

DESIGN DATA

MATERIAL PROPERTIES:

CONCRETE MASONRY — PRECAST PANELS ————— f'c = 4,000 P.S.I.
CONCRETE MASONRY — ALL OTHER ————— f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60 ————— fy = 60,000 P.S.I.
HIGH STRENGTH STRUCTURAL STEEL ASTM A709 GRADE 50 ————— fy = 50,000 P.S.I.

CURVE DATA

WAUKESHA BYPASS

P.I. = STA. A 255+87.62
Δ = 14°06'52"
D = 0°42'58"
T = 990.38'
L = 1970.74'
R = 8000'
P.C. = STA. A 245+97.23
P.T. = STA. A 265+67.97

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
206.3000	EXCAVATION FOR STRUCTURES RETAINING WALLS R-67-129	LS	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	1,100
501.1000.S	ICE HOT WEATHER CONCRETING	LB	1,208
504.0500	CONCRETE MASONRY RETAINING WALLS	CY	161
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	2,115
506.0605	STRUCTURAL STEEL HS	LB	72,094
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	2
517.0600	PAINTING EPOXY SYSTEM R-67-129	LS	1
636.0050.S	FOUNDATION DRILLING 36-INCH DIAMETER	LF	545
SPV.0060.20	TIEBACK ANCHORS	EACH	29
SPV.0060.21	TIEBACK ANCHOR PERFORMANCE TESTS	EACH	3
SPV.0090.03	FENCE CHAIN LINK POLYMER COATED 6-FT	LF	443
SPV.0165.02	PRECAST PANELS FOR POST AND PANEL WALLS	SF	5,455
NON-BID ITEMS			
	JOINT FILLER	SIZE	1/2" & 3/4"
	EXPANDED POLYSTYRENE	SIZE	1"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BEVEL ALL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE SHOWN OR NOTED.

ALL BAR STEEL REINFORCEMENT IN CAST-IN-PLACE CONCRETE IS TO BE EPOXY COATED.

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF JOINT FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP & HOLD 1/8" BELOW THE SURFACE OF CONCRETE).

ALL WALL STATIONING IS GIVEN AT THE FRONT FACE OF WALL R-67-129.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES RETAINING WALLS R-67-129" SHALL BE THE EXISTING GROUNDLINE.

THE PLAN QUANTITY FOR THE BID ITEM "PRECAST PANELS FOR POST AND PANEL WALLS" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF THE WALL TO A CONSTANT DEPTH OF 1'-6" BELOW THE FINISHED GRADE.


THE GEOTECHNICAL REPORT NOTES THAT SUBSURFACE CONDITIONS MAY RESULT IN DIFFICULT FOUNDATION DRILLING OPERATIONS.

LIST OF DRAWINGS

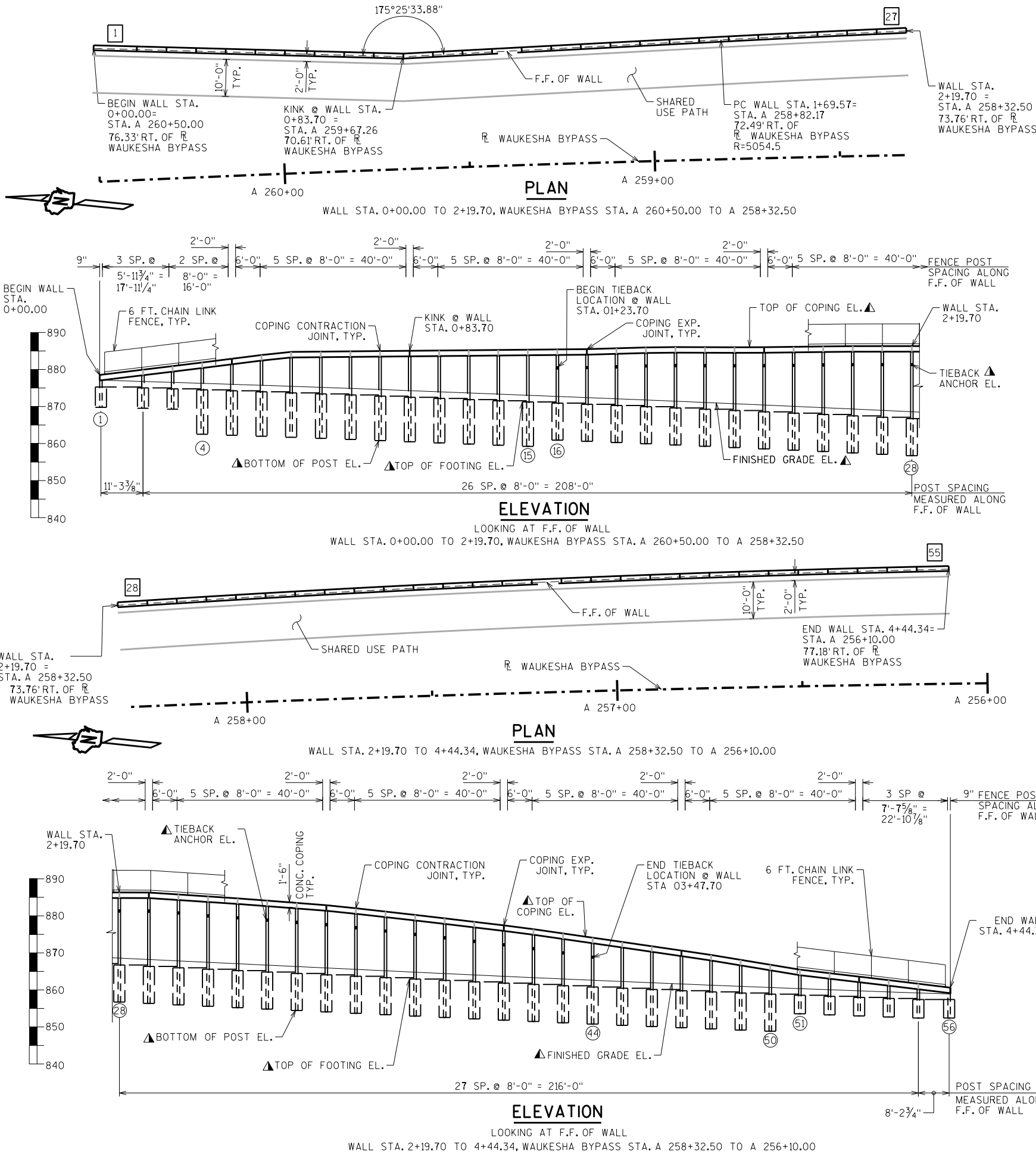
1. GENERAL PLAN
2. UTILITY PLAN
3. WALL DETAILS
4. WALL DATA 1
5. WALL DATA 2
6. CHAIN LINK FENCE DETAILS
7. SUBSURFACE EXPLORATION

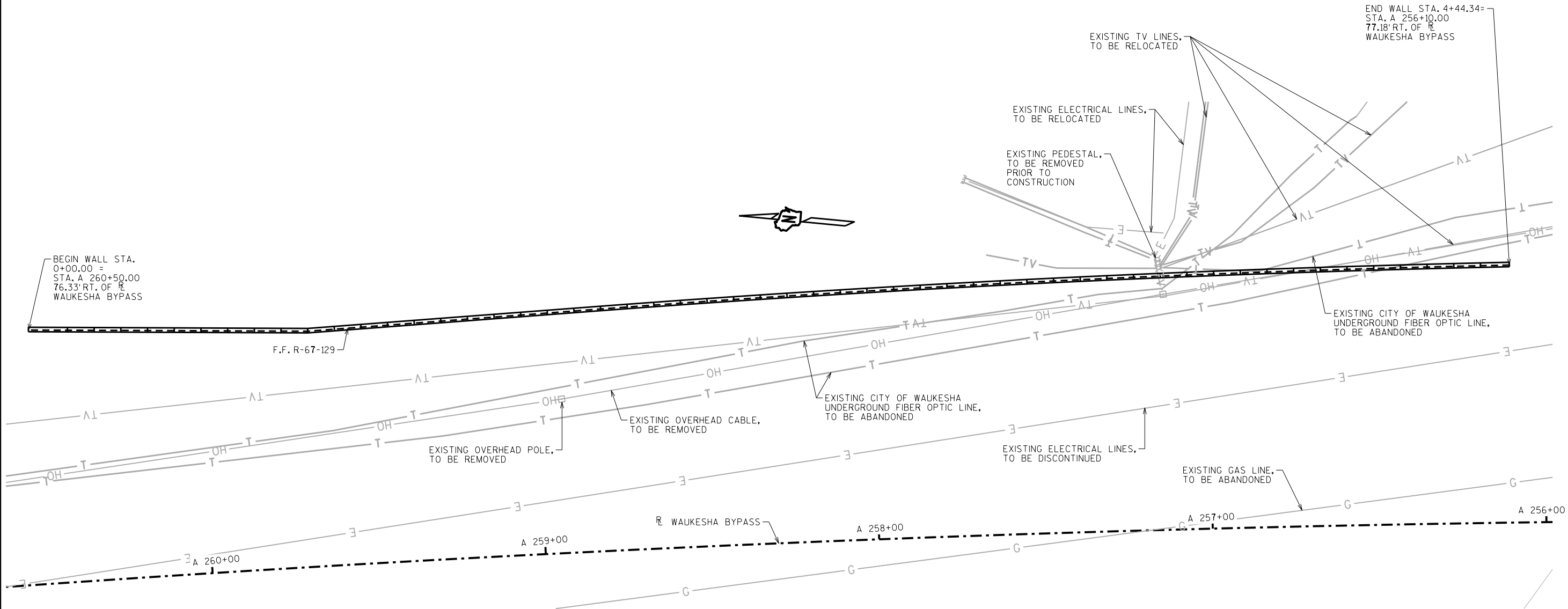
STRUCTURE DESIGN CONTACTS:

MAXWELL KULICK (608) 261-6108
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY
 Plans Prepared By WISDOT BUREAU OF STRUCTURES			
ACCEPTED <i>William C. Dehner</i> 6/23/15 CHIEF STRUCTURES DESIGN ENGINEER DATE			
STRUCTURE R-67-129			
POST & PANEL WALL ALONG WAUKESHA BYPASS			
COUNTY	WAUKESHA	TOWN/CITY/VILLAGE	WAUKESHA
DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS			
DESIGNED BY	MJK	CK'D. VT	PLANS BY MJK
GENERAL PLAN			SHEET 1 OF 7

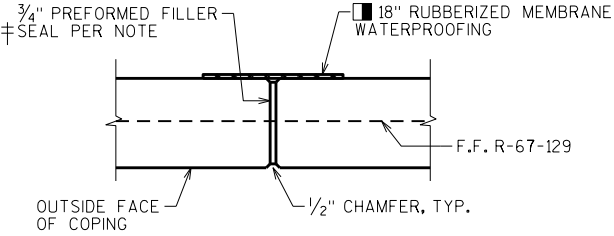
- ▲ SEE "WALL DATA 1" AND "WALL DATA 2" SHEETS FOR APPLICABLE DATA TABLES
- INDICATES PANEL NO.
- INDICATES POST NO.





UTILITY PLAN

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE R-67-129			
DRAWN BY		MJK	PLANS CK'D. VT
UTILITY PLAN		SHEET 2	



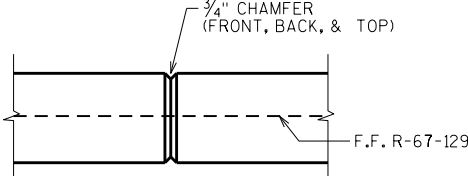
COPING EXPANSION JOINT

DO NOT RUN ANY BAR STEEL THRU JOINTS

MAXIMUM SPACING OF JOINT = 48'-0"
CENTER FILLER AND JOINT AT CL OF POST
PLACE JOINTS VERTICAL

SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLE 1/8" BELOW SURFACE OF CONC.)

MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS.

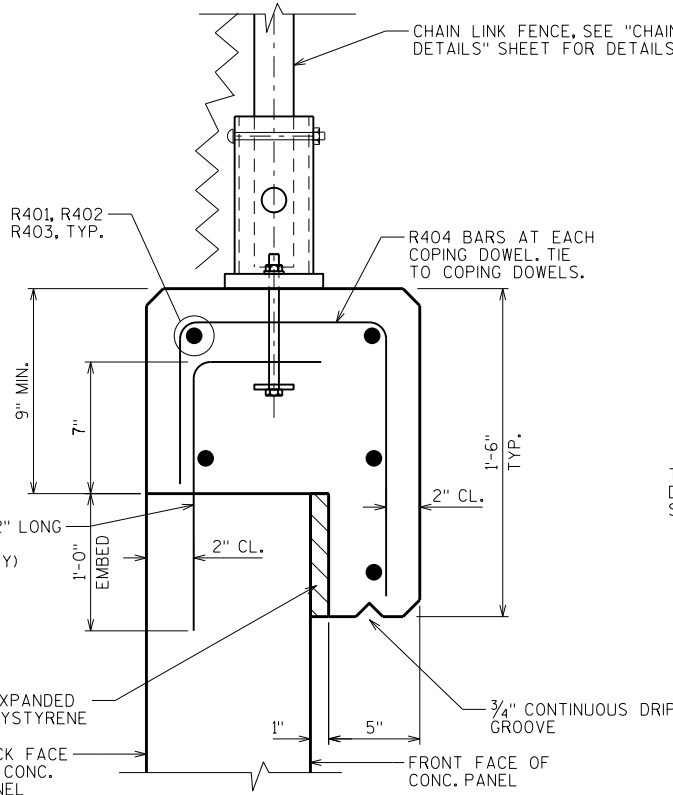


COPING CONTRACTION JOINT

DO NOT RUN ANY BAR STEEL THRU JOINTS

MAXIMUM SPACING OF JOINT = 11'-3 3/8"
CENTER JOINTS AT CL OF POST
PLACE JOINTS VERTICAL

#4 COPING DOWELS X 2'-2" LONG
(9 REQ'D PER PANEL
12 REQ'D AT PANEL 1 ONLY)
DOWELS TO BE INCLUDED
WITH BID ITEM "PRECAST
PANELS FOR POST AND
PANEL WALLS"



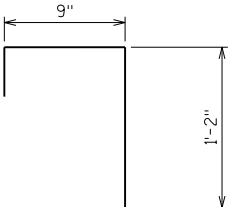
CAST-IN-PLACE CONCRETE COPING DETAIL

ALL BAR STEEL REINFORCEMENT SHALL BE EPOXY COATED

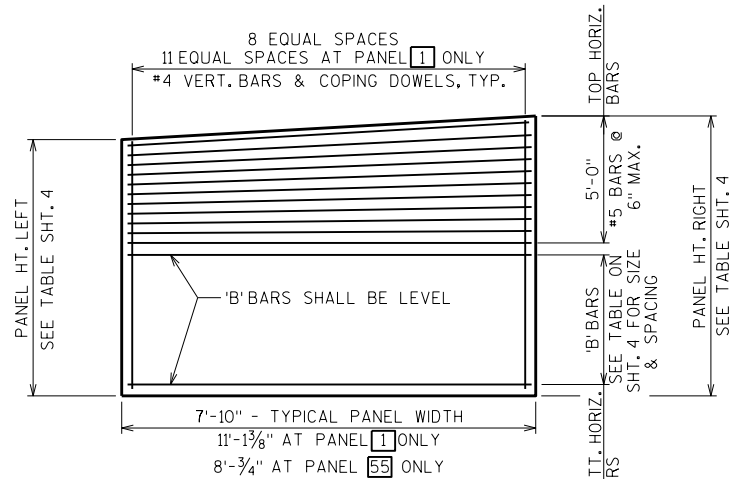
COPING BILL OF BARS

NOTE: THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
R401	X	265	7'-6"			COPING HORIZONTAL PANELS 2-54
R402	X	5	10'-11"			COPING HORIZONTAL PANEL 1
R403	X	5	7'-8"			COPING HORIZONTAL PANEL 55
R404	X	498	2'-2"	X		COPING VERTICAL



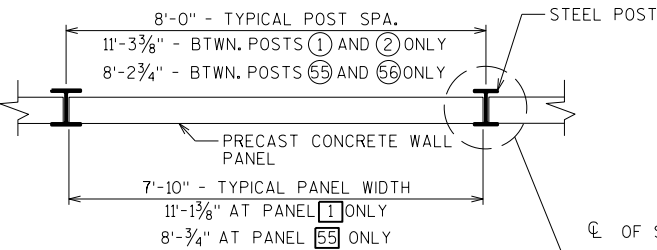
R404



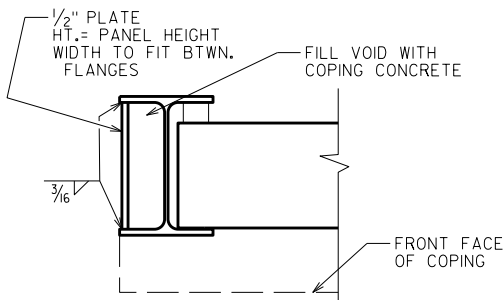
TYPICAL PANEL ELEVATION

(LOOKING AT FRONT FACE)

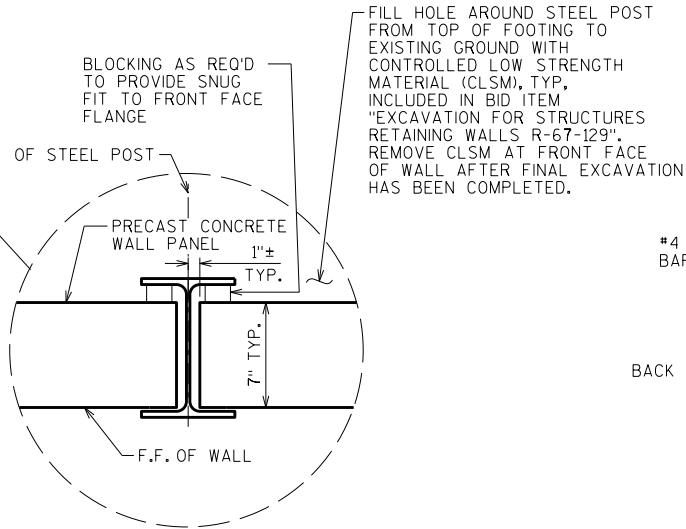
ALL BAR STEEL REINFORCEMENT SHALL BE EPOXY COATED



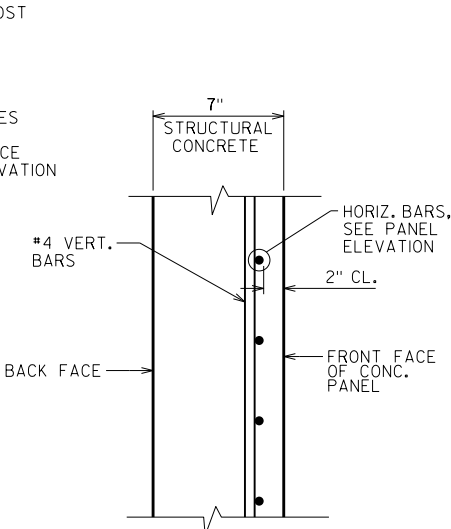
PLAN OF PANEL



POST DETAIL AT BEGIN/END OF WALL

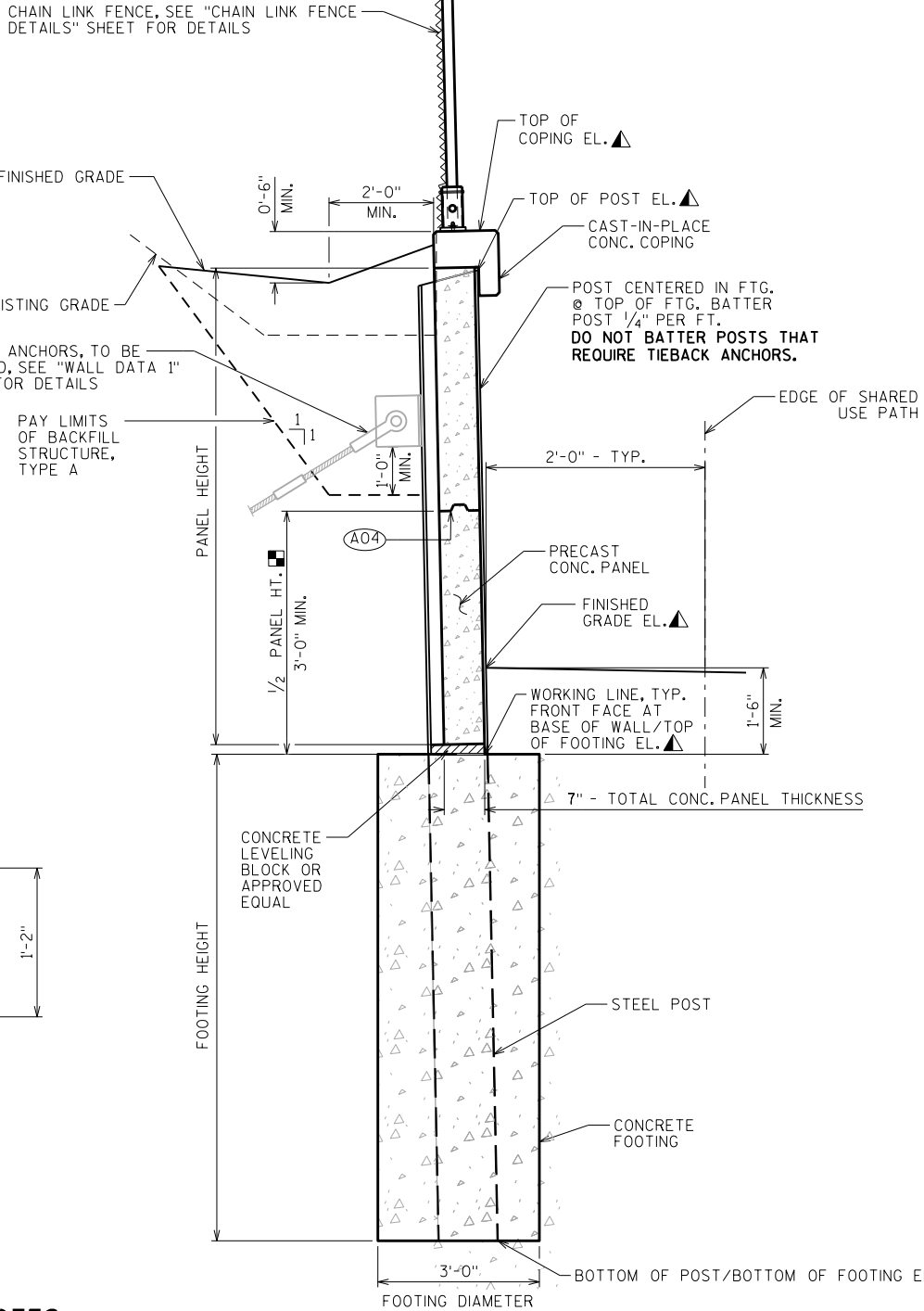


PANEL DETAIL AT POST



TYPICAL SECTION THRU PANEL

ALL BAR STEEL REINFORCEMENT SHALL BE EPOXY COATED



SECTION THRU WALL

NOTES

- SEE "WALL DATA 1" AND "WALL DATA 2" SHEETS FOR APPLICABLE DATA TABLES.
- PANELS HEIGHTS OF 6'-0" OR GREATER MAY BE FABRICATED FULL PANEL HEIGHT OR HALF PANEL HEIGHT. PANELS SHALL BE CLEARLY LABELED FOR CORRECT LOCATION AND ORIENTATION.
- OPTIONAL HORIZ. CONSTRUCTION JOINT: FORMED BY BEVELED 2 x 4. JOINT SHALL BE LEVEL.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE R-67-129			
DRAWN BY		MJK	PLANS CKD. VT
WALL DETAILS		SHEET 3	

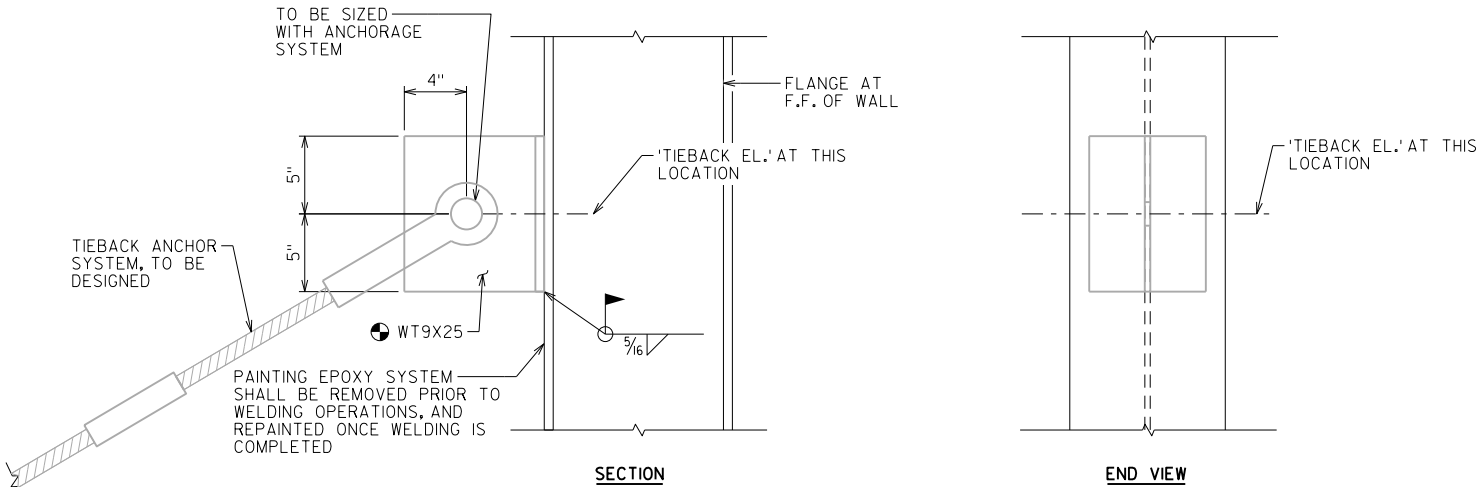
POST NUMBER	CL POST STA.	OFFSET TO CL OF POST	POST * WALL STA.	POST SHAPE	POST LENGTH	TOP OF POST EL.	BOTTOM OF POST EL.	TOP OF FOOTING EL.	FOOTING HEIGHT	TOP OF COPING EL.	TIEBACK EL.	TIEBACK DESIGN LOAD	POST NUMBER	CL POST STA.	OFFSET TO CL OF POST	POST * WALL STA.	POST SHAPE	POST LENGTH	TOP OF POST EL.	BOTTOM OF POST EL.	TOP OF FOOTING EL.	FOOTING HEIGHT	TOP OF COPING EL.	TIEBACK EL.	TIEBACK DESIGN LOAD
1	A 260+49.56	76.75 RT	00+00.42	W12X53	9.77	877.78	868.01	875.01	7.0	878.58	N / A	N / A	29	A 258+24.60	74.41 RT	02+27.70	W12X53	29.44	885.52	856.08	866.08	10	886.29	880.52	45
2	A 260+38.41	75.93 RT	0+11.70	W12X53	11.38	879.14	867.76	874.76	7.0	879.95	N / A	N / A	30	A 258+16.67	74.59 RT	02+35.70	W12X53	29.29	884.99	855.70	865.70	10	885.77	879.99	45 ☆
3	A 260+30.51	75.36 RT	0+19.70	W12X53	12.60	880.11	867.51	874.51	7.0	880.91	N / A	N / A	31	A 258+08.75	74.76 RT	02+43.70	W12X53	29.11	884.46	855.35	865.35	10	885.24	879.46	45
4	A 260+22.60	74.80 RT	0+27.70	W12X72	18.85	881.09	862.24	874.24	12	881.89	N / A	N / A	32	A 258+00.82	74.93 RT	02+51.70	W12X53	28.99	883.93	854.94	864.94	10	884.71	878.93	45
5	A 260+14.70	74.24 RT	0+35.70	W12X72	20.12	882.10	861.98	873.98	12	882.9	N / A	N / A	33	A 257+92.90	75.10 RT	02+59.70	W12X53	28.76	883.32	854.56	864.56	10	884.11	878.32	45
6	A 260+06.79	73.69 RT	0+43.70	W12X72	21.39	883.10	861.71	873.71	12	883.9	N / A	N / A	34	A 257+84.97	75.26 RT	02+67.70	W12X53	28.53	882.71	854.18	864.18	10	883.49	877.71	45
7	A 259+98.88	73.15 RT	0+51.70	W12X72	22.53	883.95	861.42	873.42	12	884.75	N / A	N / A	35	A 257+77.05	75.42 RT	02+75.70	W12X53	28.28	882.08	853.80	863.80	10	882.87	877.08	45
8	A 259+90.97	72.62 RT	0+59.70	W12X72	22.93	884.07	861.14	873.14	12	884.82	N / A	N / A	36	A 257+69.13	75.57 RT	02+83.70	W12X53	27.83	881.25	853.42	863.42	10	882.04	876.25	45
9	A 259+83.06	72.09 RT	0+67.70	W12X72	23.28	884.14	860.86	872.86	12	884.9	N / A	N / A	37	A 257+61.20	75.72 RT	02+91.70	W12X53	27.31	880.35	853.04	863.04	10	881.15	875.35	45
10	A 259+75.15	71.58 RT	0+75.70	W12X72	23.68	884.22	860.54	872.54	12	884.97	N / A	N / A	38	A 257+53.28	75.86 RT	02+99.70	W12X53	26.79	879.45	852.66	862.66	10	880.25	874.45	45
11	A 259+67.25	71.09 RT	0+83.70	W12X72	24.06	884.29	860.23	872.23	12	885.04	N / A	N / A	39	A 257+45.35	76.00 RT	03+07.70	W12X53	26.23	878.52	852.29	862.29	10	879.32	873.52	45 ☆
12	A 259+59.34	71.20 RT	0+91.70	W12X72	24.46	884.37	859.91	871.91	12	885.12	N / A	N / A	40	A 257+37.43	76.14 RT	03+15.70	W12X53	25.66	877.58	851.92	861.92	10	878.38	872.58	45
13	A 259+51.41	71.35 RT	0+99.70	W12X72	24.84	884.44	859.60	871.60	12	885.19	N / A	N / A	41	A 257+29.50	76.27 RT	03+23.70	W12X53	25.06	876.62	851.56	861.56	10	877.43	871.62	45
14	A 259+43.48	71.50 RT	01+07.70	W12X72	25.23	884.52	859.29	871.29	12	885.27	N / A	N / A	42	A 257+21.58	76.39 RT	03+31.70	W12X53	24.37	875.58	851.21	861.21	10	876.39	870.58	45
15	A 259+35.56	71.66 RT	01+15.70	W12X72	25.62	884.59	858.97	870.97	12	885.34	N / A	N / A	43	A 257+13.66	76.51 RT	03+39.70	W12X53	23.58	874.44	850.86	860.86	10	875.25	869.44	45
16	A 259+27.63	71.83 RT	01+23.70	W12X53	23.99	884.66	860.67	870.67	10	885.42	879.66	45	44	A 257+05.73	76.62 RT	03+47.70	W12X53	22.77	873.29	850.52	860.52	10	874.1	868.29	45
17	A 259+19.70	72.00 RT	01+31.70	W12X53	24.41	884.74	860.33	870.33	10	885.49	879.74	45	45	A 256+97.81	76.73 RT	03+55.70	W12X53	21.96	872.14	850.18	860.18	10	872.95	N / A	N / A
18	A 259+11.78	72.19 RT	01+39.70	W12X53	24.95	884.96	860.01	870.01	10	885.72	879.96	45	46	A 256+89.88	76.84 RT	03+63.70	W12X53	21.12	870.97	849.85	859.85	10	871.78	N / A	N / A
19	A 259+03.85	72.38 RT	01+47.70	W12X53	25.51	885.19	859.68	869.68	10	885.95	880.19	45	47	A 256+81.96	76.94 RT	03+71.70	W12X53	20.29	869.81	849.52	859.52	10	870.62	N / A	N / A
20	A 258+95.92	72.58 RT	01+55.70	W12X53	25.95	885.29	859.34	869.34	10	886.05	880.29	45 ☆	48	A 256+74.04	77.04 RT	03+79.70	W12X53	19.41	868.62	849.21	859.21	10	869.44	N / A	N / A
21	A 258+88.00	72.79 RT	01+63.70	W12X53	26.27	885.27	859.00	869.00	10	886.02	880.27	45	49	A 256+66.11	77.13 RT	03+87.70	W12X53	18.40	867.30	848.90	858.90	10	868.12	N / A	N / A
22	A 258+80.07	73.00 RT	01+71.70	W12X53	26.60	885.25	858.65	868.65	10	886	880.25	45	50	A 256+58.19	77.21 RT	03+95.70	W12X53	17.39	865.98	848.59	858.59	10	866.8	N / A	N / A
23	A 258+72.15	73.22 RT	01+79.70	W12X53	26.97	885.27	858.30	868.30	10	886.02	880.27	45	51	A 256+50.26	77.28 RT	04+03.70	W12X53	11.38	864.67	853.29	858.29	5	865.47	N / A	N / A
24	A 258+64.22	73.43 RT	01+87.70	W12X53	27.42	885.36	857.94	867.94	10	886.12	880.36	45	52	A 256+42.34	77.37 RT	04+11.70	W12X53	10.72	863.72	853.00	858.00	5	864.52	N / A	N / A
25	A 258+56.30	73.63 RT	01+95.70	W12X53	27.88	885.46	857.58	867.58	10	886.22	880.46	45	53	A 256+34.42	77.44 RT	04+19.70	W12X53	10.08	862.78	852.70	857.70	5	863.58	N / A	N / A
26	A 258+48.37	73.83 RT	02+03.70	W12X53	28.34	885.55	857.21	867.21	10	886.3	880.55	45	54	A 256+26.49	77.51 RT	04+27.70	W12X53	9.41	861.84	852.43	857.43	5	862.64	N / A	N / A
27	A 258+40.45	73.03 RT	02+11.70	W12X53	28.73	885.56	856.83	866.83	10	886.31	880.56	45	55	A 256+18.57	77.57 RT	04+35.70	W12X53	8.72	860.87	852.15	857.15	5	861.67	N / A	N / A
28	A 258+32.52	74.22 RT	02+19.70	W12X53	29.10	885.56	856.46	866.46	10	886.31	880.56	45	56	A 256+10.42	77.63 RT	04+43.93	W12X53	7.72	859.86	852.14	857.14	5	860.66	N / A	N / A

POST DATA

ALL GIVEN DIMENSIONS AND ELEVATIONS ARE IN FEET
* POST WALL STATIONS MEASURED ALONG F.F. OF WALL
DESIGN LOAD IS GIVEN IN KIPS

NOTES

- POST LENGTHS AND PANEL HEIGHTS MAY BE FABRICATED TO THE NEAREST WHOLE INCH VALUE AT THE CONTRACTORS OPTION.
- TIEBACKS TO BE DESIGNED BY CONTRACTOR UTILIZING DESIGN LOAD NOTED IN TABLE.
- ☆ TIEBACK ANCHOR PERFORMANCE TEST REQUIRED AT THIS LOCATION AND IS TO BE PAID FOR UNDER "TIEBACK ANCHOR PERFORMANCE TESTS".
- ALTERNATE ANCHORAGE MAY BE ALLOWED WITH ACCEPTANCE OF WALL ANCHORAGE SYSTEM.
- ⦿ STRUCTURAL STEEL USED FOR TIEBACK ANCHOR DETAIL CONNECTION INCIDENTAL TO "TIEBACK ANCHORS".



TIEBACK ANCHOR CONNECTION DETAIL

CONCRETE PANEL NOT SHOWN IN DETAIL

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE R-67-129			
DRAWN BY		MJK	PLANS CKD. VT
WALL DATA 1		SHEET 4	

PANEL NUMBER	PANEL BOTTOM. EL.	PANEL TOP EL. LT.	PANEL TOP EL. RT.	PANEL HEIGHT LT.	PANEL HEIGHT RT.	'B' BARS
1	875.26	877.78	879.14	2.52	3.88	N / A
2	875.01	879.14	880.11	4.13	5.10	N / A
3	874.76	880.11	881.09	5.35	6.33	N / A
4	874.49	881.09	882.10	6.60	7.61	#5'S @ 6.5" MAX.
5	874.23	882.10	883.10	7.87	8.87	#5'S @ 6.5" MAX.
6	873.96	883.10	883.95	9.14	9.99	#5'S @ 6.5" MAX.
7	873.67	883.95	884.07	10.28	10.40	#5'S @ 6.5" MAX.
8	873.39	884.07	884.14	10.68	10.75	#5'S @ 6.5" MAX.
9	873.11	884.14	884.22	11.03	11.11	#5'S @ 6.5" MAX.
10	872.79	884.22	884.29	11.43	11.50	#5'S @ 6.5" MAX.
11	872.48	884.29	884.37	11.81	11.89	#5'S @ 6.5" MAX.
12	872.16	884.37	884.44	12.21	12.28	#5'S @ 6.5" MAX.
13	871.85	884.44	884.52	12.59	12.67	#5'S @ 6.5" MAX.
14	871.54	884.52	884.59	12.98	13.05	#5'S @ 6.5" MAX.
15	871.22	884.59	884.66	13.37	13.44	#5'S @ 6.5" MAX.
16	870.92	884.66	884.74	13.74	13.82	#6'S @ 6.5" MAX.
17	870.58	884.74	884.96	14.16	14.38	#6'S @ 6.5" MAX.
18	870.26	884.96	885.19	14.70	14.93	#6'S @ 6.5" MAX.
19	869.93	885.19	885.29	15.26	15.36	#6'S @ 6.5" MAX.
20	869.59	885.29	885.27	15.70	15.68	#6'S @ 6.5" MAX.
21	869.25	885.27	885.25	16.02	16.00	#6'S @ 6.5" MAX.
22	868.90	885.25	885.27	16.35	16.37	#6'S @ 6.5" MAX.
23	868.55	885.27	885.36	16.72	16.81	#6'S @ 6.5" MAX.
24	868.19	885.36	885.46	17.17	17.27	#6'S @ 6.5" MAX.
25	867.83	885.46	885.55	17.63	17.72	#6'S @ 6.5" MAX.
26	867.46	885.55	885.56	18.09	18.10	#6'S @ 6.5" MAX.
27	867.08	885.56	885.56	18.48	18.48	#6'S @ 6.5" MAX.

PANEL NUMBER	PANEL BOTTOM. EL.	PANEL TOP EL. LT.	PANEL TOP EL. RT.	PANEL HEIGHT LT.	PANEL HEIGHT RT.	'B' BARS
28	866.71	885.56	885.52	18.85	18.81	#6'S @ 6.5" MAX.
29	866.33	885.52	884.99	19.19	18.66	#6'S @ 6.5" MAX.
30	865.95	884.99	884.46	19.04	18.51	#6'S @ 6.5" MAX.
31	865.60	884.46	883.93	18.86	18.33	#6'S @ 6.5" MAX.
32	865.19	883.93	883.32	18.74	18.13	#6'S @ 6.5" MAX.
33	864.81	883.32	882.71	18.51	17.90	#6'S @ 6.5" MAX.
34	864.43	882.71	882.08	18.28	17.65	#6'S @ 6.5" MAX.
35	864.05	882.08	881.25	18.03	17.20	#6'S @ 6.5" MAX.
36	863.67	881.25	880.35	17.58	16.68	#6'S @ 6.5" MAX.
37	863.29	880.35	879.45	17.06	16.16	#6'S @ 6.5" MAX.
38	862.91	879.45	878.52	16.54	15.61	#6'S @ 6.5" MAX.
39	862.54	878.52	877.58	15.98	15.04	#6'S @ 6.5" MAX.
40	862.17	877.58	876.62	15.41	14.45	#6'S @ 6.5" MAX.
41	861.81	876.62	875.58	14.81	13.77	#6'S @ 6.5" MAX.
42	861.46	875.58	874.44	14.12	12.98	#6'S @ 6.5" MAX.
43	861.11	874.44	873.29	13.33	12.18	#6'S @ 6.5" MAX.
44	860.77	873.29	872.14	12.52	11.37	#6'S @ 6.5" MAX.
45	860.43	872.14	870.97	11.71	10.54	#5'S @ 6.5" MAX.
46	860.10	870.97	869.81	10.87	9.71	#5'S @ 6.5" MAX.
47	859.77	869.81	868.62	10.04	8.85	#5'S @ 6.5" MAX.
48	859.46	868.62	867.30	9.16	7.84	#5'S @ 6.5" MAX.
49	859.15	867.30	865.98	8.15	6.83	#5'S @ 6.5" MAX.
50	858.84	865.98	864.67	7.14	5.83	N / A
51	858.54	864.67	863.72	6.13	5.18	N / A
52	858.25	863.72	862.78	5.47	4.53	N / A
53	857.95	862.78	861.84	4.83	3.89	N / A
54	857.68	861.84	860.87	4.16	3.19	N / A
55	857.40	860.87	859.86	3.47	2.46	N / A

WALL STATION	WAUKESHA BYPASS STATION	OFFSET TO F.F. WALL	TOP OF COPING ELEV.	FINISHED GRADE ELEV.
0+00.00	A 260+50.00	76.33' RT	878.53	877.16
0+25.30	A 260+25.00	74.51' RT	881.59	876.34
0+50.59	A 260+00.00	72.77' RT	884.77	875.52
0+75.87	A 259+75.00	71.11' RT	884.96	874.60
0+83.70	A 259+67.26	70.61' RT	885.02	874.28
1+01.11	A 259+50.00	70.92' RT	885.15	873.68
1+26.34	A 259+25.00	71.43' RT	885.34	872.62
1+51.57	A 259+00.00	72.02' RT	886.06	871.73
1+76.80	A 258+75.00	72.69' RT	885.98	870.53
2+02.04	A 258+50.00	73.34' RT	886.28	869.55
2+27.28	A 258+25.00	73.94' RT	886.32	868.23
2+52.52	A 258+00.00	74.50' RT	884.66	867.19
2+77.75	A 257+75.00	75.00 RT	882.71	865.83
3+02.99	A 257+50.00	75.47' RT	879.88	864.80
3+28.23	A 257+25.00	75.88' RT	876.89	863.46
3+53.47	A 257+00.00	76.25' RT	873.27	862.53
3+78.72	A 256+75.00	76.57' RT	869.60	861.31
4+03.96	A 256+50.00	76.84' RT	865.43	860.51
4+29.20	A 256+25.00	77.07' RT	862.46	859.40
4+44.34	A 256+10.00	77.18' RT	860.61	858.89

WALL DATA

PANEL DATA

ALL GIVEN DIMENSIONS AND ELEVATIONS ARE IN FEET

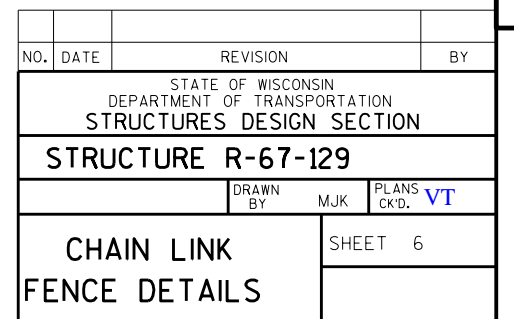
NOTES

POST LENGTHS AND PANEL HEIGHTS MAY BE FABRICATED TO THE NEAREST WHOLE INCH VALUE AT THE CONTRACTORS OPTION.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE R-67-129			
DRAWN BY		MJK	PLANS CK'D. VT
WALL DATA 2			SHEET 5

SCALE = 1:0

STEEL FENCE MEMBER	OUTSIDE DIAMETER (INCHES)	WEIGHT (LB/FT)
RAILS	1.660	2.27
END POST	2.875	5.80
OVERHANG POST	2.875	5.80
LINE POST	2.375	3.65
POST SLEEVE	4.000	9.12



MINIMUM LENGTH OF TOP RAIL BETWEEN SPLICES SHALL BE 20'-0". LOCATE SPLICES NEAR $\frac{1}{4}$ POINT OF POST SPACING.

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	12/01/2015	161932.23	668757.268
2	12/02/2015	162035.793	668743.3
3	12/09/2015	162158.665	668747.692
BORINGS COMPLETED BY: WISDOT			
REPORT COMPLETED BY: WISDOT			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) WAUKESHA COUNTY			



STATE PROJECT NUMBER		
2788-00-71		
MATERIAL SYMBOLS		
ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/META

LEGEND OF BORING	
BORING # / EL. STA. / OFF-SET	
ST (1) (2) 0.25 17	
F-C	COBBLE OR BOULDER
	WEATHERED LIMESTONE
	CORE RUN #1 - 24'-29' REC=80%, ROD=72%
(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)	
(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.	
GROUND WATER ELEVATION	
AT TIME OF DRILLING	
END OF DRILLING	
AFTER DRILLING	
ABBREVIATIONS	
F-FINE	M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE R-67-129			
DRAWN BY MJK/TLP		PLANS CKD. VT	
SUBSURFACE EXPLORATION		SHEET 7	

* THE GROUND WATER ELEVATION WAS DETERMINED FROM WHERE THE SOIL SAMPLE WAS DESCRIBED AS WET.

