GRADING & DRAINAGE NOTES:

1. SITE AREA: 34.84 ACRES
   DISTURBED AREA: 16.3 ACRES
2. CRITICAL SPOT GRADES ARE TO PAVEMENT GRADE UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL CONSTRUCT ALL SIDEWALKS AND CROSSWALKS WITH A 2.0% MAXIMUM CROSS SLOPE AND A 5.0% MAXIMUM RUNNING SLOPE, UNLESS NOTED AS A RAMP. GRADES WITHIN ADA HANDICAP PARKING AREAS NOT TO EXCEED A 2% MAXIMUM SLOPE IN ANY DIRECTION.
4. ALL ROOF DRAIN PIPING SHALL BE PVC UNLESS OTHERWISE NOTED.
5. ALL ROOF DRAIN CLEANOUTS IN PAVED AREAS SHALL HAVE A BRASS CAP SET FLUSH WITH THE PROPOSED GRADE.
6. ALL PIPE LENGTHS SPECIFIED IN THESE PLANS ARE THE HORIZONTAL DISTANCE AND ARE SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL LENGTHS BASED ON PROPOSED PIPE SLOPE. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
7. THIS PROJECT DOES LIE WITHIN A 100 YEAR FLOOD HAZARD ZONE AS DEFINED BY THE F.E.M.A. "FLOOD HAZARD BOUNDARY MAP" COMMUNITY PANEL NUMBER 13089C0011J, DATED 05/16/2013.
8. UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES HAVING UTILITIES WITHIN OR ADJACENT TO THE WORK AREA. THE CONTRACTOR SHALL HAVE THE UTILITIES FIELD LOCATED AND COORDINATE WITH THE UTILITY COMPANIES TO HAVE CONFLICTS RELOCATED WHEN NECESSARY OR ADAPTED FOR TIE-INS.
9. CONTRACTOR TO FIELD VERIFY EXISTING INVERT FOR SANITARY SEWER AND STORM DRAINAGE SERVICE CONNECTIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCY PRIOR TO PROCEEDING.
10. NO GRADED SLOPE SHALL EXCEED 2H:1V
11. ALL WALLS GREATER THAN 30" IN HEIGHT SHALL BE DESIGNED AND PERMITTED BY AN ENGINEER LICENSED IN THE STATE OF GEORGIA.
12. ALL WALLS GREATER THAN 30" IN HEIGHT SHALL HAVE FALL PROTECTION THROUGH FENCING OR HANDRAIL AT A MINIMUM OF 42" TALL. REFERENCE LANDSCAPE PLANS FOR DETAILS.

GRADING LEGEND:

Symbol	Description
950	EXISTING MAJOR CONTOUR
948	EXISTING MINOR CONTOUR
945	PROPOSED MAJOR CONTOUR
944	PROPOSED MINOR CONTOUR
× 945.00	PROPOSED SPOT GRADE
× TG:945.00	PROPOSED TOP GRADE AT WALL
× BG:945.00	PROPOSED BOTTOM GRADE AT WALL
× TS:945.00	PROPOSED TOP OF STAIR GRADE
× BS:945.00	PROPOSED BOTTOM OF STAIR GRADE
× HP:945.00	PROPOSED HIGH POINT GRADE
× LP:945.00	PROPOSED LOW POINT GRADE
× TC:945.00	PROPOSED TOP OF CURB GRADE
× BC:945.00	PROPOSED BOTTOM OF CURB GRADE
	DRAINAGE FLOW ARROW

STORM DRAINAGE LEGEND:

Abbr.	Description
JB	JUNCTION BOX
CI	HOODED GRATE CURB INLET (GDOT 1019A, TYPE E)
GI	GRATE INLET (GDOT 10191A, TYPE A)
SWCB	SINGLE WING CATCH BASIN (GDOT 1033D)
DWCB	DOUBLE WING CATCH BASIN (GDOT 1034D)
YD	YARD DRAIN (NDS CATCH BASIN OR COMPARABLE)
CO	CLEAN OUT
WQ	WATER QUALITY DEVICE
OCS	OUTLET CONTROL STRUCTURE (CAST-IN-PLACE)
TD	TRENCH DRAIN
	PROPOSED ROOF DRAIN PIPE
	PROPOSED STORM PIPE

NORTH

GEORGIA811 Utilitie Protection Center, Inc. Know what's below. Call before you dig.

GRAPHIC SCALE IN FEET
0 20 40 80

PREPARED BY
Kimley»Horn

11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
PHONE (770) 619-4280
WWW.KIMLEY-HORN.COM

PREPARED FOR
HIGH STREET DEVELOPMENT LLC
125 HIGH STREET, HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110
PHONE: (617) 854-6641

No.	ISSUANCE AND REVISION DESCRIPTIONS	DATE	BY

PROJECT
HIGH STREET - PHASE 1
211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND DRIVE, DUNWOODY, GA 30346
LAND LOT 348, 18TH DISTRICT

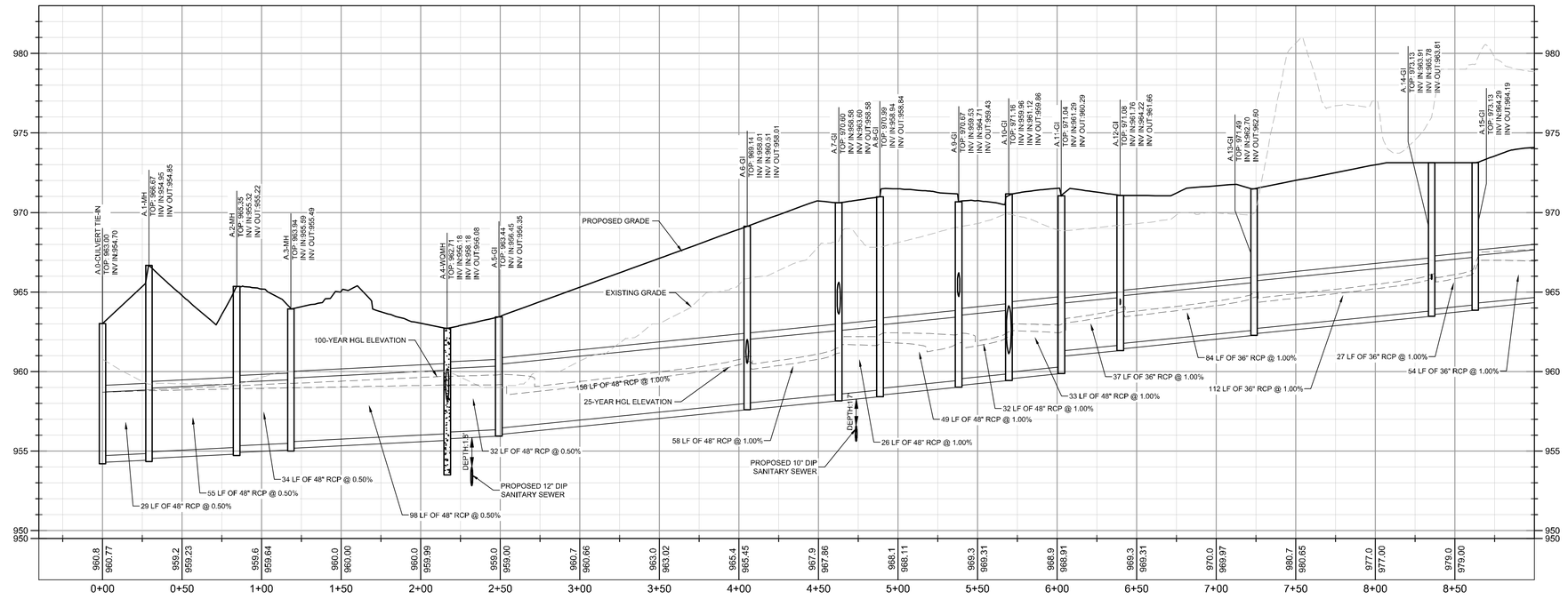
GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE044139 DEREK M. ZITTRAUER 8/16/19

GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

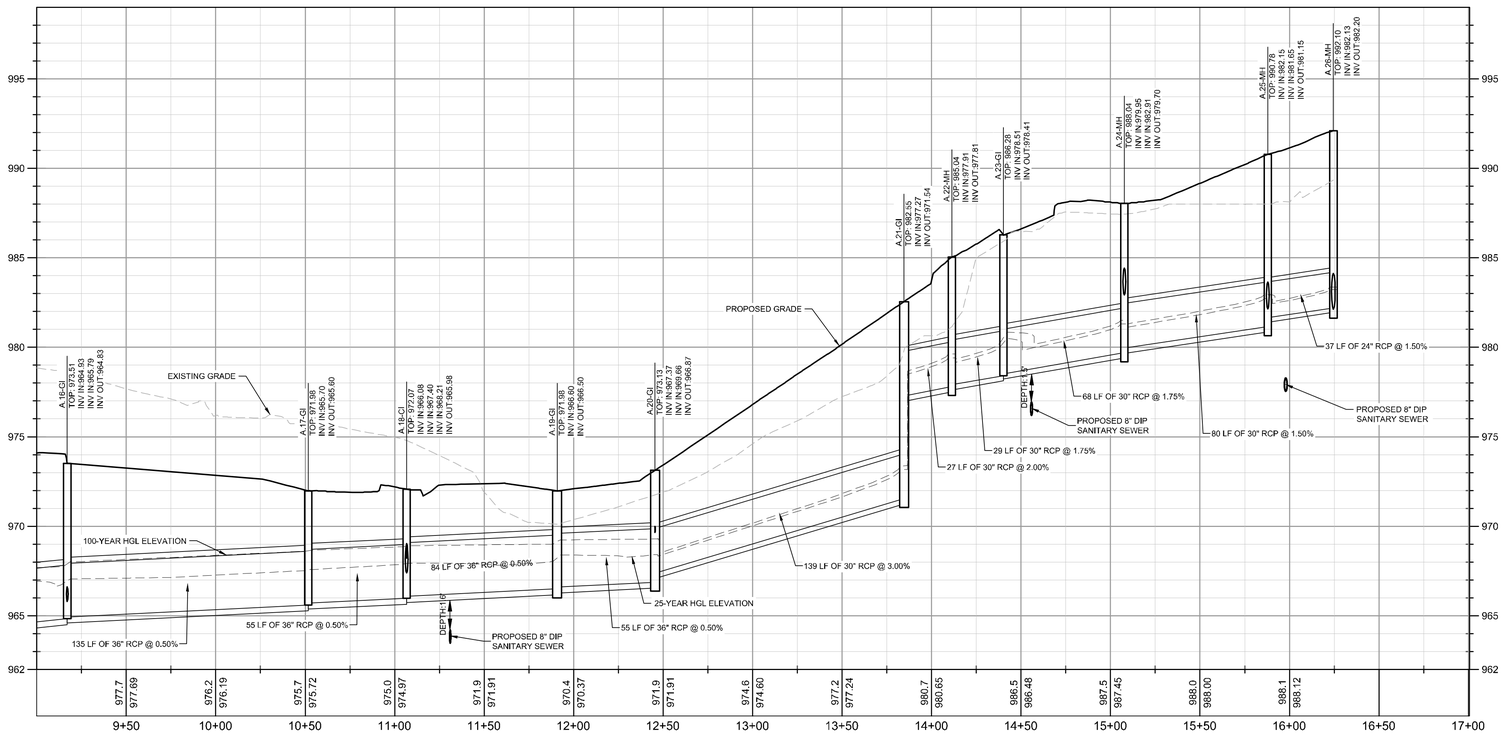
TITLE
DRAINAGE PLAN SOUTH

SHEET NUMBER
C3-12

Drawing name: K:\ALP_PRJ\019473000_GID - High Street\CADD\PlanSheets\Phase 1\C3-10 - DRAINAGE PLAN.dwg C3-12 - DRAINAGE PLAN SOUTH Aug 16, 2019 4:46pm by: derek.zittrauer



PROFILE VIEW
STRM A.0-A.26
1" = 40' HORZ.
1" = 4' VERT.



PROFILE VIEW
STRM A.0-A.26
1" = 40' HORZ.
1" = 4' VERT.

STORM DRAINAGE PROFILE NOTES:

1. ALL PIPE LENGTHS SPECIFIED IN THESE PLANS ARE THE HORIZONTAL DISTANCE AND ARE SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL LENGTHS BASED ON PROPOSED PIPE SLOPE. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO FIELD VERIFY EXISTING INVERT FOR STORM DRAINAGE SERVICE CONNECTIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCY PRIOR TO PROCEEDING.
3. ALL STORM PIPE SHALL HAVE BEDDING PER BEDDING DETAILS IN CONSTRUCTION DETAIL SHEETS.
4. ALL STORM PIPING TO BE RCP UNLESS OTHERWISE NOTED. SEE CHART FOR PIPE CLASS.
5. RIM ELEVATIONS GIVEN ARE APPROXIMATE. CONTRACTOR SHALL REFERENCE GRADING PLAN FOR STRUCTURE THROAT / RIM ELEVATIONS.
6. IF ANY CONFLICTS, DISCREPANCIES, OR ANY OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY AND SHALL NOT COMMENCE FURTHER OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED.
7. ALL STORM JOINTS TO BE WATER TIGHT.

PROFILE LINE LEGEND:

- PROPOSED GRADE LINE
- EXISTING GRADE LINE
- 25-YR HYDRAULIC GRADE LINE
- 100-YR HYDRAULIC GRADE LINE

RCP PIPE CLASSIFICATION CHART:

1-15' CLASS III
15'-20' CLASS IV
20'-30' CLASS V

ALL CONCRETE PIPE SHALL BE A MINIMUM CLASS III WITH 12" MINIMUM COVER. REFERENCE GDOT DETAIL 1030D FOR ADDITIONAL GUIDANCE.

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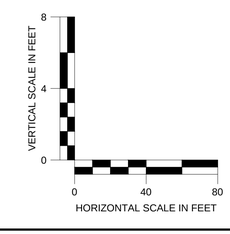


PREPARED BY
Kimley»Horn

11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
PHONE: (770) 410-1853
WWW.KIMLEY-HORN.COM

PREPARED FOR
HIGH STREET DEVELOPMENT LLC
125 HIGH STREET, HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110
PHONE: (617) 854-6641

No.	ISSUANCE AND REVISION DESCRIPTIONS	DATE	BY

PROJECT
HIGH STREET - PHASE 1
211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND DRIVE, DUNWOODY, GA 30346
LAND LOT 348, 18TH DISTRICT

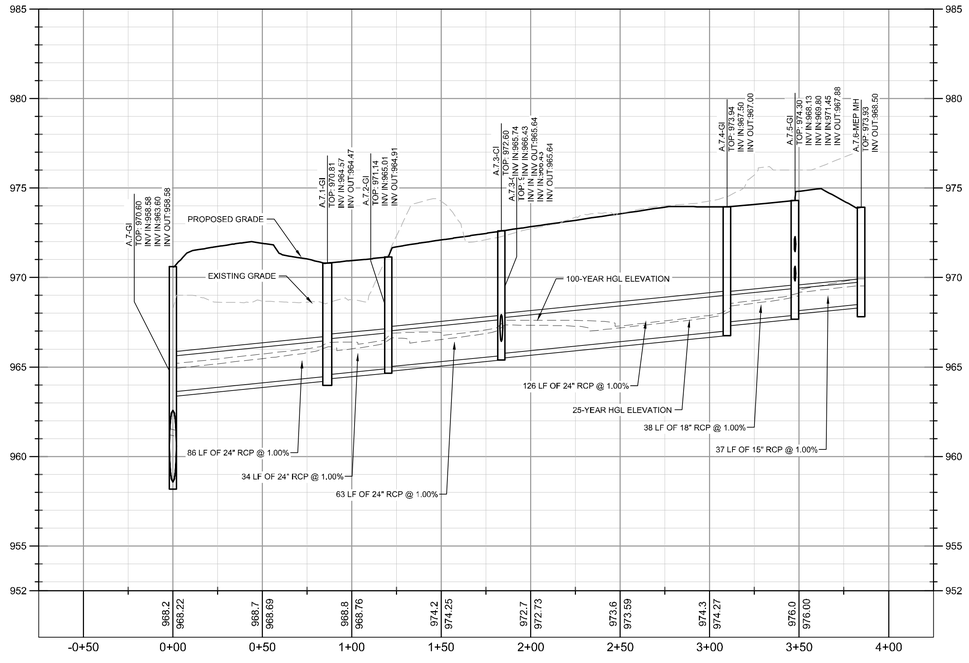
GEORGIA REGISTERED No. PE044139 PROFESSIONAL ENGINEER MAREK M. ZITTRAUER

GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

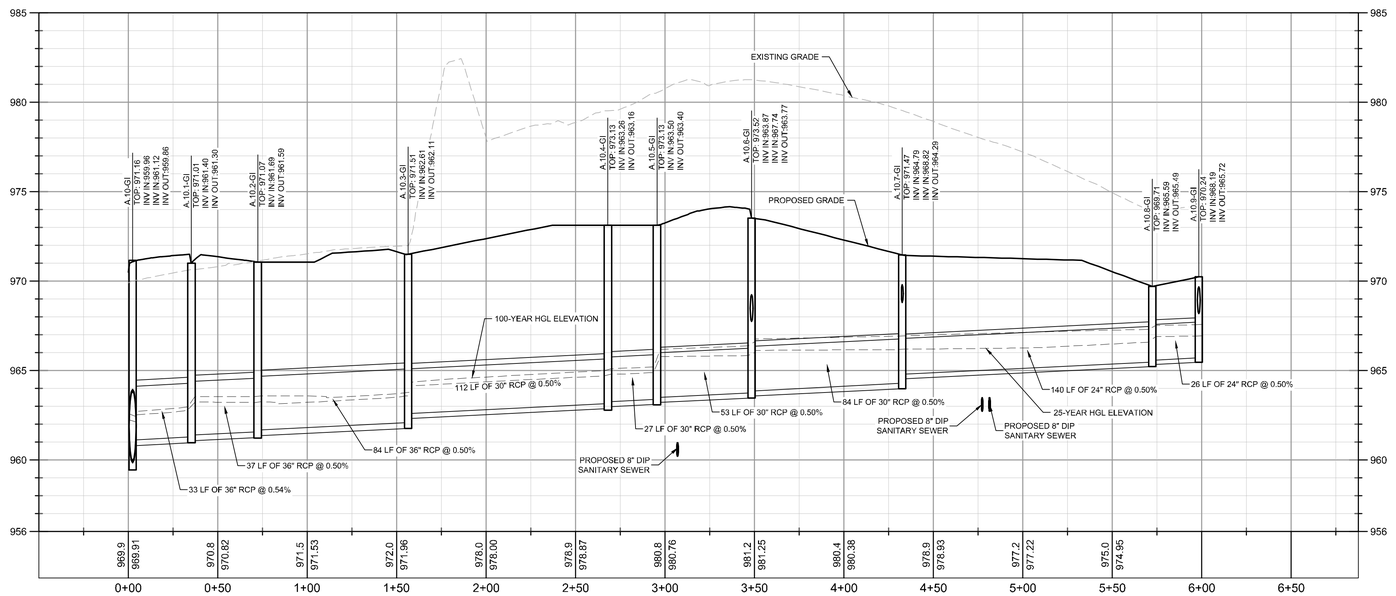
TITLE
STORM SEWER PROFILES

SHEET NUMBER
C3-50

Drawing name: K:\ALP_PRJ\019473000_CID - High Street\CADD\PlanSheets\Phase 1\C3-50 - STORM SEWER PROFILES.dwg C3-50 - STORM SEWER PROFILES Aug 16, 2019 1:59pm by: russell.noah



PROFILE VIEW
STRM A.7-A7.6
1" = 40' HORZ.
1" = 4' VERT.



PROFILE VIEW
STRM A.10-A.10.9
1" = 40' HORZ.
1" = 4' VERT.

STORM DRAINAGE PROFILE NOTES:

1. ALL PIPE LENGTHS SPECIFIED IN THESE PLANS ARE THE HORIZONTAL DISTANCE AND ARE SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL LENGTHS BASED ON PROPOSED PIPE SLOPE. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
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3. ALL STORM PIPE SHALL HAVE BEDDING PER BEDDING DETAILS IN CONSTRUCTION DETAIL SHEETS.
4. ALL STORM PIPING TO BE RCP UNLESS OTHERWISE NOTED. SEE CHART FOR PIPE CLASS.
5. RIM ELEVATIONS GIVEN ARE APPROXIMATE. CONTRACTOR SHALL REFERENCE GRADING PLAN FOR STRUCTURE THROAT / RIM ELEVATIONS.
6. IF ANY CONFLICTS, DISCREPANCIES, OR ANY OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY AND SHALL NOT COMMENCE FURTHER OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED.
7. ALL STORM JOINTS TO BE WATER TIGHT.

PROFILE LINE LEGEND:

- PROPOSED GRADE LINE
- EXISTING GRADE LINE
- 25-YR HYDRAULIC GRADE LINE
- 100-YR HYDRAULIC GRADE LINE

RCP PIPE CLASSIFICATION CHART:

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ALL CONCRETE PIPE SHALL BE A MINIMUM CLASS III WITH 12" MINIMUM COVER. REFERENCE GDOT DETAIL 1030D FOR ADDITIONAL GUIDANCE.

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VERTICAL SCALE IN FEET: 0, 4, 8
HORIZONTAL SCALE IN FEET: 0, 40, 80

PREPARED BY
Kimley»Horn
© 2019 KIMLEY-HORN AND ASSOCIATES, INC.
11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
PHONE: (770) 569-4200
WWW.KIMLEY-HORN.COM

PREPARED FOR
HIGH STREET DEVELOPMENT LLC
125 HIGH STREET, HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110
PHONE: (617) 854-6641

NO.	ISSUANCE AND REVISION DESCRIPTIONS	DATE	BY

PROJECT
HIGH STREET - PHASE 1
211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND DRIVE, DUNWOODY, GA 30346
LAND LOT 348, 18TH DISTRICT

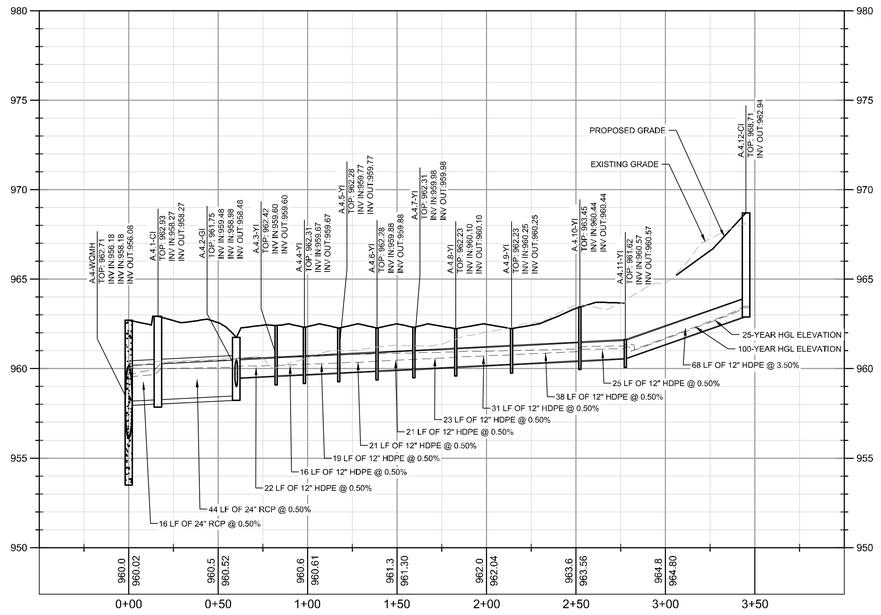
GEORGIA REGISTERED No. PE044139 PROFESSIONAL ENGINEER MAREK M. ZITTRAUER

GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

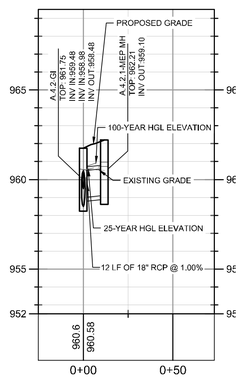
TITLE
STORM SEWER PROFILES

SHEET NUMBER
C3-51

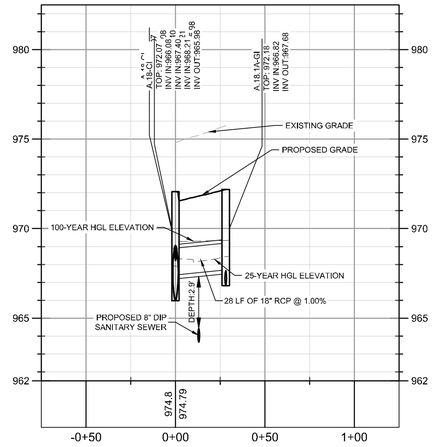
Drawing name: K:\ALP_PRJ\019473000_CID - High Street\CADD\PlanSheets\Phase 1\C3-50 - STORM SEWER PROFILES.dwg C3-51 - STORM SEWER PROFILES Aug 16, 2019 1:59pm by: russell.noah



PROFILE VIEW
STRM A.4-A.4.12
1" = 40' HORZ.
1" = 4' VERT.



PROFILE VIEW
STRM A.4.2-A.4.2.1
1" = 40' HORZ.
1" = 4' VERT.



PROFILE VIEW
STRM A.18-A.18.1A
1" = 40' HORZ.
1" = 4' VERT.

STORM DRAINAGE PROFILE NOTES:

1. ALL PIPE LENGTHS SPECIFIED IN THESE PLANS ARE THE HORIZONTAL DISTANCE AND ARE SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL LENGTHS BASED ON PROPOSED PIPE SLOPE. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
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4. ALL STORM PIPING TO BE RCP UNLESS OTHERWISE NOTED. SEE CHART FOR PIPE CLASS.
5. RIM ELEVATIONS GIVEN ARE APPROXIMATE. CONTRACTOR SHALL REFERENCE GRADING PLAN FOR STRUCTURE THROAT / RIM ELEVATIONS.
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7. ALL STORM JOINTS TO BE WATER TIGHT.

PROFILE LINE LEGEND:

- PROPOSED GRADE LINE
- EXISTING GRADE LINE
- 25-YR HYDRAULIC GRADE LINE
- 100-YR HYDRAULIC GRADE LINE

RCP PIPE CLASSIFICATION CHART:

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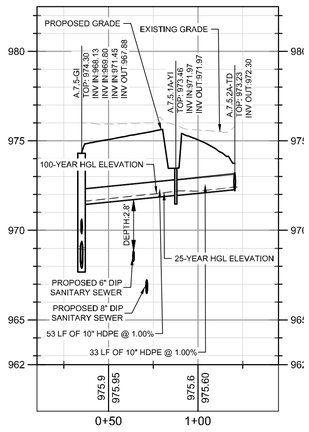
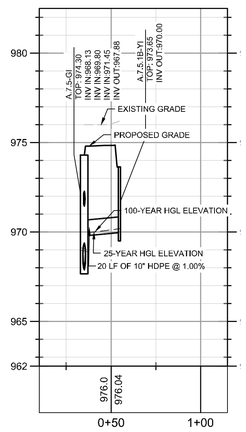
15'-20' CLASS IV
20'-30' CLASS V

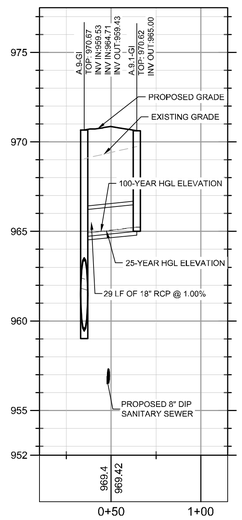
ALL CONCRETE PIPE SHALL BE A MINIMUM CLASS III WITH 12" MINIMUM COVER. REFERENCE GDOT DETAIL 1030D FOR ADDITIONAL GUIDANCE.



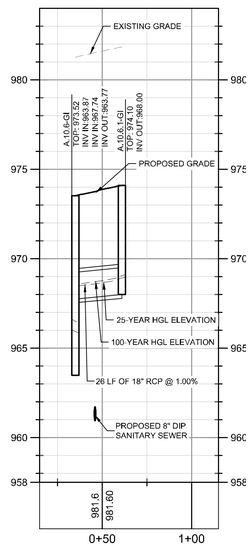
PROFILE VIEW
STRM A.7.5-A.7.5.2A
1" = 40' HORZ.
1" = 4' VERT.



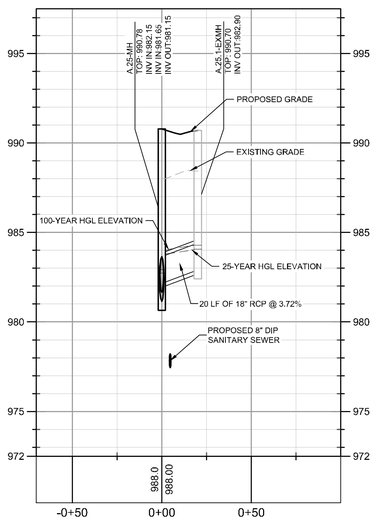
PROFILE VIEW
STRM A.7.5-A.7.5.1B
1" = 40' HORZ.
1" = 4' VERT.



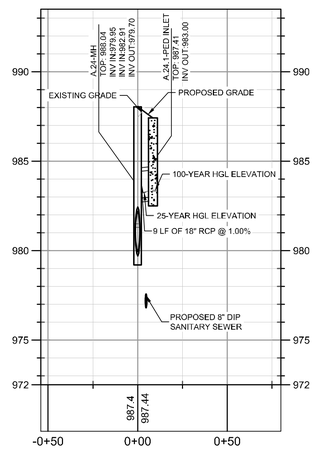
PROFILE VIEW
STRM A.9-A.9.1
1" = 40' HORZ.
1" = 4' VERT.



PROFILE VIEW
STRM A10.6-A10.6.1
1" = 40' HORZ.
1" = 4' VERT.



PROFILE VIEW
STRM A.25-A.25.1
1" = 40' HORZ.
1" = 4' VERT.



PROFILE VIEW
STRM A.24-A.24.1
1" = 40' HORZ.
1" = 4' VERT.

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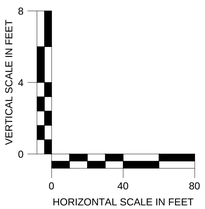

PREPARED BY
Kimley»Horn

11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
PHONE: (770) 569-4200
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PREPARED FOR
HIGH STREET DEVELOPMENT LLC
125 HIGH STREET, HIGH STREET TOWER, 27TH FLOOR
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PHONE: (617) 854-6641

No.	ISSUANCE AND REVISION DESCRIPTIONS	DATE	BY

PROJECT
HIGH STREET - PHASE 1
211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND DRIVE, ATLANTA, GA 30346
LAND LOT 348, 18TH DISTRICT

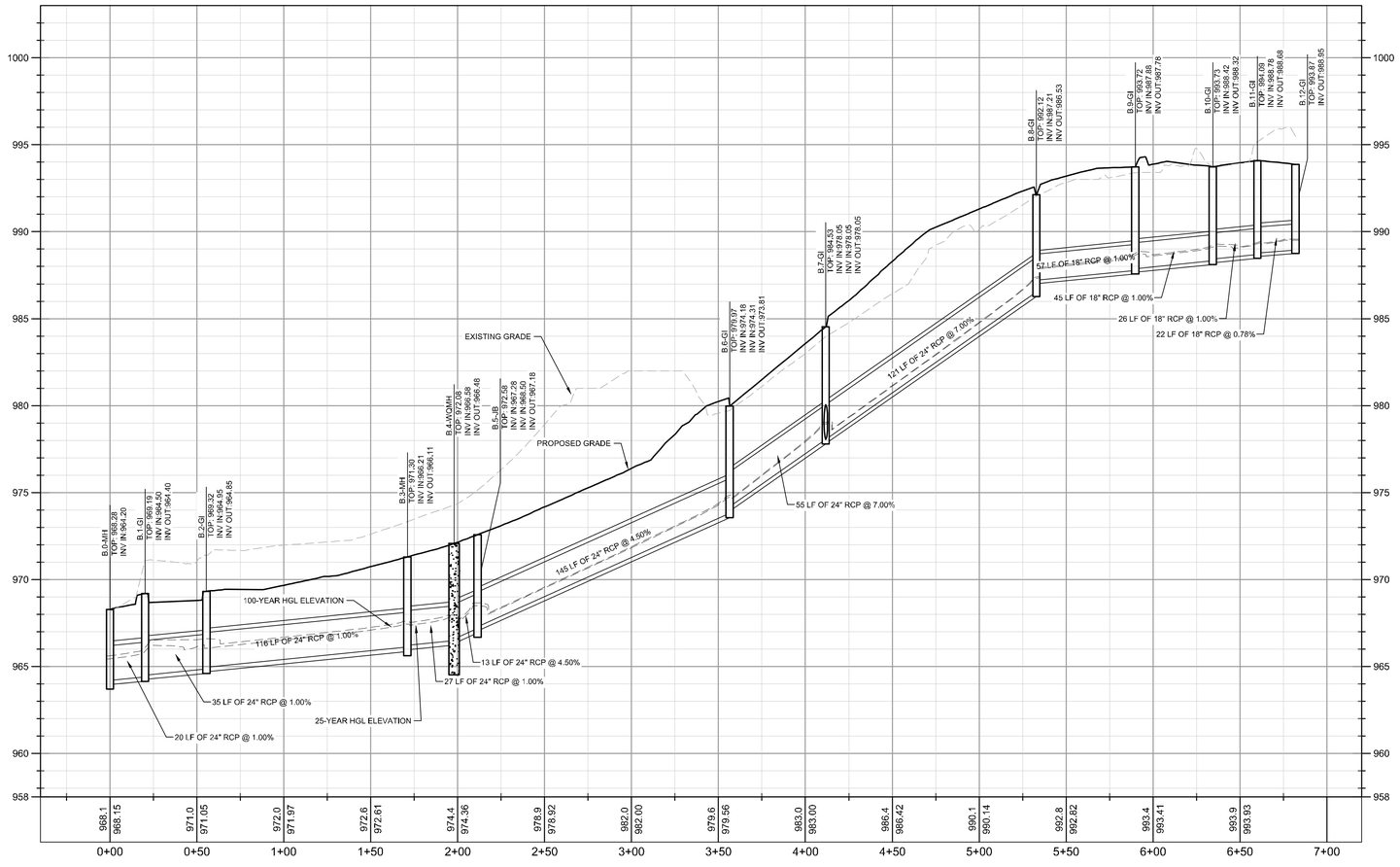
GEORGIA REGISTERED No. PE0041139 PROFESSIONAL ENGINEER KIRK M. ZITTRAUER

GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

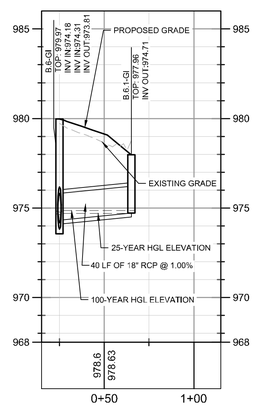
TITLE
STORM SEWER PROFILES

SHEET NUMBER
C3-52

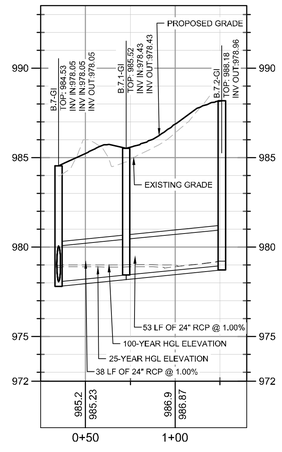
Drawing name: K:\ALP_PRJ\019473000_GID - High Street\CADD\PlanSheets\Phase 1\C3-50 - STORM SEWER PROFILES.dwg C3-52 - STORM SEWER PROFILES Aug 16, 2019 1:59pm by: russell.noah



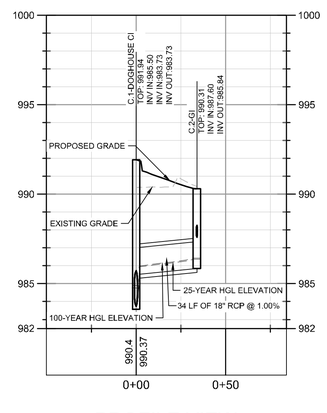
PROFILE VIEW
STRM B.0-B.12
1" = 40' HORZ.
1" = 4' VERT.



PROFILE VIEW
STRM B.6-B.6.1
1" = 40' HORZ.
1" = 4' VERT.



PROFILE VIEW
STRM B.7-B.7.2
1" = 40' HORZ.
1" = 4' VERT.



PROFILE VIEW
STRM C.1-C.2
1" = 40' HORZ.
1" = 4' VERT.

STORM DRAINAGE PROFILE NOTES:

1. ALL PIPE LENGTHS SPECIFIED IN THESE PLANS ARE THE HORIZONTAL DISTANCE AND ARE SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL LENGTHS BASED ON PROPOSED PIPE SLOPE. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
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PROFILE LINE LEGEND:

- PROPOSED GRADE LINE
- EXISTING GRADE LINE
- 25-YR HYDRAULIC GRADE LINE
- 100-YR HYDRAULIC GRADE LINE

RCP PIPE CLASSIFICATION CHART:

1-15' CLASS III
15'-20' CLASS IV
20'-30' CLASS V

ALL CONCRETE PIPE SHALL BE A MINIMUM CLASS III WITH 12" MINIMUM COVER. REFERENCE GDOT DETAIL 1030D FOR ADDITIONAL GUIDANCE.

GEORGIA811.
Utilities Protection Center, Inc.
Know what's below.
Call before you dig.

VERTICAL SCALE IN FEET: 8, 4, 0
HORIZONTAL SCALE IN FEET: 0, 40, 80

PREPARED BY
Kimley»Horn

11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
PHONE: (770) 619-4500
WWW.KIMLEY-HORN.COM

PREPARED FOR
HIGH STREET DEVELOPMENT LLC
125 HIGH STREET, HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110
PHONE: (617) 854-6641

NO.	ISSUANCE AND REVISION DESCRIPTIONS	DATE	BY

PROJECT
HIGH STREET - PHASE 1
211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND DRIVE, DUNWOODY, GA 30346
LAND LOT 348, 18TH DISTRICT

GEORGIA REGISTERED No. PE044139 PROFESSIONAL ENGINEER KIRK M. ZITTRAUER

GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

TITLE
STORM SEWER PROFILES

SHEET NUMBER
C3-53

Drawing name: K:\ALP_PRJ\019473000_GID - High Street\CADD\PlanSheets\Phase 1\C3-50 - STORM SEWER PROFILES.dwg C3-53 - STORM SEWER PROFILES Aug 16, 2019 4:56pm by: derek.zittrauer

Pipe Label	Start Structure	End Structure	Invert (Upstream) (ft)	Invert (Downstream) (ft)	Pipe Diameter (in)	Length (ft)	Slope (ft/ft)	HGL (Upstream) (ft)	HGL (Downstream) (ft)	Rain (in/hr)	Upstream Inlet Drainage Area (acres)	Inlet Tc	Total Flow (ft^3/s)	Capacity (Full Flow) (ft^3/s)	Depth (ft)
A.10.10-MEP CO TO A.10.9-GI	A.10.10-MEP CO	A.10.9-GI	968.33	968.19	18	11.1	0.012	969.46	969.2	9.41	0.941	5	8.48	11.74	1.01
A.10.1-GI TO A.10-GI	A.10.1-GI	A.10-GI	961.3	961.12	36	32.9	0.005	962.8	962.53	9.06	0.03	5	21.83	49.33	1.41
A.10.2-GI TO A.10.1-GI	A.10.2-GI	A.10.1-GI	961.59	961.4	36	37	0.005	963.22	963.24	9.08	0.132	5	21.44	47.77	1.84
A.10.3-GI TO A.10.2-GI	A.10.3-GI	A.10.2-GI	962.11	961.69	36	84.1	0.005	963.58	963.26	9.128	0.092	5	20.93	47.14	1.57
A.10.4-GI TO A.10.3-GI	A.10.4-GI	A.10.3-GI	963.16	962.61	30	111.6	0.005	964.71	964.14	9.192	0.052	5	20.33	28.79	1.53
A.10.5-GI TO A.10.4-GI	A.10.5-GI	A.10.4-GI	963.4	963.26	30	27.5	0.005	964.9	964.81	9.207	0.091	5	19.66	29.29	1.55
A.10.6.1-GI TO A.10.6-GI	A.10.6.1-GI	A.10.6-GI	968	967.74	18	26	0.01	968.87	968.49	9.4	0.005	5	5.03	10.5	0.74
A.10.6.2-MH TO A.10.6.1-GI	A.10.6.2-MH	A.10.6.1-GI	968.4	968	18	20	0.02	969.26	968.99	9.41	0.722	5	5	14.82	0.98
A.10.6-GI TO A.10.5-GI	A.10.6-GI	A.10.5-GI	963.77	963.5	30	52.9	0.005	965.84	965.78	9.238	0.021	5	19.23	29.31	2.28
A.10.7-GI TO A.10.6-GI	A.10.7-GI	A.10.6-GI	964.29	963.87	30	84.2	0.005	966.18	966.13	9.29	0.105	5	14.18	28.97	2.26
A.10.8-GI TO A.10.7-GI	A.10.8-GI	A.10.7-GI	965.49	964.79	24	139.7	0.005	966.6	966.2	9.386	0.185	5	9.49	16	1.41
A.10.9-GI TO A.10.8-GI	A.10.9-GI	A.10.8-GI	965.72	965.59	24	26	0.005	966.93	966.91	9.404	0.008	5	8.52	16	1.04
A.10-GI TO A.9-GI	A.10-GI	A.9-GI	959.86	959.53	48	32.1	0.01	962.13	961.84	6.731	0.094	5	57.03	145.64	2.31
A.11-GI TO A.10-GI	A.11-GI	A.10-GI	960.29	959.96	48	33.1	0.01	962.43	962.57	6.744	0.02	5	39.71	143.42	2.61
A.12.1-CO A.12-GI	A.12.1-CO	A.12-GI	964.26	964.22	4	4.1	0.01	964.65	964.52	9.41	0.035	5	0.31	0.19	0.3
A.12-GI TO A.11-GI	A.12-GI	A.11-GI	961.66	961.29	36	37	0.01	963.7	963.05	6.757	0.199	5	39.39	66.7	1.76
A.13-GI TO A.12-GI	A.13-GI	A.12-GI	962.6	961.76	36	84.1	0.01	964.63	963.8	6.789	0.104	5	38.76	66.67	2.04
A.14-GI TO A.13-GI	A.14-GI	A.13-GI	963.81	962.7	36	111.6	0.01	965.83	964.36	6.83	0.078	5	38.37	66.5	1.66
A.15-GI TO A.14-GI	A.15-GI	A.14-GI	964.19	963.91	36	27.5	0.01	966.17	965.91	6.841	0.091	5	37.17	67.34	2
A.16-GI TO A.15-GI	A.16-GI	A.15-GI	964.83	964.29	36	54.2	0.01	966.81	967	6.861	0.018	5	36.92	66.6	2.71
A.17-GI TO A.16-GI	A.17-GI	A.16-GI	965.6	964.93	36	134.6	0.005	967.52	967.06	6.928	0.191	5	34.89	47.05	2.13
A.18.1-GI TO A.18-CI	A.18.1A-GI	A.18-CI	967.68	967.4	18	28.1	0.01	968.42	968.32	9.402	0.012	5	3.75	10.49	1.8
A.18.2-MEP CO TO A.18.1-GI	A.18.2A-MEP CO	A.18.1A-GI	967	966.82	10	14.5	0.012	968.86	968.46	9.41	0.404	5	3.64	2.45	1.17
A.18-CI TO A.17-GI	A.18-CI	A.17-GI	965.98	965.7	36	55.1	0.005	967.88	967.58	6.956	0.119	5	34.22	47.56	1.88
A.19-GI TO A.18-CI	A.19-GI	A.18-CI	966.5	966.08	36	84.1	0.005	968.04	967.94	7.002	0.083	5	22.93	47.13	1.88
A.1-MH TO A.0-CULVERT TIE-IN	A.1-MH	A.0	954.85	954.7	48	29.2	0.005	958.79	958.7	6.537 (N/A)		0	81.81	101.56	4
A.20-GI TO A.19-GI	A.20-GI	A.19-GI	966.87	966.6	36	54.7	0.005	968.4	968.39	7.033	0.096	6	22.66	46.86	1.79
A.21-GI TO A.20-GI	A.21-GI	A.20-GI	971.54	967.37	30	139.4	0.03	973.14	968.33	7.072	0.03	5	22.21	70.93	0.96
A.22-MH TO A.21-GI	A.22-MH	A.21-GI	977.81	977.27	30	26.7	0.02	979.41	978.49	7.081 (N/A)		0	22.17	58.31	1.22
A.23-GI TO A.22-MH	A.23-GI	A.22-MH	978.41	977.91	30	28.8	0.017	980.01	979.16	7.091	0.021	5	22.2	54	1.25
A.24.1-DI TO A.24-MH	A.24.1-GI	A.24-MH	983	982.92	18	8.5	0.01	983.33	983.2	9.191	0.132	6	0.8	10.5	0.29
A.24-MH TO A.23-GI	A.24-MH	A.23-GI	979.7	978.51	30	67.6	0.018	981.3	980.49	7.115 (N/A)		0	22.17	54.41	1.98
A.25.1-EXMH TO A.25-MH	A.25.1-EXMH	A.25-MH	982.9	982.7	18	20.1	0.01	984.08	983.8	9.41	1.021	5	9.2	10.5	1.1
A.25-MH TO A.24-MH	A.25-MH	A.24-MH	981.15	979.95	30	80.1	0.015	982.73	981.13	7.144	0.943	5	21.64	50.19	1.18
A.26-MH TO A.25-MH	A.26-MH	A.25-MH	982.2	981.65	24	36.7	0.015	983.22	982.73	7.162 (N/A)		0	8.22	27.7	1.08
A.27-EX MH TO A.26-MH	A.27-EX MH	C.1-DOGHOUSE	988.7	983.73	24	973	0.005	990.04	984.78	8.316	1.525	10	6.9	8.76	1.05
A.2-MH TO A.1-MH	A.2-MH	A.1-MH	955.22	954.95	48	55.2	0.005	958.91	958.79	6.56 (N/A)		0	82.09	101.56	3.84
A.3-MH TO A.2-MH	A.3-MH	A.2-MH	955.49	955.32	48	34.1	0.005	958.98	958.91	6.574 (N/A)		0	82.26	101.56	3.59
A.4.10-YI TO A.4.9-YI	A.4.10-YI	A.4.9-YI	960.44	960.26	12	38.3	0.005	960.96	960.79	9.344	0.003	5	1.31	2.48	0.53
A.4.11-YI TO A.4.10-YI	A.4.11-YI	A.4.10-YI	960.57	960.45	12	25.3	0.005	961.12	961.08	9.372	0.04	5	1.31	2.52	0.64
A.4.12-CI TO A.4.11-YI	A.4.12-CI	A.4.11-YI	962.94	960.57	12	67.6	0.035	963.41	961.23	9.41	0.094	5	1.23	6.67	0.66
A.4.1-CI TO A.4-WQMH	A.4.1-CI	A.4-WQMH	958.27	958.18	24	16.3	0.005	959.68	959.53	8.972	0.386	7	14.11	16.57	1.35
A.4.2.1-MEP MH TO A.4.2-GI	A.4.2.1-MEP MH	A.4.2-GI	959.5	959.38	18	11.7	0.01	960.73	960.58	9.41	1.129	5	10.17	10.5	1.19
A.4.2-GI TO A.4.1-CI	A.4.2-GI	A.4.1-CI	958.48	958.27	24	43.8	0.005	960.08	960	9.13	0.073	5	11.58	15.66	1.73
A.4.3-YI TO A.4.2-GI	A.4.3-YI	A.4.2-GI	959.6	959.48	12	22.2	0.005	960.17	960.14	9.154	0.002	5	1.39	2.59	0.66
A.4.4-YI TO A.4.3-YI	A.4.4-YI	A.4.3-YI	959.67	959.6	12	15.8	0.005	960.23	960.19	9.172	0.003	5	1.39	2.42	0.59
A.4.5-YI TO A.4.4-YI	A.4.5-YI	A.4.4-YI	959.77	959.68	12	19.3	0.005	960.31	960.25	9.193	0.003	5	1.39	2.52	0.57
A.4.6-YI TO A.4.5-YI	A.4.6-YI	A.4.5-YI	959.88	959.77	12	21.5	0.005	960.41	960.33	9.217	0.003	5	1.38	2.52	0.55
A.4.7-YI TO A.4.6-YI	A.4.7-YI	A.4.6-YI	959.98	959.88	12	20.5	0.005	960.51	960.43	9.24	0.005	5	1.38	2.52	0.55
A.4.8-YI TO A.4.7-YI	A.4.8-YI	A.4.7-YI	960.1	959.98	12	23.4	0.005	960.63	960.53	9.266	0.013	5	1.37	2.52	0.55
A.4.9-YI TO A.4.8-YI	A.4.9-YI	A.4.8-YI	960.25	960.1	12	31.1	0.005	960.78	960.65	9.301	0.022	5	1.35	2.48	0.55
A.4-WQMH TO A.3-MH	A.4-WQMH	A.3-MH	956.08	955.59	48	98.3	0.005	959.15	958.98	6.614 (N/A)		0	82.76	101	3.38
A.5-GI TO A.4-WQMH	A.5-GI	A.4-WQMH	956.35	956.18	48	32.4	0.005	959.15	959.15	6.627	0.04	5	72.51	103.26	2.97
A.6.1-GI TO A.6-GI	A.6.1-GI	A.6-GI	960.77	960.51	18	26	0.01	961.45	961.09	9.388	0.018	5	3.22	10.5	0.58
A.6.2-MEP MH TO A.6.1-GI	A.6.2-MEP MH	A.6.1-GI	961.34	961.02	15	31.7	0.01	962.05	961.63	9.41	0.344	5	3.1	6.46	0.61
A.6-GI TO A.5-GI	A.6-GI	A.5-GI	958.01	956.45	48	156.1	0.01	960.59	959.19	6.676	0.025	5	72.78	143.63	2.74
A.7.1-YI TO A.7-GI	A.7.1-GI	A.7-GI	964.47	963.6	24	84.8	0.01	965.99	964.92	9.138	0.122	5	17.71	22.91	1.32
A.7.2-GI TO A.7.1-YI	A.7.2-GI	A.7.1-GI	964.91	964.57	24	35.5	0.01	966.35	966.14	9.155	0.201	5	16.04	22.14	1.57
A.7.3.1-MEP MH-A.7.3-CI	A.7.3.1	A.7.3-CI	967.07	966.43	18	64	0.01	968.09	967.32	9.41	0.77	5	6.94	10.5	0.89
A.7.3-CI TO A.7.2-GI	A.7.3-CI	A.7.2-GI	965.64	965.01	24	63.2	0.01	967.05	966.63	9.184	0.161	5	15.31	22.58	1.62
A.7.4-GI TO A.7.3-CI	A.7.4-GI	A.7.3-CI	967	965.74	24	126	0.01	967.96	967.35	9.256	0.04	5	7.25	22.62	1.61
A.7.5.1A-YI TO A.7.5-GI	A.7.5.1A-YI	A.7.5-GI	971.97	971.45	12	52.6	0.01	972.19	971.62	9.346	0.042	5	0.27	3.86	0.18
A.7.5.1B-GI TO A.7.5-GI	A.7.5.1B-YI	A.7.5-GI	970	969.81	10	19.6	0.01	970.18	969.96	9.41	0.031	5	0.17	2.19	0.16
A.7.5.2A-YI TO A.7.5.1A-YI	A.7.5.2A	A.7.5.1A-YI	972.3	971.97	12	32.9	0.01	972.41	972.2	9.41	0.015	5	0.07	3.86	0.23
A.7.5-GI TO A.7.4-GI	A.7.5-GI	A.7.4-GI	967.88	967.5	18	38	0.01	968.9	968.4	9.278	0.019	5	6.99	10.5	0.9
A.7.6-MEP MH TO A.7.5-GI	A.7.6-MEP MH	A.7.5-GI	968.5	968.13	15	37	0.01	969.54	969.16	9.41	0.724	5	6.52	6.46	1.03
A.7-GI TO A.6-GI	A.7-GI	A.6-GI	958.58	958.01	48	57.5	0.01	961.12	960.63	6.695	0.054	5	70.51	143.18	2.62
A.8-GI TO A.7-GI	A.8-GI	A.7-GI	958.84	958.58	48	26	0.01	961.63	961.7	6.704	0.006	5	57.37	143.63	3.12
A.9.1-GI TO A.9-GI	A.9.1-GI	A.9-GI	965	964.71	18	29.2	0.01	965.23	964.91	9.41	0.069	5	0.39	10.5	0.2
A.9-GI TO A.8-GI	A.9-GI	A.8-GI	959.43	958.94	48	49.4	0.01	961.71	961.83	6.72	0.065	5	57.48	143.01	2.89
B.10-GI TO B.9-GI	B.10-GI	B.9-GI	988.32	987.88	18	44.6	0.01	988.98	988.66	9.37	0.168	5	3.02	10.43	0.78
B.11-GI TO B.10-GI	B.11-GI	B.10-GI	988.68	988.43	18	25.6	0.01	989.16	989.09	9.391	0.003	5	1.62	10.5	0.67
B.12-GI TO B.11-GI	B.12-GI	B.11-GI	988.95	988.78	18	17	0.01	989.43	989.28	9.41	0.206	5	1.61	10.42	0.5
B.1-GI TO B.0-MH	B.1-GI	B.0	964.42	964.1	24	31.9	0.01	965.72	965.22	7.821	0.025	5	13	22.58	1.25
B.2-GI TO B.1-GI	B.2-GI	B.1-GI	964.83	964.52	24	30.9	0.01	966.08	966.13	7.836	0.014	5	12.07	22.66	1.73
B.3-MH TO B.2-GI	B.3-MH	B.2-GI	966.11	964.93	24	118.1	0.01	967.35	965.96	7.895 (N/A)		0	11.89	22.61	1.43
B.4-WQMH TO B.3-MH	B.4-WQMH	B.3-MH	966.48	966.21	24	26.9	0.01	967.72	967.28	7.909 (N/A)		0	11.91	22.66	1.07
B.5.1-GI TO B.5-GI	B.6.1-GI	B.6-GI	973.83	973.43	18	40.1	0.01	974.69	974.69	8.972	0.045	7	0.23	10.5	0.88
B.5-JB TO B.4-WQMH	B.5-JB	B.4-WQMH	967.18	966.58	24	13.5	0.045	968.42	967.44	7.912	0.941	5	11.91	47.76	1.24
B.6.1-GI TO B.6-GI	B.7.1-GI	B.7-GI	978.43	978.05	24	37.7	0.01	978.88	978.89	9.34	0.026	5	0.74	22.62	0.84
B.6.2-GI TO B.6.1-GI	B.7.2-GI	B.7.1-GI	978.96	978.43	24	53.4	0.01	979.19	978.9	9.41	0.105	5	0.43	22.62	0.47
B.6-GI TO B.5-JB	B.6-GI	B.5-JB	973.81	967.28	24	145.2	0.045	974.58	968.42	7.966	0.054	11.6	4.81	47.98	1.24
B.7-GI TO B.6-GI	B.7-GI	B.6-GI	978.05	974.18	24	55.4	0.07	978.83	974.57	9.256	0.067	5	4.91	59.78	0.39
B.8-GI TO B.7-GI	B.8-GI	B.7-GI	986.53	978.05	24	121.4	0.07	987.2	978.99	9.298	0.074	5	3.65	59.78	0.93
B.9-GI TO B.8-GI	B.9-GI	B.8-GI	987.78	987.21	18	56.9	0.01	988.47	987.79	9.338	0.057	5	3.29	10.5	0.58
C.1-DOGHOUSE TO A.26-MH	C.1-DOGHOUSE CI	A.26-MH	983.73	982.13	24		0.078	984.75	983.22	7.167	0.151	5	8.23	63.1	1.09
C.2-GI TO C.1-DOGHOUSE CI	C.2-GI	C.1-DOGHOUSE	985.84	985.5	18	33.9	0.01	986.37	985.94	9.41	0.239	5	1.95	10.5	0.44

STORM DRAINAGE PROFILE NOTES:

1. ALL PIPE LENGTHS SPECIFIED IN THESE PLANS ARE THE HORIZONTAL DISTANCE AND ARE SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL LENGTHS BASED ON PROPOSED PIPE SLOPE. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO FIELD VERIFY EXISTING INVERT FOR STORM DRAINAGE SERVICE CONNECTIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCY PRIOR TO PROCEEDING.
3. ALL STORM PIPE SHALL HAVE BEDDING PER BEDDING DETAILS IN CONSTRUCTION DETAIL SHEETS.
4. ALL STORM PIPING TO BE RCP UNLESS OTHERWISE NOTED. SEE CHART FOR PIPE CLASS.
5. RIM ELEVATIONS GIVEN ARE APPROXIMATE. CONTRACTOR SHALL REFERENCE GRADING PLAN FOR STRUCTURE THROAT / RIM ELEVATIONS.
6. IF ANY CONFLICTS, DISCREPANCIES, OR ANY OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY AND SHALL NOT COMMENCE FURTHER OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED.
7. ALL STORM JOINTS TO BE WATER TIGHT.

PROFILE LINE LEGEND:

- PROPOSED GRADE LINE
- EXISTING GRADE LINE
- 25-YR HYDRAULIC GRADE LINE
- 100-YR HYDRAULIC GRADE LINE

RCP PIPE CLASSIFICATION CHART:

1-15' CLASS III
15'-20' CLASS IV
20'-30' CLASS V

ALL CONCRETE PIPE SHALL BE A MINIMUM CLASS III WITH 12" MINIMUM COVER. REFERENCE GDOT DETAIL 1030D FOR ADDITIONAL GUIDANCE.

GEORGIA811. Utilities Protection Center, Inc. Know what's below. Call before you dig.

VERTICAL SCALE IN FEET: 0, 4, 8
HORIZONTAL SCALE IN FEET: 0, 40, 80

PREPARED BY
Kimley»Horn
© 2019 KIMLEY-HORN AND ASSOCIATES, INC.
11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
PHONE: (770) 619-4500
WWW.KIMLEY-HORN.COM

PREPARED FOR
HIGH STREET DEVELOPMENT LLC
125 HIGH STREET, HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110
PHONE: (617) 854-6641

No.	ISSUANCE AND REVISION DESCRIPTIONS	DATE	BY

PROJECT
HIGH STREET - PHASE 1
211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND RIDGE, DUNWOODY, GA 30346
LAND LOT 348, 18TH DISTRICT

GEORGIA REGISTERED No. PE044139 PROFESSIONAL ENGINEER MAREK M. ZITTRAUER

GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

TITLE
STORM PIPE TABLE

SHEET NUMBER
C3-60

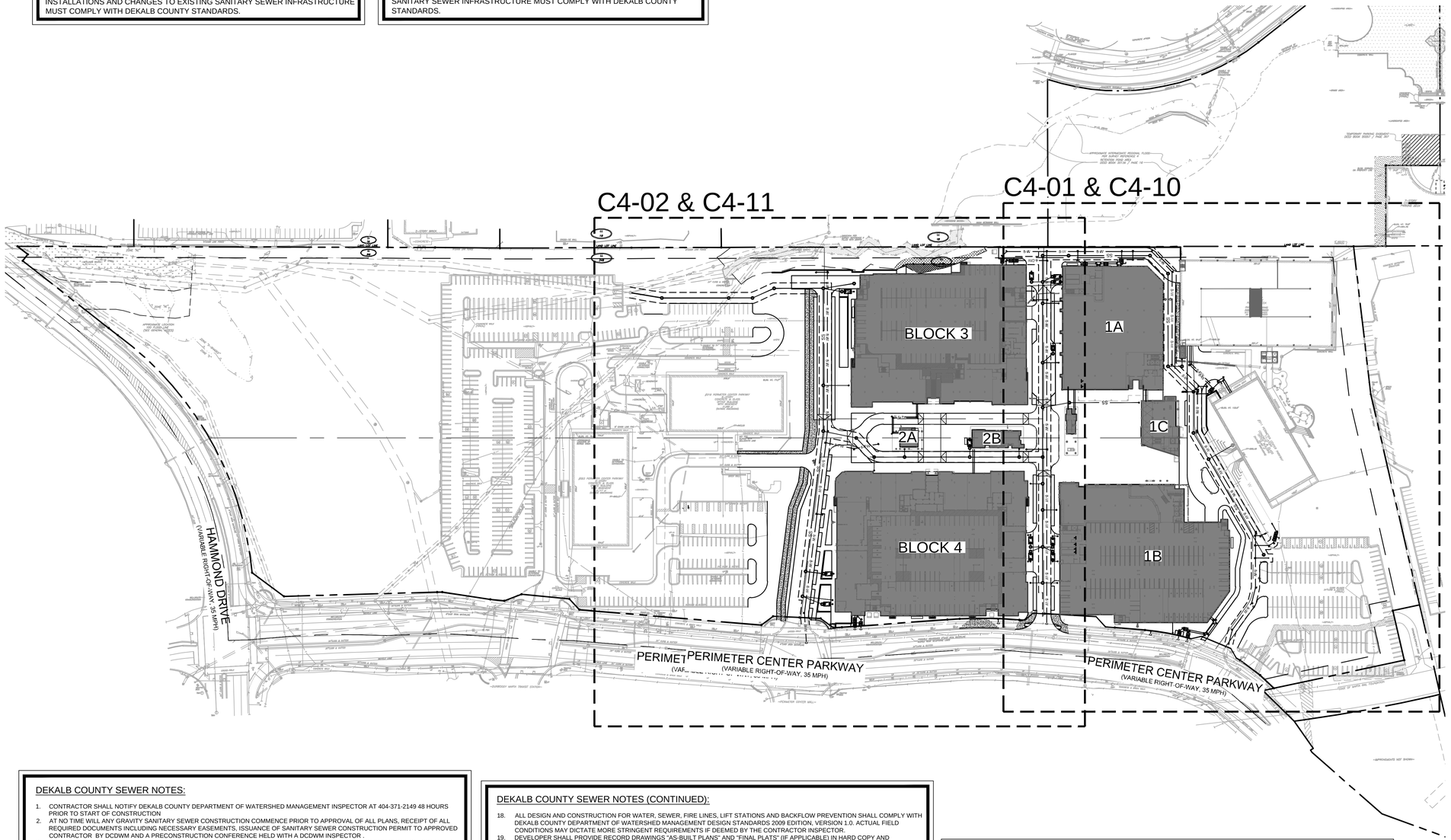
Drawing name: K:\ALP_PRJ\019473000_GID - High Street\CADD\PlanSheets\Phase 1\C3-60 - STORM SEWER PROFILES.dwg C3-60 - STORM PIPE TABLE Aug 16, 2019 1:59pm by: russell.noah

SEWER PROJECT DESCRIPTION:

SEWER MAIN, VARYING IN SIZE, IS TO BE INSTALLED PARALLEL TO THE 8" DIP WATER MAIN IN A 22.5' EASEMENT THROUGHOUT THE PRIVATE DRIVES ONSITE. THE EXISTING 24" DIP SANITARY SEWER PIPE ALONG THE WESTERN PROPERTY LINE WILL BE THE OUTFALL POINT. VARYING SIZE DIP LATERALS WILL CONNECT THE PROPOSED PUBLIC SEWER TO THE BUILDING. ALL ADDITIONS, INSTALLATIONS AND CHANGES TO EXISTING SANITARY SEWER INFRASTRUCTURE MUST COMPLY WITH DEKALB COUNTY STANDARDS.

WATER PROJECT DESCRIPTION:

THERE WILL BE ONE FDC FOR EACH INSTANCE IN WHICH A FIRE WATER LINE ENTERS A BUILDING. EIGHT FIRE HYDRANTS PROPOSED ARE ON SITE. EIGHT TAPS ONTO THE 8" DIP MAIN ON PERIMETER CENTER PARKWAY WILL BE MADE TO FEED THE PROPOSED FIRE AND DOMESTIC WATER INFRASTRUCTURE IN AND AROUND THE SITE. ALL ADDITIONS, INSTALLATIONS AND CHANGES TO EXISTING SANITARY SEWER INFRASTRUCTURE MUST COMPLY WITH DEKALB COUNTY STANDARDS.



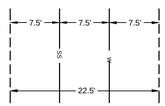
UTILITY NOTES:

1. ALL SANITARY SEWER CLEANOUTS IN PAVED AREAS SHALL HAVE A BRASS CAP SET FLUSH WITH THE PROPOSED GRADE.
2. CONTRACTOR SHALL COORDINATE UTILITY CONNECTION AND REROUTING LOCATIONS WITH APPLICABLE AGENCIES.
3. ALL UTILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH DEKALB COUNTY SANITARY SEWER AND DEKALB COUNTY WATER DETAILS AND SPECIFICATIONS.
4. ALL PIPE LENGTHS SPECIFIED IN THESE PLANS ARE THE HORIZONTAL DISTANCE AND ARE SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL LENGTHS BASED ON PROPOSED PIPE SLOPE. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
5. UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES HAVING UTILITIES WITHIN OR ADJACENT TO THE WORK AREA. THE CONTRACTOR SHALL HAVE THE UTILITIES FIELD LOCATED AND COORDINATE WITH THE UTILITY COMPANIES TO HAVE CONFLICTS RELOCATED WHEN NECESSARY OR ADAPTED FOR TIE-INS.
6. ALL UTILITY CONNECTIONS END AT 5' OUTSIDE OF THE BUILDING FOOTPRINT. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING PLANS FOR BUILDING LAYOUT AND INTERNAL UTILITY SERVICE.
7. ALL ONSITE UTILITIES SHALL BE LOCATED UNDERGROUND.
8. CONTRACTOR TO FIELD VERIFY EXISTING INVERT FOR SANITARY SEWER SERVICE CONNECTIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCY PRIOR TO PROCEEDING.

UTILITY LEGEND:

- W — PROPOSED WATER LINE
- UGP — PROPOSED ELECTRIC LINE
- UGT — PROPOSED TELEPHONE LINE
- G — PROPOSED NATURAL GAS LINE
- SS — PROPOSED SANITARY SEWER PIPE
- PROPOSED SANITARY SEWER CLEANOUT
- SANITARY SEWER MANHOLE
- SANITARY SEWER GREASE TRAP
- WATER VALVE
- FIRE DEPARTMENT CONNECTION (FDC)
- FIRE HYDRANT
- POST INDICATOR VALVE (PIV)
- WATER MAIN TAPPING SLEEVE
- WATER CONNECTIONS AND BENDS

TYPICAL UTILITY EASEMENT DETAIL:



PROPOSED SEWER:

- 46 SANITARY SEWER MHs
- 550 LF OF 6" DIP
- 2,690 LF OF 8" DIP
- 85 LF OF 10" DIP
- 360 LF OF 12" DIP
- 180 LF OF 16" DIP
- 350 LF OF 24" DIP
- 1 TIE IN LOCATION

PROPOSED WATER:

- 9 FHS
- 2,800 LF OF 8" DIP
- 600 LF OF 6" DIP
- 250 LF OF 4" DIP
- 160 LF OF 2" DIP

DEKALB COUNTY SEWER NOTES:

1. CONTRACTOR SHALL NOTIFY DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT INSPECTOR AT 404-371-2149 48 HOURS PRIOR TO START OF CONSTRUCTION
2. AT NO TIME WILL ANY GRAVITY SANITARY SEWER CONSTRUCTION COMMENCE PRIOR TO APPROVAL OF ALL PLANS, RECEIPT OF ALL REQUIRED DOCUMENTS INCLUDING NECESSARY EASEMENTS, ISSUANCE OF SANITARY SEWER CONSTRUCTION PERMIT TO APPROVED CONTRACTOR BY DCDWM AND A PRECONSTRUCTION CONFERENCE HELD WITH A DCDWM INSPECTOR .
3. ALL GRAVITY SANITARY SEWER LINES, MANHOLES AND OTHER APPURTENANCES TO BE GOVERNED BY DCDWM SHALL BE INSTALLED ACCORDING TO APPROVED PLANS AND PROFILES. CONTRACTOR MUST HAVE A SET OF THE APPROVED DESIGN CONTAINING AN ORIGINAL DCDWM STAMP, A COPY OF THE DESIGN STANDARDS, CURRENT EDITION, ON SITE AT ALL TIMES.
4. CONTRACTOR SHALL ADHERE TO ALL FEDERAL, STATE, COUNTY, AND LOCAL LAWS, ORDINANCES AND REGULATIONS WHICH IN ANY MANNER AFFECT THE CONDUCT OF THE WORK, INCLUDING BUT NOT LIMITED TO INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
5. SANITARY SEWER CONSTRUCTION SHALL BE DONE IN OPEN TRENCHES AND IN A MANNER TO PROTECT LINES, SANITARY SEWERS OR STRUCTURES FROM UNUSUAL STRESSES.
6. CONTRACTOR SHALL PROVIDE FOR THE FLOW OF ALL SANITARY SEWERS OR DRAINS INTERRUPTED DURING THE PROGRESS OF THE WORK AND SHALL RESTORE SAME TO A PRECONSTRUCTION CONDITION.
7. AT THE START OF CONSTRUCTION CONTRACTOR SHALL INSTALL AN AIR PLUG IN THE FIRST PIPE LAID OUT OF THE ENTRANCE MANHOLE AND IN THE DOWNGRADE SIDE OF THE FIRST NEWLY INSTALLED MANHOLE. SAID PLUGS SHALL REMAIN IN PLACE UNTIL FINAL INSPECTION AND APPROVAL IS GIVEN BY DCDWM. CONTRACTOR MUST EXERCISE EXTREME CAUTION TO ENSURE PLUGS ARE NOT LOST INTO THE GRAVITY SANITARY SEWER SYSTEM.
8. THE CONTRACTOR MUST COMPLY WITH ALL REQUIREMENTS OF THE DEKALB COUNTY SOIL EROSION AND SEDIMENT CONTROL ORDINANCE, THE PROVISIONS OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL N GEORGIA," AND ANY SPECIAL CONDITION REQUIRED BY THE PERMIT ASSOCIATED WITH ANY VARIANCES ISSUED BY THE SAME, AND ANY SPECIAL CONDITIONS REQUIRED BY THE DCDWM INSPECTOR.
9. GRAVITY SEWER LINE MATERIAL SHALL BE PVC (SDR35) OR DIP (CLASS 350).
10. ALL SANITARY SEWERS PIPE AND FITTINGS SHALL BE MARKED IN ACCORDANCE WITH THE LATEST ASTM/ANSI DESIGNATIONS. PIPE MARKINGS SHALL APPEAR AT INTERVALS OF FIVE (5) FEET OR LESS ON PIPE BARREL.
11. REFER TO DCDWM STANDARD MANUAL FOR ACCEPTABLE MATERIAL CLASSIFICATIONS.
12. MANHOLES SHALL BE PRECAST REINFORCED CONCRETE CONSTRUCTION MADE IN CONFORMANCE WITH THE LATEST EDITION OF ANSI/ASTM C478. THE MINIMUM WALL THICKNESS FOR A FOUR FOOT DIAMETER MANHOLE IS FIVE INCHES.
13. ALL EXCAVATION SHALL BE OPEN CUT UNLESS OTHERWISE INDICATED ON THE APPROVED DESIGN OR DIRECTED BY DCDWM. EXCAVATION BELOW TOPSOIL MAY BE PERFORMED BY MACHINE, BUT SHALL BE SUPPLEMENTED BY SUCH HAND DRESSING OR LEVELING AS MAY BE REQUIRED TO CONFORM TO THE LINES AND GRADES AS GIVEN BY DCDWM. REFER TO DCDWM TRENCH DETAIL IN CONSTRUCTION DETAILS.
14. THE FLOW IN SANITARY SEWERS, DRAINS, GUTTERS, OR WATER COURSES ENCOUNTERED DURING CONSTRUCTION SHALL BE ADEQUATELY PROVIDED FOR BY THE CONTRACTOR TO ENSURE THESE FLOWS DO NOT INTERFERE WITH THE PROSECUTION OF WORK, AND ARE MAINTAINED IN SUCH A WAY TO ENSURE CONTINUITY OF FLOW.
15. IF RAW SEWAGE IS ENCOUNTERED DURING PERFORMANCE OF THE WORK, THE CONTRACTOR MUST IMMEDIATELY STOP WORK AND SHALL NOTIFY DCDWM.
16. BEDDING MATERIAL SHALL BE IN ACCORDANCE WITH GDOT STANDARD SPECIFICATION SECTION 812, TYPE II FOUNDATION BACKFILL.
17. CONTRACTOR TO REFER TO DCDWM GRAVITY SANITARY SEWER DESIGN STANDARDS FOR INSTALLATION OF ALL SANITARY SEWER.

DEKALB COUNTY SEWER NOTES (CONTINUED):

18. ALL DESIGN AND CONSTRUCTION FOR WATER, SEWER, FIRE LINES, LIFT STATIONS AND BACKFLOW PREVENTION SHALL COMPLY WITH DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT DESIGN STANDARDS 2009 EDITION, VERSION 1.0. ACTUAL FIELD CONDITIONS MAY DICTATE MORE STRINGENT REQUIREMENTS IF DEEMED BY THE CONTRACTOR INSPECTOR.
19. DEVELOPER SHALL PROVIDE RECORD DRAWINGS "AS-BUILT PLANS" AND "FINAL PLATS" (IF APPLICABLE) IN HARD COPY AND ELECTRONIC FORMAT, AS WELL AS, RECORD ALL EASEMENTS THAT WILL BE DEDICATED TO DEKALB COUNTY IN THE COURT HOUSE, PRIOR TO APPROVAL OF AS-BUILT PLANS.
20. FIELD CHANGES DURING CONSTRUCTION MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE COUNTY WATER & SEWER ENGINEER BEFORE CHANGES ARE IMPLEMENTED.
21. FOR PROJECTS WITHIN CITIES, DEVELOPER SHALL PROVIDE A MAINTENANCE BOND TO DEKALB COUNTY FOR WATERSHED UTILITIES PRIOR TO APPROVAL OF AS-BUILT PLANS.
22. CONTRACTOR MUST JET CLEAN AND TV SANITARY SEWER LINES AFTER CONNECTIONS ARE MADE TO THE EXISTING TIE-IN POINTS. TRACER WIRE TO BE INSTALLED FOR PVC PIPES.
23. CALL (404) 371-4918 FOR FEE CALCULATIONS OR ANY QUESTIONS.
24. PROVIDE EASEMENT PLAT & DEED FOR ALL SANITARY SEWER AND WATER EASEMENTS. (AFTER CONSTRUCTION AND WITH AS-BUILTS).
25. CONTRACTOR MUST NOTIFY THE WATER & SEWER CONSTRUCTION INSPECTOR AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
26. TO PURCHASE A COPY OF THE DESIGN STANDARDS, PLEASE CALL (770) 621-7272
27. FIRE LINES, F.O.G., BACKFLOW PREVENTION, AND LIFT STATIONS REQUIRE A SEPARATE REVIEW.
28. F.O.G. COMPLIANCE (GREASE TRAP) REVIEW & APPROVAL REQUIRED- CALL (404) 687-7150 OR (404) 687-7157.
29. PROJECTS INVOLVING CONSTRUCTION OF TOWN HOMES AND/OR CONDOMINIUMS ARE REQUIRED TO HAVE INDIVIDUAL METERS FOR EACH UNIT.
30. POTABLE WATER MAIN SHALL MAINTAIN A TEN (10') FOOT HORIZONTAL AND EIGHTEEN (18') INCH VERTICAL CLEARANCE FROM NON-POTABLE PIPELINES.
31. THRUST BLOCKS ARE REQUIRED WHEREVER PIPE CHANGES DIRECTION (TEES, BENDS, ETC.).
32. WATER&SEWER ACCESS FEES NEED TO BE PAID UNDER THE FOLLOWING CIRCUMSTANCES:
    NEW CONSTRUCTION, RE-DEVELOPMENT, ADDITIONS, CHANGE OF USE, ETC. THESE FEES ARE TO BE PAID AT 330 W. PONCE DE LEON AVE, 2ND FLOOR. FAILURE TO SETTLE THESE FEES WILL RESULT IN DELAYS FOR OBTAINING WATER & SEWER PLAN APPROVAL, AS WELL AS CERTIFICATE OF OCCUPANCY/COMPLETION. CALL (404) 371-4918 FOR FEE CALCULATIONS OR ANY QUESTIONS.
33. CONTRACTOR MUST NOTIFY WATER & SEWER CONSTRUCTION INSPECTOR AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.

DISTRICT	15	16	18 (WEST)	18 (EAST)
INSPECTOR	L. KELLEY	D. O'BRIEN	M. MCGUIRE	M. DENIS
PHONE	(404) 371-2149	(404) 687-4050	(404) 687-4060	(404) 371-2110

UTILITY NOTES:

1. EXISTING UNDERGROUND UTILITY INFORMATION PER BOUNDARY AND TOPOGRAPHIC SURVEY PROVIDED BY GEOSURVEY, LTD DATED 05/26/2015.
2. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES AND/OR CONFLICTS WITH EXISTING OR PROPOSED UTILITIES.
3. ALL UTILITY CONNECTIONS END AT 5' OUTSIDE THE BUILDING FOOTPRINT. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING PLANS FOR BUILDING LAYOUT AND INTERNAL UTILITY SERVICE.
4. CONTRACTOR SHALL COORDINATE ALL NEW AND RELOCATED UTILITY SERVICES WITH THE APPROPRIATE LOCAL UTILITY COMPANY.
5. ALL PIPE LENGTHS SPECIFIED IN THESE PLANS ARE THE HORIZONTAL DISTANCE AND ARE SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL LENGTHS BASED ON PROPOSED PIPE SLOPE.
6. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
7. CONTRACTOR MUST PROVIDE THREE (3) SETS OF "AS-BUILT" PLANS TO OWNER. ASBUILT WILL INCLUDE SURVEY OF STORM SYSTEM, VAULT, AND WATER MAIN EXTENSION. ASBUILT DRAWINGS MUST BE PREPARED AND SEALED BY A GEORGIA REGISTERED LAND SURVEYOR.
8. FLOODPLAIN IS PRESENT ON A PORTION OF THIS PROPERTY PER FIRM PANEL 13089C0011J DATED 05/16/2013.
9. ALL PROPOSED MANHOLES SHALL BE ADJUSTED AS NECESSARY TO BE FLUSH WITH PROPOSED GRADE.
10. ALL BUILDINGS WILL BE SPRINKLERED AS REQUIRED BY THE FIRE CODE.
11. REFER TO MEP PLANS AND CONSTRUCTION DETAILS FOR DCDWM DETAILS REGARDING BACKFLOW PREVENTION FOR DOMESTIC AND FIRE.
12. WATERLINES TO HAVE PROPER BLOCKING PER REQUIREMENTS IN DCDWM STANDARDS.
13. ALL NEW HYDRANTS ARE TO BE INSTALLED PRIOR TO THE START OF BUILDING FRAMING.
14. CONTRACTOR TO INSTALL THRUST BLOCKS AT ALL TEES AND BENDS >11.25°
15. DEKALB COUNTY TO PROVIDE WATER METER AND WATER MAIN TAP. CONTRACTOR WILL PROVIDE WATER SERVICE EXTENSION AND VAULTS AT OWN EXPENSE.
16. ALL BACKFLOW DEVICES MUST BE INSTALLED PER DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT STANDARDS, AS CLOSE AS PRACTICAL TO PROPERTY LINE AND OUT OF RIGHT OF WAY.
17. CALL (404) 687-4075 FOR BACKFLOW INSPECTION PRIOR TO INSTALLATION OF BACKFLOW PREVENTERS.
18. NO IRRIGATION WILL BE INSTALLED THAT TAPS FROM DEKALB COUNTY WATER MAINS.
19. TRANSFORMER LOCATION AND PRIMARY FEED TO TRANSFORMERS SHOWN FOR REFERENCE ONLY. GEORGIA POWER TO HANDLE INSTALLATION.
20. CONTRACTOR SHALL REPAIR/REPLACE DAMAGED SIDEWALK WITHIN RIGHT-OF-WAY AS NECESSARY FROM UTILITY INSTALLATION.
21. AN IRRIGATION SYSTEM IS NOT PROPOSED DURING THIS PHASE OF THE PROJECT. THE IRRIGATION LINE AND RPZ WILL BE INCLUDED WITHIN THE NEXT PHASE OF CONSTRUCTION WITH THE PROPOSED LANDSCAPE DESIGN.
22. PLUMBING PLANS AND SIZING SHALL BE APPROVED BEFORE BUILDING CONSTRUCTION.

GEORGIA811
Utilities Protection Center, Inc.
Know what's below.
Call before you dig.

NORTH

GRAPHIC SCALE IN FEET
0 50 100 200

PREPARED BY
Kimley»Horn

11720 AMBER PARK DRIVE, SUITE 600
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PHONE: (770) 818-4200
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125 HIGH STREET, HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110
PHONE: (617) 854-6641

NO.	ISSUANCE AND REVISION DESCRIPTIONS	DATE	BY

PROJECT
HIGH STREET - PHASE 1
211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND DRIVE, DUNWOODY, GEORGIA 30346
LAND LOT 348, 18TH DISTRICT

GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. PE044139
DEREK M. ZITTRAUER

GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

TITLE
OVERALL UTILITY PLAN

SHEET NUMBER
C4-00

Drawing name: K:\ALP_PRJ\019473000_GID - High Street\CADD\PlanSheets\Phase 1\C4-00 - UTILITY PLAN.dwg C4-00 - OVERALL UTILITY PLAN Aug 16, 2019 4:58pm by: derek.zittrauer

DEKALB COUNTY SEWER NOTES:

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INSPECTOR	L. KELLEY	D. O'BRIEN	M. MCGUIRE	M. DENIS
PHONE	(404) 371-2149	(404) 687-4050	(404) 687-4060	(404) 371-2110

PROPOSED SEWER:

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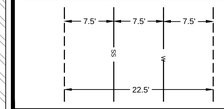
- 1 TIE IN LOCATION

TYPICAL UTILITY EASEMENT DETAIL:



UTILITY NOTES:

1. ALL SANITARY SEWER CLEANOUTS IN PAVED AREAS SHALL HAVE A BRASS CAP SET FLUSH WITH THE PROPOSED GRADE.
2. CONTRACTOR SHALL COORDINATE UTILITY CONNECTION AND REROUTING LOCATIONS WITH APPLICABLE AGENCIES.
3. ALL UTILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH DEKALB COUNTY SANITARY SEWER AND DEKALB COUNTY WATER DETAILS AND SPECIFICATIONS.
4. ALL PIPE LENGTHS SPECIFIED IN THESE PLANS ARE THE HORIZONTAL DISTANCE AND ARE SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL LENGTHS BASED ON PROPOSED PIPE SLOPE. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
5. UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES HAVING UTILITIES WITHIN OR ADJACENT TO THE WORK AREA. THE CONTRACTOR SHALL HAVE THE UTILITIES FIELD LOCATED AND COORDINATE WITH THE UTILITY COMPANIES TO HAVE CONFLICTS RELOCATED WHEN NECESSARY OR ADAPTED FOR TIE-INS.
6. ALL UTILITY CONNECTIONS END AT 5' OUTSIDE OF THE BUILDING FOOTPRINT. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING PLANS FOR BUILDING LAYOUT AND INTERNAL UTILITY SERVICE.
7. ALL ONSITE UTILITIES SHALL BE LOCATED UNDERGROUND.
8. CONTRACTOR TO FIELD VERIFY EXISTING INVERT FOR SANITARY SEWER SERVICE CONNECTIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCY PRIOR TO PROCEEDING.

UTILITY LEGEND:

- W — PROPOSED WATER LINE
- UGP — PROPOSED ELECTRIC LINE
- UGT — PROPOSED TELEPHONE LINE
- G — PROPOSED NATURAL GAS LINE
- SS — PROPOSED SANITARY SEWER PIPE
- PROPOSED SANITARY SEWER CLEANOUT
- SANITARY SEWER MANHOLE
- SANITARY SEWER GREASE TRAP
- WATER VALVE
- FIRE DEPARTMENT CONNECTION (FDC)
- FIRE HYDRANT
- POST INDICATOR VALVE (PIV)
- WATER MAIN TAPPING SLEEVE
- WATER CONNECTIONS AND BENDS

SEWER PROJECT DESCRIPTION:

SEWER MAIN, VARYING IN SIZE, IS TO BE INSTALLED PARALLEL TO THE 8" DIP WATER MAIN IN A 22.5' EASEMENT THROUGHOUT THE PRIVATE DRIVES ONSITE. THE EXISTING 24" DIP SANITARY SEWER PIPE ALONG THE WESTERN PROPERTY LINE WILL BE THE OUTFALL POINT. VARYING SIZE DIP LATERALS WILL CONNECT THE PROPOSED PUBLIC SEWER TO THE BUILDING. ALL ADDITIONS, INSTALLATIONS AND CHANGES TO EXISTING SANITARY SEWER INFRASTRUCTURE MUST COMPLY WITH DEKALB COUNTY STANDARDS.

UTILITY NOTES:

1. EXISTING UNDERGROUND UTILITY INFORMATION PER BOUNDARY AND TOPOGRAPHIC SURVEY PROVIDED BY GEOSURVEY, LTD DATED 05/26/2015.
2. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES AND/OR CONFLICTS WITH EXISTING OR PROPOSED UTILITIES.
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6. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
7. CONTRACTOR MUST PROVIDE THREE (3) SETS OF "AS-BUILT" PLANS TO OWNER. ASBUILT WILL INCLUDE SURVEY OF STORM SYSTEM, VAULT, AND WATER MAIN EXTENSION. ASBUILT DRAWINGS MUST BE PREPARED AND SEALED BY A GEORGIA REGISTERED LAND SURVEYOR.
8. FLOODPLAIN IS PRESENT ON A PORTION OF THIS PROPERTY PER FIRM PANEL 13089C0011J DATED 05/16/2013.
9. ALL PROPOSED MANHOLES SHALL BE ADJUSTED AS NECESSARY TO BE FLUSH WITH PROPOSED GRADE.
10. ALL BUILDINGS WILL BE SPRINKLERED AS REQUIRED BY THE FIRE CODE.
11. REFER TO MEP PLANS AND CONSTRUCTION DETAILS FOR DCDWM DETAILS REGARDING BACKFLOW PREVENTION FOR DOMESTIC AND FIRE.
12. WATERLINES TO HAVE PROPER BLOCKING PER REQUIREMENTS IN DCDWM STANDARDS.
13. ALL NEW HYDRANTS ARE TO BE INSTALLED PRIOR TO THE START OF BUILDING FRAMING.
14. CONTRACTOR TO INSTALL THRUST BLOCKS AT ALL TEES AND BENDS >11.25°
15. DEKALB COUNTY TO PROVIDE WATER METER AND WATER MAIN TAP. CONTRACTOR WILL PROVIDE WATER SERVICE EXTENSION AND VAULTS AT OWN EXPENSE.
16. ALL BACKFLOW DEVICES MUST BE INSTALLED PER DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT STANDARDS, AS CLOSE AS PRACTICAL TO PROPERTY LINE AND OUT OF RIGHT OF WAY.
17. CALL (404) 687-4075 FOR BACKFLOW INSPECTION PRIOR TO INSTALLATION OF BACKFLOW PREVENTERS.
18. NO IRRIGATION WILL BE INSTALLED THAT TAPS FROM DEKALB COUNTY WATER MAINS.
19. TRANSFORMER LOCATION AND PRIMARY FEED TO TRANSFORMERS SHOWN FOR REFERENCE ONLY. GEORGIA POWER TO HANDLE INSTALLATION.
20. CONTRACTOR SHALL REPAIR/REPLACE DAMAGED SIDEWALK WITHIN RIGHT-OF-WAY AS NECESSARY FROM UTILITY INSTALLATION.
21. AN IRRIGATION SYSTEM IS NOT PROPOSED DURING THIS PHASE OF THE PROJECT. THE IRRIGATION LINE AND RPZ WILL BE INCLUDED WITHIN THE NEXT PHASE OF CONSTRUCTION WITH THE PROPOSED LANDSCAPE DESIGN.
22. PLUMBING PLANS AND SIZING SHALL BE APPROVED BEFORE BUILDING CONSTRUCTION.

GEORGIA811. Utilities Protection Center, Inc. Know what's below. Call before you dig.

GRAPHIC SCALE IN FEET
0 20 40 80

PREPARED BY
Kimley»Horn
© 2019 KIMLEY-HORN AND ASSOCIATES, INC.
11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
PHONE: 678-686-2900
WWW.KIMLEY-HORN.COM

PREPARED FOR
HIGH STREET DEVELOPMENT LLC
125 HIGH STREET, HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110
PHONE: (617) 854-6641

No.	ISSUANCE AND REVISION DESCRIPTIONS	DATE	BY

PROJECT
HIGH STREET - PHASE 1
211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND DRIVE, DUNWOODY, GA 30346
LAND LOT 348, 18TH DISTRICT

GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. PE044139
DEREK M. ZITTRAUER

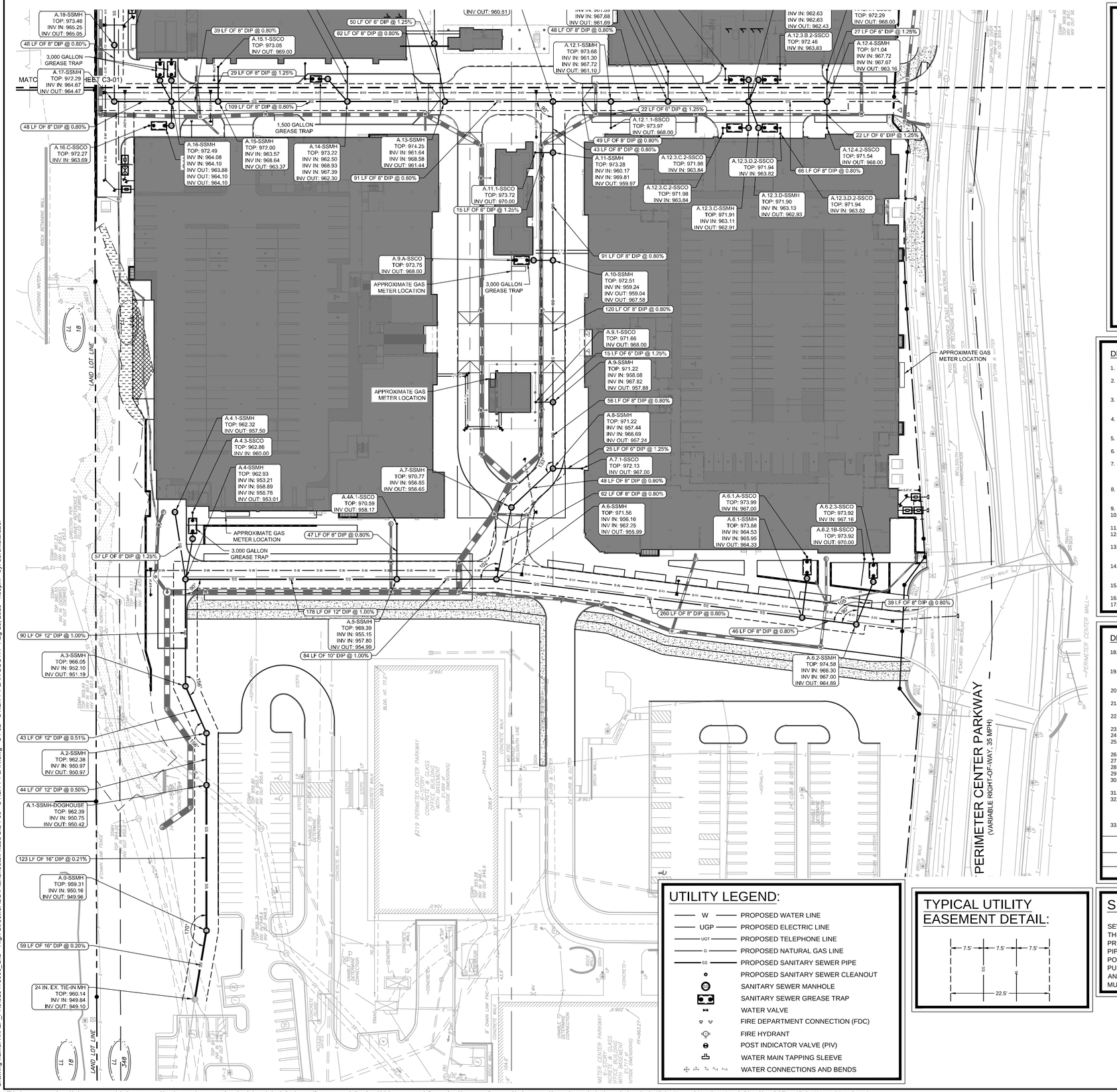
GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

TITLE
UTILITY PLAN NORTH

SHEET NUMBER
C4-01

MATCH LINE (SEE SHEET C4-02)

Drawing name: K:\ALP_PRJ\019473000_GID - High Street\CADD\PlanSheets\Phase 1\C4-00 - UTILITY PLAN.dwg C4-01 - UTILITY PLAN NORTH Aug 16, 2019 4:58pm by derek.zittrauer



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30. PLUMBING PLANS AND SIZING SHALL BE APPROVED BEFORE BUILDING CONSTRUCTION.

DEKALB COUNTY SEWER NOTES:

1. CONTRACTOR SHALL NOTIFY DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT INSPECTOR AT 404-371-2149 48 HOURS PRIOR TO START OF CONSTRUCTION
2. AT NO TIME WILL ANY GRAVITY SANITARY SEWER CONSTRUCTION COMMENCE PRIOR TO APPROVAL OF ALL PLANS, RECEIPT OF ALL REQUIRED DOCUMENTS INCLUDING NECESSARY EASEMENTS, ISSUANCE OF SANITARY SEWER CONSTRUCTION PERMIT TO APPROVED CONTRACTOR BY DCDWM AND A PRECONSTRUCTION CONFERENCE HELD WITH A DCDWM INSPECTOR
3. ALL GRAVITY SANITARY SEWER LINES, MANHOLES AND OTHER APPURTENANCES TO BE GOVERNED BY DCDWM SHALL BE INSTALLED ACCORDING TO APPROVED PLANS AND PROFILES. CONTRACTOR MUST HAVE A SET OF THE APPROVED DESIGN CONTAINING AN ORIGINAL DCDWM STAMP, A COPY OF THE DESIGN STANDARDS, CURRENT EDITION, ON SITE AT ALL TIMES.
4. CONTRACTOR SHALL ADHERE TO ALL FEDERAL, STATE, COUNTY, AND LOCAL LAWS, ORDINANCES AND REGULATIONS WHICH IN ANY MANNER AFFECT THE CONDUCT OF THE WORK, INCLUDING BUT NOT LIMITED TO INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
5. SANITARY SEWER CONSTRUCTION SHALL BE DONE IN OPEN TRENCHES AND IN A MANNER TO PROTECT LINES, SANITARY SEWERS OR STRUCTURES FROM UNUSUAL STRESSES.
6. CONTRACTOR SHALL PROVIDE FOR THE FLOW OF ALL SANITARY SEWERS OR DRAINS INTERRUPTED DURING THE PROGRESS OF THE WORK AND SHALL RESTORE SAME TO A PRECONSTRUCTION CONDITION.
7. AT THE START OF CONSTRUCTION CONTRACTOR SHALL INSTALL AN AIR PLUG IN THE FIRST PIPE LAID OUT OF THE ENTRANCE MANHOLE AND IN THE DOWNGRADE SIDE OF THE FIRST NEWLY INSTALLED MANHOLE. SAID PLUGS SHALL REMAIN IN PLACE UNTIL FINAL INSPECTION AND APPROVAL IS GIVEN BY DCDWM. CONTRACTOR MUST EXERCISE EXTREME CAUTION TO ENSURE PLUGS ARE NOT LOST INTO THE GRAVITY SANITARY SEWER SYSTEM.
8. THE CONTRACTOR MUST COMPLY WITH ALL REQUIREMENTS OF THE DEKALB COUNTY SOIL EROSION AND SEDIMENT CONTROL ORDINANCE, THE PROVISIONS OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL N GEORGIA," AND ANY SPECIAL CONDITION REQUIRED BY THE EPD ASSOCIATED WITH ANY VARIANCES ISSUED BY THE SAME, AND ANY SPECIAL CONDITIONS REQUIRED BY THE DCDWM INSPECTOR.
9. GRAVITY SEWER LINE MATERIAL SHALL BE PVC (SDR35) OR DIP (CLASS 350).
10. ALL SANITARY SEWERS PIPE AND FITTINGS SHALL BE MARKED IN ACCORDANCE WITH THE LATEST ASTM/ANSI DESIGNATIONS. PIPE MARKINGS SHALL APPEAR AT INTERVALS OF FIVE (5) FEET OR LESS ON PIPE BARREL.
11. REFER TO DCDWM STANDARD MANUAL FOR ACCEPTABLE MATERIAL CLASSIFICATIONS.
12. MANHOLES SHALL BE PRECAST REINFORCED CONCRETE CONSTRUCTION MADE IN CONFORMANCE WITH THE LATEST EDITION OF ANSI/ASTM C478. THE MINIMUM WALL THICKNESS FOR A FOUR FOOT DIAMETER MANHOLE IS FIVE INCHES.
13. ALL EXCAVATION SHALL BE OPEN CUT UNLESS OTHERWISE INDICATED ON THE APPROVED DESIGN OR DIRECTED BY DCDWM. EXCAVATION BELOW TOPSOIL MAY BE PERFORMED BY MACHINE, BUT SHALL BE SUPPLEMENTED BY SUCH HAND DRESSING OR LEVELING AS MAY BE REQUIRED TO CONFORM TO THE LINES AND GRADES AS GIVEN BY DCDWM. REFER TO DCDWM TRENCH DETAIL IN CONSTRUCTION DETAILS.
14. THE FLOW IN SANITARY SEWERS, DRAINS, GUTTERS, OR WATER COURSES ENCOUNTERED DURING CONSTRUCTION SHALL BE ADEQUATELY PROVIDED FOR BY THE CONTRACTOR TO ENSURE THESE FLOWS DO NOT INTERFERE WITH THE PROSECUTION OF WORK, AND ARE MAINTAINED IN SUCH A WAY TO ENSURE CONTINUITY OF FLOW.
15. IF RAW SEWAGE IS ENCOUNTERED DURING PERFORMANCE OF THE WORK, THE CONTRACTOR MUST IMMEDIATELY STOP WORK AND SHALL NOTIFY DCDWM.
16. BEDDING MATERIAL SHALL BE IN ACCORDANCE WITH GDOT STANDARD SPECIFICATION SECTION 832, TYPE II FOUNDATION BACKFILL.
17. CONTRACTOR TO REFER TO DCDWM GRAVITY SANITARY SEWER DESIGN STANDARDS FOR INSTALLATION OF ALL SANITARY SEWER.

DEKALB COUNTY SEWER NOTES (CONTINUED):

18. ALL DESIGN AND CONSTRUCTION FOR WATER, SEWER, FIRE LINES, LIFT STATIONS AND BACKFLOW PREVENTION SHALL COMPLY WITH DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT DESIGN STANDARDS 2009 EDITION, VERSION 1.0. ACTUAL FIELD CONDITIONS MAY DICTATE MORE STRINGENT REQUIREMENTS IF DEEMED BY THE CONTRACTOR INSPECTOR.
19. DEVELOPER SHALL PROVIDE RECORD DRAWINGS "AS-BUILT PLANS" AND "FINAL PLATS" (IF APPLICABLE) IN HARD COPY AND ELECTRONIC FORMAT, AS WELL AS, RECORD ALL EASEMENTS THAT WILL BE DEDICATED TO DEKALB COUNTY IN THE COURT HOUSE, PRIOR TO APPROVAL OF AS-BUILT PLANS.
20. FIELD CHANGES DURING CONSTRUCTION MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE COUNTY WATER & SEWER ENGINEER BEFORE CHANGES ARE IMPLEMENTED.
21. FOR PROJECTS WITHIN CITIES, DEVELOPER SHALL PROVIDE A MAINTENANCE BOND TO DEKALB COUNTY FOR WATERSHED UTILITIES PRIOR TO APPROVAL OF AS-BUILT PLANS.
22. CONTRACTOR MUST JET CLEAN AND TV SANITARY SEWER LINES AFTER CONNECTIONS ARE MADE TO THE EXISTING TIE-IN POINTS. TRACER WIRE TO BE INSTALLED FOR PVC PIPES.
23. CALL (404) 371-4918 FOR FEE CALCULATIONS OR ANY QUESTIONS.
24. PROVIDE EASEMENT PLAT & DEED FOR ALL SANITARY SEWER AND WATER EASEMENTS. (AFTER CONSTRUCTION AND WITH AS-BUILTS).
25. CONTRACTOR MUST NOTIFY THE WATER & SEWER CONSTRUCTION INSPECTOR AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
26. TO PURCHASE A COPY OF THE DESIGN STANDARDS, PLEASE CALL (770) 621-7272
27. FIRE LINES, F.O.G., BACKFLOW PREVENTION, AND LIFT STATIONS REQUIRE A SEPARATE REVIEW.
28. F.O.G. COMPLIANCE (GREASE TRAP) REVIEW & APPROVAL REQUIRED - CALL (404) 687-7150 OR (404) 687-7157.
29. PROJECTS INVOLVING CONSTRUCTION OF TOWN HOMES AND/OR CONDOMINIUMS ARE REQUIRED TO HAVE INDIVIDUAL METERS FOR EACH UNIT.
30. POTABLE WATER MAIN SHALL MAINTAIN A TEN (10') FOOT HORIZONTAL AND EIGHTEEN (18") INCH VERTICAL CLEARANCE FROM NON-POTABLE PIPELINES.
31. THRUST BLOCKS ARE REQUIRED WHEREVER PIPE CHANGES DIRECTION (TEES, BENDS, ETC.).
32. WATER&SEWER ACCESS FEES NEED TO BE PAID UNDER THE FOLLOWING CIRCUMSTANCES:
    NEW CONSTRUCTION, RE-DEVELOPMENT, ADDITIONS, CHANGE OF USE, ETC. THESE FEES ARE TO BE PAID AT 330 W. PONCE DE LEON AVE, 2ND FLOOR. FAILURE TO SETTLE THESE FEES WILL RESULT IN DELAYS FOR OBTAINING WATER & SEWER PLAN APPROVAL, AS WELL AS CERTIFICATE OF OCCUPANCY/COMPLETION. CALL (404) 371-4918 FOR FEE CALCULATIONS OR ANY QUESTIONS.
33. CONTRACTOR MUST NOTIFY WATER & SEWER CONSTRUCTION INSPECTOR AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.

DISTRICT	15	16	18 (WEST)	18 (EAST)
INSPECTOR	L. KELLEY	D. O'BRIEN	M. MCGUIRE	M. DENIS
PHONE	(404) 371-2149	(404) 687-4050	(404) 687-4060	(404) 371-2110

UTILITY LEGEND:

W	PROPOSED WATER LINE
UGP	PROPOSED ELECTRIC LINE
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PROPOSED SEWER:

- 46 SANITARY SEWER MHs
- 550 LF OF 6" DIP
- 2,690 LF OF 8" DIP
- 85 LF OF 10" DIP
- 360 LF OF 12" DIP
- 180 LF OF 16" DIP
- 350 LF OF 24" DIP
- 1 TIE IN LOCATION

GEORGIA811. Utilities Protection Center, Inc. Know what's below. Call before you dig.

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

PREPARED BY
Kimley»Horn

11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
PHONE: (770) 818-4200
WWW.KIMLEY-HORN.COM

PREPARED FOR
HIGH STREET DEVELOPMENT LLC
125 HIGH STREET, HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110
PHONE: (617) 854-6641

NO.	ISSUANCE AND REVISION DESCRIPTIONS	DATE	BY

PROJECT
HIGH STREET - PHASE 1
211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND DRIVE, 30346
LAND LOT 348, 18TH DISTRICT

GEORGIA REGISTERED No. PE0041139 PROFESSIONAL ENGINEER DEREK M. ZITTRAUER

GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

TITLE
UTILITY PLAN SOUTH

SHEET NUMBER
C4-02

Drawing name: K:\ALP_PRJ\019473000_GID - High Street\CADD\PlanSheets\Phase 1\C4-00 - UTILITY PLAN.dwg Aug 16, 2019 4:59pm by: derek.zittrauer

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18. ALL BUILDINGS WILL BE SPRINKLERED AS REQUIRED BY THE FIRE CODE.
19. REFER TO MEP PLANS AND CONSTRUCTION DETAILS FOR DCDWM DETAILS REGARDING BACKFLOW PREVENTION FOR DOMESTIC AND FIRE.
20. WATERLINES TO HAVE PROPER BLOCKING PER REQUIREMENTS IN DCDWM STANDARDS.
21. ALL NEW HYDRANTS ARE TO BE INSTALLED PRIOR TO THE START OF BUILDING FRAMING.
22. CONTRACTOR TO INSTALL THRUST BLOCKS AT ALL TEES AND BENDS >11.25°
23. DEKALB COUNTY TO PROVIDE WATER METER AND WATER MAIN TAP. CONTRACTOR WILL PROVIDE WATER SERVICE EXTENSION AND VAULTS AT OWN EXPENSE.
24. ALL BACKFLOW DEVICES MUST BE INSTALLED PER DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT STANDARDS, AS CLOSE AS PRACTICAL TO PROPERTY LINE AND OUT OF RIGHT OF WAY.
25. CALL (404) 687-4075 FOR BACKFLOW INSPECTION PRIOR TO INSTALLATION OF BACKFLOW PREVENTERS.
26. NO IRRIGATION WILL BE INSTALLED THAT TAPS FROM DEKALB COUNTY WATER MAINS.
27. TRANSFORMER LOCATION AND PRIMARY FEED TO TRANSFORMERS SHOWN FOR REFERENCE ONLY. GEORGIA POWER TO HANDLE INSTALLATION.
28. CONTRACTOR SHALL REPAIR/REPLACE DAMAGED SIDEWALK WITHIN RIGHT-OF-WAY AS NECESSARY FROM UTILITY INSTALLATION.
29. AN IRRIGATION SYSTEM IS NOT PROPOSED DURING THIS PHASE OF THE PROJECT. THE IRRIGATION LINE AND RPZ WILL BE INCLUDED WITHIN THE NEXT PHASE OF CONSTRUCTION WITH THE PROPOSED LANDSCAPE DESIGN.
30. PLUMBING PLANS AND SIZING SHALL BE APPROVED BEFORE BUILDING CONSTRUCTION.

UTILITY LEGEND:

W	PROPOSED WATER LINE
UGP	PROPOSED ELECTRIC LINE
UGT	PROPOSED TELEPHONE LINE
G	PROPOSED NATURAL GAS LINE
SS	PROPOSED SANITARY SEWER PIPE
	PROPOSED SANITARY SEWER CLEANOUT
	SANITARY SEWER MANHOLE
	SANITARY SEWER GREASE TRAP
	WATER VALVE
	FIRE DEPARTMENT CONNECTION (FDC)
	FIRE HYDRANT
	POST INDICATOR VALVE (PIV)
	WATER MAIN TAPPING SLEEVE
	WATER CONNECTIONS AND BENDS

DEKALB COUNTY SEWER NOTES:

1. CONTRACTOR SHALL NOTIFY DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT INSPECTOR AT 404-371-2149 48 HOURS PRIOR TO START OF CONSTRUCTION
2. AT NO TIME WILL ANY GRAVITY SANITARY SEWER CONSTRUCTION COMMENCE PRIOR TO APPROVAL OF ALL PLANS, RECEIPT OF ALL REQUIRED DOCUMENTS INCLUDING NECESSARY EASEMENTS, ISSUANCE OF SANITARY SEWER CONSTRUCTION PERMIT TO APPROVED CONTRACTOR BY DCDWM AND A PRECONSTRUCTION CONFERENCE HELD WITH A DCDWM INSPECTOR.
3. ALL GRAVITY SANITARY SEWER LINES, MANHOLES AND OTHER APPURTENANCES TO BE GOVERNED BY DCDWM SHALL BE INSTALLED ACCORDING TO APPROVED PLANS AND PROFILES. CONTRACTOR MUST HAVE A SET OF THE APPROVED DESIGN CONTAINING AN ORIGINAL DCDWM STAMP, A COPY OF THE DESIGN STANDARDS, CURRENT EDITION, ON SITE AT ALL TIMES.
4. CONTRACTOR SHALL ADHERE TO ALL FEDERAL, STATE, COUNTY, AND LOCAL LAWS, ORDINANCES AND REGULATIONS WHICH IN ANY MANNER AFFECT THE CONDUCT OF THE WORK, INCLUDING BUT NOT LIMITED TO INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
5. SANITARY SEWER CONSTRUCTION SHALL BE DONE IN OPEN TRENCHES AND IN A MANNER TO PROTECT LINES, SANITARY SEWERS OR STRUCTURES FROM UNUSUAL STRESSES.
6. CONTRACTOR SHALL PROVIDE FOR THE FLOW OF ALL SANITARY SEWERS OR DRAINS INTERRUPTED DURING THE PROGRESS OF THE WORK AND SHALL RESTORE SAME TO A PRECONSTRUCTION CONDITION.
7. AT THE START OF CONSTRUCTION CONTRACTOR SHALL INSTALL AN AIR PLUG IN THE FIRST PIPE LAID OUT OF THE ENTRANCE MANHOLE AND IN THE DOWNGRADE SIDE OF THE FIRST NEWLY INSTALLED MANHOLE. SAID PLUGS SHALL REMAIN IN PLACE UNTIL FINAL INSPECTION AND APPROVAL IS GIVEN BY DCDWM. CONTRACTOR MUST EXERCISE EXTREME CAUTION TO ENSURE PLUGS ARE NOT LOST INTO THE GRAVITY SANITARY SEWER SYSTEM.
8. THE CONTRACTOR MUST COMPLY WITH ALL REQUIREMENTS OF THE DEKALB COUNTY SOIL EROSION AND SEDIMENT CONTROL ORDINANCE, THE PROVISIONS OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL N GEORGIA," AND ANY SPECIAL CONDITION REQUIRED BY THE EPD ASSOCIATED WITH ANY VARIANCES ISSUED BY THE SAME, AND ANY SPECIAL CONDITIONS REQUIRED BY THE DCDWM INSPECTOR.
9. GRAVITY SEWER LINE MATERIAL SHALL BE PVC (SDR35) OR DIP (CLASS 350).
10. ALL SANITARY SEWERS PIPE AND FITTINGS SHALL BE MARKED IN ACCORDANCE WITH THE LATEST ASTM/ANSI DESIGNATIONS. PIPE MARKINGS SHALL APPEAR AT INTERVALS OF FIVE (5) FEET OR LESS ON PIPE BARREL.
11. REFER TO DCDWM STANDARD MANUAL FOR ACCEPTABLE MATERIAL CLASSIFICATIONS.
12. MANHOLES SHALL BE PRECAST REINFORCED CONCRETE CONSTRUCTION MADE IN CONFORMANCE WITH THE LATEST EDITION OF ANSI/ASTM C478. THE MINIMUM WALL THICKNESS FOR A FOUR FOOT DIAMETER MANHOLE IS FIVE INCHES.
13. ALL EXCAVATION SHALL BE OPEN CUT UNLESS OTHERWISE INDICATED ON THE APPROVED DESIGN OR DIRECTED BY DCDWM. EXCAVATION BELOW TOPSOIL MAY BE PERFORMED BY MACHINE, BUT SHALL BE SUPPLEMENTED BY SUCH HAND DRESSING OR LEVELING AS MAY BE REQUIRED TO CONFORM TO THE LINES AND GRADES AS GIVEN BY DCDWM. REFER TO DCDWM TRENCH DETAIL IN CONSTRUCTION DETAILS.
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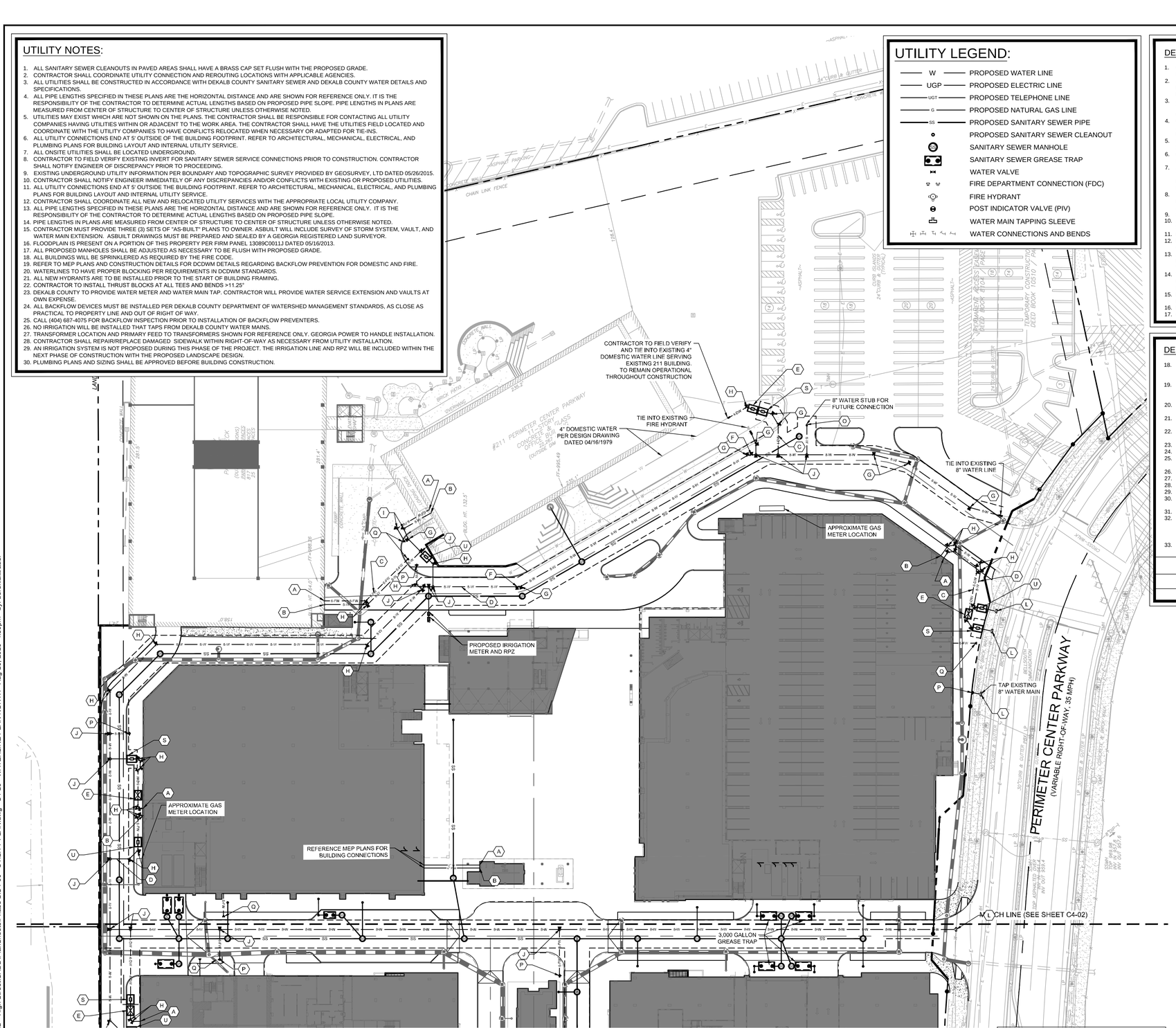
16. BEDDING MATERIAL SHALL BE IN ACCORDANCE WITH GDOT STANDARD SPECIFICATION SECTION 812, TYPE II FOUNDATION BACKFILL.
17. CONTRACTOR TO REFER TO DCDWM GRAVITY SANITARY SEWER DESIGN STANDARDS FOR INSTALLATION OF ALL SANITARY SEWER.

DEKALB COUNTY SEWER NOTES (CONTINUED):

18. ALL DESIGN AND CONSTRUCTION FOR WATER, SEWER, FIRE LINES, LIFT STATIONS AND BACKFLOW PREVENTION SHALL COMPLY WITH DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT DESIGN STANDARDS 2009 EDITION, VERSION 1.0. ACTUAL FIELD CONDITIONS MAY DICTATE MORE STRINGENT REQUIREMENTS IF DEEMED BY THE CONTRACTOR INSPECTOR.
19. DEVELOPER SHALL PROVIDE RECORD DRAWINGS "AS-BUILT PLANS" AND "FINAL PLATS" (IF APPLICABLE) IN HARD COPY AND ELECTRONIC FORMAT, AS WELL AS, RECORD ALL EASEMENTS THAT WILL BE DEDICATED TO DEKALB COUNTY IN THE COURT HOUSE, PRIOR TO APPROVAL OF AS-BUILT PLANS.
20. FIELD CHANGES DURING CONSTRUCTION MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE COUNTY WATER & SEWER ENGINEER BEFORE CHANGES ARE IMPLEMENTED.
21. FOR PROJECTS WITHIN CITIES, DEVELOPER SHALL PROVIDE A MAINTENANCE BOND TO DEKALB COUNTY FOR WATERSHED UTILITIES PRIOR TO APPROVAL OF AS-BUILT PLANS.
22. CONTRACTOR MUST JET CLEAN AND TV SANITARY SEWER LINES AFTER CONNECTIONS ARE MADE TO THE EXISTING TIE-IN POINTS. TRACER WIRE TO BE INSTALLED FOR PVC PIPES.
23. CALL (404) 371-4918 FOR FEE CALCULATIONS OR ANY QUESTIONS.
24. PROVIDE EASEMENT PLAT & DEED FOR ALL SANITARY SEWER AND WATER EASEMENTS. (AFTER CONSTRUCTION AND WITH AS-BUILTS).
25. CONTRACTOR MUST NOTIFY THE WATER & SEWER CONSTRUCTION INSPECTOR AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
26. TO PURCHASE A COPY OF THE DESIGN STANDARDS, PLEASE CALL (770) 621-7272
27. FIRE LINES, F.O.G., BACKFLOW PREVENTION, AND LIFT STATIONS REQUIRE A SEPARATE REVIEW.
28. F.O.G. COMPLIANCE (GREASE TRAP) REVIEW & APPROVAL REQUIRED- CALL (404) 687-7150 OR (404) 687-7157.
29. PROJECTS INVOLVING CONSTRUCTION OF TOWN HOMES AND/OR CONDOMINIUMS ARE REQUIRED TO HAVE INDIVIDUAL METERS FOR EACH UNIT.
30. POTABLE WATER MAIN SHALL MAINTAIN A TEN (10') FOOT HORIZONTAL AND EIGHTEEN (18") INCH VERTICAL CLEARANCE FROM NON-POTABLE PIPELINES.
31. THRUST BLOCKS ARE REQUIRED WHEREVER PIPE CHANGES DIRECTION (TEES, BENDS, ETC.).
32. WATER&SEWER ACCESS FEES NEED TO BE PAID UNDER THE FOLLOWING CIRCUMSTANCES.
    NEW CONSTRUCTION, RE-DEVELOPMENT, ADDITIONS, CHANGE OF USE, ETC. THESE FEES ARE TO BE PAID AT 330 W. PONCE DE LEON AVE, 2ND FLOOR. FAILURE TO SETTLE THESE FEES WILL RESULT IN DELAYS FOR OBTAINING WATER & SEWER PLAN APPROVAL., AS WELL AS CERTIFICATE OF OCCUPANCY/COMPLETION. CALL (404) 371-4918 FOR FEE CALCULATIONS OR ANY QUESTIONS.
33. CONTRACTOR MUST NOTIFY WATER & SEWER CONSTRUCTION INSPECTOR AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.

DISTRICT	15	16	18 (WEST)	18 (EAST)
INSPECTOR	L. KELLEY	D. O'BRIEN	M. MCGUIRE	M. DENIS
PHONE	(404) 371-2149	(404) 687-4050	(404) 687-4060	(404) 371-2110



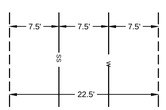
PROPOSED WATER:

- 9 FHS
- 2,800 LF OF 8" DIP
- 600 LF OF 6" DIP
- 250 LF OF 4" DIP
- 160 LF OF 2" DIP

WATER PROJECT DESCRIPTION:

THERE WILL BE ONE FDC FOR EACH INSTANCE IN WHICH A FIRE WATER LINE ENTERS A BUILDING. EIGHT FIRE HYDRANTS PROPOSED ARE ON SITE. EIGHT TAPS ONTO THE 8" DIP MAIN ON PERIMETER CENTER PARKWAY WILL BE MADE TO FEED THE PROPOSED FIRE AND DOMESTIC WATER INFRASTRUCTURE IN AND AROUND THE SITE. ALL ADDITIONS, INSTALLATIONS AND CHANGES TO EXISTING SANITARY SEWER INFRASTRUCTURE MUST COMPLY WITH DEKALB COUNTY STANDARDS.

TYPICAL UTILITY EASEMENT DETAIL:



WATER KEYNOTE LEGEND:

A	DOMESTIC WATER CONNECTION FROM BUILDING. REFERENCE MEP PLANS FOR CONTINUATION.
B	FIRELINE CONNECTION FROM BUILDING. REFERENCE MEP PLANS FOR CONTINUATION.
C	D.I.P. PRESSURE CLASS 350 DOMESTIC WATER LINE
D	D.I.P. PRESSURE CLASS 350 FIRE WATER LINE
E	RPZ BACKFLOW PREVENTER IN ABOVE GROUND HOT BOX
F	11.25° BEND (WITH THRUST BLOCK)
G	22.50° BEND (WITH THRUST BLOCK)
H	45° BEND (WITH THRUST BLOCK)
I	90° BEND (WITH THRUST BLOCK)
J	TEE (WITH THRUST BLOCK)
K	CROSS (WITH THRUST BLOCK)
L	TAPPING SLEEVE & VALVE (TS&V)
M	GATE VALVE
N	BUTTERFLY VALVE
O	DEADMAN (WITH THRUST BLOCK)
P	FIRE HYDRANT ASSEMBLY
Q	FIRE DEPARTMENT CONNECTION (FDC)
R	POST INDICATOR VALVE (PIV)
S	DOMESTIC WATER METER (VAULT)
T	DETECTOR CHECK VALVE ASSEMBLY (DCVA)
U	FIRE DOULE DETECTOR CHECK VALVE ASSEMBLY VAULT (DDCVA)

NORTH

GEORGIA811. Utility Protection Center, Inc. Know what's below. Call before you dig.

GRAPHIC SCALE IN FEET
0 20 40 80

PREPARED BY
Kimley»Horn
© 2019 KIMLEY-HORN AND ASSOCIATES, INC.
11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
PHONE: (770) 645-4500
WWW.KIMLEY-HORN.COM

PREPARED FOR
HIGH STREET DEVELOPMENT LLC
125 HIGH STREET, HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110
PHONE: (617) 854-6641

No.	ISSUANCE AND REVISION DESCRIPTION	DATE	BY

PROJECT
HIGH STREET - PHASE 1
211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND DRIVE, DUNWOODY, GA 30346
LAND LOT 348, 18TH DISTRICT

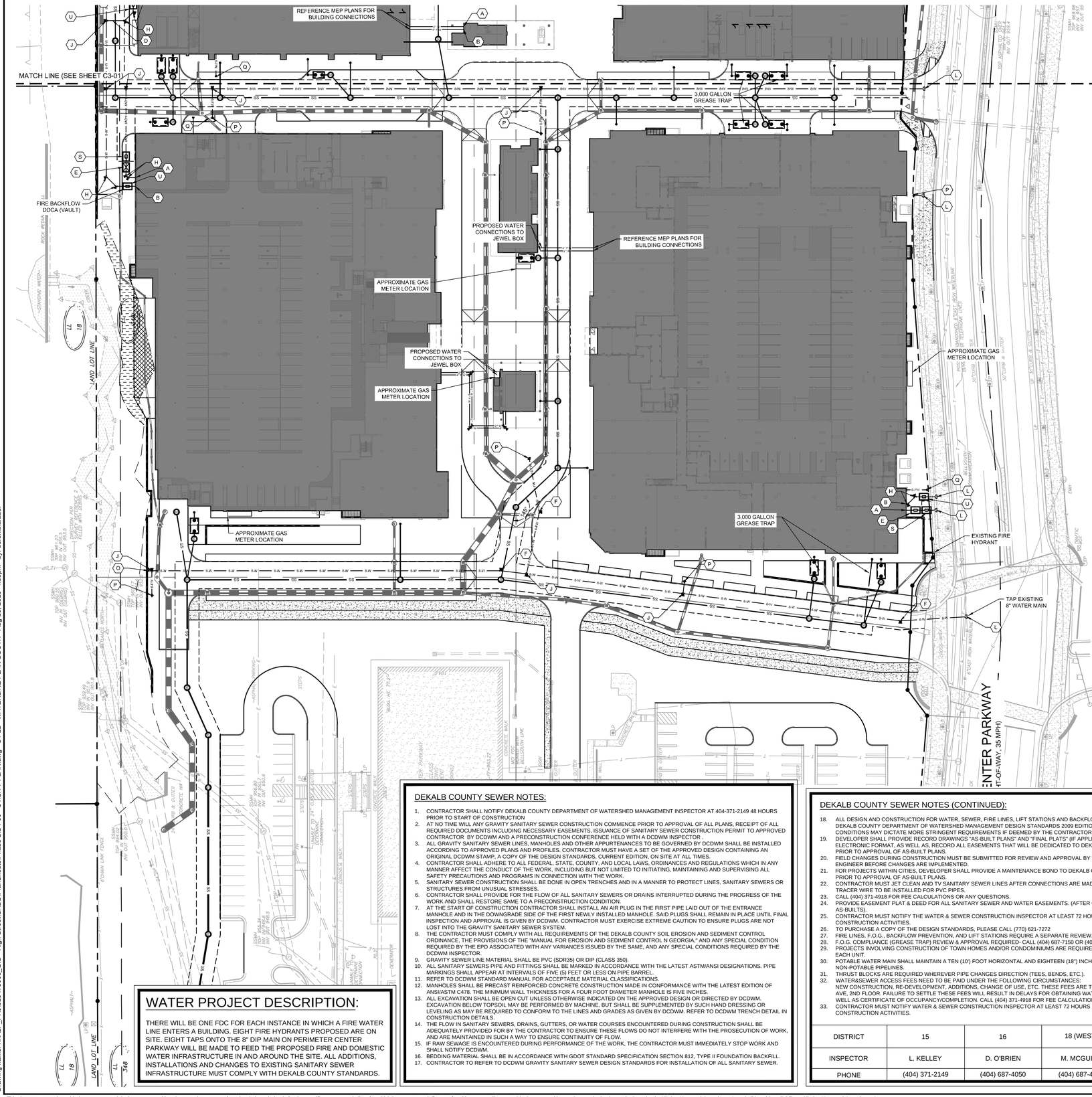
GEORGIA REGISTERED No. PE024130 PROFESSIONAL ENGINEER DEREK M. ZITTRAUER

GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

TITLE
WATERLINE PLAN NORTH

SHEET NUMBER
C4-10

Drawing name: K:\ALP_PRJ\019473000_GID - High Street\CADD\PlanSheets\Phase 1\C4-00 - UTILITY PLAN.dwg C4-10 - WATERLINE PLAN NORTH Aug 16, 2019 4:59pm by: derek.zittrauer



UTILITY NOTES:

1. ALL SANITARY SEWER CLEANOUTS IN PAVED AREAS SHALL HAVE A BRASS CAP SET FLUSH WITH THE PROPOSED GRADE.
2. CONTRACTOR SHALL COORDINATE UTILITY CONNECTION AND REROUTING LOCATIONS WITH APPLICABLE AGENCIES.
3. ALL UTILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH DEKALB COUNTY SANITARY SEWER AND DEKALB COUNTY WATER DETAILS AND SPECIFICATIONS.
4. ALL PIPE LENGTHS SPECIFIED IN THESE PLANS ARE THE HORIZONTAL DISTANCE AND ARE SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL LENGTHS BASED ON PROPOSED PIPE SLOPE. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
5. UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES HAVING UTILITIES WITHIN OR ADJACENT TO THE WORK AREA. THE CONTRACTOR SHALL HAVE THE UTILITIES FIELD LOCATED AND COORDINATE WITH THE UTILITY COMPANIES TO HAVE CONFLICTS RELOCATED WHEN NECESSARY OR ADAPTED FOR TIE-INS.
6. ALL UTILITY CONNECTIONS END AT 5' OUTSIDE OF THE BUILDING FOOTPRINT. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING PLANS FOR BUILDING LAYOUT AND INTERNAL UTILITY SERVICE.
7. ALL ONSITE UTILITIES SHALL BE LOCATED UNDERGROUND.
8. CONTRACTOR TO FIELD VERIFY EXISTING INVERT FOR SANITARY SEWER SERVICE CONNECTIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCY PRIOR TO PROCEEDING.
9. EXISTING UNDERGROUND UTILITY INFORMATION PER BOUNDARY AND TOPOGRAPHIC SURVEY PROVIDED BY GEOSURVEY, LTD DATED 05/26/2015.
10. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES AND/OR CONFLICTS WITH EXISTING OR PROPOSED UTILITIES.
11. ALL UTILITY CONNECTIONS END AT 5' OUTSIDE THE BUILDING FOOTPRINT. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING PLANS FOR BUILDING LAYOUT AND INTERNAL UTILITY SERVICE.
12. CONTRACTOR SHALL COORDINATE ALL NEW AND RELOCATED UTILITY SERVICES WITH THE APPROPRIATE LOCAL UTILITY COMPANY.
13. ALL PIPE LENGTHS SPECIFIED IN THESE PLANS ARE THE HORIZONTAL DISTANCE AND ARE SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL LENGTHS BASED ON PROPOSED PIPE SLOPE.
14. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
15. CONTRACTOR MUST PROVIDE THREE (3) SETS OF "AS-BUILT" PLANS TO OWNER. ASBUILT WILL INCLUDE SURVEY OF STORM SYSTEM, VAULT, AND WATER MAIN EXTENSION. ASBUILT DRAWINGS MUST BE PREPARED AND SEALED BY A GEORGIA REGISTERED LAND SURVEYOR.
16. FLOODPLAIN IS PRESENT ON A PORTION OF THIS PROPERTY PER FIRM PANEL 13089C0011J DATED 05/16/2013.
17. ALL PROPOSED MANHOLES SHALL BE ADJUSTED AS NECESSARY TO BE FLUSH WITH PROPOSED GRADE.
18. ALL BUILDINGS WILL BE SPRINKLERED AS REQUIRED BY THE FIRE CODE.
19. REFER TO MEP PLANS AND CONSTRUCTION DETAILS FOR DCDWM DETAILS REGARDING BACKFLOW PREVENTION FOR DOMESTIC AND FIRE.
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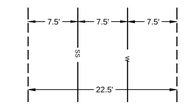

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- SANITARY SEWER MANHOLE
- SANITARY SEWER GREASE TRAP
- WATER VALVE
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- FIRE HYDRANT
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- WATER MAIN TAPPING SLEEVE
- WATER CONNECTIONS AND BENDS

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- (A) DOMESTIC WATER CONNECTION FROM BUILDING. REFERENCE MEP PLANS FOR CONTINUATION.
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17. CONTRACTOR TO REFER TO DCDWM GRAVITY SANITARY SEWER DESIGN STANDARDS FOR INSTALLATION OF ALL SANITARY SEWER.

DEKALB COUNTY SEWER NOTES (CONTINUED):

18. ALL DESIGN AND CONSTRUCTION FOR WATER, SEWER, FIRE LINES, LIFT STATIONS AND BACKFLOW PREVENTION SHALL COMPLY WITH DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT DESIGN STANDARDS 2009 EDITION, VERSION 1.0. ACTUAL FIELD CONDITIONS MAY DICTATE MORE STRINGENT REQUIREMENTS IF DEEMED BY THE CONTRACTOR INSPECTOR.
19. DEVELOPER SHALL PROVIDE RECORD DRAWINGS "AS-BUILT PLANS" AND "FINAL PLATS" (IF APPLICABLE) IN HARD COPY AND ELECTRONIC FORMAT, AS WELL AS, RECORD ALL EASEMENTS THAT WILL BE DEDICATED TO DEKALB COUNTY IN THE COURT HOUSE, PRIOR TO APPROVAL OF AS-BUILT PLANS.
20. FIELD CHANGES DURING CONSTRUCTION MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE COUNTY WATER & SEWER ENGINEER BEFORE CHANGES ARE IMPLEMENTED.
21. FOR PROJECTS WITHIN CITIES, DEVELOPER SHALL PROVIDE A MAINTENANCE BOND TO DEKALB COUNTY FOR WATERSHED UTILITIES PRIOR TO APPROVAL OF AS-BUILT PLANS.
22. CONTRACTOR MUST JET CLEAN AND TV SANITARY SEWER LINES AFTER CONNECTIONS ARE MADE TO THE EXISTING TIE-IN POINTS. TRACER WIRE TO BE INSTALLED FOR PVC PIPES.
23. CALL (404) 371-4918 FOR FEE CALCULATIONS OR ANY QUESTIONS.
24. PROVIDE EASEMENT PLAT & DEED FOR ALL SANITARY SEWER AND WATER EASEMENTS. (AFTER CONSTRUCTION AND WITH AS-BUILTS).
25. CONTRACTOR MUST NOTIFY THE WATER & SEWER CONSTRUCTION INSPECTOR AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
26. TO PURCHASE A COPY OF THE DESIGN STANDARDS, PLEASE CALL (770) 621-7272
27. FIRE LINES, F.O.G., BACKFLOW PREVENTION, AND LIFT STATIONS REQUIRE A SEPARATE REVIEW.
28. F.O.G. COMPLIANCE (GREASE TRAP) REVIEW & APPROVAL REQUIRED- CALL (404) 687-7150 OR (404) 687-7157.
29. PROJECTS INVOLVING CONSTRUCTION OF TOWN HOMES AND/OR CONDOMINIUMS ARE REQUIRED TO HAVE INDIVIDUAL METERS FOR EACH UNIT.
30. POTABLE WATER MAIN SHALL MAINTAIN A TEN (10') FOOT HORIZONTAL AND EIGHTEEN (18") INCH VERTICAL CLEARANCE FROM NON-POTABLE PIPELINES.
31. THRUST BLOCKS ARE REQUIRED WHEREVER PIPE CHANGES DIRECTION (TEES, BENDS, ETC.).
32. WATER&SEWER ACCESS FEES NEED TO BE PAID UNDER THE FOLLOWING CIRCUMSTANCES: NEW CONSTRUCTION, RE-DEVELOPMENT, ADDITIONS, CHANGE OF USE, ETC. THESE FEES ARE TO BE PAID AT 330 W. PONCE DE LEON AVE, 2ND FLOOR. FAILURE TO SETTLE THESE FEES WILL RESULT IN DELAYS FOR OBTAINING WATER & SEWER PLAN APPROVAL., AS WELL AS CERTIFICATE OF OCCUPANCY/COMPLETION. CALL (404) 371-4918 FOR FEE CALCULATIONS OR ANY QUESTIONS.
33. CONTRACTOR MUST NOTIFY WATER & SEWER CONSTRUCTION INSPECTOR AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.

DISTRICT	15	16	18 (WEST)	18 (EAST)
INSPECTOR	L. KELLEY	D. O'BRIEN	M. MCGUIRE	M. DENIS
PHONE	(404) 371-2149	(404) 687-4050	(404) 687-4060	(404) 371-2110

NORTH

GEORGIA811. Utilities Protection Center, Inc. Know what's below. Call before you dig.

GRAPHIC SCALE IN FEET
0 20 40 80

PREPARED BY
Kimley»Horn

11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
PHONE: (470) 435-6700
WWW.KIMLEY-HORN.COM

PREPARED FOR
HIGH STREET DEVELOPMENT LLC
125 HIGH STREET, HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110
PHONE: (617) 854-6641

No.	ISSUANCE AND REVISION DESCRIPTIONS	DATE	BY

PROJECT
HIGH STREET - PHASE 1
211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND DRIVE, SANDY SPRINGS, GA 30346
LAND LOT 348, 18TH DISTRICT

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE044139 MAREK M. ZITTRAUER

GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

TITLE
WATERLINE PLAN SOUTH

SHEET NUMBER
C4-11

Drawing name: K:\ALP_PRJ\019473000_GID - High Street\CADD\PlanSheets\Phase 1\C4-00 - UTILITY PLAN.dwg C4-11 - WATERLINE PLAN SOUTH Aug 16, 2019 - 4:59pm by: derek.zittrauer

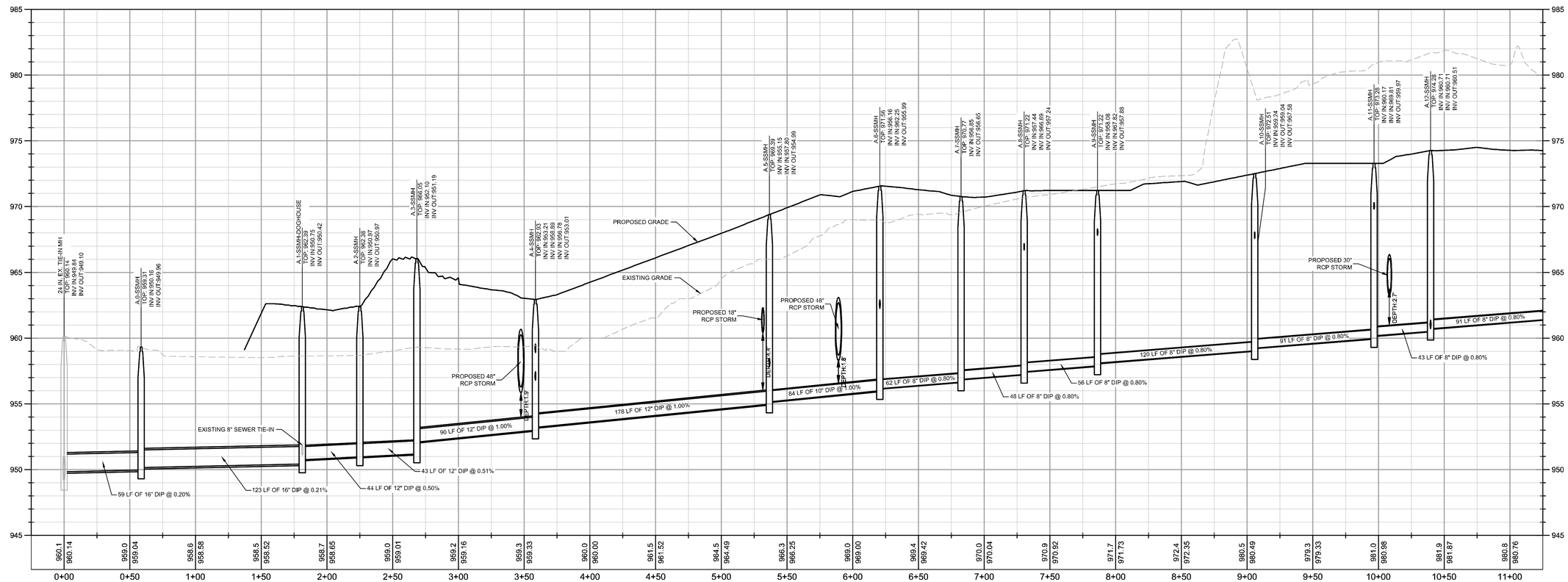
PROFILE LINE LEGEND:

PROPOSED GRADE LINE

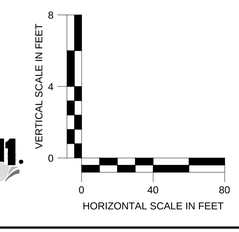
EXISTING GRADE LINE

SANITARY SEWER PROFILE NOTES:

1. ALL PIPE LENGTHS SPECIFIED IN THESE PLANS ARE THE HORIZONTAL DISTANCE AND ARE SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL LENGTHS BASED ON PROPOSED PIPE SLOPE. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO FIELD VERIFY EXISTING INVERT FOR SANITARY SEWER SERVICE CONNECTIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCY PRIOR TO PROCEEDING.
3. ALL SANITARY SEWER PIPE SHALL HAVE BEDDING PER BEDDING DETAILS IN CONSTRUCTION DETAIL SHEETS.
4. IF ANY CONFLICTS, DISCREPANCIES, OR ANY OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY AND SHALL NOT COMMENCE FURTHER OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED.



PROFILE VIEW
SSWR A.0-A.25
1" = 40' HORZ.
1" = 4' VERT.



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PREPARED BY
Kimley»Horn
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11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
PHONE: (770) 410-4500
WWW.KIMLEY-HORN.COM

PREPARED FOR
HIGH STREET DEVELOPMENT LLC
125 HIGH STREET, HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110
PHONE: (617) 854-6641

No.	ISSUANCE AND REVISION DESCRIPTIONS	DATE	BY

PROJECT
HIGH STREET - PHASE 1
211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND DRIVE, DUNWOODY, GA 30346
LAND LOT 348, 18TH DISTRICT

GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. PE044139
MAREK M. ZITTRAUER

GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

TITLE
SANITARY SEWER PROFILES

SHEET NUMBER
C4-50

Drawing name: K:\ALP_PRJ\019473000_GID - High Street\CADD\PlanSheets\Phase 1\C4-50 - SANITARY SEWER PROFILES.dwg C4-50 SANITARY SEWER PROFILES Aug 16, 2019 2:01pm by: russell.noah

PROFILE LINE LEGEND:

PROPOSED GRADE LINE

EXISTING GRADE LINE

SANITARY SEWER PROFILE NOTES:

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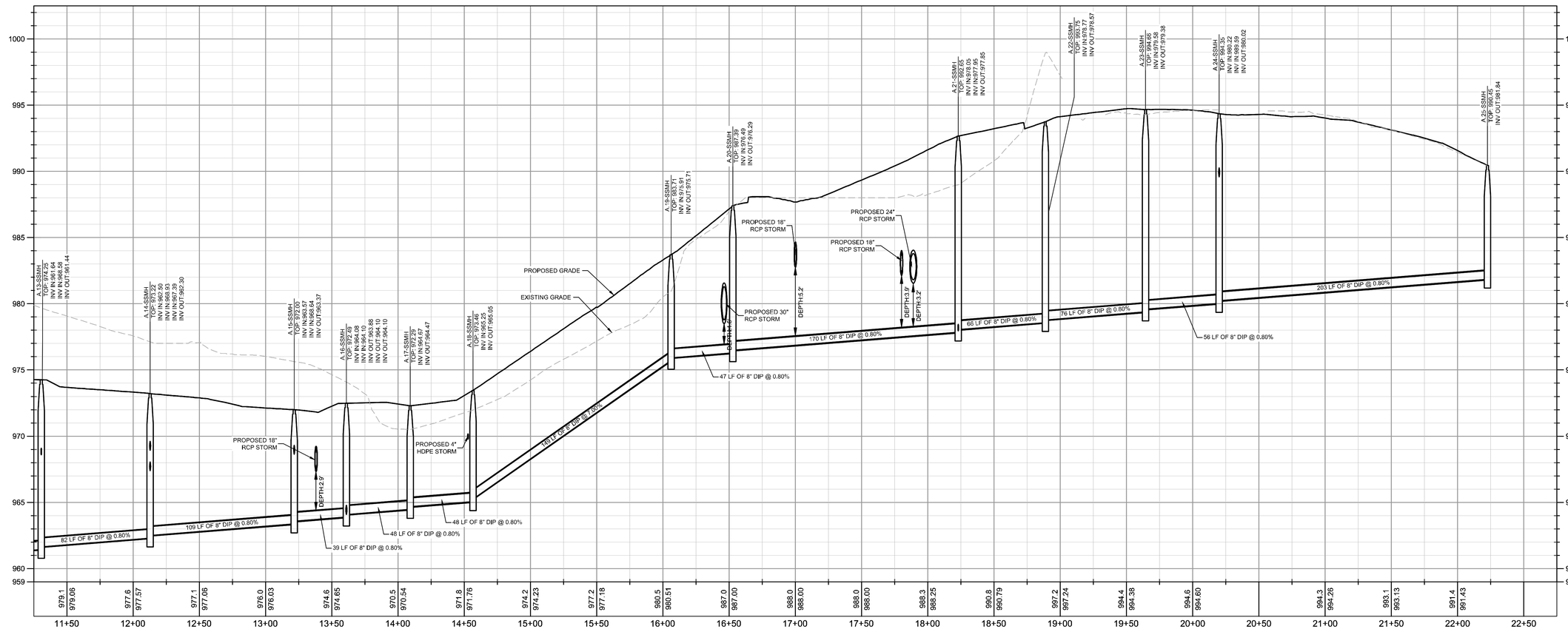
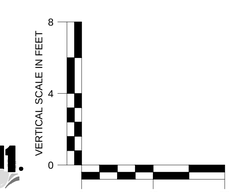


PROFILE VIEW

SSWR A.0-A.25

1" = 40' HORZ.

1" = 4' VERT.



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Kimley»Horn

11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
PHONE: (770) 619-4500
WWW.KIMLEY-HORN.COM

PREPARED FOR

HIGH STREET DEVELOPMENT LLC

125 HIGH STREET, HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110
PHONE: (617) 854-6641

NO.	ISSUANCE AND REVISION DESCRIPTIONS	DATE	BY

PROJECT

HIGH STREET - PHASE 1

211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND DRIVE, DUNWOODY, GA 30346
LAND LOT 348, 18TH DISTRICT

GEORGIA REGISTERED No. PE044139 PROFESSIONAL ENGINEER MAREK M. ZITTRAUER

GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

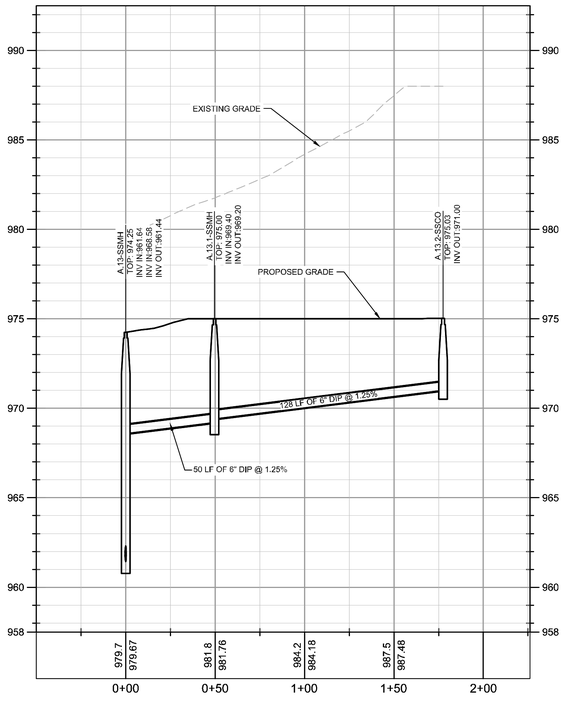
TITLE

SANITARY SEWER PROFILES

SHEET NUMBER

C4-51

Drawing name: K:\ALP_PRJ\019473000_CID - High Street\CADD\PlanSheets\Phase 1\C4-50 - SANITARY SEWER PROFILES.dwg C4-51 SANITARY SEWER PROFILES Aug 16, 2019 2:01pm by: russell.noah

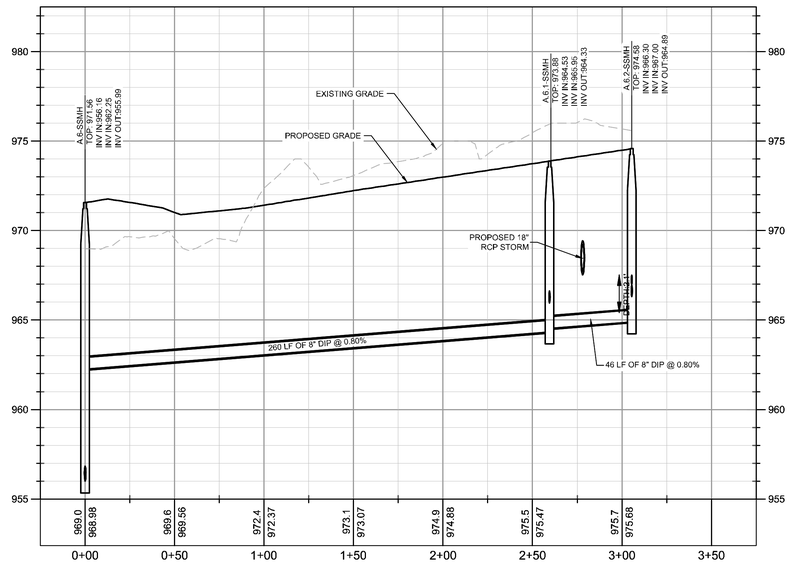


PROFILE VIEW

SSWR A.13-A.13.2

1" = 40' HORZ.

1" = 4' VERT.



PROFILE VIEW

SSWR A.6-A.6.2

1" = 40' HORZ.

1" = 4' VERT.

PROFILE LINE LEGEND:

PROPOSED GRADE LINE

EXISTING GRADE LINE

SANITARY SEWER PROFILE NOTES:

1. ALL PIPE LENGTHS SPECIFIED IN THESE PLANS ARE THE HORIZONTAL DISTANCE AND ARE SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL LENGTHS BASED ON PROPOSED PIPE SLOPE. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
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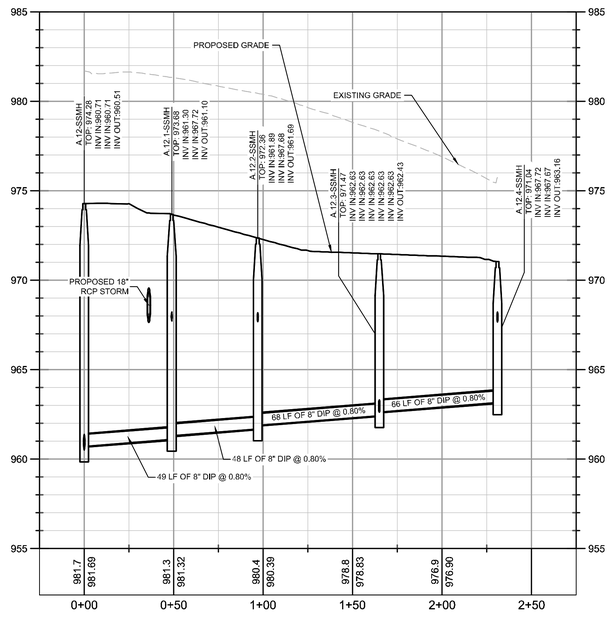
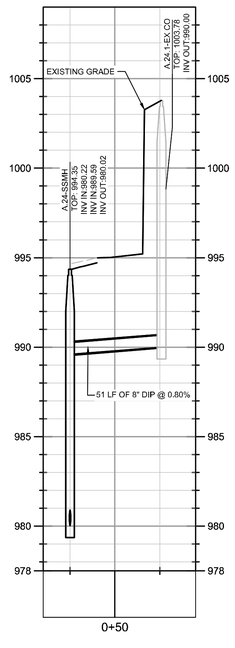


PROFILE VIEW

SSWR A.12-A.12.4

1" = 40' HORZ.

1" = 4' VERT.

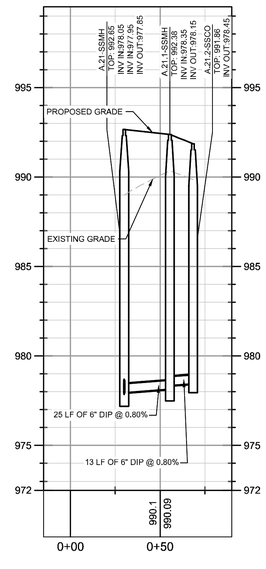


PROFILE VIEW

SSWR A.24-A.24.1

1" = 40' HORZ.

1" = 4' VERT.



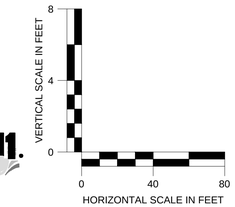
PROFILE VIEW

SSWR A.21-A.21.2

1" = 40' HORZ.

1" = 4' VERT.

GEORGIA811. Utility Protection Center, Inc. Know what's below. Call before you dig.



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Kimley»Horn
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11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
PHONE: (770) 619-4505
WWW.KIMLEY-HORN.COM

PREPARED FOR
HIGH STREET DEVELOPMENT LLC
125 HIGH STREET, HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110
PHONE: (617) 854-6641

No.	ISSUANCE AND REVISION DESCRIPTIONS	DATE	BY

PROJECT
HIGH STREET - PHASE 1
211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND DUNWOODY, GEORGIA 30346
LAND LOT 348, 18TH DISTRICT

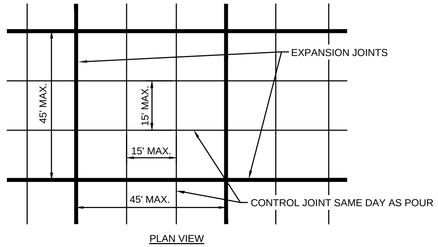
GEORGIA REGISTERED No. PE044139 PROFESSIONAL ENGINEER DEREK M. ZITTRAUER

GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

TITLE
SANITARY SEWER PROFILES

SHEET NUMBER
C4-52

Drawing name: K:\ALP_PRJ\019473000_GID - High Street\CADD\PlanSheets\Phase 1\C4-50 - SANITARY SEWER PROFILES.dwg C4-52 SANITARY SEWER PROFILES Aug 16, 2019 2:01pm by: russell.noah

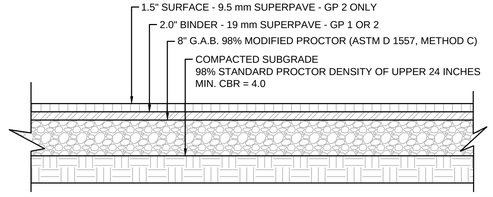


PLAN VIEW

NOTE: EXPANSION AND CONTROL JOINTS SHALL BE SPACED EQUALLY AND CENTERED WITHIN THE PAVEMENT AREA, WHICH MAY REQUIRE LESS THAN THE MAXIMUM ALLOWABLE

VEHICULAR CONC. PAVEMENT JOINT SPACING DETAIL

NOTES:
1. PRIME COAT TO BE PLACED BETWEEN GAB & ASPHALT UNIFORMLY AT A RATE OF 0.20 GAL/SY.
2. TACK COAT TO BE PLACED BETWEEN ASPHALT LAYERS UNIFORMLY AT A RATE OF 0.05 GAL/SY.
3. ALL ASPHALT MIXES TO INCLUDE HYDRATED LIME.
4. THE G.A.B. SHOULD BE OBTAINED FROM AN APPROVED GDOT SOURCE.
5. ALL ASPHALT MATERIAL AND PAVING OPERATIONS SHOULD MEET APPLICABLE SPECIFICATIONS OF THE ASPHALT INSTITUTE AND GEORGIA DEPARTMENT OF TRANSPORTATION.



HEAVY DUTY ASPHALT PAVEMENT SECTION

PAVING SECTION PER GEOTECH REPORT PREPARED BY TERRACON CONSULTANTS, INC. DATED 04/19/2018

NOTES:
1. PRIME COAT TO BE PLACED BETWEEN GAB & ASPHALT UNIFORMLY AT A RATE OF 0.20 GAL/SY.
2. TACK COAT TO BE PLACED BETWEEN ASPHALT LAYERS UNIFORMLY AT A RATE OF 0.05 GAL/SY.
3. ALL ASPHALT MIXES TO INCLUDE HYDRATED LIME.
4. THE G.A.B. SHOULD BE OBTAINED FROM AN APPROVED GDOT SOURCE.
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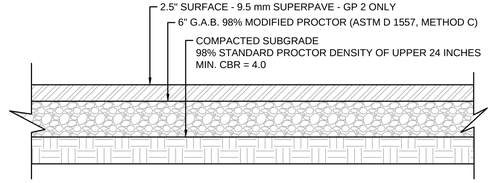
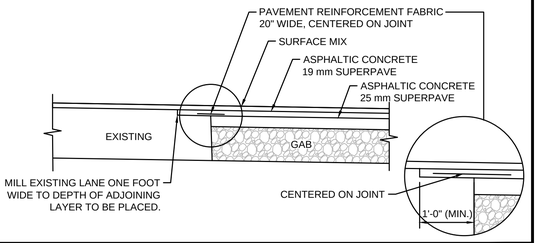


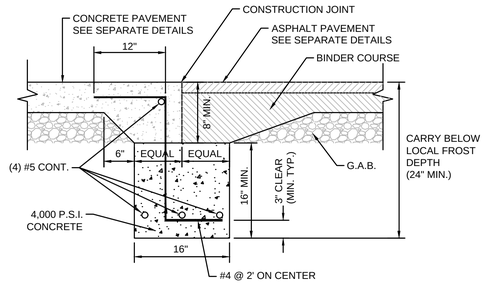
STANDARD DUTY ASPHALT PAVEMENT SECTION

PAVING SECTION PER GEOTECH REPORT PREPARED BY TERRACON CONSULTANTS, INC. DATED 04/19/2018

TYPICAL SECTION DETAIL TO BE USED WHEN EXISTING PAVEMENT IS TO BE RESURFACED WITH LESS THAN TWO INCHES OF ASPHALTIC CONCRETE

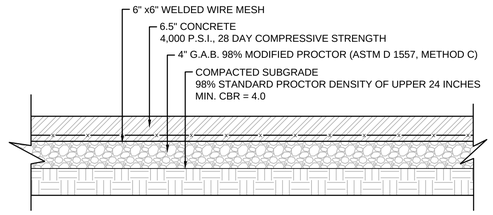


ASPHALT PAVEMENT KEY (<2") DETAIL



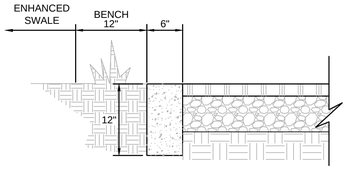
CONCRETE / ASPHALT JOINT DETAIL

NOTE: SEE SEPARATE JOINT SPACING DETAIL



HEAVY DUTY CONCRETE PAVEMENT SECTION

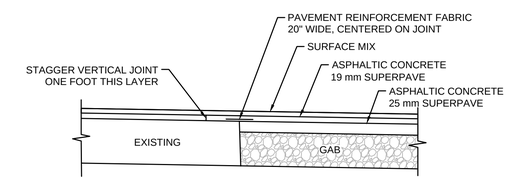
PAVING SECTION PER GEOTECH REPORT PREPARED BY TERRACON CONSULTANTS, INC. DATED 04/19/2018



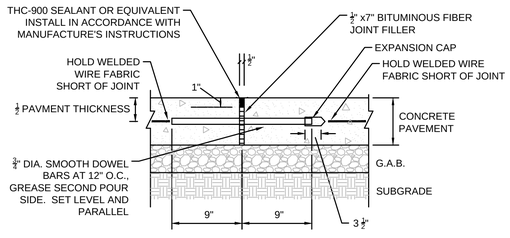
NOTES:
1. CONTRACTION JOINTS 10' O/C
2. EXPANSION JOINTS 100' O/C
3. ALL JOINTS SEALED
4. USE 4,000 P.S.I. CONCRETE

6" RIBBON CURB DETAIL

TYPICAL SECTION DETAIL TO BE USED WHEN EXISTING PAVEMENT IS TO BE RESURFACED WITH TWO INCHES OR MORE OF ASPHALTIC CONCRETE

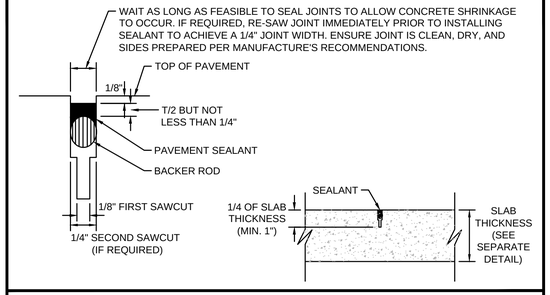


ASPHALT PAVEMENT KEY (>2") DETAIL

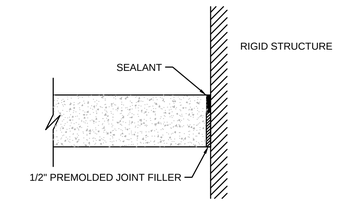


NOTE: SEE SEPARATE CONCRETE PAVEMENT SECTION FOR ADDITIONAL INFORMATION

CONCRETE EXPANSION JOINT DETAIL



CONCRETE CONTROL JOINT DETAIL



NOTE:
1. PROVIDE ISOLATION JOINT WHERE CONCRETE PAVEMENT ABUTS A RIGID STRUCTURE.

CONCRETE ISOLATION JOINT DETAIL

PREPARED BY
Kimley»Horn
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11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
PHONE: (770) 645-4540
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No.	ISSUANCE AND REVISION DESCRIPTIONS	DATE	BY

PROJECT
HIGH STREET - PHASE 1
211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND DRIVE, DUNWOODY, GA 30346
LAND LOT 346, 18TH DISTRICT

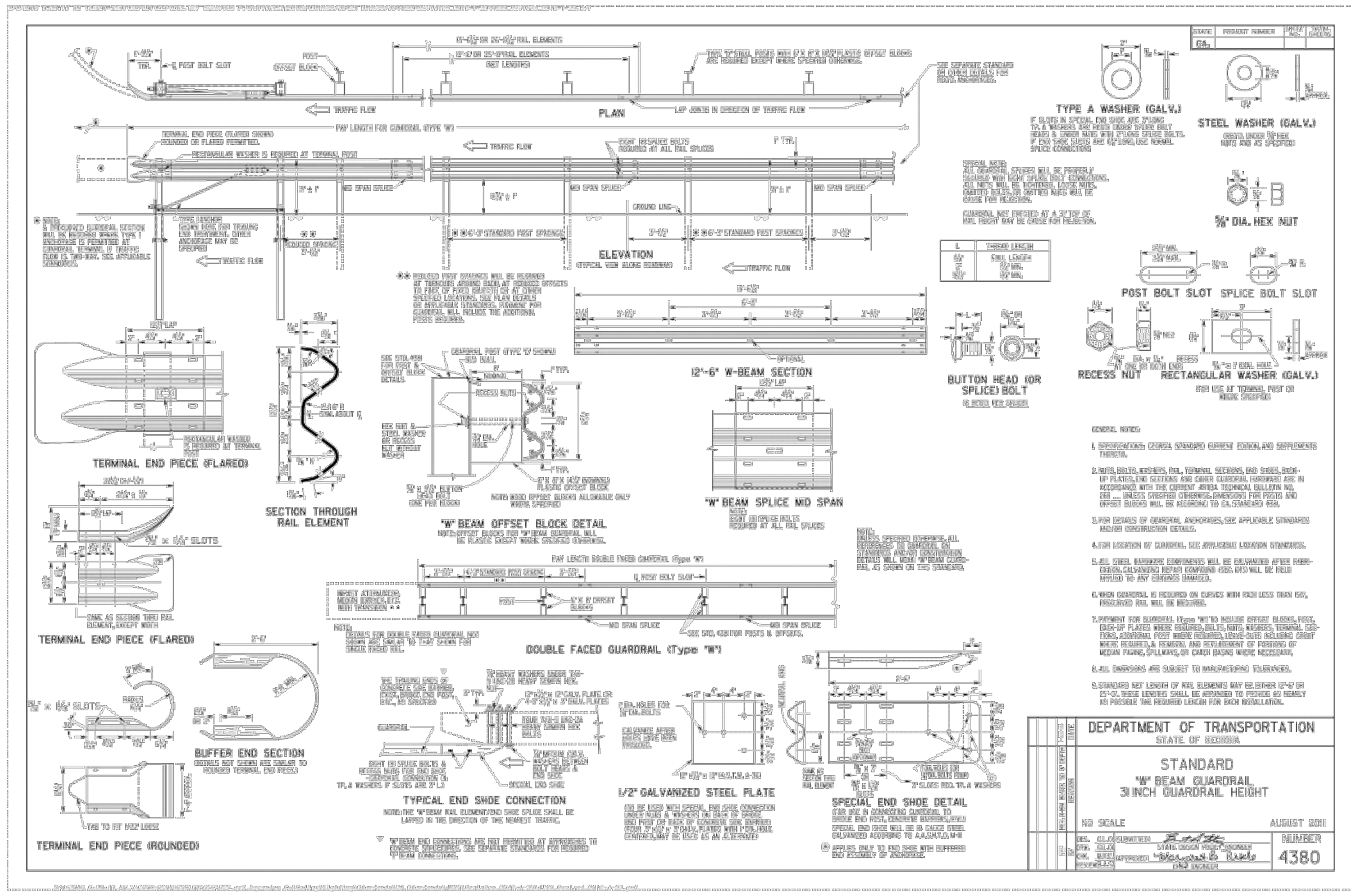
GEORGIA REGISTERED No. PE044139 PROFESSIONAL ENGINEER MAREK M. ZITTRAUER

GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

TITLE
VEHICULAR PAVEMENT DETAILS

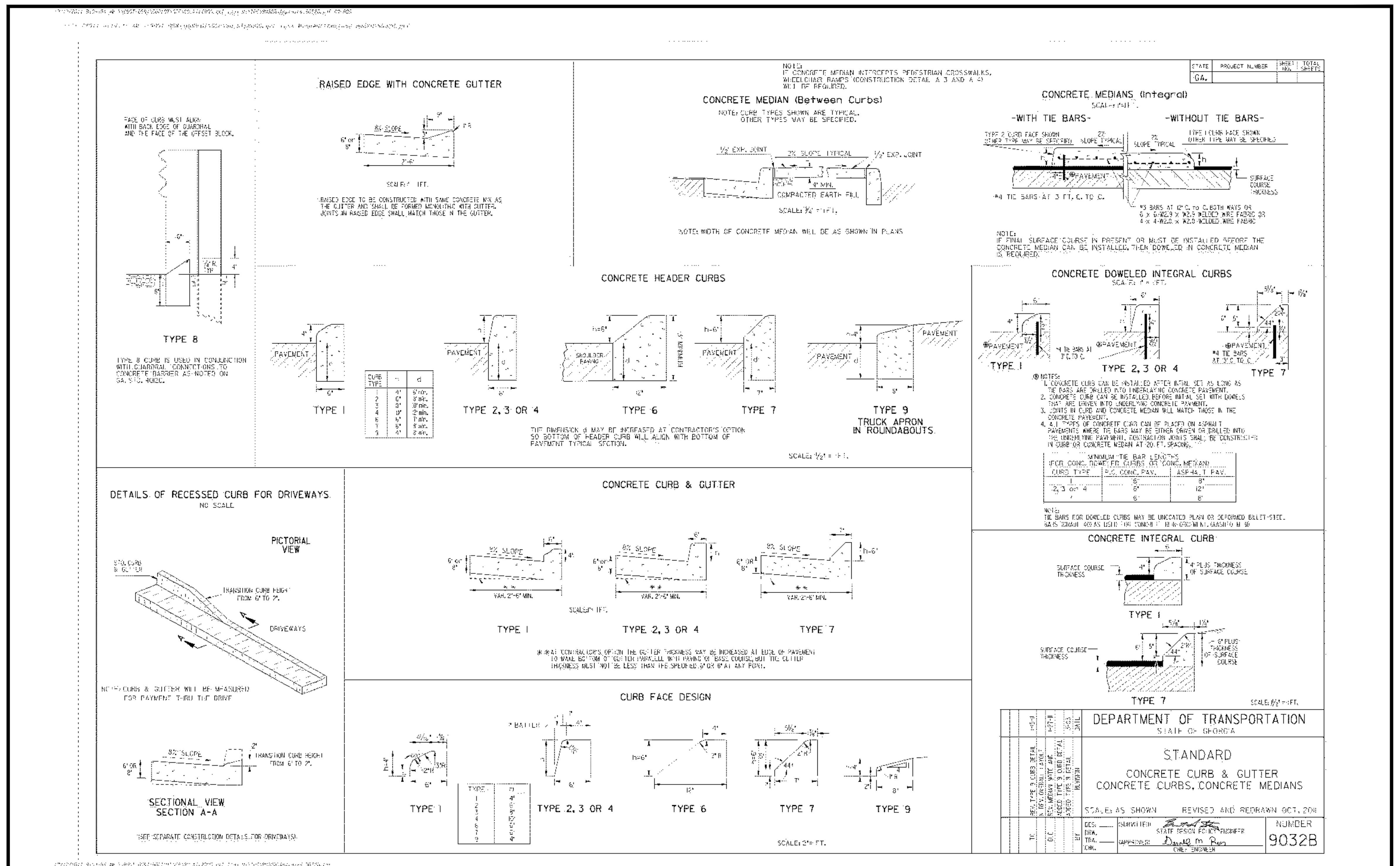
SHEET NUMBER
C6-00

Drawing name: K:\ALP_PRJ\019473000_GID - High Street\CADD\PlanSheets\Phase 1\C6-00 - VEHICULAR PAVEMENT DETAILS Aug 16, 2019 2:02pm by: russell.noah
C6-00 VEHICULAR PAVEMENT DETAILS.dwg



STANDARD GEORGIA D.O.T. #4380 "W" BEAM GUARDRAIL

Ga D.O.T. DETAIL #4380



STANDARD GEORGIA D.O.T. #9032B CONCRETE CURB AND GUTTER

Ga D.O.T. DETAIL #D49

Drawing name: K:\ALP_PRJ\019473000_GID - High Street\CADD\PlanSheets\Phase 1\C6-00 - VEHICULAR PAVEMENT DETAILS.dwg C6-01 VEHICULAR PAVEMENT DETAILS Aug 16, 2019 2:02pm by: russell.noah

PREPARED BY

Kimley»Horn

© 2019 KIMLEY-HORN AND ASSOCIATES, INC.
11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
PHONE (770) 619-4280
WWW.KIMLEY-HORN.COM

PREPARED FOR

HIGH STREET DEVELOPMENT LLC

125 HIGH STREET, HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110
PHONE: (617) 854-6641

No.	ISSUANCE AND REVISION DESCRIPTIONS	DATE	BY

PROJECT

HIGH STREET - PHASE 1

211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND DRIVE, DUNWOODY, GA 30346
LAND LOT 348, 18TH DISTRICT

GEORGIA REGISTERED No. PE044139 PROFESSIONAL ENGINEER DEREK M. ZITTRAUER

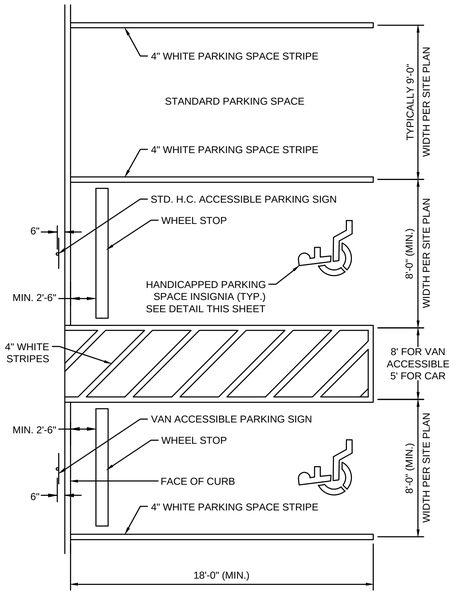
GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

TITLE

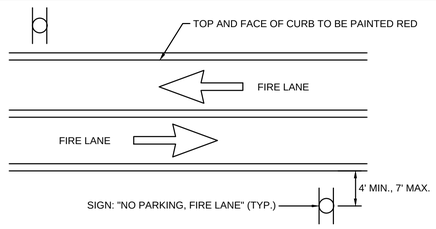
VEHICULAR PAVEMENT DETAILS

SHEET NUMBER

C6-01

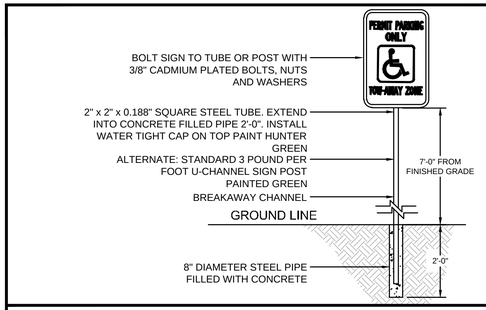


STANDARD ACCESSIBLE HANDICAP PARKING SPACE

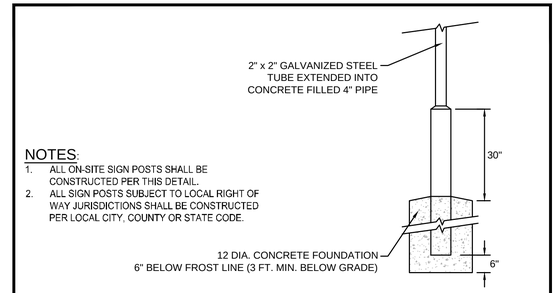


NOTES:
FIRE LANE SIGNS TO BE PLACED AT BEGINNING AND END OF FIRE LANE WITH SIGNS NO LESS THAN 100 FEET APART. BOTH SIDES OF SIGN SHALL READ: NO PARKING, FIRE LANE. LETTERS SHALL NOT BE LESS THAN 2 INCHES IN HEIGHT.

FIRE LANE DETAIL

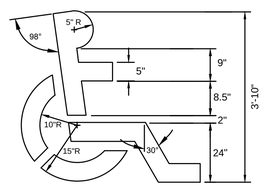


HANDICAP PARKING SIGN PLACEMENT DETAIL



NOTES:
1. ALL ON-SITE SIGN POSTS SHALL BE CONSTRUCTED PER THIS DETAIL.
2. ALL SIGN POSTS SUBJECT TO LOCAL RIGHT OF WAY JURISDICTIONS SHALL BE CONSTRUCTED PER LOCAL CITY, COUNTY OR STATE CODE.

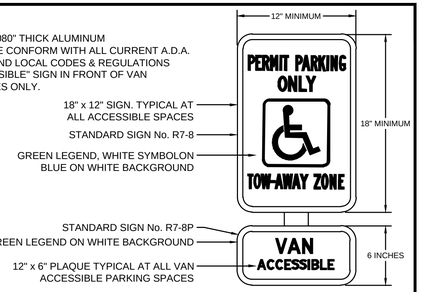
SIGN POST DETAIL



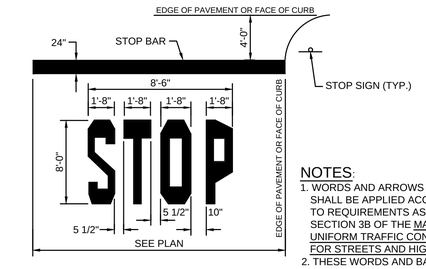
NOTE:
1. STRIPING - 5" WIDE TRAFFIC PAINT (WHITE ON A BLUE BACKGROUND)

HANDICAP PARKING INSIGNIA DETAIL

NOTES:
1. ALL SIGNS TO BE 0.080" THICK ALUMINUM
2. ALL SIGNS SHALL BE CONFORM WITH ALL CURRENT A.D.A. FEDERAL, STATE, AND LOCAL CODES & REGULATIONS
3. PLACE "VAN ACCESSIBLE" SIGN IN FRONT OF VAN ACCESSIBLE SPACES ONLY.

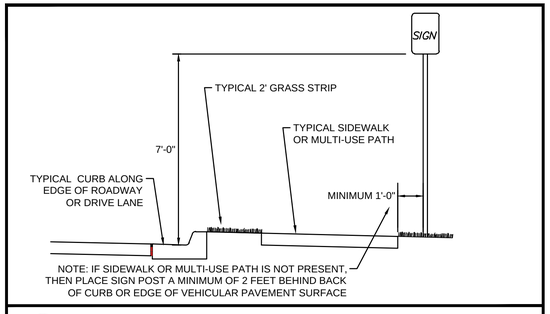


VAN ACCESSIBLE ADA SIGN DETAIL

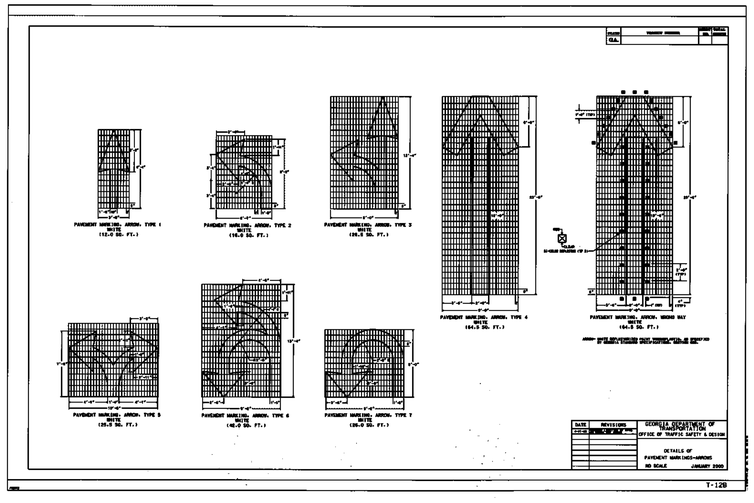


NOTES:
1. WORDS AND ARROWS FOR DRIVEWAYS SHALL BE APPLIED ACCORDING TO REQUIREMENTS AS OUTLINED IN SECTION 3B OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
2. THESE WORDS AND BAR ARE TO BE PAINTED REFLECTIVE WHITE.

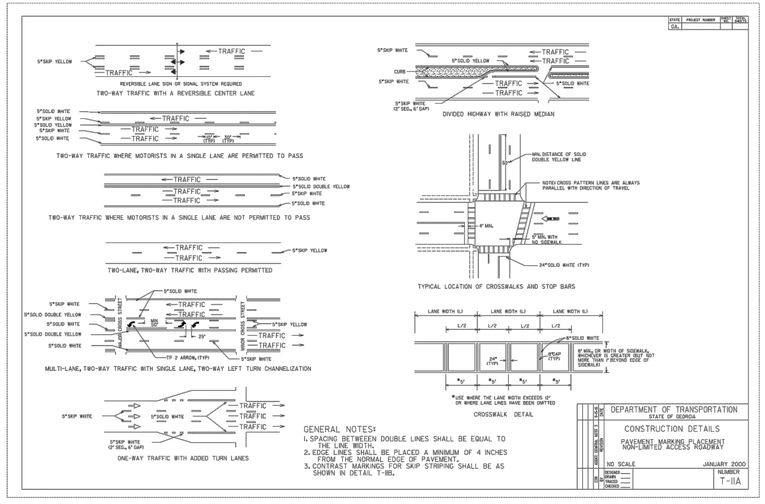
STOP BAR DETAIL



STD STREET SIGN PLACEMENT DETAIL



STANDARD GEORGIA D.O.T. PAVEMENT MARKING-ARROWS DETAIL
Ga D.O.T. DETAIL #T-12B



STANDARD GEORGIA D.O.T. PAVEMENT MARKING-ARROWS DETAIL
Ga D.O.T. DETAIL #T-12B

PREPARED BY
Kimley»Horn

11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
PHONE: (770) 619-4500
WWW.KIMLEY-HORN.COM

PREPARED FOR
HIGH STREET DEVELOPMENT LLC
125 HIGH STREET, HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110
PHONE: (617) 854-6641

NO.	ISSUANCE AND REVISION DESCRIPTIONS	DATE	BY

PROJECT
HIGH STREET - PHASE 1
211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND DRIVE, ATLANTA, GEORGIA 30346
LAND LOT 348, 18TH DISTRICT

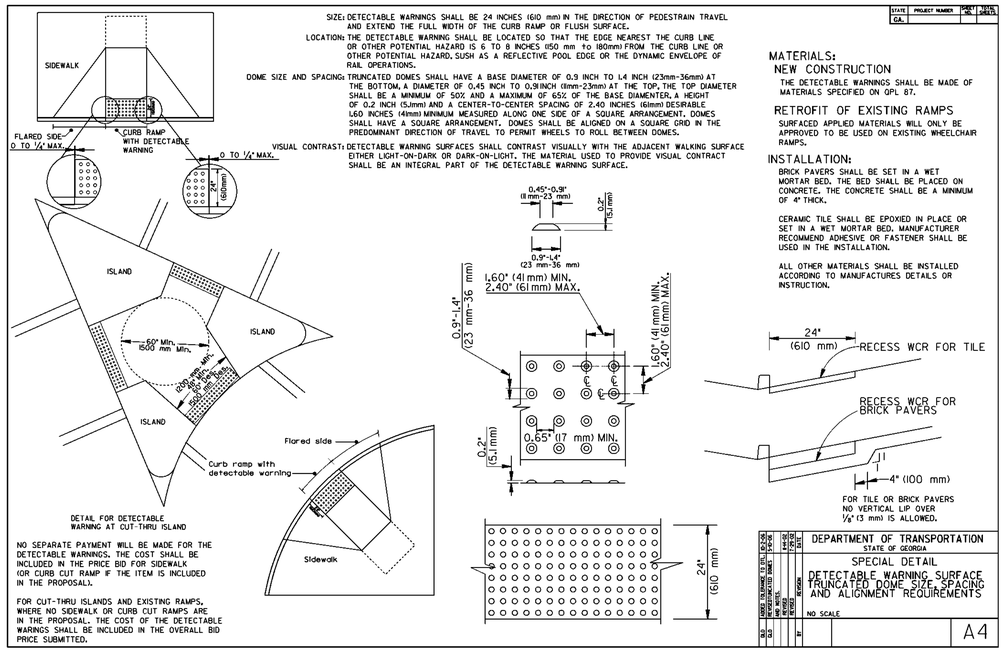
GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE044139 DATE 8/16/19 MAREK M. ZITTRAUER

GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

TITLE
SIGNAGE & STRIPING DETAILS

SHEET NUMBER
C6-10

Drawing name: K:\ALP_PRJ\019473000_GID - High Street\CADD\PlanSheets\Phase 1\C6-10 - SIGNAGE & STRIPING DETAILS.dwg C6-10 SIGNAGE & STRIPING DETAILS Aug 16, 2019 2:03pm by: russell.noah



DETAIL FOR DETECTABLE WARNING AT CUT-THRU ISLAND

NO SEPARATE PAYMENT WILL BE MADE FOR THE DETECTABLE WARNINGS. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR SIDEWALK (OR CURB CUT RAMP IF THE ITEM IS INCLUDED IN THE PROPOSAL).

FOR CUT-THRU ISLANDS AND EXISTING RAMPS, WHERE NO SIDEWALK OR CURB CUT RAMPS ARE IN THE PROPOSAL, THE COST OF THE DETECTABLE WARINGS SHALL BE INCLUDED IN THE OVERALL BID PRICE SUBMITTED.

SIZE: DETECTABLE WARNINGS SHALL BE 24 INCHES (610 mm) IN THE DIRECTION OF PEDESTRIAN TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.

LOCATION: THE DETECTABLE WARNING SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE OR OTHER POTENTIAL HAZARD IS 6 TO 8 INCHES (150 mm to 180mm) FROM THE CURB LINE OR OTHER POTENTIAL HAZARD, SUSH AS A REFLECTIVE POOL EDGE OR THE DYNAMIC ENVELOPE OF RAIL OPERATIONS.

DOME SIZE AND SPACING: TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9 INCH TO 1.4 INCH (23mm-36mm) AT THE BOTTOM, A DIAMETER OF 0.45 INCH TO 0.91INCH (11mm-23mm) AT THE TOP, THE TOP DIAMETER SHALL BE A MINIMUM OF 50% AND A MAXIMUM OF 65% OF THE BASE DIAMENTER, A HEIGHT OF 0.2 INCH (5.1mm) AND A CENTER-TO-CENTER SPACING OF 2.40 INCHES (61mm) DESIRABLE 1.60 INCHES (41mm) MINIMUM MEASURED ALONG ONE SIDE OF A SQUARE ARRANGEMENT. DOMES SHALL HAVE A SQUARE ARRANGEMENT, DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.

VISUAL CONTRAST: DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH THE ADJACENT WALKING SURFACE EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE VISUAL CONTRACT SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE.

MATERIALS:

NEW CONSTRUCTION

THE DETECTABLE WARNINGS SHALL BE MADE OF MATERIALS SPECIFIED ON OPL 87.

RETROFIT OF EXISTING RAMPS

SURFACED APPLIED MATERIALS WILL ONLY BE APPROVED TO BE USED ON EXISTING WHEELCHAIR RAMPS.

INSTALLATION:

BRICK PAVERS SHALL BE SET IN A WET MORTAR BED. THE BED SHALL BE PLACED ON CONCRETE. THE CONCRETE SHALL BE A MINIMUM OF 4" THICK.

CERAMIC TILE SHALL BE EPOXIED IN PLACE OR SET IN A WET MORTAR BED. MANUFACTURER RECOMMEND ADHESIVE OR FASTENER SHALL BE USED IN THE INSTALLATION.

ALL OTHER MATERIALS SHALL BE INSTALLED ACCORDING TO MANUFACTURES DETAILS OR INSTRUCTION.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

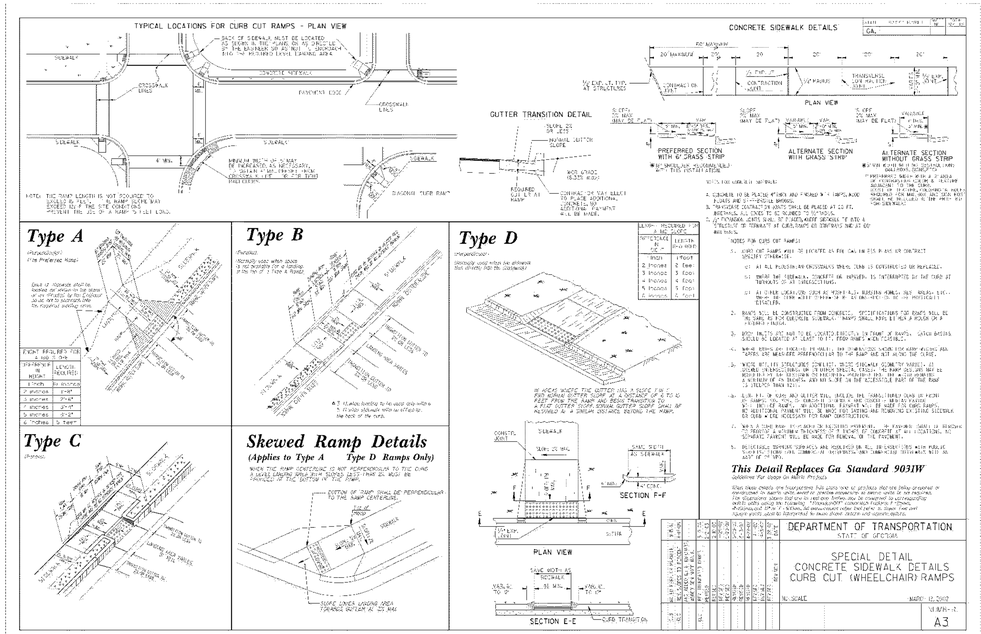
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL
DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE SPACING AND ALIGNMENT REQUIREMENTS

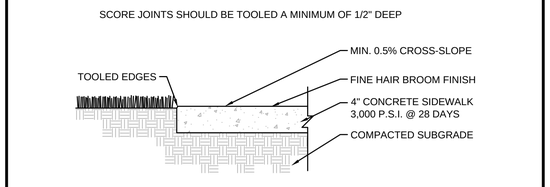
NO SCALE

A4

STANDARD GEORGIA D.O.T. DETECTABLE WARNING SURFACE DETAIL
Ga D.O.T. DETAIL #A4

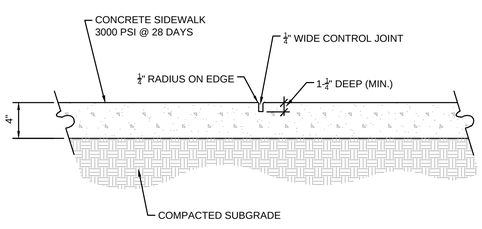


STANDARD GEORGIA D.O.T. #A3 SPECIAL SIDEWALK DETAILS
Ga D.O.T. DETAIL #A3

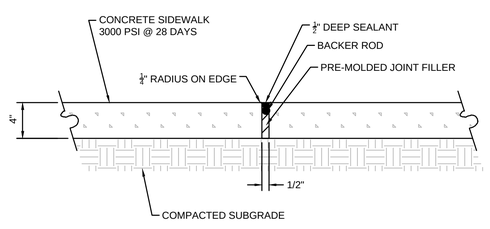


NOTES:
1. SCORING OF WALKS SHOULD OCCUR EVERY 5' OR AS DESIGNATED BY THE SITE PLAN. 1/2 X 4" ASPHALTIC EXPANSION JOINTS SHOULD BE PLACED EVERY 30'.
2. WHERE SIDEWALK MEETS CURB OR BUILDING 1/2 X 6" ASPHALTIC EXPANSION JOINT SHOULD BE USED.

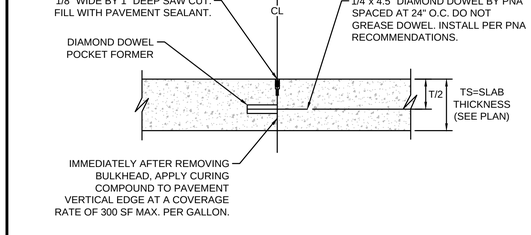
CONCRETE SIDEWALK DETAIL



CONCRETE SIDEWALK CONTROL JOINT DETAIL



CONCRETE SIDEWALK EXPANSION JOINT DETAIL



CONCRETE CONSTRUCTION JOINT DETAIL

Drawing name: K:\ALP_PRJ\019473000_GID - High Street\CADD\PlanSheets\Phase 1\C6-20 - HARDSCAPE DETAILS.dwg C6-20 HARDSCAPE DETAILS Aug 16, 2019 2:03pm by: russell.noah

PREPARED BY
Kimley»Horn

11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
770-619-4500
WWW.KIMLEY-HORN.COM

PREPARED FOR
HIGH STREET DEVELOPMENT LLC
125 HIGH STREET, HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110
PHONE: (617) 854-6641

No.	ISSUANCE AND REVISION DESCRIPTIONS	DATE	BY

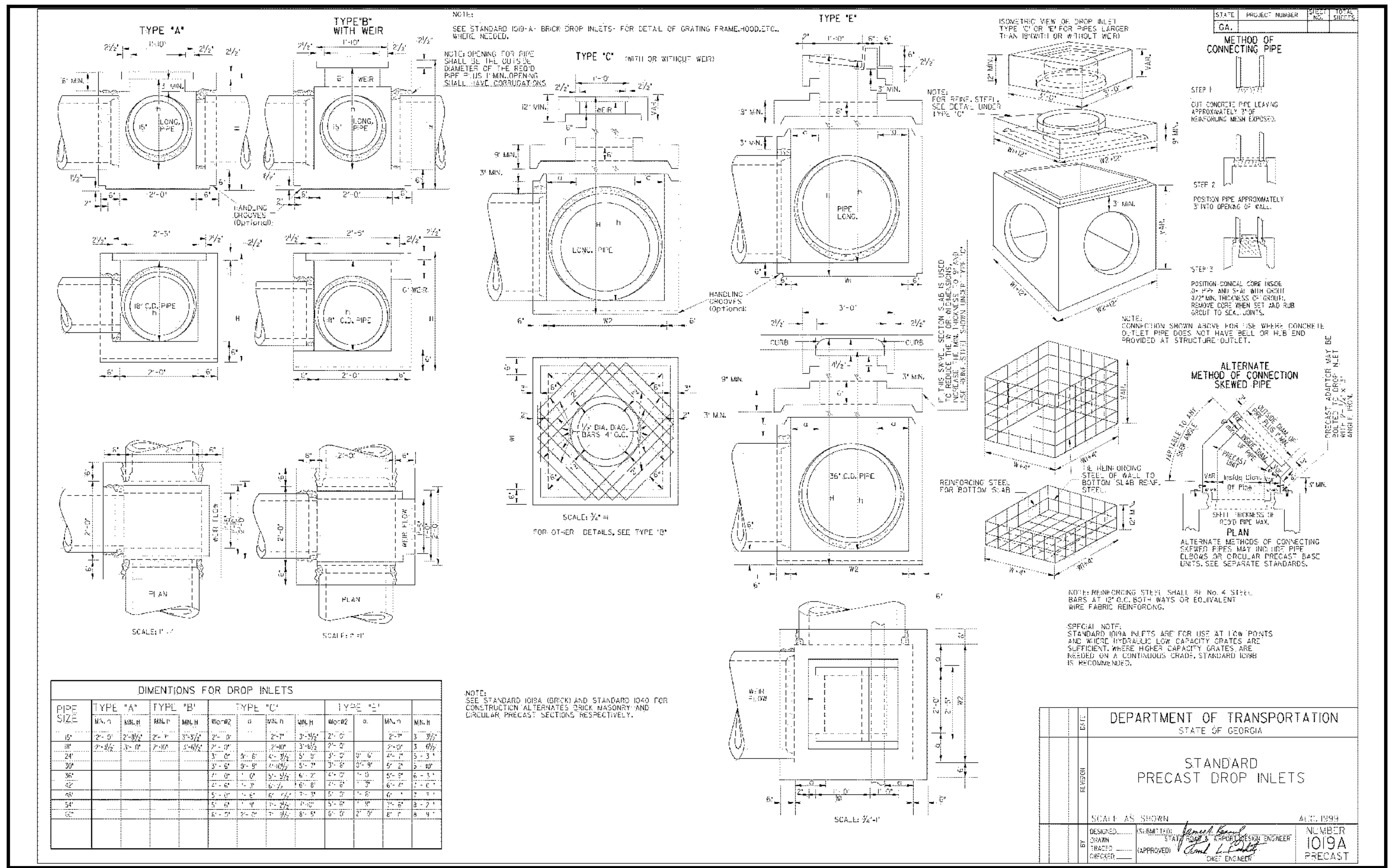
PROJECT
HIGH STREET - PHASE 1
211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND POINTE, DUNWOODY, GA 30346
LAND LOT 348, 18TH DISTRICT

GEORGIA REGISTERED No. PE044139 PROFESSIONAL 25/16/19 ENGINEER MAREK M. ZITTRAUER

GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

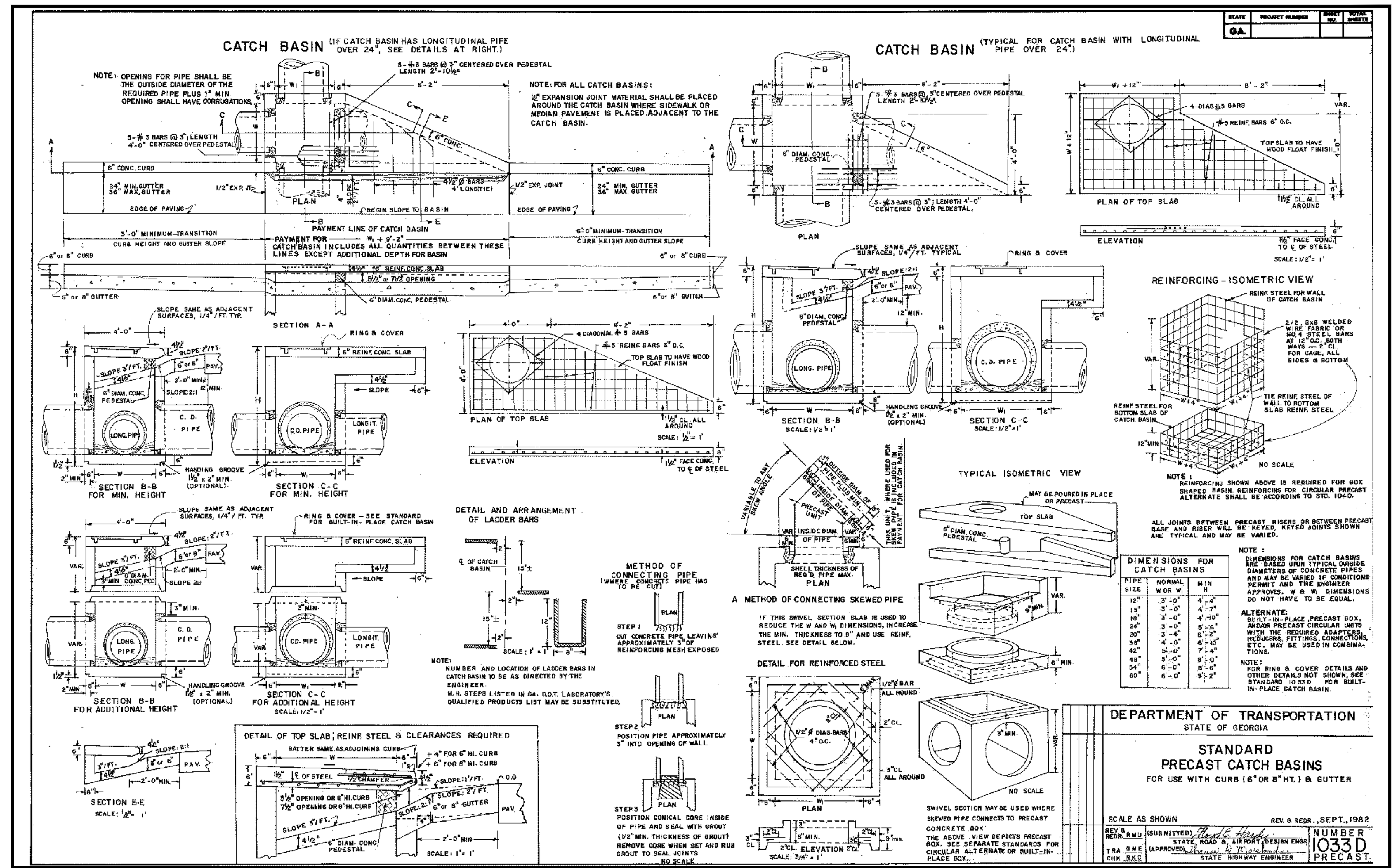
TITLE
CIVIL HARDSCAPE DETAILS

SHEET NUMBER
C6-20



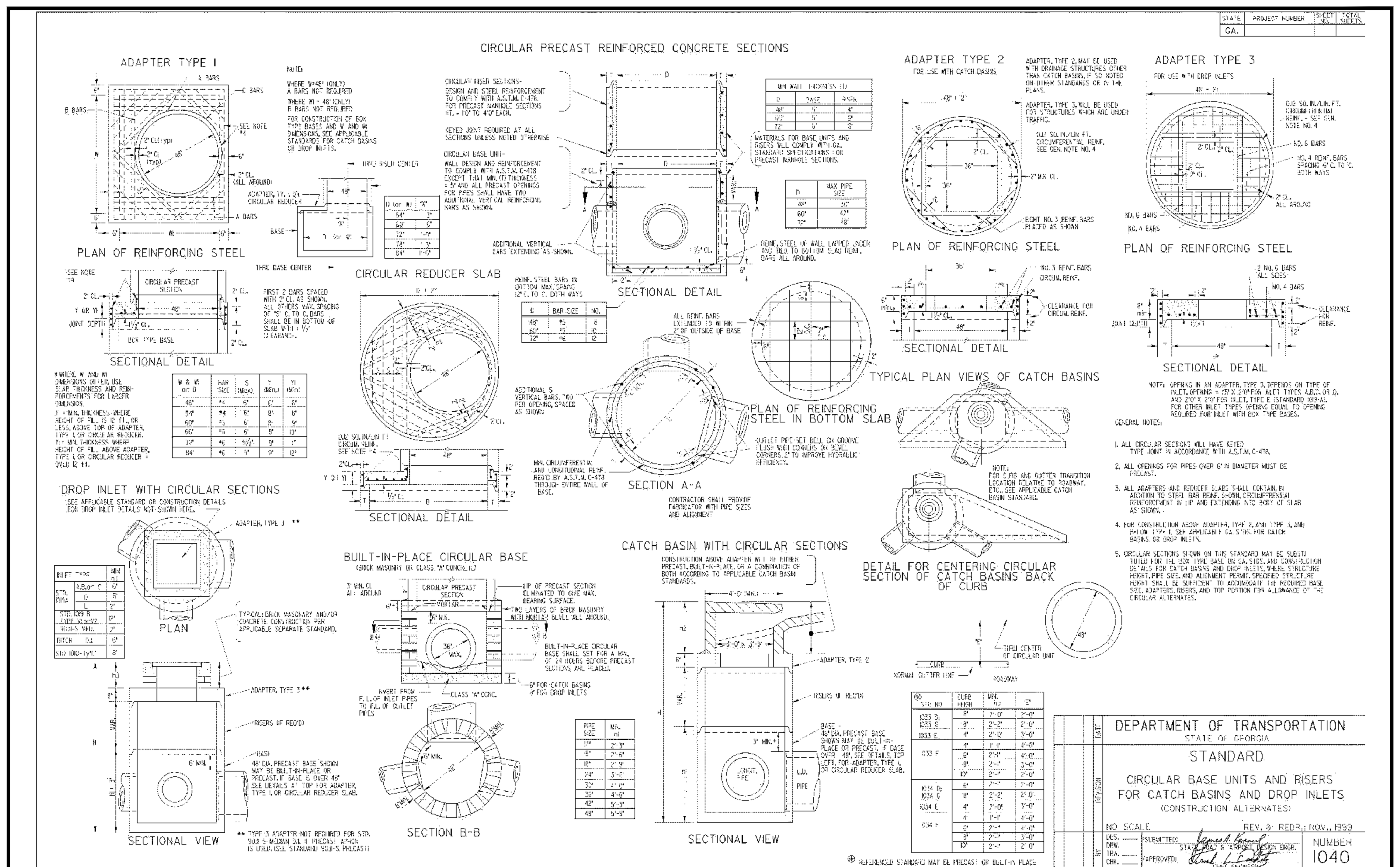
STANDARD GEORGIA D.O.T. PRECAST DROP INLET DETAIL

Ga D.O.T. DETAIL #1019A



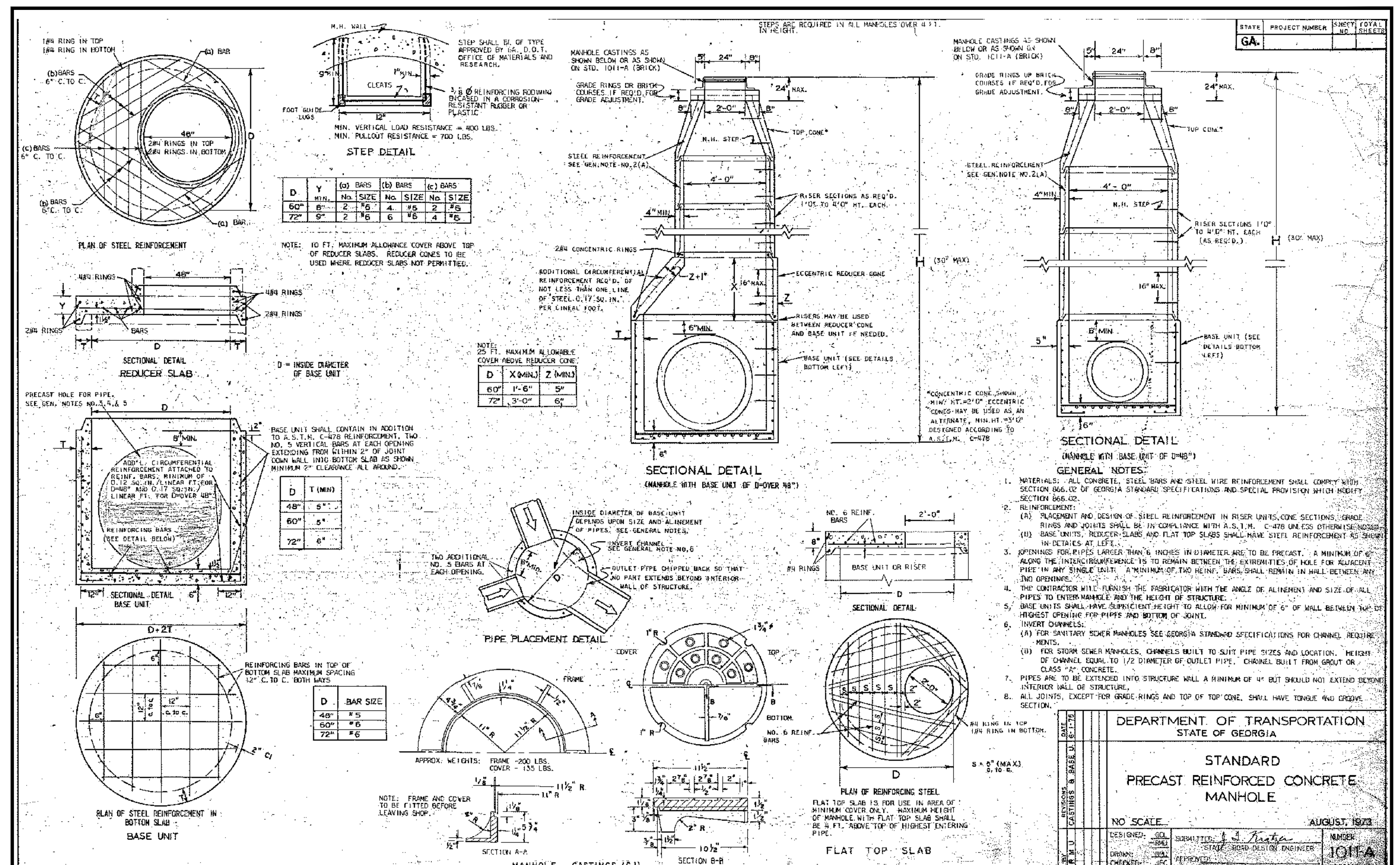
STANDARD GEORGIA D.O.T. #1033D PRECAST SINGLE WING CATCH BASIN DETAIL

Ga D.O.T. DETAIL #1033D



STANDARD GEORGIA D.O.T. CIRCULAR BASE UNITS AND RISERS FOR CATCH BASINS AND DROP INLETS

Ga D.O.T. DETAIL #1040



STANDARD GEORGIA D.O.T. #1011A PRECAST CONCRETE REINFORCED MANHOLE DETAIL

Ga D.O.T. DETAIL #1011A

Drawing name: K:\ALP_PRJ\019473000_GID - High Street\CADD\PlanSheets\Phase 1\C6-30 - STORM STRUCTURE DETAILS.DWG C6-30 STORM STRUCTURE DETAILS Aug 16, 2019 2:03pm by: russell.noah

PREPARED BY

Kimley»Horn

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11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
PHONE (770) 619-4280
WWW.KIMLEY-HORN.COM

PREPARED FOR

HIGH STREET DEVELOPMENT LLC

125 HIGH STREET, HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110
PHONE: (617) 854-6641

No.	ISSUANCE AND REVISION DESCRIPTIONS	DATE	BY

PROJECT

HIGH STREET - PHASE 1

211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND DRIVE, DUNWOODY, GA 30346
LAND LOT 348, 18TH DISTRICT

GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

TITLE

STORM STRUCTURE DETAILS

SHEET NUMBER

C6-30

ACO drain

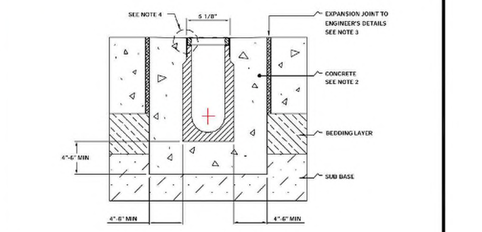
INSTALLATION DRAWING

DRW# 1240 Date: 11.21.09

WWW.ACOUSA.COM

K100S: Load Class A-C : Concrete Finish

ACO Polymer Products Inc.
P.O. Box 241
Charlton, OH 44024
PH: 440-255-7000
FX: 440-255-6517
e-mail: sales@acousa.com



NOTES:
1. It is necessary to ensure the minimum dimensions shown are suitable for the existing ground conditions. *Engineering advice may be required.*
2. A minimum concrete strength of 3000 PSI is recommended. The concrete should be worked to eliminate air pockets.
3. Expansion and crack control joints are recommended to protect the channel and the concrete surround. *Engineering advice may be required.*
4. The finished level of the concrete surround must be approx. 1/8" above the top of the channel edge.
5. Refer to ACO'S latest installation instructions for complete details.

ACO drain

SPECIFICATION CLAUSE

DRW# 1240 Date: 11.21.09

WWW.ACOUSA.COM

K100S Trench Drain System

ACO Polymer Products Inc.
P.O. Box 241
Charlton, OH 44024
PH: 440-255-7000
FX: 440-255-6517
e-mail: sales@acousa.com

The surface drainage system shall be polymer concrete K100S channel system with galvanized steel or stainless steel R-rails as manufactured by ACO Polymer Products, Inc., Charlton, OH.

Channels shall be manufactured from polyester resin polymer concrete with a h integrally cast-in galvanized steel or stainless steel edge rail.

The system shall be 4 inches (100 mm) nominal inside width with a 8.1 in. (155mm) outside width and a built in slope of 0.6 %. All channels shall be interlocking with a male/female joint. Each channel shall have preformed 4 in. (102mm) round and 6 in. (150mm) oval drain outlets on the bottom for vertical connection with side or ground piping.

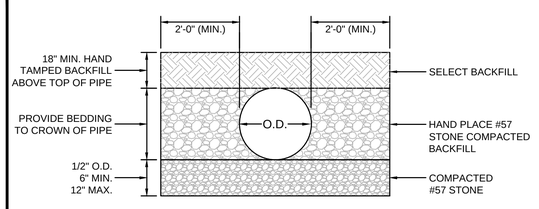
The complete drainage system shall be by ACO Polymer Products, Inc. Any deviation or partial system design and/or improper installation will void any and all warranties provided by ACO Polymer Products, Inc.

Channel shall withstood loading to Load Class ___ (DIN 19 580). Grate type shall be appropriate to meet the system load class specified and intended application. Grates shall be secured by means of either a boltless locking "Quicklok" device or locking bolt and bar. Channel and grate shall be independently certified to meet the specified DIN 19580 load class.

Polymer Concrete shall have material properties of: compressive strength range between 14,000-14,500 psi, flexural strength between 3600-4200 psi, tensile strength of 1160 psi. The material water absorption rate shall not exceed 0.1 % by weight and shall be resistant to prolonged salt exposure, repetitive frost cycles and chemically resistant to acids and alkalis.

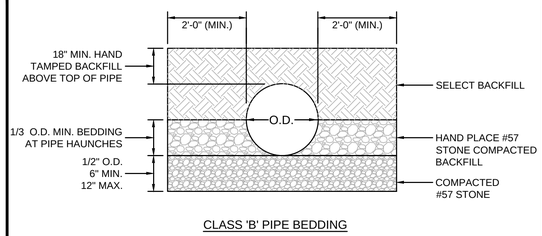
The system shall be installed in accordance with the manufacturer's instructions and recommendations. Traffic rating required.

ACO-TRENCH DRAIN DETAIL



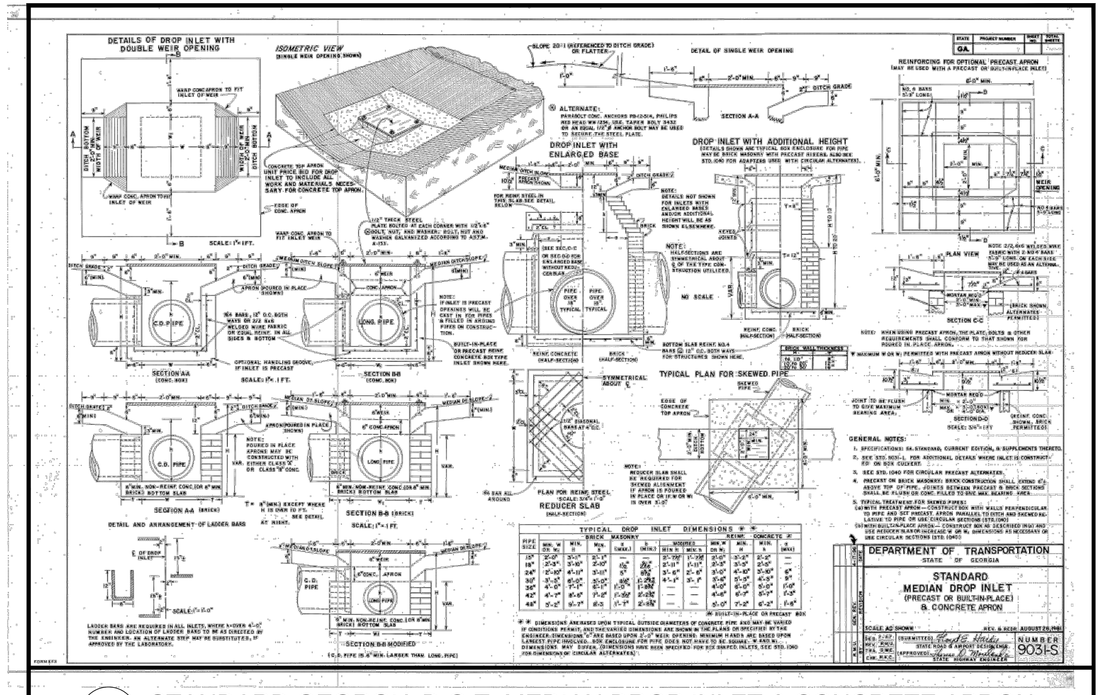
CLASS 'B' PIPE BEDDING

HDPE STORM DRAIN BEDDING DETAIL



CLASS 'B' PIPE BEDDING

RCP STORM DRAIN BEDDING DETAIL



STANDARD GEORGIA D.O.T. MEDIAN DROP INLET & CONCRETE APRON

GA D.O.T. #9031-2

Kimley»Horn
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11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
PHONE: 678-686-2700
WWW.KIMLEY-HORN.COM

PREPARED BY

PREPARED FOR

HIGH STREET DEVELOPMENT LLC
125 HIGH STREET, HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110
PHONE: (617) 654-6641

PROJECT

HIGH STREET - PHASE 1
211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND DRIVE, ATLANTA, GA 30346
LAND LOT 348, 18TH DISTRICT

No.	ISSUANCE AND REVISION DESCRIPTIONS	DATE	BY

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE044139 07/16/2019 MAREK M. ZITTRAUER

GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

TITLE
STORM STRUCTURE DETAILS

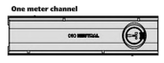
SHEET NUMBER
C6-31

ACO Specification Information

ACO DRAIN

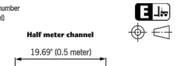
KlassikDrain - K200 Galvanized steel edge rail channel system

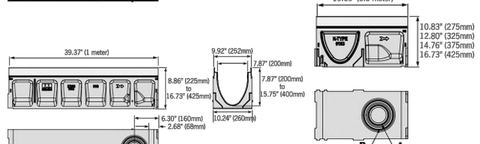
One meter channel



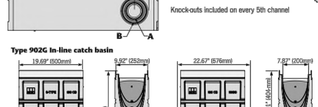
Inside view of channel - showing channel ID number and knockout if applicable (every 5th channel)

Half meter channel





Type 902G In-line catch basin

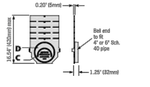


Outlet flow rates

Outlet	Product	Outlet size (Sch. 40)	Invert Depth	GPM	CFS
A	Bottom outlet - K2-00	4" round	7.87"	153	0.34
A	Bottom outlet - K2-040	4" round	15.75"	216	0.48
B	Bottom outlet -K2-00	6" round	7.87"	344	0.77
B	Bottom outlet - K2-040	6" round	15.75"	486	1.08
C	End outlet - K2-00	4" round	7.87"	132	0.29
C	End outlet - K2-40	4" round	15.75"	202	0.45
D	End outlet - K2-10	6" round	9.84"	320	0.71
D	End outlet - K2-40	6" round	15.75"	437	0.97
E	Type K2-902G	4" round	25.33"	263	0.59
F	Type K2-902G	4" round	31.83"	297	0.66
G	Type K2-902G	4" round	23.76"	254	0.57
H	Type K2-902G	6" round	31.83"	658	1.47
I	Type K2-902G	4" round	23.91"	255	0.57
J	Type K2-902G	4" round	30.40"	290	0.65
K	Type K2-902G	6" round	24.68"	570	1.27
L	Type K2-902G	4" round	24.13"	256	0.57
M	Type K2-902G	6" round	31.82"	658	1.47
N	Type K2-902G	4" round	31.26"	294	0.66
O	Type K2-902G	6" round	31.26"	651	1.45
P	Type K2-902G	6" round	31.82"	1149	2.56
Q	Type K2-902G	6" round	30.32"	640	1.43
R	Type K2-902G	4" round	23.19"	251	0.56
S	Type K2-902G	4" round	29.90"	288	0.64

Note: These are the pipe flow rates at the specified outlet, NOT channel flow rates. *Catch basin flow rates are without trash bucket - using trash bucket reduces flow.

End Cap



April 2018

www.ACODrain.us

K200 RAIL CHANNEL SYSTEM

ACO Specification Information

ACO DRAIN

KlassikDrain - K200 Galvanized steel edge rail channel system

Description	Part No.	Invert inches[1]	Invert mm[2]	Wgt Lbs.
K2-00 Neutral channel - 39.37" (1m)[3]	**75041**	**7.87**	**200**	**83.6**
K2-1 Sloped channel - 39.37" (1m)	75001	8.07	205	83.6
K2-2 Sloped channel - 39.37" (1m)	75002	8.27	210	84.7
K2-3 Sloped channel - 39.37" (1m)	75003	8.46	215	85.8
K2-4 Sloped channel - 39.37" (1m)	75004	8.66	220	86.9
K2-5 Sloped channel - 39.37" (1m)[3]	75005	8.86	225	88.0
K2-6 Sloped channel - 39.37" (1m)	75006	9.06	230	89.1
K2-7 Sloped channel - 39.37" (1m)	75007	9.25	235	90.2
K2-8 Sloped channel - 39.37" (1m)	75008	9.45	240	91.3
K2-9 Sloped channel - 39.37" (1m)	75009	9.65	245	92.4
K2-10 Sloped channel - 39.37" (1m)[3]	75010	9.84	250	93.5
K2-010 Neutral channel - 39.37" (1m)[3]	**75043**	**9.84**	**250**	**93.5**
K2-0103 Neutral channel - 19.69" (0.5m)[3]	**75044**	**9.84**	**250**	**56.0**
K2-11 Sloped channel - 39.37" (1m)	75011	10.04	255	94.6
K2-12 Sloped channel - 39.37" (1m)	75012	10.24	260	95.7
K2-13 Sloped channel - 39.37" (1m)	75013	10.43	265	96.8
K2-14 Sloped channel - 39.37" (1m)	75014	10.63	270	97.9
K2-15 Sloped channel - 39.37" (1m)[3]	75015	10.83	275	99.0
K2-16 Sloped channel - 39.37" (1m)	75016	11.02	280	100.1
K2-17 Sloped channel - 39.37" (1m)	75017	11.22	285	101.2
K2-18 Sloped channel - 39.37" (1m)	75018	11.41	290	102.3
K2-19 Sloped channel - 39.37" (1m)	75019	11.61	295	103.4
K2-20 Sloped channel - 39.37" (1m)[3]	75020	11.81	300	104.5
K2-020 Neutral channel - 39.37" (1m)[3]	**75045**	**11.81**	**300**	**104.5**
K2-0203 Neutral channel - 19.69" (0.5m)[3]	**75046**	**11.81**	**300**	**64.0**
K2-21 Sloped channel - 39.37" (1m)	75021	12.01	305	105.6
K2-22 Sloped channel - 39.37" (1m)	75022	12.20	310	106.7
K2-23 Sloped channel - 39.37" (1m)	75023	12.40	315	107.8
K2-24 Sloped channel - 39.37" (1m)	75024	12.60	320	108.9
K2-25 Sloped channel - 39.37" (1m)[3]	75025	12.80	325	110.0
K2-26 Sloped channel - 39.37" (1m)	75026	12.99	330	111.1
K2-27 Sloped channel - 39.37" (1m)	75027	13.19	335	112.2
K2-28 Sloped channel - 39.37" (1m)	75028	13.39	340	113.3
K2-29 Sloped channel - 39.37" (1m)	75029	13.58	345	114.4
K2-30 Sloped channel - 39.37" (1m)[3]	75030	13.78	350	115.5
K2-030 Neutral channel - 39.37" (1m)[3]	**75047**	**13.78**	**350**	**115.5**
K2-0303 Neutral channel - 19.69" (0.5m)[3]	**75048**	**13.78**	**350**	**68.0**
K2-31 Sloped channel - 39.37" (1m)	75031	13.98	355	116.6
K2-32 Sloped channel - 39.37" (1m)	75032	14.17	360	117.7
K2-33 Sloped channel - 39.37" (1m)	75033	14.37	365	118.8
K2-34 Sloped channel - 39.37" (1m)	75034	14.57	370	119.9
K2-35 Sloped channel - 39.37" (1m)[3]	75035	14.76	375	121.0
K2-36 Sloped channel - 39.37" (1m)	75036	14.96	380	122.1
K2-37 Sloped channel - 39.37" (1m)	75037	15.16	385	123.2
K2-38 Sloped channel - 39.37" (1m)	75038	15.35	390	124.3
K2-39 Sloped channel - 39.37" (1m)	75039	15.55	395	125.4
K2-40 Sloped channel - 39.37" (1m)[3]	75040	15.75	400	126.5
K2-040 Neutral channel - 39.37" (1m)[3]	**75049**	**15.75**	**400**	**126.5**
K2-0403 Neutral channel - 19.69" (0.5m)[3]	**75050**	**15.75**	**400**	**77.0**
K2-9016 Inline catch basin - 19.69" (0.5m)[3]	94611	32.81	833.3	68.0
K2-6216 Catch basin - 19.69" (0.5m)[3]	94620	37.33	948.1	91.0
K2-6316 Catch basin - 19.69" (0.5m)[3]	94633	49.33	1252.9	101.0
K2 Series 600 Optional plastic riser	99902	-	-	10.0
Foul air trap - fits both 900 & 600 series basins	90854	-	-	1.2
Universal end cap	96821	15.71	399	1.4
Debris strainer for 8" bottom knockout	93488	-	-	0.2
K2 installation device	97478	-	-	2.8
Grate removal tool	01318	-	-	0.3
K2 QuickLok locking bar	10457	-	-	0.5

Notes:
1. Title channel offers a bottom knockout feature; 4" & 6" round
2. Inserts shown are for the male end; for female invert depth subtract 5mm (–0.2") from the male invert (except for neutral channels, where it will be same as male invert). To calculate the overall channel depth add 25mm (–1.0") to invert depth.
3. This catch basin kit includes a polymer concrete top, removable Quicklok locking bar, trash bucket and plastic base. Select an appropriate grate.
4. This catch basin kit includes a polymer concrete top, removable Quicklok locking bar, deep trash bucket, plastic riser and plastic base. Select an appropriate grate.

Specifications

General
The surface drainage system shall be ACO Drain K200 complete with gratings secured with 'QuickLok' locking as manufactured by ACO, Inc. or approved equal.

Materials
The trench system bodies shall be manufactured from polyester polymer concrete with the minimum properties as follows:

Compressive strength:	14,000 psi
Flexural strength:	4,000 psi
Water absorption	0.07%
Frost proof	YES
Salt proof	YES
Dilute acid and alkali resistant	YES

The nominal clear opening shall be 8" (200mm) with overall width of 10.24" (260mm). Pre-cast units shall be manufactured with either an invert slope of 0.5% or with neutral invert and have a wall thickness of at least 0.50" (13mm). Each unit will feature a partial radius in the trench bottom and a male to female interconnecting end profile. Units shall have horizontal cast in anchoring keys on the outside wall to ensure maximum mechanical bond to the surrounding bedding material and pavement surface. The galvanized steel edge rail will be integrally cast in by the manufacturer to ensure maximum homogeneity between polymer concrete body and edge rail. Each edge rail shall be at least 3/32" (2.5mm) thick.

Grates
Grates shall be specified. See separate ACO Spec Info grate sheets for details. After removal of grates and 'QuickLok' bar there shall be uninterrupted access to the trench to aid maintenance.

Installation
The trench drain system shall be installed in accordance with the manufacturer's installation instructors and recommendations.

ACO, Inc.
Northeast Sales Office
9470 Pinecone Drive
Mentor, OH 44060
Tel: (440) 639-7230
Toll free: (800) 543-4764
Fax: (440) 639-7235

West Sales Office
825 W. Beechcroft St.
Casa Grande, AZ 85122
Tel: (520) 421-9988
Toll Free: (888) 480.8552
Fax: (520) 421-9899

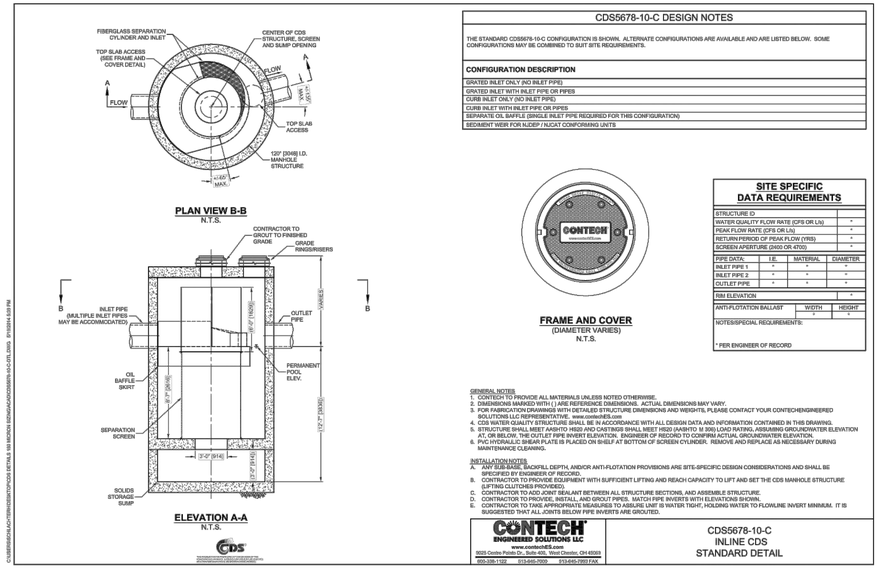
Southeast Sales Office
4211 Pleasant Road
Fort Mill, SC 29708
Toll free: (800) 543-4764
Fax: (803) 802-1063

Electronic Contact:
info@ACODrain.us
www.ACODrain.us

SPEC INFO ACO

April 2018

www.ACODrain.us



CDS5678-10-C DESIGN NOTES

THE STANDARD CDS5678-10-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION

GRATED INLET ONLY (NO INLET PIPE)
GRATED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES
SEPARATA OIL BAFFLE (SINGLE INLET PIPE REQUIRED FOR THIS CONFIGURATION)
SEDIMENT WEIR FOR NJDEP / NJCAT CONFORMING UNITS

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID			
WATER QUALITY FLOW RATE (CFS OR L/s)			*
PEAK FLOW RATE (CFS OR L/s)			*
RETURN PERIOD OF PEAK FLOW (YRS)			*
SCREEN APERTURE (2400 OR 4700)			*
PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	*	*	*
INLET PIPE 2	*	*	*
OUTLET PIPE	*	*	*
RIM ELEVATION			*
ANTI-FLOTATION BALLAST	WIDTH	HEIGHT	
	*	*	

NOTES/SPECIAL REQUIREMENTS:

* PER ENGINEER OF RECORD

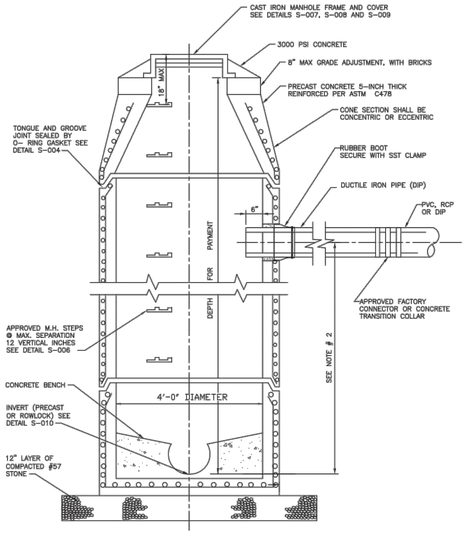
GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECHENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET ASHTO H20 AND CASTINGS SHALL MEET H20 (AASHTO M 306) LOAD RATING, ASSUMING GRO UNDWATER ELEVATION AT OR BELOW THE BOTTOM OF THE STRUCTURE'S FOUNDATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
6. PVC HYDRAULIC BRAKE PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CONTECH ENGINEERED SOLUTIONS LLC
www.contechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

CDS5678-10-C
INLINE CDS
STANDARD DETAIL

Drawing name: K:\ALP_PRJ\019473000_GID - High Street\CADD\PlanSheets\Phase 1\C6-30 - STORM STRUCTURE DETAILS.DWG C6-31 STORM STRUCTURE DETAILS Aug 16, 2019 5:05pm by: derek.zittrauer



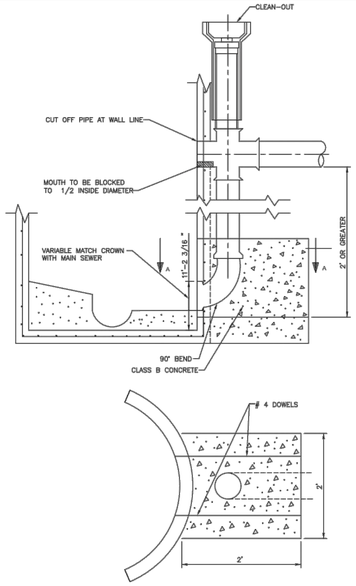
NOTES:

1. WHERE NECESSARY TO CONSTRUCT MANHOLE OVER EXISTING SEWER, 9" THICK CONCRETE POURED-IN-PLACE FOOTING/FOUNDATION MAY BE USED IN LIEU OF PRECAST BOTTOM SECTION.

2. WHERE DROP FROM INVERT OF MANHOLE TO INVERT OF INFLUENT PIPE(S) EXCEED 2'-0", AN OUTSIDE DROP CONNECTION SHALL BE REQUIRED EXCEPT WHEN DCDWM SPECIFICALLY APPROVES ITS ELIMINATION. SEE DETAILS S-003 OR S-027.

3. PRECAST ALL OPENINGS FOR PIPE IN BASE AND RISER UNITS.

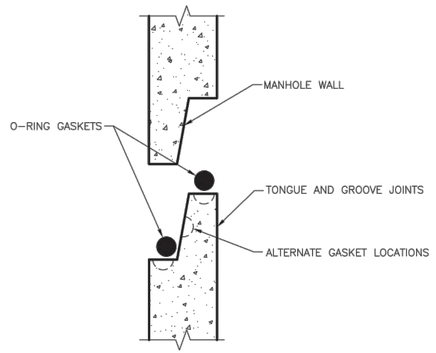
	STANDARD DETAILS	09/17
DeKalb County GEORGIA	**Standard Precast Manhole**	WATER Matters
	NOT TO SCALE	DETAIL NO. S-001



NOTES:
1. "DROP CONNECTION" SHALL INCLUDE THE EXCAVATION, MH CORE, CONCRETE, DIP, FITTINGS AND OTHER INCIDENTALS NECESSARY TO COMPLETE THE ITEM. DUCTILE IRON PIPE (18" MIN) INSTALLED UPSTREAM OF THE TEE.

2. ALL BENDS, TEES, AND FITTINGS REQUIRED TO INSTALL OUTSIDE DROP SHALL BE DUCTILE IRON.

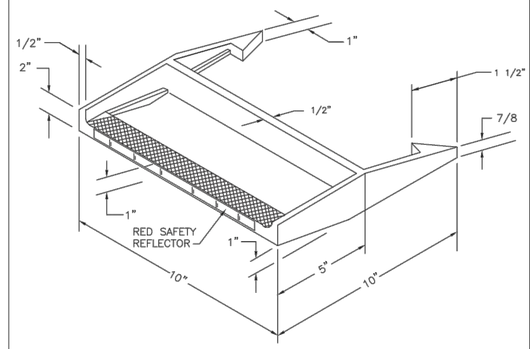
	STANDARD DETAILS	09/17
DeKalb County GEORGIA	**Outside Drop Connection For Precast Manhole**	WATER Matters
	NOT TO SCALE	DETAIL NO. S-003



NOTE:

AFTER INSTALLATION JOINTS SHALL BE GROUTED SMOOTH WITH CEMENT GROUT ON INSIDE AND OUT. ALSO AN EXTERNAL WRAP SUCH AS INFI-SHIELD GATOR WRAP OR EQUAL SHALL SEAL EACH OUTSIDE JOINT.

	STANDARD DETAILS	09/17
DeKalb County GEORGIA	**Manhole Joint Detail With Joint Wrap**	WATER Matters
	NOT TO SCALE	DETAIL NO. S-004



NOTES:

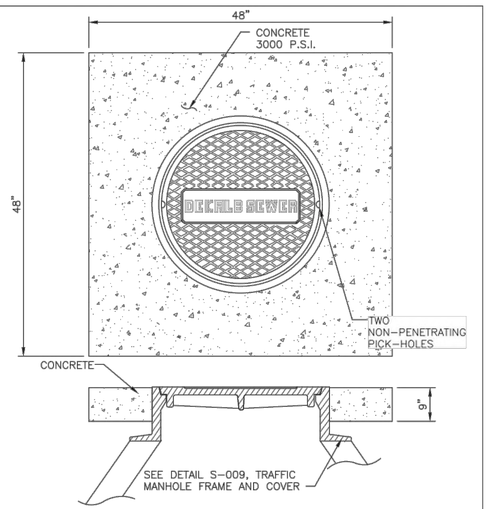
1. STEPS MAY BE CAST IRON, COATED STEEL, PLASTIC OR ALUMINUM AND MEET ASTM C-478 REQUIREMENTS.

2. MINIMUM DESIGN LIVE LOAD SHALL BE A SINGLE CONCENTRATED LOAD OF 300LBS.

3. STEPS SHALL BE A MINIMUM OF 10" WIDE. EMBEDDED A MINIMUM OF 3" AND PROJECT MINIMUM CLEAR DISTANCE OF 4".

4. MAXIMUM VERTICAL SPACING SHALL BE 12" IN THE COMPLETED MANHOLE.

	STANDARD DETAILS	09/17
DeKalb County GEORGIA	**Typical Manhole Step**	WATER Matters
	NOT TO SCALE	DETAIL NO. S-006

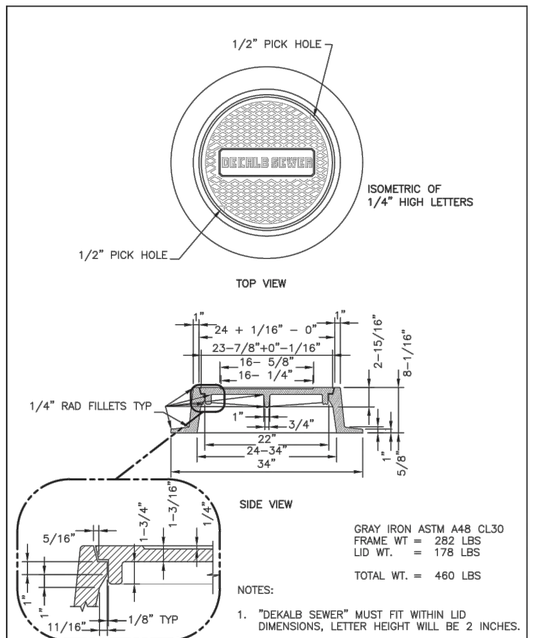


GRAY IRON ASTM A48 CL30
FRAME WT = 282 LBS
LID WT. = 178 LBS

TOTAL WT. = 460 LBS

NOTE: CONCRETE COLLARS ONLY REQUIRED IN STREETS, ROADWAYS AND OTHER AREAS SUBJECT TO VEHICULAR TRAFFIC.

	STANDARD DETAILS	09/17
DeKalb County GEORGIA	**Concrete Collar for Manhole Frame and Cover**	WATER Matters
	NOT TO SCALE	DETAIL NO. S-007



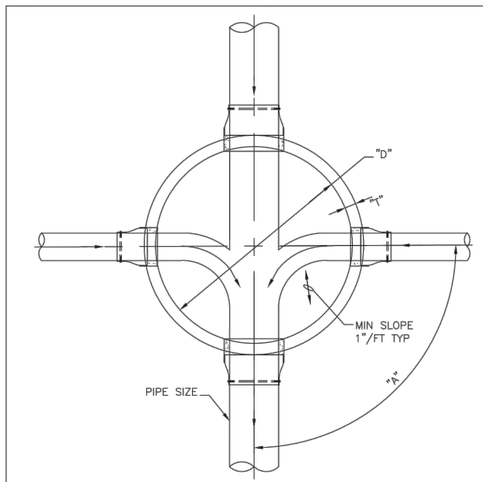
GRAY IRON ASTM A48 CL30
FRAME WT = 282 LBS
LID WT. = 178 LBS

TOTAL WT. = 460 LBS

NOTES:

1. "DEKALB SEWER" MUST FIT WITHIN LID DIMENSIONS, LETTER HEIGHT WILL BE 2 INCHES.

	STANDARD DETAILS	09/17
DeKalb County GEORGIA	**Traffic Manhole Frame and Cover**	WATER Matters
	NOT TO SCALE	DETAIL NO. S-009

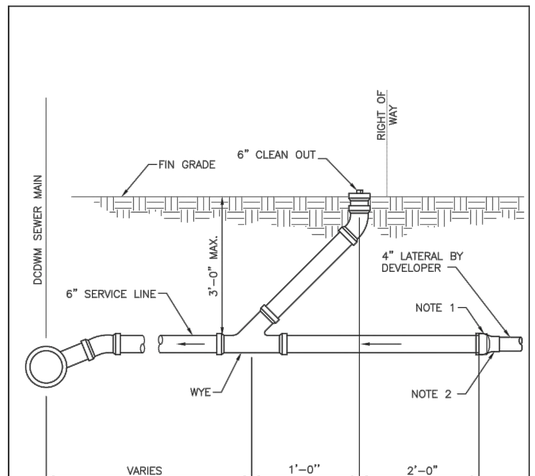


PIPE SIZE	"A"	"D"	"I"
6" & 15"	0° - 90°	4'-0"	5"
18"	0° - 60°	4'-0"	5"
18"	60° - 90°	5'-0"	6"
21" & 24"	0° - 60°	5'-0"	6"
21" & 24"	60° - 90°	6'-0"	7"

NOTE:

1. MINIMUM CENTERLINE RADIUS OF MANHOLE INVERT = 1.5 x PIPE DIAMETER

	STANDARD DETAILS	09/17
DeKalb County GEORGIA	**Invert Plan**	WATER Matters
	NOT TO SCALE	DETAIL NO. S-010



NOTES:

1. PLUG 6" SERVICE LINE.

2. CONNECT DEVELOPER'S 4" LATERAL TO 6" SERVICE LINE W/ 4" X 6" FERNCO COUPLING INCLUDING SST BANDS

	STANDARD DETAILS	09/17
DeKalb County GEORGIA	**Typical Service Line and Clean Out Detail**	WATER Matters
	NOT TO SCALE	DETAIL NO. S-012

PREPARED BY
Kimley»Horn

11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
PHONE: (770) 645-4500
WWW.KIMLEY-HORN.COM

PREPARED FOR
HIGH STREET DEVELOPMENT LLC
125 HIGH STREET, HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110
PHONE: (617) 854-6641

No.	ISSUANCE AND REVISION DESCRIPTIONS	DATE	BY

PROJECT
HIGH STREET - PHASE 1
211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND DRIVE, DUNWOODY, GA 30346
LAND LOT 348, 18TH DISTRICT

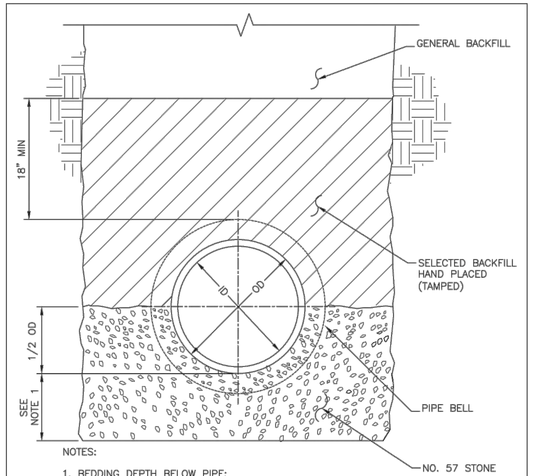
GEORGIA REGISTERED No. PE0041139 PROFESSIONAL ENGINEER MAREK M. ZITTRAUER

GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

TITLE
SANITARY SEWER DETAILS

SHEET NUMBER
C6-40

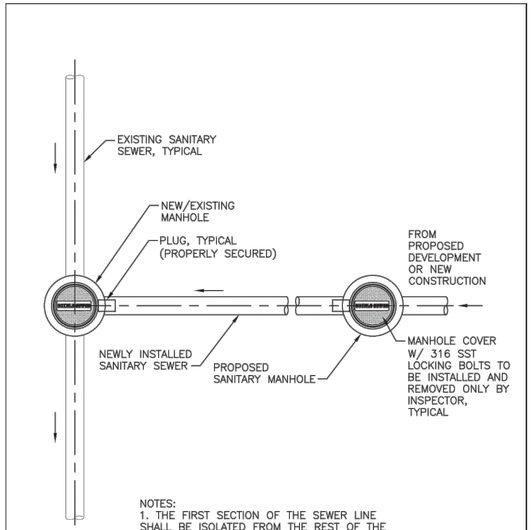
Drawing name: K:\ALP_PRJ\019473000_GID - High Street\CADD\PlanSheets\Phase 1\C6-40 - SANITARY SEWER DETAILS.DWG C6-40 SANITARY SEWER DETAILS Aug 16, 2019 2:03pm by: russell.noah



NOTES:

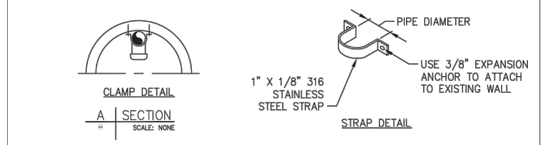
1. BEDDING DEPTH BELOW PIPE:
   - a.) PIPE DIAMETER UP TO 12":
     - i.) EQUAL TO 1/2 TIMES THE OUTSIDE DIAMETER (OD)
     - ii.) MINIMUM 4"
   - b.) PIPE DIAMETER GREATER THAN 12":
     - i.) EQUAL TO 1/4 TIMES THE OUSIDE DIAMETER (OD)
     - ii.) MINIMUM 6"
   - C.) MAXIMUM 12"

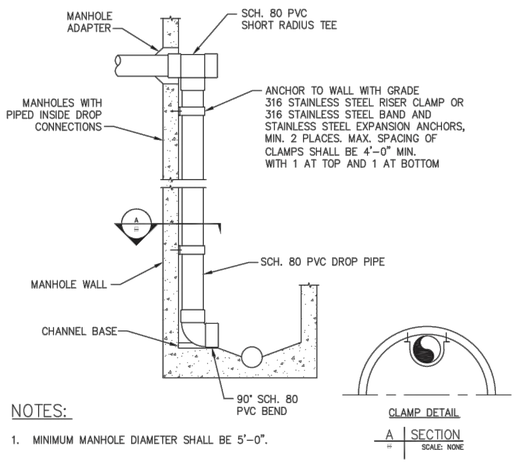
	STANDARD DETAILS	09/17
DeKalb County GEORGIA	**Class "B" Bedding**	WATER Matters
	NOT TO SCALE	DETAIL NO. S-014



NOTES:
1. THE FIRST SECTION OF THE SEWER LINE SHALL BE ISOLATED FROM THE REST OF THE PROPOSED SYSTEM.
2. THE FIRST MANHOLE OF THE PROPOSED SYSTEM SHALL BE USED TO PUMP OUT ANY INFLOW/INFILTRATION, MUD, ETC., THAT ENTERED THE SYSTEM DURING CONSTRUCTION.
3. THE PLUGS SHALL NOT BE REMOVED UNTIL APPROVAL OF PROPOSED SEWER SYSTEM BY DCDWM INSPECTORS.

	STANDARD DETAILS	09/17
DeKalb County GEORGIA	**Plug Location Detail**	WATER Matters
	NOT TO SCALE	DETAIL NO. S-019

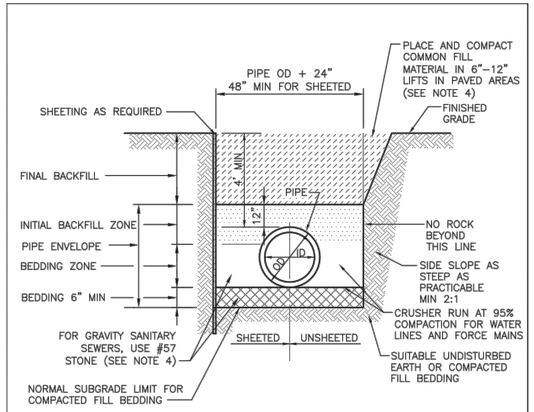




NOTES:

1. MINIMUM MANHOLE DIAMETER SHALL BE 5'-0".

	STANDARD DETAILS	09/17
DeKalb County GEORGIA	PIPED INSIDE DROP CONNECTION FOR MANHOLE	WATER Matters
	Not To Scale	DETAIL NO. S-027



NOTES:

1. SEE DESIGN STANDARDS FOR ADDITIONAL BEDDING AND TRENCH BACKFILL REQUIREMENTS.
2. DEPTH OF COVER OVER WATER MAINS, FORCE MAINS AND GRAVITY SANITARY SEWERS SHALL BE 4'–0" AS MEASURED FROM TOP OF PAVEMENT OR FINISHED GRADE TO TOP OF PIPE.
3. NO ROCK, ONLY BEDDING MATERIAL IN BACKFILL FOR FIRST 2'–0" ABOVE TOP OF PIPE.
4. BEDDING AND BACKFILL TO BE CRUSHER RUN AT 95% COMPACTION UNDER ALL PAVING FROM 12" ABOVE THE TOP OF PIPE TO THE BOTTOM OF THE CONCRETE ROAD CAP.
5. BACKFILL TO BE FREE OF ORGANICS, OBJECTIONABLE MATERIAL AND STONES LARGER THAN 3" IN ITS LONGEST DIMENSION.

	STANDARD DETAILS	09/17
DeKalb County GEORGIA	**Backfill and Allowable Trench Widths Detail**	WATER Matters
	NOT TO SCALE	DETAIL NO. G-004

PREPARED BY
Kimley»Horn
© 2019 KIMLEY-HORN AND ASSOCIATES, INC.
11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
PHONE: (770) 645-4540
WWW.KIMLEY-HORN.COM

PREPARED FOR
HIGH STREET DEVELOPMENT LLC
125 HIGH STREET, HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110
PHONE: (617) 854-6641

No.	ISSUANCE AND REVISION DESCRIPTIONS	DATE	BY

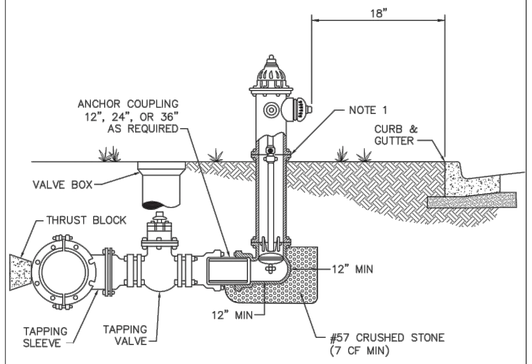
PROJECT
HIGH STREET - PHASE 1
211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND DRIVE, DUNWOODY, GA 30346
LAND LOT 348, 18TH DISTRICT

GEORGIA REGISTERED No. PE044139 PROFESSIONAL ENGINEER MAREK M. ZITTRAUER

GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

TITLE
SANITARY SEWER DETAILS

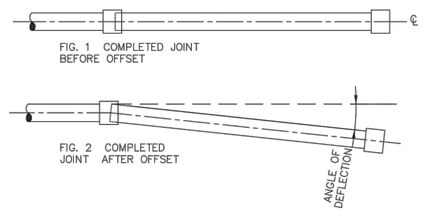
SHEET NUMBER
C6-41



NOTES:

1. BREAKAWAY FLANGE NOT GREATER THAN 6" ABOVE FINAL GRADE

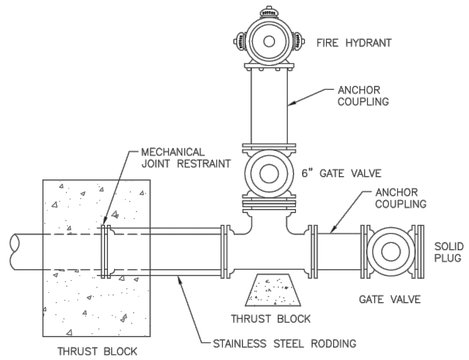
STANDARD DETAILS
Typical Fire Hydrant Detail
Tap Installation
NOT TO SCALE
09/17
DETAIL NO. W-004



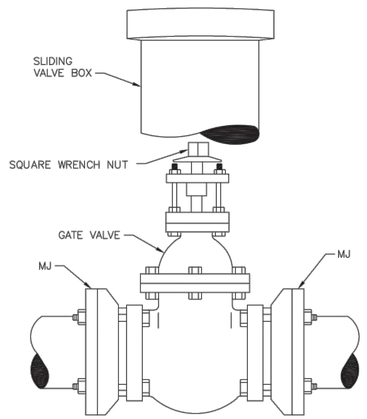
NOTES:

1. ALL JOINTS MUST BE ASSEMBLED AS SHOWN IN FIG. 1 BEFORE MAKING DEFLECTION.
2. ALL DEFLECTION ANGLES SHALL BE LESS THAN THE PIPE MANUFACTURERS MAXIMUM.

STANDARD DETAILS
Maximum Allowable Offsets and Deflections
NOT TO SCALE
09/17
DETAIL NO. W-005



STANDARD DETAILS
Typical Stub-Out
NOT TO SCALE
09/17
DETAIL NO. W-006



STANDARD DETAILS
Typical Gate Valve Installation
NOT TO SCALE
09/17
DETAIL NO. W-007

MINIMUM CONTAINMENT PROTECTION REQUIREMENT
NEW CONSTRUCTION AND RETROFIT INSTALLATIONS NONHAZARDOUS
DEDICATED FIRELINE SERVICE CONNECTION
SERVICE SIZE: 2 1/2" AND ABOVE
DOUBLE CHECK DETECTOR ASSEMBLY (DCDA)

SPECIFICATION: THE CUSTOMER/OWNER SHALL FURNISH AND INSTALL A DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) BACKFLOW PREVENTION ASSEMBLY (BPP) IN A SIZE TO MATCH THAT OF THE REQUIRED FIRELINE SERVICE CONNECTION. THE BFP ASSEMBLY SHALL HAVE A METER ½ TO 3" BY-PASS LINE AS SHOWN ON THE ILLUSTRATION. THE DCDA BFP SHALL BE PROVIDED WITH A RESILIENT SEATED OUTSIDE STEM AND YOKE FLANGED GATE VALVE NEAR THE INLET AND OUTLET SIDES OF THE ASSEMBLY. THE ASSEMBLY SHALL BE PROVIDED WITH THREE BALL VALVE TEST COCKS FITTED WITH BRASS OR PLASTIC THREADED PLUGS. A FOURTH TEST COCK SHALL ALSO BE PROVIDED ON THE UPSTREAM SIDE OF THE INLET SHUT-OFF VALVE. THE METERED BY-PASS LINE ON THE ASSEMBLY SHALL INCLUDE A BRONZE DETECTOR METER AND A DOUBLE CHECK (DC) BFP.

NOTE: ALL COMPONENTS OF THE ASSEMBLY SHALL BE CERTIFIED BY LISTED BY THE UNDERWRITER LABORATORIES AND FACTORY MUTUAL INSURANCE. THE DCDA BFP-ASSEMBLY SHALL HAVE APPROVAL AND CONFORM TO ALL CURRENT REQUIREMENTS OF THE UNIVERSITY OF SOUTHERN CALIFORNIA, FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH (USC-FCCCHR), BE INDIVIDUALLY TESTED, SHIPPED AND INSTALLED AS A UNIT.

INSTALLATION INSTRUCTIONS: THE DCDA BFP SHALL NOT BE BURIED IN EARTH BUT INSTALLED BELOW GROUND IN A VAULT AS CLOSE AS PRACTICAL TO THE PROPERTY LINE OF THE PREMISES AND OUT OF RIGHT-OF-WAY. NO OTHER ASSEMBLY IS ALLOWED TO BE INSTALLED IN THE VAULT FOR DCDA BFP ASSEMBLY. PRIOR APPROVAL IS REQUIRED IF DCDA CANNOT BE INSTALLED OUTSIDE THE BUILDING, CLOSE TO THE PROPERTY LINE.

NOTE: UNDER NO CIRCUMSTANCES WILL ANY CONNECTION BE ALLOWED ON THE SYSTEM OTHER THAN FOR FIRE FIGHTING OR FIRE PROTECTION PURPOSES.

ASSEMBLY TESTING: ALL DCDA BFP'S SHALL BE FIELD TESTED FOLLOWING INSTALLATION, REPAIR, OR RELOCATION, AND AT LEAST ANNUALLY THEREAFTER.

PLAN APPROVAL AND INSPECTION: PLAN APPROVAL MUST BE OBTAINED AND INSPECTION SCHEDULED PRIOR TO WORK, THROUGH DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT. CONTACT BACKFLOW PREVENTION SECTION AT (404)-687-4075 FOR BACKFLOW INSPECTION PRIOR TO INSTALLATION.

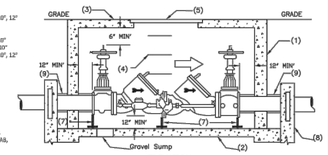
TYPICAL VAULT INSTALLATION
(MINIMUM CLEARANCE DIMENSIONS)

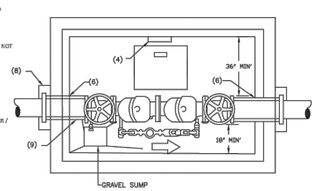
APPROVED ASSEMBLIES (OR EQUIVALENT):

AMES	3000SS	2.5", 3", 4", 6", 8", 10", 12"
BACKFLOW DIRECT DERRINGER		2.5", 3", 4", 6", 8"
COMBMACO	DCDA-4SS	2.5", 3", 4", 6", 8"
FEBCO	LF859	2.5", 3", 4", 6", 8", 10"
WATTS	LF7009 DCDA	2.5", 3", 4", 6", 8", 10"
WILKINS	350 DA	2.5", 3", 4", 6", 8", 10", 12"

VAULT SPECIFICATIONS:

1. VAULT SHALL BE PRECAST REINFORCED CONCRETE WITH A MINIMUM THICKNESS OF AT LEAST 6" INCH.
2. VAULT BOTTOM SHALL BE 6" POURED CONCRETE SLAB, SLOPED TO 12" x 12" GRAVEL SUMP. SLAB TO BE POURED ON 12" OF NO. 57 COMPACTED STONE.
3. VAULT TOP SHALL BE REINFORCED CONCRETE WITH 30" x 30" ACCESS OPENING OFFSET TO ONE SIDE.
4. ACCESS LADDER DOWELED TO WALL AND CENTERED AT ACCESS OPENING.
5. HATCH COVER SHALL BE BILCO ALUMINUM SINGLE, MODEL J-AAL OR EQUIVALENT.
6. VAULT INLET/OUTLET PIPE OPENINGS TO BE SEALED WITH NON-SHRINK GROUT OR MORTAR. PIPE MUST NOT SUPPORT VAULT.
7. BFP ASSEMBLY TO BE SUPPORTED AT THREE POINTS WITH PIPE STAND.
8. THRUST BLOCKING, AS REQUIRED, MUST BE IN ACCORDANCE WITH DCDAWM SPECIFICATIONS.
9. THRUST TIE RODS SHALL BE BITUMASTIC COATED. ALL PIPE AND FITTINGS OF DUCTILE IRON.
10. VAULT TO BE INSTALLED ON OWNER'S PRIVATE PROPERTY.
11. ALL MATERIALS TO BE FURNISHED BY THE CUSTOMER / OWNER.





STANDARD DETAILS
DCDA BFP Installation
Non Hazardous Fire Line Installation
NOT TO SCALE
09/17
DETAIL NO. W-009

MINIMUM CONTAINMENT PROTECTION REQUIREMENT
NEW CONSTRUCTION AND RETROFIT INSTALLATIONS
SERVICE SIZE: 2 1/2 INCH AND ABOVE METER SIZE: 2 1/2 INCH AND ABOVE
DOUBLE CHECK VALVE ASSEMBLY (DC)

SPECIFICATION: THE CUSTOMER/OWNER SHALL FURNISH AND INSTALL A DOUBLE CHECK (DC) VALVE BACKFLOW PREVENTION ASSEMBLY (BPP) IN A SIZE TO MATCH THAT OF THE REQUIRED SERVICE LINE CONNECTION. THE DC BFP SHALL BE PROVIDED WITH AN EPOXY COATED RESILIENT SEATED FLANGED OUTSIDE STEM AND YOKE GATE VALVE NEAR THE INLET AND OUTLET SIDES OF THE ASSEMBLY. THE ASSEMBLY SHALL BE PROVIDED WITH THREE BALL VALVE TEST COCKS FITTED WITH BRASS OR PLASTIC THREADED PLUGS. A FOURTH TEST COCK SHALL ALSO BE PROVIDED ON THE UPSTREAM SIDE OF THE INLET SHUT-OFF VALVE. A STRAINER SHALL BE INSTALLED IMMEDIATELY UPSTREAM OF THIS BFP, UNLESS THIS BFP IS DIRECTLY DOWNSTREAM OF THE METER.

NOTE: ALL COMPONENTS OF THE ASSEMBLY SHALL BE CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY. THE DC BFP-ASSEMBLY SHALL HAVE APPROVAL AND CONFORM TO ALL CURRENT REQUIREMENTS OF THE UNIVERSITY OF SOUTHERN CALIFORNIA, FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH (USC-FCCCHR), ASSEMBLY TO BE INDIVIDUALLY FACTORY TESTED, SHIPPED AND INSTALLED AS A UNIT.

INSTALLATION INSTRUCTIONS: THE DC BFP ASSEMBLY SHALL NOT BE BURIED IN EARTH BUT INSTALLED BELOW GROUND IN CONCRETE VAULT AS CLOSE AS PRACTICAL TO THE PROPERTY LINE OF THE PREMISES TO THE DOWNSTREAM OF THE WATER METER, AND CUT OF RIGHT-OF-WAY. NO OTHER ASSEMBLY IS ALLOWED TO BE INSTALLED IN THE VAULT FOR DC BFP ASSEMBLY. PRIOR APPROVAL IS REQUIRED FOR INTERIOR INSTALLATION OF BFP ASSEMBLY.

NOTE: UNDER NO CIRCUMSTANCES WILL A BY-PASS OR ANY INTERVENING CONNECTION BE ALLOWED BETWEEN THE WATER METER AND THE DC BFP ASSEMBLY UNLESS THAT CONNECTION IS PROTECTED BY AN APPROVED BFP ASSEMBLY.

CAUTION: SECTION 607.3, THERMAL EXPANSION CONTROL, NOTED IN THE 2006 INTERNATIONAL PLUMBING CODE, ADOPTED AS THE STATE OF GEORGIA PLUMBING CODE (WITH CURRENT AMENDMENTS) SHOULD BE INCORPORATED IN THE DESIGN OF INSTALLATIONS AND DULY NOTED ON ALL APPLICABLE DRAWINGS PRIOR TO THE INSTALLATION OF ANY (NUKE CHECKING DEVICES).

NOTE: DOMESTIC DC-BFPAs SHALL BE LEAD FREE.

ASSEMBLY TESTING: ALL DC BFP'S SHALL BE FIELD TESTED FOLLOWING INSTALLATION, REPAIR, OR RELOCATION, AND AT LEAST ANNUALLY THEREAFTER.

PLAN APPROVAL AND INSPECTION: PLAN APPROVAL MUST BE OBTAINED AND INSPECTION SCHEDULED PRIOR TO WORK, THROUGH DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT. CONTACT BACKFLOW PREVENTION SECTION AT (404) 687-4075 FOR BACKFLOW INSPECTION PRIOR TO INSTALLATION.

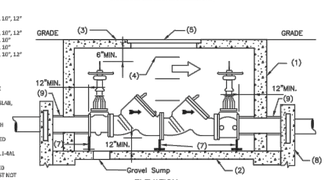
TYPICAL VAULT INSTALLATION
(MINIMUM CLEARANCE DIMENSIONS)

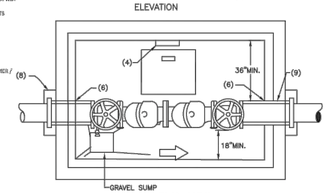
APPROVED ASSEMBLY (OR EQUIVALENT):

AMES	3000SS	2.5", 3", 4", 6", 8", 10", 12"
BACKFLOW DIRECT DERRINGER		2.5", 3", 4", 6", 8"
COMBMACO	DC2-4AA	2.5", 3", 4", 6", 8", 10", 12"
FEBCO	LF850	2.5", 3", 4", 6", 8", 10"
WATTS	LF7000	2.5", 3", 4", 6", 8", 10"
WILKINS	350	2.5", 3", 4", 6", 8", 10", 12"

VAULT SPECIFICATIONS:

1. VAULT SHALL BE PRECAST REINFORCED CONCRETE WITH A MINIMUM THICKNESS OF 6" INCH.
2. VAULT BOTTOM SHALL BE 6" POURED CONCRETE SLAB, SLOPED TO 12" x 12" GRAVEL SUMP. SLAB TO BE POURED ON 12" OF NO. 57 COMPACTED STONE.
3. VAULT TOP SHALL BE REINFORCED CONCRETE WITH 30" x 30" ACCESS OPENING OFFSET TO ONE SIDE.
4. ACCESS LADDER DOWELED TO WALL AND CENTERED AT ACCESS OPENING.
5. HATCH COVER, BILCO-ALUMINUM SINGLE, MODEL J-AAL OR EQUIVALENT.
6. VAULT INLET/OUTLET PIPE OPENINGS TO BE SEALED WITH NON-SHRINK GROUT OR MORTAR. PIPE MUST NOT SUPPORT VAULT.
7. BFP ASSEMBLY TO BE SUPPORTED AT THREE POINTS WITH PIPE STAND.
8. THRUST BLOCKING, AS REQUIRED, MUST BE IN ACCORDANCE WITH DCDAWM SPECIFICATIONS.
9. THRUST TIE RODS SHALL BE BITUMASTIC COATED. ALL PIPE AND FITTINGS OF DUCTILE IRON.
10. VAULT TO BE INSTALLED ON OWNER'S PRIVATE PROPERTY.
11. ALL MATERIALS TO BE FURNISHED BY THE CUSTOMER / OWNER.





STANDARD DETAILS
DC BFP INSTALLATION
2 1/2 INCHES AND LARGER
NOT TO SCALE
09/17
DETAIL NO. W-010

MINIMUM CONTAINMENT PROTECTION REQUIREMENT
NEW CONSTRUCTION AND RETROFIT INSTALLATIONS
SERVICE SIZE: ¾ INCH THRU 2 INCH METER SIZE: ¾ INCH THRU 2 INCH
REDUCED PRESSURE PRINCIPLE ASSEMBLY (RPP)

SPECIFICATION: THE CUSTOMER/OWNER SHALL FURNISH AND INSTALL A REDUCED PRESSURE PRINCIPLE (RPP) BACKFLOW PREVENTION ASSEMBLY (BFP) IN A SIZE TO MATCH THAT OF THE REQUIRED SERVICE LINE CONNECTION. THE RPP BFP ASSEMBLY SHALL INCLUDE A FULL PORT BALL VALVE ON THE INLET AND OUTLET SIDES WITH A UNION BETWEEN THE ASSEMBLY AND EACH VALVE. THE ASSEMBLY SHALL HAVE THREE BALL VALVE TEST COCKS IN AN ACCEPTABLE POSITION FITTED WITH BRASS OR PLASTIC THREADED PLUGS. A FOURTH TEST COCK SHALL ALSO BE PROVIDED ON THE UPSTREAM SIDE OF THE INLET SHUT-OFF VALVE. A STRAINER SHALL BE INSTALLED IMMEDIATELY UPSTREAM OF THIS BFP, UNLESS THIS BFP IS DIRECTLY DOWNSTREAM OF THE METER.

NOTE: ALL COMPONENTS OF THE ASSEMBLY SHALL BE CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY. THE RPP BFP ASSEMBLY SHALL HAVE APPROVAL AND CONFORM TO ALL CURRENT REQUIREMENTS OF THE UNIVERSITY OF SOUTHERN CALIFORNIA, FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH (USC-FCCCHR), ASSEMBLY TO BE INDIVIDUALLY FACTORY TESTED, SHIPPED AND INSTALLED AS A UNIT.

INSTALLATION INSTRUCTIONS: THE RPP BFP ASSEMBLY SHALL NOT BE INSTALLED BELOW GROUND. INSTALL ABOVE GROUND AS CLOSE AS PRACTICAL TO THE PROPERTY LINE OF THE PREMISES TO THE DOWNSTREAM OF THE WATER METER, AND OUT OF RIGHT-OF-WAY. AN ABOVE GROUND ENCLOSURE MUST BE PROVIDED FOR PROTECTION FROM FREEZING TEMPERATURES. INSTALL AN APPROVED DRAIN WITH AN AIR GAP WHERE RELIEF VALVE DISCHARGE COULD CAUSE DAMAGE ESPECIALLY WHEN BACKFLOW ASSEMBLIES ARE LOCATED INSIDE THE BUILDINGS. PRIOR APPROVAL IS REQUIRED FOR INSIDE INSTALLATION.

NOTE: UNDER NO CIRCUMSTANCES WILL A BY-PASS OR ANY INTERVENING CONNECTION BE ALLOWED BETWEEN THE WATER METER AND THE RPP BFP USED FOR SYSTEM PROTECTION UNLESS THAT CONNECTION IS PROTECTED BY AN APPROVED BFP.

CAUTION: SECTION 607.3, THERMAL EXPANSION CONTROL, NOTED IN THE 2006 INTERNATIONAL PLUMBING CODE, ADOPTED AS THE STATE OF GEORGIA PLUMBING CODE (WITH CURRENT AMENDMENTS) SHOULD BE INCORPORATED IN THE DESIGN OF INSTALLATIONS AND DULY NOTED ON ALL APPLICABLE DRAWINGS PRIOR TO THE INSTALLATION OF ANY (NUKE CHECKING DEVICES).

NOTE: DOMESTIC RPP-BFPAs SHALL BE LEAD FREE.

ASSEMBLY TESTING: ALL RPP BFP'S SHALL BE FIELD TESTED AFTER INSTALLATION, REPAIR, RELOCATION, AND AT LEAST ANNUALLY THEREAFTER.

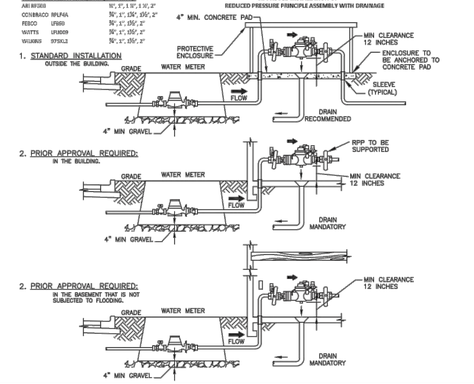
PLAN APPROVAL AND INSPECTION: PLAN APPROVAL MUST BE OBTAINED AND INSPECTION SCHEDULED PRIOR TO WORK, THROUGH DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT. CONTACT BACKFLOW PREVENTION SECTION AT (404) 687-4075 FOR BACKFLOW INSPECTION PRIOR TO INSTALLATION.

APPROVED ASSEMBLYS (OR EQUIVALENT):

AMES	4000SS	¾", 1", 1 ½", 2", 3", 4", 6", 8", 10"
BACKFLOW DIRECT DERRINGER		2.5", 3", 4", 6", 8", 10"
COMBMACO	DC2-4AA	2.5", 3", 4", 6", 8", 10", 12"
FEBCO	LF850	2.5", 3", 4", 6", 8", 10"
WATTS	LF7000	2.5", 3", 4", 6", 8", 10"
WILKINS	350	2.5", 3", 4", 6", 8", 10", 12"

VAULT SPECIFICATIONS:

1. VAULT SHALL BE PRECAST REINFORCED CONCRETE WITH A MINIMUM THICKNESS OF 6" INCH.
2. VAULT BOTTOM SHALL BE 6" POURED CONCRETE SLAB, SLOPED TO 12" x 12" GRAVEL SUMP. SLAB TO BE POURED ON 12" OF NO. 57 COMPACTED STONE.
3. VAULT TOP SHALL BE REINFORCED CONCRETE WITH 30" x 30" ACCESS OPENING OFFSET TO ONE SIDE.
4. ACCESS LADDER DOWELED TO WALL AND CENTERED AT ACCESS OPENING.
5. HATCH COVER, BILCO-ALUMINUM SINGLE, MODEL J-AAL OR EQUIVALENT.
6. VAULT INLET/OUTLET PIPE OPENINGS TO BE SEALED WITH NON-SHRINK GROUT OR MORTAR. PIPE MUST NOT SUPPORT VAULT.
7. BFP ASSEMBLY TO BE SUPPORTED AT THREE POINTS WITH PIPE STAND.
8. THRUST BLOCKING, AS REQUIRED, MUST BE IN ACCORDANCE WITH DCDAWM SPECIFICATIONS.
9. THRUST TIE RODS SHALL BE BITUMASTIC COATED. ALL PIPE AND FITTINGS OF DUCTILE IRON.
10. VAULT TO BE INSTALLED ON OWNER'S PRIVATE PROPERTY.
11. ALL MATERIALS TO BE FURNISHED BY THE CUSTOMER / OWNER.



STANDARD DETAILS
RPP BFP Installation
3/4" to 2"
NOT TO SCALE
09/17
DETAIL NO. W-011

MINIMUM CONTAINMENT PROTECTION REQUIREMENT
NEW CONSTRUCTION AND RETROFIT INSTALLATIONS
SERVICE SIZE: 2 1/2 INCH AND ABOVE METER SIZE: 2 1/2 INCH AND ABOVE
REDUCED PRESSURE PRINCIPLE (RPP) ASSEMBLY

SPECIFICATION: THE CUSTOMER/OWNER SHALL FURNISH AND INSTALL A REDUCED PRESSURE PRINCIPLE (RPP) BACKFLOW PREVENTION ASSEMBLY (BFP) IN A SIZE TO MATCH THAT OF THE REQUIRED SERVICE LINE CONNECTION. THE RPP BFP ASSEMBLY SHALL BE PROVIDED WITH AN EPOXY COATED, RESILIENT SEATED FLANGED OUTSIDE STEM AND YOKE GATE VALVE NEAR THE INLET AND OUTLET SIDES OF THE ASSEMBLY. THE ASSEMBLY SHALL BE PROVIDED WITH THREE BALL VALVE TEST COCKS IN AN ACCEPTABLE POSITION FITTED WITH BRASS OR PLASTIC THREADED PLUGS. A FOURTH TEST COCK SHALL ALSO BE PROVIDED ON THE UPSTREAM SIDE OF THE INLET SHUT-OFF VALVE. A STRAINER SHALL BE INSTALLED IMMEDIATELY UPSTREAM OF THIS BFP, UNLESS THIS BFP IS DIRECTLY DOWNSTREAM OF THE METER.

NOTE: ALL COMPONENTS OF THE ASSEMBLY SHALL BE CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY. THE RPP BFP ASSEMBLY SHALL HAVE APPROVAL AND CONFORM TO ALL CURRENT REQUIREMENTS OF THE UNIVERSITY OF SOUTHERN CALIFORNIA, FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH (USC-FCCCHR), ASSEMBLY TO BE INDIVIDUALLY FACTORY TESTED, SHIPPED AND INSTALLED AS A UNIT.

INSTALLATION INSTRUCTIONS: THE RPP BFP ASSEMBLY SHALL NOT BE INSTALLED BELOW GROUND. INSTALL ABOVE GROUND AS CLOSE AS PRACTICAL TO THE PROPERTY LINE OF THE PREMISES TO THE DOWNSTREAM OF THE WATER METER, AND OUT OF RIGHT-OF-WAY. AN ABOVE GROUND ENCLOSURE MUST BE PROVIDED FOR PROTECTION FROM FREEZING TEMPERATURES. INSTALL AN APPROVED DRAIN WITH AN AIR GAP WHERE RELIEF VALVE DISCHARGE COULD CAUSE DAMAGE ESPECIALLY WHEN BACKFLOW ASSEMBLIES ARE LOCATED INSIDE THE BUILDINGS. PRIOR APPROVAL IS REQUIRED FOR INSIDE INSTALLATION. ASSEMBLY SHALL BE SUPPORTED AT A MINIMUM OF THREE POINTS AND SHALL NOT BLOCK THE RELIEF VENT FROM FUNCTIONING.

NOTE: UNDER NO CIRCUMSTANCES WILL A BY-PASS OR ANY INTERVENING CONNECTION BE ALLOWED BETWEEN THE WATER METER AND THE RPP BFP USED FOR SYSTEM PROTECTION UNLESS THAT CONNECTION IS PROTECTED BY AN APPROVED BFP.

CAUTION: SECTION 607.3 THERMAL EXPANSION CONTROL, NOTED IN THE 2006 INTERNATIONAL PLUMBING CODE 2006, ADOPTED AS THE STATE OF GEORGIA PLUMBING CODE (WITH CURRENT COMBINED AMENDMENTS) SHOULD BE INCORPORATED IN THE DESIGN OF INSTALLATIONS AND DULY NOTED ON ALL APPLICABLE DRAWINGS PRIOR TO THE INSTALLATION OF ANY (NUKE CHECKING DEVICES).

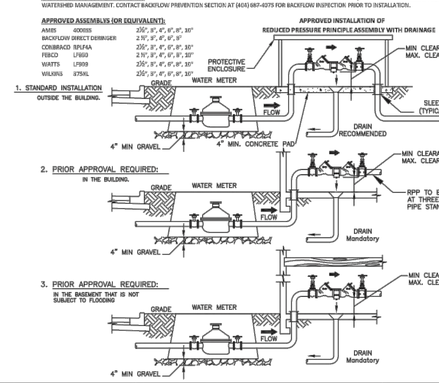
NOTE: DOMESTIC RPP-BFPAs SHALL BE LEAD FREE.

ASSEMBLY TESTING: ALL RPP BFP'S SHALL BE FIELD TESTED AFTER INSTALLATION, REPAIR, RELOCATION, AND AT LEAST ANNUALLY THEREAFTER.

PLAN APPROVAL AND INSPECTION: PLAN APPROVAL MUST BE OBTAINED AND INSPECTION SCHEDULED PRIOR TO WORK, THROUGH DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT. CONTACT BACKFLOW PREVENTION SECTION AT (404) 687-4075 FOR BACKFLOW INSPECTION PRIOR TO INSTALLATION.

APPROVED ASSEMBLYS (OR EQUIVALENT):

AMES	4000SS	2.5", 3", 4", 6", 8", 10"
BACKFLOW DIRECT DERRINGER		2.5", 3", 4", 6", 8"
COMBMACO	RPLF4A	2.5", 3", 4", 6", 8", 10"
FEBCO	LF860	2.5", 3", 4", 6", 8", 10"
WATTS	LF909	2.5", 3", 4", 6", 8", 10"
WILKINS	375XL	2.5", 3", 4", 6", 8", 10"



STANDARD DETAILS
RPP BFP Installation
2 1/2 Inches And Larger
NOT TO SCALE
09/17
DETAIL NO. W-012

PREPARED BY
Kimley»Horn
© 2019 KIMLEY-HORN AND ASSOCIATES, INC.
11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
PHONE: (770) 645-4500
WWW.KIMLEY-HORN.COM

PREPARED FOR
HIGH STREET DEVELOPMENT LLC
125 HIGH STREET, HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110
PHONE: (617) 854-6641

NO.	ISSUANCE AND REVISION DESCRIPTIONS	DATE	BY

PROJECT
HIGH STREET - PHASE 1
211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND DRIVE, 30346
LAND LOT 348, 18TH DISTRICT

GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. PE044139
DEREK M. ZITTRAUER

GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

TITLE
WATER DETAILS

SHEET NUMBER
C6-50

Drawing name: K:\ALP_PRJ\019473000_GID - High Street\CADD\PlanSheets\Phase 1\C6-50 - WATER CONSTRUCTION DETAILS.DWG Aug 16, 2019 2:03pm by: russell.noah

MINIMUM CONTAINMENT REQUIREMENTS FOR NEW CONSTRUCTION AND RETROFIT (DEDICATED) FIRELINE INSTALLATIONS
SERVICE SIZE: 2 1/2" AND ABOVE METER SIZE: 2 1/2" AND ABOVE
REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA)

SPECIFICATION: THE CUSTOMER / OWNER SHALL FURNISH AND INSTALL A REDUCED PRESSURE DETECTOR ASSEMBLY BACKFLOW PREVENTER IN A SIZE TO MATCH THAT OF THE REQUIRED FIRE LINE SERVICE LINE CONNECTION. THE ASSEMBLY SHALL HAVE A METERED THREE QUARTER INCH (3/4") BYPASS LINE AS SHOWN ON THE ILLUSTRATION. THE RPDA BACKFLOW PREVENTION ASSEMBLY SHALL BE PROVIDED WITH A RESILIENT SEATED OUTSIDE STEM AND YOKE FLANGED GATE VALVE NOW THE INLET AND OUTLET SIDES OF THE ASSEMBLY. THE ASSEMBLY SHALL BE PROVIDED WITH THREE BRASS SHALL VALVE TEST COCKS FITTED WITH BRASS OR PLASTIC THREADED PLUGS. A FOURTH TEST COCK SHALL ALSO BE PROVIDED ON THE UPSTREAM SIDE OF THE INLET SHUT-OFF VALVE. THE METERED BYPASS LINE ON THE ASSEMBLY SHALL INCLUDE A BRONZE DETECTOR METER AND A REDUCED PRESSURE PRINCIPAL (RPP) BACKFLOW PREVENTION ASSEMBLY. THE ASSEMBLY AND BODIES SHALL BE EQUIVALENT TO CAST IRON COATED INSIDE AND CUT WITH FDA APPROVED FUSED EPOXY COATING AND ASSEMBLED WITH BOLTS THAT ARE RESISTANT TO ELECTROLYSIS. ALL INTERIOR COMPONENTS OF THE CHECKING ASSEMBLY SHALL BE EQUIVALENT TO BRONZE OR STAINLESS STEEL CONSTRUCTION AND BE ACCESSIBLE FOR MAINTENANCE AND REPAIR.

NOTE: ALL COMPONENTS OF THE ASSEMBLY SHALL BE CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY, THE REDUCED PRESSURE DETECTOR ASSEMBLY SHALL HAVE APPROVAL AND CONFORM TO ALL CURRENT REQUIREMENTS OF THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH (USC-FCCCHR). ASSEMBLY TO BE INDIVIDUALLY FACTORY TESTED, SHIPPED AND INSTALLED AS A UNIT.

NOTE: BEFORE INSTALLING BACKFLOW ASSEMBLY ON ANY FIRE SYSTEM CONSULT WITH THE FIRE AUTHORITY FOR ADDITIONAL REQUIREMENTS. (IE: OS &Y SHUTOFFS, ALARMS ETC.)

INSTALLATION INSTRUCTIONS: INSTALLATION OF A REDUCED PRESSURE DETECTOR ASSEMBLY BACKFLOW PREVENTION ASSEMBLY SHALL NOT BE BELOW GRADE. ASSEMBLY SHALL BE INSTALLED ABOVE GROUND AS CLOSE AS PRACTICAL TO THE PROPERTY LINE AND OUT OF THE RIGHT OF WAY. AN ABOVE GROUND ENCLOSURE SHALL BE PROVIDED FOR PROTECTION FROM FREEZING TEMPERATURES. INSTALL AN APPROVED DRAIN WITH AN AIR GAP. A CONCRETE PAD SHALL BE POURED WITH A MINIMUM OF FOUR (4) INCHES DEPTH. ASSEMBLY SHALL BE SUPPORTED AT A MINIMUM OF THREE (3) POINTS AND NOT BLOCKING THE RELIEF VALVE.

NOTE: UNDER NO CIRCUMSTANCE WILL ANY CONNECTION BE ALLOW ON THE SYSTEM OTHER THAN FOR FIREFIGHTING OR FIRE PROTECTION PURPOSES

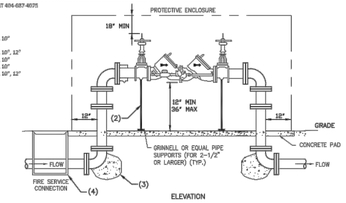
ASSEMBLY TESTING: ALL RPDA ASSEMBLIES SHALL BE TESTED AT TIME OF INSTALLATION, AFTER EACH REPAIR ASLOCTION AND AT LEAST ONCE ANNUALLY

PLAN APPROVALS AND INSPECTIONS: SHALL BE OBTAINED AND SCHEDULED PRIOR TO WORK THROUGH DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT. CONTACT CROSS- CONNECTION CONTROL SECTION AT 404-687-4015

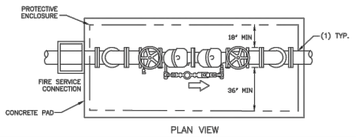
APPROVED ASSEMBLIES (OR EQUIVALENT):

AMES	3000	2.5", 3", 4", 6", 8", 10"
BACKFLOW DIRECT DESIGNER		2.5", 3", 4", 6", 8"
Apollo/ACME/NIBCO	RPDA/LF4A	2.5", 3", 4", 6", 8", 10", 12"
FEBCO	826 TYPE TO	2.5,"3", 4", 6", 8", 10"
WATTS	909 RPDA	2.5", 3", 4", 6", 8", 10"
WILKINS	375ASA	2.5", 3", 4", 6", 8", 10", 12"

1. VAULT INLET/OUTLET PIPE OPENINGS TO BE SEALED WITH GROUT OR MORTAR. PIPE MUST NOT SUPPORT VAULT.
2. BFP ASSEMBLY TO BE SUPPORTED AT THREE POINTS WITH PIPE STANDS. THE THIRD PIPE STAND SHALL BE INSTALLED IN THE LOCATION APPROVED BY DWM, (BACKFLOW SECTION).
3. THRUST BLOCKING, AS REQUIRED, MUST BE IN ACCORDANCE WITH DCDWM SPECIFICATIONS.
4. THRUST TIE RODS SHALL BE BITUMASTIC COATED. ALL PIPES AND FITTINGS OF DUCTILE IRON.
5. ALL MATERIALS TO BE FURNISHED BY THE CUSTOMER/OWNER.

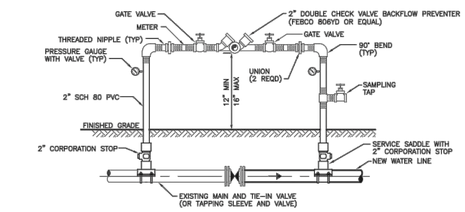


ELEVATION



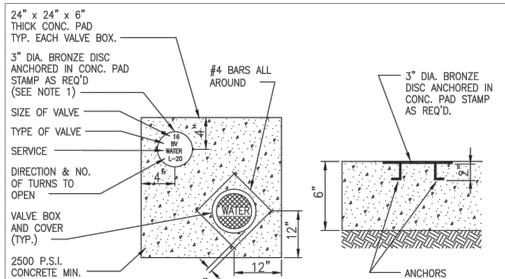
PLAN VIEW

STANDARD DETAILS
RPDA BFP Installation 2 1/2 Inches And Larger
NOT TO SCALE
09/17
DETAIL NO. W-013

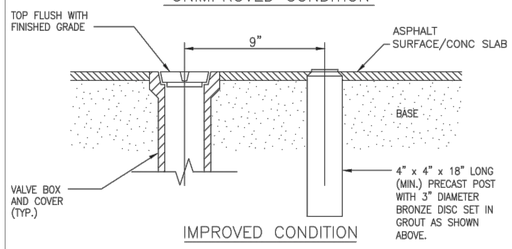


NOTES:
1. A TEMPORARY JUMPER CONNECTION IS REQUIRED AT ALL CONNECTIONS BETWEEN EXISTING ACTIVE WATER MAINS AND PROPOSED WATER MAINS.
2. THIS DETAIL IS TO BE USED FOR FILLING ANY NEW WATER MAIN AND FOR FLUSHING OF NEW MAINS UP TO 8" DIAMETER (2.5 FPS MINIMUM VELOCITY), AND FOR BACTERIOLOGICAL SAMPLING POINTS AT THE ENDS OF THE PROPOSED MAINS. THE JUMPER CONNECTIONS SHALL BE MAINTAINED UNTIL AFTER FILLING, FLUSHING, TESTING, AND DISINFECTION OF THE PROPOSED MAIN HAS BEEN SUCCESSFULLY COMPLETED AND CLEARANCE FOR USE FROM THE DCDWM HAS BEEN RECEIVED. THIS JUMPER CONNECTION SHALL ALSO BE USED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI IN THE PROPOSED MAINS AFTER DISINFECTION AND UNTIL THE CLEARANCE LETTER IS OBTAINED.
3. FLUSHING OF THE 10" DIAMETER AND LARGER WATER MAIN MAY BE DONE THROUGH THE TIE-IN VALVE UNDER VERY CONTROLLED CONDITIONS, AS FOLLOWS:
   A. THE TIE-IN VALVES SHALL BE OPERATED AND PRESSURE TESTED IN THE PRESENCE OF DCDWM AND ENGINEER TO VERIFY WATER TIGHTNESS PRIOR TO TIE-IN. VALVES WHICH ARE NOT WATERTIGHT SHALL BE REPLACED.
   B. THE TEMPORARY JUMPER CONNECTION SHALL BE CONSTRUCTED AS DETAILED. THE JUMPER CONNECTION SHALL BE USED TO FILL THE NEW MAIN AND FOR BACTERIOLOGICAL SAMPLING OF THE NEW MAIN AS REQUIRED BY THE DCDWM PERMIT.
      – FLUSHING SHALL NOT BE ATTEMPTED DURING PEAK DEMAND HOURS OF THE EXISTING WATER MAINS.
      – ALL DOWNSTREAM VALVES IN THE NEW SYSTEM MUST BE OPEN PRIOR TO OPENING THE TIE-IN VALVE.
      – MONITOR THE PRESSURE AT THE TIE-IN POINT. THE PRESSURE IN THE EXISTING MAIN MUST NOT DROP BELOW 35 PSI.
      – TIE-IN VALVE SHALL BE OPENED A FEW TURNS ONLY ENSURING A PRESSURE DROP ACROSS THE VALVE IS ALWAYS GREATER THAN 10 PSI.
   C. THE TIE-IN VALVE SHALL BE LOCKED CLOSED UNTIL FLUSHING BEGINS.
   D. THE TIE-IN VALVE SHALL BE OPENED ONLY FOR FLUSHING OF THE NEW MAIN. THE PROCEDURE SHALL BE DIRECTED BY THE DCDWM.
   E. AFTER FLUSHING, THE TIE-IN VALVE SHALL BE CLOSED AND LOCKED IN THE CLOSED POSITION.
4. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION DEMONSTRATING THAT THE DOUBLE CHECK VALVE BACKFLOW PREVENTION DEVICE HAS BEEN TESTED AND IS IN GOOD WORKING ORDER AT THE TIME OF INSTALLATION.
5. EXCEPT AS REQUIRED TO FLUSH LINES GREATER THAN 8" IN DIAMETER, THE TIE-IN VALVE SHALL REMAIN LOCKED CLOSED UNTIL THE NEW SYSTEM HAS BEEN CLEARED FOR USE BY ALL PERTINENT AGENCIES.
6. UPON RECEIPT OF CLEARANCE FOR USE FROM DCDWM, THE CONTRACTOR SHALL REMOVE THE TEMPORARY JUMPER CONNECTION. STOPS ARE TO BE CLOSED AND PLUGGED WITH 2" BRASS PLUGS.
7. ALL INSTALLATION AND MAINTENANCE OF THE TEMPORARY JUMPER CONNECTION AND ASSOCIATED BACKFLOW PREVENTION DEVICE, FITTINGS, VALVE, ETC. SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

STANDARD DETAILS
Temporary Disinfection Jumper Installation Detail
NOT TO SCALE
09/17
DETAIL NO. W-015



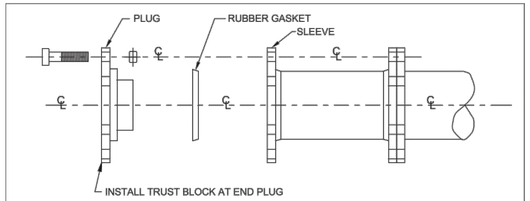
UNIMPROVED CONDITION



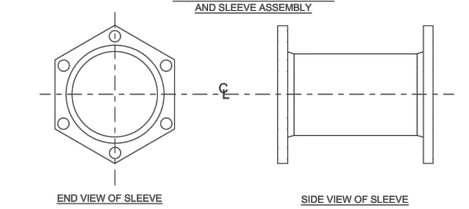
IMPROVED CONDITION

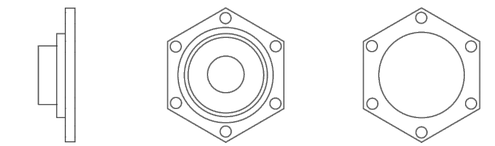
NOTES:
1. BRONZE IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES 16" AND LARGER, OR AS REQUIRED BY DCDWM.
2. VALVE COLLAR DIMENSIONS MAY BE REDUCED TO 18" X 18" X 6" WHEN THE BRONZE IDENTIFICATION DISC IS NOT REQUIRED.

STANDARD DETAILS
Valve Cover and Marker Disc
NOT TO SCALE
09/17
DETAIL NO. W-023

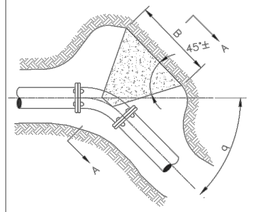


SIDE VIEW OF END-OF-LINE PLUG AND SLEEVE ASSEMBLY

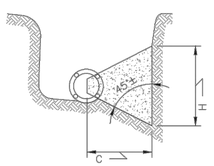




STANDARD DETAILS
End of Water Line Plug & Sleeve Assembly
NOT TO SCALE
09/17
DETAIL NO. W-024



PLAN

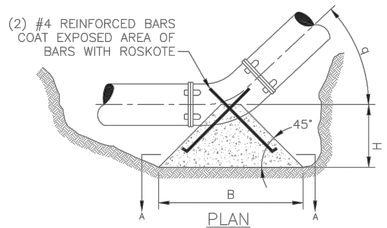


SECTION A–A

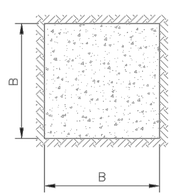
FITTING θ	(IN)	B (FT)	H (FT)	C (FT)	VOL (YD³)
11–1/4	6	0.9	0.8	0.45	0.010
	8	1.2	1.1	0.60	0.022
	10	1.5	1.3	0.75	0.041
	12	1.8	1.6	0.90	0.071
	16	2.3	2.2	1.15	0.149
22–1/2	6	1.3	1.1	0.65	0.023
	8	1.6	1.6	0.80	0.048
	10	2.1	1.9	1.05	0.097
	12	2.5	2.3	1.25	0.165
	16	3.3	3.0	1.65	0.362
45	6	1.7	1.6	0.85	0.050
	8	2.2	2.2	1.10	0.113
	10	2.8	2.7	1.40	0.222
	12	3.3	3.3	1.65	0.375
	16	4.5	4.3	2.25	0.887
90	6	2.3	2.2	1.15	0.118
	8	3.1	2.9	1.55	0.278
	10	3.8	3.7	1.90	0.530
	12	4.6	4.4	2.30	0.921
	16	6.1	5.9	3.05	2.142
TEES	6	2.1	1.8	1.00	0.073
	8	2.6	2.5	1.30	0.170
	10	3.2	3.1	1.60	0.319
	12	3.9	3.7	1.95	0.565
	16	5.1	5.0	2.55	1.303

NOTES:
1. DIMENSIONS OF THRUST BLOCKS WERE CALCULATED ASSUMING A STATIC PRESSURE OF 250 PSI AND A SOIL BEARING PRESSURE OF 2,000 PSF.
2. DIMENSIONS SHOWN CAN BE VARIED AS FIELD CONDITIONS DICTATE, BUT IT IS IMPORTANT THAT THE CORRECT VOLUME AS SHOWN IN TABLE BE USED AND THAT ALLOWABLE SOIL BEARING PRESSURE NOT BE EXCEEDED.
3. IT IS THE RESPONSIBILITY OF THE DESIGN ENGINEER TO VERIFY THAT THE THRUST BLOCKS IN THE CHART MEET THE REQUIRED FORCES THAT ARE ASSOCIATED WITH THE PROPOSED WATER LINE OR FORCE MAIN.

STANDARD DETAILS
Blocking Detail Horizontal Thrust Water and Forcemain
NOT TO SCALE
09/17
DETAIL NO. G-001



PLAN

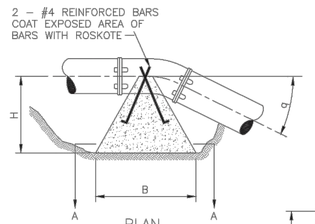


SECTION A–A

FITTING θ	DIA (IN)	B (FT)	H (FT)	VOL (YD³)
11–1/4	6	1.0	0.3	0.008
	8	1.2	0.4	0.012
	10	1.5	0.6	0.026
	12	1.9	0.8	0.055
	16	2.4	1.0	0.110
22–1/2	6	1.3	0.5	0.017
	8	1.7	0.7	0.039
	10	2.1	0.9	0.075
	12	2.5	1.1	0.129
	16	3.2	1.6	0.308
45	6	1.7	0.7	0.039
	8	2.2	0.9	0.083
	10	2.7	1.2	0.164
	12	3.3	1.5	0.305
	16	4.3	2.0	0.688

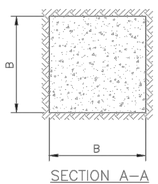
NOTE:
1. DIMENSIONS OF THRUST BLOCKS WERE CALCULATED ASSUMING A STATIC PRESSURE OF 250 PSI, A DEPTH OF COVER OF 4 FT., AND A SOIL BEARING PRESSURE OF 2,000 PSF.
2. DIMENSIONS SHOWN CAN BE VARIED AS FIELD CONDITIONS DICTATE, BUT IT IS IMPORTANT THAT THE CORRECT VOLUME AS SHOWN IN TABLE BE USED AND THAT ALLOWABLE SOIL BEARING PRESSURE NOT BE EXCEEDED.
3. IT IS THE RESPONSIBILITY OF THE DESIGN ENGINEER TO VERIFY THAT THE THRUST BLOCKS IN THE CHART MEET THE REQUIRED FORCES THAT ARE ASSOCIATED WITH THE PROPOSED WATER LINE OR FORCE MAIN.

STANDARD DETAILS
Blocking Detail Downward Thrust
NOT TO SCALE
09/17
DETAIL NO. G-002



PLAN

FITTING θ	DIA (IN)	B (FT)	H (FT)	VOL (YD³)
11–1/4	6	3.0	2.2	0.4
	8	3.5	2.4	0.6
	10	4.0	3.2	1.0
	12	4.5	3.5	1.4
	16	5.0	4.8	2.4
22–1/2	6	3.5	2.9	0.7
	8	4.0	3.9	1.2
	10	4.5	4.6	1.9
	12	5.5	4.8	2.7
	16	6.5	5.9	4.8
45	6	4.5	3.4	1.3
	8	5.0	4.6	2.2
	10	6.0	5.1	3.5
	12	6.5	6.2	5.0
	16	8.0	7.3	8.8



SECTION A–A

NOTES:
1. VOLUME WAS CALCULATED NEGLECTING WEIGHT OF FITTING, WATER, AND BACKFILL USING A STATIC PRESSURE OF 250 PSI.
2. DIMENSIONS OF BLOCK WERE CALCULATED ASSUMING A SOIL BEARING PRESSURE OF 2,000 POUNDS PER SQUARE FOOT.
3. DIMENSIONS SHOWN CAN BE VARIED AS FIELD CONDITIONS DICTATE, BUT IT IS IMPORTANT THAT THE CORRECT VOLUME AS SHOWN IN TABLE BE USED AND THAT ALLOWABLE SOIL BEARING PRESSURE NOT BE EXCEEDED.
4. IT IS THE RESPONSIBILITY OF THE DESIGN ENGINEER TO VERIFY THAT THE THRUST BLOCKS IN THE CHART MEET THE REQUIRED FORCES THAT ARE ASSOCIATED WITH THE PROPOSED WATER LINE OR FORCE MAIN.

STANDARD DETAILS
Blocking Detail Upward Thrust
NOT TO SCALE
09/17
DETAIL NO. G-003

PREPARED BY
Kimley»Horn

11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
PHONE: (770) 569-4200
WWW.KIMLEY-HORN.COM

PREPARED FOR
HIGH STREET DEVELOPMENT LLC
125 HIGH STREET, HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110
PHONE: (617) 854-6641

No.	ISSUANCE AND REVISION DESCRIPTIONS	DATE	BY

PROJECT
HIGH STREET - PHASE 1
211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND DRIVE, DUNWOODY, GA 30346
LAND LOT 348, 18TH DISTRICT

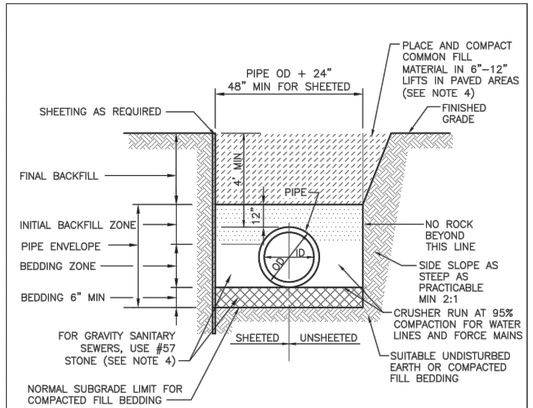
GEORGIA REGISTERED No. PE0041139 PROFESSIONAL ENGINEER MAREK M. ZITTRAUER

GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

TITLE
WATER DETAILS

SHEET NUMBER
C6-51

Drawing name: K:\ALP_PRJ\019473000_GID - High Street\CADD\PlanSheets\Phase 1\C6-50 - WATER CONSTRUCTION DETAILS.DWG C6-51 WATER DETAILS Aug 16, 2019 2:03pm by: russell.noah



NOTES:

1. SEE DESIGN STANDARDS FOR ADDITIONAL BEDDING AND TRENCH BACKFILL REQUIREMENTS.
2. DEPTH OF COVER OVER WATER MAINS, FORCE MAINS AND GRAVITY SANITARY SEWERS SHALL BE 4'–0" AS MEASURED FROM TOP OF PAVEMENT OR FINISHED GRADE TO TOP OF PIPE.
3. NO ROCK, ONLY BEDDING MATERIAL IN BACKFILL FOR FIRST 2'–0" ABOVE TOP OF PIPE.
4. BEDDING AND BACKFILL TO BE CRUSHER RUN AT 95% COMPACTION UNDER ALL PAVING FROM 12" ABOVE THE TOP OF PIPE TO THE BOTTOM OF THE CONCRETE ROAD CAP.
5. BACKFILL TO BE FREE OF ORGANICS, OBJECTIONABLE MATERIAL AND STONES LARGER THAN 3" IN ITS LONGEST DIMENSION.

DeKalb County GEORGIA

STANDARD DETAILS

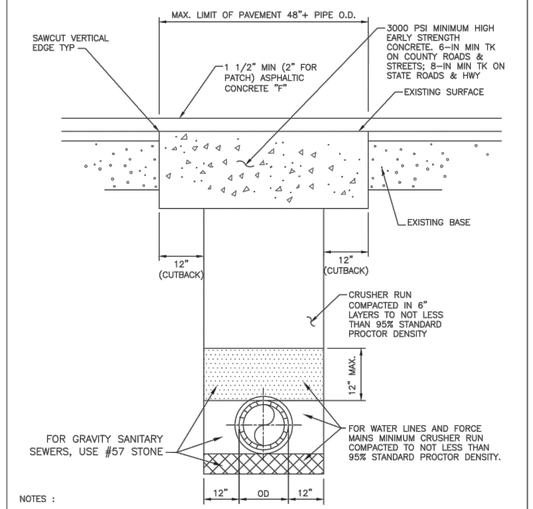
Backfill and Allowable Trench Widths Detail

NOT TO SCALE

09/17

WATER matters

DETAIL NO. G-004



NOTES :

1. SAW CUT EXISTING PAVEMENT TO PROVIDE STRAIGHT VERT. JOINTS.
2. SURFACES TO BE CLEANED AND BITUMINOUS TACK COAT APPLIED BEFORE PLACEMENT OF ASPHALTIC TOP.
3. FOR EXIST SURFACE OF PORTLAND CEMENT CONCRETE, FURNISH NEW SURFACE OF 3000 PSI MINIMUM HIGH EARLY STRENGTH CONCRETE.
4. ON LONGITUDINAL CUTS EXCEEDING 100 FEET, THE CONC IN THE TRENCH SHALL BE BROUGHT FLUSH WITH THE EXISTING PAVEMENT AND THE ENTIRE WIDTH OF ROADWAY RESURFACED W/ 1–1/2 IN MIN THK OF ASPHALTIC CONC.

DeKalb County GEORGIA

STANDARD DETAILS

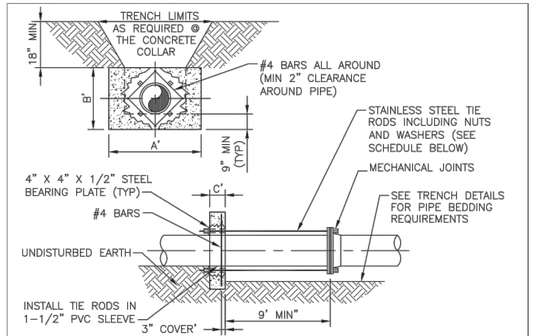
Typical Patch and Resurfacing Detail

NOT TO SCALE

09/17

WATER matters

DETAIL NO. G-005



SCHEDULE OF DIMENSIONS AND MATERIALS					
PIPE SIZE (INCHES)	DIMENSIONS (FT.)			TIE RODS REQ'D	
	A	B	C	DIA. INCHES	NO.
6	2.0	2.0	1.0	3/4	2
8	2.5	2.5	1.0	3/4	2
10	3.5	3.0	1.0	3/4	2
12	5.0	3.0	1.0	3/4	2
16	6.0	4.0	1.5	3/4	4
20	8.0	5.0	1.5	3/4	6
24	9.0	6.0	1.5	3/4	8
NOTE: THRUST COLLAR AREAS TO BE COMPUTED ON BASIS OF 2000 LBS/SF SOIL RESTRAINT BEARING.					

NOTES:
1. ADDITIONAL REINFORCEMENTS SHALL BE AS SPECIFIED BY THE ENGINEER.
2. MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE SHALL BE 3000 PSI.
3. BEDDING, BACKFILL AND COMPACTION SHALL BE AS SPECIFIED ELSEWHERE IN THE STANDARDS.
4. ALL FORM BOARDS SHALL BE REMOVED PRIOR TO BACKFILL.
5. NO ALLOWANCE SHALL BE MADE FOR FRICTION BETWEEN THE PIPE WALL AND THE THRUST COLLAR.
6. DESIGN PRESSURE:150 PSI.
7. PIPE SIZE GREATER THAN 24" DIAMETER SHALL HAVE THRUST RESTRAINT DESIGNED BY A REGISTERED P.E.

DeKalb County GEORGIA

STANDARD DETAILS

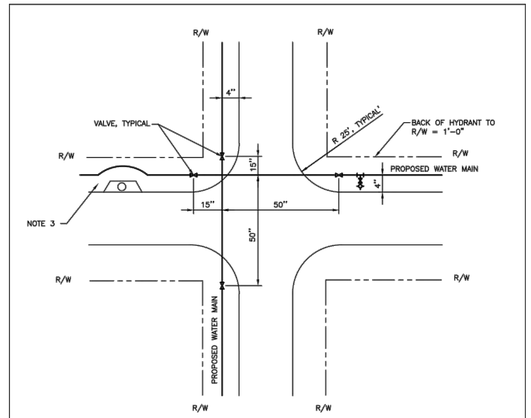
Thrust Restraint (150 psi) Tie-rod Installation Detail

NOT TO SCALE

09/17

WATER matters

DETAIL NO. G-008



NOTES:

1. IF RADIUS IS NOT 25' ADJUST PIPE LENGTHS SO THAT VALVES ARE NOT IN STREET.
2. VALVES TO BE A MINIMUM OF 2'–0" FROM BACK OF CURB TO TOP SECTION OF BOX CONCRETE COLLAR. SEE DETAIL W–23.
3. WHEN GOING AROUND CATCH BASIN, USE 3 JOINTS OF PIPE, CENTERED, AND CHANGE ALIGNMENT BY DEFLECTING EACH JOINT. MAXIMUM DEFLECTION TO BE NO MORE THAN 4 DEGREES PER JOINT. PIPE SHALL CLEAR OUTSIDE WALL OF CATCH BASIN BY 4" MINIMUM.

DeKalb County GEORGIA

STANDARD DETAILS

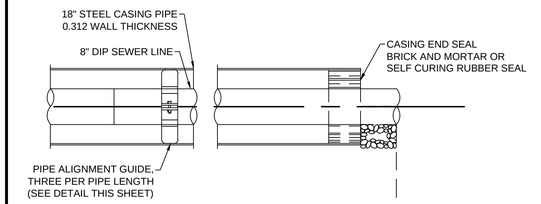
Intersection Detail Valve Locations

NOT TO SCALE

09/17

WATER matters

DETAIL NO. W-016

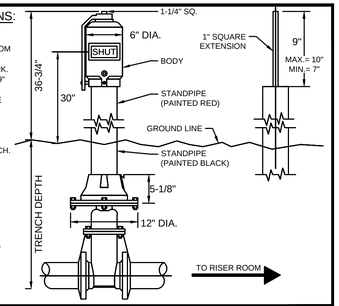


TYPICAL CASING DETAIL

SCALE: NTS

FIELD ADJUSTMENT INSTRUCTIONS:

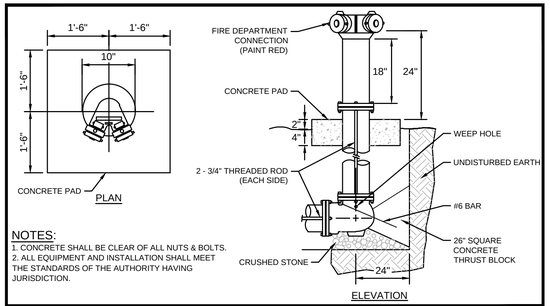
1. REMOVE THE BODY FROM THE TOP OF THE INDICATOR POST ASSEMBLY.
2. CUT THE REQUIRED LENGTH OFF OF THE BOTTOM OF THE STANDPIPE FOR THE GROUND LINE TO MATCH UP WITH STANDPIPE GROUND LINE MARK.
3. CUT THE 1" SQ. EXTENSION AT A DISTANCE OF 9" ABOVE THE TOP OF THE STANDPIPE.
4. SET THE "OPEN" AND "SHUT" TARGETS FOR THE APPROPRIATE VALVE SIZE.
5. RE-ATTACH THE BODY TO THE TOP OF THE INDICATOR POST ASSEMBLY.
6. ALL PIV(S) SHALL BE INSTALLED WITH AN ELECTRONICALLY CONTROLLED TAMPER SWITCH.



NOTES:

1. POST INDICATOR VALVE SHALL BE MADE OF DIP CONSTRUCTION AND BE MANUFACTURED BY MUELLER, CLOW, OR AFC.

POST INDICATOR VALVE ASSEMBLY DETAIL



NOTES:

1. CONCRETE SHALL BE CLEAR OF ALL NUTS & BOLTS.
2. ALL EQUIPMENT AND INSTALLATION SHALL MEET THE STANDARDS OF THE AUTHORITY HAVING JURISDICTION.

FIRE DEPARTMENT CONNECTION DETAIL

PREPARED BY

Kimley»Horn

11720 AMBER PARK DRIVE, SUITE 600
ALPHARETTA, GEORGIA 30009
PHONE: (770) 619-4500
WWW.KIMLEY-HORN.COM

PREPARED FOR

HIGH STREET DEVELOPMENT LLC

125 HIGH STREET, HIGH STREET TOWER, 27TH FLOOR
BOSTON, MA 02110
PHONE: (617) 854-6641

NO.	ISSUANCE AND REVISION DESCRIPTIONS	DATE	BY

PROJECT

HIGH STREET - PHASE 1

211, 219, 223 PERIMETER CENTER PARKWAY & 1051 HAMMOND POINTE, DUNWOODY, GA 30346
LAND LOT 348, 18TH DISTRICT

REGISTERED PROFESSIONAL ENGINEER
GEORGIA
No. PE0041139
DEREK M. ZITTRAUER

GSWCC NO. (LEVEL II)	0000076500
DRAWN BY	KHA
DESIGNED BY	DMZ
REVIEWED BY	LHF
DATE	08/16/2019
PROJECT NO.	019473006

TITLE

WATER DETAILS

SHEET NUMBER

C6-52

Drawing name: K:\ALP_PRJ\019473000_GID - High Street\CADD\PlanSheets\Phase 1\C6-50 - WATER CONSTRUCTION DETAILS.DWG Aug 16, 2019 2:03pm by: russell.noah

ZONING REQUIREMENTS

SEC. 27-233. - LANDSCAPE MATERIAL AND DESIGN.
(A) LANDSCAPING WITH REQUIRED LANDSCAPE AREAS. REQUIRED LANDSCAPED AREAS MUST BE COVERED WITH BIODEGRADABLE MULCH AND GROUND COVER PLANTS.
(B) EXISTING TREES AND VEGETATION. EXISTING NON-INVASIVE TREES AND SHRUBS COUNT TOWARD SATISFYING THE LANDSCAPING AND SCREENING REGULATIONS OF THIS DIVISION IF THEY ARE LOCATED WITHIN THE SUBJECT AREA AND THEY COMPLY WITH THE PLANT HEIGHT AND SIZE REQUIREMENTS OF THIS SECTION.
(C) PLANT SELECTION.
(1) TREES AND PLANTS SELECTED FOR REQUIRED LANDSCAPE AREAS MUST BE WELL-SUITED TO THE MICROCLIMATE AND ON-SITE SOIL CONDITIONS.
(2) TREES AND PLANT MATERIAL MUST COMPLY WITH THE SPECIFICATIONS FOUND IN AMERICAN STANDARDS FOR NURSERY STOCK (ANSI).
(3) INVASIVE SPECIES MAY NOT BE USED TO MEET LANDSCAPE REQUIREMENTS.
(4) IF MORE THAN 30 TREES WILL BE USED, A MIXTURE OF THREE OR MORE TREE SPECIES MUST BE USED. IF MORE THAN 50 SHRUBS WILL BE USED, A MIXTURE OF THREE OR MORE SHRUB SPECIES MUST BE USED.
(5) ALL PLANT MATERIALS ARE SUBJECT TO THE APPROVAL OF THE CITY ARBORIST.
(D) TREES.
(1) DECIDUOUS. DECIDUOUS TREES USED TO SATISFY THE REQUIREMENTS OF THIS DIVISION MUST BE DROUGHT-TOLERANT, HAVE A MINIMUM CALIPER SIZE OF THREE INCHES (MEASURED SIX INCHES ABOVE THE ROOT BALL) AND A MINIMUM HEIGHT OF TEN FEET.
(2) EVERGREEN. EVERGREEN TREES USED TO SATISFY THE REQUIREMENTS OF THIS DIVISION MUST BE DROUGHT-TOLERANT AND HAVE A MINIMUM HEIGHT OF SIX FEET AT TIME OF PLANTING.
(E) SHRUBS AND ORNAMENTAL GRASSES. SHRUBS AND ORNAMENTAL GRASSES USED TO SATISFY THE REQUIREMENTS OF THIS DIVISION MUST [BE] A MINIMUM ONE-GALLON SIZE.
(F) GROUNDCOVER PLANTS. GROUNDCOVER PLANTS ARE DECIDUOUS OR EVERGREEN PLANTS THAT GROW LOW AND SPREAD HORIZONTALLY, NOT INCLUDING TURF. GROUNDCOVER PLANTS USED TO SATISFY THE REQUIREMENTS OF THIS DIVISION MUST BE AT LEAST ONE-GALLON SIZE.
(G) MULCH. ALL REQUIRED TREES AND SHRUBS MUST BE LOCATED WITHIN A (BIODEGRADABLE) MULCHED AREA.
(H) CURBS AND VEHICLE BARRIERS. LANDSCAPED AREAS IN OR ABUTTING PARKING LOTS MUST BE PROTECTED BY CONCRETE CURBING, ANCHORED WHEEL STOPS, OR OTHER DURABLE BARRIERS APPROVED BY THE CITY ARBORIST. ALTERNATIVE BARRIER DESIGNS THAT PROVIDE IMPROVED INFILTRATION OR STORAGE OF STORMWATER ARE ENCOURAGED. CURBS PROTECTING LANDSCAPE AREAS MAY BE PERFORATED, HAVE GAPS OR OTHERWISE BE DESIGNED TO ALLOW STORMWATER RUNOFF TO PASS THROUGH THEM.
(I) INSTALLATION.
(1) ALL LANDSCAPING MUST BE INSTALLED IN A SOUND WORKMANLIKE MANNER AND IN ACCORDANCE WITH ACCEPTED GOOD LANDSCAPEPLANTING PROCEDURES.
(2) NEWLY PLANTED TREES MAY NOT BE STAKED OR GUYED UNLESS THEY ARE UNABLE TO STAND UPRIGHT WITHOUT SUPPORT. ANY STAKING AND GUYING MATERIALS MUST BE REMOVED WITHIN ONE YEAR OF INSTALLATION.
(3) IF THE LANDSCAPE DESIGN INCORPORATES PLANTS THAT REQUIRE SEASONAL WATERING, AN AUTOMATIC IRRIGATION SYSTEM MUST BE PROVIDED TO MAINTAIN THE LANDSCAPING IN HEALTHY, ATTRACTIVE CONDITION.
A. PRESERVED TREES, SHRUBS, AND NATIVE PLANT COMMUNITIES ARE NOT REQUIRED TO BE IRRIGATED, UNLESS DIRECTED BY THE CITY ARBORIST.
B. DRIP IRRIGATION SYSTEMS MUST BE INSTALLED IN AREAS PLANTED WITH TREES, SHRUBS, PERENNIALS AND GROUNDCOVERS. THE CITY ARBORIST MAY APPROVE AN ALTERNATE COMPARABLE SYSTEM IF IT PROVIDES IRRIGATION AT THE GROUND LEVEL RATHER THAN AN UPRIGHT SPRAY.
C. TURF GRASS AREAS MUST BE IRRIGATED ON A DIFFERENT ZONE THAN TREES, SHRUBS, PERENNIALS AND GROUNDCOVERS.
D. MOISTURE SENSOR AND/OR RAIN GAUGE EQUIPMENT IS REQUIRED ON AUTOMATIC IRRIGATION SYSTEMS TO AVOID IRRIGATION DURING PERIODS OF SUFFICIENT RAINFALL.
E. NO SIGNIFICANT IRRIGATION OVERTHROW IS PERMITTED ONTO IMPERVIOUS SURFACES.
F. A WATERING SCHEDULE SHALL BE SUBMITTED AS PART OF THE LANDSCAPE PLAN. THE SCHEDULE SHALL INDICATE THE DIFFERENT IRRIGATION ZONES AND THE FREQUENCY AND AMOUNT OF IRRIGATION. LANDSCAPE PLANS MUST IDENTIFY METHODS THAT WILL BE EMPLOYED TO PROMOTE RESOURCE-EFFICIENT LANDSCAPING FOR THE CONSERVATION OF WATER AND OTHER NATURAL RESOURCES, SUCH AS:
1. PRACTICAL TURF AREAS;
2. USE OF WATER-CONSERVING PLANT MATERIAL;
3. GROUPING OF PLANTS WITH SIMILAR WATER REQUIREMENTS;
4. INSTALLATION OF PERVIOUS PAVING TO ENCOURAGE GROUNDWATER RECHARGE AND RE-USE AND TO DISCOURAGE RUN-OFF;
5. RAINWATER HARVESTING TECHNIQUES;
6. USE OF MULCHES;
7. USE OF SOIL AMENDMENTS BASED ON SOIL ANALYSIS;
8. USE OF RECLAIMED WATER, AND
9. OTHER PRACTICES AND TECHNIQUES.
(J) MAINTENANCE. THE PROPERTY OWNER, OCCUPANT, TENANT AND RESPECTIVE AGENT OF EACH, IF ANY, ARE JOINTLY AND SEVERALLY RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF ALL REQUIRED LANDSCAPING IN PERPETUITY, IN ACCORDANCE WITH THE FOLLOWING REGULATIONS:
(1) LANDSCAPING MUST BE KEPT REASONABLY FREE OF VISIBLE SIGNS OF INSECTS AND DISEASE AND APPROPRIATELY IRRIGATED TO ENABLE LANDSCAPING TO EXIST IN A HEALTHY GROWING CONDITION;
(2) LANDSCAPING MUST BE MOWED OR TRIMMED IN A MANNER AND AT A FREQUENCY APPROPRIATE TO THE USE MADE OF THE MATERIAL AND SPECIES ON THE SITE SO AS NOT TO DETRACT FROM THE APPEARANCE OF THE GENERAL AREA. GROWTH OF PLANT MATERIAL AT MATURITY MUST BE CONSIDERED WHERE FUTURE CONFLICTS SUCH AS VIEW, SIGNAGE, STREET LIGHTING, UTILITIES AND CIRCULATION MIGHT ARISE;
(3) ALL LANDSCAPING MUST BE MAINTAINED TO MINIMIZE PROPERTY DAMAGE AND PUBLIC SAFETY HAZARDS, INCLUDING REMOVAL OF DEAD OR DECAYING PLANT MATERIAL, AND REMOVAL OF LOW-HANGING BRANCHES NEXT TO SIDEWALKS AND WALKWAYS OBSTRUCTING STREET LIGHTING; AND
(4) ALL PRUNING MUST BE DONE IN ACCORDANCE WITH ANSI A300 (PART 1) "STANDARDS FOR TREE CARE OPERATIONS-PRUNING." TREE TOPPING IS PROHIBITED. CROWN REDUCTION PRUNING MAY BE USED INSTEAD TO REDUCE THE HEIGHT OF A TREE WHEN NECESSARY. TOPPED TREES MAY NOT BE COUNTED TOWARD TREE PLANTING REQUIREMENTS.
(5) THE PROPERTY OWNER MUST POST A MAINTENANCE BOND OR CASH ESCROW PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY GUARANTEEING ALL LANDSCAPE MATERIALS AND WORK FOR A PERIOD OF TWO YEARS. THE BOND OR ESCROW MUST BE FOR AT LEAST 115 PERCENT OF THE ESTIMATED COST OF REPLACING ALL REQUIRED LANDSCAPING. AN ITEMIZED ESTIMATE MUST BE PROVIDED BY THE OWNER AND BASED ON THE OPINION OF A LANDSCAPE CONTRACTOR AND FOUND TO BE REASONABLE BY THE CITY ARBORIST. THE CITY ARBORIST MUST MAKE AN INSPECTION AND NOTIFY THE OWNER OF ANY CORRECTIONS TO BE MADE WITHIN THE TWO-YEAR GUARANTEE PERIOD.

CALCULATIONS:

PHASE 1 CALCULATIONS

TREE DENSITY FACTOR (TDF)

SITE AREA IN ACRES	X 20	TDF (TREE DENSITY FACTOR)
13.25	20	265

REMAINING TREE FACTOR (RTF)

	RTF
	52.05

REQUIRED REPLACEMENT DENSITY (RRD)

TDF	RTF	RRD
265		**265**

Required Replacement Density		
265		
Density Provided (RTF+Replacement Trees)		
52.05	198	**250.05**
Meets Requirement		
NO		

REPLACEMENT TREES PROVIDED:		
SITE:		*162.1*
BLOCK 3:		*12*
BLOCK 4:		*23.9*
TOTAL:		**198**

REPLACEMENT TREES:

SITE LANDSCAPE SCHEDULE

Trees	Quantity	Botanical/Common	Size	Root	Spacing		Remarks	Units	Total Units
AS	1	Acer japonicum `Sango Kaku` / Coralbark Amur Maple	5" cal.	B & B	As Shown			0.9	0.9
CD	12	Cedrus deodara / Deodar Cedar	14` ht.	B & B	As Shown			0.7	8.4
GD	8	Gymnocladus dioica `Espresso` / Kentucky Coffeetree	6" cal.	B & B	As Shown			1	8
PM	9	Platanus mexicana / Mexican Sycamore	4" cal.	B & B	As Shown			0.7	6.3
PM2	53	Platanus mexicana / Mexican Sycamore	6" cal.	B & B	As Shown			1	53
QH12	3	Quercus phellos `Hightower` / Willow Oak	12" cal.	B & B	As Shown		Selected from Select Trees	2	6
QH6	35	Quercus phellos `Hightower` / Willow Oak	6" cal.	B & B	As Shown		Selected from Select Trees	1	35
QL	9	Quercus robur x alba `JFS-KW2QX` TM / Skinny Genes Oak	4" cal.	B & B	As Shown			0.7	6.3
QS20	5	Quercus shumardii / Shumard Red Oak	20" cal.	B & B	As Shown		SPECIMEN TREES	3.3	16.5
TH	31	Thuja occidentalis `Hetz Wintergreen` / Hetz Wintergreen Arborvitae	14` ht.	B & B	As Shown			0.7	21.7
Total:	***165***						**Total Units Provided:**		***162.1***

PLANT SCHEDULE - BLOCK 3

Trees	Quantity	Botanical/Common	Size	Root	Remarks	Units	Total Units
GD	12	Gymnocladus dioica 'Espresso' / Kentucky Coffeetree	5" cal.	B&B		0.9	12
	12						***12***

PLANT SCHEDULE - BLOCK 4

Trees	Quantity	Botanical/Common	Size	Root	Remarks	Units	Total Units
GD	18	Gymnocladus dioica 'Espresso' / Kentucky Coffeetree	5" cal.	B&B		0.9	16.2
LC	3	Livistona chinensis / Chinese Fan Palm	2.5" cal.				
LW	11	Pistacia chinensis / Chinese Pistache	4" cal.	B&B		0.7	7.7
	11						***23.9***

EXISTING SPECIMEN TREES:

SPECIMEN TREES TO BE REMOVED

Tree #	Species	Condition	DBH	Units	x 1.0/1.5	Weighted Units
13	Southern Red Oak	Poor	26	3.7	1.5	5.55
14	Tulip Poplar	Good	33	5.9	1.5	8.85
15	Sweet Gum	Poor	25	3.4	1.5	5.1
16	Tulip Poplar	Good	25	3.4	1.5	5.1
17	Tulip Poplar	Poor	25	3.4	1.5	5.1
20	Tulip Poplar	Good	25	3.4	1.5	5.1
21	Tulip Poplar	Good	29	4.6	1.5	6.9
22	Tulip Poplar	Poor	29	4.6	1.5	6.9
23	Tulip Poplar	Good	28	4.3	1.5	6.45
57	Water Oak	Good	24	3.1	1.5	4.65
58	Persimmon	Good	11	0.7	1.5	1.05
60	Willow Oak	Poor	25	3.4	1.5	5.1
61	Willow Oak	Poor	27	4	1.5	6
62	Apple	Poor	8	0.5	1.5	0.75
63	Dogwood	Good	6	0.3	1.5	0.45
64	Dogwood	Good	7	0.3	1.5	0.45
65	Dogwood	Good	6	0.3	1.5	0.45
66	Willow Oak	Good	37	7.5	1.5	11.25
67	Willow Oak	Fair	26	3.7	1.5	5.55
68	Willow Oak	Fair	25	3.4	1.5	5.1
69	Willow Oak	Good	31	5.2	1.5	7.8
70	Dogwood	Poor	7	0.3	1.5	0.45
71	Dogwood	Good	6	0.3	1.5	0.45
72	Dogwood	Good	6	0.3	1.5	0.45
73	Dogwood	Good	6	0.3	1.5	0.45
74	Sourwood	Good	8	0.5	1.5	0.75
75	Sourwood	Good	7	0.3	1.5	0.45
						106.65

SPECIMEN TREES TO REMAIN

Tree #	Species	Condition	DBH	Units	x 1.0/1.5	Weighted Units
1	Flowering Cherry	Fair	10	0.6	1.5	0.9
2	Flowering Cherry	Poor	13	0.9	1.5	1.35
3	Redbud	Poor	10	0.6	1.5	0.9
4	Dogwood	Good	6	0.3	1.5	0.45
5	Dogwood	Fair	5,6	0.7	1.5	1.05
6	Japanese Maple	Good	3,4,4,4,4,4	2.9	1.5	4.35
7	Laceleaf Japanese Maple	Good	3	0.1	1.5	0.15
8	Flowering Cherry	Fair	9	0.5	1.5	0.75
9	Flowering Cherry	Good	8	0.5	1.5	0.75
10	Flowering Cherry	Good	11	0.7	1.5	1.05
11	Flowering Cherry	Good	8	0.5	1.5	0.75
12	White Oak	Poor	32	5.6	1.5	8.4
18	American Beech	Good	39	8.3	1.5	12.45
19	Tulip Poplar	Poor	34	6.3	1.5	9.45
56	Southern Red Oak	Good	25	3.4	1.5	5.1
76	Japanese Maple	Good	5	0.3	1.5	0.45
77	Japanese Maple	Good	6	0.3	1.5	0.45
78	Dogwood	Poor	7,13	2.2	1.5	3.3
						52.05

TREE SURVEY INFORMATION COMPLETED AND PROVIDED BY ARBORGUARD DATED MARCH 2018. REFER TO TREE REPORT FOR ADDITIONAL TREE INFORMATION.

dwell design studio
3655 BROOKSIDE PARKWAY, SUITE 150 · ALPHARETTA, GA. 30022
PHONE: 770.864.1035 FAX: 770.864.1790
dwelldesignstudio.com

HIGH STREET

HIGH STREET
CITY OF DUNWOODY

GID

ISSUE

DATE	DESCRIPTION	INCLUDED
08/16/2019	LDP Submittal	X

REVISION

DATE	DESCRIPTION	REV

SEAL:

SHEET NAME:

SCHEDULE / CALCULATIONS

Project Status: 16 August, 2019

JOB NUMBER: Project Number

DRAWN BY CHECKED BY

LP0-00
ISSUED FOR CONSTRUCTION

DEMOLITION NOTES

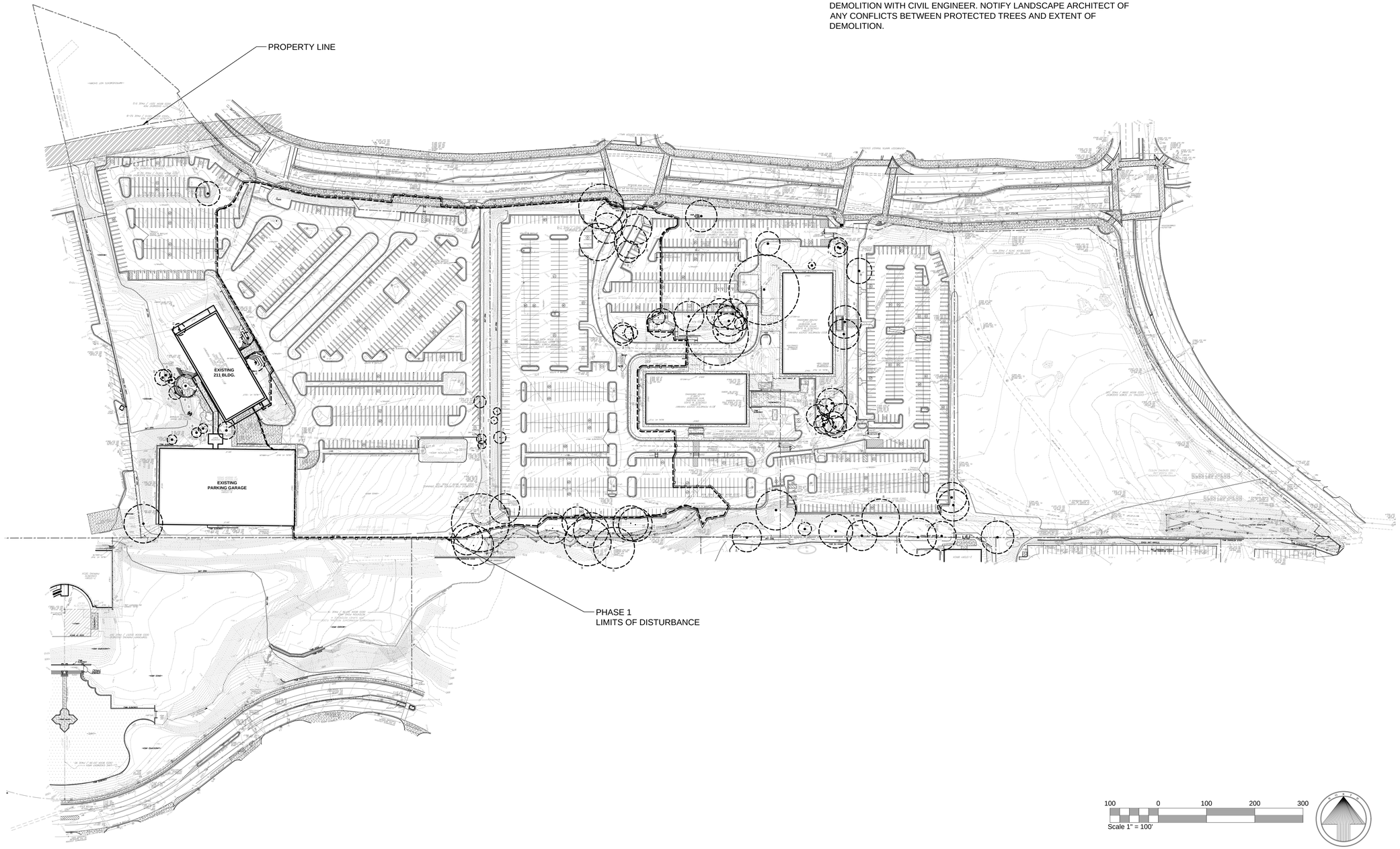
1. CONTRACTOR RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BIDDING WORK.
2. CONTRACTOR RESPONSIBLE FOR COORDINATING, RELOCATING, OR REMOVING ANY ITEMS NOT NOTED ON DRAWINGS TO ACHIEVE DESIGN INTENT OF DRAWINGS.
3. CONTRACTOR TO VERIFY ITEMS TO BE REMOVED WITH OWNER REPRESENTATIVE. VERIFY ITEMS TO BE SALVAGED AND PROVIDED TO THE OWNER REPRESENTATIVE.
4. CONTRACTOR TO REMOVE ALL MATERIAL TO BE DEMOLISHED OFF SITE.
5. CONTRACTOR RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES.
6. CONTRACTOR RESPONSIBLE FOR PROTECTING ALL EXISTING TREES AS NOTED. CONTRACTOR RESPONSIBLE FOR BRINGING DAMAGE TO ANY TREES TO THE ATTENTION OF OWNER IMMEDIATELY.
7. REFERENCE HARDSCAPE AND LANDSCAPE PLANS FOR SPECIFIC DIMENSIONS.
FOR PROPOSED WORK AND COORDINATION WITH DEMOLITION.
8. PROTECT EXISTING HARDSCAPE.
9. CONFIRM ALL TREES TO BE REMOVED WITH LANDSCAPE ARCHITECT, ARCHITECT, AND OWNERS REPRESENTATIVE PRIOR TO REMOVAL. DO NOT REMOVE TREES WITHOUT APPROVAL. VERIFY EXTENT OF DEMOLITION WITH CIVIL ENGINEER. NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS BETWEEN PROTECTED TREES AND EXTENT OF DEMOLITION.

TREE PROTECTION / DEMO LEGEND

EXISTING SPECIMEN TREES TO BE REMOVED . CONSULT WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.

SPECIMEN TREES TO BE REMAIN.

TREE PROTECTION FENCING, COORDINATE TREE PROTECTION FENCING WITH JOB SITE CONSTRUCTION FENCING. FENCING LAYOUT TO BE DETERMINED BY PROJECT CONTRACTOR, CERTIFIED ARBORIST AND OWERN'S REP.



100 0 100 200 300
Scale 1" = 100'

dwell design studio
3655 BROOKSIDE PARKWAY, SUITE 150 . ALPHARETTA, GA . 30022
PHONE: 770.864.1035 FAX: 770.864.1790
dwelldesignstudio.com

HIGH STREET

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CITY OF DUNWOODY

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ISSUE

DATE	DESCRIPTION	INCLUDED
08/16/2019	LDP Submittal	X

REVISION

DATE	DESCRIPTION	REV

SEAL:

SHEET NAME:

OVERALL
PHASE 1 TREE
PROTECTION

Project Status: 16 August, 2019

JOB NUMBER: Project Number

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ISSUED FOR
CONSTRUCTION