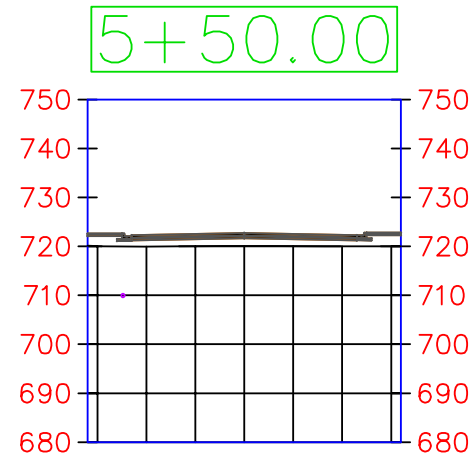
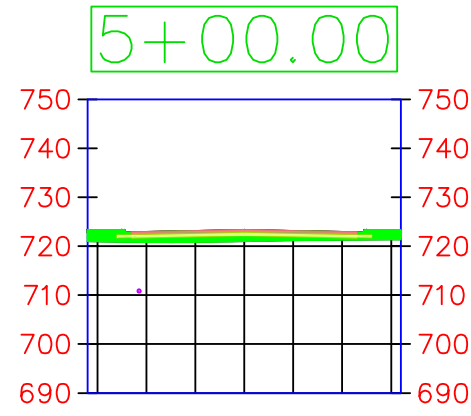
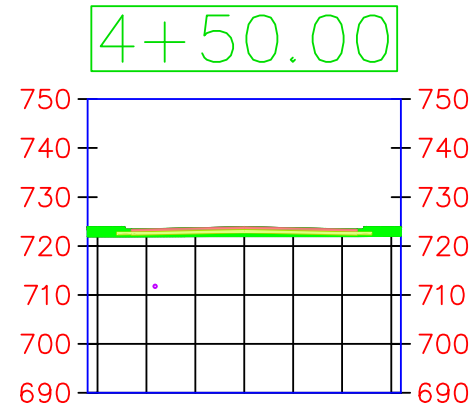
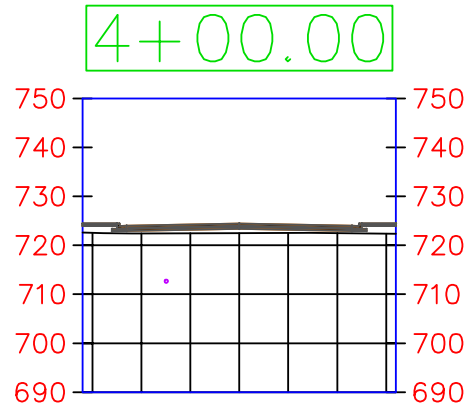
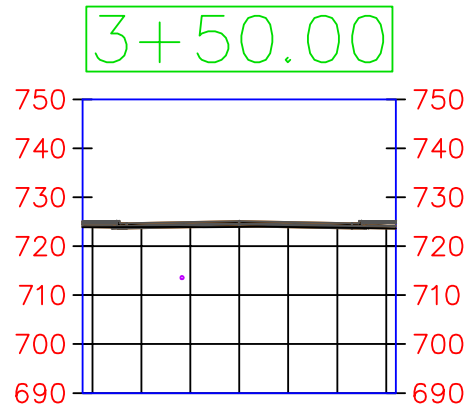
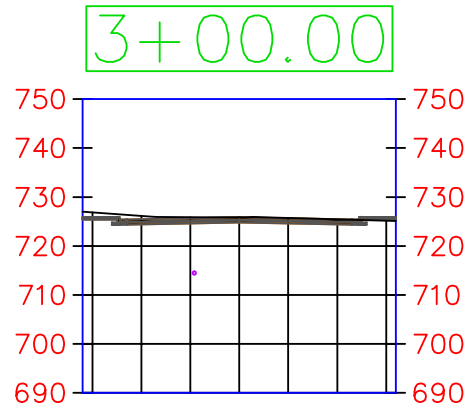
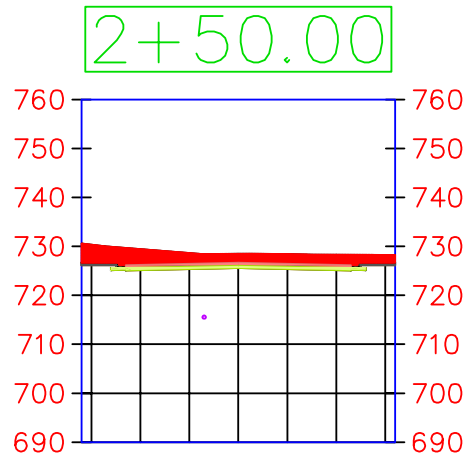
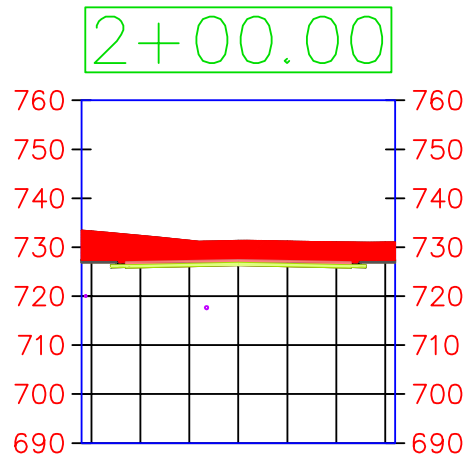
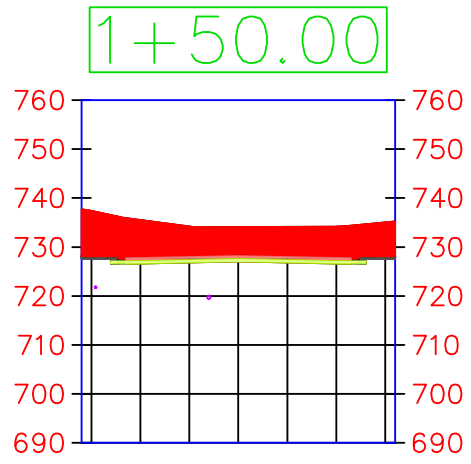
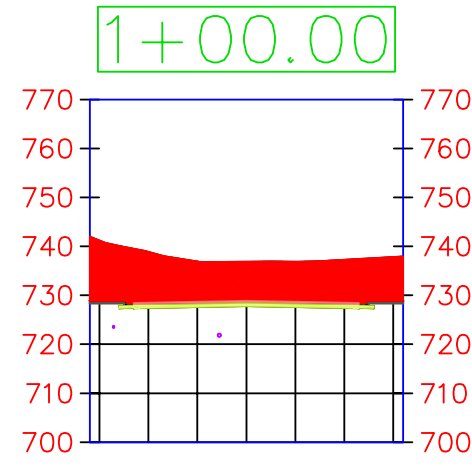
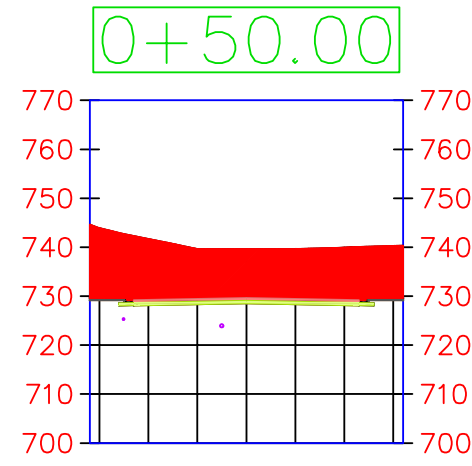
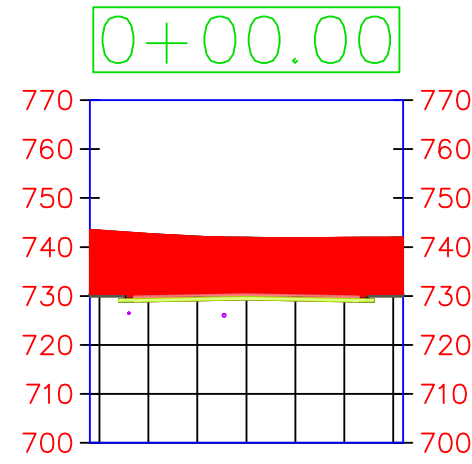




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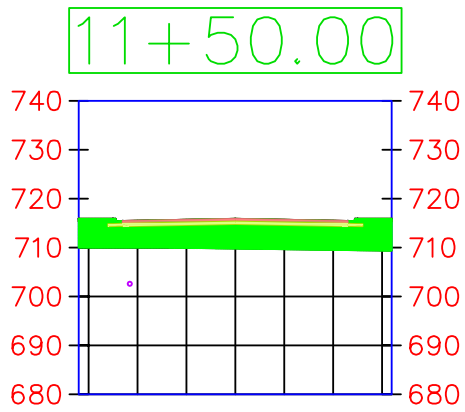
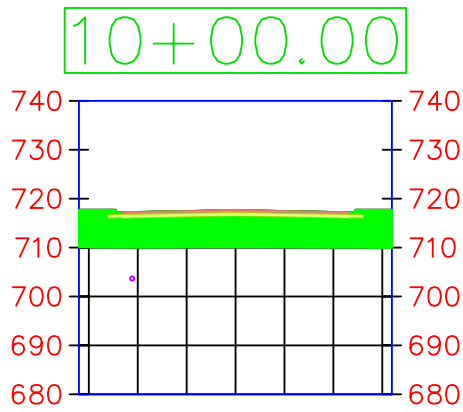
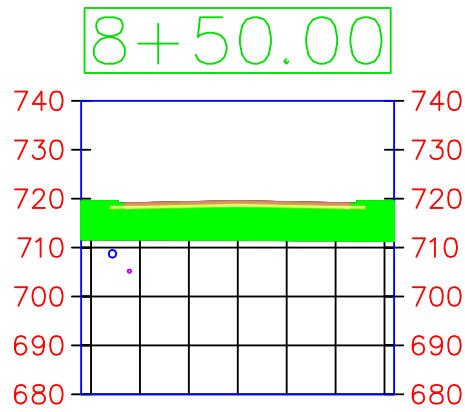
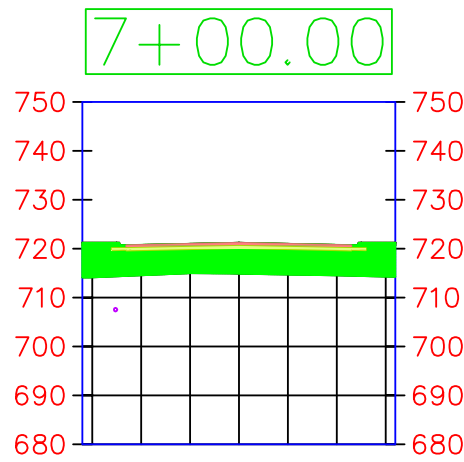
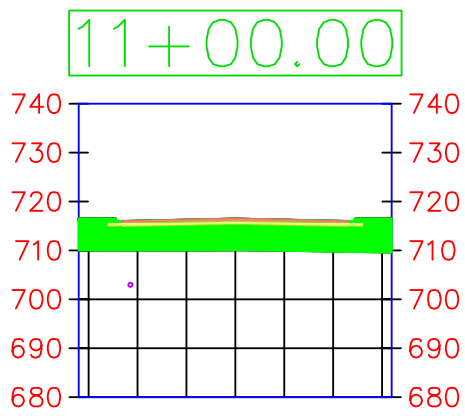
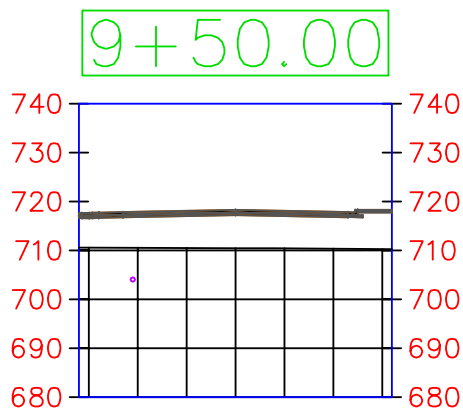
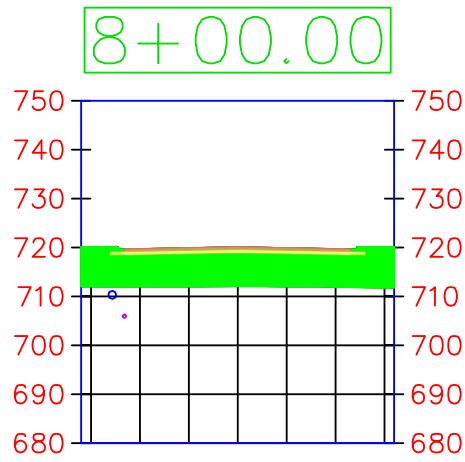
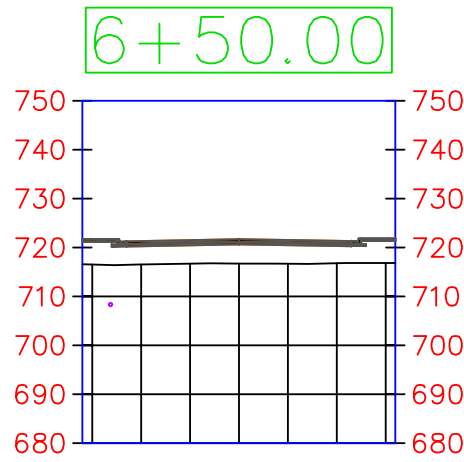
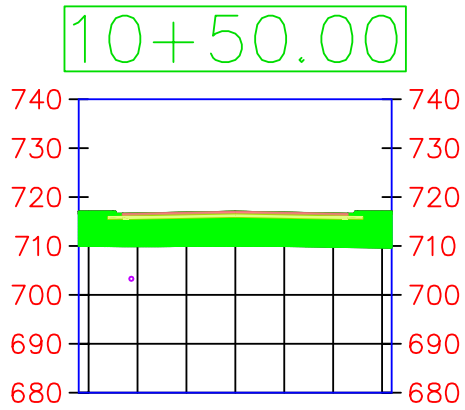
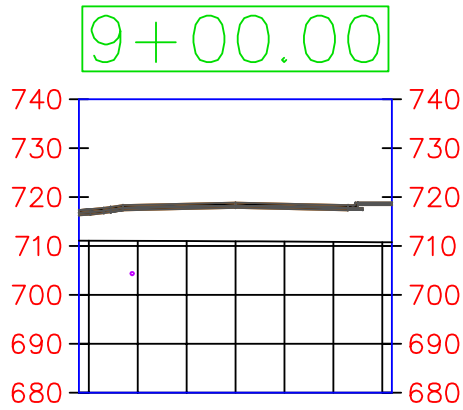
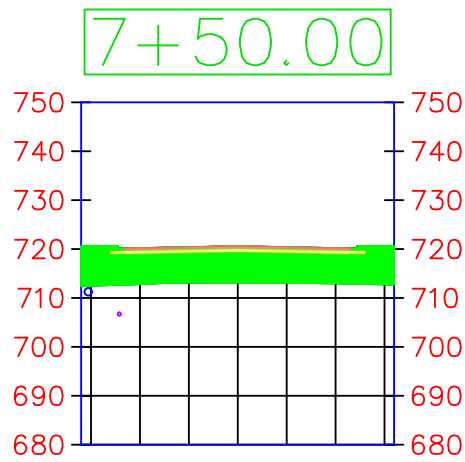
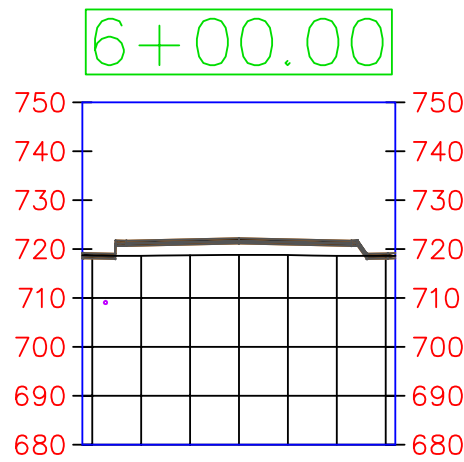
DOWNTOWN REDESIGN

PROJECT ADDRESS 1
PROJECT ADDRESS 2

SHEET NAME

MAIN STREET
SECTION VIEW

SHEET NO.



THE UNIVERSITY OF IOWA
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FAX: 319.335.5660
EMAIL: civil-hawks@iowa.edu

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DOWNTOWN REDESIGN

PROJECT ADDRESS 1
PROJECT ADDRESS 2

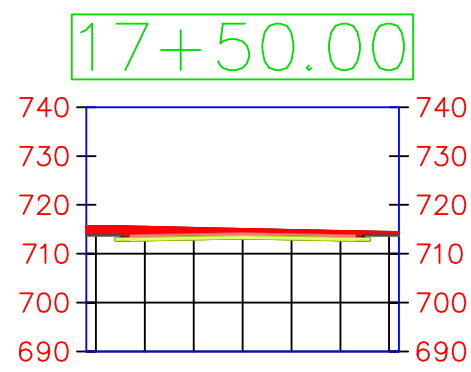
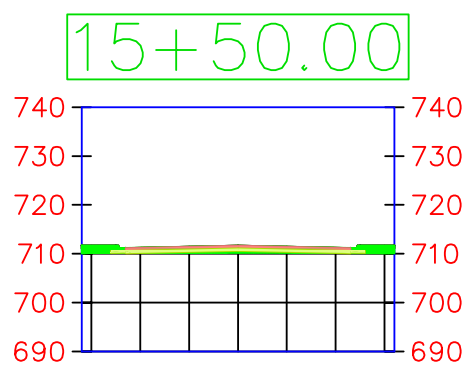
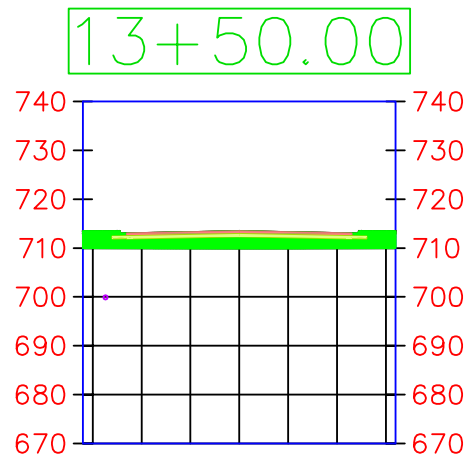
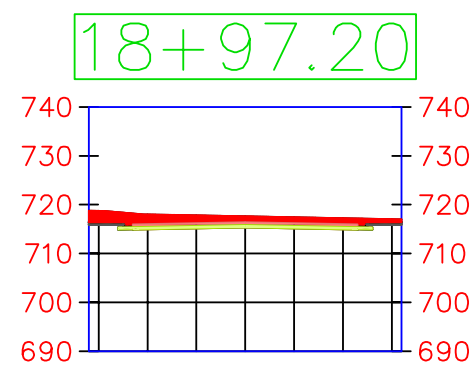
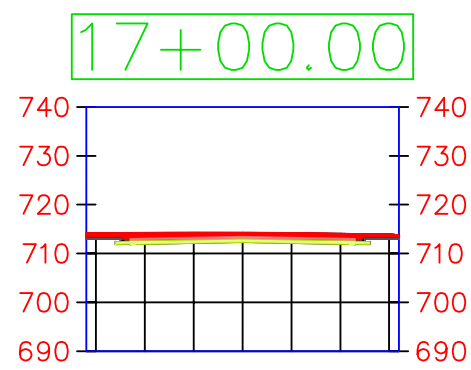
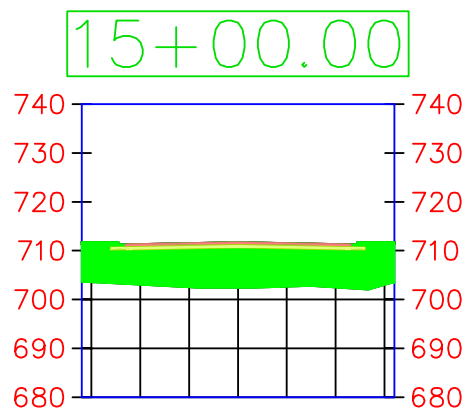
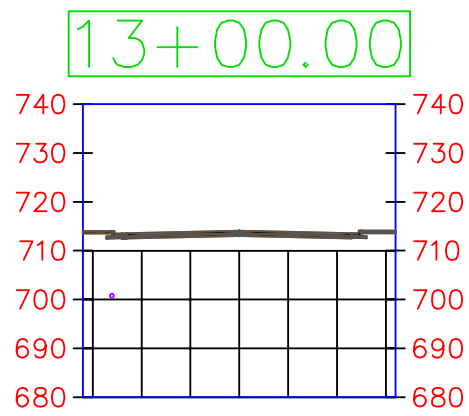
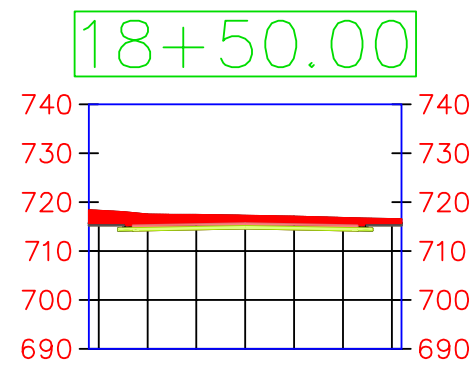
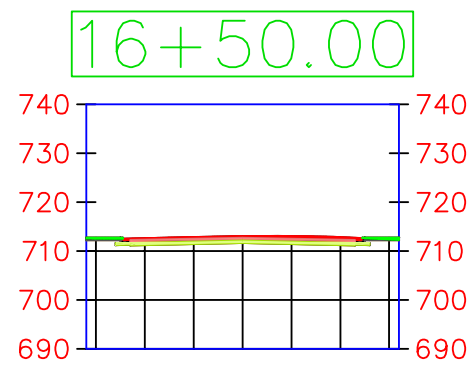
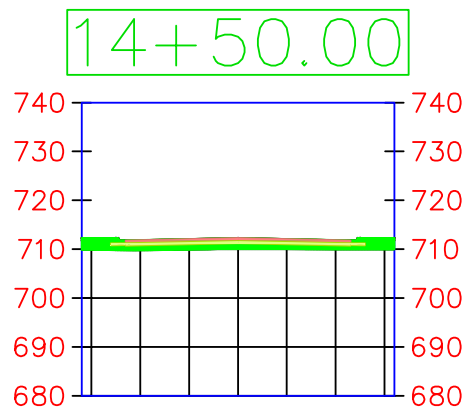
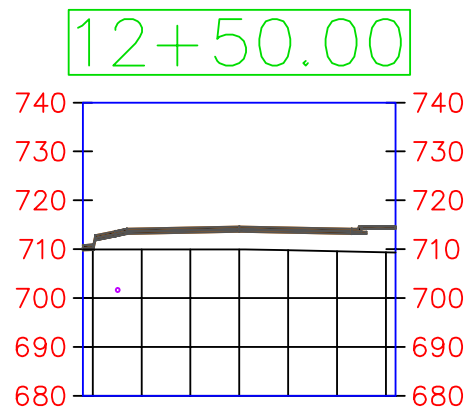
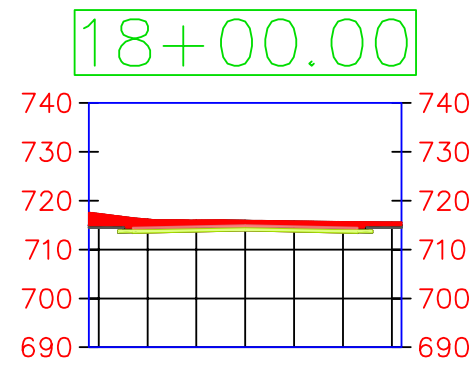
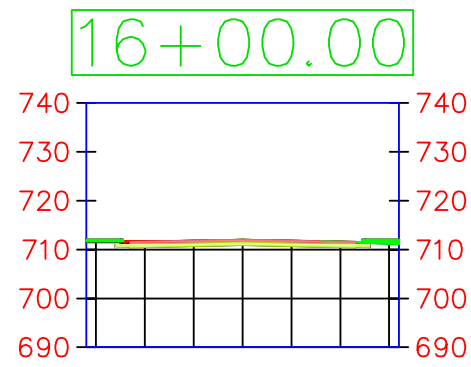
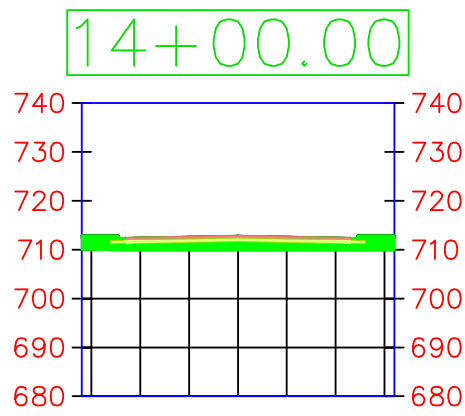
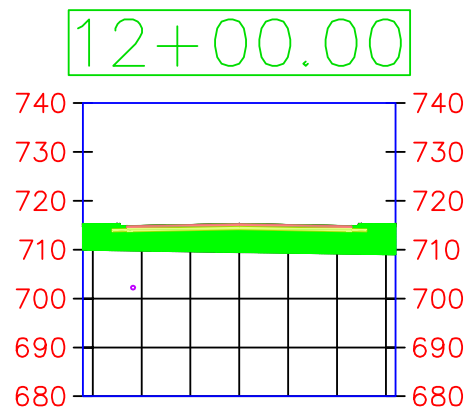
SHEET NAME

MAIN STREET
SECTION VIEW

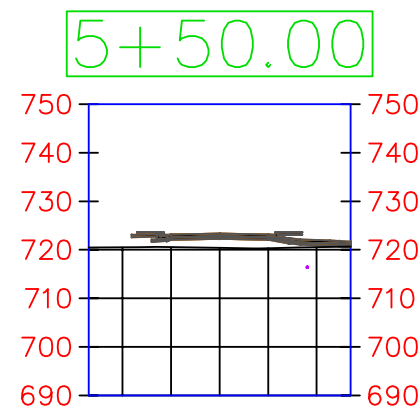
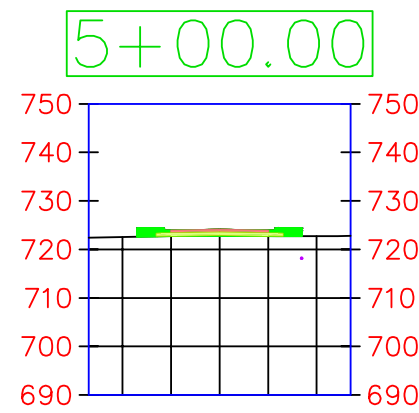
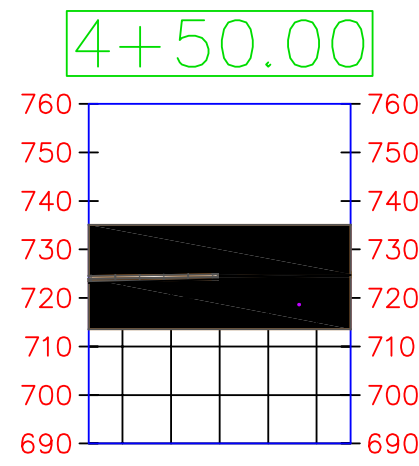
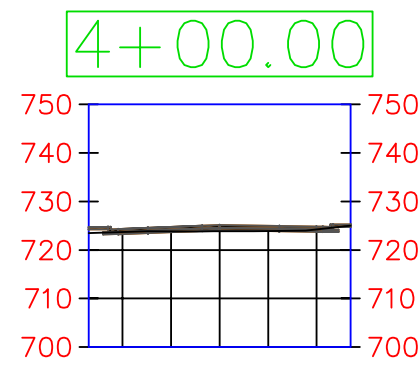
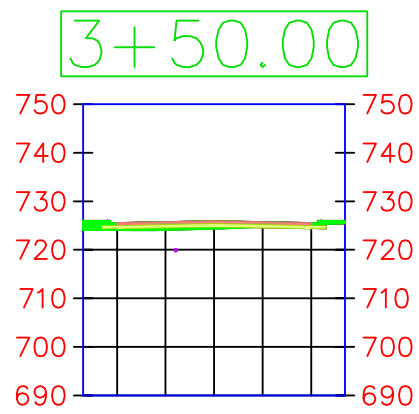
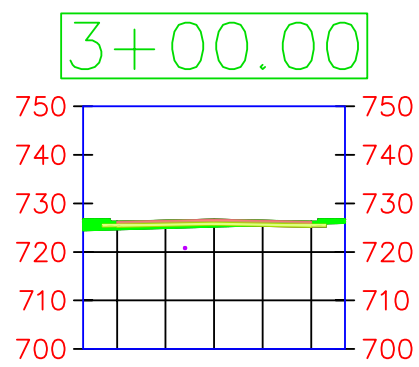
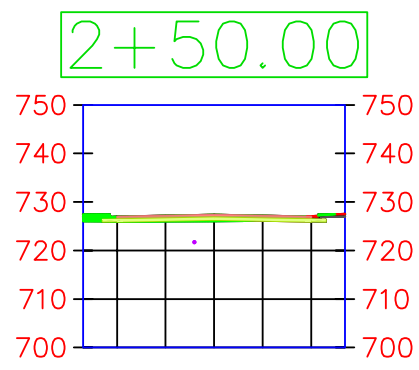
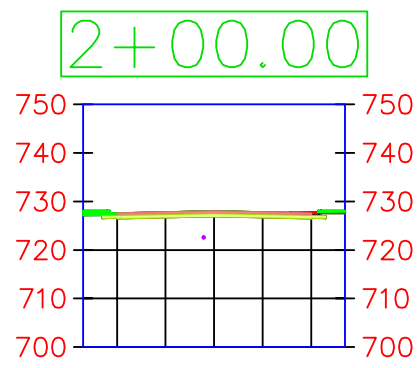
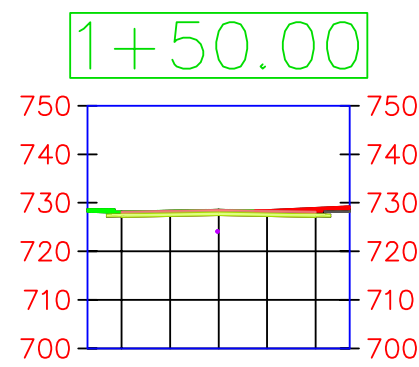
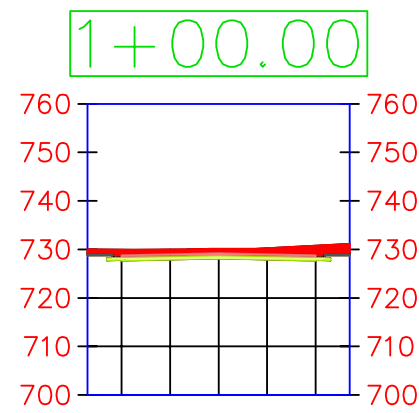
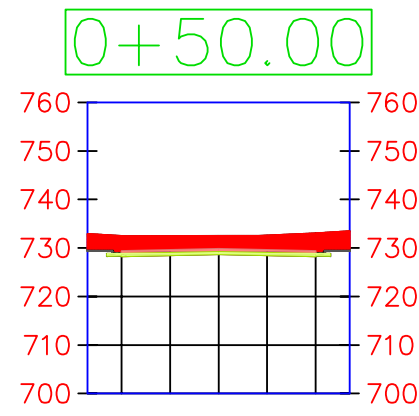
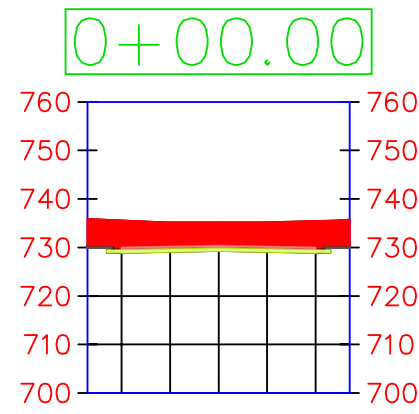
SHEET NO.

22

PROJECT: CEE: 4850
DATE : 11/18/2016
DRAWN BY: cds
REVISION:



PROJECT:	CEE: 4850
	DATE :
	DRAWN BY:
	REVISION:
THE UNIVERSITY OF IOWA CIVIL AND ENVIRONMENTAL ENGINEERING	
4105 SEAMANS CENTER FOR THE ENGINEERING ARTS AND SCIENCES 103 S CAPITOL ST IOWA CITY, IOWA 52242 PHONE: 319.335.5647 FAX: 319.335.5660 EMAIL: civil-hawks@iowa.edu	
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DOWNTOWN REDESIGN	
PROJECT ADDRESS 1 PROJECT ADDRESS 2	
SHEET NAME	
MAIN STREET SECTION VIEW	
SHEET NO.	
23	



PROJECT:	CEE: 4850	
	DATE :	11 /18 /2016
	DRAWN BY:	cds
	REVISION:	

THE UNIVERSITY OF IOWA

CIVIL AND ENVIRONMENTAL ENGINEERING

4105 SEAMANS CENTER FOR THE

ENGINEERING ARTS AND SCIENCES

103 S CAPITOL ST

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EMAIL: civil-hawks@iowa.edu

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PROJECT ADDRESS 1

PROJECT ADDRESS 2

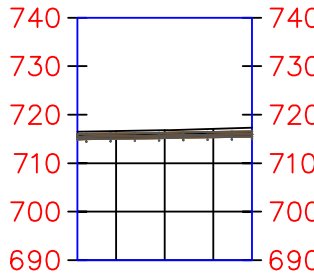
SHEET NAME

POPLAR STREET
SECTION VIEW

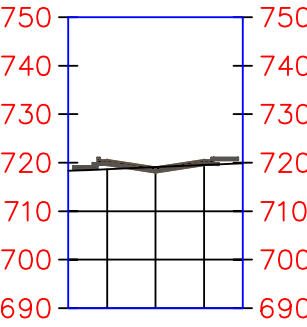
SHEET NO.

24

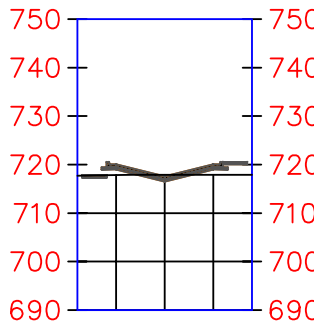
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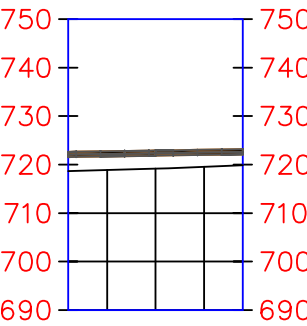
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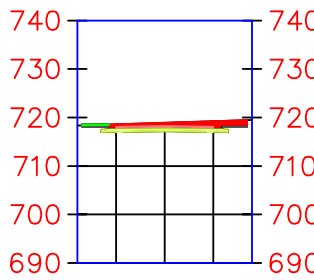
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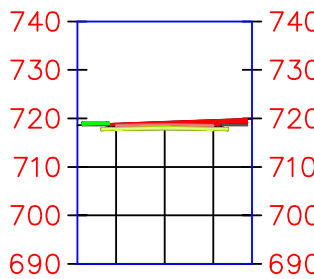
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1+00.00



1+50.00



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DOWNTOWN REDESIGN

PROJECT ADDRESS 1
PROJECT ADDRESS 2

SHEET NAME

WETHERALL ST.
SECTION VIEW

SHEET NO.

25

PROJECT: CEE: 4850
DATE : 11/18/2016
DRAWN BY: cds
REVISION:

Cut and Fill

Pavement

Subbase

Downey St.

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
2+50.00	0.00	0.00	0.00	0.00	0.00	0.00
3+00.00	0.00	0.00	0.00	0.00	0.00	0.00
3+50.00	0.00	0.00	0.00	0.00	0.00	0.00
4+00.00	0.00	0.00	0.00	0.00	0.00	0.00
4+50.00	0.00	0.00	0.00	0.00	0.00	0.00
5+00.00	18.89	5.59	17.49	5.17	17.49	5.17
5+50.00	21.64	4.32	37.53	9.17	55.02	14.34
6+00.00	29.17	6.27	47.05	9.80	102.07	24.14
6+50.00	0.05	17.54	27.06	22.04	129.12	46.18
7+00.00	16.73	12.63	15.55	27.93	144.67	74.12
7+50.00	8.90	22.96	23.74	32.95	168.40	107.07
8+00.00	0.00	67.94	8.24	84.16	176.64	191.24
8+50.00	0.00	158.20	0.00	209.39	176.64	400.63
8+93.91	0.00	248.35	0.00	330.62	176.64	731.25

Material Table			
Station	Area	Volume	Cumulative Volume
2+50.00	0.00	0.00	0.00
3+00.00	0.00	0.00	0.00
3+50.00	0.00	0.00	0.00
4+00.00	0.00	0.00	0.00
4+50.00	0.00	0.00	0.00
5+00.00	23.33	21.60	21.60
5+50.00	23.33	43.21	64.81
6+00.00	23.33	43.21	108.02
6+50.00	23.33	43.21	151.23
7+00.00	23.33	43.21	194.44
7+50.00	23.33	43.21	237.65
8+00.00	23.33	43.21	280.86
8+50.00	23.33	43.21	324.07
8+93.91	23.33	37.95	362.02

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00
1+00.00	22.56	20.89	20.89
1+50.00	22.56	41.78	62.67
2+00.00	22.56	41.78	104.44
2+50.00	22.56	41.78	146.22
3+00.00	22.56	41.78	188.00
3+50.00	22.56	41.78	229.78
4+00.00	22.56	41.78	271.56
4+10.11	22.56	8.45	280.00

Cut and Fill

Pavement

Subbase

Poplar St.

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+00.00	0.00	275.02	0.00	0.00	0.00	0.00
0+50.00	0.00	162.81	0.00	405.39	0.00	405.39
1+00.00	0.00	63.98	0.00	209.99	0.00	615.39
1+50.00	8.57	8.07	7.93	66.72	7.93	682.10
2+00.00	20.31	0.71	26.74	8.13	34.68	690.23
2+50.00	50.50	0.43	65.57	1.05	100.24	691.28
3+00.00	69.23	0.00	110.86	0.39	211.10	691.68
3+50.00	66.16	0.00	125.36	0.00	336.46	691.68
4+00.00	0.00	0.00	61.03	0.00	397.49	691.68
4+50.00	0.00	0.00	0.00	0.00	397.49	691.68
5+00.00	45.54	0.00	42.17	0.00	439.66	691.68
5+50.00	0.00	0.00	42.17	0.00	481.83	691.68

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	23.33	0.00	0.00
0+50.00	23.33	43.21	43.21
1+00.00	23.33	43.21	86.42
1+50.00	23.33	43.21	129.63
2+00.00	23.33	43.21	172.84
2+50.00	23.33	43.21	216.05
3+00.00	23.33	43.21	259.26
3+50.00	23.33	43.21	302.47
4+00.00	0.00	21.60	324.07
4+50.00	0.00	0.00	324.07
5+00.00	11.67	10.80	334.88
5+50.00	0.00	10.80	345.68

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00
1+00.00	22.56	20.89	20.89
1+50.00	22.56	41.78	62.67
2+00.00	22.56	41.78	104.44
2+50.00	22.56	41.78	146.22
3+00.00	22.56	41.78	188.00
3+50.00	22.56	41.78	229.78
4+00.00	22.56	41.78	271.56
4+10.11	22.56	8.45	280.00

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DOWNTOWN REDESIGN

PROJECT ADDRESS 1
PROJECT ADDRESS 2

SHEET NAME

CUT AND FILL

SHEET NO.

26

Cut and Fill

Pavement

Subbase

1st St.

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+00.00	0.00	0.00	0.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00	0.00	0.00	0.00
1+00.00	8.94	6.70	8.28	6.20	8.28	6.20
1+50.00	20.99	0.35	27.71	6.53	35.99	12.73
2+00.00	18.76	0.00	36.81	0.32	72.80	13.05
2+50.00	6.79	1.53	23.65	1.42	96.45	14.47
3+00.00	0.82	9.07	7.04	9.82	103.50	24.29
3+50.00	0.00	21.74	0.76	28.53	104.26	52.82
4+00.00	0.00	35.24	0.00	52.76	104.26	105.58
4+10.11	0.00	37.97	0.00	13.71	104.26	119.29

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00
1+00.00	23.33	21.60	21.60
1+50.00	23.33	43.21	64.81
2+00.00	23.33	43.21	108.02
2+50.00	23.33	43.21	151.23
3+00.00	23.33	43.21	194.44
3+50.00	23.33	43.21	237.65
4+00.00	23.33	43.21	280.86
4+10.11	23.33	8.74	289.60

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00
1+00.00	22.56	20.89	20.89
1+50.00	22.56	41.78	62.67
2+00.00	22.56	41.78	104.44
2+50.00	22.56	41.78	146.22
3+00.00	22.56	41.78	188.00
3+50.00	22.56	41.78	229.78
4+00.00	22.56	41.78	271.56
4+10.11	22.56	8.45	280.00

Cut and Fill

Pavement

Subbase

2nd St.

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+00.00	0.00	0.00	0.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00	0.00	0.00	0.00
1+00.00	18.42	0.00	17.06	0.00	17.06	0.00
1+50.00	31.60	0.00	46.31	0.00	63.37	0.00
2+00.00	44.83	0.00	70.76	0.00	134.13	0.00
2+50.00	58.20	0.00	95.39	0.00	229.53	0.00
3+00.00	71.66	0.00	120.23	0.00	349.76	0.00
3+50.00	85.14	0.00	145.18	0.00	494.94	0.00
4+00.00	98.60	0.00	170.13	0.00	665.08	0.00
4+03.25	99.48	0.00	11.93	0.00	677.01	0.00

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00
1+00.00	23.33	21.60	21.60
1+50.00	23.33	43.21	64.81
2+00.00	23.33	43.21	108.02
2+50.00	23.33	43.21	151.23
3+00.00	23.33	43.21	194.44
3+50.00	23.33	43.21	237.65
4+00.00	23.33	43.21	280.86
4+03.25	23.33	2.81	283.68

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00
1+00.00	22.56	20.89	20.89
1+50.00	22.56	41.78	62.67
2+00.00	22.56	41.78	104.44
2+50.00	22.56	41.78	146.22
3+00.00	22.56	41.78	188.00
3+50.00	22.56	41.78	229.78
4+00.00	22.56	41.78	271.56
4+10.11	22.56	8.45	280.00

Cut and Fill

Pavement

Subbase

Wetheral Slide St.

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+00.00	0.00	0.00	0.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00	0.00	0.00	0.00
1+00.00	0.61	21.08	0.57	19.52	0.57	19.52
1+50.00	1.90	16.39	2.33	34.70	2.89	54.21
2+00.00	0.00	0.00	1.76	15.18	4.65	69.39
2+41.71	0.00	0.00	0.00	0.00	4.65	69.39

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00
1+00.00	11.67	10.80	10.80
1+50.00	11.67	21.60	32.41
2+00.00	0.00	10.80	43.21
2+41.71	0.00	0.00	43.21

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00
1+00.00	12.56	11.63	11.63
1+50.00	12.56	23.26	34.89
2+00.00	0.00	11.63	46.52
2+41.71	0.00	0.00	46.52

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DOWNTOWN REDESIGN

PROJECT ADDRESS 1
PROJECT ADDRESS 2

SHEET NAME
CUT AND FALL

SHEET NO.
28

PROJECT: CEE: 4850
DATE : 11/18/2016
DRAWN BY: cds
REVISION:

Cut and Fill

Pavement

Subbase

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+00.00	0.00	768.71	0.00	0.00	0.00	0.00
0+50.00	0.00	709.48	0.00	1368.70	0.00	1368.70
1+00.00	0.00	580.65	0.00	1194.57	0.00	2563.26
1+50.00	0.00	436.73	0.00	942.02	0.00	3505.29
2+00.00	0.00	279.58	0.00	663.25	0.00	4168.54
2+50.00	0.00	148.29	0.00	396.18	0.00	4564.71
3+00.00	0.00	0.00	0.00	137.30	0.00	4702.02
3+50.00	0.00	0.00	0.00	0.00	0.00	4702.02
4+00.00	0.00	0.00	0.00	0.00	0.00	4702.02
4+50.00	105.41	0.00	97.61	0.00	97.61	4702.02
5+00.00	129.33	0.00	217.35	0.00	314.96	4702.02
5+50.00	0.00	0.00	119.75	0.00	434.71	4702.02
6+00.00	0.00	0.00	0.00	0.00	434.71	4702.02
6+50.00	0.00	0.00	0.00	0.00	434.71	4702.02
7+00.00	407.13	0.00	376.97	0.00	811.68	4702.02
7+50.00	477.33	0.00	818.94	0.00	1630.62	4702.02
8+00.00	505.33	0.00	909.87	0.00	2540.49	4702.02
8+50.00	497.22	0.00	928.29	0.00	3468.78	4702.02
9+00.00	0.00	0.00	460.39	0.00	3929.16	4702.02
9+50.00	0.00	0.00	0.00	0.00	3929.16	4702.02

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	26.83	0.00	0.00
0+50.00	26.83	49.69	49.69
1+00.00	26.83	49.69	99.38
1+50.00	26.83	49.69	149.07
2+00.00	26.83	49.69	198.77
2+50.00	26.83	49.69	248.46
3+00.00	0.00	24.85	273.30
3+50.00	0.00	0.00	273.30
4+00.00	0.00	0.00	273.30
4+50.00	26.83	24.85	298.15
5+00.00	26.83	49.69	347.84
5+50.00	0.00	24.85	372.69
6+00.00	0.00	0.00	372.69
6+50.00	0.00	0.00	372.69
7+00.00	26.83	24.85	397.53
7+50.00	26.83	49.69	447.22
8+00.00	26.83	49.69	496.91
8+50.00	26.83	49.69	546.60
9+00.00	0.00	24.85	571.45
9+50.00	0.00	0.00	571.45

Material Table			
Station	Area	Volume	Cumulative Volume
10+00.00	26.83	24.85	596.30
10+50.00	26.83	49.69	645.99
11+00.00	26.83	49.69	695.68
11+50.00	26.83	49.69	745.37
12+00.00	26.83	49.69	795.06
12+50.00	0.00	24.85	819.91
13+00.00	0.00	0.00	819.91
13+50.00	26.83	24.85	844.75
14+00.00	26.83	49.69	894.44
14+50.00	26.83	49.69	944.14
15+00.00	26.83	49.69	993.83
15+50.00	26.83	49.69	1043.52
16+00.00	26.83	49.69	1093.21
16+50.00	26.83	49.69	1142.90
17+00.00	26.83	49.69	1192.59
17+50.00	26.83	49.69	1242.28
18+00.00	26.83	49.69	1291.98
18+50.00	26.83	49.69	1341.67
18+97.20	26.83	46.90	1388.57

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	25.56	0.00	0.00
0+50.00	25.56	47.33	47.33
1+00.00	25.56	47.33	94.67
1+50.00	25.56	47.33	142.00
2+00.00	25.56	47.33	189.33
2+50.00	25.56	47.33	236.67
3+00.00	0.00	23.67	260.33
3+50.00	0.00	0.00	260.33
4+00.00	0.00	0.00	260.33
4+50.00	25.56	23.67	284.00
5+00.00	25.56	47.33	331.33
5+50.00	0.00	23.67	355.00
6+00.00	0.00	0.00	355.00
6+50.00	0.00	0.00	355.00
7+00.00	25.56	23.67	378.67
7+50.00	25.56	47.33	426.00
8+00.00	25.56	47.33	473.33
8+50.00	25.56	47.33	520.67
9+00.00	0.00	23.67	544.33
9+50.00	0.00	0.00	544.33

Material Table			
Station	Area	Volume	Cumulative Volume
10+00.00	25.56	23.67	568.00
10+50.00	25.56	47.33	615.33
11+00.00	25.56	47.33	662.67
11+50.00	25.56	47.33	710.00
12+00.00	25.56	47.33	757.33
12+50.00	0.00	23.67	781.00
13+00.00	0.00	0.00	781.00
13+50.00	25.56	23.67	804.67
14+00.00	25.56	47.33	852.00
14+50.00	25.56	47.33	899.33
15+00.00	25.56	47.33	946.67
15+50.00	25.56	47.33	994.00
16+00.00	25.56	47.33	1041.33
16+50.00	25.56	47.33	1088.67
17+00.00	25.56	47.33	1136.00
17+50.00	25.56	47.33	1183.33
18+00.00	25.56	47.33	1230.67
18+50.00	25.56	47.33	1278.00
18+97.20	25.56	44.68	1322.68

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
10+00.00	478.88	0.00	443.40	0.00	4372.57	4702.02
10+50.00	444.21	0.00	854.71	0.00	5227.27	4702.02
11+00.00	408.99	0.00	790.00	0.00	6017.27	4702.02
11+50.00	380.64	0.00	731.14	0.00	6748.41	4702.02
12+00.00	356.96	0.00	682.96	0.00	7431.37	4702.02
12+50.00	0.00	0.00	330.52	0.00	7761.89	4702.02
13+00.00	0.00	0.00	0.00	0.00	7761.89	4702.02
13+50.00	213.67	0.00	197.84	0.00	7959.74	4702.02
14+00.00	179.38	0.00	363.94	0.00	8323.68	4702.02
14+50.00	138.64	0.00	294.47	0.00	8618.14	4702.02
15+00.00	566.15	0.00	652.59	0.00	9270.73	4702.02
15+50.00	84.05	0.00	602.04	0.00	9872.77	4702.02
16+00.00	10.51	1.11	87.55	1.03	9960.32	4703.05
16+50.00	3.32	20.74	12.81	20.23	9973.13	4723.28
17+00.00	0.00	57.00	3.08	71.98	9976.21	4795.27
17+50.00	0.00	67.64	0.00	115.41	9976.21	4910.68
18+00.00	0.00	78.10	0.00	134.94	9976.21	5045.62
18+50.00	0.00	109.86	0.00	174.04	9976.21	5219.66
18+97.20	0.00	92.06	0.00	176.48	9976.21	5396.14

MAIN ST.

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PROJECT ADDRESS 1
PROJECT ADDRESS 2

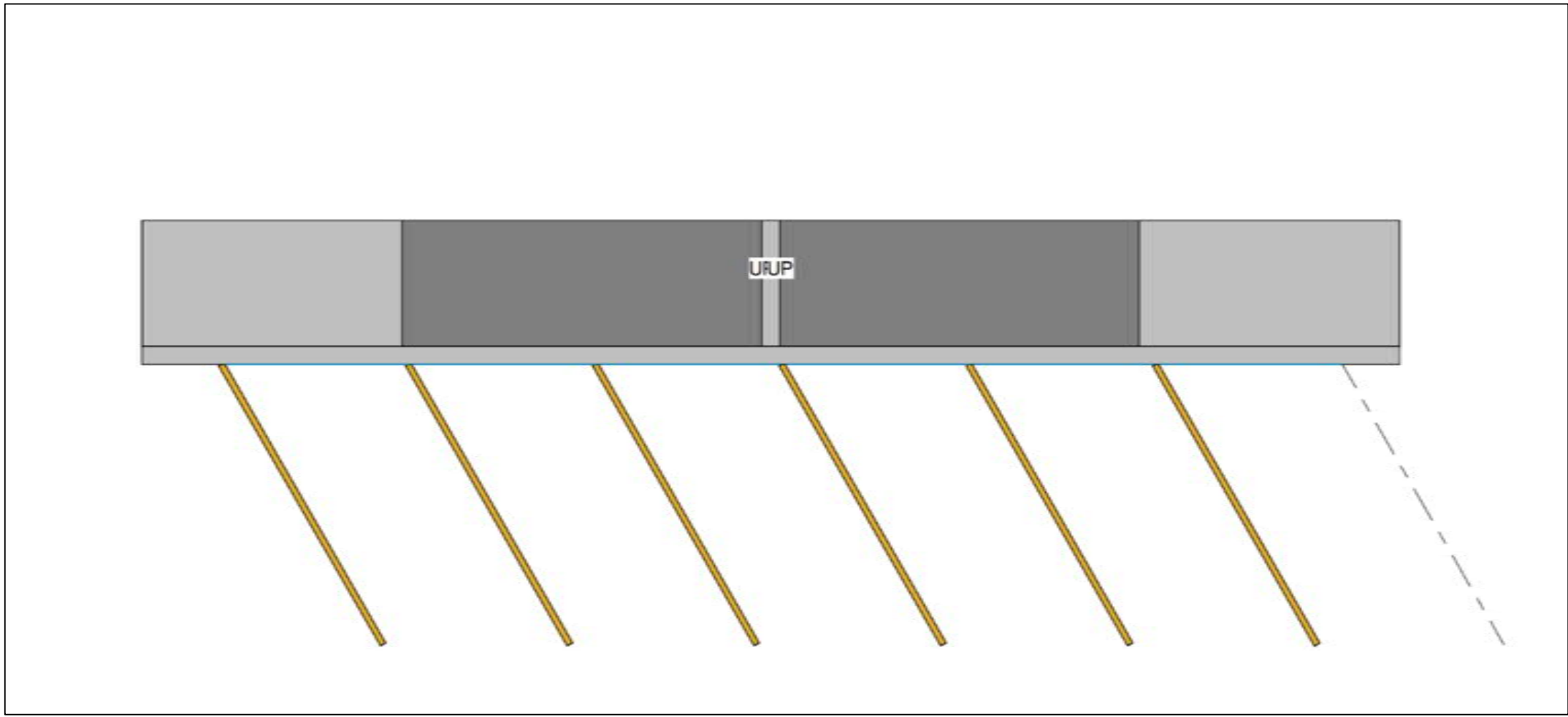
SHEET NAME

CUT AND FALL

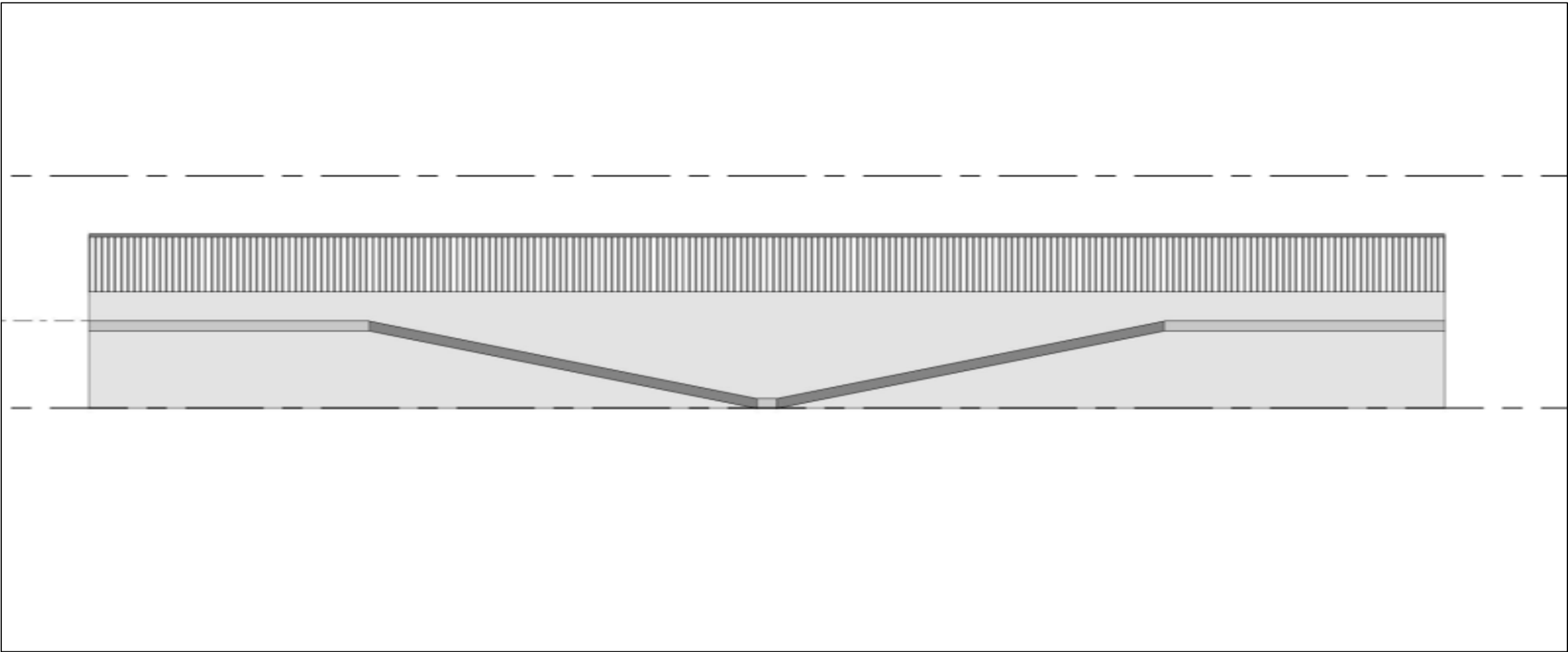
SHEET NO.

29

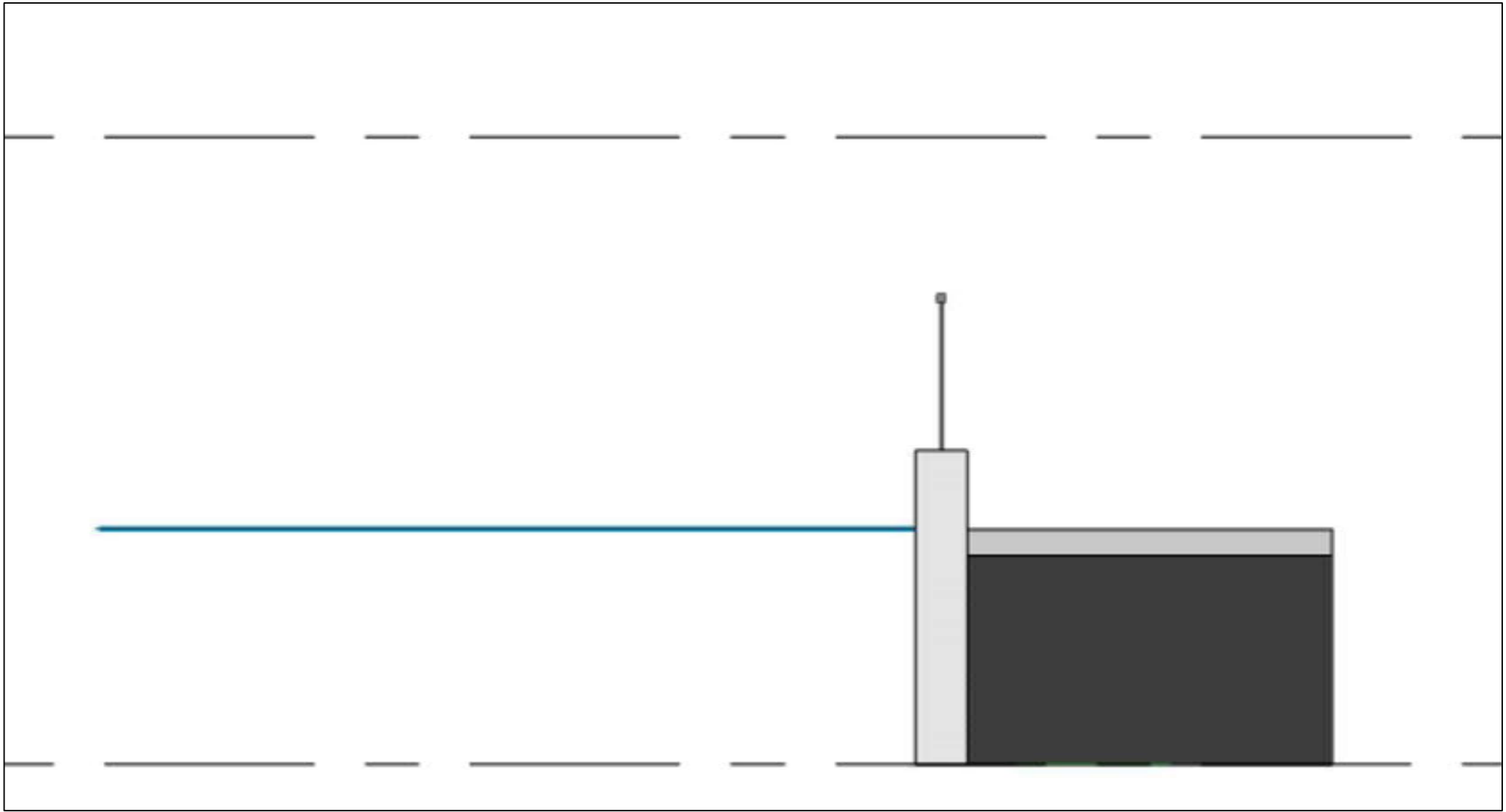
PROJECT: CEE: 4850
DATE : 11/18/2016
DRAWN BY: cds
REVISION:



Plan View



Profile View



Side View

PROJECT:	CEE: 4850
DATE :	11 /18 /2016
DRAWN BY:	cds
REVISION:	

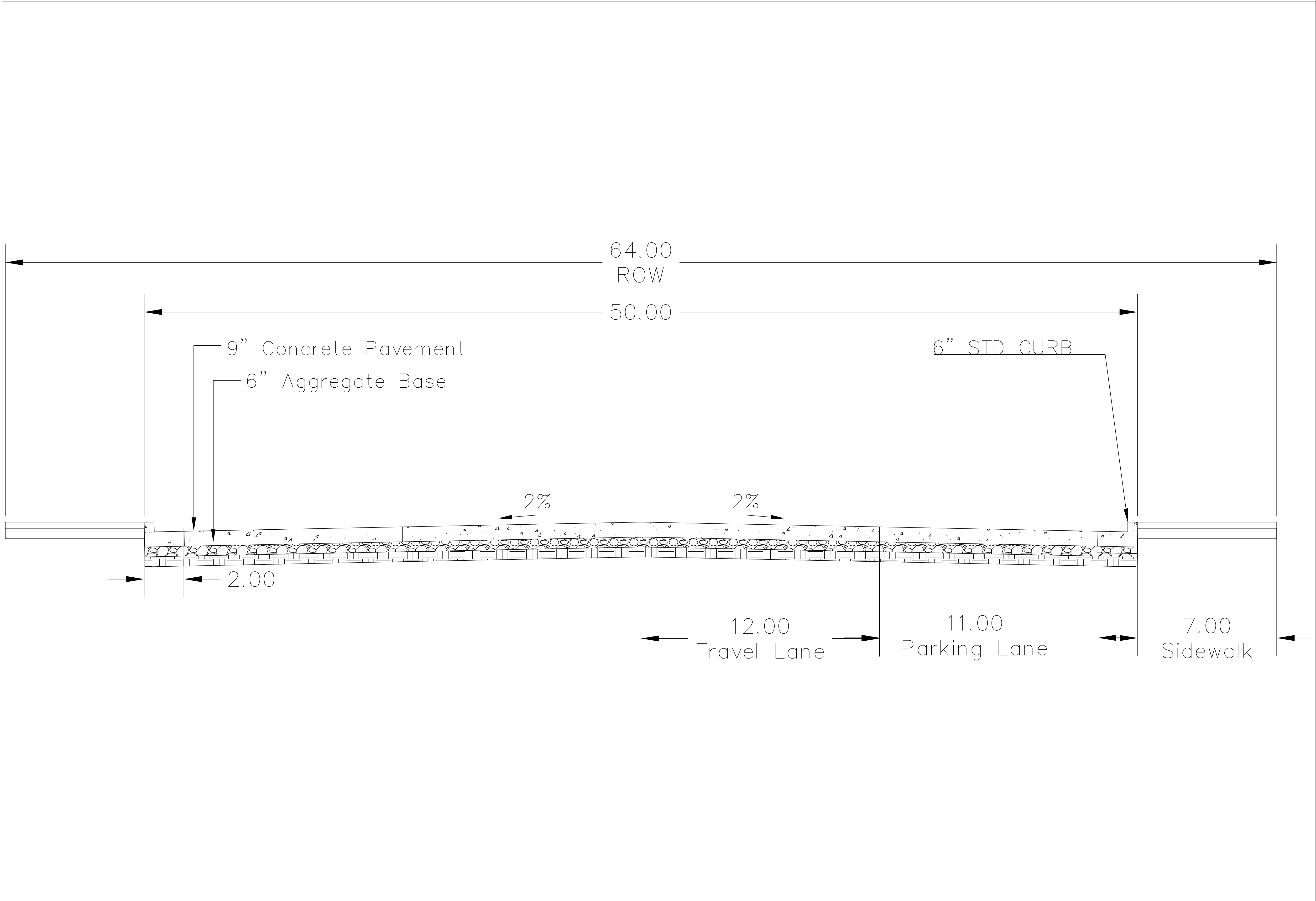
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PROJECT ADDRESS 1
PROJECT ADDRESS 2

SHEET NAME
RETAINING WALL
SHEET NO.



PROJECT:	CEE: 4850
DATE :	11 /18 /2016
DRAWN BY:	cds
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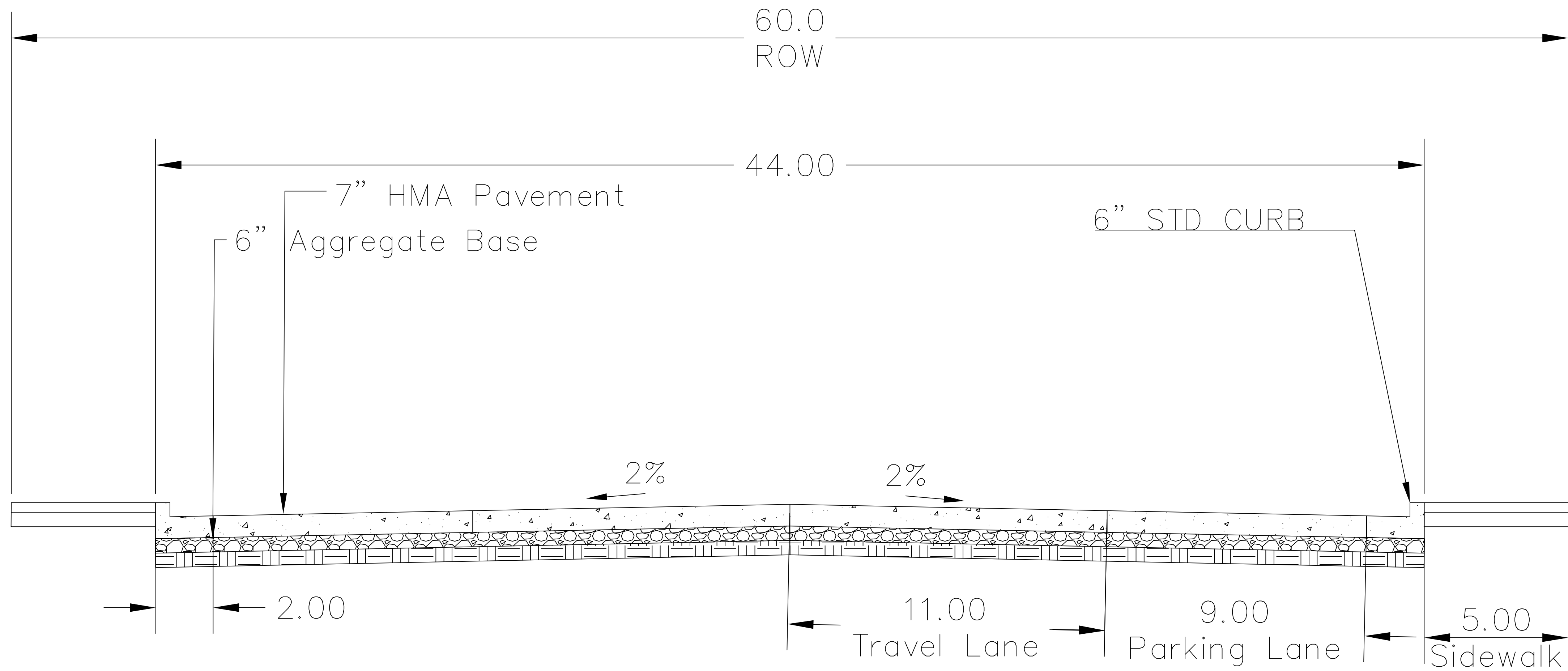
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Downtown Redesign

WEST BRANCH, IA

SHEET NAME
Main St
Cross Sections

SHEET NO.
31



PROJECT:	CEE: 4850
DATE :	11 /18 /2016
DRAWN BY:	cds
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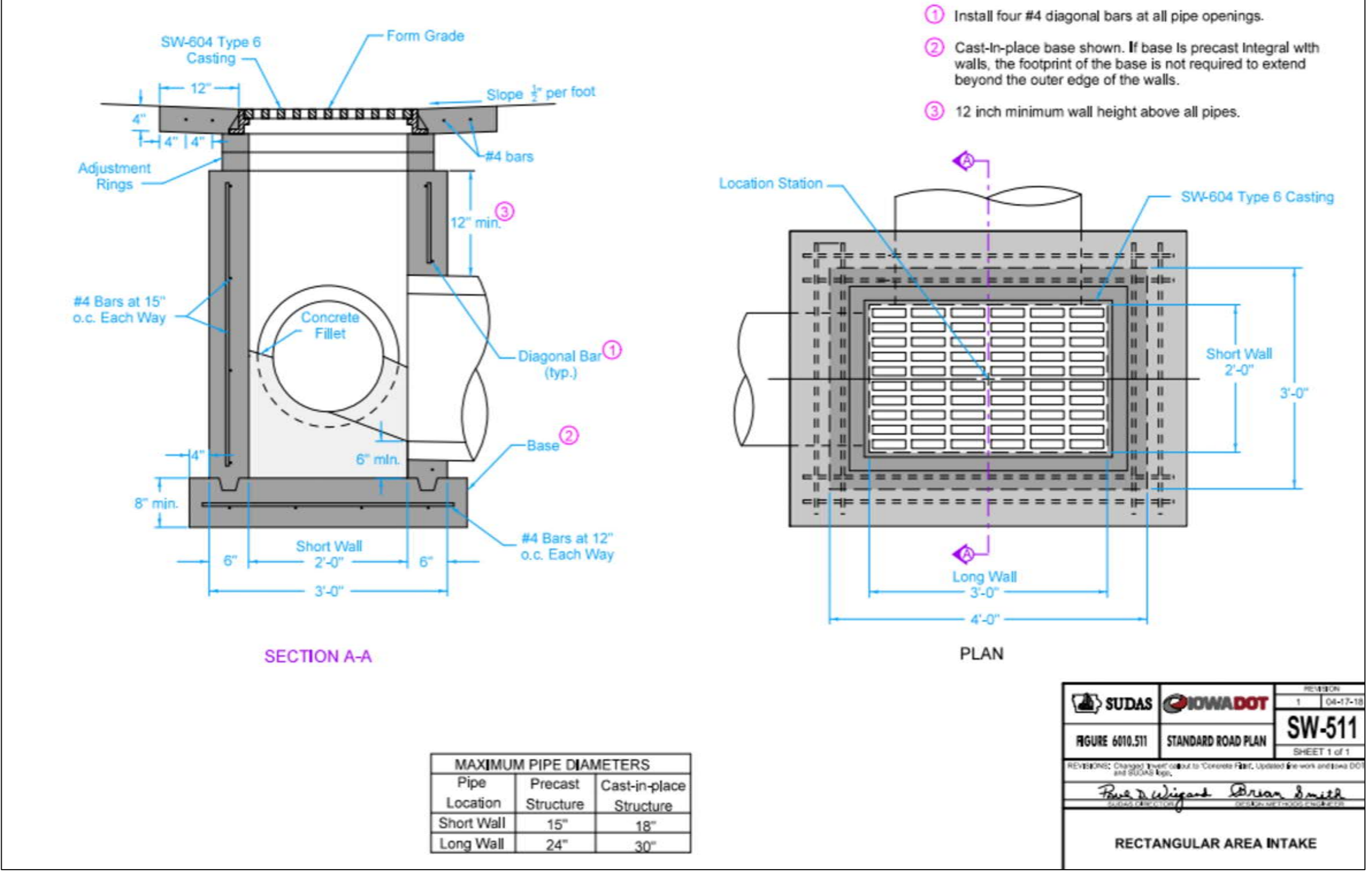
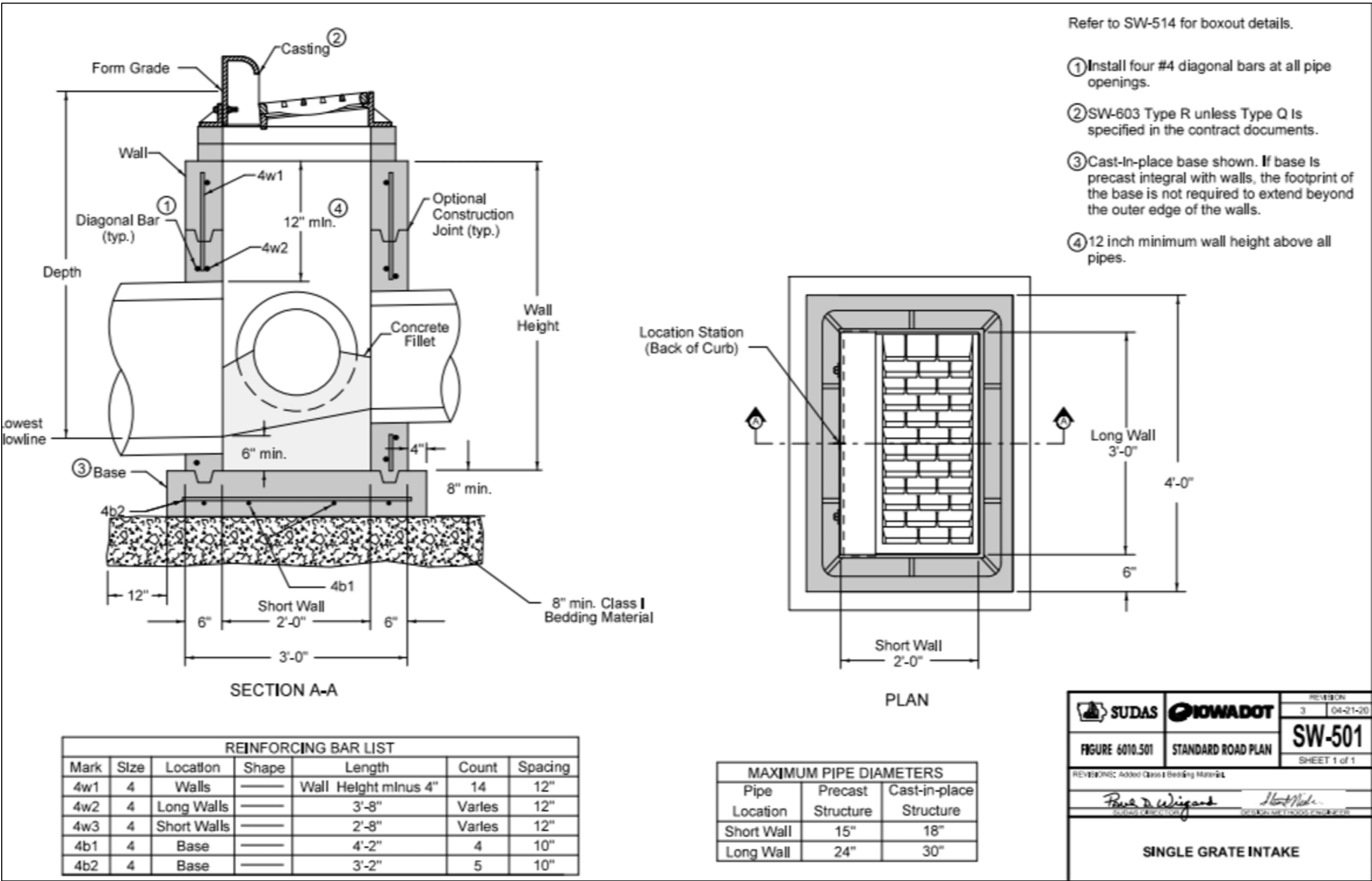
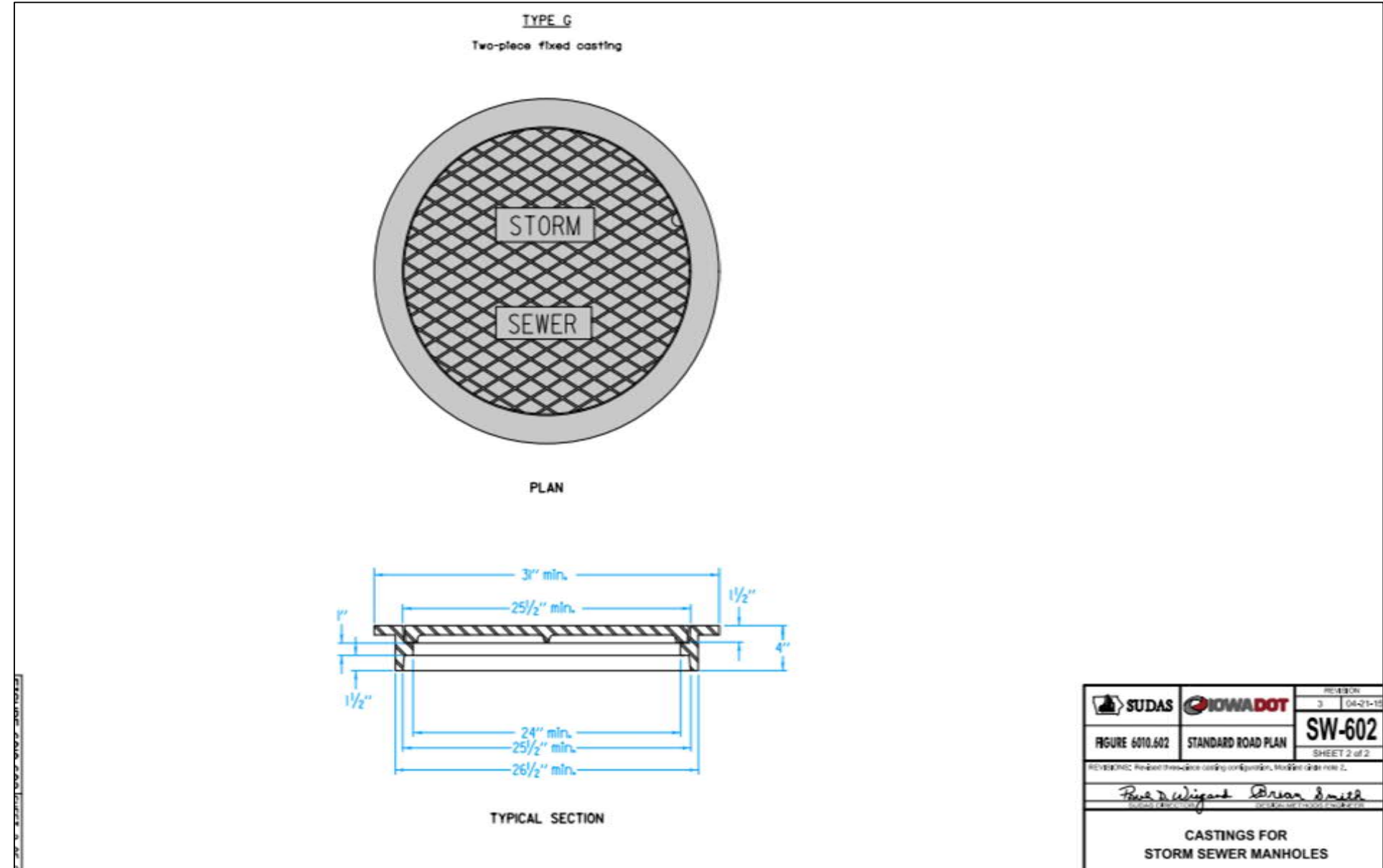
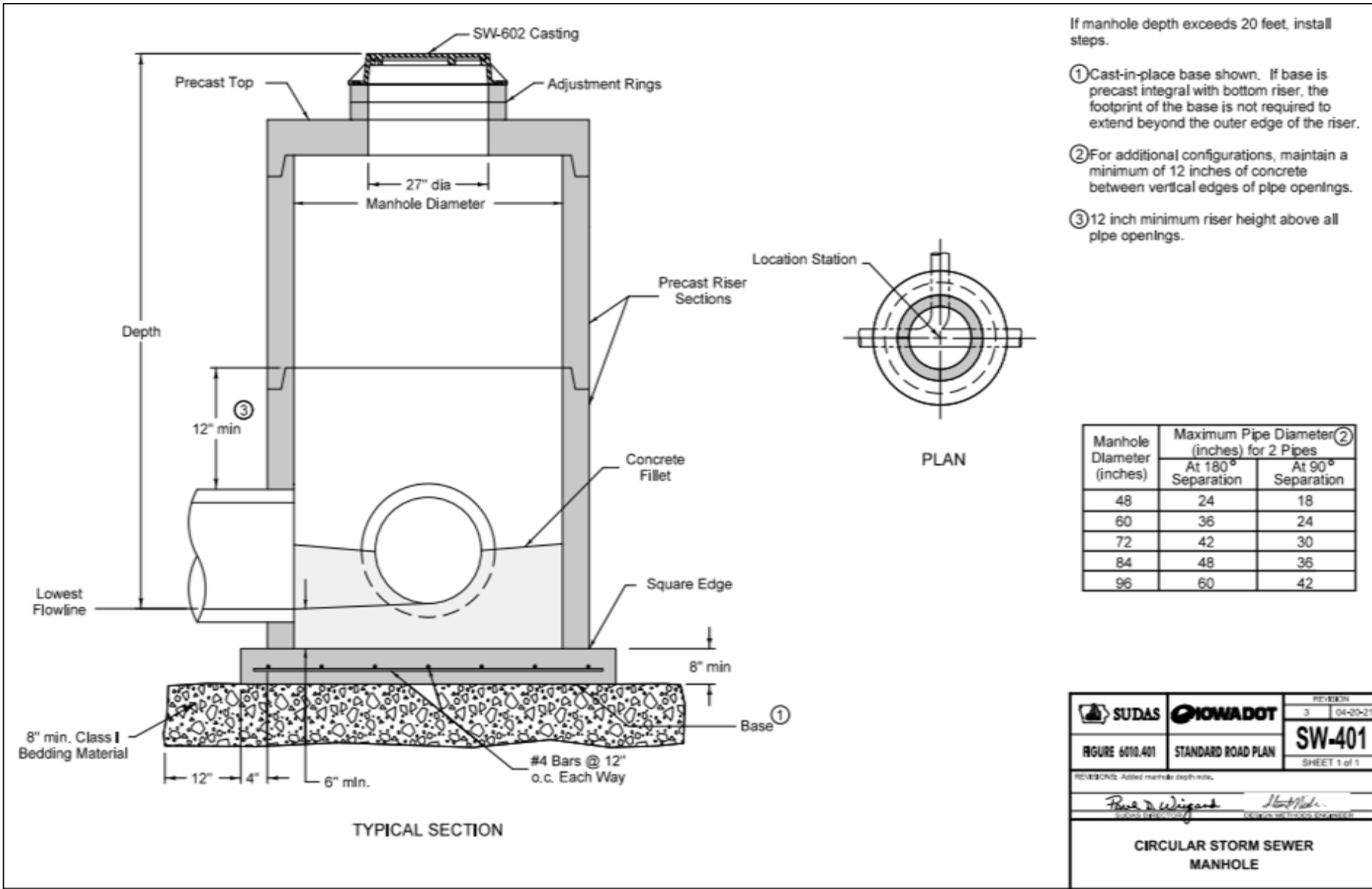
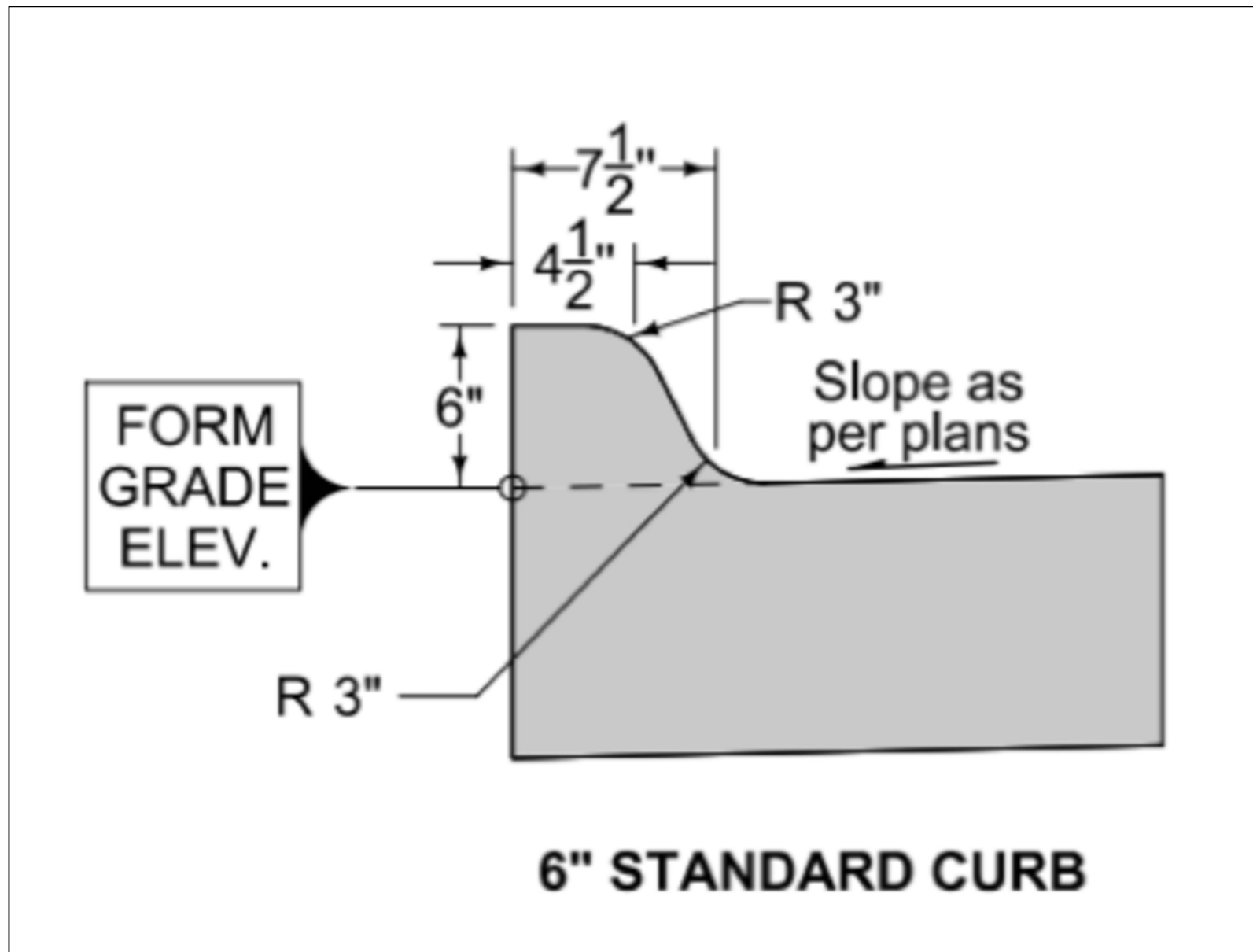
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Downtown Redesign

WEST BRANCH, IA

SHEET NAME
Side Streets
Cross Sections

SHEET NO.
32



PROJECT: CEE: 4850
DATE: 11/18/2016
DRAWN BY: cds
REVISION:

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WEST BRANCH, IA

SHEET NAME

DETAILS
SHEET

SHEET NO.

33

Item Description	Quantity	Unit	Unit Price	Item Cost
MOBILIZATION	1	LS	396335.55	396335.55
CONSTRUCTION STAKING	1	LS	16831.22	16831.22
TRAFFIC CONTROL	1	LS	14740.18	14740.18
PAVEMENT REMOVAL	21570.4	SY	12.75	275022.60
SIDEWALK REMOVAL	3117.9	SY	11.05	34452.80
CURB AND GUTTER REMOVAL	4853.3	LF	11.50	55813.41
STORM SEWER REMOVAL	975.7	LF	10.87	10605.86
SANITARY SEWER REMOVAL	2760.0	LF	20.5	56580.00
WATERMAIN REMOVAL	3225.3	LF	27.17	87631.40
STRUCTURE REMOVAL	21	EACH	839.62	17632.02
LIGHT POLE REMOVAL	48	EACH	742.28	35629.44
EXCAVATION CLASS 10, ROADWAY AND BORROW	7007.8	CY	8.36	58584.79
EMBANKMENT	11420.6	CY	15.12	172679.47
TRENCH BACKFILL STORMSEWER (GRANULAR)	433.6	CY	32.32	14015.39
TRENCH BACKFILL SANITERY SEWER (GRANULAR)	1226.7	CY	33.32	40872.53
TRENCH BACKFILL STORMSEWER (GRANULAR)	1433.5	CY	34.32	49196.58
COMPACTION WITH MOISTURE AND DENSITY CONTROL	3093.8	CY	0.8	2475.02
SUBGRADE PREPARATION	31228.0	SY	2.95	92122.72
SUBBASE, 6" GRANULAR	22835.2	SY	12.69	289778.69
STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 2 DURABILITY, 9 IN.	9696.8	SY	74.59	723284.31
HOT MIX ASPHALT STANDARD TRAFFIC, BASE COURSE, 1/2 IN. MIX, 3"	39415.2	TON	54.61	2152464.07
HOT MIX ASPHALT STANDARD TRAFFIC, INTERMEDIATE COURSE, 1/2 IN. MIX, 2"	26276.8	TON	48.58	1276526.94
HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, 2"	26276.8	TON	50.01	1314102.77
POC SIDEWALK, 6"	3117.9	SY	68.9	214823.31
ADA RAMPS, DETECTABLE WARNINGS	435	SF	47.59	20701.65
BRICK CROSSWALK	37.3	SY	117.18	4370.81
PAINTED PAVEMENT MARKINGS, WATERBORNE	49	STA	41.99	2057.51
STORM SEWER, TRENCHED, 15", CONCRETE	864.6	LF	98.35	85033.41
STORM SEWER, TRENCHED, 18", CONCRETE	111.1	LF	95.97	10662.27
STORM SEWER, MANHOLE SW-401 48" DIA.	2	EACH	5639.53	11279.06
STORM SEWER, INTAKE SW-501 36" DIA.	4	EACH	4707.55	18830.20
STORM SEWER, INTAKE SW-511 36" DIA.	3	EACH	5980.17	17940.51
SANITARY SEWER PIPE, PVC, 8"	1275.5	LF	51.50	65688.25
SANITARY SEWER PIPE, PVC, 10"	1067.6	LF	63.00	67258.80
SANITARY SEWER PIPE, PVC, 15"	416.9	LF	79.84	33285.30
MANHOLES	14	EACH	13168.90	184364.60
WATERMAIN, TRENCHED, 4", PVC	889.3	LF	44.61	39671.67
WATERMAIN, TRENCHED, 6", PVC	1579.6	LF	48.48	76579.01
WATERMAIN, TRENCHED, 8", PVC	756.4	LF	98.97	74860.91
GATE VALVES	21	EACH	2062.04	43302.84
FIRE HYDRANT	7	EACH	6541.64	45791.48
LIGHT POLE	64	EACH	1381	88384
STRING LIGHTS	5	EACH	320	1600
PLANTERS	12	EACH	550	6600
REMOVE AND REINSTALL STOP SIGN	13.0	EACH	300.00	3900.00
MODULAR BLOCK RETAINING WALL	200.0	SF	45.27	9054.00
STRUCTURAL STEEL PEDESTRIAN HAND RAILING	96.7	LF	116.54	11269.42

PROJECT:CEE: 4850

DATE :4/9/2026

DRAWN BY:MMJ

REVISION:

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CIVIL AND ENVIRONMENTAL ENGINEERING

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WEST BRANCH, IA

SHEET NAME

QUANTITIES

SHEET NO.

34