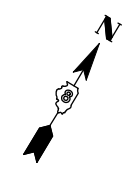


Y		
POINT NUMBER	NORTHING	EASTING
Y1	669435.5147	2343895.0258
Y2	669435.3412	2343906.3409
Y3	669432.1531	2343917.1990
Y4	669426.5195	2343926.4880
Y5	669422.8706	2343934.1127
Y6	669421.6633	2343942.4788
Y7	669422.2389	2343949.7343
Y8	669426.3099	2343993.3922
Y9	669427.6970	2344004.7741
Y10	669432.0717	2344014.8060
Y11	669439.6148	2344022.7355
Y12	669476.3989	2344043.0275
Y13	669485.9768	2344045.7119
Y14	669495.1382	2344045.0690
Y15	669505.0479	2344043.9167
Y16	669514.9497	2344045.1342



FILE NAME =	USER NAME = beriechmann	DESIGNED -	REVISED -
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PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 3/20/2012		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



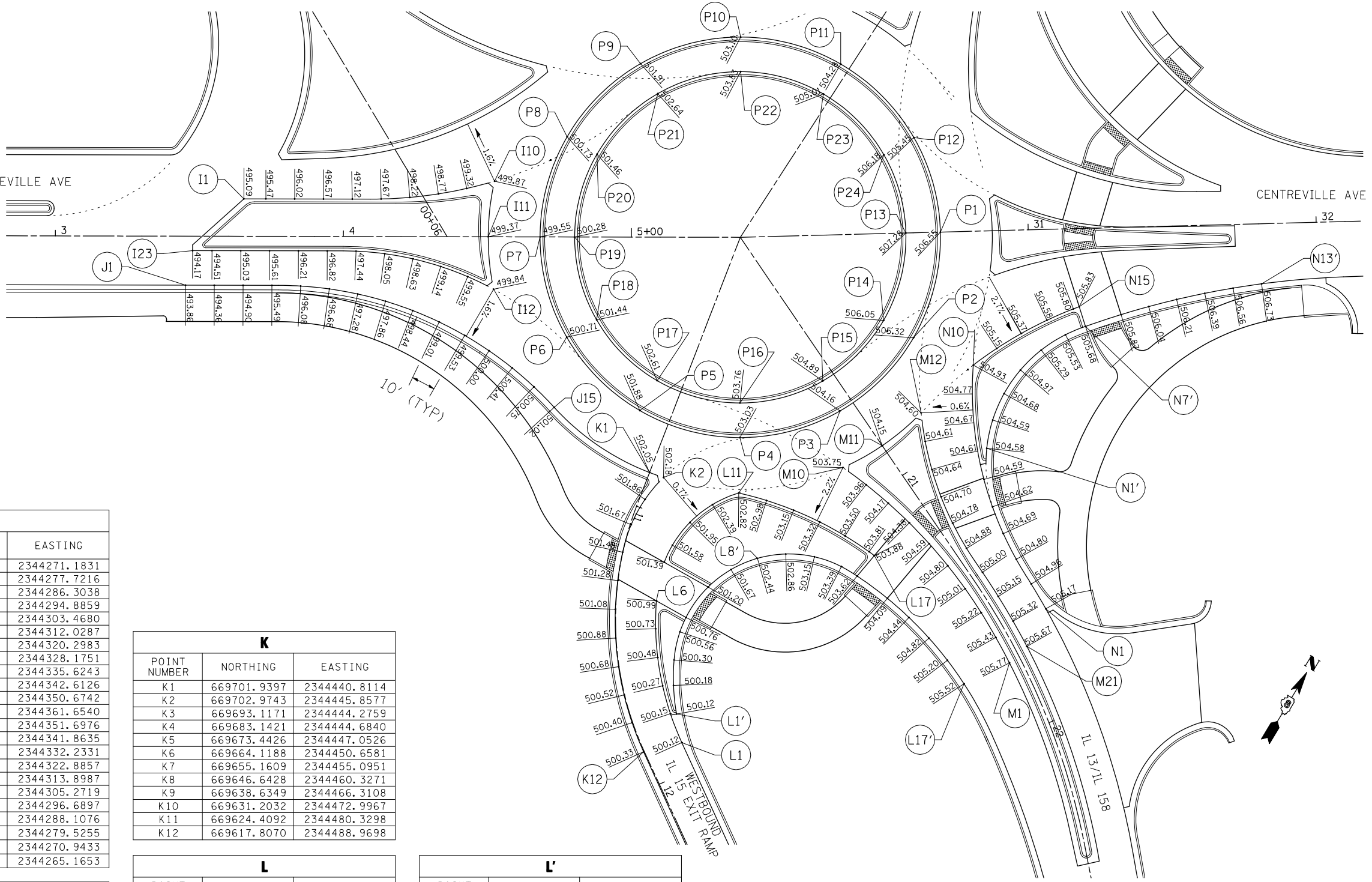
**SIDEWALK ELEVATIONS  
SOUTHERN ROUNDABOUT**

SCALE: SHEET NO. 3 OF 3 SHEETS STA. TO STA.

① F.A.P. RTE 809 / F.A.U. RTE 9251 / F.A.U. RTE 9269				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
①	135-N	ST. CLAIR	206	101
CONTRACT NO. 76D06				
ILLINOIS FED. AID PROJECT				

IL 158/CENTREVILLE AVE

CENTREVILLE AVE



POINT NUMBER	NORTHING	EASTING
I1	669710.8284	2344271.1831
I2	669714.7390	2344277.7216
I3	669719.8719	2344286.3038
I4	669725.0048	2344294.8859
I5	669730.1378	2344303.4680
I6	669735.3103	2344312.0287
I7	669740.9297	2344320.2983
I8	669747.0875	2344328.1751
I9	669753.7564	2344335.6243
I10	669760.9066	2344342.6126
I11	669743.2233	2344350.6742
I12	669728.5911	2344361.6540
I13	669727.6960	2344351.6976
I14	669725.9008	2344341.8635
I15	669723.2202	2344332.2331
I16	669719.6764	2344322.8857
I17	669715.2986	2344313.8987
I18	669710.2428	2344305.2719
I19	669705.1099	2344296.6897
I20	669699.9770	2344288.1076
I21	669694.8441	2344279.5255
I22	669689.7111	2344270.9433
I23	669686.2553	2344265.1653

POINT NUMBER	NORTHING	EASTING
J1	669674.6986	2344269.2212
J2	669679.8315	2344277.8033
J3	669684.9644	2344286.3854
J4	669690.0974	2344294.9676
J5	669695.0310	2344303.6636
J6	669699.2995	2344312.7041
J7	669702.8606	2344322.0459
J8	669705.6933	2344331.6337
J9	669707.7808	2344341.4108
J10	669709.1109	2344351.3195
J11	669709.6755	2344361.3011
J12	669709.4714	2344371.2965
J13	669708.4998	2344381.2467
J14	669706.7664	2344391.0928
J15	669704.2815	2344400.7766

POINT NUMBER	NORTHING	EASTING
K1	669701.9397	2344440.8114
K2	669702.9743	2344445.8577
K3	669693.1171	2344444.2759
K4	669683.1421	2344444.6840
K5	669673.4426	2344447.0526
K6	669664.1188	2344450.6581
K7	669655.1609	2344455.0951
K8	669646.6428	2344460.3271
K9	669638.6349	2344466.3108
K10	669631.2032	2344472.9967
K11	669624.4092	2344480.3298
K12	669617.8070	2344488.9698

POINT NUMBER	NORTHING	EASTING
L1	669627.3613	2344498.7066
L2	669633.9381	2344490.1246
L3	669640.8088	2344482.8644
L4	669648.3700	2344476.3264
L5	669656.5461	2344470.5759
L6	669664.9920	2344465.8009
L7	669677.8694	2344461.2262
L8	669684.4066	2344460.6062
L9	669694.3176	2344461.7253
L10	669703.6436	2344465.2616
L11	669711.8049	2344470.9952
L12	669714.5438	2344480.6100
L13	669716.5056	2344490.4130
L14	669717.6777	2344500.3414
L15	669718.0526	2344510.3317
L16	669717.6280	2344520.3200
L17	669717.4222	2344522.5517

POINT NUMBER	NORTHING	EASTING
L1'	669634.9308	2344492.0047
L2'	669642.9144	2344485.9952
L3'	669650.5673	2344481.6160
L4'	669659.9837	2344478.3280
L5'	669665.3210	2344477.5579
L6'	669678.3583	2344478.7121
L7'	669687.6295	2344482.3897
L8'	669695.7026	2344488.2468
L9'	669702.0757	2344495.9191
L10'	669706.3525	2344504.9296
L11'	669708.2671	2344514.7181
L12'	669708.2570	2344521.1032
L13'	669707.0301	2344534.0707
L14'	669705.2104	2344543.9013
L15'	669702.6417	2344553.5632
L16'	669699.3381	2344562.9991
L17'	669695.3191	2344572.1533

POINT NUMBER	NORTHING	EASTING
M1	669709.6775	2344581.9141
M2	669714.7991	2344573.3260
M3	669719.5498	2344564.5276
M4	669723.8106	2344555.4824
M5	669727.5479	2344546.2085
M6	669730.7495	2344536.7363
M7	669733.4048	2344527.0968
M8	669735.5053	2344517.3213
M9	669737.0441	2344507.4418
M10	669738.0161	2344497.4906
M11	669751.5417	2344505.2476
M12	669768.2521	2344510.9783
M13	669760.4962	2344517.2852
M14	669753.3448	2344524.2702
M15	669746.8571	2344531.8756
M16	669741.0867	2344540.0385
M17	669736.0811	2344548.6916
M18	669731.7871	2344557.7214
M19	669727.4342	2344566.7236
M20	669722.7304	2344575.5475
M21	669717.6817	2344584.1788

POINT NUMBER	NORTHING	EASTING
N1	669732.2600	2344583.0800
N2	669737.0355	2344574.2946
N3	669741.7040	2344565.4528
N4	669747.0289	2344556.9918
N5	669753.0395	2344549.0034
N6	669759.6942	2344541.5430
N7	669766.9467	2344534.6624
N8	669774.7469	2344528.4094
N9	669783.0404	2344522.8273
N10	669791.7698	2344517.9549
N11	669800.9357	2344521.9480
N12	669809.7932	2344526.5851
N13	669818.2971	2344531.8425
N14	669826.4042	2344537.6934
N15	669828.1067	2344539.0381

POINT NUMBER	NORTHING	EASTING
P1	669825.4708	2344484.3870
P2	669789.2073	2344495.2585
P3	669754.3178	2344486.4841
P4	669728.4899	2344461.4405
P5	669718.6440	2344426.8382
P6	669727.4184	2344391.9488
P7	669752.4619	2344366.1209
P8	669787.0642	2344356.2750
P9	669821.9536	2344365.0493
P10	669847.7816	2344390.0929
P11	669857.6275	2344424.6952
P12	669848.8531	2344459.5846
P13	669819.0245	2344474.2655
P14	669789.0222	2344483.2599
P15	669760.1569	2344476.0005
P16	669738.7884	2344455.2810
P17	669730.6426	2344426.6532
P18	669737.9019	2344397.7879
P19	669758.6214	2344376.4194
P20	669787.2492	2344368.2735
P21	669816.1146	2344375.5329
P22	669837.4830	2344396.2524
P23	669845.6289	2344424.8802
P24	669838.3695	2344453.7456

POINT NUMBER	NORTHING	EASTING
N1'	669769.4680	2344536.8283
N2'	669778.8968	2344533.5473
N3'	669788.7895	2344532.2049
N4'	669798.7517	2344532.8546
N5'	669808.3862	2344535.4706
N6'	669817.3089	2344539.9485
N7'	669823.3566	2344544.4256
N8'	669833.2231	2344552.8922
N9'	669840.5564	2344559.6902
N10'	669847.6591	2344566.7289
N11'	669854.5233	2344574.0003
N12'	669861.1414	2344581.4964
N13'	669867.5059	2344589.2090



① F.A.P. RTE 809 / F.A.U. RTE 9251 / F.A.U. RTE 9269

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



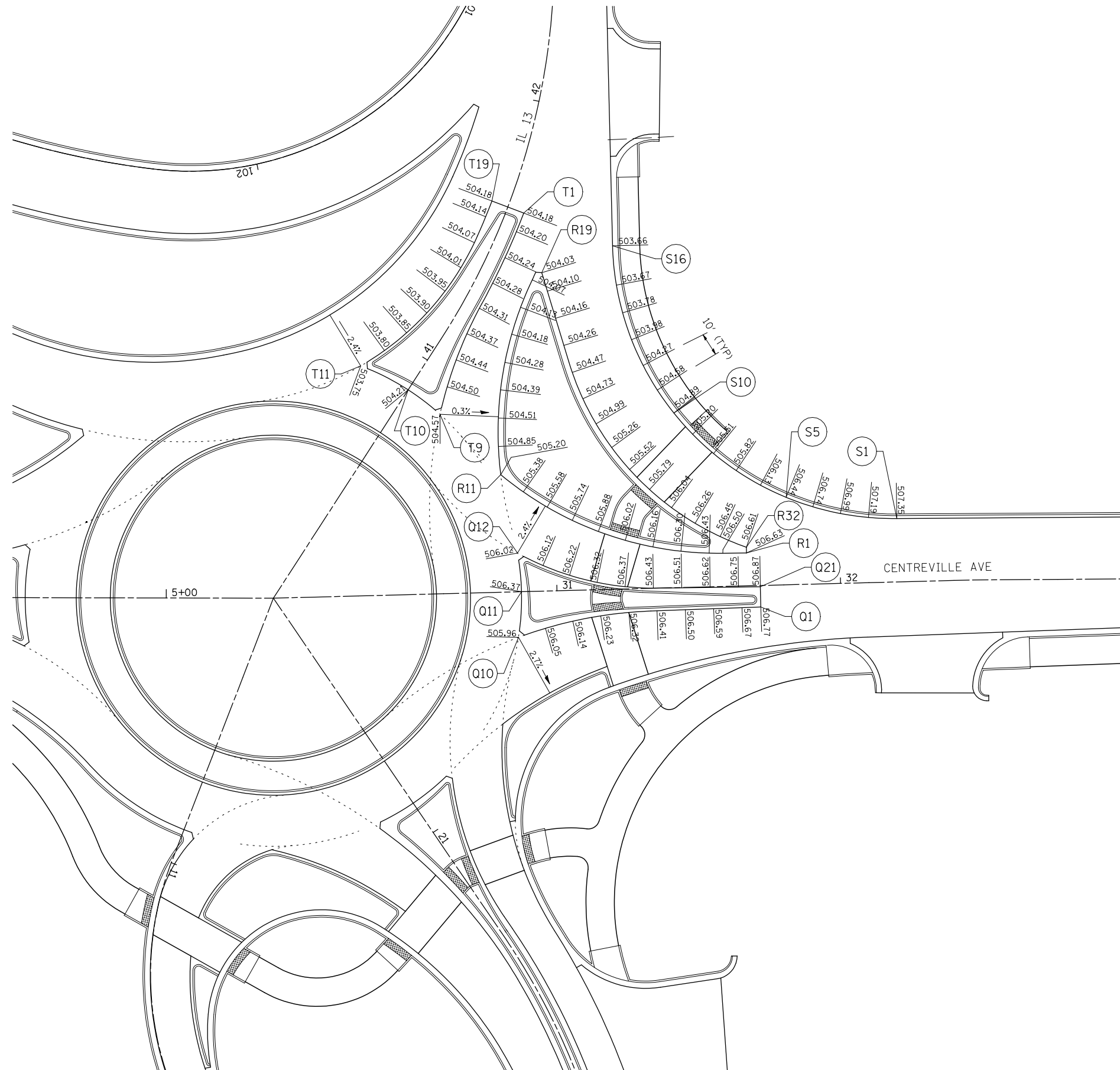
INTERSECTION ELEVATIONS  
NORTHERN ROUNDABOUT

SCALE: SHEET NO. 1 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
①	135-N	ST. CLAIR	206	102
CONTRACT NO. 76D06				
ILLINOIS FED. AID PROJECT				

Q		
POINT NUMBER	NORTHING	EASTING
Q1	669873.9699	2344574.6616
Q2	669870.3491	2344569.1098
Q3	669864.8861	2344560.7339
Q4	669859.4230	2344552.3580
Q5	669853.9600	2344543.9822
Q6	669848.3460	2344535.7449
Q7	669842.2094	2344527.8875
Q8	669835.5446	2344520.4347
Q9	669828.3982	2344513.4425
Q10	669820.8017	2344506.9419
Q11	669835.1413	2344499.5703
Q12	669846.0765	2344491.3362
Q13	669846.9605	2344501.2929
Q14	669848.8340	2344511.1117
Q15	669851.6784	2344520.6943
Q16	669855.4653	2344529.9451
Q17	669860.1542	2344538.7678
Q18	669865.4062	2344547.2775
Q19	669870.6688	2344555.7808
Q20	669875.9313	2344564.2841
Q21	669879.9834	2344570.8316

R		
POINT NUMBER	NORTHING	EASTING
R1	669887.7065	2344560.5079
R2	669883.3174	2344553.4160
R3	669880.8747	2344549.2860
R4	669876.3198	2344540.3738
R5	669872.5274	2344531.1239
R6	669869.5182	2344521.5904
R7	669867.3128	2344511.8396
R8	669865.9268	2344501.9390
R9	669865.3697	2344491.9574
R10	669865.6453	2344481.9641
R11	669866.7518	2344472.0285
R12	669874.8716	2344466.1961
R13	669883.4314	2344461.0312
R14	669892.3766	2344456.5670
R15	669901.4612	2344452.8994
R16	669911.1922	2344449.8497
R17	669920.9422	2344447.6397
R18	669931.3441	2344446.1636
R19	669935.2589	2344447.7592
R20	669930.7044	2344452.7951
R21	669923.9956	2344460.2108
R22	669917.2870	2344467.6267
R23	669910.6378	2344475.0889
R24	669904.6158	2344483.0678
R25	669899.4204	2344491.6080
R26	669895.1036	2344500.6243
R27	669891.7085	2344510.0264
R28	669889.2691	2344519.7206
R29	669887.8098	2344529.6099
R30	669887.3451	2344539.5955
R31	669887.8796	2344549.5775
R32	669889.4081	2344559.4564



S		
POINT NUMBER	NORTHING	EASTING
S1	669925.402	2344599.675
S2	669920.5823	2344590.918
S3	669916.6702	2344581.719
S4	669913.7056	2344572.173
S5	669911.7188	2344562.377
S6	669910.7299	2344552.43
S7	669910.749	2344542.435
S8	669911.776	2344532.492
S9	669913.8004	2344522.703
S10	669916.8016	2344513.169
S11	669920.7489	2344503.985
S12	669925.6021	2344495.247
S13	669931.3118	2344487.042
S14	669937.8197	2344479.455
S15	669945.0594	2344472.563
S16	669956.2466	2344464.237

T		
POINT NUMBER	NORTHING	EASTING
T1	669949.9983	2344431.4689
T2	669943.0360	2344432.6161
T3	669933.1210	2344433.9123
T4	669923.1629	2344434.8202
T5	669913.1777	2344435.3572
T6	669903.2160	2344436.2110
T7	669893.3334	2344437.7266
T8	669883.5737	2344439.8971
T9	669873.9802	2344442.7130
T10	669875.5895	2344428.6436
T11	669874.2001	2344409.9770
T12	669883.1847	2344414.3582
T13	669892.5618	2344417.8205
T14	669902.2377	2344420.3294
T15	669912.1157	2344421.8597
T16	669922.0972	2344422.3963
T17	669932.0824	2344421.9336
T18	669941.9967	2344420.6361
T19	669947.8844	2344419.6566

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



INTERSECTION ELEVATIONS  
NORTHERN ROUNDABOUT

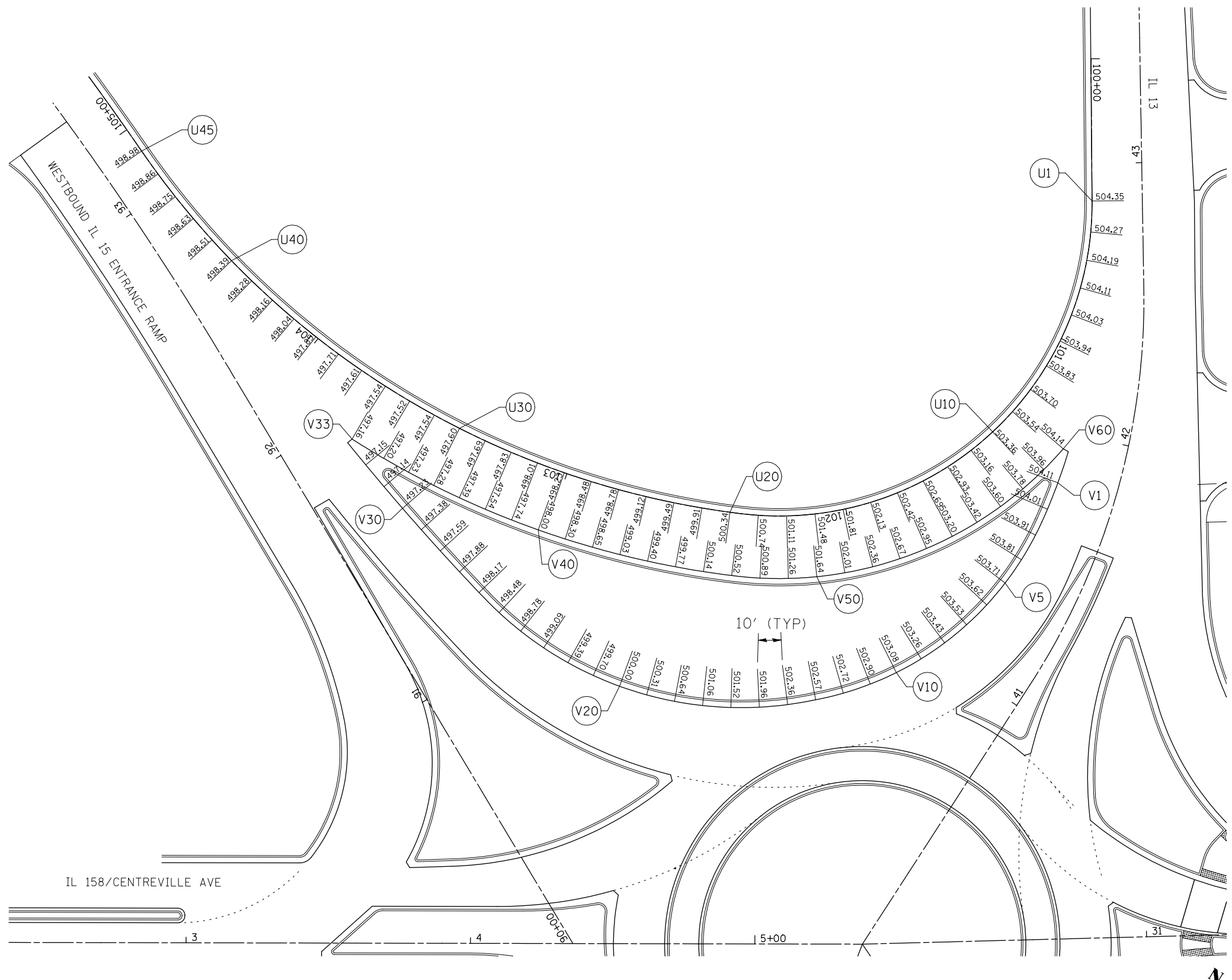
SCALE: SHEET NO. 2 OF 7 SHEETS STA. TO STA.

① F.A.P. RTE 809 / F.A.U. RTE 9251 / F.A.U. RTE 9269

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
①	135-N	ST. CLAIR	206	103
				CONTRACT NO. 76D06
ILLINOIS FED. AID PROJECT				

U		
POINT NUMBER	NORTHING	EASTING
U1	670053.7803	2344360.3927
U2	670044.1503	2344365.6338
U3	670034.9550	2344369.5552
U4	670025.4416	2344372.6257
U5	670015.6888	2344374.8198
U6	670005.7771	2344376.1194
U7	669995.7883	2344376.5139
U8	669985.8049	2344375.9999
U9	669975.9095	2344374.5817
U10	669966.1836	2344372.2710
U11	669956.7077	2344369.0869
U12	669947.5600	2344365.0556
U13	669938.8160	2344360.2106
U14	669930.5480	2344354.5917
U15	669922.8242	2344348.2455
U16	669915.7085	2344341.2242
U17	669909.2595	2344333.5859
U18	669903.5307	2344325.3938
U19	669898.5692	2344316.7153
U20	669894.3705	2344307.6421
U21	669890.5668	2344298.3943
U22	669887.0734	2344289.0249
U23	669883.8942	2344279.5442
U24	669881.0327	2344269.9629
U25	669878.4921	2344260.2916
U26	669876.2752	2344250.5409
U27	669874.3846	2344240.7218
U28	669872.8222	2344230.8451
U29	669871.5899	2344220.9218
U30	669870.6889	2344210.9630
U31	669870.1204	2344200.9797
U32	669869.8848	2344190.9830
U33	669869.9826	2344180.9840
U34	669870.4136	2344170.9938
U35	669871.1772	2344161.0235
U36	669872.2727	2344151.0842
U37	669873.6989	2344141.1869
U38	669875.4541	2344131.3427
U39	669877.5364	2344121.5624
U40	669879.9435	2344111.8570
U41	669882.6727	2344102.2371
U42	669885.7210	2344092.7136
U43	669889.0850	2344083.2970
U44	669892.7610	2344073.9977
U45	669896.7104	2344064.9018

V		
POINT NUMBER	NORTHING	EASTING
V1	669962.6270	2344401.1443
V2	669952.7631	2344402.7820
V3	669942.8245	2344403.8677
V4	669932.8304	2344404.0920
V5	669922.8572	2344403.4080
V6	669912.9874	2344401.8214
V7	669903.3023	2344399.3454
V8	669893.8820	2344396.0003
V9	669884.8043	2344391.8138
V10	669876.1441	2344386.8205
V11	669867.9730	2344381.0616
V12	669860.3584	2344374.5847
V13	669853.3633	2344367.4433
V14	669846.8384	2344359.8685
V15	669840.9290	2344351.8047
V16	669835.6829	2344343.2944
V17	669831.1337	2344334.3920
V18	669827.3104	2344325.1546
V19	669824.2376	2344315.6413
V20	669821.9349	2344305.9127
V21	669820.4170	2344296.0313
V22	669819.6936	2344286.0602
V23	669819.7694	2344276.0631
V24	669820.6438	2344266.1041
V25	669822.3114	2344256.2468
V26	669824.7384	2344246.5396
V27	669827.4506	2344236.9144
V28	669830.2757	2344227.3218
V29	669833.2136	2344217.7631
V30	669836.2636	2344208.2396
V31	669839.4255	2344198.7527
V32	669842.6988	2344189.3036
V33	669847.9865	2344180.5085
V34	669847.9109	2344193.4990
V35	669848.2084	2344203.4942
V36	669848.8162	2344213.4753
V37	669849.7336	2344223.4327
V38	669850.9597	2344233.3568
V39	669852.4934	2344243.2381
V40	669854.3332	2344253.0670
V41	669856.4773	2344262.8340
V42	669858.9236	2344272.5297
V43	669861.6698	2344282.1448
V44	669864.7133	2344291.6700
V45	669868.0510	2344301.0961
V46	669871.6798	2344310.4140
V47	669875.5963	2344319.6148
V48	669879.9612	2344328.6092
V49	669884.9925	2344337.2485
V50	669890.6630	2344345.4817
V51	669896.9407	2344353.2627
V52	669903.7893	2344360.5462
V53	669911.1696	2344367.2905
V54	669919.0391	2344373.4569
V55	669927.3527	2344379.0099
V56	669936.0629	2344383.9178
V57	669945.1194	2344388.1524
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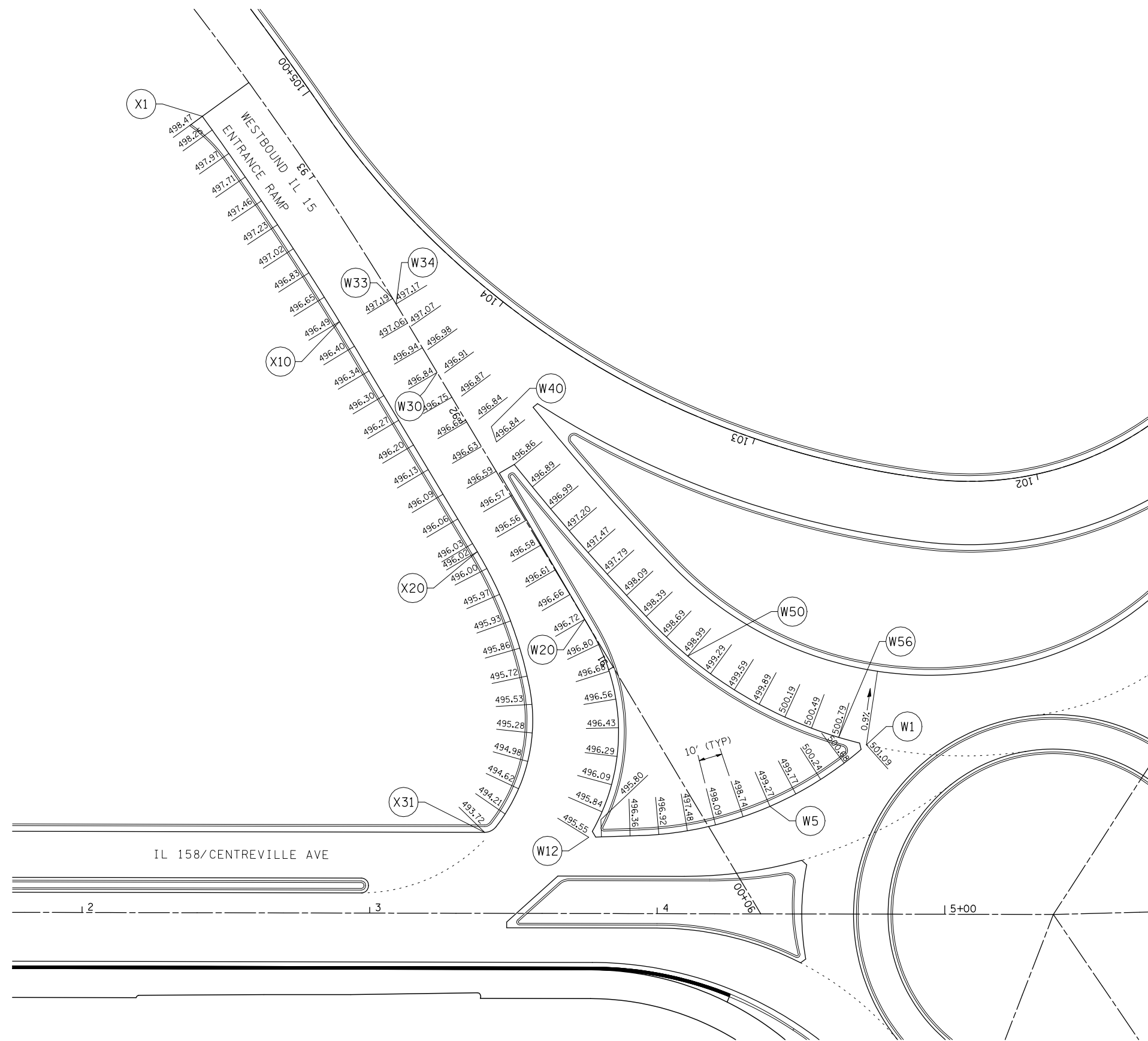
HORNER &  
SHIRIN, INC.  
ENGINEERS

INTERSECTION ELEVATIONS  
NORTHERN ROUNDABOUT

SCALE: SHEET NO. 3 OF 7 SHEETS STA. TO STA.

① F.A.P. RTE 809 / F.A.U. RTE 9251 / F.A.U. RTE 9269

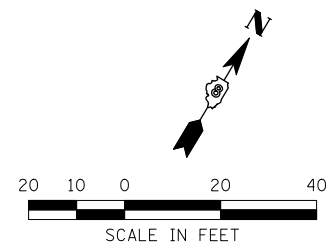
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
①	135-N	ST. CLAIR	206	104
				CONTRACT NO. 76D06
ILLINOIS FED. AID PROJECT				



W		
POINT NUMBER	NORTHING	EASTING
W1	669805.2311	2344339.6582
W2	669795.8129	2344336.3052
W3	669786.6927	2344332.2102
W4	669777.9289	2344327.3996
W5	669769.5776	2344321.9039
W6	669761.6921	2344315.7585
W7	669754.3230	2344309.0025
W8	669747.5174	2344301.6792
W9	669741.3188	2344293.8355
W10	669735.7334	2344285.5426
W11	669730.3041	2344277.1449
W12	669727.9293	2344273.4716
W13	669737.9016	2344272.8531
W14	669747.6843	2344270.8211
W15	669757.0781	2344267.4169
W16	669765.8915	2344262.7101
W17	669773.9450	2344256.7964
W18	669781.0745	2344249.7963
W19	669787.1348	2344241.8526
W20	669792.1303	2344233.1935
W21	669796.9388	2344224.4255
W22	669801.7474	2344215.6575
W23	669806.5559	2344206.8895
W24	669811.3645	2344198.1215
W25	669816.1730	2344189.3535
W26	669820.4225	2344180.2789
W27	669825.1359	2344171.4587
W28	669829.8493	2344162.6385
W29	669834.5627	2344153.8184
W30	669839.2761	2344144.9982
W31	669843.9895	2344136.1780
W32	669848.7171	2344127.3656
W33	669853.3888	2344118.5213
W34	669852.3428	2344120.5151
W35	669848.4670	2344128.9880
W36	669844.4079	2344138.1271
W37	669840.4534	2344147.3120
W38	669836.6042	2344156.5414
W39	669832.8608	2344165.8143
W40	669829.2235	2344175.1293
W41	669825.6979	2344184.4720
W42	669822.2742	2344193.8679
W43	669818.9583	2344203.3021
W44	669815.7504	2344212.7735
W45	669812.6509	2344222.2810
W46	669809.6603	2344231.8232
W47	669806.7789	2344241.3991
W48	669804.0072	2344251.0072
W49	669801.5156	2344260.6902
W50	669799.6635	2344270.5153
W51	669798.4701	2344280.4420
W52	669797.9406	2344290.4261
W53	669798.0774	2344300.4234
W54	669798.8799	2344310.3893
W55	669800.3445	2344320.2796
W56	669802.4647	2344330.0504

X		
POINT NUMBER	NORTHING	EASTING
X1	669873.5633	2344029.168
X2	669871.2572	2344034.547
X3	669867.2516	2344043.709
X4	669863.1643	2344052.836
X5	669858.9957	2344061.926
X6	669854.7462	2344070.978
X7	669850.4159	2344079.992
X8	669846.0054	2344088.966
X9	669841.5149	2344097.901
X10	669836.9447	2344106.796
X11	669832.2954	2344115.649
X12	669827.5724	2344124.464
X13	669822.8649	2344133.286
X14	669818.1574	2344142.109
X15	669813.4499	2344150.932
X16	669808.7425	2344159.754
X17	669804.035	2344168.577
X18	669799.3275	2344177.4
X19	669794.62	2344186.222
X20	669793.0873	2344189.095
X21	669789.7615	2344194.962
X22	669784.3533	2344203.371
X23	669778.397	2344211.401
X24	669771.9189	2344219.017
X25	669764.9479	2344226.184
X26	669757.3759	2344232.711
X27	669748.8645	2344237.938
X28	669739.6038	2344241.681
X29	669729.8505	2344243.835
X30	669719.875	2344244.342
X31	669710.7587	2344241.521

IL 158/CENTREVILLE AVE



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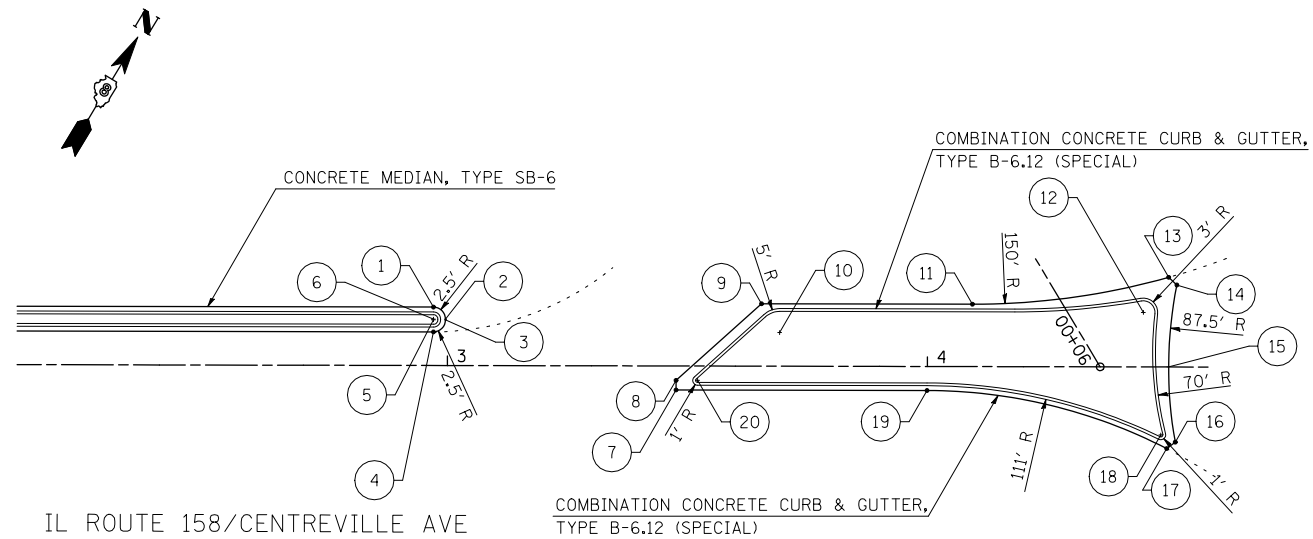
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**



**INTERSECTION ELEVATIONS**  
NORTHERN ROUNDABOUT

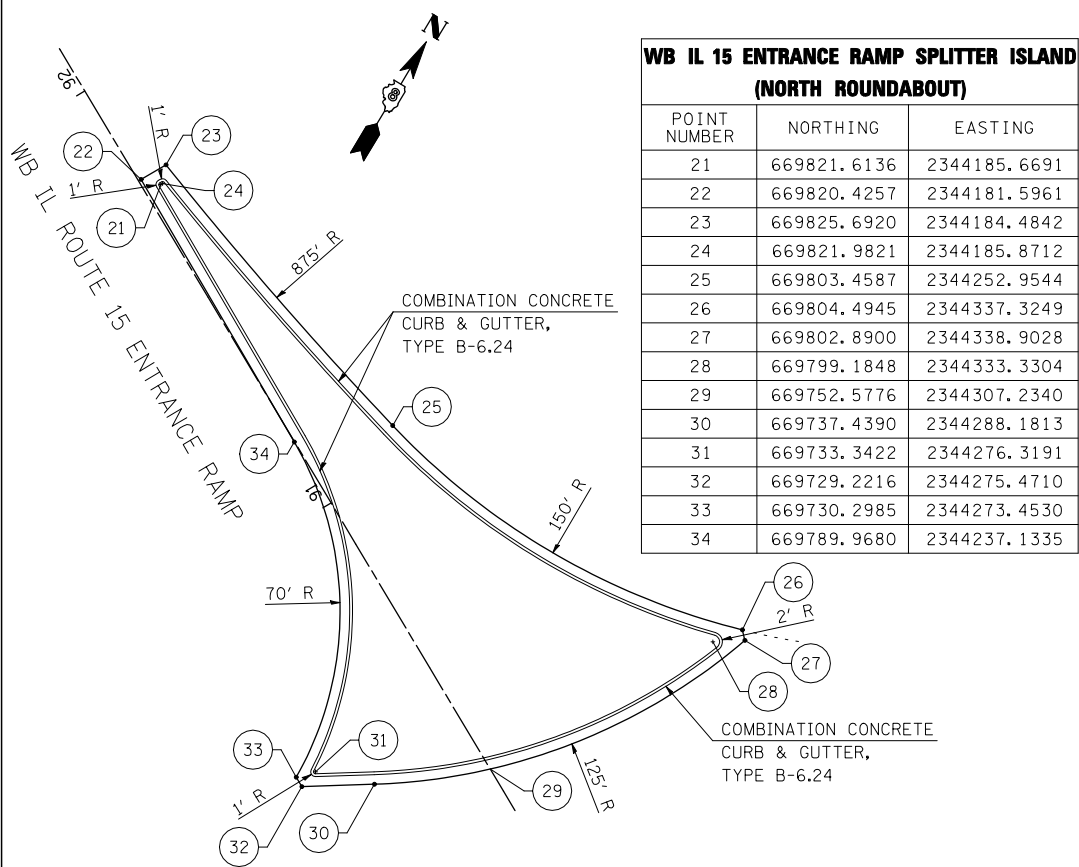
SCALE: SHEET NO. 4 OF 7 SHEETS STA. TO STA.

① F.A.P. RTE 809 / F.A.U. RTE 9251 / F.A.U. RTE 9269				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
①	135-N	ST. CLAIR	206	105
CONTRACT NO. 76D06				
ILLINOIS FED. AID PROJECT				



**IL 158 /CENTREVILLE AVE SPLITTER ISLAND  
(NORTH ROUNDABOUT)**

POINT NUMBER	NORTHING	EASTING
1	669675.0266	2344212.9488
2	669674.1643	2344216.3776
3	669673.9075	2344216.5315
4	669670.5930	2344215.6005
5	669672.7386	2344214.3173
6	669672.8810	2344214.2321
7	669686.2543	2344265.1643
8	669687.9707	2344264.1377
9	669710.8274	2344271.1821
10	669707.6272	2344277.5208
11	669733.3844	2344308.8970
12	669750.2569	2344340.3005
13	669759.2354	2344341.0612
14	669758.7526	2344343.3478
15	669743.2226	2344350.6730
16	669730.5037	2344359.9275
17	669728.4459	2344359.0781
18	669730.2563	2344356.5819
19	669713.1009	2344310.0512
20	669690.2726	2344267.9864

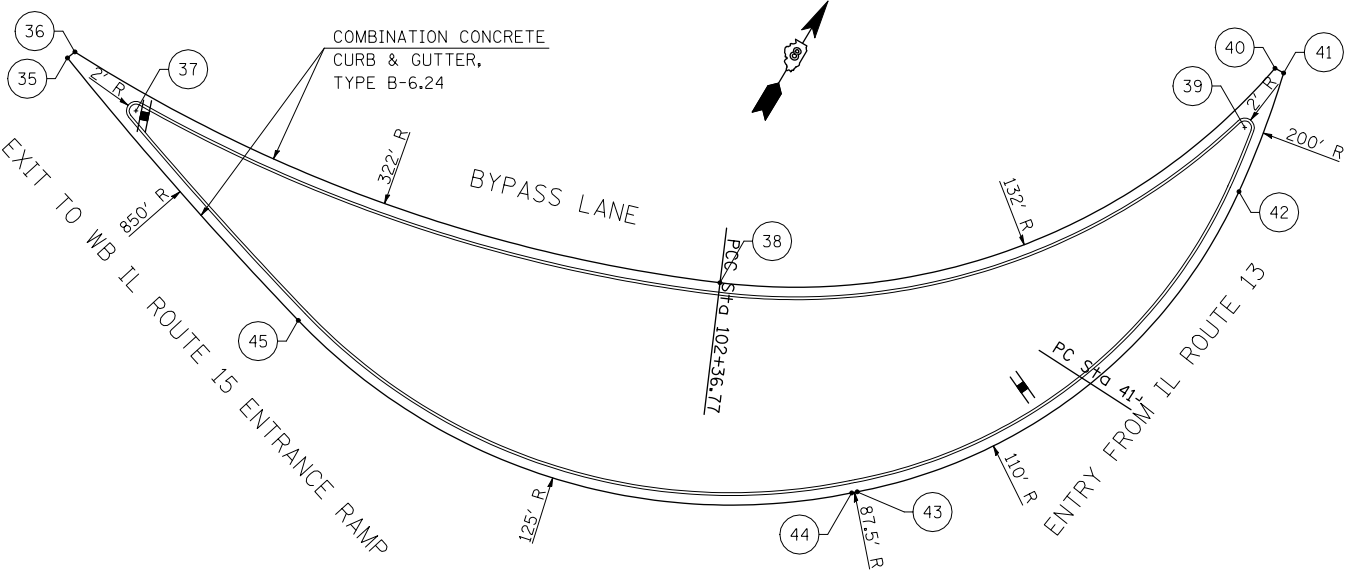


**WB IL 15 ENTRANCE RAMP SPLITTER ISLAND  
(NORTH ROUNDABOUT)**

POINT NUMBER	NORTHING	EASTING
21	669821.6136	2344185.6691
22	669820.4257	2344181.5961
23	669825.6920	2344184.4842
24	669821.9821	2344185.8712
25	669803.4587	2344252.9544
26	669804.4945	2344337.3249
27	669802.8900	2344338.9028
28	669799.1848	2344333.3304
29	669752.5776	2344307.2340
30	669737.4390	2344288.1813
31	669733.3422	2344276.3191
32	669729.2216	2344275.4710
33	669730.2985	2344273.4530
34	669789.9680	2344237.1335

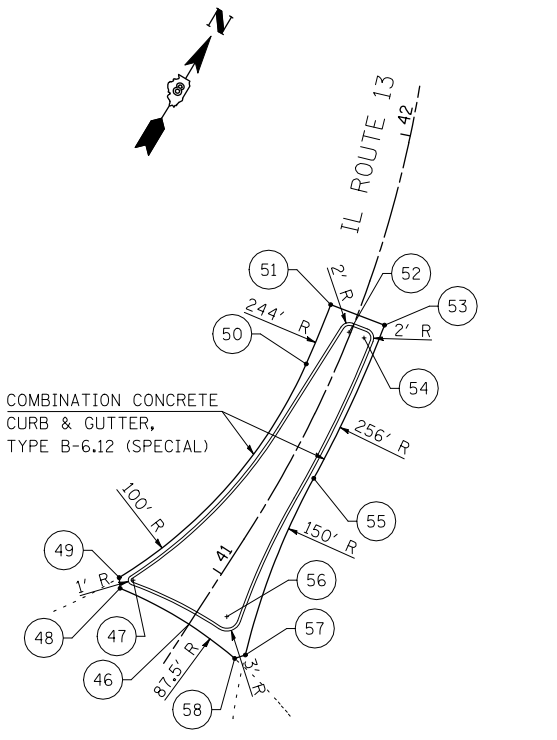
**BYPASS ISLAND  
(NORTH ROUNDABOUT)**

POINT NUMBER	NORTHING	EASTING
35	669846.1086	2344179.8204
36	669847.9865	2344180.5085
37	669843.9962	2344197.7415
38	669875.9802	2344320.4784
39	669959.9939	2344397.5658
40	669973.8393	2344396.5931
41	669973.9194	2344398.6523
42	669947.9466	2344403.3978
43	669853.3623	2344367.4423
44	669852.5733	2344366.5716
45	669824.0073	2344249.2063



**IL 13 SPLITTER ISLAND  
(NORTH ROUNDABOUT)**

POINT NUMBER	NORTHING	EASTING
46	669875.5885	2344428.6426
47	669877.4781	2344413.9385
48	669874.6208	2344412.4781
49	669876.4379	2344411.1731
50	669934.6652	2344421.6491
51	669947.8834	2344419.6556
52	669944.9376	2344425.9018
53	669949.9973	2344431.4679
54	669945.5258	2344429.1883
55	669915.0509	2344435.2701
56	669881.0039	2344434.5994
57	669876.1486	2344442.0141
58	669874.3908	2344440.4741



SCALE IN FEET

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	PLOT DATE = 3/20/2012	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HORNER &  
SHIRIN, INC.  
ENGINEERS**

**INTERSECTION ELEVATIONS  
NORTHERN ROUNDABOUT**

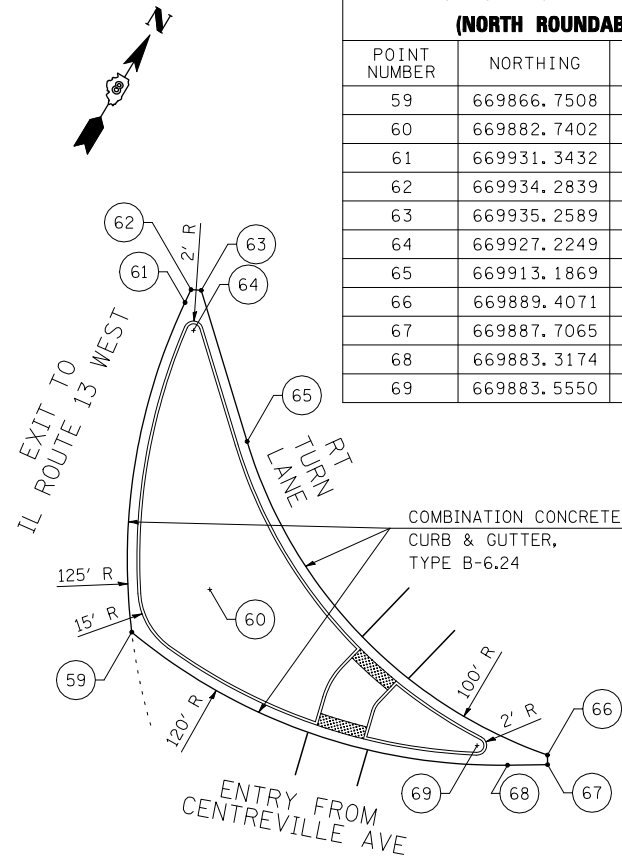
SCALE: SHEET NO. 5 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
①	135-N	ST. CLAIR	206	106

CONTRACT NO. 76D06  
ILLINOIS FED. AID PROJECT

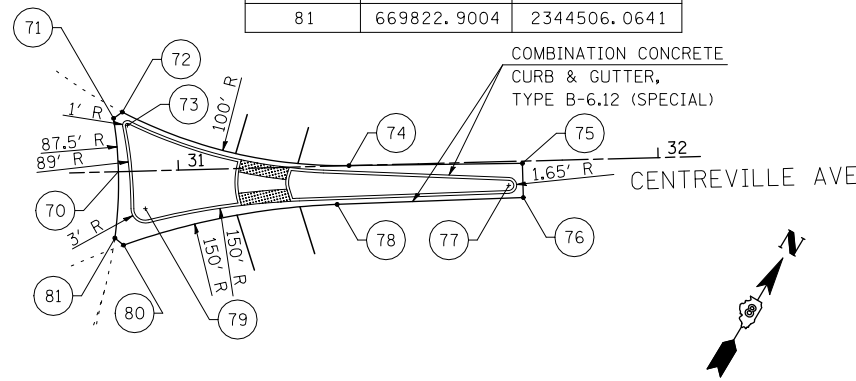
**IL 13 RIGHT TURN LANE ISLAND (NORTH ROUNDABOUT)**

POINT NUMBER	NORTHING	EASTING
59	669866.7508	2344472.0275
60	669882.7402	2344481.3867
61	669931.3432	2344446.1637
62	669934.2839	2344445.8557
63	669935.2589	2344447.7592
64	669927.2249	2344450.6774
65	669913.1869	2344472.1566
66	669889.4071	2344559.4554
67	669887.7065	2344560.5079
68	669883.3174	2344553.4160
69	669883.5550	2344545.8750



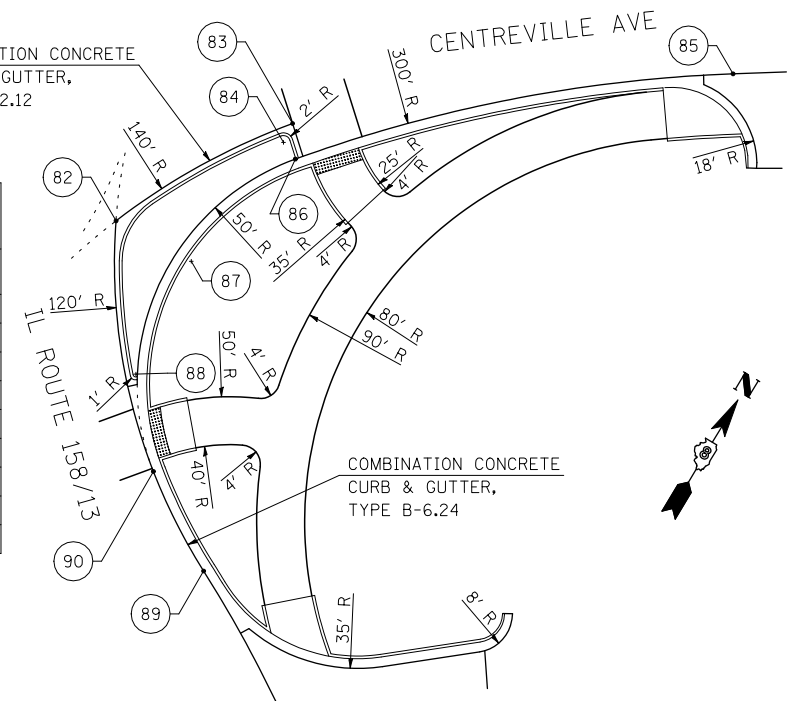
**CENTREVILLE AVE SPLITTER ISLAND (NORTH ROUNDABOUT)**

POINT NUMBER	NORTHING	EASTING
70	669835.1403	2344499.5693
71	669844.1500	2344492.9876
72	669846.2056	2344493.8706
73	669844.3747	2344496.2024
74	669860.9684	2344540.1069
75	669879.9834	2344570.8316
76	669873.9699	2344574.6616
77	669874.5856	2344570.7548
78	669852.7641	2344542.1492
79	669831.4292	2344508.3539
80	669822.5698	2344508.3775
81	669822.9004	2344506.0641



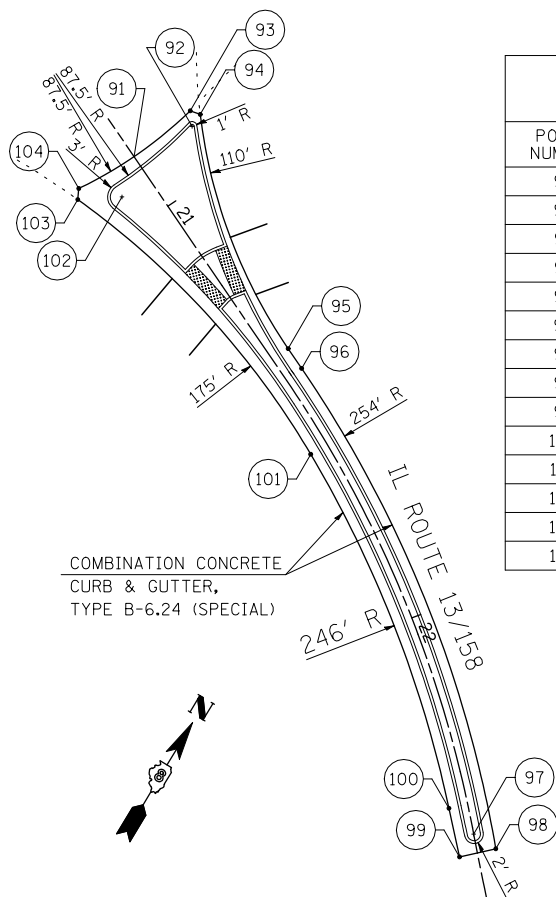
**IL ROUTE 158 TO CENTREVILLE AVE TRUCK APRON (NORTH ROUNDABOUT)**

POINT NUMBER	NORTHING	EASTING
82	669791.7688	2344517.9539
83	669828.1067	2344539.0381
84	669823.7541	2344539.4376
85	669884.2435	2344612.3787
86	669822.0446	2344543.3541
87	669792.6332	2344535.7223
88	669766.5246	2344537.9378
89	669738.6296	2344571.1728
90	669751.0269	2344551.5245



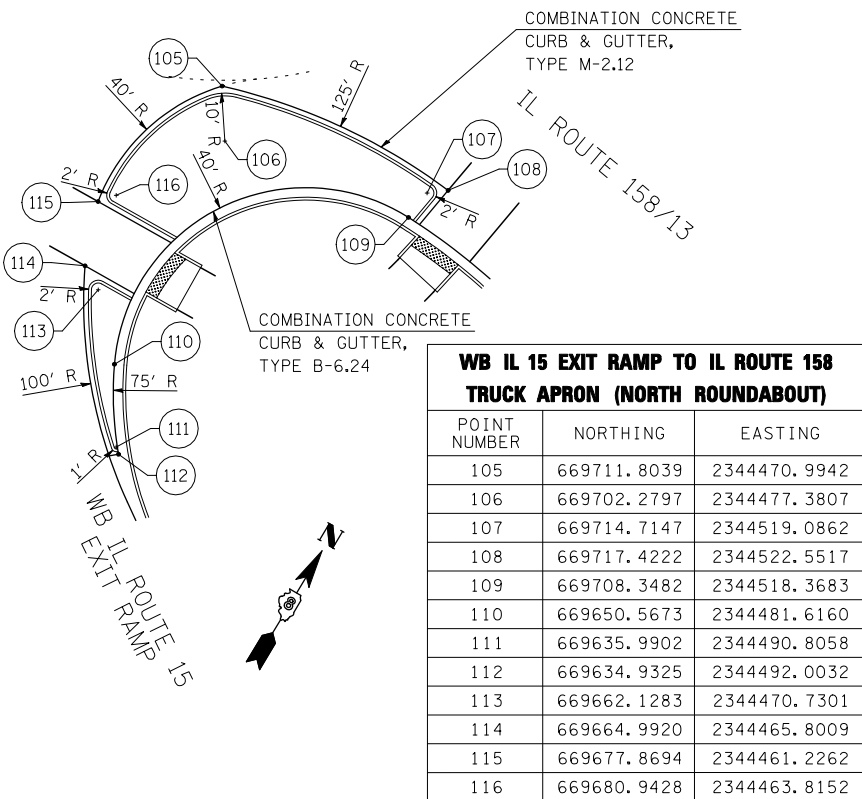
**IL ROUTE 13/158 SPLITTER ISLAND (NORTH ROUNDABOUT)**

POINT NUMBER	NORTHING	EASTING
91	669751.5419	2344505.2471
92	669763.1873	2344512.3694
93	669765.7507	2344510.3549
94	669766.1964	2344512.5360
95	669733.7829	2344553.3834
96	669731.7032	2344557.9005
97	669666.9933	2344638.5976
98	669666.7419	2344644.1314
99	669661.4014	2344638.5285
100	669668.9470	2344631.4070
101	669717.3461	2344568.7333
102	669743.0381	2344507.4117
103	669737.8407	2344499.7982
104	669739.9266	2344498.7881



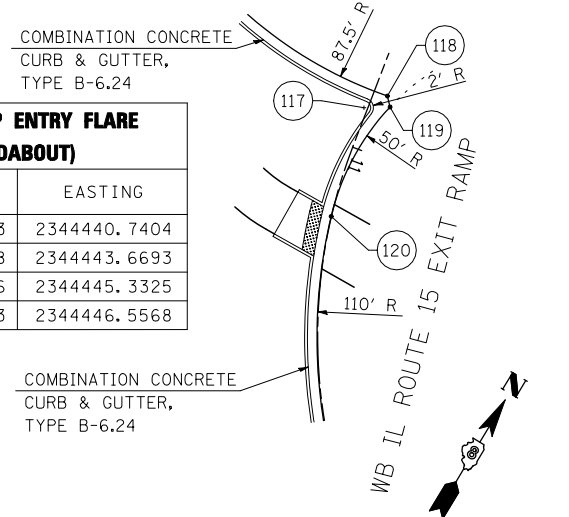
**WB IL 15 EXIT RAMP TO IL ROUTE 158 TRUCK APRON (NORTH ROUNDABOUT)**

POINT NUMBER	NORTHING	EASTING
105	669711.8039	2344470.9942
106	669702.2797	2344477.3807
107	669714.7147	2344519.0862
108	669717.4222	2344522.5517
109	669708.3482	2344518.3683
110	669650.5673	2344481.6160
111	669635.9902	2344490.8058
112	669634.9325	2344492.0032
113	669662.1283	2344470.7301
114	669664.9920	2344465.8009
115	669677.8694	2344461.2262
116	669680.9428	2344463.8152



**WB IL 15 EXIT RAMP ENTRY FLARE (NORTH ROUNDABOUT)**

POINT NUMBER	NORTHING	EASTING
117	669697.8693	2344440.7404
118	669702.4868	2344443.6693
119	669700.8006	2344445.3325
120	669674.9533	2344446.5568



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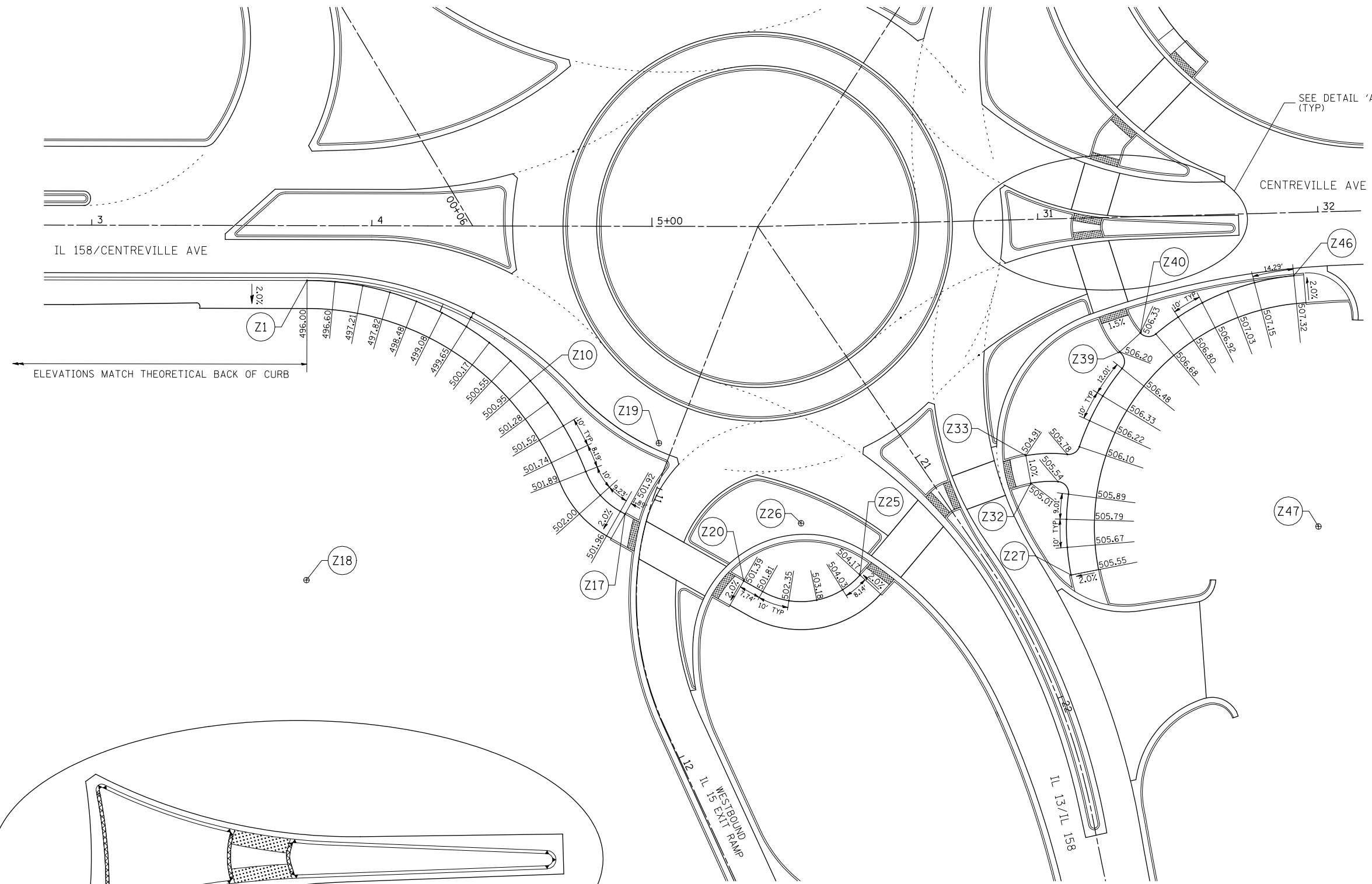
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HORNER &  
SHIRIN, INC  
ENGINEERS**

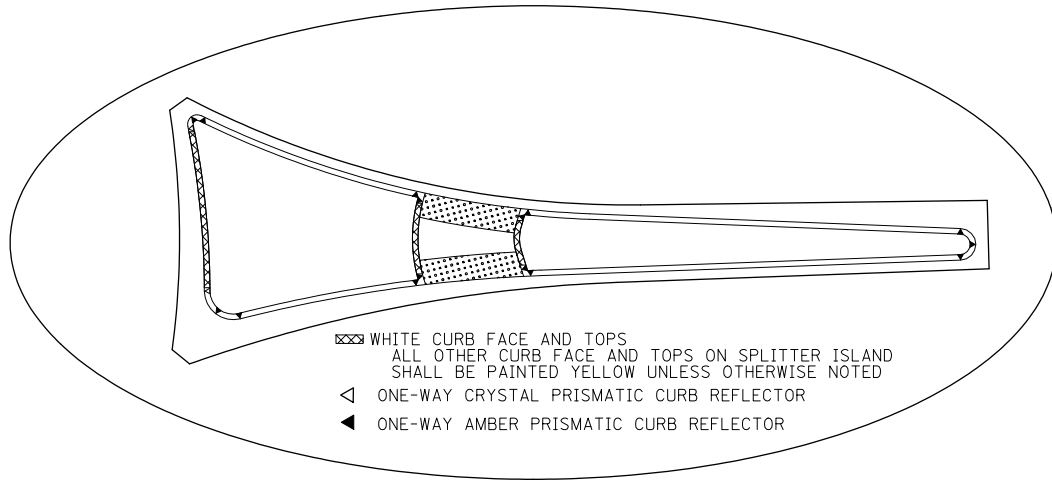
**INTERSECTION ELEVATIONS  
NORTHERN ROUNDABOUT**

SCALE: SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
①	135-N	ST. CLAIR	206	107
CONTRACT NO. 76D06				
ILLINOIS FED. AID PROJECT				



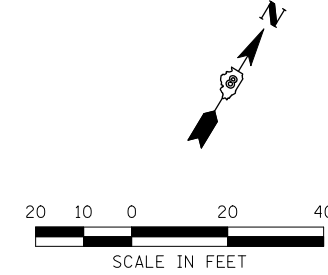
ELEVATIONS MATCH THEORETICAL BACK OF CURB



- ▨ WHITE CURB FACE AND TOPS  
ALL OTHER CURB FACE AND TOPS ON SPLITTER ISLAND  
SHALL BE PAINTED YELLOW UNLESS OTHERWISE NOTED
- ◁ ONE-WAY CRYSTAL PRISMATIC CURB REFLECTOR
- ◄ ONE-WAY AMBER PRISMATIC CURB REFLECTOR

DETAIL 'A'

Z		
POINT NUMBER	NORTHING	EASTING
Z1	669688.7550	2344297.7560
Z2	669693.4797	2344306.5653
Z3	669697.3617	2344315.7771
Z4	669700.3671	2344325.3110
Z5	669702.4696	2344335.0838
Z6	669703.6510	2344345.0101
Z7	669703.9008	2344355.0033
Z8	669703.2170	2344364.9763
Z9	669701.6055	2344374.8419
Z10	669699.0803	2344384.5140
Z11	669695.6635	2344393.9083
Z12	669691.3850	2344402.9428
Z13	669686.2820	2344411.5385
Z14	669681.5205	2344418.1976
Z15	669676.9234	2344427.0185
Z16	669675.6683	2344436.1239
Z17	669675.7211	2344438.0142
Z18	669596.9261	2344352.6783
Z19	669703.6574	2344435.3428
Z20	669677.0783	2344486.6522
Z21	669677.2943	2344494.3918
Z22	669679.3334	2344504.1275
Z23	669684.6475	2344512.5359
Z24	669692.5658	2344518.5560
Z25	669700.2450	2344521.1596
Z26	669705.2834	2344493.6108
Z27	669739.0828	2344585.7726
Z28	669746.8580	2344579.4921
Z29	669755.2816	2344574.1125
Z30	669763.3392	2344570.0928
Z31	669765.2882	2344564.5919
Z32	669759.8070	2344556.5613
Z33	669767.3200	2344549.9618
Z34	669775.3453	2344562.4292
Z35	669779.8625	2344564.6910
Z36	669789.7238	2344563.0623
Z37	669799.7048	2344562.5371
Z38	669811.6784	2344563.3732
Z39	669816.3290	2344559.5856
Z40	669825.9176	2344562.4243
Z41	669828.4630	2344567.3460
Z42	669837.7301	2344571.0899
Z43	669846.5250	2344575.8382
Z44	669854.7392	2344581.5325
Z45	669862.2713	2344588.1025
Z46	669871.6685	2344598.8477
Z47	669799.4364	2344652.5367



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



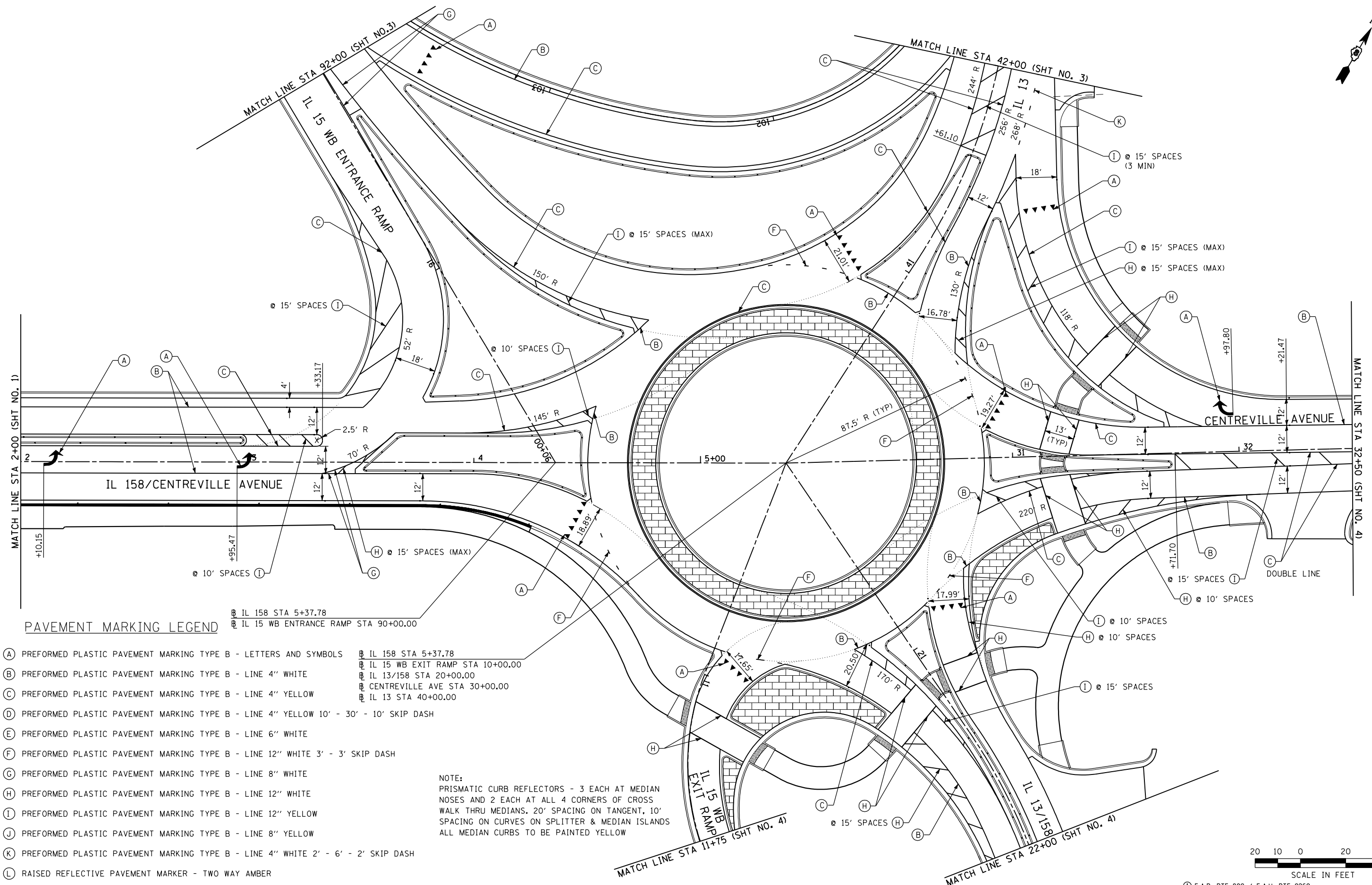
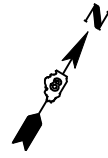
**SIDEWALK ELEVATIONS**  
NORTHERN ROUNDABOUT

SCALE: SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
①	135-N	ST. CLAIR	206	108
CONTRACT NO. 76D06				
ILLINOIS FED. AID PROJECT				







**PAVEMENT MARKING LEGEND**

- (A) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LETTERS AND SYMBOLS
- (B) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 4" WHITE
- (C) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 4" YELLOW
- (D) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 4" YELLOW 10' - 30' - 10' SKIP DASH
- (E) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 6" WHITE
- (F) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 12" WHITE 3' - 3' SKIP DASH
- (G) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 8" WHITE
- (H) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 12" WHITE
- (I) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 12" YELLOW
- (J) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 8" YELLOW
- (K) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 4" WHITE 2' - 6' - 2' SKIP DASH
- (L) RAISED REFLECTIVE PAVEMENT MARKER - TWO WAY AMBER

NOTE:  
 PRISMATIC CURB REFLECTORS - 3 EACH AT MEDIAN NOSES AND 2 EACH AT ALL 4 CORNERS OF CROSS WALK THRU MEDIANS. 20' SPACING ON TANGENT, 10' SPACING ON CURVES ON SPLITTER & MEDIAN ISLANDS ALL MEDIAN CURBS TO BE PAINTED YELLOW



FILE NAME = ...\\110-D876D06-Sh1-PMK-002.dgn

USER NAME = CFC..	DESIGNED -	REVISED -
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PLOT DATE = 3/20/2012	CHECKED -	REVISED -
	DATE -	REVISED -

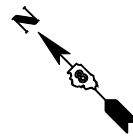
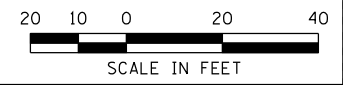
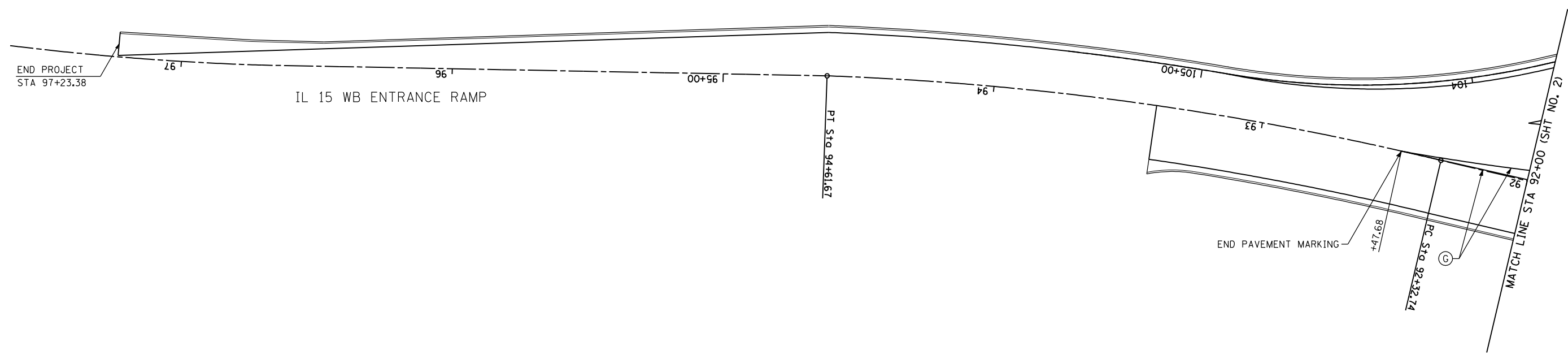
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**HORNER &  
 SHIRIN, INC.  
 ENGINEERS**

**PAVEMENT MARKING DETAILS**  
 IL 158 / CENTERVILLE AVENUE

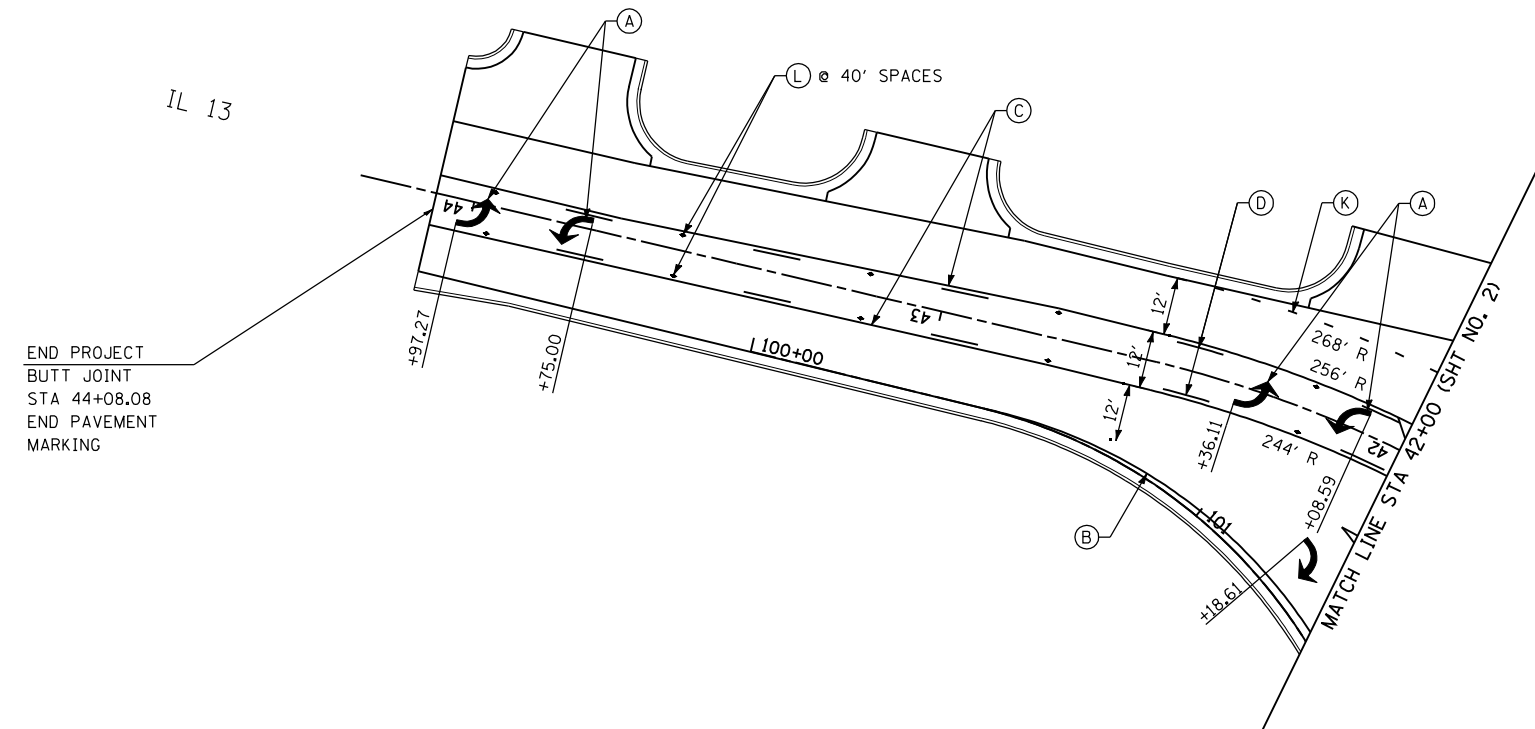
SCALE: 1" = 20' SHEET NO. 2 OF 4 SHEETS STA. 2+00.00 TO STA. 32+50.00

F.A. RTE. = ①	SECTION = 135-N	COUNTY = ST. CLAIR	TOTAL SHEETS = 206	SHEET NO. = 110
CONTRACT NO. D7600			ILLINOIS FED. AID PROJECT	

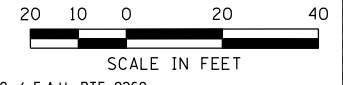


**PAVEMENT MARKING LEGEND**

- (A) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LETTERS AND SYMBOLS
- (B) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 4" WHITE
- (C) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 4" YELLOW
- (D) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 4" YELLOW 10' - 30' - 10' SKIP DASH
- (E) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 6" WHITE
- (F) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 12" WHITE 3' - 3' SKIP DASH
- (G) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 8" WHITE
- (H) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 12" WHITE
- (I) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 12" YELLOW
- (J) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 8" YELLOW
- (K) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 4" WHITE 2' - 6' - 2' SKIP DASH
- (L) RAISED REFLECTIVE PAVEMENT MARKER - TWO WAY AMBER



NOTE:  
 PRISMATIC CURB REFLECTORS - 3 EACH AT MEDIAN NOSES AND 2 EACH AT ALL 4 CORNERS OF CROSS WALK THRU MEDIANS. 20' SPACING ON TANGENT, 10' SPACING ON CURVES ON SPLITTER & MEDIAN ISLANDS ALL MEDIAN CURBS TO BE PAINTED YELLOW



FILE NAME = ...\\111-0876D06-Sht-PMK-003.dgn	USER NAME = CFC...	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -
	PLOT SCALE = 40.0000' / IN.		
	PLOT DATE = 3/20/2012		

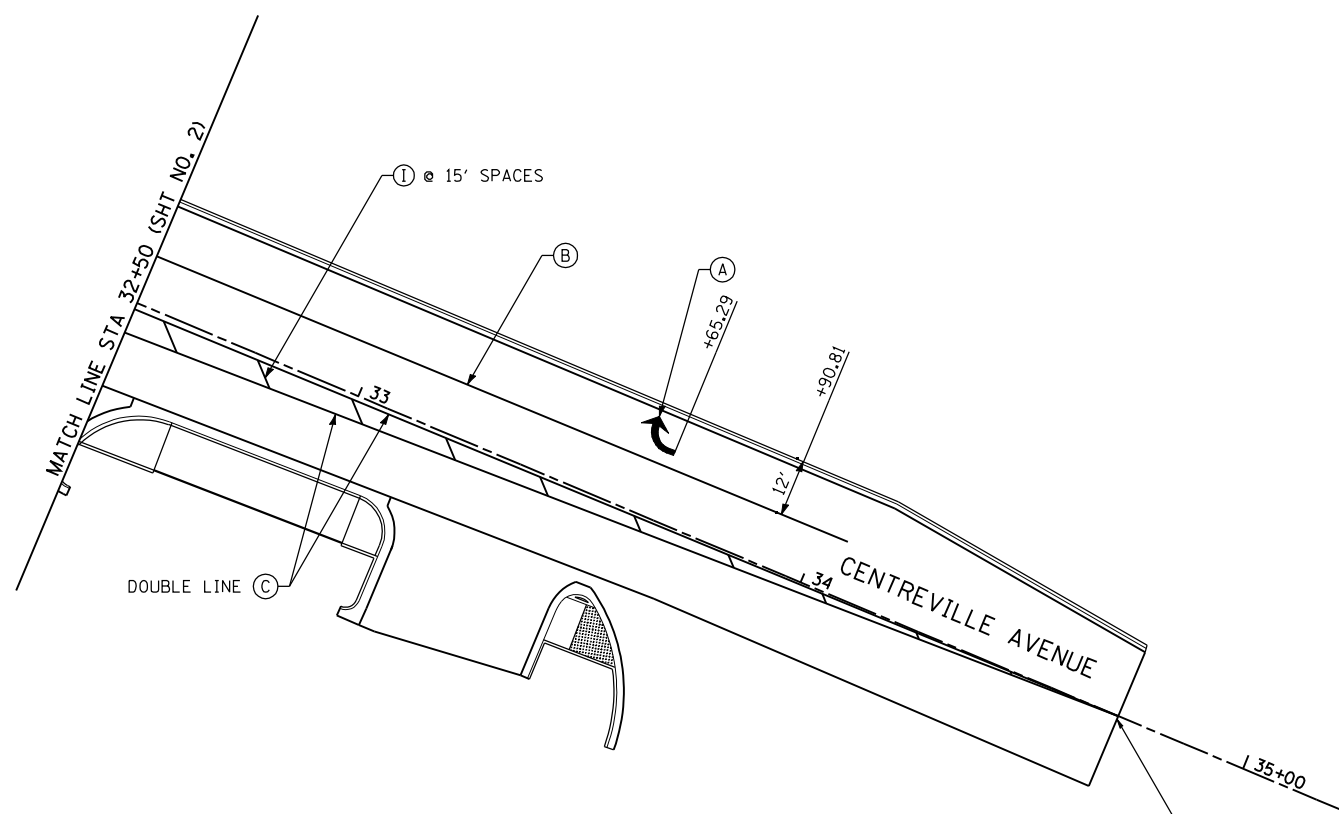
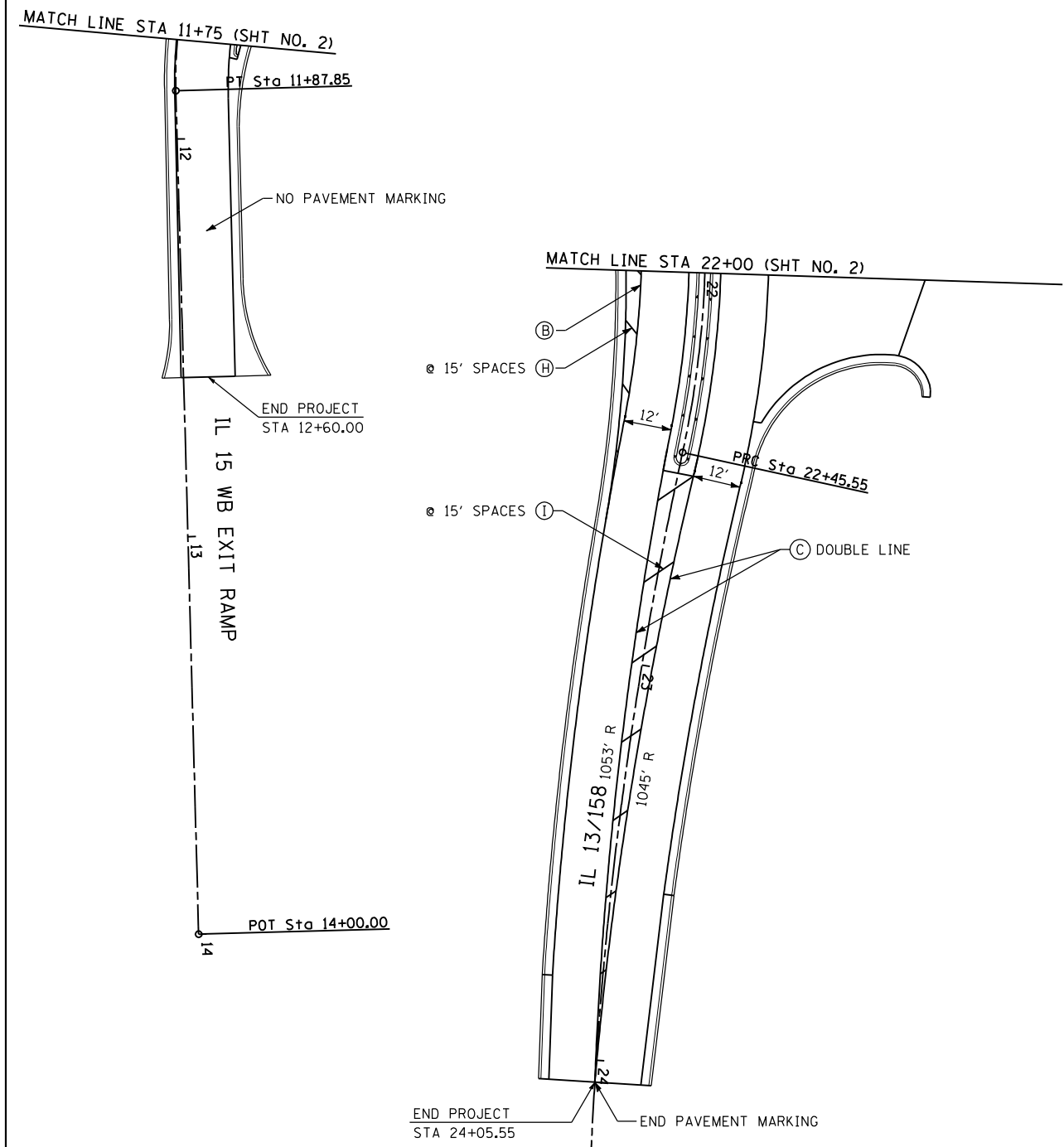
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



**PAVEMENT MARKING DETAILS**  
 IL 15 WESTBOUND ENTRANCE RAMP & IL 13 WEST LEG

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
①	135-N	ST. CLAIR	206	111
CONTRACT NO. 76D06				
ILLINOIS FED. AID PROJECT				

SCALE: 1" = 20' SHEET NO. 3 OF 4 SHEETS STA. TO STA.

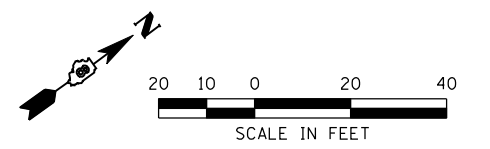


END PROJECT  
STA 34+71.81  
END PAVEMENT  
MARKING

**PAVEMENT MARKING LEGEND**

- (A) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LETTERS AND SYMBOLS
- (B) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 4" WHITE
- (C) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 4" YELLOW
- (D) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 4" YELLOW 10' - 30' - 10' SKIP DASH
- (E) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 6" WHITE
- (F) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 12" WHITE 3' - 3' SKIP DASH
- (G) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 8" WHITE
- (H) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 12" WHITE
- (I) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 12" YELLOW
- (J) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 8" YELLOW
- (K) PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 4" WHITE 2' - 6' - 2' SKIP DASH
- (L) RAISED REFLECTIVE PAVEMENT MARKER - TWO WAY AMBER

NOTE:  
PRISMATIC CURB REFLECTORS - 3 EACH AT MEDIAN  
NOSES AND 2 EACH AT ALL 4 CORNERS OF CROSS  
WALK THRU MEDIANS. 20' SPACING ON TANGENT, 10'  
SPACING ON CURVES ON SPLITTER & MEDIAN ISLANDS  
ALL MEDIAN CURBS TO BE PAINTED YELLOW



FILE NAME =	USER NAME = CFC...	DESIGNED -	REVISED -
...\\112-D876D06-Sh1-PMK-004.dgn		DRAWN -	REVISED -
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	PLOT DATE = 3/20/2012	DATE -	REVISED -

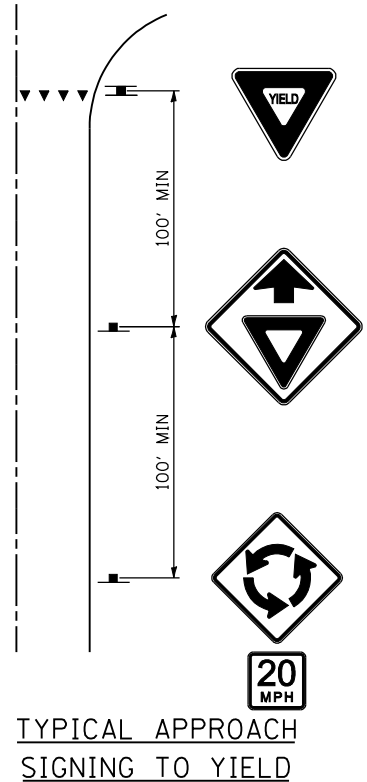
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HORNER &  
SHIRIN, INC.  
ENGINEERS**

**PAVEMENT MARKING DETAILS**  
IL 15 WESTBOUND EXIT RAMP, IL 13 EAST LEG  
& IL 158 / CENTREVILLE AVENUE

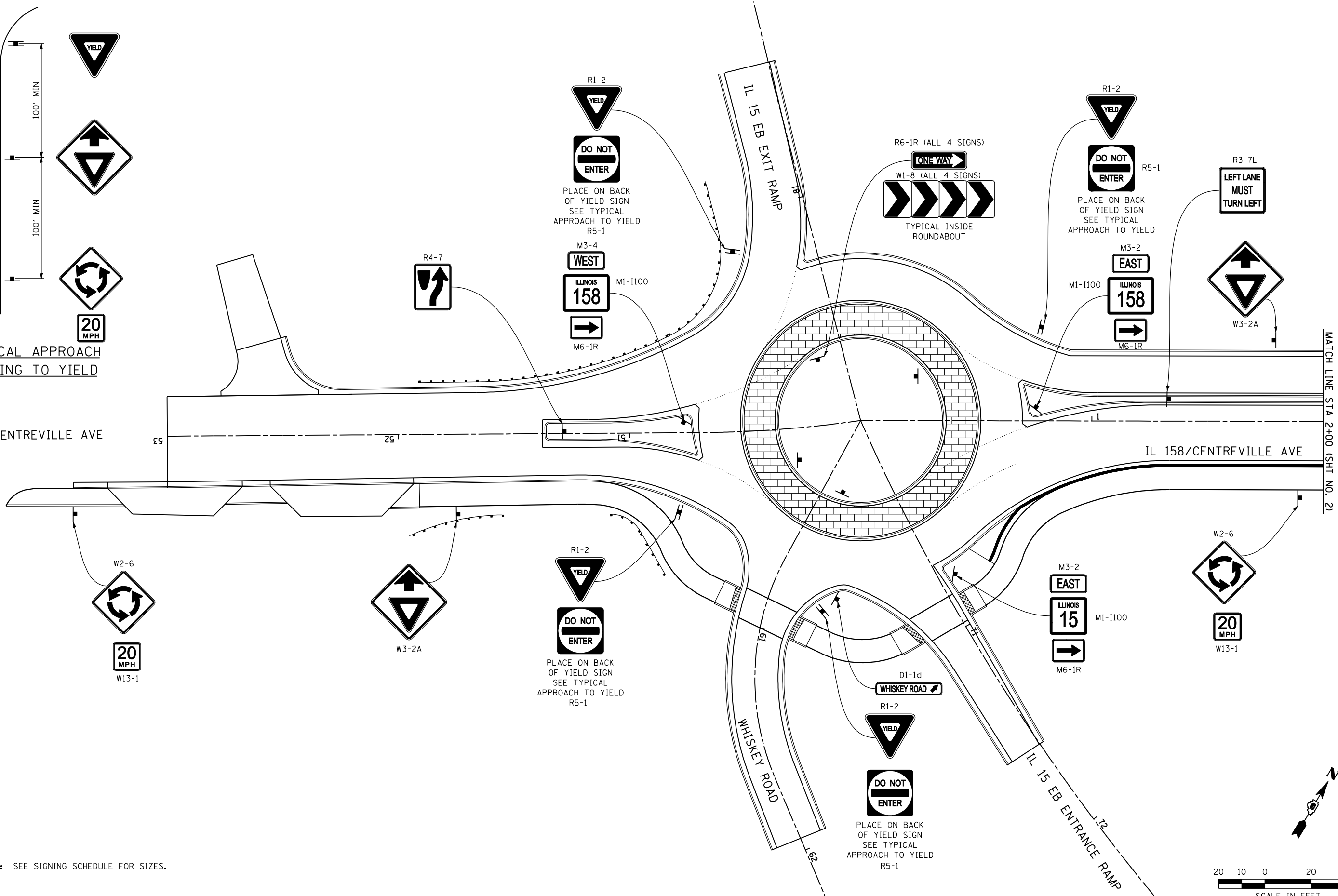
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
①	135-N	ST. CLAIR	206	112
CONTRACT NO. 76D06			ILLINOIS FED. AID PROJECT	

SCALE: 1" = 20' SHEET NO. 4 OF 4 SHEETS STA. TO STA.



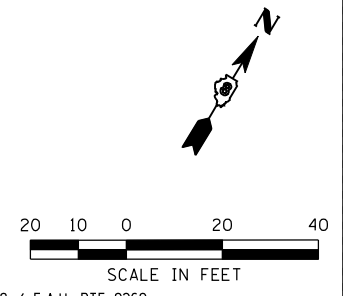
TYPICAL APPROACH  
SIGNING TO YIELD

IL 158/CENTREVILLE AVE

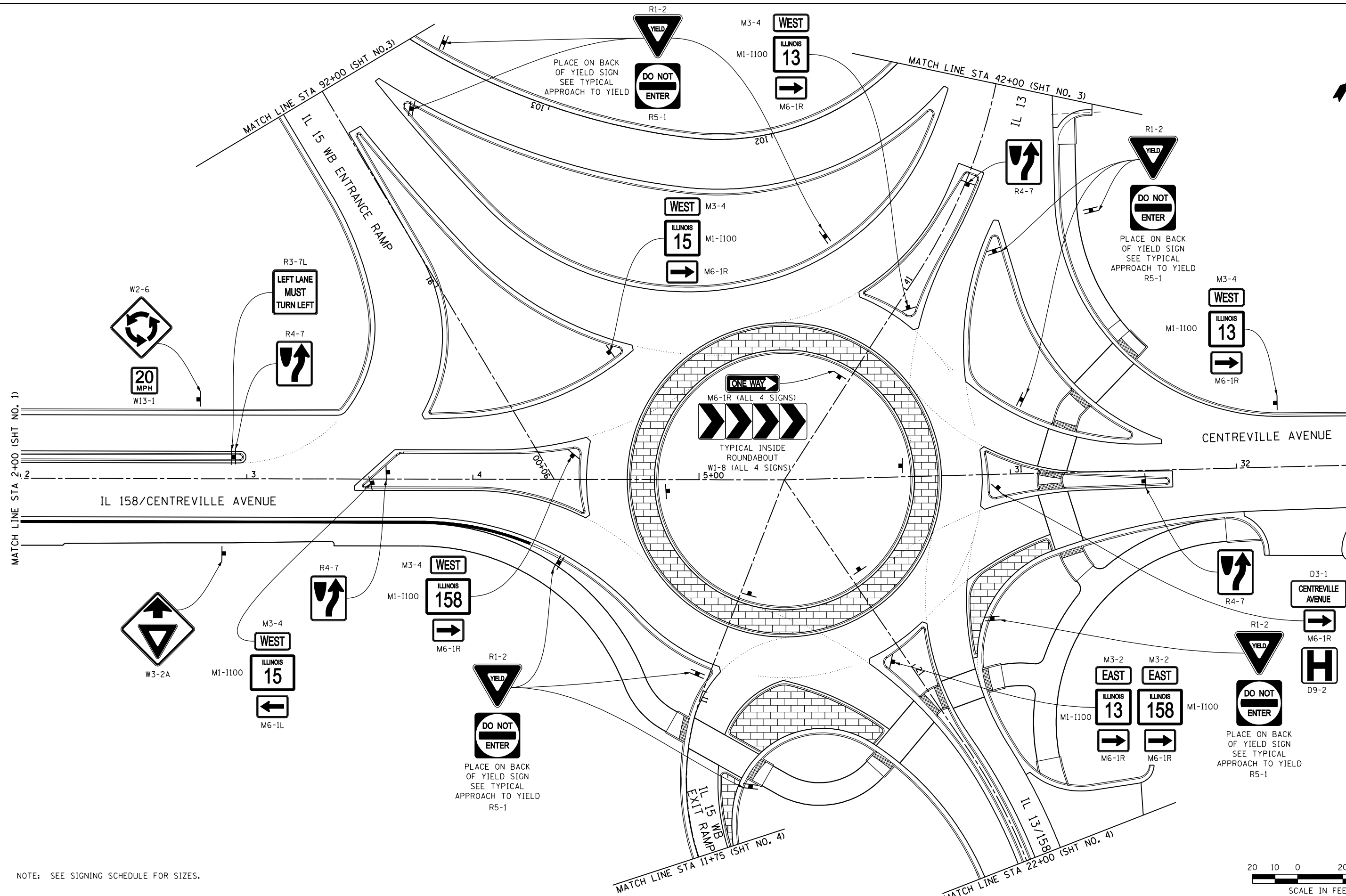


MATCH LINE STA 2+00 (SHT. NO. 2)

NOTE: SEE SIGNING SCHEDULE FOR SIZES.



FILE NAME = ...\\113-0876D06-Sht-Sign-001.dgn	USER NAME = CFC...	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>HORNER &amp; SHIRIN, INC. ENGINEERS</b>	<b>SIGNING DETAILS</b> IL 158 / CENTREVILLE AVENUE	F.A. RTE. -	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -				135-N	ST. CLAIR	206	113	
		CHECKED -	REVISED -				CONTRACT NO. 76D06				
		DATE -	REVISED -				ILLINOIS FED. AID PROJECT				
				SCALE: 1" = 20'		SHEET NO. 1 OF 4 SHEETS		STA. 52+30.06 TO STA. 2+00.00			



NOTE: SEE SIGNING SCHEDULE FOR SIZES.



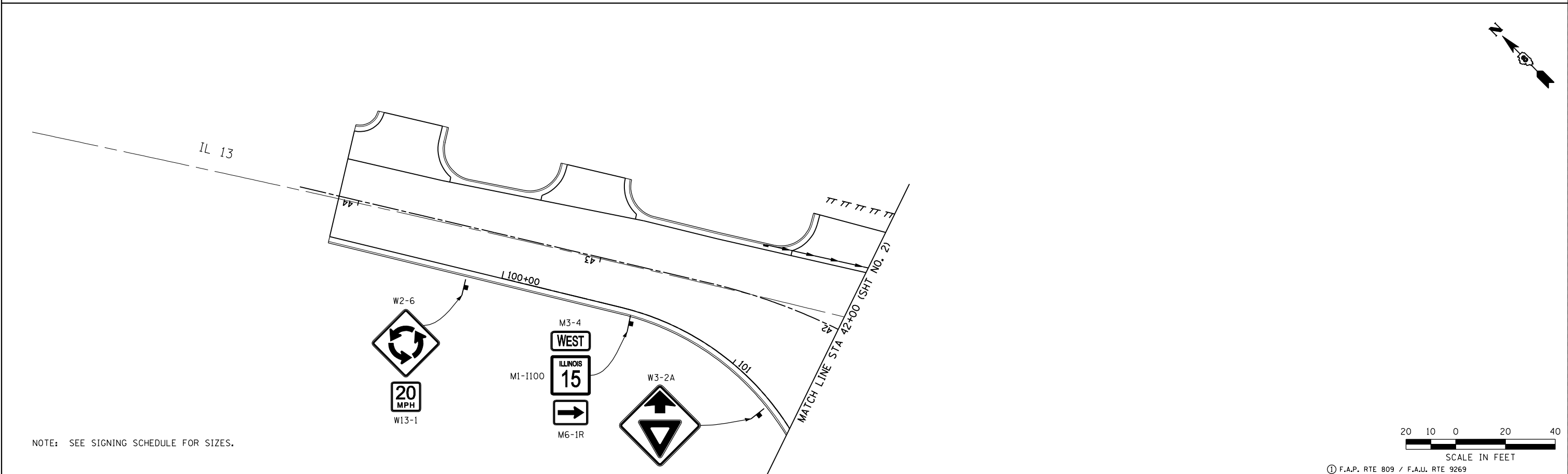
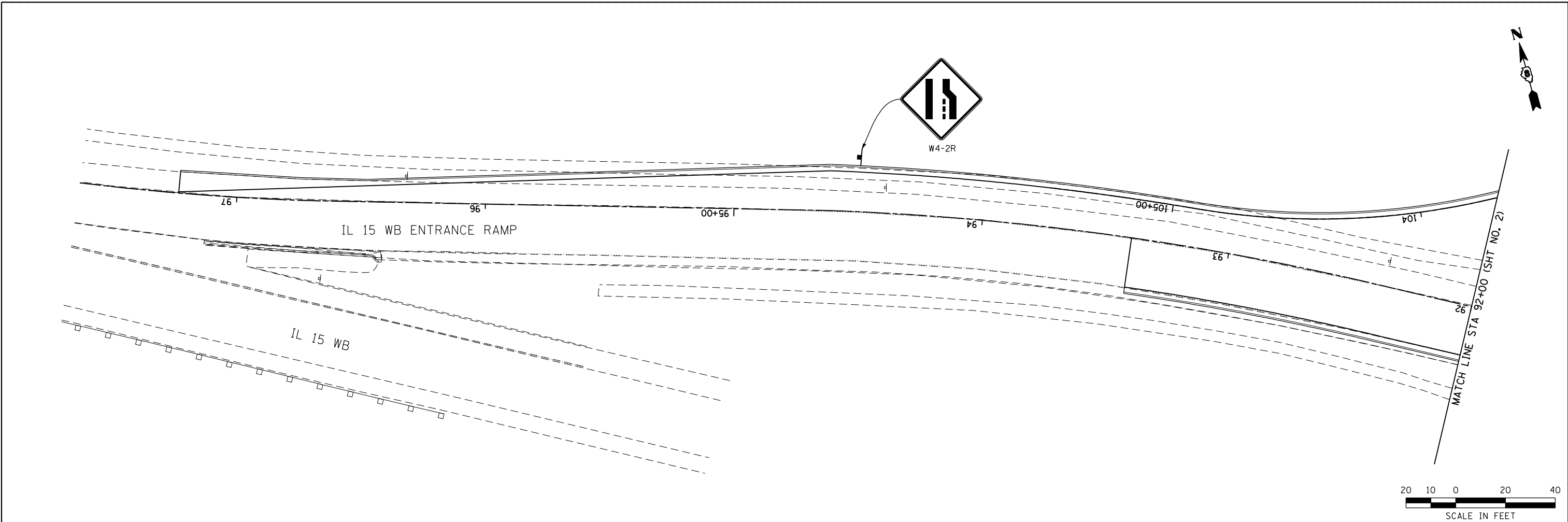
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		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**



**SIGNING DETAILS**  
IL 158 / CENTREVILLE AVENUE  
SCALE: 1" = 20'  
SHEET NO. 2 OF 4 SHEETS  
STA. 2+00.00 TO STA. 32+50.00

① F.A.P. RTE 809 / F.A.U. RTE 9269			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
①	135-N	ST. CLAIR	206
CONTRACT NO. D76DO			SHEET NO. 114
ILLINOIS FED. AID PROJECT			



NOTE: SEE SIGNING SCHEDULE FOR SIZES.

FILE NAME = ...\\115-D876D06-Sht-Sign-003.dgn	USER NAME = CFC..	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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	PLOT DATE = 3/19/2012	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HORNER &  
SHIRIN, INC.  
ENGINEERS**

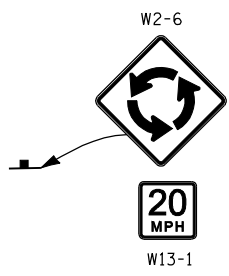
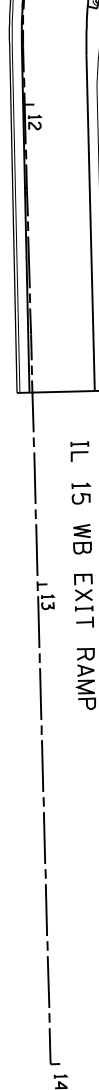
SCALE: 1" = 20'

**SIGNING DETAILS**  
IL 15 WESTBOUND ENTRANCE RAMP & IL 13 WEST LEG  
SHEET NO. 3 OF 4 SHEETS STA. TO STA.

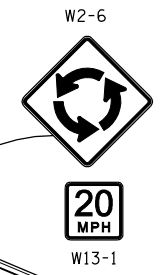
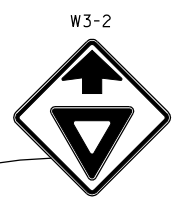
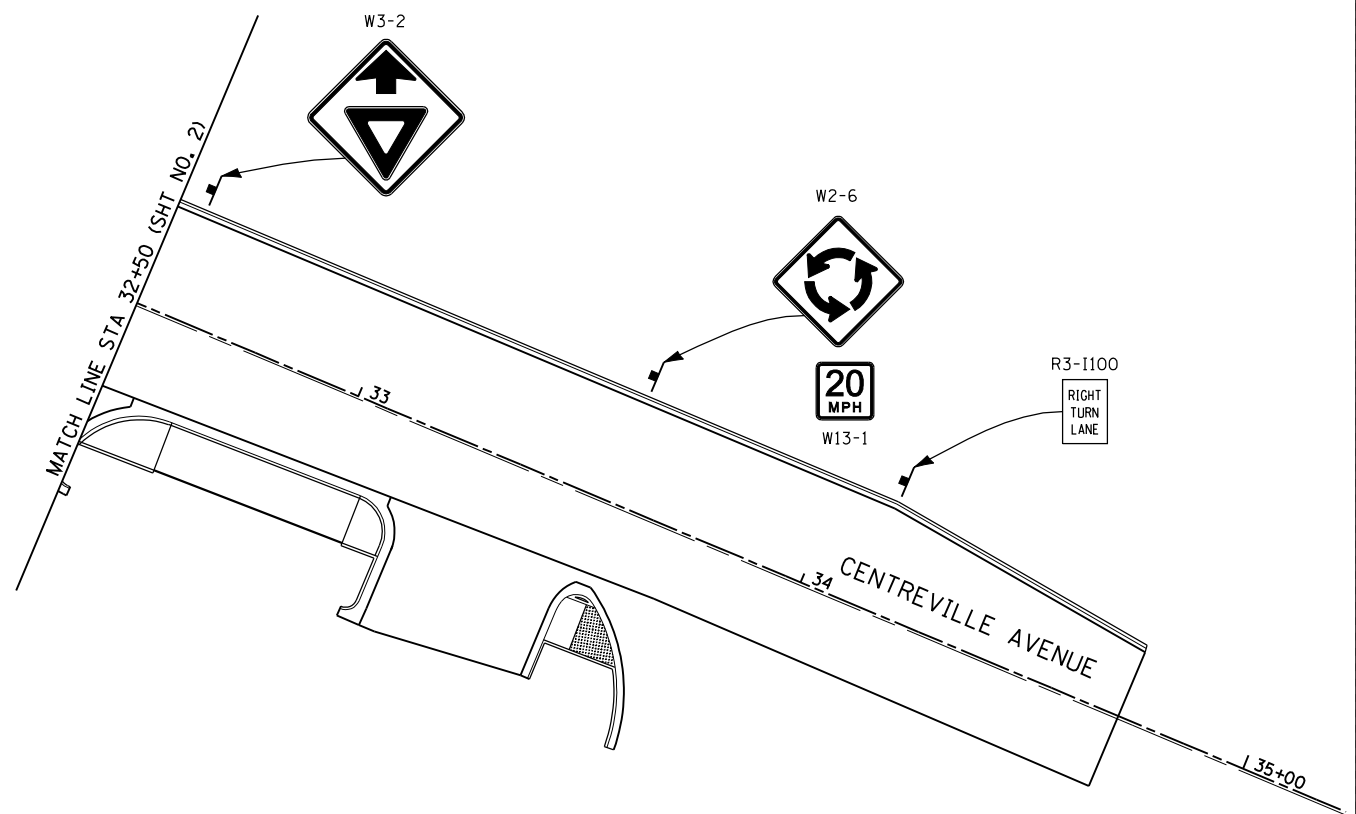
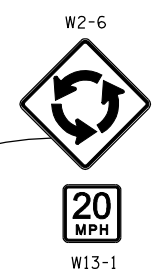
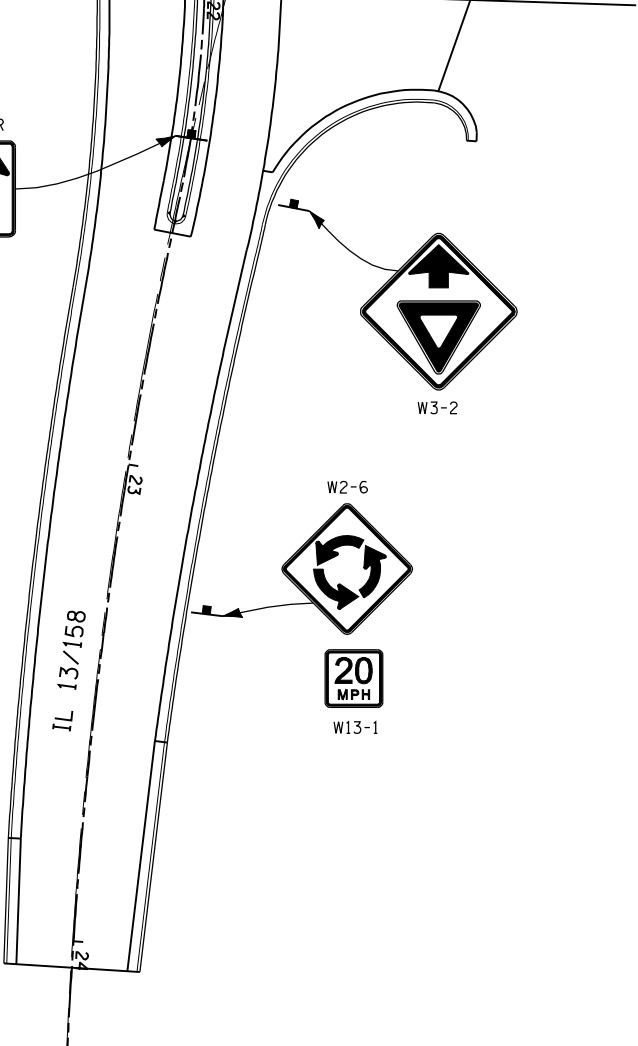
① F.A.P. RTE 809 / F.A.U. RTE 9269

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
①	135-N	ST. CLAIR	206	115
CONTRACT NO. 76D06				
ILLINOIS FED. AID PROJECT				

MATCH LINE STA 11+75 (SHT NO. 2)

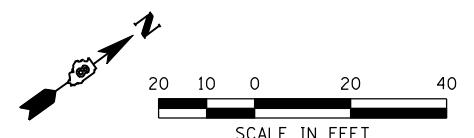


MATCH LINE STA 22+00 (SHT NO. 2)



R3-1100  
RIGHT TURN LANE

NOTE: SEE SIGNING SCHEDULE FOR SIZES.



FILE NAME = ...\\116-D876D06-Sht-Sign-004.dgn	USER NAME = CFC...	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/19/2012	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

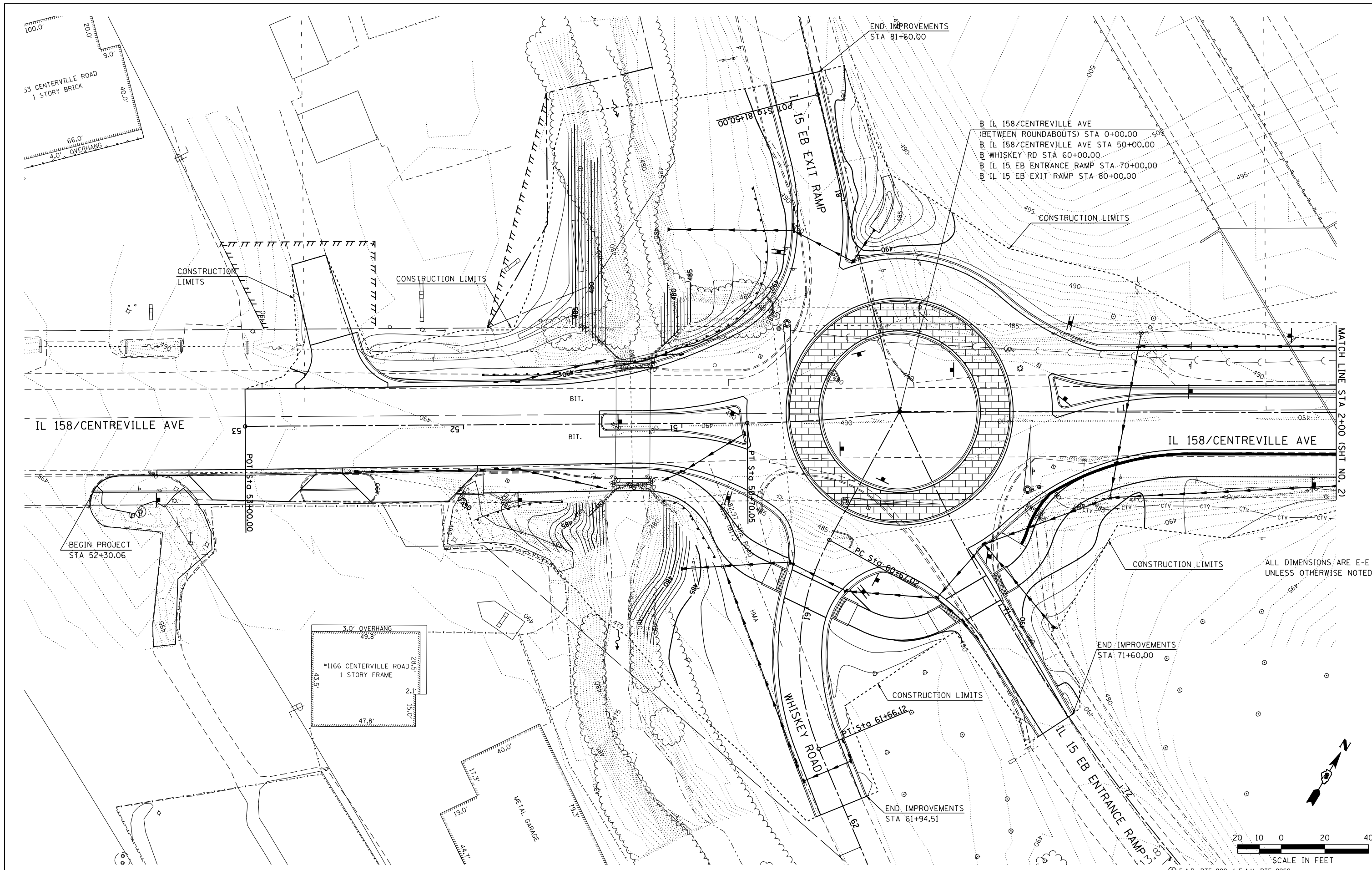
**HORNER &  
SHIRIN, INC.  
ENGINEERS**

**SIGNING DETAILS**  
IL 15 WESTBOUND EXIT RAMP, IL 13 EAST LEG  
& IL 158 / CENTREVILLE AVENUE

① F.A.P. RTE 809 / F.A.U. RTE 9269			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
①	135-N	ST. CLAIR	206
			SHEET NO. 116
CONTRACT NO. 76D06			
ILLINOIS FED. AID PROJECT			

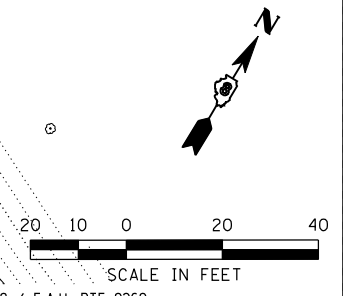
SCALE: 1" = 20' SHEET NO. 4 OF 4 SHEETS STA. TO STA.





- IL 158/CENTREVILLE AVE (BETWEEN ROUNDABOUTS) STA 0+00.00
- IL 158/CENTREVILLE AVE STA 50+00.00
- WHISKEY RD STA 60+00.00
- IL 15 EB ENTRANCE RAMP STA 70+00.00
- IL 15 EB EXIT RAMP STA 80+00.00

ALL DIMENSIONS ARE E-E UNLESS OTHERWISE NOTED



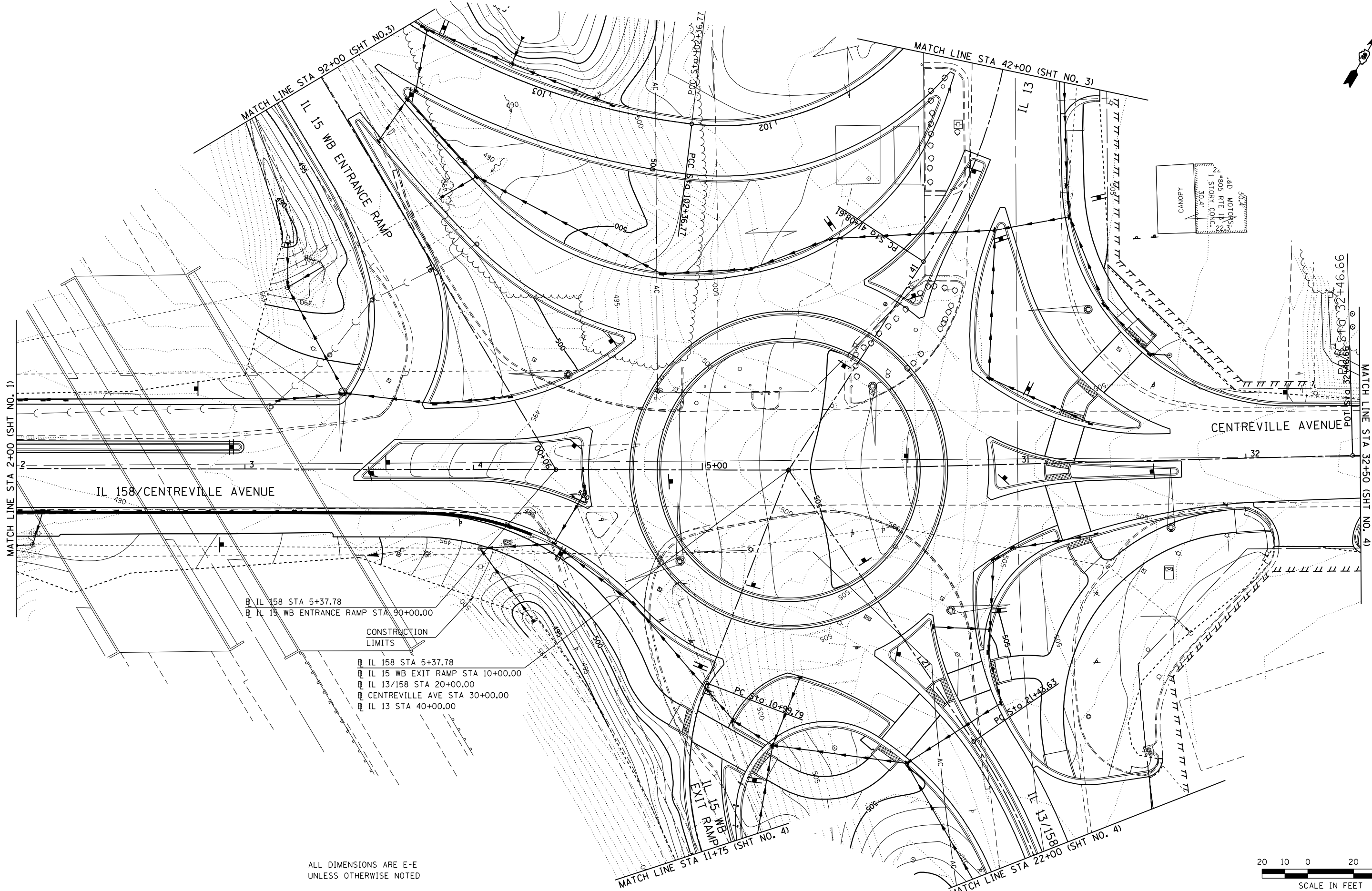
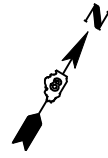
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		DRAWN -	REVISED -
	PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/19/2012	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



**GRADING DETAILS**  
IL 158 / CENTREVILLE AVENUE  
SCALE: 1" = 20'  
SHEET NO. 1 OF 4 SHEETS  
STA. 52+30.06 TO STA. 2+00.00

F.A. RTE. ①	SECTION 135-N	COUNTY ST. CLAIR	TOTAL SHEETS 206	SHEET NO. 117
CONTRACT NO. 76D06			ILLINOIS FED. AID PROJECT	



- CONSTRUCTION LIMITS
- IL 158 STA 5+37.78
  - IL 13 WB ENTRANCE RAMP STA 90+00.00
  - IL 158 STA 5+37.78
  - IL 15 WB EXIT RAMP STA 10+00.00
  - IL 13/158 STA 20+00.00
  - CENTREVILLE AVE STA 30+00.00
  - IL 13 STA 40+00.00

ALL DIMENSIONS ARE E-E  
UNLESS OTHERWISE NOTED



FILE NAME =  
...\\118-D876D06-Sht-Grading-002.dgn

USER NAME = CFC...  
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PLOT DATE = 3/19/2012

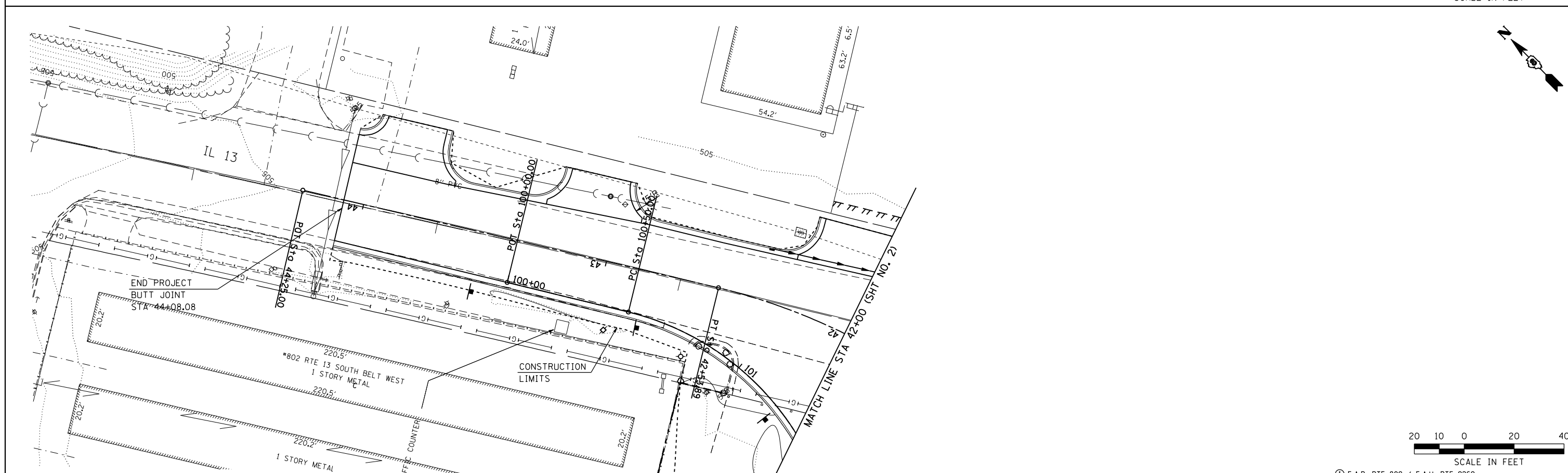
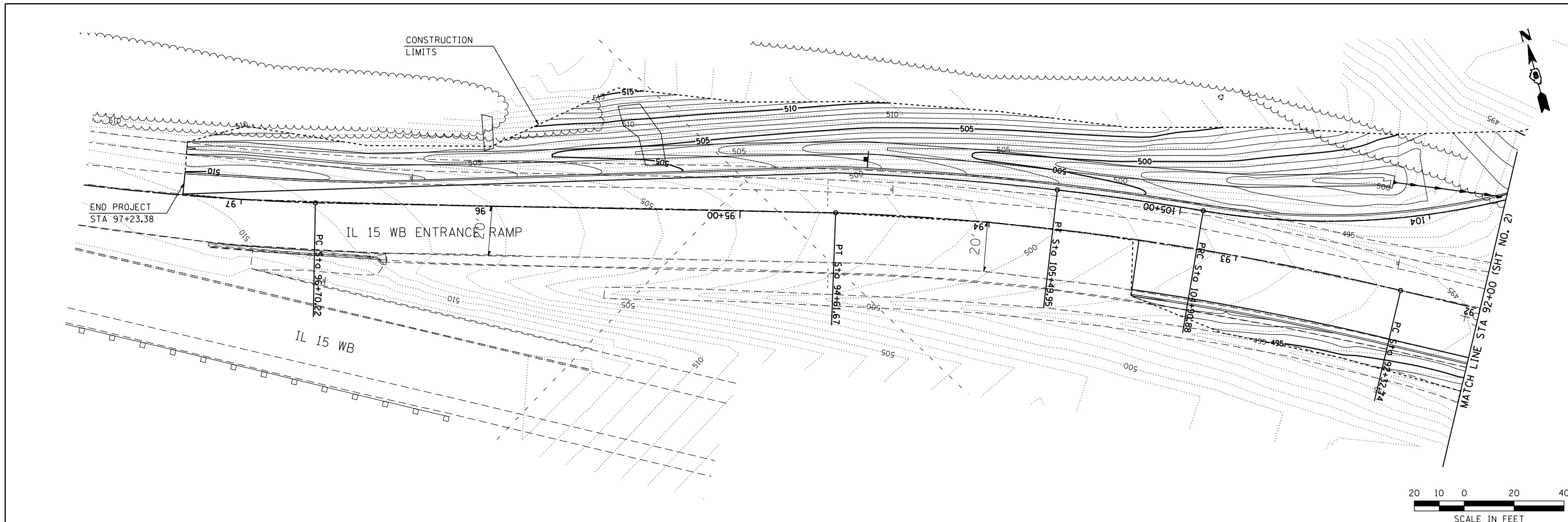
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**HORNER & SHIRIN, INC.**  
**ENGINEERS**

**GRADING DETAILS**  
IL 158 / CENTREVILLE AVENUE  
SCALE: 1" = 20'  
SHEET NO. 2 OF 4 SHEETS  
STA. 2+00.00 TO STA. 32+50.00

① F.A.P. RTE 809 / F.A.U. RTE 9269			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
①	135-N	ST. CLAIR	206
CONTRACT NO. D76DO			SHEET NO. 118
ILLINOIS FED. AID PROJECT			



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	PLOT DATE = 3/19/2012	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HORNER & SHIRIN, INC.  
ENGINEERS**

**GRADING DETAILS**

IL 15 WESTBOUND ENTRANCE RAMP & IL 13 WEST LEG

SCALE: 1" = 20'      SHEET NO. 3 OF 4 SHEETS      STA.      TO STA.

① F.A.P. RTE 809 / F.A.U. RTE 9269			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
①	135-N	ST. CLAIR	206
			SHEET NO. 119
CONTRACT NO. 76D06			
ILLINOIS FED. AID PROJECT			

MATCH LINE STA 11+75 (SHT NO. 2)

PT Sta 11+87.85

END PROJECT STA 12+60.00

IL 15 WB EXIT RAMP

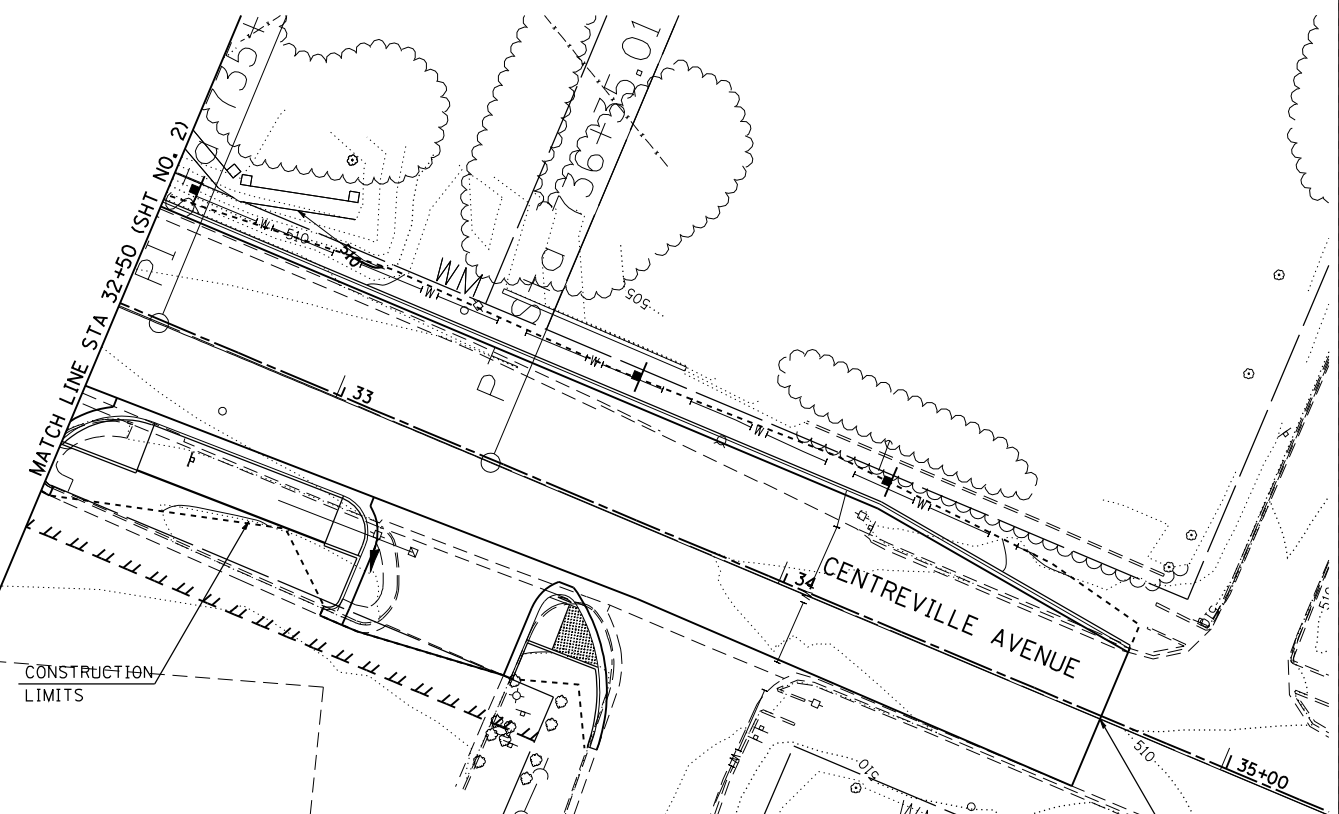
POT Sta 14+00.00

END PROJECT STA 24+05.55

MATCH LINE STA 22+00 (SHT NO. 2)

PR Sta 22+45.55

IL 13/158

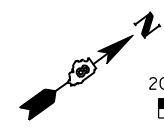


CONSTRUCTION LIMITS

CENTREVILLE AVENUE

END PROJECT STA 34+71.81

2 STORY FRAME BUILDING #920  
CENTREVILLE RD



SCALE IN FEET

FILE NAME = ...\\120-D876D06-Sht-Grading-004.dgn

USER NAME = CFC...

DESIGNED -  
DRAWN -

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HORNER &  
SHIRIN, INC.  
ENGINEERS

**GRADING DETAILS**  
IL 15 WESTBOUND EXIT RAMP, IL 13 EAST LEG  
& IL 158 / CENTREVILLE AVENUE

SCALE: 1" = 20'

SHEET NO. 4 OF 4 SHEETS

STA. TO STA.

F.A.P. RTE 809 / F.A.U. RTE 9269

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
①	135-N	ST. CLAIR	206	120
CONTRACT NO. 76D06				

ILLINOIS FED. AID PROJECT

# SCHEDULE OF QUANTITIES

SCHEDULE OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE 0021		
CODE NO	ITEM	UNIT				
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1		
81028760	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2 1/2" DIA.	FOOT	545	545		
81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	200	200		
81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	8	8		
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	38	38		
82107200	UNDERPASS LUMINAIRE, 100 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	4	4		
82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	1	1		
83009400	LIGHT POLE, ALUMINUM, 45 FT. M.H., 10 FT. MAST ARM	EACH	38	38		
83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	247	247		
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	38	38		
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	3	3		

SCHEDULE OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE 0021		
CODE NO	ITEM	UNIT				
84200804	REMOVAL OF POLE FOUNDATION	EACH	3	3		
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1	1		
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1	1		
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1	1		
X8110522	CONDUIT ATTACHED TO STRUCTURE, 2" DIA. STAINLESS STEEL	FOOT	100	100		
X8410102	TEMPORARY LIGHTING SYSTEM	L SUM	1	1		
XXXXXX1	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6	FOOT	297	297		
XXXXXX2	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8	FOOT	597	572		
XXXXXX3	ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6	FOOT	1381	1381		
XXXXXX4	ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8	FOOT	2748	2748		

FILE NAME = c:\pwwork\pwwork\prestone\d0133118\d0133118-d0133118-light.dgn	USER NAME = prestone	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/19/2012	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

LIGHTING SCHEDULE OF QUANTITIES			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
809	135-N	ST. CLAIR	206	121
CONTRACT NO. 76D06				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



CKT#	FROM	TO	FEET	2 1/2" UNDRGRN CONDUIT	2" ATS CONDUIT SS	2" ATS CONDUIT GALV	2/C#6 #8G TRENCH	2/C#4 #6G TRENCH	2/C#6 #8G CONDUIT	2/C#4 #6G CONDUIT
1	EXP# 2 STA. 5 73+70	LP#9 STA. 575 + 62, 14' RT	165				171			
	LP#9 STA. 575 + 62, 14' RT	LP#10 STA. 577 + 03, 10' RT	160				166			
	LP#10 STA. 577 + 03, 10' RT	LP#11 STA. 726 + 84, 75' RT	100				106			
	LP#13 STA. 726 + 46, 33' RT	LP#12 STA. 725 + 01,53' RT	110				116			
	LP#11 STA. 726 + 84, 75' RT	LP#13 STA. 726 + 46, 33' RT	165	60			111		60	
	LP#13 STA. 726 + 46, 33' RT	LP#14 STA. 726 + 98, 47' RT	100				106			
	LP#14 STA. 726 + 98, 47' RT	LP#15 STA. 1 + 16, 79' RT	110	30			86		30	
	LP#15 STA. 1 + 16, 79' RT	LP#16 STA. 95 + 00, 73' RT	50				56			
	LP#16 STA. 95 + 00, 73' RT	LP#17 STA. 727 + 80, 73' RT	60	25			41		25	
	LP#17 STA. 727 + 80, 73' RT	CONTROLLER CKT 1	30				36			

CKT#	FROM	TO	FEET	2 1/2" UNDRGRN CONDUIT	2" ATS CONDUIT SS	2" ATS CONDUIT GALV	2/C#6 #8G TRENCH	2/C#4 #6G TRENCH	2/C#6 #8G CONDUIT	2/C#4 #6G CONDUIT
2	CONTROLLER CKT 2	LP#18 STA. 729 + 30, 52' RT	95					101		
	LP#18 STA. 729 + 30, 52' RT	JB1	86		12.5			76.5		13.5
	JB1	UL#19 JB STA. 730 + 27	31			31				33
	UL#19 JB STA. 730 + 27	JB2	22			22				24
	JB2	JB3	52		25			27		27
	JB3	UL#20 JB STA. 730 + 75	26			26				28
	UL#20 JB STA. 730 + 75	JB4	26			26				28
	JB4	LP#21 STA. 731 + 62, 33' RT	67.5		12.5			56		13.5
	LP#21 STA. 731 + 62, 33' RT	LP#22 STA. 15 + 46, 4.65' RT	100					106		
	EXP#8	LP#23 STA. 18 + 38, 15' LT	180					186		
	LP#23 STA. 18 + 38, 15' LT	LP#24 STA. 17 + 34, 15' LT	155					161		
	LP#25 STA. 15 + 86, 21.3' LT	LP#24 STA. 17 + 34, 15' LT	150					156		
	LP#22 STA. 15 + 46, 4.65' RT	LP#25 STA. 15 + 86, 21.3' LT	100	30				76		30
	LP#25 STA. 15 + 86, 21.3' LT	LP#26 STA. 136 + 55, 91' RT	55					61		
	LP#26 STA. 136 + 55, 91' RT	LP#28 STA. 136 + 44,2.88' RT	100	55				51		55
	LP#28 STA. 136 + 44,2.88' RT	LP#27 STA. 137 + 81, 26.6' LT	185	45				146		45

CKT#	FROM	TO	FEET	2 1/2" UNDRGRN CONDUIT	2" ATS CONDUIT SS	2" ATS CONDUIT GALV	2/C#6 #8G TRENCH	2/C#4 #6G TRENCH	2/C#6 #8G CONDUIT	2/C#4 #6G CONDUIT
3	LP#31 STA. 134 + 88, 66' LT	LP#32 STA. 134 + 44, 55' LT	95							
	LP#31 STA. 134 + 88, 66' LT	LP#33 STA. 134 + 92, 7.01' RT	115	40				81		40
	LP#33 STA. 134 + 92, 7.01' RT	LP#34 STA. 134 + 16, 88' RT	130	55				136		55
	LP#34 STA. 134 + 16, 88' RT	LP#35 STA. 732 + 54, 102' LT	75					81		
	LP#35 STA. 732 + 54, 102' LT	LP#36 STA. 13 + 30, 57' LT	75					81		
	LP#35 STA. 732 + 54, 102' LT	LP#37 STA. 732 + 33, 70' LT	75	30				51		30
	LP#39 STA. 11 + 62, 57' RT	LP#38 STA. 10 + 42, 35' RT	120					126		
	LP#40 STA. 12 + 87, 30' RT	LP#39 STA. 11 + 62, 57' RT	120					126		
	LP#41 STA. 731 + 45, 40' LT	LP#40 STA. 12 + 87, 30' RT	105					111		
	LP#37 STA. 732 + 33, 70' LT	LP#41 STA. 731 + 45, 40' LT	120	40				86		40
	LP#41 STA. 731 + 45, 40' LT	JB5	47.5		12.5			38		13.5
	JB5	UL#42 JB STA. 730 + 42	25					25		27
	UL#42 JB STA. 730 + 42	JB6	28					28		
	JB6	JB7	53		25			28		27
	JB7	UL#43 JB STA. 729 + 86	20					20		22
	UL#43 JB STA. 729 + 86	JB8	22					22		24
	JB8	LP#44 STA. 728 + 62, 42' LT	96.5		12.5			85		13.5
LP#44 STA. 728 + 62, 42' LT	LP#45 STA. 728 + 04, 75' LT	65					71			
LP#47 STA. 133 + 57, 69' RT	LP#46 STA. 133 + 61, 28' RT	110					116			
LP#48 STA. 135 + 56, 112' RT	LP#47 STA. 133 + 57, 69' RT	60					66			
LP#49 STA. 13 + 30, 100' LT	LP#48 STA. 135 + 56, 112' RT	90					96			
LP#50 STA. 12 + 86, 71' LT	LP#49 STA. 13 + 30, 100' LT	90					96			
LP#50 STA. 12 + 86, 71' LT	LP#40 STA. 12 + 87, 30' RT	125	70				61		70	
LP#44 STA. 728 + 62, 42' LT	CONTROLLER CKT# 3	175	65				116		65	

WORK ITEM DESCRIPTIONS PER THE ELECTRICAL GENERAL STAGING NOTES

LP#9-LP#18, LP#20-LP#41 AND LP#44-LP#50 ARE THE FOLLOWING:  
 -LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT-1 EACH  
 -LIGHT POLE, ALUMINUM, 45 FT. M.H., 10 FT. MAST ARM-1 EACH PER STANDARD 830001  
 AND "POLE HANDHOLE WIRING DETAIL"  
 -BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE-1 EACH  
 -LIGHT POLE FOUNDATION, 30" DIAMETER-6.5 FOOT PER STANDARD 836001-01

UP#19, UP#20, UP#42 & UP#43 ARE THE FOLLOWING:  
 UNDERPASS LUMINAIRE, 100 WATT, HIGH PRESSURE SODIUM VAPOR- 1 EACH PER  
 "UNDERPASS LIGHTING WITHOUT CENTER PIER DETAIL"

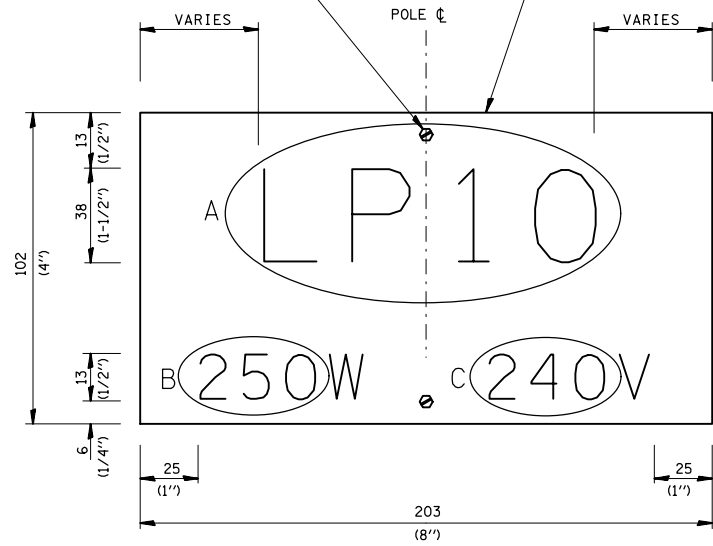
JB1-JB8, UL#19 JB, UL#20 JB, UL#42 JB AND UL#43 JB ARE THE FOLLOWING:  
 JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"  
 PER "UNDERPASS LIGHTING WITHOUT CENTER PIER DETAIL"

EXP# 3 & 3A, EXP# 4 & 4A AND EXP# 5 & 5A ARE THE FOLLOWING:  
 -REMOVAL OF LIGHTING UNIT, NO SALVAGE-1 EACH  
 -REMOVAL OF POLE FOUNDATION-1 EACH

FILE NAME =	USER NAME = prestonme	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LIGHTING WORK ITEM DESCRIPTIONS AND CABLE AND CONDUIT SCHEDULES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\dot\prestonme\d0133118\d876d06-sh-t-1ght.dgn	DRAWN -	REVISED -	809			135-N	ST. CLAIR	206	123	
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 76D06							
PLOT DATE = 3/19/2012	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

19 (3/4") STAINLESS STEEL SELF-TAPPING SCREWS WITH 5 STAINLESS STEEL SPACERS BEHIND PANEL. HOLES FOR MOUNTING SHALL BE DRILLED ON POLE C ONLY (2-SCREWS PER PANEL).

19 GA ALUMINUM PLATE.



TYPICAL POLE IDENTIFICATION PANEL

SIGN PANEL DETAIL

NOTE:  
ALL LETTERS AND NUMERALS SHALL BE SERIES C GOTHIC, NON-REFLECTIVE WHITE PREMIUM QUALITY ENAMEL.

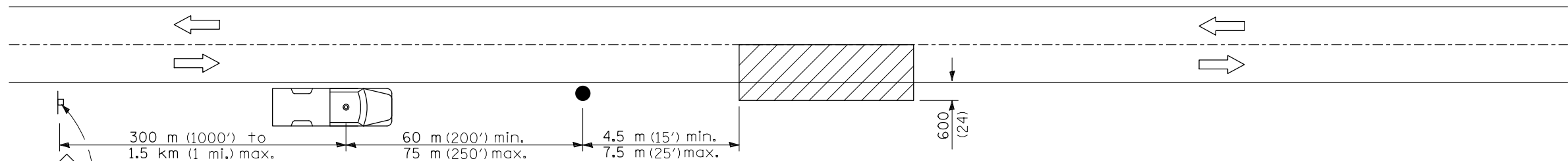
SIGN INFORMATION SHALL BE IN ACCORDANCE WITH LIGHT POLE NUMBERING & WATTAGES SHOWN IN THE SCHEDULE.

ON BRIDGE PARAPET MOUNTED POLES, MOUNT ONE SIGN PANEL FACING ROADWAY 610 (2 FT) ABOVE POLE BASE.

ORIENT SIGN PANEL TO POLE PER STANDARD 830001



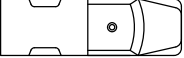

MESSAGE AREA		
A	B	C
LP9	250	240
LP10	250	240
LP11	250	240
LP12	250	240
LP13	250	240
LP14	250	240
LP15	250	240
LP16	250	240
LP17	250	240
LP18	250	240
LP21	250	240
LP22	250	240
LP23	250	240
LP24	250	240
LP25	250	240
LP26	250	240
LP27	250	240
LP28	250	240
LP29	250	240
LP30	250	240
LP31	250	240

MESSAGE AREA		
A	B	C
LP32	250	240
LP33	250	240
LP34	250	240
LP35	250	240
LP36	250	240
LP37	250	240
LP38	250	240
LP39	250	240
LP40	250	240
LP41	250	240
LP44	250	240
LP45	250	240
LP46	250	240
LP47	250	240
LP48	250	240
LP49	250	240
UP19	100	240
UP20	100	240
UP42	100	240
UP43	100	240



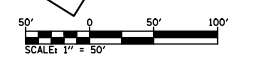
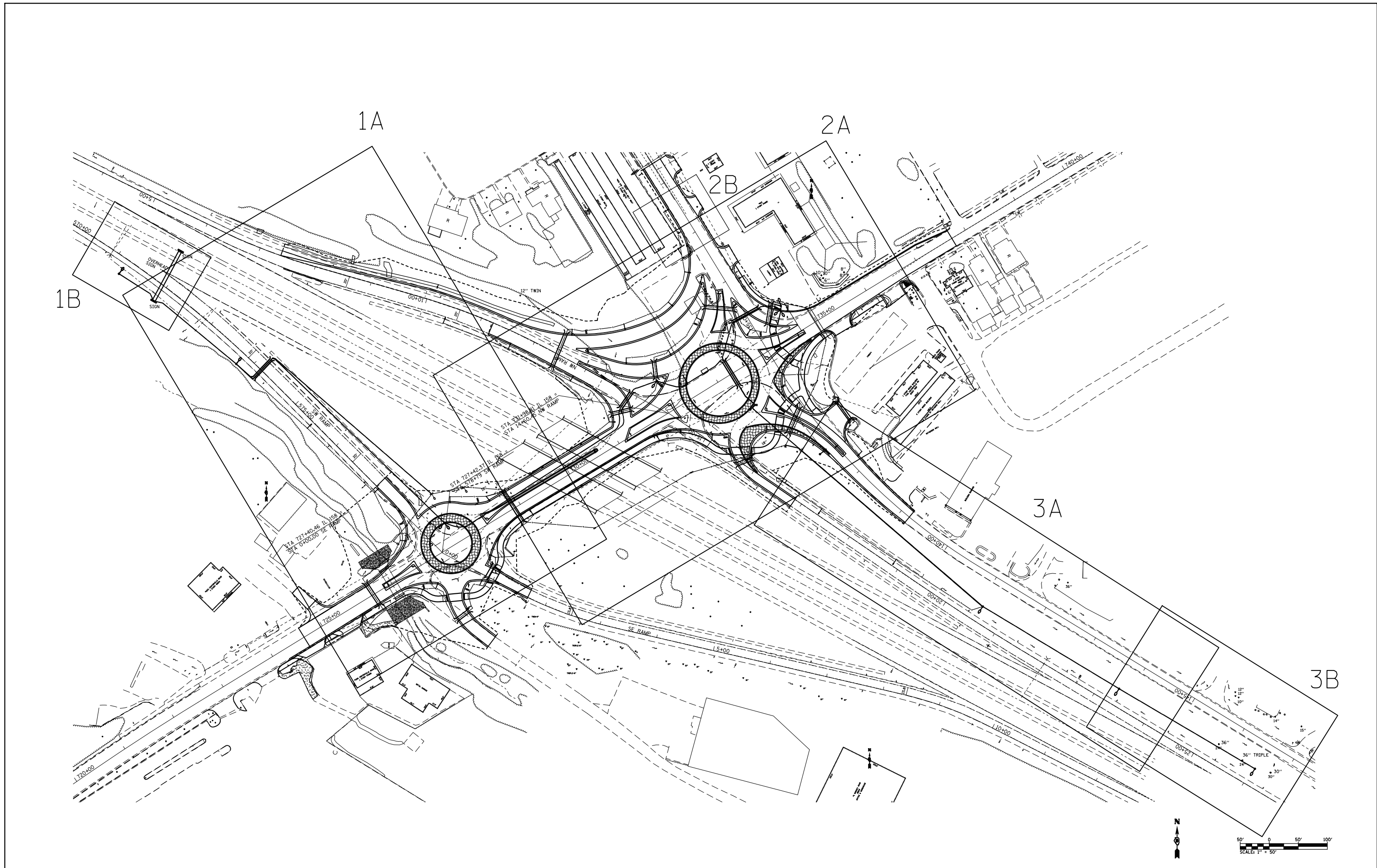
TYPICAL APPLICATIONS  
Utility operations

SYMBOLS

-  Work area
-  Sign on portable or permanent support
-  Truck with flashing amber light and dual emergency flashers
-  Flagger with traffic control sign

All dimensions are in millimeters (inches) unless otherwise shown.



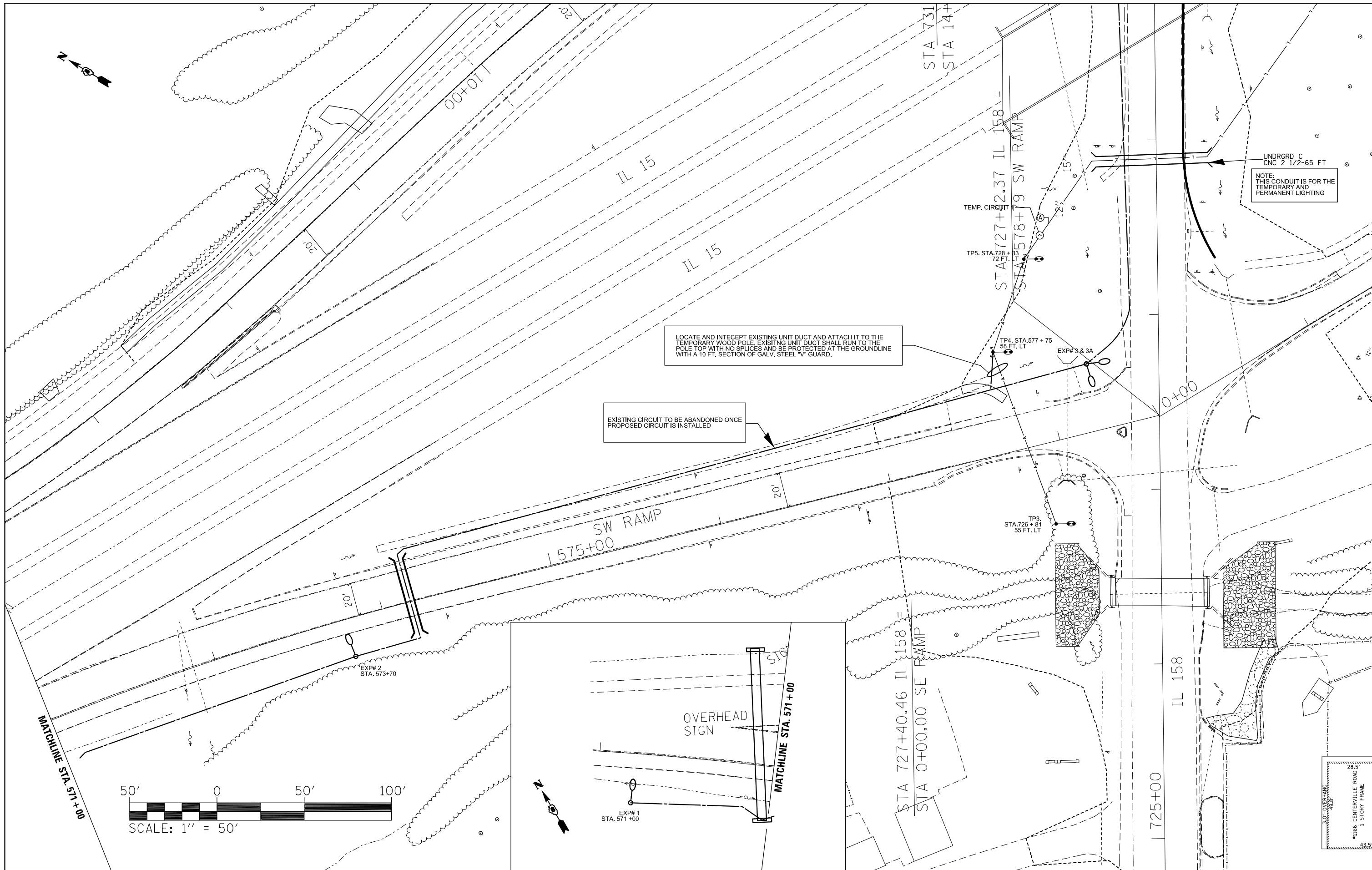


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	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/19/2012	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>LIGHTING SHEETS LAYOUT</b>				
SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
809	135-N	ST. CLAIR	206	125
CONTRACT NO. 76D06				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



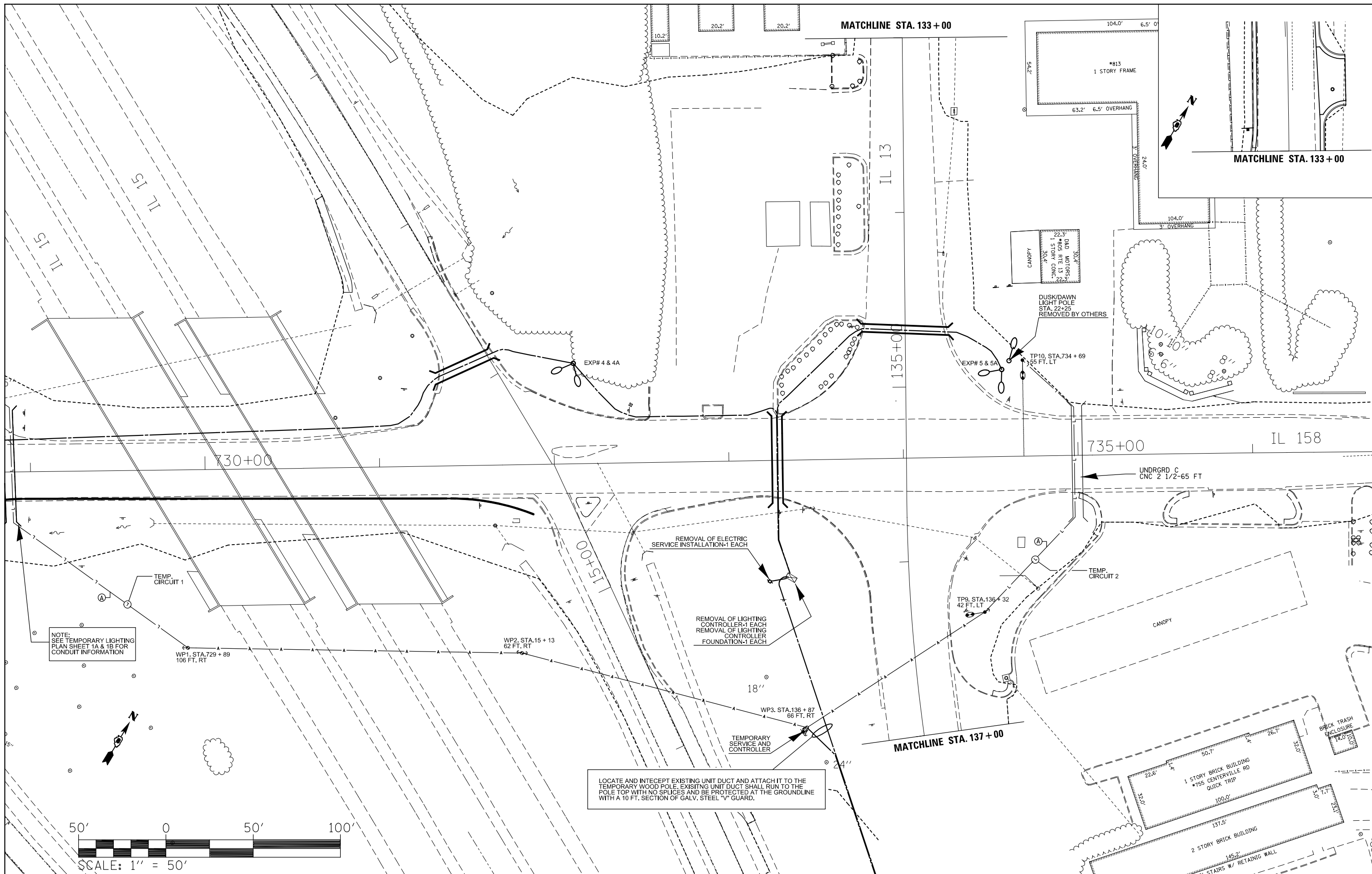
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	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/17/2012	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING PLAN SHEET 1A & 1B OF 3**

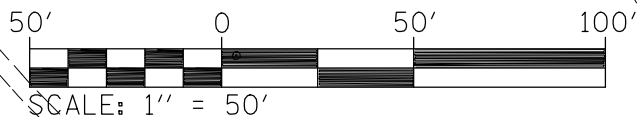
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
809	135-N	ST. CLAIR	206	126
CONTRACT NO. 76D06				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.
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NOTE:  
SEE TEMPORARY LIGHTING  
PLAN SHEET 1A & 1B FOR  
CONDUIT INFORMATION

LOCATE AND INTERCEPT EXISTING UNIT DUCT AND ATTACH IT TO THE  
TEMPORARY WOOD POLE. EXISTING UNIT DUCT SHALL RUN TO THE  
POLE TOP WITH NO SPLICES AND BE PROTECTED AT THE GROUNDLINE  
WITH A 10 FT. SECTION OF GALV. STEEL "V" GUARD.



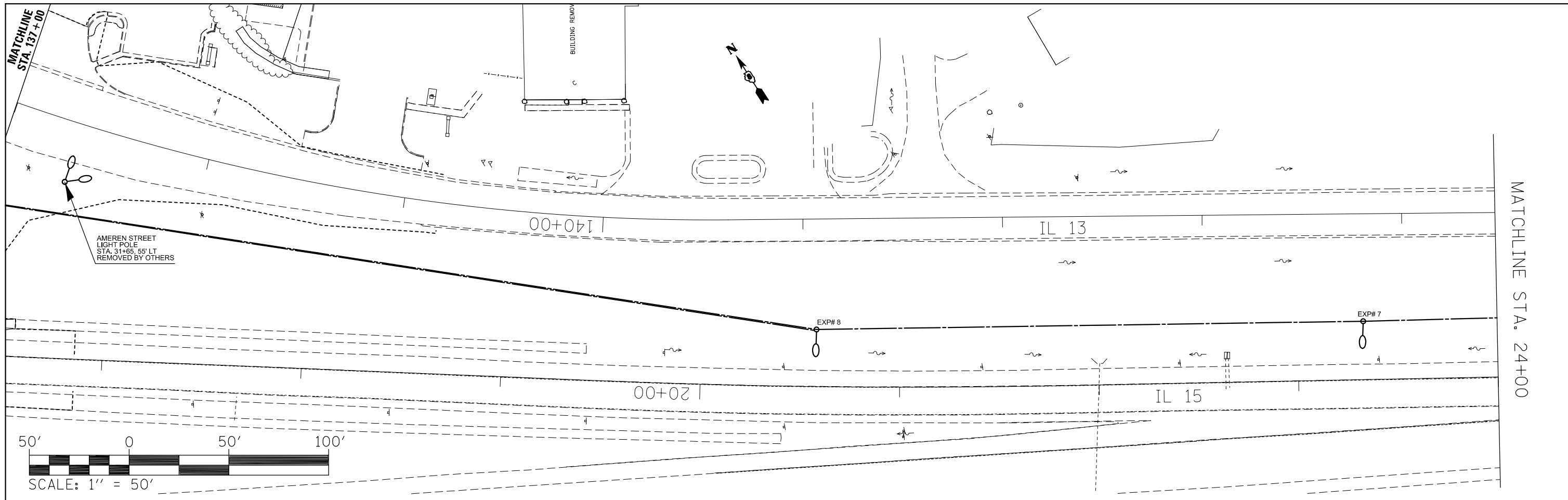
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	PLOT DATE = 5/17/2012	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

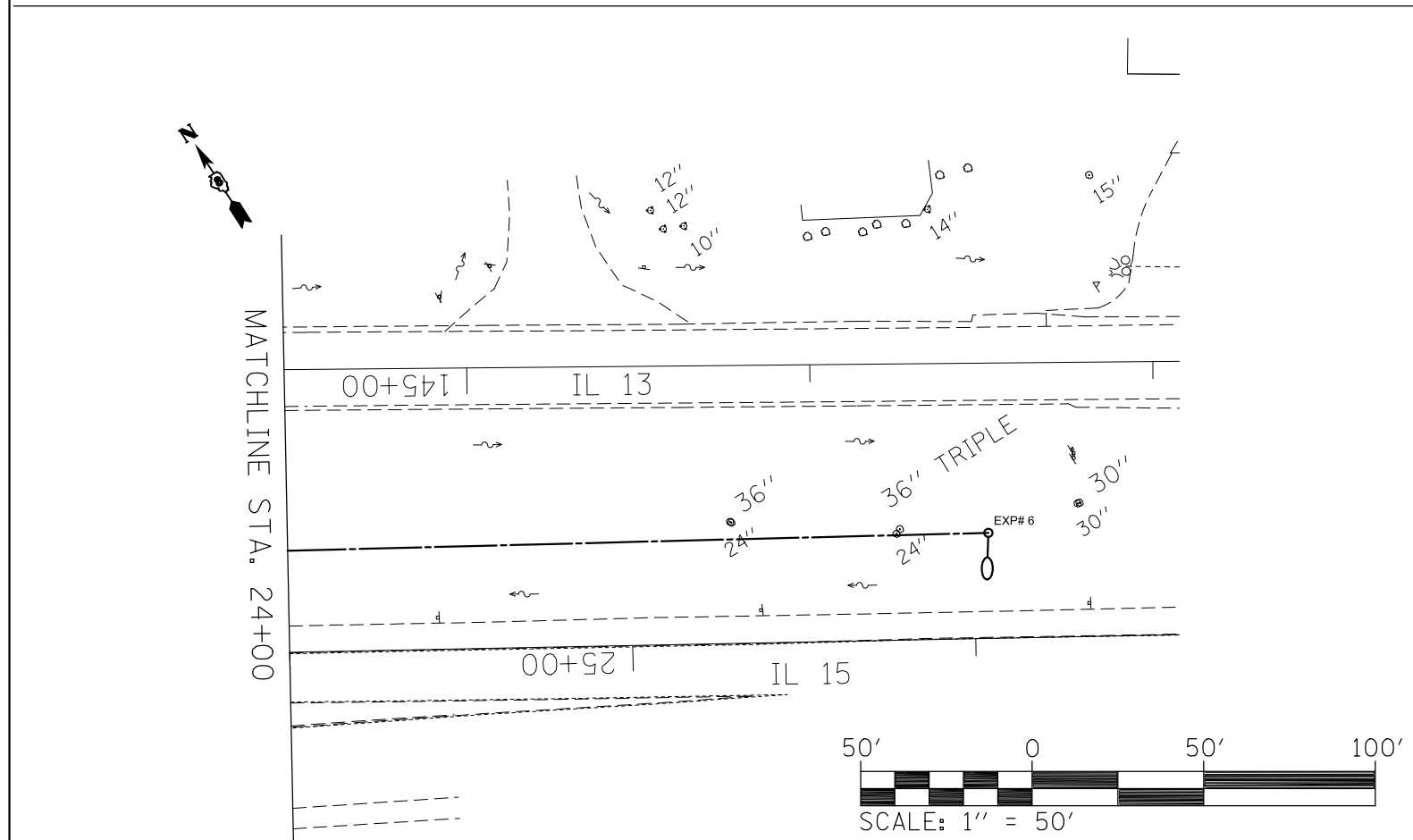
**TEMPORARY LIGHTING PLAN SHEET 2A & 2B OF 3**

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
809	135-N	ST. CLAIR	206	127
CONTRACT NO. 76D06				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



MATCHLINE STA. 24+00



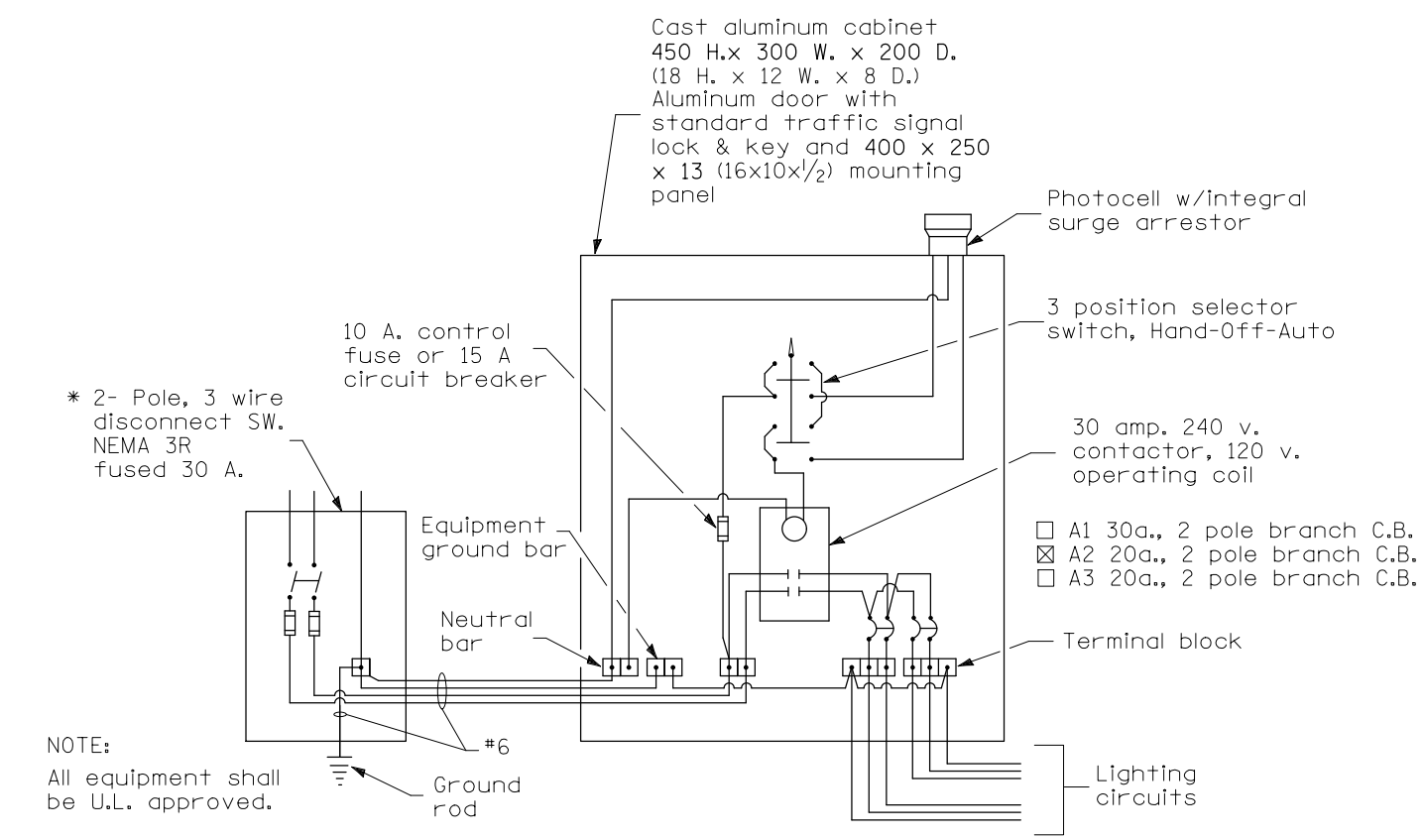
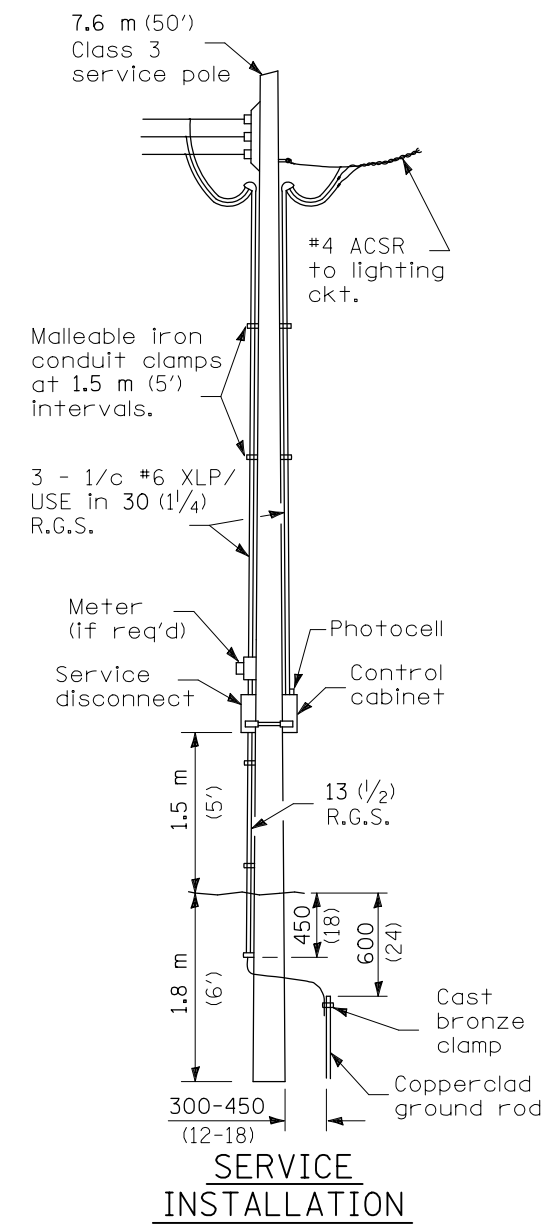
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	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/17/2012	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING PLAN SHEET 3A & 3B OF 3**

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.
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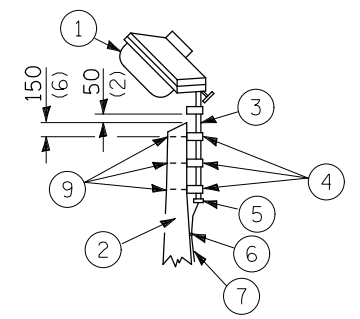
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
809	135-N	ST. CLAIR	206	128
CONTRACT NO. 76D06				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**WIRING DIAGRAM**

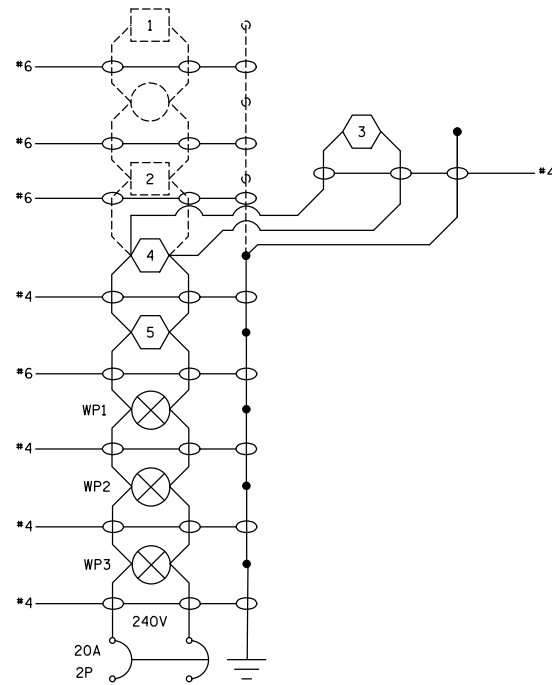
POLE LENGTH	DEPTH IN GROUND
19.8 m (65')	3.6 m (12')
18.0 m (60')	3.0 m (10')
16.8 m (55')	2.7 m (9')
16.0 m (50')	2.4 m (8')
13.7 m (45')	2.1 m (7')
12.0 m (40')	2.0 m (6.5')
10.7 m (35')	1.8 m (6')
9.0 m (30')	1.7 m (5.5')

**NOTE:**  
Luminaire(s) shall have a 2-pole inline weatherproof quick disconnect fuse holder.  
Luminaire(s) shall be oriented and the mounting angle adjusted as recommended by the Engineer.  
Connect luminaire equipment ground to ACSR messenger.

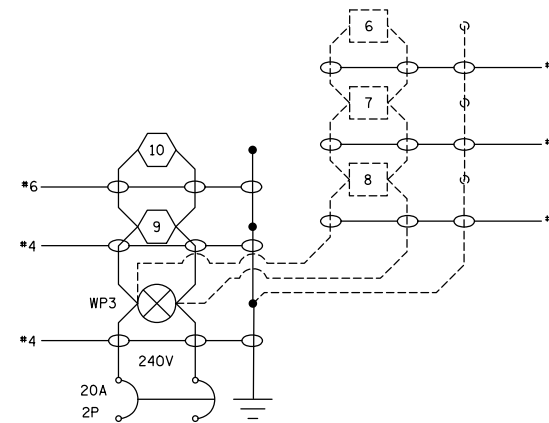


- ① Luminaire 250w HPS
- ② Wood pole, class 3 or better
- ③ 63 (2 1/2) Galv. steel conduit
- ④ Single offset pole band
- ⑤ Conduit bushing
- ⑥ Cable clamps on 600 (24) centers
- ⑦ 2/c #10 Type USE cable
- ⑧ 16 (5/8) ∅ hot dipped galvanized bolt with flat washer & locknut (3 req'd)

All dimensions are in millimeters (inches) unless otherwise shown.








TEMPORARY LIGHTING CIRCUIT 1



TEMPORARY LIGHTING CIRCUIT 2

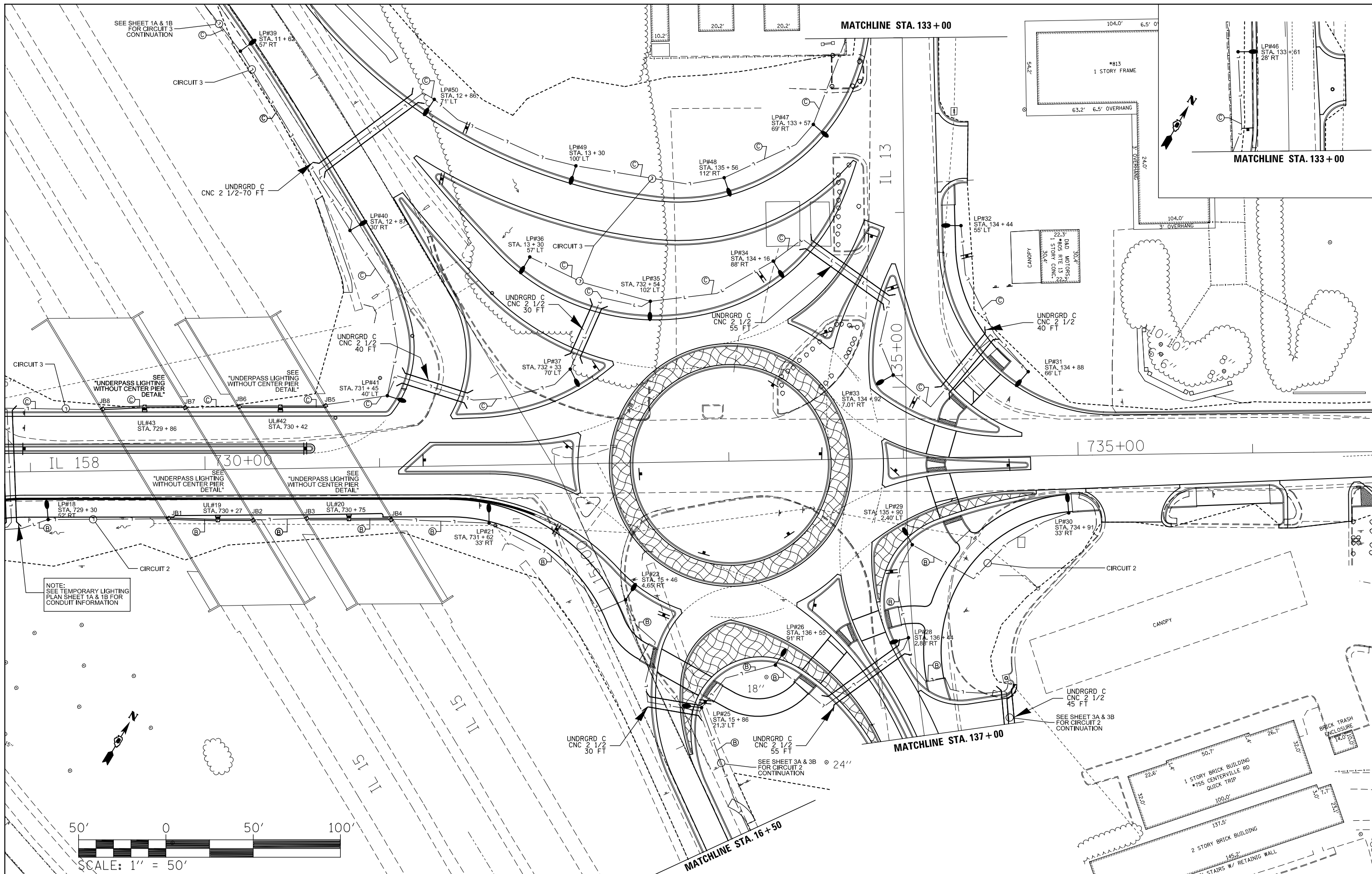
NOTES:

1. ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

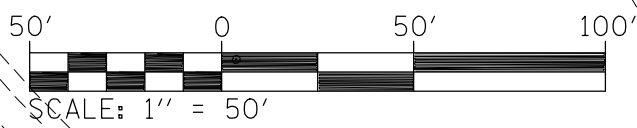
-  PROPOSED 250W HPS MULTI-MOUNT ROADWAY LUMINAIRE
-  EXISTING 250W HPS MULTI-MOUNT ROADWAY LUMINAIRE
-  TEMPORARY WOOD POLE
-  EXISTING SIGN LIGHTING
-  EXISTING UNIT DUCT

FILE NAME =	USER NAME = prestonme	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY LIGHTING WIRING DIAGRAM</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\dot\prestonme\d0133118\d876d06-sh-t-light.dgn	PLOT SCALE = 50.0000' / in.	DRAWN -	REVISED -					809	135-N	ST. CLAIR	206	130
	PLOT DATE = 5/17/2012	CHECKED -	REVISED -		CONTRACT NO. 76D06							
		DATE -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	





NOTE:  
SEE TEMPORARY LIGHTING  
PLAN SHEET 1A & 1B FOR  
CONDUIT INFORMATION



FILE NAME =	USER NAME = prestonme	DESIGNED -	REVISED -
et:\pw\work\p\midot\prestonme\d0133118\d876d06-sh1-light.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

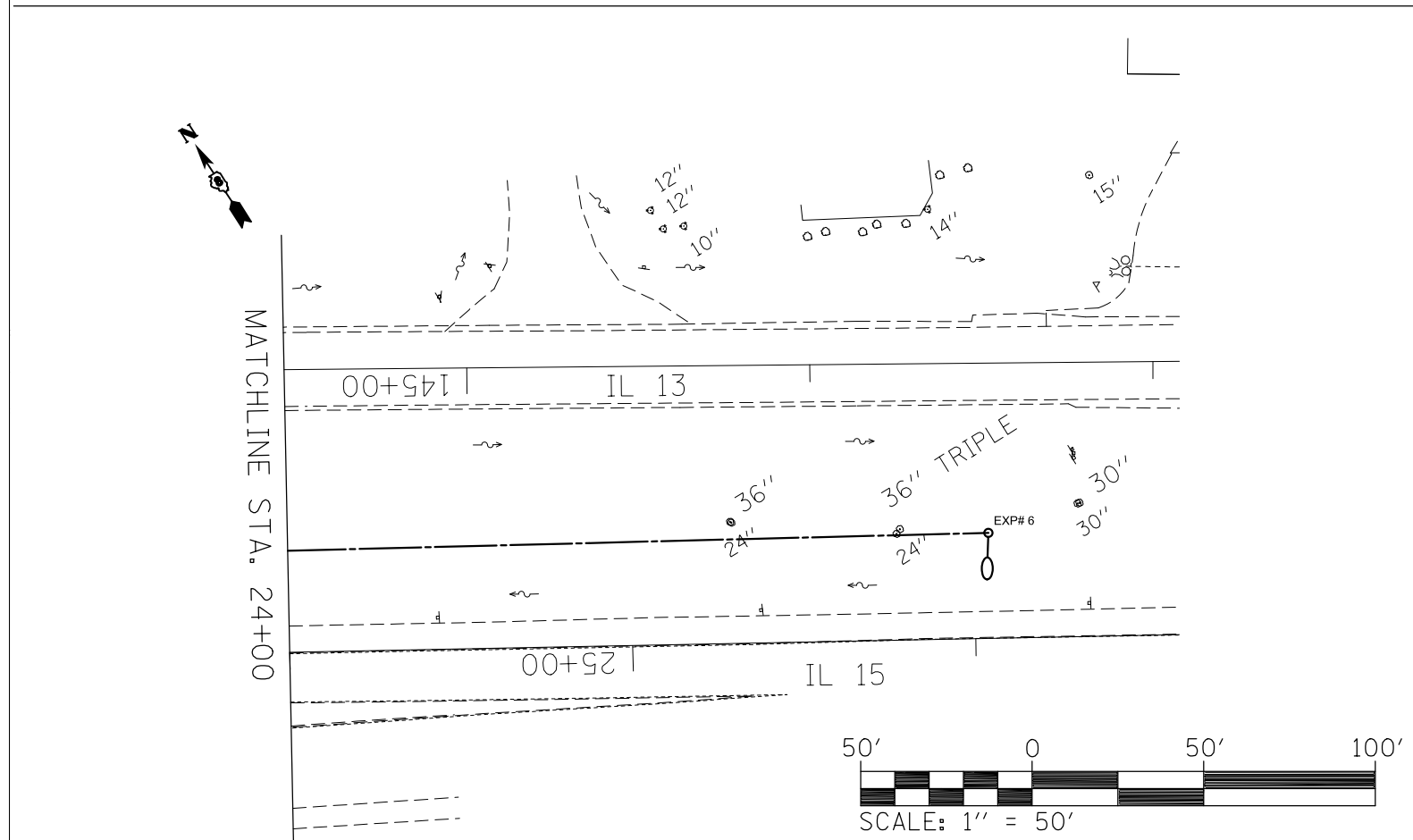
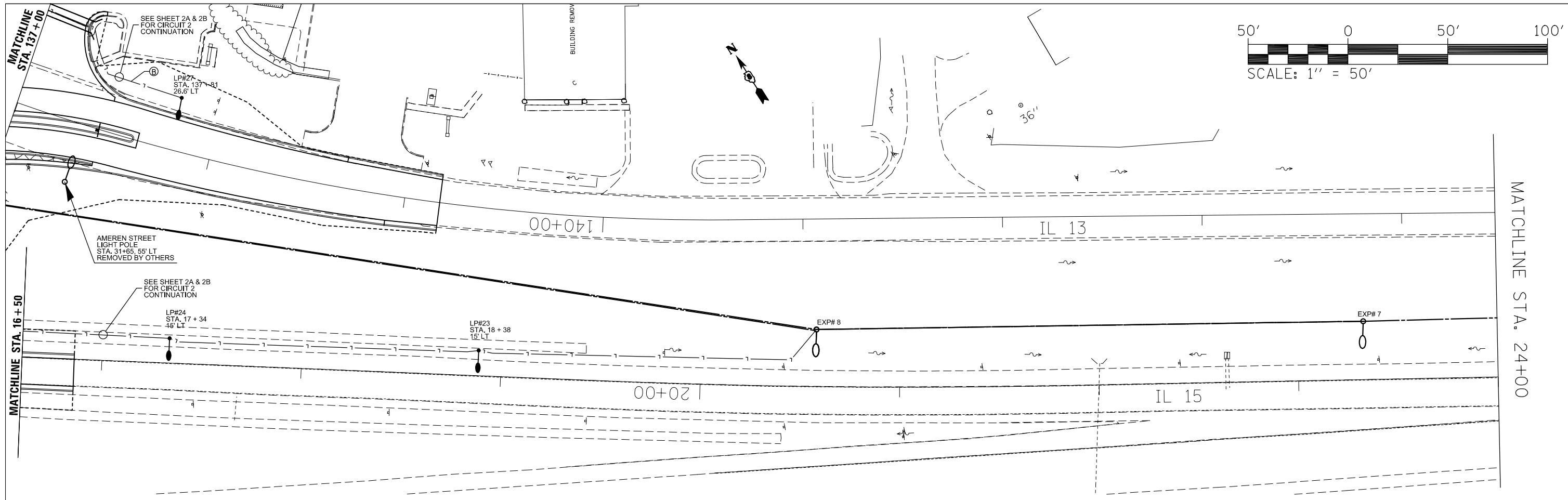
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN SHEET 2A & 2B OF 3

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
809	135-N	ST. CLAIR	206	132
CONTRACT NO. 76D06				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				





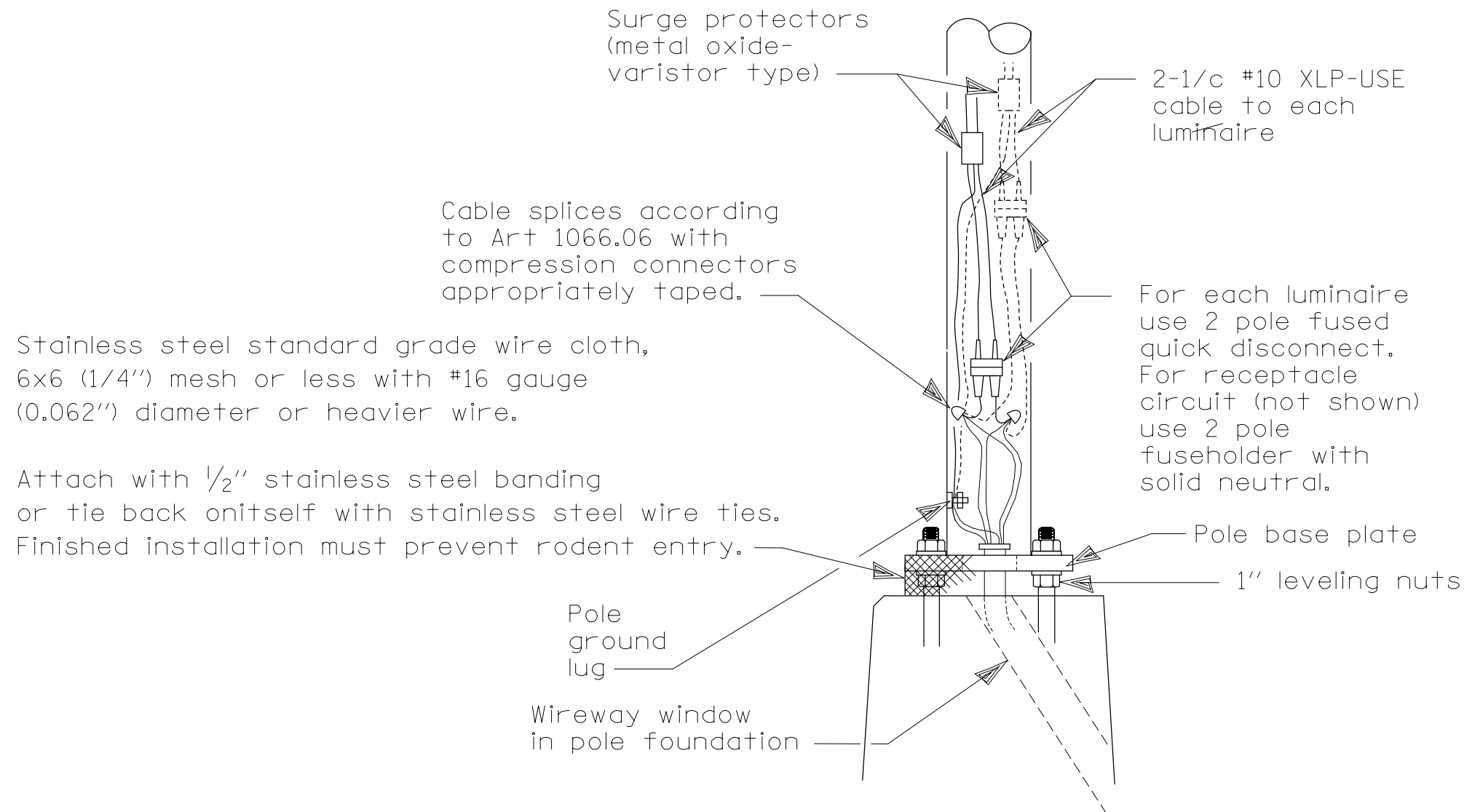
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	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/17/2012	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING PLAN SHEET 3A & 3B OF 3**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
809	135-N	ST. CLAIR	206	133
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76D06	



# WIRING DETAIL

NO SCALE

## GENERAL NOTES

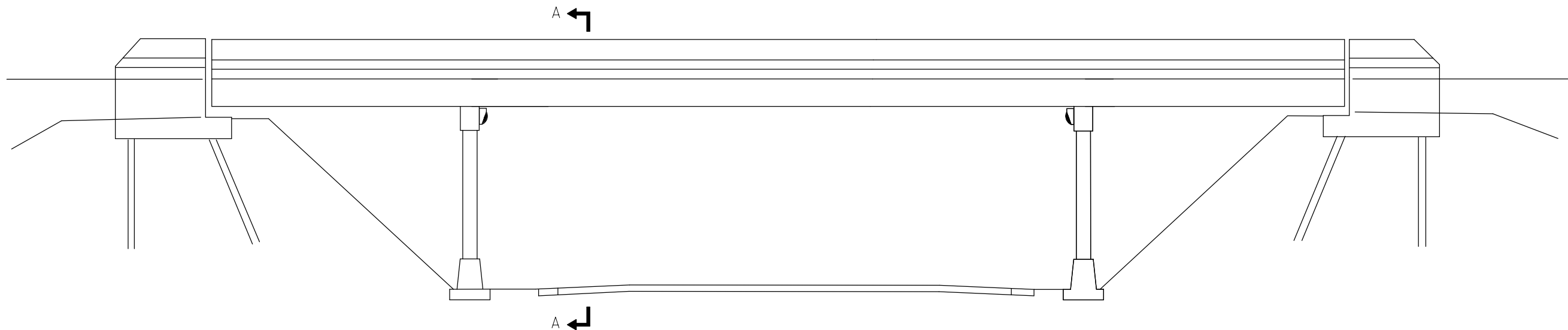
All taped splices shall use 2 layers of electrical tape over 3 layers of rubber tape as required by the Standard Specifications. Coat the finished taped splice with bonding compound.

All cable splices shall be taped unless another method has been specifically approved by the Engineer.

For example purposes the pole is shown on an anchor base. If the pole is required to be set on a breakaway base, consult the Standard Specifications.

All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME =	USER NAME = prestonme	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>POLE HANDHOLE WIRING DETAIL</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pwork\pwork\prestonme\d0133118\d876d06-sh1-light.dgn		DRAWN -	REVISED -		809	135-N	ST. CLAIR	206	134				
PLOT SCALE = 50.0000' / in.		CHECKED -	REVISED -		CONTRACT NO. 76D06								
PLOT DATE = 3/19/2012		DATE -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



OVERPASS ELEVATION  
(Not to Scale)

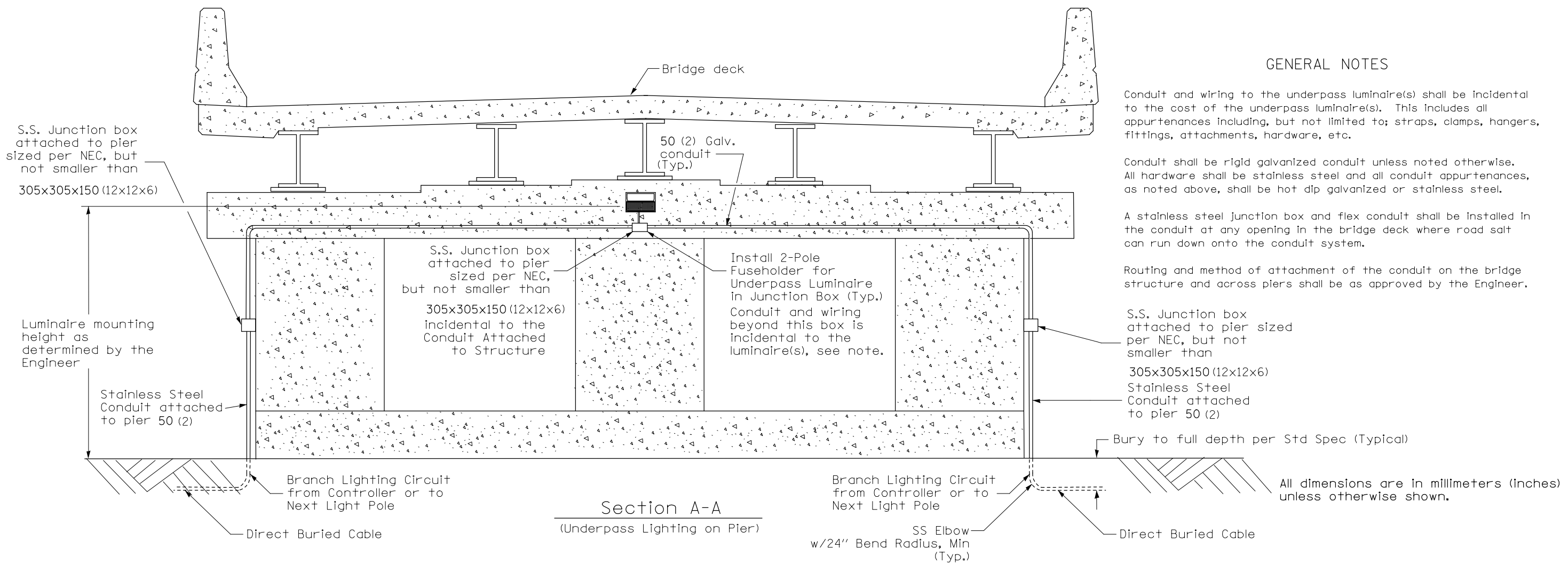
GENERAL NOTES

Conduit and wiring to the underpass luminaire(s) shall be incidental to the cost of the underpass luminaire(s). This includes all appurtenances including, but not limited to; straps, clamps, hangers, fittings, attachments, hardware, etc.

Conduit shall be rigid galvanized conduit unless noted otherwise. All hardware shall be stainless steel and all conduit appurtenances, as noted above, shall be hot dip galvanized or stainless steel.

A stainless steel junction box and flex conduit shall be installed in the conduit at any opening in the bridge deck where road salt can run down onto the conduit system.

Routing and method of attachment of the conduit on the bridge structure and across piers shall be as approved by the Engineer.



Section A-A  
(Underpass Lighting on Pier)

All dimensions are in millimeters (inches) unless otherwise shown.

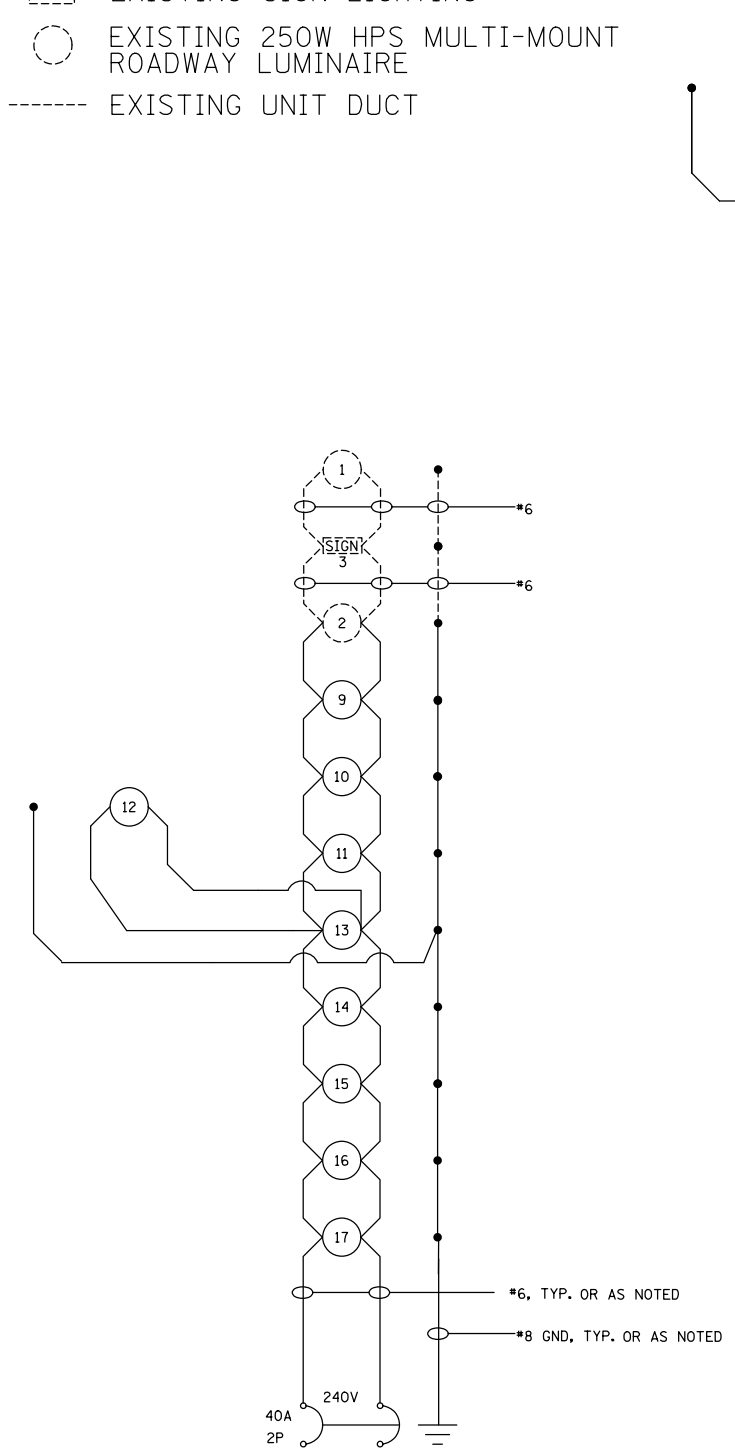
FILE NAME =	USER NAME = prestonme	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>UNDERPASS LIGHTING WITHOUT CENTER PIER DETAIL</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\dot\prestonme\d0133118\d876d06-sh1-light.dgn		DRAWN -	REVISED -		809	135-N	ST. CLAIR	206	135				
PLOT SCALE = 50.0000' / in.		CHECKED -	REVISED -		CONTRACT NO. 76D06				FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
PLOT DATE = 5/17/2012		DATE -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.				

LEGEND

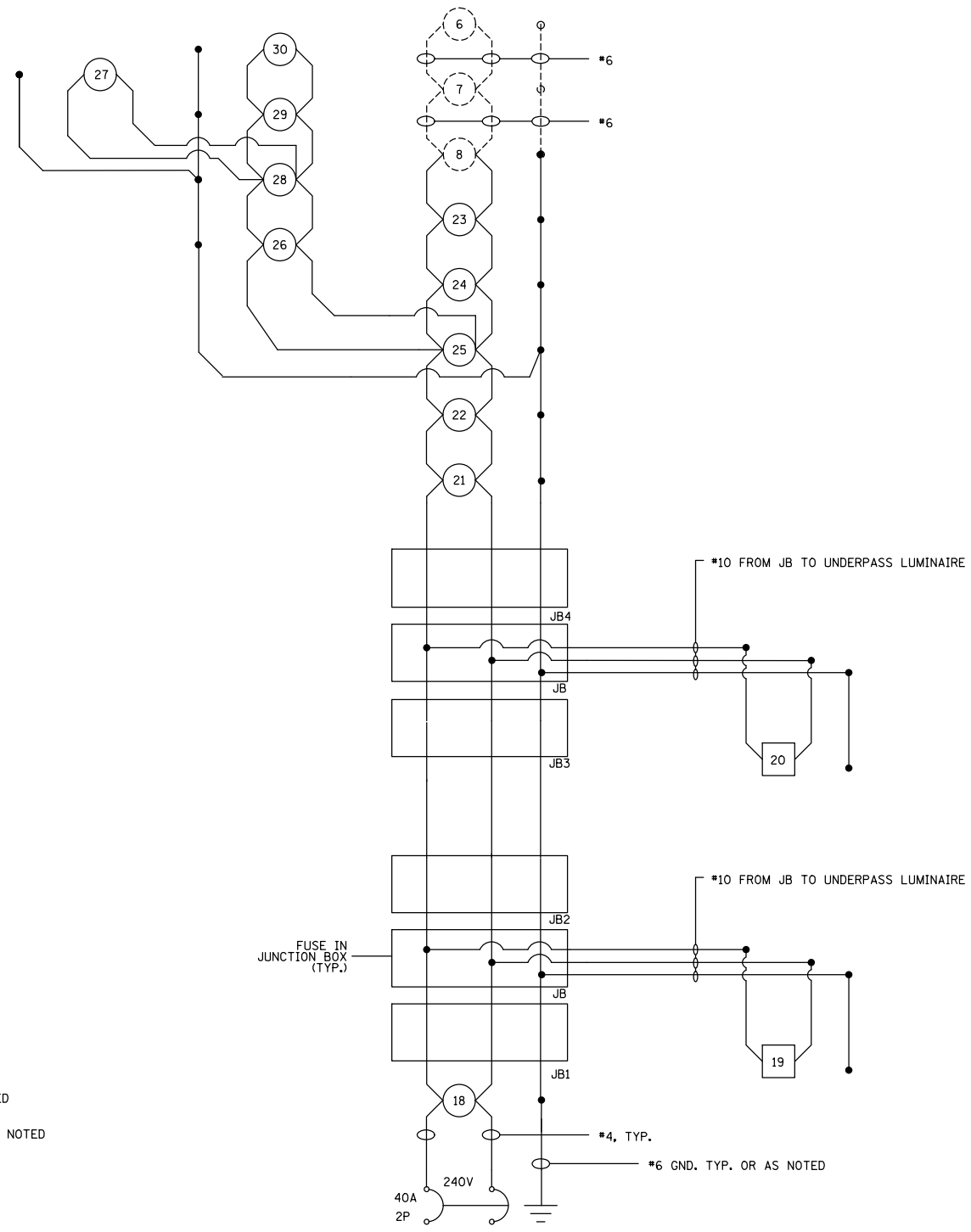
- 250W LUMINAIRE
- 100W UNDERPASS LIGHTING
- DIRECT BURIED CABLE
- ▭ JUNCTION BOX
- JB
- ⊠ SIGN
- EXISTING 250W HPS MULTI-MOUNT ROADWAY LUMINAIRE
- - - - EXISTING UNIT DUCT

NOTES:

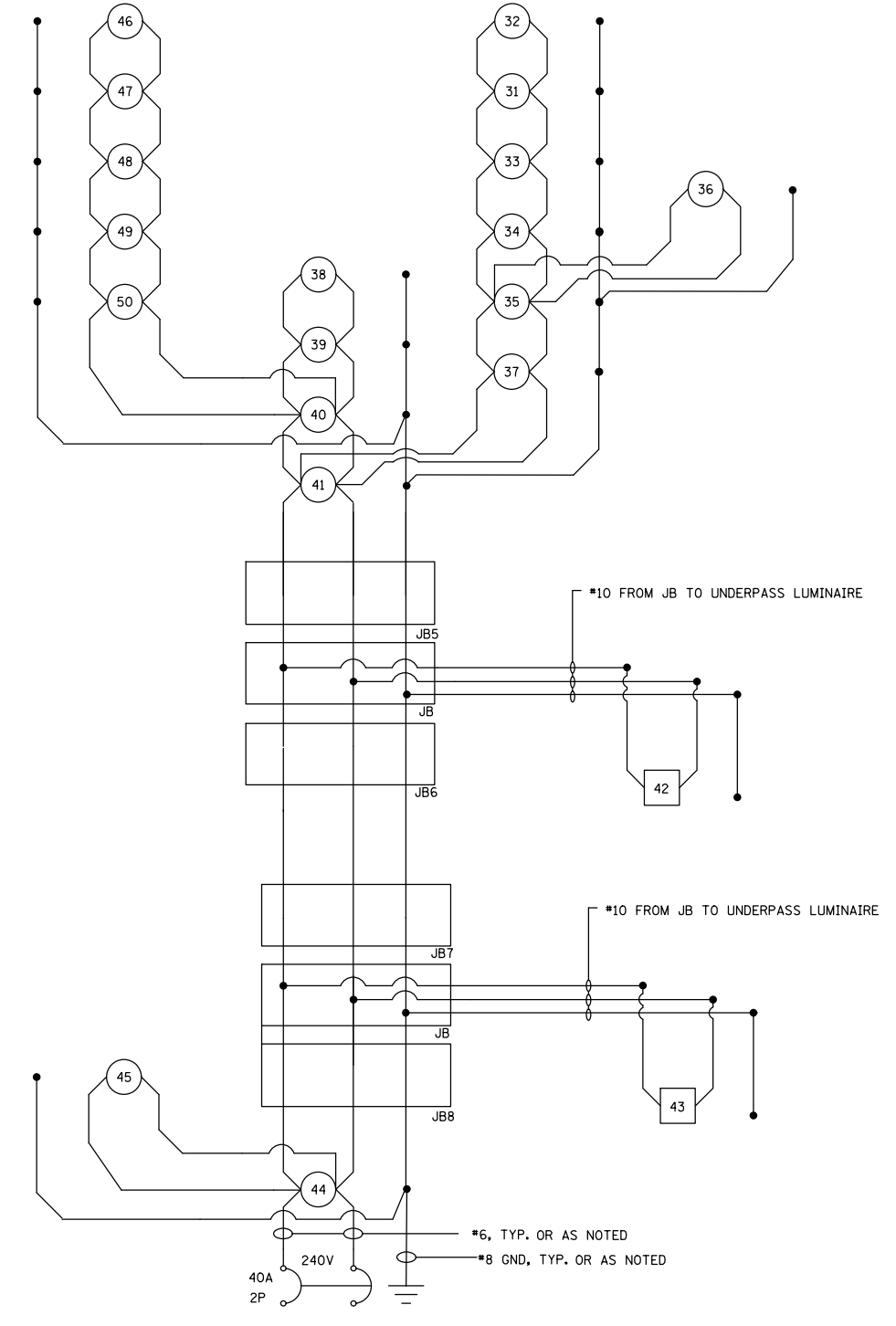
1. ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.



CKT 1



CKT 2



CKT 3

FILE NAME =	USER NAME = prestonm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LIGHTING WIRING DIAGRAM</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					809	135-N	ST. CLAIR	206	136
		PLOT SCALE = 50.0000' / in.	CHECKED -		REVISED -				CONTRACT NO. 76D06			
		PLOT DATE = 5/17/2012	DATE -		REVISED -	SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

ILLINOIS DEPARTMENT OF TRANSPORTATION  
LUMINAIRE PERFORMANCE TABLE -CONVENTIONAL

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	36EI
	Number Of Lanes	3
	Median Width	N/A
IES Surface Classification		R3
	Q-Zero Value	0.07
LIGHT POLE DATA:	Mounting Height	45EI
	Mast Arm Length	10EI
	Pole Set-Back From Edge Of Pavement	15EI
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	28500
	IES Vertical Distribution	M
	IES Control Of Distribution	EC
	IES Lateral Distribution	3
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	130EI
	Configuration	SINGLE SIDE
	Luminaire Overhang Over Edge Of Pavement Lane	-5EI

NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINATION:	Average Horizontal Illumination, (E <sub>av</sub> )	9Lux
	Uniformity Ratio, ( E <sub>av</sub> /E <sub>min</sub> )	3
LUMINANCE:	Average Luminance: (L <sub>av</sub> )	0.6Cd/m <sup>2</sup>
	Uniformity Ratios: (L <sub>av</sub> /L <sub>min</sub> )	3.5
	(L <sub>av</sub> /L <sub>max</sub> )	6
	Maximum Veiling Luminance Ratio: (L <sub>v</sub> /L <sub>av</sub> )	0.3

ILLINOIS DEPARTMENT OF TRANSPORTATION  
LUMINAIRE PERFORMANCE TABLE - UNDERPASS

GIVEN CONDITIONS

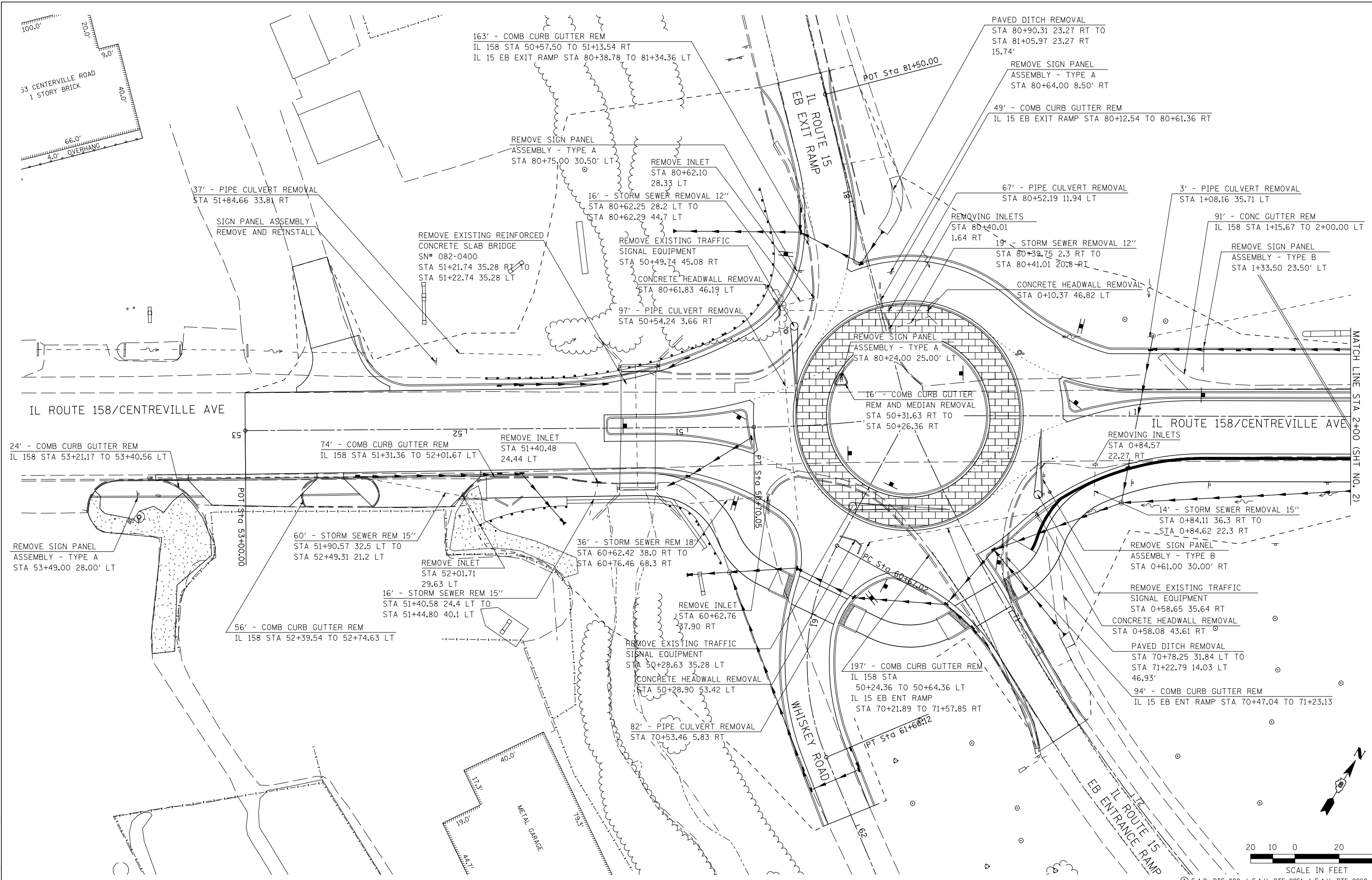
ROADWAY DATA:	Pavement Width	45EI
	Number Of Lanes	3
	Median Width	N/A
IES Surface Classification		R3
	Q-Zero Value	0.07
LIGHT POLE DATA:	Mounting Height	16EI
	Mast Arm Length	N/A
	Pole Set-Back From Edge Of Pavement	6EI
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	9800
	IES Vertical Distribution	S
	IES Control Of Distribution	NC
	IES Lateral Distribution	4
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	75EI
	Configuration	Staggered
	Luminaire Overhang Over Edge Of Pavement Lane	-6EI

NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

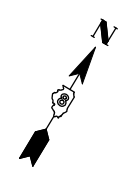
PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINATION:	Average Horizontal Illumination, (E <sub>av</sub> )	9Lux
	Uniformity Ratio, ( E <sub>av</sub> /E <sub>min</sub> )	3
LUMINANCE:	Average Luminance: (L <sub>av</sub> )	0.6Cd/m <sup>2</sup>
	Uniformity Ratios: (L <sub>av</sub> /L <sub>min</sub> )	3.5
	(L <sub>av</sub> /L <sub>max</sub> )	6
	Maximum Veiling Luminance Ratio: (L <sub>v</sub> /L <sub>av</sub> )	0.3



LAST SAVED = 2/20/2012  
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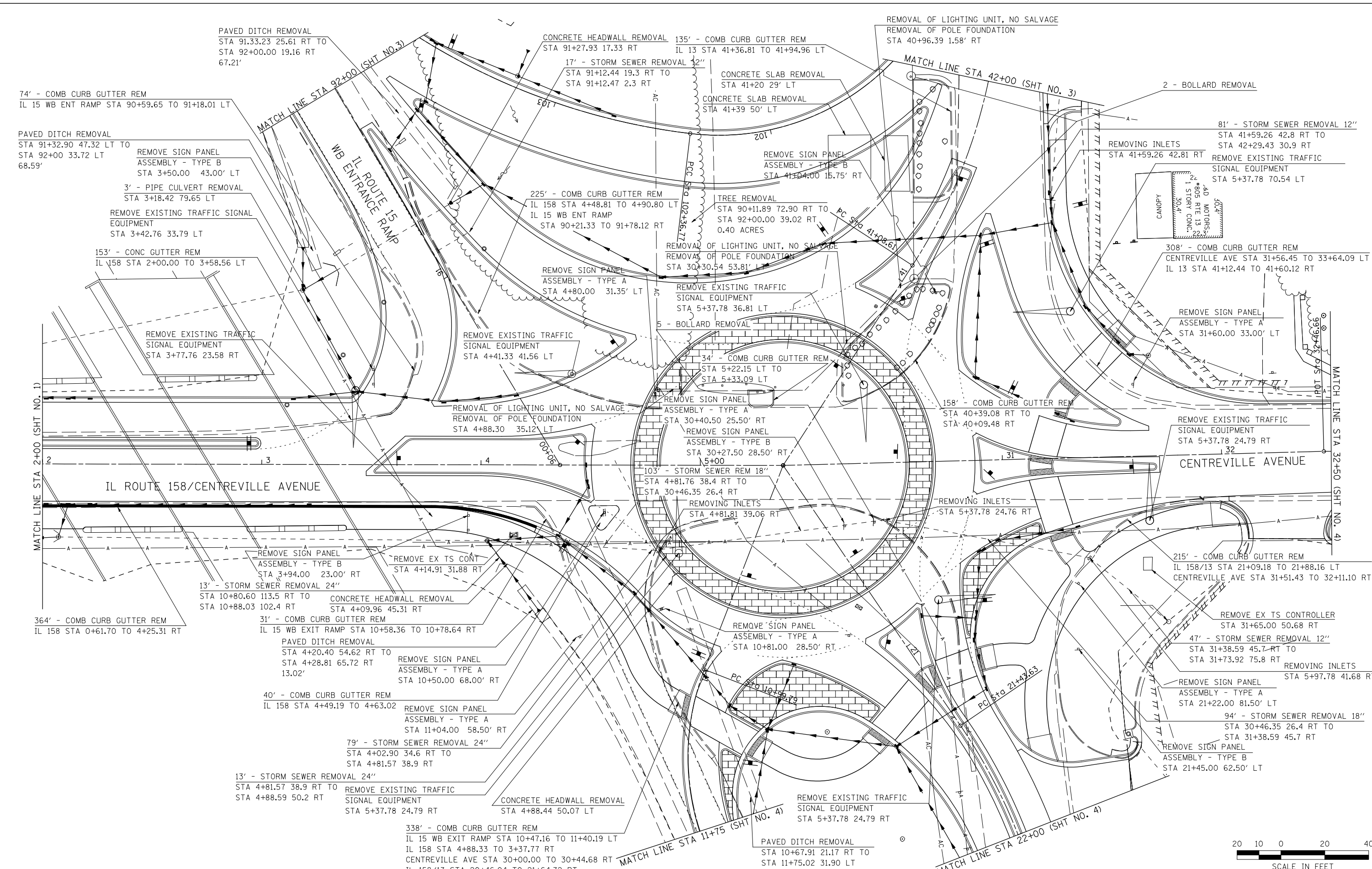
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**HORNER & SHIRN, INC.**  
**ENGINEERS**

**REMOVAL DETAILS**  
 IL 158 / CENTERVILLE AVENUE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
①	135-N	ST. CLAIR	206	138
CONTRACT NO. 76D06				
ILLINOIS FED. AID PROJECT				

SCALE: 1" = 20'    SHEET NO. 1 OF 4 SHEETS    STA. 52+30.06 TO STA. 2+00.00



SCALE IN FEET  
 ① F.A.P. RTE 809 / F.A.U. RTE 9251 / F.A.U. RTE 9269

LAST SAVED = 3/20/2012  
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 DRAWN -  
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 CHECKED -  
 DATE -

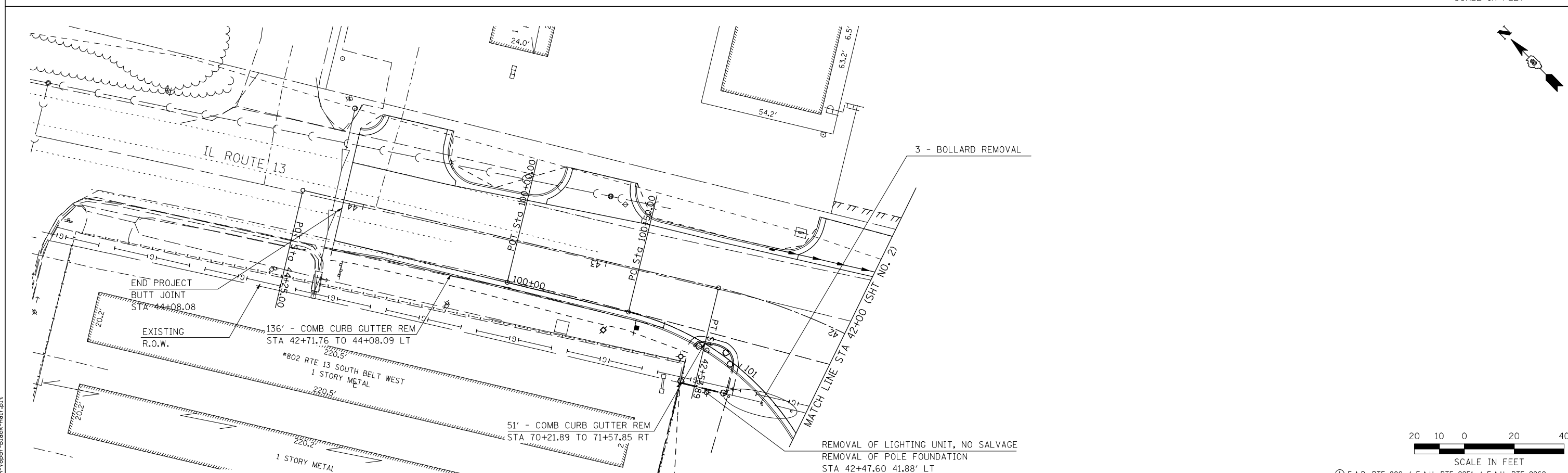
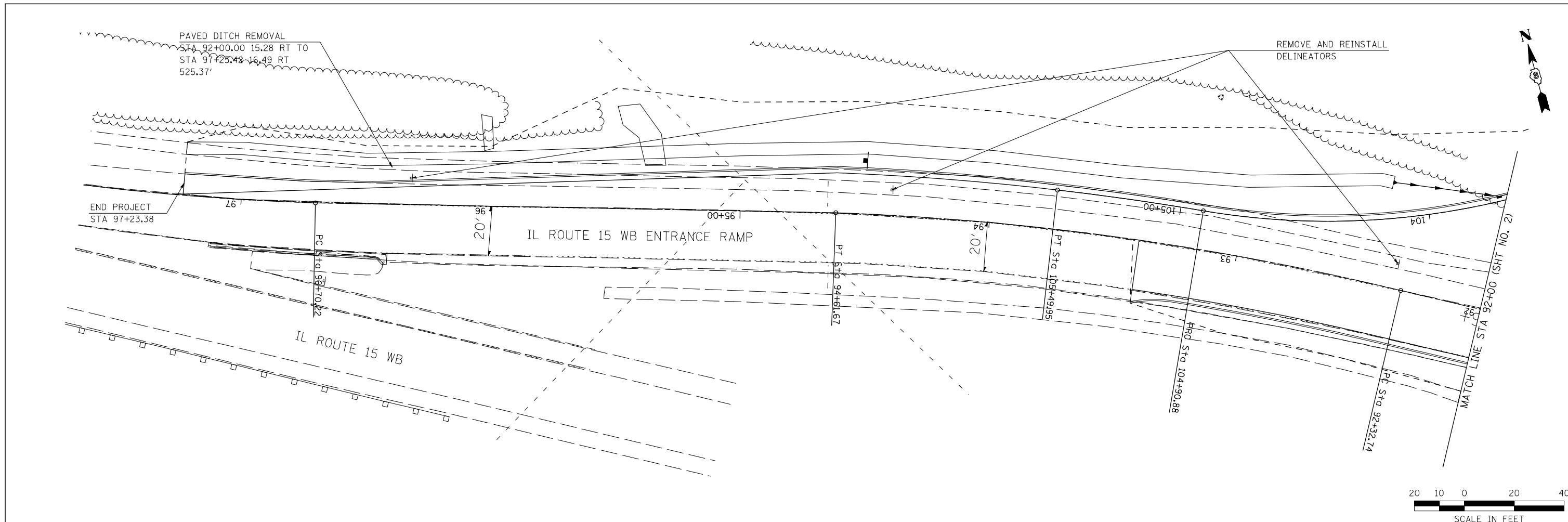
REVISED -  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



**REMOVAL DETAILS**  
 IL 158 / CENTREVILLE AVENUE  
 SCALE: 1" = 20'  
 SHEET NO. 2 OF 4 SHEETS  
 STA. 2+00.00 TO STA. 32+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
①	135-N	ST. CLAIR	206	139
				CONTRACT NO. D76DO
ILLINOIS FED. AID PROJECT				



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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**HORNER & SHIRIN, INC.**  
**ENGINEERS**

**REMOVAL DETAILS**  
 IL 15 WESTBOUND ENTRANCE RAMP & IL 13 WEST LEG

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
①	135-N	ST. CLAIR	206	140
CONTRACT NO. 76D06				
ILLINOIS FED. AID PROJECT				

SCALE: 1" = 20'    SHEET NO. 3 OF 4 SHEETS    STA.    TO STA.



REMOVE SIGN PANEL ASSEMBLY-TYPE A  
STA 11+94.00 7.75' RT

MATCH LINE STA 11+75 (SHT NO. 2)

PT Sta 11+87.85

REMOVE SIGN PANEL-TYPE 1  
STA 11+93.00 24.00' LT  
(WRONG WAY)

PAVED DITCH REMOVAL  
STA 11+75.00 27.30 LT TO  
STA 12+29.86 27.24 LT  
51.68'

SIGN PANEL ASSEMBLY  
TO REMAIN IN PLACE

MATCH LINE STA 22+00 (SHT NO. 2)

END PROJECT  
STA 12+60.00

IL ROUTE 15 WB EXIT RAMP

POT Sta 14+00.00

END PROJECT  
STA 24+05.55

IL ROUTE 158/13

PRC Sta 22+45.55

222' - COMB CURB GUTTER REM  
STA 22+17.02 TO 24+05.55 LT

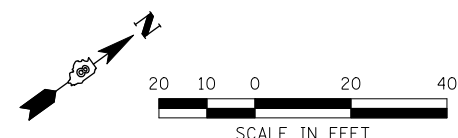
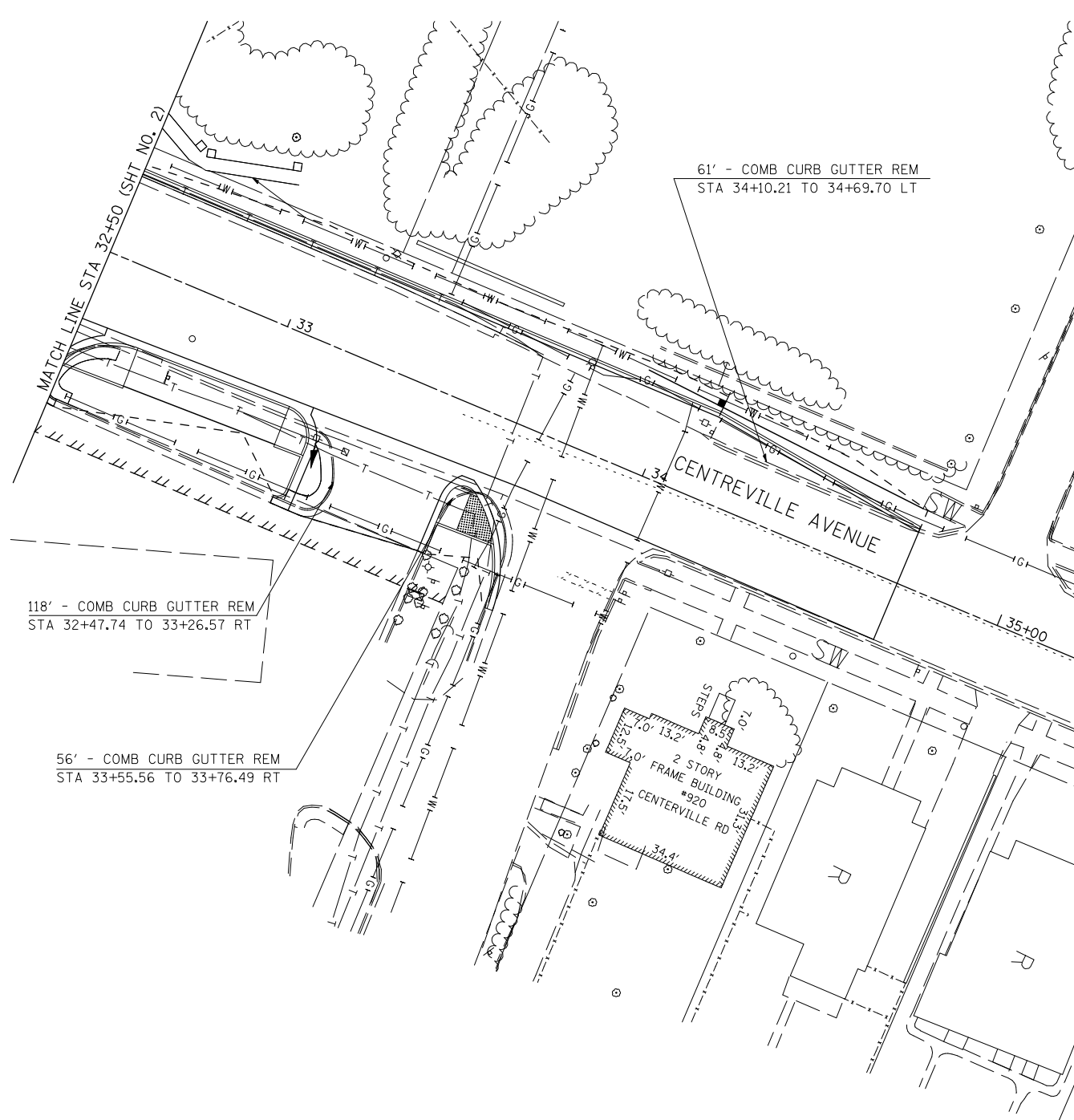
SIGN PANEL ASSEMBLY  
REMOVE AND REINSTALL

7' - COMB CURB GUTTER REM  
STA 23+98.83 TO 24+05.55 RT

118' - COMB CURB GUTTER REM  
STA 32+47.74 TO 33+26.57 RT

56' - COMB CURB GUTTER REM  
STA 33+55.56 TO 33+76.49 RT

61' - COMB CURB GUTTER REM  
STA 34+10.21 TO 34+69.70 LT



LAST SAVED = 2/20/2012  
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PLOT DATE = 3/20/2012 4:13:00 PM			

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HORNER &  
SHIRIN, INC.  
ENGINEERS

SCALE: 1" = 20'

SHEET NO. 4 OF 4 SHEETS

REMOVAL DETAILS

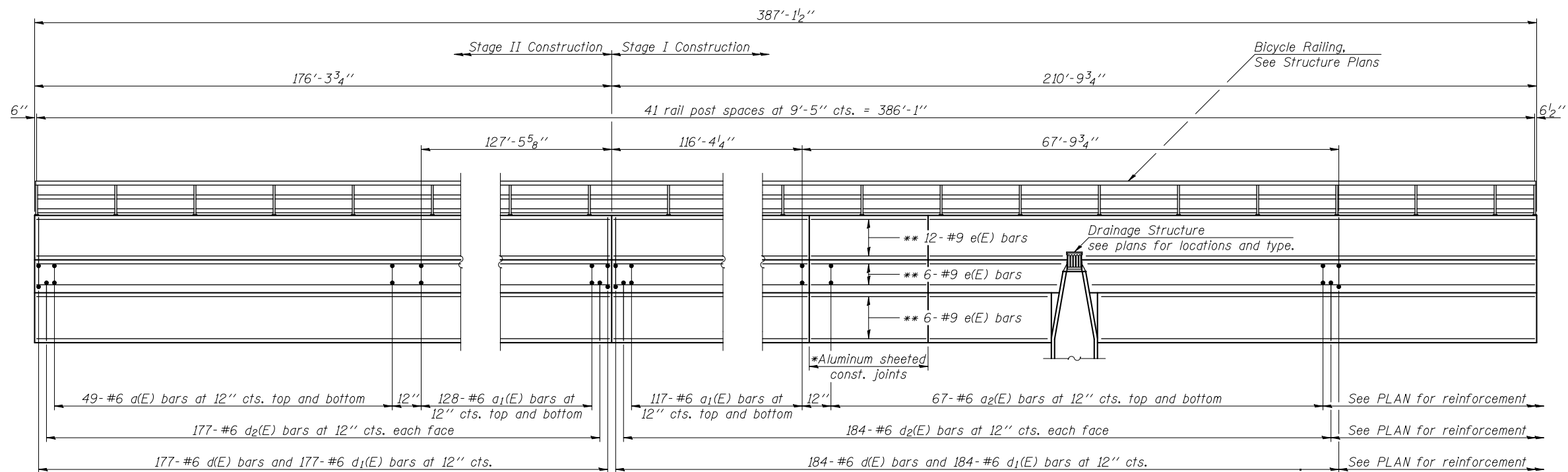
IL 15 WESTBOUND EXIT RAMP, IL 13 EAST LEG  
& IL 158 / CENTREVILLE AVENUE

STA. TO STA.

F.A.P. RTE 809 / F.A.U. RTE 9251 / F.A.U. RTE 9269

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
①	135-N	ST. CLAIR	206	141
CONTRACT NO. 76D06				

ILLINOIS FED. AID PROJECT



**ELEVATION**

(Horizontal dimensions shown are along the back face of barrier wall)

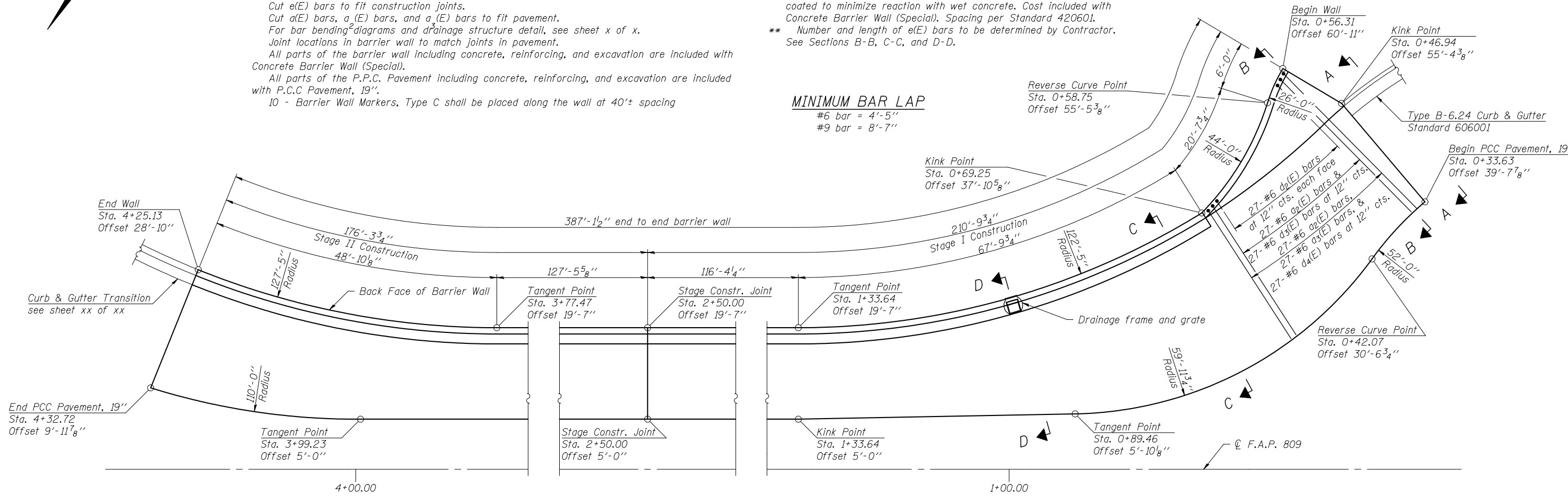
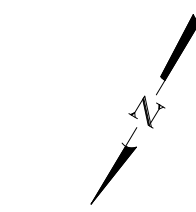
**Notes:**

- For additional dimensions and reinforcement details, see View A-A, Section B-B, Section C-C, and Section D-D on sheet x of x.
- Cut e(E) bars to fit construction joints.
- Cut a(E) bars, a<sub>1</sub>(E) bars, and a<sub>2</sub>(E) bars to fit pavement.
- For bar bending diagrams and drainage structure detail, see sheet x of x.
- Joint locations in barrier wall to match joints in pavement.
- All parts of the barrier wall including concrete, reinforcing, and excavation are included with Concrete Barrier Wall (Special).
- All parts of the P.C.C. Pavement including concrete, reinforcing, and excavation are included with P.C.C. Pavement, 19".
- 10 - Barrier Wall Markers, Type C shall be placed along the wall at 40'± spacing

- \* 1/8" Aluminum sheet according to ASTM B 209 alloy 3003-H14, coated to minimize reaction with wet concrete. Cost included with Concrete Barrier Wall (Special). Spacing per Standard 420601.
- \*\* Number and length of e(E) bars to be determined by Contractor. See Sections B-B, C-C, and D-D.

**MINIMUM BAR LAP**

- #6 bar = 4'-5"
- #9 bar = 8'-7"



**PLAN**

LAST SAVED = 2/20/2012  
 PEN TABLE = V8-H4-1414  
 PLOT DRIVER = TR-18pdf-Block-Half.plt

FILE NAME =	USER NAME = elagemann	DESIGNED K.A. Klues	REVISED -
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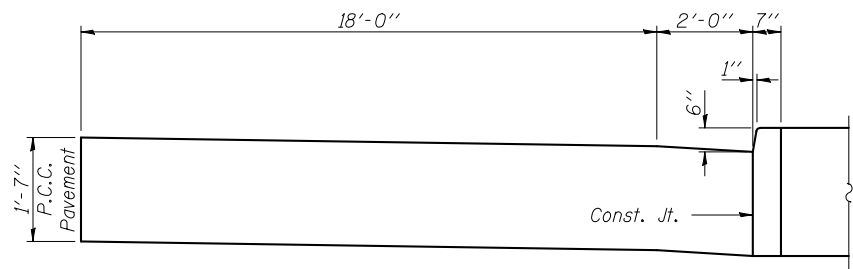
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



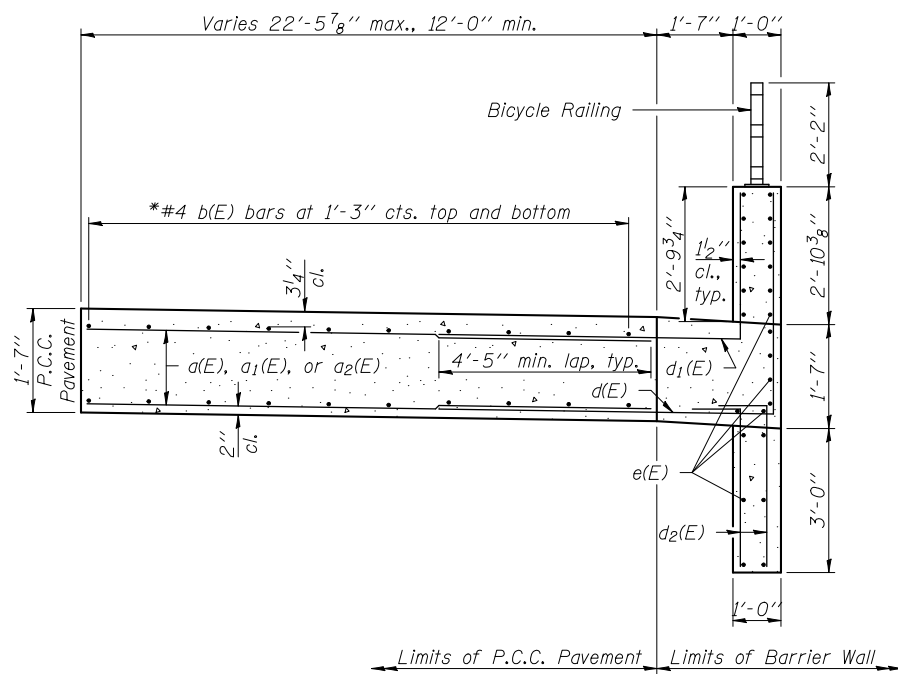
**BARRIER WALL DETAILS**  
IL 158 / CENTERVILLE AVENUE

SCALE: NONE SHEET NO. 1 OF 2 SHEETS STA. TO STA.

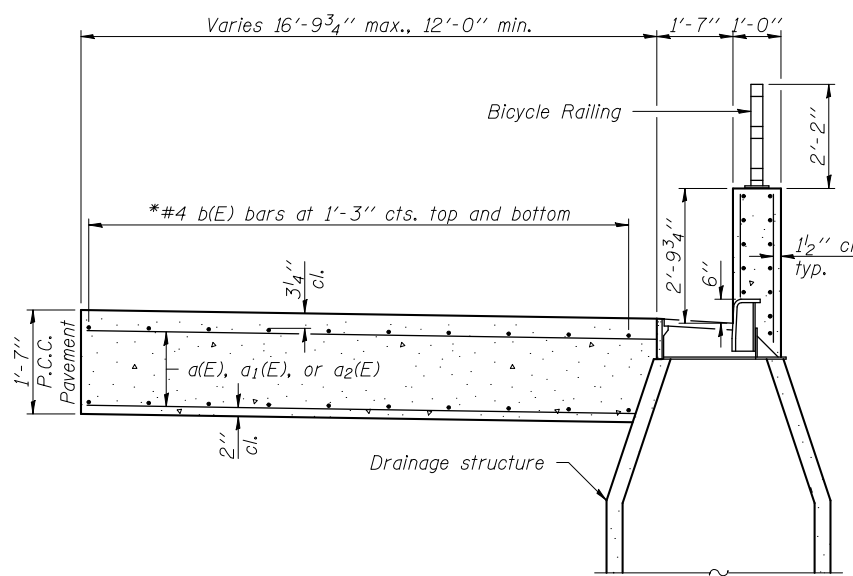
F.A.P. RTE 809 / F.A.U. RTE 9269			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
①	135-N	ST. CLAIR	206
			SHEET NO. 142
CONTRACT NO. 76D06			
ILLINOIS FED. AID PROJECT			



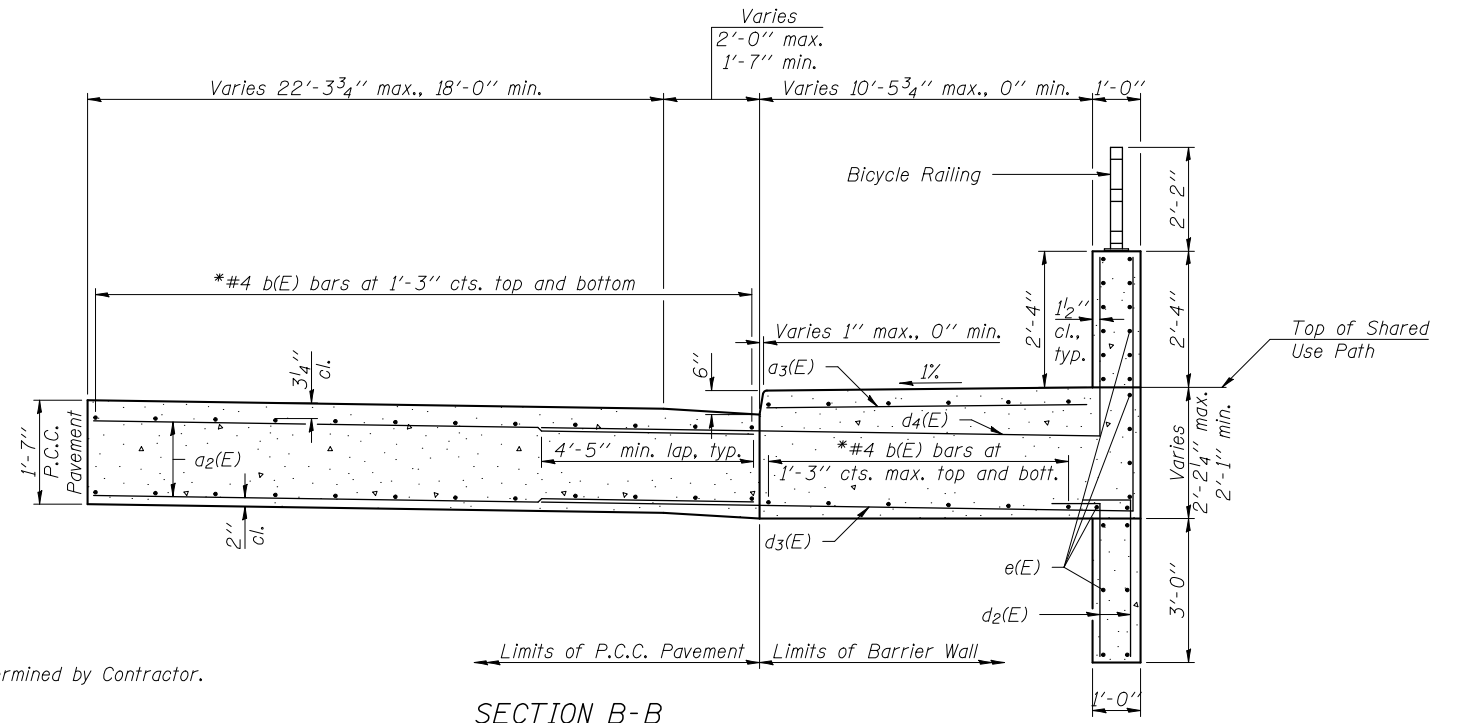
VIEW A-A



SECTION C-C

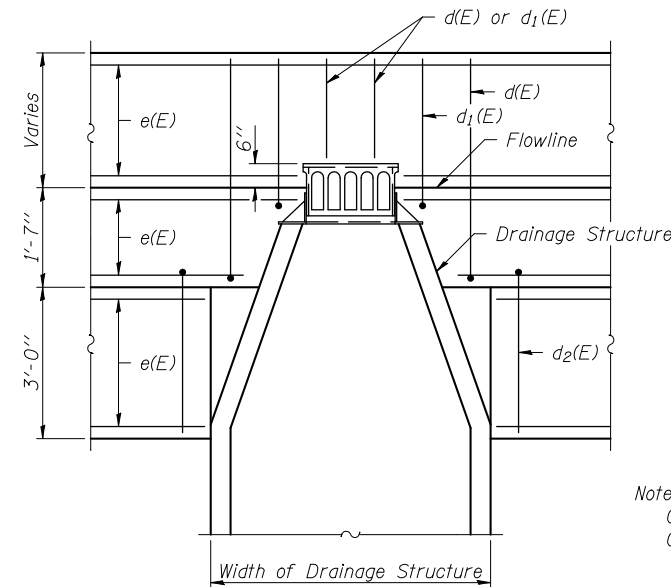


SECTION D-D



SECTION B-B

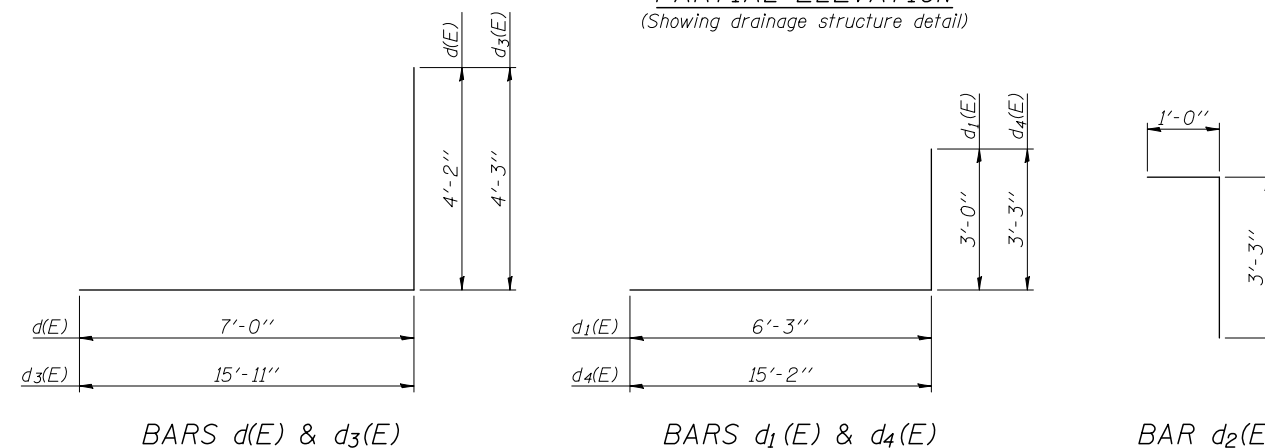
\* Number and length of b(E) bars to be determined by Contractor.



PARTIAL ELEVATION  
(Showing drainage structure detail)

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

Notes:  
Cut e(E) bars, d(E) bars, and d1(E) bars in field to fit drainage structure.  
Cut d3(E) bars and d4(E) bars in field to fit wall height.



BAR LIST

Bar	No.	Size	Length	Shape
a(E)	98	#6	17'-5"	—
a1(E)	490	#6	11'-9"	—
a2(E)	188	#6	22'-0"	—
a3(E)	27	#6	10'-3"	—
d(E)	361	#6	11'-2"	┘
d1(E)	361	#6	9'-3"	┘
d2(E)	776	#6	4'-3"	┘
d3(E)	27	#6	20'-2"	┘
d4(E)	27	#6	18'-5"	┘

LAST SAVED = 2/20/2012  
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PLOT DRIVER = TR:\Bpdf-Block-Half.plt

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		CHECKED E.M. Lagemann	REVISED -
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PLOT DATE = 3/20/2012 4:52:54 PM			

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HORNER &  
SHIRIN, INC.  
ENGINEERS

BARRIER WALL DETAILS  
IL 158 / CENTERVILLE AVENUE

SCALE: NONE SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE 809 / F.A.U. RTE 9269

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
①	135-N	ST. CLAIR	206	143
CONTRACT NO. 76D06				

ILLINOIS FED. AID PROJECT

Bench Mark: RR spike in Northwest side of power pole on the East corner of IL Rte. 158 and Whiskey Road, just Southwest of IL Rte. 15. Elev. 490.27.

Existing Structure: S.N. 082-0400 was built around 1900 as S.B.I. Route 158 Section 135BY, and widened in 1958 as S.B.I. Route 158 Section 135BY. The existing structure consists of one span, 16' long, 57'-4" wide out-to-out reinforced concrete slab with bituminous overlay, and no skew. The substructure consists of closed reinforced concrete abutments founded on spread footings with attached wingwalls. Structure carries IL 158 over an Unnamed tributary to Richland Creek. The existing pavement is 26'-4" wide with a 7'-10" right shoulder and a 16'-10" left shoulder. Staged construction shall be used during construction.

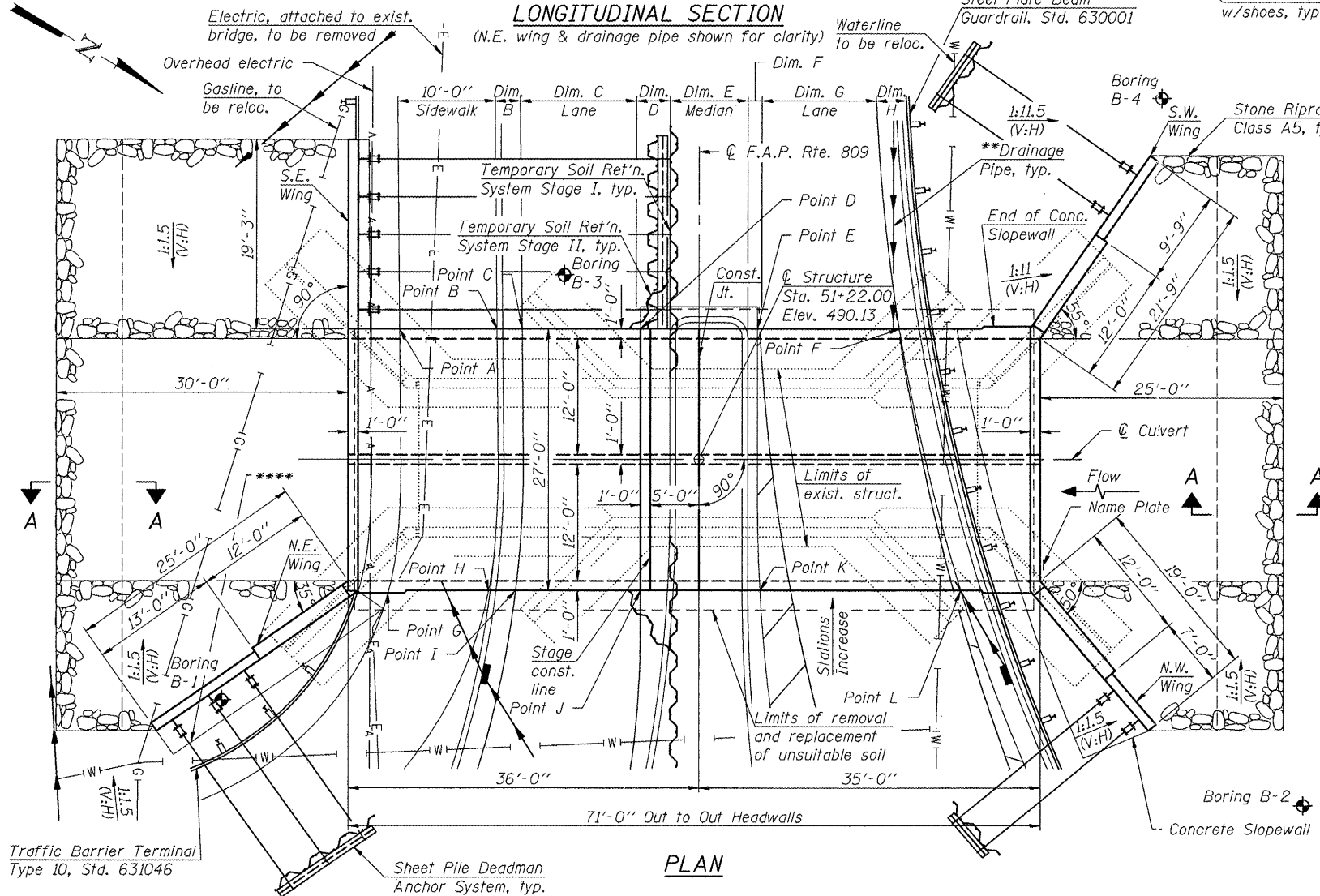
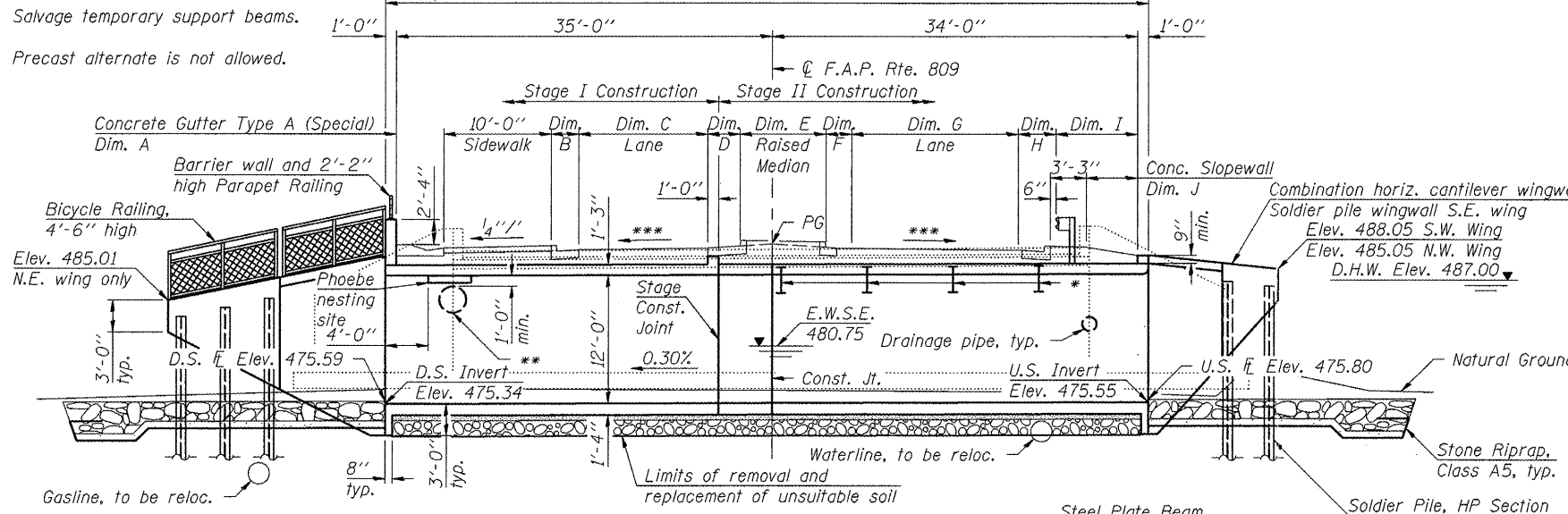


TABLE OF VARIABLE DIMENSIONS

	Maximum	Minimum
Dim. A	4'-5"	3'-0"
Dim. B	2'-9 1/4"	2'-7"
Dim. C	12'-9 3/4"	12'-1 1/2"
Dim. D	3'-0"	2'-9 1/4"
Dim. E	8'-2 3/4"	8'-0"
Dim. F	4'-4 3/4"	1'-3"
Dim. G	16'-8 3/4"	14'-2 3/4"
Dim. H	3'-11 3/4"	3'-2 1/2"
Dim. I	10'-3 3/4"	3'-10 5/8"
Dim. J	7'-6 3/4"	1'-1 5/8"

Note: Dim. B & Dim. H include Standard B-6.24 Curb and Gutter.

INDEX OF SHEETS

- General Plan and Elevation
- General Data
- Temporary Support System
- Temporary Soil Retention System
- Stage Construction Details
- Stage Construction Sequence
- Temporary Concrete Barrier
- Culvert Plan
- Culvert Elevation and Details
- Wingwall Details
- Bicycle Railing Details
- Steel H-Pile Details
- Bar Splicer Details
- Boring Logs

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

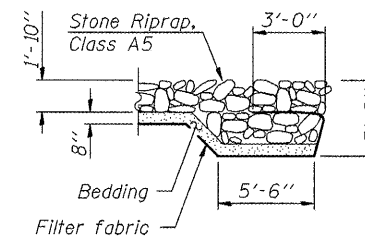
DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications with 2010 Interims

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi  
 fy = 60,000 psi (Reinforcement)  
 fy = 50,000 psi (M270 Grade 50, Soldier Piles, Deadman Wale, Deadman Sheet Piles, and Tie Rod Assemblies)



- \* Temporary Support Beams
- \*\* See roadway plans for drainage pipe size, location, and invert elevations.
- \*\*\* See roadway warping plans.
- \*\*\*\* Type A Gutter, see Highway Standard 606101.

Notes:

S.E. Wingwall is designed for vehicle impact, TL-2.  
 For soldier pile and deadman layout, see sheet 13 of 20.  
 It shall be noted that the Sheet Pile Anchor System for the S.E. Wing may coincide with the Stage II Temporary Soil Retention System. At the Contractor's option, the Sheet Pile Anchor System for the S.E. Wing may be incorporated into the Stage II Temporary Soil Retention System. The elevations and minimum section modulus shown may be adjusted to suit the design of the Temporary Soil Retention System, but shall meet the design requirements of the Sheet Pile Anchor System as a minimum. Additional materials required shall be included with Temporary Soil Retention System.

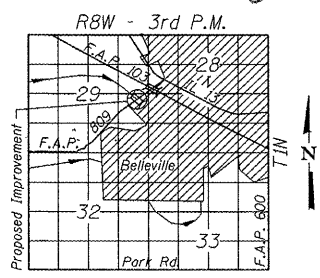
TABLE OF ROADWAY STATIONS AND OFFSETS

Point	Station	Offset
A	51+35.50	30'-8 1/2"
B	51+35.50	20'-8 1/2"
C	51+35.50	18'-1 1/2"
D	51+35.50	6'-0"
E	51+35.50	6'-0"
F	51+35.50	20'-6 3/4"
G	51+08.25	31'-10 5/8"
H	51+08.50	21'-7"
I	51+08.50	18'-9 3/4"
J	51+08.50	6'-0"
K	51+08.50	6'-3 1/8"
L	51+08.50	26'-10 3/8"

APPROVED For Structural Adequacy Only

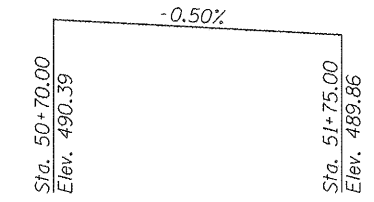
Eric Lagemann (P.E.)  
 Engineer of Bridges & Structures

Eric Lagemann 5/10/12  
 Expires 11/30/2012 Date



PROFILE GRADE

(Along F.A.P. Rte. 809)



GENERAL PLAN & ELEVATION  
 IL 158 OVER UNNAMED CREEK  
 F.A.P. RTE. 809 - SECTION 135-N  
 ST. CLAIR COUNTY  
 STATION 51+22.00  
 STRUCTURE NO. 082-2045

FILE NAME = I:\0906600\0906600\Cad\SV\Plans\0822045-76006.dgn  
 USER NAME = kakluus  
 PLOT SCALE =  
 PLOT DATE = 5/10/2012

DESIGNED - K.A. Klues  
 CHECKED - E.M. Lagemann  
 DRAWN - I. KrInitskly  
 CHECKED - K.A. Klues

REVISIED -  
 REVISIED -  
 REVISIED -  
 REVISIED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
809	135-N	ST. CLAIR	206	144
			CONTRACT NO. 76006	
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated  
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.

Temporary support beams for slab shall be installed for Stage I traffic, and shall be placed before Stage I removal.

The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

The Rockfill shall be capped with 6 in. of CA6 and satisfy the Standard Specifications unless otherwise indicated in the Special Provisions. The cost of the capping material shall be included in the pay item for "Rock Fill".

Excavation for soldier pile retaining walls and their deadmen shall be included in the pay item for "Concrete Box Culverts".

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Stone Riprap, Class A5	Sq. Yd.	366
Filter Fabric	Sq. Yd.	606
Removal of Existing Structures	Each	1
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	160
Concrete Structures	Cu. Yd.	17.8
Protective Coat	Sq. Yd.	17
Furnishing and Erecting Structural Steel	Pound	8,630
Stud Shear Connectors	Each	88
Reinforcement Bars	Pound	45,450
Reinforcement Bars, Epoxy Coated	Pound	18,650
Bar Splicers	Each	328
Bicycle Railing	Foot	23
Parapet Railing	Foot	44
Slope Wall 4 Inch	Sq. Yd.	23
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	314.6
Furnishing Soldier Piles (HP Section)	Foot	396
Rock Fill	Cu. Yd.	160
Temporary Soil Retention System	Sq. Ft.	669
Temporary Support System	L Sum	1
Driving Soldier Piles	Foot	396
Permanent Steel Sheet Piling	Sq. Ft.	519

**WATERWAY INFORMATION**

Drainage Area = 4.6 Sq. Mi. Low Grade Elev. 490.06 @ Sta. 51+75.00

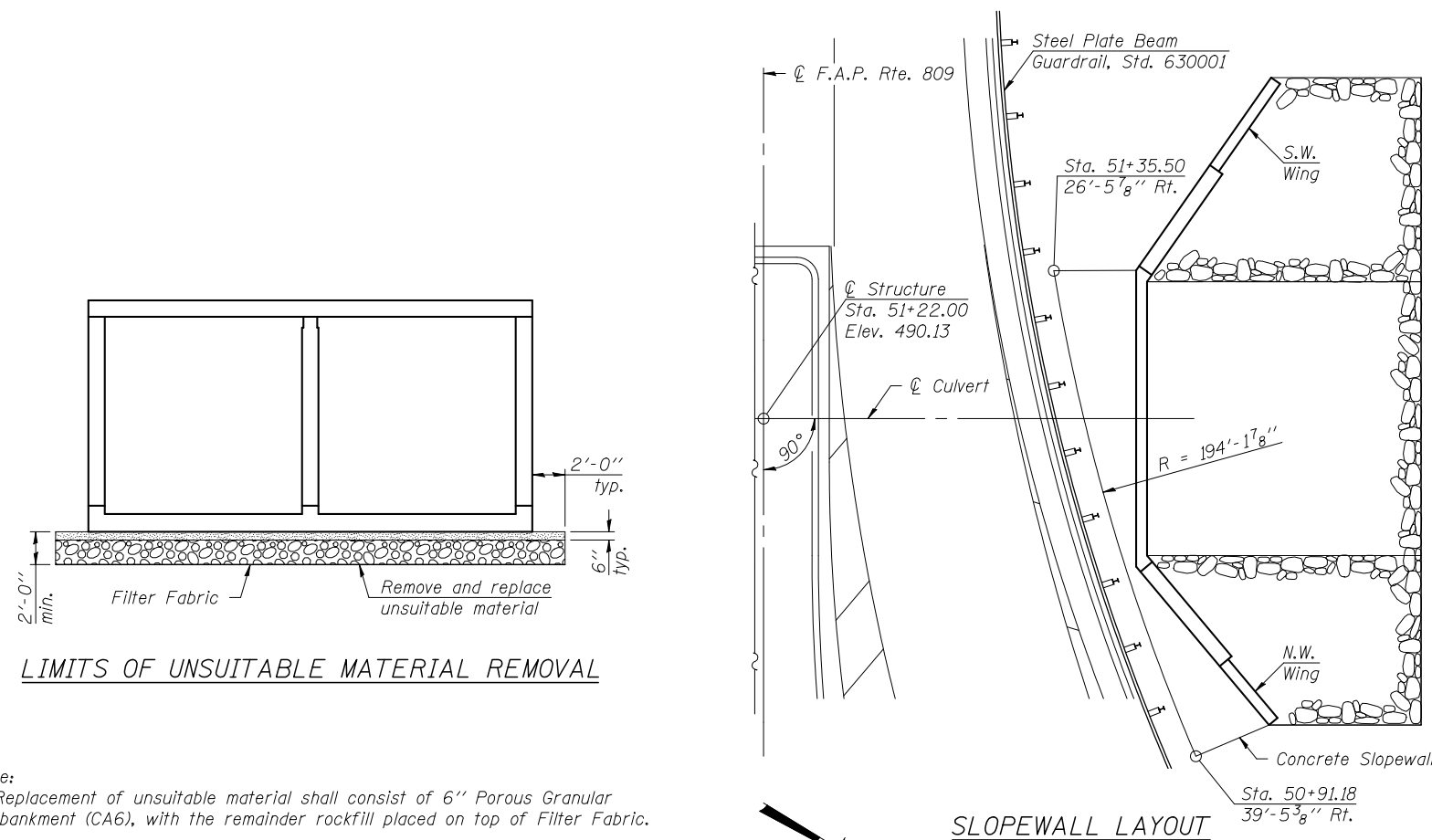
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Min. Calc.	10	1,291	123	221	484.99	1.65	0.00	486.64	484.99
Overtopping	25	1,764	145	---	486.49	3.65	---	489.89	---
Design	50	2,138	152	269	487.00	3.34	0.32	490.34	487.32
Base	100	2,529	161	282	487.64	3.06	0.78	490.70	488.42
Max. Calc.	235	3,050	169	282	488.33	2.69	1.72	491.02	490.05

**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevation (ft.)	D.S. Invert	U.S. Invert
	471.34	471.55

STATION 51+22.00  
 BUILT 2011 BY  
 STATE OF ILLINOIS  
 F.A.P. RT. 809 SEC. 135-N  
 LOADING HL-93  
 STRUCTURE NO. 082-2045

**NAME PLATE**  
 See Std. 515001

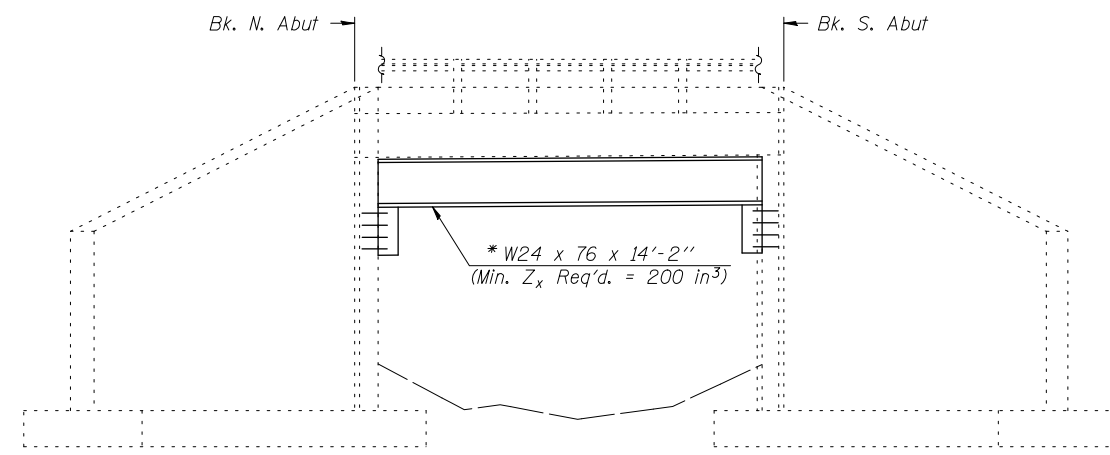


**SLOPEWALL LAYOUT**

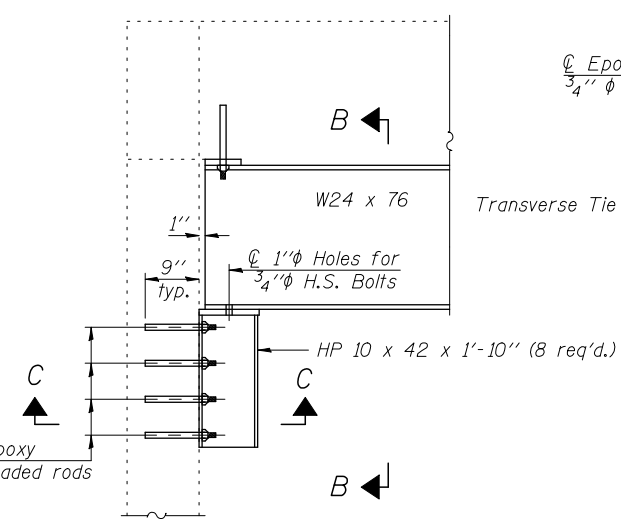
Note:  
 Slopewall shall be reinforced with welded wire fabric, 6 in. x 6 in. - W4.0 x W4.0, weighting 58 lbs. per 100 sq. ft.

Note:  
 Replacement of unsuitable material shall consist of 6" Porous Granular Embankment (CA6), with the remainder rockfill placed on top of Filter Fabric.

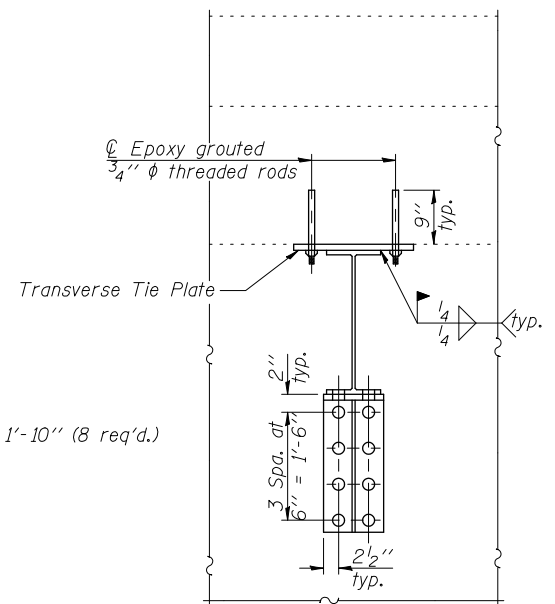
**LIMITS OF UNSUITABLE MATERIAL REMOVAL**



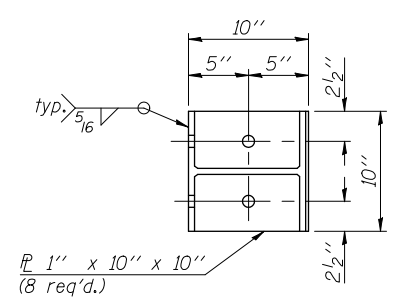
**ELEVATION**



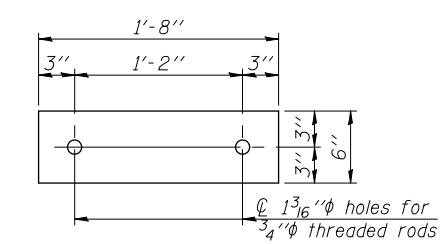
**SECTION A-A**



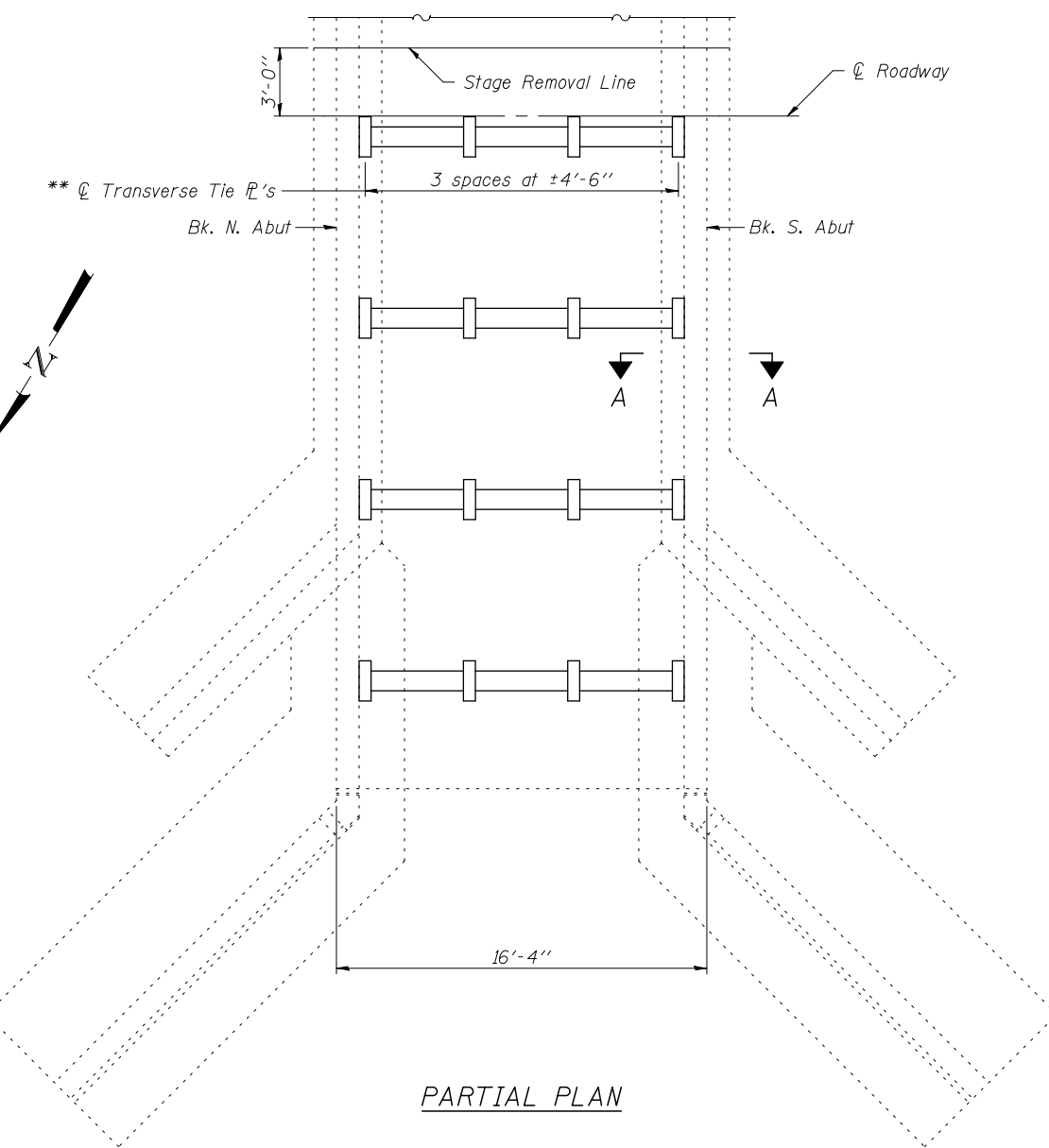
**SECTION B-B**



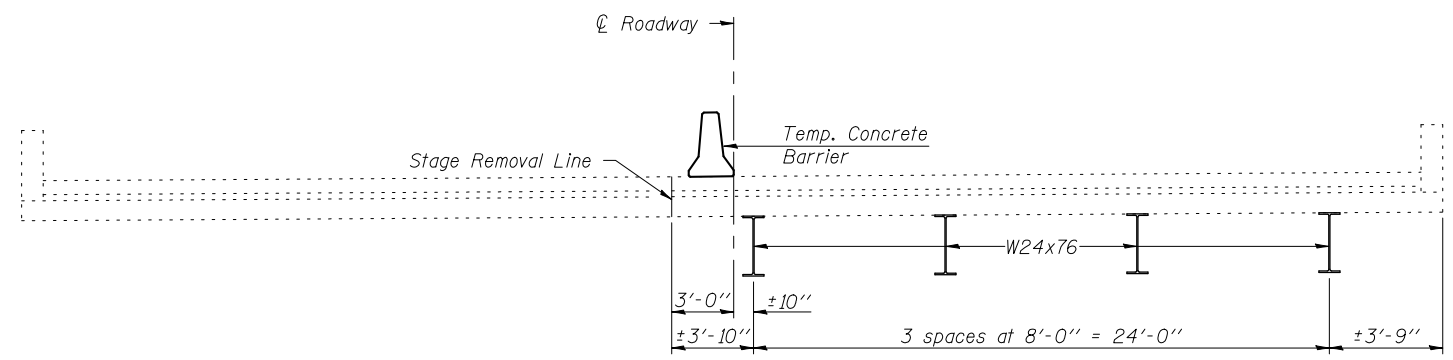
**SECTION C-C**



**TRANSVERSE TIE PLATE**  
3/4" x 6" x 1'-8" (16 req'd.)



**PARTIAL PLAN**

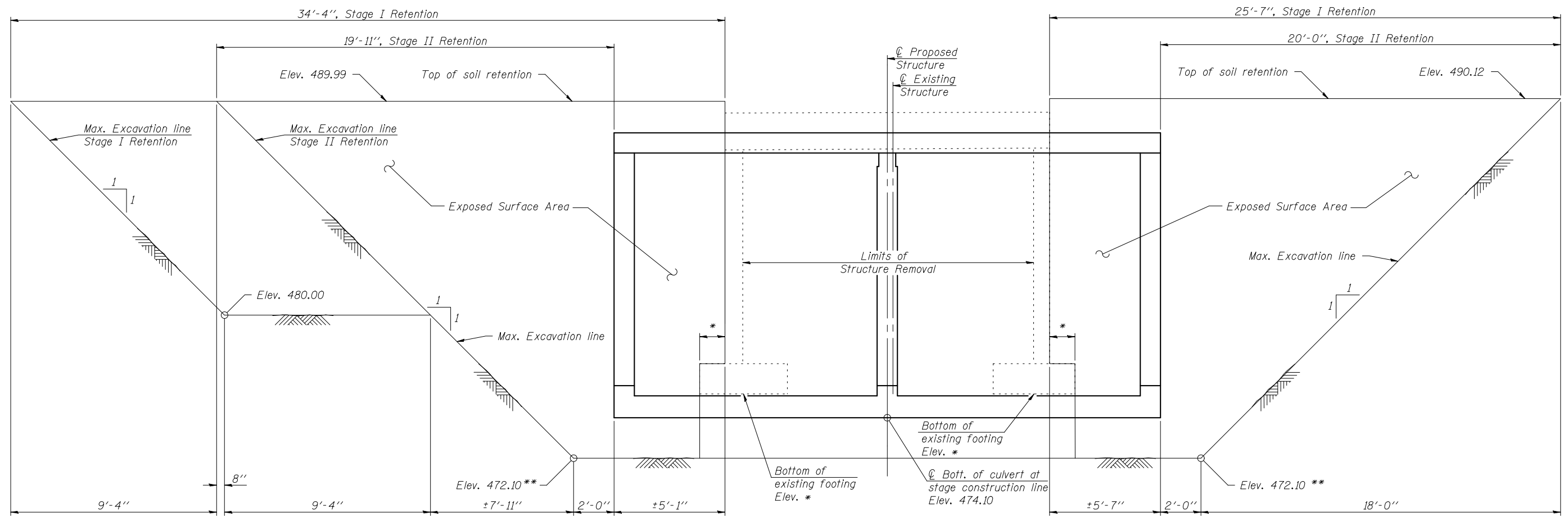


**CROSS SECTION**  
(Looking South)

**GENERAL NOTES**

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts 3/4 in.  $\phi$ , holes 15/16 in.  $\phi$ , unless otherwise noted. Calculated weight of Structural Steel = 5,730 AASHTO M 270 Grade 36. Calculated weight is an estimate. The nominal beam depth of alternate sections shall not be greater than 27". No additional payment will be made if the Contractor elects to use other sections. The cost of structural steel shall be included with Temporary Support System. No field welding is permitted except as specified in the contract documents. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work. See Section 584 of the Standard Specifications for epoxy grouting of threaded rods. The cost of epoxy grouted threaded rods shall be included with Temporary Support System. Contractor has the option of using used steel. See Special Provision.

\* Contractor is to verify beam length prior to ordering material. Other sections meeting the plastic section modulus requirements shown may be allowed subject to approval by the Bureau of Bridges and Structures.  
\*\* Place additional shims at midpoints between tie PL's. Securely weld shims to top flange of support beam. Minimum shim size is 6" x flange width. Spacing may be adjusted to miss adjacent transverse tie PL's.

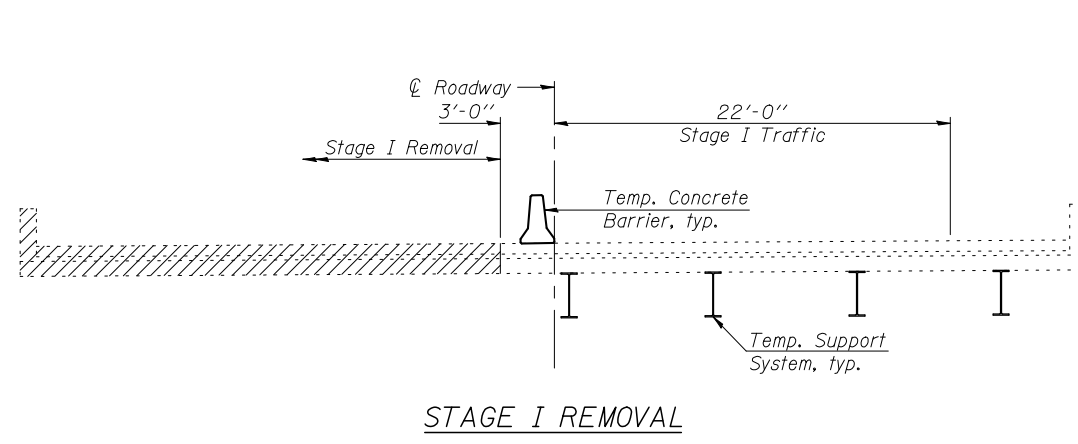


**ELEVATION**  
(Looking Upstream)

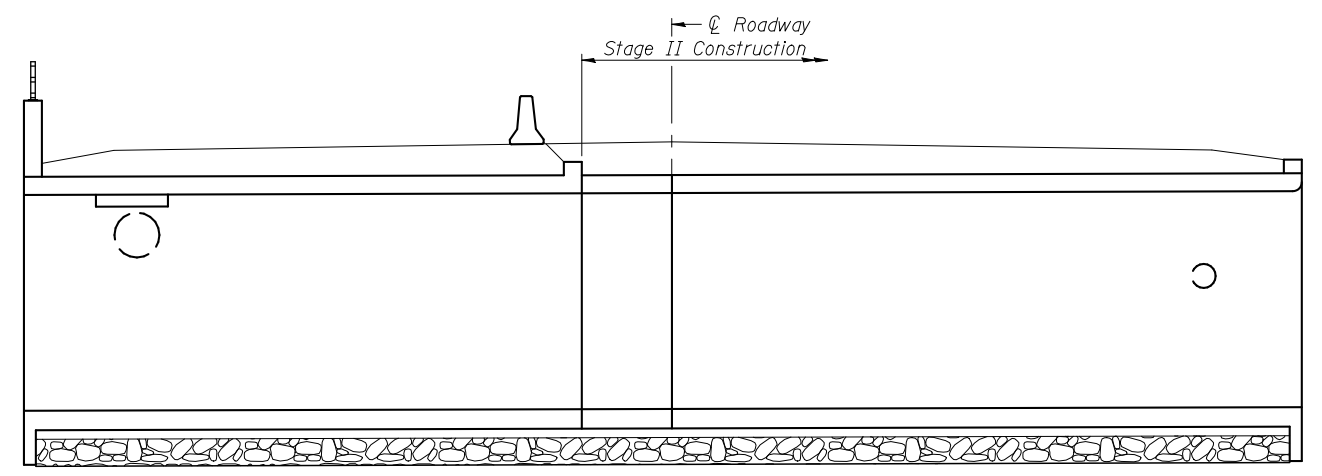
**Note:**  
A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

- \* Existing plans for substructure dimensions are inconclusive. It is the Contractor's responsibility to determine existing footing dimensions and elevations.
- \*\* Elevation may vary due to subsurface conditions encountered in the field, as determined by the Engineer.

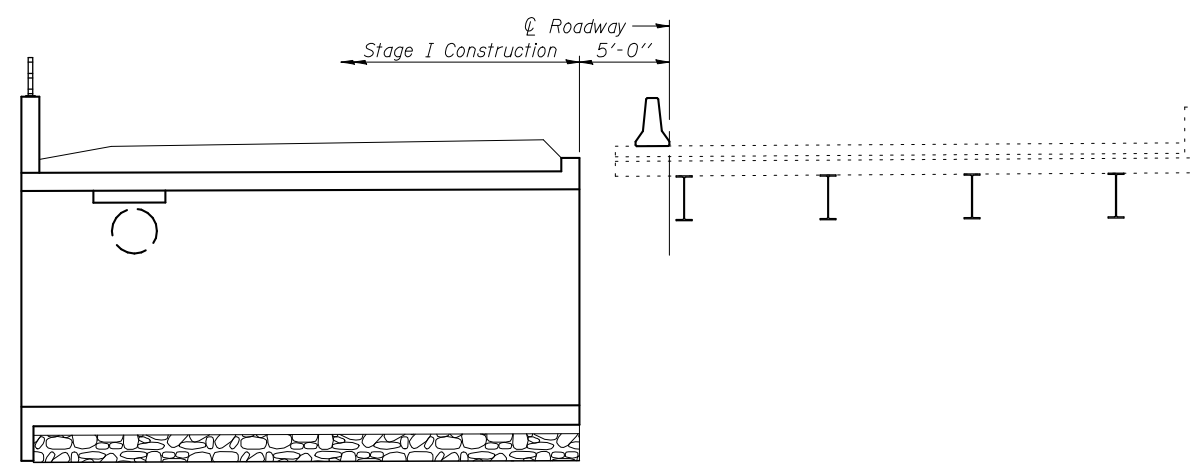
FILE NAME = H:\0906600\0906603\Cad\SV... <b>HORNER &amp; SHIFRIN, INC</b> <b>ENGINEERS</b>	DESIGNED - K.A. Klues	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY SOIL RETENTION SYSTEM</b> <b>STRUCTURE NO. 082-2045</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	USER NAME = kaklues PLOT SCALE = PLOT DATE = 5/1/2012	CHECKED - E.M. Lagemann DRAWN - I. Krinitskiy CHECKED - E.M. Lagemann			REVISED - REVISED - REVISED -	809	135-N	ST. CLAIR	206
				SHEET NO. 4 OF 20 SHEETS	CONTRACT NO. 76D06				
				ILLINOIS FED. AID PROJECT					



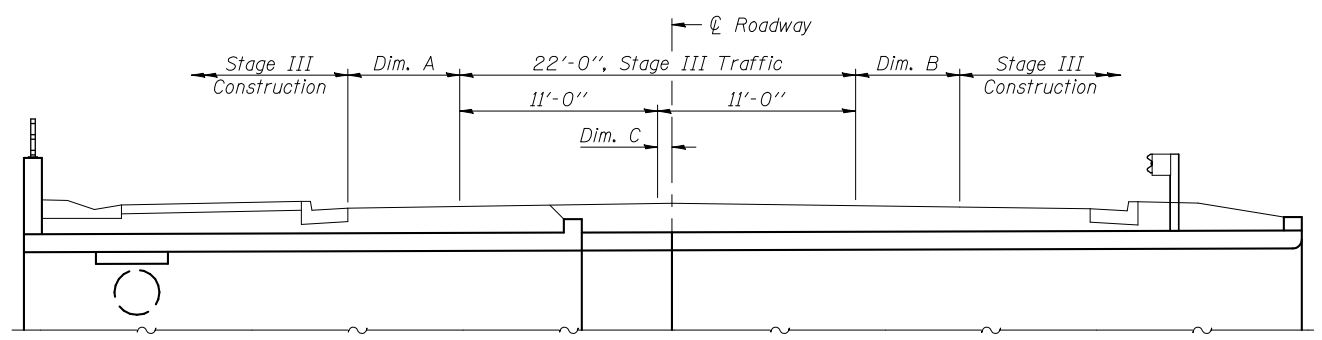
STAGE I REMOVAL



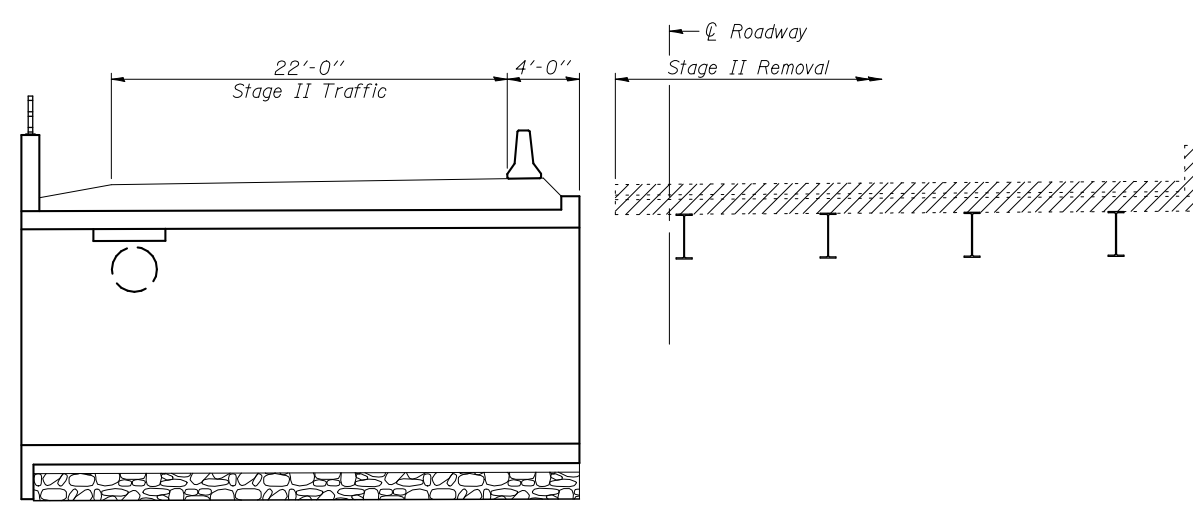
STAGE II CONSTRUCTION



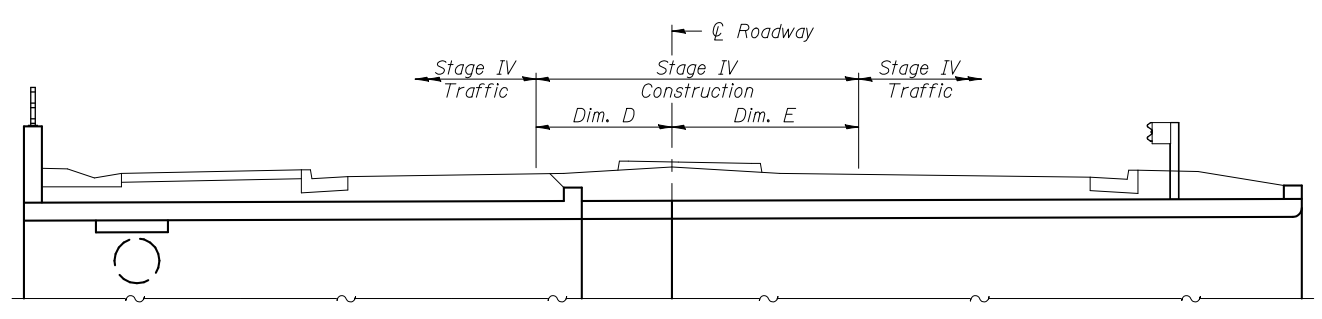
STAGE I CONSTRUCTION



STAGE III CONSTRUCTION



STAGE II REMOVAL



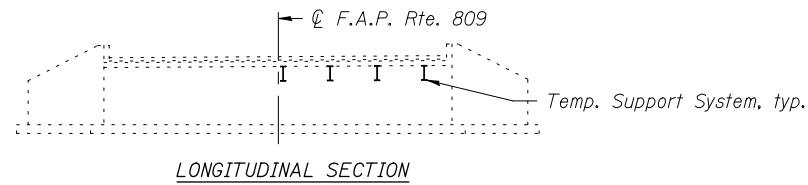
STAGE IV CONSTRUCTION

Notes:  
 For Temporary Concrete Barrier Details, see sheet 8 of 20.  
 For Temporary Support System Details, see sheet 3 of 20.  
 All Staging cross sections are looking South.  
 Hatched area indicates Removal of Existing Structures.  
 For quantity of Temporary Concrete Barrier, see roadway plans.  
 Culvert Stages III and IV coincide with South Roundabout Stages B1 and B3, respectively, see roadway plans.

TABLE OF VARIABLE DIMENSIONS

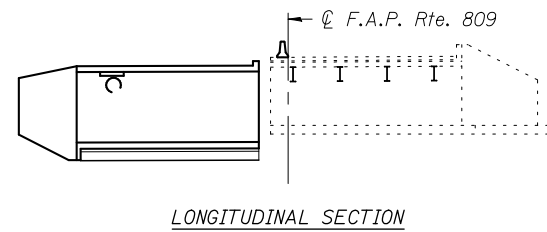
	Maximum	Minimum
Dim. A	6'-4"	6'-2"
Dim. B	5'-10 <sup>1</sup> / <sub>2</sub> "	5'-7 <sup>1</sup> / <sub>2</sub> "
Dim. C	9 <sup>1</sup> / <sub>2</sub> "	8 <sup>5</sup> / <sub>8</sub> "
Dim. D	7'-6 <sup>1</sup> / <sub>2</sub> "	7'-1 <sup>1</sup> / <sub>2</sub> "
Dim. E	10'-4 <sup>1</sup> / <sub>2</sub> "	7'-3 <sup>3</sup> / <sub>8</sub> "





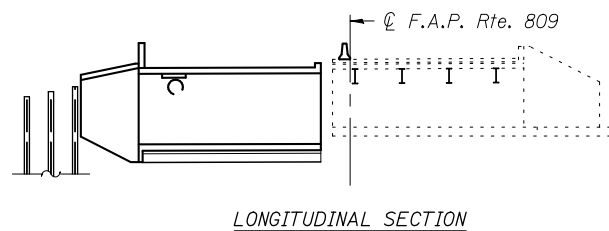
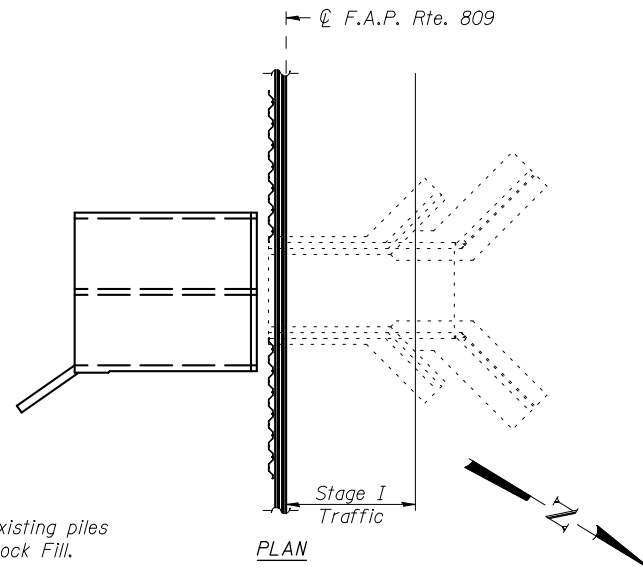
1. Erect Temporary Support System

**STAGE I CONSTRUCTION - SEQUENCE I**



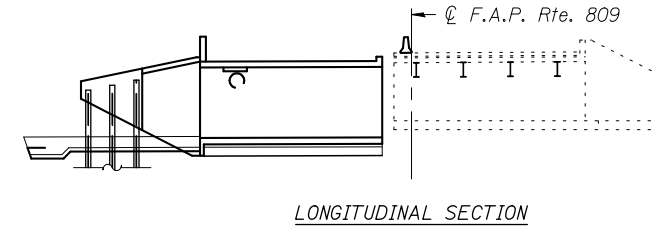
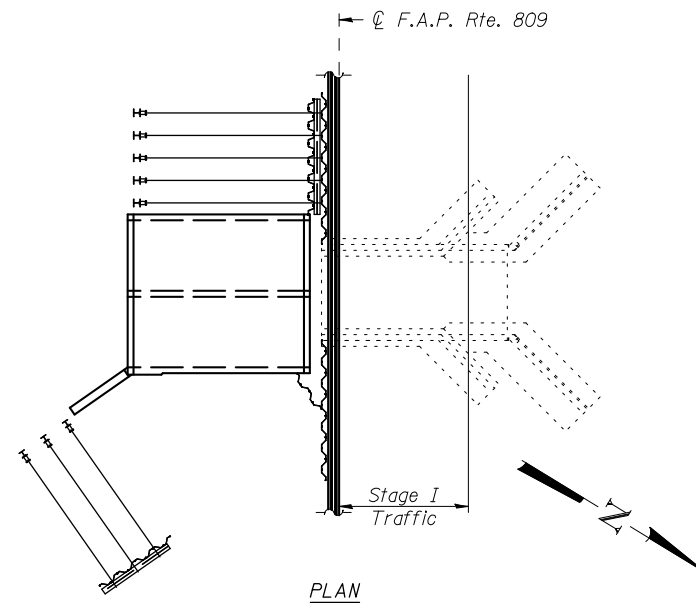
1. Remove existing structure. If piles are present, cut off existing piles located under proposed structure 2 feet below bottom of Rock Fill. Fill remaining voids with similar material as surrounding soil.
2. Construct culvert and attached wingwall to the top slab. Culvert shall be constructed to the invert elevations shown on sheet 10 of 20. Waterstops shall be cast in culvert wall and end of attached wingwalls.
3. Apply 500 psf preload to top slab of culvert. Culvert settlement shall be monitored. See Special Provisions.

**STAGE I CONSTRUCTION - SEQUENCE II**



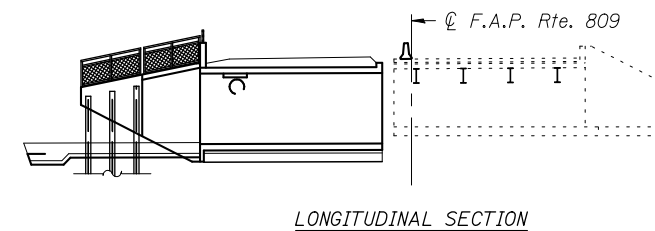
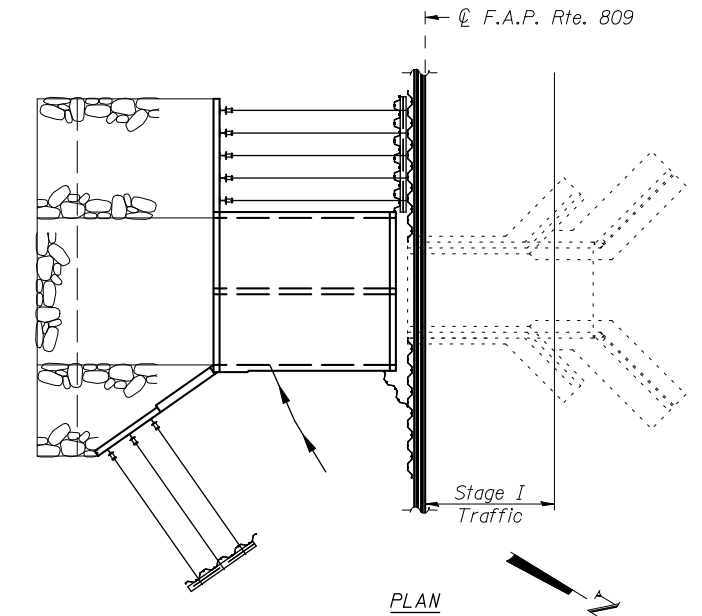
1. Remove preload.
2. Construct top of attached wingwall and barrier wall to the elevations shown on sheet 12 of 20.
3. Drive soldier pile into rock.
4. Backfill so deadmen can be installed.
5. Install soldier pile tie rods and deadmen.

**STAGE I CONSTRUCTION - SEQUENCE III**



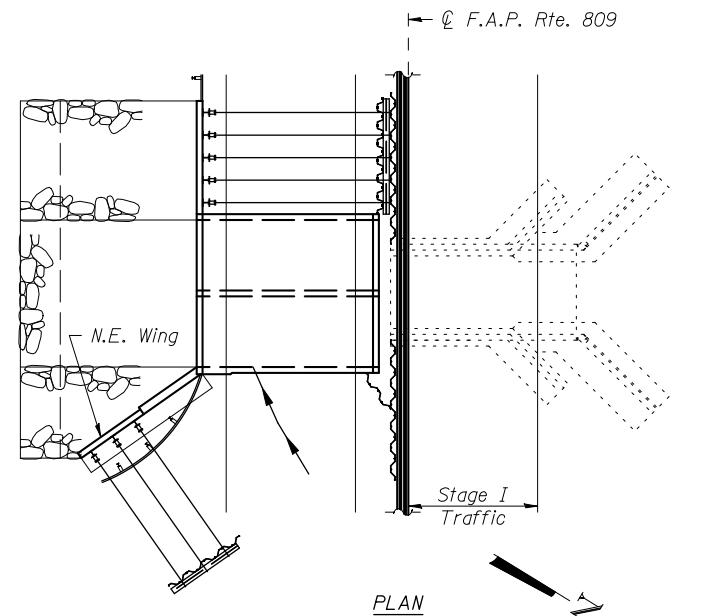
1. Construct soldier pile concrete facings to the elevations shown on sheet 12 of 20.
2. Backfill to the storm drainage pipe elevation.
3. Install storm drainage pipe thru culvert wall. See roadway plans for elevations.
4. Finish backfilling around culvert.
5. Install Riprap.

**STAGE I CONSTRUCTION - SEQUENCE IV**



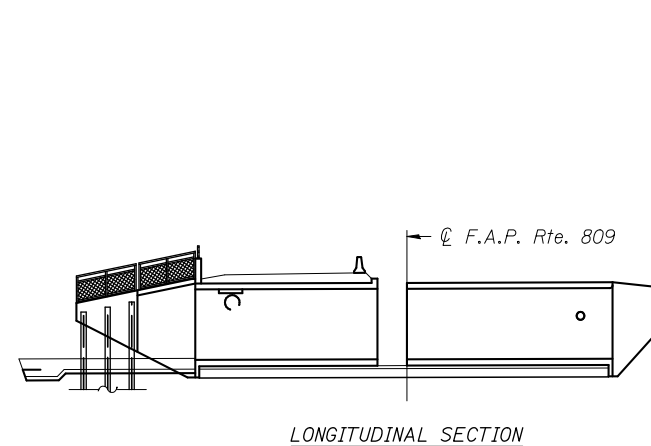
1. Construct Type A Gutter and Slope wall behind N.E. Wing.
2. Install Bicycle and Pedestrian Railings.
3. Construct temporary pavement.
4. Install Guardrail.

**STAGE I CONSTRUCTION - SEQUENCE V**



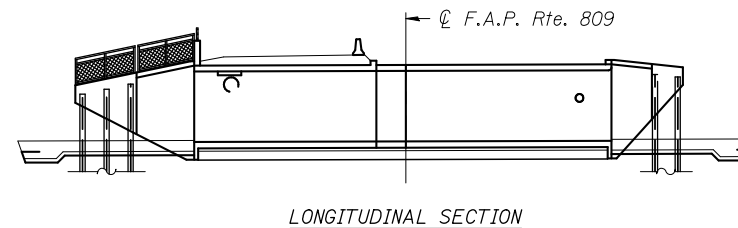
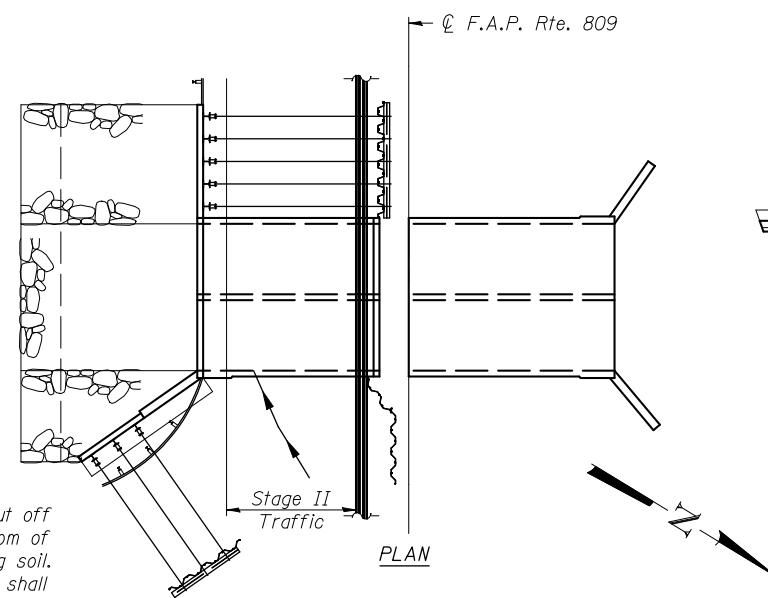
Notes:  
 For stage construction details not shown, see sheet 5 of 20.  
 It is estimated that Stage I of box construction will settle approximately 2.5 inches over the course of 14 days after preloading is applied. Box settlement shall be monitored and placement of the soldier pile wing facing, parapets, and pavement shall not be permitted until the remaining project settlement is expected to be less than 0.5 inches.  
 All longitudinal sections are looking South.  
 For waterstop details, see sheet 13 of 20.

FILE NAME = H:\0906600\0906603\Cad\SV... USER NAME = kaklues PLOT SCALE = PLOT DATE = 5/1/2012	DESIGNED - K.A. Klues CHECKED - E.M. Lagemann DRAWN - E.M. Lagemann CHECKED - K.A. Klues	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>		<b>STAGE CONSTRUCTION SEQUENCE</b> <b>STRUCTURE NO. 082-2045</b>		F.A.P. RTE. 809	SECTION 135-N	COUNTY ST. CLAIR	TOTAL SHEETS 206	SHEET NO. 149
					SHEET NO. 6 OF 20 SHEETS		CONTRACT NO. 76D06		ILLINOIS FED. AID PROJECT		



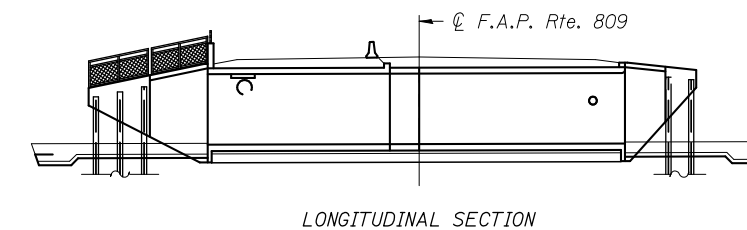
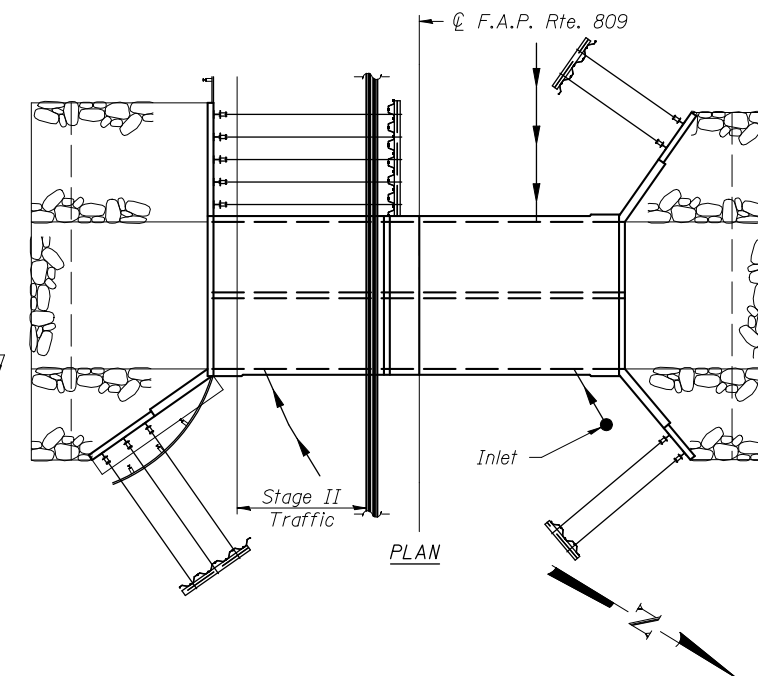
1. Remove the remaining existing structure. If piles are present, cut off existing piles located under proposed structure 2 feet below bottom of Rock Fill. Fill remaining voids with similar material as surrounding soil.
2. Construct culvert and attached wingwalls to the top slab. Culvert shall be constructed to the invert elevations shown on sheet 10 of 20. Waterstops shall be cast in ends of attached wingwalls.
3. Apply 500 psf preload to top slab of culvert. Culvert settlement shall be monitored. See Special Provisions.

STAGE II CONSTRUCTION - SEQUENCE I



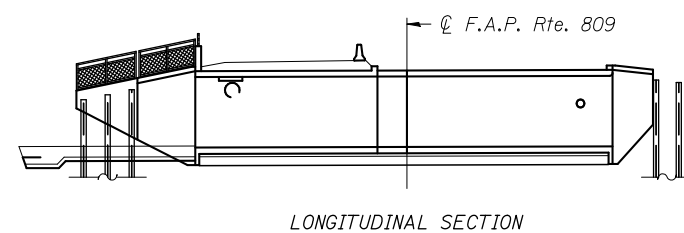
1. Construct soldier pile concrete facings to their final elevations.
2. Backfill to storm drainage pipe elevations.
3. Install storm drainage pipes thru culvert walls. See roadway plans for elevations.
4. Finish backfilling around culvert.
5. Install Riprap.

STAGE II CONSTRUCTION - SEQUENCE III



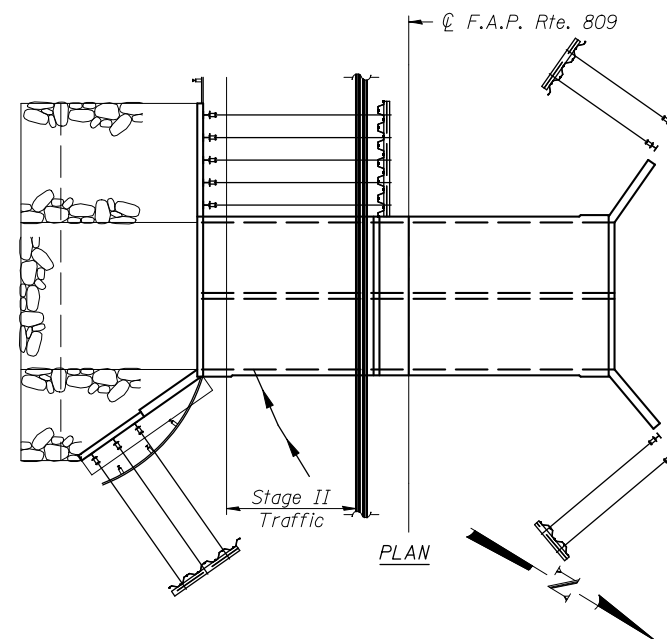
1. Construct temporary pavement.

STAGE II CONSTRUCTION - SEQUENCE IV



1. Remove preload.
2. Construct closure pour.
3. Construct top of attached wingwalls and headwall to the elevations shown on sheet 12 of 20.
4. Drive soldier pile into rock.
5. Backfill so deadmen can be installed.
6. Install soldier pile tie rods and deadmen.

STAGE II CONSTRUCTION - SEQUENCE II



**Notes:**

For stage construction details not shown, see sheet 5 of 20.  
 It is estimated that Stage II of box construction will settle approximately 2.0 inches over the course of 14 days after preloading is applied. Box settlement shall be monitored and placement of the soldier pile wing facing, parapets, and pavement shall not be permitted until the remaining project settlement is expected to be less than 0.5 inches. Placement of the closure pour shall not be permitted until the Stage II box is between 0.50 inches and 0.125 inches higher than the Stage I box.  
 All longitudinal sections are looking South.  
 For waterstop details, see sheet 13 of 20.

FILE NAME = H:\0906600\0906603\Cad\SV\Plans\0822045-76D06.dgn	DESIGNED - K.A. Klues	REVISED -
USER NAME = kaklues	CHECKED - E.M. Lagemann	REVISED -
PLOT SCALE =	DRAWN - I. Krinitskiy	REVISED -
PLOT DATE = 5/1/2012	CHECKED - K.A. Klues	REVISED -

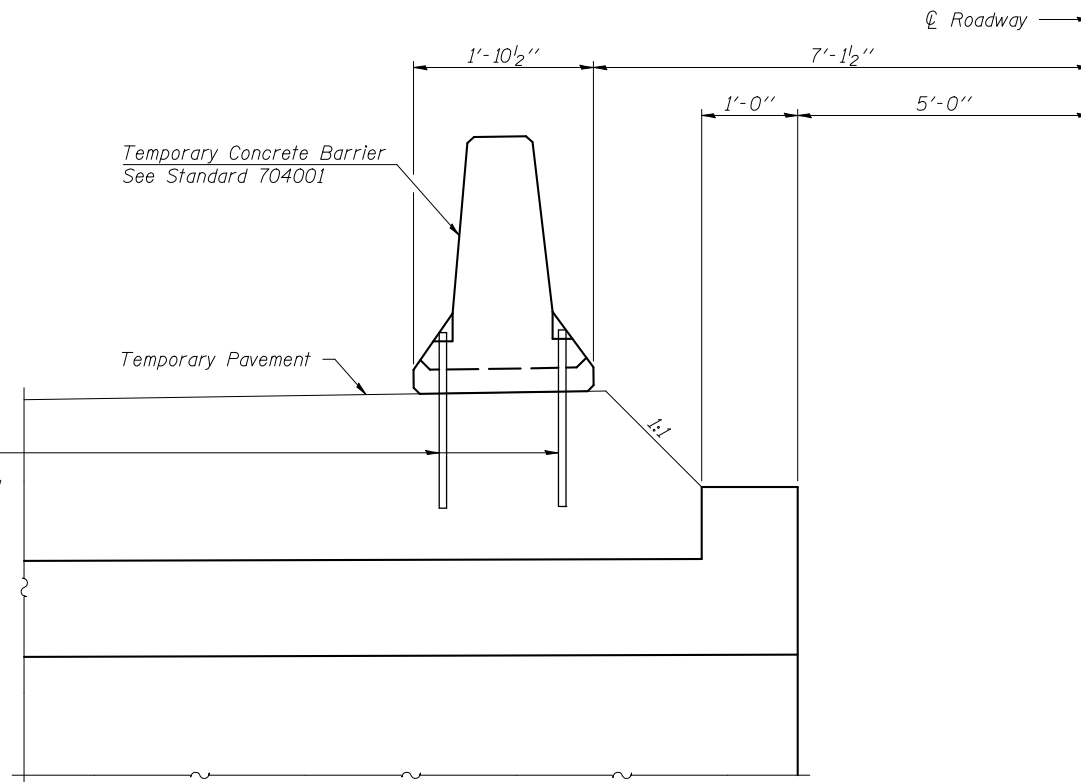
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION SEQUENCE  
STRUCTURE NO. 082-2045**

SHEET NO. 7 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
809	135-N	ST. CLAIR	206	150
			CONTRACT NO. 76D06	

ILLINOIS FED. AID PROJECT



Temporary Concrete Barrier  
See Standard 704001

Temporary Pavement

℄ Roadway

1'-10 1/2"

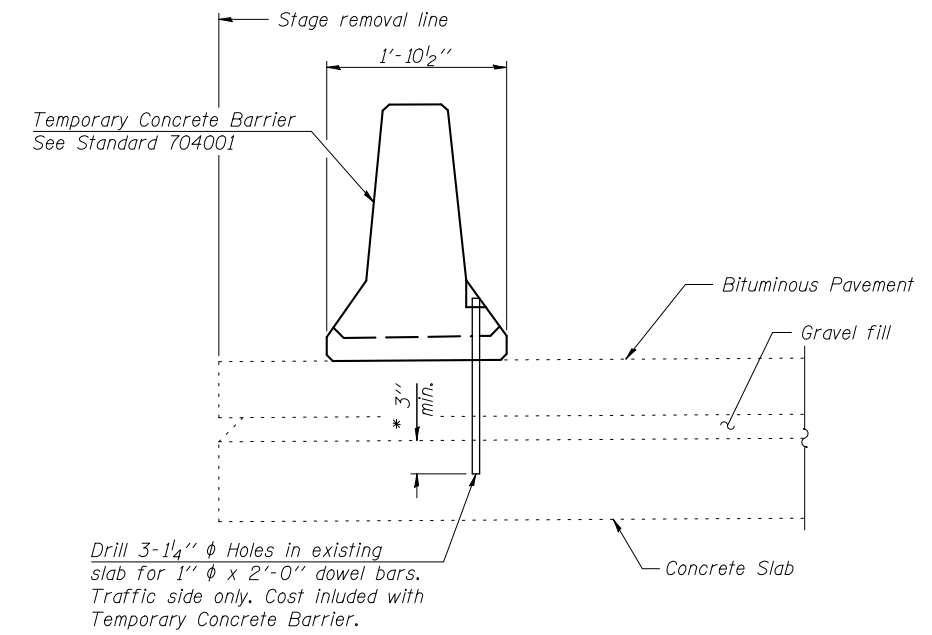
7'-1 1/2"

1'-0"

5'-0"

Attach each Temporary Concrete Barrier to the pavement over the top of the culvert with six anchoring pins. Remaining holes shall be repaired as directed by the Engineer. See Standard 704001.

SECTION THRU NEW CULVERT



Temporary Concrete Barrier  
See Standard 704001

Bituminous Pavement

Gravel fill

Concrete Slab

Stage removal line

1'-10 1/2"

3" min.

Drill 3-1 1/4"  $\phi$  Holes in existing slab for 1"  $\phi$  x 2'-0" dowel bars. Traffic side only. Cost included with Temporary Concrete Barrier.

SECTION THRU EXISTING SLAB

Notes:  
Cost of anchoring pins and dowel bars is included with Temporary Concrete Barrier.  
\* Dimension shown is minimum required embedment into concrete.

FILE NAME = H:\0906600\0906603\Cad\SV\Plans\0822045-76D06.dgn	DESIGNED - K.A. Klues	REVISED -
USER NAME = kaklues	CHECKED - E.M. Lagemann	REVISED -
PLOT SCALE =	DRAWN - I. Krinitskiy	REVISED -
PLOT DATE = 5/1/2012	CHECKED - K.A. Klues	REVISED -

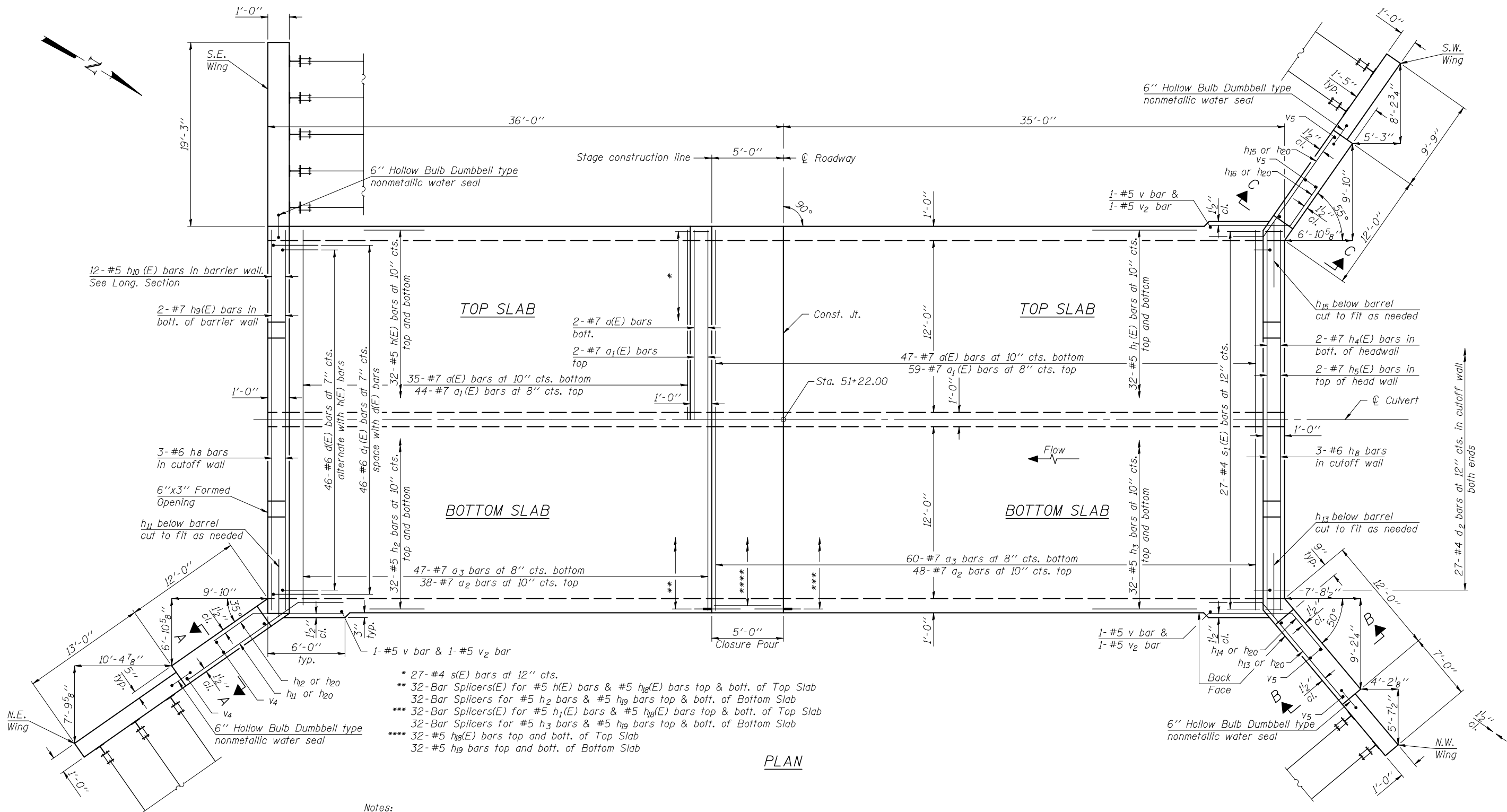


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER  
STRUCTURE NO. 082-2045

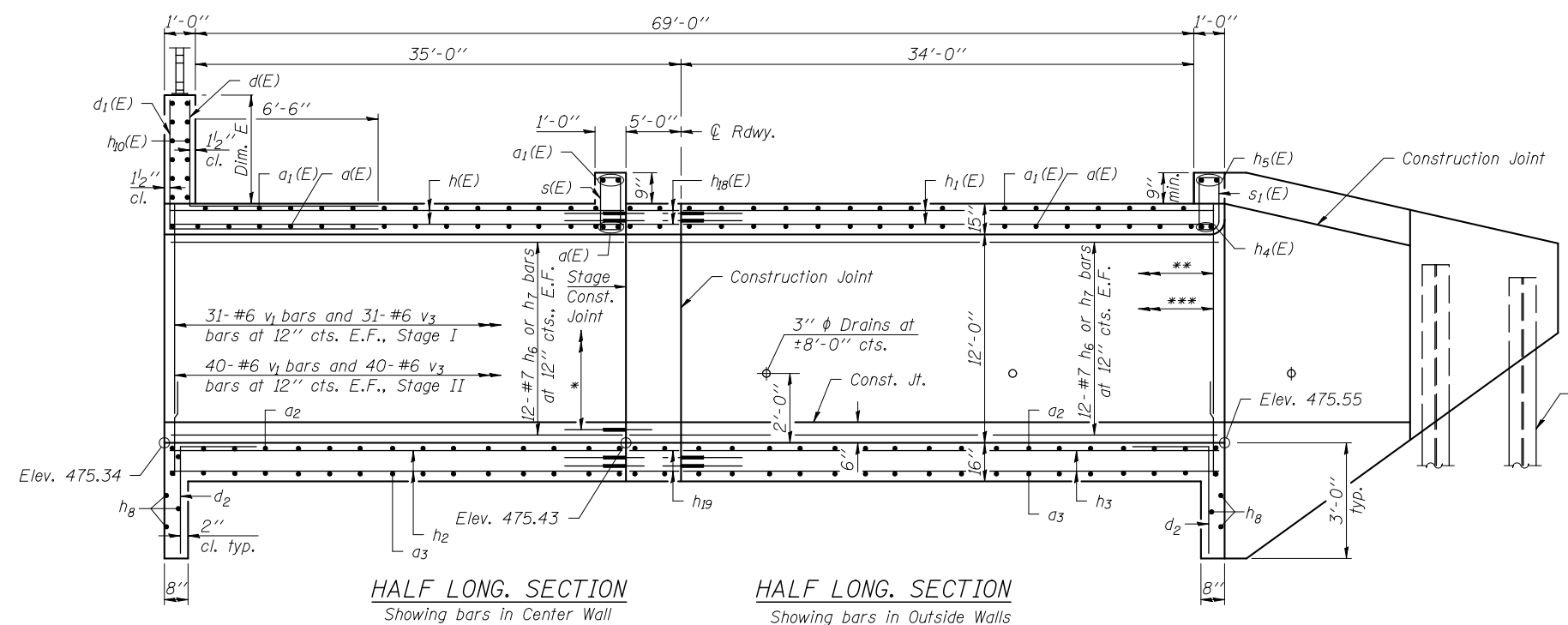
SHEET NO. 8 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
809	135-N	ST. CLAIR	206	151
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76D06	



- \* 27-#4 s(E) bars at 12" cts.
- \*\* 32-Bar Splicers(E) for #5 h(E) bars & #5 h<sub>18</sub>(E) bars top & bott. of Top Slab
- \*\* 32-Bar Splicers for #5 h<sub>2</sub> bars & #5 h<sub>19</sub> bars top & bott. of Bottom Slab
- \*\*\* 32-Bar Splicers(E) for #5 h<sub>1</sub>(E) bars & #5 h<sub>18</sub>(E) bars top & bott. of Top Slab
- \*\*\* 32-Bar Splicers for #5 h<sub>3</sub> bars & #5 h<sub>19</sub> bars top & bott. of Bottom Slab
- \*\*\*\* 32-#5 h<sub>18</sub>(E) bars top and bott. of Top Slab
- \*\*\*\* 32-#5 h<sub>19</sub> bars top and bott. of Bottom Slab

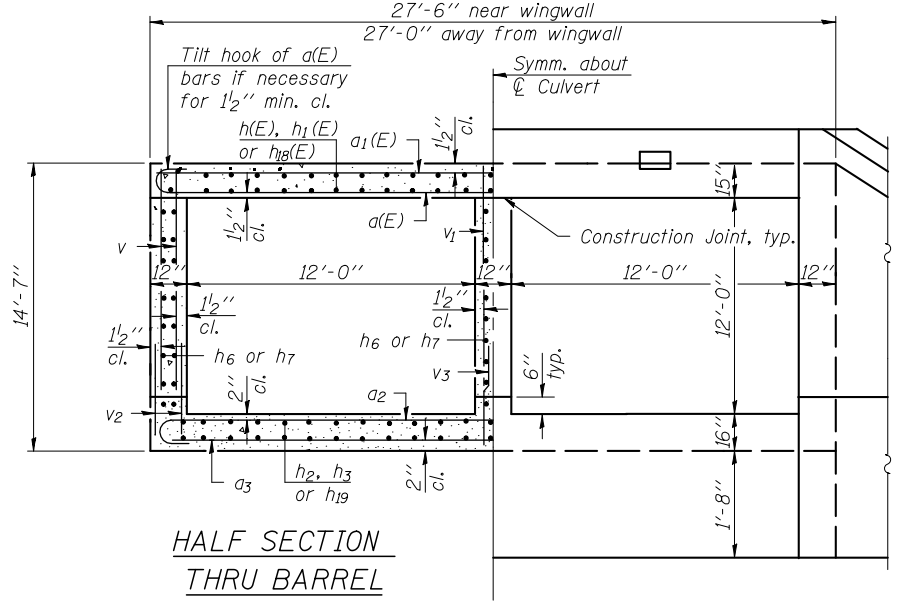
**Notes:**  
 A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.  
 Details of Soldier Pile walls shown on sheets 12, 13, & 14 of 20.  
 Wingwall details and sections shown on sheets 12 & 13 of 20.  
 For Long. Section, see sheet 10 of 20.



**HALF LONG. SECTION**  
Showing bars in Center Wall

**HALF LONG. SECTION**  
Showing bars in Outside Walls

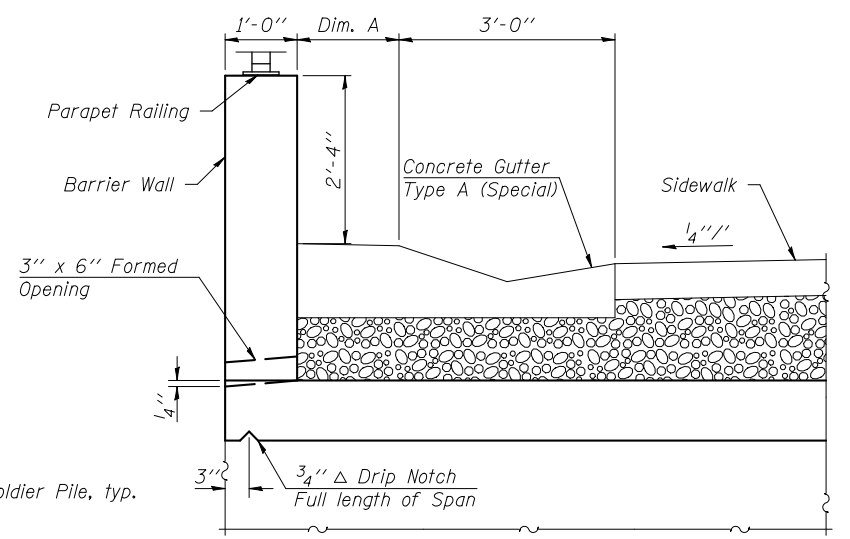
- \* 12-Bar Splicers for #7 h<sub>6</sub> bars & #7 h<sub>7</sub> bars, E.F., outside walls.
- 12-Bar Splicers for #7 h<sub>6</sub> bars & #7 h<sub>7</sub> bars, E.F., center wall.
- \*\* 47-#5 v bars and 47-#5 v<sub>2</sub> bars at 8" cts. I.F., Stage I
- 16-#5 v bars and 16-#5 v<sub>2</sub> bars at 2'-0" cts. F.F., Stage I
- \*\*\* 60-#5 v bars and 60-#5 v<sub>2</sub> bars at 8" cts. I.F., Stage II
- 20-#5 v bars and 20-#5 v<sub>2</sub> bars at 2'-0" cts. F.F., Stage II



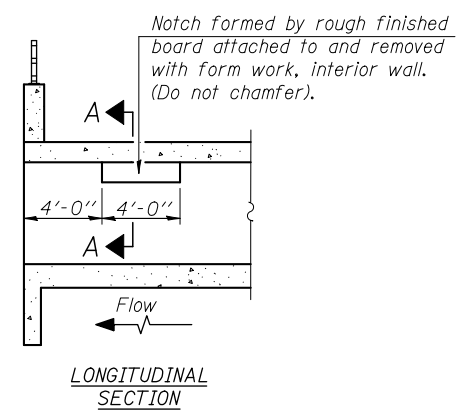
**HALF SECTION THRU BARREL**

**HALF END ELEVATION**

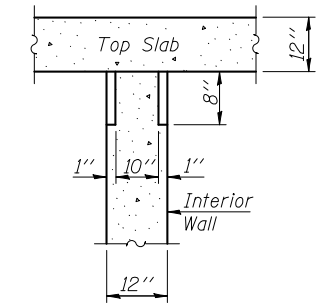
Note:  
Cut vertical legs of d(E) & d<sub>1</sub>(E) bars in field to fit wall.  
See sheet 11 of 20 for Drainage Pipe Void Reinforcement.



**DRAIN DETAIL AT DOWNSTREAM END**

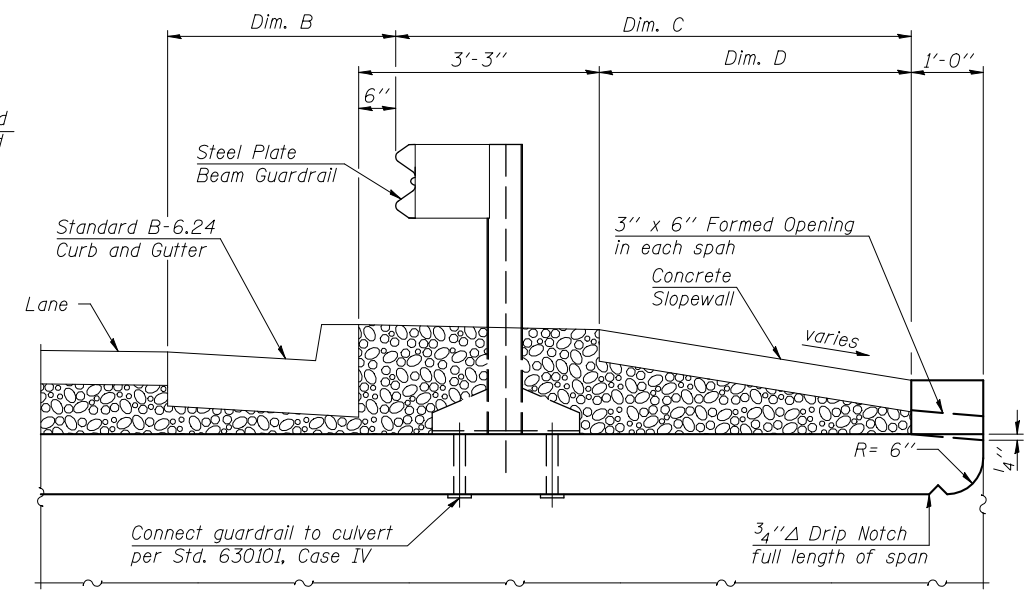


**LONGITUDINAL SECTION**



**SECTION A-A**

**PHOEBE NESTING SITE DETAILS**  
(Downstream End Only)

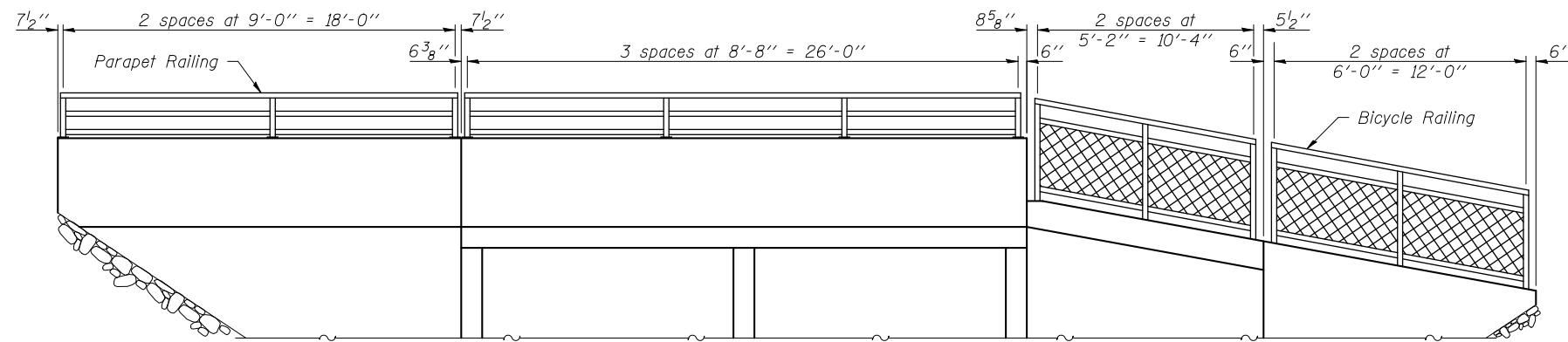


**DRAIN DETAIL AND GUARDRAIL MOUNTING DETAIL AT UPSTREAM END**

**TABLE OF VARIABLE DIMENSIONS**

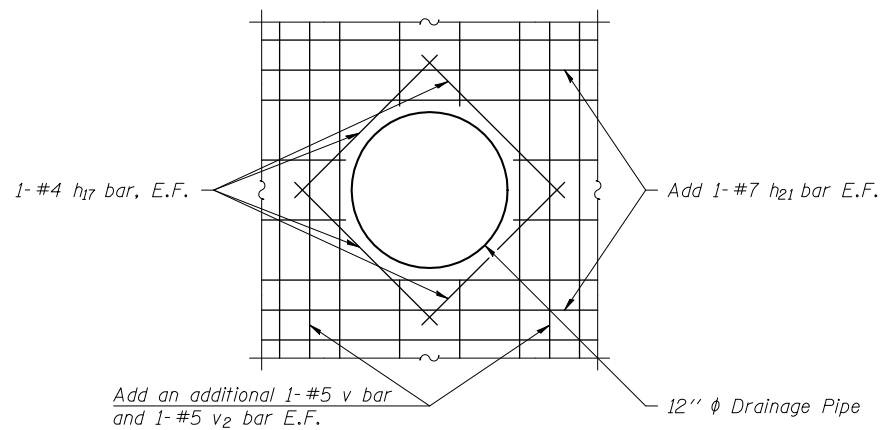
	Maximum	Minimum
Dim. A	1'-5"	0"
Dim. B	3'-11 <sup>3</sup> / <sub>4</sub> "	3'-2 <sup>1</sup> / <sub>2</sub> "
Dim. C	10'-3 <sup>3</sup> / <sub>4</sub> "	3'-10 <sup>5</sup> / <sub>8</sub> "
Dim. D	7'-6 <sup>3</sup> / <sub>4</sub> "	1'-1 <sup>3</sup> / <sub>8</sub> "
Dim. E	4'-5 <sup>1</sup> / <sub>8</sub> "	4'-4 <sup>1</sup> / <sub>2</sub> "

Note: Dim. B includes Standard B-6.24 Curb and Gutter.

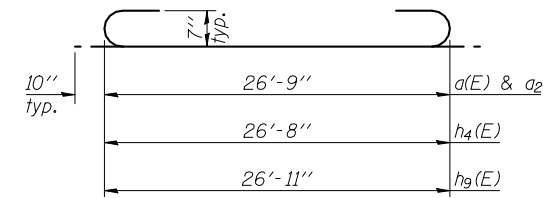


**PARTIAL DEVELOPED ELEVATION**  
(Horiz. dimensions shown are along wall)

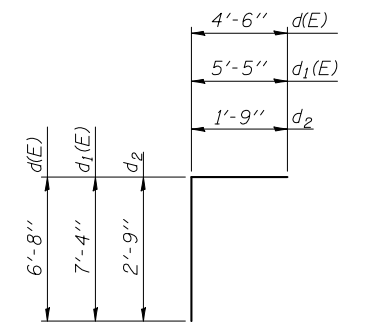
Note:  
For details of railings, see sheet 15 of 20.



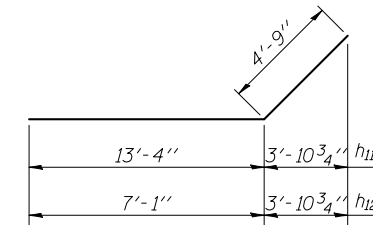
**DRAINAGE PIPE VOID REINFORCEMENT**  
(For pipe locations on walls and details, see sheet 1 of 20 and Roadway Plans)



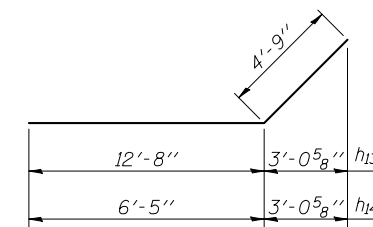
**BARS a(E), a<sub>2</sub>, h<sub>4</sub>(E), & h<sub>9</sub>(E)**



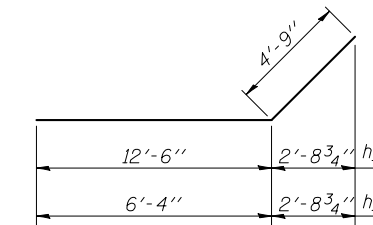
**BARS d(E), d<sub>1</sub>(E), & d<sub>2</sub>**



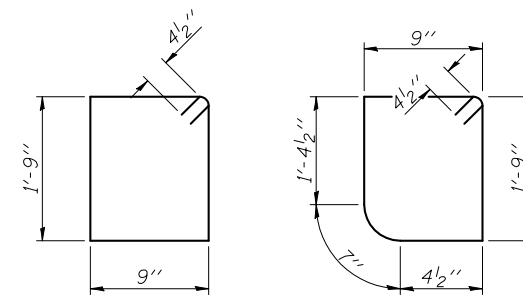
**BARS h<sub>11</sub> & h<sub>12</sub>**



**BARS h<sub>13</sub> & h<sub>14</sub>**



**BARS h<sub>15</sub> & h<sub>16</sub>**

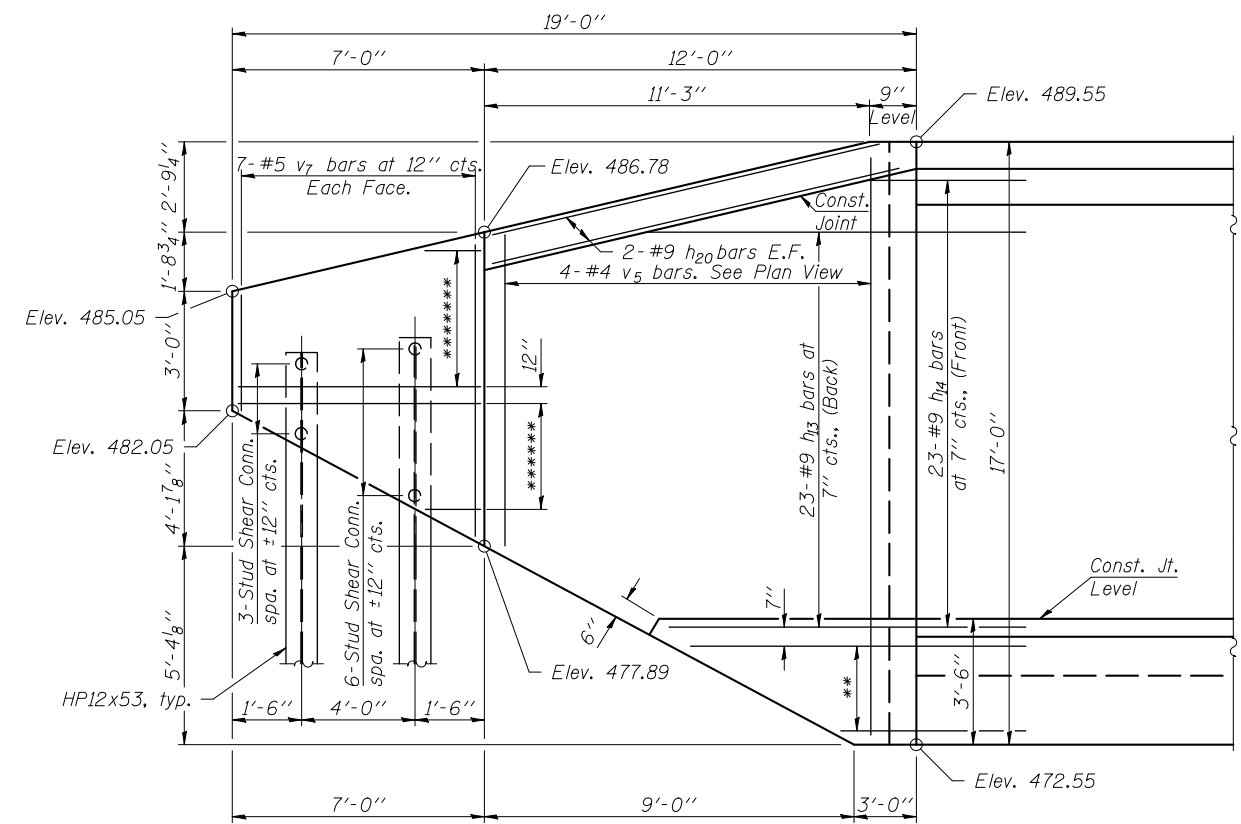
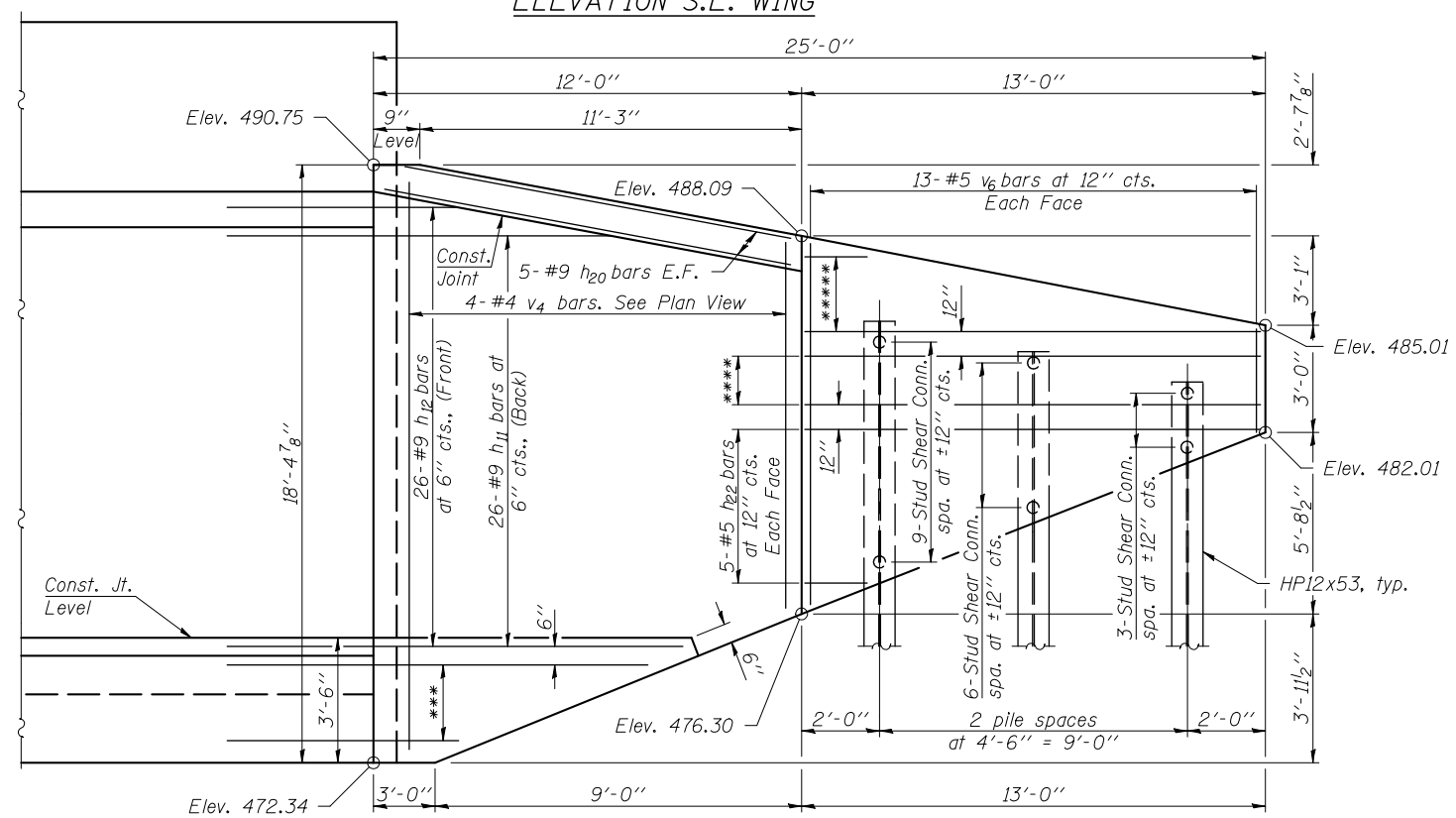
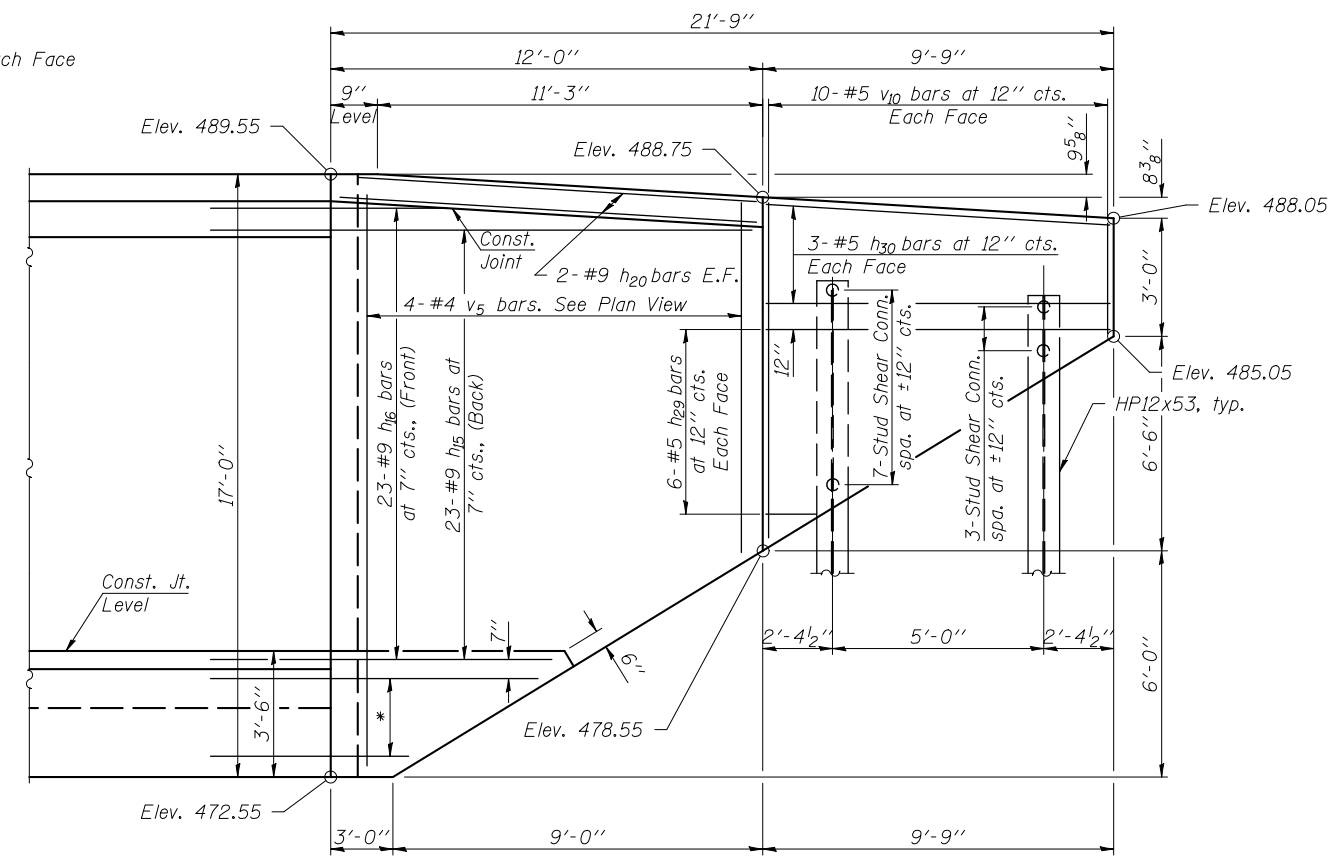
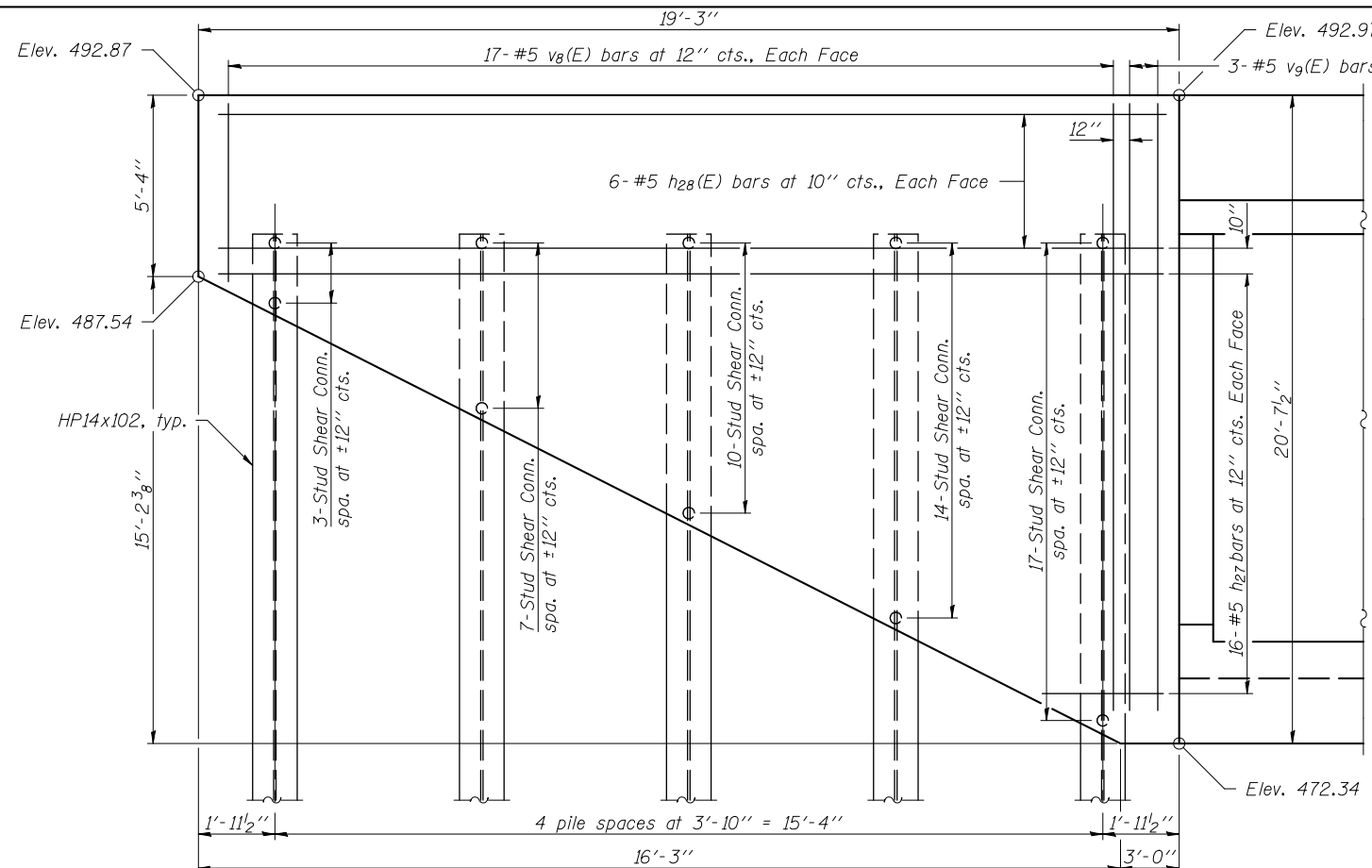


**BAR s(E)**

**BAR s<sub>1</sub>(E)**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	84	#7	28'-5"	U
a <sub>1</sub> (E)	105	#7	26'-9"	—
a <sub>2</sub>	86	#7	28'-5"	U
a <sub>3</sub>	107	#7	26'-9"	—
d(E)	46	#6	11'-2"	L
d <sub>1</sub> (E)	46	#6	12'-9"	L
d <sub>2</sub>	54	#4	4'-6"	L
h(E)	64	#5	30'-9"	—
h <sub>1</sub> (E)	64	#5	34'-9"	—
h <sub>2</sub>	64	#5	30'-9"	—
h <sub>3</sub>	64	#5	34'-9"	—
h <sub>4</sub> (E)	2	#7	28'-4"	U
h <sub>5</sub> (E)	2	#7	26'-8"	—
h <sub>6</sub>	72	#7	30'-9"	—
h <sub>7</sub>	72	#7	39'-9"	—
h <sub>8</sub>	6	#6	27'-2"	—
h <sub>9</sub> (E)	2	#7	28'-7"	U
h <sub>10</sub> (E)	12	#5	26'-9"	—
h <sub>11</sub>	32	#9	18'-1"	—
h <sub>12</sub>	26	#9	11'-10"	—
h <sub>13</sub>	28	#9	17'-5"	—
h <sub>14</sub>	23	#9	11'-2"	—
h <sub>15</sub>	28	#9	17'-3"	—
h <sub>16</sub>	23	#9	11'-1"	—
h <sub>17</sub>	24	#4	4'-2"	—
h <sub>18</sub> (E)	64	#5	4'-9"	—
h <sub>19</sub>	64	#5	4'-9"	—
h <sub>20</sub>	18	#9	12'-0"	—
h <sub>21</sub>	12	#7	7'-0"	—
s(E)	27	#4	5'-9"	□
s <sub>1</sub> (E)	27	#4	5'-7"	□
v	301	#5	12'-6"	—
v <sub>1</sub>	142	#6	12'-6"	—
v <sub>2</sub>	301	#5	4'-0"	—
v <sub>3</sub>	142	#6	4'-5"	—
v <sub>4</sub>	4	#4	18'-1"	—
v <sub>5</sub>	8	#4	16'-9"	—
Concrete Box Culverts	Cu. Yd.		314.6	
Reinforcement Bars	Pound		44,270	
Reinforcement Bars, Epoxy Coated	Pound		17,840	



\*\*\* 6-#9 h<sub>11</sub> bars at 6" cts., (Back)  
 \*\*\*\*\* 2-#5 h<sub>23</sub> bars at 12" cts., Each Face  
 \*\*\*\*\* 3-#5 h<sub>24</sub> bars at 12" cts., Each Face

**Note:**  
 Cut or bend ends of h<sub>11</sub>, h<sub>12</sub>, h<sub>13</sub>, h<sub>14</sub>, h<sub>15</sub>, h<sub>16</sub>, h<sub>26</sub>, v<sub>4</sub>, & v<sub>5</sub> bars in field as needed to fit wall.  
 Railing not shown for clarity.  
 For additional wingwall details, see sheets 13 & 14 of 20.  
 For Bar Bending Diagrams and Bill of Material, see sheet 11 of 20.  
 For Soldier Pile Wall details and Bills of Material, see sheets 13 & 14 of 20.

\*\*\* 5-#9 h<sub>13</sub> bars at 7" cts., (Back)  
 \*\*\*\*\* 4-#5 h<sub>25</sub> bars at 12" cts., Each Face  
 \*\*\*\*\* 4-#5 h<sub>26</sub> bars at 12" cts., Each Face

FILE NAME = \\0906600\0906603\Cad\SV\Plans\0822045-76D06.dgn	DESIGNED - K.A. Klues	REVISED -
USER NAME = kaklues	CHECKED - E.M. Lagemann	REVISED -
PLOT SCALE =	DRAWN - I. Krinitskiy	REVISED -
PLOT DATE = 5/1/2012	CHECKED - EML / KAK	REVISED -

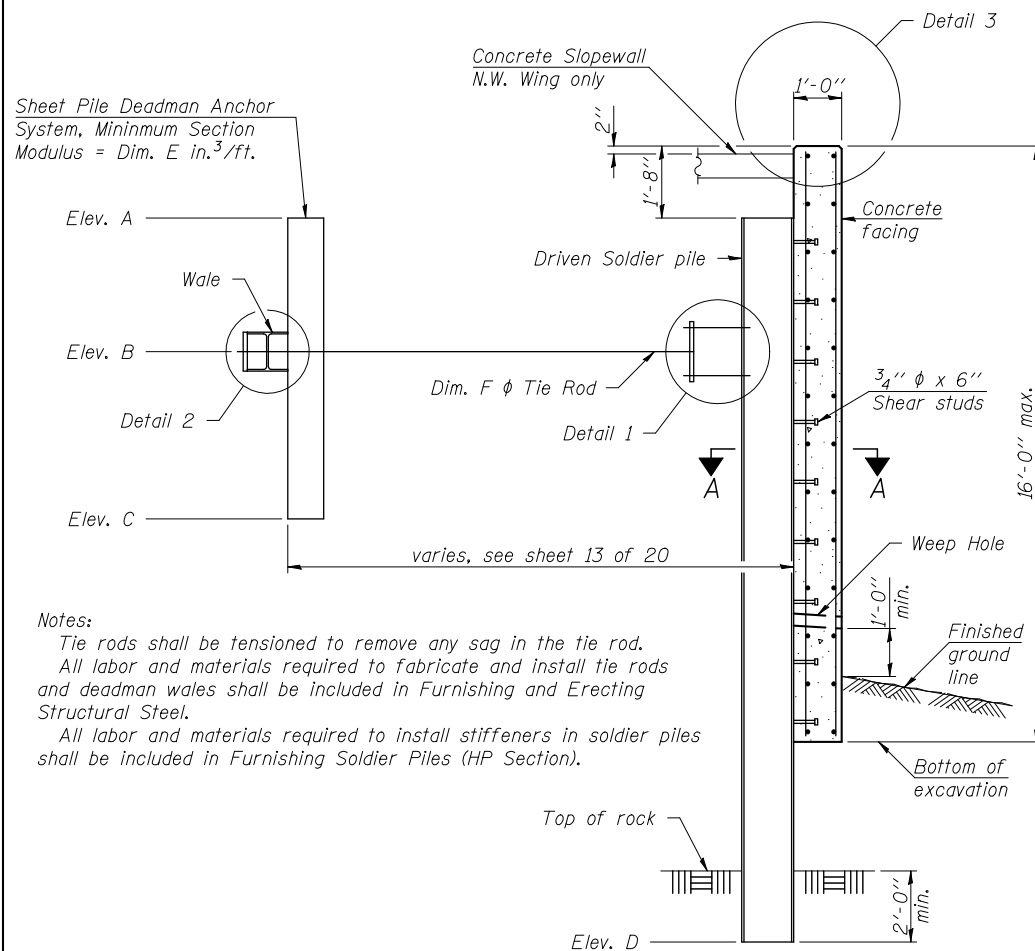
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**WINGWALL DETAILS I  
 STRUCTURE NO. 082-2045**

F.A.P. RTE. 809	SECTION 135-N	COUNTY ST. CLAIR	TOTAL SHEETS 206	SHEET NO. 155
CONTRACT NO. 76D06			ILLINOIS FED. AID PROJECT	





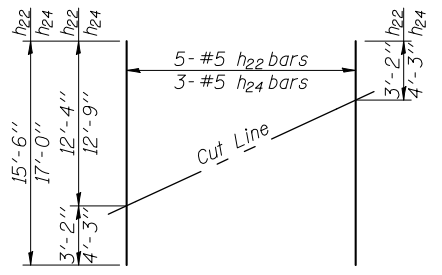


Notes:  
 Tie rods shall be tensioned to remove any sag in the tie rod.  
 All labor and materials required to fabricate and install tie rods and deadman wales shall be included in Furnishing and Erecting Structural Steel.  
 All labor and materials required to install stiffeners in soldier piles shall be included in Furnishing Soldier Piles (HP Section).

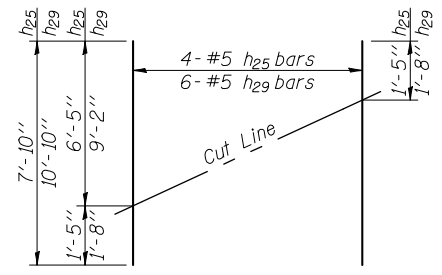
SECTION THRU SOLDIER PILE WING WALL

TABLE OF VARIABLE DIMENSIONS

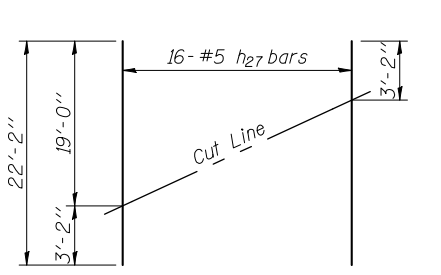
ITEM	N.E. Wing	N.W. Wing	S.E. Wing	S.W. Wing
Soldier Pile	HP12x53	HP12x53	HP14x102	HP12x53
Wale	HP12x53	HP12x53	HP12x53	HP12x53
Elev. A	487.83	486.17	488.00	488.50
Elev. B	481.50	481.50	481.00	483.00
Elev. C	478.33	479.17	475.00	480.25
Elev. D	452.00	464.00	451.00	454.00
Dim. E	6.80	5.09	19.12	5.95
Dim. F	1 1/2"	1 1/2"	2"	1 1/2"
Dim. G	3/4"	3/4"	1"	3/4"
Dim. H	1 1/2"	1 1/2"	2"	1 1/2"
Dim. I	1'-0"	1'-0"	1'-2"	1'-0"
Dim. J	1'-4"	1'-4"	1'-5"	1'-4"
Dim. K	4"	4"	4 1/2"	4"



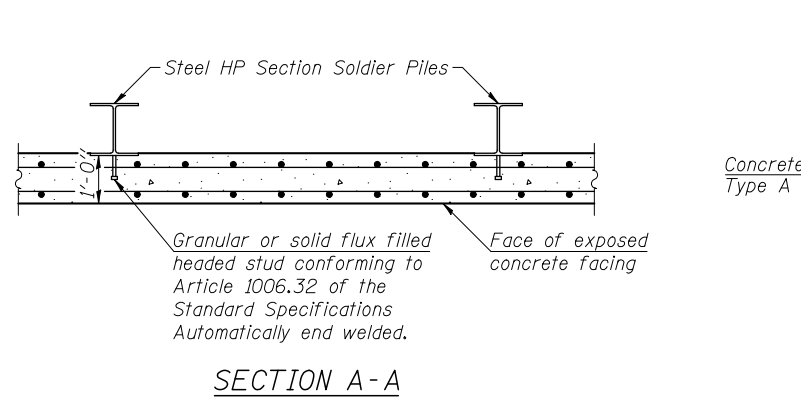
**FIELD CUTTING DIAGRAM**  
 Order h22 & h24 bars full length. Cut as shown and use remainder of bars in opposite face.



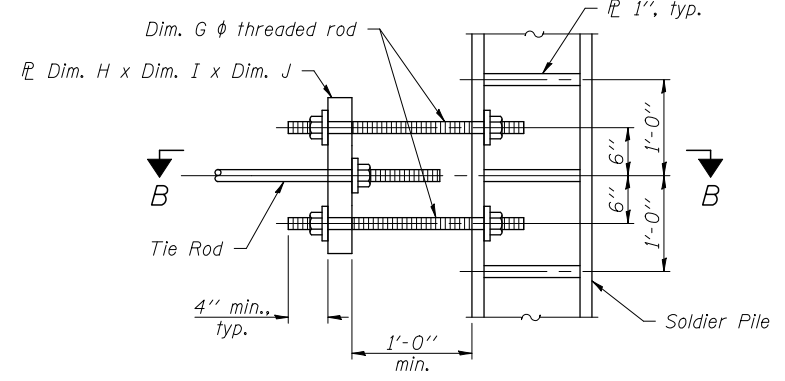
**FIELD CUTTING DIAGRAM**  
 Order h25 & h29 bars full length. Cut as shown and use remainder of bars in opposite face.



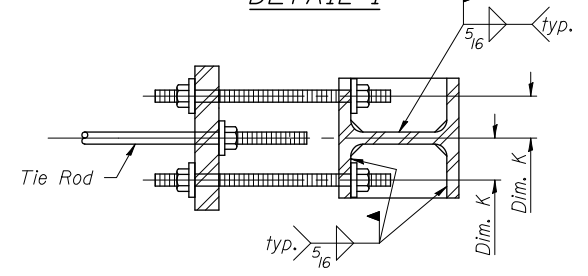
**FIELD CUTTING DIAGRAM**  
 Order h27 bars full length. Cut as shown and use remainder of bars in opposite face.



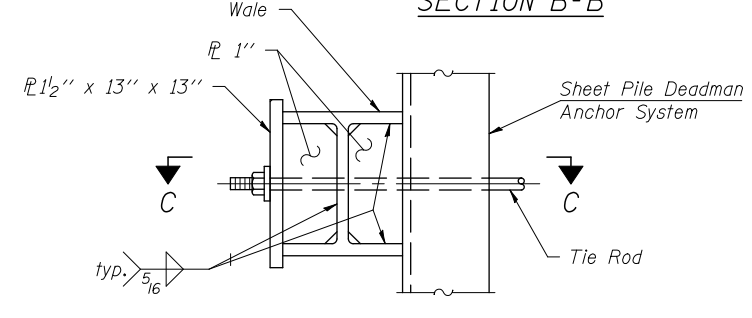
SECTION A-A



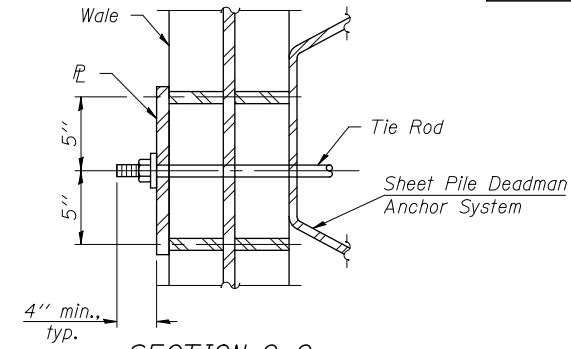
DETAIL 1



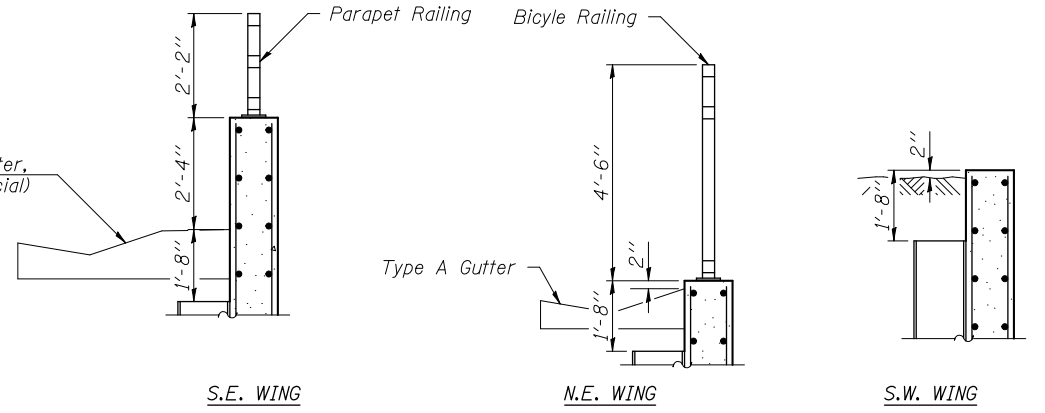
SECTION B-B



DETAIL 2



SECTION C-C



DETAIL 3

**N.E. WING BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h22	5	#5	15'-6"	—
h23	4	#5	12'-9"	—
h24	3	#5	17'-0"	—
v6	13	#5	14'-2"	—
Concrete Structures			Cu. Yd.	3.6
Furnishing and Erecting Structural Steel			Pound	1,940
Stud Shear Connectors			Each	18
Reinforcement Bars			Pound	380
Furnishing Soldier Piles (HP Section)			Foot	99
Driving Soldier Piles			Foot	99
Permanent Steel Sheet Piling			Sq. Ft.	129

**S.E. WING BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h27	16	#5	22'-2"	—
h28(E)	12	#5	19'-0"	—
v8(E)	17	#5	25'-3"	—
v9(E)	6	#5	20'-3"	—
Concrete Structures			Cu. Yd.	10.2
Furnishing and Erecting Structural Steel			Pound	4,210
Stud Shear Connectors			Each	51
Reinforcement Bars			Pound	370
Reinforcement Bars, Epoxy Coated			Pound	810
Furnishing Soldier Piles (HP Section)			Foot	190
Driving Soldier Piles			Foot	190
Permanent Steel Sheet Piling			Sq. Ft.	251

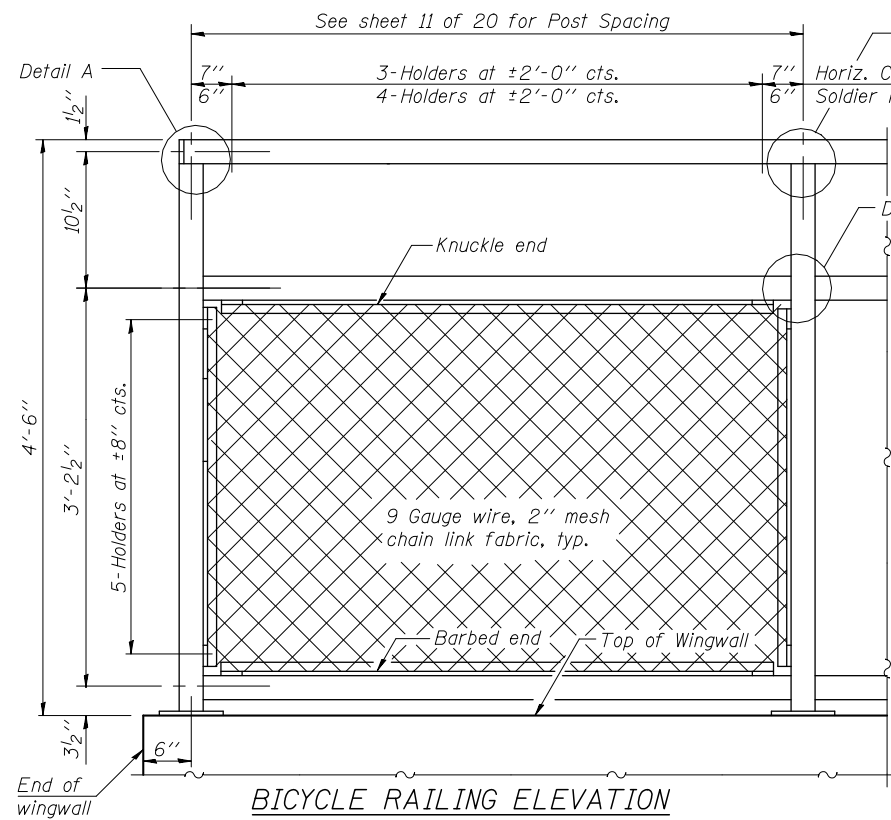
**N.W. WING BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h25	4	#5	7'-10"	—
h26	8	#5	6'-9"	—
v7	7	#5	11'-3"	—
Concrete Structures			Cu. Yd.	1.6
Furnishing and Erecting Structural Steel			Pound	1,210
Stud Shear Connectors			Each	9
Reinforcement Bars			Pound	170
Furnishing Soldier Piles (HP Section)			Foot	41
Driving Soldier Piles			Foot	41
Permanent Steel Sheet Piling			Sq. Ft.	56

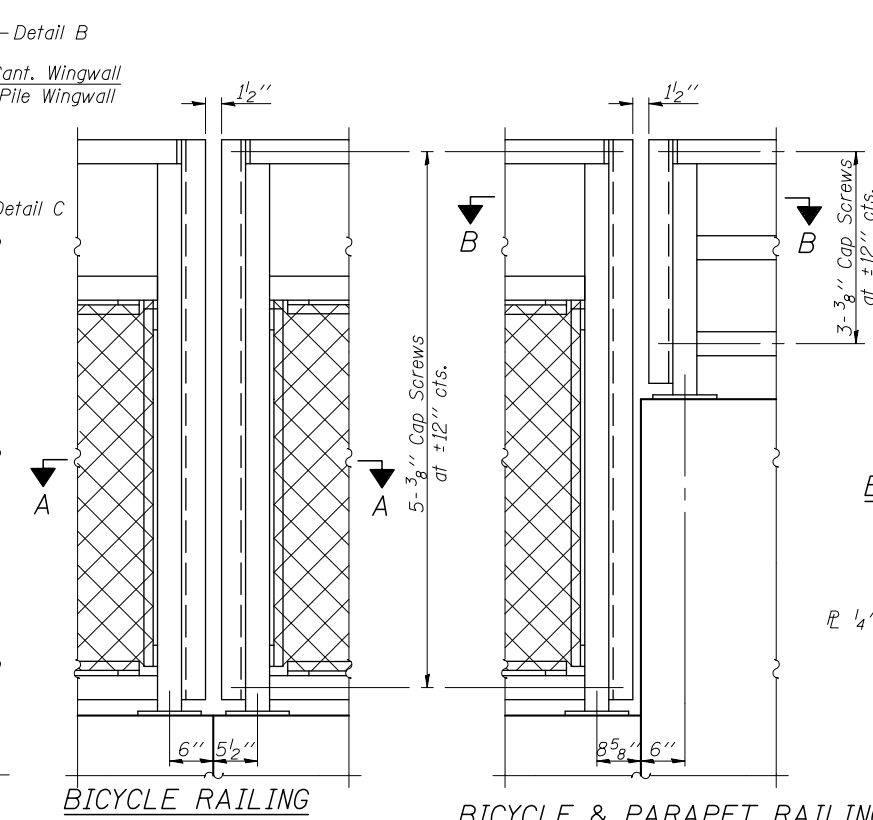
**S.W. WING BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h29	6	#5	10'-10"	—
h30	6	#5	9'-6"	—
v10	10	#5	12'-7"	—
Concrete Structures			Cu. Yd.	2.4
Furnishing and Erecting Structural Steel			Pound	1,270
Stud Shear Connectors			Each	10
Reinforcement Bars			Pound	260
Furnishing Soldier Piles (HP Section)			Foot	66
Driving Soldier Piles			Foot	66
Permanent Steel Sheet Piling			Sq. Ft.	83

Notes:  
 It shall be noted that the Sheet Pile Anchor System for the S.E. Wing may coincide with the Stage II Temporary Soil Retention System. At the Contractor's option, the Sheet Pile Anchor System for the S.E. Wing may be incorporated into the Stage II Temporary Soil Retention System. The elevations and minimum section modulus shown may be adjusted to suit the design of the Temporary Soil Retention System, but shall meet the design requirements of the Sheet Pile Anchor System as a minimum. Additional materials required shall be included with Temporary Soil Retention System.  
 Holes shall be field drilled in Soldier Pile flange and Sheet Pile Anchor System, 1/8" φ larger than threaded rods and tie rods.  
 All nuts and washers shall be ASTM A325 Type 1, mechanically galvanized.  
 For Elevation of soldier pile wingwalls, see sheet 12 of 20.  
 For Soldier Pile and Deadman Layout, see sheet 13 of 20.  
 For waterstop details, see sheet 13 of 20.  
 For Steel H-Pile details, see sheet 16 of 20.



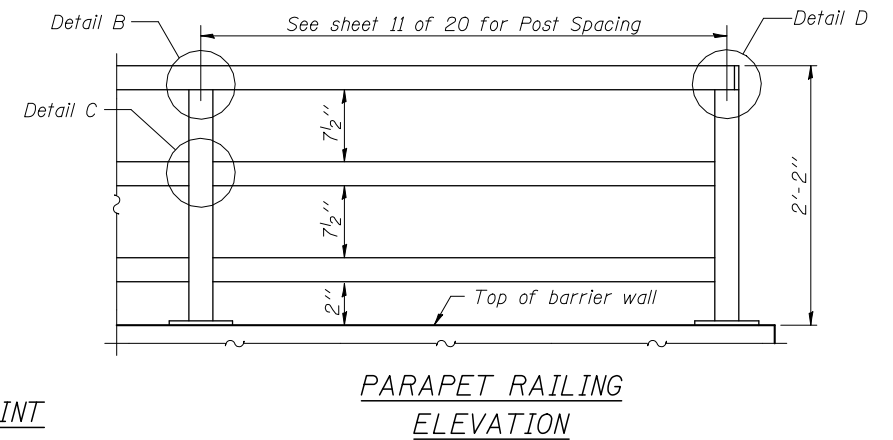
BICYCLE RAILING ELEVATION



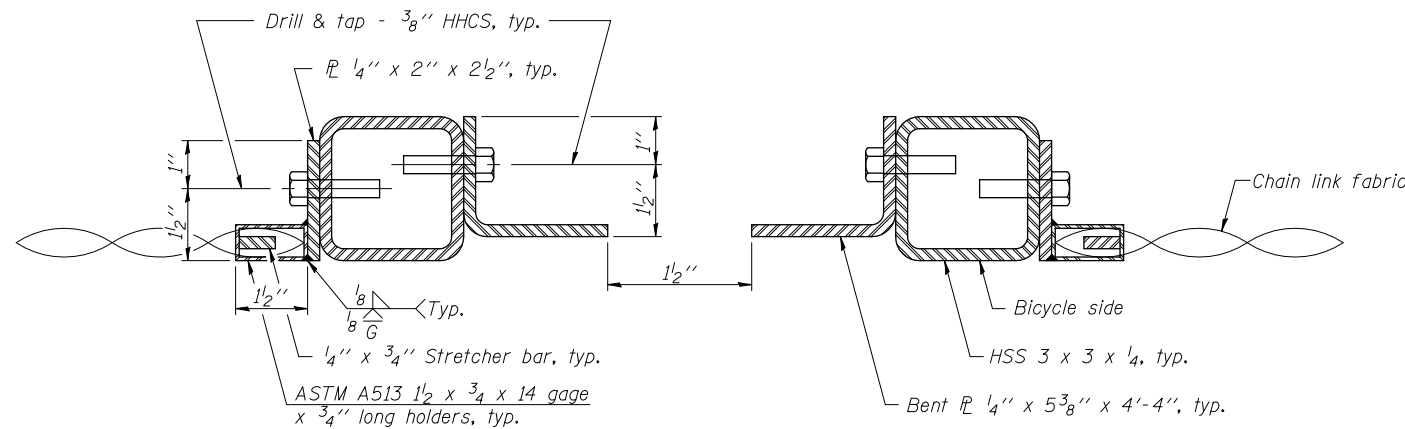
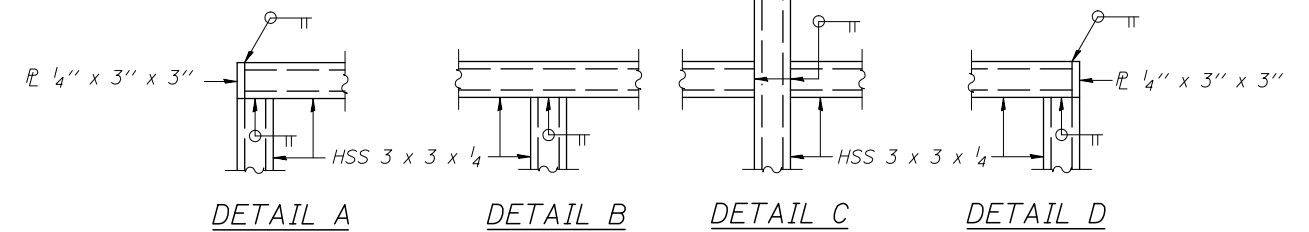
BICYCLE RAILING ELEV. AT CONST. JOINT

BICYCLE & PARAPET RAILING ELEV. AT WINGWALL & BARRIER WALL

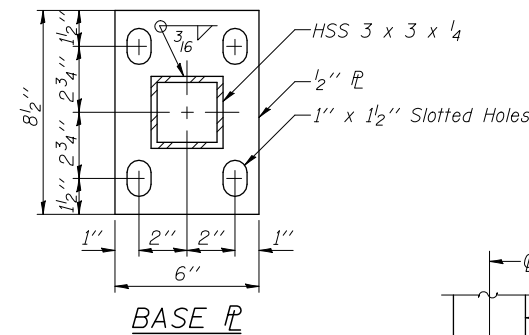
PARAPET RAILING ELEVATION AT CONST. JOINT



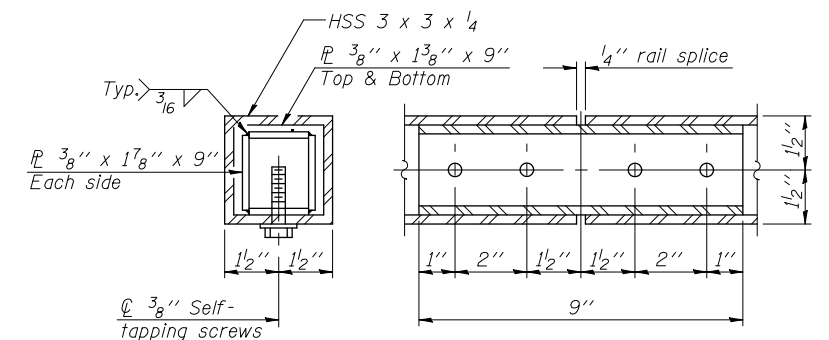
PARAPET RAILING ELEVATION



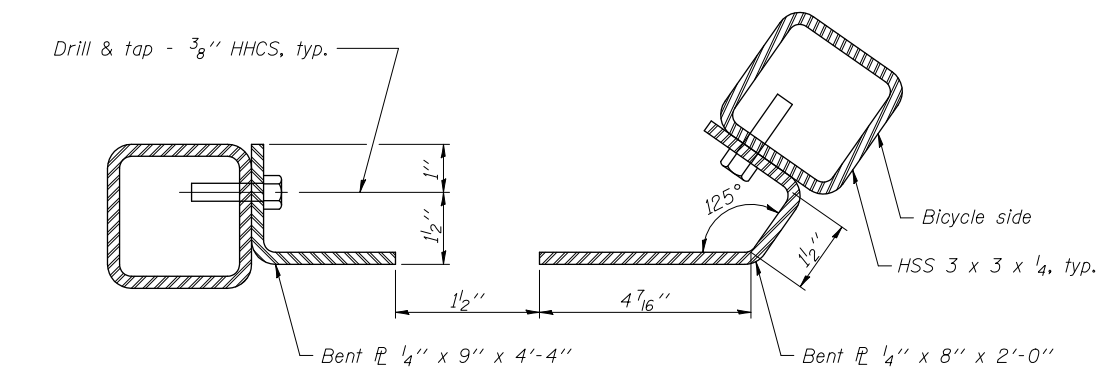
SECTION A-A



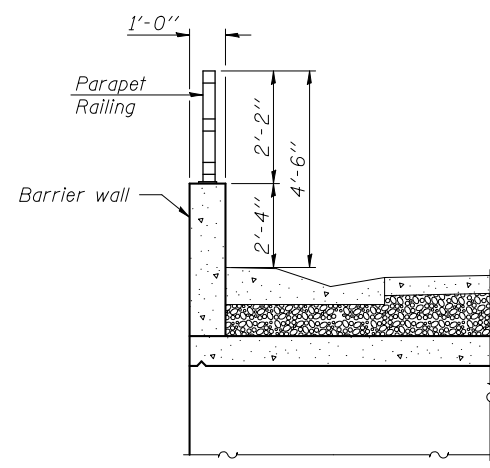
BASE PLATE



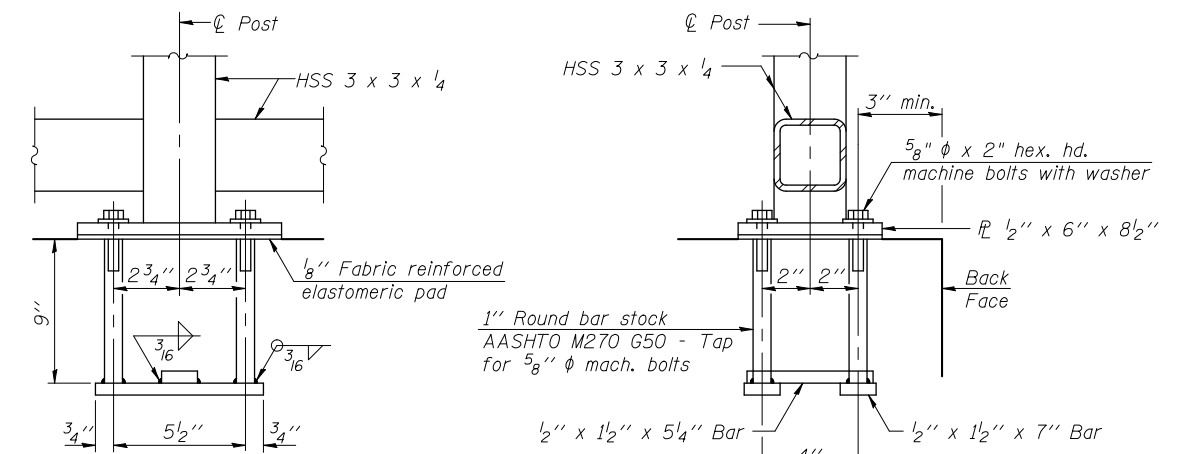
RAIL SPLICE



SECTION B-B



SECTION THRU CULVERT

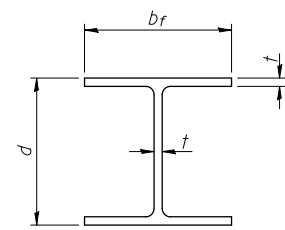


ANCHOR BOLT DETAILS

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

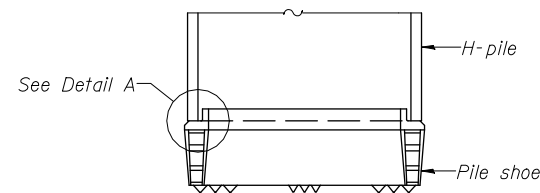
BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	23
Parapet Railing	Foot	44

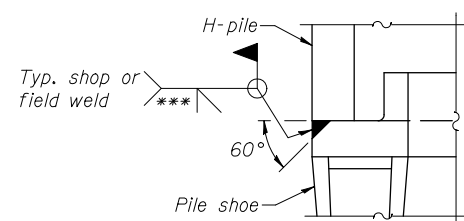


STEEL PILE TABLE

Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"

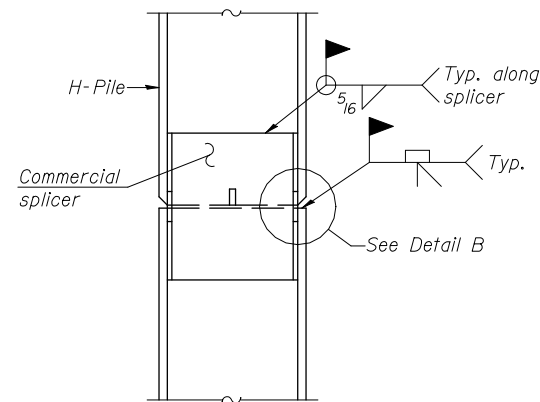


ELEVATION

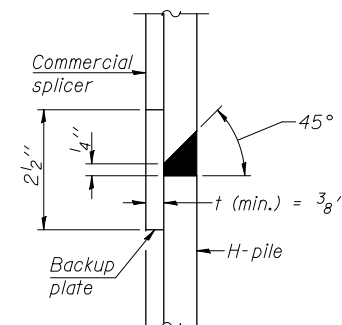


DETAIL A

H-PILE SHOE ATTACHMENT

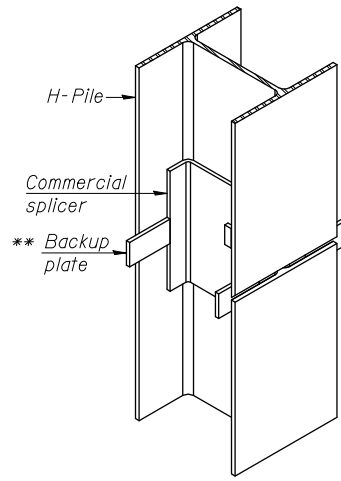


ELEVATION

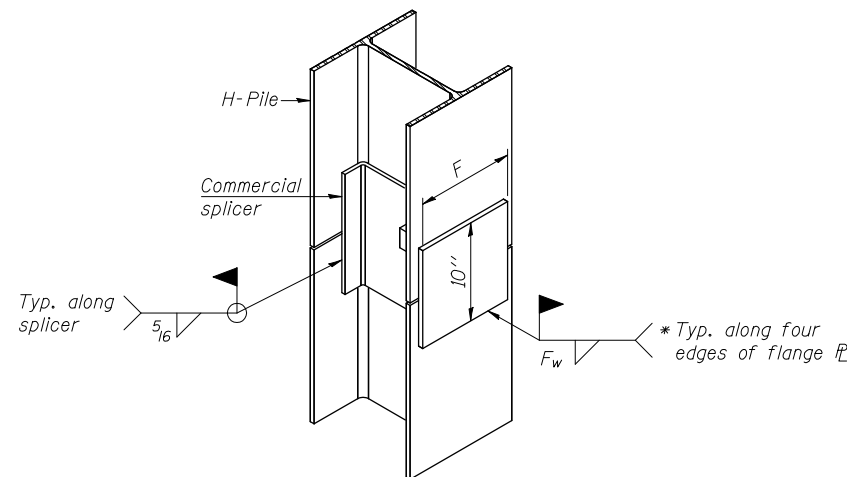


DETAIL "B"

WELDED COMMERCIAL SPLICE



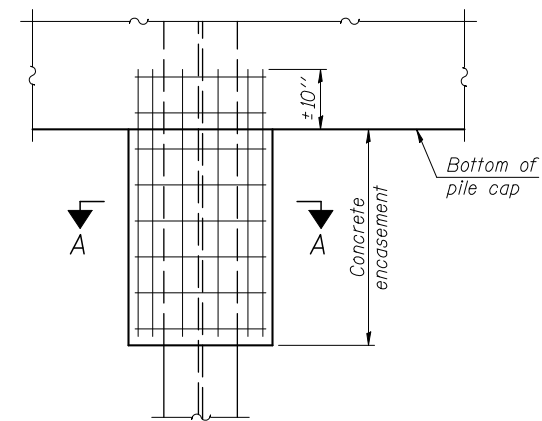
ISOMETRIC VIEW



ISOMETRIC VIEW

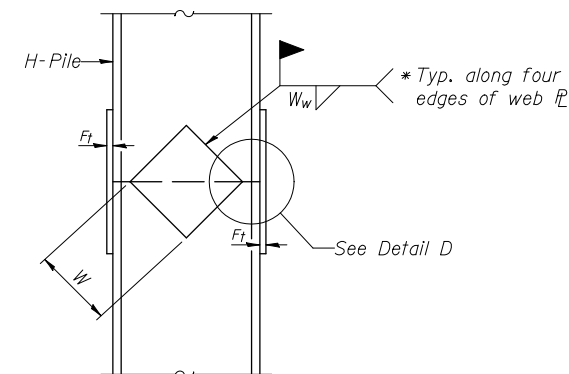
WELDED COMMERCIAL SPLICE ALTERNATE

- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).

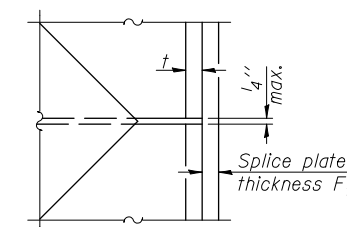


ELEVATION

PILE ENCASEMENT

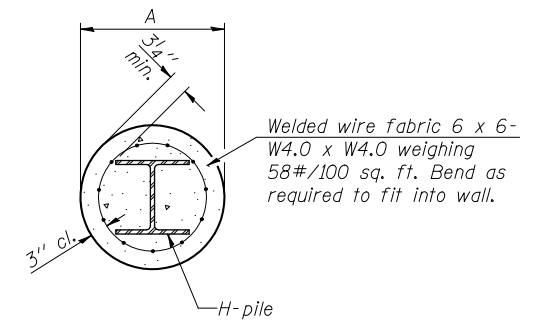


ELEVATION



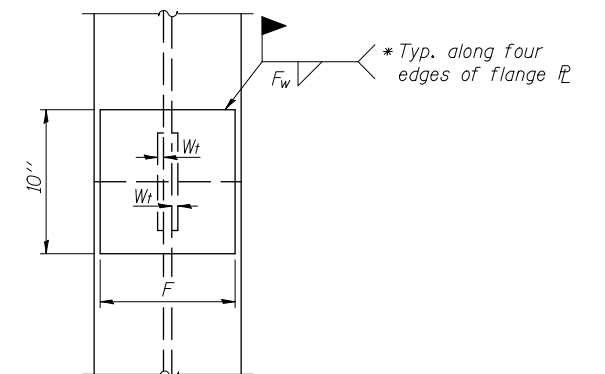
DETAIL D

WELDED PLATE FIELD SPLICE



SECTION A-A

Note:  
Forms for encasement may be omitted when soil conditions permit.

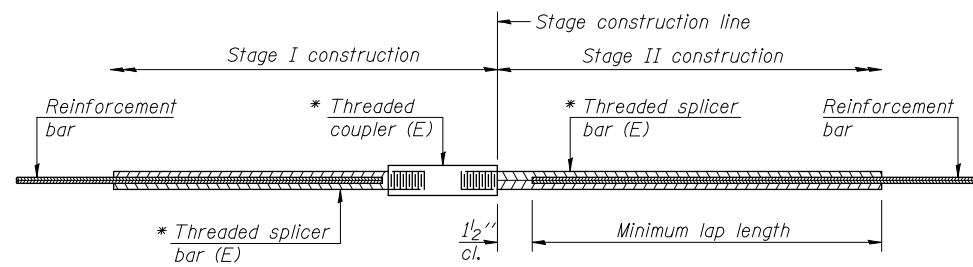


END VIEW

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

Note:  
The steel H-piles shall be according to AASHTO M270 Grade 50.

F-HP 1-27-12



**STANDARD BAR SPLICER ASSEMBLY**

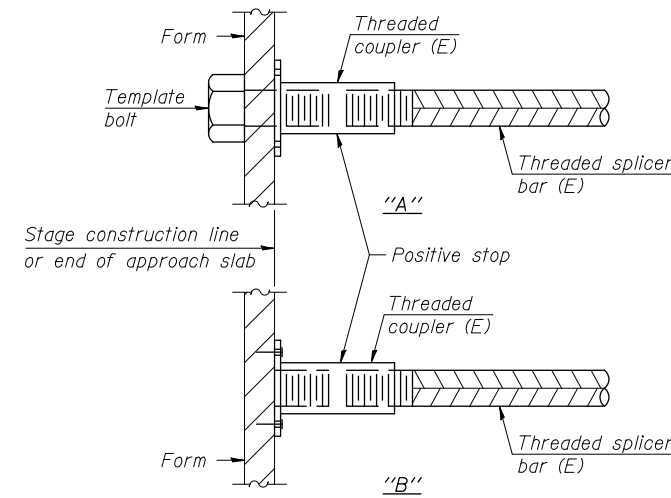
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

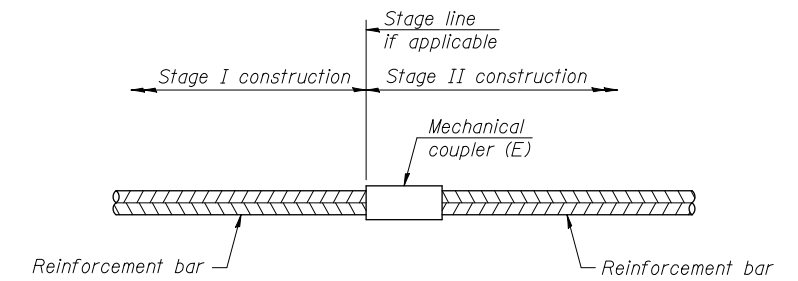
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Top of Top Slab	#5	64	Table 4
Bot. of Top Slab	#5	64	Table 3
Top of Bottom Slab	#5	64	Table 2
Bot. of Bot. Slab	#5	64	Table 1
Interior Wall	#7	24	Table 2
Exterior Walls	#7	48	Table 2



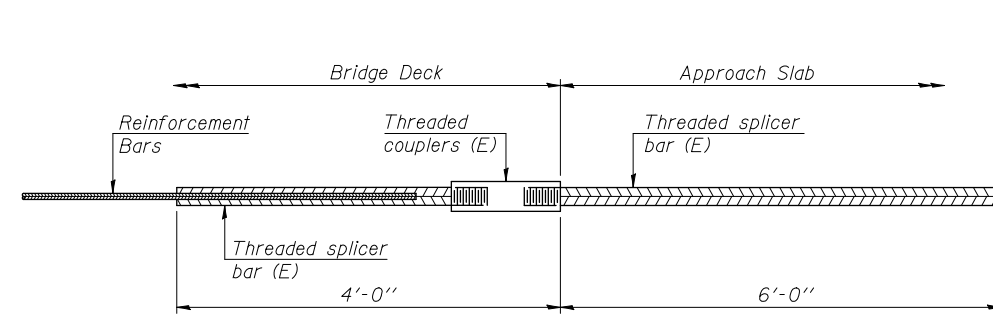
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



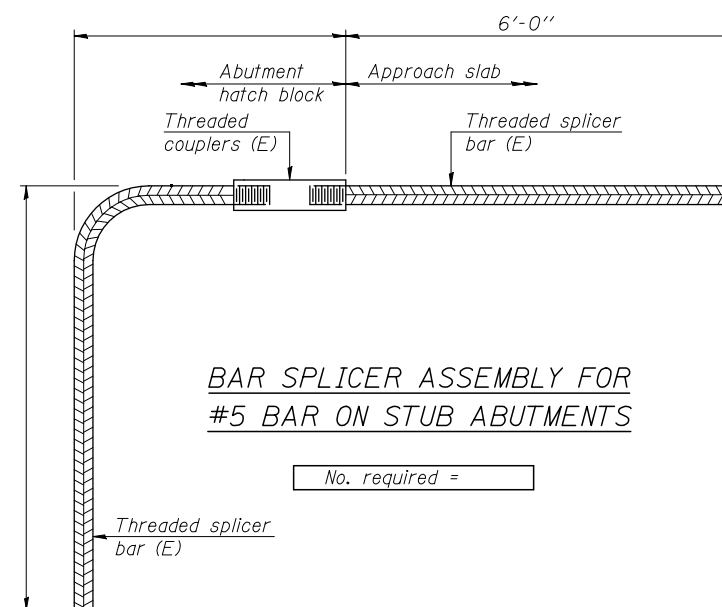
**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

No. required =



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required =

**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

1-27-12



# SOIL BORING LOG

Date 07/05/11

ROUTE FAP 809 DESCRIPTION Box Culvert - IL 158 over Unnamed Creek LOGGED BY KEG  
SECTION 135-N LOCATION IL 158 over Unnamed Creek  
COUNTY St. Clair DRILLING METHOD CME 55 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	D	B	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.	D	B	U	M	
082-0400 (EX), 082-2045 (PR)	51+22	B-1	50+97.25	49 ft L	486.4 ft	(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft	ft		(ft)	(/6")	(tsf)	(%)	
Topsoil, grass										465.9											
FILL: Brown silty clay, trace fine sand, roots, and organics (A-6)						485.4	1		24									WOH			33
FILL: Brown silt, trace fine sand, roots, and organics (A-4)						483.4	2		25									WOH			
SILT: Gray (A-4)						480.9	1		22									WOH	0.3		35
Trace fine sand and organics							2														
SAND: Gray, fine to coarse, trace gravel, interbedded with gray silt (A-3)						458.4	1		30									WOH			20
Auger refusal at 31.0 ft.						455.0		2.0		28											
SILTSTONE: Gray, trace gravel						453.9		0.8													10
Boring terminated at 32.5 ft.																					
CLAYEY SAND: Grayish brown, fine to medium (A-2)						470.4	1		26												
Becomes brown, with gray silt, organic odor							2														

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



# SOIL BORING LOG

Date 07/05/11

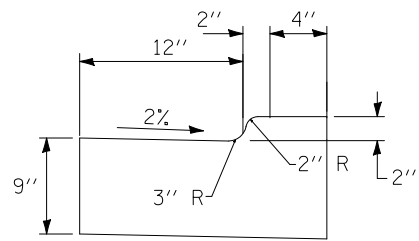
ROUTE FAP 809 DESCRIPTION Box Culvert - IL 158 over Unnamed Creek LOGGED BY KEG  
SECTION 135-N LOCATION IL 158 over Unnamed Creek  
COUNTY St. Clair DRILLING METHOD CME 55 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	D	B	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.	D	B	U	M	
082-0400 (EX), 082-2045 (PR)	51+22	B-2	50+86.25	62 ft R	485.9 ft	(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft	ft		(ft)	(/6")	(tsf)	(%)	
Topsoil, grass										484.9											
FILL: Grayish brown silt (A-4) and silty clay (A-6), trace sand, crushed rock, and roots						482.9	1	1.0	25												
SILT: Gray and brown, trace fine sand and iron stains (A-4)						482.9	2		25												
Becomes gray							1		36												
SILTY CLAY: Gray, trace fine sand (A-6)						477.9	1	0.2	36												
Auger refusal at 19.0 ft.						472.9		0.7	28												
CLAY: Gray and brown, trace sand and gravel (A-7)						472.9	1	0.9	16												
SILTY SHALE: Brown, weathered						470.4	8		18												
SHALE: Gray, weathered						467.9	14		11												
Auger refusal at 19.0 ft.						466.7		50/3"													
Boring terminated at 19.25 ft.																					

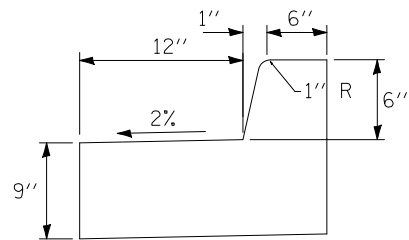
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



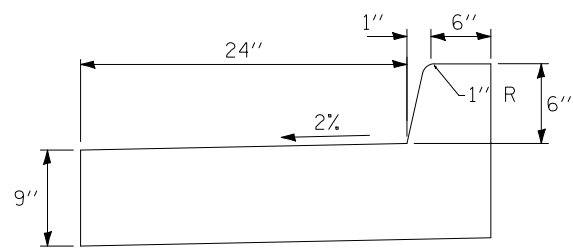




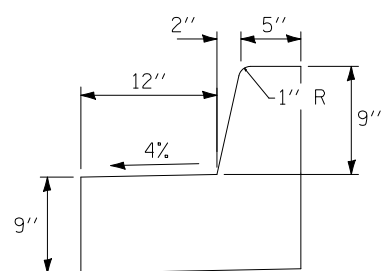
COMBINATION CONCRETE CURB & GUTTER,  
TYPE M-2.12, SPECIAL



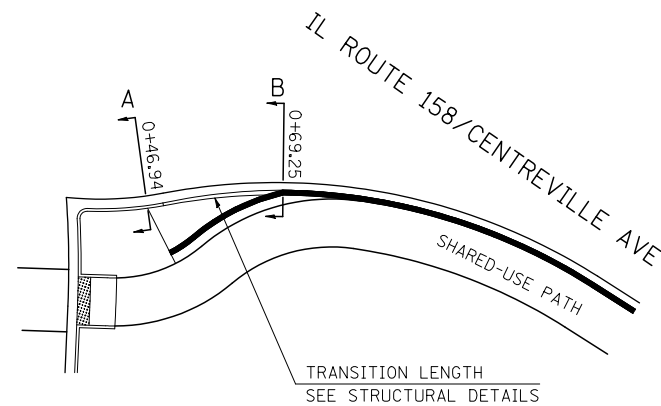
COMBINATION CONCRETE CURB & GUTTER,  
TYPE B-6.12, SPECIAL



COMBINATION CONCRETE CURB & GUTTER,  
TYPE B-6.24, SPECIAL



COMBINATION CONCRETE CURB & GUTTER,  
TYPE B-9.12, SPECIAL



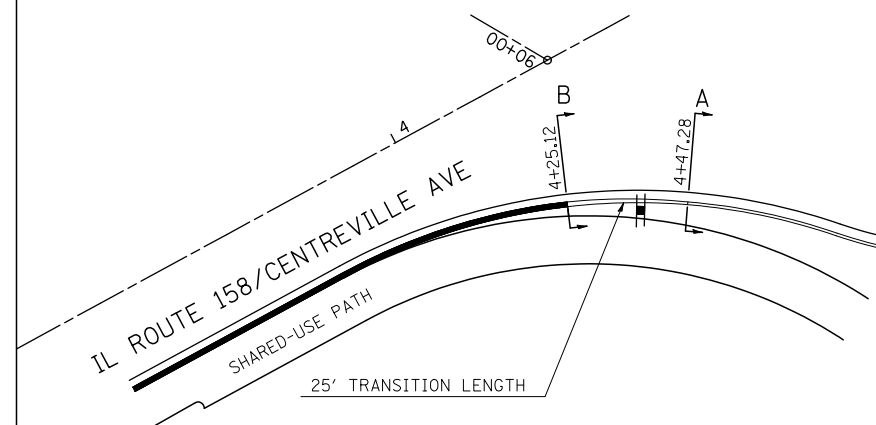
PROPOSED BARRIER WALL  
& RAILING  
SEE STRUCTURAL DETAILS

SECTION B VARIES

PROFILE MATCHING  
CCC&G TYPE B-6.24

SECTION A VARIES

• NOTE: STATIONS ARE TO BACK OF CURB



COMBINATION CONCRETE CURB & GUTTER PROFILE TRANSITION TO BARRIER WALL

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HORNER &  
SHIRIN, INC.  
ENGINEERS

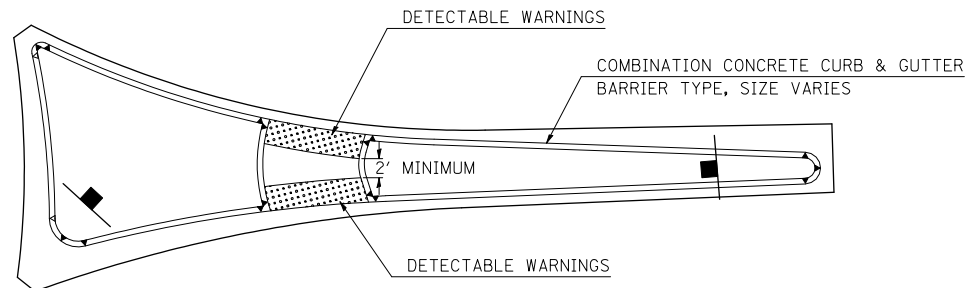
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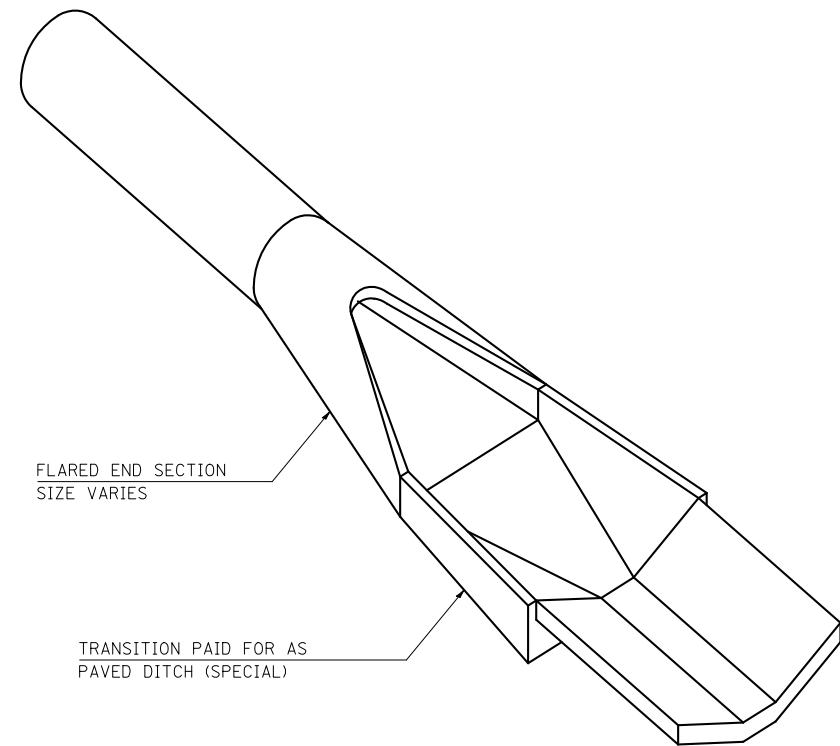
① F.A.P. RTE 809 / F.A.U. RTE 9251 / F.A.U. RTE 9269

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 76D06
ILLINOIS FED. AID PROJECT				

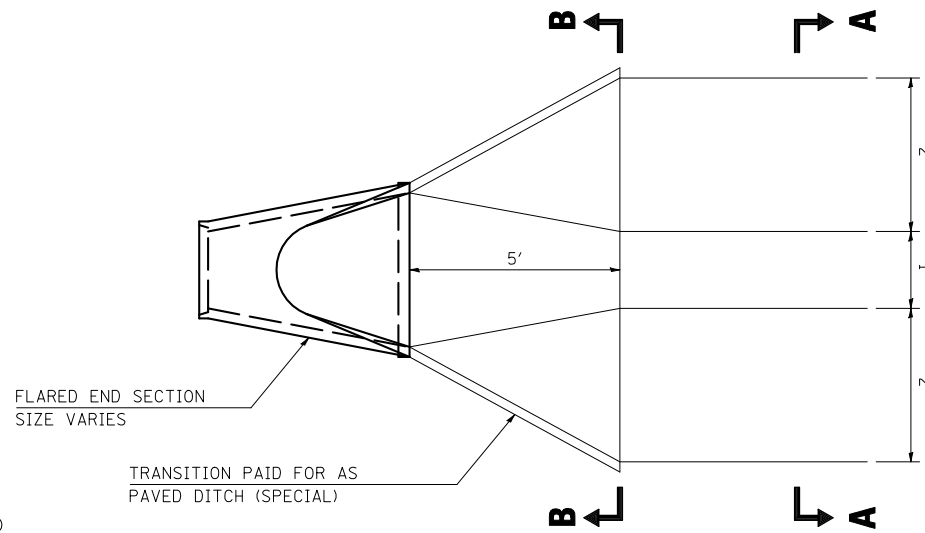
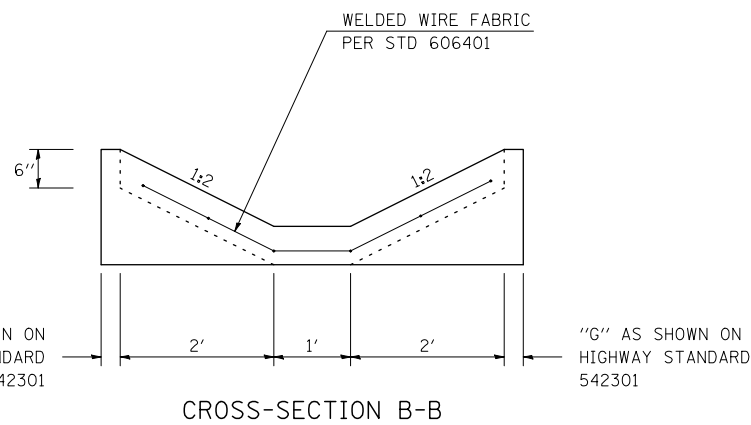




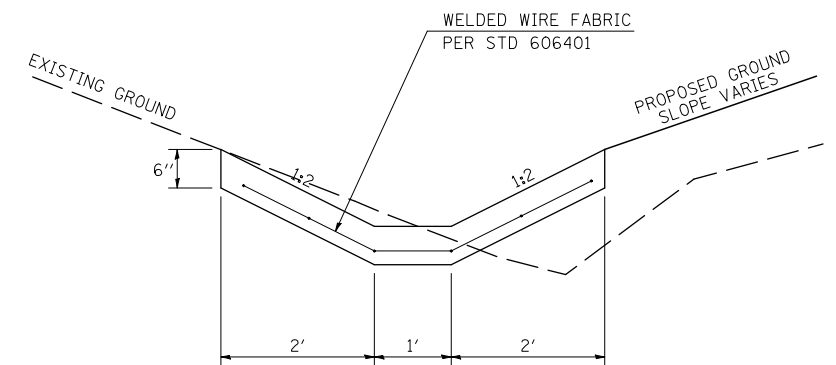
TYPICAL SPLITTER ISLAND OR MEDIAN REFUGE  
NTS



ISOMETRIC VIEW



TRANSITION DETAIL  
FLARED END SECTION  
(SIZE VARIES)



CONCRETE AREA = 0.278 SQ YD  
CROSS-SECTION A-A

PAVED DITCH (SPECIAL)

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HORNER &  
SHIRIN, INC.  
ENGINEERS

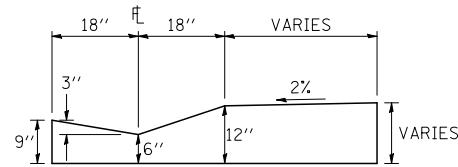
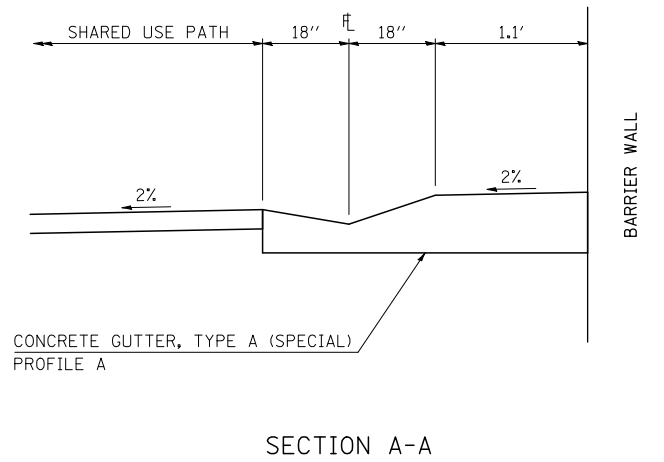
DETAILS

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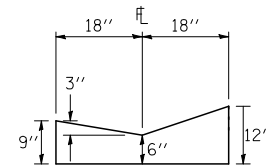
① F.A.P. RTE 809 / F.A.U. RTE 9251 / F.A.U. RTE 9269

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76D06				
ILLINOIS FED. AID PROJECT				

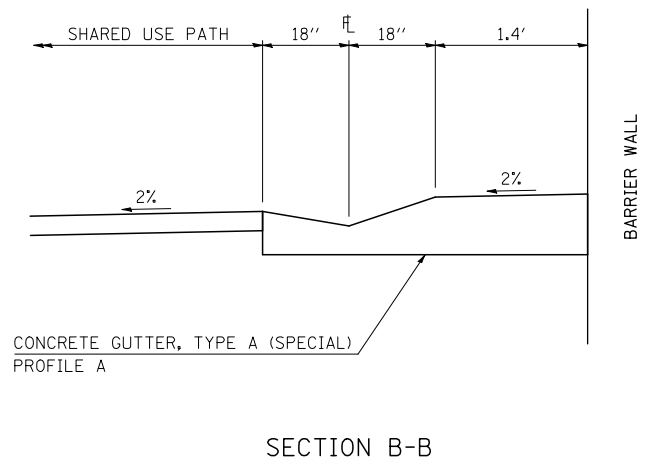
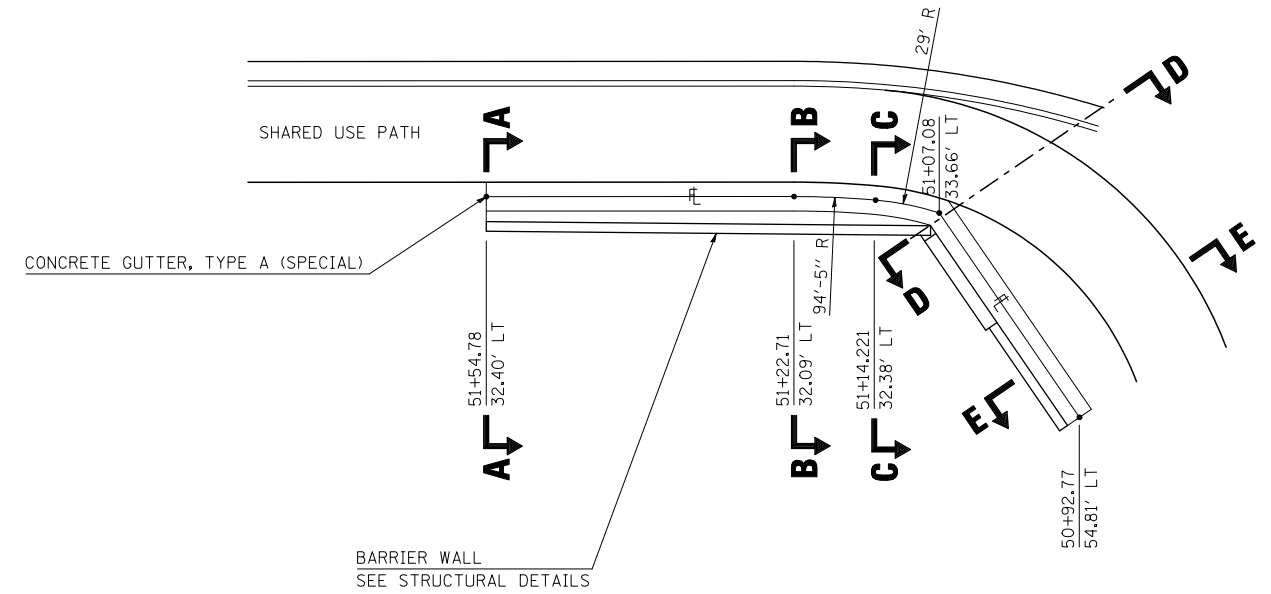
IL ROUTE 158



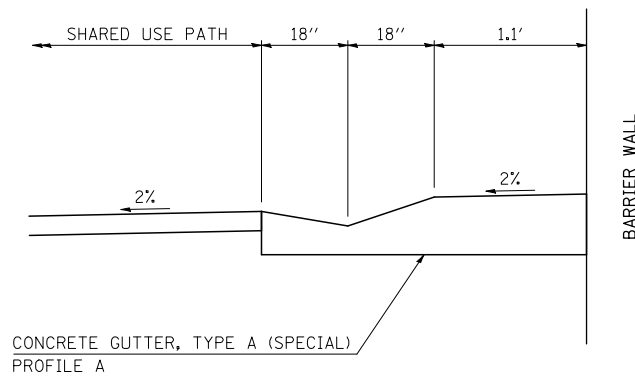
GUTTER PROFILE A



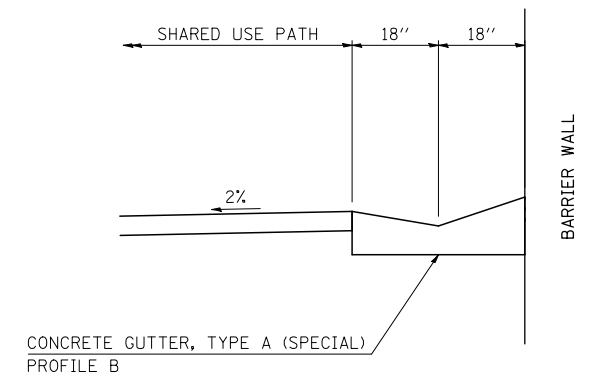
GUTTER PROFILE B



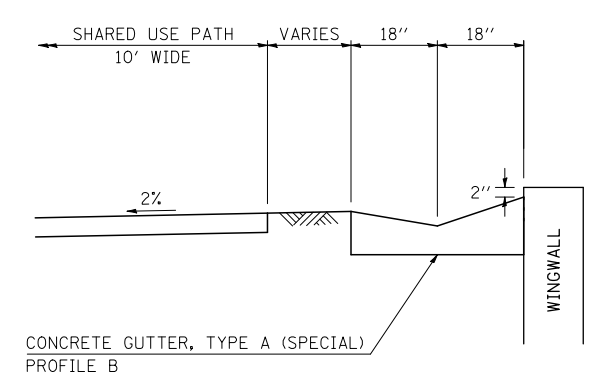
SECTION B-B



SECTION C-C



SECTION D-D



SECTION E-E

CONCRETE GUTTER, TYPE A (SPECIAL)  
DOWNSTREAM SIDE OF SN 082-2045

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HORNER &  
SHIRIN, INC.  
ENGINEERS

DETAILS

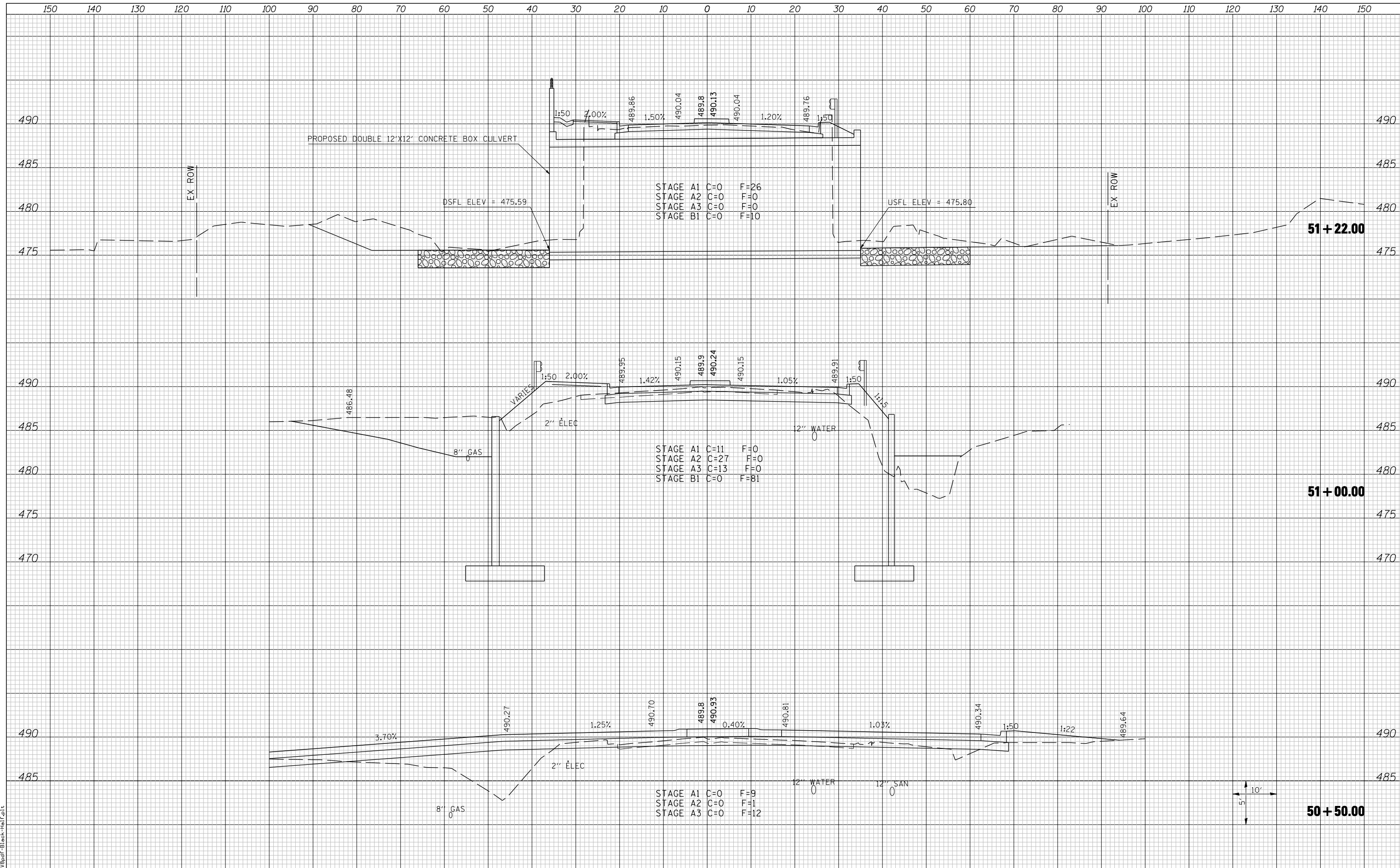
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① F.A.P. RTE 809 / F.A.U. RTE 9251 / F.A.U. RTE 9269

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
①	135-N	ST. CLAIR	206	166
CONTRACT NO. 76D06			ILLINOIS FED. AID PROJECT	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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FINAL SURVEY	
NOTE BOOK	
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DATE	
BY	
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NOTE BOOK	
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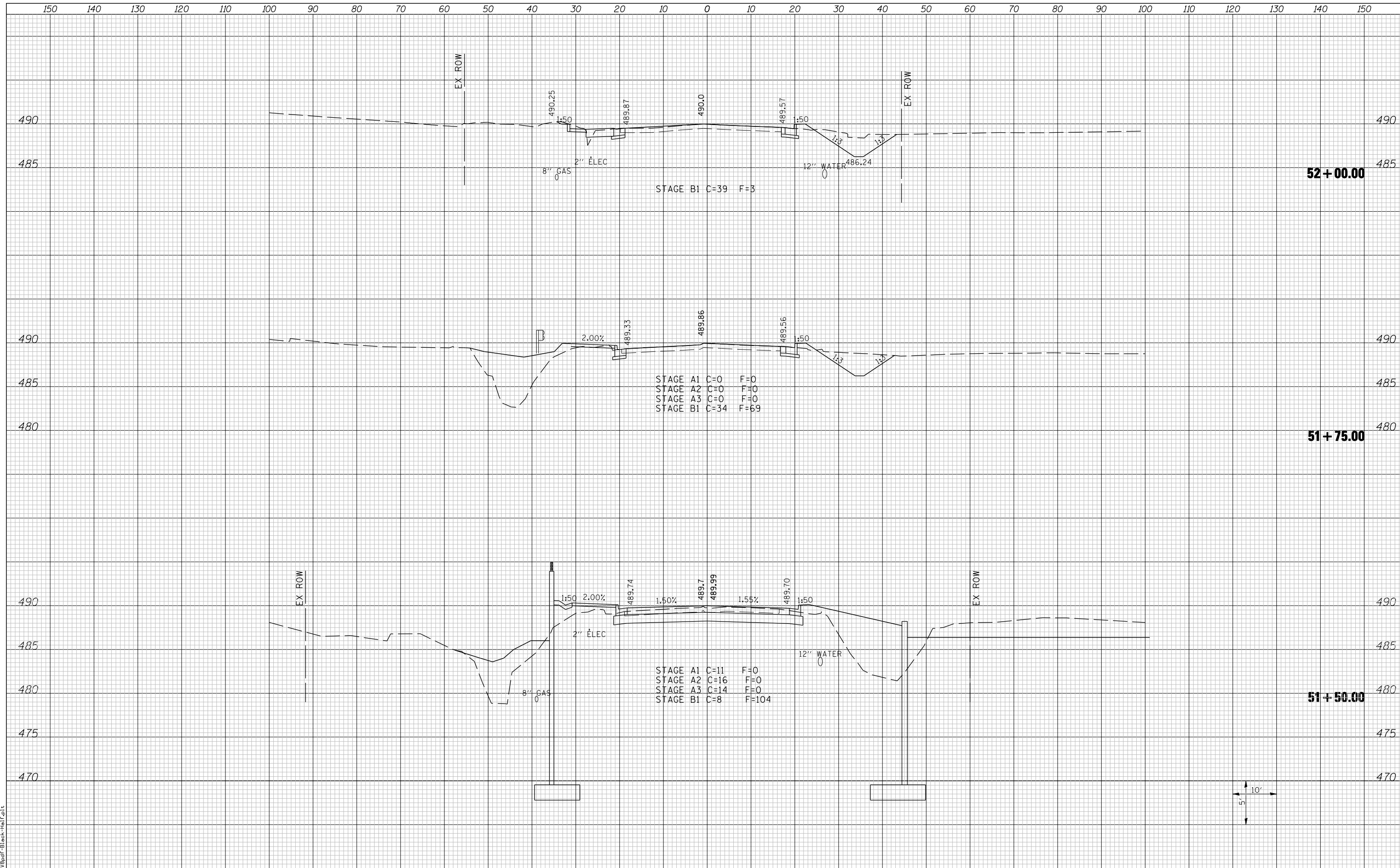


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		DRAWN -	REVISED -			①	135-N	ST. CLAIR	206	167		
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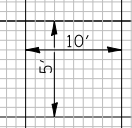
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BY	
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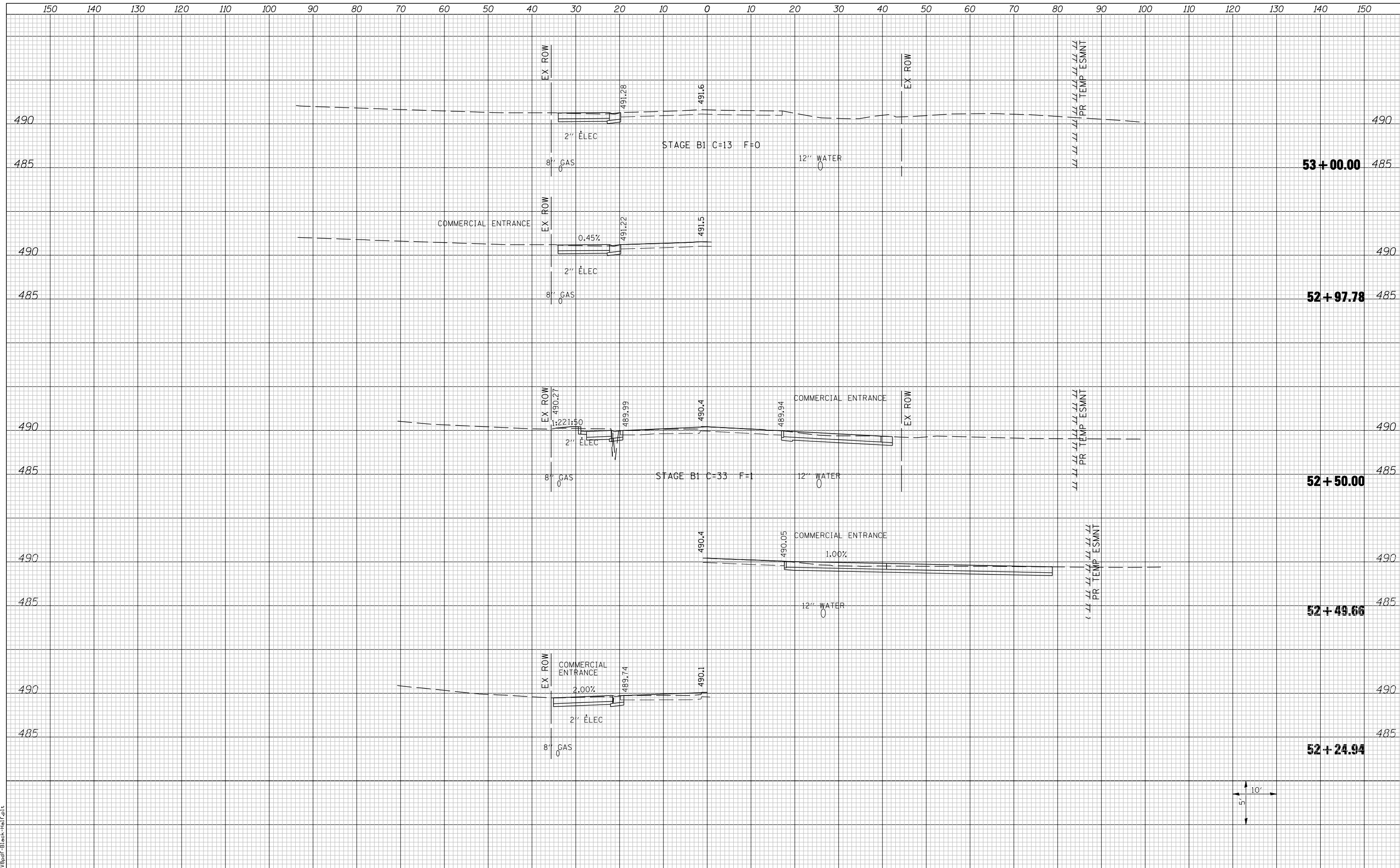
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		DRAWN -	REVISED -			①	135-N	ST. CLAIR	206	168		
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DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
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DATE	
BY	
SURVEYED	
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NO.	



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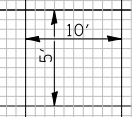
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



**CROSS SECTIONS**  
 FAP 809  
 (IL 158 SOUTH)

SCALE: SHEET NO. 3 OF 3 SHEETS STA. 52+24.94 TO STA. 53+00.00

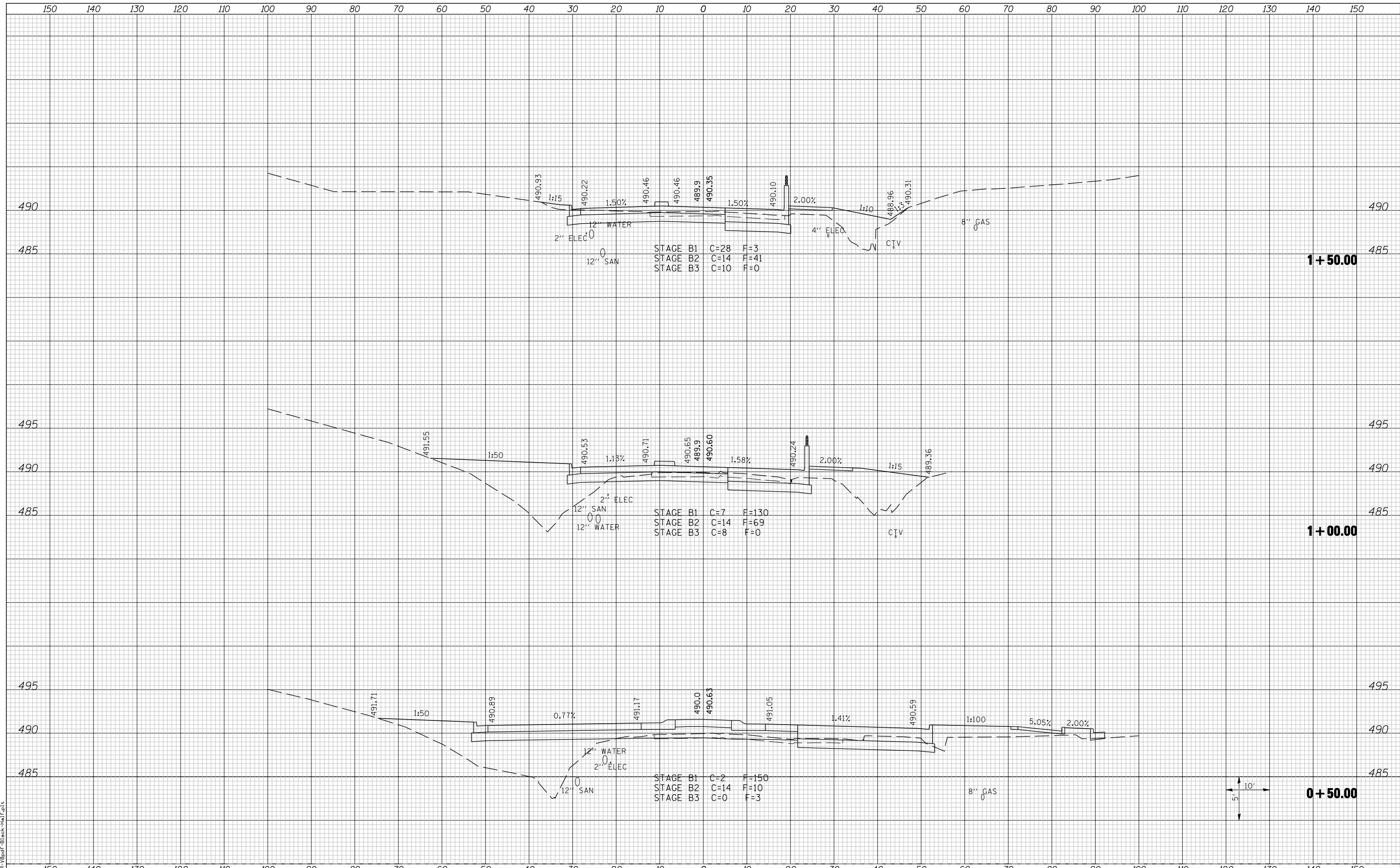
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①	F.A.P. RTE 809 / F.A.U. RTE 9251	CONTRACT NO.	76D06	
/ F.A.U. RTE 9269 ILLINOIS FED. AID PROJECT				



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
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DATE	
BY	
SURVEYED	
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 PLOT DRIVER = P:\1738pd\FBlack-Half.plt



FILE NAME =	USER NAME = bertechmann	DESIGNED -	REVISD -
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	PLOT SCALE = 20.0000 ' / IN.	CHECKED -	REVISD -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**HORNER & SHIRIN, INC.**  
**ENGINEERS**

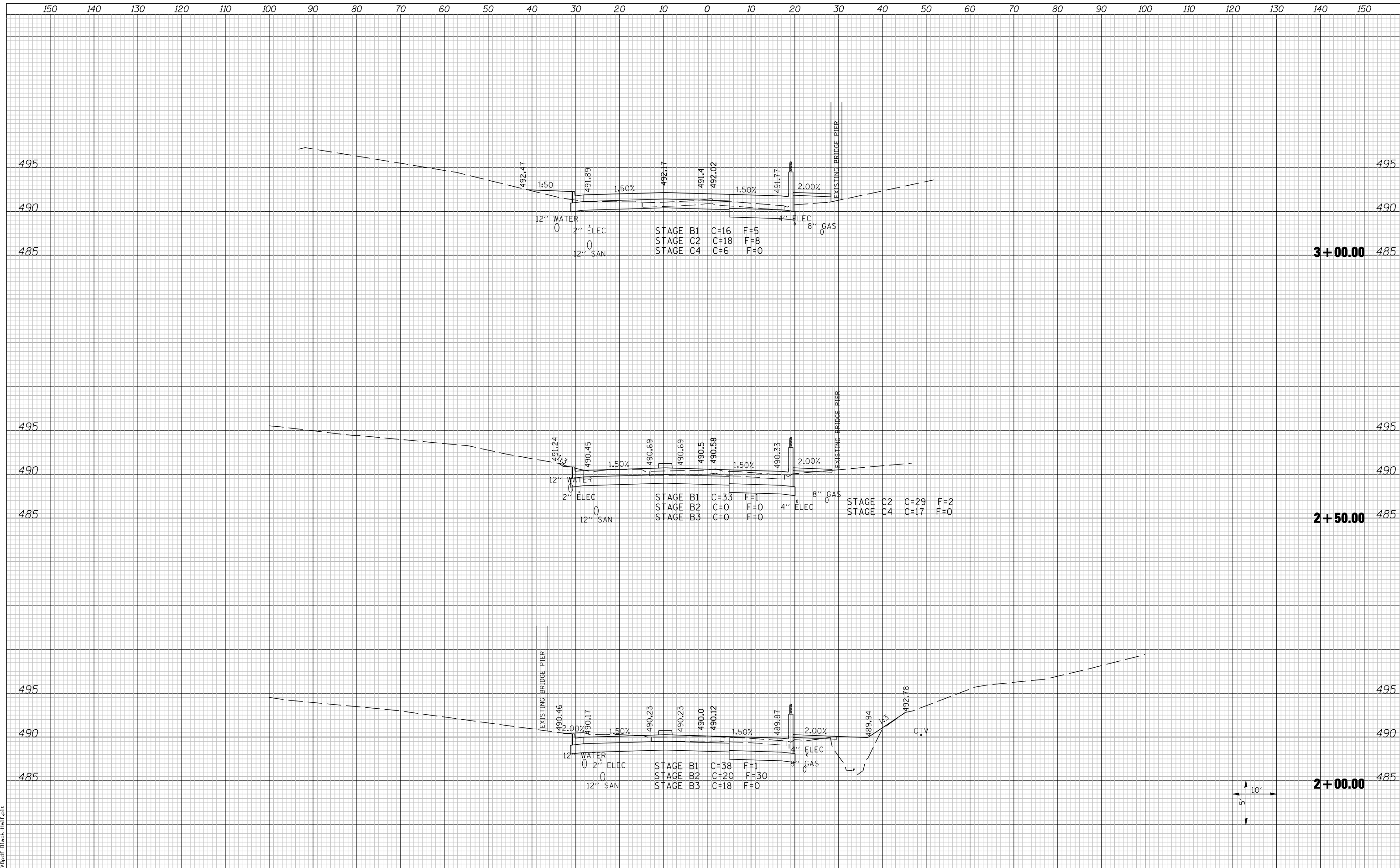
**CROSS SECTIONS**  
 FAP 809, FAU 9269  
 (BETWEEN ROUNDABOUTS)

SCALE: SHEET NO. 1 OF 4 SHEETS STA. +50.00 TO STA. 1+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
① F.A.P. RTE 809 / F.A.U. RTE 9251	135-N	ST. CLAIR	206	170
/ F.A.U. RTE 9269 ILLINOIS FED. AID PROJECT			CONTRACT NO. 76D06	

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LAST SAVED = 3/20/2012  
 PEN TABLE = 10-Half-103  
 PLOT DRIVER = P:\3rdP\Black-Half.plt

FILE NAME =	USER NAME = beriechmann	DESIGNED -	REVISD -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>CROSS SECTIONS</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISD -			135-N	ST. CLAIR	206	171			
		CHECKED -	REVISD -			F.A.P. RTE 809 / F.A.U. RTE 9251		CONTRACT NO. 76D06				
		DATE -	REVISD -			/ F.A.U. RTE 9269 ILLINOIS FED. AID PROJECT						
PLOT SCALE = 20.0000 "/>				SCALE:		SHEET NO. 2 OF 4 SHEETS		STA. 2+00.00 TO STA. 3+00.00				

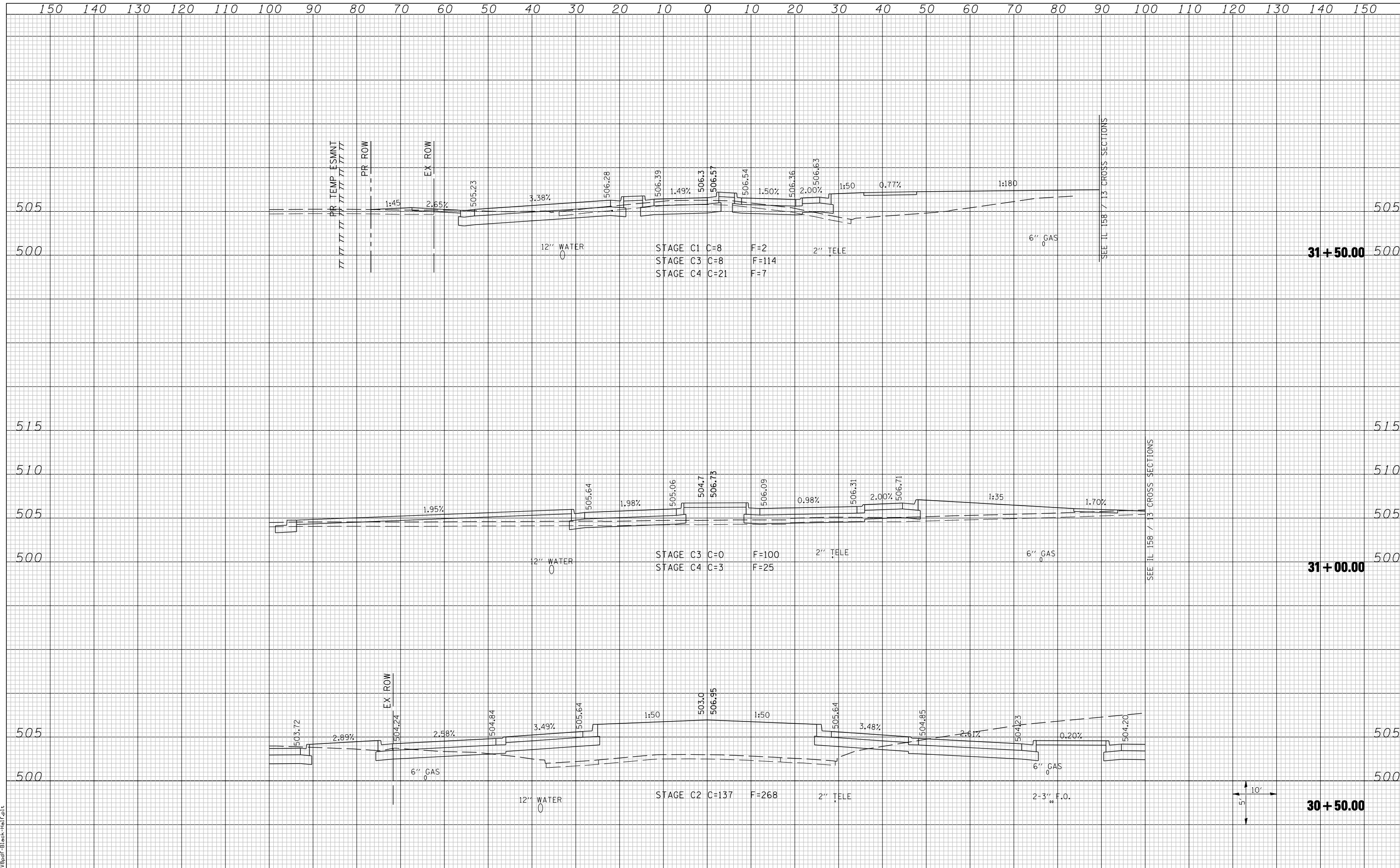






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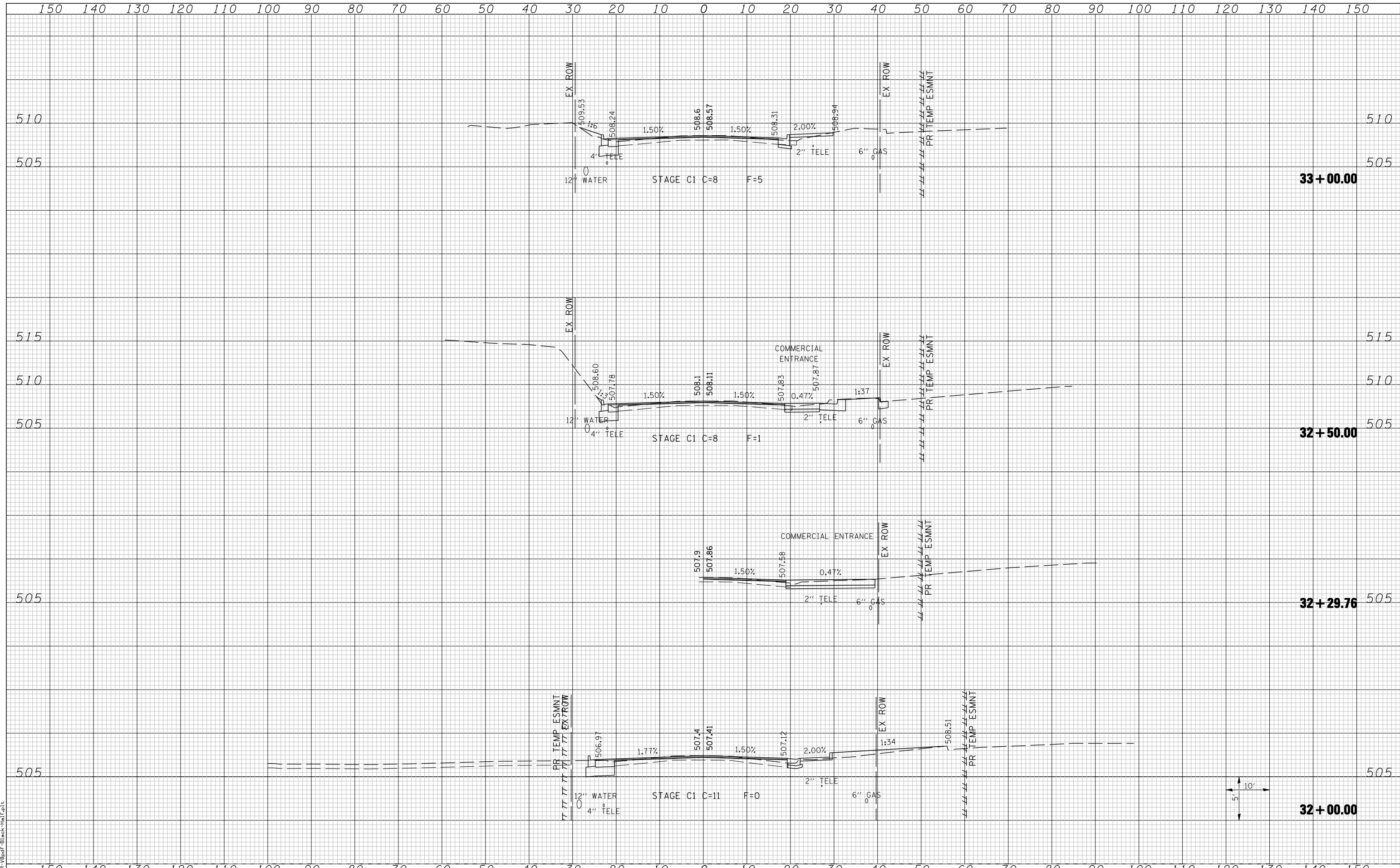
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 PEN TABLE = 10-Horner-103  
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FILE NAME =	USER NAME = beriechmann	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>HORNER &amp; SHIRIN, INC.</b> <b>ENGINEERS</b>	<b>CROSS SECTIONS</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					135-N	ST. CLAIR	206	174	
		CHECKED -	REVISED -			SCALE:	SHEET NO. 1 OF 4 SHEETS	STA. 30+50.00	TO STA. 31+50.00	CONTRACT NO. 76D06		
		DATE -	REVISED -			/ F.A.U. RTE 9269 ILLINOIS FED. AID PROJECT						

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LAST SAVED = 3/20/2012  
 PEN TABLE = 10-Hair-103  
 PLOT DRIVER = P:\3d\p1\Black-Hair.plt



FILE NAME =	USER NAME = beriechmann	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

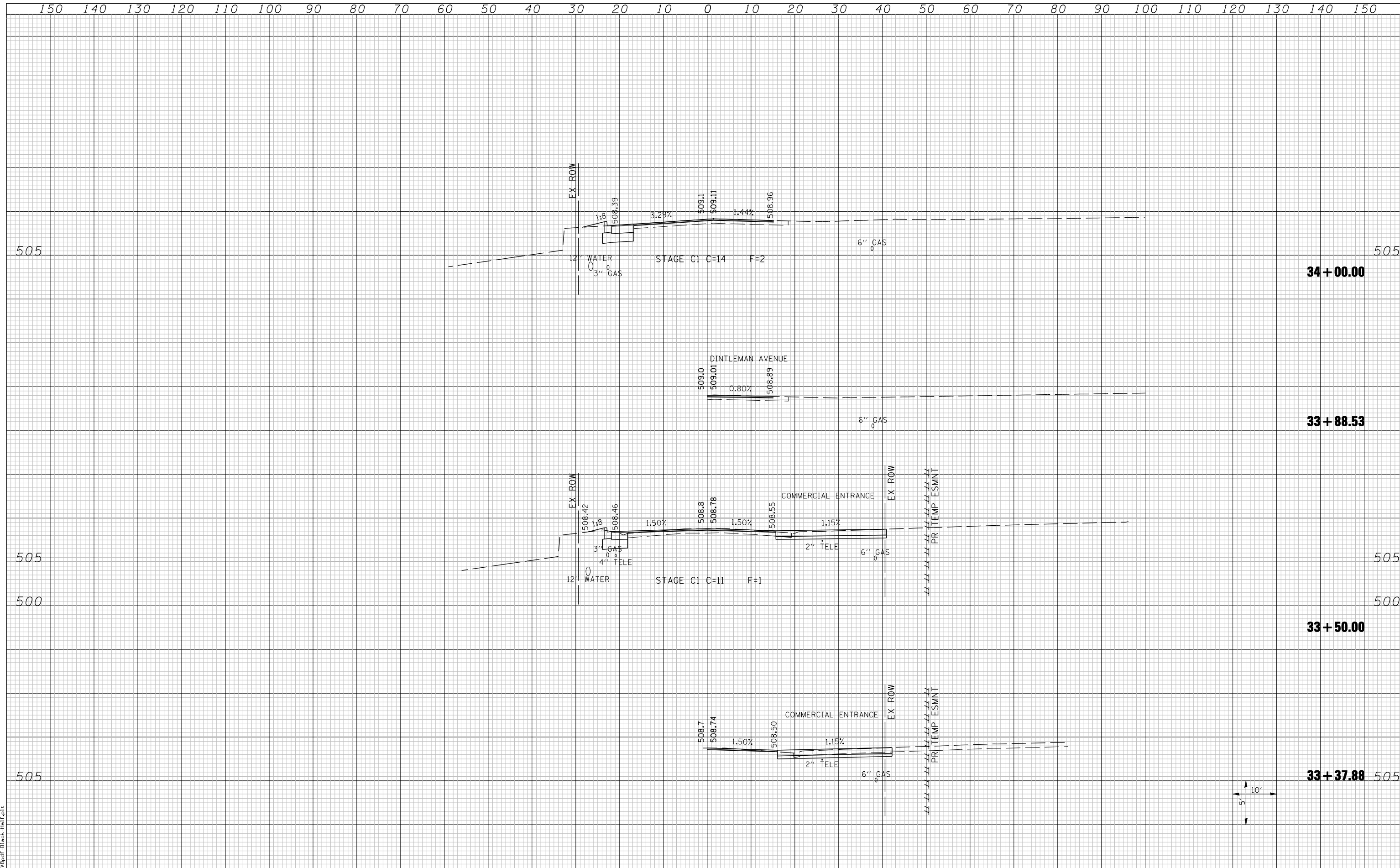
**HORNER & SHIRN, INC**  
**ENGINEERS**

**CROSS SECTIONS**  
CENTREVILLE AVENUE  
(NORTH OF NORTHERN ROUNDABOUT)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
① F.A.P. RTE 809 / F.A.U. RTE 9251	135-N	ST. CLAIR	206	175
/ F.A.U. RTE 9269 ILLINOIS FED. AID PROJECT				

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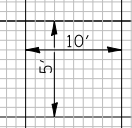
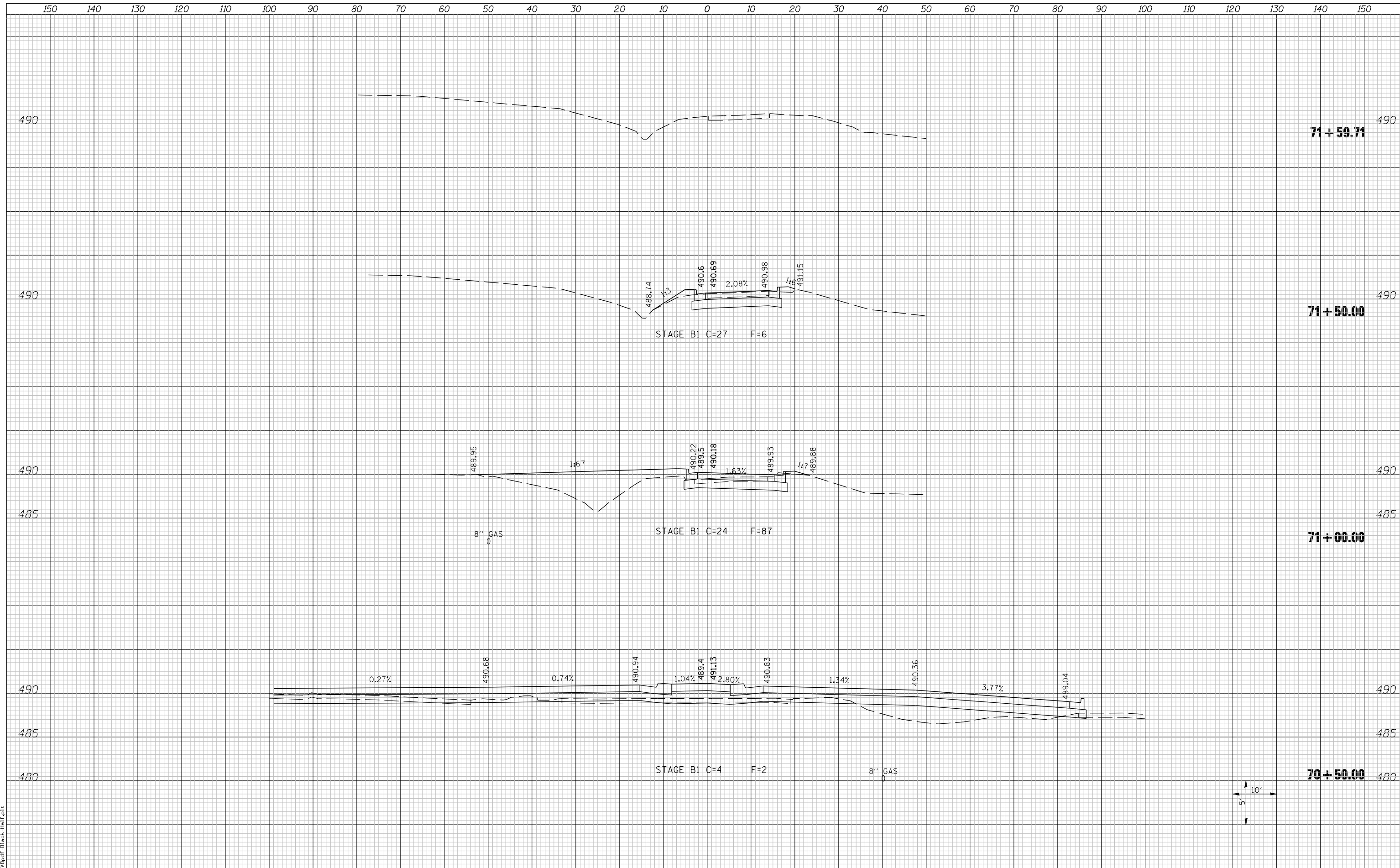
LAST SAVED = 3/20/2012  
 PEN TABLE = 10-Half-103  
 PLOT DRIVER = P11-32pd-F-Black-Half.plt

FILE NAME =	USER NAME = beriechmann	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>CROSS SECTIONS</b> CENTREVILLE AVENUE (NORTH OF NORTHERN ROUNDABOUT)		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	h:\0906600\0906603\ced\t\plans\203-0876D06-SH-XsSht-Centreville.dgn	DRAWN -	REVISED -					①	135-N	ST. CLAIR	206	176
	PLOT SCALE = 20.0000 ' / IN.	CHECKED -	REVISED -					① F.A.P. RTE 809 / F.A.U. RTE 9251		CONTRACT NO. 76D06		
	PLOT DATE = 3/20/2012 4:13:15 PM	DATE -	REVISED -					/ F.A.U. RTE 9269 ILLINOIS FED. AID PROJECT				



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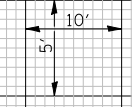
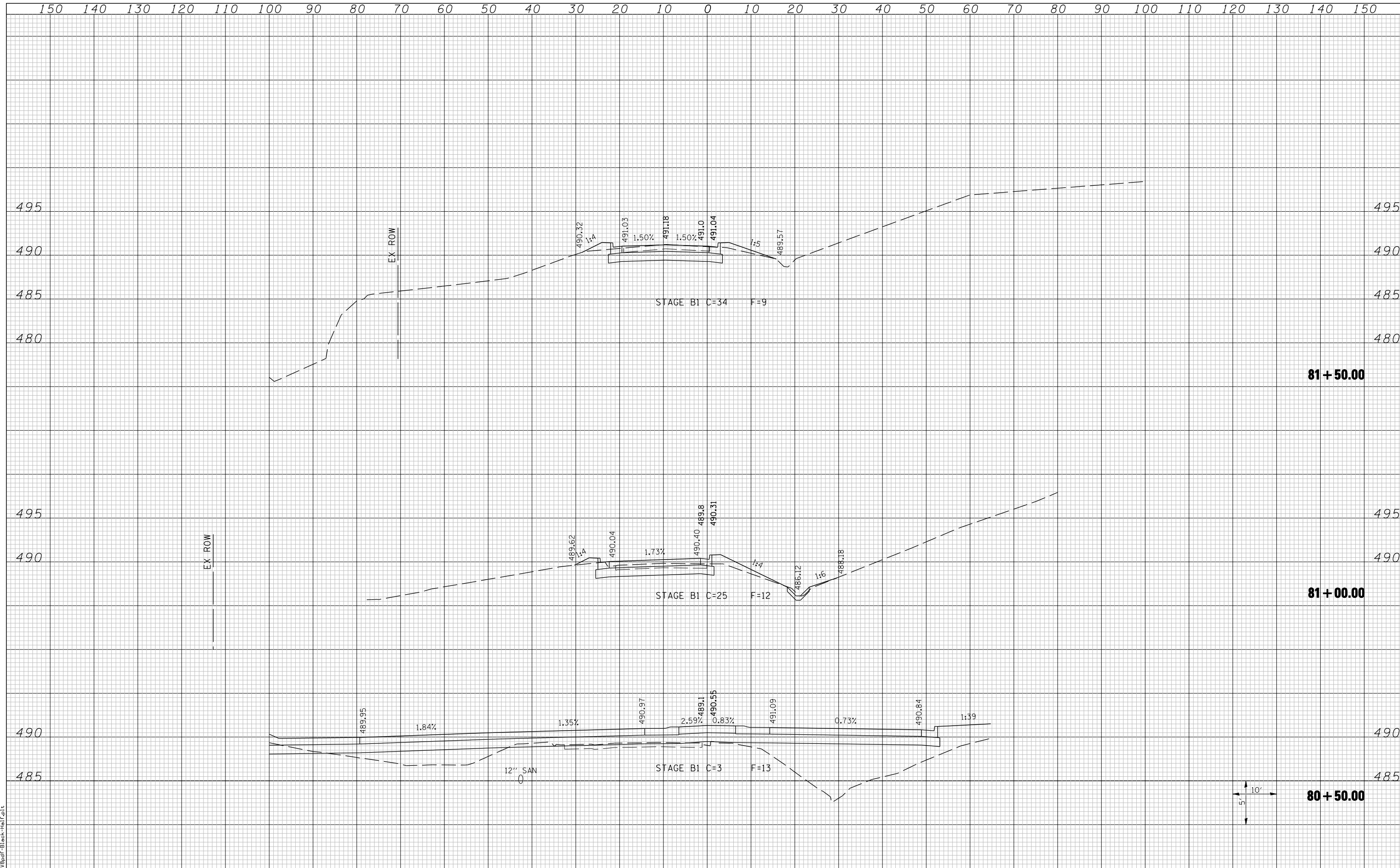


LAST SAVED = 3/20/2012  
 PEN TABLE = 10-Hair-103  
 PLOT DRIVER = P:\3rdP\Black-Hair.plt

FILE NAME =	USER NAME = bertechmann	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>CROSS SECTIONS</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			①	135-N	ST. CLAIR	206	178		
		CHECKED -	REVISED -			EASTBOUND IL ROUTE 15 ENTRANCE RAMP		① F.A.P. RTE 809 / F.A.U. RTE 9251	CONTRACT NO. 76D06			
		DATE -	REVISED -			SCALE:	SHEET NO. 1 OF 1 SHEETS	STA. 70+50.00 TO STA. 71+59.71	/ F.A.U. RTE 9269 ILLINOIS FED. AID PROJECT			

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LAST SAVED = 3/20/2012  
 PEN TABLE = 10-Half-103  
 PLOT DRIVER = P:\2012\Black-Half.plt

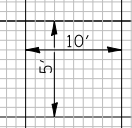
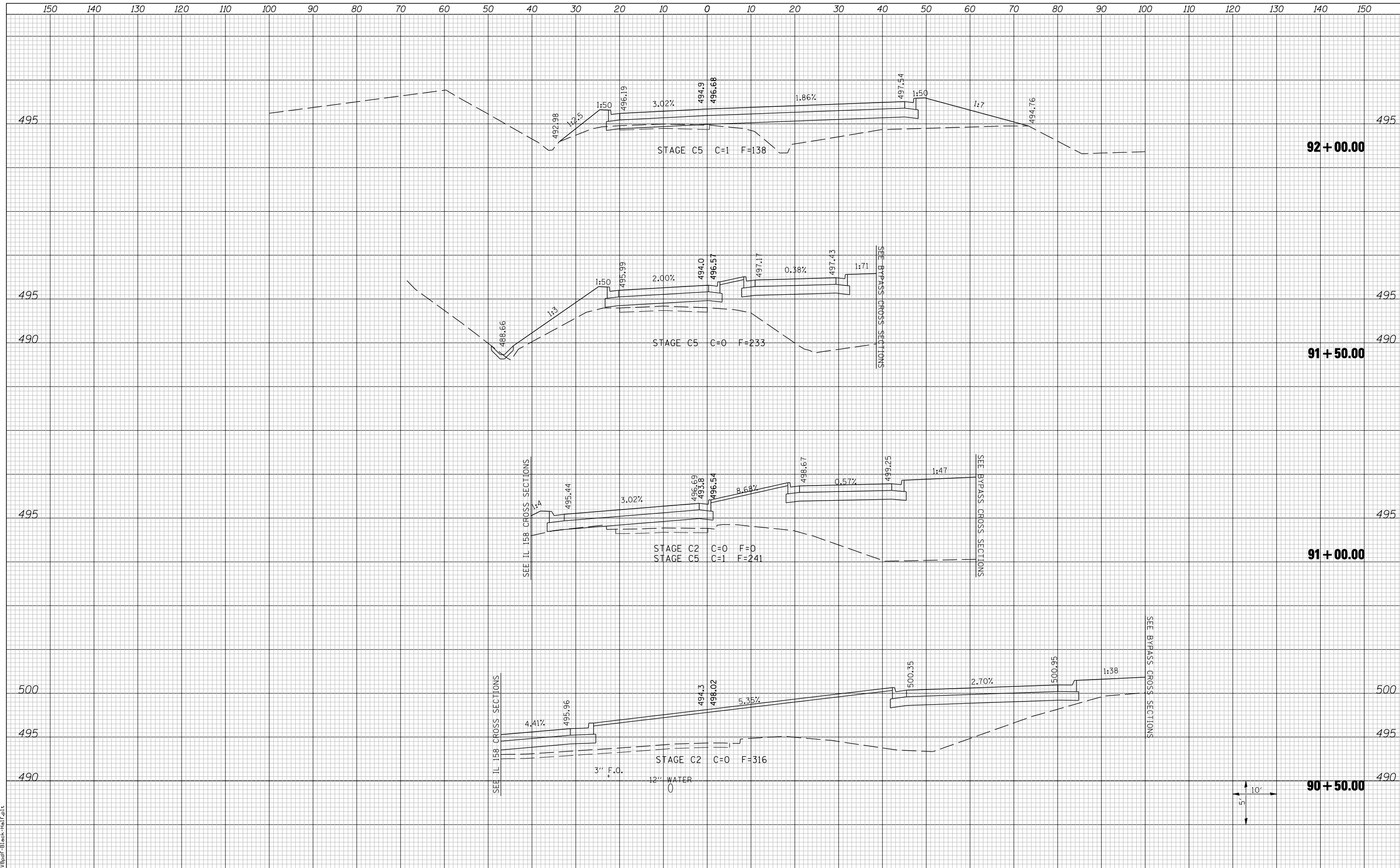
FILE NAME =	USER NAME = beriechmann	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>CROSS SECTIONS</b> EASTBOUND IL ROUTE 15 EXIT RAMP		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	h:\0906600\0906603\ced\plans\205-0876006-SH-Xs5ht-IL15EB-Exit.dgn	DRAWN -	REVISED -					①	135-N	ST. CLAIR	206	179
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -			① F.A.P. RTE 809 / F.A.U. RTE 9251				CONTRACT NO. 76D06		
	PLOT DATE = 3/20/2012 4:13:19 PM	DATE -	REVISED -			/ F.A.U. RTE 9269 ILLINOIS FED. AID PROJECT						





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FILE NAME =  
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 PLOT DATE = 3/20/2012 4:13:21 PM

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

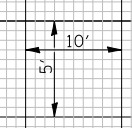
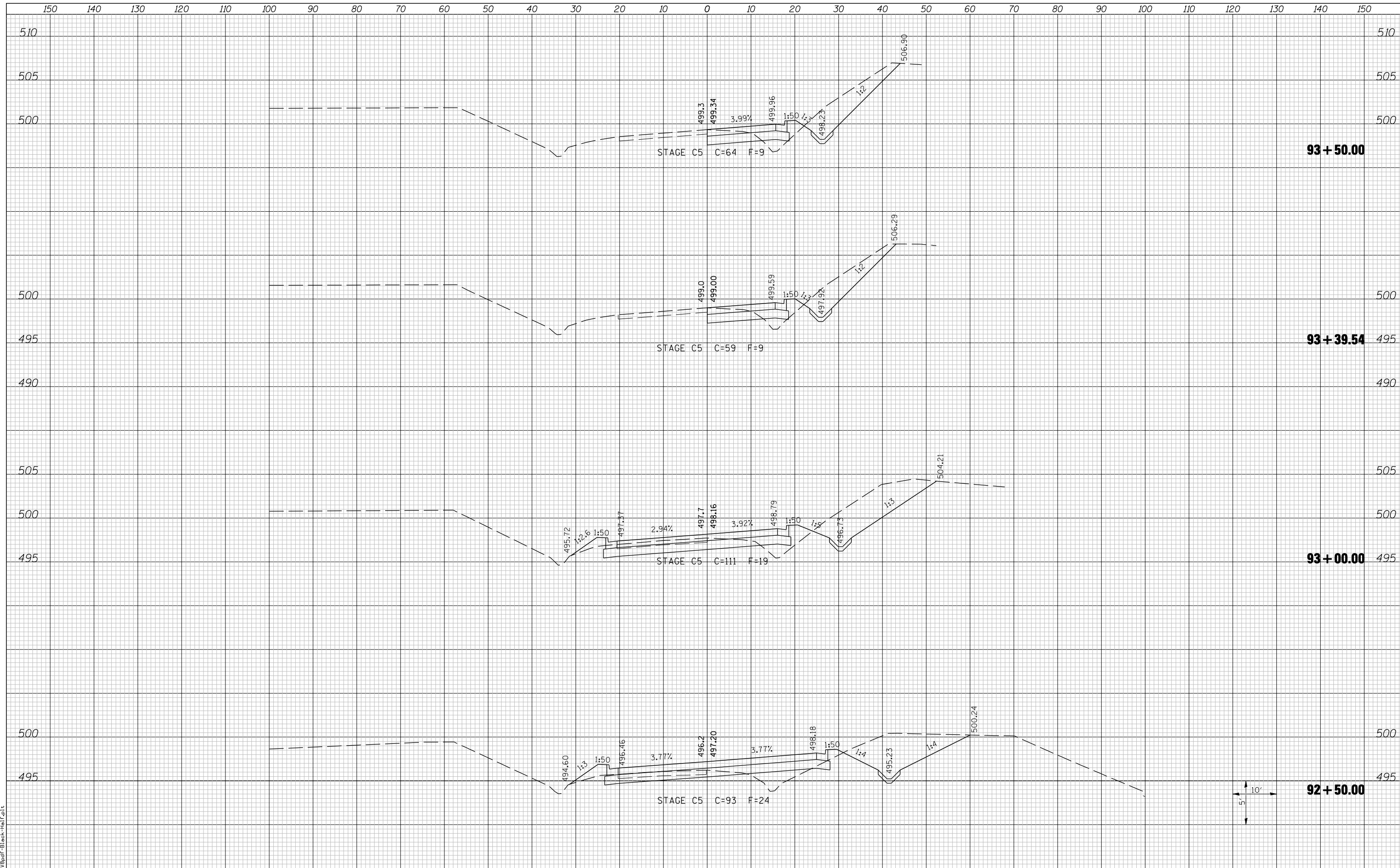


**CROSS SECTIONS**  
 WESTBOUND IL ROUTE 15 ENTRANCE RAMP  
 SCALE: SHEET NO. 1 OF 5 SHEETS STA. 90+50.00 TO STA. 92+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
① F.A.P. RTE 809 / F.A.U. RTE 9251	135-N	ST. CLAIR	206	181
/ F.A.U. RTE 9269 ILLINOIS FED. AID PROJECT			CONTRACT NO. 76D06	

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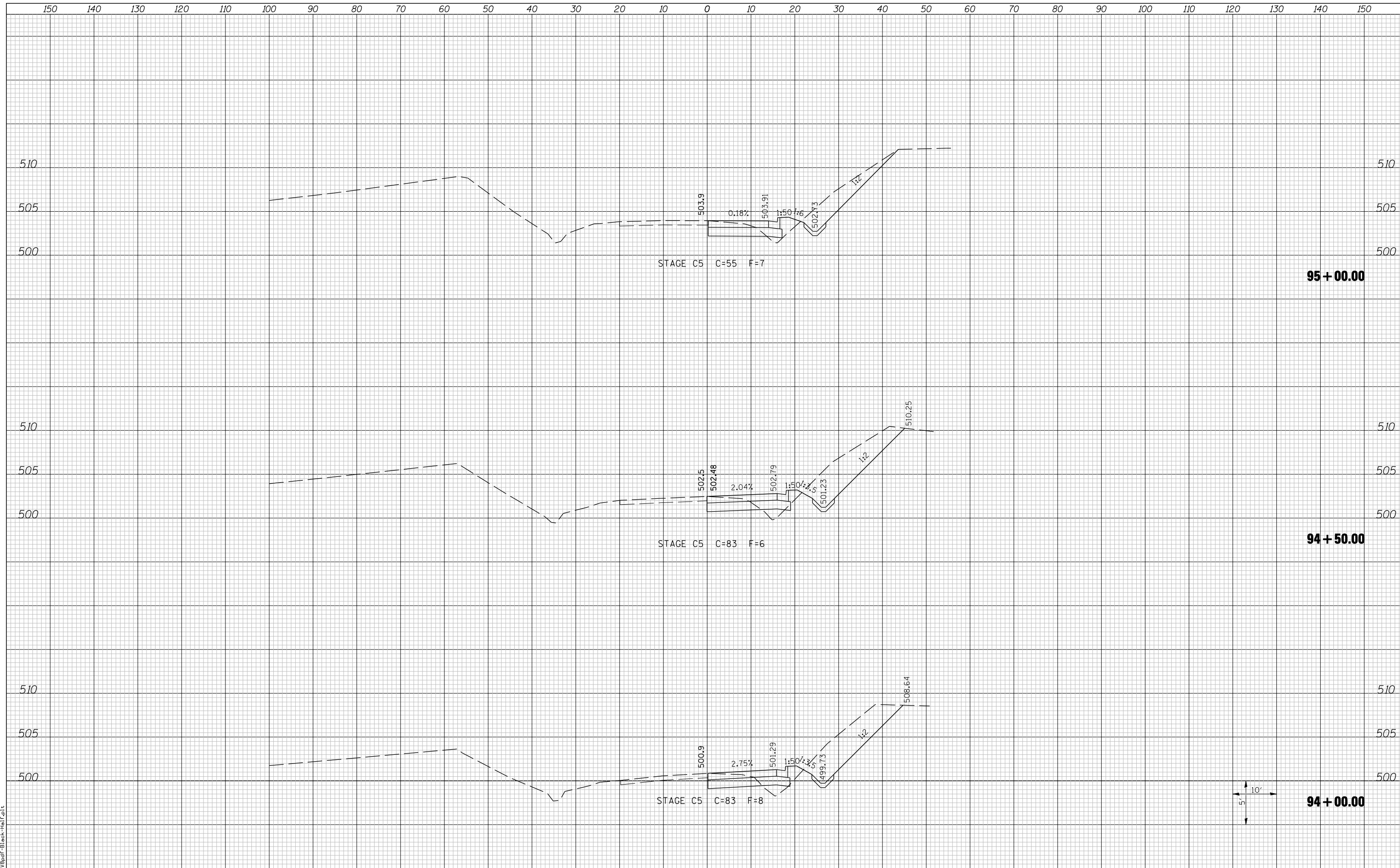


LAST SAVED = 3/20/2012  
 PEN TABLE = 10-Half-103  
 PLOT DRIVER = P:\385d\FBlack-Half.plt

FILE NAME =	USER NAME = beriechmann	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>CROSS SECTIONS</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			①	135-N	ST. CLAIR	206	182		
		CHECKED -	REVISED -			WESTBOUND IL ROUTE 15 ENTRANCE RAMP		① F.A.P. RTE 809 / F.A.U. RTE 9251	CONTRACT NO. 76D06			
		DATE -	REVISED -			SCALE:	SHEET NO. 2 OF 5 SHEETS	STA. 92+50.00	TO STA. 93+50.00		/ F.A.U. RTE 9269 ILLINOIS FED. AID PROJECT	

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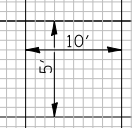
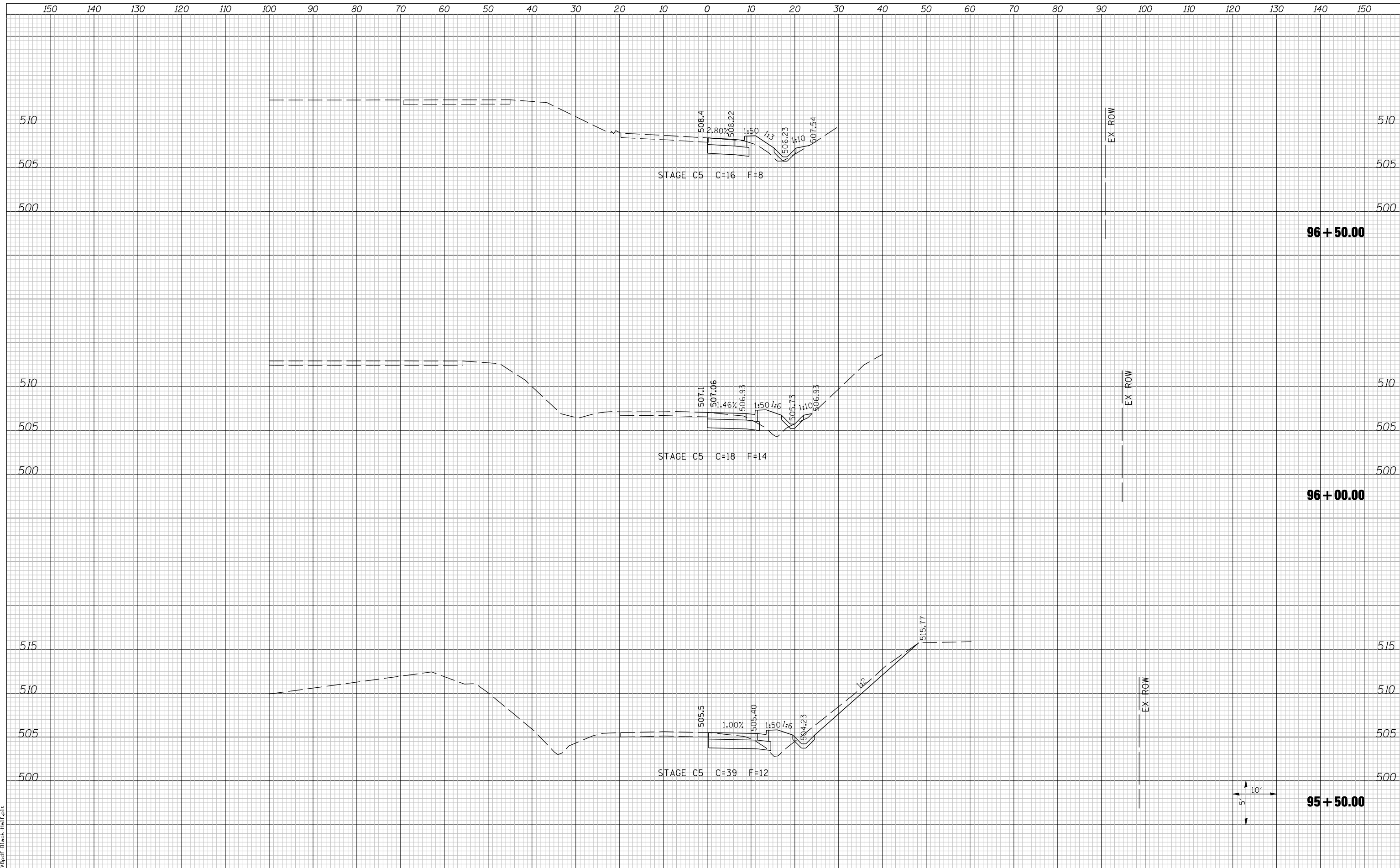


LAST SAVED = 3/20/2012  
 PEN TABLE = 10-Half-103  
 PLOT DRIVER = P:\395d\FBlack-Half.plt

FILE NAME =	USER NAME = beriechmann	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>CROSS SECTIONS</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	h:\0906600\0906603\ced\t\plans\206-0876006-SH-t-Xsht-IL15WB-Ent.dgn	DRAWN -	REVISED -			①	135-N	ST. CLAIR	206	183		
	PLOT SCALE = 20.0000 ' / IN.	CHECKED -	REVISED -			①	F.A.P. RTE 809 / F.A.U. RTE 9251	CONTRACT NO. 76D06				
	PLOT DATE = 3/20/2012 4:13:22 PM	DATE -	REVISED -			/ F.A.U. RTE 9269 ILLINOIS FED. AID PROJECT						
				SCALE:		SHEET NO. 3 OF 5 SHEETS	STA. 94+00.00 TO STA. 95+00.00					

DATE	
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FINAL SURVEY NO.	
SURVEYED PLOTTED AREAS CHECKED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	

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ORIGINAL SURVEY NO.	
SURVEYED PLOTTED AREAS CHECKED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	

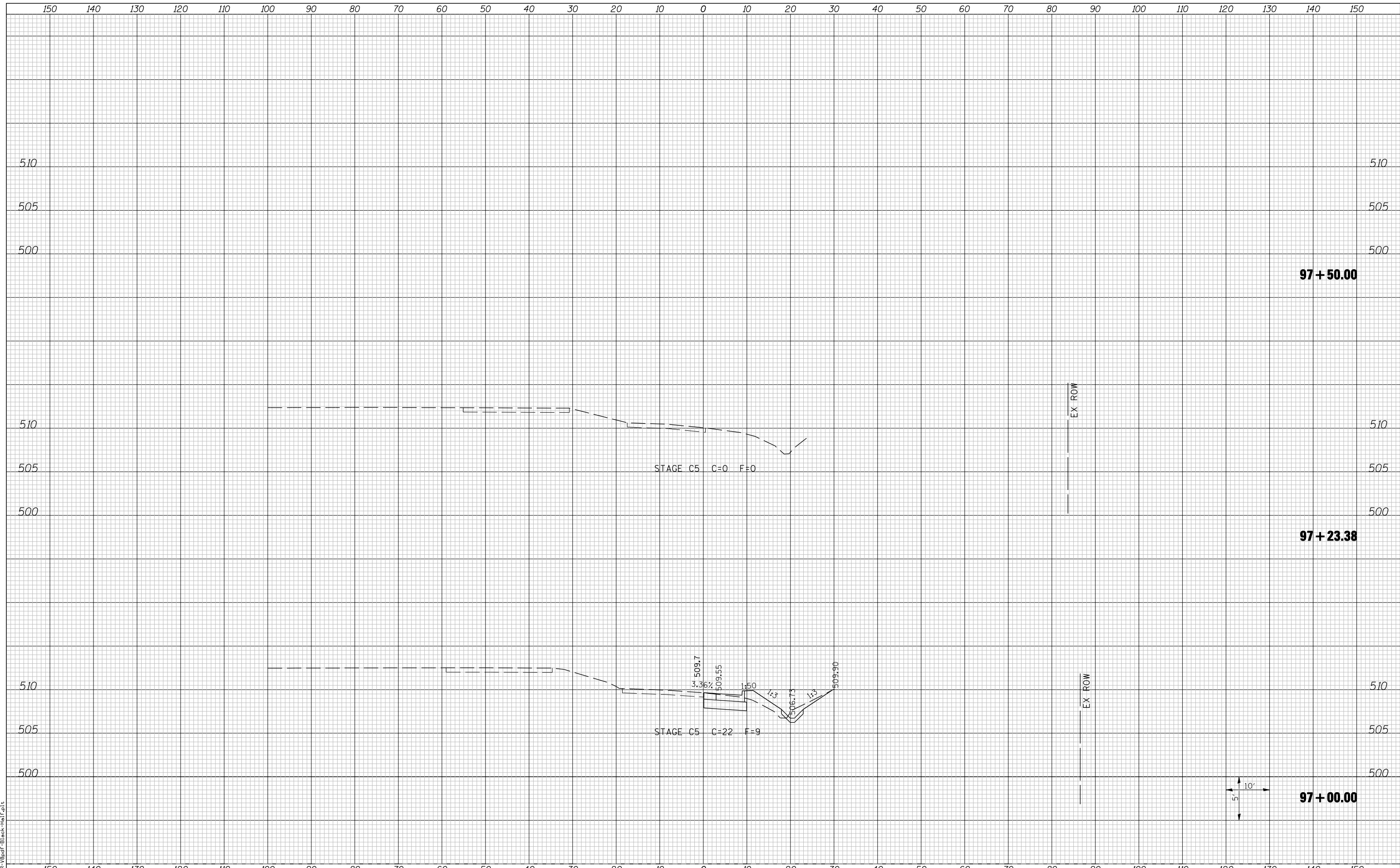


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 PLOT DRIVER = P:\3d\Plot-Block-Hor-1-63.plt

FILE NAME =	USER NAME = beretchmann	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>CROSS SECTIONS</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			①	135-N	ST. CLAIR	206	184		
		CHECKED -	REVISED -			WESTBOUND IL ROUTE 15 ENTRANCE RAMP		① F.A.P. RTE 809 / F.A.U. RTE 9251	CONTRACT NO. 76D06			
		DATE -	REVISED -			SCALE:	SHEET NO. 4 OF 5 SHEETS	STA. 95+50.00 TO STA. 96+50.00	/ F.A.U. RTE 9269 ILLINOIS FED. AID PROJECT			

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LAST SAVED = 3/20/2012  
 PEN TABLE = 10-Half-103  
 PLOT DRIVER = P:\3rdp\Black-Half.plt

FILE NAME =	USER NAME = beriechmann	DESIGNED -	REVISED -
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		CHECKED -	REVISED -
		DATE -	REVISED -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**



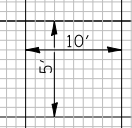
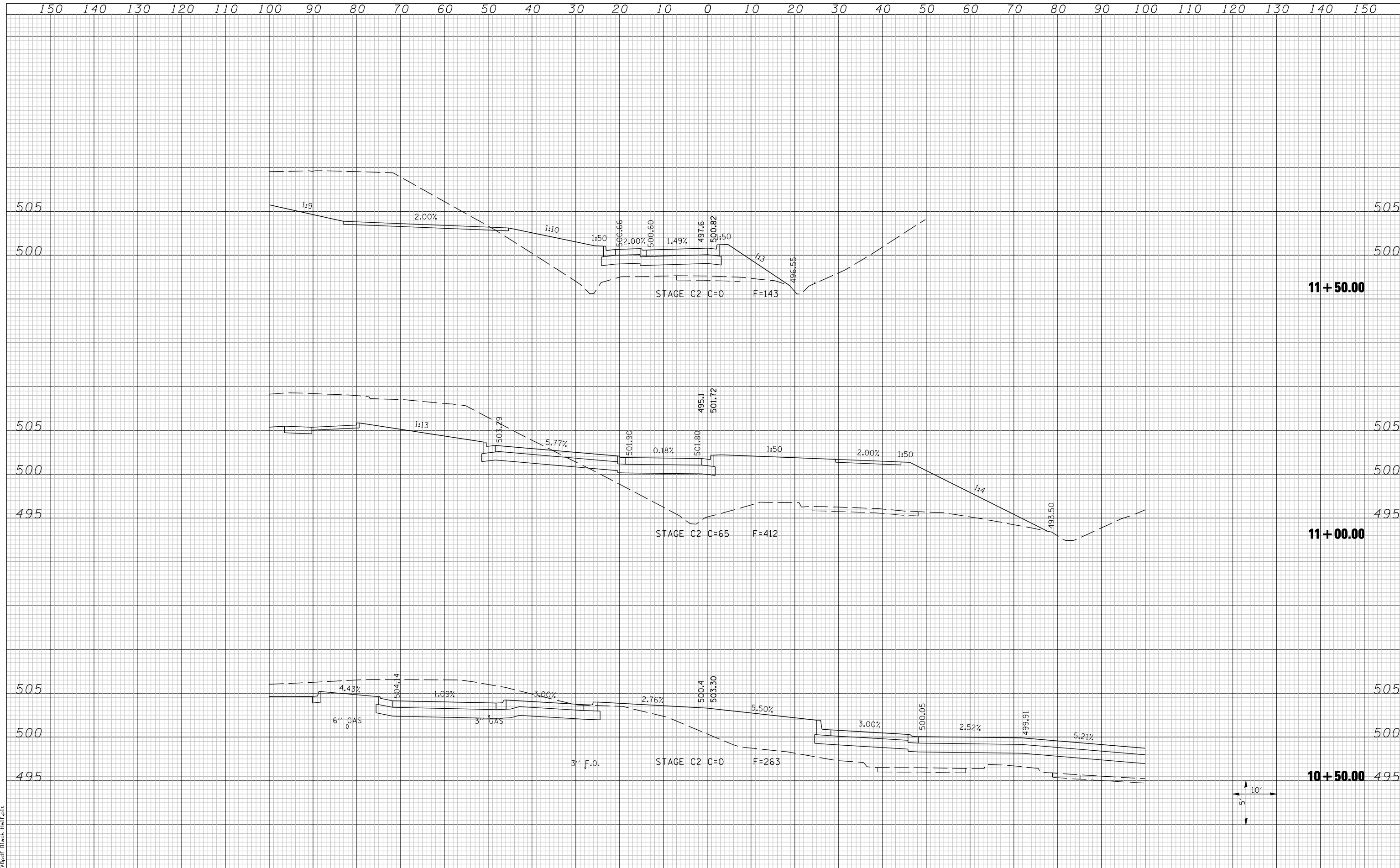
**CROSS SECTIONS**  
 WESTBOUND IL ROUTE 15 ENTRANCE RAMP

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
①	135-N	ST. CLAIR	206	185
① F.A.P. RTE 809 / F.A.U. RTE 9251			CONTRACT NO. 76D06	
/ F.A.U. RTE 9269 ILLINOIS FED. AID PROJECT				

SCALE: SHEET NO. 5 OF 5 SHEETS STA. 97+00.00 TO STA. 97+23.38

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LAST SAVED = 3/20/2012  
 PEN TABLE = 10-Half-10  
 PLOT DRIVER = P:\3rdP\Black-Half.plt



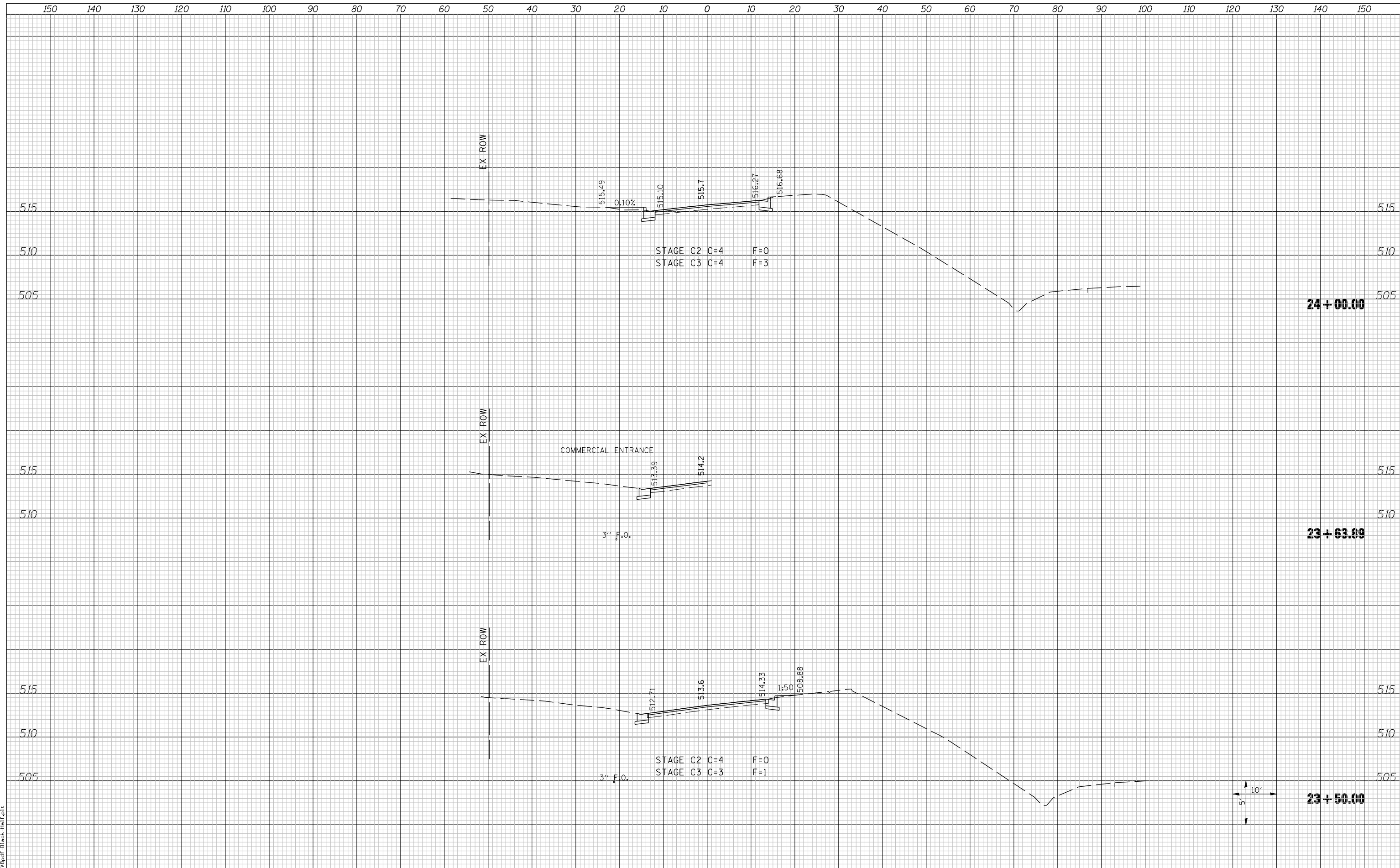






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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS
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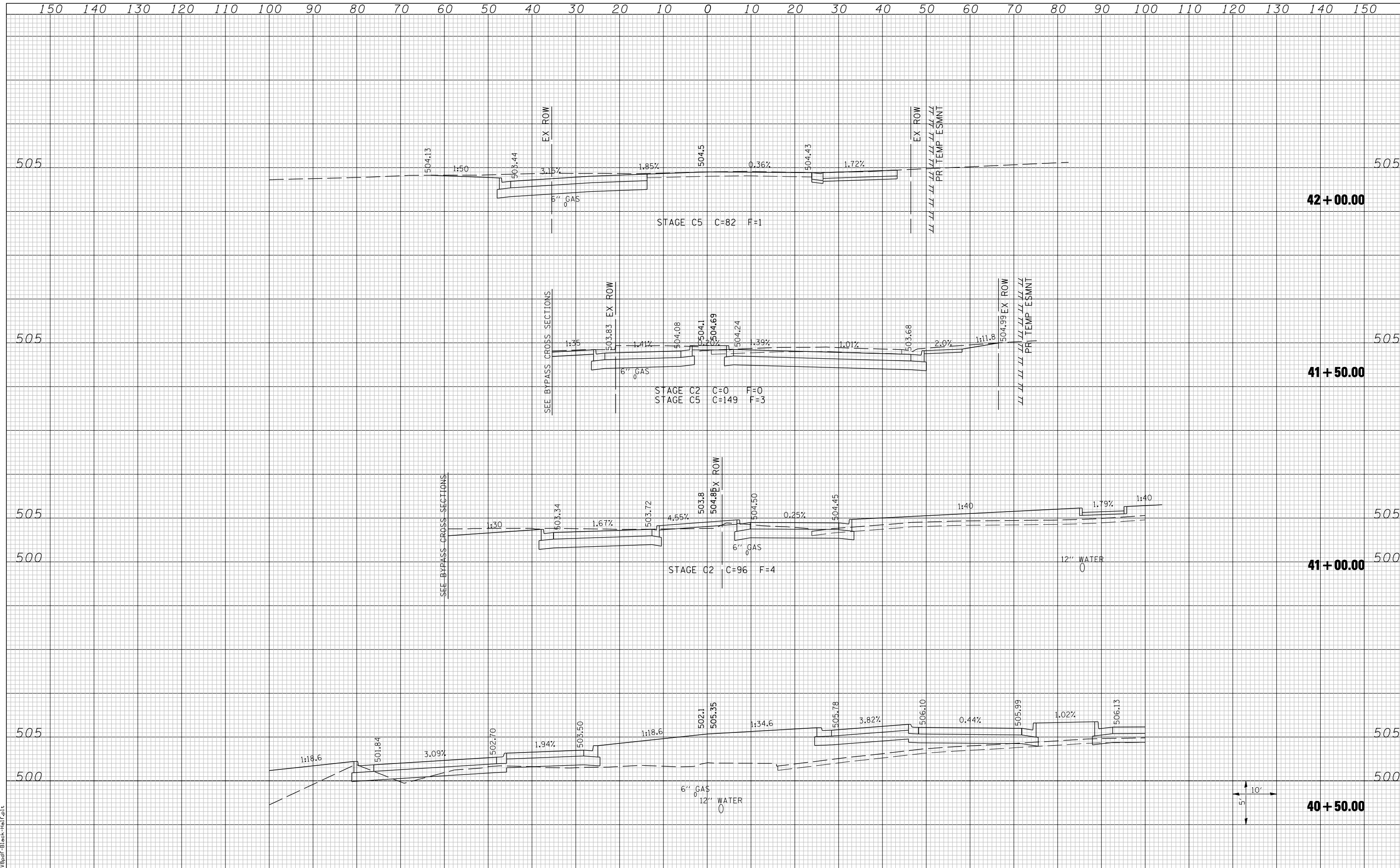
LAST SAVED = 3/20/2012  
 PEN TABLE = 10-Half-103  
 PLOT DRIVER = P:\3d\p1\black-hal.f.plt

FILE NAME =	USER NAME = beriechmann	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>CROSS SECTIONS</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT SCALE = 20.0000 ' / IN.	CHECKED -	REVISED -			①	F.A.P. RTE 809 / F.A.U. RTE 9251	CONTRACT NO. 76D06				
	PLOT DATE = 3/20/2012 4:13:28 PM	DATE -	REVISED -			SCALE:	SHEET NO. 3 OF 4 SHEETS	STA. 23+50.00 TO STA. 24+00.00	/ F.A.U. RTE 9269 ILLINOIS FED. AID PROJECT			



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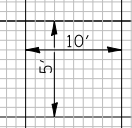
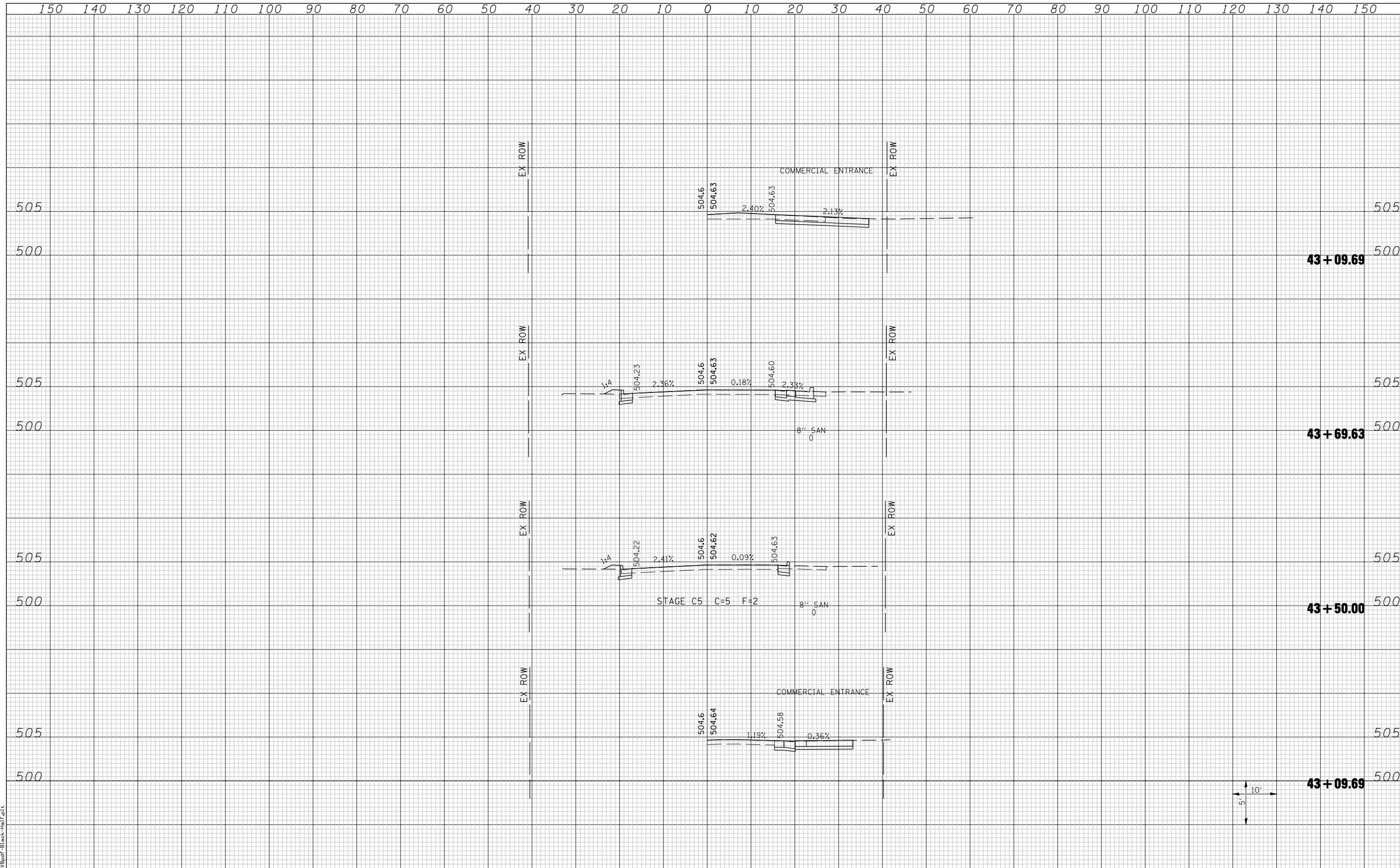
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 PLOT DRIVER = P:\1738pd\FBlack-Hor-1.plt

FILE NAME =	USER NAME = beriechmann	DESIGNED -	REVISD -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>CROSS SECTIONS</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISD -			135-N	ST. CLAIR	206	192			
		CHECKED -	REVISD -			① F.A.P. RTE 809 / F.A.U. RTE 9251 / F.A.U. RTE 9269 ILLINOIS FED. AID PROJECT						
		DATE -	REVISD -			SCALE:	SHEET NO. 1 OF 4 SHEETS	STA. 40+50.00	TO STA. 42+00.00			



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LAST SAVED = 3/20/2012  
 PEN TABLE = 10-Hair-103  
 PLOT DRIVER = P:\13rdp\Black-Hair.plt

FILE NAME =	USER NAME = beriechmann	DESIGNED -	REVISD -
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION



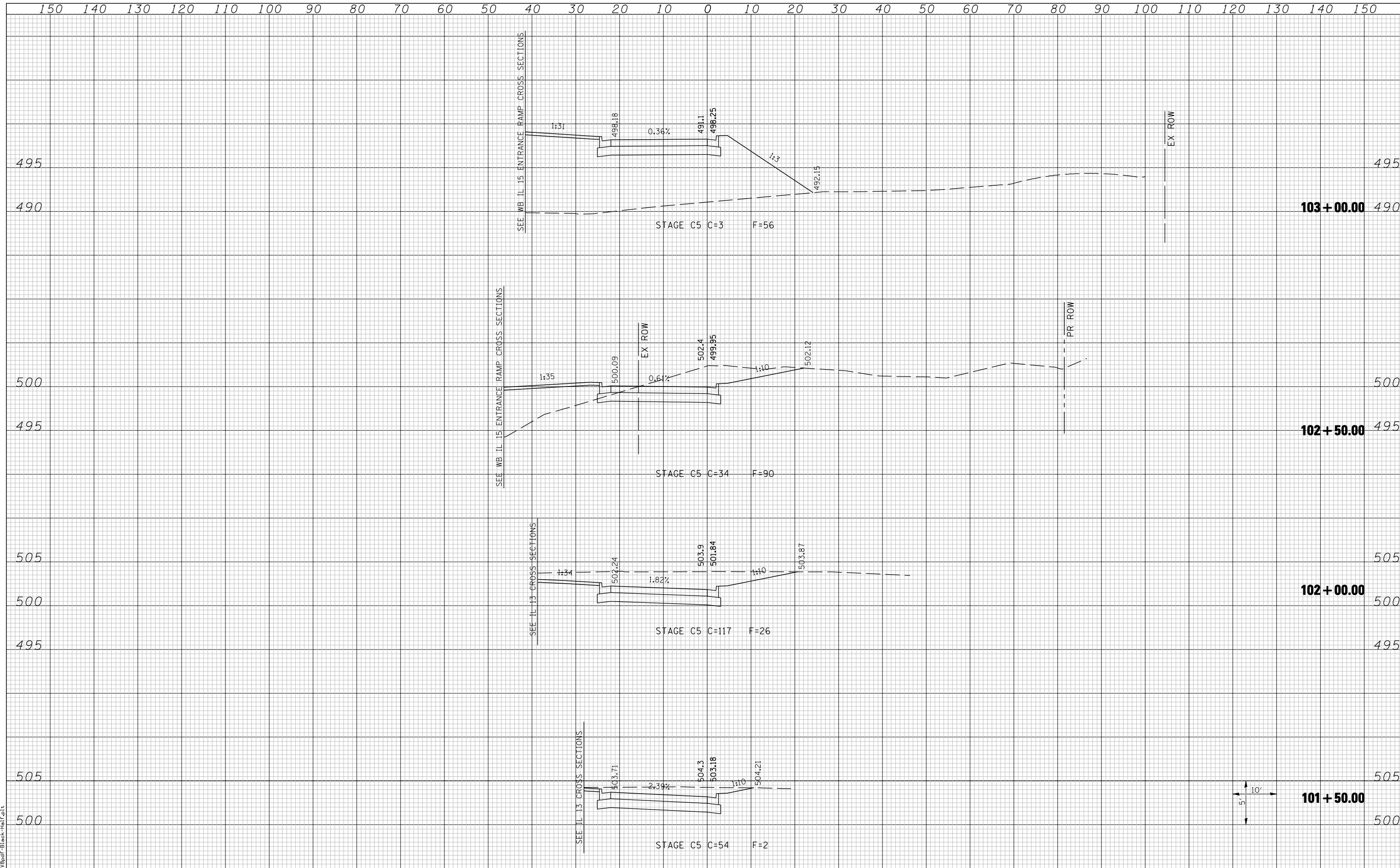
CROSS SECTIONS  
 IL ROUTE 13  
 (WEST OF NORTHERN ROUNDABOUT)  
 SCALE: SHEET NO. 3 OF 4 SHEETS STA. 43+50.00 TO STA. 43+09.69

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
①	135-N	ST. CLAIR	206	194
①	F.A.P. RTE 809 / F.A.U. RTE 9251	CONTRACT NO.	76D06	
/ F.A.U. RTE 9269 ILLINOIS FED. AID PROJECT				



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TEMPLATE	
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LAST SAVED = 3/20/2012  
 PEN TABLE = 10-Half-103  
 PLOT DRIVER = P:\3d\p1\Black-Half.plt

FILE NAME =	USER NAME = beriechmann	DESIGNED -	REVISED -
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PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 3/20/2012 4:13:34 PM		DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION



CROSS SECTIONS  
 IL ROUTE 13 TO WB IL ROUTE 15 ENTRANCE RAMP BYPASS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
① F.A.P. RTE 809 / F.A.U. RTE 9251	135-N	ST. CLAIR	206	196
/ F.A.U. RTE 9269 ILLINOIS FED. AID PROJECT			CONTRACT NO. 76D06	

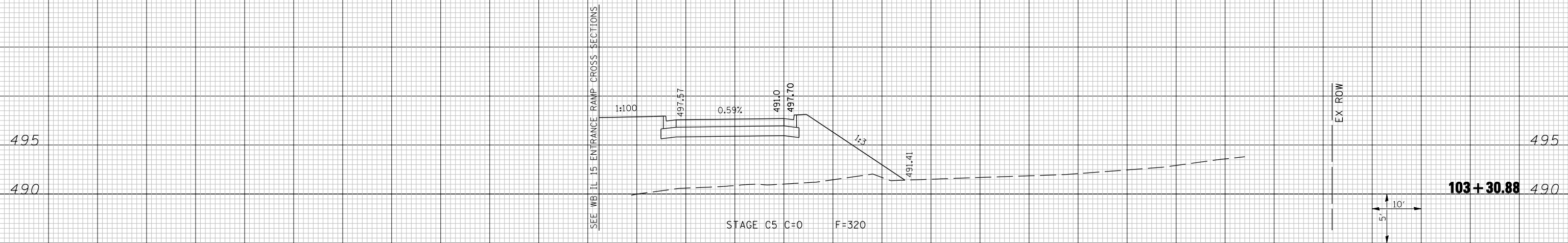
SCALE: SHEET NO. 1 OF 2 SHEETS STA. 101+50.00 TO STA. 103+00.00



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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NOTE BOOK	PLOTTED
NO.	TEMPLATE
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NOTE BOOK	PLOTTED
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LAST SAVED = 3/20/2012  
 PEN TABLE = 10-Helit-163  
 PLOT DRIVER = P11-38pd-F-Black-Helit.plt

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

FILE NAME =	USER NAME = beriechmann	DESIGNED -	REVISED -
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		CHECKED -	REVISED -
		DATE -	REVISED -

PLOT SCALE = 20.0000 ' / IN.	
PLOT DATE = 3/20/2012 4:13:34 PM	

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DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

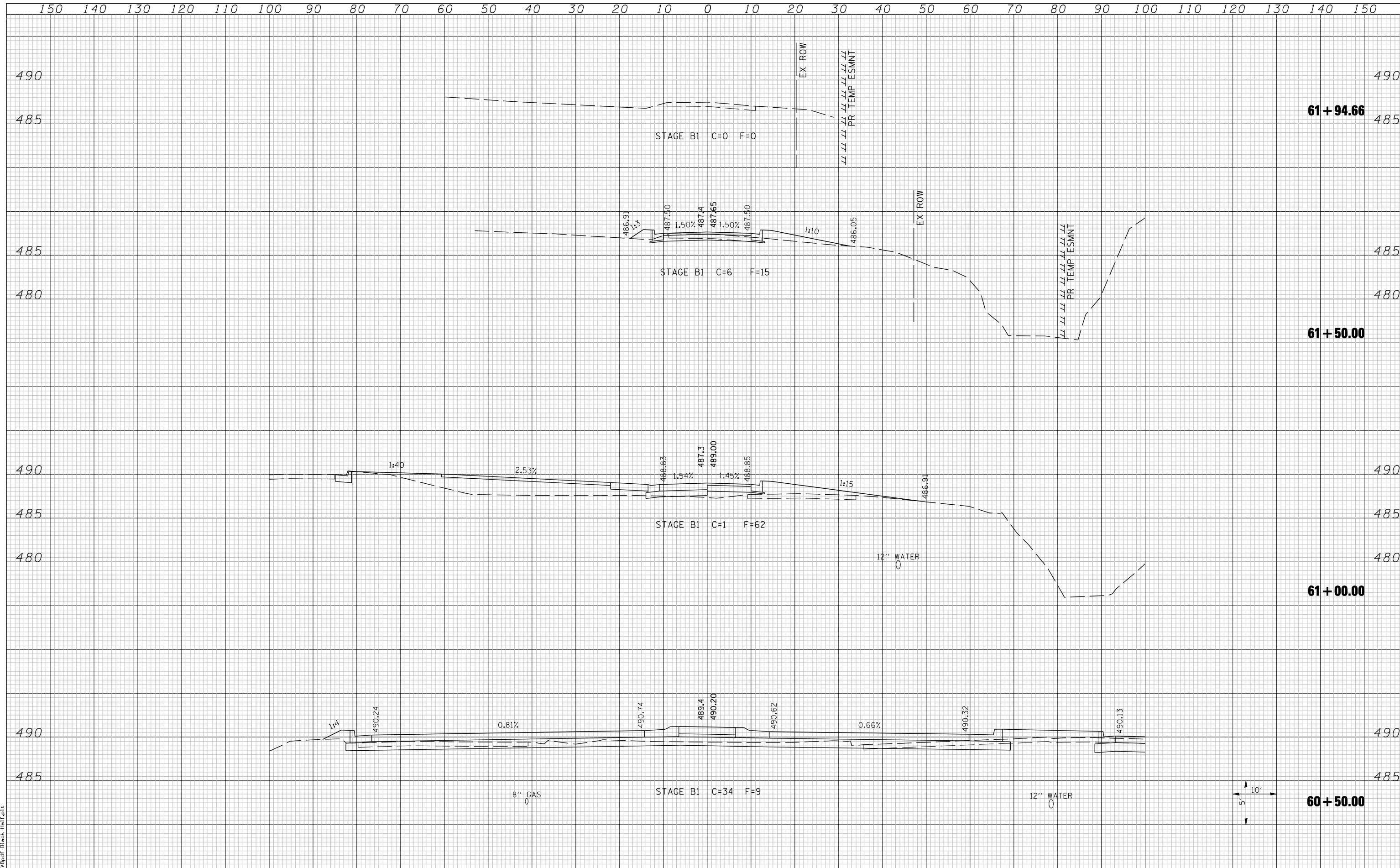


CROSS SECTIONS  
 IL ROUTE 13 TO WB IL ROUTE 15 ENTRANCE RAMP BYPASS  
 SCALE: SHEET NO. 2 OF 2 SHEETS STA. 103+30.88 TO STA. 103+30.88

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
①	135-N	ST. CLAIR	206	197
① F.A.P. RTE 809 / F.A.U. RTE 9251			CONTRACT NO. 76D06	
/ F.A.U. RTE 9269 ILLINOIS FED. AID PROJECT				

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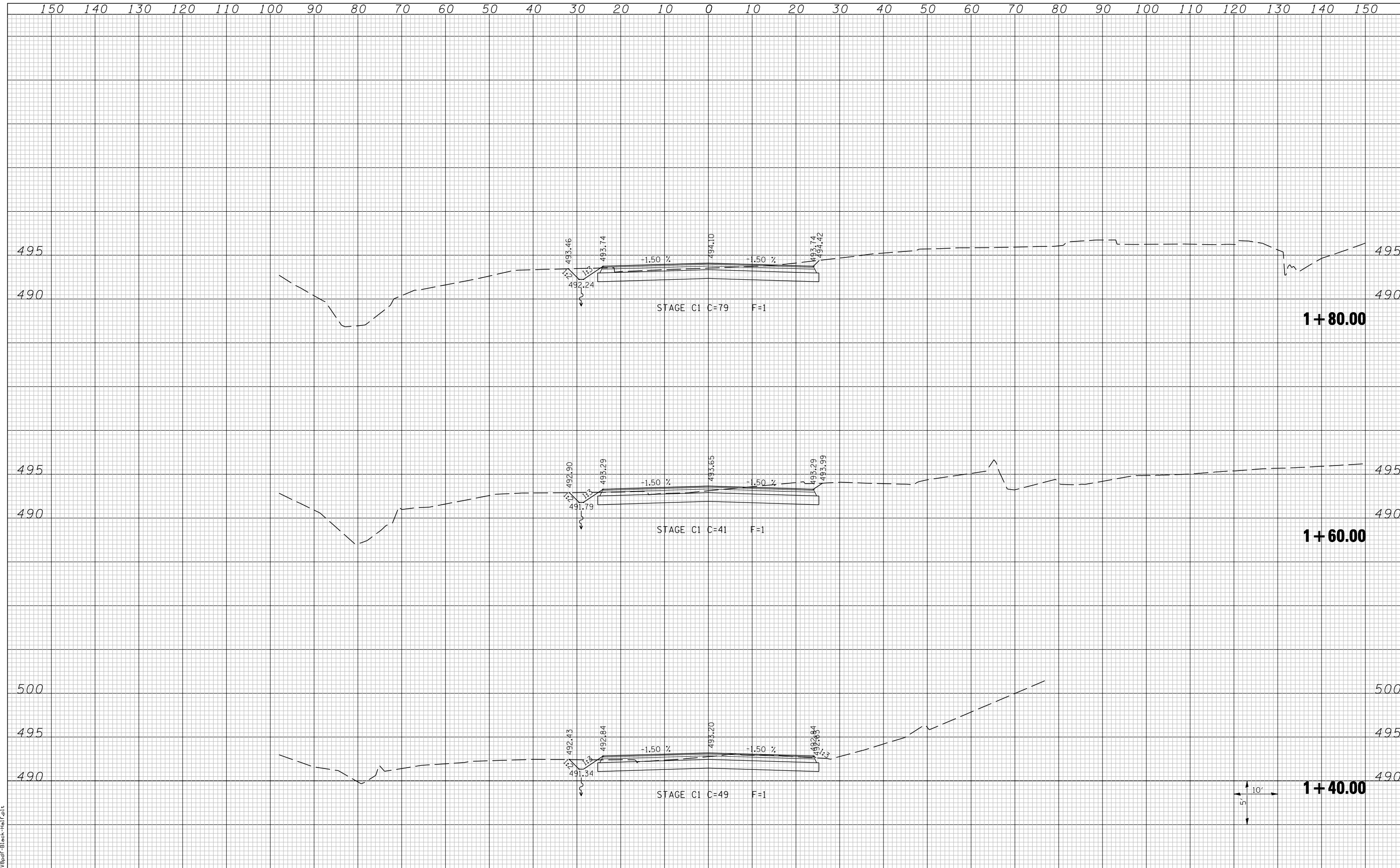
LAST SAVED = 3/20/2012  
 PEN TABLE = 10-Half-10  
 PLOT DRIVER = P:\3d\PlotBlackHalf.plt

FILE NAME =	USER NAME = beriechmann	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>CROSS SECTIONS</b> WHISKEY ROAD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					①	135-N	ST. CLAIR	206	198
		CHECKED -	REVISED -					① F.A.P. RTE 809 / F.A.U. RTE 9251				CONTRACT NO. 76D06
		PLOT DATE = 3/20/2012 4:13:36 PM	DATE -					REVISED -	/ F.A.U. RTE 9269 ILLINOIS FED. AID PROJECT			



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FINAL SURVEY	
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AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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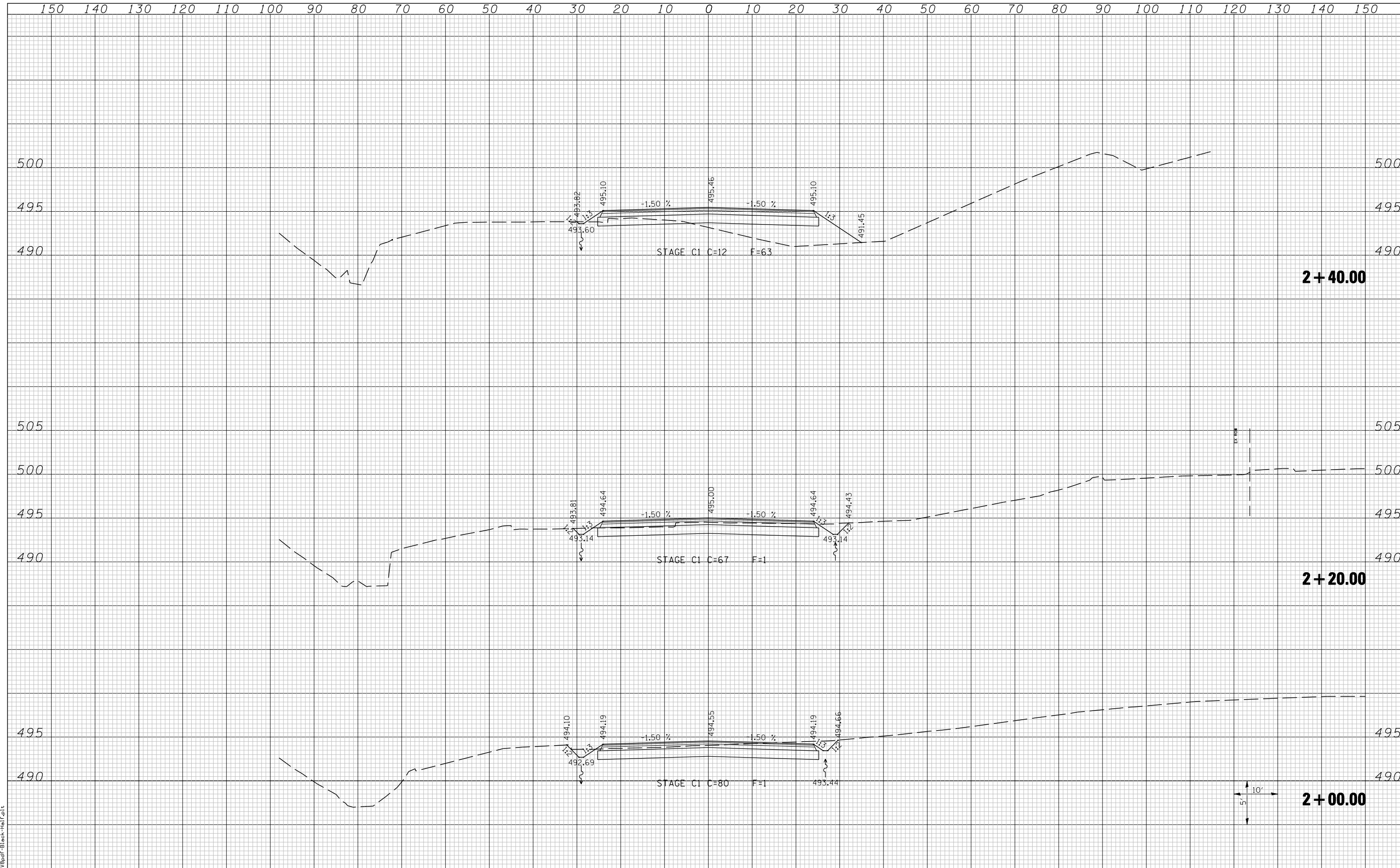


FILE NAME =  
 LAST SAVED = 3/20/2012  
 PEN TABLE = 10-Hair-103  
 PLOT DRIVER = P:\9898\FBlack-Hair.plt

FILE NAME =	USER NAME = beriechmann	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>CROSS SECTIONS</b> IL ROUTE 158 TEMPORARY RUNAROUND		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
LAST SAVED = 3/20/2012	h:\0906600\0906603\cad\t\plans\212-0876006-Shr-XsShr-MOT.dgn	DRAWN -	REVISED -					①	135-N	ST. CLAIR	206	200
PEN TABLE = 10-Hair-103	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -					①	F.A.P. RTE 809 / F.A.U. RTE 9251	CONTRACT NO. 76006		
PLOT DRIVER = P:\9898\FBlack-Hair.plt	PLOT DATE = 3/20/2012 4:13:38 PM	DATE -	REVISED -					/ F.A.U. RTE 9269 ILLINOIS FED. AID PROJECT				

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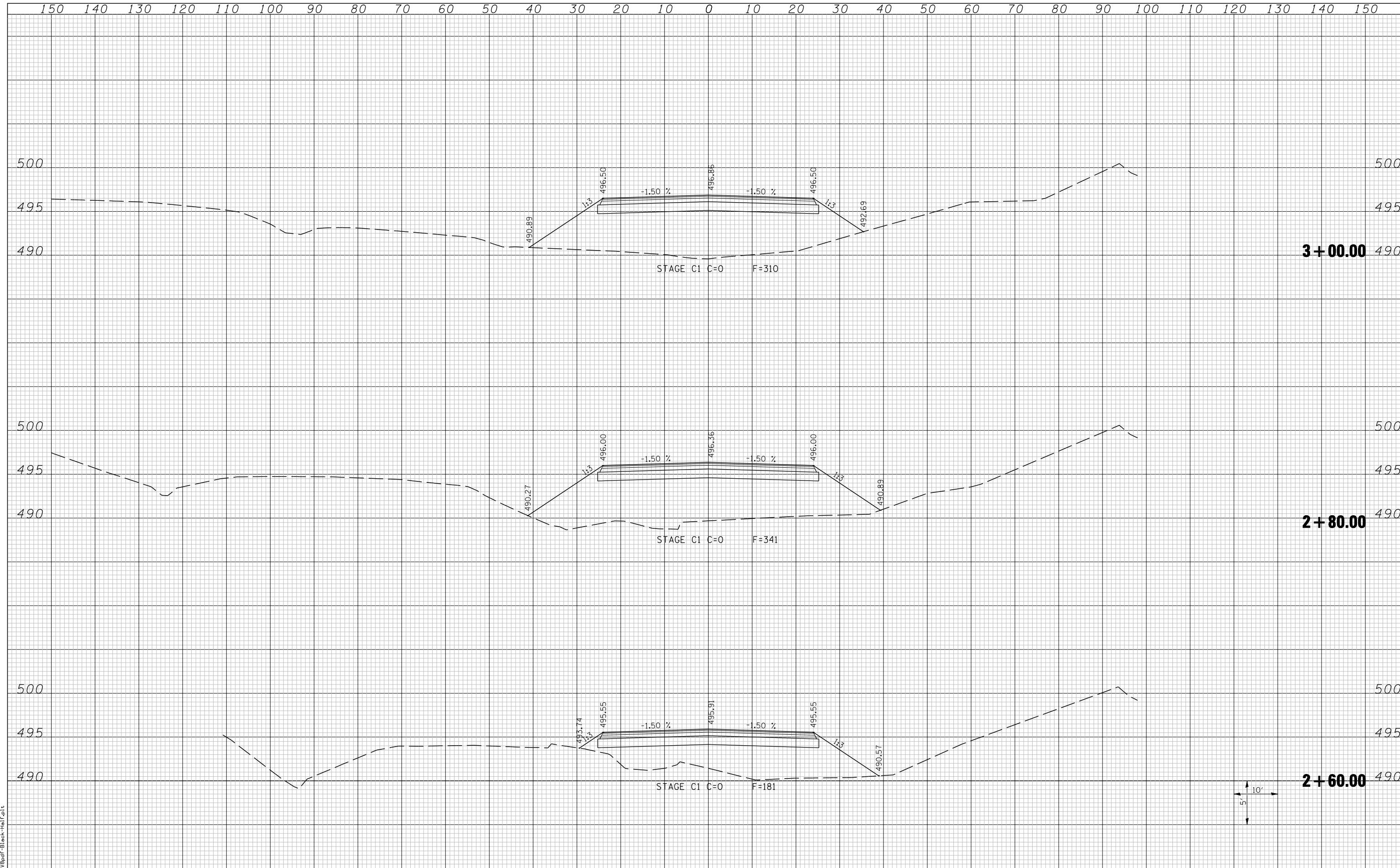


FILE NAME =  
 LAST SAVED = 3/20/2012  
 PEN TABLE = 10-Half-103  
 PLOT DRIVER = P:\989d\FBlack-Half.plt

FILE NAME =	USER NAME = beriechmann	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>CROSS SECTIONS</b> IL ROUTE 158 TEMPORARY RUNAROUND		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
LAST SAVED = 3/20/2012	h:\0906600\0906603\cad\t\plans\212-0876006-Shr-XsSh-MOT.dgn	DRAWN -	REVISED -					①	135-N	ST. CLAIR	206	201
PEN TABLE = 10-Half-103	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -					①	F.A.P. RTE 809 / F.A.U. RTE 9251	CONTRACT NO. 76D06		
PLOT DRIVER = P:\989d\FBlack-Half.plt	PLOT DATE = 3/20/2012 4:13:39 PM	DATE -	REVISED -					/ F.A.U. RTE 9269 ILLINOIS FED. AID PROJECT				

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FILE NAME =  
 LAST SAVED = 3/20/2012  
 PLOT DRIVER =

FILE NAME =	USER NAME = beriechmann	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

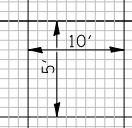
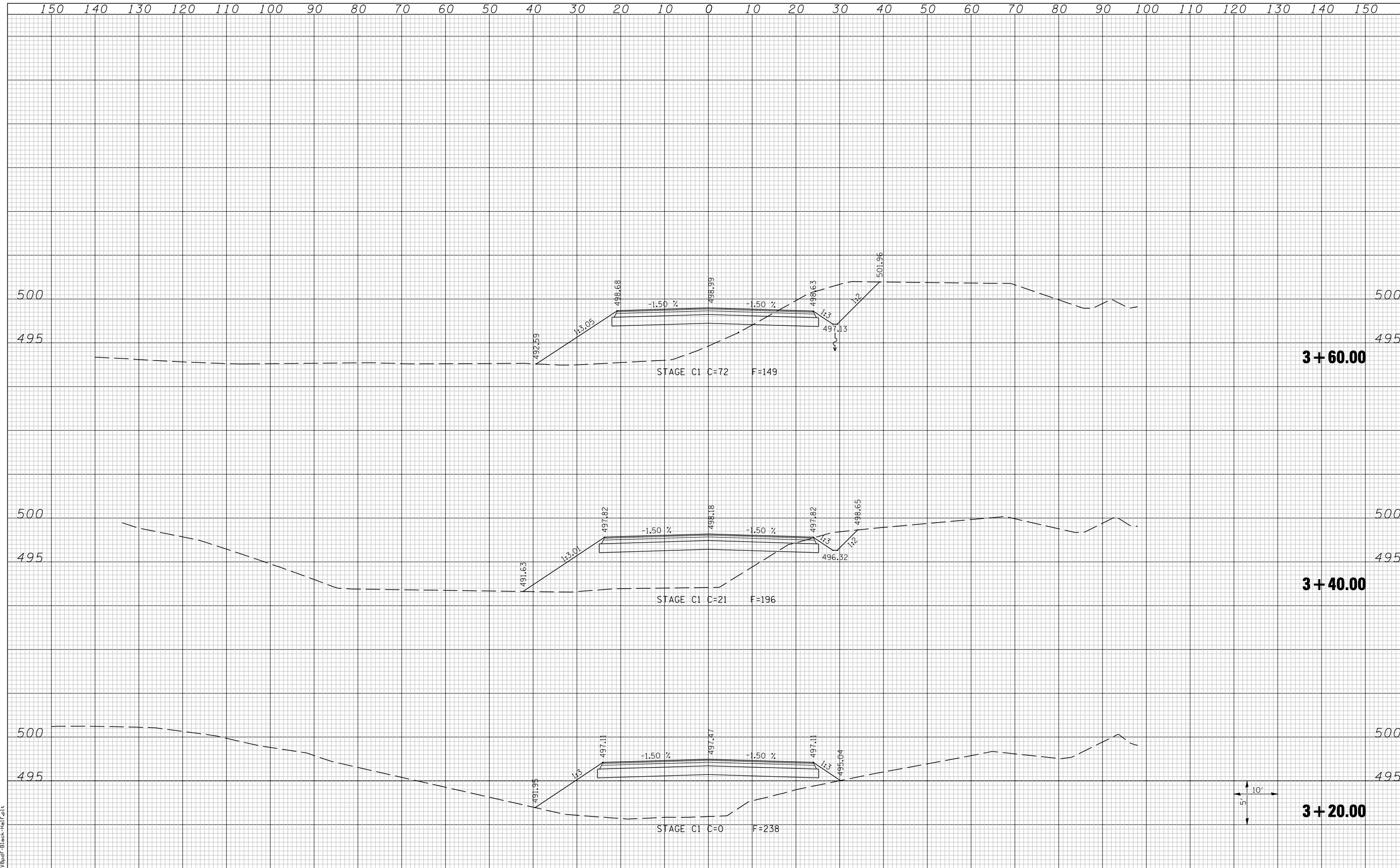


CROSS SECTIONS  
 IL ROUTE 158 TEMPORARY RUNAROUND  
 SCALE: SHEET NO. 4 OF 8 SHEETS STA. 2+60.00 TO STA. 3+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
①	135-N	ST. CLAIR	206	202
① F.A.P. RTE 809 / F.A.U. RTE 9251			CONTRACT NO. 76D06	
/ F.A.U. RTE 9269 ILLINOIS FED. AID PROJECT				

DATE	
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TEMPLATE	
AREAS	
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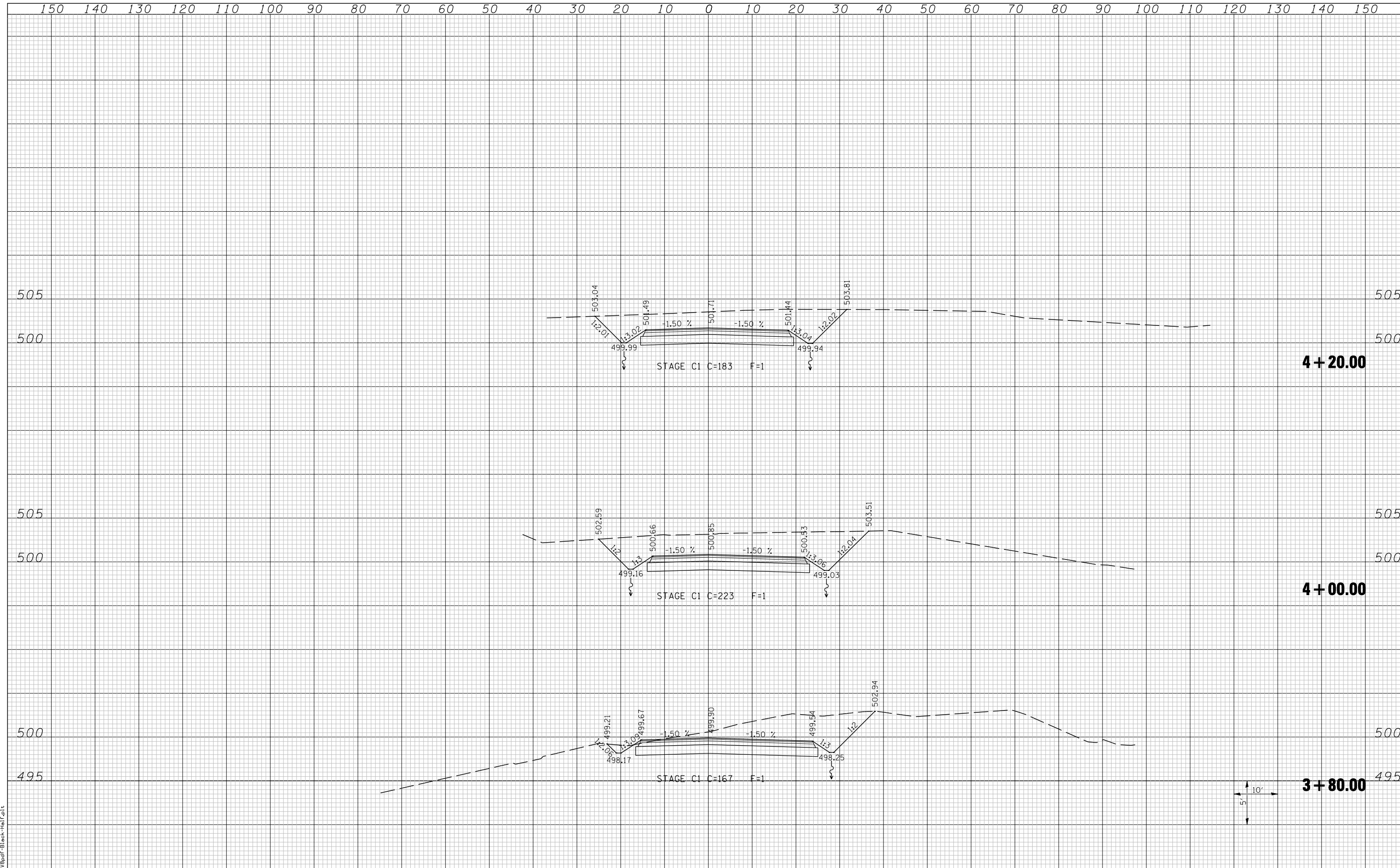


LAST SAVED = 3/20/2012  
 PLOT TABLE = 10-Hor-10-1  
 PLOT DRIVER = Tr-10pdr-Black-Hor-10-1

FILE NAME =	USER NAME = beriechmann	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>CROSS SECTIONS</b> IL ROUTE 158 TEMPORARY RUNAROUND		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISIED -					①	135-N	ST. CLAIR	206	203
		CHECKED -	REVISIED -					① F.A.P. RTE 809 / F.A.U. RTE 9251				CONTRACT NO. 76D06
		DATE -	REVISIED -					/ F.A.U. RTE 9269 ILLINOIS FED. AID PROJECT				
SCALE:				SHEET NO. 5 OF 8 SHEETS		STA. 3+20.00 TO STA. 3+60.00						

DATE	
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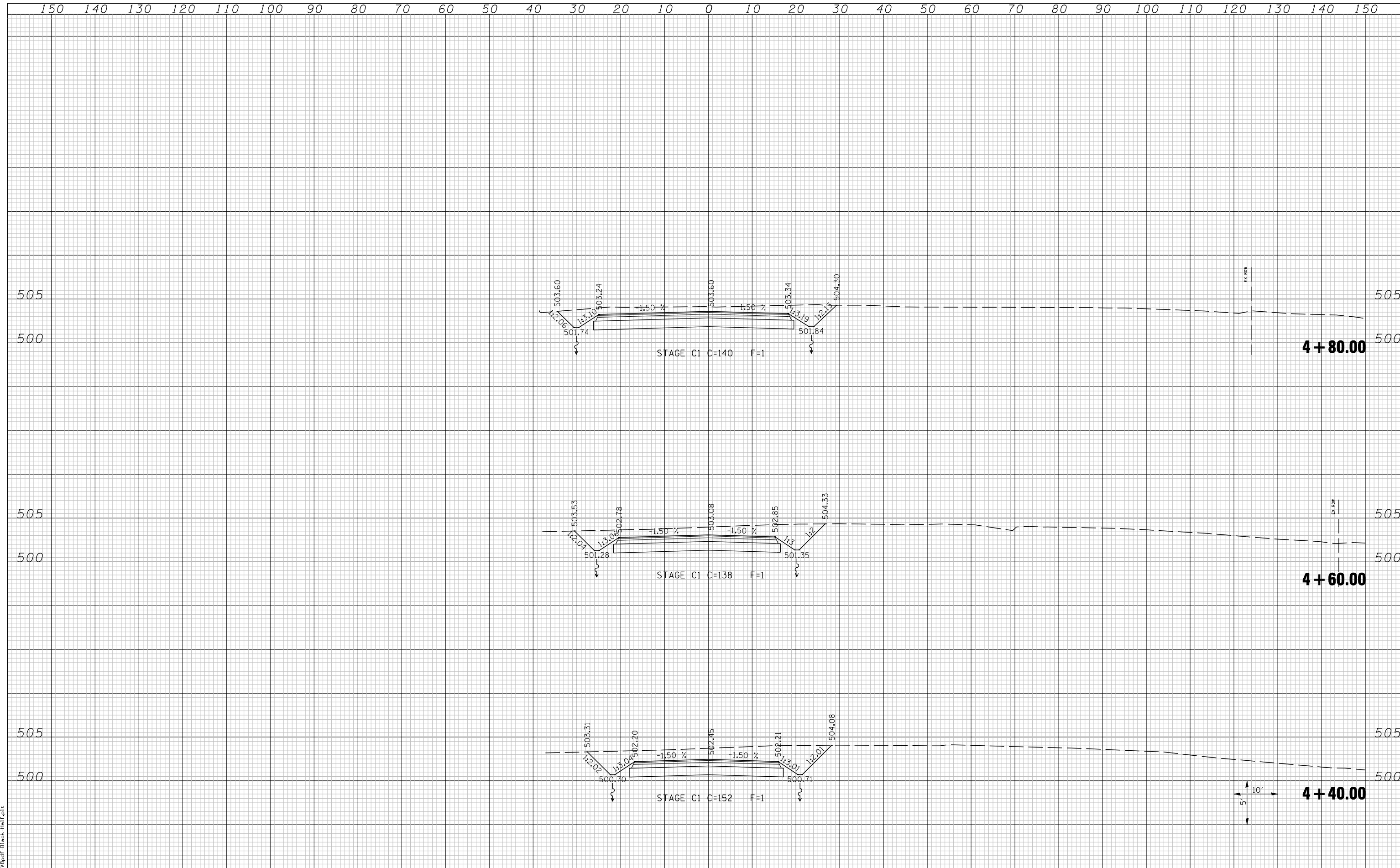
FILE NAME =  
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 PLOT TABLE = 10-Horiz.tbl  
 PLOT DRIVER = P:\989d\FBlack-Horiz.plt

FILE NAME =	USER NAME = beriechmann	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>CROSS SECTIONS</b> IL ROUTE 158 TEMPORARY RUNAROUND		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
LAST SAVED = 3/20/2012	DRAWN -	REVISED -	①					135-N	ST. CLAIR	206	204	
PLOT TABLE = 10-Horiz.tbl	CHECKED -	REVISED -	①					F.A.P. RTE 809 / F.A.U. RTE 9251	ILLINOIS	FED. AID PROJECT		
PLOT DRIVER = P:\989d\FBlack-Horiz.plt	DATE -	REVISED -										
SCALE:				SHEET NO. 6 OF 8 SHEETS		STA. 3+80.00 TO STA. 4+20.00						



FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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ORIGINAL SURVEY	SURVEYED	DATE
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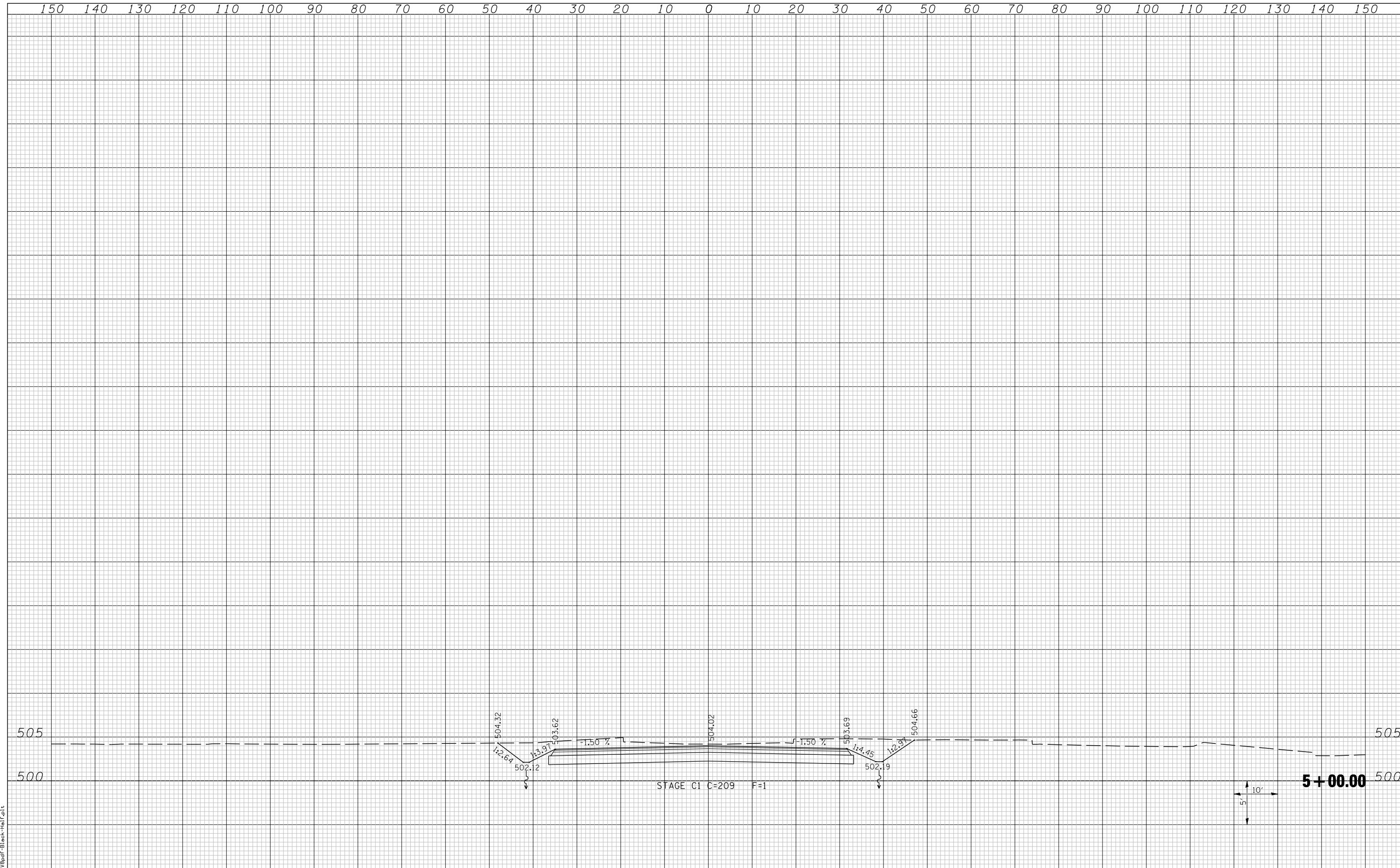


LAST SAVED = 3/20/2012  
 PLOT TABLE = 10-Half-163  
 PLOT DRIVER = Tr-89dPr-Black-Half.plt

FILE NAME =	USER NAME = beriechmann	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>CROSS SECTIONS</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -			IL ROUTE 158 TEMPORARY RUNAROUND		①	135-N	ST. CLAIR	206	205	
		CHECKED -	REVISED -			SCALE:	SHEET NO. 7 OF 8 SHEETS	①	F.A.P. RTE 809 / F.A.U. RTE 9251	CONTRACT NO. 76D06			
		DATE -	REVISED -				STA. 4+40.00 TO STA. 4+80.00		/ F.A.U. RTE 9269 ILLINOIS FED. AID PROJECT				

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NOTE BOOK	
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LAST SAVED = 3/20/2012  
 PEN TABLE = 10-Half-103  
 PLOT DRIVER = Tr-98pdf-Black-Half.plt

FILE NAME =	USER NAME = beriechmann	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>CROSS SECTIONS</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
h:\0906600\0906603\cad\t\plans\212-0876006-Shh-XsShh-MOT.dgn	PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -			①	135-N	ST. CLAIR	206	206		
PLOT DATE = 3/20/2012 4:13:42 PM	DATE -	CHECKED -	REVISED -			①	F.A.P. RTE 809 / F.A.U. RTE 9251	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 76006		
		REVISIED -	REVISIED -			SCALE:	SHEET NO. 8 OF 8 SHEETS	STA. 5+00.00	TO STA. 5+00.00			