GENERAL NOTES:

1. Fasteners shall be ASTM A325 Type I, hot dip galvanized bolts. Bolts 7/8 in. ϕ, holes 15/16 in. ϕ, unless otherwise noted (See special provision for Hot Dip Galvanizing for Structural Steel).
2. Calculated weight of Structural Steel = 1,398,370 pounds (AASHTO M270 Grade 50).
Calculated weight of Structural Steel = 81,790 pounds (AASHTO M270 Grade 36).
3. All structural steel shall be hot dip galvanized. Cost included in Furnishing and Erecting Structural Steel. See special provision for Hot Dip Galvanizing For Structural Steel.
4. Expansion joint plates and attached bars shall be shop painted with the inorganic zinc rich primer.
5. Girders have bearing stiffeners and connection plates as required by design. Additional stiffeners may be added at the Contractor's expense as necessary to prevent distortion of the girders during galvanizing. The Contractor shall coordinate with the fabricator and the galvanizer to determine if additional stiffeners are necessary, and where these should be placed. Any proposed changes shall be submitted to the Engineer for approval prior to making any changes.
6. Temporary stiffener angles shall be bolted to each side of the splice ends of each girder segment to prevent distortion during galvanizing. Temporary stiffener angles shall bolt or fit tight against the top and bottom flanges and shall include spacer tubes to minimize damage to galvanizing during removal. Cost included with "Furnishing and Erecting Structural Steel".
7. No field welding is permitted except as specified in the contract documents.
8. Reinforcement bars designated (E) shall be epoxy coated.
9. Plan dimension 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 work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
10. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
11. Concrete Sealer shall be applied to the designated areas of the Piers, Abutments, and Wingwalls.
12. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
13. For Conduit Attached to Structure quantities and details, see Electrical Plans.
14. The contractor shall exercise extreme caution during construction to make certain that construction activities, live load surcharge and other loads applied to the structures will not have detrimental effects on the adjacent building foundations and the existing siphon and main drain. Any damage during construction shall be repaired by the contractor at his expense and no charge to the department. Driving piles and temporary sheet piling is not allowed.
15. Abandoned 8' diameter CTA Water Tunnel shall be filled prior to the start of drilled shaft construction in a previous contract. The Contractor shall verify with the Engineer that the tunnel has been filled prior to the start of drilled shaft construction. A number of the drilled shaft foundations will be placed through this tunnel. Drilling operations must account for the presence of debris, brick material, CLSM and bedding material in addition to soil and other expected materials to be encountered.
16. Slipforming of parapets is not allowed.
17. For drilled shaft locations where permanent casing is required as shown on the plans, the casing will be paid for under the Permanent Casing pay item. If contractor elects to use permanent casing for ease of construction in locations where permanent casing is not required on the plans, the casing will not be paid for separately and is included in the Drilled Shaft in Soil pay item.
18. Limited groundwater elevation data is available in the boring logs. In addition, groundwater may also be present in deeper granular layers. The groundwater may rise in the shafts to an elevation above the top of granular layers. The Contractor shall consider this information when choosing construction methods. The Contractor will not be compensated for issues related to the groundwater elevation.

STATION 8150+37.65
BUILT 20-- BY
STATE OF ILLINOIS
F.A.U. RT. 1423 SEC. 2014-017B
LOADING HL-93
STR. NO. 016-1707

NAME PLATE
See Std. 515001

INDEX OF SHEETS

CURVE DATA

(℄ Ramp SW)	(℄ SB Taylor Exit)	(℄ Ramp SE)	(℄ I-90/94 NB)	(℄ NB C-D Road)
P-CIR-SW-3	P-TAY-SX-1	P-CIR-SE-1	P-KDR-NB-4	P-NCD-NX-5
P.I. Sta. = 1322+16.98	P.I. Sta. = 6404+16.60	P.I. Sta. = 1401+94.82	P.I. Sta. = 6143+87.92	P.I. Sta. = 6336+57.47
Δ = 83°35'08" (RT)	Δ = 43°59'21" (RT)	Δ = 45°11'30" (RT)	Δ = 12°26'15" (RT)	Δ = 35°13'41" (RT)
D = 10°03'07"	D = 30°58'14"	D = 30°58'14"	D = 2°22'10"	D = 4°12'24"
R = 570.00'	R = 185.00'	R = 185.00'	R = 2,418.00'	R = 1,362.00'
T = 509.51'	T = 74.72'	T = 76.99'	T = 263.48'	T = 432.42'
L = 831.54'	L = 142.03'	L = 145.92'	L = 524.89'	L = 837.42'
E = 194.53'	E = 14.52'	E = 15.38'	E = 14.31'	E = 67.00'
e = 5.40%	e = 6.00%	e = 6.00%	e = 5.00%	e = 4.20%
T.R. = NA	T.R. = NA	T.R. = NA	T.R. = 80'	T.R. = 41'
S.E. Run = 101'	S.E. Run = 91'	S.E. Run = 91'	S.E. Run = 268'	S.E. Run = 87'
P.C. Sta. = 1317+07.47	P.C. Sta. = 6403+41.87	P.C. Sta. = 1401+17.83	P.C. Sta. = 6141+24.44	P.C. Sta. = 6332+25.05
P.T. Sta. = 1325+39.01	P.T. Sta. = 6404+83.91	P.T. Sta. = 1402+63.75	P.T. Sta. = 6146+49.33	P.T. Sta. = 6340+62.48

CURVE DATA

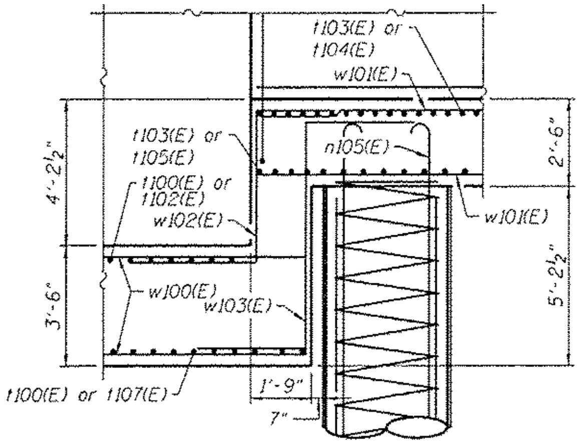
(℄ Ramp WN)		(℄ Ramp EN)	(℄ EN Slip Ramp)
P-CIR-WN-2	P-CIR-WN-3	P-CIR-EN-3	P-ENS-NX-2
P.I. Sta. = 1105+88.67	P.I. Sta. = 1108+60.30	P.I. Sta. = 1621+50.17	P.I. Sta. = 6504+42.53
Δ = 69°00'44" (RT)	Δ = 1°51'47" (RT)	Δ = 28°56'55" (RT)	Δ = 11°16'16" (RT)
D = 12°43'57"	D = 2°23'29"	D = 4°48'53"	D = 4°13'09"
R = 450.00'	R = 2,396.00'	R = 1,190.00'	R = 1,358.00'
T = 309.35'	T = 38.96'	T = 307.19'	T = 134.00'
L = 542.02'	L = 77.91'	L = 601.25'	L = 267.14'
E = 96.07'	E = 0.32'	E = 39.01'	E = 6.60'
e = 5.20%	e = 5.00%	e = 4.40%	e = 4.20%
T.R. = NA	T.R. = NA	T.R. = NA	T.R. = NA
S.E. Run = 46'	S.E. Run = NA	S.E. Run = 50'	S.E. Run = 61'
P.C. Sta. = 1102+79.32	P.C. Sta. = 1108+21.34	P.C. Sta. = 1618+42.98	P.C. Sta. = 6503+08.53
P.T. Sta. = 1108+21.34	P.T. Sta. = 1108+99.25	P.T. Sta. = 1624+44.23	P.T. Sta. = 6505+75.67

For information only. Part of future contract.

TOTAL BILL OF MATERIAL

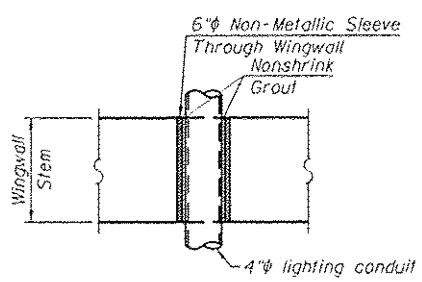
Item	Unit	Super	Sub	Total Quantity
Porous Granular Backfill	Cu. Yd.		280	280
Removal Of Existing Structures	Each			1
Protective Shield	Sq. Yd.	3,539		3,539
Structure Excavation	Cu. Yd.		3,163	3,163
Concrete Structures	Cu. Yd.		1,357.0	1,357.0
Rubbed Finish	Sq. Ft.		3,639	3,639
Concrete Superstructure	Cu. Yd.	1,285.7		1,285.7
Bridge Deck Grooving	Sq. Yd.	2,124		2,124
Form Liner Textured Surface	Sq. Ft.		1,633	1,633
Protective Coat	Sq. Yd.	4,009		4,009
Concrete Superstructure (Approach Slab)	Cu. Yd.	164.5		164.5
Furnishing And Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	13,092		13,092
Reinforcement Bars	Pound		429,660	429,660
Reinforcement Bars, Epoxy Coated	Pound	299,840	193,210	493,050
Bar Splicers	Each		135	135
Name Plates	Each		1	1
Permanent Casing	Foot		1,563	1,563
Drilled Shaft In Soil	Cu. Yd.		1,832.2	1,832.2
Drilled Shaft In Rock	Cu. Yd.		43.9	43.9
Preformed Joint Strip Seal	Foot	137		137
Elastomeric Bearing Assembly, Type II	Each	36		36
Anchor Bolts, 5/8"	Each	24		24
Anchor Bolts, 3/4"	Each	48		48
Anchor Bolts, 1"	Each	24		24
Anchor Bolts, 1 1/4"	Each	24		24
Temporary Soil Retention System	Sq. Ft.		8,636	8,636
Concrete Sealer	Sq. Ft.		11,411	11,411
Geocomposite Wall Drain	Sq. Yd.		502	502
Crosshole Sonic Logging Access Ducts	Foot		5,309	5,309
Crosshole Sonic Logging Testing	Each		5	5
Decorative Railing (Parapet Mounted)	Foot	956		956
Granular Backfill For Structures	Cu. Yd.		444	444
Drainage Scuppers, DS-11	Each	12		12
Drainage System	L. Sum	1		1
Pipe Underdrains For Structures 4"	Foot		205	205

⚠1 Revised Sheet 6-5-17



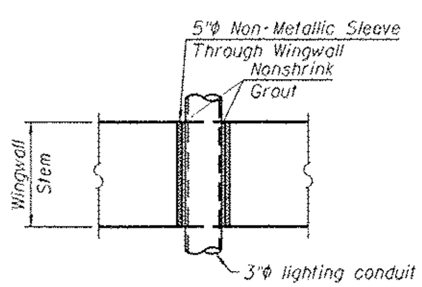
DETAIL D

Minimum Bar Laps	
Bar	Lap
#5(E)	3'-3"
#6(E)	3'-10"
#7(E)	5'-2"
#9	5'-9"
#6 spiral	3'-0"



CONDUIT SLEEVE THRU WINGWALL

Furnishing and installing Non-Metallic Sleeve and Grout is included in the cost of Concrete Structures.



CONDUIT SLEEVE THRU ABUTMENT BACKWALL

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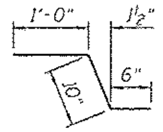

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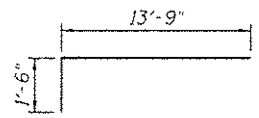

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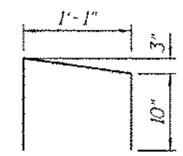

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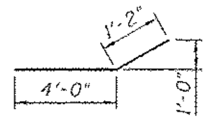

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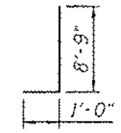

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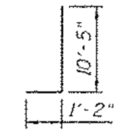

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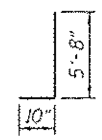

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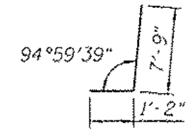

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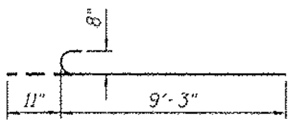

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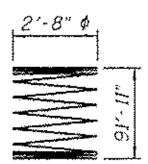

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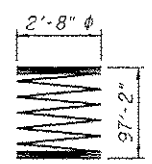
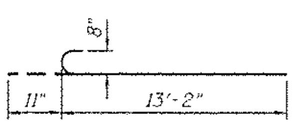


BAR sp101



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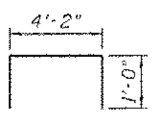

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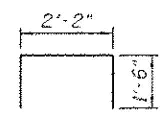

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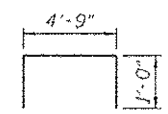

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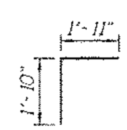

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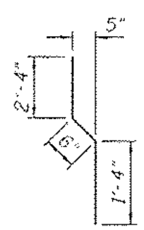

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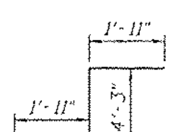

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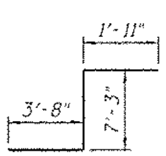
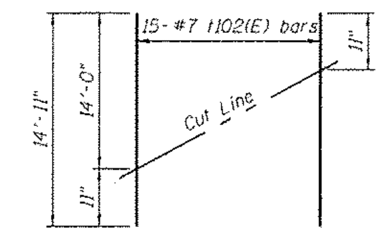


BAR w103(E)

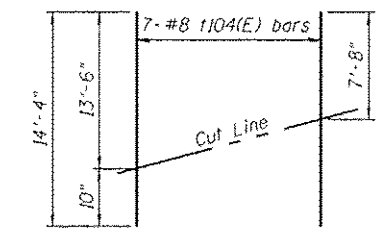
BILL OF MATERIAL

Item	Unit	Total
Porous Granular Backfill	Cu. Yd.	117
Structure Excavation	Cu. Yd.	1028
Concrete Structures	Cu. Yd.	473.8
Concrete Superstructure	Cu. Yd.	8.3
Reinforcement Bars	Pound	127,710
Reinforcement Bars, Epoxy Coated	Pound	59,290
Permanent Casing	Foot	644
Drilled Shaft in Soil	Cu. Yd.	581.7
Drilled Shaft in Rock	Cu. Yd.	14.1
Concrete Sealer	Sq. Ft.	2207
Geocomposite Wall Drain	Sq. Yd.	236
Crosshole Sonic Logging Access Ducts	Foot	1,686
Crosshole Sonic Logging Testing	Each	1
Granular Backfill for Structures	Cu. Yd.	223



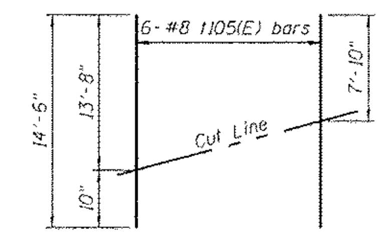
FIELD CUTTING DIAGRAM

Order t102(E) bars full length. Cut as shown and use remainder of bars in opposite end of footing.



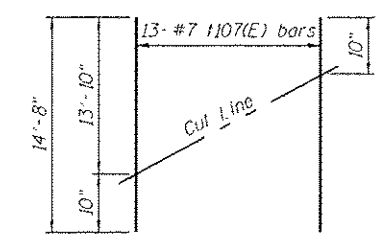
FIELD CUTTING DIAGRAM

Order t104(E) bars full length.



FIELD CUTTING DIAGRAM

Order t105(E) bars full length.



FIELD CUTTING DIAGRAM

Order t107(E) bars full length. Cut as shown and use remainder of bars in opposite end of footing.

	Bar	No.	Size	Length	Shape
	b107(E)	22	#5	1'-4"	straight
	b108(E)	4	#5	2'-2"	straight
	c103(E)	6	#5	2'-4"	bent
	c104(E)	6	#5	15'-3"	bent
	d100(E)	40	#5	3'-0"	bent
	d101(E)	86	#5	5'-4"	straight
	e100(E)	6	#5	29'-8"	straight
	e101(E)	6	#5	30'-3"	straight
	h100(E)	10	#6	35'-9"	straight
	h101(E)	29	#5	29'-8"	straight
	h102(E)	20	#5	35'-6"	straight
	h103(E)	6	#5	3'-10"	straight
	h104(E)	6	#5	5'-2"	bent
	h105(E)	8	#5	3'-6"	straight
	h106(E)	12	#5	4'-0"	straight
	h107(E)	16	#5	2'-10"	straight
	h108(E)	29	#5	30'-3"	straight
	h109(E)	16	#5	2'-6"	straight
	n100(E)	75	#6	9'-6"	bent
	n101(E)	136	#7	11'-7"	bent
	n102(E)	168	#8	10'-3"	straight
	n103(E)	40	#5	6'-6"	bent
	n104(E)	46	#7	8'-11"	bent
	n105(E)	84	#8	10'-2"	hooked
	p100(E)	88	#6	35'-9"	straight
	p101(E)	8	#6	24'-9"	straight
	p102(E)	4	#6	6'-1"	straight
*	sp100	12	#6	91'-11"	spiral
*	sp101	6	#6	97'-2"	spiral
	t100(E)	223	#7	14'-8"	straight
	t101(E)	4	#7	16'-8"	straight
	t102(E)	15	#7	14'-11"	straight
	t103(E)	130	#8	14'-1"	hooked
	t104(E)	7	#8	14'-4"	straight
	t105(E)	6	#8	14'-6"	straight
	t106(E)	2	#8	14'-4"	straight
	t107(E)	13	#7	14'-8"	straight
	u100(E)	69	#6	6'-2"	bent
	u101(E)	52	#5	5'-2"	bent
	u102(E)	2	#6	6'-9"	bent
	v100(E)	69	#5	3'-9"	bent
	v101(E)	69	#5	6'-9"	straight
	v102(E)	69	#5	5'-4"	straight
	v103(E)	69	#5	4'-2"	bent
	v104(E)	136	#6	15'-6"	straight
	v105(E)	75	#6	17'-5"	straight
	v106(E)	40	#5	20'-10"	straight
	v107(E)	46	#6	19'-5"	straight
	v108	336	#9	48'-10"	straight
	v109(E)	8	#5	6'-4"	straight
	v110(E)	12	#5	2'-6"	straight
	v111	168	#9	51'-6"	straight
	w100(E)	124	#7	37'-6"	straight
	w101(E)	66	#7	35'-3"	straight
	w102(E)	14	#5	8'-1"	bent
	w103(E)	14	#5	12'-10"	bent

Bars indicated thus, 1x15-#5 etc., indicates 1 line of bars with 15 lengths per line.

* Length is height of spiral.

USER NAME = wjcolletti	DESIGNED - JRM	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WEST ABUTMENT DETAILS 2 STRUCTURE NO. 016-1707
PLOT SCALE = 0:2.0000 ':' / in.	CHECKED - MDS	REVISED		
PLOT DATE = 5/11/2017	DRAWN - JNP	REVISED		SHEET NO. S-38 OF S-61 SHEETS
	CHECKED - JRM	REVISED		

TranSystems

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	245
		CONTRACT NO. 60X99		
		ILLINOIS FED. AID PROJECT		

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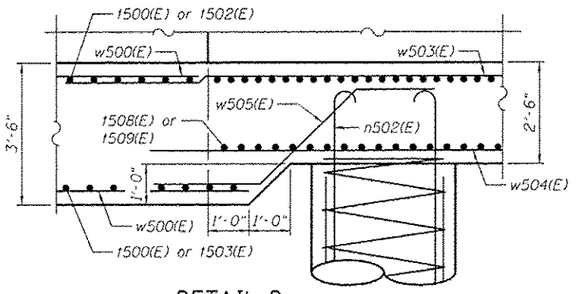
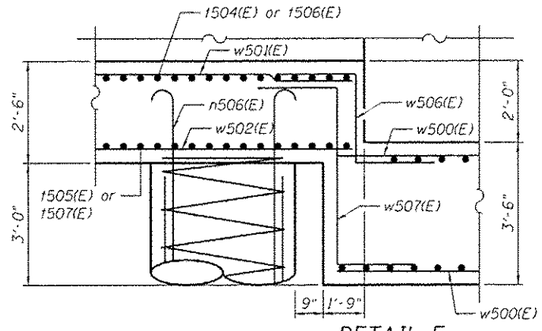
⚠ Revised Sheet 6-5-17

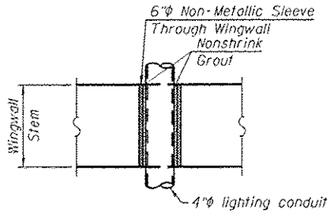


DETAIL D



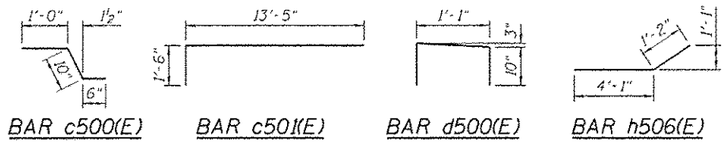
DETAIL E

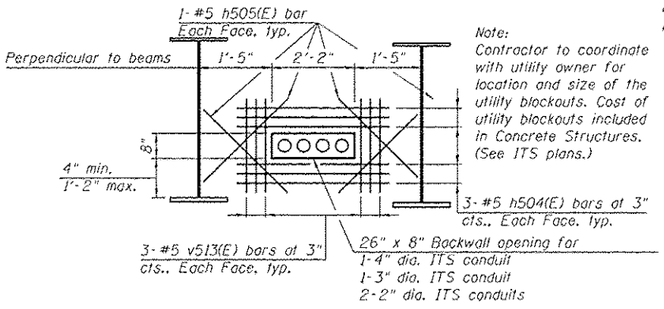
Minimum Bar Laps	
Bar	Lap
#5(E)	3'-3"
#6(E)	3'-10"
#7(E)	5'-2"
#8(E)	6'-9"
#9(E)	8'-7"
#9	5'-9"
#10	7'-3"
#6 spiral	3'-0"



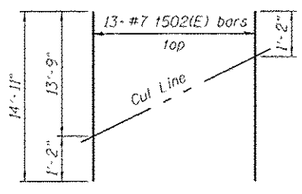
CONDUIT SLEEVE THRU WINGWALL

Furnishing and installing Non-Metallic Sleeve and Grout is included in the cost of Concrete Structures.



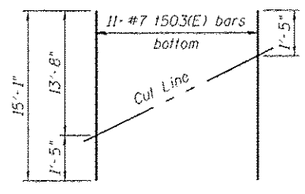


DETAIL H



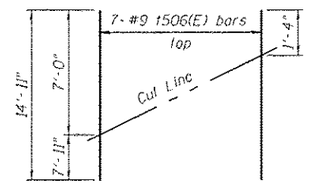
FIELD CUTTING DIAGRAM

Order t502(E) bars full length. Cut as shown and use remainder of bars in opposite end of footing.



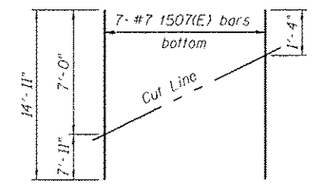
FIELD CUTTING DIAGRAM

Order t503(E) bars full length. Cut as shown and use remainder of bars in opposite end of footing.



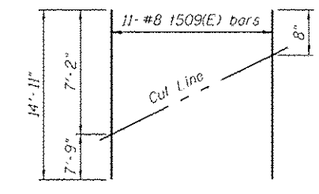
FIELD CUTTING DIAGRAM

Order t506(E) bars full length.



FIELD CUTTING DIAGRAM

Order t507(E) bars full length.



FIELD CUTTING DIAGRAM

Order t509(E) bars full length.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
w500(E)	144	#8	37'-11"	
w501(E)	15	#5	23'-10"	
w502(E)	35	#8	23'-10"	
w503(E)	16	#5	22'-4"	
w504(E)	27	#7	23'-0"	
w505(E)	16	#5	9'-2"	
w506(E)	15	#5	5'-10"	
w507(E)	15	#5	10'-7"	
Porous Granular Backfill		Cu. Yd.	163	
Structure Excavation		Cu. Yd.	1981	
Concrete Structures		Cu. Yd.	500.3	
Concrete Superstructure		Cu. Yd.	7.4	
Reinforcement Bars		Pound	143,440	
Reinforcement Bars, Epoxy Coated		Pound	69,810	
Permanent Casing		Foot	630	
Drilled Shaft in Soil		Cu. Yd.	634.8	
Drilled Shaft in Rock		Cu. Yd.	15.7	
Concrete Sealer		Sq. Ft.	2471	
Geocomposite Wall Drain		Sq. Yd.	266	
Crosshole Sonic Logging Access Ducts		Foot	1,841	
Crosshole Sonic Logging Testing		Each	1	
Granular Backfill for Structures		Cu. Yd.	221	

Bars indicated thus, 1x15-#5 etc., indicates 1 line of bars with 15 lengths per line.

* Length is height of spiral.

Bar	No.	Size	Length	Shape
b500(E)	22	#5	1'-4"	
b501(E)	4	#5	2'-2"	
c500(E)	6	#5	2'-4"	
c501(E)	6	#5	14'-11"	
d500(E)	40	#5	3'-0"	
d501(E)	80	#5	5'-4"	
e500(E)	12	#5	19'-8"	
e501(E)	12	#5	17'-8"	
h500(E)	33	#5	19'-8"	
h501(E)	32	#5	17'-8"	
h502(E)	10	#6	35'-0"	
h503(E)	20	#5	34'-9"	
h504(E)	24	#5	4'-0"	
h505(E)	16	#5	3'-6"	
h506(E)	6	#5	5'-3"	
h507(E)	6	#5	4'-2"	
h508(E)	16	#5	2'-10"	
h509(E)	8	#5	2'-6"	
n500(E)	73	#6	9'-2"	
n501(E)	133	#7	11'-7"	
n502(E)	56	#8	10'-2"	
n503(E)	53	#5	6'-6"	
n504(E)	37	#7	7'-7"	
n505(E)	168	#8	10'-3"	
n506(E)	52	#9	12'-4"	
n507(E)	49	#7	7'-5"	
p500(E)	92	#6	35'-0"	
p501(E)	4	#6	40'-9"	
p502(E)	4	#6	11'-4"	
* sp500	4	#6	94'-3"	
* sp501	4	#6	92'-3"	
* sp502	12	#6	91'-3"	
t500(E)	221	#7	14'-8"	
t501(E)	4	#7	16'-3"	
t502(E)	13	#7	14'-11"	
t503(E)	11	#7	15'-1"	
t504(E)	43	#9	15'-2"	
t505(E)	43	#7	14'-9"	
t506(E)	7	#9	14'-11"	
t507(E)	7	#7	14'-11"	
t508(E)	78	#8	14'-8"	
t509(E)	22	#8	14'-11"	
t510(E)	2	#8	16'-6"	
t511(E)	1	#9	15'-3"	
t512(E)	1	#7	15'-3"	
u500(E)	67	#6	6'-2"	
u501(E)	50	#5	4'-10"	
u502(E)	2	#6	6'-9"	
v500(E)	66	#5	3'-9"	
v501(E)	67	#5	6'-10"	
v502(E)	67	#5	5'-7"	
v503(E)	67	#5	3'-10"	
v504(E)	133	#6	15'-2"	
v505(E)	73	#6	17'-5"	
v506(E)	49	#6	23'-10"	
v507(E)	25	#5	22'-9"	
v508(E)	37	#6	22'-8"	
v509	448	#9	48'-10"	
v510	104	#10	50'-7"	
v511(E)	5	#5	6'-6"	
v512(E)	3	#5	6'-5"	
v513(E)	24	#5	2'-6"	
v514(E)	28	#5	23'-9"	

7:26:41 AM
016-1707-60X99-SO42-Abutment_EastDetails2.dgn

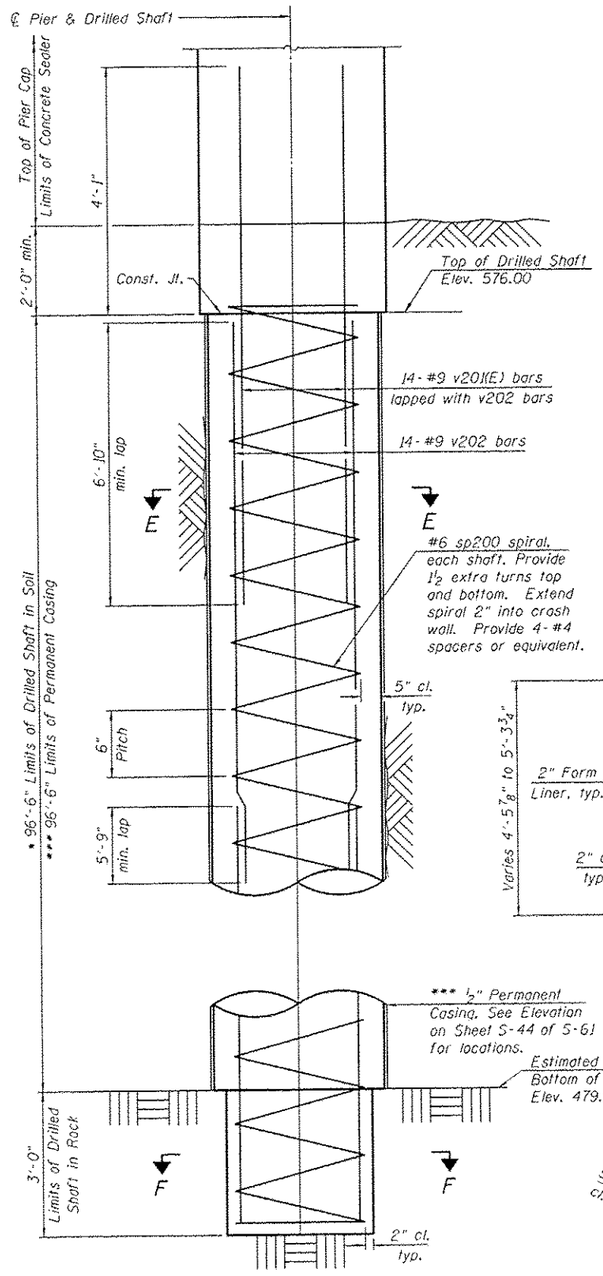
USER NAME = wjcolletti	DESIGNED - JRM	REVISED	
	CHECKED - MDS	REVISED	
PLOT SCALE = 0:2 '/" / in.	DRAWN - JNP	REVISED	
PLOT DATE = 5/11/2017	CHECKED - JRM	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

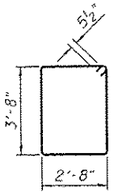
EAST ABUTMENT DETAILS 2
STRUCTURE NO. 016-1707
SHEET NO. S-42 OF S-61 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	249
		CONTRACT NO. 60X99		
		ILLINOIS FED. AID PROJECT		

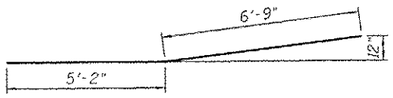
⚠ Revised Sheet 6-5-17



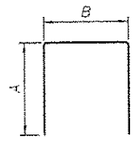
DRILLED SHAFT ELEVATION



BAR s201(E)

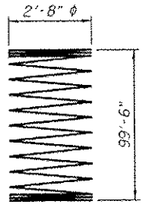


BAR p202(E)

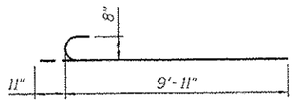


BARS s200(E), s202(E), s203(E) u200(E) through u204(E)

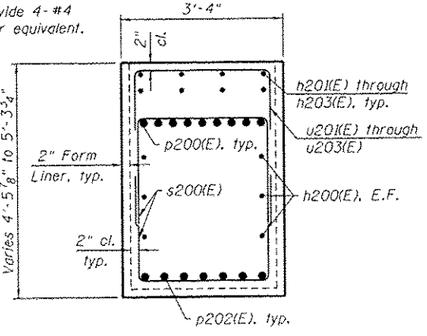
Bar	A	B
s200(E)	3'-3"	2'-8"
s202(E)	3'-0"	2'-8"
s203(E)	5'-5"	3'-6"
u200(E)	3'-10"	2'-8"
u201(E)	1'-0"	2'-8"
u202(E)	1'-5"	2'-8"
u203(E)	1'-10"	2'-8"
u204(E)	3'-10"	3'-6"



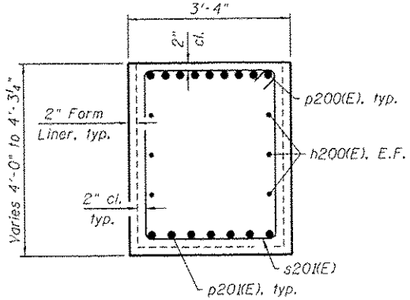
BAR sp200



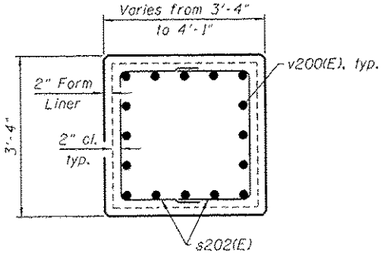
BAR v200(E)



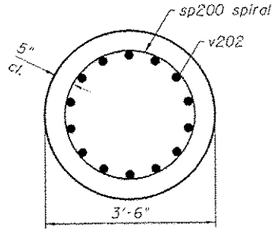
SECTION B-B



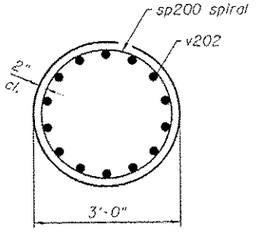
SECTION C-C



SECTION D-D



SECTION E-E



SECTION F-F

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h200(E)	12	#5	35'-6"	
h201(E)	4	#5	20'-3"	
h202(E)	4	#5	33'-10"	
h203(E)	4	#5	5'-6"	
h204(E)	14	#7	55'-0"	
h205(E)	30	#6	55'-0"	
p200(E)	18	#8	37'-3"	
p201(E)	7	#7	53'-9"	
p202(E)	14	#7	11'-11"	
s200(E)	36	#5	9'-2"	
s201(E)	75	#5	13'-7"	
s202(E)	48	#5	8'-8"	
s203(E)	112	#5	14'-4"	
sp200	6	#6	99'-6"	
u200(E)	12	#6	10'-4"	
u201(E)	18	#5	4'-8"	
u202(E)	29	#5	5'-6"	
u203(E)	7	#5	6'-4"	
u204(E)	34	#6	11'-2"	
v200(E)	64	#8	10'-10"	
v201(E)	84	#9	11'-1"	
v202	168	#9	52'-6"	
Structure Excavation			Cu. Yd.	53
Concrete Structures			Cu. Yd.	114.8
Reinforcement Bars			Pound	44,910
Reinforcement Bars, Epoxy Coated			Pound	17,240
Permanent Casing			Foot	97
Drilled Shaft in Soil			Cu. Yd.	206.4
Drilled Shaft in Rock			Cu. Yd.	4.7
Concrete Sealer			Sq. Ft.	2,241
Crosshole Sonic Logging Access Ducts			Foot	597
Crosshole Sonic Logging Testing			Each	1

Bars indicated thus 1x15 etc., indicates 1 line of bars with 15 lengths per line.

Notes:

Apply concrete sealer to all exposed concrete surfaces of the pier.

* The quantities and reinforcement detailing are based on the top of shaft and the estimated top of rock elevations shown and may change based on the actual top of rock encountered at each shaft and the final top of shaft elevation.

** Length is height of spiral.

*** Contractor may need to increase the casing thickness to withstand the installation process. The Estimated Top of Rock/Bottom of Permanent Casing Elevation is shown. The limits of casing shall be adjusted as necessary, and as approved, such that the actual installed casing length extends to the as-encountered top of rock at each shaft. See Article 516.06(d) of the Standard Specifications.

When splicing spiral reinforcement is necessary, the spirals shall be provided with 11#2" extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4, or shall both terminate in 135° standard hook.

3:26:55 PM
0161707-60X99-SO45-Pier 1 Details

TranSystems

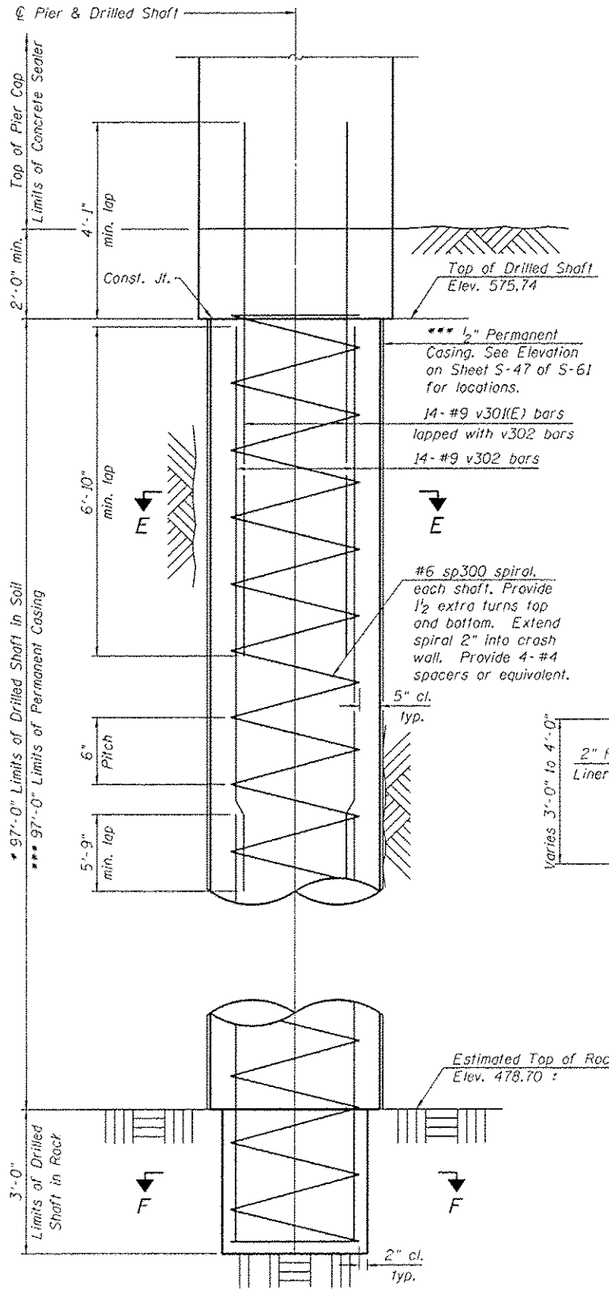
USER NAME = wjcolletti	DESIGNED - TLR	REVISED
	CHECKED - JRM	REVISED
PLOT SCALE = 3:0 '1" / in.	DRAWN - TLR	REVISED
PLOT DATE = 5/11/2017	CHECKED - JRM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

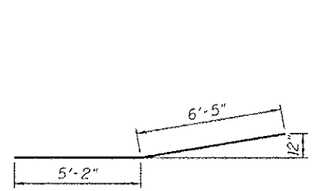
PIER 1 DETAILS
STRUCTURE NO. 016-1707
SHEET NO. S-45 OF S-61 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	252
		CONTRACT NO. 60X99		
	ILLINOIS FED. AID PROJECT			

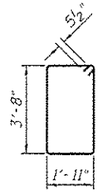
Revised Sheet 6-5-17



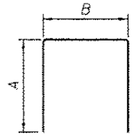
DRILLED SHAFT ELEVATION



BAR p302(E)

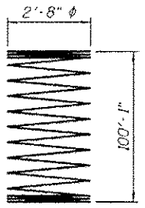


BAR s301(E)

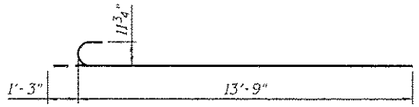


BARS s300(E), s302(E), s3403(E) u300(E), u301(E)

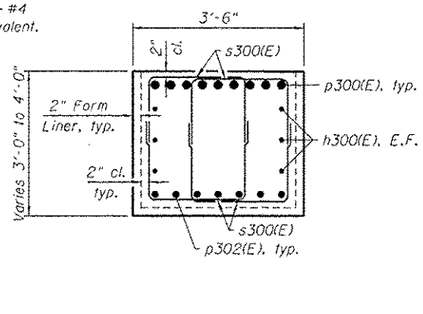
Bar	A	B
s300(E)	3'-3"	2'-0"
s302(E)	3'-3"	2'-10"
s303(E)	6'-11"	4'-0"
u300(E)	3'-3"	2'-10"
u301(E)	3'-10"	4'-0"



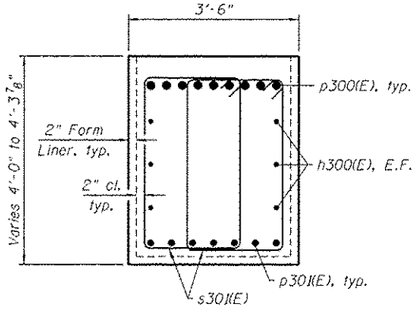
BAR sp300



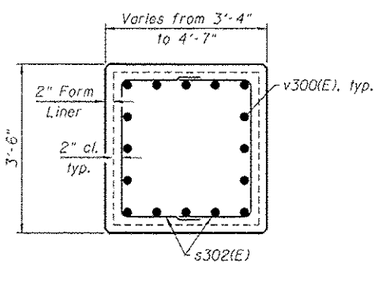
BAR v300(E)



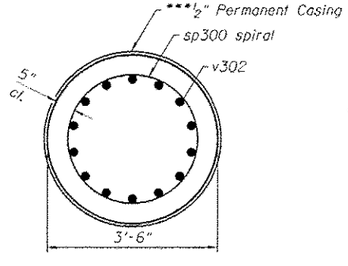
SECTION B-B



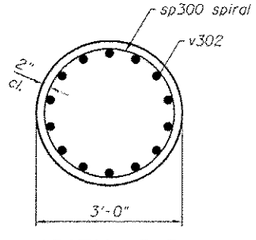
SECTION C-C



SECTION D-D



SECTION E-E



SECTION F-F

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h300(E)	6	#5	59'-4"	
h301(E)	13	#8	47'-0"	
h302(E)	38	#6	47'-0"	
p300(E)	9	#9	59'-6"	
p301(E)	7	#7	46'-4"	
p302(E)	14	#7	11'-7"	
s300(E)	48	#5	8'-6"	
s301(E)	134	#5	12'-1"	
s302(E)	72	#5	9'-4"	
s303(E)	106	#6	17'-10"	
** sp300	6	#6	100'-1"	
u300(E)	10	#5	9'-4"	
u301(E)	38	#6	11'-8"	
v300(E)	64	#9	15'-0"	
v301(E)	152	#9	11'-1"	
v302	304	#9	52'-9"	

Structure Excavation	Cu. Yd.	50
Concrete Structures	Cu. Yd.	119.2
Reinforcement Bars	Pound	69,600
Reinforcement Bars, Epoxy Coated	Pound	22,910
Permanent Casing	Foot	97
Drilled Shaft in Soil	Cu. Yd.	207.4
Drilled Shaft in Rock	Cu. Yd.	4.7
Concrete Sealer	Sq. Ft.	2,298
Crosshole Sonic Logging Access Ducts	Foot	600
Crosshole Sonice Logging Testing	Each	1

Bars indicated thus 1x15 etc., indicates 1 line of bars with 15 lengths per line.

Notes:

Apply concrete sealer to all exposed concrete surfaces of the pier.

* The quantities and reinforcement detailing are based on the top of shaft and the estimated top of rock elevations shown and may change based on the actual top of rock encountered at each shaft and the final top of shaft elevation.

** Length is height of spiral.

*** Contractor may need to increase the casing thickness to withstand the installation process. The Estimated Top of Rock/Bottom of Permanent Casing Elevation is shown. The limits of casing shall be adjusted as necessary, and as approved, such that the actual installed casing length extends to the as-encountered top of rock at each shaft. See Article 516.06(d) of the Standard Specifications.

When splicing spiral reinforcement is necessary, the spirals shall be provided with 11#2" extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4, or shall both terminate in 130° standard hook.

7:27:05 AM
0161707-60x99-S048-Pier 2 Details

TranSystems

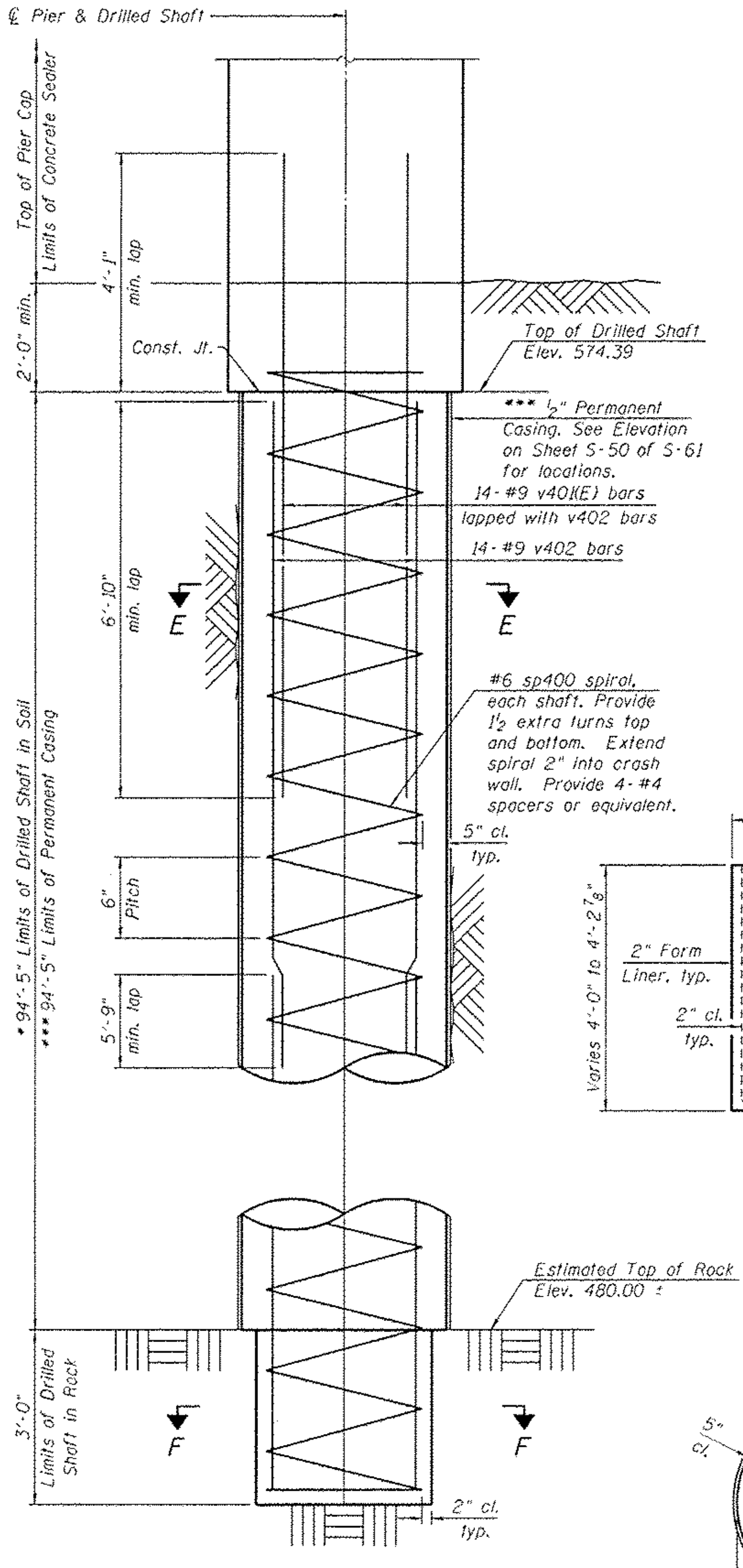
USER NAME = wjcalletti	DESIGNED - TLR	REVISED	
	CHECKED - JRM	REVISED	
PLOT SCALE = 3.0 '/ In.	DRAWN - TLR	REVISED	
PLOT DATE = 5/11/2017	CHECKED - JRM	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

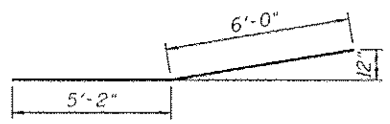
PIER 2 DETAILS
STRUCTURE NO. 016-1707
SHEET NO. S-48 OF S-61 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	255
		CONTRACT NO. 60X99		
		ILLINOIS FED. AID PROJECT		

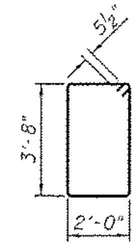
1 Revised Sheet 6-5-17



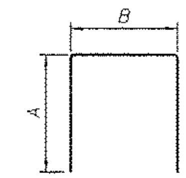
DRILLED SHAFT ELEVATION



BAR p402(E)

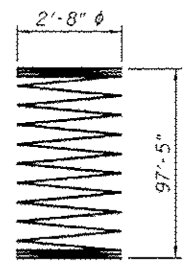


BAR s401(E)

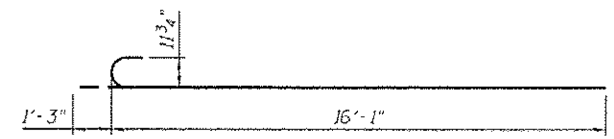


BARS s400(E), s402(E), s403(E) u400(E), u401(E)

Bar	A	B
s400(E)	3'-3"	2'-0"
s402(E)	3'-3"	2'-10"
s403(E)	5'-8"	3'-8"
u400(E)	3'-3"	2'-10"
u401(E)	3'-10"	3'-8"



BAR sp400

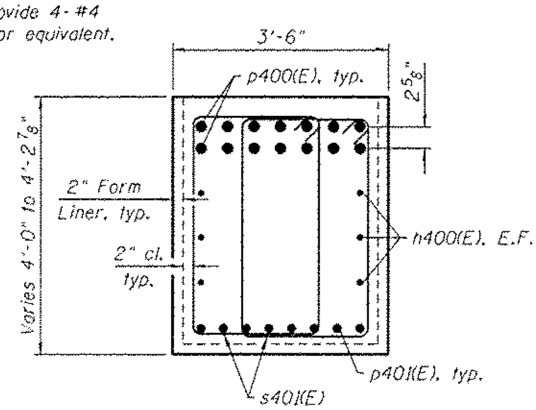


BAR v400(E)

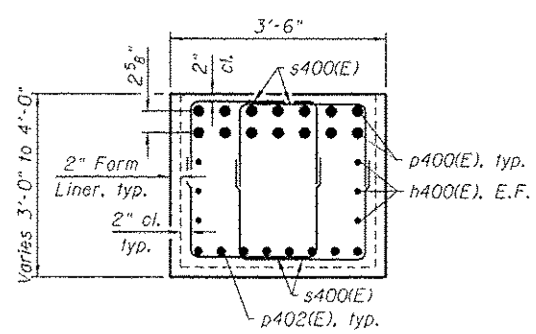
BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
	h400(E)	6	#5	59'-4"	——
	h401(E)	18	#8	47'-0"	——
	h402(E)	28	#6	47'-0"	——
	p400(E)	14	#9	59'-6"	——
	p401(E)	8	#7	47'-8"	——
	p402(E)	16	#7	12'-9"	——
	s400(E)	72	#5	8'-6"	⊓
	s401(E)	152	#5	12'-3"	◻
	s402(E)	88	#5	9'-4"	⊓
	s403(E)	190	#6	15'-0"	⊓
**	sp400	6	#6	97'-5"	
	u400(E)	12	#5	9'-4"	⊓
	u401(E)	32	#6	11'-4"	⊓
	v400(E)	64	#9	17'-4"	⊂——
	v401(E)	84	#9	11'-1"	——
	v402	168	#9	51'-5"	——
	Structure Excavation			Cu. Yd.	51
	Concrete Structures			Cu. Yd.	107.7
	Reinforcement Bars			Pound	44,000
	Reinforcement Bars, Epoxy Coated			Pound	23,960
	Permanent Casing			Foot	95
	Drilled Shaft in Soil			Cu. Yd.	201.9
	Drilled Shaft in Rock			Cu. Yd.	4.7
	Concrete Sealer			Sq. Ft.	2,194
	Crosshole Sonic Logging Access Ducts			Foot	585
	Crosshole Sonic Logging Testing			Each	1

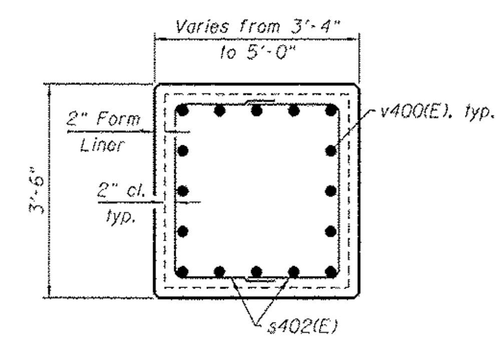
Bars indicated thus 1x15 etc., indicates 1 line of bars with 15 lengths per line.



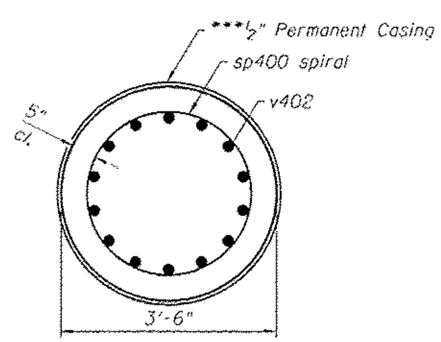
SECTION B-B



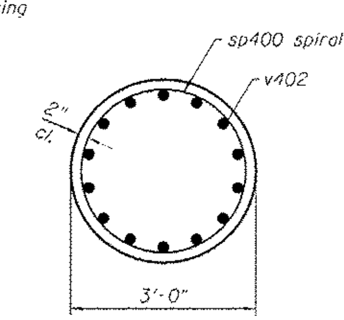
SECTION C-C



SECTION D-D



SECTION E-E



SECTION F-F

Notes:

Apply concrete sealer to all exposed concrete surfaces of the pier.

* The quantities and reinforcement detailing are based on the top of shaft and the estimated top of rock elevations shown and may change based on the actual top of rock encountered at each shaft and the final top of shaft elevation.

** Length is height of spiral.

*** Contractor may need to increase the casing thickness to withstand the installation process. The Estimated Top of Rock/Bottom of Permanent Casing Elevation is shown. The limits of casing shall be adjusted as necessary, and as approved, such that the actual installed casing length extends to the as-encountered top of rock at each shaft. See Article 516.06(d) of the Standard Specifications.

When splicing spiral reinforcement is necessary, the spirals shall be provided with 1½ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4, or shall both terminate in 135° standard hook.

TranSystems	USER NAME = wjcolletti	DESIGNED - TLR	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - JRM	REVISED	
	PLOT SCALE = 3:0 ½" / in.	DRAWN - TLR	REVISED	
	PLOT DATE = 5/11/2017	CHECKED - JRM	REVISED	

PIER 3 DETAILS
STRUCTURE NO. 016-1707
SHEET NO. S-51 OF S-61 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	258
		CONTRACT NO. 60X99		
	ILLINOIS FED. AID PROJECT			

7:27:11 AM
016170I-60X99-S051-Pier 3.Details

⚠ Revised Sheet 6-5-17

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. The Contractor shall exercise extreme caution during construction to make certain that construction activities, live load surcharge and other loads applied to the structures will not have detrimental effects on the adjacent building and monument foundations. Driving piles and temporary sheet piling is not allowed.
3. Drilled shaft construction above existing grade shall not be paid separately but shall be included with Drilled Shaft in Soil.
4. Slipforming of parapets is not allowed.
5. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
6. The Contractor shall field verify locations of existing underground utilities. The Contractor shall take precautions to protect existing utilities during construction of the wall. Any damage to the existing utilities shall be the responsibility of the Contractor.
7. Concrete for the Drilled Shafts shall be in accordance with Section 516 of Standard Specifications and shall have the minimum compressive strength of 7,000 psi at 14 days.
8. Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths per line.
9. Wall to be built along straight chords between construction and expansion joints.
10. Concrete Sealer shall be applied to the exposed top, front, and back faces of the parapet, and to the exposed front faces of cap and fascia panels.
11. Limited groundwater elevation data is available in the boring logs. In addition, groundwater may also be present in deeper granular layers. The groundwater may rise in the shafts to an elevation above the top of granular layers. The Contractor shall consider this information when choosing construction methods. The Contractor will not be compensated for issues related to the groundwater elevation.
12. Foundation Construction at Existing Obstructions applies to Shafts 6 through 13 only.

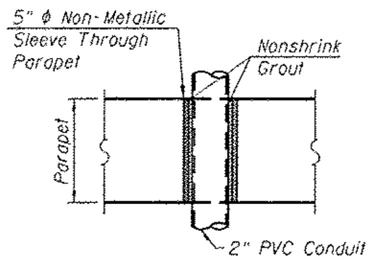
LEGEND:

B.F. - denotes Back Face.
E.F. - denotes Each Face.
F.F. - denotes Front Face.
SS - denotes Stainless Steel.

STATION 1319+75.65 TO 1321+53.10
BUILT 20__ BY
STATE OF ILLINOIS
F.A.I. RT. 90/94 SEC. 2014-017B
LOADING HL-93
STR. NO. 016-1808

NAME PLATE

See Std. 515001



DETAIL A
SLEEVE THRU PARAPET

Furnishing and installing Non-Metallic Sleeve and Grout is included in the cost of Concrete Superstructure.
See Lighting Plans for additional details.

INDEX OF SHEETS

TABLE 1 - WALL ELEVATIONS

Station	Offset	Elevation A	Elevation B	Elevation C	Elevation D	Elevation E	Elevation F	Elevation G	Elevation H
1319+75.65	14'-11 1/8"	574.68	578.39	572.68	582.21	596.03	589.37	593.37	599.78
1320+02.21	15'-10 3/4"	574.66	578.46	572.66	577.86	595.21	589.37	593.37	599.72
1320+33.07	17'-5 1/8"	574.53	578.49	572.53	576.91	594.99	589.37	593.37	599.65
1320+64.00	19'-4 1/2"	574.30	578.46	572.30	574.41	594.65	589.37	593.37	599.57
1320+95.03	21'-8 3/4"	574.02	578.43	572.02	574.29	594.77	589.37	593.37	599.50
1321+26.16	24'-6"	573.71	578.41	571.71	575.05	594.86	589.37	593.37	599.43
1321+53.10	27'-2 3/8"	573.43	578.41	571.43	577.47	595.62	589.37	593.37	599.37

Elevation A- Finished Grade at Front Face of Fascia Panel
Elevation B- Top of Slope at Front Face of Fascia Panel
Elevation C- Bottom of Fascia Panel
Elevation D- Existing Grade at Front Face of Fascia Panel
Elevation E- Finished Grade at Back Face of Parapet
Elevation F- Top of Shaft & Fascia Panel / Bottom of Cap
Elevation G- Top of Cap / Bottom of Parapet
Elevation H- Top of Parapet

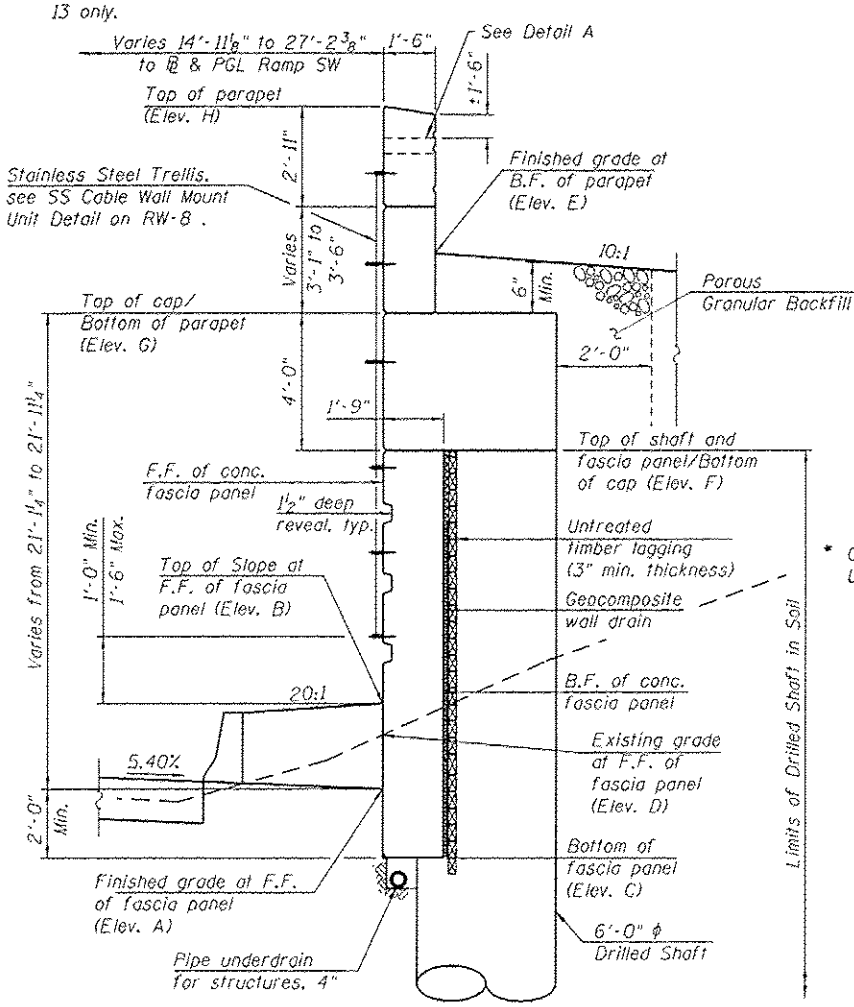
TOTAL BILL OF MATERIAL

Item	Unit	Total
Porous Granular Backfill	Cu. Yd.	614.7
Structure Excavation	Cu. Yd.	99.2
Concrete Structures	Cu. Yd.	178.1
Concrete Superstructure	Cu. Yd.	58.5
Reinforcement Bars	Pound	397,460
Reinforcement Bars, Epoxy Coated	Pound	16,370
Mechanical Splicers	Each	512
Concrete Sealer	Sq. Ft.	5684
Name Plates	Each	1
Drilled Shaft in Soil	Cu. Yd.	1340.5
Temporary Soil Retention System	Sq. Ft.	783
Crosshole Sonic Logging Access Ducts	Foot	1280
Crosshole Sonic Logging Testing	Each	1
Class SI Concrete (Miscellaneous)	Cu. Yd.	169.9
Foundation Construction at Existing Obstructions	Each	8
Removal of Soil Retention System	L. Sum	1
Stainless Steel Cable Plant Support System	L. Sum	1
Pipe Underdrain for Structures 4"	Foot	172

SUGGESTED CONSTRUCTION SEQUENCE

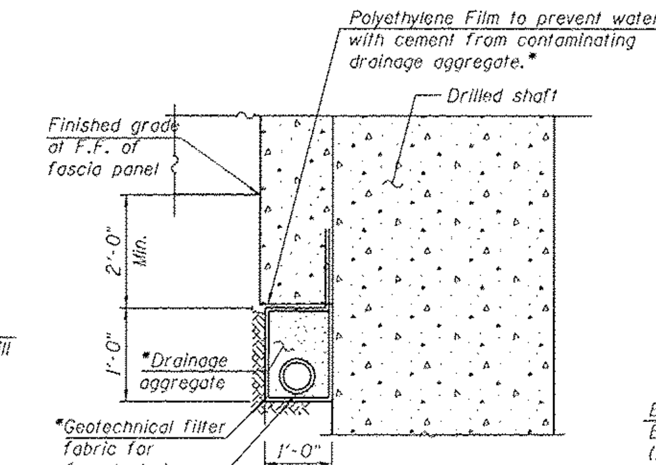
Note: Work with Relocated Monument Suggested Reassembly Sequence on Sheet MON-3. Any revisions shall be submitted and approved by the Engineer.

1. Construct drilled shaft 1 thru 16.
2. Construct drilled shaft cap & parapet.
3. Excavate in front of shafts to Finished grade, installing lagging system in the process.
4. Construct concrete fascia panel.



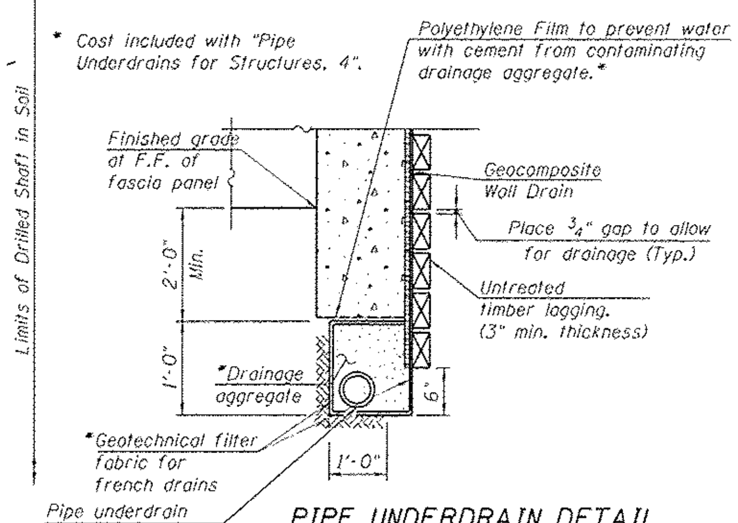
TYPICAL CROSS SECTION

(Looking Upstation)

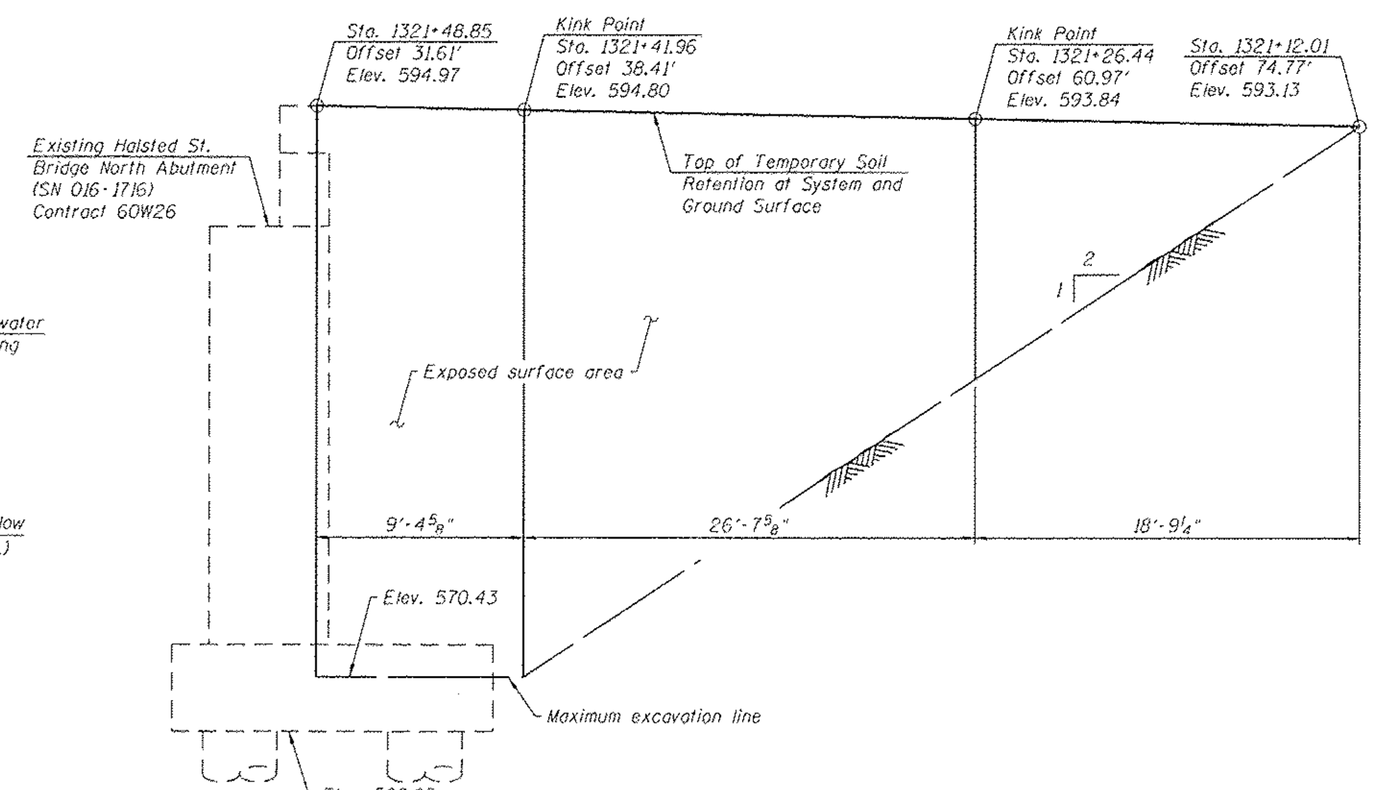


PIPE UNDERDRAIN DETAIL AT DRILLED SHAFT

* Cost included with "Pipe Underdrains for Structures, 4".



PIPE UNDERDRAIN DETAIL BETWEEN DRILLED SHAFTS



TEMPORARY SOIL RETENTION SYSTEM

Along Halsted St. Bridge (SN 016-1716) approach slab

USER NAME = vjcollett	DESIGNED - TLR	REVISED -	
	CHECKED - DL	REVISED -	
PLOT SCALE = 0.2 ' / in.	DRAWN - TLR	REVISED -	
PLOT DATE = 5/11/2017	CHECKED - DL/WJC	REVISED -	

TranSystems

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOTAL BILL OF MATERIAL AND GENERAL NOTES
STRUCTURE NO. 016-1808

SHEET NO. RW-2 OF RW-10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	338
		CONTRACT NO. 60X99		
		ILLINOIS FED. AID PROJECT		

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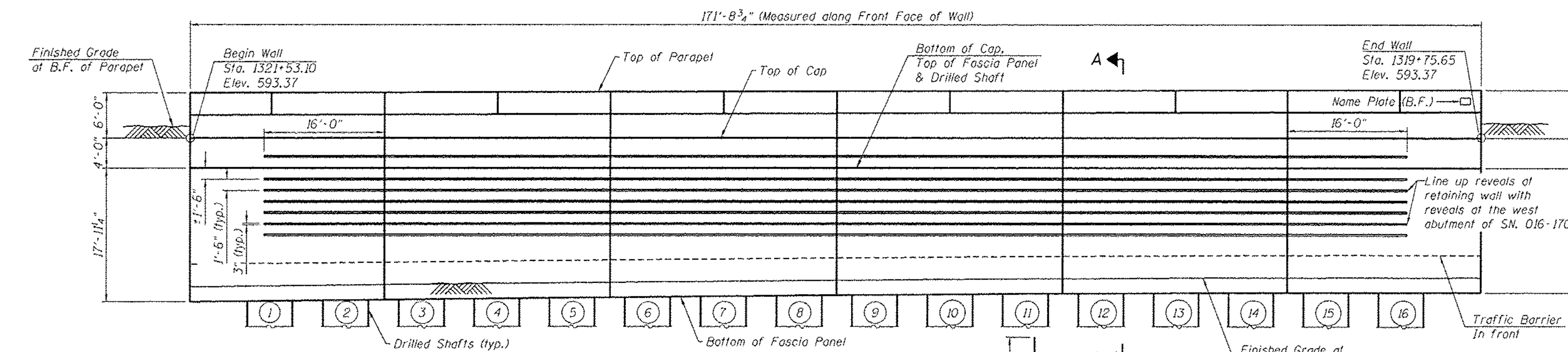
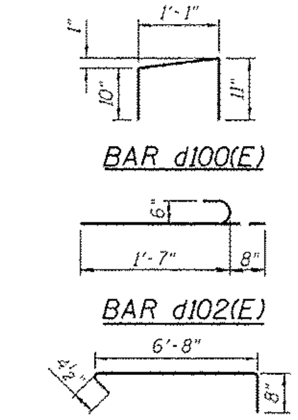
016-1808-60x99-S02-Gantiste

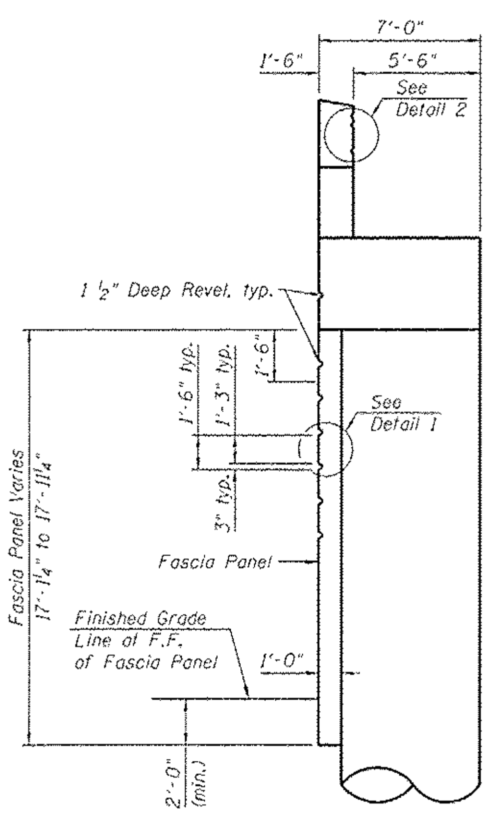
Δ Revised Sheet 6-5-17



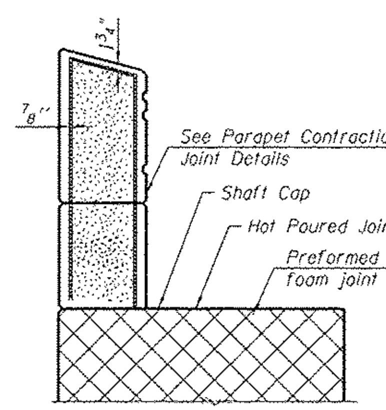
ELEVATION

(Looking Northwest at F.F. of Wall)

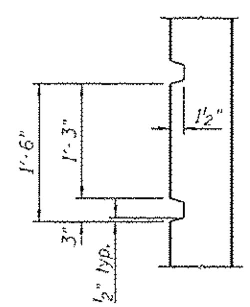




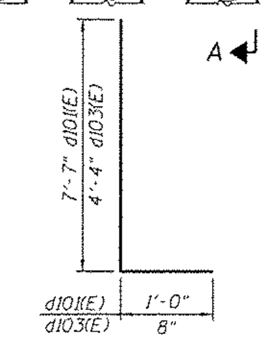
SECTION A-A



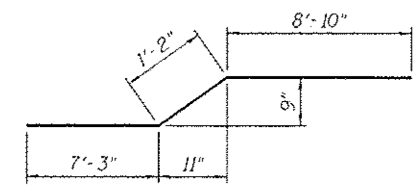
TRANSVERSE EXPANSION JOINT SECTION



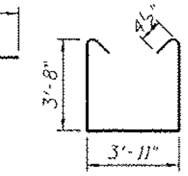
DETAIL 1



BAR d101(E)
BAR d103(E)



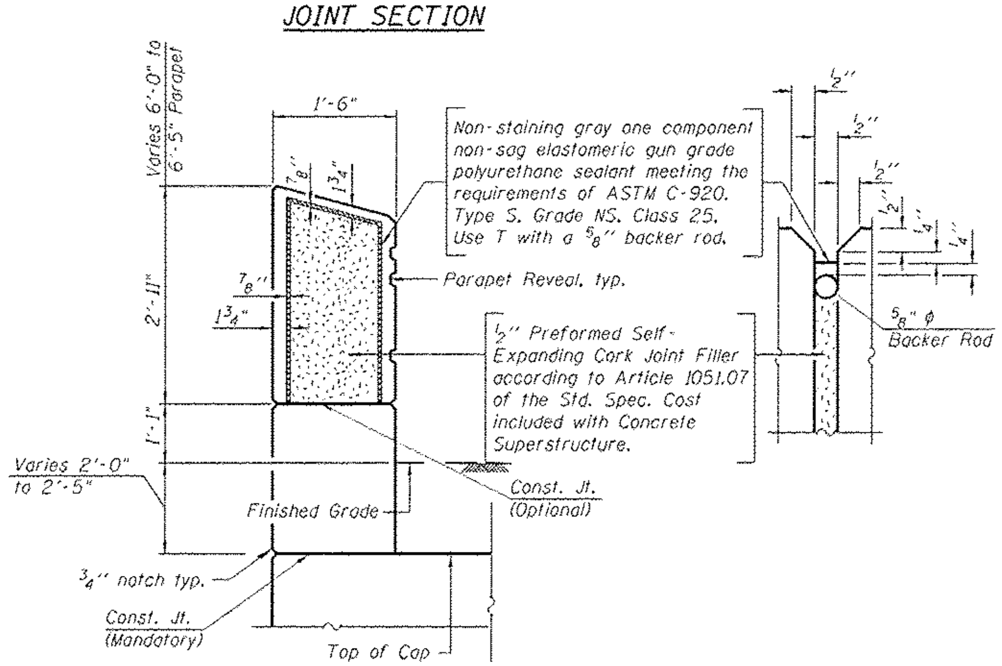
BAR h104(E)



BAR s101(E)

DRILLED SHAFT LAYOUT TABLE

Shaft No.	Station	Offset	Top of Shaft Elevation	Bottom of Shaft Elevation	Existing Groundline Elevation
1	1321+42.05	30.08 RT	589.37	509.37	577.74
2	1321+31.56	29.04 RT	589.37	509.37	574.28
3	1321+21.09	28.04 RT	589.37	509.37	574.85
4	1321+10.63	27.08 RT	589.37	509.37	574.28
5	1321+00.18	26.18 RT	589.37	509.37	574.25
6	1320+89.74	25.31 RT	589.37	509.37	574.33
7	1320+79.32	24.50 RT	589.37	509.37	574.37
8	1320+68.91	23.73 RT	589.37	509.37	574.39
9	1320+58.51	23.01 RT	589.37	509.37	574.44
10	1320+48.12	22.33 RT	589.37	509.37	574.45
11	1320+37.74	21.70 RT	589.37	509.37	575.23
12	1320+27.37	21.12 RT	589.37	509.37	576.30
13	1320+17.00	20.59 RT	589.37	509.37	576.95
14	1320+06.64	20.10 RT	589.37	509.37	577.71
15	1319+96.29	19.66 RT	589.37	509.37	578.07
16	1319+85.95	19.27 RT	589.37	509.37	578.62



PARAPET CONTRACTION JOINT DETAILS

NOTES:

1. The 3" x 1½" reveal in the fascia wall will not be paid separately and shall be included in the cost of the pay item Class SI Concrete (Miscellaneous).

2. Prior to fascia panel construction the Contractor shall submit retaining wall and abutments elevations showing reveal spacing and location to the Engineer for review and approval.

3. Work this sheet with Sheets RW-3, RW-4, and RW-6.

BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
	d100(E)	173	#4	2'-10"	
	d101(E)	346	#6	8'-7"	
**	d102(E)	608	#6	2'-3"	
	d103(E)	16	#4	5'-0"	
	e100(E)	16	#5	10'-6"	
	e101(E)	80	#5	14'-8"	
	e102(E)	16	#5	29'-0"	
	e103(E)	16	#5	33'-2"	
	e104(E)	16	#5	29'-8"	
	e105(E)	16	#4	4'-2"	
**	h100(E)	85	#6	17'-11"	
**	h101(E)	142	#6	16'-7"	
**	h102(E)	140	#6	34'-0"	
**	h103(E)	140	#6	29'-8"	
**	h104(E)	85	#6	17'-3"	
	h105(E)	8	#5	2'-6"	
	p100(E)	44	#6	29'-0"	
	p101(E)	44	#6	33'-2"	
	p102(E)	44	#6	29'-8"	
	s100(E)	116	#4	7'-9"	
	s101(E)	232	#4	12'-0"	
*	sp100	16	#6	17'-9"	
*	sp101	16	#6	61'-9"	
**	v100(E)	346	#6	17'-7"	
	v101	256	#14	43'-5"	
	v102	256	#14	45'-5"	
	v103	256	#14	39'-11"	
	v104	256	#14	37'-11"	

Item	Unit	Quantity
Porous Granular Backfill	Cu. Yd.	614.7
Structure Excavation	Cu. Yd.	99.2
Concrete Structures	Cu. Yd.	178.1
Concrete Superstructures	Cu. Yd.	58.5
Reinforcement Bars	Pound	397,460
Reinforcement Bars, Epoxy Coated	Pound	16,370
Concrete Sealer	Sq. Ft.	5,684
Drilled Shaft in Soil	Cu. Yd.	1,304.5
Crosshole Sonic Logging Access Ducts	Foot	1,280
Crosshole Sonic Logging Testing	Each	1
Class SI Concrete (Miscellaneous)	Cu. Yd.	169.9
Pipe Underdrain for Structures 4"	Foot	172

* Length is height of spiral
** Shown for information only. Cost included with Class SI Concrete (Miscellaneous).

TranSystems	USER NAME = wpolletti	DESIGNED - TLR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARCHITECTURAL DETAILS I STRUCTURE NO. 016-1808
		CHECKED - DL	REVISED -		
	PLOT SCALE = 10.0 ' / in.	DRAWN - TLR	REVISED -		
	PLOT DATE = 5/11/2017	CHECKED - DL/WJC	REVISED -		SHEET NO. RW-5 OF RW-10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	341
		CONTRACT NO. 60X99		
	ILLINOIS FED. AID PROJECT			

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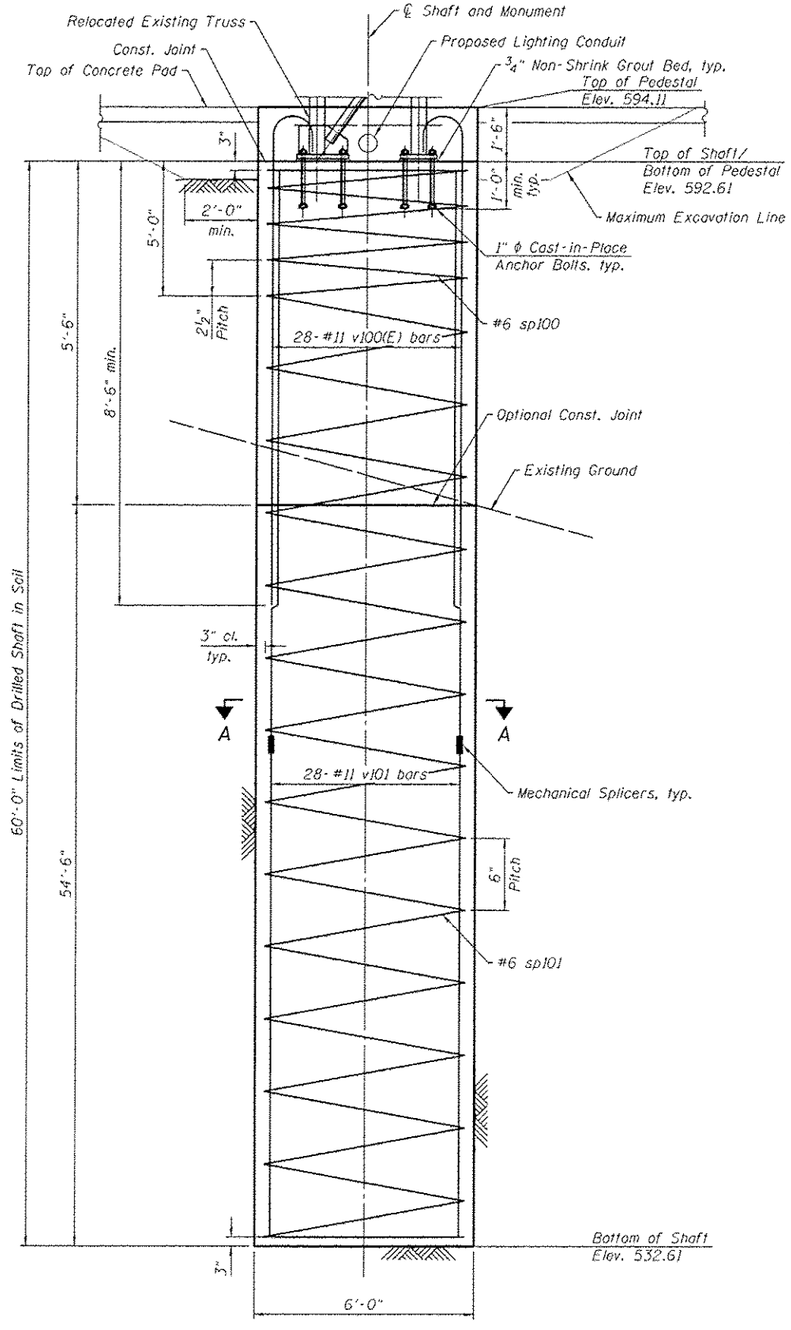
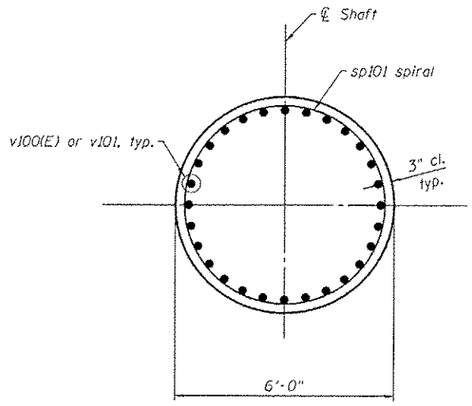
Revised Sheet 6-5-17



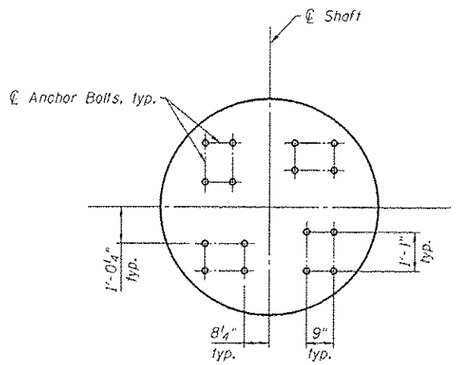
ELEVATION

(Looking North)

(Masonry panels not shown for clarity)



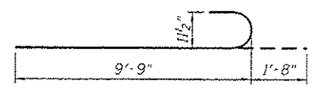
SECTION A-A



ANCHOR BOLT LAYOUT

NOTES:

1. 1" ϕ anchor bolts included in cost of Remove and Relocate Existing Monument. Space anchor bolts to avoid shaft reinforcement.
2. See Lighting plans for lighting and conduit details.
3. See Grading and Retaining Wall 39 plans for additional details.
4. Work this sheet with Sheet MON-3.
5. The Contractor shall exercise extreme caution during construction to make certain that construction activities, live load surcharge, and other loads applied to the structures will not have detrimental effects on the adjacent existing structures.
6. The Contractor shall field verify locations of existing underground utilities. The Contractor shall take precautions to protect existing utilities during construction of the foundation. Any damage to the existing utilities shall be the responsibility of the Contractor.
7. Concrete for Drilled Shaft shall be in accordance with Section 516 of the Standard Specifications and shall have the minimum compressive strength of 7,000 psi at 14 days.
8. Limited groundwater elevation data is available in the boring logs. In addition, groundwater may also be present in deeper granular layers. The groundwater may rise in the shaft to an elevation above top of granular layers. The Contractor shall consider this information when choosing construction methods. The Contractor shall not be compensated for issues related to groundwater elevation.
9. When splicing spiral reinforcement is necessary, the spiral shall be provided with 1½ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4 or shall both terminate with a 135° standard hook.
10. Maximum excavation slope is 1:2 (V:H).



BAR v100(E)

BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
*	sp100	1	#6	4'-9"	
*	sp101	1	#6	54'-9"	
	v100(E)	28	#11	11'-5"	
	v101	56	#11	29'-9"	
**	Anchor Bolts			Each	16
	Concrete Structures			Cu. Yd.	1.6
	Reinforcement Bars			Pound	12,420
	Reinforcement Bars, Epoxy Coated			Pound	1,700
	Mechanical Splicers			Each	28
	Drilled Shaft in Soil			Cu. Yd.	62.9
	Crosshole Sonic Logging Access Ducts			Foot	60
	Crosshole Sonic Logging Testing			Each	1

* Length is height of spiral

** Shown for information only. Cost included with Remove and Relocate Existing Monument.

7:23:43 AM
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TranSystems	USER NAME = wjoellett	DESIGNED - TLR	REVISED -
		CHECKED - WJC	REVISED -
	PLOT SCALE = 4.8 '/ in.	DRAWN - TLR	REVISED -
	PLOT DATE = 5/11/2017	CHECKED - WJC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MONUMENT RELOCATION
FOUNDATION DETAILS

SHEET NO. MON-2 OF MON-7 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-0178	COOK	442	356
		CONTRACT NO. 60X99		
		ILLINOIS FED. AID PROJECT		

1 Revised Sheet 6-5-17