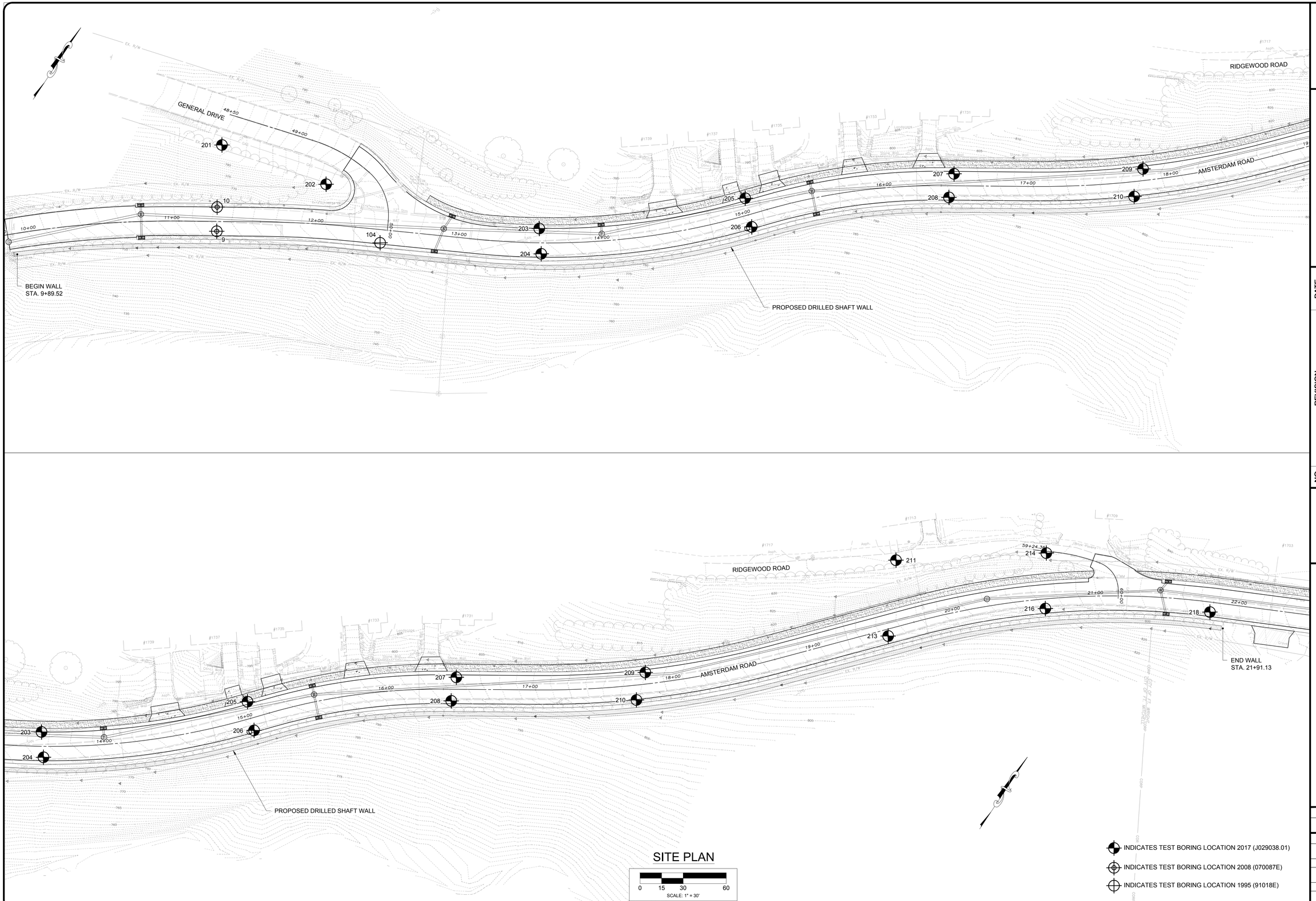

SITE PLAN

0 15 30 60

SCALE: 1" = 30'

- INDICATES TEST BORING LOCATION 2017 (J029038.01)
- INDICATES TEST BORING LOCATION 2008 (070087E)
- INDICATES TEST BORING LOCATION 1995 (91018E)

AMSTERDAM ROAD IMPROVEMENTS

CITY OF FORT WRIGHT, KY.

SITE PLAN

ITEM NO:	6-438
PROJECT NO:	160777
DRAWING NAME	G-1
SHEET	15
OF	40

SCALE: AS SHOWN
DATE: 11/13/17
DESIGNED BY: JDH
DRAWN BY: JDH/RLC
CHECKED BY: WTB

NO	REVISION	DATE

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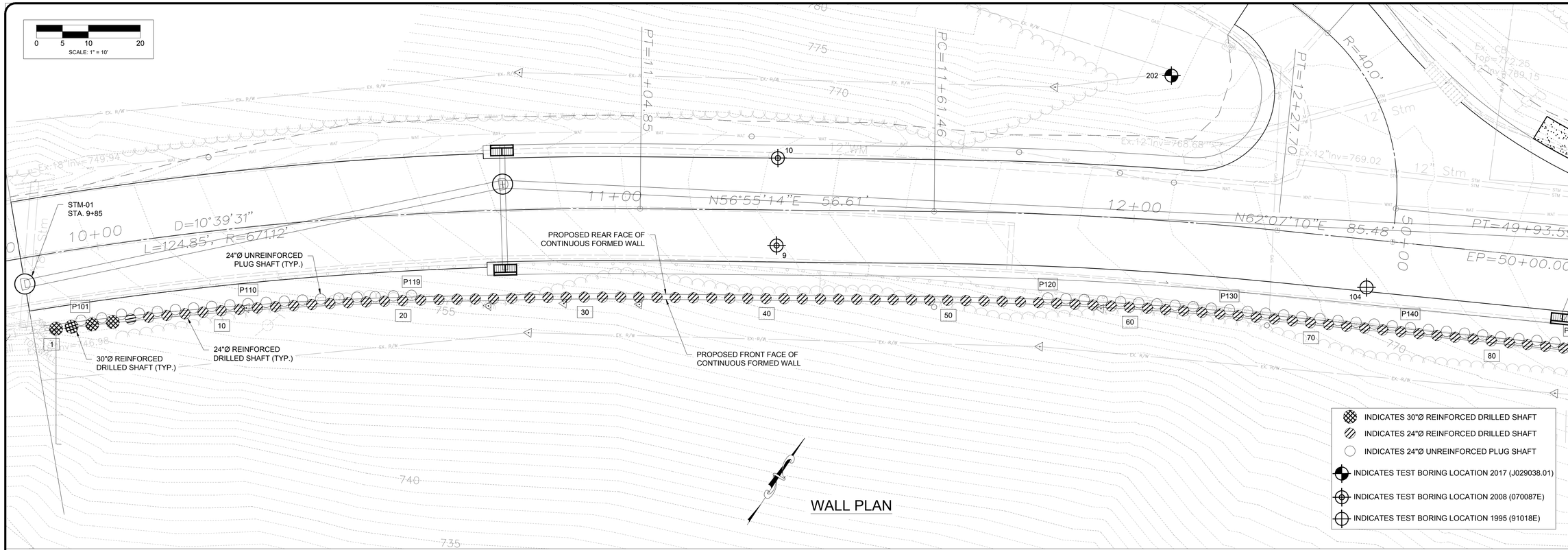
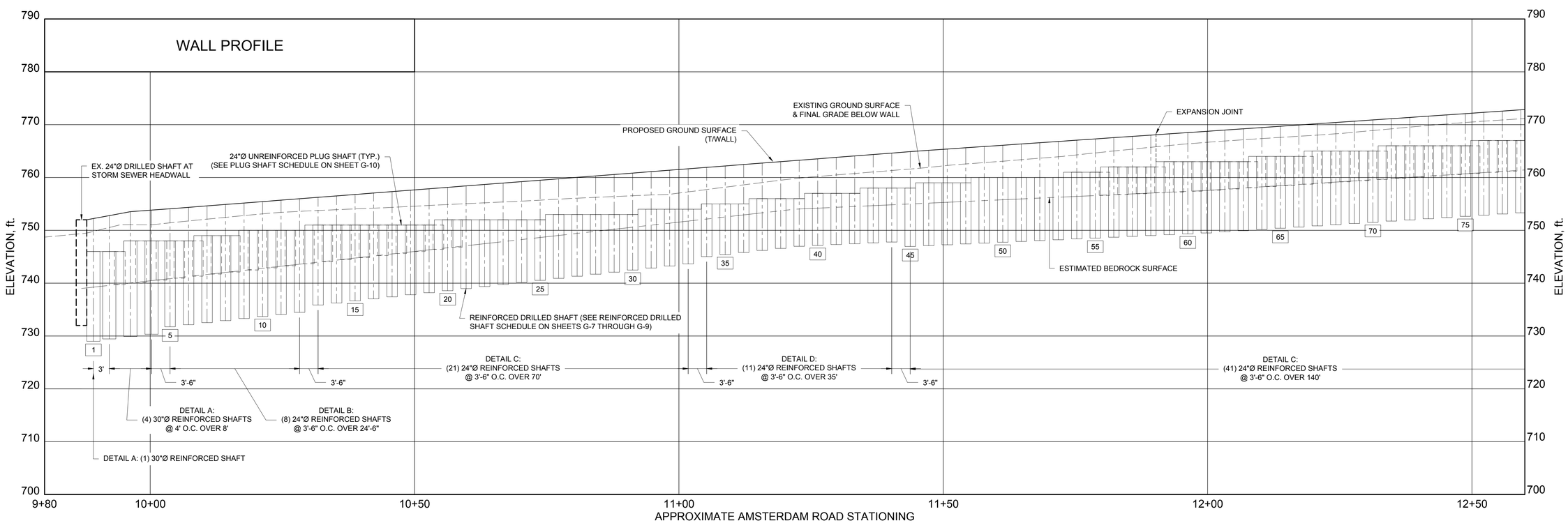
GEOTECHNOLOGY INC FROM THE GROUND UP

H:\2016\160777\DWG\SHEETS\160777 - GEOTECH.DWG - 160777 - GEOTECH - G1-SITEPLAN - 12/20/2019 3:22:47 PM - JAMES CORNELL



WALL PLAN



GEOTECHNOLOGY INC
FROM THE GROUND UP

NO	REVISION	DATE

SCALE: AS SHOWN
DATE: 11/13/17
DESIGNED BY: JDH
DRAWN BY: JDH/RLC
CHECKED BY: WTB

AMSTERDAM ROAD IMPROVEMENTS
CITY OF FORT WRIGHT, KY.

DRILLED SHAFT WALL PLAN & PROFILE

ITEM NO: 6-438
PROJECT NO: 160777
DRAWING NAME: G-2
SHEET 16 OF 40

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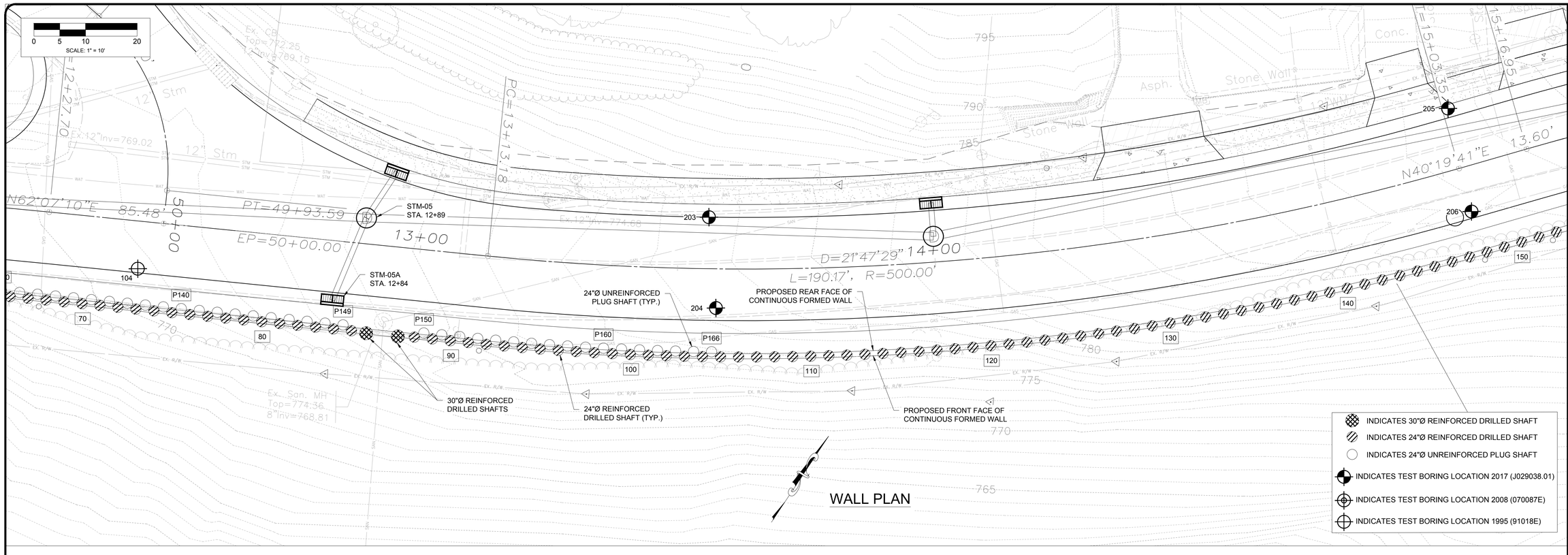

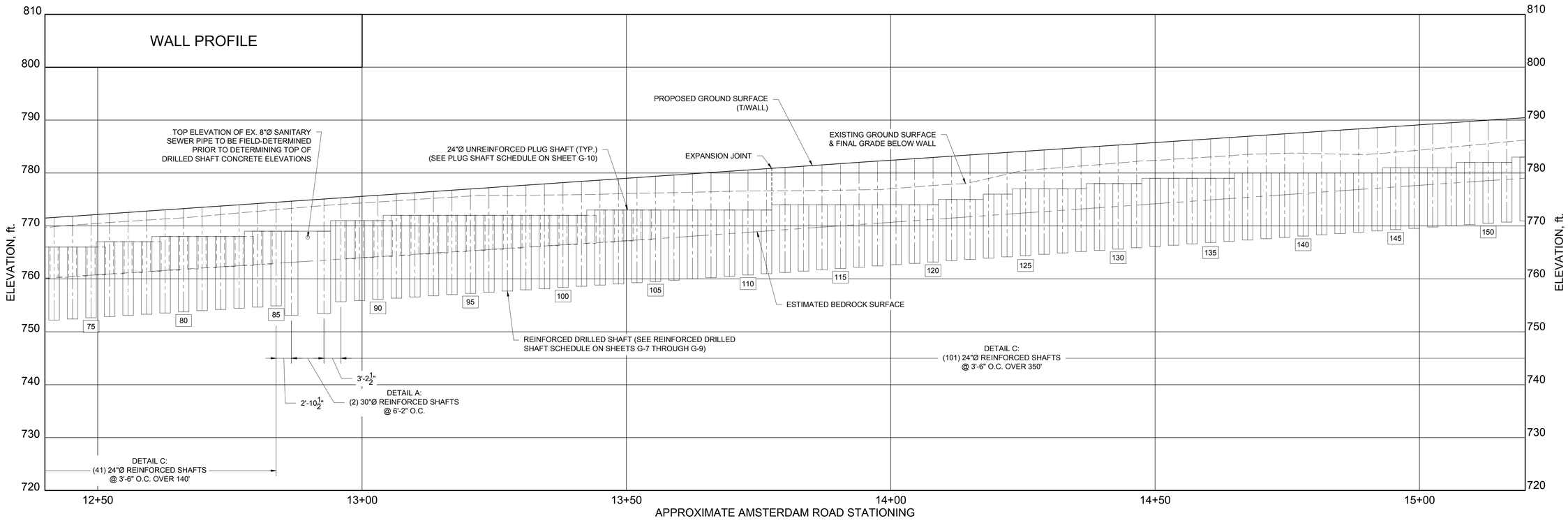

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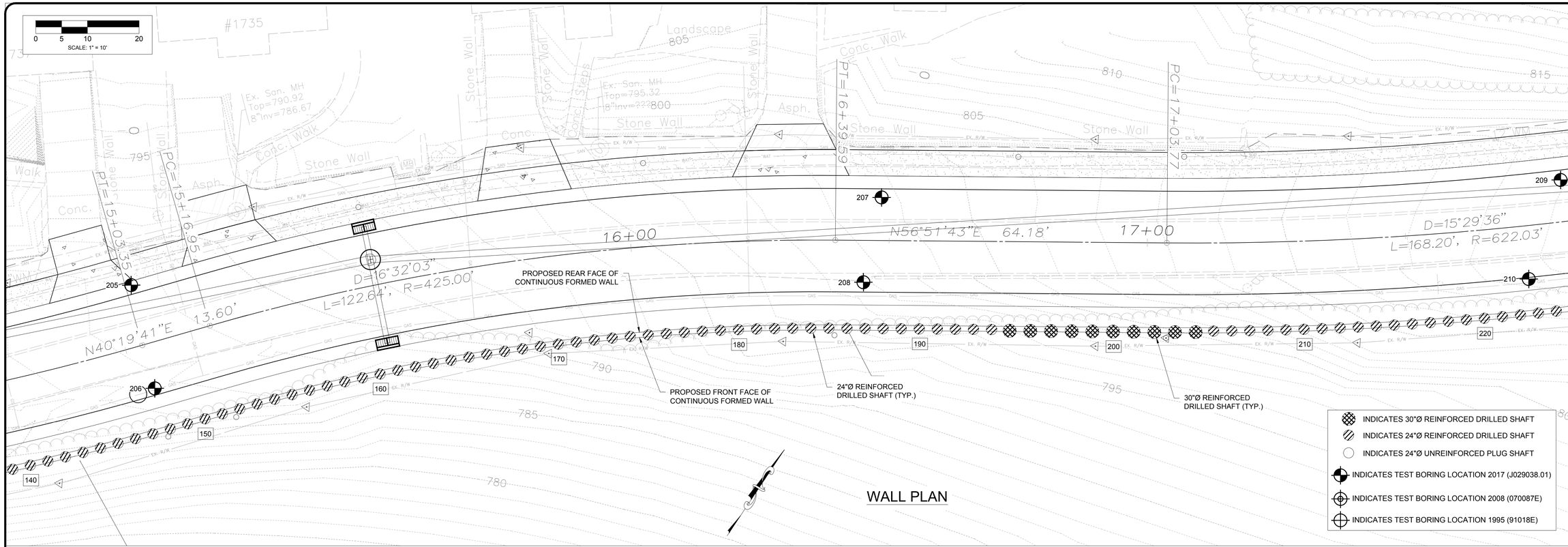
NO	REVISION	DATE

SCALE: AS SHOWN
DATE: 11/13/17
DESIGNED BY: JDH
DRAWN BY: JDH/RLC
CHECKED BY: WTB

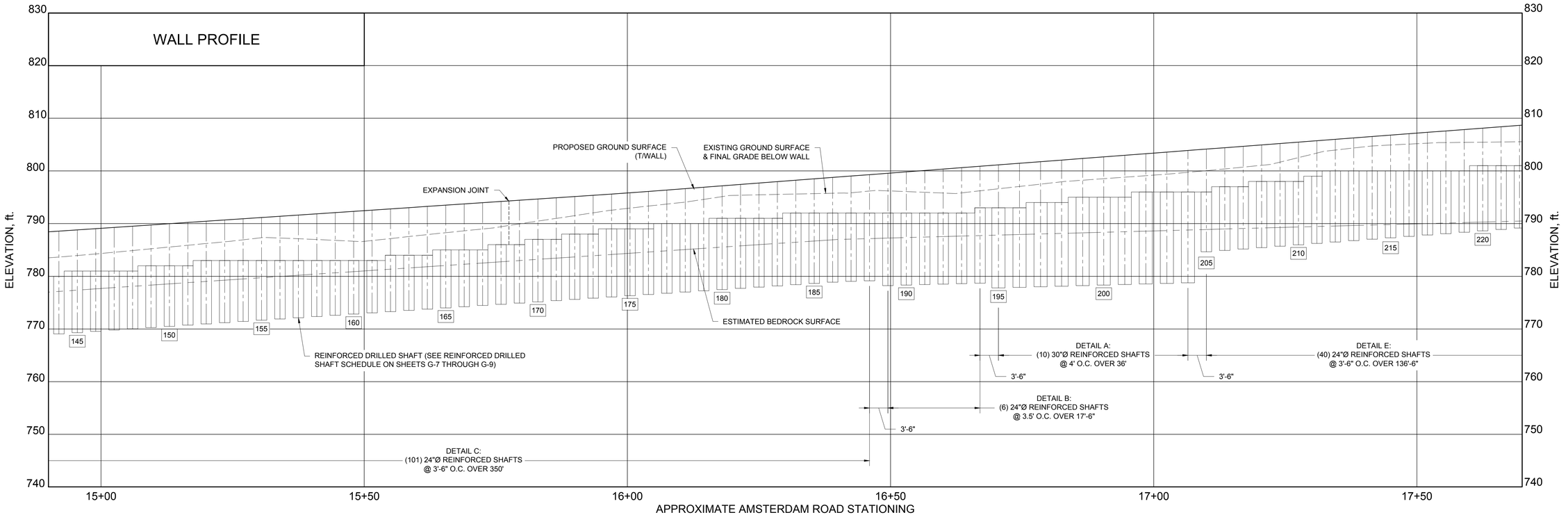
AMSTERDAM ROAD IMPROVEMENTS
CITY OF FORT WRIGHT, KY.

DRILLED SHAFT WALL PLAN & PROFILE

ITEM NO: 6-438
PROJECT NO: 160777
DRAWING NAME: G-3
SHEET 17 OF 40



WALL PLAN



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NO	REVISION	DATE

SCALE: AS SHOWN
DATE: 11/13/17
DESIGNED BY: JDH
DRAWN BY: JDH/RLC
CHECKED BY: WTB

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CITY OF FORT WRIGHT, KY.

DRILLED SHAFT WALL PLAN & PROFILE

ITEM NO: 6-438
PROJECT NO: 160777
DRAWING NAME: G-4
SHEET: 18 OF: 40

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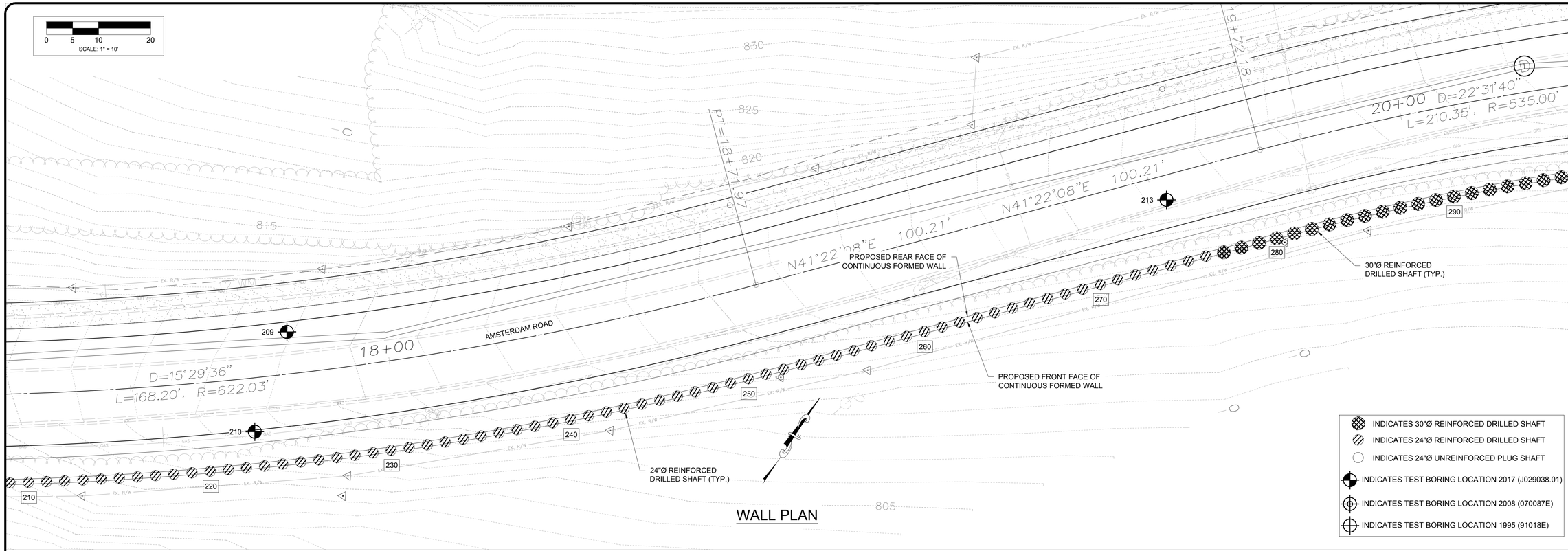
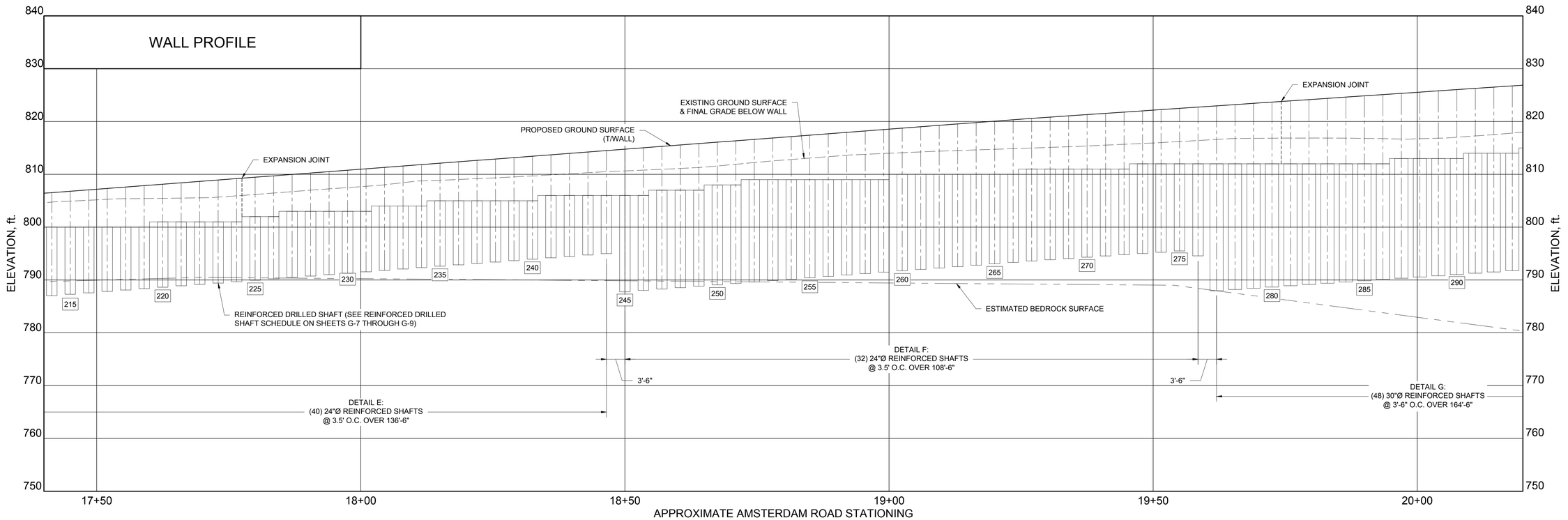


WALL PLAN



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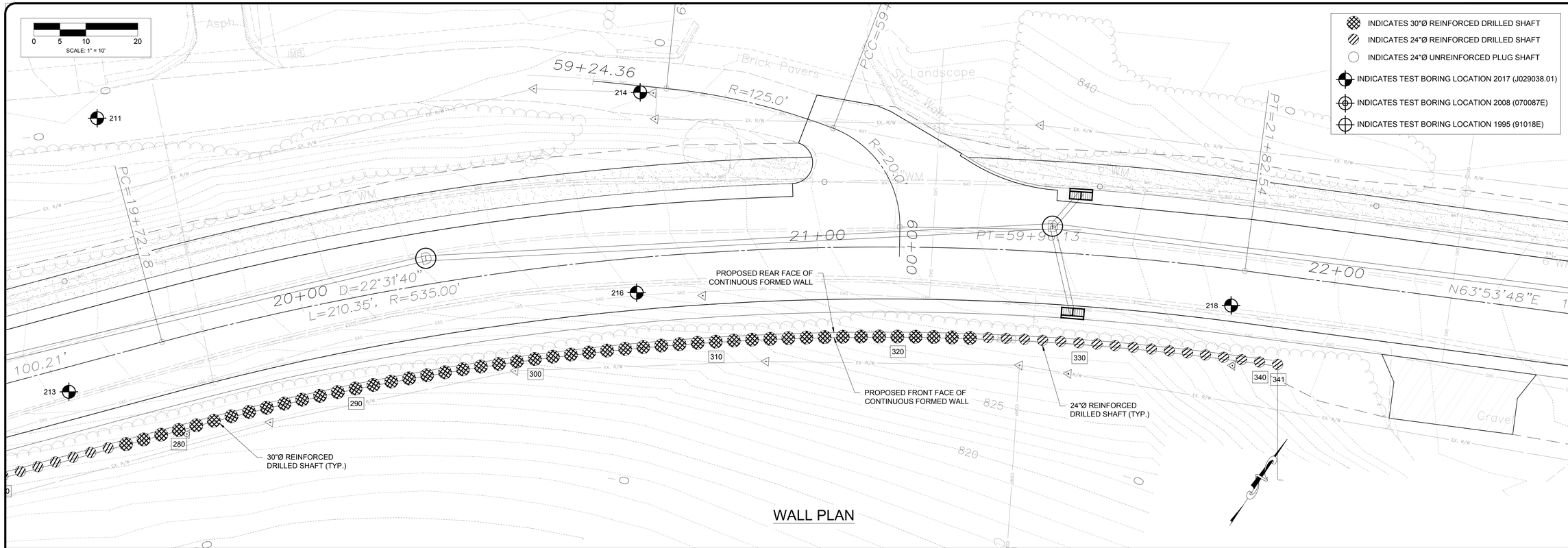
NO	REVISION	DATE

SCALE: AS SHOWN
DATE: 11/13/17
DESIGNED BY: JDH
DRAWN BY: JDH/RLC
CHECKED BY: WTB

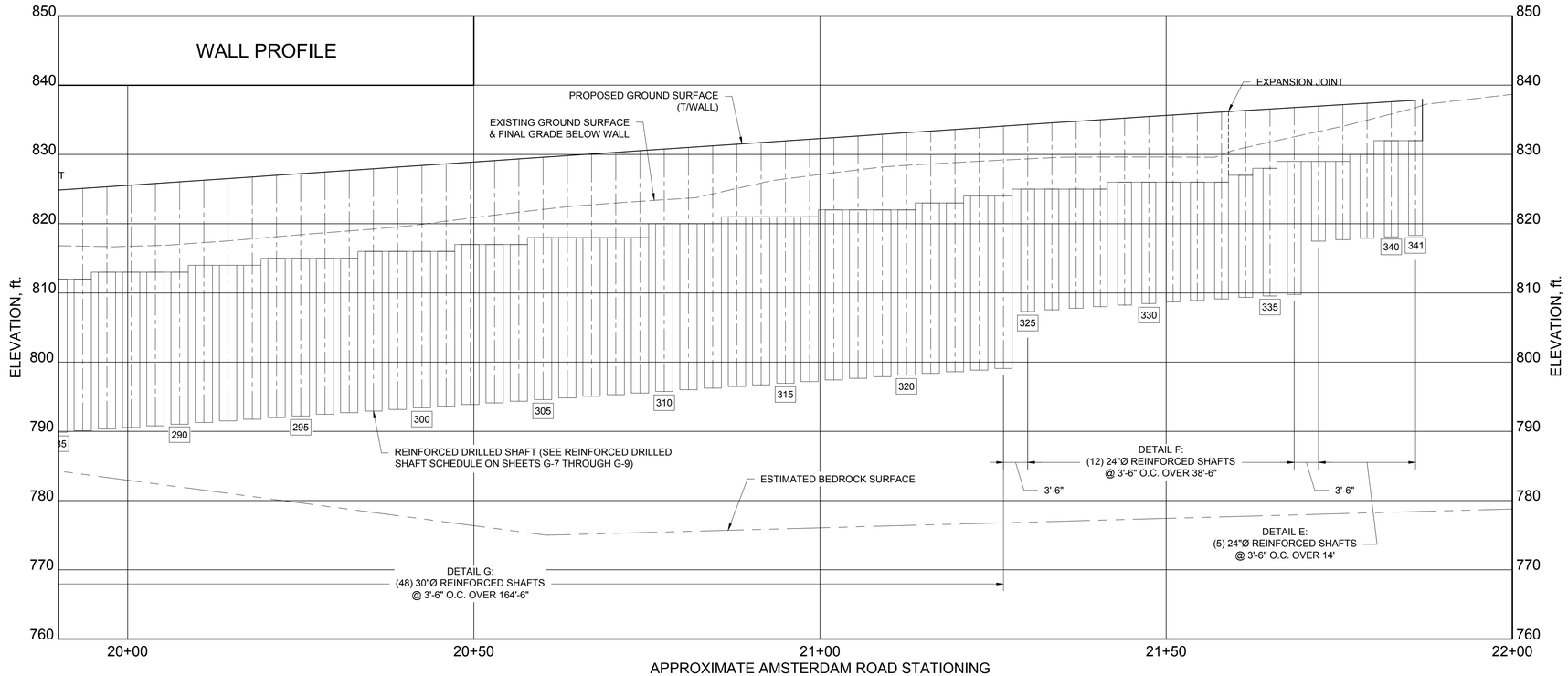
AMSTERDAM ROAD IMPROVEMENTS
CITY OF FORT WRIGHT, KY.

DRILLED SHAFT WALL PLAN & PROFILE

ITEM NO: 6-438
PROJECT NO: 160777
DRAWING NAME: G-5
SHEET: 19 OF 40



WALL PLAN



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NO	REVISION	DATE

SCALE: AS SHOWN
DATE: 11/13/17
DESIGNED BY: JDH
DRAWN BY: JDH/RLC
CHECKED BY: WTB

AMSTERDAM ROAD IMPROVEMENTS
CITY OF FORT WRIGHT, KY.

DRILLED SHAFT WALL PLAN & PROFILE

ITEM NO: 6-438
PROJECT NO: 160777
DRAWING NAME: G-6
SHEET 20 OF 40

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REINFORCED DRILLED SHAFT SCHEDULE

SHAFT NO.	SHAFT TYPE	NORTHING (FT.) *	EASTING (FT.) *	APPROXIMATE TOP OF BEDROCK EL. (FT.)	MINIMUM BEDROCK SOCKET LENGTH (FT.) **	APPROXIMATE BOTTOM OF SHAFT EL. (FT.) **	TOP OF SHAFT/ BOTTOM OF CONTINUOUS WALL EL. (FT.)	ESTIMATED TOTAL CONCRETED SHAFT LENGTH (FT.) **	TOP OF CONTINUOUS WALL EL. (FT.)	HEIGHT OF CONTINUOUS WALL EL. (FT.)	ESTIMATED TOTAL SHAFT & CONTINUOUS WALL HEIGHT (FT.) **
1	A	569448.49	1554681.38	739.1	10.0	729.0	746.0	17.0	753.0	7.0	24.0
2	A	569450.44	1554683.66	739.4	10.0	729.4	746.0	16.6	753.2	7.2	23.8
3	A	569453.03	1554686.71	739.9	10.0	729.9	748.0	18.1	753.5	5.5	23.6
4	A	569455.60	1554689.77	740.3	10.0	730.3	748.0	17.7	753.8	5.8	23.5
5	B	569457.99	1554692.33	740.8	9.0	731.8	748.0	16.3	754.1	6.1	22.3
6	B	569460.22	1554695.04	741.1	9.0	732.1	748.0	15.9	754.4	6.4	22.2
7	B	569462.43	1554697.75	741.5	9.0	732.5	749.0	16.5	754.6	5.6	22.1
8	B	569464.63	1554700.47	741.9	9.0	732.9	749.0	16.1	754.9	5.9	22.0
9	B	569466.81	1554703.21	742.3	9.0	733.3	750.0	16.7	755.2	5.2	21.9
10	B	569468.98	1554705.95	742.7	9.0	733.7	750.0	16.3	755.4	5.4	21.7
11	B	569471.14	1554708.71	743.1	9.0	734.1	750.0	15.9	755.7	5.7	21.6
12	B	569473.29	1554711.47	743.5	9.0	734.5	750.0	15.5	756.0	6.0	21.5
13	C	569475.42	1554714.25	743.9	8.0	735.9	751.0	15.1	756.2	5.2	20.4
14	C	569477.53	1554717.04	744.3	8.0	736.3	751.0	14.8	756.5	5.5	20.3
15	C	569479.64	1554719.84	744.6	8.0	736.6	751.0	14.4	756.8	5.8	20.1
16	C	569481.73	1554722.64	745.0	8.0	737.0	751.0	14.0	757.1	6.1	20.0
17	C	569483.80	1554725.46	745.4	8.0	737.4	751.0	13.6	757.3	6.3	19.9
18	C	569485.87	1554728.29	745.8	8.0	737.8	751.0	13.2	757.6	6.6	19.8
19	C	569487.91	1554731.13	746.2	8.0	738.2	751.0	12.8	757.9	6.9	19.7
20	C	569489.95	1554733.97	746.6	8.0	738.6	752.0	13.4	758.1	6.1	19.5
21	C	569491.97	1554736.83	747.0	8.0	739.0	752.0	13.0	758.4	6.4	19.4
22	C	569493.98	1554739.70	747.4	8.0	739.4	752.0	12.6	758.7	6.7	19.3
23	C	569495.97	1554742.58	747.8	8.0	739.8	752.0	12.3	758.9	6.9	19.2
24	C	569497.95	1554745.46	748.1	8.0	740.1	752.0	11.9	759.2	7.2	19.1
25	C	569499.93	1554748.35	748.5	8.0	740.5	752.0	11.5	759.5	7.5	19.0
26	C	569501.95	1554751.21	748.9	8.0	740.9	753.0	12.1	759.8	6.8	18.8
27	C	569503.95	1554754.08	749.3	8.0	741.3	753.0	11.7	760.0	7.0	18.7
28	C	569505.94	1554756.96	749.7	8.0	741.7	753.0	11.3	760.3	7.3	18.6
29	C	569507.92	1554759.85	750.1	8.0	742.1	753.0	10.9	760.6	7.6	18.5
30	C	569509.87	1554762.75	750.5	8.0	742.5	753.0	10.5	760.8	7.8	18.4
31	C	569511.82	1554765.66	750.9	8.0	742.9	754.0	11.1	761.1	7.1	18.2
32	C	569513.75	1554768.58	751.3	8.0	743.3	754.0	10.8	761.4	7.4	18.1
33	C	569515.66	1554771.51	751.6	8.0	743.6	754.0	10.4	761.6	7.6	18.0
34	D	569517.57	1554774.44	752.0	7.0	745.0	755.0	10.0	761.9	6.9	16.9
35	D	569519.48	1554777.37	752.4	7.0	745.4	755.0	9.6	762.2	7.2	16.8
36	D	569521.39	1554780.31	752.8	7.0	745.8	755.0	9.2	762.5	7.5	16.6
37	D	569523.30	1554783.24	753.2	7.0	746.2	756.0	9.8	762.7	6.7	16.5
38	D	569525.21	1554786.17	753.6	7.0	746.6	756.0	9.4	763.0	7.0	16.4
39	D	569527.12	1554789.10	754.0	7.0	747.0	756.0	9.0	763.3	7.3	16.3
40	D	569529.03	1554792.04	754.1	7.0	747.1	757.0	9.9	763.5	6.5	16.4
41	D	569530.95	1554794.97	754.3	7.0	747.3	757.0	9.7	763.8	6.8	16.5
42	D	569532.86	1554797.90	754.5	7.0	747.5	757.0	9.5	764.1	7.1	16.6
43	D	569534.77	1554800.84	754.6	7.0	747.6	758.0	10.4	764.3	6.3	16.7
44	D	569536.68	1554803.77	754.8	7.0	747.8	758.0	10.2	764.6	6.6	16.8
45	C	569538.59	1554806.70	754.9	8.0	746.9	758.0	11.1	764.9	6.9	17.9
46	C	569540.50	1554809.63	755.1	8.0	747.1	759.0	11.9	765.1	6.1	18.0
47	C	569542.41	1554812.57	755.3	8.0	747.3	759.0	11.7	765.4	6.4	18.1
48	C	569544.32	1554815.50	755.4	8.0	747.4	759.0	11.6	765.6	6.6	18.2
49	C	569546.23	1554818.43	755.6	8.0	747.6	760.0	12.4	765.9	5.9	18.3
50	C	569548.13	1554821.37	755.7	8.0	747.7	760.0	12.3	766.1	6.1	18.4
51	C	569550.02	1554824.31	755.9	8.0	747.9	760.0	12.1	766.3	6.3	18.4
52	C	569551.90	1554827.27	756.1	8.0	748.1	760.0	11.9	766.6	6.6	18.5
53	C	569553.76	1554830.23	756.2	8.0	748.2	760.0	11.8	766.8	6.8	18.6
54	C	569555.61	1554833.20	756.4	8.0	748.4	761.0	12.6	767.1	6.1	18.7
55	C	569557.45	1554836.18	756.5	8.0	748.5	761.0	12.5	767.3	6.3	18.8
56	C	569559.26	1554839.17	756.7	8.0	748.7	762.0	13.3	767.5	5.5	18.8
57	C	569561.07	1554842.17	756.9	8.0	748.9	762.0	13.1	767.8	5.8	18.9
58	C	569562.86	1554845.18	757.0	8.0	749.0	762.0	13.0	768.0	6.0	19.0
59	C	569564.63	1554848.20	757.2	8.0	749.2	763.0	13.8	768.3	5.3	19.1
60	C	569566.39	1554851.22	757.3	8.0	749.3	763.0	13.7	768.5	5.5	19.2
61	C	569568.14	1554854.26	757.5	8.0	749.5	763.0	13.5	768.7	5.7	19.2

REINFORCED DRILLED SHAFT SCHEDULE

SHAFT NO.	SHAFT TYPE	NORTHING (FT.) *	EASTING (FT.) *	APPROXIMATE TOP OF BEDROCK EL. (FT.)	MINIMUM BEDROCK SOCKET LENGTH (FT.) **	APPROXIMATE BOTTOM OF SHAFT EL. (FT.) **	TOP OF SHAFT/ BOTTOM OF CONTINUOUS WALL EL. (FT.)	ESTIMATED TOTAL CONCRETED SHAFT LENGTH (FT.) **	TOP OF CONTINUOUS WALL EL. (FT.)	HEIGHT OF CONTINUOUS WALL EL. (FT.)	ESTIMATED TOTAL SHAFT & CONTINUOUS WALL HEIGHT (FT.) **
62	C	569569.87	1554857.30	757.7	8.0	749.7	763.0	13.3	769.0	6.0	19.3
63	C	569571.58	1554860.35	757.9	8.0	749.9	763.0	13.1	769.2	6.2	19.3
64	C	569573.28	1554863.41	758.2	8.0	750.2	764.0	13.8	769.4	5.4	19.3
65	C	569574.97	1554866.48	758.4	8.0	750.4	764.0	13.6	769.7	5.7	19.3
66	C	569576.64	1554869.55	758.6	8.0	750.6	764.0	13.4	769.9	5.9	19.3
67	C	569578.29	1554872.64	758.8	8.0	750.8	765.0	14.2	770.2	5.2	19.3
68	C	569579.93	1554875.73	759.1	8.0	751.1	765.0	13.9	770.4	5.4	19.3
69	C	569581.57	1554878.82	759.3	8.0	751.3	765.0	13.7	770.6	5.6	19.4
70	C	569583.21	1554881.92	759.5	8.0	751.5	765.0	13.5	770.9	5.9	19.4
71	C	569584.84	1554885.01	759.7	8.0	751.7	766.0	14.3	771.1	5.1	19.4
72	C	569586.48	1554888.10	760.0	8.0	752.0	766.0	14.0	771.4	5.4	19.4
73	C	569588.12	1554891.20	760.2	8.0	752.2	766.0	13.8	771.6	5.6	19.4
74	C	569589.75	1554894.29	760.4	8.0	752.4	766.0	13.6	771.8	5.8	19.4
75	C	569591.39	1554897.39	760.6	8.0	752.6	766.0	13.4	772.1	6.1	19.4
76	C	569593.03	1554900.48	760.9	8.0	752.9	767.0	14.1	772.3	5.3	19.5
77	C	569594.66	1554903.57	761.1	8.0	753.1	767.0	13.9	772.6	5.6	19.5
78	C	569596.30	1554906.67	761.3	8.0	753.3	767.0	13.7	772.8	5.8	19.5
79	C	569597.94	1554909.76	761.5	8.0	753.5	768.0	14.5	773.0	5.0	19.5
80	C	569599.57	1554912.85	761.8	8.0	753.8	768.0	14.2	773.3	5.3	19.5
81	C	569601.21	1554915.95	762.0	8.0	754.0	768.0	14.0	773.5	5.5	19.5
82	C	569602.85	1554919.04	762.2	8.0	754.2	768.0	13.8	773.8	5.8	19.5
83	C	569604.48	1554922.14	762.4	8.0	754.4	768.0	13.6	774.0	6.0	19.6
84	C	569606.12	1554925.23	762.7	8.0	754.7	769.0	14.3	774.2	5.2	19.6
85	C	569607.76	1554928.32	762.9	8.0	754.9	769.0	14.1	774.5	5.5	19.6
86	A	569608.93	1554930.96	763.1	10.0	753.1	769.0	15.9	774.7	5.7	21.6
87	A	569611.81	1554936.41	763.5	10.0	753.5	769.0	15.5	775.1	6.1	21.6
88	C	569613.49	1554939.15	763.7	8.0	755.7	771.0	15.3	775.3	4.3	19.6
89	C	569615.12	1554942.25	763.9	8.0	755.9	771.0	15.1	775.6	4.6	19.7
90	C	569616.76	1554945.34	764.1	8.0	756.1	771.0	14.9	775.8	4.8	19.7
91	C	569618.40	1554948.44	764.3	8.0	756.3	772.0	15.7	776.0	4.0	19.7
92	C	569620.03	1554951.53	764.6	8.0	756.6	772.0	15.4	776.3	4.3	19.7
93	C	569621.69	1554954.61	764.8	8.0	756.8	772.0	15.2	776.5	4.5	19.7
94	C	569623.37	1554957.68	765.0	8.0	757.0	772.0	15.0	776.8	4.8	19.7
95	C	569625.06	1554960.75	765.2	8.0	757.2	772.0	14.8	777.0	5.0	19.7
96	C	569626.78	1554963.79	765.5	8.0	757.5	772.0	14.5	777.2	5.2	19.8
97	C	569628.52	1554966.83	765.7	8.0	757.7	772.0	14.3	777.5	5.5	19.8
98	C	569630.28	1554969.86	765.9	8.0	757.9	772.0	14.1	777.7	5.7	19.8
99	C	569632.06	1554972.87	766.1	8.0	758.1	772.0	13.9	777.9	5.9	19.8
100	C	569633.86	1554975.87	766.4	8.0	758.4	772.0	13.6	778.2	6.2	19.8
101	C	569635.68	1554978.86	766.6	8.0	758.6	772.0	13.4	778.4	6.4	19.8
102	C	569637.52	1554981.84	766.8	8.0	758.8	773.0	14.2	778.7	5.7	19.8
103	C	569639.38	1554984.81	767.0	8.0	759.0	773.0	14.0	778.9	5.9	19.9
104	C	569641.26	1554987.76	767.3	8.0	759.3	773.0	13.7	779.1	6.1	19.9
105	C	569643.16	1554990.70	767.5	8.0	759.5	773.0	13.5	779.4	6.4	19.9
106	C	569645.08	1554993.62	767.7	8.0	759.7	773.0	13.3	779.6	6.6	19.9
107	C	569647.02	1554996.54	768.0	8.0	760.0	773.0	13.0	779.9	6.9	19.9
108	C	569648.98	1554999.44	768.2	8.0	760.2	773.0	12.8	780.1	7.1	19.9
109	C	569650.95	1555002.32	768.5	8.0	760.5	773.0	12.5	780.3	7.3	19.9
110	C	569652.95	1555005.20	768.7	8.0	760.7	773.0	12.3	780.6	7.6	19.9
111	C	569654.97	1555008.06	769.0	8.0	761.0	773.0	12.0	780.8	7.8	19.9
112	C	569657.01	1555010.90	769.2	8.0	761.2	774.0	12.8	781.1	7.1	19.8
113	C	569659.06	1555013.74	769.5	8.0	761.5	774.0	12.5	781.3	7.3	19.8
114	C	569661.14	1555016.55	769.7	8.0	761.7	774.0	12.3	781.5	7.5	19.8
115	C	569663.23	1555019.36	770.0	8.0	762.0	774.0	12.1	781.8	7.8	19.8
116	C	569665.35	1555022.15	770.2	8.0	762.2	774.0	11.8	782.0	8.0	19.8
117	C	569667.48	1555024.92	770.4	8.0	762.4	774.0	11.6	782.3	8.3	19.8
118	C	569669.63	1555027.68	770.7	8.0	762.7	774.0	11.3	782.5	8.5	19.8
119	C	569671.80	1555030.43	770.9	8.0	762.9	774.0	11.1	782.7	8.7	19.8
120	C	569673.99	1555033.16	771.2	8.0	763.2	774.0	10.8	782.9	8.9	19.8
121	C	569676.20	1555035.88	771.4	8.0	763.4	775.0	11.6	783.2	8.2	19.8
122	C	569678.42	1555038.58	771.7	8.0	763.7	775.0	11.3	783.4	8.4	19.8

GEOTECHNOLOGY, INC.
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NO	REVISION	DATE

SCALE: AS SHOWN
DATE: 11/13/17
DESIGNED BY: JDH
DRAWN BY: JDH/RLC
CHECKED BY: WTB

AMSTERDAM ROAD IMPROVEMENTS
CITY OF FORT WRIGHT, KY.

DRILLED SHAFT SCHEDULE

ITEM NO: 6-438
PROJECT NO: 160777
DRAWING NAME: G-7
SHEET 21 OF 40

REINFORCED DRILLED SHAFT SCHEDULE

SHAFT NO.	SHAFT TYPE	NORTHING (FT.) *	EASTING (FT.) *	APPROXIMATE TOP OF BEDROCK EL. (FT.)	MINIMUM BEDROCK SOCKET LENGTH (FT.) **	APPROXIMATE BOTTOM OF SHAFT EL. (FT.) **	TOP OF SHAFT/ BOTTOM OF CONTINUOUS WALL EL. (FT.)	ESTIMATED TOTAL CONCRETED SHAFT LENGTH (FT.) **	TOP OF CONTINUOUS WALL EL. (FT.)	HEIGHT OF CONTINUOUS WALL EL. (FT.)	ESTIMATED TOTAL SHAFT & CONTINUOUS WALL HEIGHT (FT.) **
123	C	569680.66	1555041.27	771.9	8.0	763.9	776.0	12.1	783.7	7.7	19.7
124	C	569682.93	1555043.94	772.2	8.0	764.2	776.0	11.8	783.9	7.9	19.7
125	C	569685.20	1555046.59	772.4	8.0	764.4	777.0	12.6	784.1	7.1	19.7
126	C	569687.50	1555049.24	772.6	8.0	764.6	777.0	12.4	784.4	7.4	19.7
127	C	569689.82	1555051.86	772.9	8.0	764.9	777.0	12.1	784.6	7.6	19.7
128	C	569692.15	1555054.47	773.1	8.0	765.1	777.0	11.9	784.8	7.8	19.7
129	C	569694.50	1555057.06	773.4	8.0	765.4	778.0	12.6	785.1	7.1	19.7
130	C	569696.87	1555059.64	773.6	8.0	765.6	778.0	12.4	785.3	7.3	19.7
131	C	569699.25	1555062.20	773.9	8.0	765.9	778.0	12.1	785.5	7.5	19.7
132	C	569701.66	1555064.75	774.1	8.0	766.1	779.0	12.9	785.8	6.8	19.6
133	C	569704.08	1555067.27	774.4	8.0	766.4	779.0	12.6	786.0	7.0	19.6
134	C	569706.51	1555069.79	774.6	8.0	766.6	779.0	12.4	786.2	7.2	19.6
135	C	569708.97	1555072.28	774.9	8.0	766.9	779.0	12.2	786.5	7.5	19.6
136	C	569711.44	1555074.76	775.1	8.0	767.1	779.0	11.9	786.7	7.7	19.6
137	C	569713.93	1555077.22	775.3	8.0	767.3	780.0	12.7	786.9	6.9	19.6
138	C	569716.43	1555079.67	775.6	8.0	767.6	780.0	12.4	787.2	7.2	19.6
139	C	569718.95	1555082.10	775.8	8.0	767.8	780.0	12.2	787.4	7.4	19.6
140	C	569721.49	1555084.51	776.1	8.0	768.1	780.0	11.9	787.6	7.6	19.6
141	C	569724.04	1555086.90	776.3	8.0	768.3	780.0	11.7	787.9	7.9	19.6
142	C	569726.61	1555089.28	776.6	8.0	768.6	780.0	11.4	788.1	8.1	19.5
143	C	569729.19	1555091.64	776.8	8.0	768.8	780.0	11.2	788.3	8.3	19.5
144	C	569731.80	1555093.98	777.1	8.0	769.1	780.0	10.9	788.6	8.6	19.5
145	C	569734.41	1555096.30	777.3	8.0	769.3	781.0	11.7	788.8	7.8	19.5
146	C	569737.05	1555098.61	777.5	8.0	769.5	781.0	11.5	789.0	8.0	19.5
147	C	569739.69	1555100.90	777.8	8.0	769.8	781.0	11.2	789.3	8.3	19.5
148	C	569742.36	1555103.17	778.0	8.0	770.0	781.0	11.0	789.5	8.5	19.5
149	C	569745.03	1555105.43	778.3	8.0	770.3	782.0	11.7	789.7	7.7	19.5
150	C	569747.69	1555107.70	778.5	8.0	770.5	782.0	11.5	790.0	8.0	19.5
151	C	569750.36	1555109.97	778.7	8.0	770.7	782.0	11.3	790.2	8.2	19.5
152	C	569753.03	1555112.23	779.0	8.0	771.0	783.0	12.0	790.5	7.5	19.5
153	C	569755.68	1555114.51	779.2	8.0	771.2	783.0	11.8	790.7	7.7	19.5
154	C	569758.31	1555116.82	779.4	8.0	771.4	783.0	11.6	790.9	7.9	19.5
155	C	569760.93	1555119.15	779.7	8.0	771.7	783.0	11.3	791.2	8.2	19.5
156	C	569763.52	1555121.50	779.9	8.0	771.9	783.0	11.1	791.4	8.4	19.5
157	C	569766.09	1555123.87	780.1	8.0	772.1	783.0	10.9	791.6	8.6	19.5
158	C	569768.64	1555126.27	780.4	8.0	772.4	783.0	10.6	791.9	8.9	19.5
159	C	569771.17	1555128.69	780.6	8.0	772.6	783.0	10.4	792.1	9.1	19.5
160	C	569773.69	1555131.13	780.8	8.0	772.8	783.0	10.2	792.3	9.3	19.5
161	C	569776.17	1555133.59	781.1	8.0	773.1	783.0	9.9	792.6	9.6	19.5
162	C	569778.64	1555136.07	781.3	8.0	773.3	784.0	10.7	792.8	8.8	19.5
163	C	569781.09	1555138.57	781.5	8.0	773.5	784.0	10.5	793.0	9.0	19.5
164	C	569783.51	1555141.09	781.8	8.0	773.8	784.0	10.2	793.3	9.3	19.5
165	C	569785.92	1555143.64	782.0	8.0	774.0	785.0	11.0	793.5	8.5	19.5
166	C	569788.30	1555146.20	782.2	8.0	774.2	785.0	10.8	793.7	8.7	19.5
167	C	569790.66	1555148.79	782.5	8.0	774.5	785.0	10.5	794.0	9.0	19.5
168	C	569793.00	1555151.39	782.7	8.0	774.7	786.0	11.3	794.2	8.2	19.5
169	C	569795.31	1555154.02	782.9	8.0	774.9	786.0	11.1	794.4	8.4	19.5
170	C	569797.60	1555156.66	783.1	8.0	775.1	787.0	11.9	794.7	7.7	19.5
171	C	569799.87	1555159.33	783.4	8.0	775.4	787.0	11.6	794.9	7.9	19.5
172	C	569802.12	1555162.01	783.6	8.0	775.6	788.0	12.4	795.1	7.1	19.5
173	C	569804.34	1555164.72	783.8	8.0	775.8	788.0	12.2	795.4	7.4	19.5
174	C	569806.54	1555167.44	784.1	8.0	776.1	789.0	12.9	795.6	6.6	19.5
175	C	569808.72	1555170.18	784.3	8.0	776.3	789.0	12.7	795.9	6.9	19.5
176	C	569810.87	1555172.94	784.5	8.0	776.5	789.0	12.5	796.1	7.1	19.6
177	C	569813.00	1555175.72	784.8	8.0	776.8	790.0	13.2	796.4	6.4	19.6
178	C	569815.11	1555178.51	785.0	8.0	777.0	790.0	13.0	796.6	6.6	19.6
179	C	569817.19	1555181.33	785.2	8.0	777.2	790.0	12.8	796.9	6.9	19.7
180	C	569819.25	1555184.16	785.5	8.0	777.5	791.0	13.5	797.2	6.2	19.7
181	C	569821.28	1555187.01	785.7	8.0	777.7	791.0	13.3	797.4	6.4	19.7
182	C	569823.29	1555189.87	785.9	8.0	777.9	791.0	13.1	797.7	6.7	19.8
183	C	569825.27	1555192.76	786.2	8.0	778.2	791.0	12.8	798.0	7.0	19.8

REINFORCED DRILLED SHAFT SCHEDULE

SHAFT NO.	SHAFT TYPE	NORTHING (FT.) *	EASTING (FT.) *	APPROXIMATE TOP OF BEDROCK EL. (FT.)	MINIMUM BEDROCK SOCKET LENGTH (FT.) **	APPROXIMATE BOTTOM OF SHAFT EL. (FT.) **	TOP OF SHAFT/ BOTTOM OF CONTINUOUS WALL EL. (FT.)	ESTIMATED TOTAL CONCRETED SHAFT LENGTH (FT.) **	TOP OF CONTINUOUS WALL EL. (FT.)	HEIGHT OF CONTINUOUS WALL EL. (FT.)	ESTIMATED TOTAL SHAFT & CONTINUOUS WALL HEIGHT (FT.) **
184	C	569827.23	1555195.66	786.4	8.0	778.4	792.0	13.6	798.2	6.2	19.8
185	C	569829.16	1555198.57	786.6	8.0	778.6	792.0	13.4	798.5	6.5	19.9
186	C	569831.08	1555201.50	786.9	8.0	778.9	792.0	13.1	798.8	6.8	19.9
187	C	569832.99	1555204.43	787.0	8.0	779.0	792.0	13.0	799.0	7.0	20.0
188	C	569834.90	1555207.37	787.1	8.0	779.1	792.0	12.9	799.3	7.3	20.2
189	B	569836.82	1555210.30	787.2	9.0	778.2	792.0	13.8	799.6	7.6	21.3
190	B	569838.73	1555213.23	787.3	9.0	778.3	792.0	13.7	799.8	7.8	21.5
191	B	569840.64	1555216.16	787.4	9.0	778.4	792.0	13.6	800.1	8.1	21.7
192	B	569842.56	1555219.09	787.5	9.0	778.5	792.0	13.5	800.4	8.4	21.8
193	B	569844.47	1555222.02	787.6	9.0	778.6	792.0	13.4	800.6	8.6	22.0
194	B	569846.38	1555224.95	787.7	9.0	778.7	793.0	14.3	800.9	7.9	22.2
195	A	569848.13	1555227.99	787.8	10.0	777.8	793.0	15.2	801.2	8.2	23.4
196	A	569850.32	1555231.34	787.9	10.0	777.9	793.0	15.1	801.5	8.5	23.6
197	A	569852.50	1555234.69	788.0	10.0	778.0	794.0	16.0	801.8	7.8	23.8
198	A	569854.69	1555238.04	788.1	10.0	778.1	794.0	15.9	802.1	8.1	24.0
199	A	569856.88	1555241.39	788.2	10.0	778.2	795.0	16.8	802.4	7.4	24.2
200	A	569859.06	1555244.74	788.3	10.0	778.3	795.0	16.7	802.7	7.7	24.3
201	A	569861.25	1555248.09	788.4	10.0	778.4	795.0	16.6	803.0	8.0	24.5
202	A	569863.44	1555251.43	788.5	10.0	778.5	796.0	17.5	803.3	7.3	24.7
203	A	569865.63	1555254.78	788.6	10.0	778.6	796.0	17.4	803.6	7.6	24.9
204	A	569867.83	1555258.12	788.8	10.0	778.8	796.0	17.2	803.9	7.9	25.1
205	E	569869.94	1555260.92	788.9	N/A	784.7	796.0	11.3	804.2	8.2	19.5
206	E	569871.91	1555263.81	789.0	N/A	784.9	797.0	12.1	804.4	7.4	19.5
207	E	569873.89	1555266.70	789.0	N/A	785.2	797.0	11.8	804.7	7.7	19.5
208	E	569875.88	1555269.58	789.1	N/A	785.4	798.0	12.6	804.9	6.9	19.5
209	E	569877.89	1555272.44	789.2	N/A	785.7	798.0	12.3	805.2	7.2	19.5
210	E	569879.92	1555275.30	789.3	N/A	786.0	798.0	12.0	805.5	7.5	19.5
211	E	569881.96	1555278.14	789.4	N/A	786.2	799.0	12.8	805.7	6.7	19.5
212	E	569884.02	1555280.97	789.5	N/A	786.5	800.0	13.5	806.0	6.0	19.5
213	E	569886.09	1555283.79	789.6	N/A	786.8	800.0	13.2	806.3	6.3	19.5
214	E	569888.18	1555286.60	789.7	N/A	787.0	800.0	13.0	806.5	6.5	19.5
215	E	569890.28	1555289.40	789.8	N/A	787.3	800.0	12.7	806.8	6.8	19.5
216	E	569892.40	1555292.18	789.9	N/A	787.6	800.0	12.4	807.1	7.1	19.5
217	E	569894.54	1555294.96	790.0	N/A	787.8	800.0	12.2	807.3	7.3	19.5
218	E	569896.68	1555297.72	790.1	N/A	788.1	800.0	11.9	807.6	7.6	19.5
219	E	569898.85	1555300.47	790.2	N/A	788.4	800.0	11.6	807.9	7.9	19.5
220	E	569901.03	1555303.21	790.3	N/A	788.6	801.0	12.4	808.1	7.1	19.5
221	E	569903.22	1555305.93	790.4	N/A	788.9	801.0	12.1	808.4	7.4	19.5
222	E	569905.43	1555308.65	790.5	N/A	789.2	801.0	11.8	808.7	7.7	19.5
223	E	569907.66	1555311.35	790.5	N/A	789.4	801.0	11.6	808.9	7.9	19.5
224	E	569909.90	1555314.04	790.5	N/A	789.7	801.0	11.3	809.2	8.2	19.5
225	E	569912.15	1555316.72	790.4	N/A	790.0	802.0	12.0	809.5	7.5	19.5
226	E	569914.42	1555319.38	790.4	N/A	790.2	802.0	11.8	809.7	7.7	19.5
227	E	569916.70	1555322.04	790.4	N/A	790.5	803.0	12.5	810.0	7.0	19.5
228	E	569919.00	1555324.68	790.3	N/A	790.8	803.0	12.2	810.3	7.3	19.5
229	E	569921.31	1555327.31	790.3	N/A	791.0	803.0	12.0	810.5	7.5	19.5
230	E	569923.64	1555329.92	790.3	N/A	791.3	803.0	11.7	810.8	7.8	19.5
231	E	569925.98	1555332.52	790.2	N/A	791.5	803.0	11.5	811.0	8.0	19.5
232	E	569928.33	1555335.11	790.2	N/A	791.8	804.0	12.2	811.3	7.3	19.5
233	E	569930.70	1555337.69	790.2	N/A	792.1	804.0	11.9	811.6	7.6	19.5
234	E	569933.08	1555340.25	790.2	N/A	792.3	804.0	11.7	811.8	7.8	19.5
235	E	569935.48	1555342.80	790.1	N/A	792.6	805.0	12.4	812.1	7.1	19.5
236	E	569937.89	1555345.34	790.1	N/A	792.9	805.0	12.1	812.4	7.4	19.5
237	E	569940.31	1555347.87	790.1	N/A	793.1	805.0	11.9	812.6	7.6	19.5
238	E	569942.75	1555350.38	790.0	N/A	793.4	805.0	11.6	812.9	7.9	19.5
239	E	569945.20	1555352.87	790.0	N/A	793.7	805.0	11.3	813.2	8.2	19.5
240	E	569947.67	1555355.36	790.0	N/A	793.9	805.0	11.1	813.4	8.4	19.5
241	E	569950.15	1555357.83	790.0	N/A	794.2	806.0	11.8	813.7	7.7	19.5
242	E	569952.64	1555360.28	789.9	N/A	794.5	806.0	11.5	814.0	8.0	19.5
243	E	569955.15	1555362.73	789.9	N/A	794.7	806.0	11.3	814.2	8.2	19.5
244	E	569957.67	1555365.16	789.9	N/A	795.0	806.0	11.0	814.5	8.5	19.5

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NO	REVISION	DATE

SCALE: AS SHOWN
DATE: 11/13/17
DESIGNED BY: JDH
DRAWN BY: JDH/RLC
CHECKED BY: WTB

AMSTERDAM ROAD
IMPROVEMENTS
CITY OF FORT WRIGHT, KY.

DRILLED SHAFT SCHEDULE

ITEM NO: 6-438
PROJECT NO: 160777
DRAWING NAME: G-8
SHEET 22 OF 40

REINFORCED DRILLED SHAFT SCHEDULE

SHAFT NO.	SHAFT TYPE	NORTHING (FT.) *	EASTING (FT.) *	APPROXIMATE TOP OF BEDROCK EL. (FT.)	MINIMUM BEDROCK SOCKET LENGTH (FT.) **	APPROXIMATE BOTTOM OF SHAFT EL. (FT.) **	TOP OF SHAFT/ BOTTOM OF CONTINUOUS WALL EL. (FT.)	ESTIMATED TOTAL CONCRETED SHAFT LENGTH (FT.) **	TOP OF CONTINUOUS WALL EL. (FT.)	HEIGHT OF CONTINUOUS WALL EL. (FT.)	ESTIMATED TOTAL SHAFT & CONTINUOUS WALL HEIGHT (FT.) **
245	F	569960.20	1555367.57	789.8	N/A	787.8	806.0	18.2	814.8	8.8	27.0
246	F	569962.75	1555369.97	789.8	N/A	788.0	806.0	18.0	815.0	9.0	27.0
247	F	569965.31	1555372.36	789.8	N/A	788.3	807.0	18.7	815.3	8.3	27.0
248	F	569967.88	1555374.74	789.8	N/A	788.6	807.0	18.4	815.6	8.6	27.0
249	F	569970.46	1555377.10	789.7	N/A	788.8	807.0	18.2	815.8	8.8	27.0
250	F	569973.06	1555379.44	789.7	N/A	789.1	808.0	18.9	816.1	8.1	27.0
251	F	569975.67	1555381.77	789.7	N/A	789.4	808.0	18.6	816.4	8.4	27.0
252	F	569978.30	1555384.09	789.6	N/A	789.6	809.0	19.4	816.6	7.6	27.0
253	F	569980.92	1555386.40	789.6	N/A	789.9	809.0	19.1	816.9	7.9	27.0
254	F	569983.55	1555388.71	789.6	N/A	790.1	809.0	18.9	817.1	8.1	27.0
255	F	569986.18	1555391.03	789.6	N/A	790.4	809.0	18.6	817.4	8.4	27.0
256	F	569988.80	1555393.34	789.5	N/A	790.7	809.0	18.3	817.7	8.7	27.0
257	F	569991.43	1555395.65	789.5	N/A	790.9	809.0	18.1	817.9	8.9	27.0
258	F	569994.06	1555397.97	789.5	N/A	791.2	809.0	17.8	818.2	9.2	27.0
259	F	569996.68	1555400.28	789.4	N/A	791.5	809.0	17.5	818.5	9.5	27.0
260	F	569999.31	1555402.59	789.4	N/A	791.7	810.0	18.3	818.7	8.7	27.0
261	F	570001.94	1555404.91	789.4	N/A	792.0	810.0	18.0	819.0	9.0	27.0
262	F	570004.56	1555407.22	789.4	N/A	792.3	810.0	17.7	819.3	9.3	27.0
263	F	570007.19	1555409.53	789.3	N/A	792.5	810.0	17.5	819.5	9.5	27.0
264	F	570009.82	1555411.85	789.3	N/A	792.8	810.0	17.2	819.8	9.8	27.0
265	F	570012.44	1555414.16	789.3	N/A	793.1	810.0	16.9	820.1	10.1	27.0
266	F	570015.07	1555416.47	789.2	N/A	793.3	810.0	16.7	820.3	10.3	27.0
267	F	570017.70	1555418.79	789.2	N/A	793.6	811.0	17.4	820.6	9.6	27.0
268	F	570020.32	1555421.10	789.2	N/A	793.8	811.0	17.2	820.8	9.8	27.0
269	F	570022.95	1555423.41	789.2	N/A	794.1	811.0	16.9	821.1	10.1	27.0
270	F	570025.58	1555425.73	789.1	N/A	794.3	811.0	16.7	821.3	10.3	27.0
271	F	570028.20	1555428.04	789.1	N/A	794.5	811.0	16.5	821.5	10.5	27.0
272	F	570030.83	1555430.35	789.1	N/A	794.8	811.0	16.2	821.8	10.8	27.0
273	F	570033.46	1555432.66	789.0	N/A	795.0	812.0	17.0	822.0	10.0	27.0
274	F	570036.08	1555434.98	789.0	N/A	795.3	812.0	16.7	822.3	10.3	27.0
275	F	570038.71	1555437.29	788.9	N/A	795.5	812.0	16.5	822.5	10.5	27.0
276	F	570041.33	1555439.60	788.4	N/A	795.7	812.0	16.3	822.7	10.7	27.0
277	G	570043.83	1555442.07	787.9	N/A	788.0	812.0	24.0	823.0	11.0	35.0
278	G	570046.46	1555444.38	787.5	N/A	788.2	812.0	23.8	823.2	11.2	35.0
279	G	570049.08	1555446.69	787.0	N/A	788.4	812.0	23.6	823.4	11.4	35.0
280	G	570051.71	1555449.01	786.6	N/A	788.7	812.0	23.3	823.7	11.7	35.0
281	G	570054.33	1555451.32	786.1	N/A	788.9	812.0	23.1	823.9	11.9	35.0
282	G	570056.94	1555453.65	785.6	N/A	789.1	812.0	22.9	824.1	12.1	35.0
283	G	570059.53	1555456.00	785.2	N/A	789.4	812.0	22.6	824.4	12.4	35.0
284	G	570062.11	1555458.37	784.7	N/A	789.6	812.0	22.4	824.6	12.6	35.0
285	G	570064.67	1555460.76	784.3	N/A	789.9	812.0	22.1	824.9	12.9	35.0
286	G	570067.22	1555463.16	783.8	N/A	790.1	812.0	21.9	825.1	13.1	35.0
287	G	570069.75	1555465.58	783.3	N/A	790.3	813.0	22.7	825.3	12.3	35.0
288	G	570072.26	1555468.02	782.9	N/A	790.6	813.0	22.4	825.6	12.6	35.0
289	G	570074.75	1555470.47	782.4	N/A	790.8	813.0	22.2	825.8	12.8	35.0
290	G	570077.23	1555472.94	782.0	N/A	791.0	813.0	22.0	826.0	13.0	35.0
291	G	570079.70	1555475.43	781.5	N/A	791.3	814.0	22.7	826.3	12.3	35.0
292	G	570082.14	1555477.93	781.0	N/A	791.5	814.0	22.5	826.5	12.5	35.0
293	G	570084.57	1555480.45	780.6	N/A	791.8	814.0	22.2	826.8	12.8	35.0
294	G	570086.98	1555482.99	780.1	N/A	792.0	815.0	23.0	827.0	12.0	35.0
295	G	570089.38	1555485.54	779.7	N/A	792.2	815.0	22.8	827.2	12.2	35.0
296	G	570091.75	1555488.11	779.2	N/A	792.5	815.0	22.5	827.5	12.5	35.0
297	G	570094.11	1555490.70	778.7	N/A	792.7	815.0	22.3	827.7	12.7	35.0
298	G	570096.45	1555493.30	778.3	N/A	792.9	816.0	23.1	827.9	11.9	35.0
299	G	570098.78	1555495.92	777.8	N/A	793.2	816.0	22.8	828.2	12.2	35.0
300	G	570101.08	1555498.55	777.4	N/A	793.4	816.0	22.6	828.4	12.4	35.0
301	G	570103.37	1555501.20	776.9	N/A	793.6	816.0	22.4	828.6	12.6	35.0
302	G	570105.64	1555503.86	776.4	N/A	793.9	817.0	23.1	828.9	11.9	35.0
303	G	570107.90	1555506.54	776.0	N/A	794.1	817.0	22.9	829.1	12.1	35.0
304	G	570110.13	1555509.23	775.5	N/A	794.4	817.0	22.6	829.4	12.4	35.0
305	G	570112.35	1555511.94	775.1	N/A	794.6	818.0	23.4	829.6	11.6	35.0

REINFORCED DRILLED SHAFT SCHEDULE

SHAFT NO.	SHAFT TYPE	NORTHING (FT.) *	EASTING (FT.) *	APPROXIMATE TOP OF BEDROCK EL. (FT.)	MINIMUM BEDROCK SOCKET LENGTH (FT.) **	APPROXIMATE BOTTOM OF SHAFT EL. (FT.) **	TOP OF SHAFT/ BOTTOM OF CONTINUOUS WALL EL. (FT.)	ESTIMATED TOTAL CONCRETED SHAFT LENGTH (FT.) **	TOP OF CONTINUOUS WALL EL. (FT.)	HEIGHT OF CONTINUOUS WALL EL. (FT.)	ESTIMATED TOTAL SHAFT & CONTINUOUS WALL HEIGHT (FT.) **
306	G	570114.54	1555514.67	775.1	N/A	794.8	818.0	23.2	829.8	11.8	35.0
307	G	570116.72	1555517.40	775.2	N/A	795.1	818.0	22.9	830.1	12.1	35.0
308	G	570118.89	1555520.16	775.3	N/A	795.3	818.0	22.7	830.3	12.3	35.0
309	G	570121.03	1555522.93	775.4	N/A	795.5	818.0	22.5	830.5	12.5	35.0
310	G	570123.15	1555525.71	775.5	N/A	795.8	820.0	24.2	830.8	10.8	35.0
311	G	570125.26	1555528.50	775.6	N/A	796.0	820.0	24.0	831.0	11.0	35.0
312	G	570127.34	1555531.31	775.7	N/A	796.2	820.0	23.8	831.2	11.2	35.0
313	G	570129.41	1555534.14	775.7	N/A	796.5	821.0	24.5	831.5	10.5	35.0
314	G	570131.45	1555536.98	775.8	N/A	796.7	821.0	24.3	831.7	10.7	35.0
315	G	570133.48	1555539.83	775.9	N/A	797.0	821.0	24.0	832.0	11.0	35.0
316	G	570135.49	1555542.70	776.0	N/A	797.2	821.0	23.8	832.2	11.2	35.0
317	G	570137.48	1555545.58	776.1	N/A	797.4	822.0	24.6	832.4	10.4	35.0
318	G	570139.45	1555548.47	776.2	N/A	797.7	822.0	24.3	832.7	10.7	35.0
319	G	570141.40	1555551.38	776.3	N/A	797.9	822.0	24.1	832.9	10.9	35.0
320	G	570143.33	1555554.30	776.4	N/A	798.1	822.0	23.9	833.1	11.1	35.0
321	G	570145.24	1555557.23	776.5	N/A	798.4	823.0	24.6	833.4	10.4	35.0
322	G	570147.13	1555560.17	776.6	N/A	798.6	823.0	24.4	833.6	10.6	35.0
323	G	570149.00	1555563.13	776.7	N/A	798.8	824.0	25.2	833.8	9.8	35.0
324	G	570150.86	1555566.10	776.8	N/A	799.1	824.0	24.9	834.1	10.1	35.0
325	F	570152.86	1555568.98	776.9	N/A	807.3	825.0	17.7	834.3	9.3	27.0
326	F	570154.67	1555571.98	777.0	N/A	807.6	825.0	17.4	834.6	9.6	27.0
327	F	570156.46	1555574.98	777.1	N/A	807.8	825.0	17.2	834.8	9.8	27.0
328	F	570158.23	1555578.00	777.2	N/A	808.0	825.0	17.0	835.0	10.0	27.0
329	F	570159.98	1555581.03	777.3	N/A	808.2	826.0	17.8	835.2	9.2	27.0
330	F	570161.71	1555584.08	777.4	N/A	808.5	826.0	17.5	835.5	9.5	27.0
331	F	570163.41	1555587.13	777.5	N/A	808.7	826.0	17.3	835.7	9.7	27.0
332	F	570165.10	1555590.20	777.6	N/A	808.9	826.0	17.1	835.9	9.9	27.0
333	F	570166.77	1555593.28	777.6	N/A	809.1	826.0	16.9	836.1	10.1	27.0
334	F	570168.41	1555596.36	777.7	N/A	809.4	827.0	17.6	836.4	9.4	27.0
335	F	570170.04	1555599.46	777.8	N/A	809.6	828.0	18.4	836.6	8.6	27.0
336	F	570171.64	1555602.57	777.9	N/A	809.8	829.0	19.2	836.8	7.8	27.0
337	E	570173.23	1555605.70	778.0	N/A	817.5	829.0	11.5	837.0	8.0	19.5
338	E	570174.79	1555608.83	778.1	N/A	817.7	829.0	11.3	837.2	8.2	19.5
339	E	570176.33	1555611.97	778.2	N/A	817.9	830.0	12.1	837.4	7.4	19.5
340	E	570177.87	1555615.11	778.3	N/A	818.1	832.0	13.9	837.6	5.6	19.5
341	E	570179.41	1555618.26	778.4	N/A	818.3	832.0	13.7	837.8	5.8	19.5

GEOTECHNOLOGY INC
FROM THE GROUND UP

your trusted advisor
consultants
-engineers
-architects
-planners

NO	REVISION	DATE

SCALE: AS SHOWN
DATE: 11/13/17
DESIGNED BY: JDH
DRAWN BY: JDH/RLC
CHECKED BY: WTB

AMSTERDAM ROAD IMPROVEMENTS
CITY OF FORT WRIGHT, KY.

DRILLED SHAFT SCHEDULE

ITEM NO: 6-438
PROJECT NO: 160777
DRAWING NAME: G-9
SHEET 23 OF 40

PLUG SHAFT SCHEDULE

SHAFT NO.	SHAFT DIAMETER (IN.)	APPROXIMATE BOTTOM OF SHAFT EL. (FT.) **	TOP OF CONCRETE EL. (FT.)	ESTIMATED TOTAL SHAFT LENGTH (FT.) **
P101	24	739.7	746.0	6.3
P102	24	740.1	748.0	7.9
P103	24	740.6	748.0	7.4
P104	24	740.9	748.0	7.1
P105	24	741.3	748.0	6.7
P106	24	741.7	749.0	7.3
P107	24	742.1	749.0	6.9
P108	24	742.5	750.0	7.5
P109	24	742.9	750.0	7.1
P110	24	743.3	750.0	6.7
P111	24	743.7	750.0	6.3
P112	24	744.1	751.0	6.9
P113	24	744.4	751.0	6.6
P114	24	744.8	751.0	6.2
P115	24	745.2	751.0	5.8
P116	24	745.6	751.0	5.4
P117	24	746.0	751.0	5.0
P118	24	746.4	751.0	4.6
P119	24	746.8	752.0	5.2
P120	24	756.6	761.0	4.4
P121	24	756.8	762.0	5.2
P122	24	756.9	762.0	5.1
P123	24	757.1	762.0	4.9
P124	24	757.3	763.0	5.8
P125	24	757.4	763.0	5.6
P126	24	757.6	763.0	5.4
P127	24	757.8	763.0	5.2
P128	24	758.0	763.0	5.0
P129	24	758.3	764.0	5.7
P130	24	758.5	764.0	5.5
P131	24	758.7	764.0	5.3
P132	24	758.9	765.0	6.1
P133	24	759.2	765.0	5.8
P134	24	759.4	765.0	5.6
P135	24	759.6	765.0	5.4
P136	24	759.8	766.0	6.2
P137	24	760.1	766.0	5.9
P138	24	760.3	766.0	5.7
P139	24	760.5	766.0	5.5
P140	24	760.7	766.0	5.3
P141	24	761.0	767.0	6.0
P142	24	761.2	767.0	5.8
P143	24	761.4	767.0	5.6
P144	24	761.6	768.0	6.4
P145	24	761.9	768.0	6.1
P146	24	762.1	768.0	5.9
P147	24	762.3	768.0	5.7
P148	24	762.5	768.0	5.5
P149	24	762.8	769.0	6.2
P150	24	763.8	771.0	7.2
P151	24	764.0	771.0	7.0
P152	24	764.2	771.0	6.8
P153	24	764.5	772.0	7.5
P154	24	764.7	772.0	7.3
P155	24	764.9	772.0	7.1
P156	24	765.1	772.0	6.9
P157	24	765.4	772.0	6.6
P158	24	765.6	772.0	6.4
P159	24	765.8	772.0	6.2
P160	24	766.0	772.0	6.0
P161	24	766.3	772.0	5.7
P162	24	766.5	772.0	5.5
P163	24	766.7	772.0	5.3
P164	24	766.9	773.0	6.1
P165	24	767.2	773.0	5.8
P166	24	767.4	773.0	5.6

* SET TOPS OF UNREINFORCED PLUG SHAFTS EVEN WITH THE TOP OF THE LOWEST ADJACENT REINFORCED SHAFT.

GENERAL NOTES

1. The drilled shaft wall was designed based on ground surface profiles provided by CT Consultants, Inc. above the wall and along the downslope face of the wall.
2. The Contractor shall refer to the Drilled Shaft Wall Plans and these General Notes and shall satisfy the requirements of both. Any discrepancies between the Drilled Shaft Wall Plans and these General Notes shall be brought to the attention of the Project Geotechnical Engineer in writing. The resolution of any discrepancy shall be at the sole discretion of the Project Geotechnical Engineer.
3. The Contractor shall obtain any necessary permits that are required for this work prior to performance of this work.
4. The Contractor shall coordinate a staging area for stockpiling materials, including drilling and excavation spoils.
5. The Contractor shall coordinate with all utility companies to check for underground utilities within the work area before the shafts are drilled. Geotechnology, Inc. (Geotechnology) shall be notified of any existing utilities within the proposed drilled shaft locations that are either not shown on the Drilled Shaft Wall Plans or located along alignments that deviate from those shown on the Drilled Shaft Wall Plans.
6. The Contractor shall coordinate the Drilled Shaft Wall Plans and the field conditions. The Project Geotechnical Engineer shall approve of the adjustments and adjust the reinforcing steel design and/or bedrock socket length, if necessary.
7. Staking of the drilled shafts shall be the responsibility of the Contractor.
8. All drilled shaft excavations shall be reviewed by the Project Geotechnical Engineer from Geotechnology, or a representative thereof, at the expense of the Owner prior to placing reinforcing steel and concrete. Final interpretation of the Drilled Shaft Wall Plans and the General Notes shall be at the discretion of the Project Geotechnical Engineer.
9. The drilled shafts shall be drilled with dry drilling methods and shall be drilled so that they do not collapse during drilling, placement of reinforcing steel, and/or concreting. Casing of the drilled shafts shall be provided, as necessary, to control caving soils and/or excessive groundwater seepage.
10. The drilled shafts shall be excavated plumb, and the bottoms shall be relatively level and reasonably free of loose and disturbed material prior to placing concrete. The out-of-plumb tolerance shall be 1.5 percent of the shaft length. Some of the drilled shaft excavations will extend into the interbedded shale and limestone bedrock, and the Contractor shall be prepared to drill through the bedrock with the proper equipment.
11. Drilling and excavation spoils shall be wasted off site.
12. Concrete:
    A. Concrete for the drilled shafts shall have a minimum 28-day compressive strength (f'_c) of 4,000 psi, shall have a maximum aggregate size of 1.5 inches, and shall be placed at a slump of 5 to 7 inches, except 3,000 psi concrete shall be used for the unreinforced plug shafts.
    B. Concrete shall not be placed through more than 3 inches of standing water that may accumulate at the bottom of any drilled shaft excavation. During concrete placement for the drilled shafts, the concrete shall be directed through the center of the reinforcing steel cages so as not to strike the cages during freefall and to avoid causing segregation of the concrete. Concrete placement for any given drilled shaft shall be continuous. If casing is required during the drilled shaft excavations, the temporary casing shall be extracted at such a rate and in such a manner that the overburden soils do not cave into the shaft during concrete placement and that pockets of air and soil are not introduced into the concrete. The top 6 feet of concrete in the drilled shafts shall be vibrated with a concrete vibrator. Where necessary, temporary cylindrical forms shall be used for forming the concrete above existing grades. Cold joints shall not be used in the drilled shafts without prior written approval from the Project Geotechnical Engineer. If cold joints are used, they shall be cleaned and prepared per ACI 301 specifications.
    C. Concrete for the continuous formed wall shall have a minimum 28-day compressive strength (f'_c) of 4,000 psi, a maximum aggregate size of 3/4 inches, and shall contain 4 to 6 percent entrained air.
    D. Concrete for the continuous formed wall shall be consolidated with a concrete vibrator.
    E. The Contractor shall follow the guidelines within ACI 301, "Standard Specifications for Structural Concrete," and, when necessary, shall implement the practices outlined within ACI 305, "Hot Weather Concreting," or ACI 306, "Cold Weather Concreting."
13. The reinforcing steel bars for the drilled shafts and continuous formed wall shall conform to ASTM A615, Grade 60 and shall have a minimum yield strength (f_y) of 60,000 psi (60 ksi), unless noted otherwise. All reinforcing steel construction and placement shall be in conformance with ACI 318-11. All reinforcing steel shall be relatively clean of rust, soil, and other debris immediately prior to the placement of concrete. Unless noted otherwise, all reinforcing steel shall have minimum clear cover of 3 inches where the concrete is cast against soil or bedrock and 2 inches where the concrete is cast against forms. Plastic bottom bolsters and spacers shall be provided to maintain the proper clear cover in the drilled shafts.
14. The top of the continuous formed wall shall slope to match the top of wall elevations indicated in the drilled shaft schedules on Sheets 108 through 110.
16. Sealant for the contraction and expansion joints shall consist of weather-resistant polyurethane or silicone that will remain flexible after placement. Expansion joint filler shall consist of a compressible, elastic, and nonextruding premolded mastic or cork filler.
17. Clay backfill shall consist of clean lean clay soils, classifying as CL according to the Unified Soil Classification System (USCS) with a maximum liquid limit of 45% and a maximum plasticity index of 25%. Clay backfill shall be compacted to at least 95 percent of the standard Proctor maximum dry density (ASTM D698). Bedrock may be used within the clay backfill in accordance with the provisions in the General Notes of the Project Plans prepared by CT Consultants, Inc.
18. Granular backfill behind the formed continuous wall for the drainage system shall consist of clean, crushed No. 57 stone with less than 3 percent fines. The granular backfill shall be placed in 4- to 6-inch-thick lifts and compacted to at least 75 percent relative density (ASTM D4253 and ASTM D4254).
19. Non-woven drainage geotextile shall consist of Mirafi 140N or an approved equivalent.
20. Refer to the boring logs in the August 21, 2017 Geotechnical Services Report, prepared by Geotechnology, Inc. for this project, for subsurface information.
21. Geotechnology has designed the drilled shafts and continuous formed wall to support the lateral earth pressures for the proposed grades shown on the Drilled Shaft Wall Plans prepared by CT Consultants, Inc. Geotechnology assumes no responsibility for, but not limited to, the following items:
    A. Protection of existing underground or above ground utilities.
    B. Coordination and verification of dimensions and details with existing on-site conditions.
    C. Conditions of the job site, including safety of persons and property during construction.
    D. Slope movement downslope of the proposed retaining wall.

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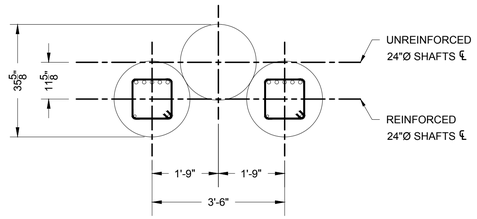
NO	REVISION	DATE

SCALE: AS SHOWN
DATE: 11/13/17
DESIGNED BY: JDH
DRAWN BY: JDH/RLC
CHECKED BY: WTB

AMSTERDAM ROAD
IMPROVEMENTS
CITY OF FORT WRIGHT, KY.

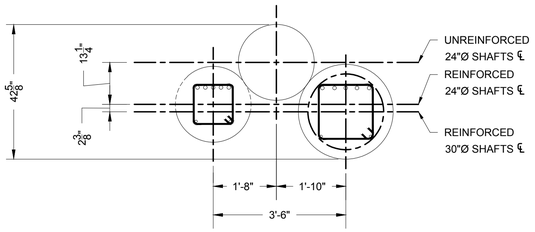
PLUG SHAFT SCHEDULE & GENERAL NOTES

ITEM NO: 6-438
PROJECT NO: 160777
DRAWING NAME: G-10
SHEET: 24 OF: 40



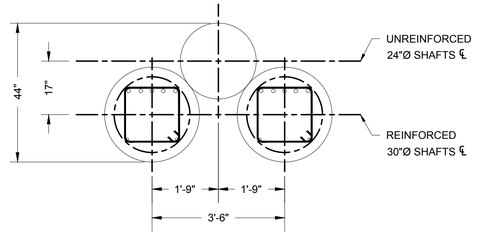
NOTE: CONTINUOUS WALL NOT SHOWN FOR CLARITY (SEE CONTINUOUS WALL DETAILS).

REINFORCED DRILLED SHAFTS
PLAN FOR ADJACENT 24"Ø SHAFTS AT 3.5' O.C.
NOT TO SCALE



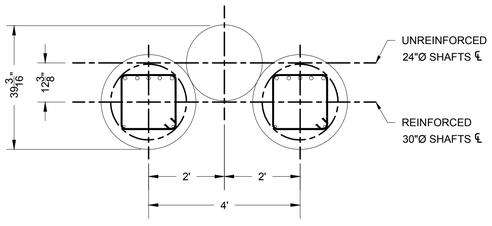
NOTE: CONTINUOUS WALL NOT SHOWN FOR CLARITY (SEE CONTINUOUS WALL DETAILS).

REINFORCED DRILLED SHAFTS
PLAN FOR ADJACENT 24" AND 30"Ø SHAFTS AT 3.5' O.C.
NOT TO SCALE



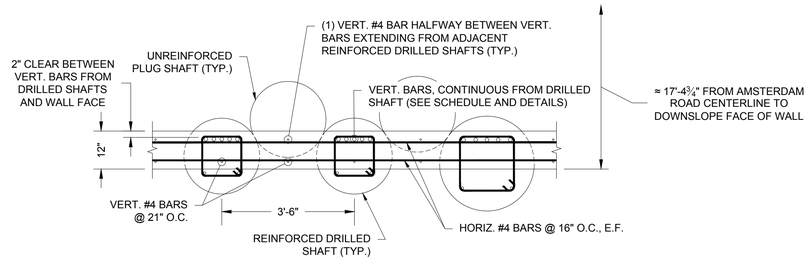
NOTE: CONTINUOUS WALL NOT SHOWN FOR CLARITY (SEE CONTINUOUS WALL DETAILS).

REINFORCED DRILLED SHAFTS
PLAN FOR 30"Ø SHAFTS AT 3.5' O.C.
NOT TO SCALE

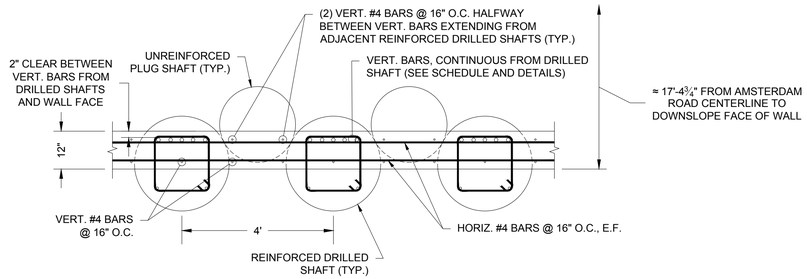


NOTE: CONTINUOUS WALL NOT SHOWN FOR CLARITY (SEE CONTINUOUS WALL DETAILS).

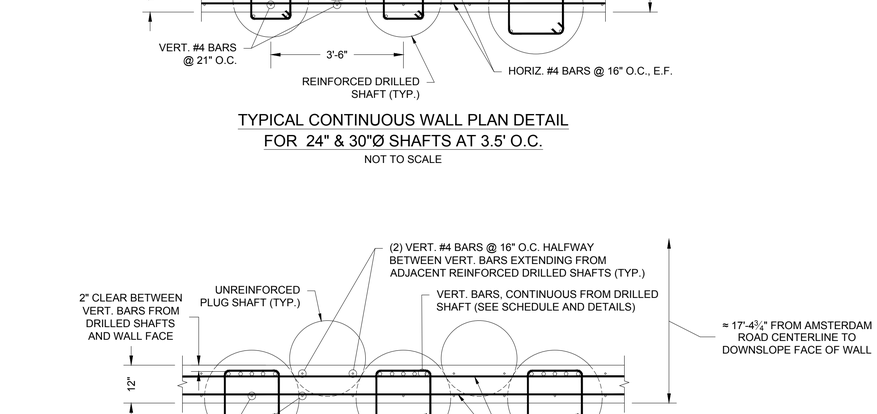
TYPICAL REINFORCED/PLUG DRILLED SHAFTS
PLAN FOR 30"Ø SHAFTS AT 4' O.C.
NOT TO SCALE



TYPICAL CONTINUOUS WALL PLAN DETAIL
FOR 24" & 30"Ø SHAFTS AT 3.5' O.C.
NOT TO SCALE

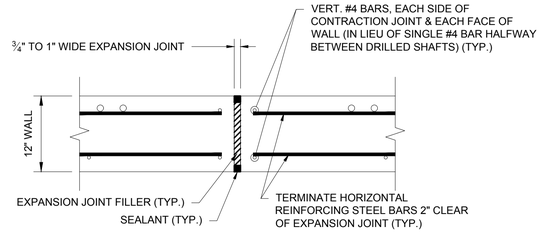


TYPICAL CONTINUOUS WALL PLAN DETAIL
PLAN FOR 30"Ø SHAFTS AT 4' O.C.
NOT TO SCALE



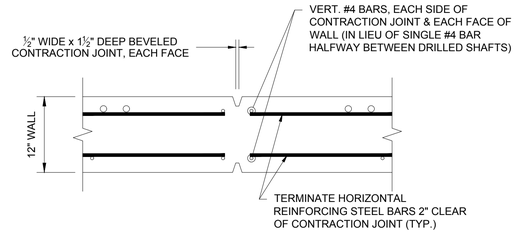
NOTES: GRAVITY DRAIN RIGID PERFORATED PVC PIPE INTO CATCH BASIN STRUCTURE (STM-05A) NEAR STA. 12+84 AT 1' ABOVE INVERT OF CATCH BASIN.
PROVIDE SOLID PVC PIPE FROM PERFORATED PVC PIPE AT DRILLED SHAFT 3, AND SLOPE PIPE TO DRAIN AT MINIMUM 2 PERCENT GRADE TO MANHOLE STRUCTURE (STM-01) NEAR STA. 9+80 AT 1' ABOVE INVERT OF MANHOLE.

TYPICAL CONTINUOUS WALL SECTION DETAIL
NOT TO SCALE



NOTE: PROVIDE EXPANSION JOINTS AT 200' O.C. MAX, HALFWAY BETWEEN ADJACENT DRILLED SHAFTS. EXPANSION JOINT LOCATIONS ARE SHOWN ON THE WALL PROFILE SHEETS.

EXPANSION JOINT DETAIL
NOT TO SCALE



CONTRACTION/CONSTRUCTION
JOINT DETAIL
NOT TO SCALE

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AMSTERDAM ROAD
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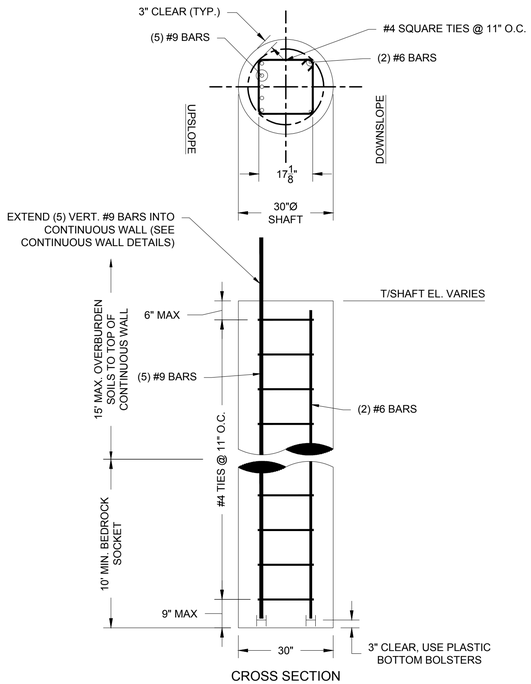
CITY OF FORT WRIGHT, KY.

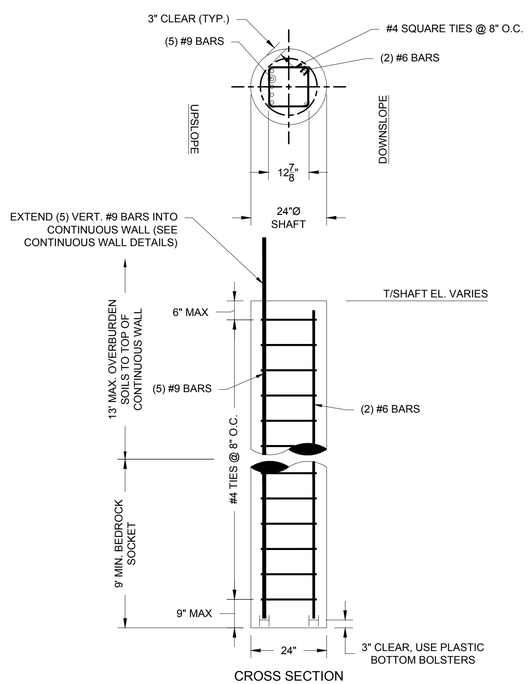
DRILLED SHAFT DETAILS

ITEM NO:
6-438
PROJECT NO:
160777
DRAWING NAME
G-23
SHEET 26 OF 40



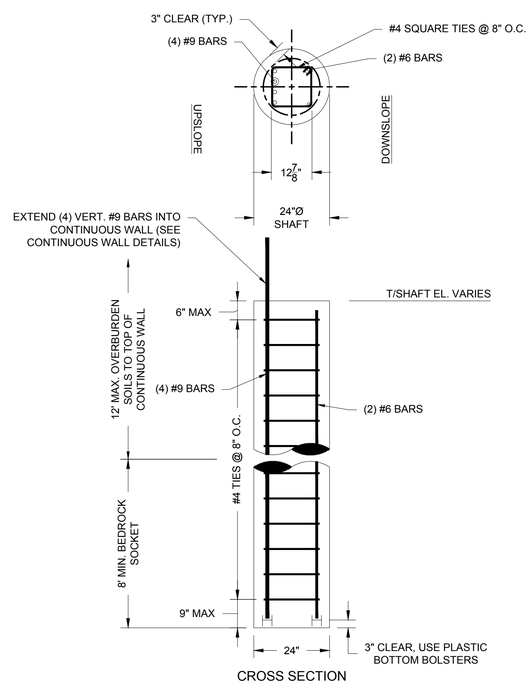
CROSS SECTION

DRILLED SHAFT REINFORCING DETAIL "A"
NOT TO SCALE



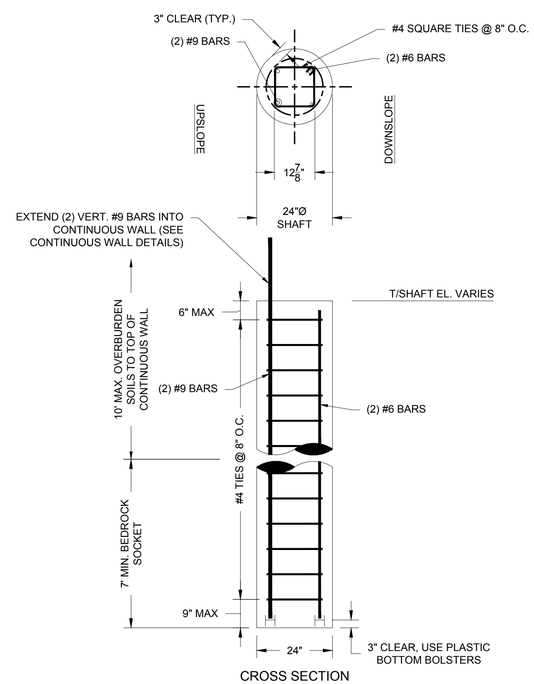
CROSS SECTION

DRILLED SHAFT REINFORCING DETAIL "B"
NOT TO SCALE



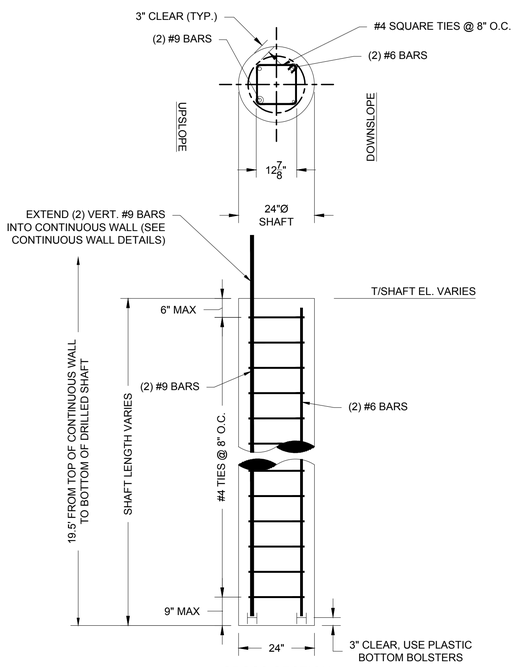
CROSS SECTION

DRILLED SHAFT REINFORCING DETAIL "C"
NOT TO SCALE



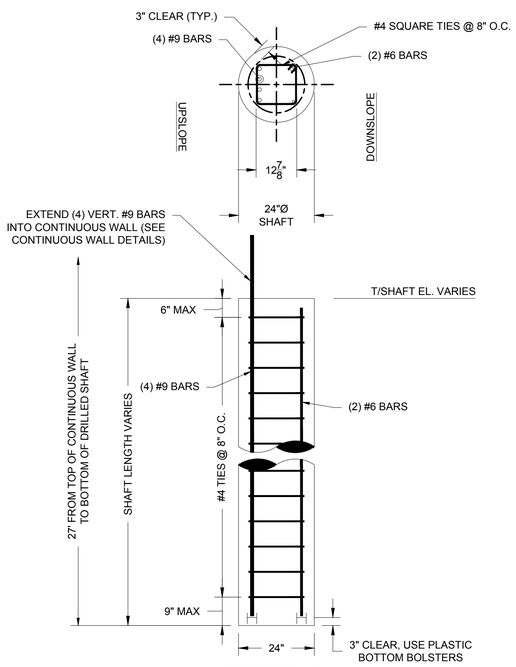
CROSS SECTION

DRILLED SHAFT REINFORCING DETAIL "D"
NOT TO SCALE



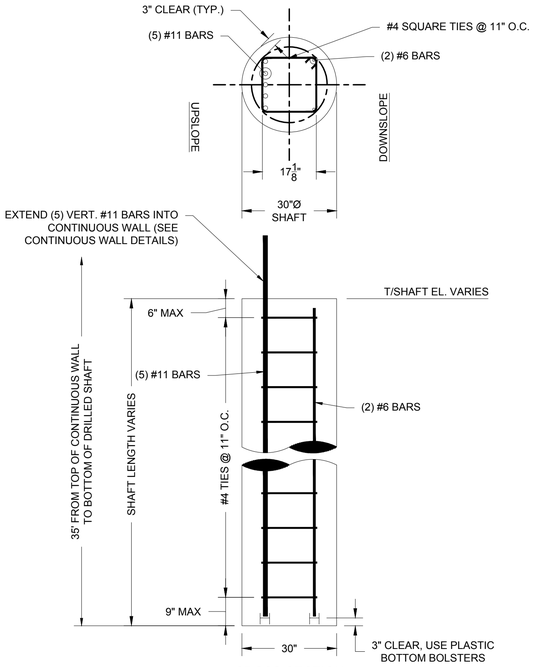
CROSS SECTION

DRILLED SHAFT REINFORCING DETAIL "E"
NOT TO SCALE



CROSS SECTION

DRILLED SHAFT REINFORCING DETAIL "F"
NOT TO SCALE



CROSS SECTION

DRILLED SHAFT REINFORCING DETAIL "G"
NOT TO SCALE

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AMSTERDAM ROAD IMPROVEMENTS
CITY OF FORT WRIGHT, KY.

DRILLED SHAFT DETAILS

ITEM NO: 6-438
PROJECT NO: 160777
DRAWING NAME: G-11
SHEET: 25 OF: 40