	(ksi)	---	---	---	---
<i>Øf Fn</i>	(ksi)	---	---	---	---
<i>Vf</i>	(k)	---	61.2	---	56.9

GIRDER REACTION TABLE						
	Abutment		Pier 1 or Pier 3		Pier 2	
	Interior	Exterior	Interior	Exterior	Interior	Exterior
<i>LLDF</i>	0.713	0.547	0.713	0.547	0.713	0.547
<i>OCF</i>	---	---	---	---	---	---
<i>R_{DC1}</i>	(k) 42.7*	41.5*	49.1	52.1	57.0	60.6
<i>R_{DC2}</i>	(k) 4.1	2.5	17.8	10.6	20.6	12.3
<i>R_{DW}</i>	(k) 6.6	6.6	13.9	13.9	16.2	16.2
<i>R_ℓ</i>	(k) 54.5	41.8	94.0	72.1	98.3	75.4
<i>R_{Im}</i>	(k) 12.6	9.7	21.0	16.1	21.1	16.2
<i>R_{Total}</i>	(k) 120.5	102.0	195.8	164.8	213.2	180.7

* *R_{DC1}* includes service reaction due to weight of approach slab and parapet on approach slab.

1 Entire sheet revised

- I_s, S_s*: Non-composite moment of inertia and section modulus of the steel section used for computing *f_s*(Total-Strength I, and Service II) due to non-composite dead loads (in.⁴ and in.³).
- I_c(n), S_c(n)*: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing *f_s*(Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.⁴ and in.³).
- I_c(3n), S_c(3n)*: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing *f_s*(Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.⁴ and in.³).
- I_c(cr), S_c(cr)*: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing *f_s* (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.⁴ and in.³).
- DC1*: Un-factored non-composite dead load (kips/ft.).
- MDC1*: Un-factored moment due to non-composite dead load (kip-ft.).
- DC2*: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- MDC2*: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- LLDF*: Live Load Distribution Factor
- DW*: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- MDW*: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- M_ℓ + IM*: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
- f_l (Strength I)*: Unfactored lateral flange stresses for Strength I Load Combination (ksi)
- M_u (+1/2 f_l S_{xc})*: Factored design moment (kip-ft.).
- Øf Mn*: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).
- f_s DC1*: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
- MDC1/ S_{nc}*
- f_s DC2*: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
- MDC2/ S_c(3n) or MDC2/ S_c(cr) as applicable.*
- f_s DW*: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
- MDW/ S_c(3n) or MDW/ S_c(cr) as applicable.*
- f_l (Service II)*: Unfactored lateral flange stresses for Service II Load Combinations (ksi)
- f_s (ℓ+IM)*: Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
- M_ℓ + IM / S_c(n) or M_ℓ + IM / S_c(cr) as applicable.*
- f_s + f_l/2 (Service II)*: Sum of stresses as computed below (ksi).
- f_sDC1 + f_sDC2 + f_sDW + 1.3 f_s(ℓ + IM) + 1/2 f_l*
- 0.95R_hF_{yf}*: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
- f_s + 1/2 f_l (Total)(Strength I)*: Sum of stresses as computed below on non-compact section (ksi).
- 1.25 (f_sDC1 + f_sDC2) + 1.5 f_sDW + 1.75 f_s(ℓ + IM)*
- Øf Fn*: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).
- Vf*: Maximum factored shear range in span computed according to Article 6.10.10.
- OCF*: Obtuse Correction Factor



USER NAME = kanderson	DESIGNED KJA	REVISED 4/8/2022 KJA
CHECKED MG/ZM	REVISED -	
PLOT SCALE =	DRAWN KC	REVISED -
PLOT DATE = 4/8/2022	CHECKED KJA	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

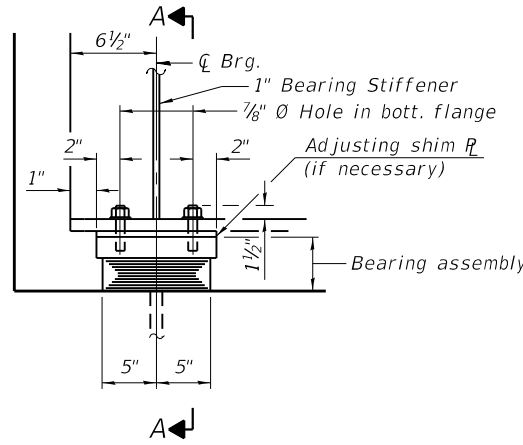
**GIRDER MOMENT AND REACTION TABLES
STRUCTURE NO. 099-0192**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2020-250-BY	WILL	133	83
CONTRACT NO. 62N20				

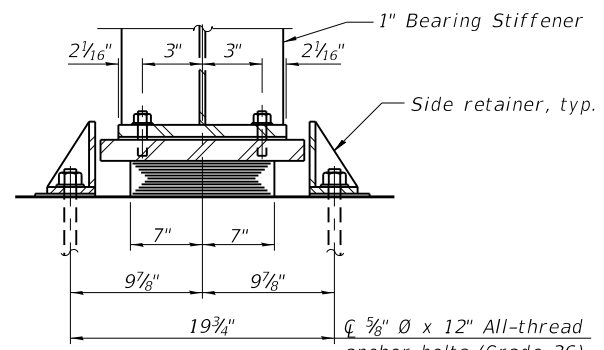
SHEET 21 OF 38 SHEETS

ILLINOIS

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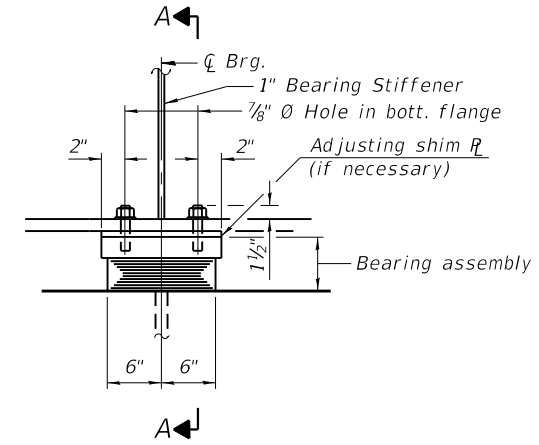


ELEVATION AT ABUTMENT

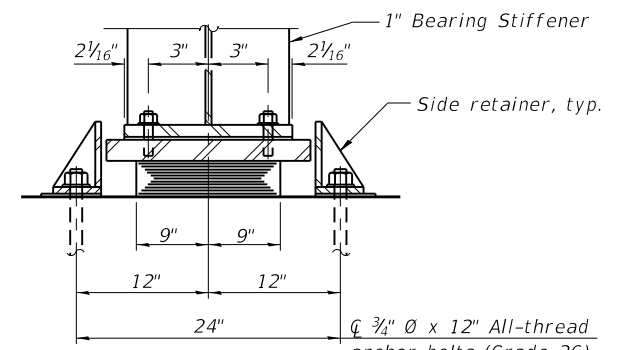


SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.
(14 Required)

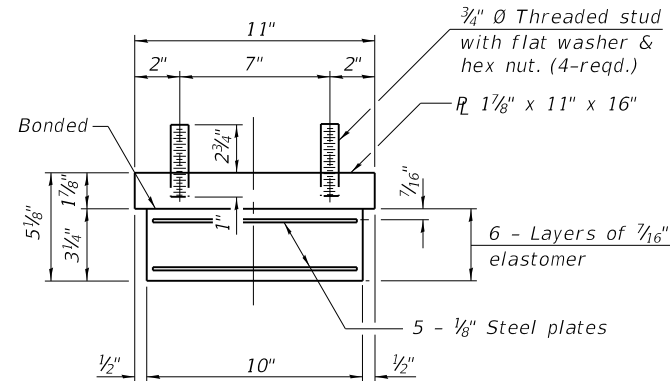


ELEVATION AT PIER 1 & 3

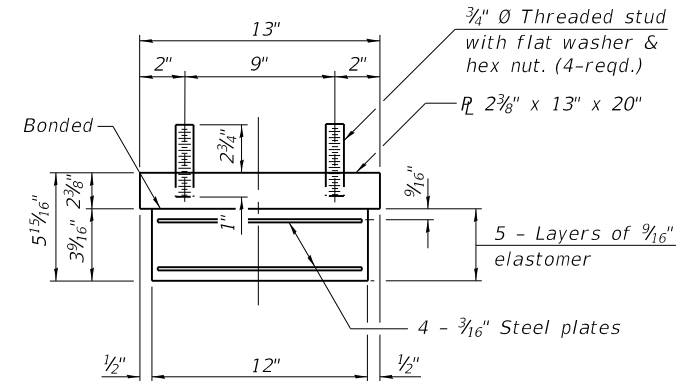


SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.
(14 Required)



BEARING ASSEMBLY

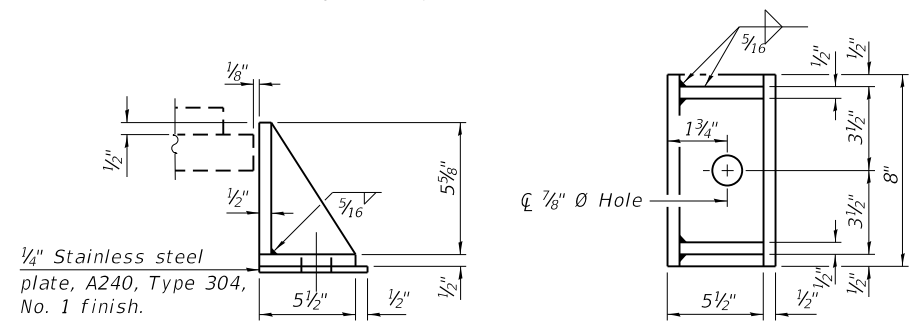


BEARING ASSEMBLY

Notes:
 Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.
 Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
 Two 1/8" in adjusting shims shall be provided for each bearing in addition to all other plates or shims placed as shown on bearing details.

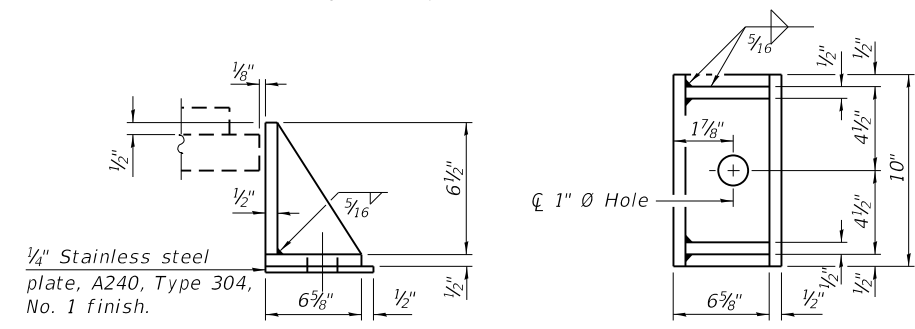
Note:
 Shim plates shall not be placed under bearing assembly.

Note:
 Shim plates shall not be placed under bearing assembly.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	28
Anchor Bolts, 3/8"	Each	28
Anchor Bolts, 3/4"	Each	28

1 Entire sheet revised



USER NAME = kanderson	DESIGNED KJA	REVISED 4/8/2022 KJA
CHECKED MG/ZM	REVISIONS -	
PLOT SCALE =	DRAWN KC	REVISIONS -
PLOT DATE = 4/8/2022	CHECKED KJA	REVISIONS -

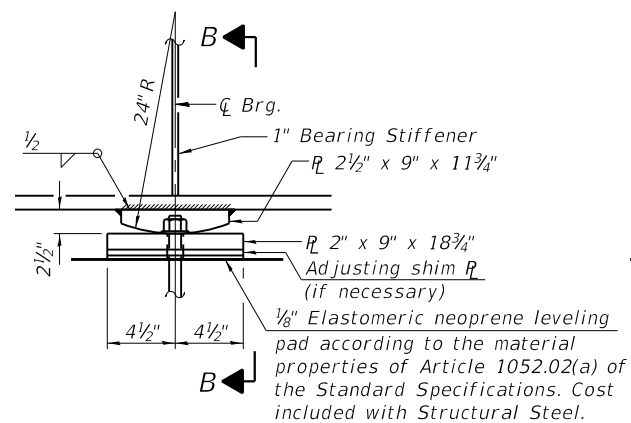
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS I
STRUCTURE NO. 099-0192

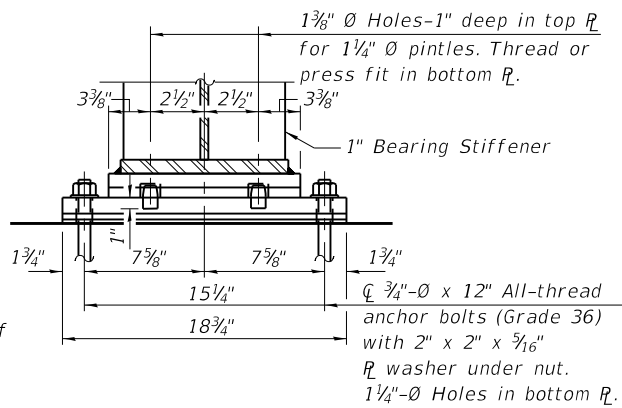
SHEET 22 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2020-250-BY	WILL	133	84
			CONTRACT NO. 62N20	
ILLINOIS				

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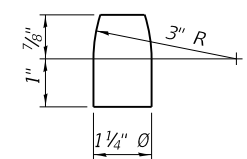


ELEVATION AT PIER 2



SECTION B-B

FIXED BEARING
(7 Required)



PINTLE

Notes:
 Two 1/8 in adjusting shims shall be provided for each bearing in addition to all other plates or shims placed as shown on bearing details.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 3/4"	Each	14

Entire sheet revised



USER NAME = kanderson	DESIGNED KJA	REVISED 4/8/2022 KJA
PLOT SCALE =	CHECKED MG/ZM	REVISED -
PLOT DATE = 4/8/2022	DRAWN KC	REVISED -
	CHECKED KJA	REVISED -

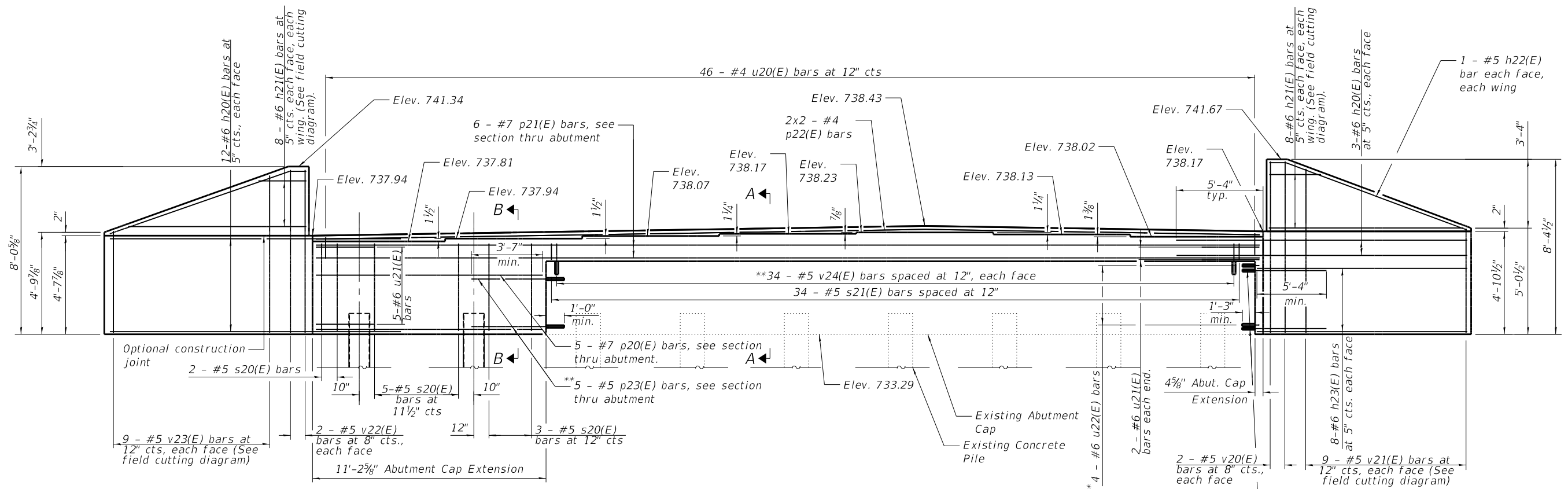
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS II
STRUCTURE NO. 099-0192

SHEET 23 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2020-250-BY	WILL	133	85
			CONTRACT NO. 62N20	
ILLINOIS				

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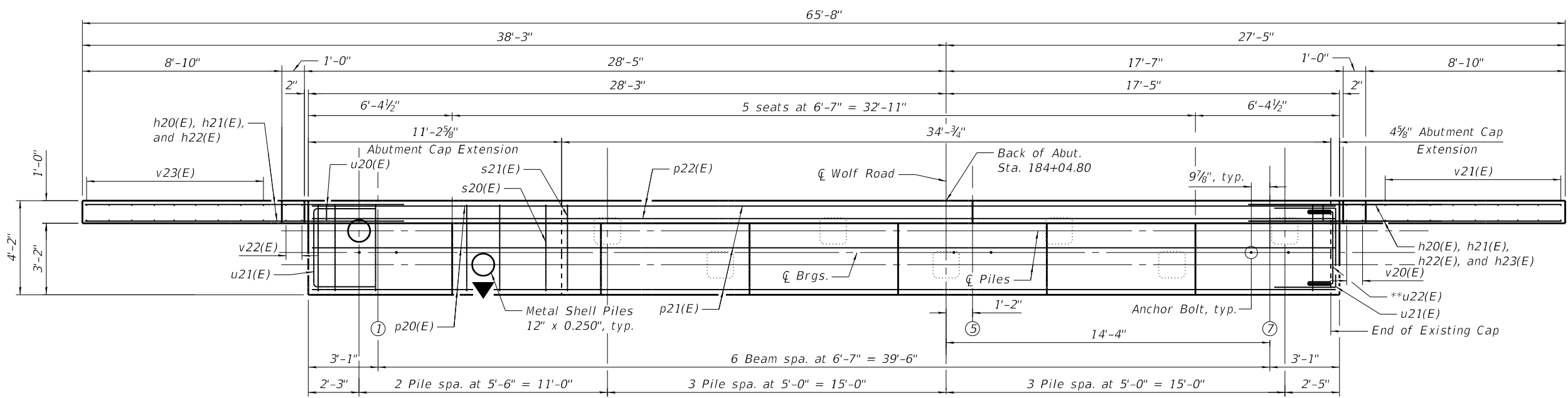


** Epoxy grout bars in accordance with Article 584 of the Standard Specifications. Cost is included with Reinforcement bars, epoxy coated.

ELEVATION
(Looking North)

MINIMUM BAR LAP
 #4 bar = 2'-11"
 #5 bar = 3'-7"
 #6 bar = 5'-4"

** 8 - #6 h24(E) bars each face of wingwall, lap with each h23(E) bar



LEGEND
 ○ Vertical Pile
 ● Battered Pile

PILE DATA

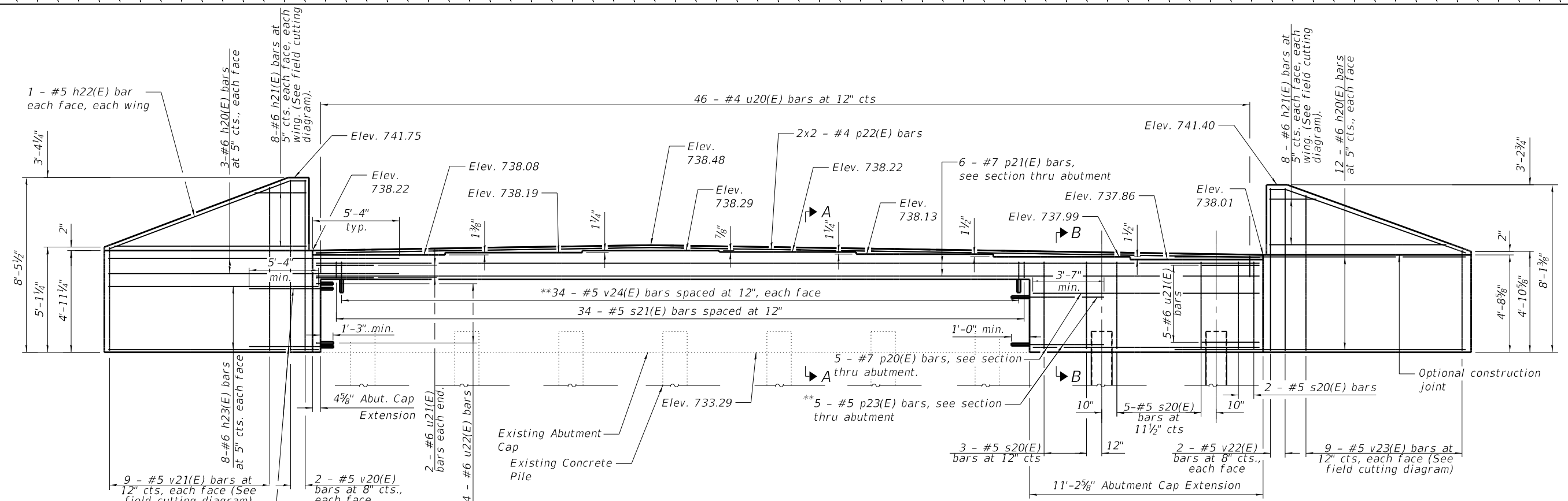
Type: Metal Shell Piles 12" x 0.250" with conical tips (pile shoes)
 Nominal Required Bearing: 354 kips
 Factored Resistance Available: 195 kips
 Est. Length: 45 ft
 No. Production Piles: 1
 No. Test Piles: 1

△ Entire sheet revised

Notes:
 Space reinforcement in cap to miss anchor bolts. Pour steps monolithically with cap.
 For Bill of Material, see sheet 26 of 38.
 For details of piles see sheet 31 of 38.

	USER NAME = kanderson	DESIGNED KJA	REVISED 4/8/2022 KJA	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH ABUTMENT PLAN AND ELEVATION STRUCTURE NO. 099-0192	F.A.I. RTE. 80	SECTION 2020-250-BY	COUNTY WILL	TOTAL SHEETS 133	SHEET NO. 86
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	PLOT DATE = 4/8/2022	CHECKED KJA	REVISED -			ILLINOIS				

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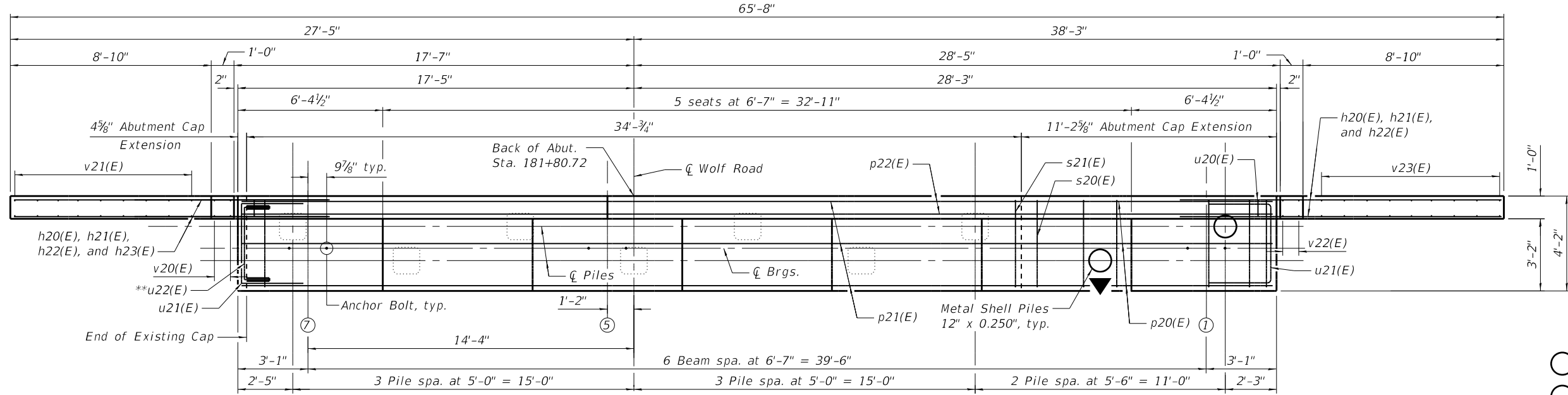


ELEVATION
(Looking South)

MINIMUM BAR LAP
 #4 bar = 2'-11"
 #5 bar = 3'-7"
 #6 bar = 5'-4"

** 8 - #6 h24(E) bars each face of wingwall, lap with each h23(E) bar

** Epoxy grout bars in accordance with Article 584 of the Standard Specifications. Cost is included with Reinforcement bars, epoxy coated.



PLAN

LEGEND
 ○ Vertical Pile
 ● Battered Pile

PILE DATA

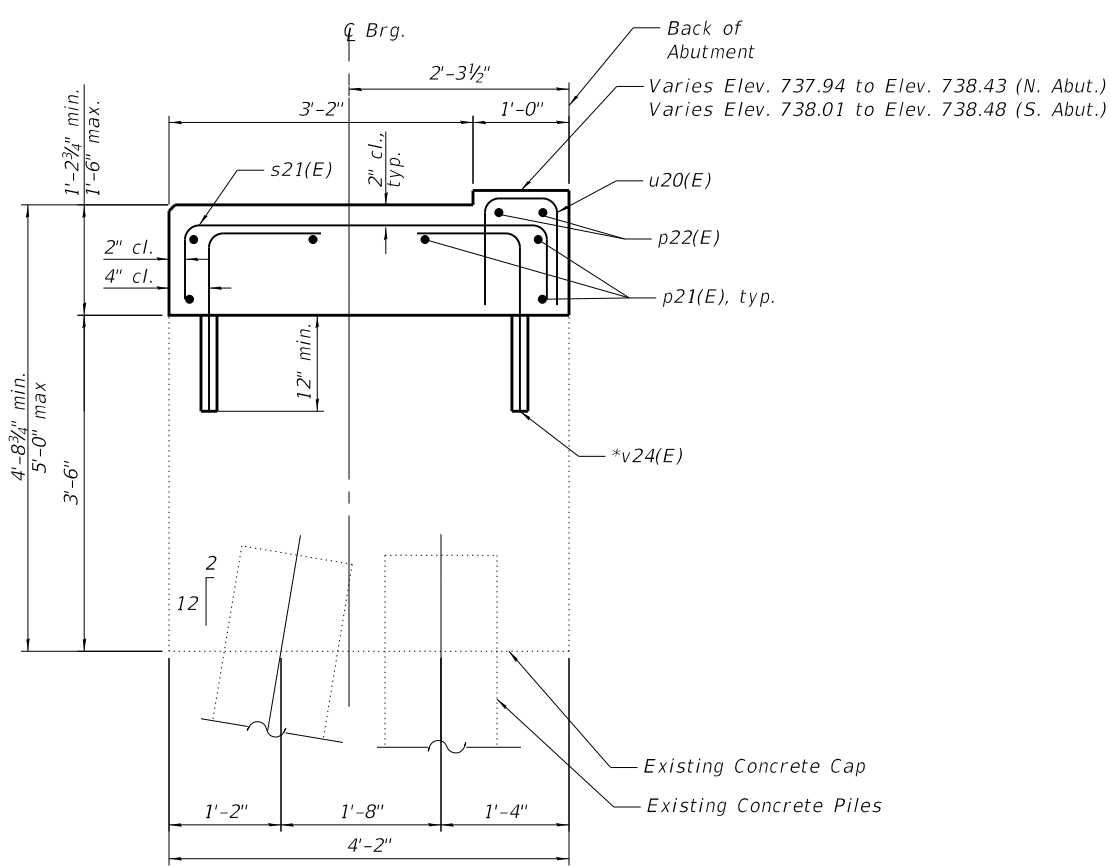
Type: Metal Shell Piles 12" x 0.250" with conical tips (pile shoes)
 Nominal Required Bearing: 359 kips
 Factored Resistance Available: 197 kips
 Est. Length: 45 ft
 No. Production Piles: 2
 No. Test Piles: 0

1 Entire sheet revised

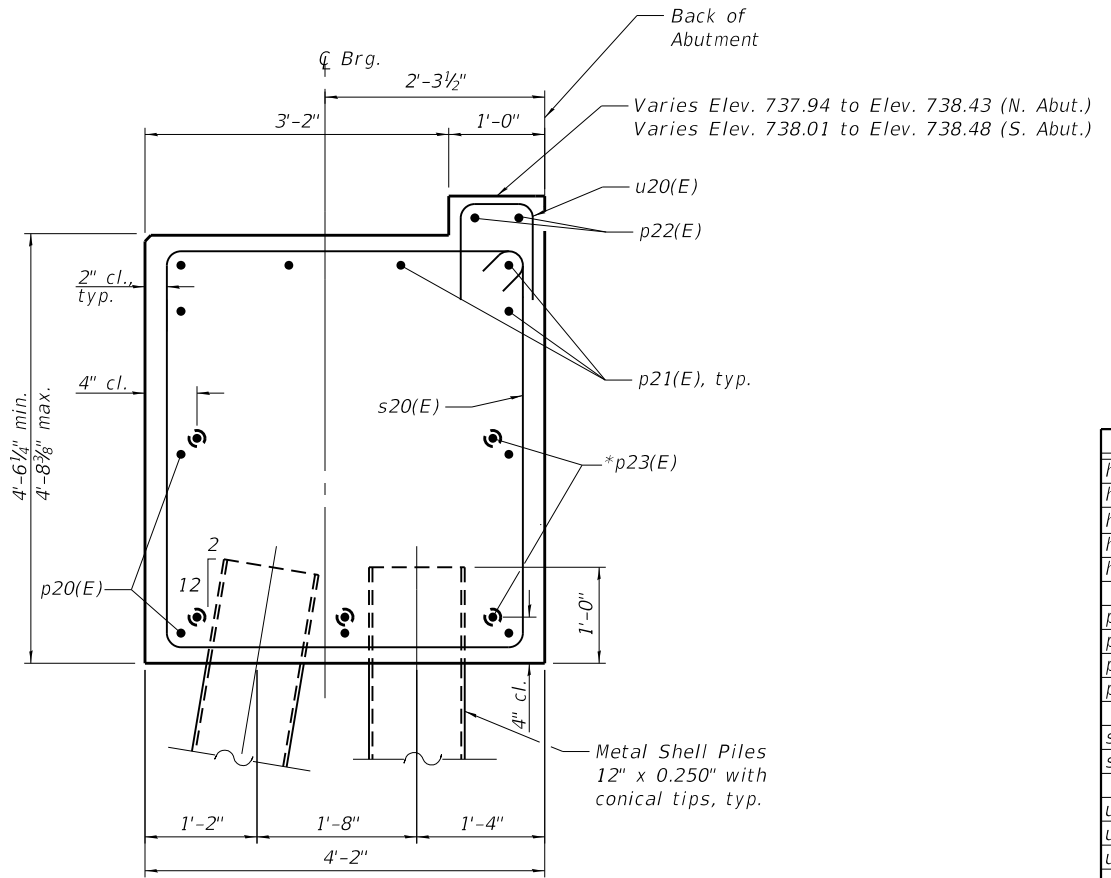
Notes:
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For Bill of Material, see sheet 26 of 38.
 For details of piles see sheet 31 of 38.

	USER NAME = kanderson	DESIGNED KJA	REVISED 4/8/2022 KJA	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOUTH ABUTMENT PLAN AND ELEVATION STRUCTURE NO. 099-0192	F.A.I. RTE. 80	SECTION 2020-250-BY	COUNTY WILL	TOTAL SHEETS 133	SHEET NO. 87
	PLOT SCALE =	DRAWN KC	REVISED -			CONTRACT NO. 62N20				
	PLOT DATE = 4/8/2022	CHECKED KJA	REVISED -			ILLINOIS				
SHEET 25 OF 38 SHEETS										

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SECTION A-A

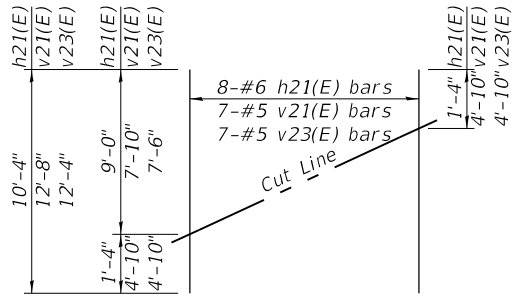


SECTION B-B

* Epoxy grout bars in accordance with Article 584 of the Standard Specifications. Cost is included with Reinforcement bars, epoxy coated.

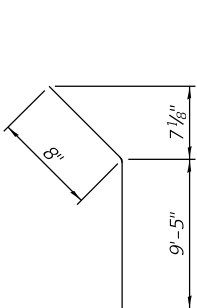
TWO ABUTMENTS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h20(E)	60	#6	15'-2"	—
h21(E)	32	#6	10'-4"	—
h22(E)	8	#5	10'-1"	—
h23(E)	32	#6	9'-8"	—
h24(E)	32	#6	7'-2"	—
p20(E)	10	#7	10'-11"	—
p21(E)	12	#7	45'-4"	—
p22(E)	8	#4	25'-7"	—
p23(E)	10	#5	4'-7"	—
s20(E)	20	#5	16'-7"	□
s21(E)	68	#5	6'-2"	□
u20(E)	92	#4	3'-0"	—
u21(E)	14	#6	8'-6"	—
u22(E)	8	#6	6'-0"	—
v20(E)	8	#5	8'-2"	—
v21(E)	18	#5	12'-8"	—
v22(E)	8	#5	7'-10"	—
v23(E)	18	#5	12'-1"	—
v24(E)	136	#5	3'-5"	—
Structure Excavation	Cu. Yd.		63	
Concrete Structures	Cu. Yd.		41.3	
Reinforcement Bars, Epoxy Coated	Pound		6,580	
Furn. Metal Shell Piles 12" x 0.250"	Foot		135	
Test Pile, Metal Shells	Each		1	
Driving Piles	Foot		135	
Pile Shoes	Each		4	
Slope Wall, 4 inch Granular Backfill for Structures	Sq. Yd.		478	
Geocomposite Wall Drain	Sq. Yd.		99	
Pipe Underdrain for Structures, 4 in	Foot		136	

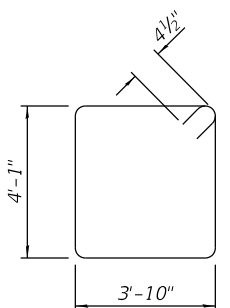


FIELD CUTTING DIAGRAM

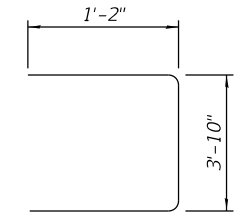
Order h21(E), v21(E) and v23(E) full length. Cut as shown and use remainder of bars in opposite wing.



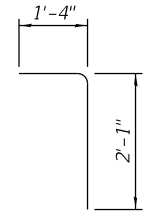
BAR h22(E)



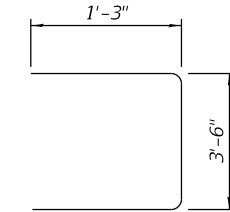
BAR s20(E)



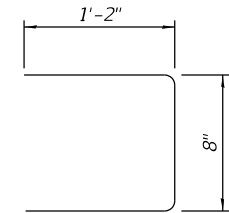
BAR s21(E)



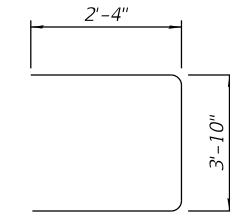
BAR v24(E)



BAR u22(E)



BAR u20(E)



BAR u21(E)

Notes:
Pour steps monolithically with cap.
For details of piles see sheet 31 of 38.

1 Entire sheet revised



USER NAME = kanderson	DESIGNED KJA	REVISED 1 4/8/2022 KJA
CHECKED MG/ZM	REVISIONS -	
PLOT SCALE =	DRAWN KC	REVISIONS -
PLOT DATE = 4/8/2022	CHECKED KJA	REVISIONS -

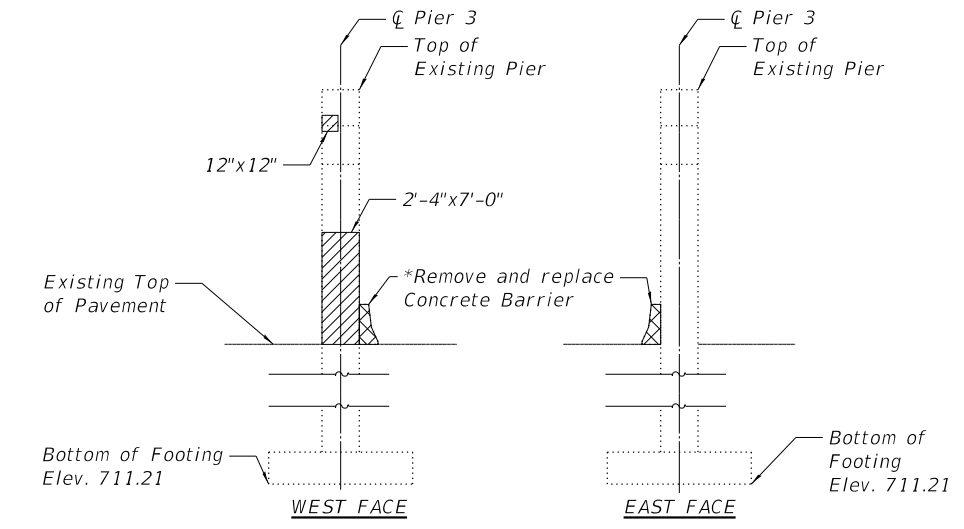
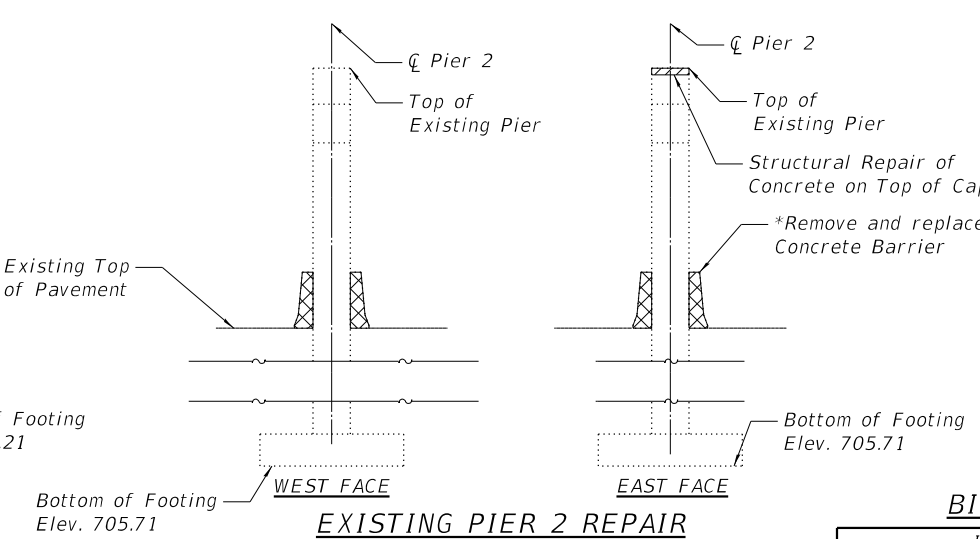
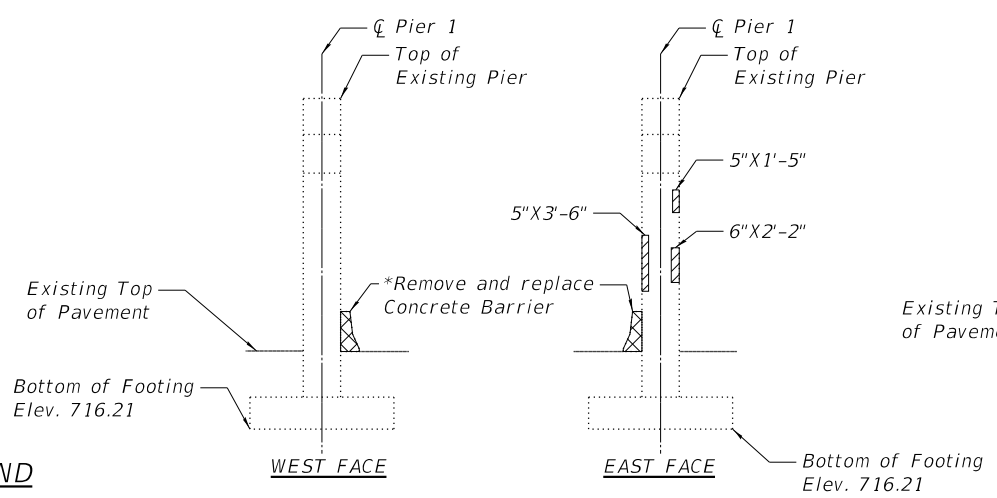
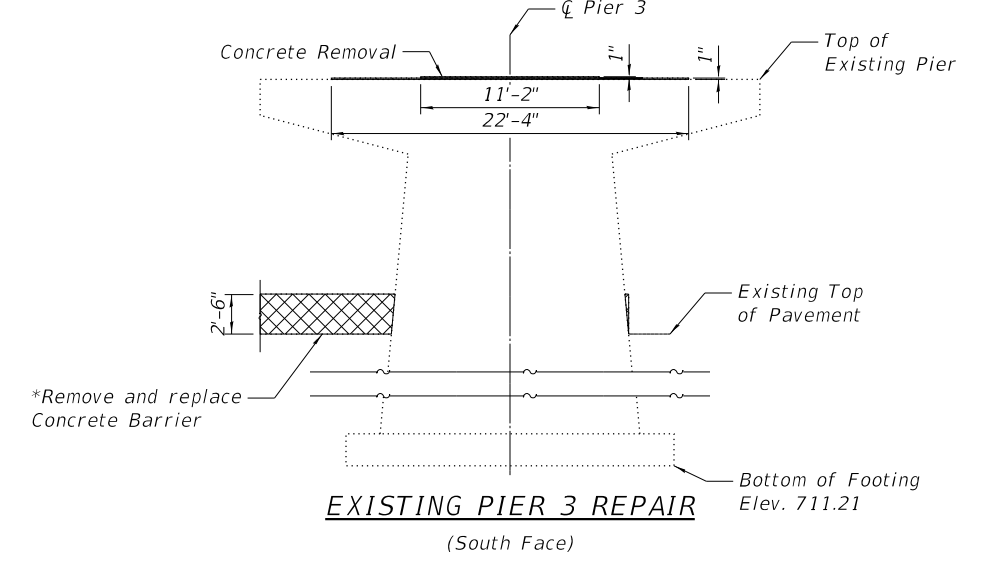
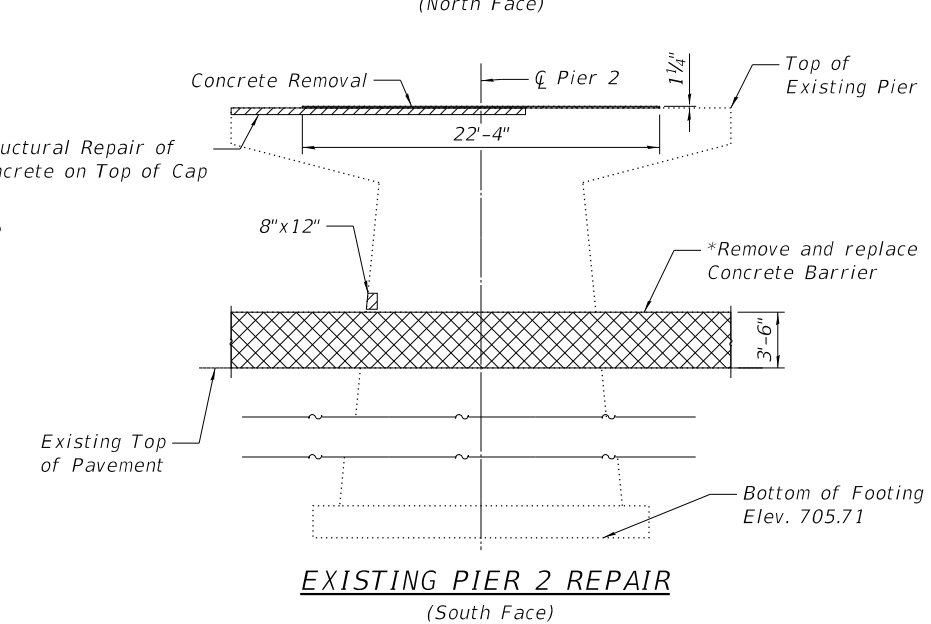
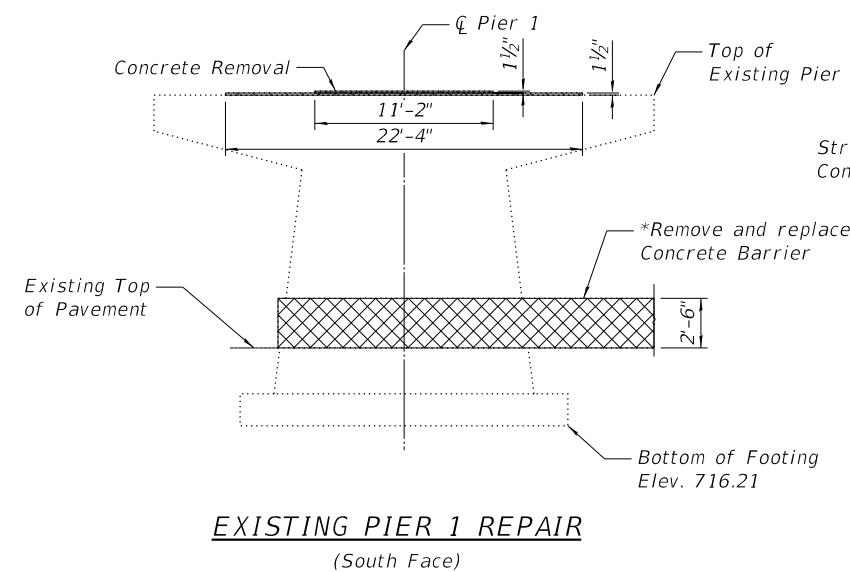
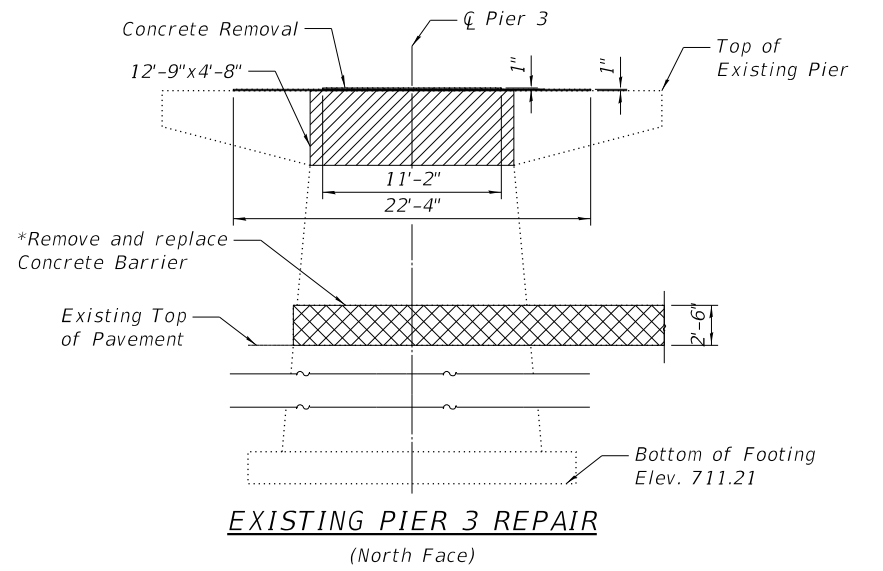
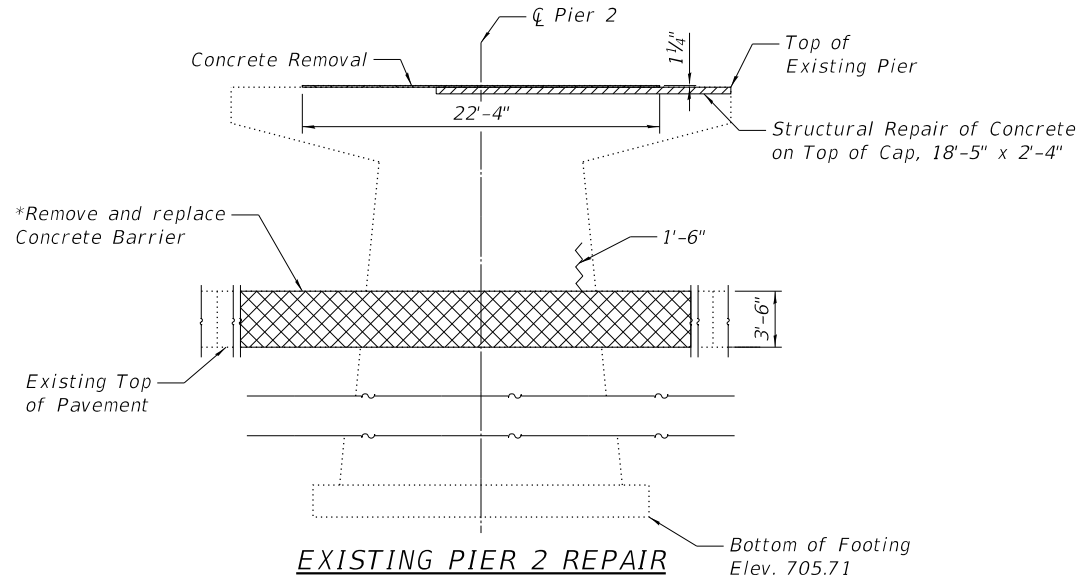
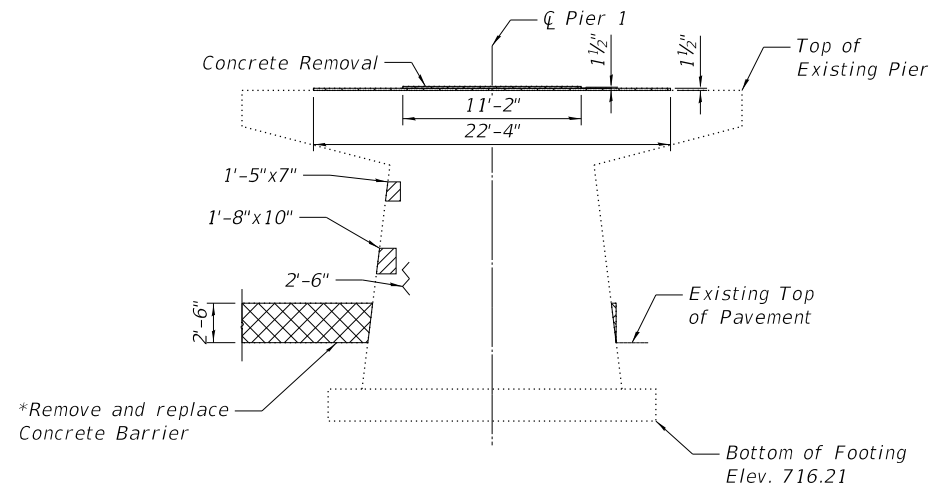
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS
STRUCTURE NO. 099-0192

SHEET 26 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2020-250-BY	WILL	133	88
			CONTRACT NO. 62N20	
ILLINOIS				

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 4/8/2022 3:22:23 PM



LEGEND

- Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)
- Epoxy Crack Injection
- Concrete Removal
- Concrete Barrier to be Removed See Roadway Plans

* See Roadway Plans

Entire sheet revised

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal to or less than 5 inches)	Sq. Ft.	125
Epoxy Crack Injection	Foot	4
Concrete Removal	Cu. Yd.	0.7



USER NAME = kanderson	DESIGNED KJA	REVISED 4/8/2022 KJA
PLOT SCALE =	CHECKED MG/ZM	REVISED -
PLOT DATE = 4/8/2022	DRAWN KC	REVISED -
	CHECKED KJA	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER REPAIR DETAILS
STRUCTURE NO. 099-0192**

SHEET 27 OF 38 SHEETS

F.A.I. RTE. 80	SECTION 2020-250-BY	COUNTY WILL	TOTAL SHEETS 133	SHEET NO. 89
			CONTRACT NO. 62N20	

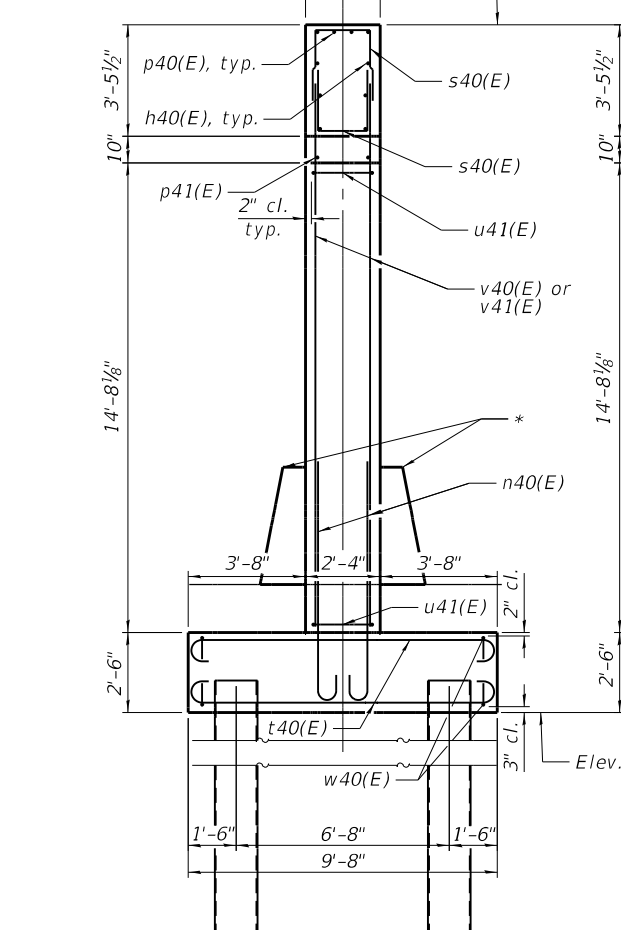
ILLINOIS

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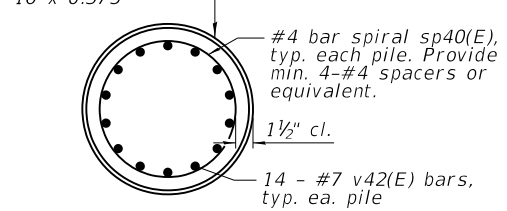
Notes:
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 The Contractor shall be responsible for using driving methods that do not damage the existing structure during pile installation, nor cause settlement or differential movement of the existing spread footing.
 All exposed surface areas shall be treated with Concrete Sealer. Concrete Sealer shall only be applied to new concrete.
 For details of piles see sheet 31 of 38.

MINIMUM BAR LAP

- #4 bar = 2'-11"
- #5 bar = 3'-7"
- #9 bar = 5'-8"



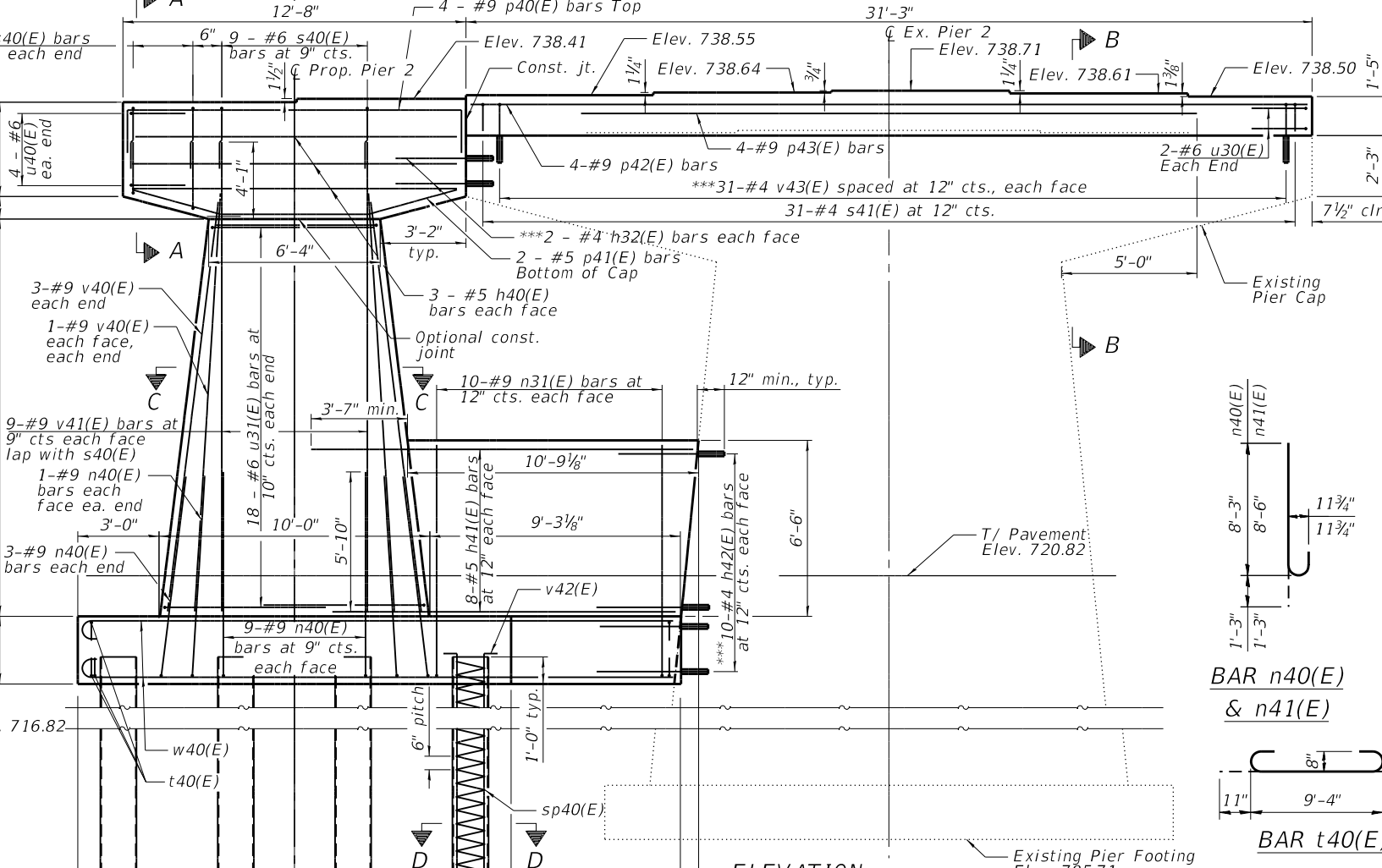
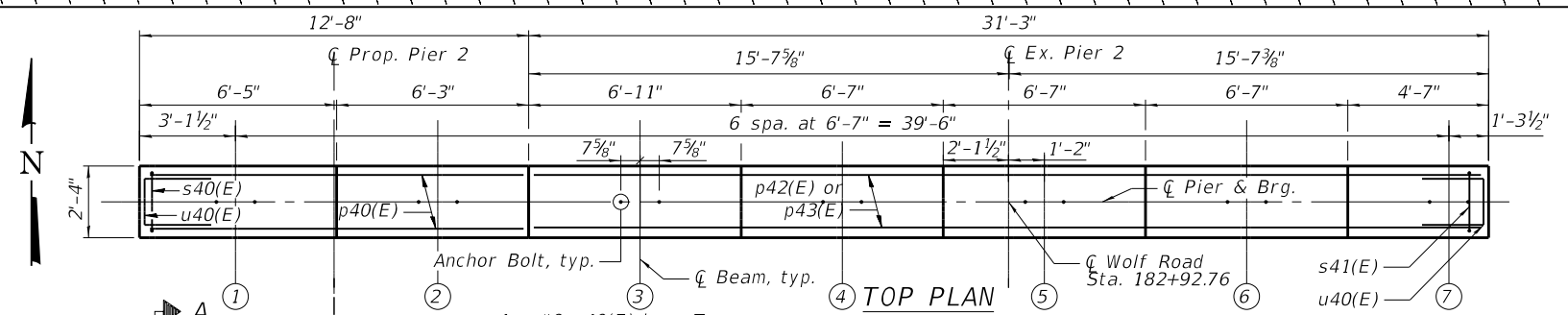
END VIEW
(Looking East)



SECTION D-D

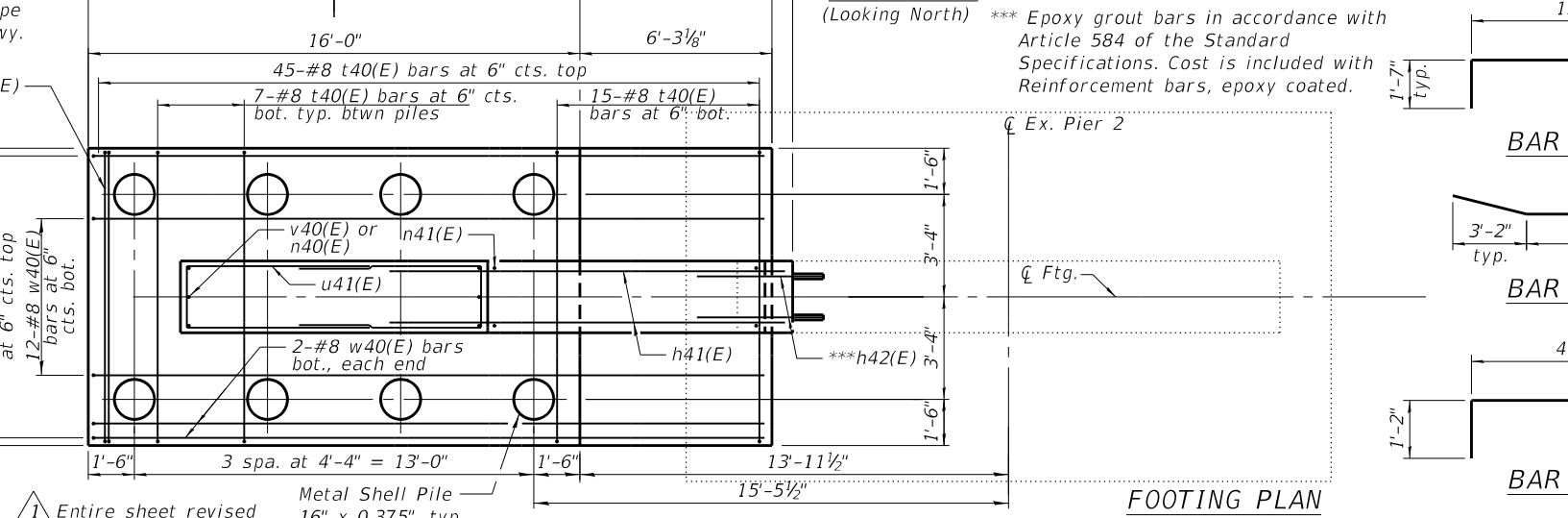
PILE DATA

Type: Metal Shell Piles 16" x 0.375" with conical tips (pile shoes)
 Nominal Required Bearing: 527 kip
 Factored Resistance Available: 290 kip
 Est. Length: 54 ft
 No. Production Piles: 8
 No. Test Piles: 0

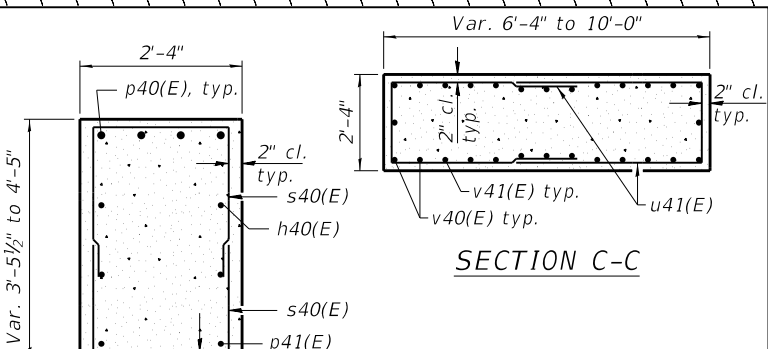


ELEVATION
(Looking North)

*** Epoxy grout bars in accordance with Article 584 of the Standard Specifications. Cost is included with Reinforcement bars, epoxy coated.



FOOTING PLAN



SECTION A-A

SECTION B-B

BAR n40(E) & n41(E)

BAR v43(E)

BAR t40(E)

BAR w40(E)

BAR p40(E)

BAR p41(E)

BAR v43(E)

BARS s40(E), s41(E) u40(E) & u41(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h40(E)	6	#5	12'-4"	—
h41(E)	16	#5	14'-2"	—
h42(E)	24	#4	4'-1"	—
n40(E)	28	#9	9'-6"	C
n41(E)	20	#9	9'-9"	C
p40(E)	4	#9	15'-6"	L
p41(E)	2	#5	12'-6"	—
p42(E)	4	#9	30'-11"	—
p43(E)	4	#9	22'-9"	—
s40(E)	29	#6	8'-4"	□
s41(E)	31	#4	4'-2"	□
sp40(E)	8	#4	41'-6"	W
t40(E)	83	#8	11'-2"	C
u40(E)	12	#6	10'-8"	—
u41(E)	36	#6	14'-0"	—
v40(E)	10	#9	15'-6"	—
v41(E)	18	#9	18'-7"	—
v42(E)	112	#7	42'-8"	—
v43(E)	62	#4	2'-11"	—
w40(E)	36	#8	22'-10"	C
Structure Excavation		Cu. Yd.	53	
Concrete Structures		Cu. Yd.	44.6	
Reinforcement Bars, Epoxy Coated		Pound	22,060	
Furn. Metal Shell Piles 16" x 0.375"		Foot	432	
Driving Piles		Foot	432	
Pile Shoes		Each	8	
Concrete Sealer		Sq. Ft.	542	

** Length is height of spiral
 Minimum lap for spirals = 2'-7"

A & B DIMENSIONS

Bar	A	B
s40(E)	2'-0"	3'-2"
s41(E)	2'-0"	1'-1"
u40(E)	2'-0"	4'-4"
u41(E)	2'-0"	6'-0"



USER NAME = kanderson	DESIGNED KJA	REVISED 4/8/2022 KJA
CHECKED MGZM	REVISIONS	
PLOT SCALE =	DRAWN KC	REVISIONS
PLOT DATE = 4/8/2022	CHECKED KJA	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

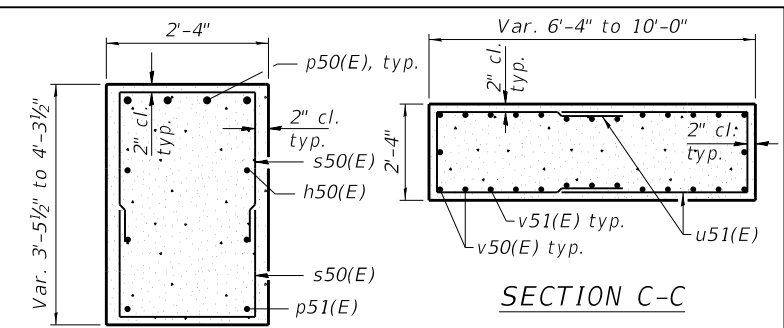
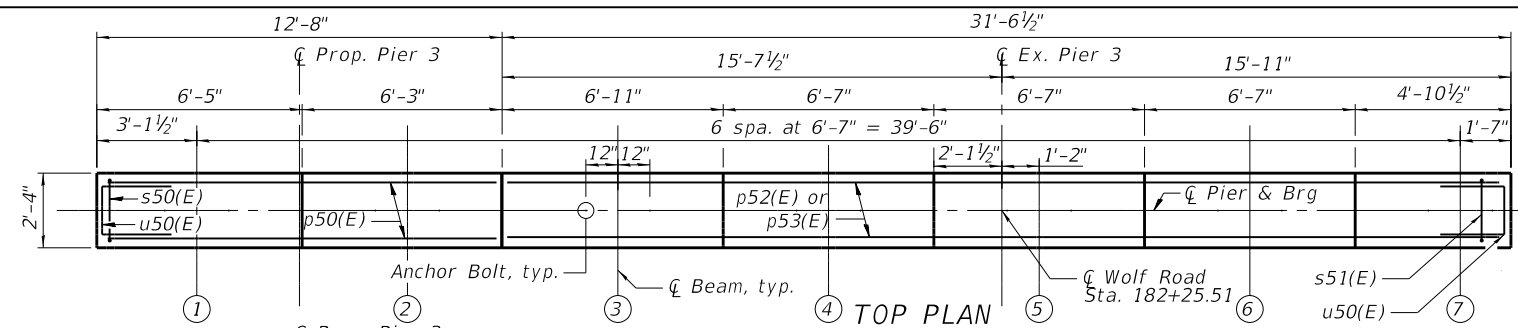
PIER 2 WIDENING
STRUCTURE NO. 099-0192
 SHEET 29 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2020-250-BY	WILL	133	91
			CONTRACT NO. 62N20	

Notes:
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 The Contractor shall be responsible for using driving methods that do not damage the existing structure during pile installation, nor cause settlement or differential movement of the existing spread footing.
 All exposed surface areas shall be treated with Concrete Sealer. Concrete Sealer shall only be applied to new concrete.
 For details of piles see sheet 31 of 38.

MINIMUM BAR LAP

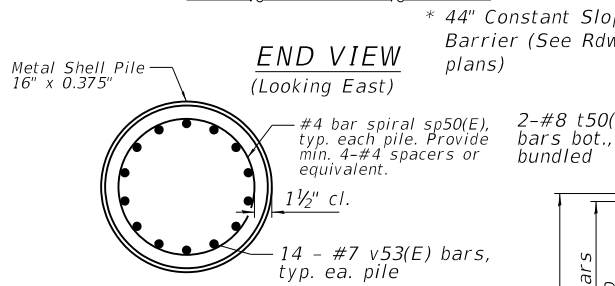
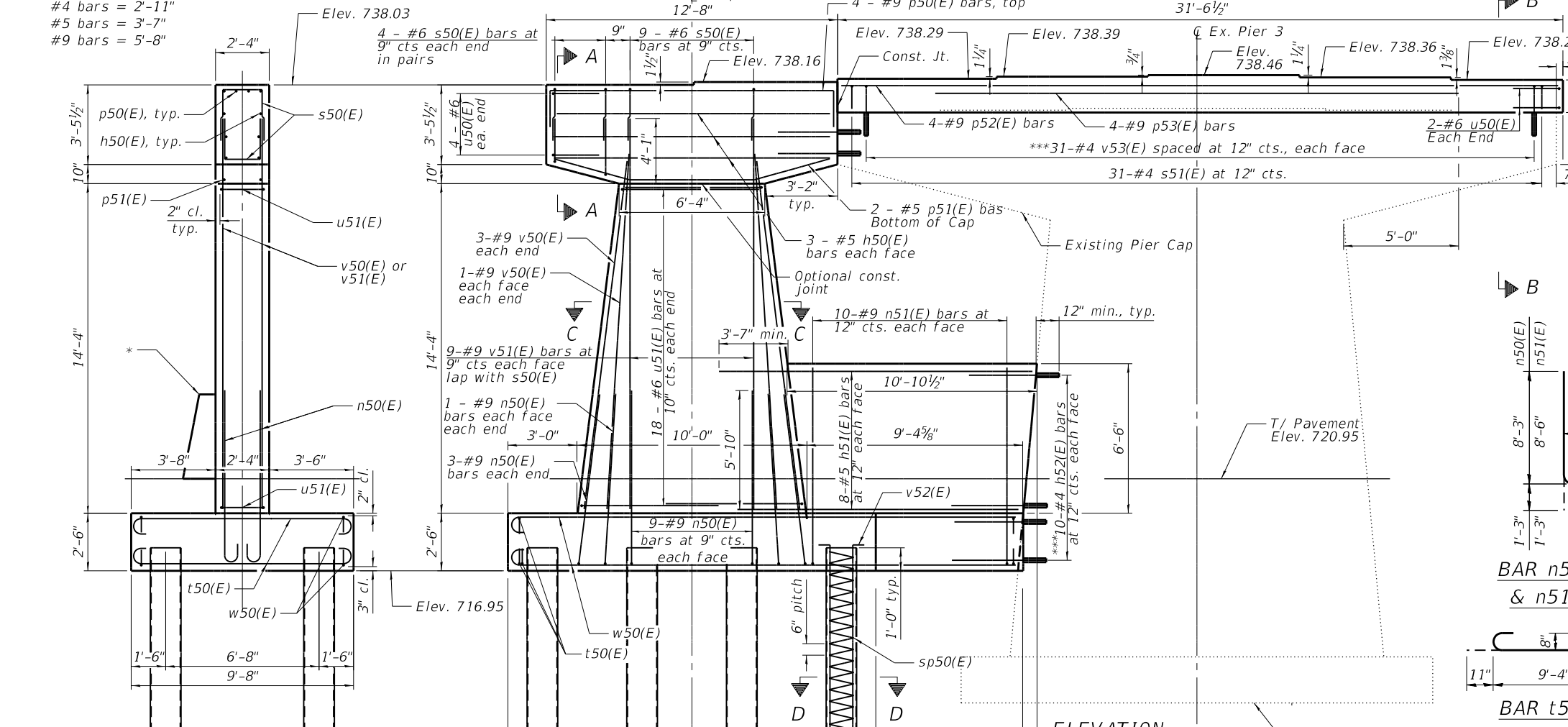
- #4 bars = 2'-11"
- #5 bars = 3'-7"
- #9 bars = 5'-8"



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h50(E)	6	#5	12'-4"	—
h51(E)	16	#5	14'-4"	—
h52(E)	24	#4	4'-1"	—
n50(E)	28	#9	9'-6"	C
n51(E)	20	#9	9'-9"	C
p50(E)	4	#9	15'-6"	U
p51(E)	2	#5	12'-6"	—
p52(E)	4	#9	31'-2"	—
p53(E)	4	#9	22'-9"	—
s50(E)	25	#6	8'-4"	□
s51(E)	31	#4	4'-2"	□
sp50(E)	8	#4	41'-6"	W
t50(E)	83	#8	11'-2"	C
u50(E)	12	#6	10'-8"	—
u51(E)	36	#6	14'-0"	—
v50(E)	10	#9	15'-2"	—
v51(E)	18	#9	18'-3"	—
v52(E)	112	#7	42'-8"	—
v53(E)	62	#4	2'-11"	—
w50(E)	36	#8	22'-11"	C
Structure Excavation		Cu. Yd.	53	
Concrete Structures		Cu. Yd.	44.6	
Reinforcement Bars, Epoxy Coated		Pound	22,000	
Furn. Metal Shell Piles 16" x 0.375"		Foot	378	
Test Pile, Metal Shells		Each	1	
Driving Piles		Foot	378	
Pile Shoes		Each	8	
Concrete Sealer		Sq. Ft.	536	
Name Plate		Each	1	

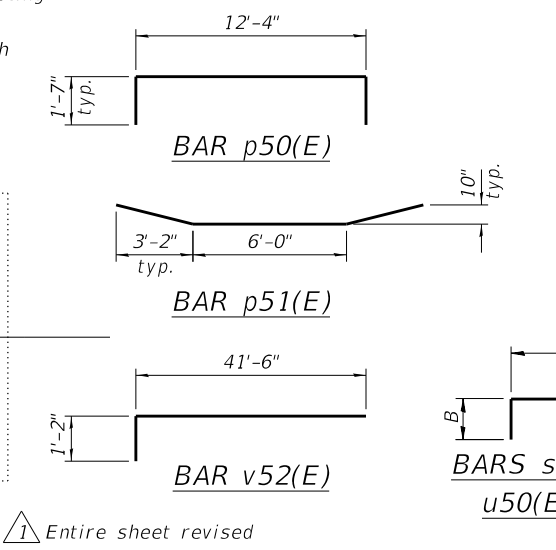
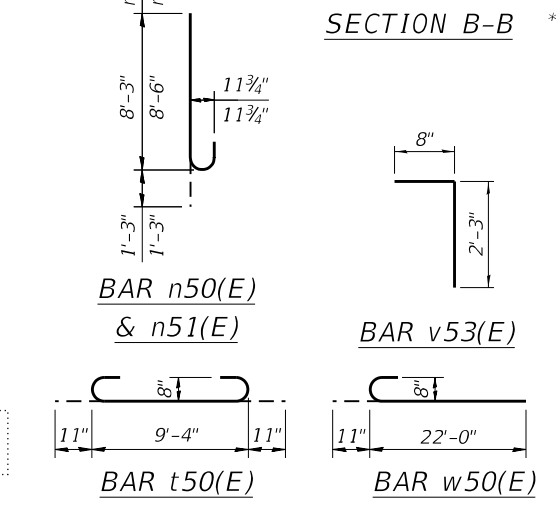
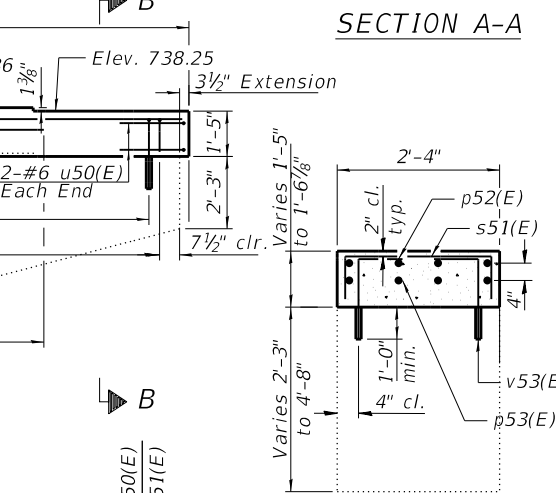
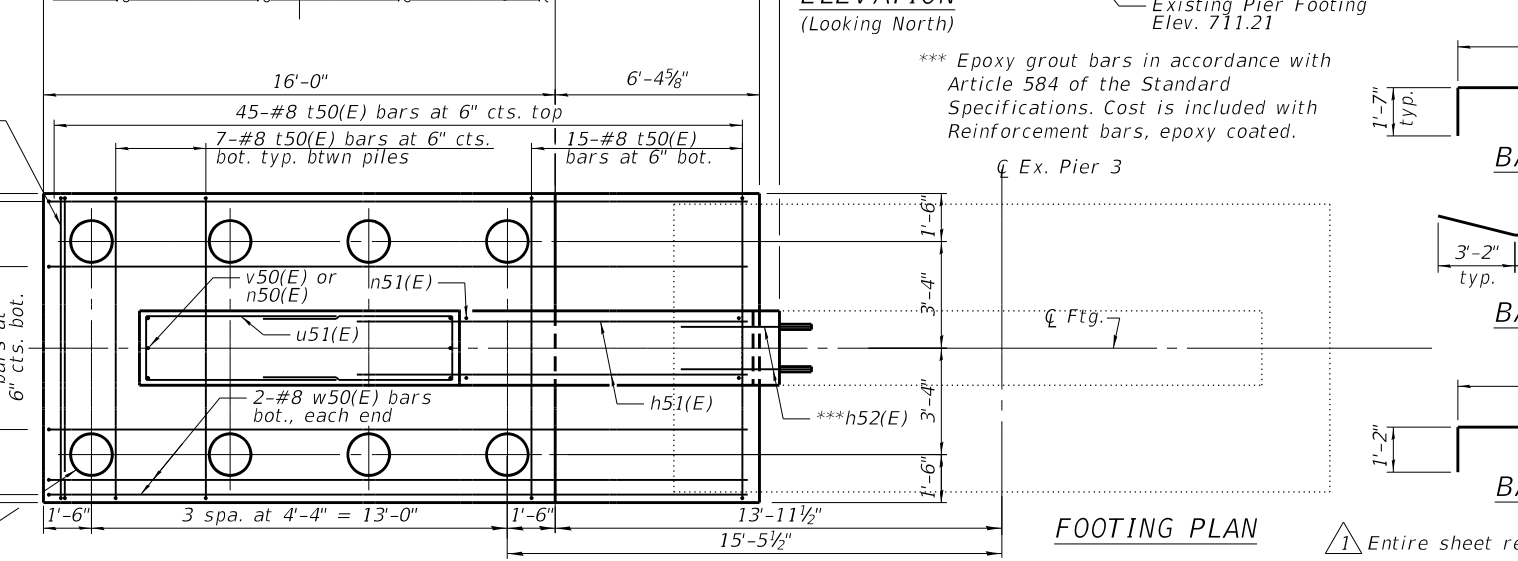
** Length is height of spiral
 Minimum lap for spirals = 2'-7"



SECTION D-D

PILE DATA

Type: Metal Shell Piles 16" x 0.375" with conical tips (pile shoes)
 Nominal Required Bearing: 523 kip
 Factored Resistance Available: 287 kip
 Est. Length: 54 ft
 No. Production Piles: 7
 No. Test Piles: 1



A & B DIMENSIONS

Bar	A	B
s50(E)	2'-0"	3'-2"
s51(E)	2'-0"	1'-1"
u50(E)	2'-0"	4'-4"
u51(E)	2'-0"	6'-0"

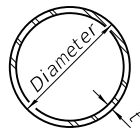


USER NAME = kanderson	DESIGNED KJA	REVISED 4/8/2022 KJA
CHECKED MGZM	REVISION -	
PLOT SCALE =	DRAWN KC	REVISION -
PLOT DATE = 4/8/2022	CHECKED KJA	REVISION -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

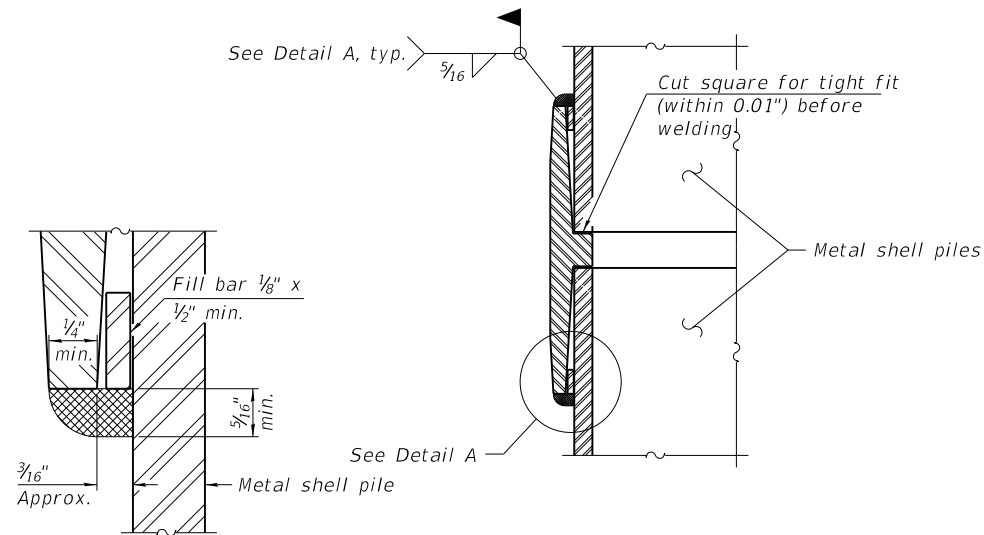
PIER 3 WIDENING
 STRUCTURE NO. 099-0192
 SHEET 30 OF 38 SHEETS

F.A.I. RTE. 80	SECTION 2020-250-BY	COUNTY WILL	TOTAL SHEETS 133	SHEET NO. 92
CONTRACT NO. 62N20			ILLINOIS	

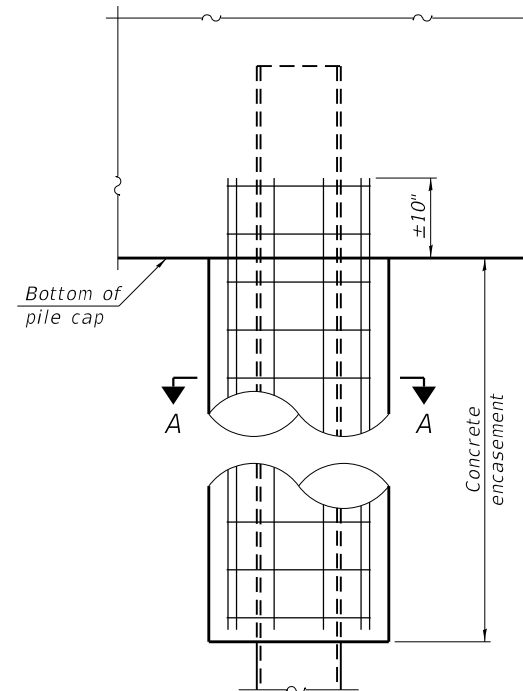


METAL SHELL PILE TABLE

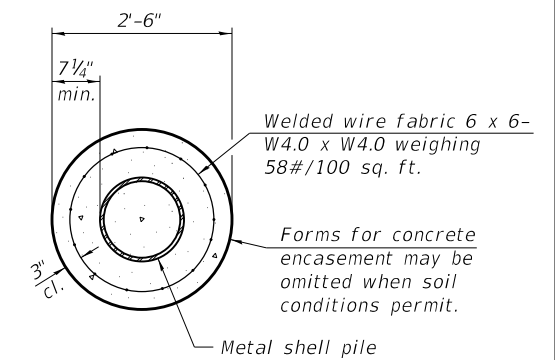
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



DETAIL A

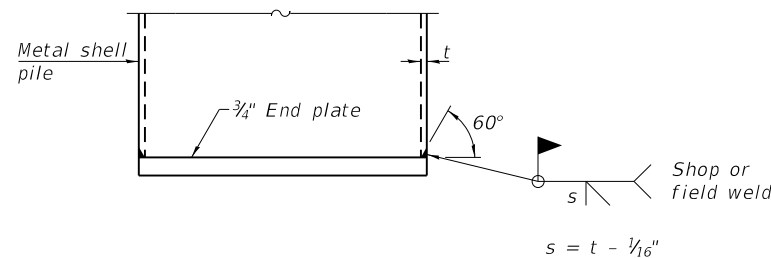


ELEVATION



SECTION A-A

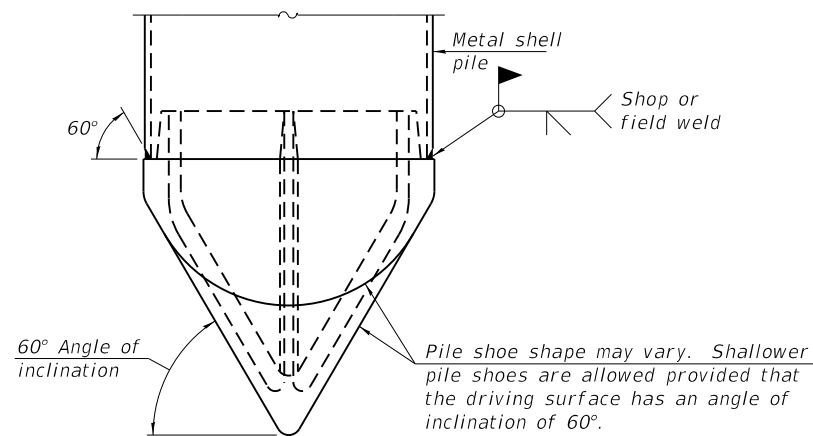
INDIVIDUAL PILE CONCRETE ENCASEMENT
(When specified)



END PLATE ATTACHMENT

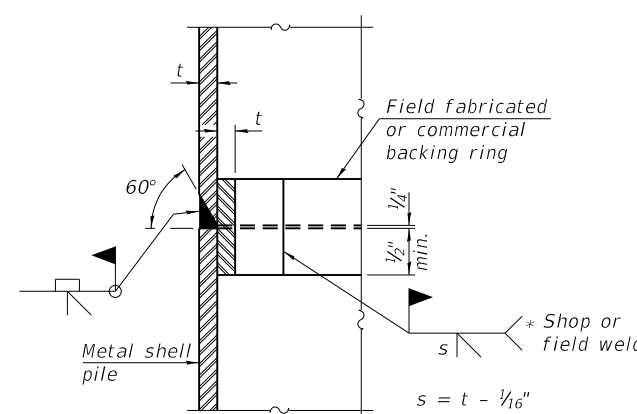
WELDED COMMERCIAL SPLICE

Notes:
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.



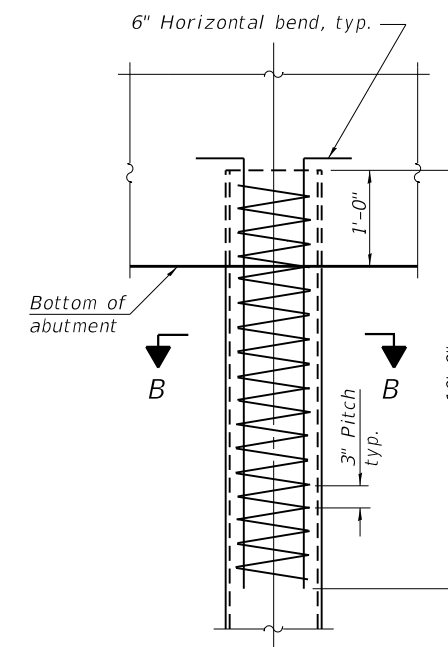
PILE SHOE ATTACHMENT

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).

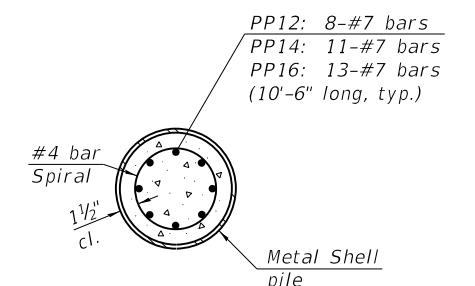


COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION



SECTION B-B

REINFORCEMENT AT ABUTMENTS
(Omit when concrete encasement is specified)

PP12: 8-#7 bars
PP14: 11-#7 bars
PP16: 13-#7 bars
(10'-6" long, typ.)

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

1 Entire sheet revised

F-MS 1-1-2020



USER NAME = kanderson	DESIGNED KJA	REVISED 4/8/2022 KJA
CHECKED MGZM	REVISED -	
PLOT SCALE =	DRAWN KC	REVISED -
PLOT DATE = 4/8/2022	CHECKED KJA	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**METAL SHELL PILE DETAILS
STRUCTURE NO. 099-0192**

SHEET 31 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2020-250-BY	WILL	133	93
			CONTRACT NO. 62N20	

ILLINOIS

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SOIL BORING LOG

Log of Boring
GC-01
Sheet 1 of 4

ROUTE:	Federal Aid Urban - 2688	DESCRIPTION:	Wolf Road over I-80
SECTION:	99-SHB-4	DRILLER:	Rubino Engineering, Inc.
COUNTY:	Will	DRILLED BY:	Joe Kenny
STRUCT. NO.:	099-0192	DRILL RIG TYPE:	Geoprobe 7822DT
STATION & OFFSET:	184+50.8, 2.4' LT	DRILLING METHOD:	3-1/4" hollow stem auger
SURFACE ELEV.:	741.5 ft	SAMPLING METHOD:	2" Split Spoon
VERTICAL DATUM:	NAVD83	HAMMER TYPE:	Auto Hammer (140 lb)
LAT/LONG:	41.552876, -87.890101	HAMMER EFFICIENCY:	88.8 %
LOCATION:	NE 1/4, SEC. 6, T35N, R12E, 3rd PM	REMARKS:	

Depth (ft)	Graphic	Material Description	Elevation (ft): 741.5	Sample Number	Recovery, in. (%)	Sampling Resist. Or Core RCD (%)	Remar. Qu (pcf)	Pocket Pen. Qu (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Liquid Limit	Plasticity Index	Depth (ft)	Remarks
1	0.8	ASPHALT	740.7										1	
1	1.5	CONCRETE	739.3										1	
2	2.1	CRUSHED STONE	738.4										2	
3		CLAY: Soft, brown, moist, low plastic, some fine sand, trace gravel; (FILL)	738										3	
4			736	SS-1	5 (28)	1-2-2 N = 4	0.5 B		20				4	
5			736										5	
6	5.8	CLAY (A-7-6(18)): Stiff, brown to greenish brown, moist, low plastic, with fine to coarse sand, trace gravel; (FL)	735										6	
7			734	SS-2	17 (95)	3-5-6 N = 11	6.5 B		16				7	
8			734										8	
9			732	SS-3	13 (72)	4-5-8 N = 13	3.8 B		17	44	21		9	
10			732										10	
11			730	SS-4	17 (95)	3-5-6 N = 11	3.1 S		25				11	
12			728										12	
13	12.6	CLAY: Stiff, brown and gray, dry, low plastic, with fine to coarse sand, trace gravel; (GLACIAL TILL)	728										13	
14			728	SS-5	17 (95)	5-6-9 N = 15	2.1 S		16				14	
15			726										15	
16			726										16	
17			724	SS-6	18 (100)	3-5-7 N = 12	2.9 S		17				17	
18			724										18	
19			722	SS-7	17 (95)	7-7-10 N = 17	4.6 B		18				19	
20			722										20	



SOIL BORING LOG

Log of Boring
GC-01
Sheet 2 of 4

ROUTE:	Federal Aid Urban - 2688	DESCRIPTION:	Wolf Road over I-80
SECTION:	99-SHB-4	DRILLER:	Rubino Engineering, Inc.
COUNTY:	Will	DRILLED BY:	Joe Kenny
STRUCT. NO.:	099-0192	DRILL RIG TYPE:	Geoprobe 7822DT
STATION & OFFSET:	184+50.8, 2.4' LT	DRILLING METHOD:	3-1/4" hollow stem auger
SURFACE ELEV.:	741.5 ft	SAMPLING METHOD:	2" Split Spoon
VERTICAL DATUM:	NAVD83	HAMMER TYPE:	Auto Hammer (140 lb)
LAT/LONG:	41.552876, -87.890101	HAMMER EFFICIENCY:	88.8 %
LOCATION:	NE 1/4, SEC. 6, T35N, R12E, 3rd PM	REMARKS:	

Depth (ft)	Graphic	Material Description	Elevation (ft): 741.5	Sample Number	Recovery, in. (%)	Sampling Resist. Or Core RCD (%)	Remar. Qu (pcf)	Pocket Pen. Qu (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Liquid Limit	Plasticity Index	Depth (ft)	Remarks
22		CLAY: Stiff, brown and gray, dry, low plastic, with fine to coarse sand, trace gravel; (GLACIAL TILL)	720	SS-8	16 (89)	5-6-8 N = 14	4.6 B		17				22	
23			718										23	
24	24.1	CLAY (A-6(12)): Stiff, brown and gray, dry to moist, low plastic, some fine to coarse sand, trace gravel; (GLACIAL TILL)	717.4	SS-9	16 (89)	4-6-10 N = 16	5.0 S		18				24	
25			716										25	
26			714	SS-10	16 (89)	3-5-8 N = 13	3.5 B		18				26	
27			714										27	
28			712	SS-11	16 (89)	3-5-6 N = 11	3.5 B		18	33	15		28	
29			710										29	
30			710										30	
31			708										31	
32			708										32	
33			706										33	
34			704	SS-12	17 (95)	3-6-13 N = 19	4.4 B		17				34	
35			704										35	
36			704										36	
37	37.3	CLAY: Stiff, gray, moist, low plastic, some gravel, some fine sand; (GLACIAL TILL)	704.2										37	
38			702										38	
39			702	SS-13	13 (72)	8-17-20 N = 37	3.8 P		17				39	
40			702										40	
41			700										41	



SOIL BORING LOG

Log of Boring
GC-01
Sheet 3 of 4

ROUTE:	Federal Aid Urban - 2688	DESCRIPTION:	Wolf Road over I-80
SECTION:	99-SHB-4	DRILLER:	Rubino Engineering, Inc.
COUNTY:	Will	DRILLED BY:	Joe Kenny
STRUCT. NO.:	099-0192	DRILL RIG TYPE:	Geoprobe 7822DT
STATION & OFFSET:	184+50.8, 2.4' LT	DRILLING METHOD:	3-1/4" hollow stem auger
SURFACE ELEV.:	741.5 ft	SAMPLING METHOD:	2" Split Spoon
VERTICAL DATUM:	NAVD83	HAMMER TYPE:	Auto Hammer (140 lb)
LAT/LONG:	41.552876, -87.890101	HAMMER EFFICIENCY:	88.8 %
LOCATION:	NE 1/4, SEC. 6, T35N, R12E, 3rd PM	REMARKS:	

Depth (ft)	Graphic	Material Description	Elevation (ft): 741.5	Sample Number	Recovery, in. (%)	Sampling Resist. Or Core RCD (%)	Remar. Qu (pcf)	Pocket Pen. Qu (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Liquid Limit	Plasticity Index	Depth (ft)	Remarks
43		CLAY: Stiff, gray, moist, low plastic, some gravel, some fine sand; (GLACIAL TILL)	698										43	
44			698	SS-14	0 (0)	4-7-10 N = 17							44	
45			696										45	
46			696										46	
47			694										47	
48			692	SS-15	18 (100)	3-5-7 N = 12	2.7 B		13				48	
49			692										49	
50			690										50	
51			690										51	
52	52.1	Clay LOAM: Stiff, gray, moist, low plastic, with fine to coarse sand, some gravel; (GLACIAL TILL)	688.4										52	
53			688										53	
54			686	SS-16	13 (72)	5-8-10 N = 18	2.2 B		14				54	
55			686										55	
56	56.7	Clay LOAM: Stiff, gray, moist, low plastic, some fine sand, some gravel; (GLACIAL TILL)	685.8										56	
57			684										57	
58			682	SS-17	18 (100)	4-6-8 N = 14	1.8 B		15				58	
59			682										59	
60			680										60	
61			680										61	
62	62.2	Clay LOAM: Stiff, brown, moist, low	679.3										62	

Entire sheet revised



USER NAME =	kanderson	DESIGNED	KJA	REVISED	4/8/2022	KJA
CHECKED	MG/ZM	REVISED	-			
PLOT SCALE =		DRAWN	KC	REVISED	-	
PLOT DATE =	4/8/2022	CHECKED	KJA	REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS I
STRUCTURE NO. 099-0192

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2020-250-BY	WILL	133	94
CONTRACT NO. 62N20				

SHEET 32 OF 38 SHEETS

ILLINOIS

MODEL: Default
 FILE NAME: p:\v\primera-pw\entire\primera-pw-01\Documents\01 Projects\2020\20200425.00 - IDOT Phase II Various Design\20200425.01_WO 1-3 - Wolf Road over I-80\Drawings\Current Drawing Files\CADD_Sheets\Structural\Wolf_Road_SHT33_BoringLogs.dgn
 4/8/2022 3:36:14 PM



SOIL BORING LOG

Log of Boring
GC-01
Sheet 4 of 4

ROUTE:	Federal Aid Urban - 2688	DESCRIPTION:	Wolf Road over I-80
SECTION:	99-SHB-4	DRILLER:	Rubino Engineering, Inc.
COUNTY:	Will	DRILLED BY:	Joe Kenny
STRUCT. NO.:	099-0192	DRILL RIG TYPE:	Geoprobe 7822DT
STATION & OFFSET:	184+50.8, 2.4' LT	DRILLING METHOD:	3-1/4" hollow stem auger
SURFACE ELEV.:	741.5 ft	SAMPLING METHOD:	2" Split Spoon
VERTICAL DATUM:	NAVD83	HAMMER TYPE:	Auto Hammer (140 lb)
LAT/LONG:	41.552876, -87.890101	HAMMER EFFICIENCY:	88.8 %
LOCATION:	NE 1/4, SEC. 6, T35N, R12E, 3rd PM	REMARKS:	

Depth (ft)	Material Description	Elevation (ft): 741.5	Sample Number	Recovery, in. (%)	Sampling Resist. Core RCD(%)	Rimac, Cu (pcf)	Pocket Pen. Q _u (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Liquid Limit	Plasticity Index	Depth (ft)	Remarks
64	Clay LOAM: Stiff, brown, moist, low plastic, with fine sand, some gravel; (GLACIAL TILL)	678	SS-18	18 (100)	5-11-23 N = 34	1.6 B		13				64	
66	SAND: Medium dense, gray, wet, fine to coarse-grained, trace gravel; (GLACIAL TILL)	675.3										66	
67		674										67	
68		673										68	
69		672	SS-19A	18 (100)	11-13-11 N = 24	3.1 B		15				69	
70		671.8	SS-19B									70	
71	CLAY: Dense, brown, moist, low plastic, with fine sand, some gravel; (GLACIAL TILL)	670										71	
72		668										72	
73		666										73	
74		665.5	SS-20	13 (72)	8-11-10 N = 21	1.3 B		19				74	
75	Boring terminated at 75.0'	665										75	



SOIL BORING LOG

Log of Boring
GC-02
Sheet 1 of 4

ROUTE:	Federal Aid Urban - 2688	DESCRIPTION:	Wolf Road over I-80
SECTION:	99-SHB-4	DRILLER:	Rubino Engineering, Inc.
COUNTY:	Will	DRILLED BY:	Joe Kenny
STRUCT. NO.:	099-0192	DRILL RIG TYPE:	Geoprobe 7822DT
STATION & OFFSET:	183+45.8, 17.0' LT	DRILLING METHOD:	3-1/4" hollow stem auger
SURFACE ELEV.:	721.6 ft	SAMPLING METHOD:	2" Split Spoon
VERTICAL DATUM:	NAVD83	HAMMER TYPE:	Auto Hammer (140 lb)
LAT/LONG:	41.552588, -87.890175	HAMMER EFFICIENCY:	88.8 %
LOCATION:	NE 1/4, SEC. 6, T35N, R12E, 3rd PM	REMARKS:	

Depth (ft)	Material Description	Elevation (ft): 721.6	Sample Number	Recovery, in. (%)	Sampling Resist. Core RCD(%)	Rimac, Cu (pcf)	Pocket Pen. Q _u (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Liquid Limit	Plasticity Index	Depth (ft)	Remarks
1	CONCRETE	728.6										1	
2	CRUSHED STONE	720	SS-1	12 (67)	16-10-8 N = 18							2	
3		718.4										3	
4	CLAY: Stiff, brown, moist, low plastic, with fine sand; (GLACIAL TILL)	718	SS-2	13 (72)	6-5-9 N = 14	2.7 B		16				4	
5		716										5	
6		714	SS-3	17 (95)	3-4-6 N = 10	2.7 B		17				6	
7		712										7	
8		710	SS-4	18 (100)	4-4-5 N = 9	3.5 B		12				8	
9		708										9	
10		706	SS-5	2 (11)	3-4-5 N = 9			16				10	
11		704										11	
12		702	SS-6	15 (83)	2-4-6 N = 10	3.7 B		18		33	14	12	
13	CLAY (A-6(11)): Stiff, gray, moist, low plastic, some fine to coarse sand, some gravel; (GLACIAL TILL)	700										13	
14		700	SS-7	0 (0)	4-6-1 N = 7			19				14	
15		700										15	
16		700	SS-8	18 (100)	3-4-7 N = 11	2.7 B		18				16	
17		700										17	
18		700										18	
19		700										19	
20		700										20	



SOIL BORING LOG

Log of Boring
GC-02
Sheet 2 of 4

ROUTE:	Federal Aid Urban - 2688	DESCRIPTION:	Wolf Road over I-80
SECTION:	99-SHB-4	DRILLER:	Rubino Engineering, Inc.
COUNTY:	Will	DRILLED BY:	Joe Kenny
STRUCT. NO.:	099-0192	DRILL RIG TYPE:	Geoprobe 7822DT
STATION & OFFSET:	183+45.8, 17.0' LT	DRILLING METHOD:	3-1/4" hollow stem auger
SURFACE ELEV.:	721.6 ft	SAMPLING METHOD:	2" Split Spoon
VERTICAL DATUM:	NAVD83	HAMMER TYPE:	Auto Hammer (140 lb)
LAT/LONG:	41.552588, -87.890175	HAMMER EFFICIENCY:	88.8 %
LOCATION:	NE 1/4, SEC. 6, T35N, R12E, 3rd PM	REMARKS:	

Depth (ft)	Material Description	Elevation (ft): 721.6	Sample Number	Recovery, in. (%)	Sampling Resist. Core RCD(%)	Rimac, Cu (pcf)	Pocket Pen. Q _u (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Liquid Limit	Plasticity Index	Depth (ft)	Remarks
22	CLAY (A-6(11)): Stiff, gray, moist, low plastic, some fine to coarse sand, some gravel; (GLACIAL TILL)	700	SS-9	15 (83)	1-3-4 N = 7	1.0 B		13				22	
23		698										23	
24		696	SS-10	16 (89)	2-3-9 N = 12	1.6 B		15				24	
25		694										25	
26		692	SS-11	18 (100)	3-5-5 N = 10	1.5 B		12				26	
27		690										27	
28		688	SS-12	18 (100)	3-4-7 N = 11	3.5 B		12				28	
29		686										29	
30		684										30	
31		682										31	
32	CLAY LOAM (A-4(2)): Medium stiff, gray, moist, low plastic, with fine to coarse sand, some gravel; (GLACIAL TILL)	680										32	
33		678										33	
34		676	SS-13	16 (89)	3-7-8 N = 15	1.3 B		15		22	7	34	
35		674										35	
36		672										36	
37		670										37	
38		668										38	
39		666	SS-14	18 (100)	1-3-6 N = 9	2.7 B		12				39	
40		664										40	
41		662										41	

1 Entire sheet revised



USER NAME =	kanderson	DESIGNED	KJA	REVISED	4/8/2022	KJA
CHECKED	MG/ZM	REVISION	-			
PLOT SCALE =		DRAWN	KC	REVISION	-	
PLOT DATE =	4/8/2022	CHECKED	KJA	REVISION	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS II
STRUCTURE NO. 099-0192
 SHEET 33 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2020-250-BY	WILL	133	95
CONTRACT NO. 62N20				

MODEL: Default
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 4/8/2022 3:38:43 PM



SOIL BORING LOG

Log of Boring
GC-02
Sheet 3 of 4

ROUTE:	Federal Aid Urban - 2688	DESCRIPTION:	Wolf Road over I-80
SECTION:	99-5HB-4	DRILLER:	Rubino Engineering, Inc.
COUNTY:	Will	LOGGED BY:	Nikki Kurfman (Gonzalez)
STRUCT. NO.:	099-0192	DRILL RIG TYPE:	Geoprobe 7822DT
STATION & OFFSET:	183+45.8, 17.0' LT	DRILLING METHOD:	3-1/4" hollow stem auger
SURFACE ELEV.:	721.6 ft	SAMPLING METHOD:	2" Split Spoon
VERTICAL DATUM:	NAVD83	HAMMER TYPE:	Auto Hammer (140 lb)
LAT/LONG:	41.552588, -87.890175	HAMMER EFFICIENCY:	88.8 %
LOCATION:	NE 1/4, SEC. 6, T35N, R12E, 3rd PM	REMARKS:	

Depth (ft)	Material Description	Elevation (ft)	Sample Number	Recovery, in. (%)	Sampling Resist. Or Core RQD (%)	Rem. Cu (pcf)	Pocket Pen. Cu (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Liquid Limit	Plasticity Index	Depth (ft)	Remarks
43	Clay LOAM (A-4(2)): Medium stiff, gray, moist, low plastic, with fine to coarse sand, some gravel; (GLACIAL TILL)	721.6										43	
44		678	SS-15	15 (83)	2-4-11 N = 15	1.6 B		13				44	
45		675										45	
46		675										46	
47		674										47	
48		674										48	
49		672	SS-16	0 (0)	6-12-14 N = 26							49	
50	CLAY: Very stiff, brown, moist to dry, low plastic, with fine to coarse sand, trace gravel; (GLACIAL TILL)	671.6										50	
51		670	SS-17	18 (100)	3-4-8 N = 12	0.7 B		15				51	
52		668										52	
53		668	SS-18	18 (100)	6-9-14 N = 23	2.9 B		14				53	
54		666										54	
55		666										55	
56		664										56	
57	CLAY: Stiff, brown, moist, low plastic, with fine to coarse sand, some gravel; (GLACIAL TILL)	664										57	
58		662	SS-19	17 (95)	7-12-6 N = 18	0.9 B		15				58	
59		662										59	
60		660										60	
61		660										61	
62		660										62	



SOIL BORING LOG

Log of Boring
GC-02
Sheet 4 of 4

ROUTE:	Federal Aid Urban - 2688	DESCRIPTION:	Wolf Road over I-80
SECTION:	99-5HB-4	DRILLER:	Rubino Engineering, Inc.
COUNTY:	Will	LOGGED BY:	Nikki Kurfman (Gonzalez)
STRUCT. NO.:	099-0192	DRILL RIG TYPE:	Geoprobe 7822DT
STATION & OFFSET:	183+45.8, 17.0' LT	DRILLING METHOD:	3-1/4" hollow stem auger
SURFACE ELEV.:	721.6 ft	SAMPLING METHOD:	2" Split Spoon
VERTICAL DATUM:	NAVD83	HAMMER TYPE:	Auto Hammer (140 lb)
LAT/LONG:	41.552588, -87.890175	HAMMER EFFICIENCY:	88.8 %
LOCATION:	NE 1/4, SEC. 6, T35N, R12E, 3rd PM	REMARKS:	

Depth (ft)	Material Description	Elevation (ft)	Sample Number	Recovery, in. (%)	Sampling Resist. Or Core RQD (%)	Rem. Cu (pcf)	Pocket Pen. Cu (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Liquid Limit	Plasticity Index	Depth (ft)	Remarks
64	CLAY: Stiff, brown, moist, low plastic, with fine to coarse sand, some gravel; (GLACIAL TILL)	680										64	
65	SAND: Dense, brown, wet, fine- to coarse-grained, with gravel; (GLACIAL TILL)	658.9	SS-20	11 (61)	14-18-20 N = 38			20				65	
66	SILT: Medium stiff, brown, wet, low plastic, some fine sand; (GLACIAL TILL)	656										66	
67		654										67	
68	Silty LOAM: Very stiff, gray, moist, low plastic, with fine sand, some gravel; (GLACIAL TILL)	654										68	
69		652	SS-21	18 (100)	6-8-10 N = 18	2.0 B		13				69	
70		652										70	
71		650										71	
72		648										72	
73		648										73	
74	CLAY: Very stiff, gray, dry, low plastic, some fine to coarse sand, some gravel; (GLACIAL TILL)	647.4	SS-22	18 (100)	8-8-10 N = 18	4.7 B		17				74	
75		646										75	
76		646										76	
77		644										77	
78	SAND: Medium dense, gray, moist, fine- to coarse-grained, with gravel; (GLACIAL TILL)	644										78	
79	CLAY: Stiff, gray, moist, low plastic, with fine to coarse sand, some gravel; (GLACIAL TILL)	643.3	SS-23	13 (72)	7-4-8 N = 12			9				79	
80	Boring terminated at 80.0'	643.3										80	
81		640										81	
82		640										82	
83		638										83	



SOIL BORING LOG

Log of Boring
GC-03
Sheet 1 of 4

ROUTE:	Federal Aid Urban - 2688	DESCRIPTION:	Wolf Road over I-80
SECTION:	99-5HB-4	DRILLER:	Rubino Engineering, Inc.
COUNTY:	Will	LOGGED BY:	Nikki Kurfman (Gonzalez)
STRUCT. NO.:	099-0192	DRILL RIG TYPE:	Geoprobe 7822DT
STATION & OFFSET:	182+94.7, 20.0' LT	DRILLING METHOD:	3-1/4" hollow stem auger
SURFACE ELEV.:	721.2 ft	SAMPLING METHOD:	2" Split Spoon
VERTICAL DATUM:	NAVD83	HAMMER TYPE:	Auto Hammer (140 lb)
LAT/LONG:	41.552448, -87.890183	HAMMER EFFICIENCY:	88.8 %
LOCATION:	NE 1/4, SEC. 6, T35N, R12E, 3rd PM	REMARKS:	

Depth (ft)	Material Description	Elevation (ft)	Sample Number	Recovery, in. (%)	Sampling Resist. Or Core RQD (%)	Rem. Cu (pcf)	Pocket Pen. Cu (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Liquid Limit	Plasticity Index	Depth (ft)	Remarks
1	CONCRETE	720										1	
2	CRUSHED STONE	718	SS-1	13 (72)	13-10-6 N = 16			7				2	
3		718										3	
4	CLAY: Medium stiff, brown, moist, low plastic, some fine sand; (FILL)	716	SS-2	14 (78)	6-6-6 N = 12			1.5 P	18			4	
5		716										5	
6	Clay LOAM (A-4(4)): Medium stiff, gray, moist, low plastic, with fine to coarse sand, some gravel; (GLACIAL TILL)	715.5										6	
7		714	SS-3	11 (61)	3-3-4 N = 7	1.6 B		16		25	8	7	
8		712										8	
9		712	SS-4	4 (22)	2-4-7 N = 11	1.8 P		14				9	
10		710										10	
11		710	SS-5	14 (78)	2-2-4 N = 6	1.8 B		15				11	
12		708										12	
13		708	SS-6	17 (95)	3-4-7 N = 11	3.6 B		16				13	
14		706										14	
15		706										15	
16		704	SS-7	13 (72)	3-4-6 N = 10	2.5 B		14		24	8	16	
17		704										17	
18		702	SS-8	13 (72)	3-4-8 N = 12	3.9 B		17				18	
19		702										19	
20		702										20	

Entire sheet revised



USER NAME =	kanderson	DESIGNED	KJA	REVISED	4/8/2022	KJA
CHECKED	MG/ZM	REVISION	-			
PLOT SCALE =		DRAWN	KC	REVISION	-	
PLOT DATE =	4/8/2022	CHECKED	KJA	REVISION	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS III
STRUCTURE NO. 099-0192
SHEET 34 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2020-250-BY	WILL	133	96
CONTRACT NO. 62N20			ILLINOIS	

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 100 N. WACKER DRIVE SUITE 700, CHICAGO, IL 60606 - 703.212-405-8000 FAX 703.212-405-4045



SOIL BORING LOG

Log of Boring
GC-03
Sheet 2 of 4

ROUTE:	Federal Aid Urban - 2688	DESCRIPTION:	Wolf Road over I-80
SECTION:	99-5HB-4	DRILLER:	Rubino Engineering, Inc.
COUNTY:	Will	DRILLED BY:	Joe Kenny
STRUCT. NO.:	099-0192	LOGGED BY:	Nikki Kurfman (Gonzalez)
STATION & OFFSET:	182+94.7, 20.0' LT	DRILL RIG TYPE:	Geoprobe 7822DT
SURFACE ELEV.:	721.2 ft	DRILLING METHOD:	3-1/4" hollow stem auger
VERTICAL DATUM:	NAVD83	SAMPLING METHOD:	2" Split Spoon
LAT/LONG:	41.552448, -87.890183	HAMMER TYPE:	Auto Hammer (140 lb)
LOCATION:	NE 1/4, SEC. 6, T35N, R12E, 3rd PM	HAMMER EFFICIENCY:	88.8 %

Depth (ft)	Graphic	Material Description	Elevation (ft): 721.2	Sample Number	Recovery, in. (%)	Sampling Resist. Or Core RQD (%)	Remo. Cu (sf)	Pocket Pen. Cu (sf)	Moisture Content (%)	Dry Unit Weight (pcf)	Liquid Limit	Plasticity Index	Depth (ft)	Remarks
22		Clay LOAM (A-4(4)): Medium stiff, gray, moist, low plastic, with fine to coarse sand, some gravel; (GLACIAL TILL)	700	SS-9	13 (72)	3-3-7 N = 10	3.6 B	20					22	
23		SAND: Medium dense, gray, moist, fine to coarse-grained, with gravel; (GLACIAL TILL)	697.9	SS-10	16 (89)	10-4-5 N = 9	1.6 B	14					23	
24		Clay LOAM: Stiff, gray, moist, low plastic, with fine to coarse sand, some gravel; (GLACIAL TILL)	696	SS-11	18 (100)	2-6-6 N = 12	3.0 B	14					24	
25		Clay LOAM: Stiff, gray, moist, low plastic, with fine to coarse sand, some gravel; (GLACIAL TILL)	694	SS-12	14 (78)	3-3-6 N = 9	1.5 B	13					25	
26		Clay LOAM: Stiff, gray, moist, low plastic, with fine to coarse sand, some gravel; (GLACIAL TILL)	692	SS-13	18 (100)	4-7-11 N = 18	1.2 B	14					26	
27		Clay LOAM (A-4(0)): Soft, gray, moist, low plastic, with fine to coarse sand, trace gravel; (GLACIAL TILL)	681.7	SS-14A	17 (95)	5-5-6 N = 11	3.5 B	16					27	
28		Clay LOAM: Stiff, gray, moist, low plastic, some fine sand; (GLACIAL TILL)	680.9	SS-14B				16			20	4	28	



SOIL BORING LOG

Log of Boring
GC-03
Sheet 3 of 4

ROUTE:	Federal Aid Urban - 2688	DESCRIPTION:	Wolf Road over I-80
SECTION:	99-5HB-4	DRILLER:	Rubino Engineering, Inc.
COUNTY:	Will	DRILLED BY:	Joe Kenny
STRUCT. NO.:	099-0192	LOGGED BY:	Nikki Kurfman (Gonzalez)
STATION & OFFSET:	182+94.7, 20.0' LT	DRILL RIG TYPE:	Geoprobe 7822DT
SURFACE ELEV.:	721.2 ft	DRILLING METHOD:	3-1/4" hollow stem auger
VERTICAL DATUM:	NAVD83	SAMPLING METHOD:	2" Split Spoon
LAT/LONG:	41.552448, -87.890183	HAMMER TYPE:	Auto Hammer (140 lb)
LOCATION:	NE 1/4, SEC. 6, T35N, R12E, 3rd PM	HAMMER EFFICIENCY:	88.8 %

Depth (ft)	Graphic	Material Description	Elevation (ft): 721.2	Sample Number	Recovery, in. (%)	Sampling Resist. Or Core RQD (%)	Remo. Cu (sf)	Pocket Pen. Cu (sf)	Moisture Content (%)	Dry Unit Weight (pcf)	Liquid Limit	Plasticity Index	Depth (ft)	Remarks
43		Clay LOAM: Stiff, gray, moist, low plastic, some fine sand; (GLACIAL TILL)	678	SS-15	0 (0)	10-10-12 N = 22							43	
44			676										44	
45			674										45	
46			672										46	
47			670.4										47	
48			671.4										48	
49			670.4										49	
50		Clay LOAM: Soft, gray, moist to wet, low plastic, with fine sand, some gravel; (GLACIAL TILL)	670.4	SS-17	13 (72)	7-7-9 N = 16	3.4 B	18					50	
51		Clay LOAM: Stiff, gray, moist, low plastic, some fine to coarse sand, some gravel; (GLACIAL TILL)	670										51	
52			668										52	
53			666										53	
54			663										54	
55		SAND: Medium dense, brown, moist, fine-grained; (GLACIAL TILL)	660	SS-18	18 (100)	6-7-8 N = 15	3.2 B	14					55	
56			658										56	
57			654										57	
58		CLAY: Stiff, brown, wet, low plastic, with gravel, some fine to coarse sand; (GLACIAL TILL)	652	SS-19	4 (22)	7-10-6 N = 16		17					58	
59			652										59	
60			650										60	
61			650										61	
62			650										62	



SOIL BORING LOG

Log of Boring
GC-03
Sheet 4 of 4

ROUTE:	Federal Aid Urban - 2688	DESCRIPTION:	Wolf Road over I-80
SECTION:	99-5HB-4	DRILLER:	Rubino Engineering, Inc.
COUNTY:	Will	DRILLED BY:	Joe Kenny
STRUCT. NO.:	099-0192	LOGGED BY:	Nikki Kurfman (Gonzalez)
STATION & OFFSET:	182+94.7, 20.0' LT	DRILL RIG TYPE:	Geoprobe 7822DT
SURFACE ELEV.:	721.2 ft	DRILLING METHOD:	3-1/4" hollow stem auger
VERTICAL DATUM:	NAVD83	SAMPLING METHOD:	2" Split Spoon
LAT/LONG:	41.552448, -87.890183	HAMMER TYPE:	Auto Hammer (140 lb)
LOCATION:	NE 1/4, SEC. 6, T35N, R12E, 3rd PM	HAMMER EFFICIENCY:	88.8 %

Depth (ft)	Graphic	Material Description	Elevation (ft): 721.2	Sample Number	Recovery, in. (%)	Sampling Resist. Or Core RQD (%)	Remo. Cu (sf)	Pocket Pen. Cu (sf)	Moisture Content (%)	Dry Unit Weight (pcf)	Liquid Limit	Plasticity Index	Depth (ft)	Remarks
64		CLAY: Stiff, brown, wet, low plastic, with gravel, some fine to coarse sand; (GLACIAL TILL)	658	SS-20	16 (89)	6-18-12 N = 30	4.8 B	18					64	
65			658										65	
66			658										66	
67			654										67	
68		Silt LOAM: Stiff, gray, dry, low plastic, with fine sand; (GLACIAL TILL)	654	SS-21	18 (100)	8-8-8 N = 16	4.5 B	15					68	
69			652										69	
70			650										70	
71			648.1										71	
72		CLAY: Stiff, gray, moist, low plastic, some fine sand; (GLACIAL TILL)	648.1	SS-22	18 (100)	4-6-8 N = 14	2.6 B	25					72	
73			648										73	
74			646.2										74	
75		Boring terminated at 75.0'	646.2										75	
76			646										76	
77			644										77	
78			642										78	
79			642										79	
80			640										80	
81			640										81	
82			638										82	
83			638										83	

1 Entire sheet revised



USER NAME =	kanderson	DESIGNED	KJA	REVISED	4/8/2022	KJA
CHECKED	MGZM	REVISOR	-	REVISOR	-	
PLOT SCALE =		DRAWN	KC	REVISOR	-	
PLOT DATE =	4/8/2022	CHECKED	KJA	REVISOR	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS IV
STRUCTURE NO. 099-0192

SHEET 35 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2020-250-BY	WILL	133	97
CONTRACT NO. 62N20				

MODEL: Default
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 4/8/2022 3:44:06 PM



SOIL BORING LOG

Log of Boring
GC-04
Sheet 1 of 4

ROUTE:	Federal Aid Urban - 2688	DESCRIPTION:	Wolf Road over I-80
SECTION:	99-SHB-4	DRILLER:	Rubino Engineering, Inc.
COUNTY:	Will	LOGGED BY:	Nikki Kurfman (Gonzalez)
STRUCT. NO.:	099-0192	DRILL RIG TYPE:	Geoprobe 7822DT
STATION & OFFSET:	182+28.0, 20.0' LT	DRILLING METHOD:	3-1/4" hollow stem auger
SURFACE ELEV.:	721.7 ft	SAMPLING METHOD:	2" Split Spoon
VERTICAL DATUM:	NAVD83	HAMMER TYPE:	Auto Hammer (140 lb)
LAT/LONG:	41.552272, -87.890172	HAMMER EFFICIENCY:	88.8 %
LOCATION:	NE 1/4, SEC. 6, T35N, R12E, 3rd PM	REMARKS:	

Depth (ft)	Material Description	Elevation (ft): 721.7	Sample Number	Recovery, in. (%)	Sampling Resist. Or Core RQD (%)	Rimac, Cu (tsf)	Pocket Pen. Cpt (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Liquid Limit	Plasticity Index	Depth (ft)	Remarks
1	CONCRETE	720.7										1	
2	CRUSHED STONE	720	SS-1	8 (45)	12-11-10 N = 21							2	
3	CLAY: Stiff, brown, dry, low plastic; (FILL)	718.4										3	
4		718	SS-2	1 (5)	5-7-9 N = 16		15					4	
5		716.4										5	
6	Clay LOAM (A-4(3)): Stiff, gray, dry, low plastic, with fine to coarse sand, trace gravel; (GLACIAL TILL)	716	SS-3	13 (72)	2-4-6 N = 10	1.8 B	16					6	
7		714										7	
8		712	SS-4	14 (78)	2-3-5 N = 8	1.5 B	15	24	8			8	
9		710	SS-5	15 (83)	2-4-6 N = 10	2.9 B	15					9	
10		708	SS-6	14 (78)	3-5-8 N = 13	3.3 B	15					10	
11		706	SS-7	17 (95)	3-4-7 N = 11	3.3 B	14					11	
12		704	SS-8	18 (100)	3-5-8 N = 13	3.2 P	19					12	



SOIL BORING LOG

Log of Boring
GC-04
Sheet 2 of 4

ROUTE:	Federal Aid Urban - 2688	DESCRIPTION:	Wolf Road over I-80
SECTION:	99-SHB-4	DRILLER:	Rubino Engineering, Inc.
COUNTY:	Will	LOGGED BY:	Nikki Kurfman (Gonzalez)
STRUCT. NO.:	099-0192	DRILL RIG TYPE:	Geoprobe 7822DT
STATION & OFFSET:	182+28.0, 20.0' LT	DRILLING METHOD:	3-1/4" hollow stem auger
SURFACE ELEV.:	721.7 ft	SAMPLING METHOD:	2" Split Spoon
VERTICAL DATUM:	NAVD83	HAMMER TYPE:	Auto Hammer (140 lb)
LAT/LONG:	41.552272, -87.890172	HAMMER EFFICIENCY:	88.8 %
LOCATION:	NE 1/4, SEC. 6, T35N, R12E, 3rd PM	REMARKS:	

Depth (ft)	Material Description	Elevation (ft): 721.7	Sample Number	Recovery, in. (%)	Sampling Resist. Or Core RQD (%)	Rimac, Cu (tsf)	Pocket Pen. Cpt (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Liquid Limit	Plasticity Index	Depth (ft)	Remarks
22	Clay LOAM (A-4(3)): Stiff, gray, dry, low plastic, with fine to coarse sand, trace gravel; (GLACIAL TILL)	700	SS-9	18 (100)	5-7-9 N = 16	4.0 B	15					22	
23		698										23	
24		696	SS-10	18 (100)	4-7-9 N = 16	4.4 B	16					24	
25		696										25	
26		696										26	
27	SAND: Loose, gray, dry, fine- to coarse-grained, some gravel; (GLACIAL TILL)	694	SS-11	12 (67)	4-9-9 N = 18	1.9 B	14					27	
28		694										28	
29		692	SS-12	14 (78)	7-4-5 N = 9	1.6 B	13					29	
30	Clay LOAM: Stiff, gray, moist, low plastic, some fine sand, trace gravel; (GLACIAL TILL)	692										30	
31		690										31	
32		688	SS-13	0 (0)	5-5-6 N = 11							32	
33		686										33	
34		684	SS-14	18 (100)	0-3-4 N = 7	1.8 B	16					34	
35		684										35	
36		682	SS-15	18 (100)	9-7-11 N = 18	2.7 B	16					36	
37		682										37	
38		680										38	
39		680										39	
40		680										40	
41		680										41	



SOIL BORING LOG

Log of Boring
GC-04
Sheet 3 of 4

ROUTE:	Federal Aid Urban - 2688	DESCRIPTION:	Wolf Road over I-80
SECTION:	99-SHB-4	DRILLER:	Rubino Engineering, Inc.
COUNTY:	Will	LOGGED BY:	Nikki Kurfman (Gonzalez)
STRUCT. NO.:	099-0192	DRILL RIG TYPE:	Geoprobe 7822DT
STATION & OFFSET:	182+28.0, 20.0' LT	DRILLING METHOD:	3-1/4" hollow stem auger
SURFACE ELEV.:	721.7 ft	SAMPLING METHOD:	2" Split Spoon
VERTICAL DATUM:	NAVD83	HAMMER TYPE:	Auto Hammer (140 lb)
LAT/LONG:	41.552272, -87.890172	HAMMER EFFICIENCY:	88.8 %
LOCATION:	NE 1/4, SEC. 6, T35N, R12E, 3rd PM	REMARKS:	

Depth (ft)	Material Description	Elevation (ft): 721.7	Sample Number	Recovery, in. (%)	Sampling Resist. Or Core RQD (%)	Rimac, Cu (tsf)	Pocket Pen. Cpt (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Liquid Limit	Plasticity Index	Depth (ft)	Remarks
43	Clay LOAM: Stiff, gray, moist, low plastic, some fine sand, trace gravel; (GLACIAL TILL)	678										43	
44		678	SS-16	18 (100)	3-6-8 N = 14	3.6 B	14					44	
45		676										45	
46		676										46	
47		674										47	
48		672										48	
49		672	SS-17	14 (78)	3-6-14 N = 20	3.7 B	14					49	
50		670										50	
51		668										51	
52		666	SS-18	18 (100)	6-8-10 N = 18	2.5 B	17					52	
53		666										53	
54		664										54	
55		664										55	
56		662	SS-19	0 (0)	8-7-8 N = 15							56	
57		662										57	
58		660										58	
59		660										59	
60		660										60	
61		660										61	
62	CLAY (A-6(19)): Stiff, gray, dry, low plastic, trace sand; (GLACIAL TILL)	659.8										62	

1 Entire sheet revised



USER NAME =	kanderson	DESIGNED	KJA	REVISED	4/8/2022	KJA
CHECKED	MG/ZM	REVISION	-			
PLOT SCALE =		DRAWN	KC	REVISION	-	
PLOT DATE =	4/8/2022	CHECKED	KJA	REVISION	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS V
STRUCTURE NO. 099-0192

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2020-250-BY	WILL	133	98
CONTRACT NO. 62N20				

SHEET 36 OF 38 SHEETS

ILLINOIS

MODEL: Default
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 4/8/2022 3:46:25 PM



SOIL BORING LOG

Log of Boring
GC-04
Sheet 4 of 4

ROUTE:	Federal Aid Urban - 2688	DESCRIPTION:	Wolf Road over I-80
SECTION:	99-SHB-4	DRILLER:	Rubino Engineering, Inc.
COUNTY:	Will	DRILLED BY:	Joe Kenny
STRUCT. NO.:	099-0192	DRILL RIG TYPE:	Geoprobe 7822DT
STATION & OFFSET:	182+28.0, 20.0' LT	DRILLING METHOD:	3-1/4" hollow stem auger
SURFACE ELEV.:	721.7 ft	SAMPLING METHOD:	2" Split Spoon
VERTICAL DATUM:	NAVD83	HAMMER TYPE:	Auto Hammer (140 lb)
LAT/LONG:	41.552272, -87.890172	HAMMER EFFICIENCY:	88.8 %
LOCATION:	NE 1/4, SEC. 6, T35N, R12E, 3rd PM	REMARKS:	

Depth (ft)	Material Description	Elevation (ft) - 721.7	Sample Number	Recovery, in. (%)	Sampling Resist. Core RCDI (%)	Rimac, Cu (tsf)	Pocket Pen. Cu (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Liquid Limit	Plasticity Index	Depth (ft)	Remarks
64	CLAY (A-6(19)): Stiff, gray, dry, low plastic, trace sand; (GLACIAL TILL)	656	SS-20	18 (100)	8-12-18 N = 30	6.6 B	22	39	18			64	
65												65	
66												66	
67												67	
68												68	
69												69	
70			SS-21	0 (0)	9-8-12 N = 20		22					70	
71												71	
72												72	
73												73	
74			SS-22	18 (100)	3-6-8 N = 14	2.9 B	23					74	
75												75	
76												76	
77	Silty LOAM: Stiff, gray, wet, low plastic, with fine sand; (GLACIAL TILL)	644.5										77	
78												78	
79			SS-23	14 (78)	19-17-26 N = 43	0.7 B	17					79	
80	SAND: Dense, gray, wet, fine- to coarse-grained, with gravel; (GLACIAL TILL)	641.7										80	
81	Boring terminated at 80.0'											81	
82												82	
83												83	



SOIL BORING LOG

Log of Boring
GC-05
Sheet 1 of 4

ROUTE:	Federal Aid Urban - 2688	DESCRIPTION:	Wolf Road over I-80
SECTION:	99-SHB-4	DRILLER:	Rubino Engineering, Inc.
COUNTY:	Will	DRILLED BY:	Joe Kenny
STRUCT. NO.:	099-0192	DRILL RIG TYPE:	Geoprobe 7822DT
STATION & OFFSET:	181+26.7, 2.6' LT	DRILLING METHOD:	3-1/4" hollow stem auger
SURFACE ELEV.:	741.6 ft	SAMPLING METHOD:	2" Split Spoon
VERTICAL DATUM:	NAVD83	HAMMER TYPE:	Auto Hammer (140 lb)
LAT/LONG:	41.551993, -87.890078	HAMMER EFFICIENCY:	88.8 %
LOCATION:	NE 1/4, SEC. 6, T35N, R12E, 3rd PM	REMARKS:	

Depth (ft)	Material Description	Elevation (ft) - 741.6	Sample Number	Recovery, in. (%)	Sampling Resist. Core RCDI (%)	Rimac, Cu (tsf)	Pocket Pen. Cu (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Liquid Limit	Plasticity Index	Depth (ft)	Remarks
1	ASPHALT	741.2										1	
1	CONCRETE	740.4										1	
1	CRUSHED STONE	740.0										1	
2	CLAY: Stiff, greenish brown, dry, low plastic, some fine sand; (FILL)	740.0	SS-1	0 (0)	3-2-2 N = 4							2	
3												3	
4			SS-2	13 (72)	2-4-4 N = 8	2.5 B	18					4	
5												5	
6			SS-3	15 (83)	5-5-8 N = 13	3.5 B	21					6	
7												7	
8			SS-4	14 (78)	4-3-4 N = 7	3.8 B	18					8	
9												9	
10			SS-5	16 (89)	6-9-13 N = 22	5.1 B	18					10	
11	CLAY: Stiff, brown, dry, low plastic, some gravel, some fine to coarse sand; (FILL)	730.9										11	
12												12	
13			SS-6A	18 (100)	22-23-8 N = 31	5.5 S	15					13	
14			SS-6B									14	
15	CLAY (A-6(13)): Stiff, brown and gray, dry, low plastic, with fine to coarse sand, trace gravel; (GLACIAL TILL)	727.2										15	
16			SS-7	16 (89)	5-6-9 N = 15	3.9 B	17		36	16		16	
17												17	
18			SS-8	18 (100)	8-9-12 N = 21	5.9 B	16					18	
19												19	
20												20	



SOIL BORING LOG

Log of Boring
GC-05
Sheet 2 of 4

ROUTE:	Federal Aid Urban - 2688	DESCRIPTION:	Wolf Road over I-80
SECTION:	99-SHB-4	DRILLER:	Rubino Engineering, Inc.
COUNTY:	Will	DRILLED BY:	Joe Kenny
STRUCT. NO.:	099-0192	DRILL RIG TYPE:	Geoprobe 7822DT
STATION & OFFSET:	181+26.7, 2.6' LT	DRILLING METHOD:	3-1/4" hollow stem auger
SURFACE ELEV.:	741.6 ft	SAMPLING METHOD:	2" Split Spoon
VERTICAL DATUM:	NAVD83	HAMMER TYPE:	Auto Hammer (140 lb)
LAT/LONG:	41.551993, -87.890078	HAMMER EFFICIENCY:	88.8 %
LOCATION:	NE 1/4, SEC. 6, T35N, R12E, 3rd PM	REMARKS:	

Depth (ft)	Material Description	Elevation (ft) - 741.6	Sample Number	Recovery, in. (%)	Sampling Resist. Core RCDI (%)	Rimac, Cu (tsf)	Pocket Pen. Cu (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Liquid Limit	Plasticity Index	Depth (ft)	Remarks
22	CLAY (A-6(13)): Stiff, brown and gray, dry, low plastic, with fine to coarse sand, trace gravel; (GLACIAL TILL)	729.7	SS-9A	13 (72)	5-6-8 N = 14	8.8 S	16					22	
23	CLAY: Stiff, brown, dry, low plastic, with gravel, with fine to coarse sand; (GLACIAL TILL)	728.7	SS-9B									23	
24	CLAY LOAM: Stiff, brown, dry, low plastic, some fine sand, trace gravel; (GLACIAL TILL)	716	SS-10	3 (17)	4-5-9 N = 14		16					24	
25												25	
26			SS-11	18 (100)	6-7-10 N = 17	5.3 B	18					26	
27												27	
28			SS-12	18 (100)	3-4-7 N = 11	2.9 B	15					28	
29												29	
30												30	
31												31	
32												32	
33												33	
34			SS-13	3 (14)	13-12-15 N = 27	4.2 P	13					34	
35												35	
36												36	
37												37	
38												38	
39			SS-14	18 (100)	7-7-10 N = 17	2.7 B	15					39	
40												40	
41												41	

Entire sheet revised



USER NAME =	kanderson	DESIGNED	KJA	REVISED	4/8/2022	KJA
CHECKED	MG/ZM	REVISIONS	-			
PLOT SCALE =		DRAWN	KC	REVISIONS	-	
PLOT DATE =	4/8/2022	CHECKED	KJA	REVISIONS	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS VI
STRUCTURE NO. 099-0192

SHEET 37 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2020-250-BY	WILL	133	99
CONTRACT NO. 62N20				

ILLINOIS

MODEL: Default
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SOIL BORING LOG

Log of Boring
GC-05
Sheet 3 of 4

ROUTE:	Federal Aid Urban - 2688	DESCRIPTION:	Wolf Road over I-80
SECTION:	99-SHB-4	DRILLER:	Rubino Engineering, Inc.
COUNTY:	Will	DRILLED BY:	Joe Kenny
STRUCT. NO.:	099-0192	LOGGED BY:	Nikki Kurfman (Gonzalez)
STATION & OFFSET:	181+26.7, 2.6' LT	DRILL RIG TYPE:	Geoprobe 7822DT
SURFACE ELEV.:	741.6 ft	DRILLING METHOD:	3-1/4" hollow stem auger
VERTICAL DATUM:	NAVD83	SAMPLING METHOD:	2" Split Spoon
LAT/LONG:	41.551993, -87.890078	HAMMER TYPE:	Auto Hammer (140 lb)
LOCATION:	NE 1/4, SEC. 6, T35N, R12E, 3rd PM	HAMMER EFFICIENCY:	88.8 %
		REMARKS:	

Depth (ft)	Graphic	Material Description	Elevation (ft): 741.6	Sample Number	Recovery, in. (%)	Sampling Resist. Or Core RQD (%)	fines, Cu (pcf)	Pocket Pen. Cu (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Liquid Limit	Plasticity Index	Depth (ft)	Remarks
43		Clay LOAM: Stiff, brown, dry, low plastic, some fine sand, trace gravel; (GLACIAL TILL)											43	
44				SS-15	18 (100)	5-6-10 N = 16	3.5 B		16				44	
45													45	
46													46	
47													47	
48													48	
49													49	
50		SAND: Loose, gray, wet, fine-grained; (GLACIAL TILL)		SS-16	15 (83)	6-8-14 N = 22		2.0 P					50	
51		SILT: Dense, gray, wet, low plastic, some fine sand; (GLACIAL TILL)											51	
52		SAND: Medium dense, gray, wet, fine-to coarse-grained, some gravel; (GLACIAL TILL)											52	
53		Clay LOAM (A-4(3)): Stiff, gray, moist, low plastic, with fine to coarse sand, with gravel; (GLACIAL TILL)											53	
54				SS-17	16 (89)	4-7-9 N = 16	3.0 B		14	24	8		54	
55													55	
56													56	
57													57	
58													58	
59				SS-18	18 (100)	5-7-8 N = 15	1.3 B		14				59	
60													60	
61													61	
62													62	



SOIL BORING LOG

Log of Boring
GC-05
Sheet 4 of 4

ROUTE:	Federal Aid Urban - 2688	DESCRIPTION:	Wolf Road over I-80
SECTION:	99-SHB-4	DRILLER:	Rubino Engineering, Inc.
COUNTY:	Will	DRILLED BY:	Joe Kenny
STRUCT. NO.:	099-0192	LOGGED BY:	Nikki Kurfman (Gonzalez)
STATION & OFFSET:	181+26.7, 2.6' LT	DRILL RIG TYPE:	Geoprobe 7822DT
SURFACE ELEV.:	741.6 ft	DRILLING METHOD:	3-1/4" hollow stem auger
VERTICAL DATUM:	NAVD83	SAMPLING METHOD:	2" Split Spoon
LAT/LONG:	41.551993, -87.890078	HAMMER TYPE:	Auto Hammer (140 lb)
LOCATION:	NE 1/4, SEC. 6, T35N, R12E, 3rd PM	HAMMER EFFICIENCY:	88.8 %
		REMARKS:	

Depth (ft)	Graphic	Material Description	Elevation (ft): 741.6	Sample Number	Recovery, in. (%)	Sampling Resist. Or Core RQD (%)	fines, Cu (pcf)	Pocket Pen. Cu (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Liquid Limit	Plasticity Index	Depth (ft)	Remarks
64		Clay LOAM (A-4(3)): Stiff, gray, moist, low plastic, with fine to coarse sand, with gravel; (GLACIAL TILL)		SS-19	18 (100)	3-4-6 N = 10	1.2 B		15				64	
65													65	
66													66	
67													67	
68													68	
69				SS-20	17 (95)	4-7-12 N = 19	3.5 B		15				69	
70													70	
71													71	
72													72	
73													73	
74				SS-21	16 (89)	6-7-8 N = 15	3.9 B		15				74	
75		CLAY: Medium stiff, gray, wet, low plastic, with fine to coarse sand, some gravel; (GLACIAL TILL)											75	
76		Boring terminated at 75.0'											76	
77													77	
78													78	
79													79	
80													80	
81													81	
82													82	
83													83	

1 Entire sheet revised



USER NAME =	kanderson	DESIGNED	KJA	REVISED	4/8/2022	KJA
		CHECKED	MG/ZM	REVISED	-	
PLOT SCALE =		DRAWN	KC	REVISED	-	
PLOT DATE =	4/8/2022	CHECKED	KJA	REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS VII
STRUCTURE NO. 099-0192

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2020-250-BY	WILL	133	100
CONTRACT NO. 62N20				