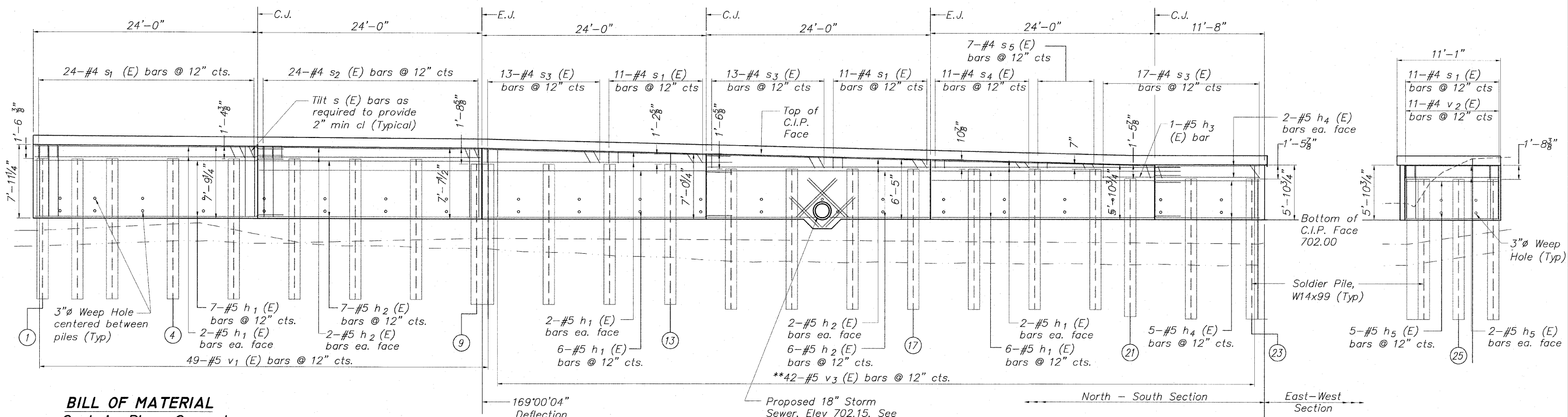


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**BILL OF MATERIAL**  
**Cast-in-Place Concrete**

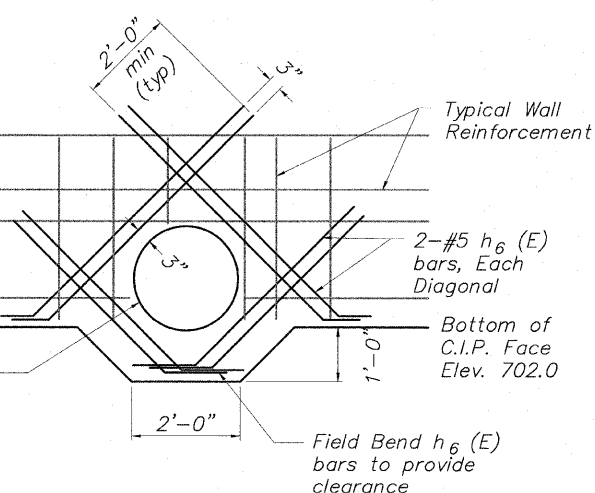
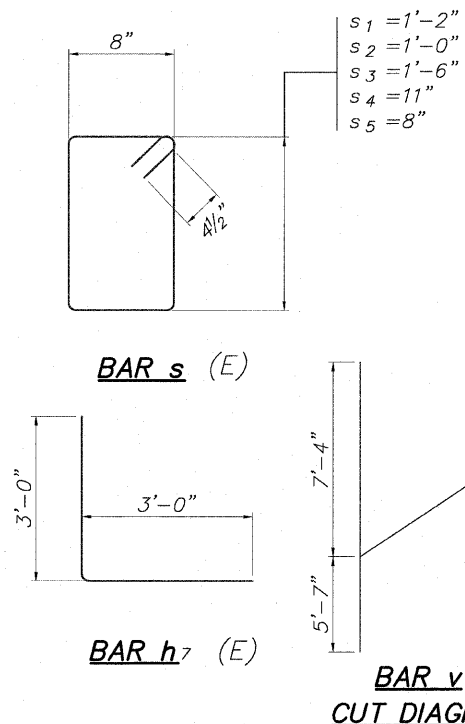
Bar	No.	Size	Length	Shape
h1 (E)	31	#5	26'-5"	—
h2 (E)	21	#5	23'-8"	—
h3 (E)	1	#5	8'-3"	—
h4 (E)	9	#5	11'-1"	—
h5 (E)	9	#5	10'-1"	—
h6 (E)	8	#5	6'-0"	—
h7 (E)	10	#5	6'-6"	—
v1 (E)	49	#5	7'-6"	—
v2 (E)	11	#5	5'-8"	—
**v3 (E)	42	#5	12'-11"	—
s1 (E)	57	#4	4'-5"	□
s2 (E)	24	#4	4'-1"	□
s3 (E)	43	#4	5'-1"	□
s4 (E)	11	#4	3'-11"	□
s5 (E)	7	#4	3'-5"	□
Concrete Structures	Cu. Yd.		32.2	
Reinforcement Bars (Epoxy Coated)	Pound		3,135	
Form Liner Textured Surface	Sq. Ft.		973	

\*\*Order bars full length, field cut bars and use remaining bars at opposite end.

**ELEVATION (Showing C.I.P. Facing Reinforcement)**  
**North-South Section**  
(Looking @ Front Face of Wall)

**MINIMUM BAR LAP**

- No. 4 bars 1'-8"
- No. 5 bars 2'-2"
- No. 6 bars 2'-7"



Move horizontal and vertical wall reinforcement up to one half their bar spacing to miss wall opening

**WALL PENETRATION DETAIL**

\*\*Order bars full length, field cut bars and use remaining bars at opposite end.

**ELEVATION (Showing C.I.P. Facing Reinforcement)**  
**East-West Section**  
(Looking @ Front Face of Wall)

BORING NUMBER	STATION	OFFSET	GROUND ELEV.	EST. COMP. ROCK ELEV.
B-1	205+62	20.1' LT	728	N/A
B-2	206+69	44.3' LT	728	N/A
B-3	207+60	36.1' LT	728	701.5
B-4	208+20	43.1' RT	695	693.5
B-5	209+64	59.9' RT	693	691.0
B-6	210+83	40.15' RT	696	693.0
B-7	212+10	37.74' RT	696	694.5
B-8	213+71	34.17' RT	698	691.5
B-9	211+98	31.8' LT	716	706.0
B-10	211+67	77.9' LT	720	710.0
B-11	212+57	61.6' LT	721	705.0
B-12	211+12	200.5' LT	736	714.0
B-13	212+13	155.2' LT	730	709.0
B-14	209+57	39.5' LT	730	705.0
B-15	208+63	54.3' LT	730	700.0

**SP WALL No. 24 DETAILS**  
**CAST-IN-PLACE CONCRETE ELEVATION**  
**PEDESTRIAN RIVERWALK**  
**ALONG THE ROCK RIVER**  
**WINNEBAGO COUNTY**  
**SECTION NO. 06-00543-00-BT**  
**STATION 211+87.04 TO**  
**STATION 213+18.55**

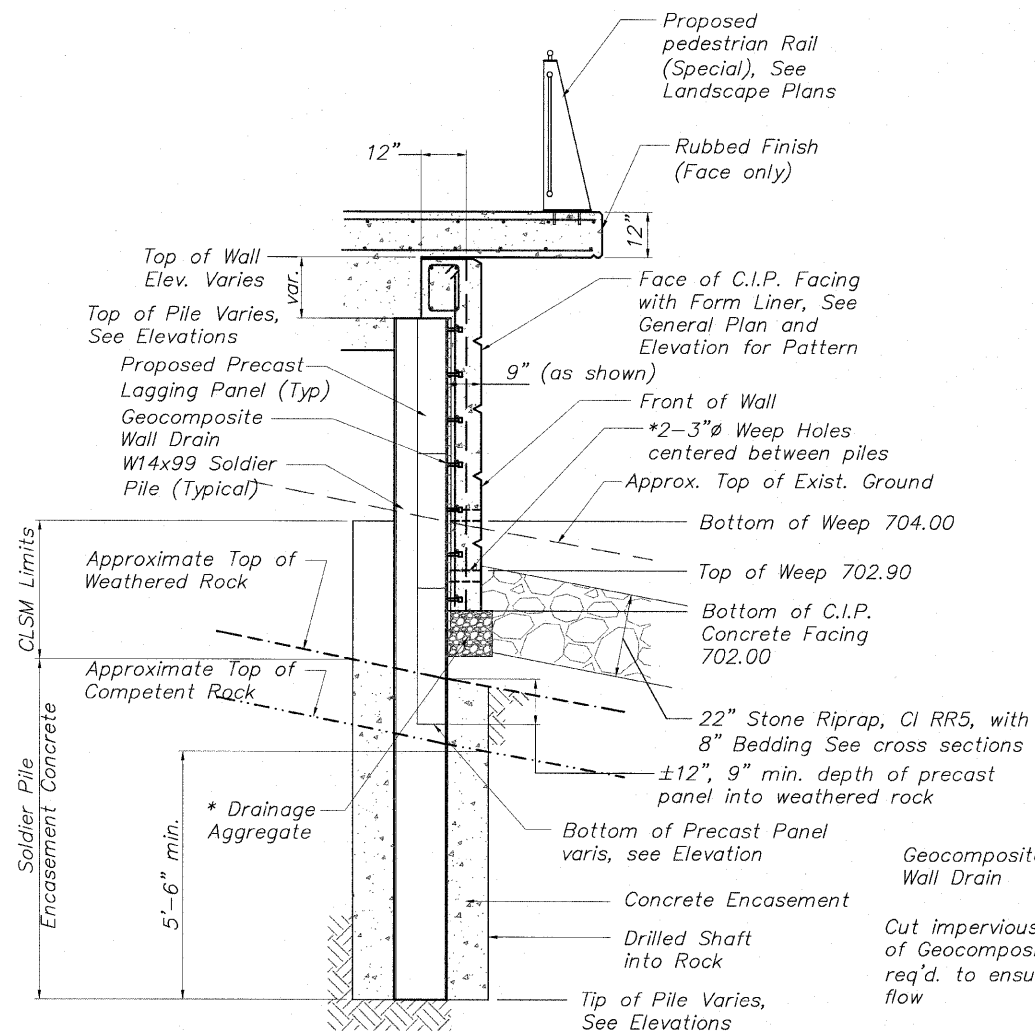
DESIGNED	CTB
CHECKED	AAG
DRAWN	JAW
CHECKED	JWH

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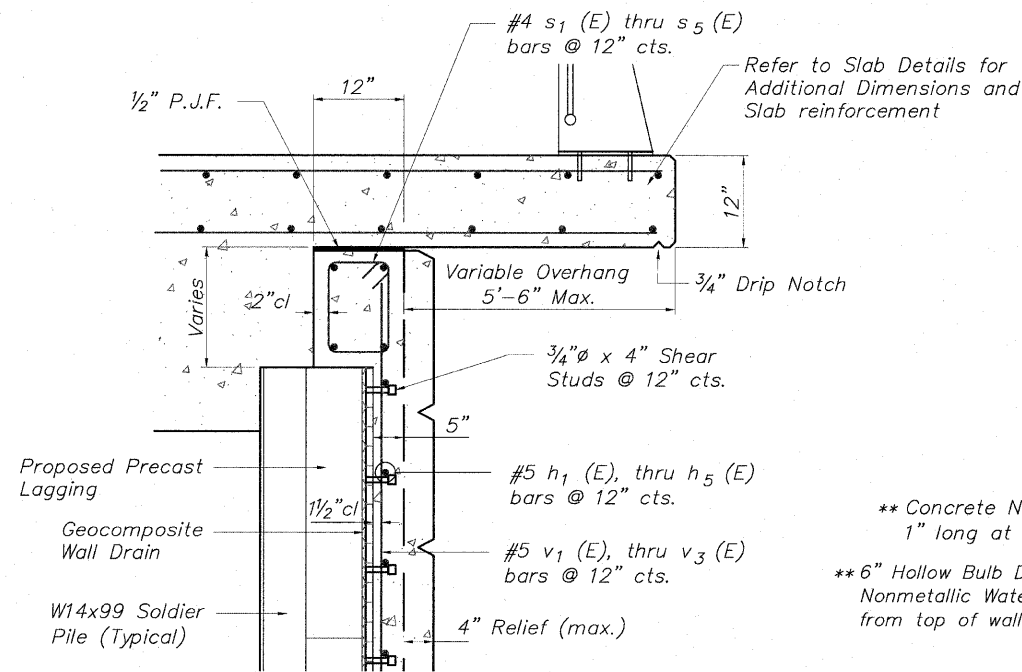
SHEET NO. 3  
7 SHEETS

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FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 85521	

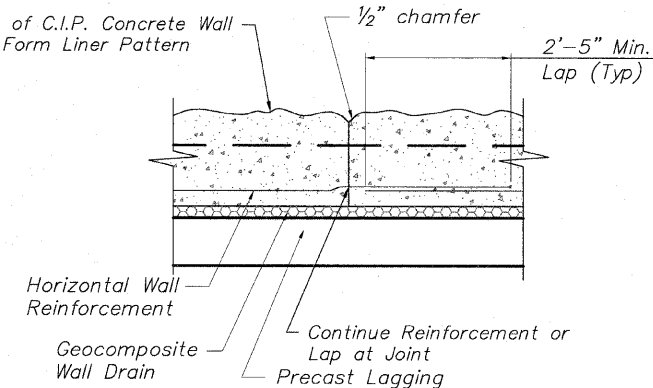
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



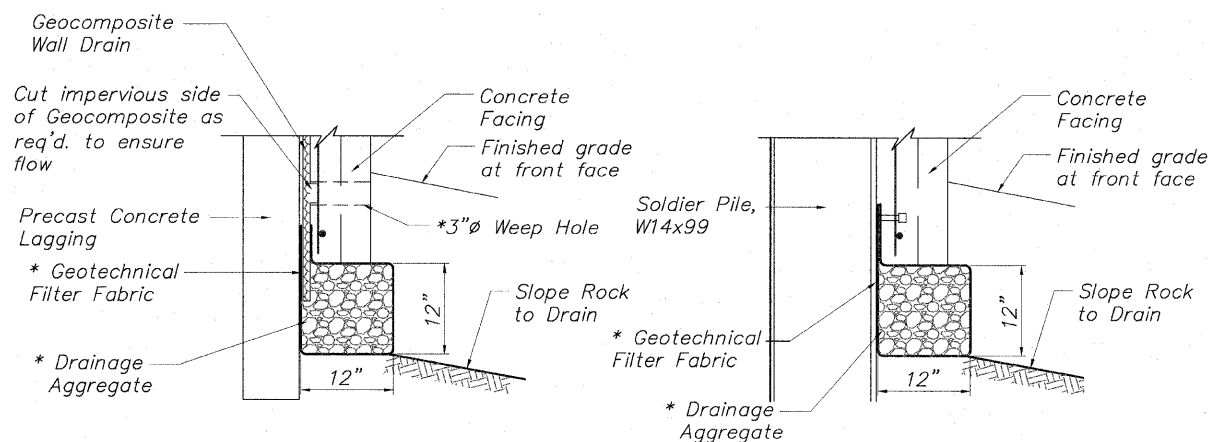
**TYPICAL WALL SECTION**  
Showing Reinforcement



**TYPICAL WALL SECTION**  
Showing Reinforcement

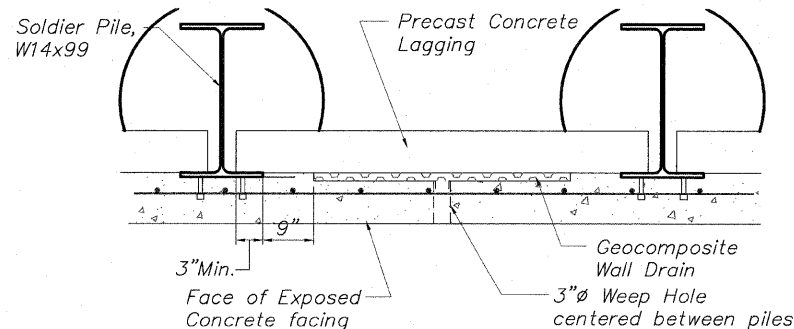


**PLAN VIEW**  
**TYPICAL CONSTRUCTION JOINT DETAIL**  
NO SCALE

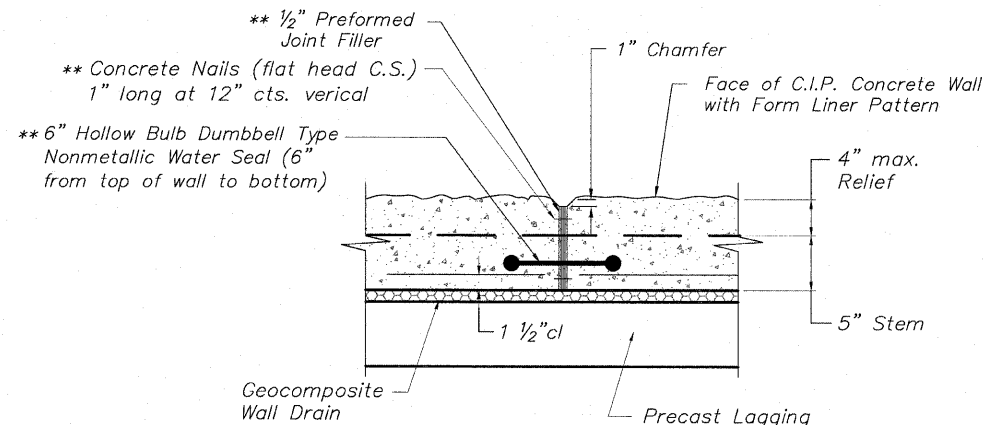


**BETWEEN SOLDIER PILES** \* Included in the cost for Concrete Structures **AT SOLDIER PILES**

**DRAINAGE AGGREGATE DETAIL**

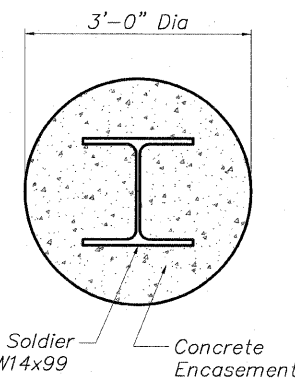


**GEOCOMPOSITE WALL DRAIN DETAIL**

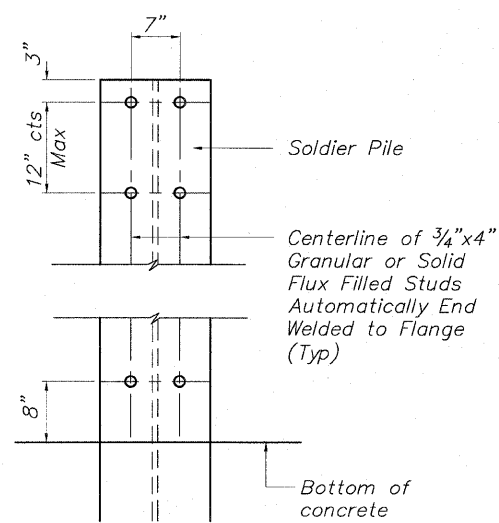


**PLAN VIEW**  
Space Expansion Joints as Shown on Elevation  
\*\* Cost included with Concrete Structures

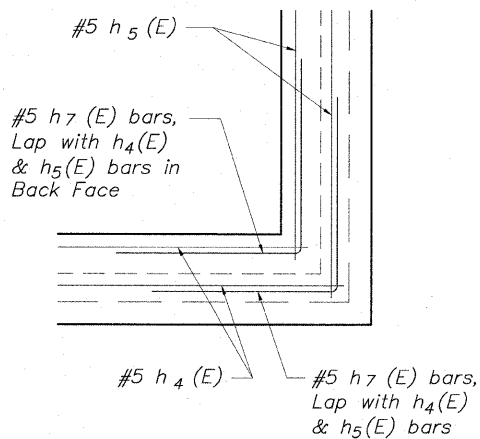
**TYPICAL EXPANSION JOINT DETAIL**  
NO SCALE



**TYPICAL PILE ENCASEMENT SECTION**  
NO SCALE



**STUD SHEAR CONNECTOR LAYOUT**



**CORNER DETAIL**

**MINIMUM BAR LAP**

No. 4 bars	1'-8"
No. 5 bars	2'-2"
No. 6 bars	2'-7"

**SP WALL No. 24 DETAILS**  
**PEDESTRIAN RIVERWALK**  
**ALONG THE ROCK RIVER**  
**WINNEBAGO COUNTY**  
**SECTION NO. 06-00543-00-BT**  
**STATION 211+87.04 TO**  
**STATION 213+18.55**

DESIGNED	JWH
CHECKED	AAG
DRAWN	JAW
CHECKED	JWH

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SHEET NO. 4  
7 SHEETS

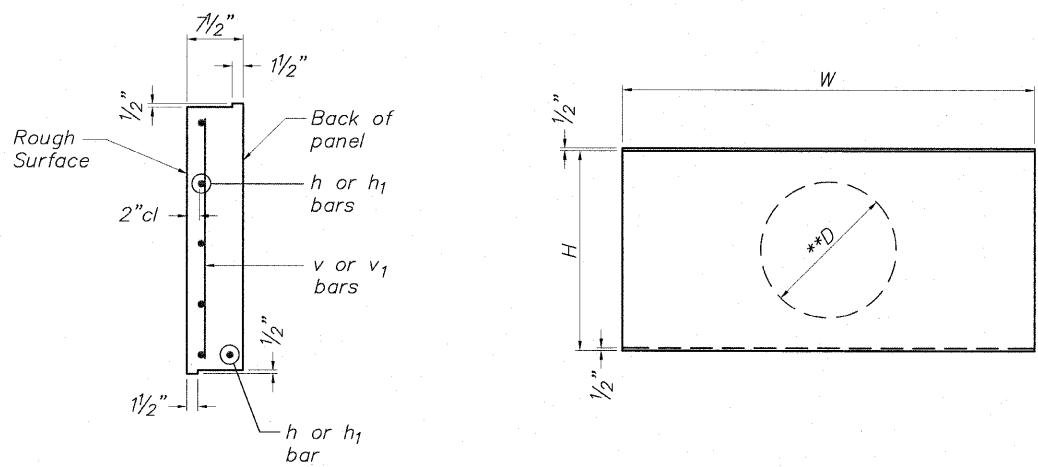
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00543-00-BT	WINNEBAGO	148	102
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 85521	

H:\06\_008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\STRUCTURAL\GPBE\08-008 SP-WALL 24.DWG, DET-24 (3), 10/26/2010 4:16:44 PM, J.T. JWH

**SOLDIER PILE INFORMATION CHART**

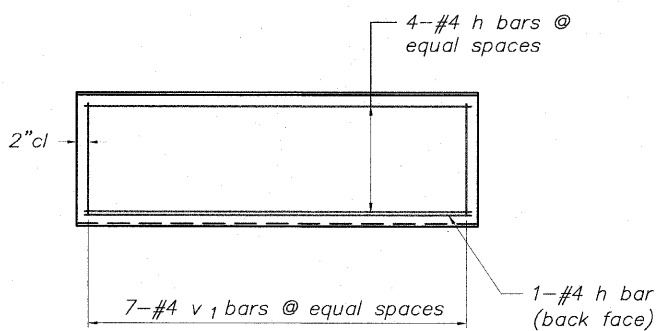
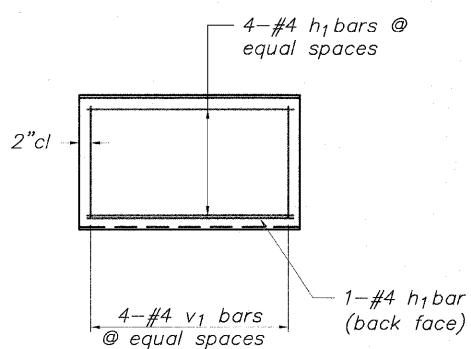
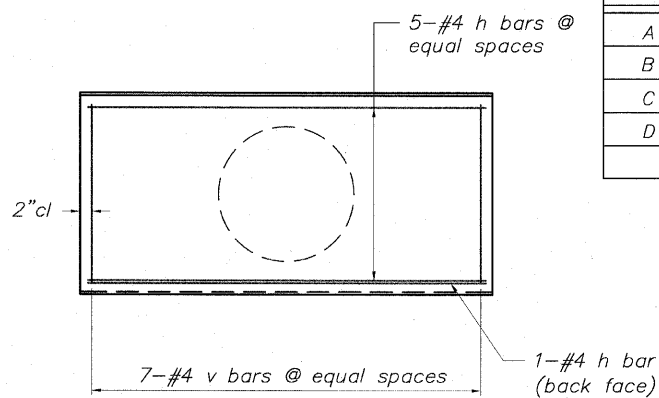
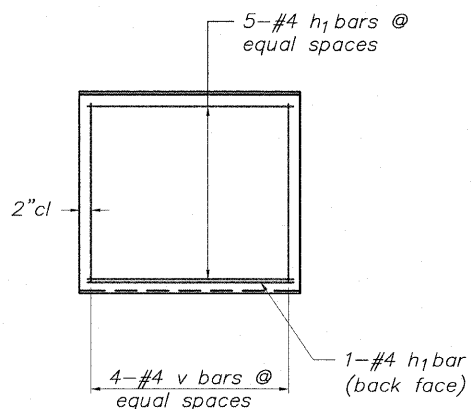
Reference Point	Station	Offset to $\phi$ of Hole	Offset to Center Front Flange of Pile	Pile Section	Top of Pile	Bottom of Pile	Finished Pile Length	Furnished Pile Length	No. Stud Shear Connectors
1	211+87.84	6.45' Rt.	7.05' Rt.	W14x99	708.40	693.40	15.00'	16.00'	12
2	211+91.57	6.28' Rt.	6.87' Rt.	W14x99	708.40	693.40	15.00'	16.00'	12
3	211+95.30	6.11' Rt.	6.70' Rt.	W14x99	708.40	693.40	15.00'	16.00'	12
4	212+01.80	5.81' Rt.	6.40' Rt.	W14x99	708.40	693.40	15.00'	16.00'	12
5	212+08.29	5.51' Rt.	6.10' Rt.	W14x99	708.40	693.40	15.00'	16.00'	12
6	212+14.78	5.21' Rt.	5.80' Rt.	W14x99	708.40	693.40	15.00'	16.00'	12
7	212+21.28	4.91' Rt.	5.50' Rt.	W14x99	708.40	693.40	15.00'	16.00'	12
8	212+27.77	4.61' Rt.	5.20' Rt.	W14x99	708.40	693.40	15.00'	16.00'	12
9	212+34.26	4.31' Rt.	4.90' Rt.	W14x99	707.90	692.90	15.00'	16.00'	10
10	212+35.59	4.37' Rt.	4.96' Rt.	W14x99	707.90	692.90	15.00'	16.00'	10
11	212+42.73	4.41' Rt.	5.00' Rt.	W14x99	707.90	692.90	15.00'	16.00'	10
12	212+49.23	4.41' Rt.	5.00' Rt.	W14x99	707.90	692.90	15.00'	16.00'	10
13	212+55.73	4.41' Rt.	5.00' Rt.	W14x99	707.90	692.90	15.00'	16.00'	10
14	212+62.23	4.41' Rt.	5.00' Rt.	W14x99	707.40	692.40	15.00'	16.00'	10
15	212+68.73	4.41' Rt.	5.00' Rt.	W14x99	707.40	692.40	15.00'	16.00'	10
16	212+75.23	4.41' Rt.	5.00' Rt.	W14x99	707.40	692.40	15.00'	16.00'	10
17	212+81.73	4.41' Rt.	5.00' Rt.	W14x99	707.40	692.40	15.00'	16.00'	10
18	212+88.23	4.41' Rt.	5.00' Rt.	W14x99	707.40	692.40	15.00'	16.00'	10
19	212+94.73	4.41' Rt.	5.00' Rt.	W14x99	707.40	692.40	15.00'	16.00'	10
20	213+01.23	4.41' Rt.	5.00' Rt.	W14x99	707.40	692.40	15.00'	16.00'	10
21	213+04.94	4.41' Rt.	5.00' Rt.	W14x99	706.40	691.40	15.00'	16.00'	8
22	213+11.44	4.41' Rt.	5.00' Rt.	W14x99	706.40	691.40	15.00'	16.00'	8
23	213+17.94	4.41' Rt.	5.00' Rt.	W14x99	706.40	691.40	15.00'	16.00'	8
24	213+17.96	3.21' Rt.	3.21' Rt.	W14x99	706.40	691.40	15.00'	16.00'	8
25	213+17.96	0.50' Lt.	0.50' Lt.	W14x99	706.40	691.40	15.00'	16.00'	8
26	213+17.96	4.21' Lt.	4.21' Lt.	W14x99	706.40	691.40	15.00'	16.00'	8
Totals							390 Ft.	416 Ft.	264 Ea.

\*\* Precast Manufacturer shall supply one(1) "A" panel with D=24" opening for 18" storm sewer as shown. Panel shall be constructed in accordance with ACI Standard opening/penetration detailing and shall be paid for as a typical "A" panel. Contractor is also advised to refer to Seepage Collar in the Special Provisions



**PANEL SCHEDULE**

PANEL	H	W
A	2'-11 3/4"	6'-0"
B	1'-11 3/4"	6'-0"
C	2'-11 3/4"	3'-3"
D	1'-11 3/4"	3'-3"



**PRECAST CONCRETE LAGGING PANEL DETAILS**

**\*BILL OF MATERIAL**

**ONE PANEL A**

Bar	No.	Size	Length	Shape
h	6	#4	5'-8"	—
v	7	#4	2'-8"	—
Concrete Structures			Cu. Yd.	0.41
Reinforcement Bars			Pound	35.2
Panel Area			Sq. Ft.	17.87

**\*BILL OF MATERIAL**

**ONE PANEL B**

Bar	No.	Size	Length	Shape
h	5	#4	5'-8"	—
v1	7	#4	1'-8"	—
Concrete Structures			Cu. Yd.	0.27
Reinforcement Bars			Pound	26.7
Panel Area			Sq. Ft.	11.87

**\*BILL OF MATERIAL**

**ONE PANEL C**

Bar	No.	Size	Length	Shape
h1	6	#4	2'-11"	—
v	4	#4	2'-8"	—
Concrete Structures			Cu. Yd.	0.22
Reinforcement Bars			Pound	18.8
Panel Area			Sq. Ft.	9.68

**\*BILL OF MATERIAL**

**ONE PANEL D**

Bar	No.	Size	Length	Shape
h1	5	#4	2'-11"	—
v1	4	#4	1'-8"	—
Concrete Structures			Cu. Yd.	0.15
Reinforcement Bars			Pound	14.2
Panel Area			Sq. Ft.	6.43

**NOTES:**

1. Precast Concrete Lagging shall be labeled "front" (river side) or "back" (embankment side) at the time of casting by the manufacturer.
2. Precast Panels shall meet the requirements of Section 1042 of the Standard Specifications and shall be paid for at the contract unit price per square foot for Precast Concrete Lagging.
3. Contractor to backfill wall as precast panels are installed or provide blocking detail to Engineer for approval at no additional cost to the contract.

**SP WALL No. 24 DETAILS  
PANEL DETAILS & PILE INFORMATION  
PEDESTRIAN RIVERWALK  
ALONG THE ROCK RIVER  
WINNEBAGO COUNTY  
SECTION NO. 06-00543-00-BT  
STATION 211+87.04 TO  
STATION 213+18.55**

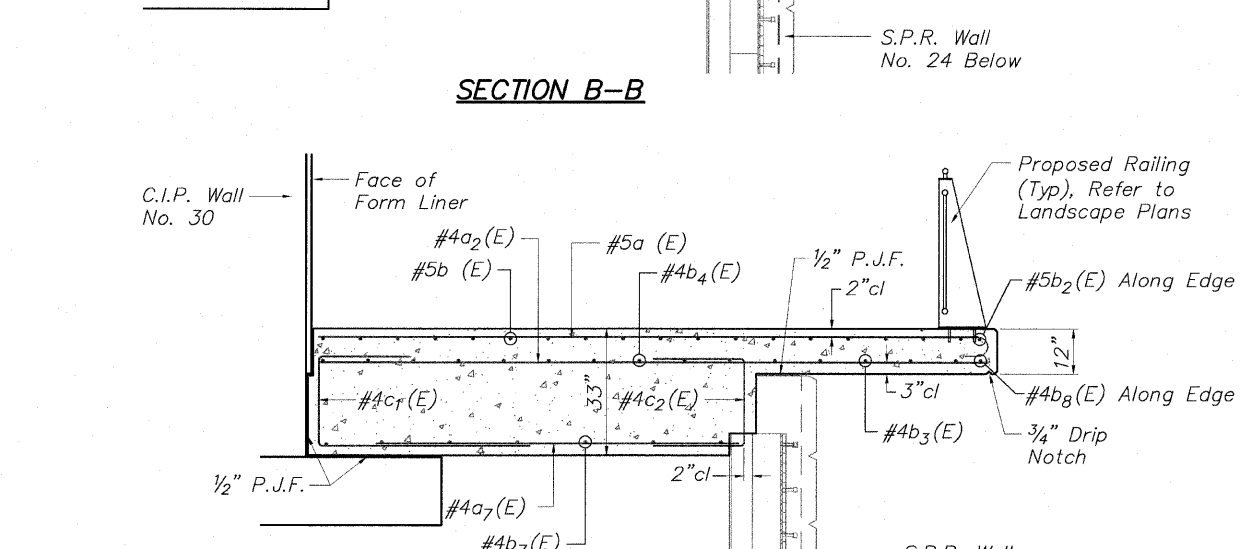
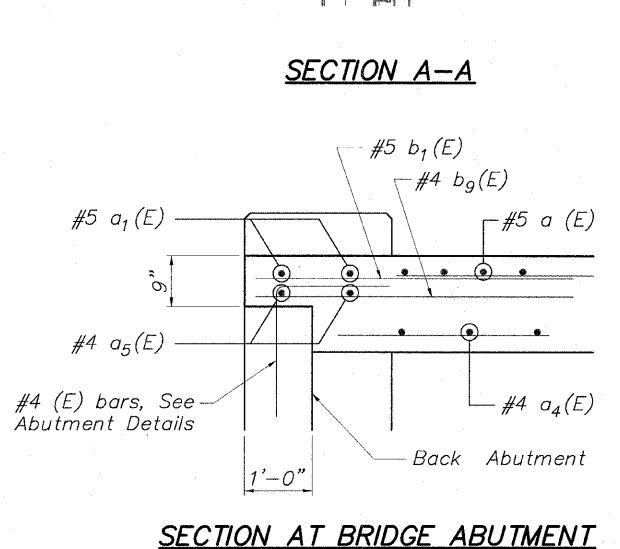
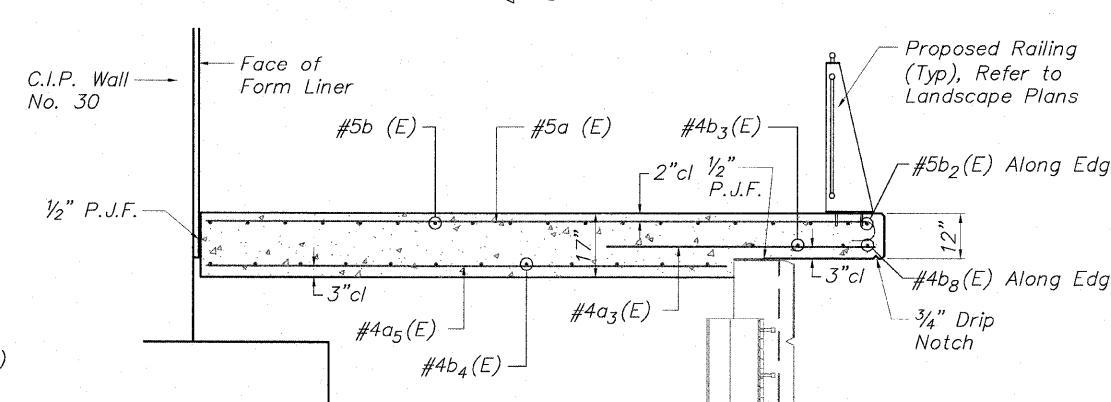
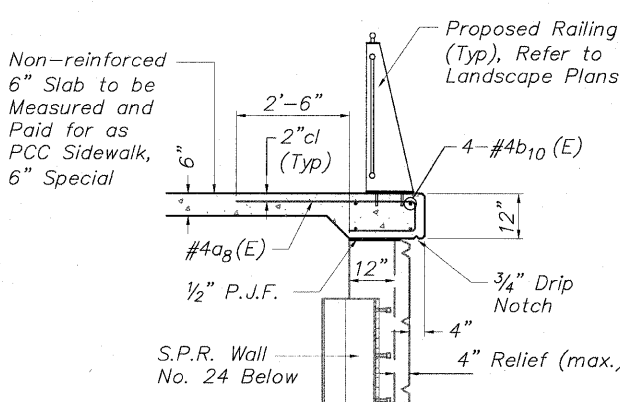
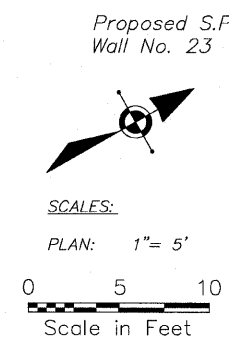
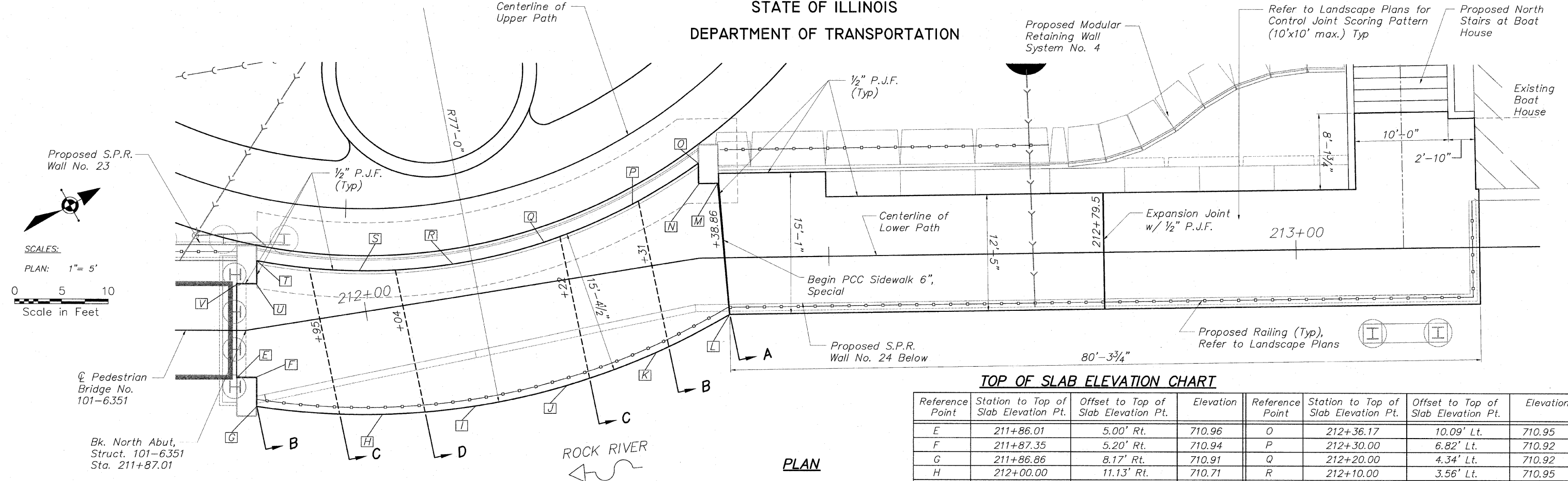
DESIGNED	CTB
CHECKED	AAG
DRAWN	JAW
CHECKED	JWH

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SHEET NO. 5  
7 SHEETS

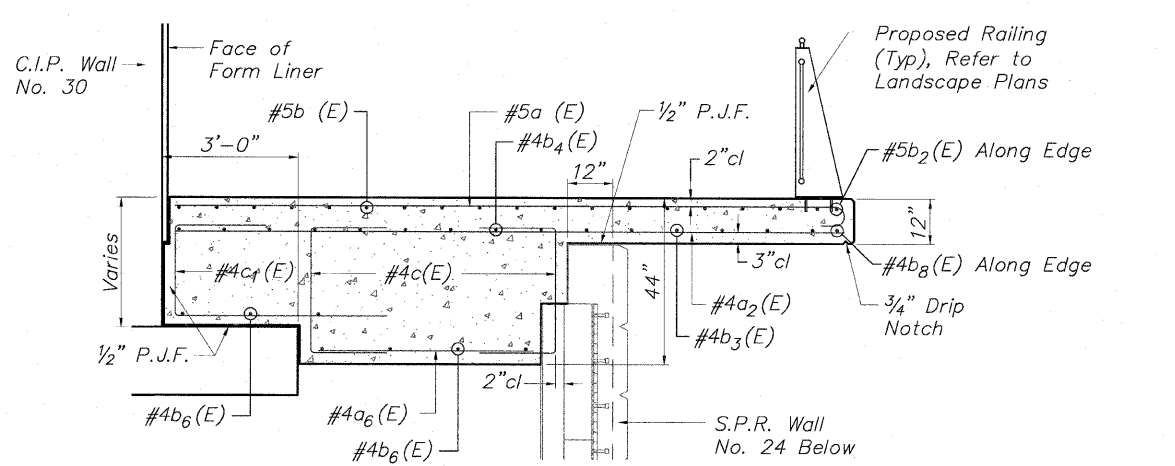
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00543-00-BT	WINNEBAGO	148	103
CONTRACT NO.			85521	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**TOP OF SLAB ELEVATION CHART**

Reference Point	Station to Top of Slab Elevation Pt.	Offset to Top of Slab Elevation Pt.	Elevation	Reference Point	Station to Top of Slab Elevation Pt.	Offset to Top of Slab Elevation Pt.	Elevation
E	211+86.01	5.00' Rt.	710.96	O	212+36.17	10.09' Lt.	710.95
F	211+87.35	5.20' Rt.	710.94	P	212+30.00	6.82' Lt.	710.92
G	211+86.86	8.17' Rt.	710.91	Q	212+20.00	4.34' Lt.	710.92
H	212+00.00	11.13' Rt.	710.71	R	212+10.00	3.56' Lt.	710.95
I	212+10.00	11.81' Rt.	710.64	S	212+00.00	4.42' Lt.	711.02
J	212+20.00	11.19' Rt.	710.61	T	211+89.36	7.21' Lt.	711.06
K	212+30.00	9.23' Rt.	710.60	U	211+88.88	4.76' Lt.	711.04
L	212+39.33	6.08' Rt.	710.57	V	211+86.01	5.00' Lt.	711.06
M	212+38.34	8.00' Lt.	710.85				
N	212+36.17	7.92' Lt.	710.91				



**SLAB DEPTH CHART**

Station Limits	Maximum Overhang	Min. Slab Depth
211+87.01 - 211+95	3'-6"	17"
211+95 - 212+04	5'-0"	35"
212+04 - 212+22	5'-6"	44"
212+22 - 212+31	5'-0"	35"
212+31 - 212+38.86	3'-6"	17"

**SLAB DETAILS LOOKOUT No. 4  
PEDESTRIAN RIVERWALK  
ALONG THE ROCK RIVER  
WINNEBAGO COUNTY  
SECTION NO. 06-00543-00-BT  
STA. 211+87.01 TO STA. 213+19.63**

DESIGNED	CTB
CHECKED	AAG
DRAWN	JAW
CHECKED	JWH

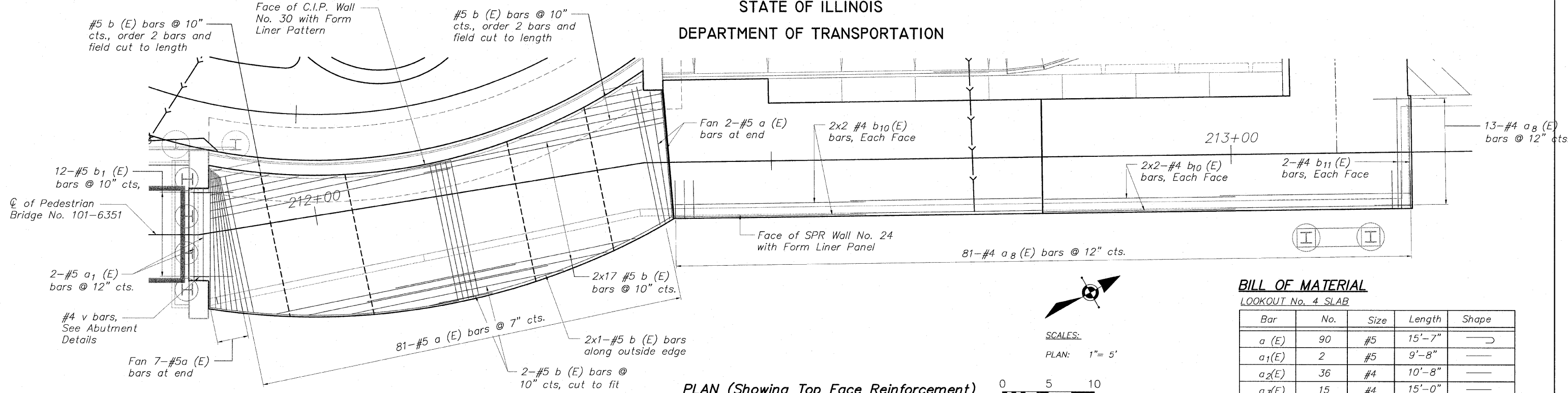
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SHEET NO. 6  
7 SHEETS

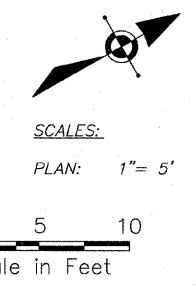
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00543-00-BT	WINNEBAGO	148	104
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	85521	

H:\06-008 RIVERWALK\DESIGN\DRAWINGS\STRUCTURAL\GPBE-06-008 LOOKOUT DET.DWG. PLANDMET LOOKOUT.dwg, 10/26/2010 4:19:16 PM, JH

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



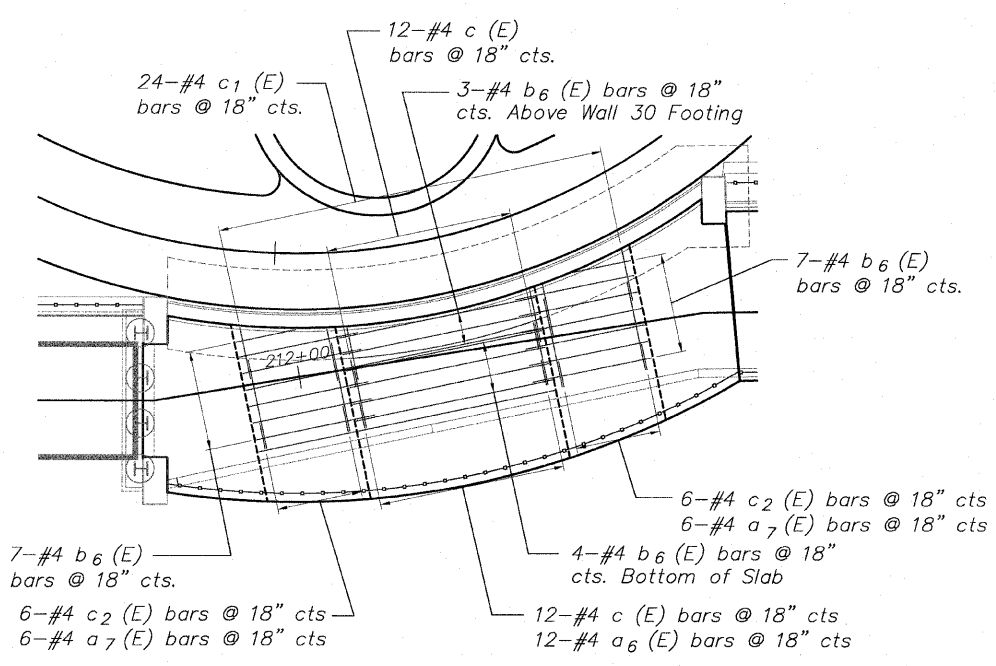
PLAN (Showing Top Face Reinforcement)



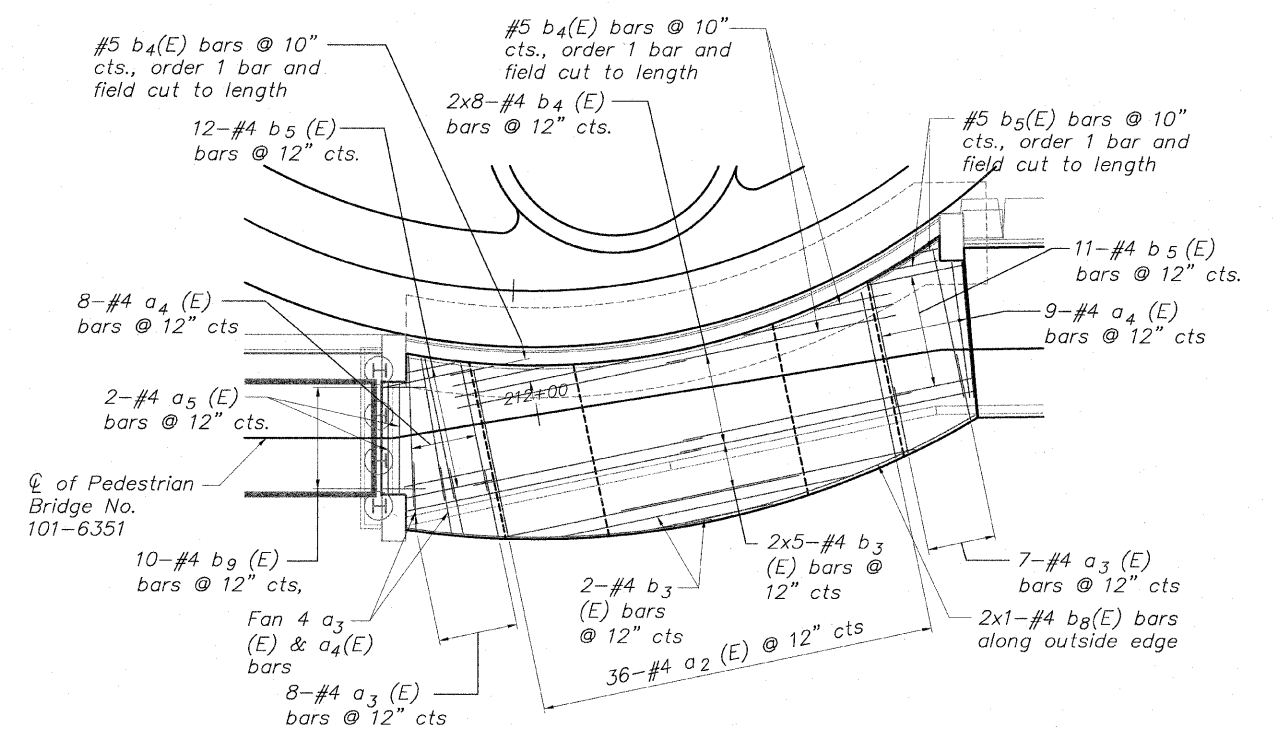
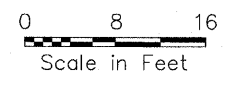
**BILL OF MATERIAL**

LOOKOUT No. 4 SLAB

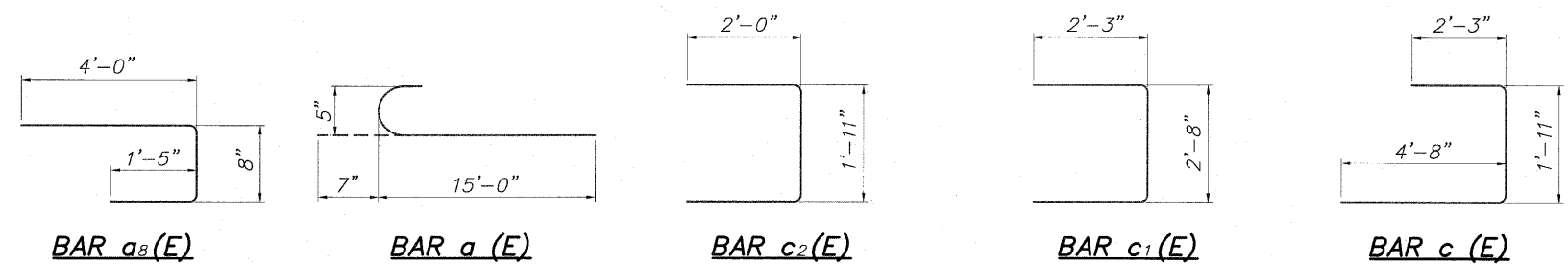
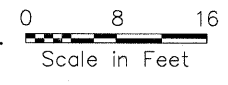
Bar	No.	Size	Length	Shape
a (E)	90	#5	15'-7"	—
a <sub>1</sub> (E)	2	#5	9'-8"	—
a <sub>2</sub> (E)	36	#4	10'-8"	—
a <sub>3</sub> (E)	15	#4	15'-0"	—
a <sub>4</sub> (E)	17	#4	13'-4"	—
a <sub>5</sub> (E)	2	#4	9'-8"	—
a <sub>6</sub> (E)	12	#4	5'-6"	—
a <sub>7</sub> (E)	12	#4	8'-0"	—
a <sub>8</sub> (E)	94	#4	6'-1"	—
b (E)	40	#5	26'-8"	—
b <sub>1</sub> (E)	12	#5	4'-8"	—
b <sub>2</sub> (E)	2	#5	27'-3"	R76'-10"
b <sub>3</sub> (E)	12	#4	26'-6"	—
b <sub>4</sub> (E)	18	#4	20'-8"	—
b <sub>5</sub> (E)	24	#4	7'-9"	—
b <sub>6</sub> (E)	7	#4	17'-8"	—
b <sub>7</sub> (E)	14	#4	10'-8"	—
b <sub>8</sub> (E)	2	#4	27'-0"	R76'-10"
b <sub>9</sub> (E)	10	#4	4'-8"	—
b <sub>10</sub> (E)	8	#4	20'-10"	—
b <sub>11</sub> (E)	4	#4	12'-0"	—
c (E)	24	#4	7'-2"	—
c <sub>1</sub> (E)	24	#4	8'-7"	—
c <sub>2</sub> (E)	12	#4	5'-11"	—
Concrete Structures		Cu. Yd.	63.0	
Reinforcement Bars (Epoxy Coated)		Pound	5,050	
Rubbed Finish		Sq. Ft.	136	



PARTIAL PLAN (Showing Additional Bottom Face Reinforcement)



PARTIAL PLAN (Showing Bottom Face Reinforcement)



**SLAB DETAILS LOOKOUT No. 4  
PEDESTRIAN RIVERWALK  
ALONG THE ROCK RIVER  
WINNEBAGO COUNTY  
SECTION NO. 06-00543-00-BT  
STA. 211+87.01 TO STA. 213+19.63**

DESIGNED	CTB
CHECKED	AAG
DRAWN	JAW
CHECKED	JWH

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Rockford, Illinois 61107-5017  
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SHEET NO. 7  
7 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00543-00-BT	WINNEBAGO	148	105
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 85521	
		FED. AID PROJECT		

H:\05-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\STRUCTURAL\GPBE\05-008 LOOKOUT DET.DWG, DET-24 (5), 10/26/2010 4:19:36 PM, J.L. JWH

BENCHMARK		
NO.	DESCRIPTION	ELEVATION
	North Bonnet Bolt on Fire Hydrant South Of Museum Entrance on the East side of N. Main Street	736.60

EXISTING STRUCTURE: None

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOTAL BILL OF MATERIALS

C.I.P. WALL No. 30

ITEM	UNITS	TOTAL
Structure Excavation	Cu. Yd.	18
Concrete Structures	Cu. Yd.	53.4
Protective Coat	Sq. Yd.	76.4
Porous Granular Embankment	Cu. Yd.	112
Reinforcement Bars (Epoxy Coated)	Pound	4,270
Pipe Underdrain for Structures, 4"	Foot	55
Form Liner Textured Surface	Sq. Ft.	398
Rubbed Finish	Sq. Ft.	235
Staining Concrete Structures	Sq. Yd.	44.2

**CENTERLINE CURVE DATA**  
 $\Delta = 93^{\circ}35'24''$   
 $D = 104^{\circ}10'27''$   
RADIUS = 55.00'  
ARC LENGTH = 104.34'  
TANGENT = 58.56'  
EXTERNAL = 25.34'  
PRC = 304+92.30  
PRC = 305+82.14

**HIGHWAY CLASSIFICATION**

Rockford Pedestrian Riverwalk  
Functional Class: Pedestrian

**DESIGN SPECIFICATIONS**

2002 AASHTO Standard  
Specifications - 17th Edition

**DESIGN STRESSES**

**FIELD UNITS**

$f'_c = 3,500$  psi (Cast-in-place Concrete)  
 $f_y = 60,000$  psi (Reinforcement)

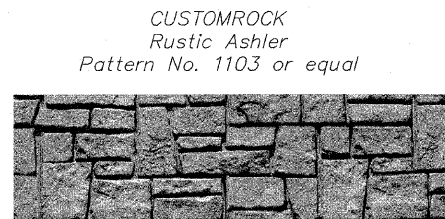
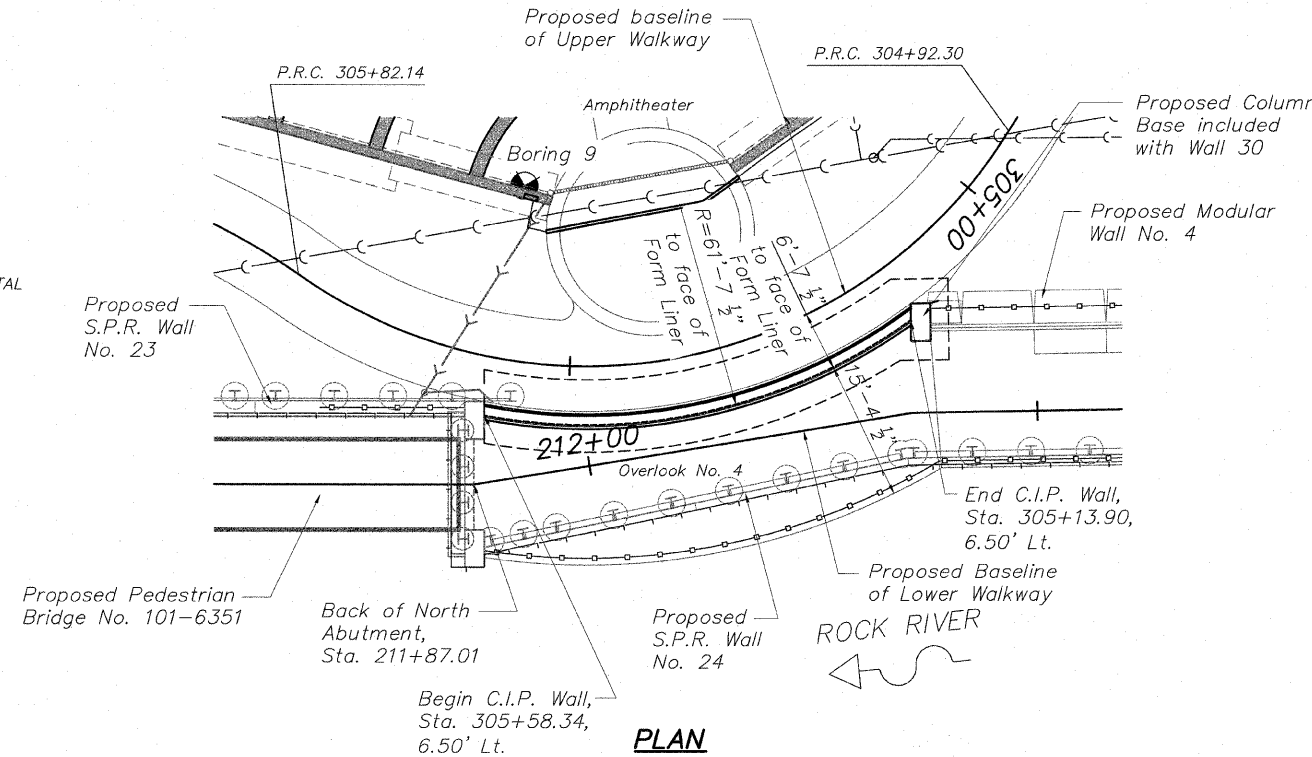
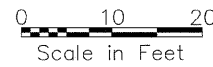
**GENERAL NOTES**

- It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering materials.
- Reinforcement bars shall conform to the requirements of ASTM A706 Gr 60.
- Protective Coat shall be applied to all exposed surfaces of the wall and shall extend 1'-0" min. below finished grade.
- All construction joints shall be bonded.
- All exposed edges shall have a  $\frac{3}{4}$ " x 45° chamfer, except as shown otherwise. Chamfers on vertical edges shall be continued a minimum of one foot below finished ground level.
- Exposed surfaces of concrete shall be given a "rubbed finish" except where form liner is specified.
- Reinforcing bars shall be lapped a minimum as shown on Plans where splices occur. Radius bars shall be factory bent and delivered to the site with appropriate radius. Field bending will only be allowed to achieve form clearances.
- Dewatering, if necessary, is the responsibility of the contractor.
- All work shall conform to Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, latest Edition in Particular, Section 503 for Concrete Structures.
- Concrete shall be Class SI as specified in IDOT Standard Specification Section 1020.
- Allowable soil pressure at toe is to be 1500 PSF. Field verify at time of construction.
- Backfill behind the retaining wall shall be placed to the lines and grades as shown on the plans. The contractor shall take care to ensure use of suitable material and proper compaction of all fill areas. Compaction shall be performed with a loose thickness of no more than 8" and each lift shall be compacted to a density greater than 95% Standard Proctor maximum dry density (ASTM D-698) taking care not to over compact the soil directly behind the wall. Soil moisture shall be within -2% to +3% of optimum. No heavy equipment shall be allowed within 6 feet of the wall during backfilling and compaction. Compaction shall be by hand method, "walk behind" equipment in the areas within 6 feet of the face of the wall.

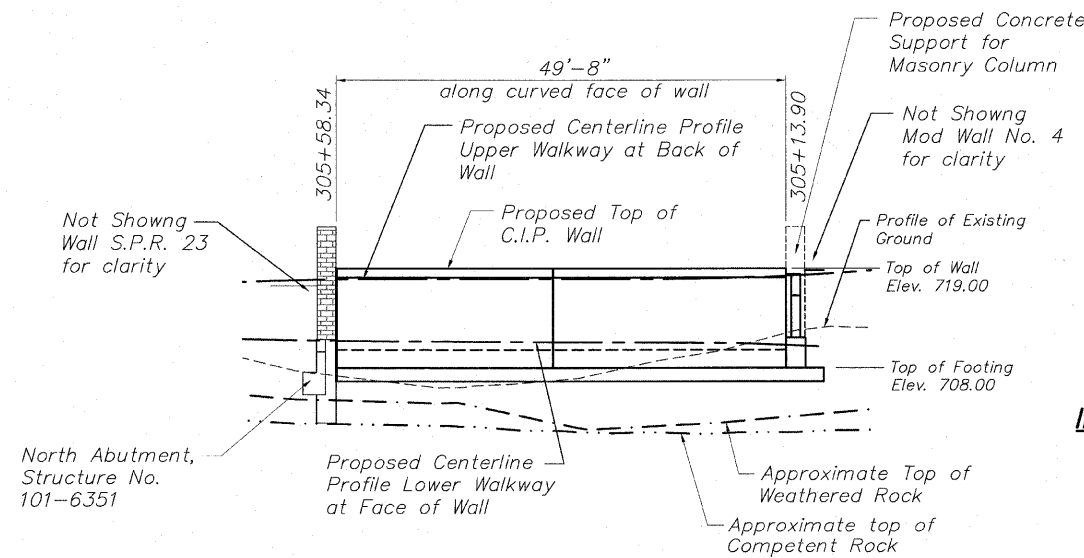
**SCALES:**

PLAN: 1" = 10'

PROFILE: 1" = 10' HORIZONTAL  
1" = 10' VERTICAL

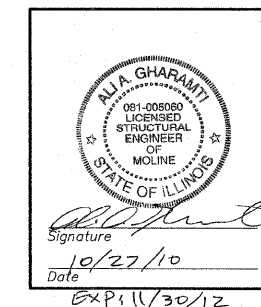


**FORM LINER PATTERN**



**INDEX OF SHEETS-C.I.P. Wall No. 30**

- General Plan and Elevation
- C.I.P. Wall No. 30 Details
- C.I.P. Wall No. 30 Details



**GENERAL PLAN & ELEVATION**  
**C.I.P. WALL No. 30**  
**PEDESTRIAN RIVERWALK**  
**ALONG THE ROCK RIVER**  
**WINNEBAGO COUNTY**  
**SECTION NO. 06-00543-00-BT**  
**STATION 305+58.34 TO**  
**STATION 305+13.90**

DESIGNED	JWH
CHECKED	AAG
DRAWN	JAW
CHECKED	JWH

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SHEET NO. 1  
3 SHEETS

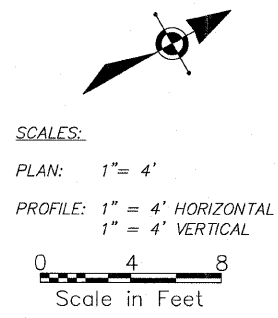
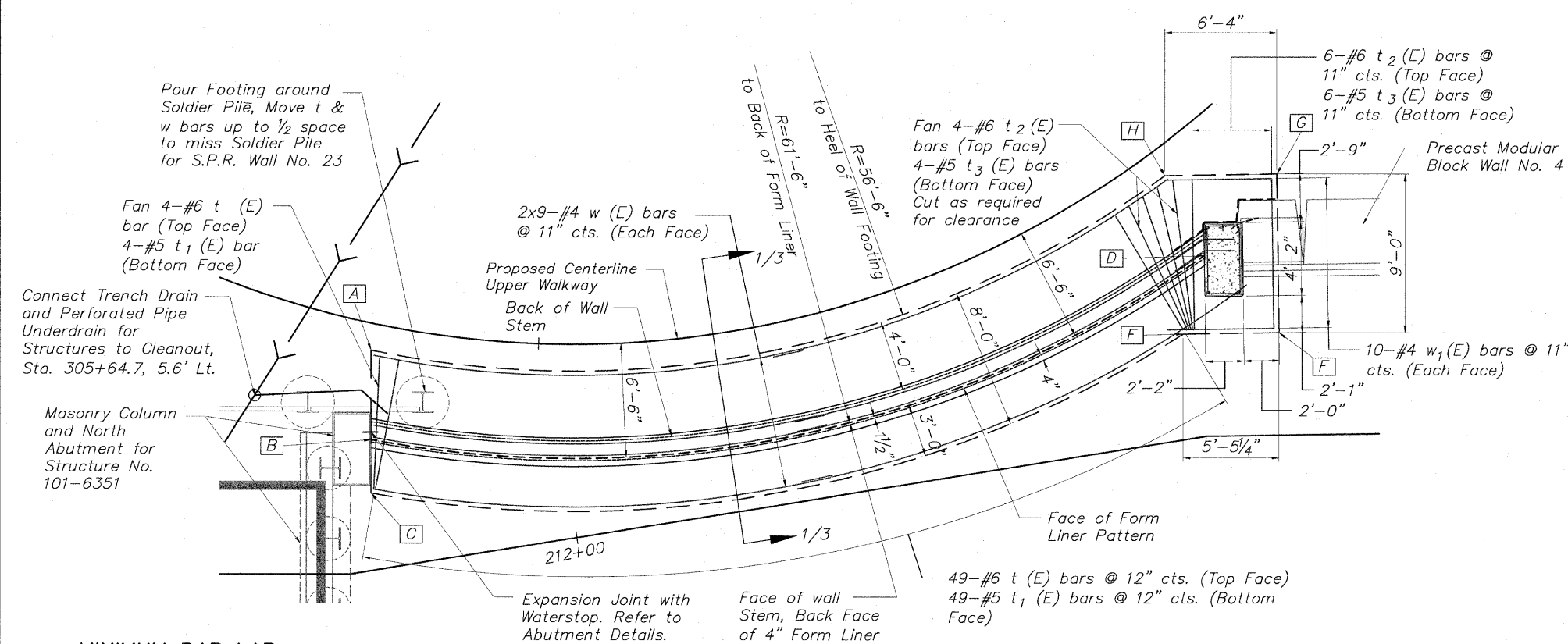
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FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 85521	

C.I.P. 30

06-008 RIVERWALK MUSEUMDRAWINGS\STRUCTURAL\CPBE\08-008 CIP-WALL 30.DWG, GPBE (P316), 10/27/2010 6:55:56 AM, JWH

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

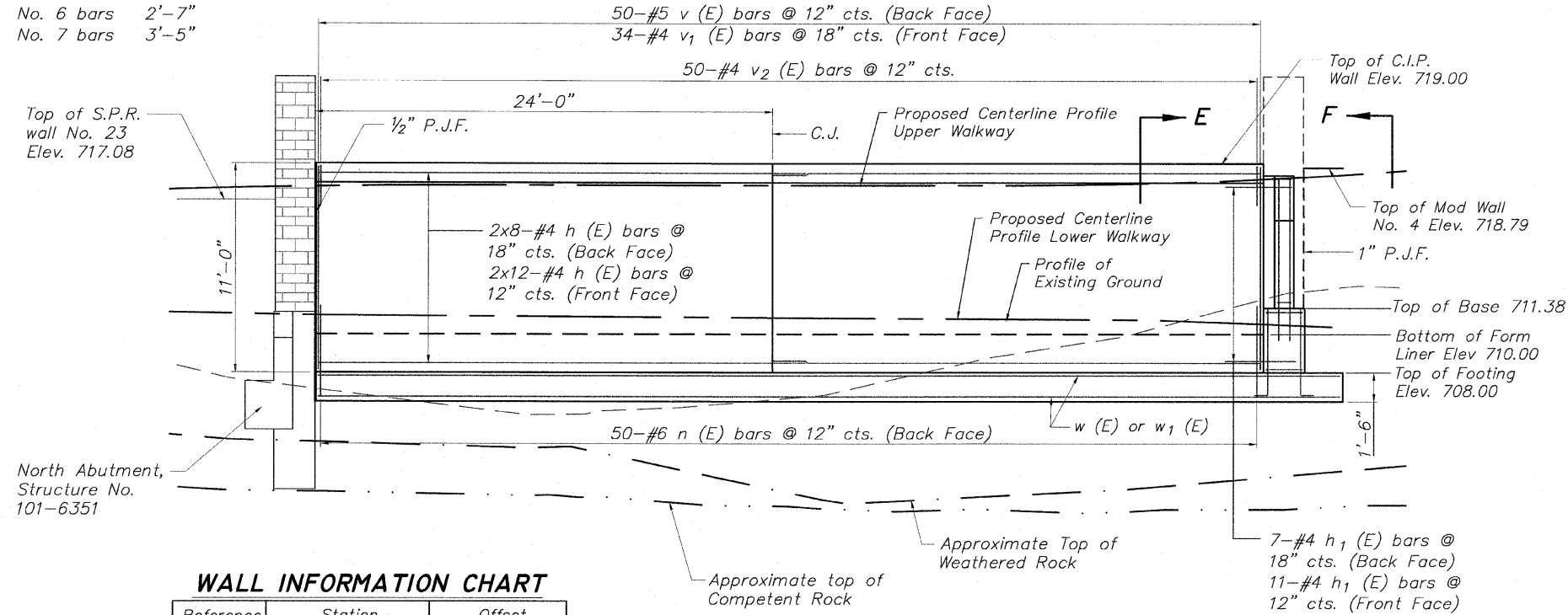
**BILL OF MATERIAL**



**MINIMUM BAR LAP**

No. 4 bars	1'-8"
No. 5 bars	2'-2"
No. 6 bars	2'-7"
No. 7 bars	3'-5"

**PLAN (Showing reinforcement)**

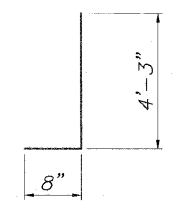


**ELEVATION (Showing Reinforcement)**

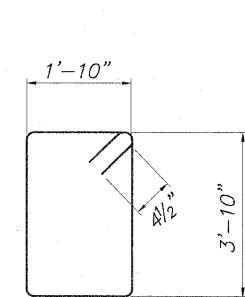
**WALL INFORMATION CHART**

Reference Point	Station	Offset
A	305+59.25	1.50' Lt.
B	305+58.34	6.50' Lt.
C	305+57.86	9.50' Lt.
D	305+13.90	6.50' Lt.
E	305+16.93	9.50' Lt.
F	305+13.16	12.51' Lt.
G	305+08.39	5.42' Lt.
H	305+13.08	1.50' Lt.

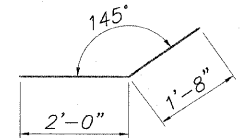
**BAR v2(E)**



**BAR v3(E)**

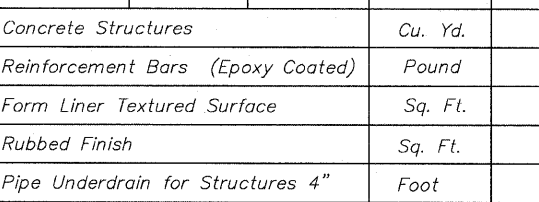


**BAR s (E)**

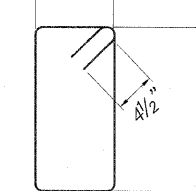


**BAR h1(E)**

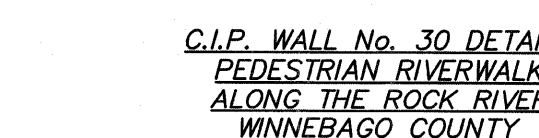
**BAR n (E)**



**BAR s1(E)**



**BAR s2(E)**



Bar	No.	Size	Length	Shape
h (E)	40	#4	26'-6"	R=60'
h1(E)	18	#4	3'-8"	
n (E)	50	#6	5'-4"	
s (E)	4	#5	12'-1"	
s1(E)	5	#5	8'-5"	
s2(E)	6	#5	6'-0"	
v (E)	50	#5	10'-8"	
v1(E)	34	#4	10'-8"	
v2(E)	50	#4	4'-8"	
v3(E)	12	#4	4'-11"	
v4(E)	8	#4	8'-6"	
t (E)	50	#6	7'-6"	
t1(E)	50	#5	7'-6"	
t2(E)	10	#6	8'-6"	
t3(E)	10	#5	8'-6"	
w (E)	36	#4	26'-6"	R=60'
w1(E)	20	#4	6'-1"	

Concrete Structures	Cu. Yd.	53.4
Reinforcement Bars (Epoxy Coated)	Pound	4,270
Form Liner Textured Surface	Sq. Ft.	398
Rubbed Finish	Sq. Ft.	235
Pipe Underdrain for Structures 4"	Foot	55

**C.I.P. WALL No. 30 DETAILS  
PEDESTRIAN RIVERWALK  
ALONG THE ROCK RIVER  
WINNEBAGO COUNTY  
SECTION NO. 06-00543-00-BT  
STATION 305+58.34 TO  
STATION 305+13.90**

DESIGNED	JWH
CHECKED	AAG
DRAWN	JAW
CHECKED	JWH

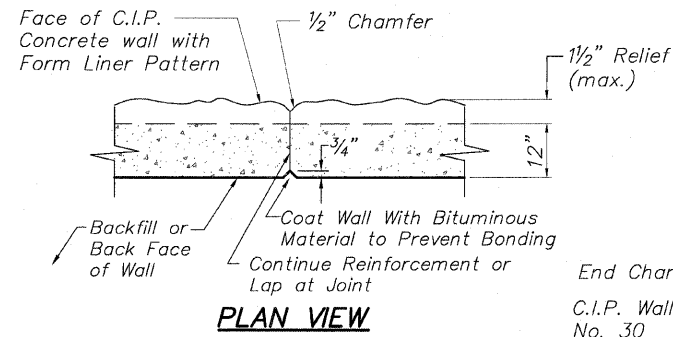
**McClure**  
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SHEET NO. 2  
3 SHEETS

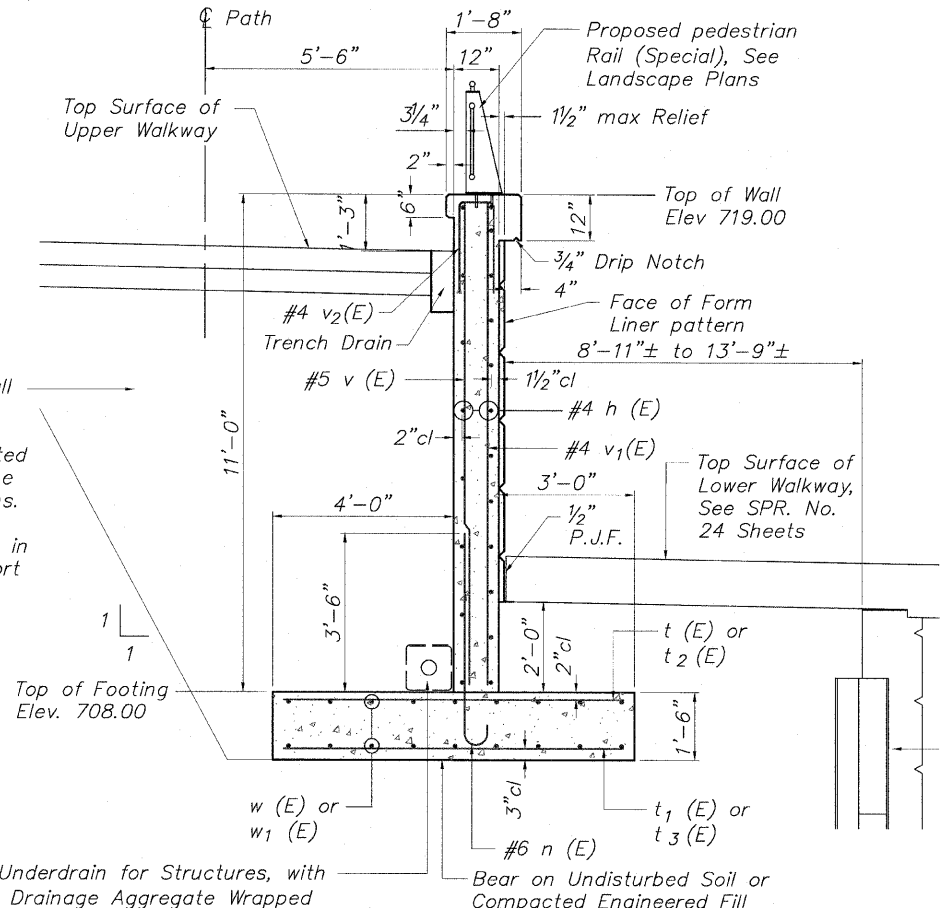
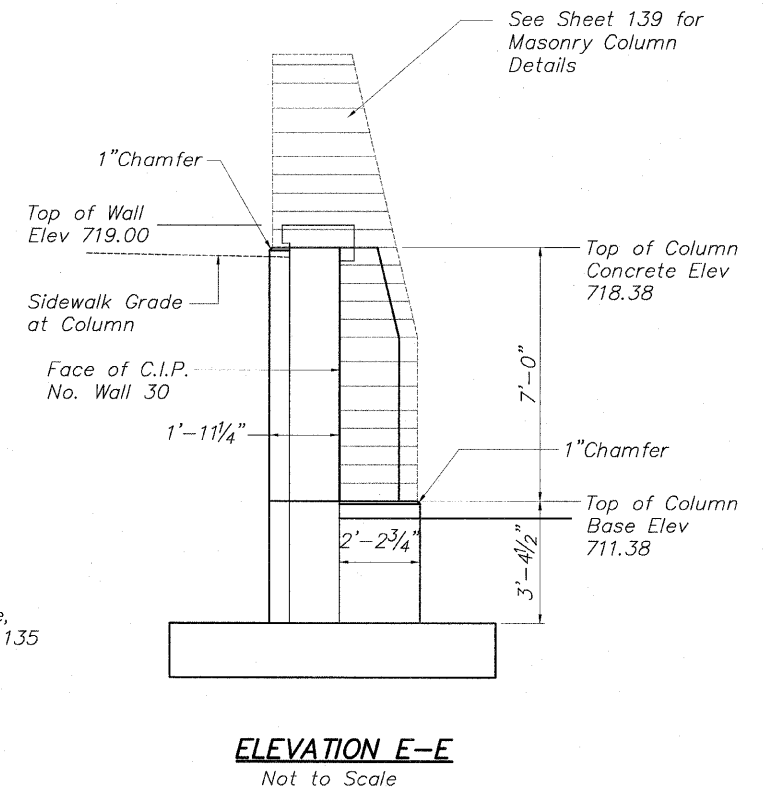
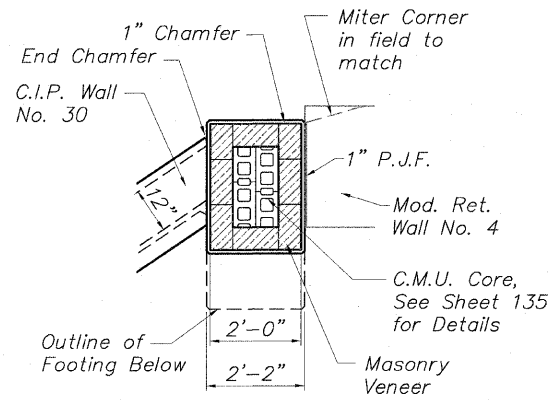
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	06-00543-00-BT	WINNEBAGO	148	107
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 85521	
		FED. AID PROJECT		

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**TYPICAL CONTROL JOINT DETAIL**  
Not to Scale



C.I.P. Wall No. 30 shall be backfilled with granular backfill material and compacted in accordance with the Standard Specifications. If Native sand and gravel material shown in the Geotechnical Report are not satisfactory, then Porous Granular Embankment will be used and paid for.

\*\*Geotechnical Fabric and Drainage Aggregate included in the cost for Pipe Underdrains for Structures

\*\*Pipe Underdrain for Structures, with 12"x12" Drainage Aggregate Wrapped with Geotechnical Filter Fabric. Run length of retaining wall. Connect to cleanout with 6"x4" PVC Wye at Sta. 305+64.7, 5.6' Lt.

Wrap back of joint between Column and MRW No. 4 with Waterproof Membrane, bottom to top. Cost included in cost for Concrete Structures

12-#4 v3 (E) bars Spaced as shown

7-#4 h1 (E) bars @ 18" cts, (Back Face)

11-#4 h1 (E) bars @ 12" cts, (Front Face)

#5 s (E) bars @ 12" cts

2" Plain Concrete

Concrete Core

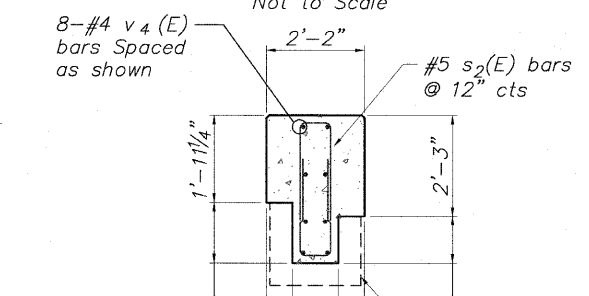
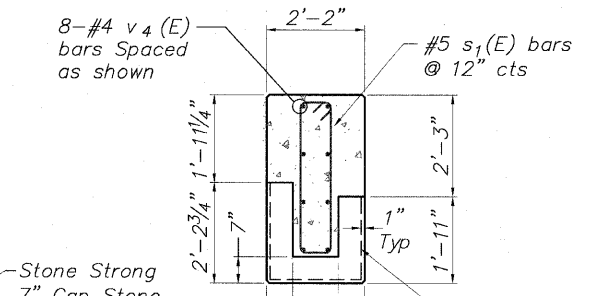
Masonry Veneer

**SECTION A-A**  
Not to Scale

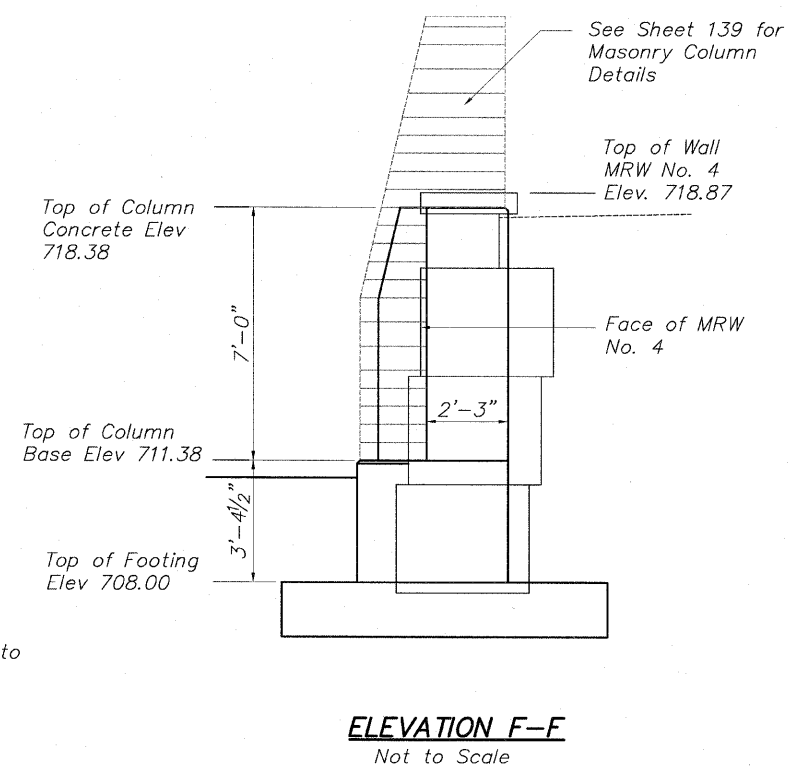
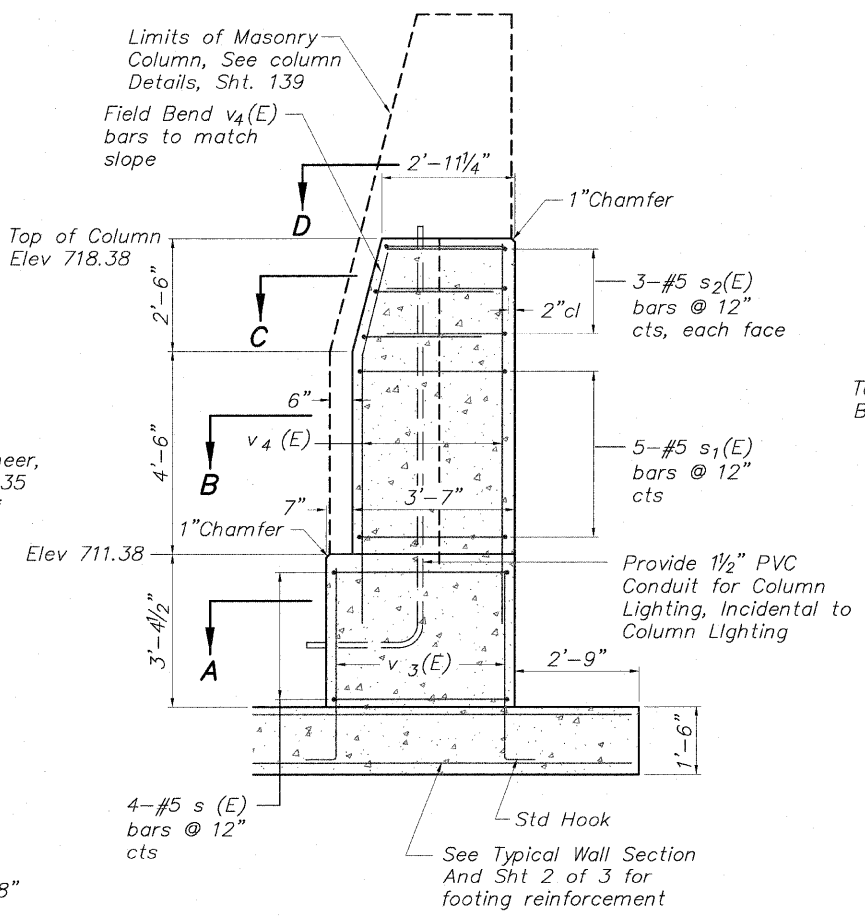
\* Note:

The contractor shall verify dimensions of Masonry Units and Veneer shown on the Column Details prior to forming the veneer ledge or ordering reinforcing. Inform the Engineer of any changes necessary to achieve a snug fit between the Masonry Units and the adjacent walls.

**1 TYPICAL WALL SECTION**  
Not to Scale



**SECTION C-C**  
Not to Scale



**C.I.P. WALL No. 30 DETAILS  
PEDESTRIAN RIVERWALK  
ALONG THE ROCK RIVER  
WINNEBAGO COUNTY  
SECTION NO. 06-00543-00-BT  
STATION 305+58.34 TO  
STATION 305+13.90**

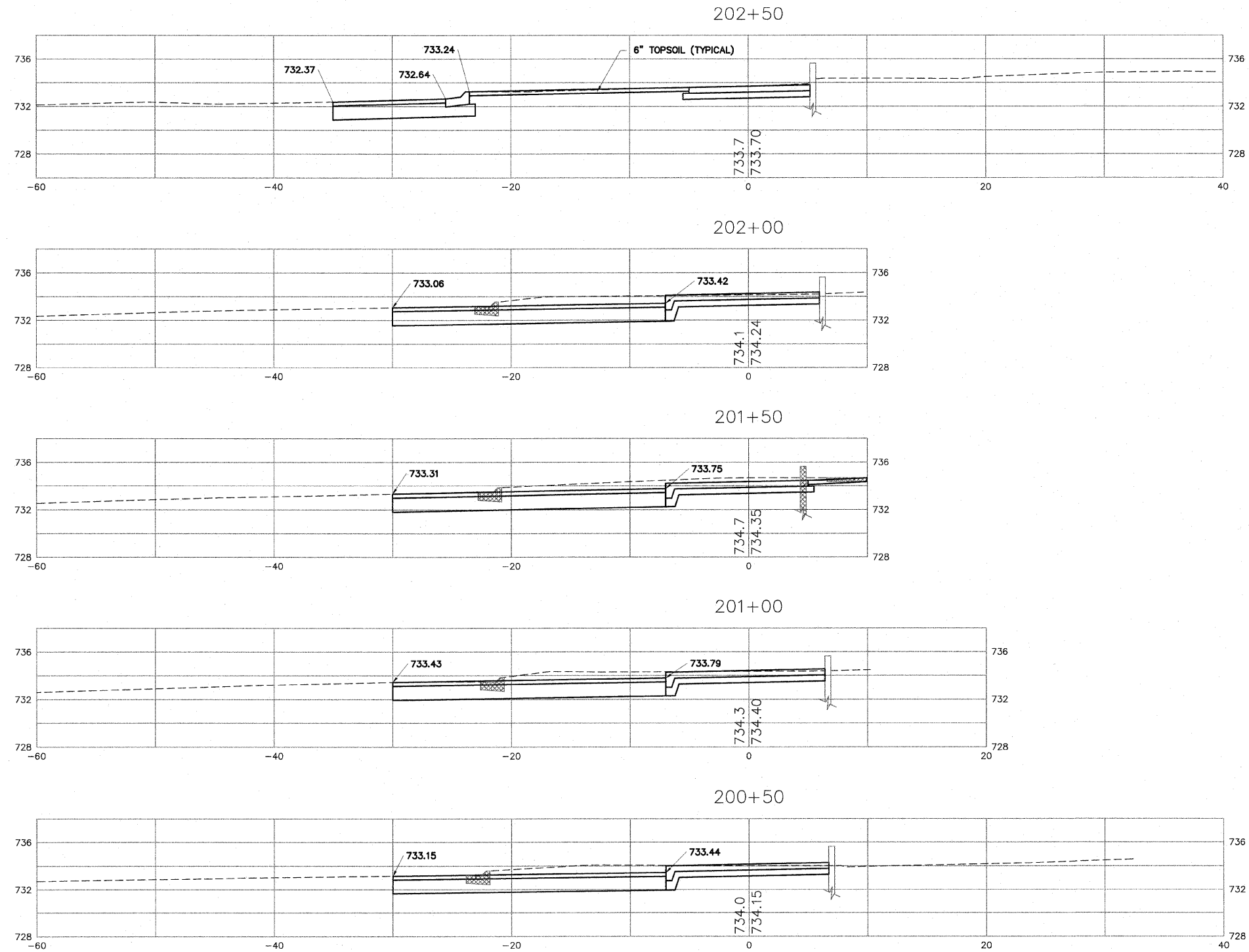
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CHECKED	AAG
DRAWN	JAW
CHECKED	JMH

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SHEET NO. 3  
3 SHEETS

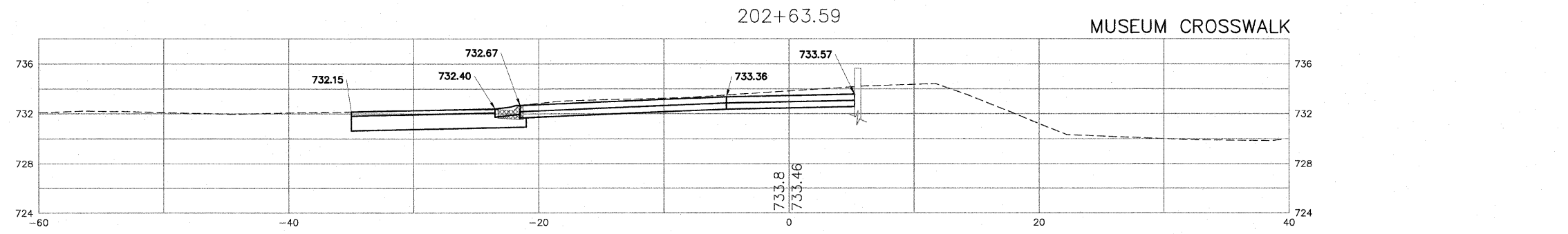
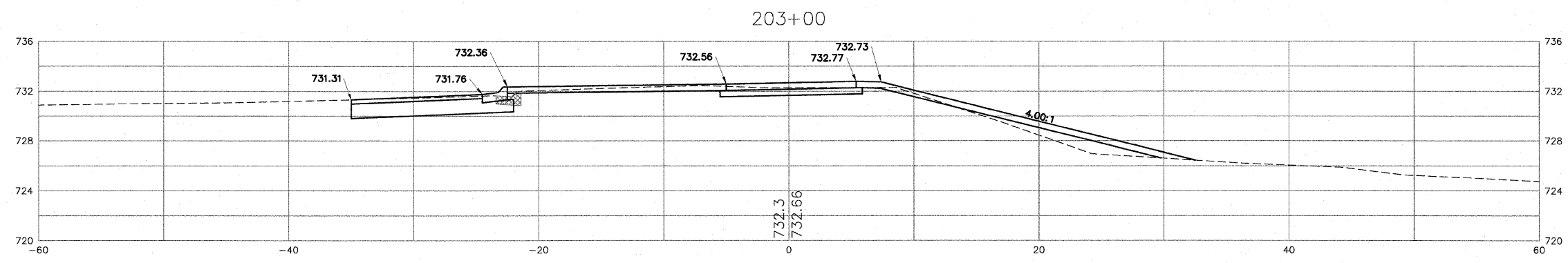
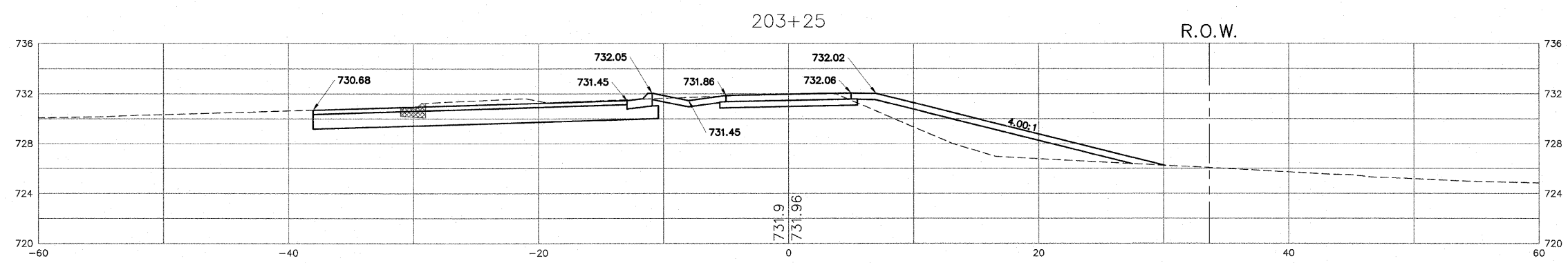
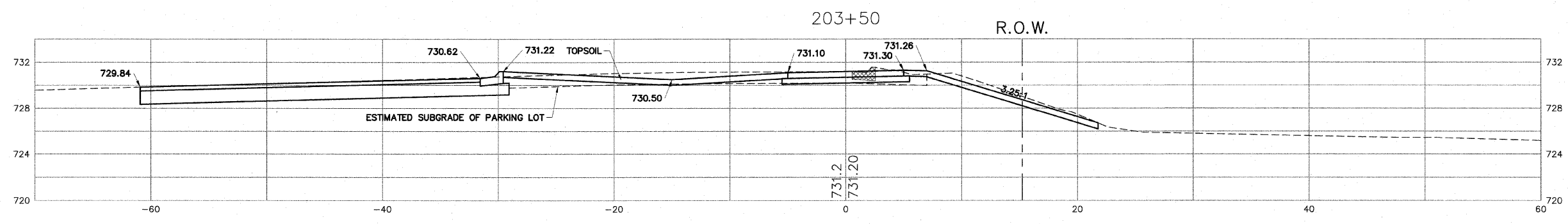
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CONTRACT NO.			85521	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





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SHEET REVIEW	
AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

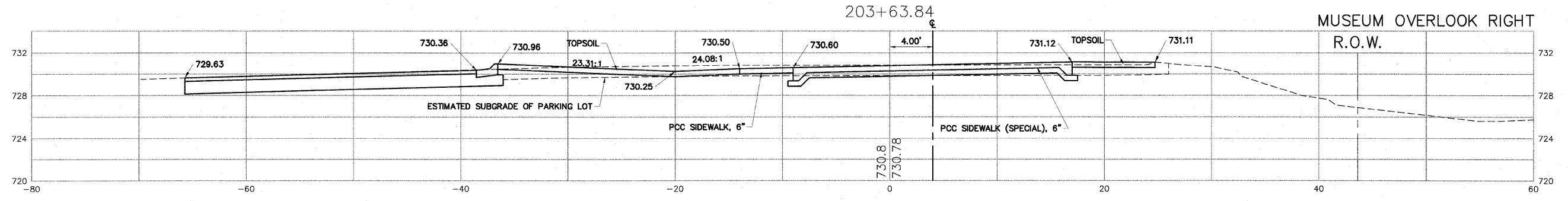
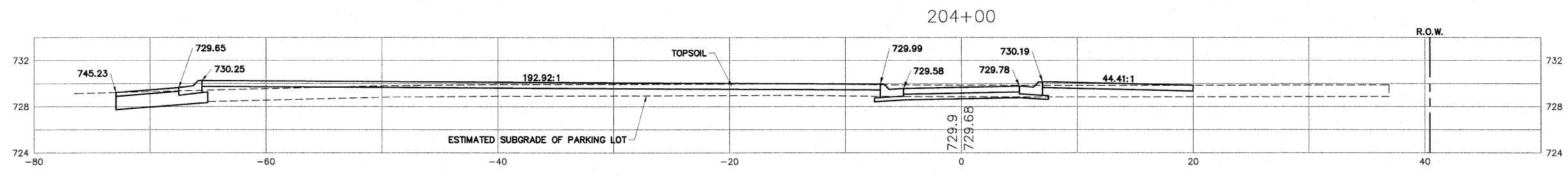
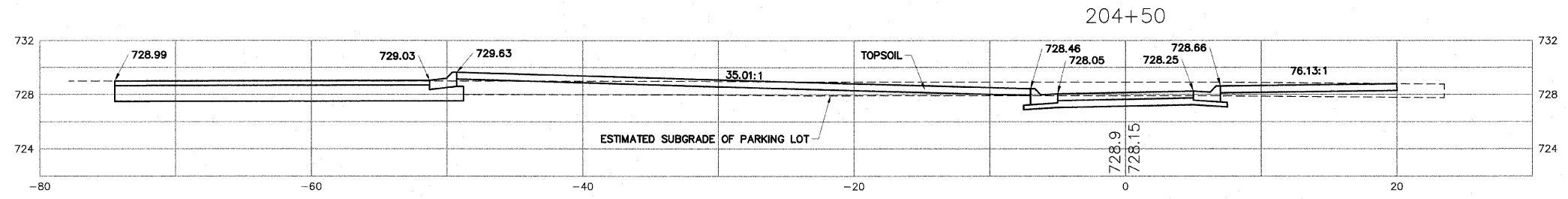
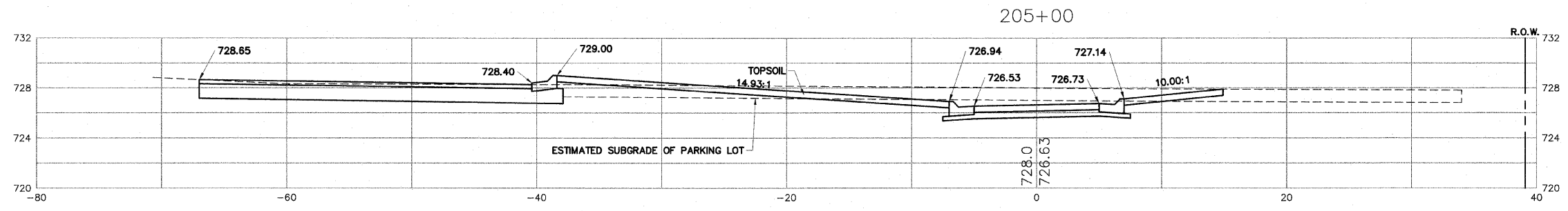
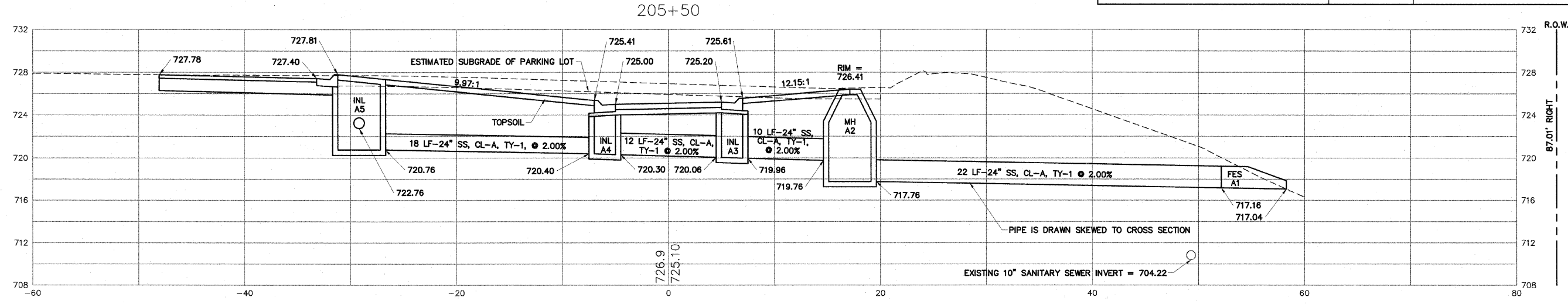
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**CROSS SECTIONS - 202+63.59 TO 203+50**  
RIVERWALK MUSEUM CAMPUS  
711 NORTH MAIN STREET  
ROCKFORD, IL

FILE: H:\108-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG  
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SHEET NO.  
**110**  
OF  
**148**



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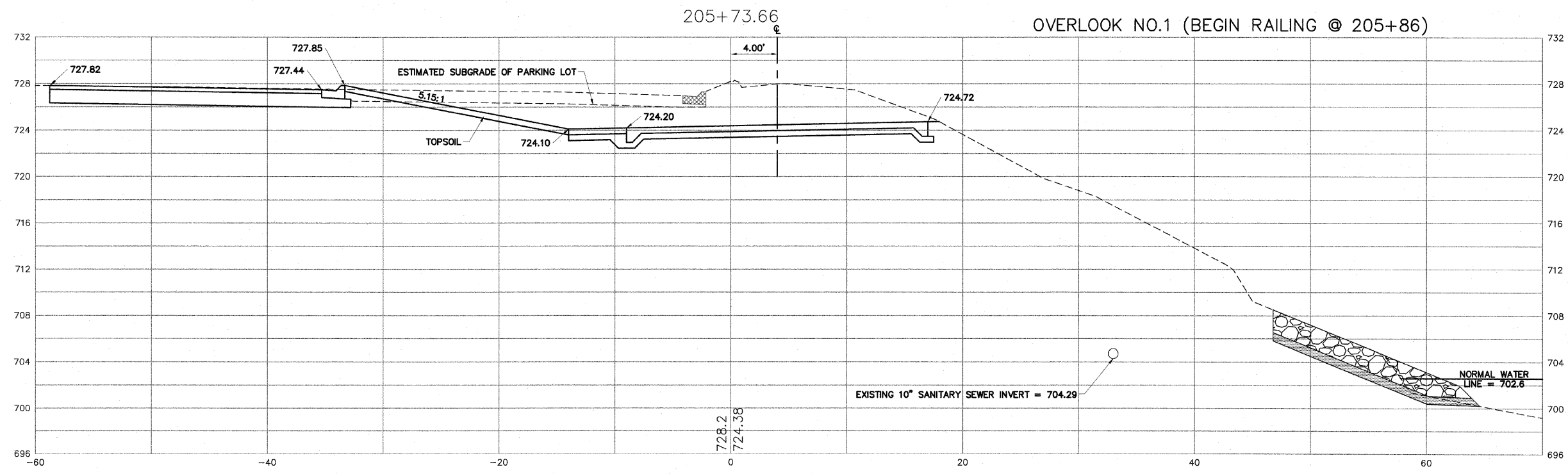
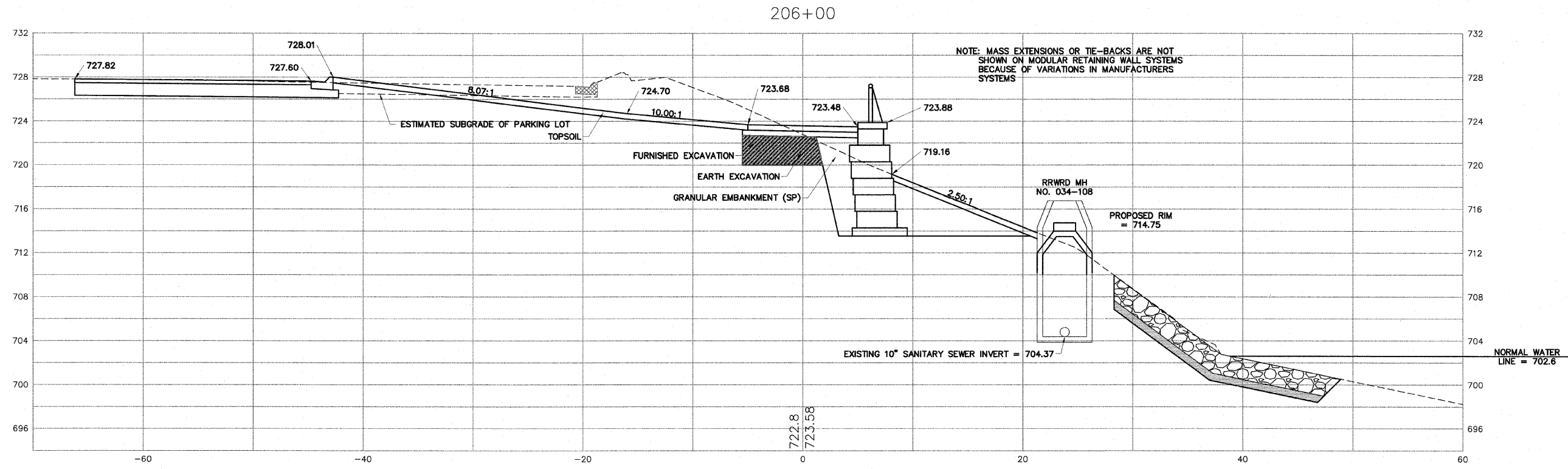
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AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

SCALE: Hor. 1"=5' Ver. 1"=5'
DRAWN BY: MS
CHECKED BY: JWH
DATE: AUGUST 13, 2010

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**CROSS SECTIONS - 203+63.84 TO 205+50**  
RIVERWALK MUSEUM CAMPUS  
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FILE:H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG  
JOB:04-28-10-008



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SHEET REVIEW	
AGENCY	DATE

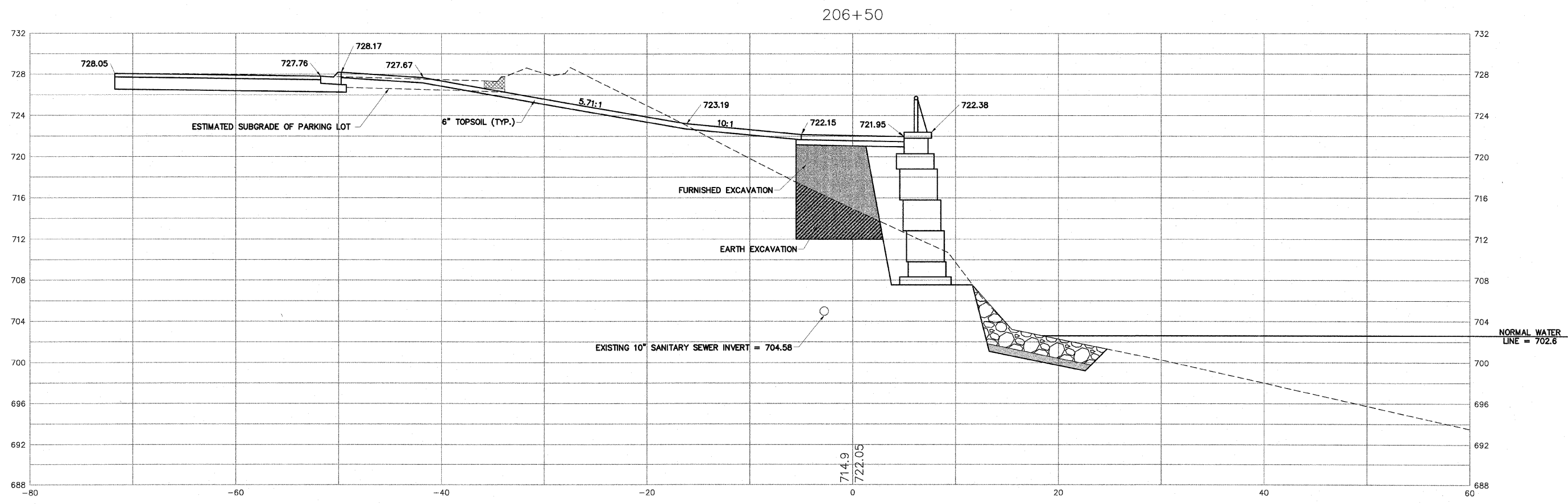
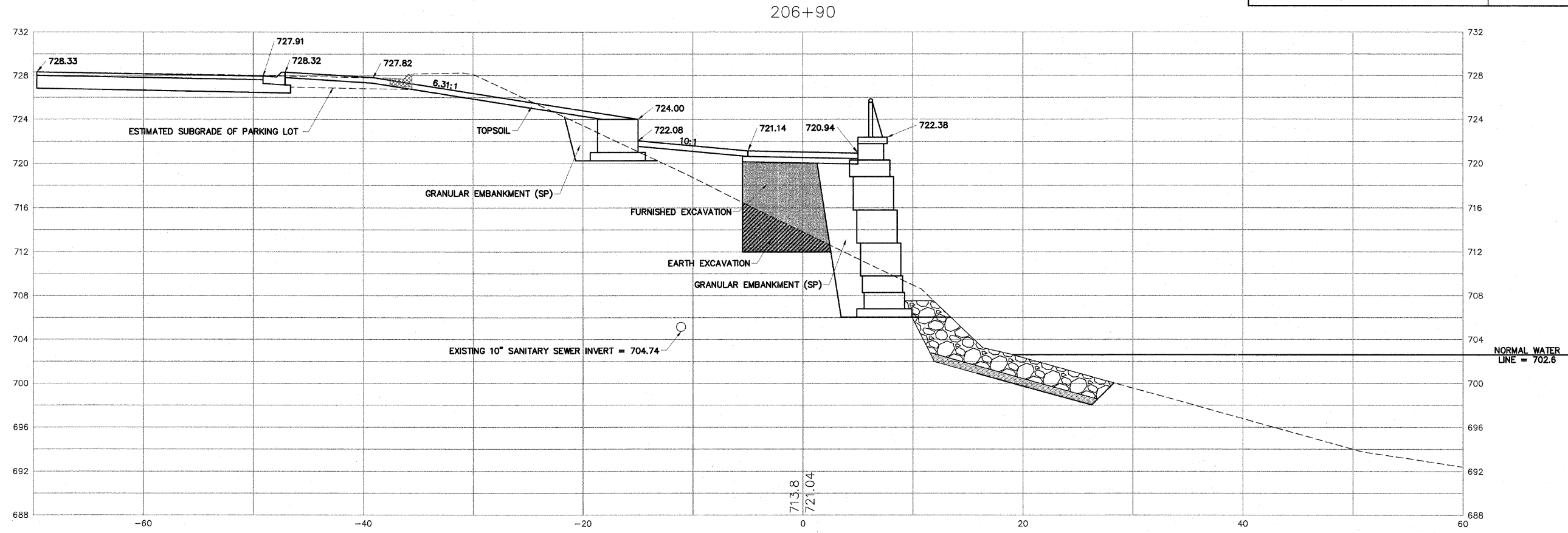
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NO.	ITEM	DATE

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DATE: AUGUST 13, 2010

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FILE: H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG	JOB: 04-28-10-008

SHEET NO.
112
OF
148



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AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

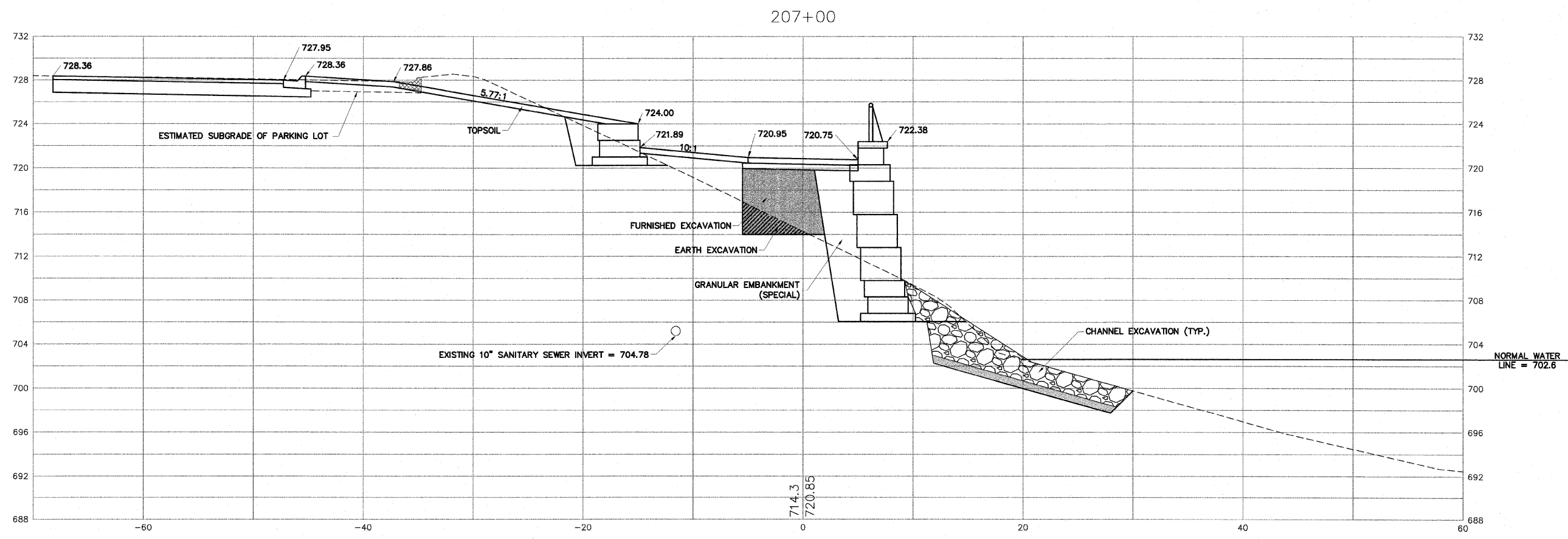
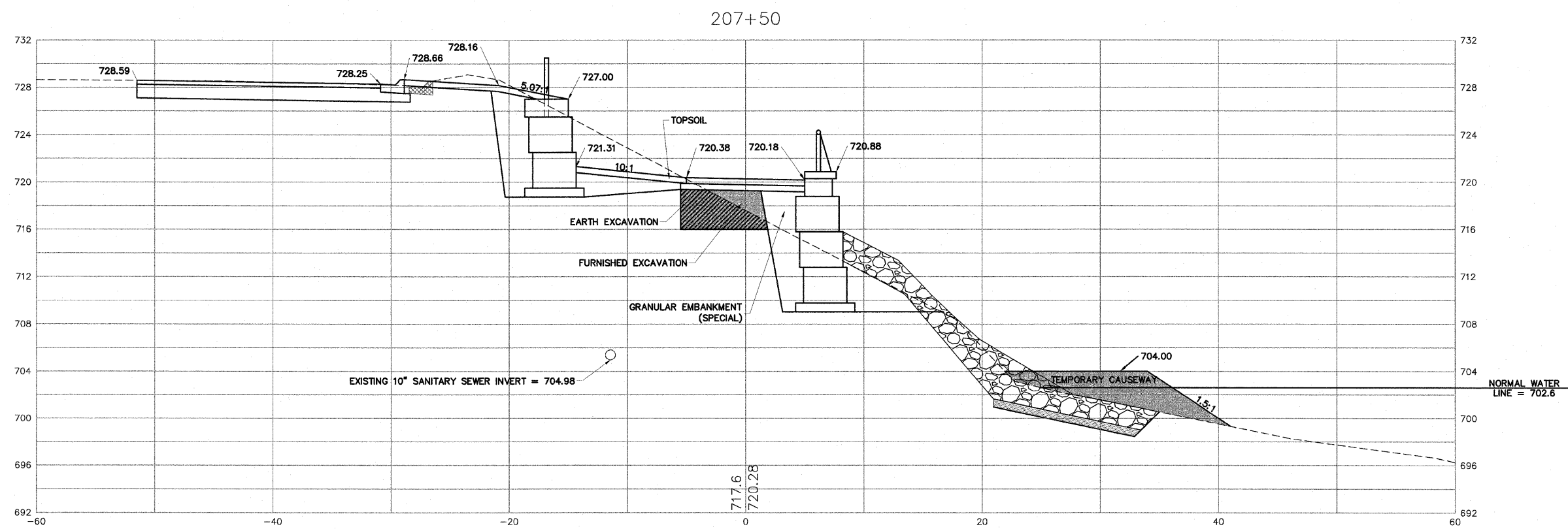
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JOB: 04-28-10-008

SHEET NO.  
**113**  
OF  
**148**



SHEET REVIEW	
AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

SCALE: Hor. 1"=5' Ver. 1"=5'
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DATE: AUGUST 13, 2010

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**CROSS SECTIONS - 207+00 TO 207+50**

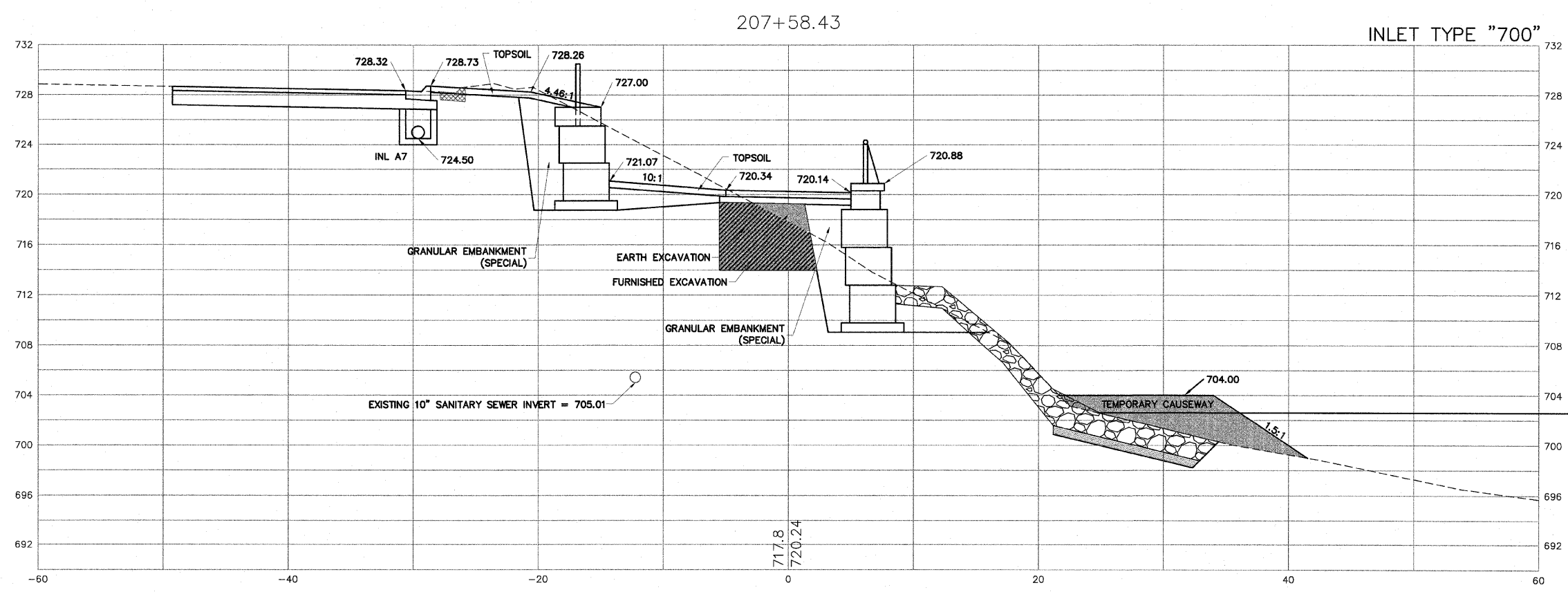
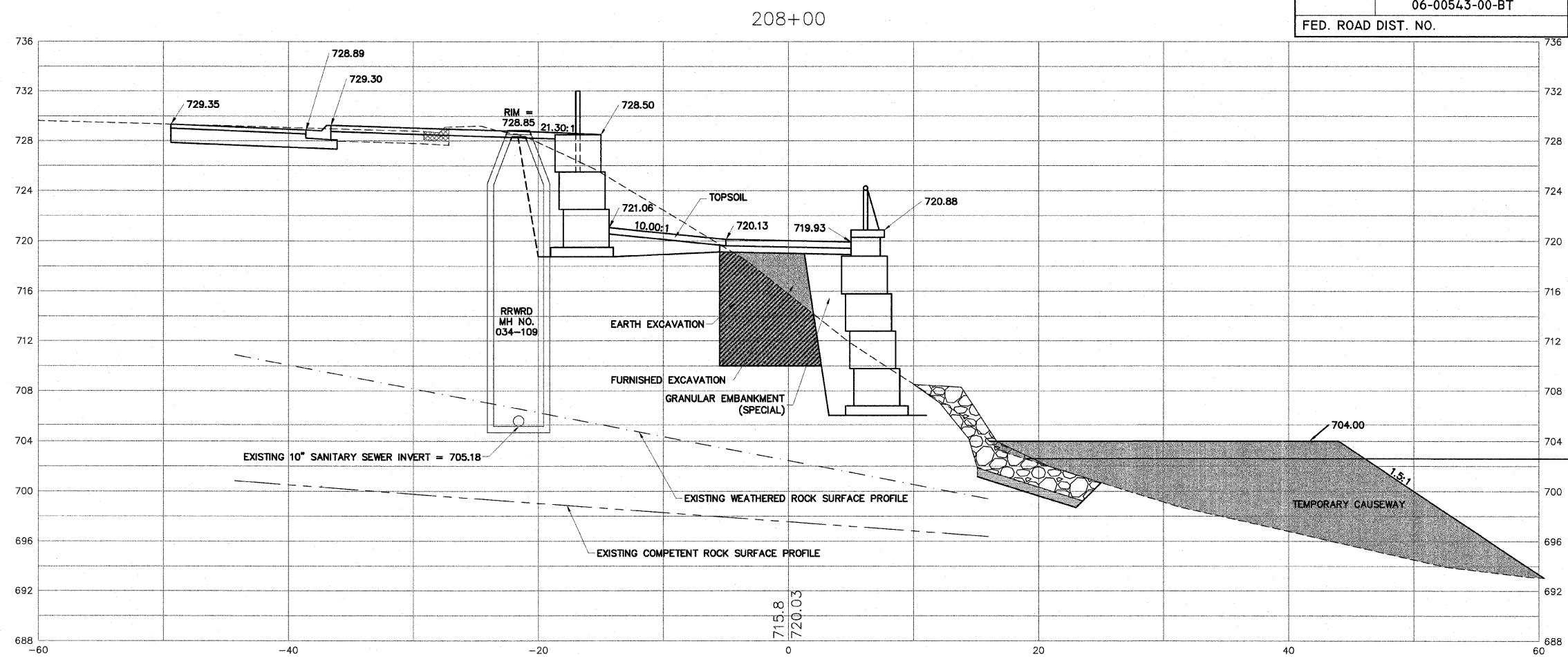
RIVERWALK MUSEUM CAMPUS

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ROCKFORD, IL

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JOB: 04-28-10-008

SHEET NO.  
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OF  
**148**

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AGENCY	DATE

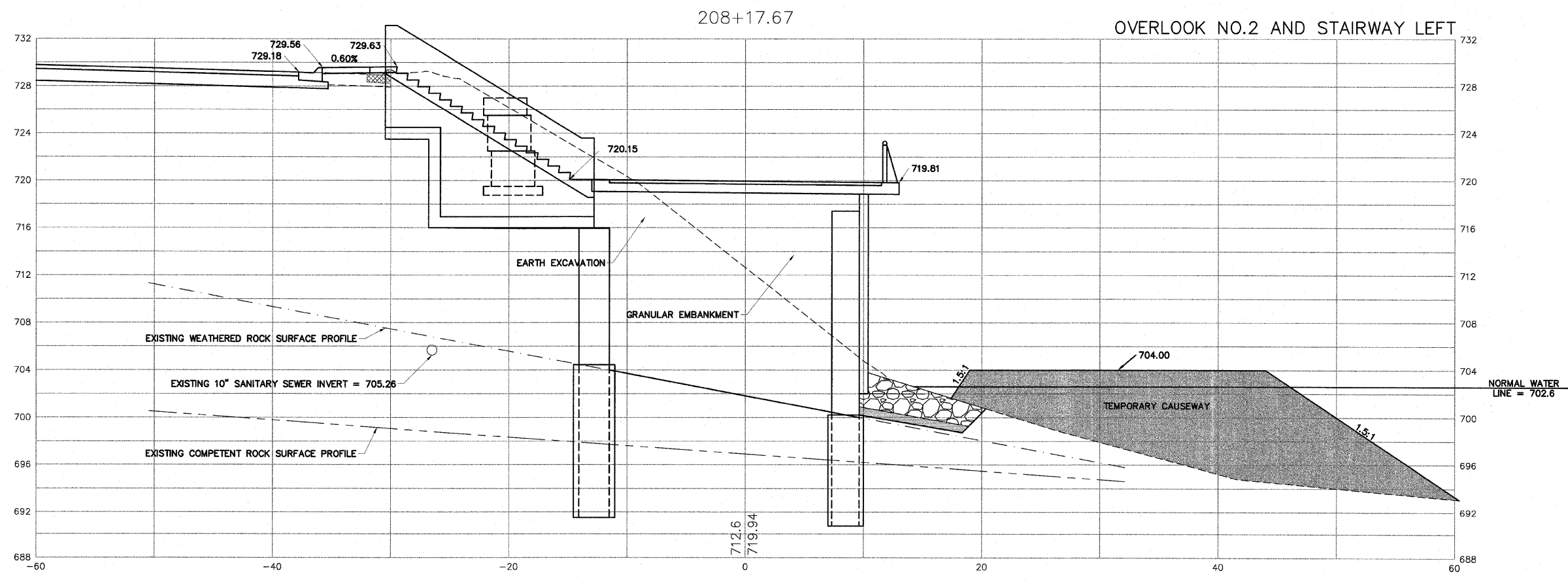
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FILE: H:\08-008 RIVERWALK MUSEUM\DRAWINGS\08-008 XSEC FINAL.DWG	JOB: 04-28-10-008
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208+17.67

OVERLOOK NO.2 AND STAIRWAY LEFT

EARTH EXCAVATION

GRANULAR EMBANKMENT

EXISTING WEATHERED ROCK SURFACE PROFILE

EXISTING 10" SANITARY SEWER INVERT = 705.26

EXISTING COMPETENT ROCK SURFACE PROFILE

TEMPORARY CAUSEWAY

NORMAL WATER LINE = 702.6

SHEET REVIEW	
AGENCY	DATE

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NO.	ITEM	DATE

SCALE: Hor. 1"=5' Ver. 1"=5'	
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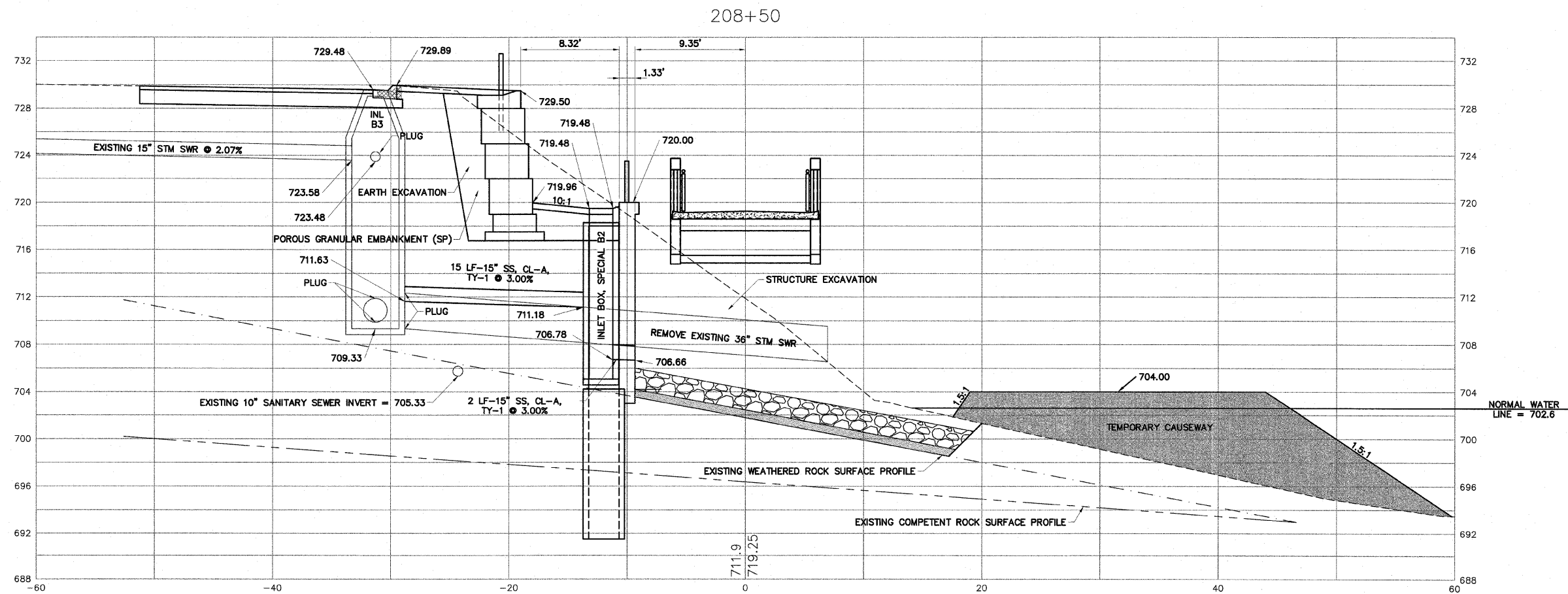
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FILE: H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG  
JOB: 04-28-10-008

SHEET NO.  
**116**  
OF  
**148**

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SHEET REVIEW	
AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

SCALE:	Hor. 1"=5' Ver. 1"=5"
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DATE:	AUGUST 13, 2010

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**CROSS SECTIONS - 208+50**

RIVERWALK MUSEUM CAMPUS

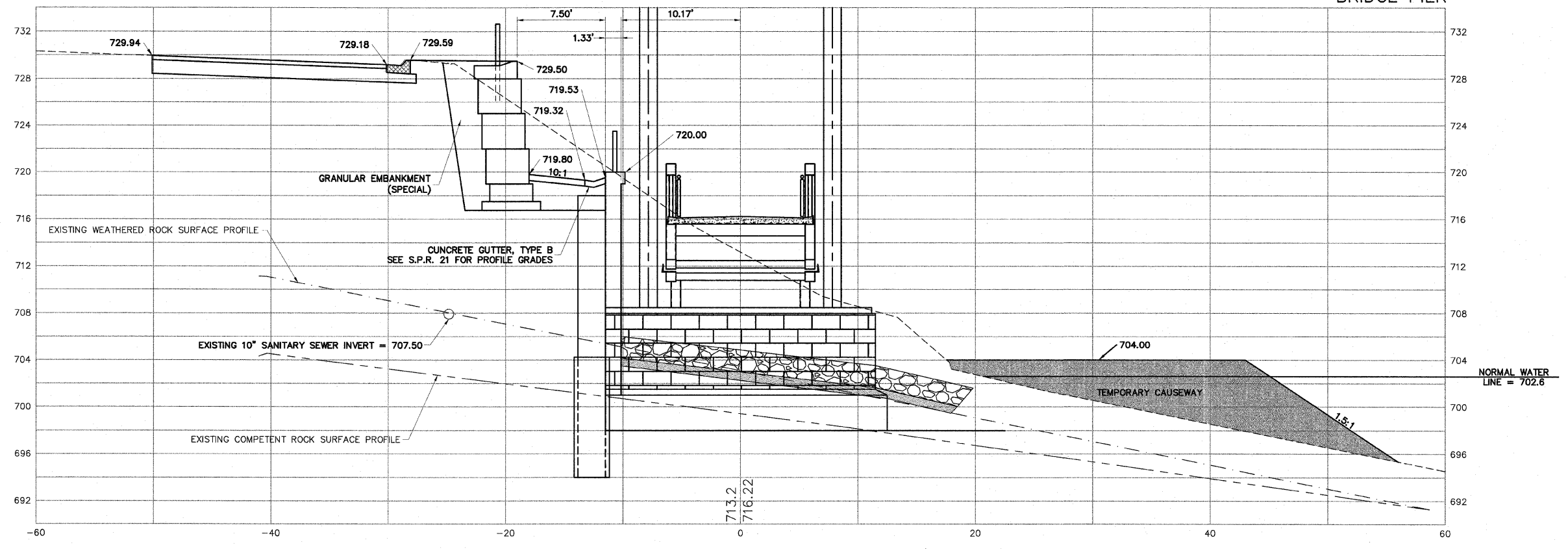
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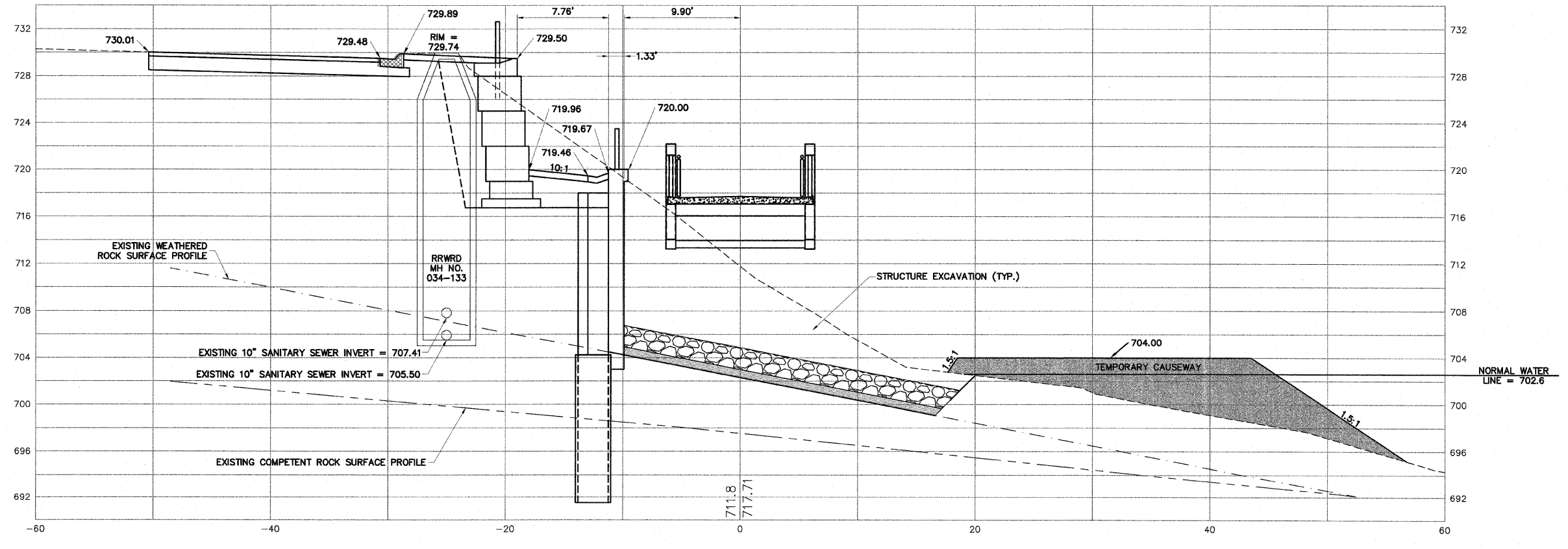
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OF	148

209+48.25

BRIDGE PIER

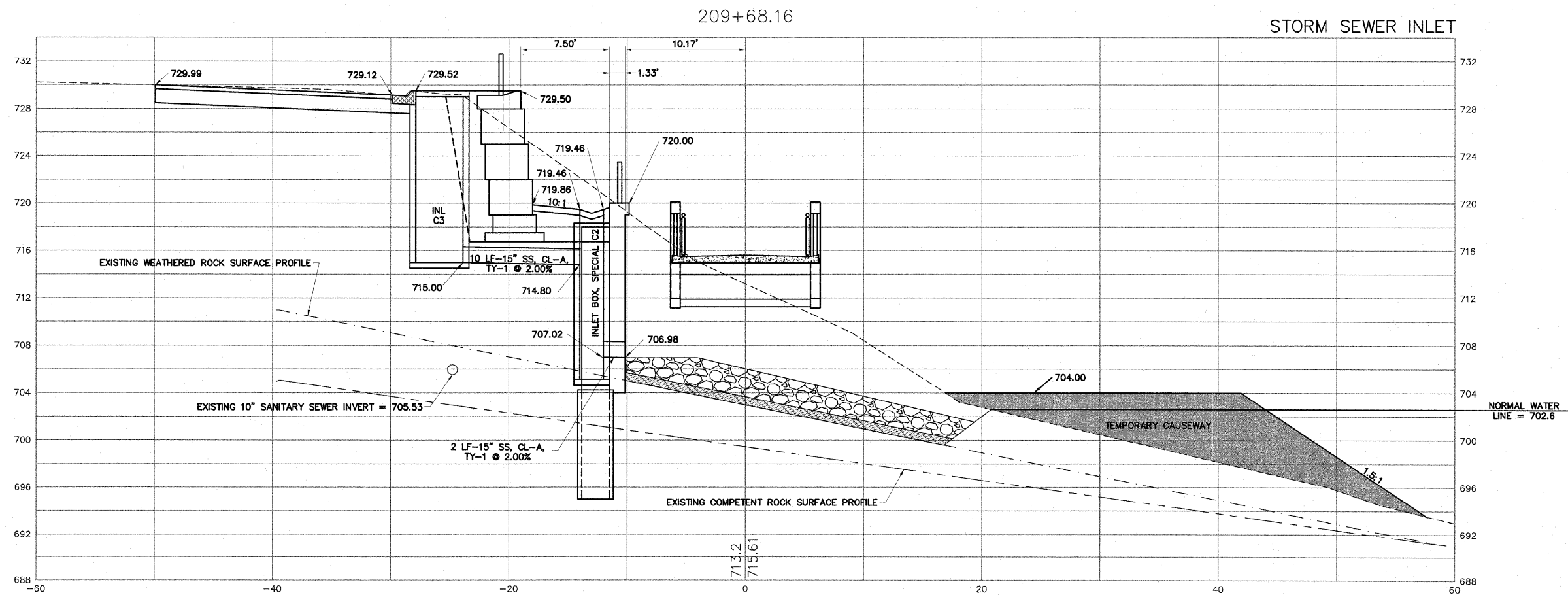


209+00



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AGENCY	DATE															
NO.	ITEM	DATE														



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AGENCY	DATE

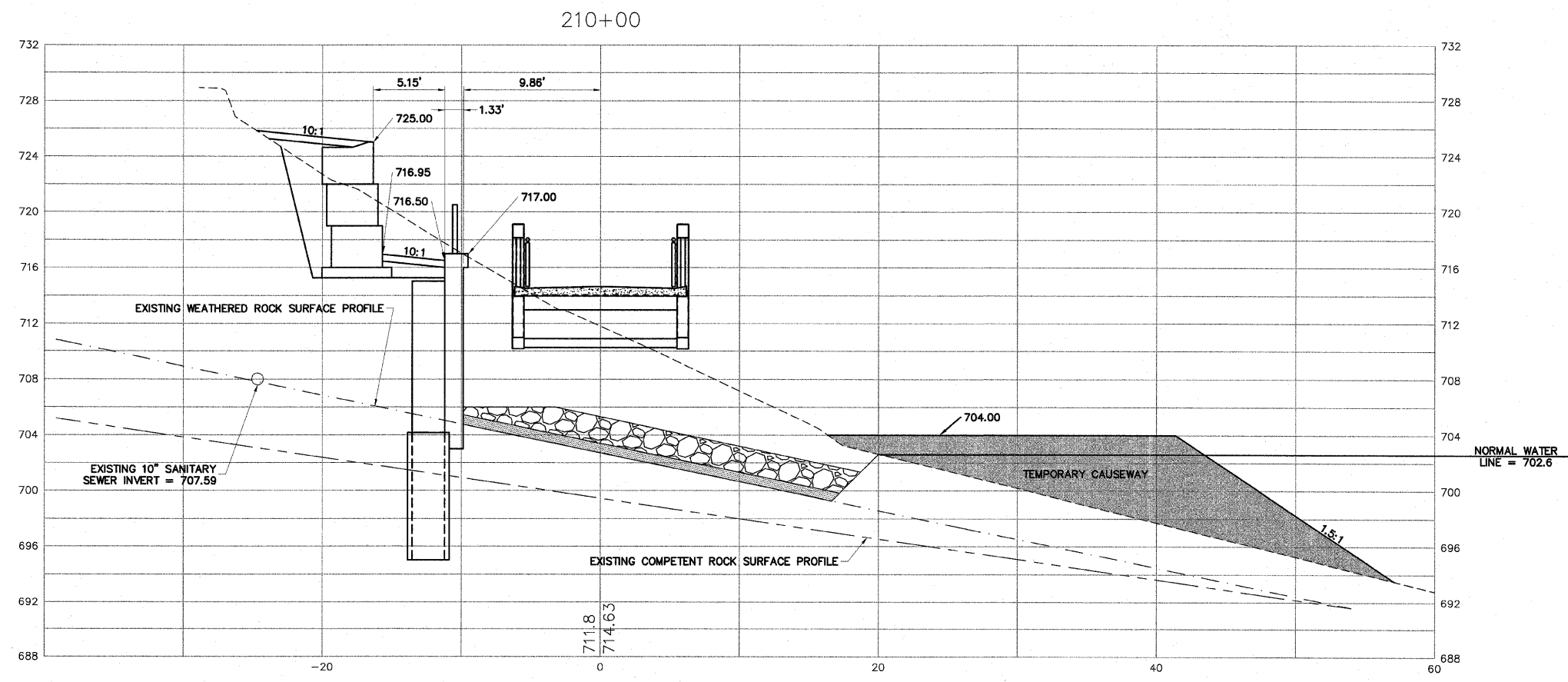
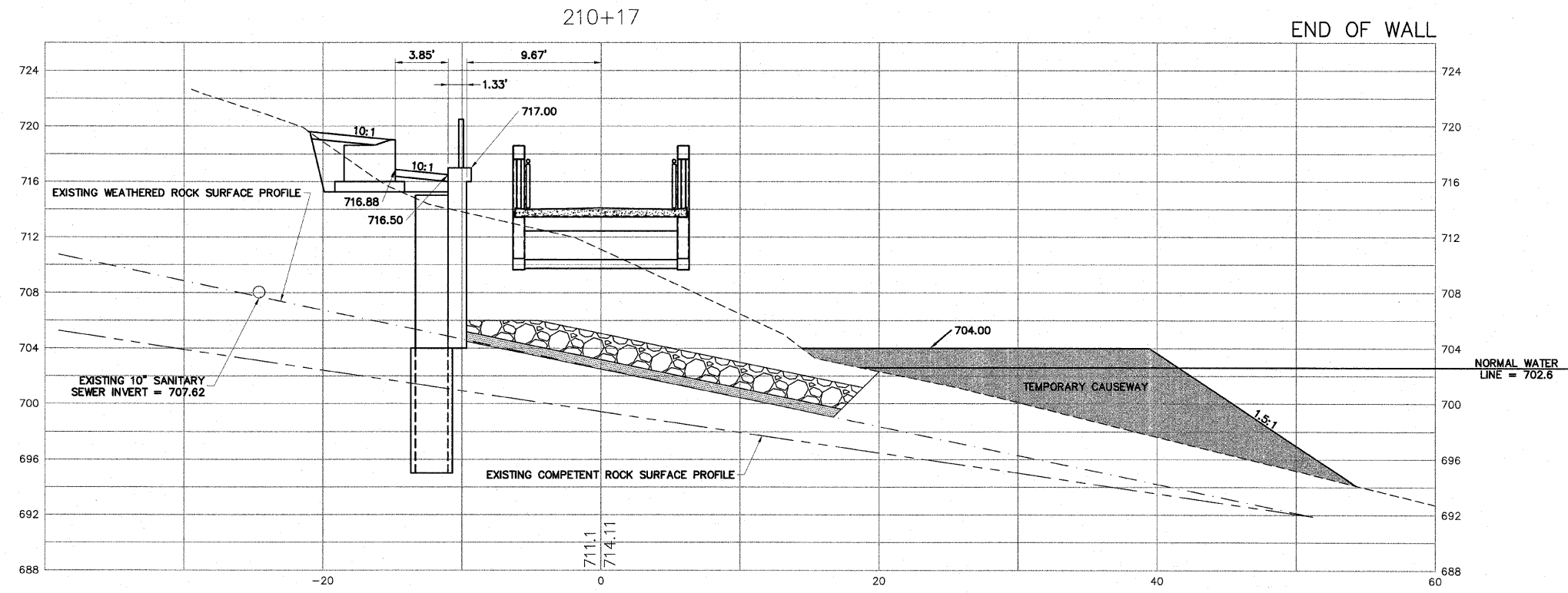
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NO.	ITEM	DATE

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711 NORTH MAIN STREET	FILE: H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG
	JOB: 04-28-10-008

SHEET NO.	119
OF	148



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SHEET REVIEW	
AGENCY	DATE

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NO.	ITEM	DATE

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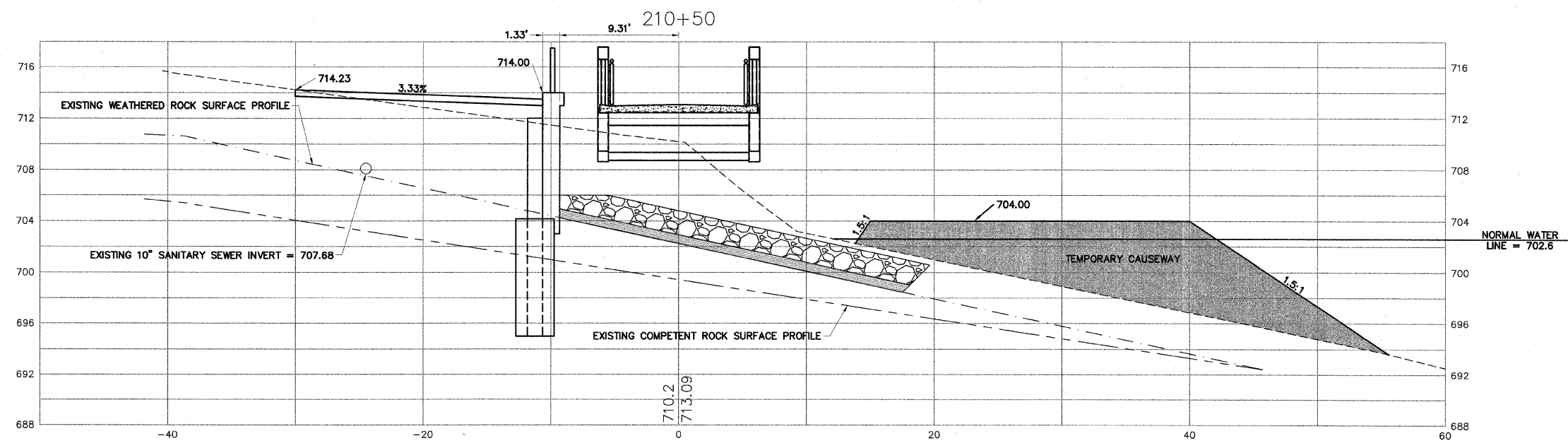
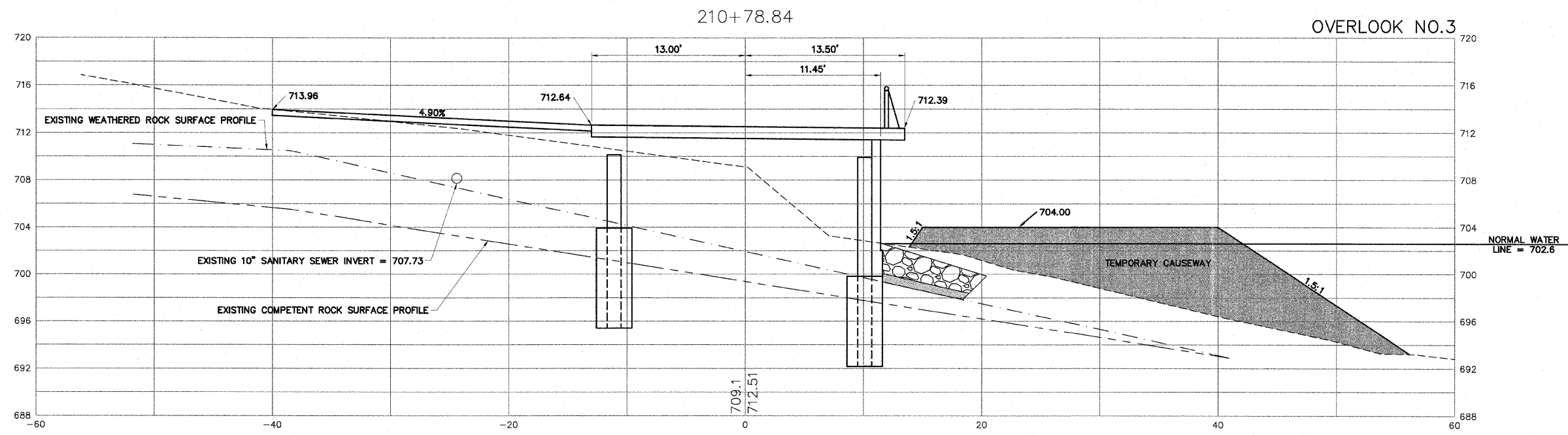
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RIVERWALK MUSEUM CAMPUS

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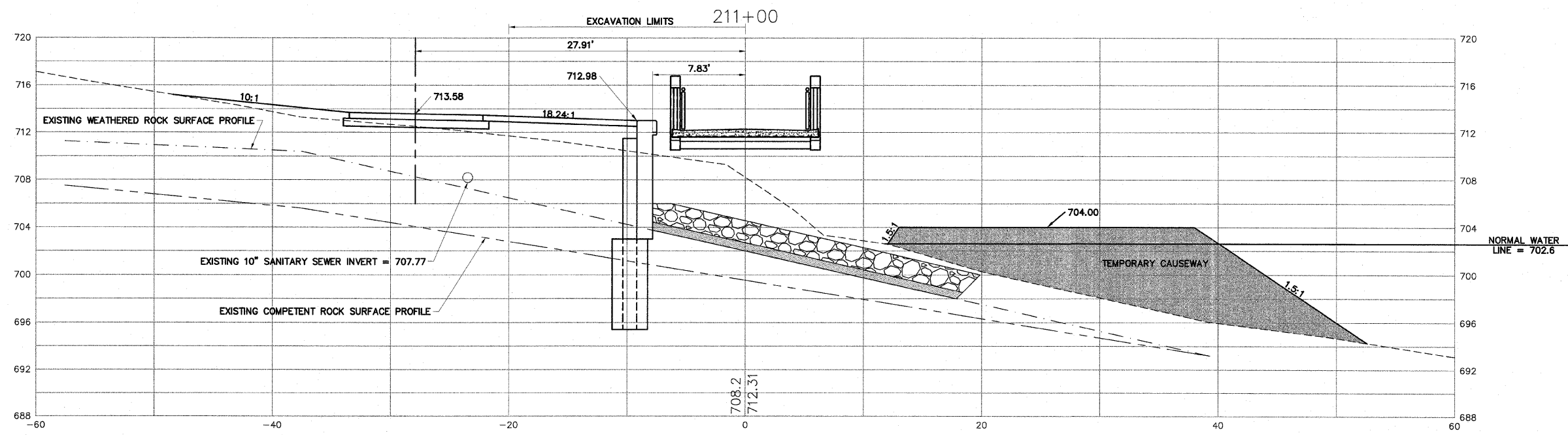
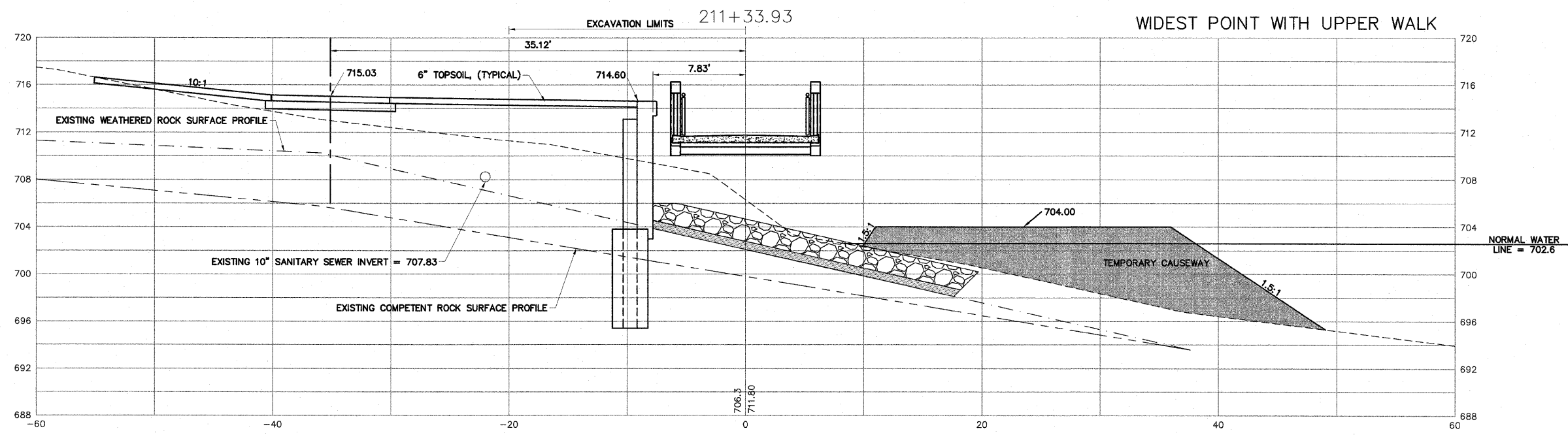
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 JOB: 04-28-10-008

SHEET NO.	120
OF	148



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AGENCY	DATE																					
NO.	ITEM	DATE																				



H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG. CROSS SECTIONS - 211+00 TO 211+33.93. 11/17/2010 12:49:27 PM. J.H. JWH

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AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

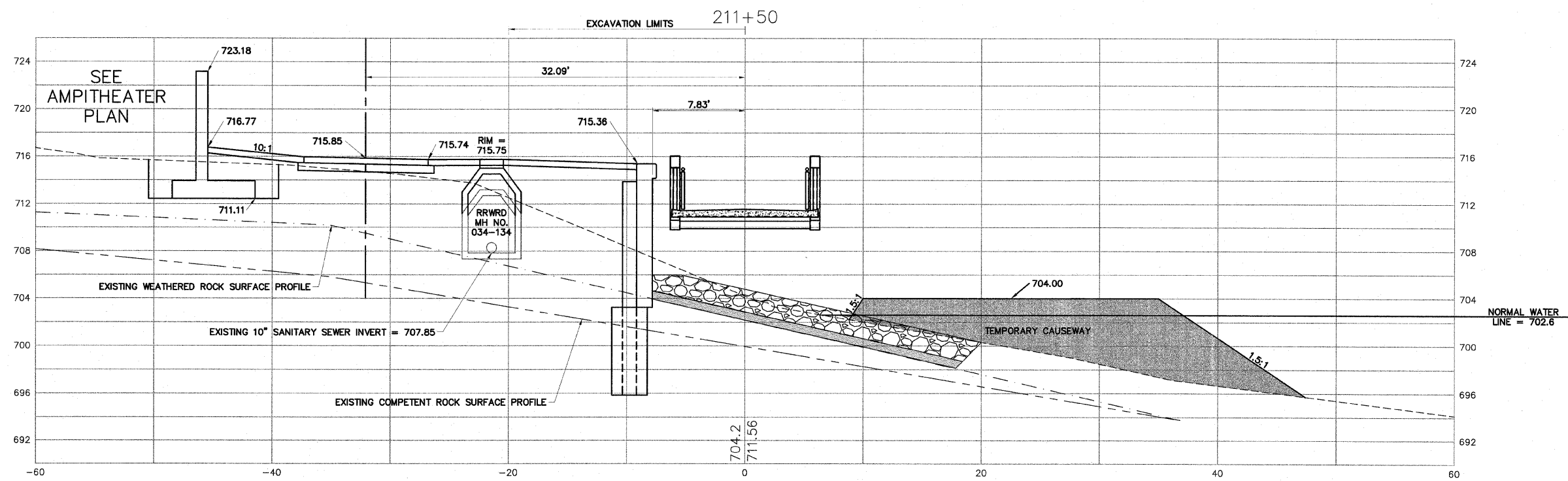
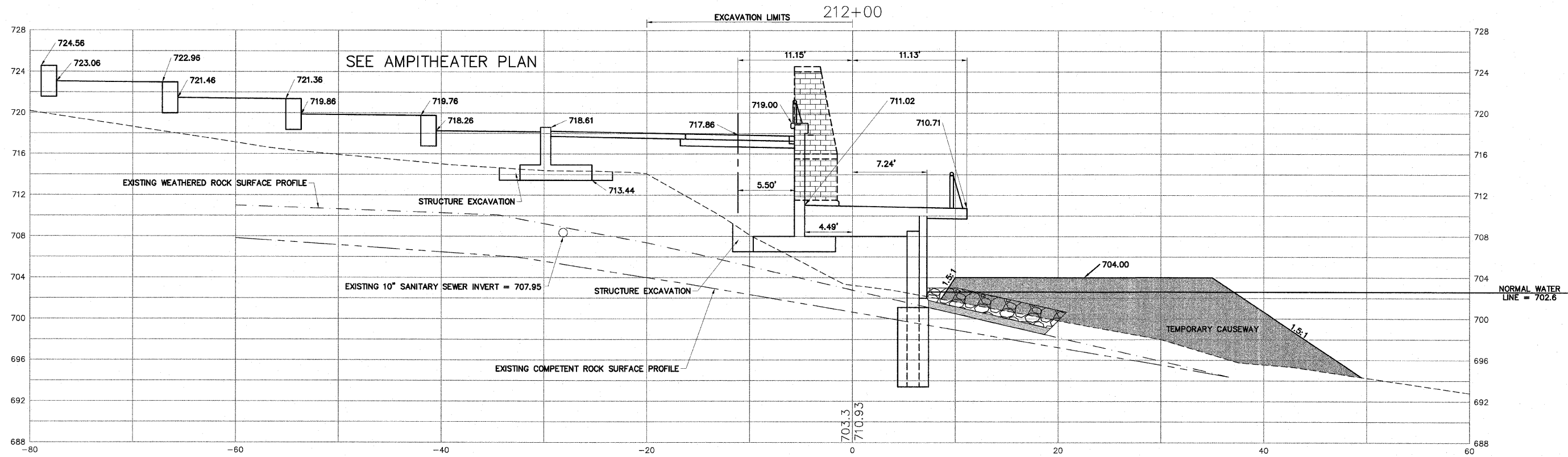
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**CROSS SECTIONS - 211+00 TO 211+33.93**  
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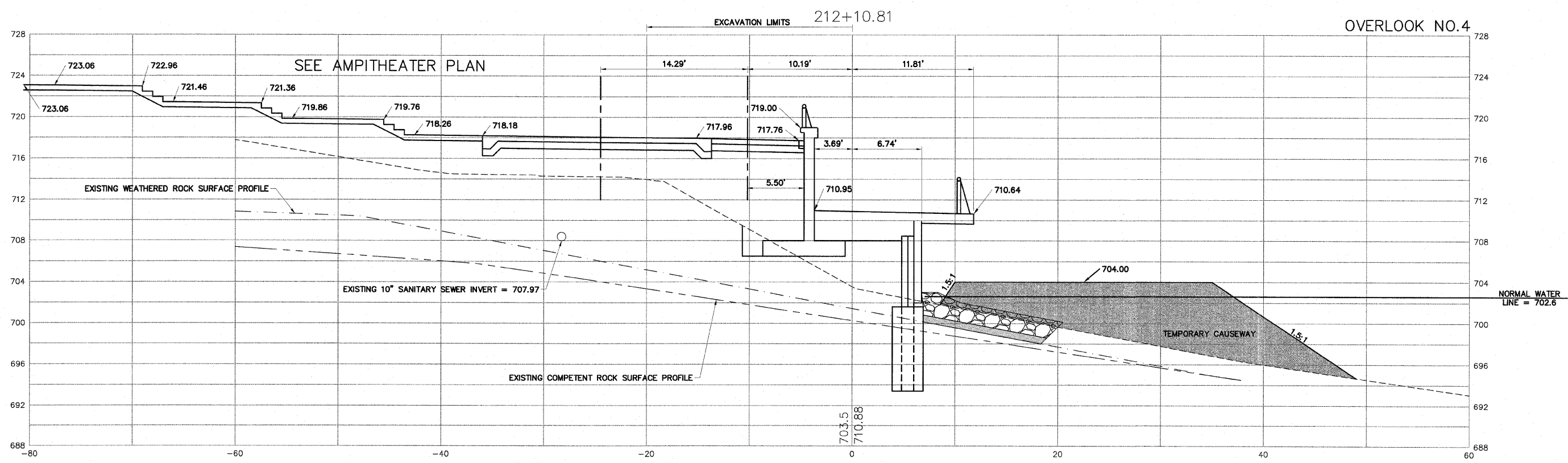
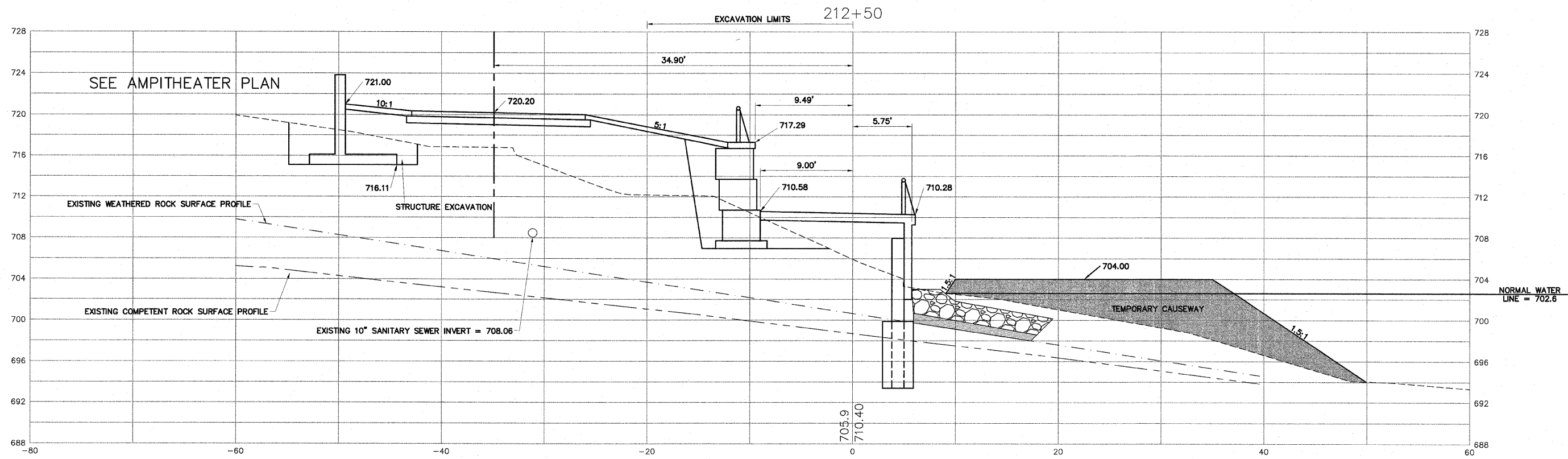
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JOB: 04-28-10-008

FROM STATION 211+50 TO 213+11.27 THE EARTH EXCAVATION QUANTITY STOPS AT 20 FEET LEFT OF CENTERLINE. THE EXCAVATION GREATER THAN 20 FEET LEFT IS INCLUDED IN THE 300 SERIES STATIONING QUANTITY.



H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL DWG. CROSS SECTIONS - 211+50 TO 212+00. 11/1/2010 12:49:40 PM. J.L. JWH

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NO.	ITEM	DATE											



OVERLOOK NO.4

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AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

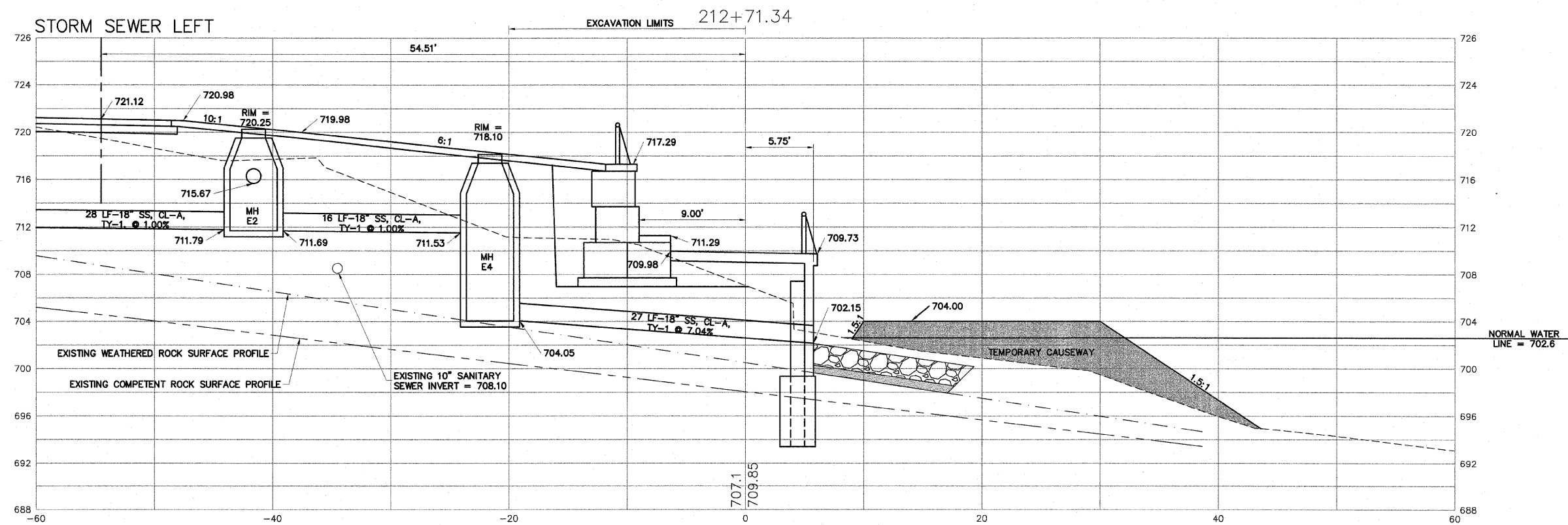
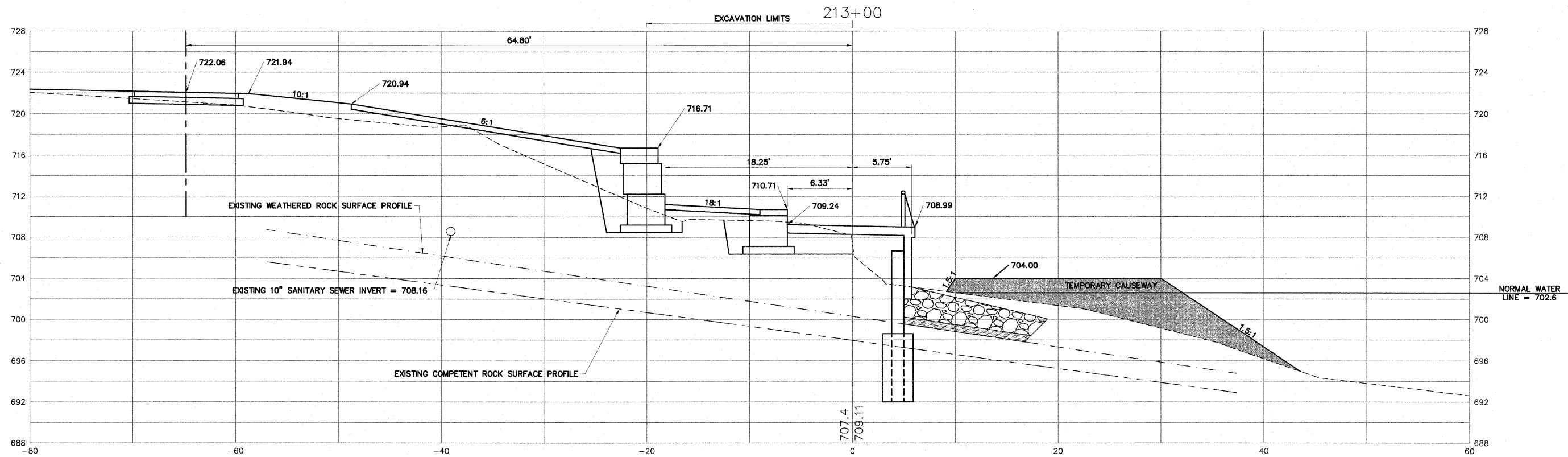
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FILE: H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG  
JOB: 04-28-10-008

SHEET NO.  
**124**  
OF  
**148**





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SHEET REVIEW	
AGENCY	DATE

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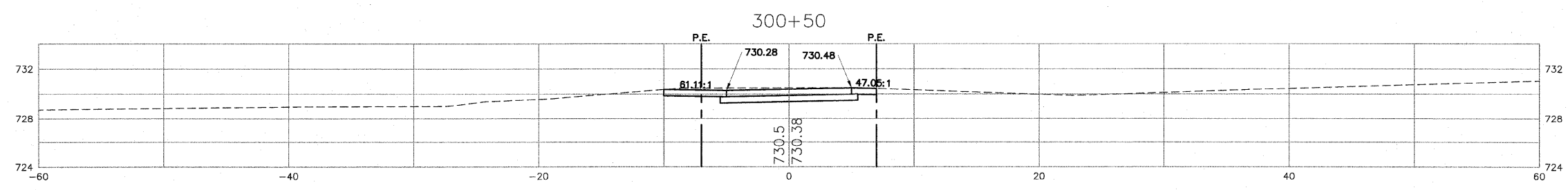
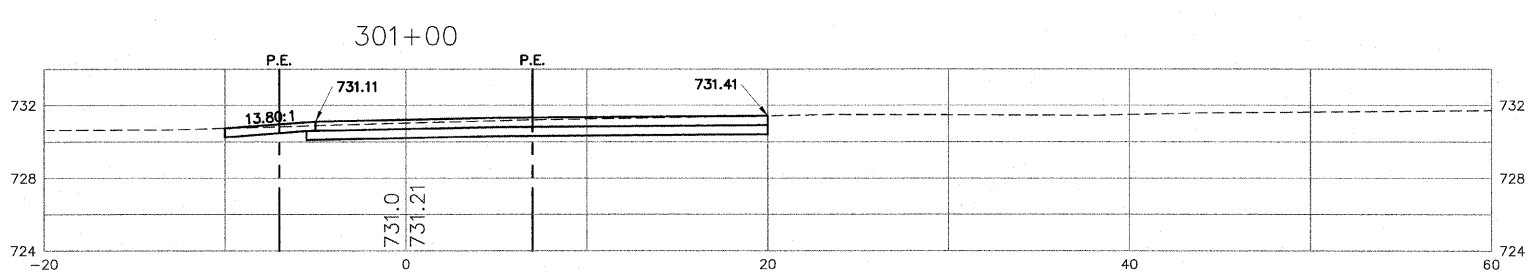
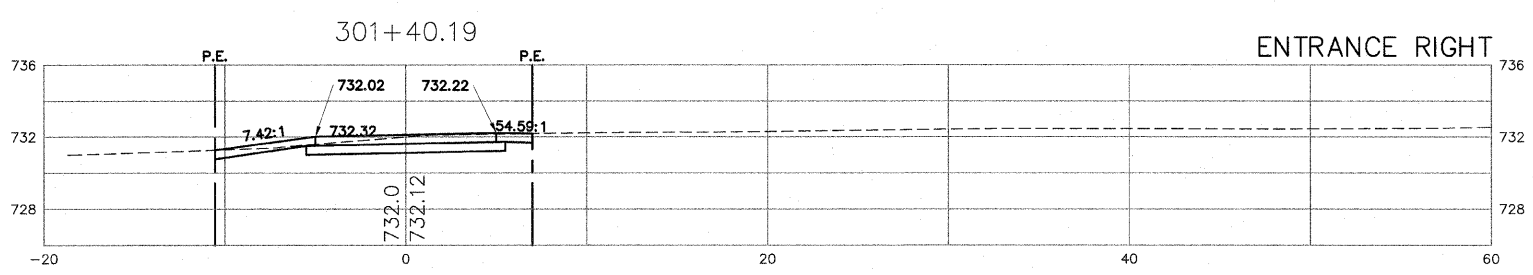
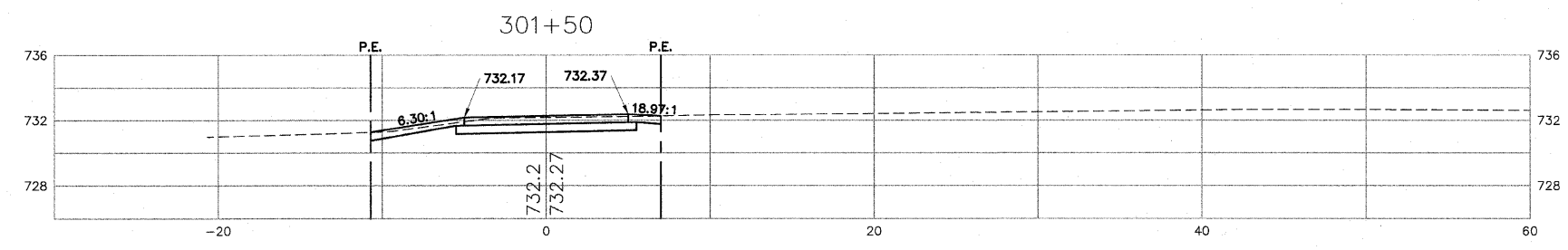
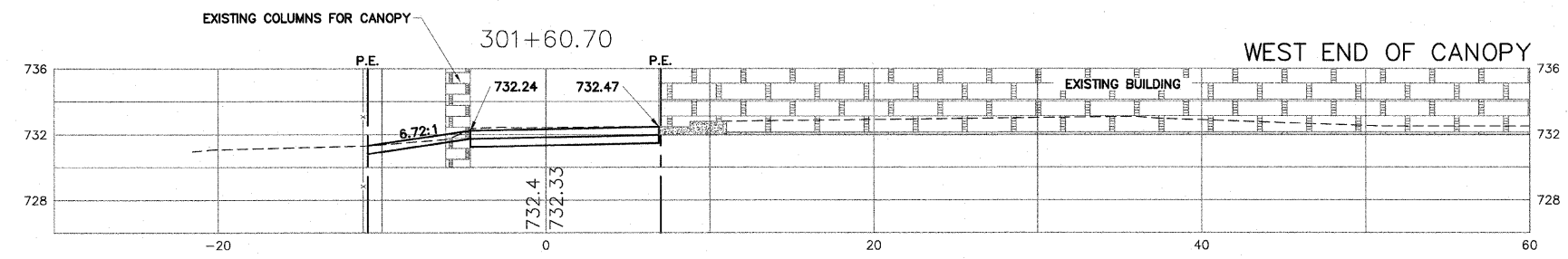
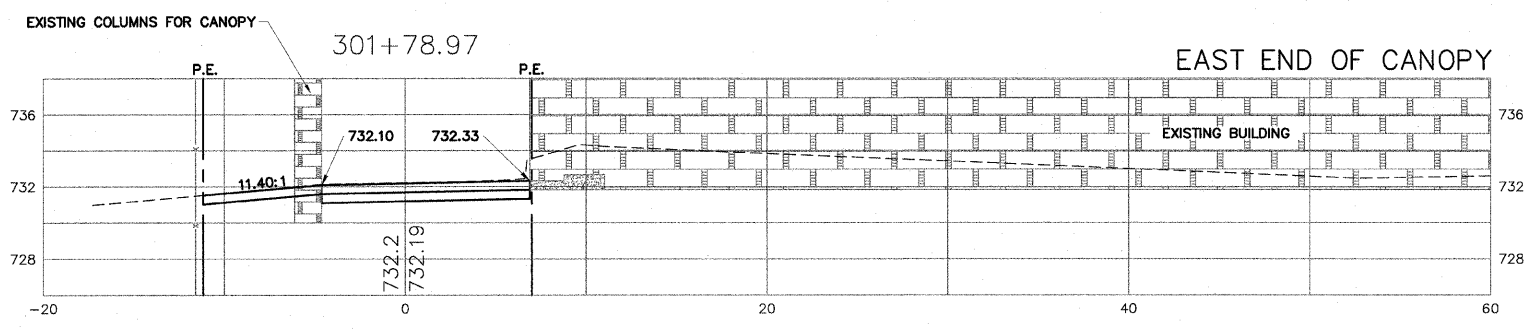
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JOB:04-28-10-008

SHEET NO.  
**125**  
OF  
**148**





SHEET REVIEW	
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NO.	ITEM	DATE

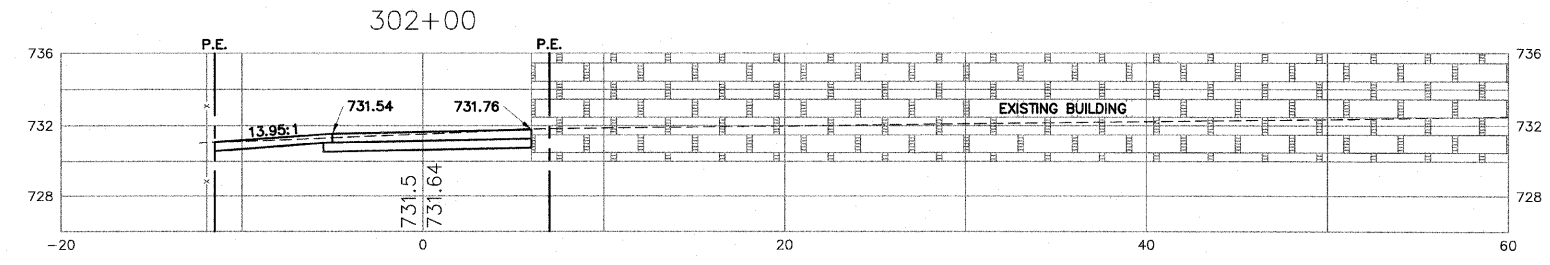
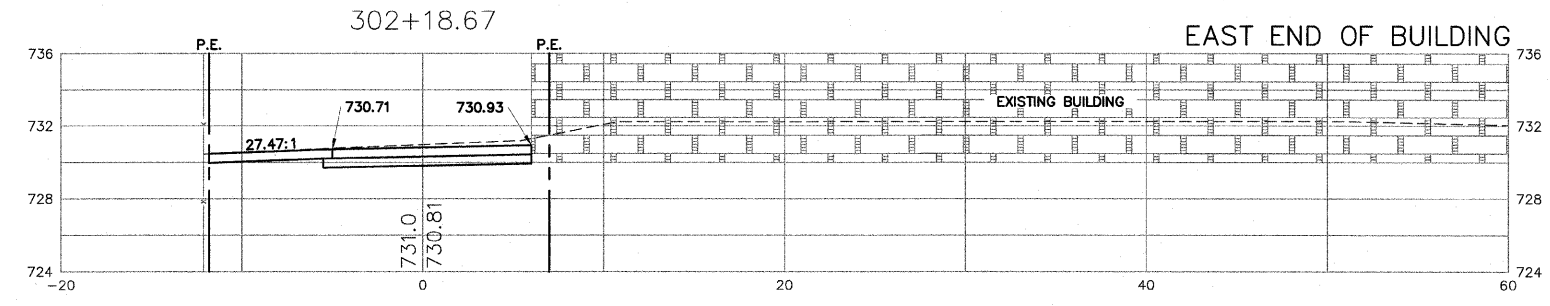
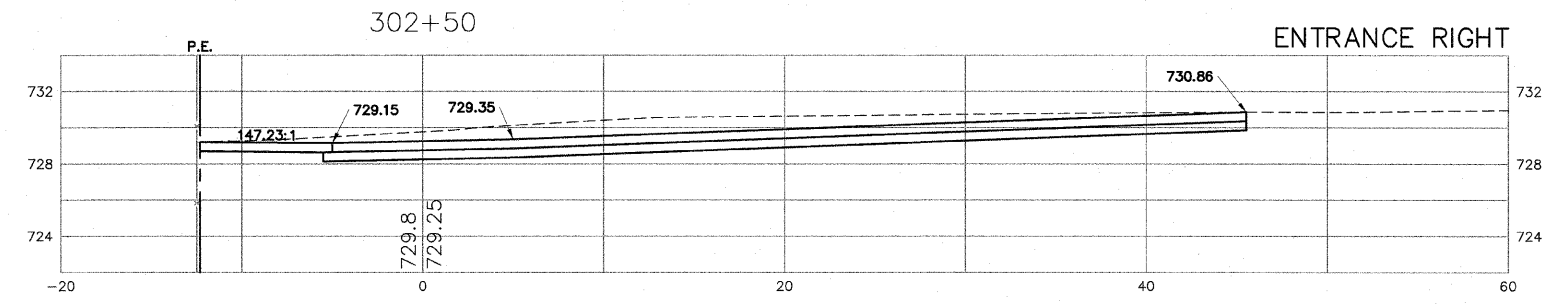
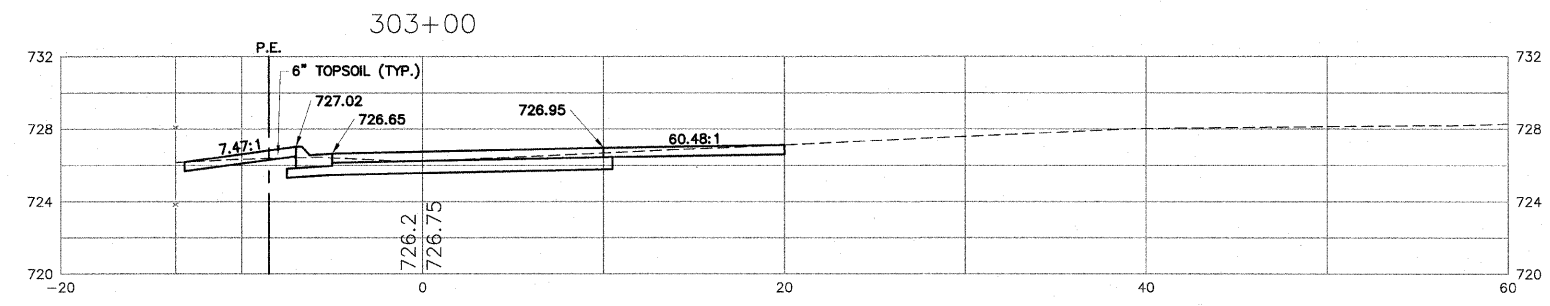
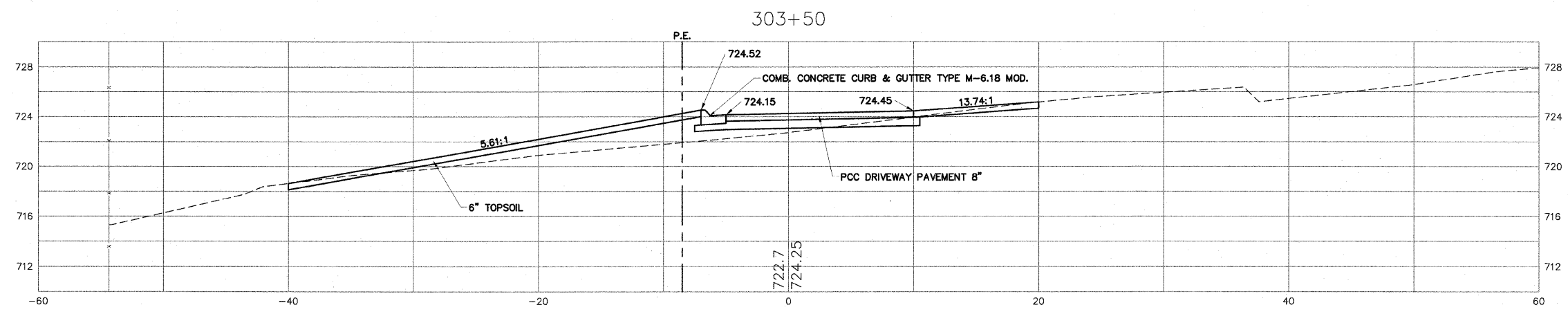
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CHECKED BY:	JWH	
DATE:	AUGUST 13, 2010	

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SHEET REVIEW	
AGENCY	DATE

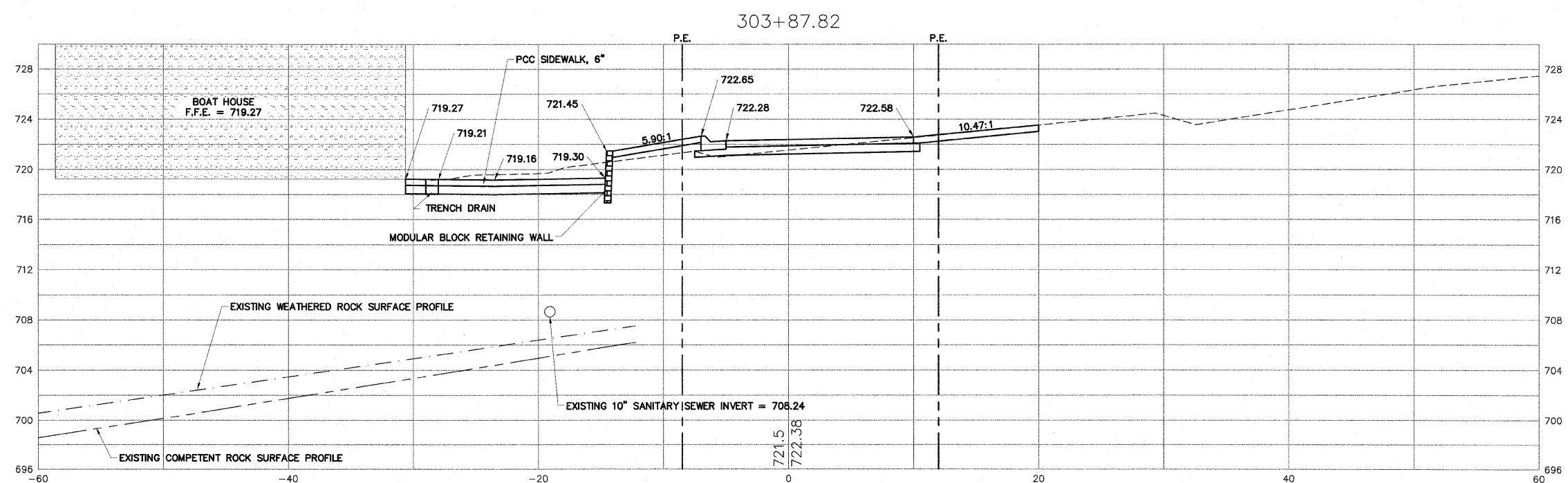
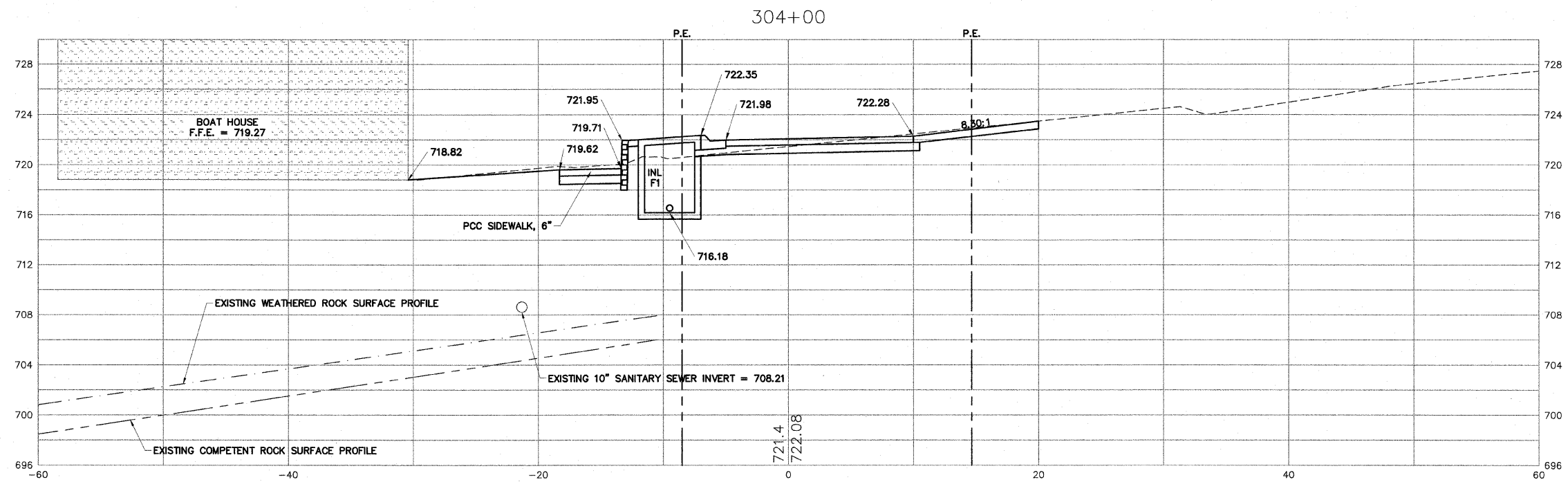
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NO.	ITEM	DATE

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JOB: 04-28-10-008



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SHEET REVIEW	
AGENCY	DATE

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NO.	ITEM	DATE

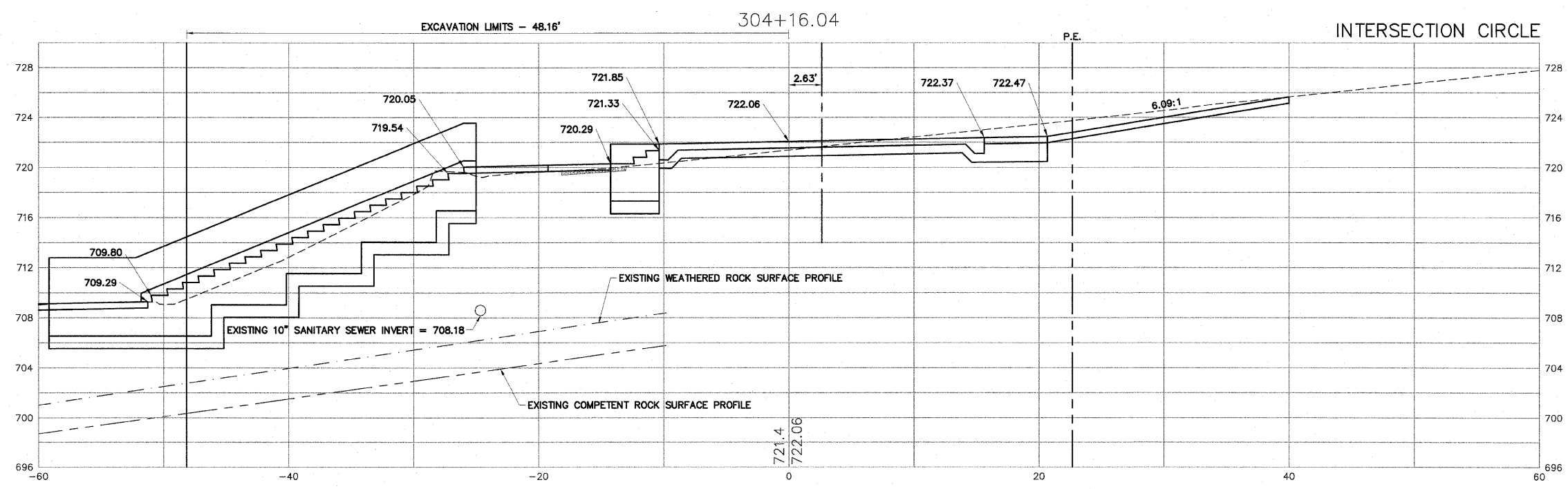
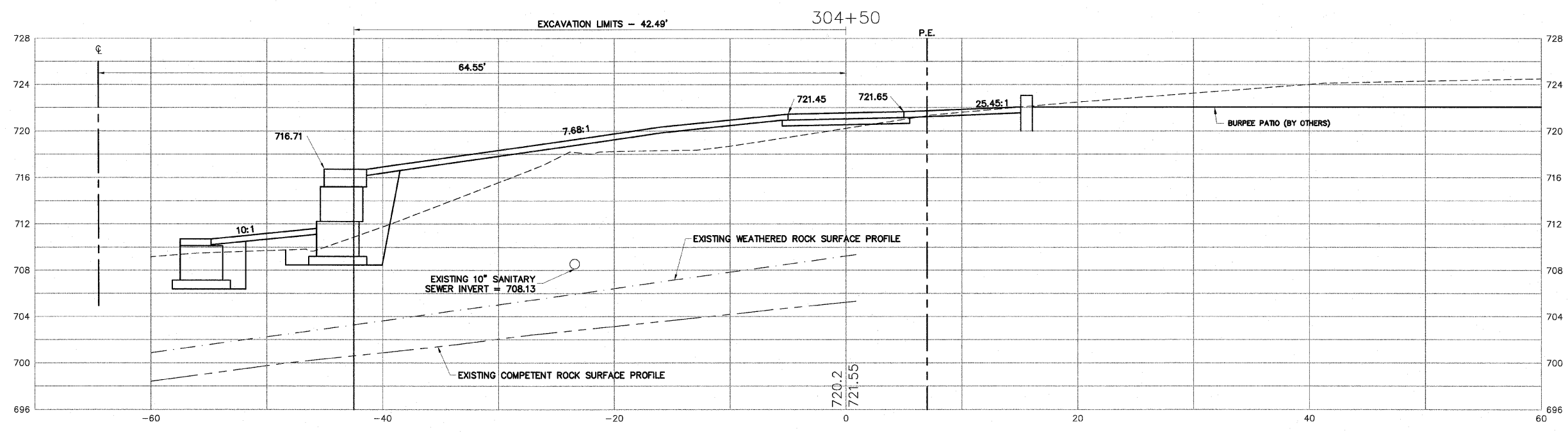
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SHEET NO.  
**129**  
 OF  
**148**



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SHEET REVIEW	
AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

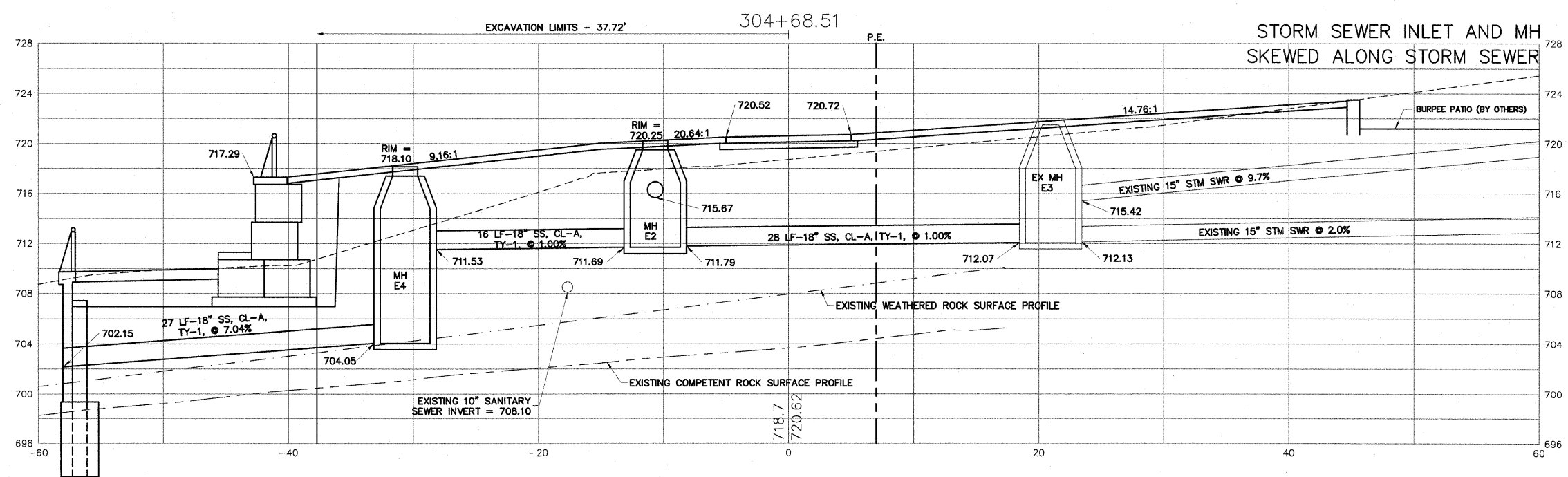
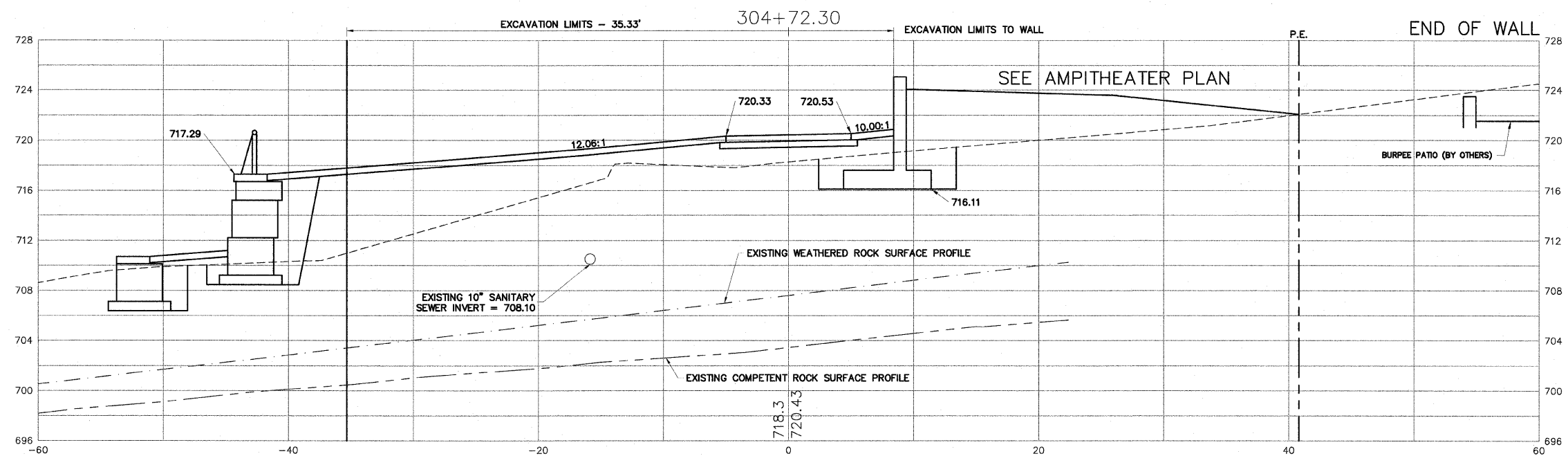
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SHEET NO.  
**130**  
OF  
**148**



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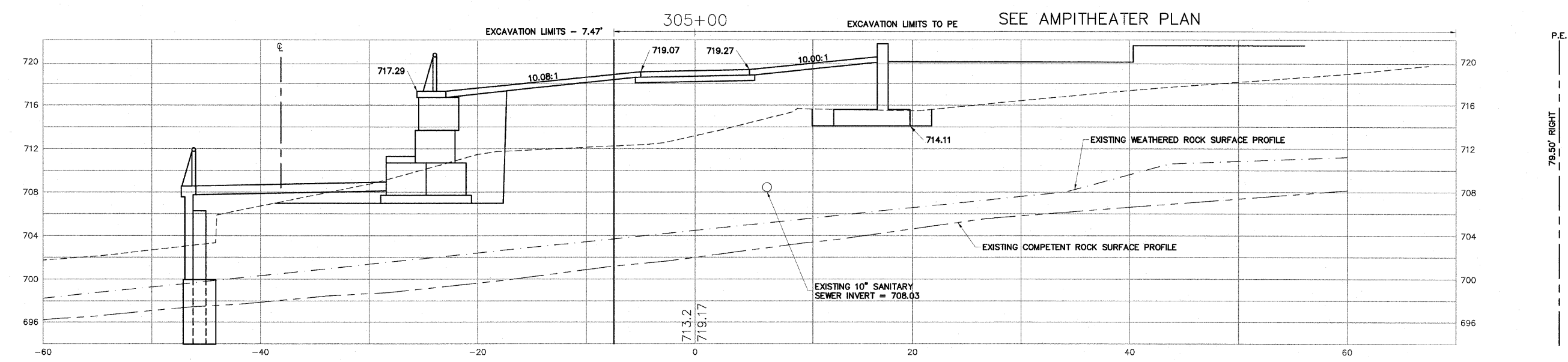
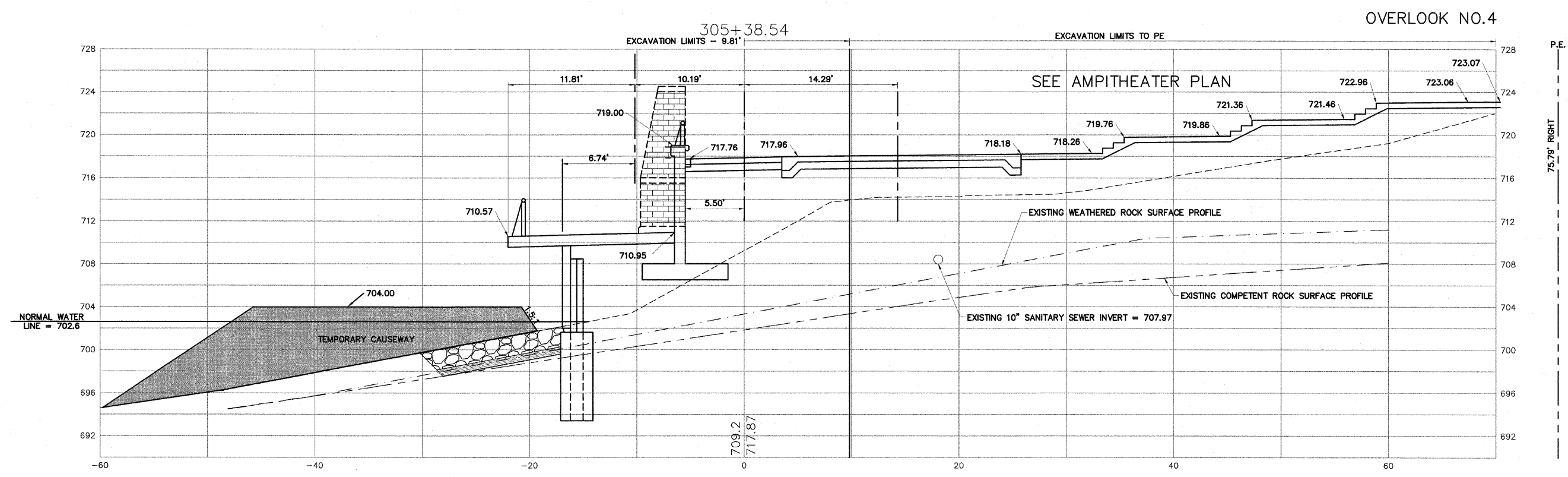
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711 NORTH MAIN STREET  
ROCKFORD, IL

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JOB: 04-28-10-008

SHEET NO. 131 OF 148



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SHEET REVIEW	
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NO.	ITEM	DATE

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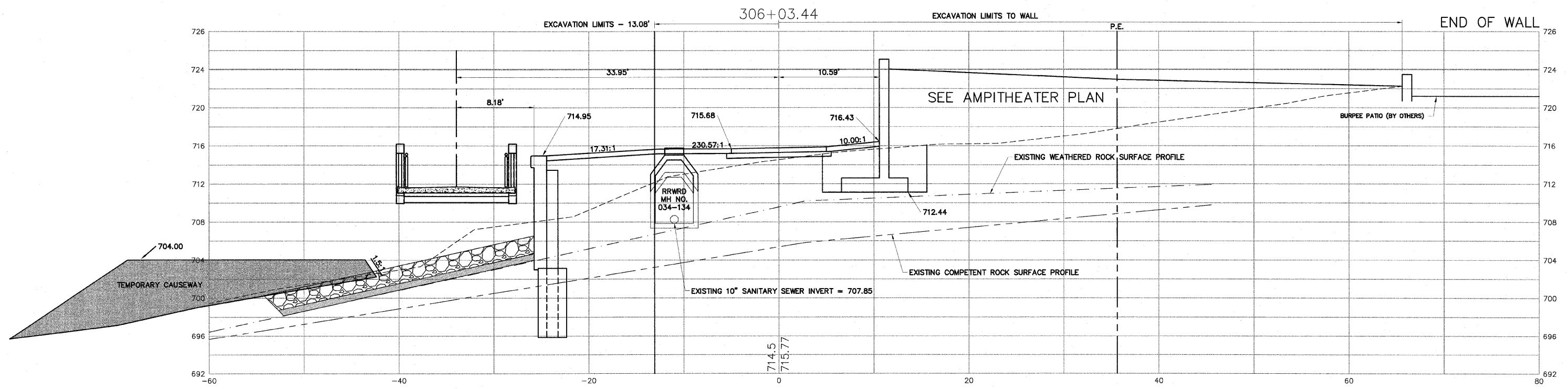
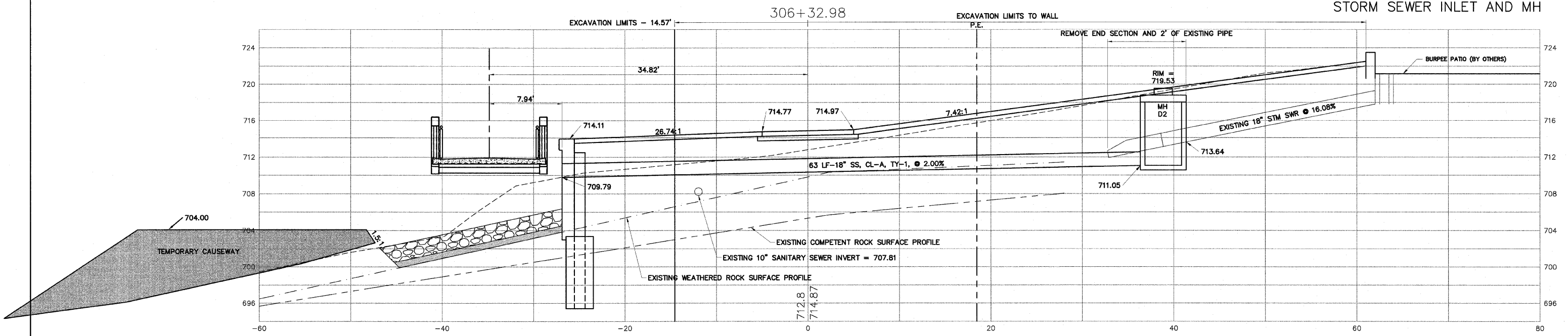
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SHEET NO.  
**132**  
OF  
**148**





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SHEET NO.	133
OF	148

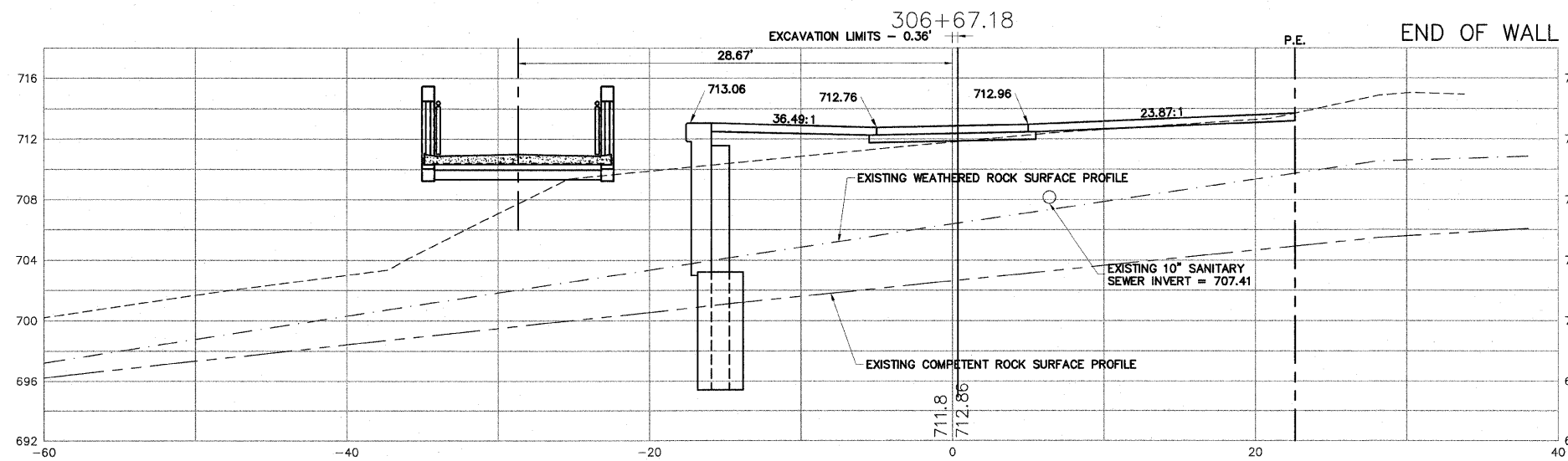
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Station	Distance Between Stations (ft.)	Cut End Area (s.f.)	Cut Average End Area (s.f.)	Cut Volume (c.y.)	Cumulative Cut Volume (c.y.)	Fill End Area (s.f.)	Fill Average End Area (s.f.)	Fill Volume (c.y.)	Cumulative Fill Volume (c.y.)	Cumulative C&F Volume (c.y.)
300+04		0				0				
300+50	46	16	8	14	14	0	0	0	0	14
301+00	50	24	20	37	51	0	0	0	0	51
301+40	40	11	18	26	77	0	0	0	0	77
301+50	10	12	12	4	81	0	0	0	0	81
301+61	11	15	14	5	86	0	0	0	0	86
301+79	18	16	16	10	97	0	0	0	0	97
302+00	21	13	15	11	108	0	0	0	0	108
302+19	19	17	15	10	118	0	0	0	0	118
302+50	31	83	50	58	176	0	0	0	0	176
303+00	50	19	51	94	271	0	0	0	0	271
303+50	50	5	12	22	293	28	14	26	26	267
303+88	38	40	23	32	325	3	16	22	48	277
304+00	12	29	35	16	340	6	5	2	50	290
304+16	16	55	42	25	365	2	4	2	52	313
304+50	34	11	33	42	407	76	39	49	101	306
304+69	19	8	10	7	413	130	103	71	172	241
304+72	4	0	4	1	414	215	173	24	196	218
305+00	28	0	0	0	414	164	190	194	390	23
305+39	39	0	0	0	414	162	163	233	623	209
306+03	65	0	0	0	414	263	213	511	1134	720
306+33	30	12	6	7	420	48	156	170	1304	884
306+67	34	3	8	10	430	1	25	31	1335	905
306+75	8	0	2	0	430	0	0	0	1335	905

THERE IS NO FURNISHED EXCAVATION QUANTITY IN THE 300 SERIES STATIONING

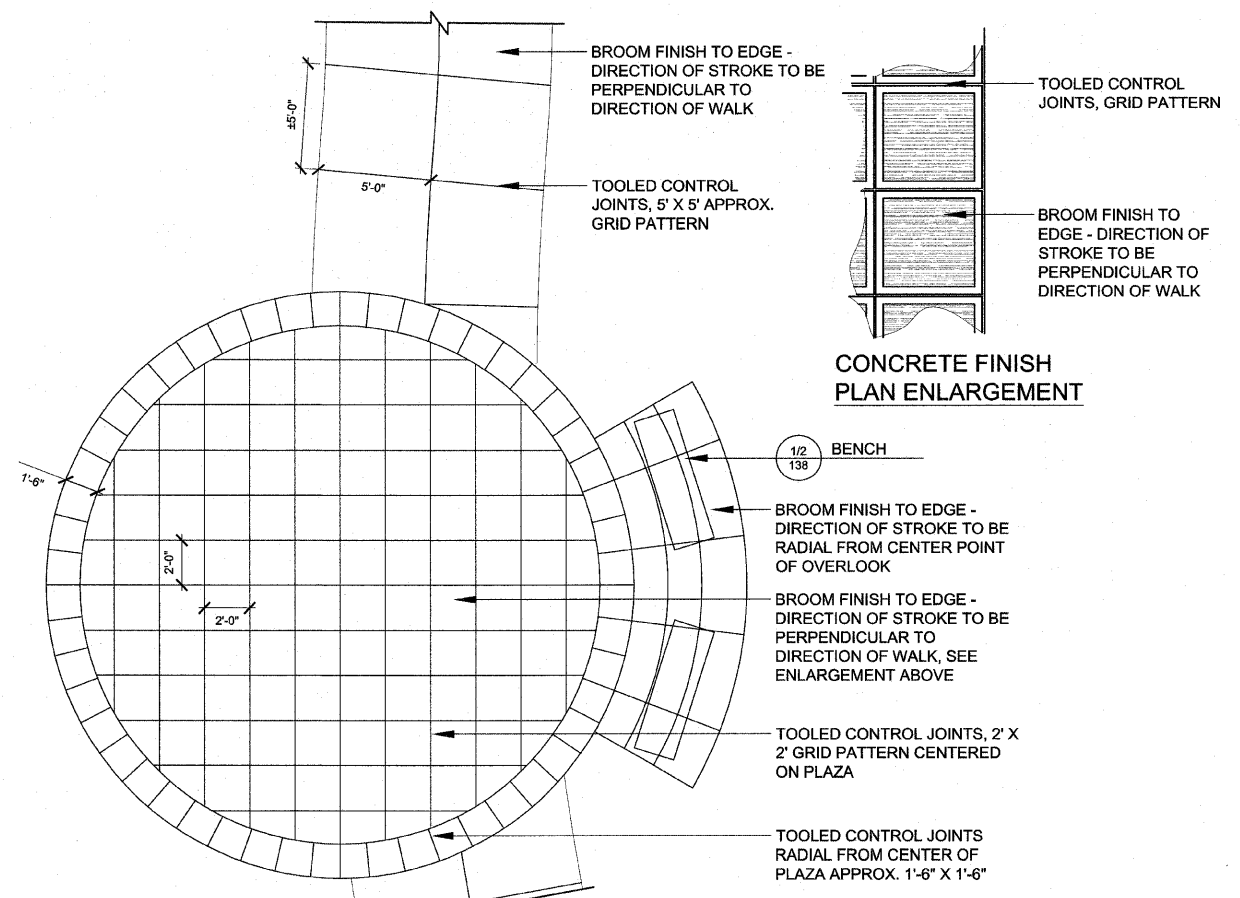
### POROUS GRANULAR EMBANKMENT WORKSHEET

Station	Distance Between Stations (ft.)	Cut End Area (s.f.)	Cut Average End Area (s.f.)	Cut Volume (c.y.)	Cumulative Cut Volume (c.y.)	Fill End Area (s.f.)	Fill Average End Area (s.f.)	Fill Volume (c.y.)	Cumulative Fill Volume (c.y.)	Cumulative C&F Volume (c.y.)
300+04		0				0				
300+50	46	0	0	0	0	0	0	0	0	0
301+00	50	0	0	0	0	0	0	0	0	0
301+40	40	0	0	0	0	0	0	0	0	0
301+50	10	0	0	0	0	0	0	0	0	0
301+61	11	0	0	0	0	0	0	0	0	0
301+79	18	0	0	0	0	0	0	0	0	0
302+00	21	0	0	0	0	0	0	0	0	0
302+19	19	0	0	0	0	0	0	0	0	0
302+50	31	0	0	0	0	0	0	0	0	0
303+00	50	0	0	0	0	0	0	0	0	0
303+50	50	0	0	0	0	0	0	0	0	0
303+88	38	0	0	0	0	0	0	0	0	0
304+00	12	0	0	0	0	0	0	0	0	0
304+16	16	0	0	0	0	0	0	0	0	0
304+50	34	0	0	0	0	22	11	14	14	14
304+69	19	0	0	0	0	17	20	13	27	27
304+72	4	0	0	0	0	9	1	28	28	28
305+00	28	0	0	0	0	0	0	28	28	28
305+39	39	0	0	0	0	0	0	28	28	28
306+03	65	0	0	0	0	0	0	28	28	28
306+33	30	0	0	0	0	0	0	28	28	28
306+67	34	0	0	0	0	0	0	28	28	28
306+75	8	0	0	0	0	0	0	28	28	28



H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG CROSS SECTIONS - 306+67.18, 11/1/2010 12:51:28 PM, J.H., JWH

<b>SHEET REVIEW</b> AGENCY: _____ DATE: _____		<b>REVISIONS</b> NO. ITEM DATE		SCALE: Hor. 1"=5' Ver. 1"=5' DRAWN BY: MS CHECKED BY: JWH DATE: AUGUST 13, 2010	 7282 Argus Drive Rockford, Illinois 61107-5837 (815) 398-2332 FAX (815) 398-2496 Design Firm License: Illinois 184-000816 Copyright 2010 By McClure Engineering Associates, Inc.	<b>CROSS SECTIONS - 306+67.18</b> RIVERWALK MUSEUM CAMPUS 711 NORTH MAIN STREET ROCKFORD, IL FILE:H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 XSEC FINAL.DWG JOB:04-28-10-008	SHEET NO. <b>134</b> OF <b>148</b>
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**1 OVERLOOK PAVEMENT ENLARGEMENT**  
 Scale: 1/4" = 1'-0"  
 d-enlr-pavement

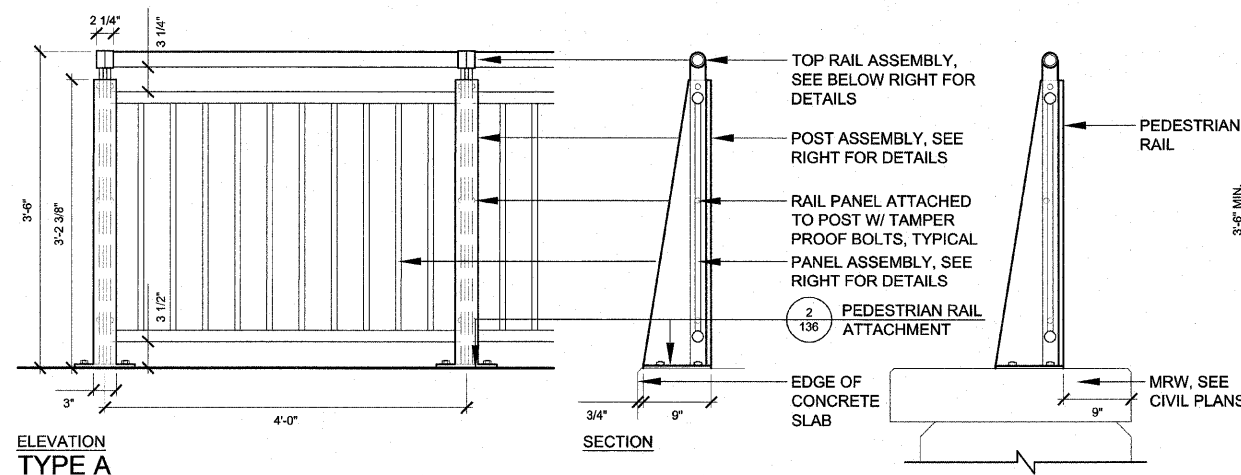
SHEET REVIEW	
AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

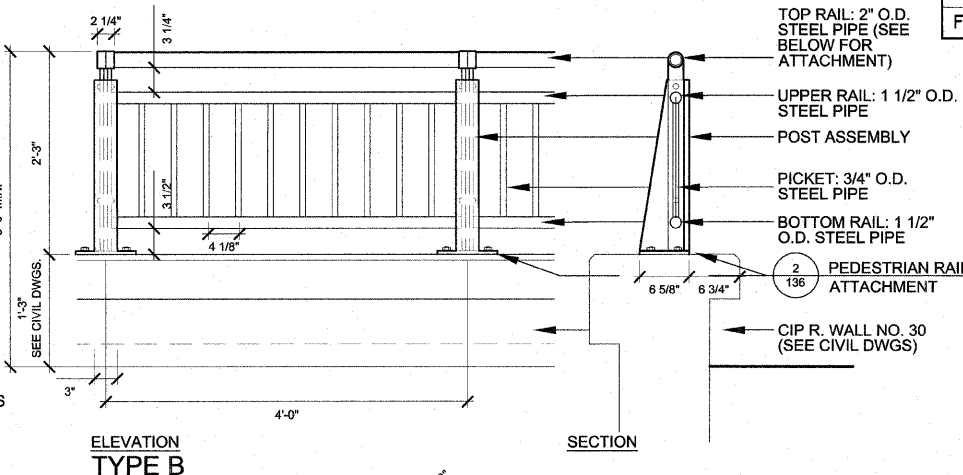
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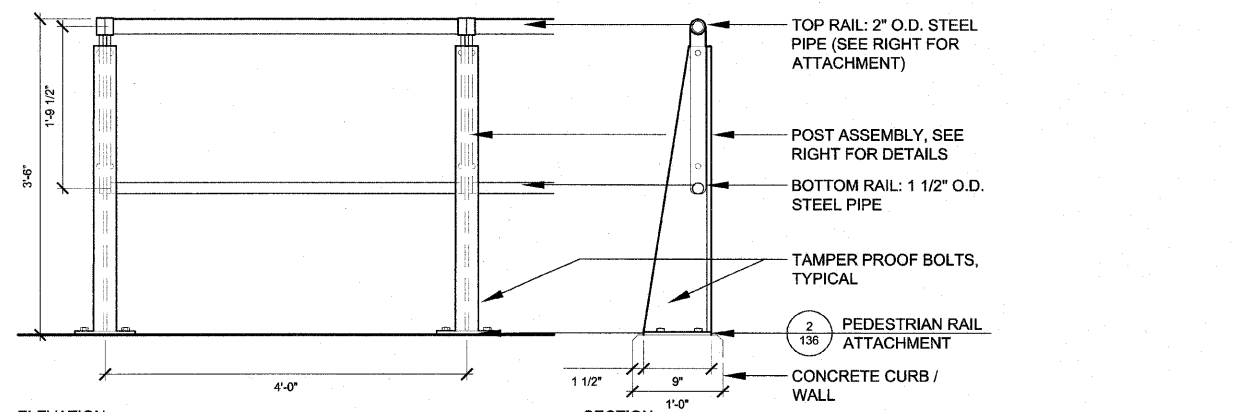
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RIVERWALK MUSEUM CAMPUS		
711 NORTH MAIN STREET		
FILE:		JOB: 04-28-10-008



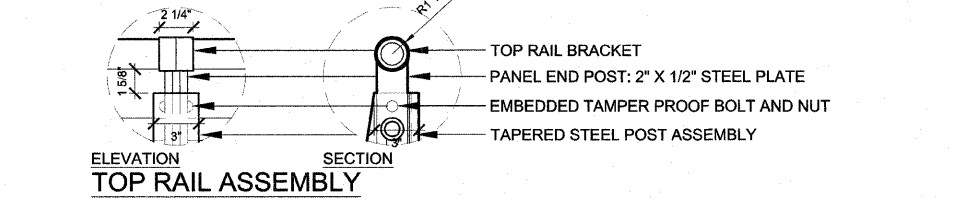
ELEVATION TYPE A



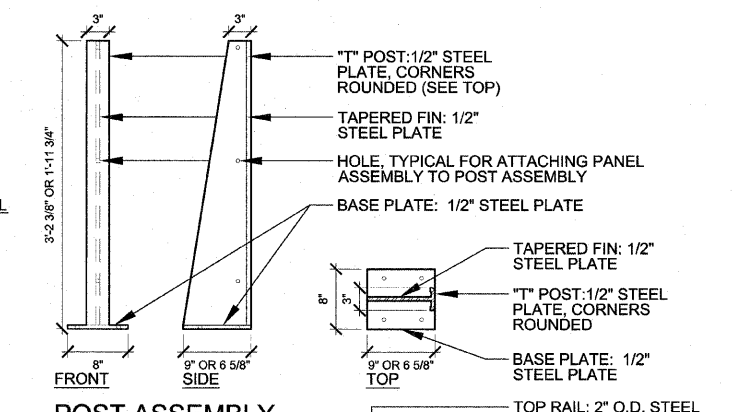
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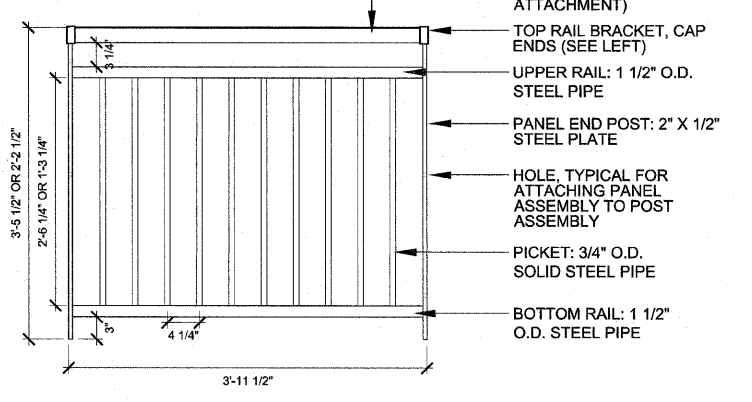
ELEVATION TYPE C



ELEVATION TOP RAIL ASSEMBLY



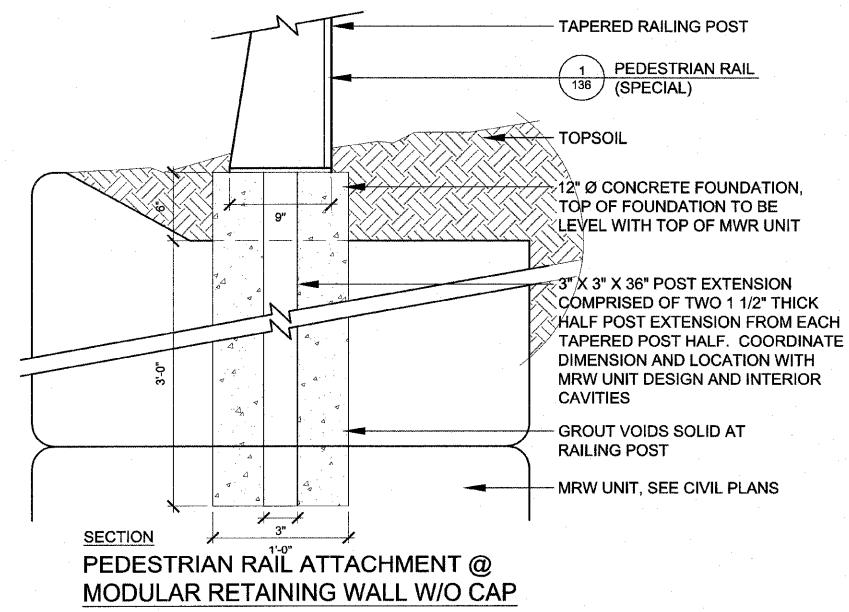
POST ASSEMBLY



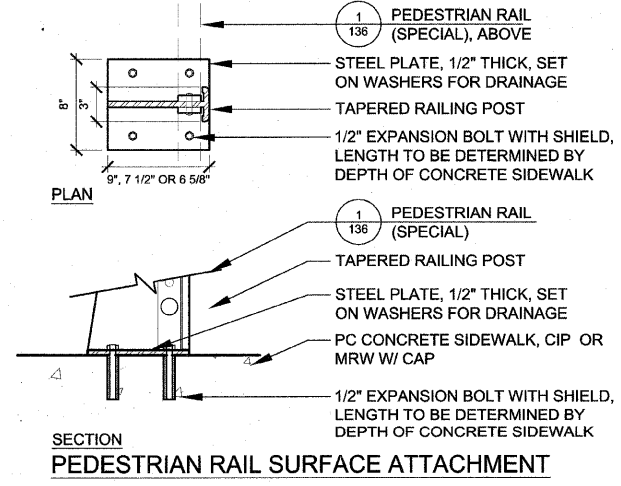
PANEL ASSEMBLY

- NOTES:**
- HEIGHT OF RAIL TO BE 42\"/>
  - RAILING PANELS TO BE STRAIGHT SEGMENTS UNLESS NOTED OTHERWISE. RADIAL RAILING PANELS TO FOLLOW THE RADII OF ADJACENT WALLS, WALKS, ETC (SEE CIVIL DWGS FOR LAYOUT).
  - POSTS AND PICKETS TO BE PLUMB AND TRUE. PANEL ASSEMBLY TO BE RACKED IN AREAS WHERE THE RAILING IS TO FOLLOW THE GRADE (SEE MATERIAL CALLOUT PLAN FOR LOCATIONS).
  - ALL RAILING MATERIALS TO BE STEEL. WELD POST AND PANEL ASSEMBLIES TOGETHER (I.E. POST TO BASE PLATE, PICKETS TO RAILS W/ TERMINAL ENDS CAPS). THOROUGHLY GRIND SMOOTH, AND POLISH ALL WELDED CONNECTIONS.
  - POST AND PANEL ASSEMBLIES TO BE CONNECTED TOGETHER WITH EMBEDDED NUTS AND BOLTS. ALL HARDWARE SHALL BE TAMPER PROOF STAINLESS STEEL.
  - ALL RAILING COMPONENTS TO BE PREPARED, PRIMED AND POWDER COATED. COLOR TO BE SILVER.
  - CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
  - RAILING TYPES A, B & C TO BE PAID FOR AS PEDESTRIAN RAIL (SPECIAL).

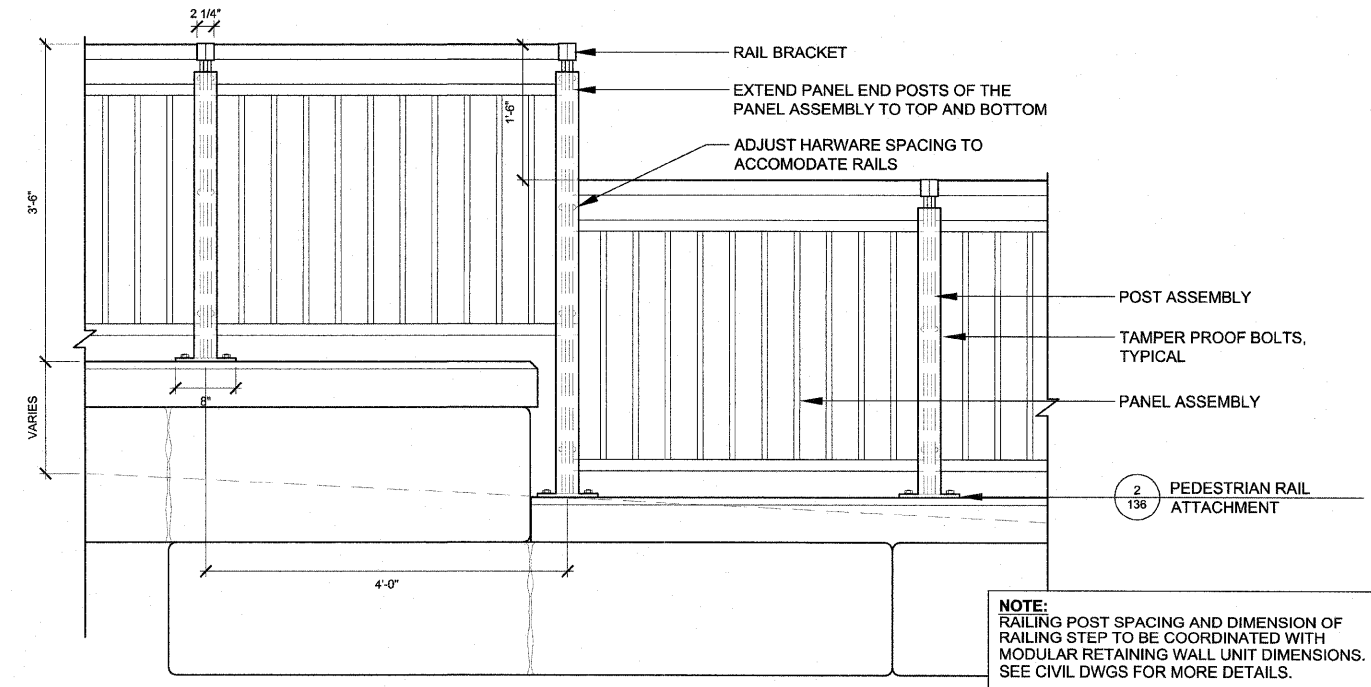
**1 PEDESTRIAN RAIL, SPECIAL**  
Scale: 1" = 1'-0"



**2 PEDESTRIAN RAIL ATTACHMENT**  
Scale: 1 1/2" = 1'-0"



SECTION PEDESTRIAN RAIL SURFACE ATTACHMENT



**3 PEDESTRIAN RAIL STEP**  
Scale: 1" = 1'-0"

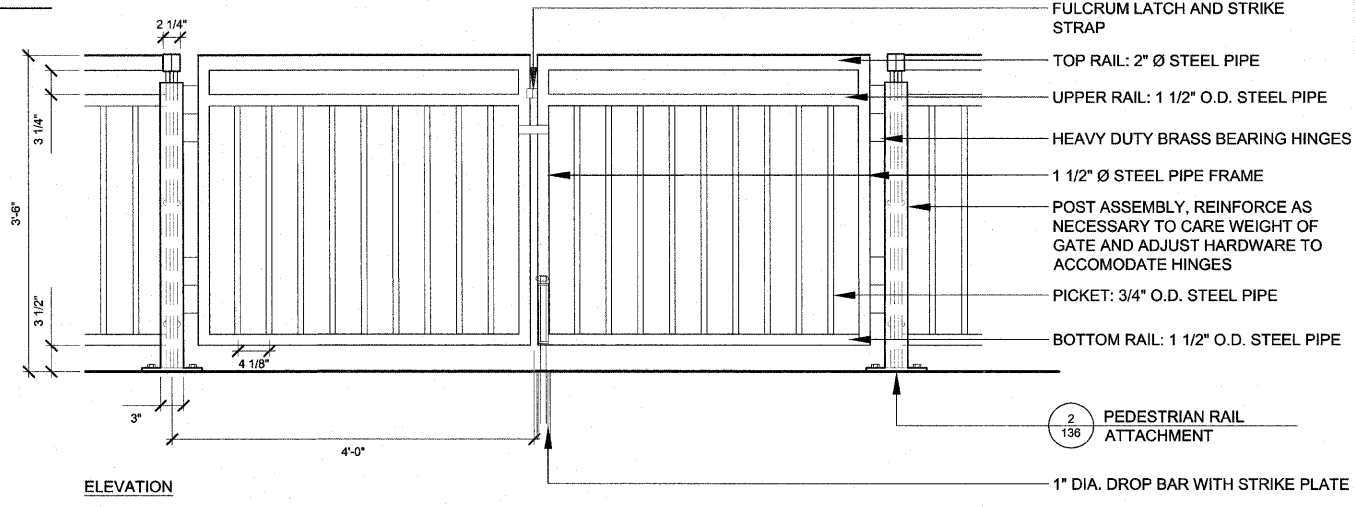
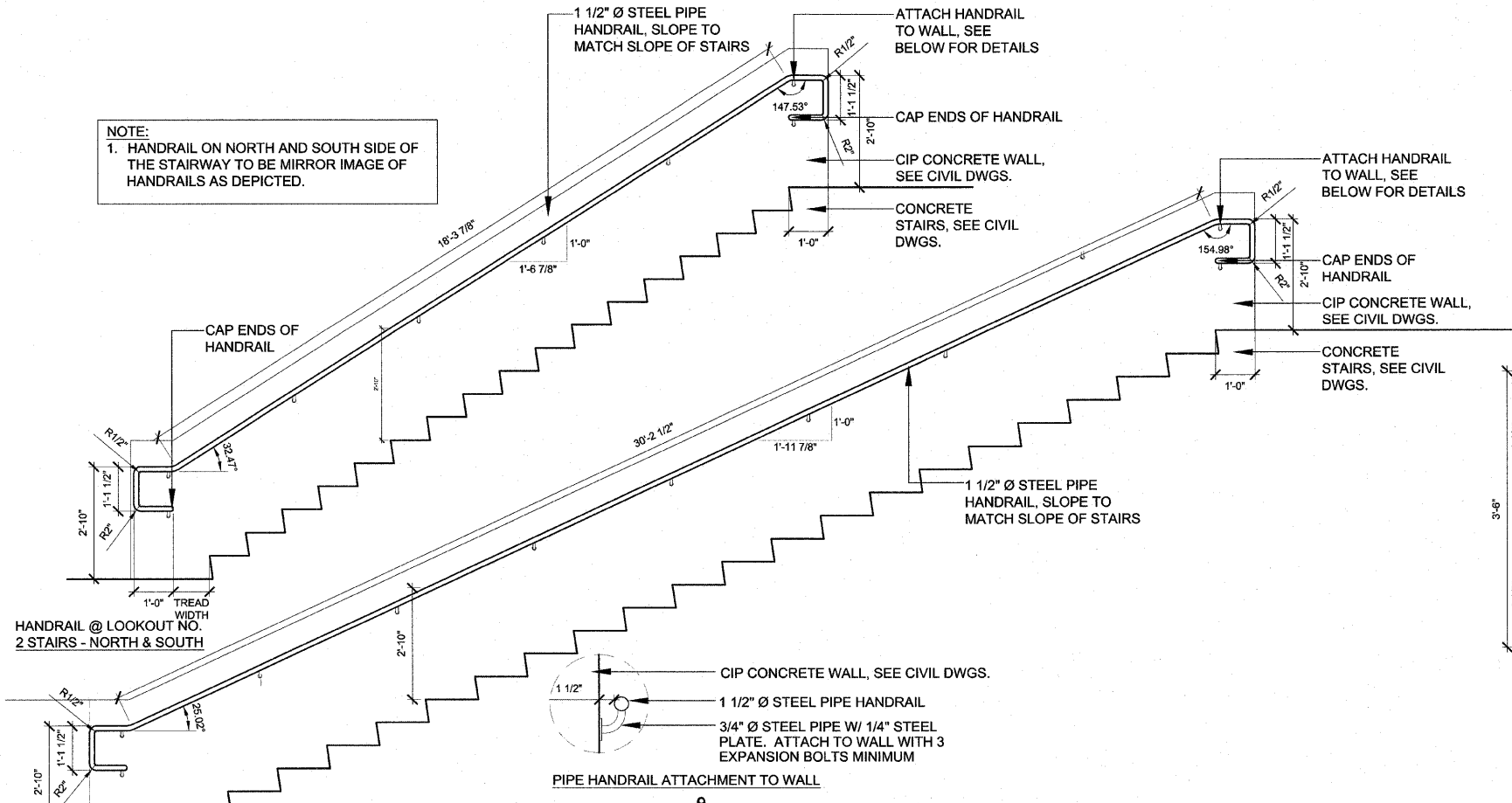
**NOTE:** RAILING POST SPACING AND DIMENSION OF RAILING STEP TO BE COORDINATED WITH MODULAR RETAINING WALL UNIT DIMENSIONS. SEE CIVIL DWGS FOR MORE DETAILS.

SHEET REVIEW	
AGENCY	DATE

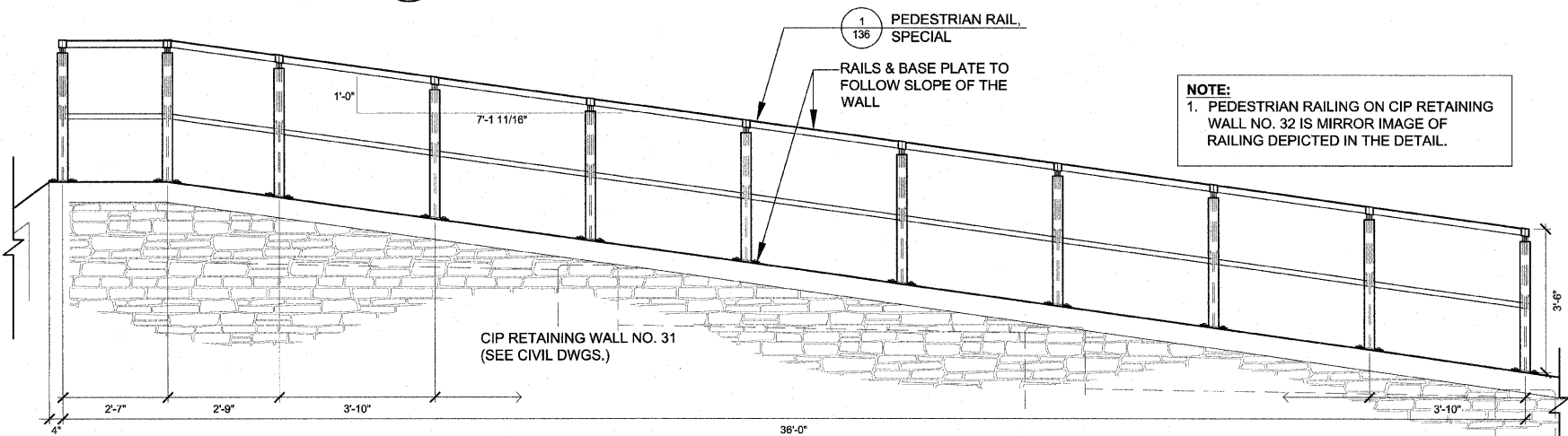
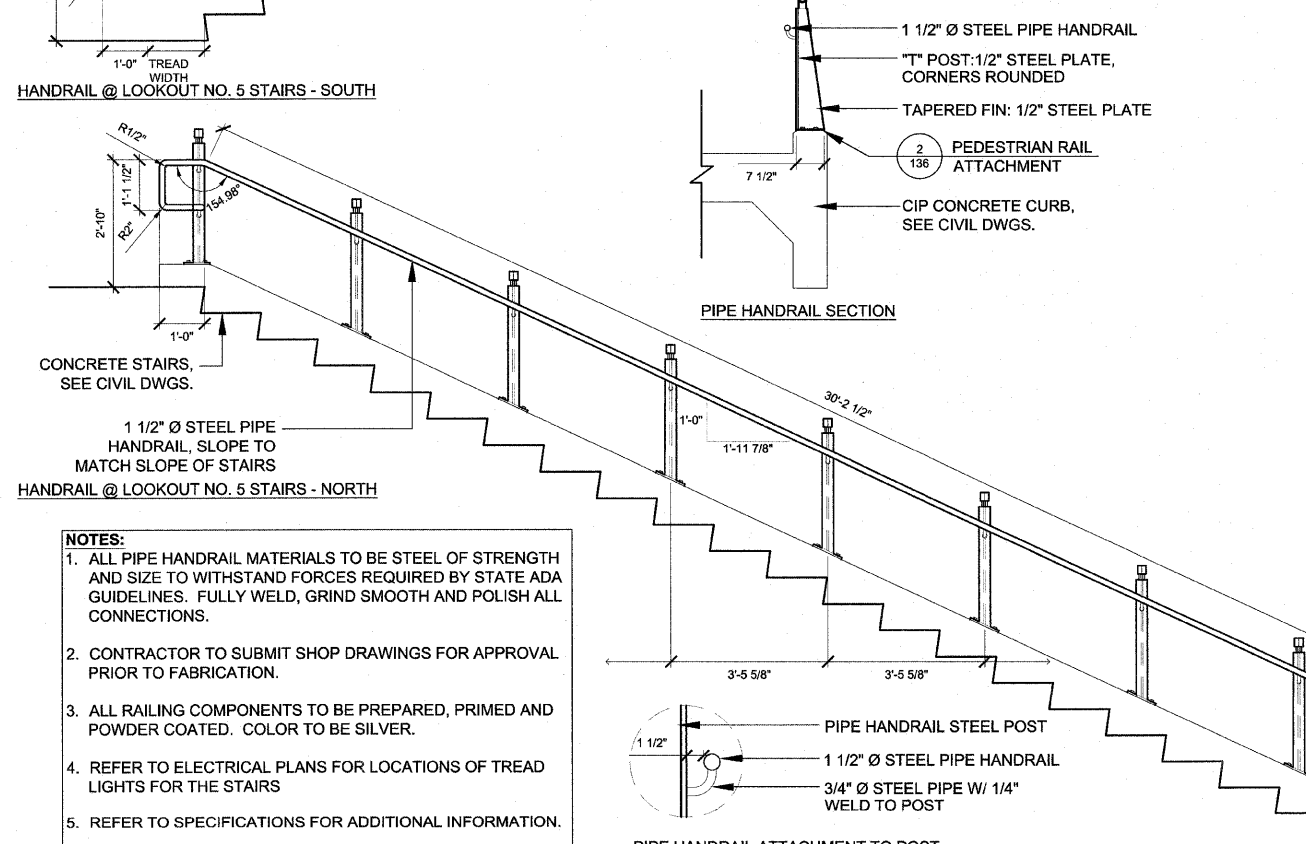
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NO.	ITEM	DATE

SCALE:	AS SHOWN
DRAWN BY:	MAF
CHECKED BY:	TCK
DATE:	9/3/2010

- NOTES:**
1. VERIFY WIDTH OF GATE WITH OWNER
  2. ALL GATE MATERIALS TO BE STEEL. FULLY WELD, GRIND SMOOTH AND POLISH ALL CONNECTIONS.
  3. GATE TO SWING TOWARD THE RIVER AND BE LOCKABLE IN BOTH OPEN AND CLOSED POSITIONS.
  4. CONTRACTOR TO SUBMIT SHOP DRAWINGS AND SUBMIT GATE HARDWARE PRODUCT SAMPLES AND DATA FOR APPROVAL PRIOR TO FABRICATION.
  5. ALL RAILING COMPONENTS TO BE PREPARED, PRIMED AND POWDER COATED. COLOR TO BE SELECTED BY OWNER (SILVER).
  6. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.



**2 GATE, SPECIAL**  
Scale: 1" = 1'-0"



**3 PEDESTRIAN RAIL, SPECIAL @ AMPHITHEATER**  
Scale: 1/2" = 1'-0"

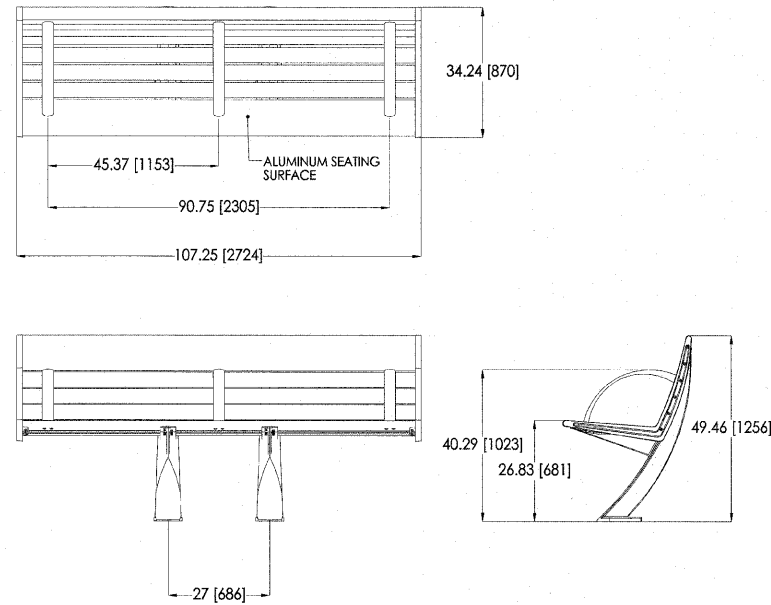
- NOTES:**
1. ALL PIPE HANDRAIL MATERIALS TO BE STEEL OF STRENGTH AND SIZE TO WITHSTAND FORCES REQUIRED BY STATE ADA GUIDELINES. FULLY WELD, GRIND SMOOTH AND POLISH ALL CONNECTIONS.
  2. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
  3. ALL RAILING COMPONENTS TO BE PREPARED, PRIMED AND POWDER COATED. COLOR TO BE SILVER.
  4. REFER TO ELECTRICAL PLANS FOR LOCATIONS OF TREAD LIGHTS FOR THE STAIRS
  5. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

**1 PIPE HANDRAIL, SPECIAL**  
Scale: 1/2" = 1'-0"

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SCALE:	AS SHOWN
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CHECKED BY:	TCK
DATE:	9/3/2010



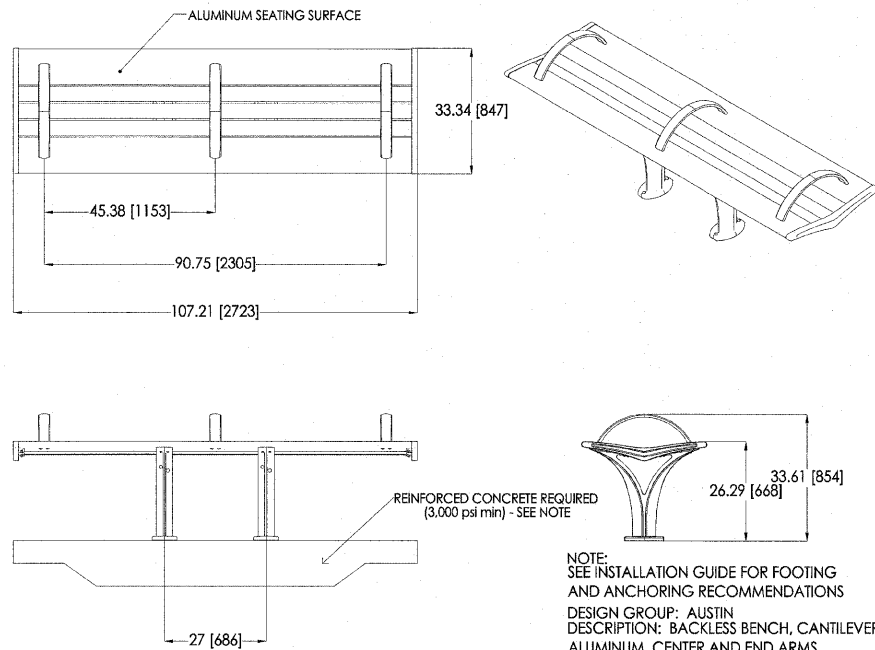
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**1 BENCH WITH BACK**  
Scale: not to scale

d-austin bench AU454-03.dwg



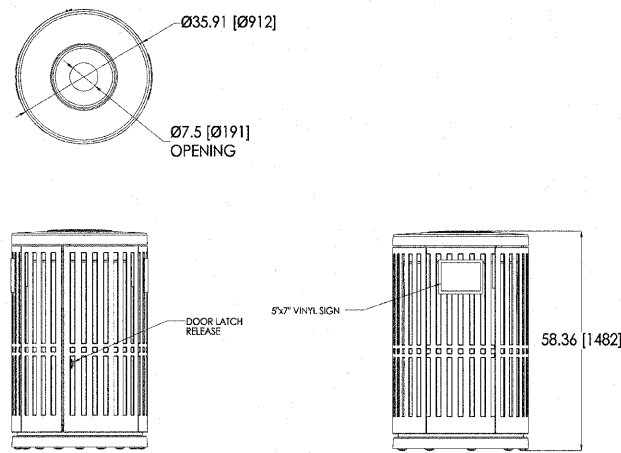
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**2 BENCHES**  
Scale: not to scale

d-austin bench-backless AU454-03.dwg



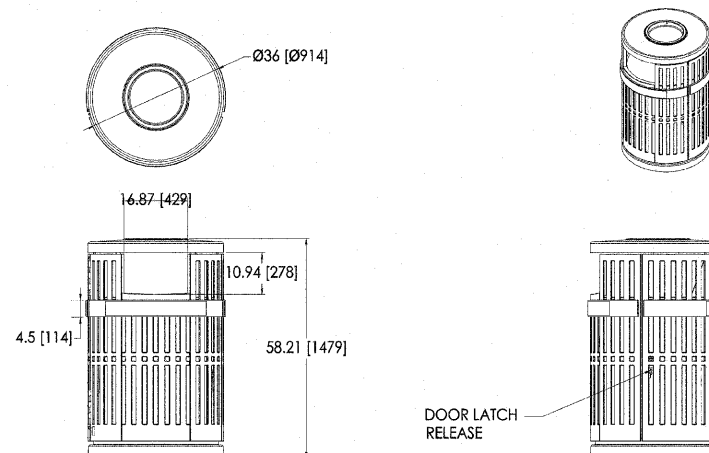
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**3 RECYCLING RECEPTACLE**  
Scale: not to scale

d-recycle receptacle recycling-CP303-01-HOL.dwg



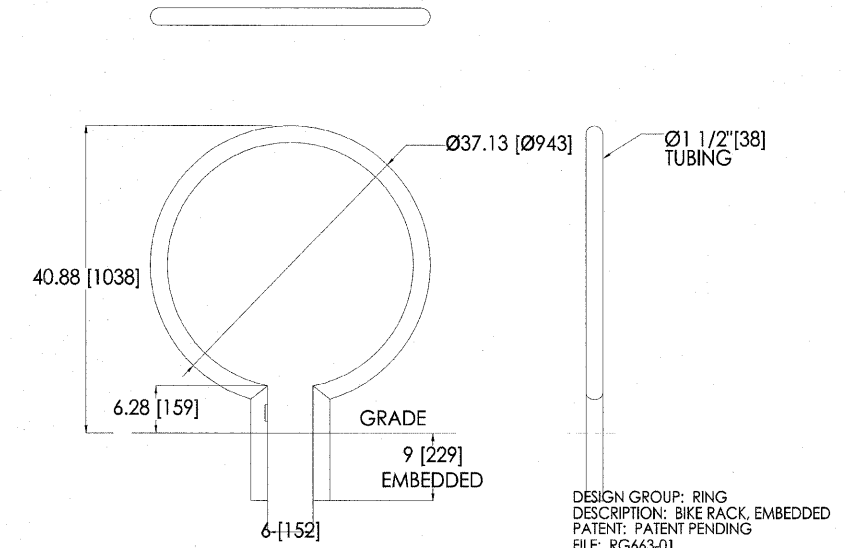
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**4 TRASH RECEPTACLES**  
Scale: not to scale

d-recycle receptacle-filter-CP302-08.dwg



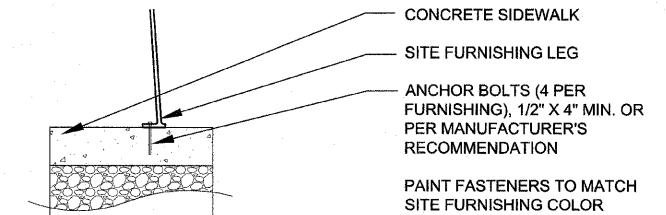
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**5 BICYCLE RACKS**  
Scale: not to scale

d-bike rack



**6 SITE FURNISHING ATTACHMENT**  
Scale: 1" = 1'-0"

d-site furnishing-attach

NOTE: MODELS AND MANUFACTURER'S SHOWN ARE FOR ILLUSTRATIVE PURPOSES TO SHOW DESIGN INTENT. OTHER MANUFACTURER'S MAY BE ALLOWED IF SHOWN TO BE EQUAL IN QUALITY, FUNCTION AND STYLE AS APPROVED BY THE OWNER'S REPRESENTATIVE.

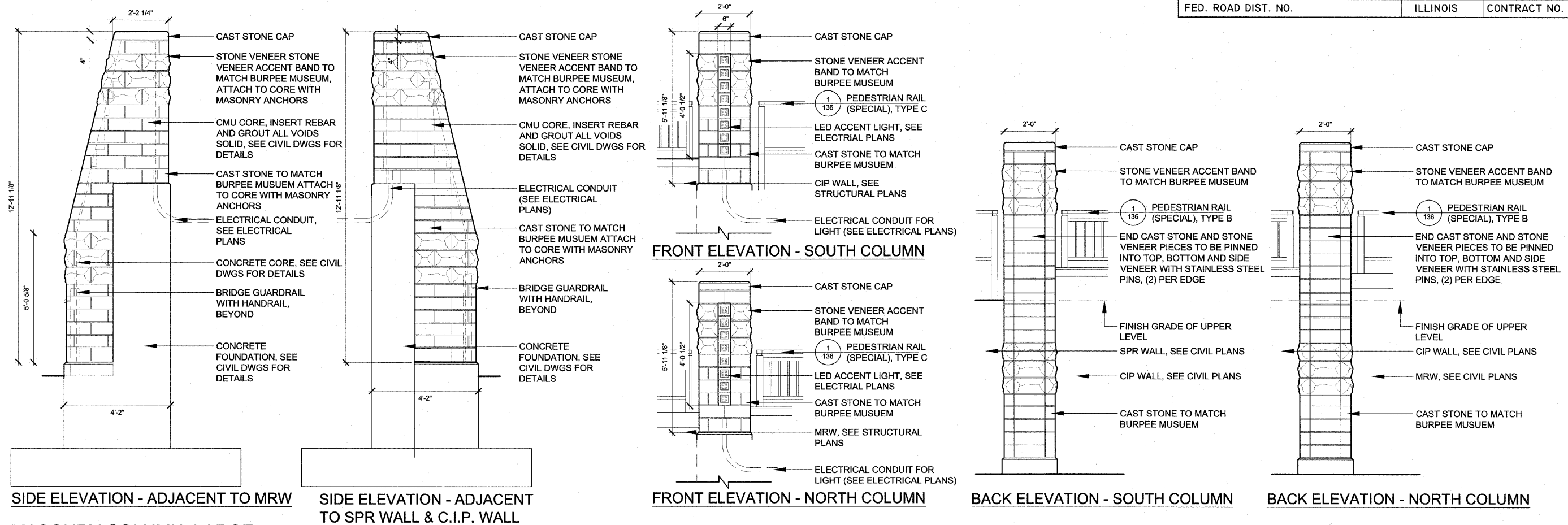
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AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

SCALE:	AS SHOWN
DRAWN BY:	MAF
CHECKED BY:	TCK
DATE:	9/3/2010

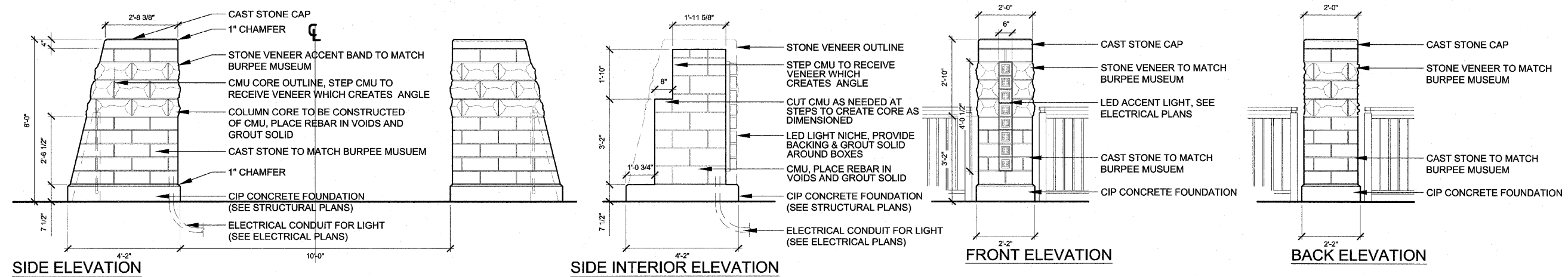
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SITE FURNISHING DETAILS	
RIVERWALK MUSEUM CAMPUS	
711 NORTH MAIN STREET	ROCKFORD, IL
FILE:	JOB: 04-28-10-008



**1 MASONRY COLUMN, LARGE**  
Scale: 1/2" = 1'-0"

- NOTES:**
- COLUMNS TO BE MIRROR IMAGE ON CENTERLINE OF BRIDGE.
  - CONTRACTOR TO SUBMIT SHOP DRAWINGS OF LARGE AND SMALL COLUMNS DEPICTING DIMENSIONS OF COLUMN ELEMENTS INCLUDING CAST STONE, STONE VENEER, INTERIOR CMU CORE WITH REBAR AND GROUT IN VOIDS TO BE USED AND LED ACCENT LIGHT.
  - CONTRACTOR TO SUBMIT SHOP DRAWINGS/CUT SHEETS AND SAMPLES OF CAST STONE, STONE VENEER, AND LED ACCENT LIGHT.
  - CMU REFERS TO CONCRETE MASONRY UNIT, SEE SPECIFICATIONS FOR MORE DETAIL.



**2 MASONRY COLUMN, SMALL**  
Scale: 1/2" = 1'-0"

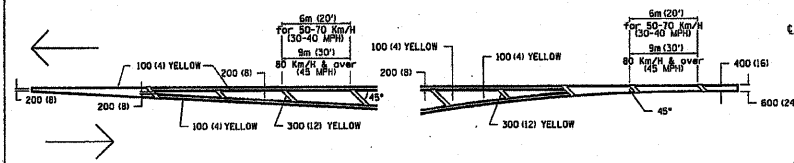
SHEET REVIEW	
AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

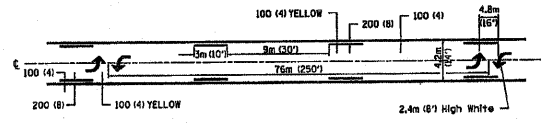
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DRAWN BY:	MAF
CHECKED BY:	TCK
DATE:	9/3/2010

### TYPICAL PAVEMENT MARKINGS

#### TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

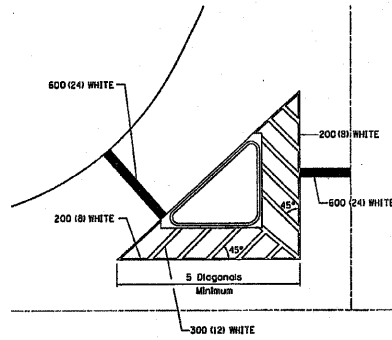


#### MEDIAN PAVEMENT MARKING

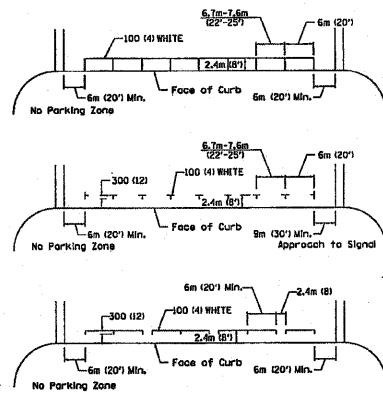


\*\* ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

#### TYPICAL ISLAND OFFSET SHOULDER WIDTH

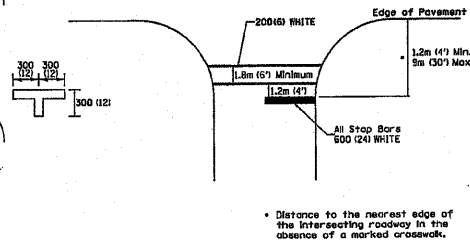


#### TYPICAL PARKING SPACING



#### STANDARD CROSSWALK MARKING

See Schedules for Locations

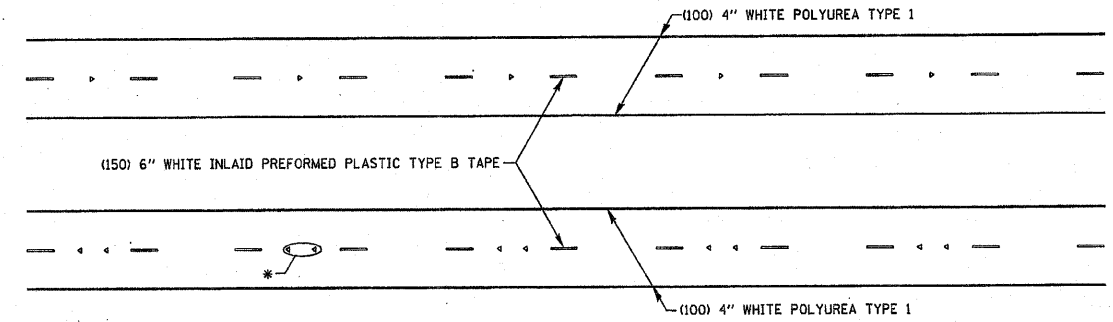


\* Distances to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME	DESIGNED	REVISION	DATE	STATE OF ILLINOIS	REGION 2 / DISTRICT 2 STANDARD	SHEET NO.	OF SHEETS	SCALE	TO STA.	CONTRACT NO.
06-00543-00-BT	MS	MS	08-21-08	DEPARTMENT OF TRANSPORTATION		41	3	AS SHOWN		85521

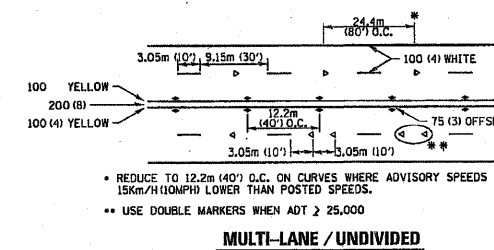
TYPICAL PAVEMENT MARKINGS SHEET 1 OF 3 41.1

### TYPICAL PAVEMENT MARKINGS

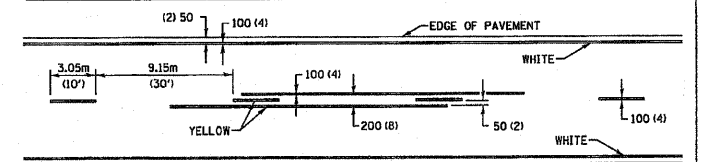


\* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS. USE DOUBLE MARKERS WHEN ADT ≥ 25,000.

#### MULTI-LANE / DIVIDED



#### TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



SYMBOLS

\* REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15km/h (10MPH) LOWER THAN POSTED SPEEDS.  
\*\* USE DOUBLE MARKERS WHEN ADT ≥ 25,000

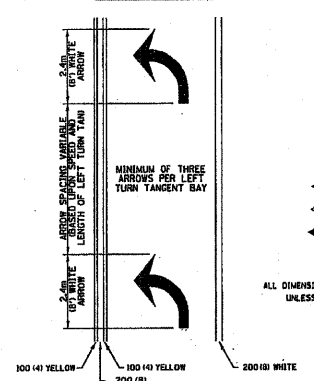
#### MULTI-LANE / UNDIVIDED

FILE NAME	DESIGNED	REVISION	DATE	STATE OF ILLINOIS	REGION 2 / DISTRICT 2 STANDARD	SHEET NO.	OF SHEETS	SCALE	TO STA.	CONTRACT NO.
06-00543-00-BT	MS	MS	08-21-08	DEPARTMENT OF TRANSPORTATION		41	3	AS SHOWN		85521

TYPICAL PAVEMENT MARKINGS SHEET 3 OF 3 41.1

### TYPICAL PAVEMENT MARKINGS

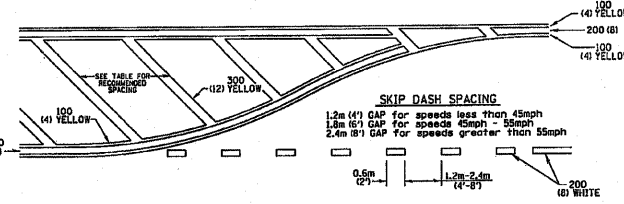
#### ARROW LAYOUT



MINIMUM OF THREE ARROWS PER LEFT TURN TANGENT BAY  
ONE-WAY AMBER MARKER  
ONE-WAY CRISTAL MARKER  
TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

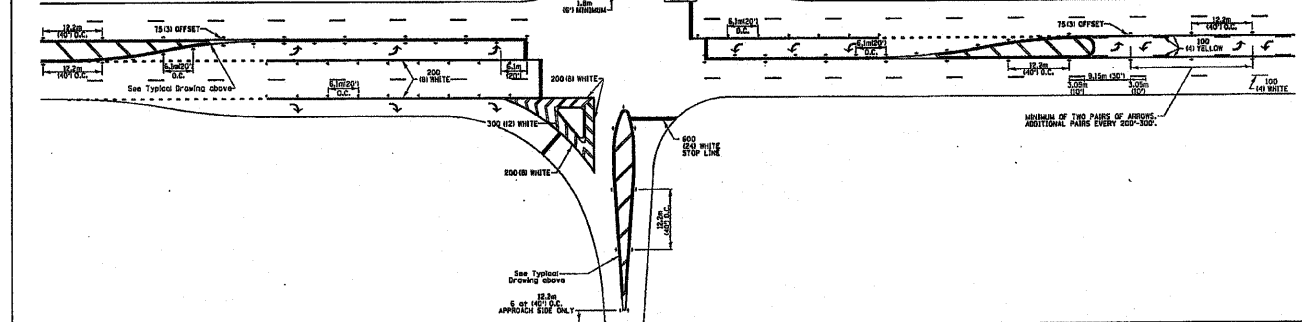
#### TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



#### RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Arc	Intersection Channelization	Objects (Islands)
less than 50km/h (30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-80km/h (30-40MPH)	22.9m (75')	6.1m (20')	4.53m (15')
70km/h (45MPH) & over	22.9m (75')	9.05m (30')	6.1m (20')

NOTE: If the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



FILE NAME	DESIGNED	REVISION	DATE	STATE OF ILLINOIS	REGION 2 / DISTRICT 2 STANDARD	SHEET NO.	OF SHEETS	SCALE	TO STA.	CONTRACT NO.
06-00543-00-BT	MS	MS	08-21-08	DEPARTMENT OF TRANSPORTATION		41	3	AS SHOWN		85521

TYPICAL PAVEMENT MARKINGS SHEET 2 OF 3 41.1

#### SHEET REVIEW

AGENCY	DATE

#### REVISIONS

NO.	ITEM	DATE

SCALE:	N/A
DRAWN BY:	MS
CHECKED BY:	JMH
DATE:	AUGUST 13, 2010

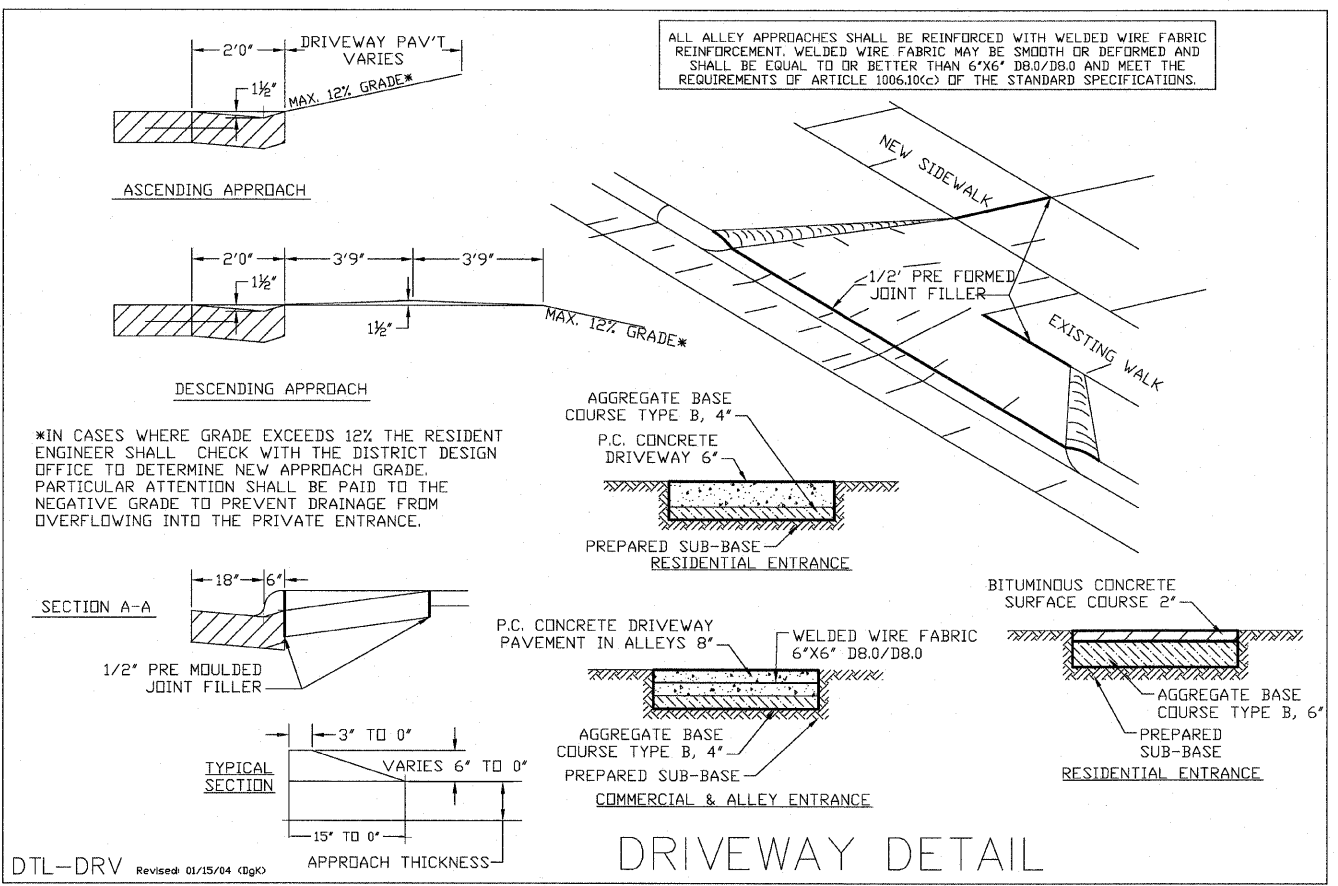
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#### PAVEMENT MARKINGS

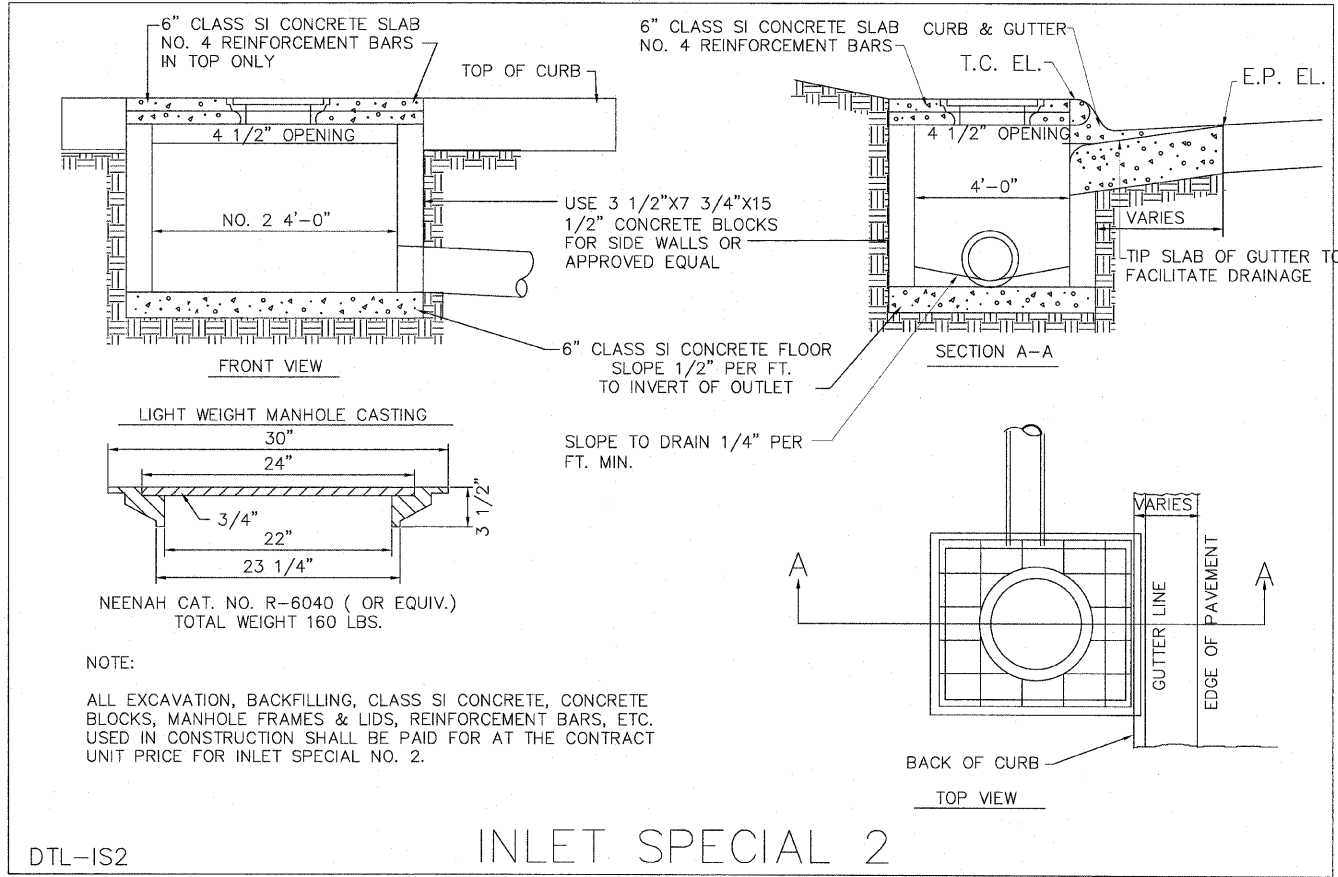
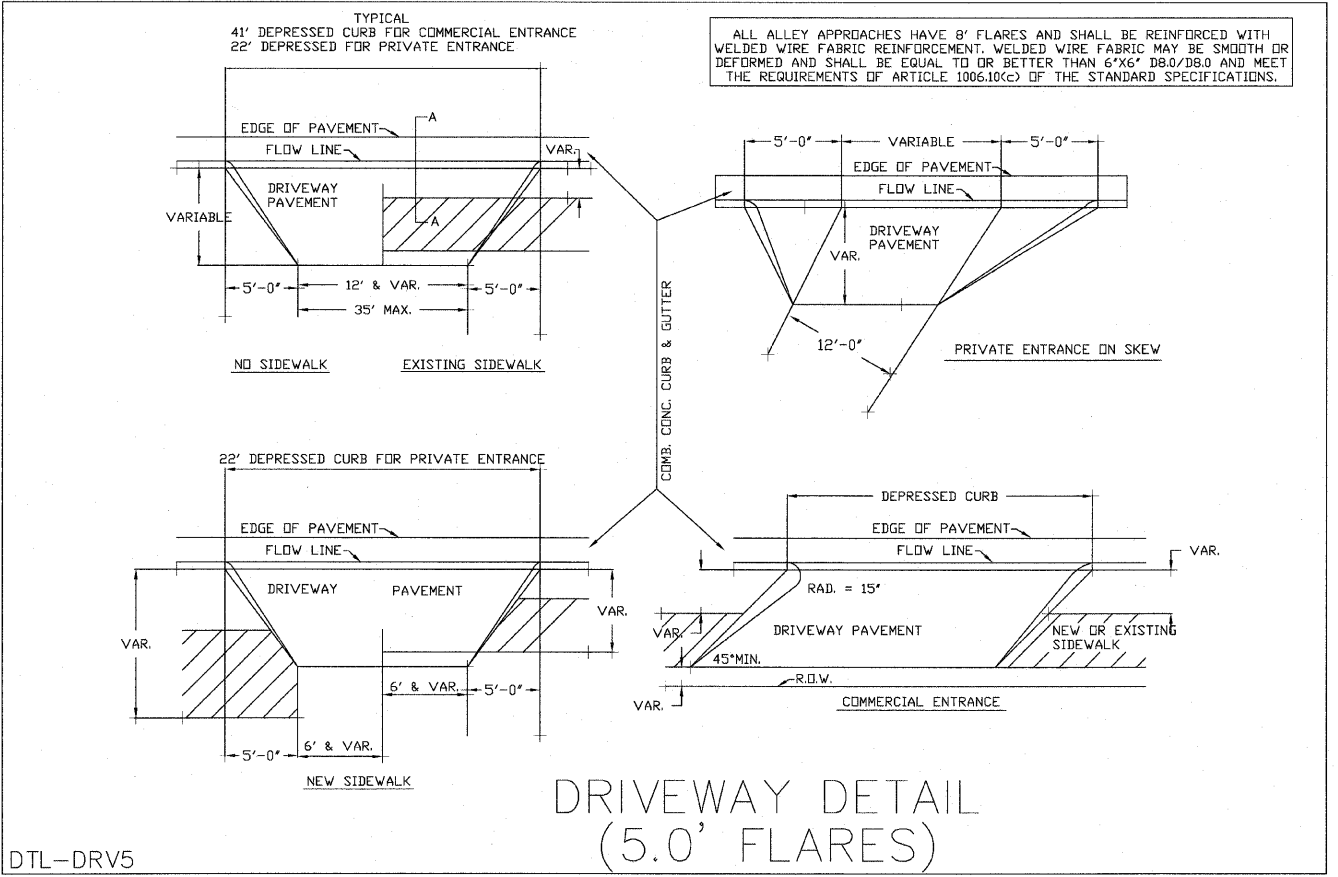
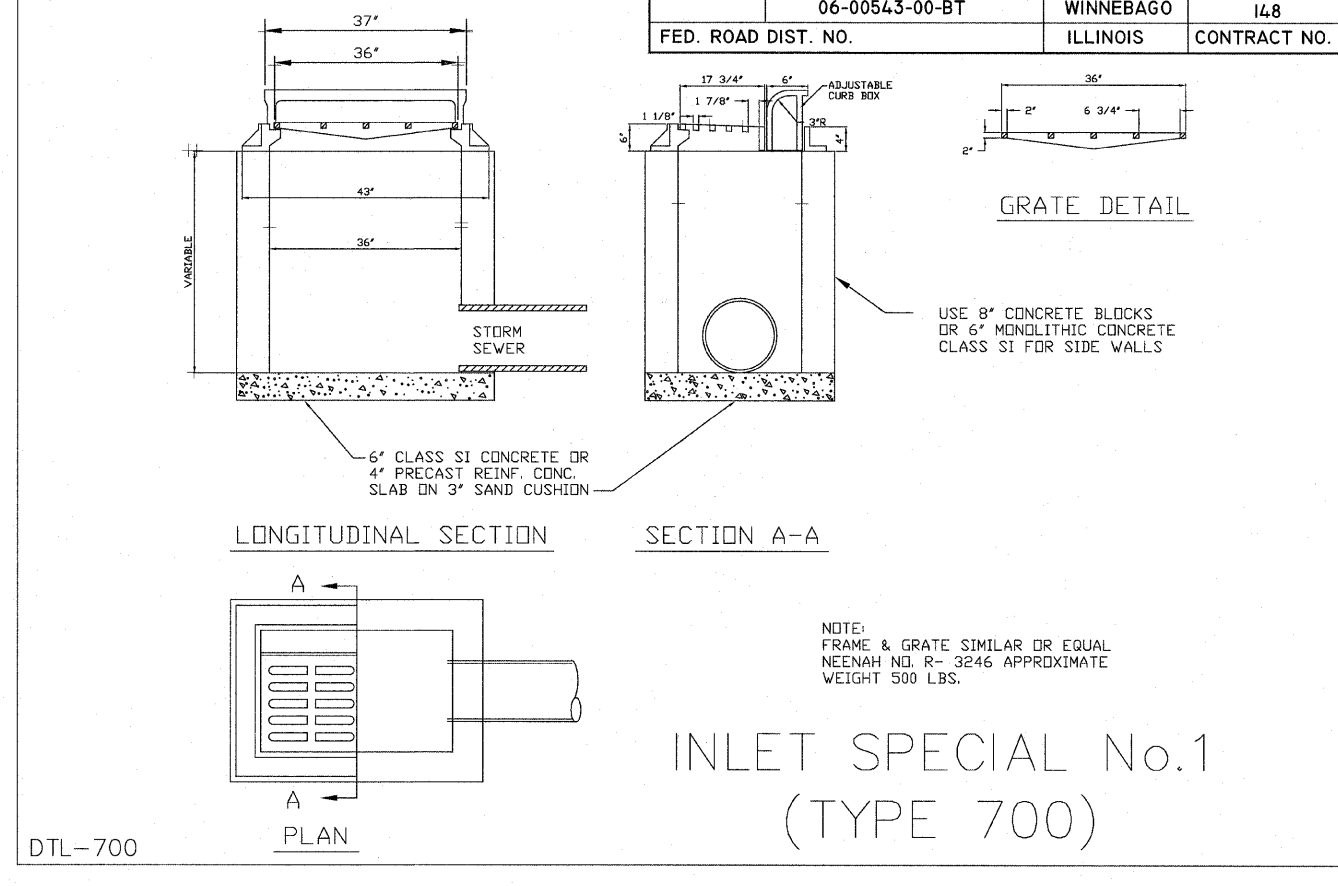
711 NORTH MAIN STREET	ROCKFORD, IL
FILE:H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 PAVEMENT MARKINGS DETAILS.DWG	JOB:04-28-10-008

SHEET NO.  
140  
OF  
148





DRIVEWAY DETAIL



H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 ROCKFORD DETAILS.DWG, DETAILS - CITY OF ROCKFORD, 11/1/2010 3:53:52 PM, H.L. JWH

SHEET REVIEW		REVISIONS		SCALE: N/A		<p>McClure Engineering Associates, Inc. 2782 Argus Drive Rockford, Illinois 61107-5837 (815) 398-2332 FAX (815) 398-2496 Design Firm License: Illinois 184-000816 Copyright 2010 By McClure Engineering Associates, Inc.</p>	DETAILS - CITY OF ROCKFORD		SHEET NO. 141 OF 148
AGENCY	DATE	NO.	ITEM	DATE	DRAWN BY: MS		RIVERWALK MUSEUM CAMPUS		
					CHECKED BY: JWH		711 NORTH MAIN STREET ROCKFORD, IL		
					DATE: AUGUST 13, 2010		FILE: H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 ROCKFORD DETAILS.DWG		
						JOB: 04-28-10-008			

**GENERAL NOTES**

DEPRESSED CURBS – The top of curbs shall be depressed where the curb and gutter is constructed across alleys and for private drives or where directed by Engineer.

THICKNESS – "t" = Thickness of pavement.

DRAINAGE OPENINGS – At all location where castings are to be incorporated in the curb and gutter, a 1" expansion joint shall be installed in the curb and gutter a distance of 5 ft. from each side of the casting. At least 2 tie bar shall be placed in the 5 ft. portion and the bars shall be at least 9" from the joint or casting. Any extra bars required shall be considered incidental. When the width of the casting is less than the width of the curb and gutter 2-No. 4 re-bar (L = 12" + casting length + 12") shall be incorporated in the continuous portion of concrete gutter in front of the casting.

TIE BARS – Tie bars shall be in accordance with details for Bulkhead Longitudinal Construction joint shown of Standard 420001-03. When curb and gutter is constructed adjacent to flexible pavement tie bar shall be omitted.

JOINTS – In addition to the requirements of Article 606.06 of the Standard Specification joints shall be constructed as follows:

Contraction joint and expansion joints shall be installed in the curb and gutter in prolongation with joints in adjacent PCC pavement or base course except that dowel bars will not be required in contraction joints. Contraction joints when sewed or template formed shall be sealed in accordance with Article 420.14(a) of the Standard Specifications.

When curb and gutter is constructed adjacent to flexible pavement, a 1" expansion joint shall be installed at points of curvature for short-radius curves and at construction joints. Contraction joints shall be placed between expansion joints at distances not to exceed 25 ft

All expansion joints shall be constructed with a minimum 1" thick preformed expansion joint filler conforming to the cross section of the curb and gutter and shall be provided with a 1-1/4" diameter x 18" coated smooth dowel bar conforming to Article 1006.11(b) of the Standard Specifications. The greased end of the dowel bar shall be fitted with a cap having a pinched stop that will provide a minimum 1" of expansion.

Construction joints constructed in curb and gutter adjacent to PCC pavement and PCC base course shall be provided with No. 4 deformed steel tie bars 30" long. Tie bars shall be placed on 9" + centers (minimum 2 per joint).

TRANSITIONS – The transition from full height curb to depressed curb shall be made at the rate of 3" per foot of length or flatter.

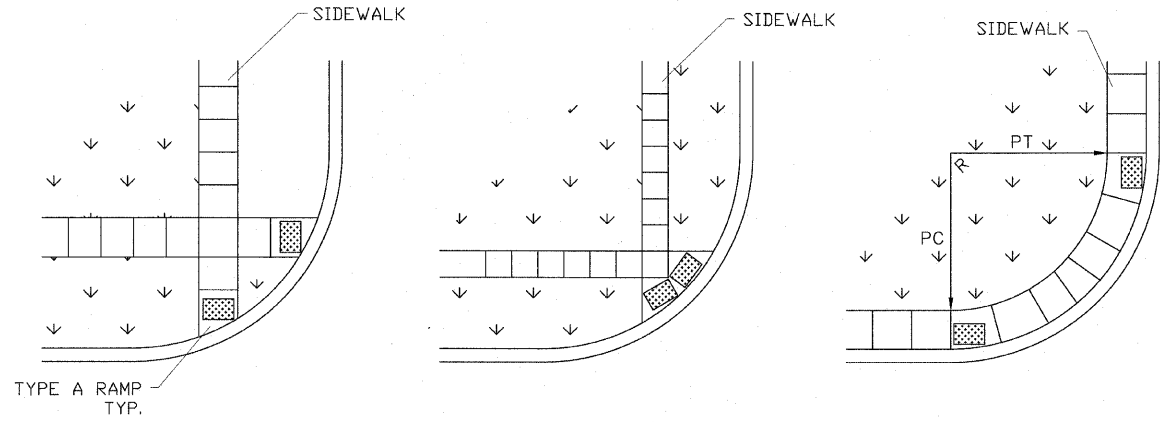
ADJACENT PCC PAVEMENT – Adjacent PCC pavement or base course less than 1" in width shall be constructed monolithic with the curb and gutter. This area of pavement will be included in the measured area of the adjacent pavement.

MONOLITHIC CONSTRUCTION – Curb and combination curb and gutter may be constructed monolithically with PCC pavement at the option of the Contractor. Tie bar will not be required. Pavement reinforcement shall be extended laterally to within 3" to 5" from the back of the curb.

Curbs and combination curb and gutter may be constructed monolithically with PCC base course. Tie bar will be required. Tie bars shall be held in the proper location by support pins or approved mechanical means.

Longitudinal joints between the PCC pavement or PCC base course and curb or combination curb and gutter will not be required.

SLIPFORM CONSTRUCTION – Vertical faces may be battered at the rate of 3/4" per foot of height to aid in slipform operations.



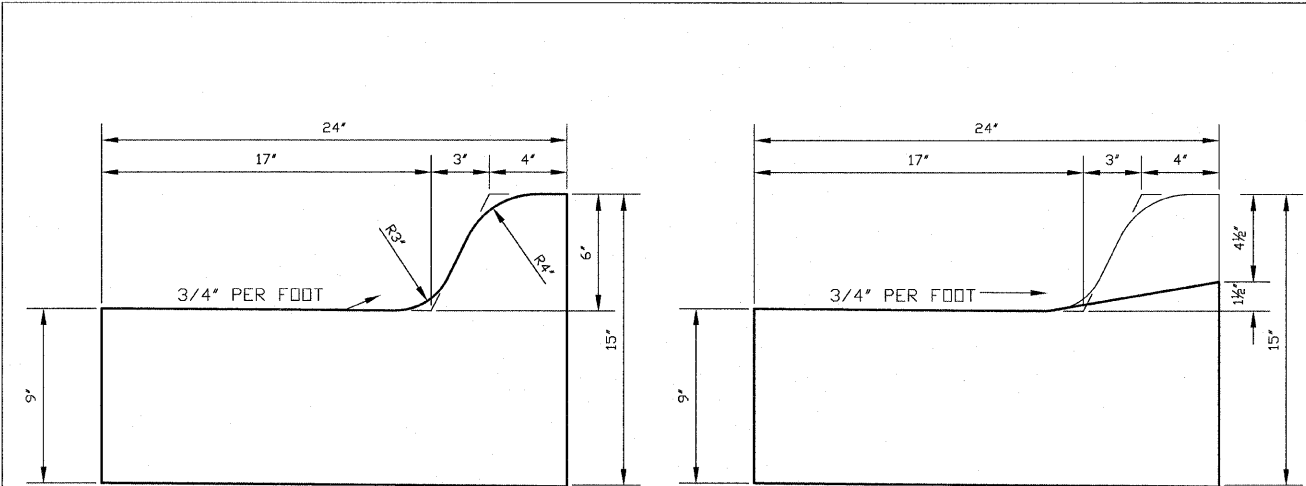
TYPE A RAMP TYP.

NOTE: MODIFICATION OF IDOT STD 424001-05

HATCHED AREAS OR DETECTABLE WARNINGS SHALL BE MANUFACTURED PRODUCTS SET IN THE POURED SIDEWALK. PROVIDE DETECTABLE WARNINGS MADE OF GLASS AND CARBON REINFORCED COMPOSITE, AS MANUFACTURED BY ADA SOLUTIONS, INC OF N. BILLERICA, MA OR EQUALLY APPROVED SUPPLIER. BOX JOISTS WITH POURED COLORED CONCRETE WILL NOT BE ALLOWED. PHYSICAL CHARACTERISTICS: COMPRESSIVE STRENGTH 28,900 PSI (ATSM D695), FLEXURAL STRENGTH 29,300 PSI (ATSM D790), SLIP RESISTANCE 1.18 DRY/1.05 WET (ATSM C1028).

**ADA CURB RAMP DETAIL FOR INTERSECTIONS**

DTL-ADARAMP09.dwg



Combination Concrete Curb & Gutter, Type M6.18 Modified

DTL-CURB M6.18

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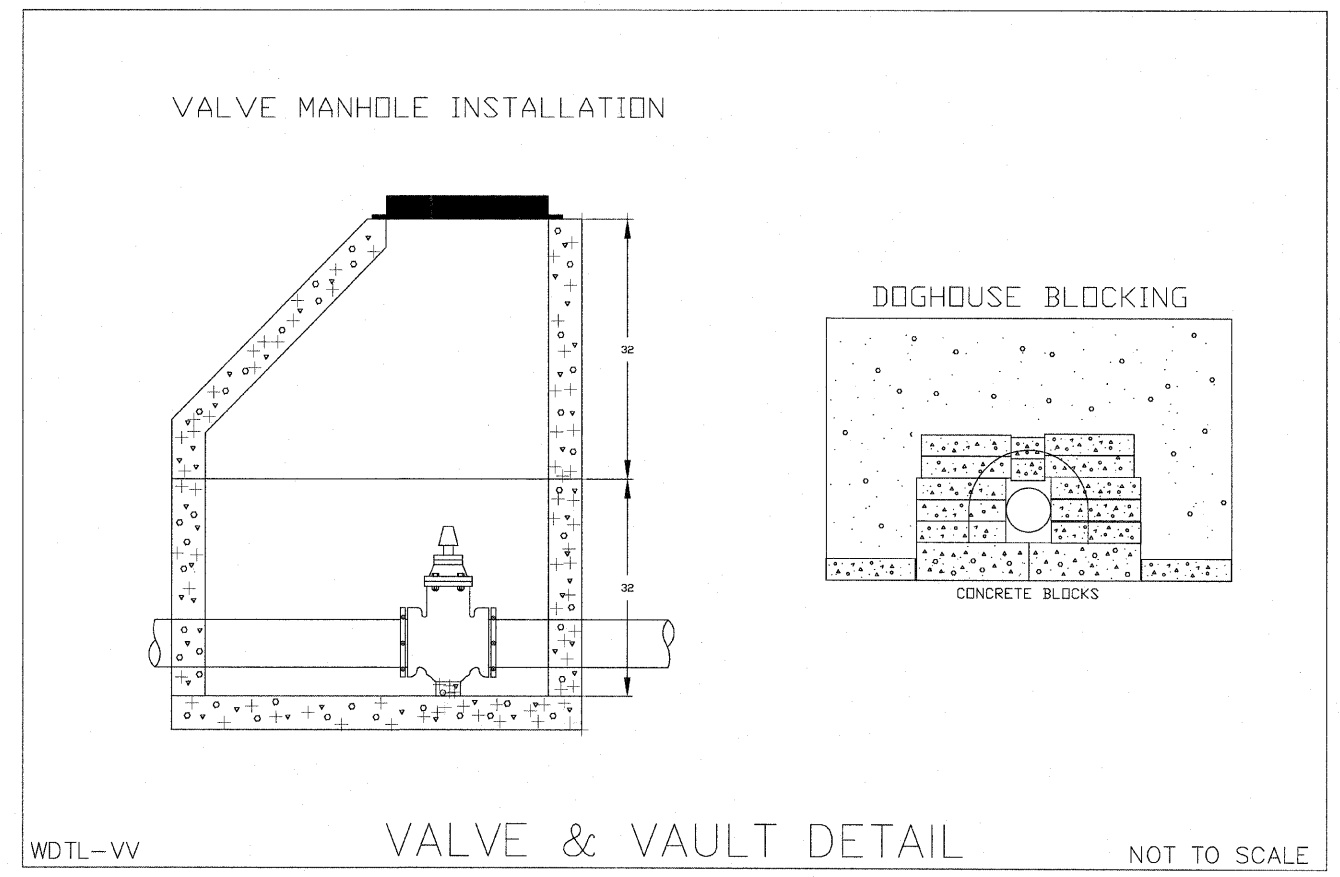
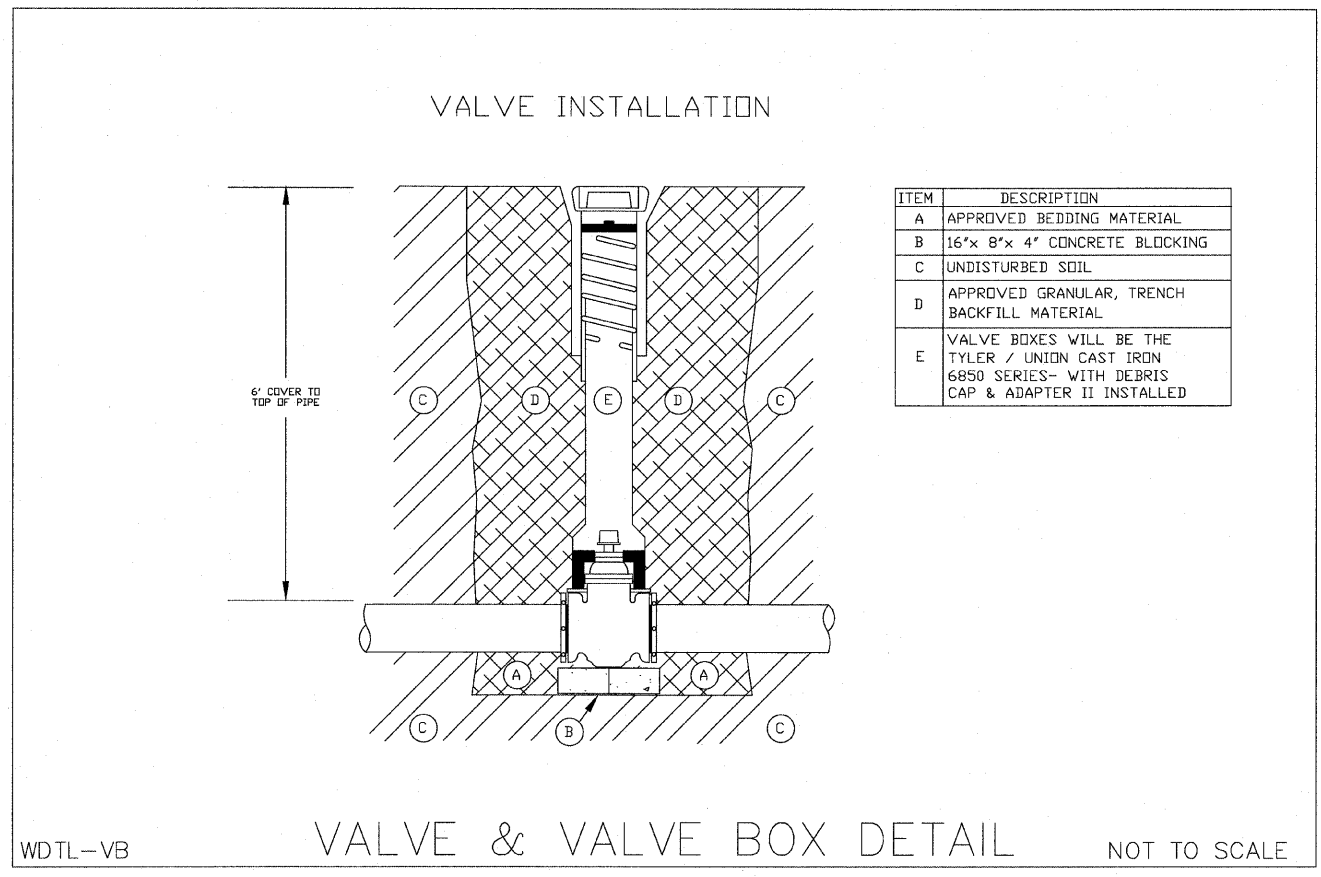
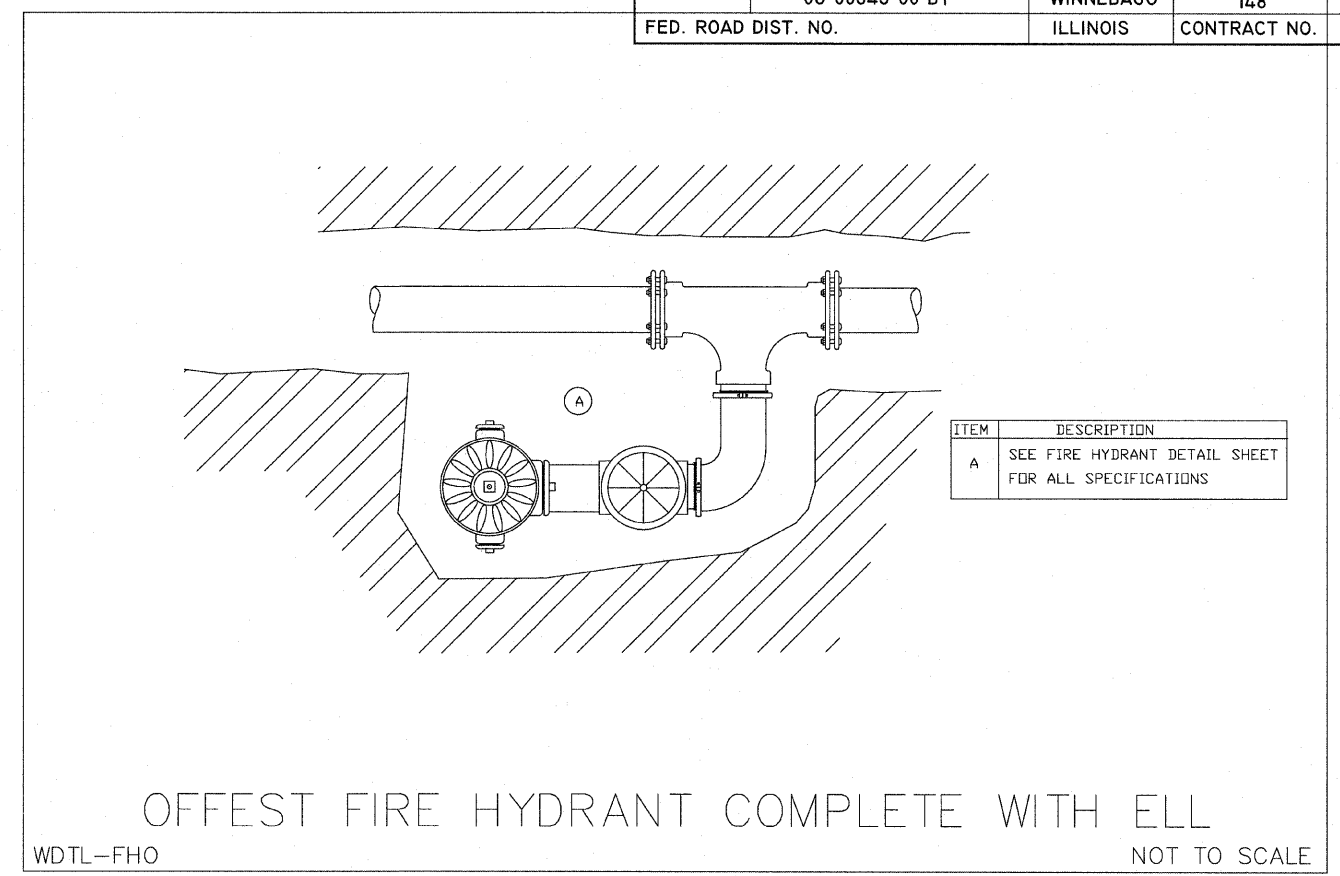
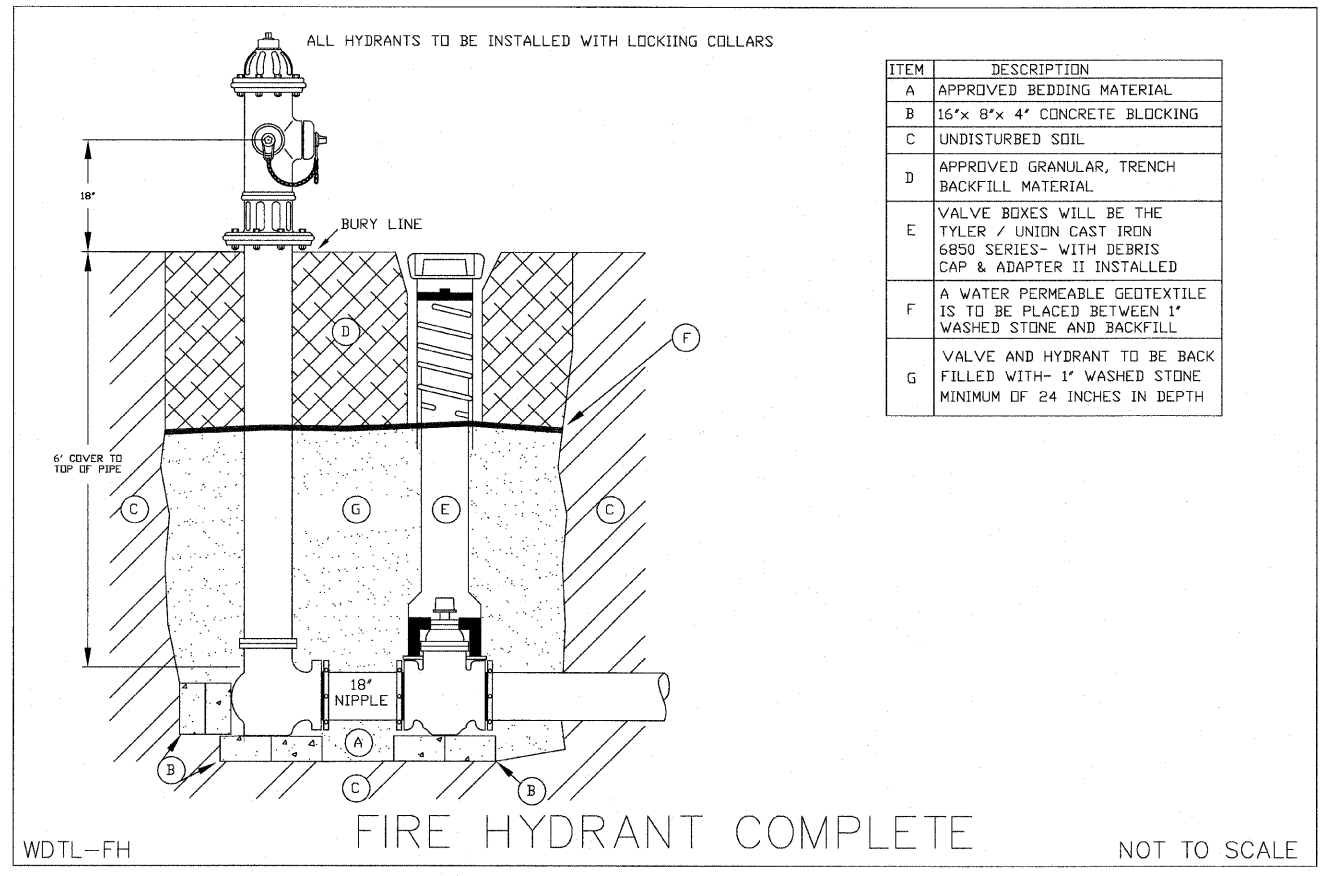
SHEET REVIEW	
AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

SCALE:	N/A
DRAWN BY:	MS
CHECKED BY:	JWH
DATE:	AUGUST 13, 2010

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JOB: 04-28-10-008



SHEET REVIEW	
AGENCY	DATE

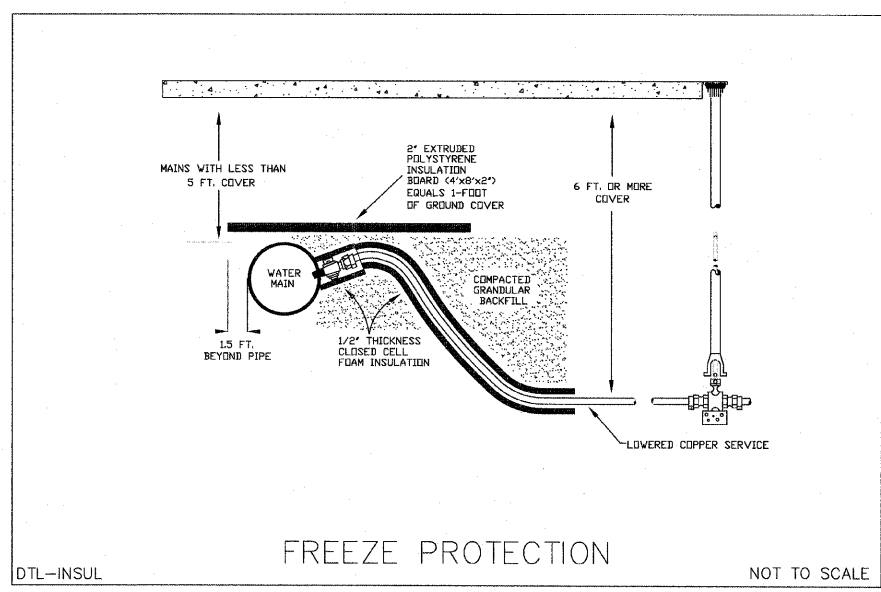
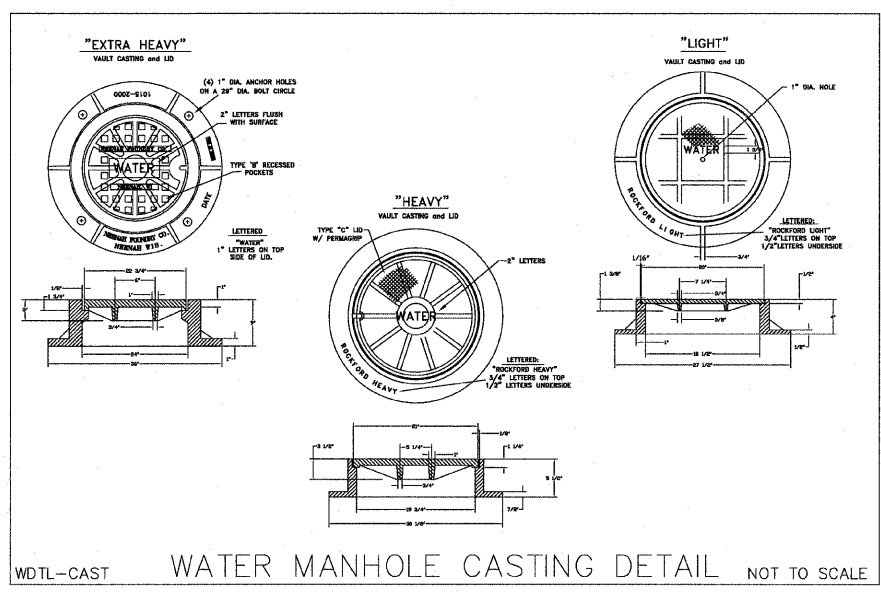
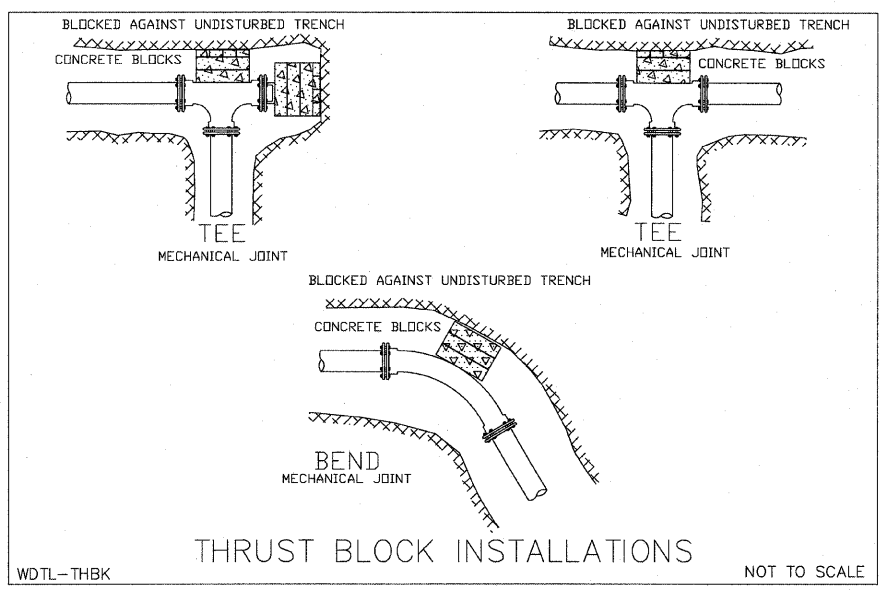
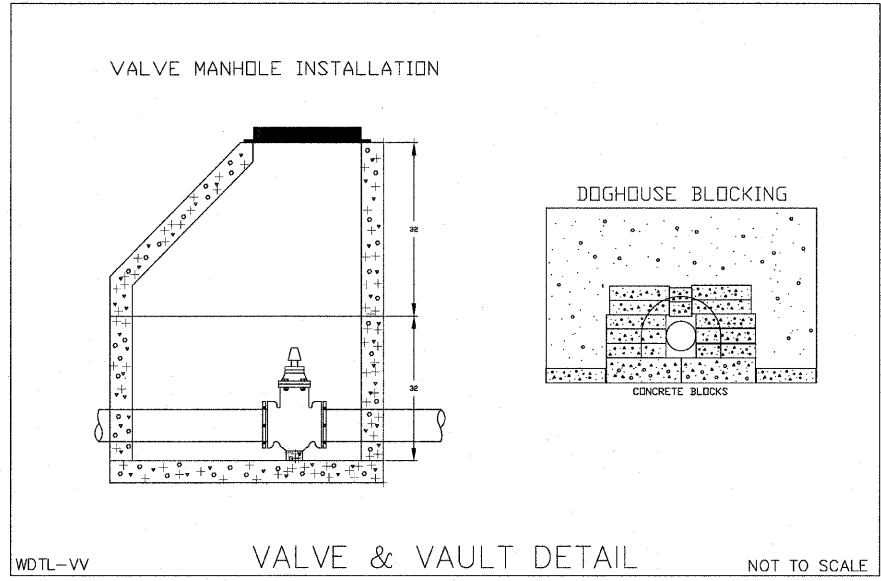
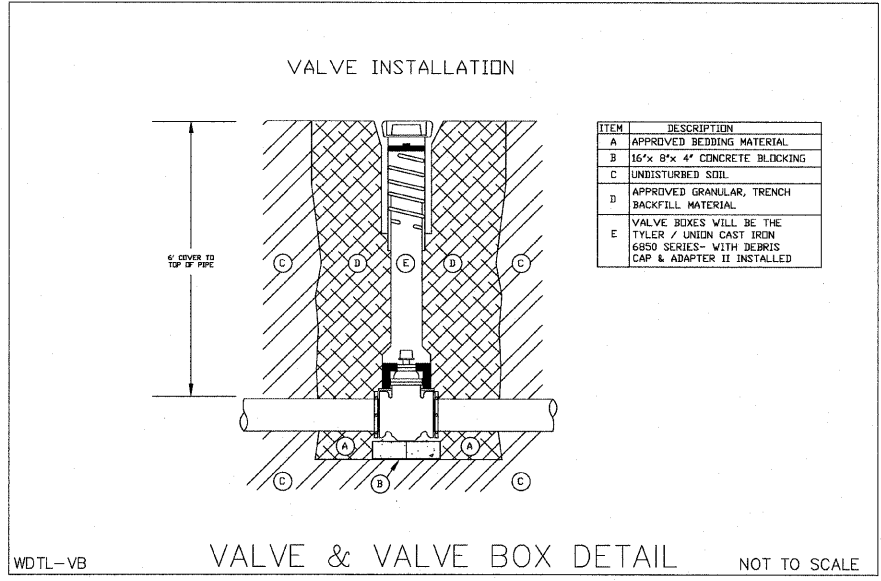
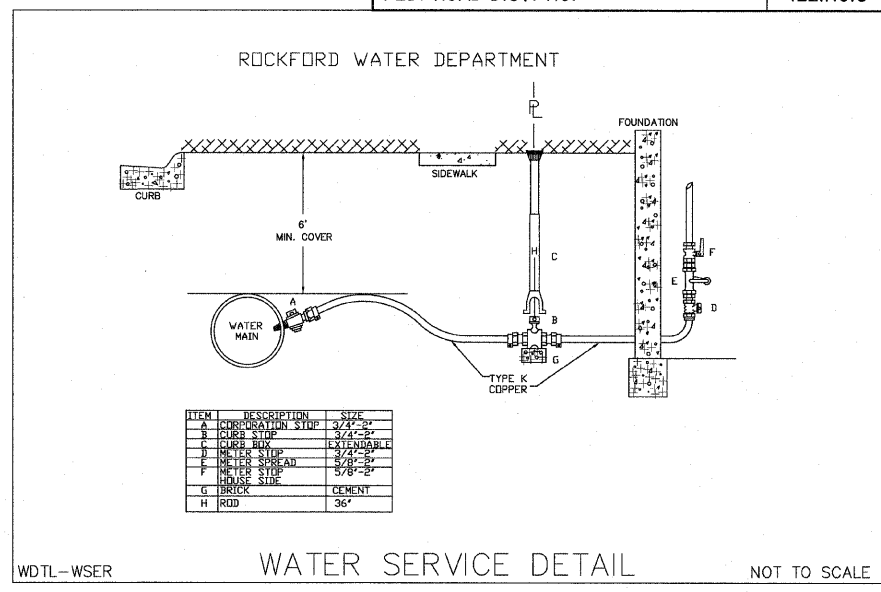
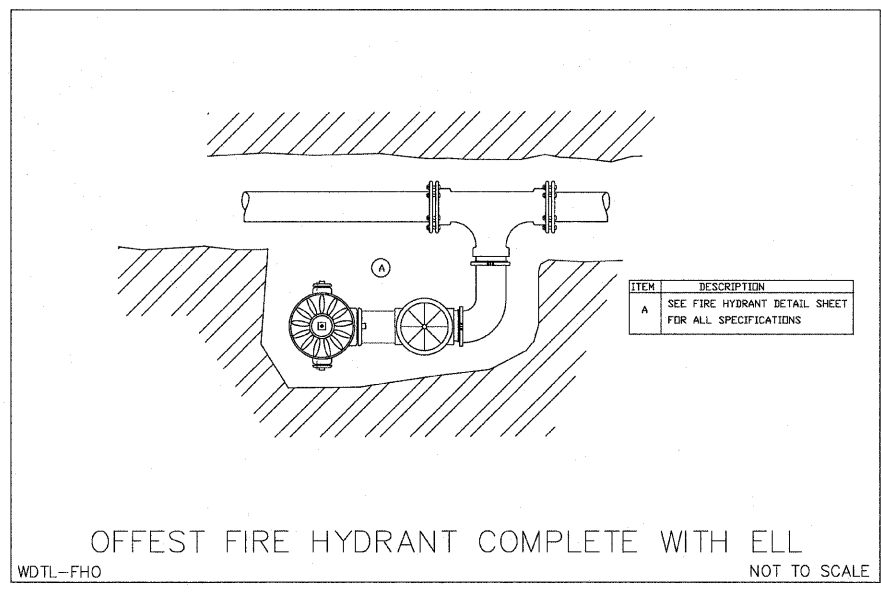
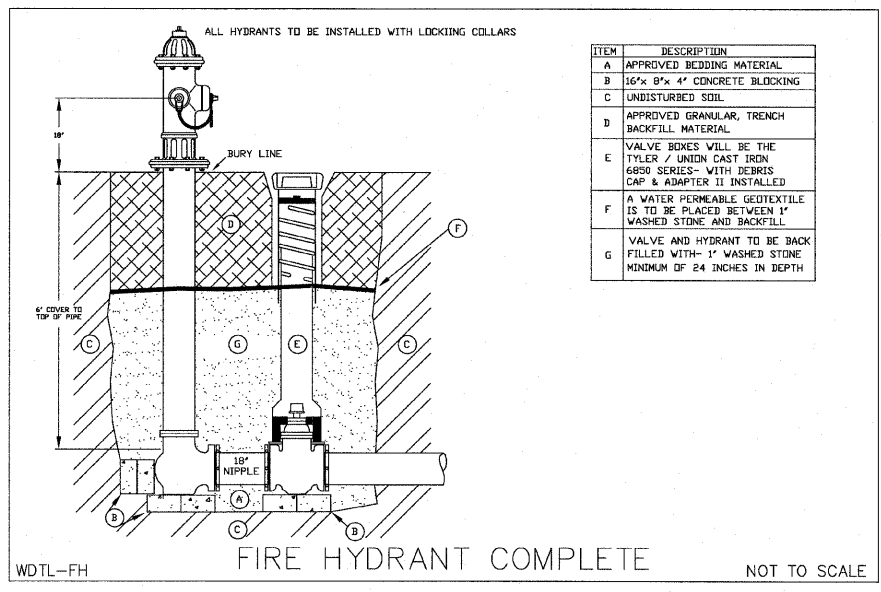
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DATE:	AUGUST 13, 2010

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**DETAILS - WATER DIVISION**  
RIVERWALK MUSEUM CAMPUS  
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FILE: H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 ROCKFORD DETAILS.DWG JOB: 04-28-10-008

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SHEET REVIEW	
AGENCY	DATE

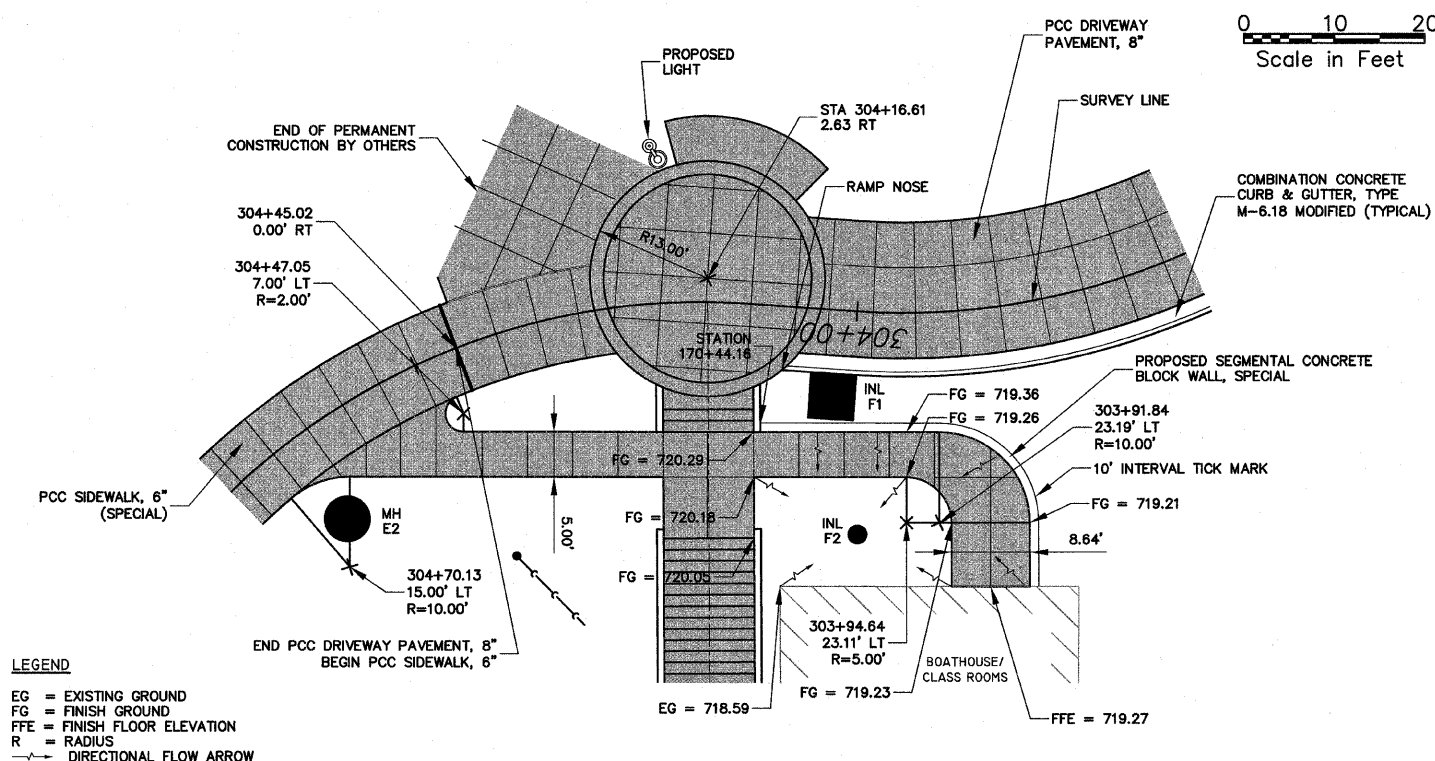
REVISIONS		
NO.	ITEM	DATE

SCALE:	N/A
DRAWN BY:	MS
CHECKED BY:	JMH
DATE:	AUGUST 13, 2010

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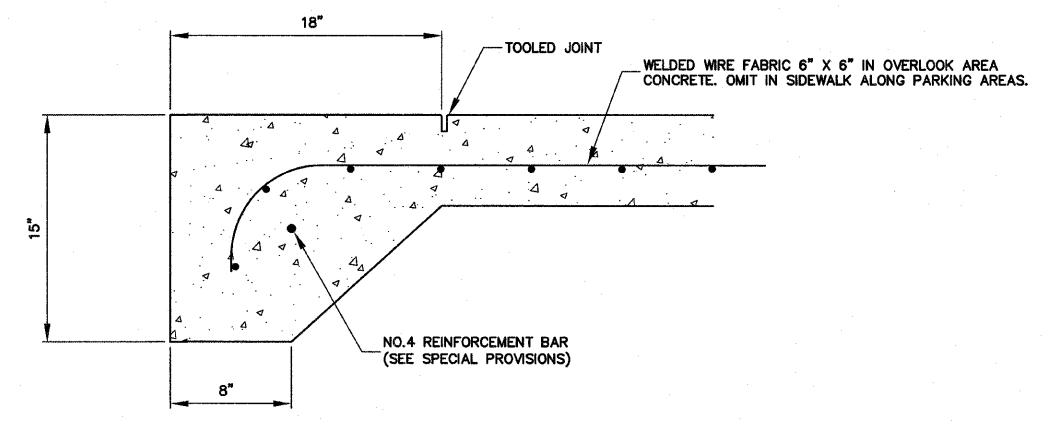
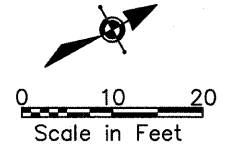
**WATER DIVISION (2)**  
 RIVERWALK MUSEUM CAMPUS  
 711 NORTH MAIN STREET ROCKFORD, IL  
 FILE: H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 ROCKFORD DETAILS.DWG JOB: 04-28-10-008



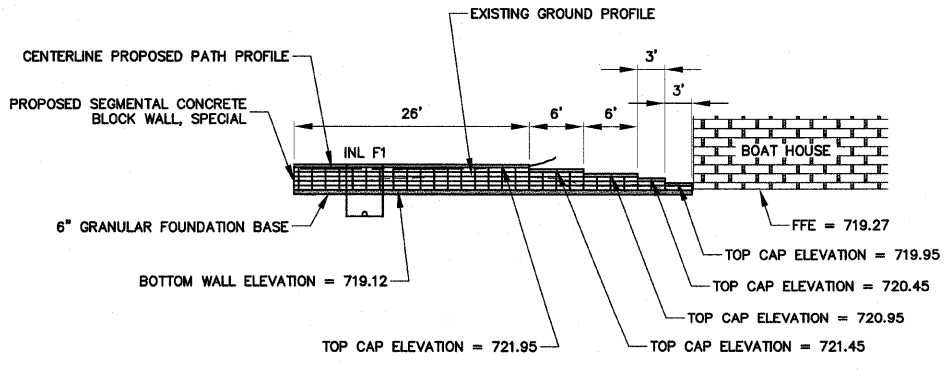
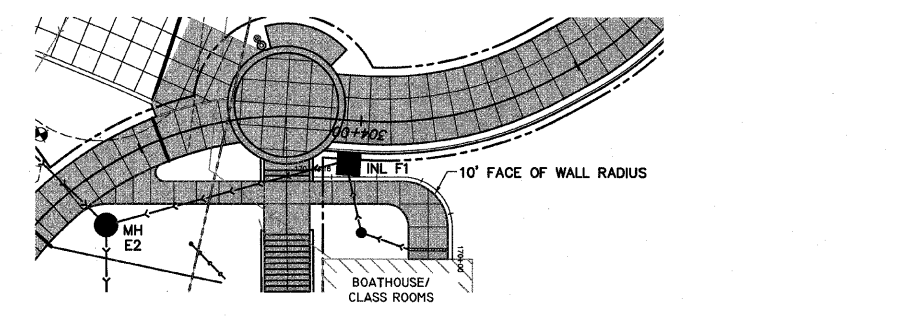


**LEGEND**  
 EG = EXISTING GROUND  
 FG = FINISH GROUND  
 FFE = FINISH FLOOR ELEVATION  
 R = RADIUS  
 → = DIRECTIONAL FLOW ARROW

**BOAT HOUSE SIDEWALK AND SEGMENTAL CONCRETE BLOCK WALL DETAIL**

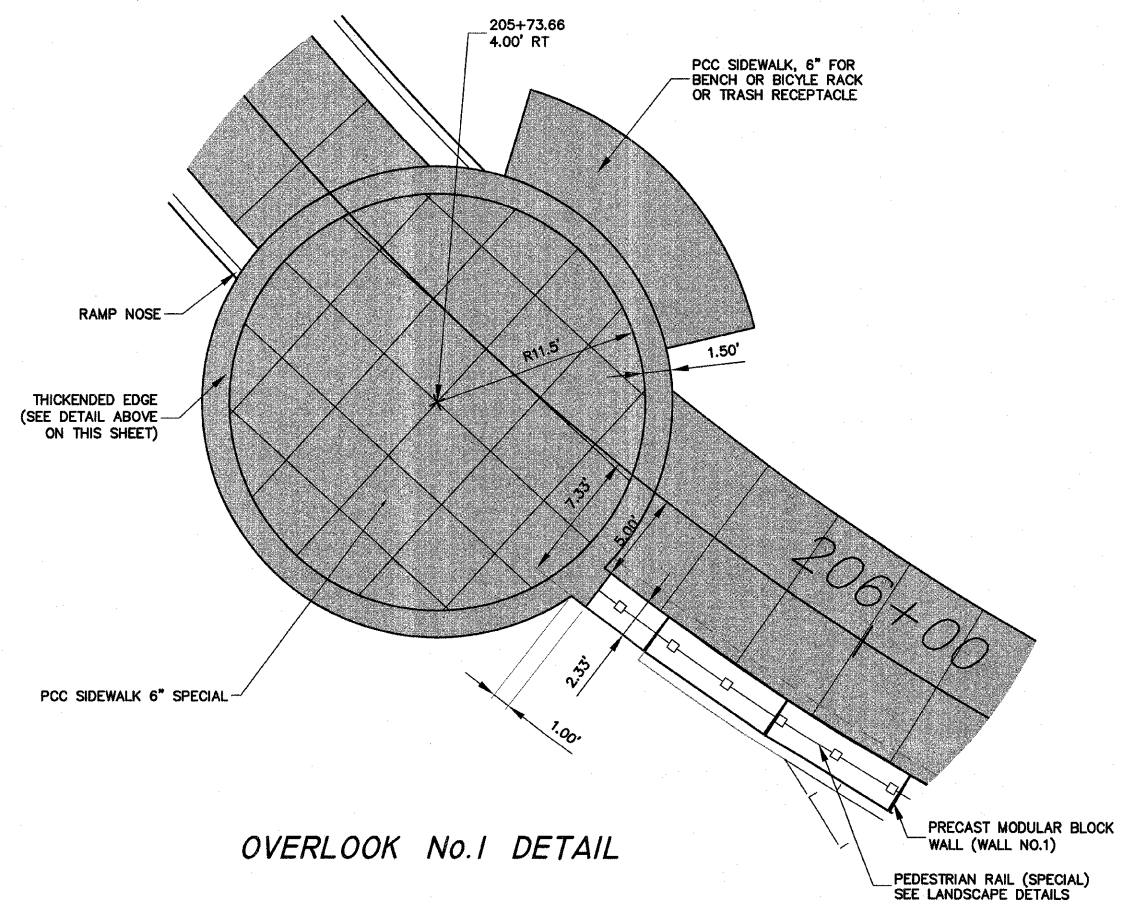
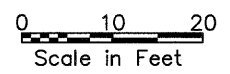


**PCC SIDEWALK 6", SPECIAL THICKENED EDGE DETAIL** not to scale

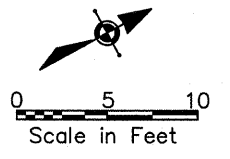


**BOAT HOUSE SEGMENTAL CONCRETE BLOCK WALL PROFILE**

**SCALES:**  
 PLAN: 1" = 10'  
 PROFILE: 1" = 10' HORIZONTAL  
 1" = 10' VERTICAL



**OVERLOOK No. 1 DETAIL**



H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 MISC DETAILS.DWG - DETAILS - VARIOUS, 11/1/2010 3:55:01 PM, E.L. JWH

SHEET REVIEW	
AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

SCALE:	Varies per Detail	
DRAWN BY:	MS	
CHECKED BY:	JWH	
DATE:	AUGUST 13, 2010	

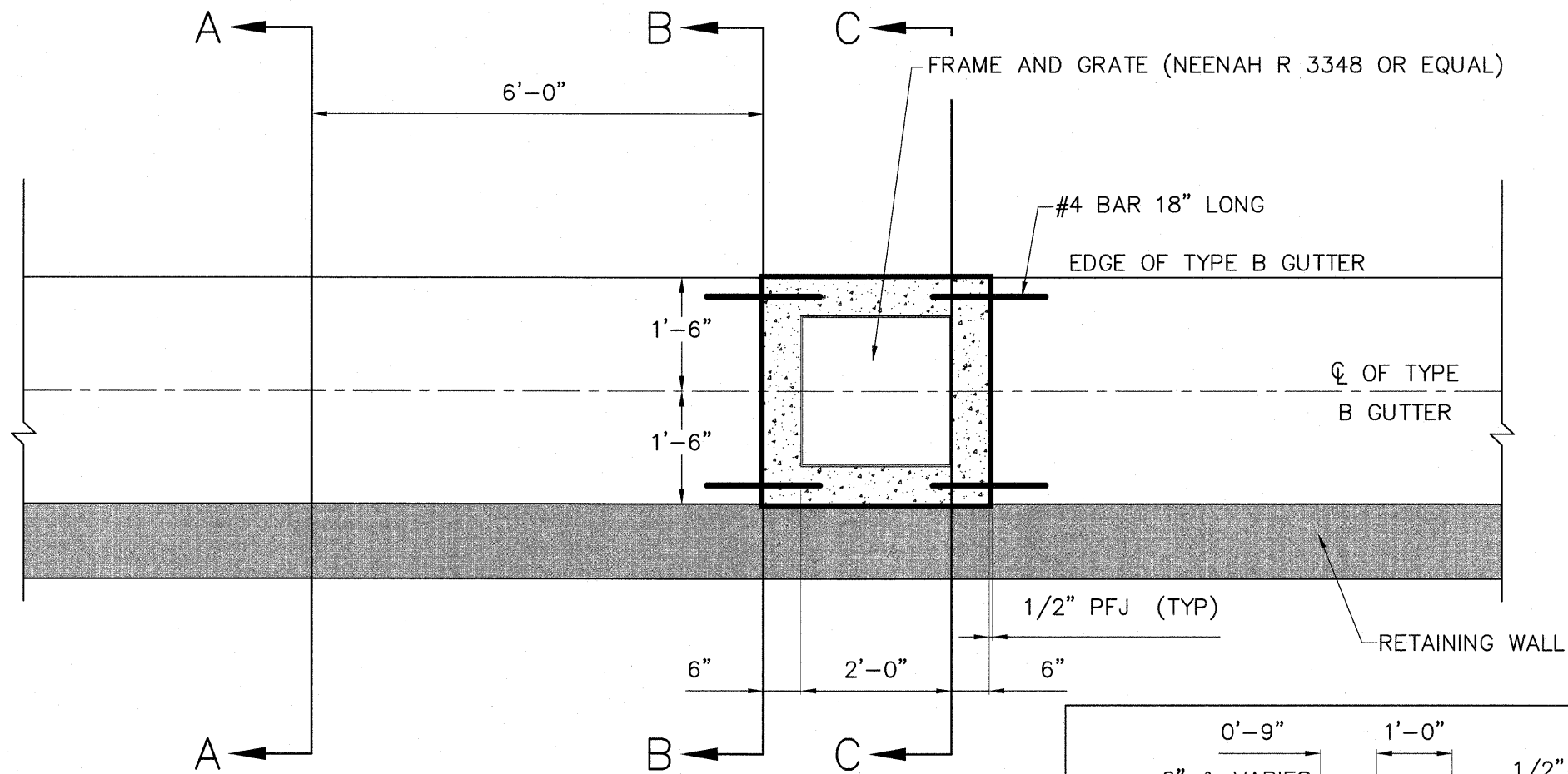
**McClure**  
 Engineering Associates, Inc.  
 7282 Argus Drive Rockford, Illinois 61107-5837  
 (815) 398-2332 FAX (815) 398-2496  
 Design Firm License: Illinois 184-000816  
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**DETAILS - VARIOUS**  
 RIVERWALK MUSEUM CAMPUS  
 711 NORTH MAIN STREET ROCKFORD, IL  
 FILE:H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 MISC DETAILS.DWG JOB:04-28-10-008

SHEET NO.  
**146**  
 OF  
**148**

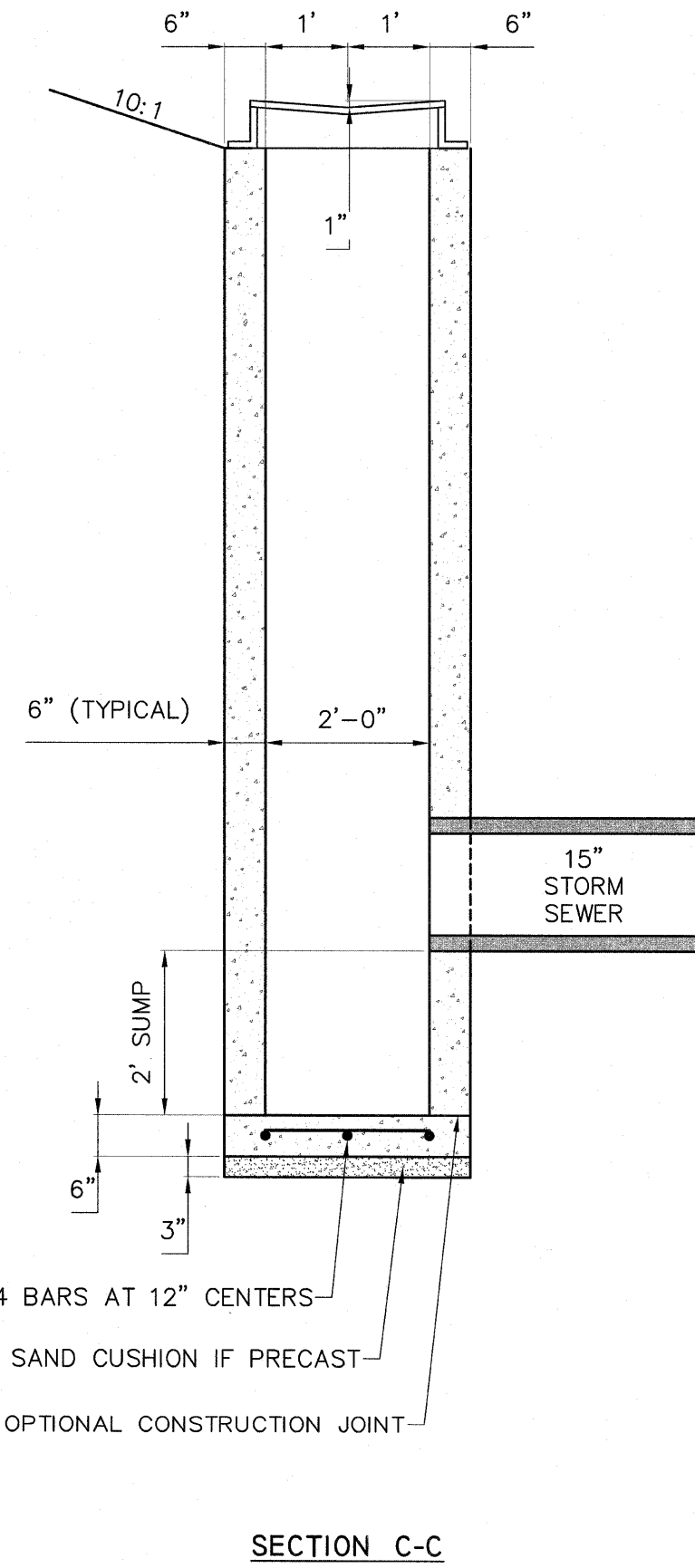
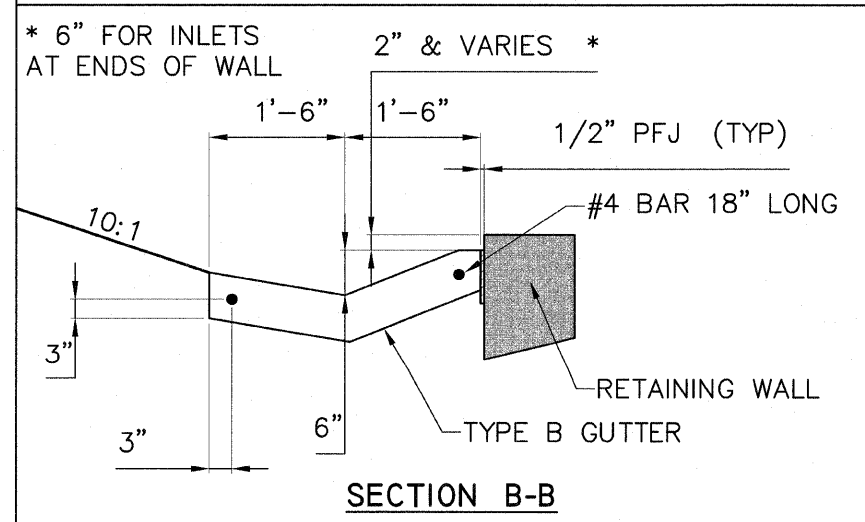
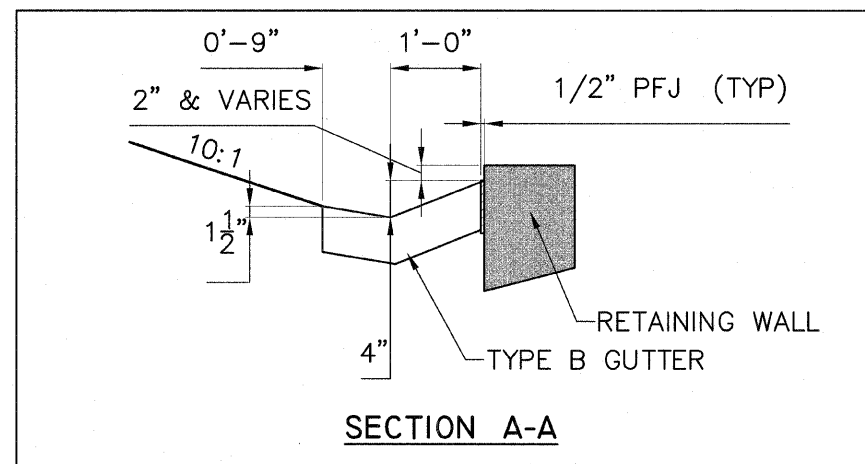
# INLET BOX, SPECIAL, No.1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00543-00-BT	WINNEBAGO	148	147
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO.	85521



**NOTES:**

1. EXCEPT AS NOTED HERON INLET BOX. SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.
2. THE CONTRACT UNIT PRICE "EACH" FOR INLETS, SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX, FURNISHING AND INSTALLING THE FRAME AND GRATE, THE PRECAST FLOOR SLAB, PCC COLLAR, WELDED WIRE FABRIC, SAND CUSHION (WHEN USED) AND REINFORCEMENT BARS.
3. CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 504.01 THRU 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE
4. 4,000 PSI AFTER 28 DAYS.
5. REINFORCEMENT BARS SHALL CONFORM TO A.S.T.M. A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, AND SHALL BE GALVANIZED CONFORMING TO A.S.T.M. A-120.
6. THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.
7. ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.



SHEET REVIEW	
AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

SCALE:	NA
DRAWN BY:	MS
CHECKED BY:	JMH
DATE:	AUGUST 13, 2010

**McClure**  
Engineering Associates, Inc.

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Rockford, Illinois 61107-5837  
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**INLET BOX SPECIAL**

RIVERWALK MUSEUM CAMPUS

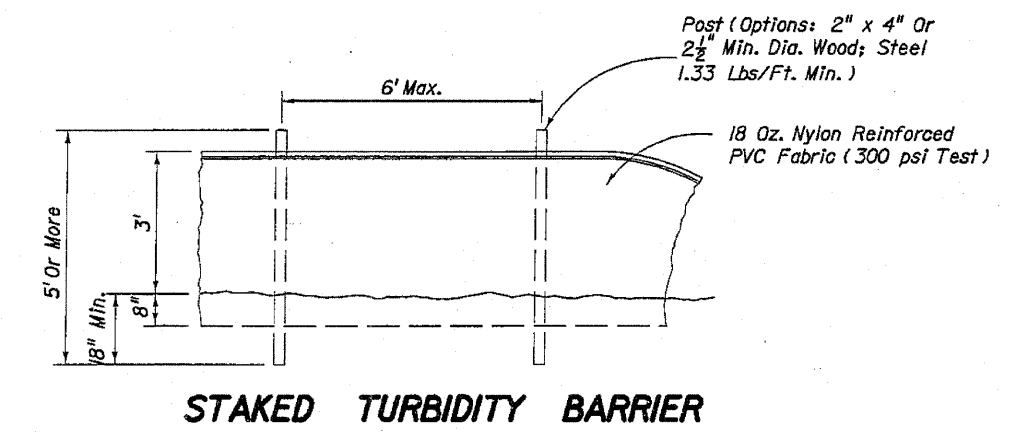
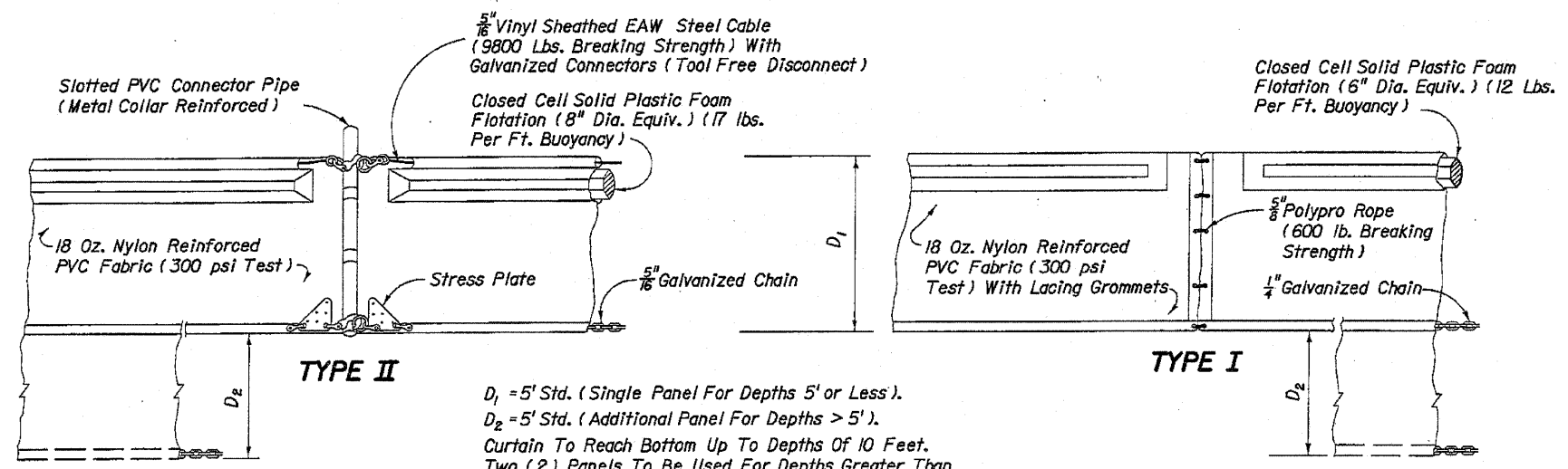
711 NORTH MAIN STREET  
ROCKFORD, IL

FILE: H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 GUTTER INLET DETAIL.DWG

JOB: 04-28-10-008

SHEET NO.
147 OF 148

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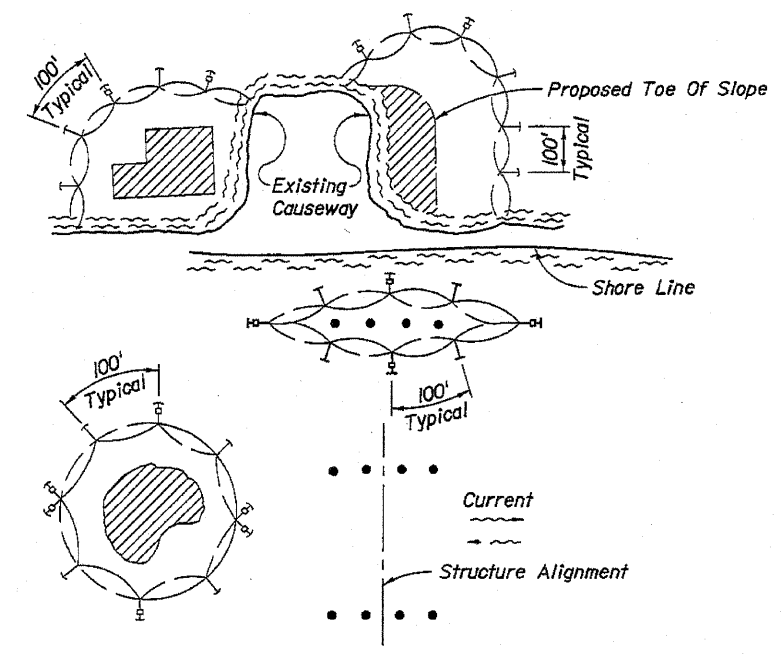


**TYPE II**

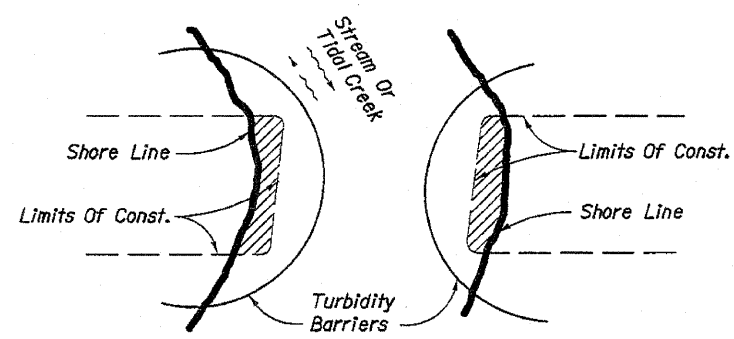
$D_1 = 5'$  Std. (Single Panel For Depths 5' or Less).  
 $D_2 = 5'$  Std. (Additional Panel For Depths > 5').  
 Curtain To Reach Bottom Up To Depths Of 10 Feet.  
 Two (2) Panels To Be Used For Depths Greater Than 10 Feet Unless Special Depth Curtains Specifically Call For In The Plans Or As Determined By The Engineer.

**NOTICE:** COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

**FLOATING TURBIDITY BARRIERS**



- LEGEND**
- Pile Locations
  - ▨ Dredge Or Fill Area
  - ⊙ Mooring Buoy w/Anchor
  - ⊙ Anchor
  - ⤴ Barrier Movement Due To Current Action



- NOTES:**
1. Turbidity barriers are to be used in all permanent bodies of water regardless of water depth.
  2. Number and spacing of anchors dependent on current velocities.
  3. Deployment of barrier around pile locations may vary to accommodate construction operations.
  4. Navigation may require segmenting barrier during construction operations.
  5. For additional information see Section 104 of the Standard Specifications.

**Note:**  
 Turbidity barriers for flowing streams and tidal creeks may be either floating, or staked types or any combinations of types that will suit site conditions and meet erosion control and water quality requirements. The barrier type(s) will be at the Contractors option unless otherwise specified in the plans, however payment will be under the pay item(s) established in the plans for Floating Turbidity Barrier and/or Staked Turbidity Barrier. Posts in staked turbidity barriers to be installed in vertical position unless otherwise directed by the Engineer.

**GENERAL NOTES**

1. Floating turbidity barriers are to be paid for under the contract unit price for Floating Turbidity Barrier, LF.
2. Staked turbidity barriers are to be paid for under the contract unit price for Staked Turbidity Barrier, LF.

**TURBIDITY BARRIER APPLICATIONS**

	<p style="text-align: center;">SHEET REVIEW</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">AGENCY</th> <th style="width: 50%;">DATE</th> </tr> <tr> <td> </td> <td> </td> </tr> </table>	AGENCY	DATE			<p style="text-align: center;">REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">NO.</th> <th style="width: 60%;">ITEM</th> <th style="width: 30%;">DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	ITEM	DATE				<p>SCALE: N/A</p> <p>DRAWN BY: MS</p> <p>CHECKED BY: JWH</p> <p>DATE: AUGUST 13, 2010</p>	<p><b>McClure</b>          Engineering Associates, Inc.  <small>7282 Argus Drive Rockford, Illinois 61107-5837          (815) 398-2332 FAX (815) 398-2496          Design Firm License: Illinois 184-000816          Copyright 2010 By McClure Engineering Associates, Inc.</small></p>	<p><b>TURBIDITY BARRIER</b>          RIVERWALK MUSEUM CAMPUS</p> <p>711 NORTH MAIN STREET ROCKFORD, IL</p> <p>FILE:H:\08-008 RIVERWALK MUSEUM\DESIGN\DRAWINGS\08-008 TURBIDITY BARRIER DETAIL.DWG JOB:04-28-10-008</p>	<p>SHEET NO.</p> <p><b>148</b>          OF  <b>148</b></p>
AGENCY	DATE															
NO.	ITEM	DATE														

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