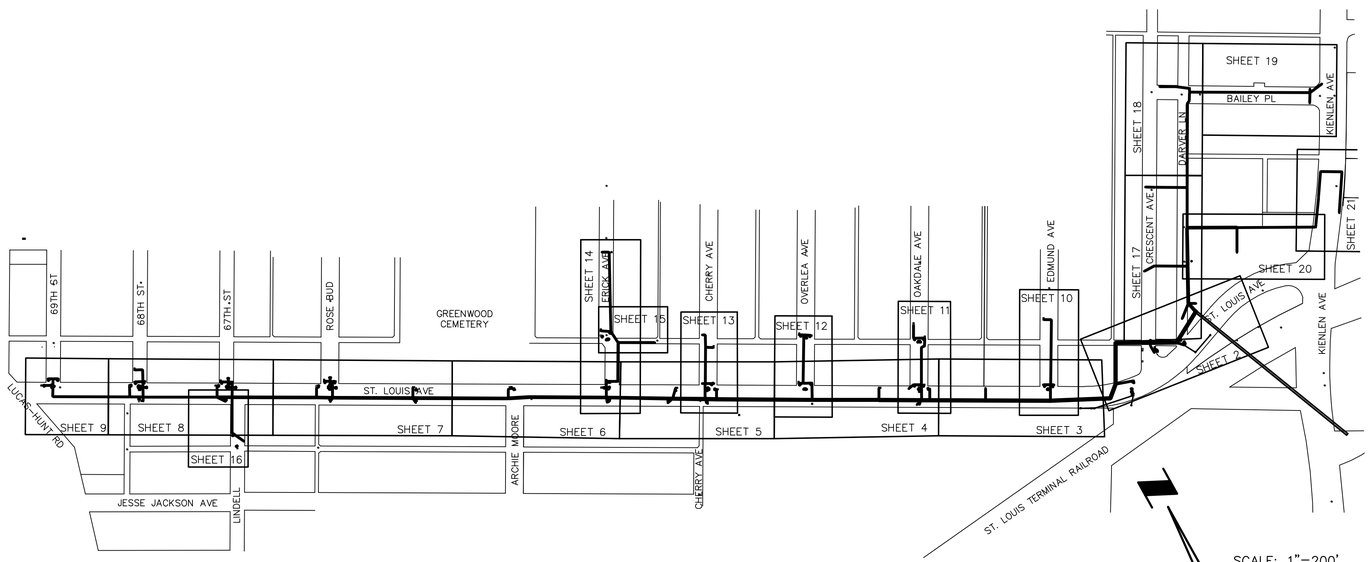
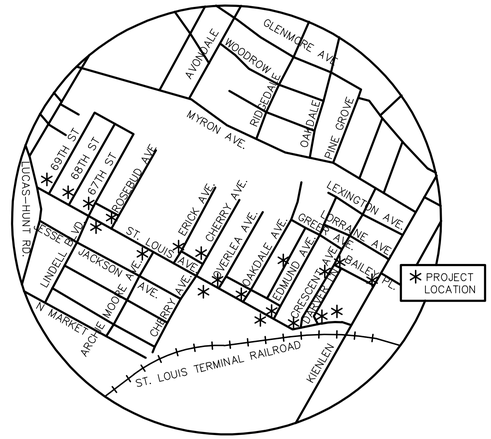
METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM-BADEN RELIEF PHASE IV (HEBERT) (DARVER TO 69TH)

LEGEND

EXISTING		NEW
○	MANHOLE	●
◎	INLET MANHOLE	◘
□	INLET	■
▭	DOUBLE INLET	▬
○	MANHOLE DESIGNATOR	○
⬡	INLET OR STRUCTURE DESIGNATOR	⬡
◇	OUTLET OR FES DESIGNATOR	◇
▢	JUNCTION CHAMBER DESIGNATOR	▢
	PIPE 6" THRU 18"	
	PIPE 21" THRU 108"	
x x	FENCE	x x
2"G	UNDERGROUND UTILITIES	
	FLOWLINE OF CREEK OR DITCH	
	GUARD RAIL	
	ASPHALT PAVEMENT	
	ASPHALT OVER RIGID BASE	
	CONCRETE PAVEMENT	
	GRAVEL BASE	
+	TREE	
	BUSH	
	HEDGE ROW	
GV	UTILITY METER OR VALVE	
PP	POWER POLE	
PP	POWER POLE & GUY	
	STREET SIGN	
	FIRE HYDRANT	
	LIGHT STANDARD	
	MAIL BOX	
VENT	HOUSE VENT	
D	TRAFFIC SIGNAL	
	UTILITY BOX	
	CONTROL POINT/TRAVERSE POINT	
	CONTROL POINT DESIGNATOR	
	TRAVERSE POINT DESIGNATOR	
	TEST HOLE	





LOCATION MAP
NOT TO SCALE

NOTE:

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEREFORE; THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT PRESENTLY KNOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UTILITIES LOCATED IN THE FIELD PRIOR TO EXCAVATION OR CONSTRUCTION.

INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2–21	PLANS AND PROFILES
22–28	SEWER PROFILES
29	DETAIL SHEET

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

REV.	DATE	DESCRIPTION	BY

METROPOLITAN ST. LOUIS SEWER DISTRICT
2350 MARKET STREET
ST. LOUIS, MO 63103
(314) 768-6200

Engineer Seal

PRELIMINARY

STEPHEN G. HILDERBRAND, P.E.
PROFESSIONAL ENGINEER
P.E. No. E-25381
Date:

HARLEM-BADEN RELIEF PHASE IV
(HEBERT) (DARVER TO 69TH)
11797-015.1
VILLAGE OF HILLSDALE, MISSOURI

Designed S.G.H.
Drawn K.P.
Checked

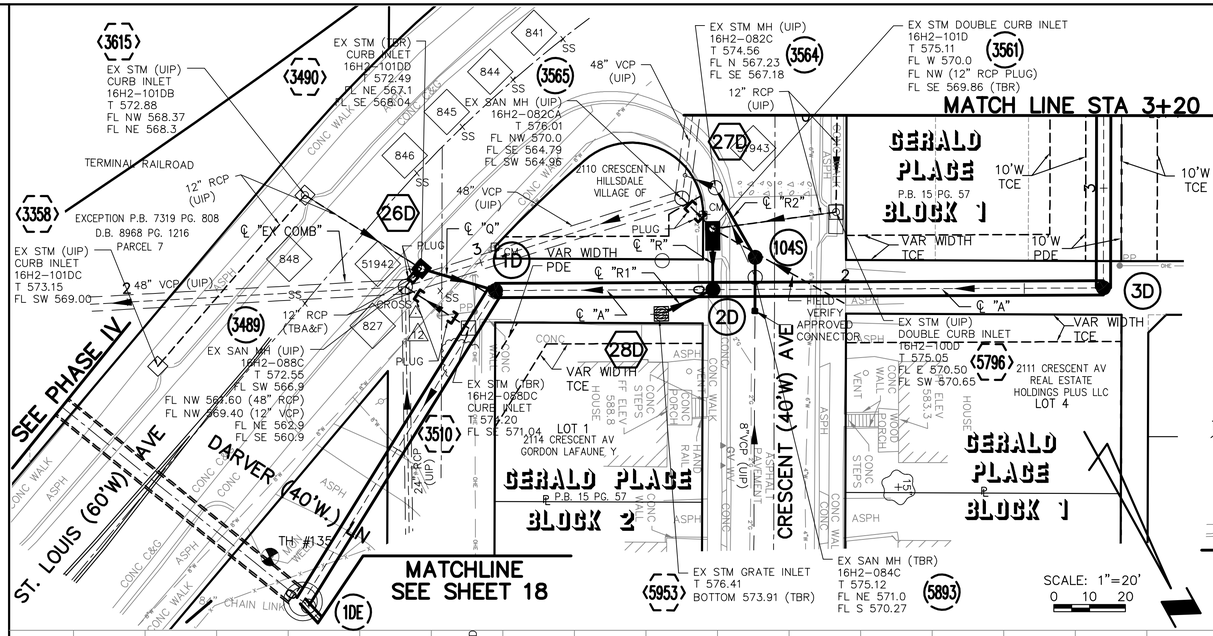
Date MARCH, 2020
Sheet No 1 of 29

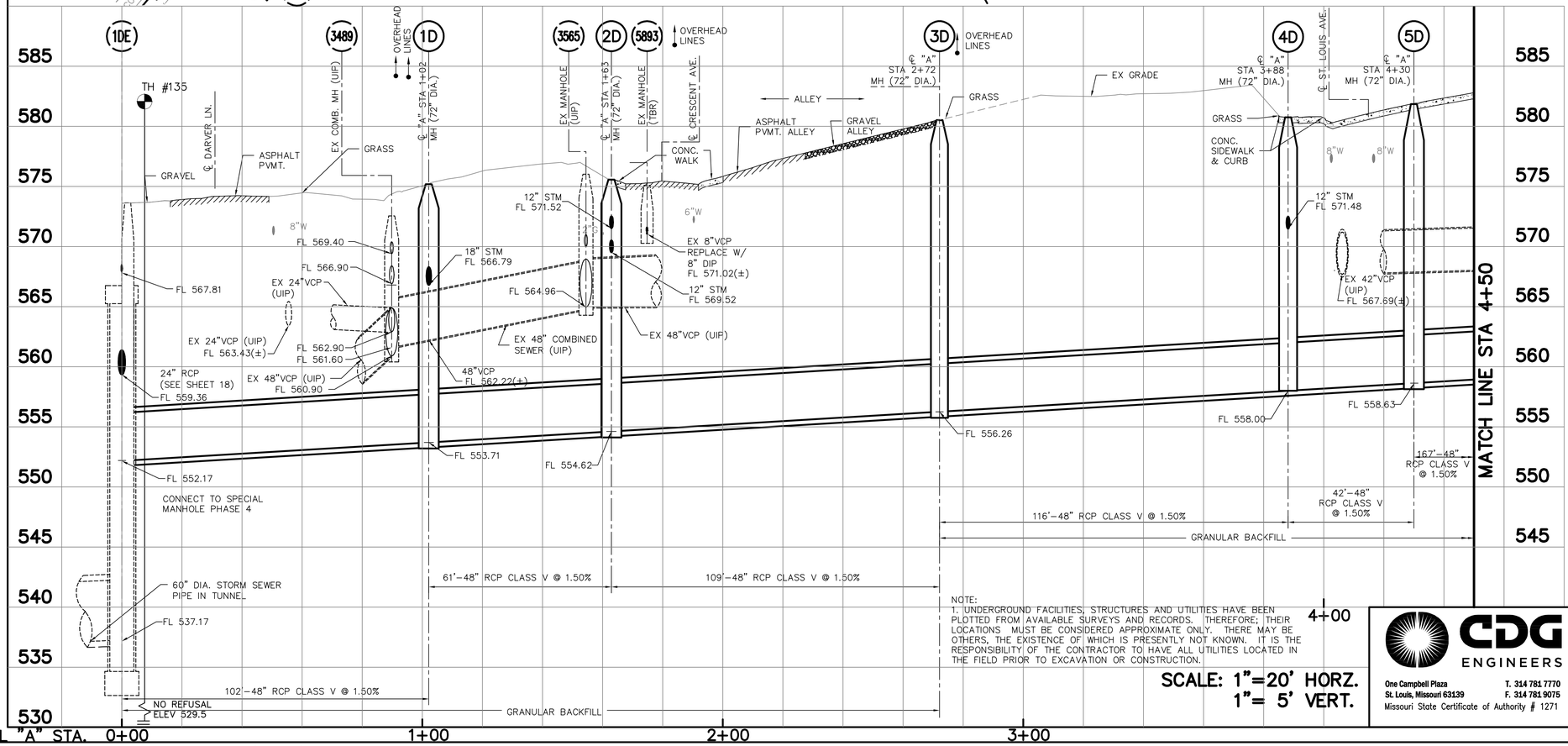
Path: T:\Working\18102 - MSD - Harlem Baden Package 5\Drawings\
Plotted on: 3/02/20 @ 02:04:10PM by kpolovina

March 2, 2020

BASE MAP: 16-H-2

11797-[C1-D1]





NOTE:
1. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UTILITIES LOCATED IN THE FIELD PRIOR TO EXCAVATION OR CONSTRUCTION.

SCALE: 1"=20' HORZ.
1"= 5' VERT.

POINT TABLE

CONTROL POINT #	MSD ID #	NORTHING	EASTING	DESCRIPTION
12	–	1037960.55	882099.67	CONTROL POINT (CROSS)
13	–	1037940.86	881954.53	CONTROL POINT (CROSS)
656	–	1037889.98	881834.78	IRON PIPE
827	–	1037958.41	882090.67	CROSS
834	–	1037908.39	881955.8	CROSS
835	–	1037909.44	881934.50	CROSS
837	–	1037908.39	881955.80	CROSS
838	–	1037908.56	881978.38	CROSS
839	–	1037909.00	881986.28	CROSS
841	–	1037913.50	882026.52	CROSS
844	–	1037916.62	882044.23	CROSS
845	–	1037921.32	882062.99	CROSS
846	–	1037926.42	882080.38	CROSS
848	–	1037943.17	882125.44	CROSS
51942	–	1037955.01	882071.27	ALUMINUM DISK
51943	–	1037975.49	882016.13	CONC. MONUMENT
51944	–	1037949.44	881955.85	CONC. MONUMENT
51945	–	1037939.34	881936.81	CONC. MONUMENT

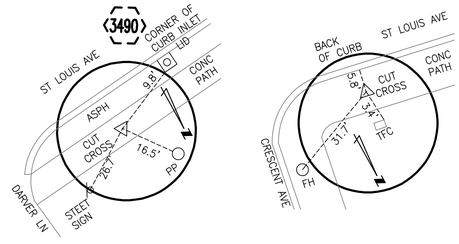
EXISTING STRUCTURE TABLE

PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
3358	3358	16H2-101DC	1037938.54	882169.91	EX STM INLET (UIP)
3489	3489	16H2-088C	1037952.61	882098.61	EX COMB SEWER MH (UIP)
3490	3490	16H2-101DD	1037950.41	882092.24	EX STM INLET/MH (TBR)
3510	3510	16H2-088DC	1037971.32	882088.74	EX STM INLET (TBR)
3561	3561	16H2-101D	1037980.10	882015.56	EX DOUBLE STM INLET (TBR)
3564	3564	16H2-082C	1037970.41	882009.40	EX STM INLET (TBR)
3565	3565	16H2-082CA	1037968.46	882018.94	EX COMB SEWER MH (UIP)
3615	3615	16H2-101DB	1037916.65	850564.36	EX STM INLET/MH (UIP)
5729	5729	16H2-083CA	1037929.86	881921.16	EX STM INLET (TBR)
5795	5795	16H2-XXD	1037965.84	881967.92	EX STM INLET (UIP)
5796	5796	16H2-100D	1037992.73	881983.21	EX STM INLET (UIP)
5893	5893	16H2-084C	1037997.71	882011.82	EX SAN MH (TBR)
5953	5953	16H2-XX	1037993.95	882039.70	EX GRATE INLET (TBR)
6170	6170	16H2-099DA	1037873.18	881882.06	EX STM INLET (UIP)
6179	6179	16H2-099D	1037894.36	881900.01	EX STM INLET/MH (UIP)
6227	6227	16H2-080C	1037909.88	881902.17	EX SAN MH (UIP)
–	1DE	–	1038015.71	882166.24	EX SPECIAL MH (PHASE 4)

NEW STRUCTURE TABLE

PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
–	1D	–	1037965.77	882077.10	MANHOLE (72" DIA.)
–	2D	–	1037995.00	882023.81	MANHOLE (72" DIA.)
–	3D	–	1038047.49	881928.10	MANHOLE (72" DIA.)
–	4D	–	1037946.13	881871.73	MANHOLE (72" DIA.)
–	5D	–	1037918.51	881840.22	MANHOLE (72" DIA.)
–	26D	–	1037950.41	882092.24	INLET/MH
–	27D	–	1037980.10	882015.64	DOUBLE INLET/MH
–	28D	–	1037993.95	882039.70	2GI
–	29D	–	1037902.18	881901.10	INLET/MH
–	30D	–	1037929.86	881921.16	INLET
–	104S	–	1037992.83	882009.09	SAN MH

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.



REFERENCE TIE
CONTROL POINT #12
ELEV 572.88

REFERENCE TIE
CONTROL POINT #13
ELEV 575.42

M.S.D. BENCHMARK
MSD BM 9-307
"STANDARD TABLET" SET 3 FEET NORTH OF A STONE WALL AND 8 FEET WEST OF A SIDEWALK; 33' WEST OF THE CENTERLINE OF LUCAS HUNT ROAD ON THE SOUTH SIDE OF THE ENTRANCE AT ST. LOUIS AVENUE.
ELEVATION PUBLISHED 629.53 (ADOPTED)

REV.	DATE	DESCRIPTION	BY

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM-BADEN RELIEF PHASE IV (HEBERT) (DARVER TO 69TH) 11797-015.1 VILLAGE OF HILLSDALE, MISSOURI

Engineer Seal

PRELIMINARY

STEPHEN G. HILDERBRAND, P.E.
PROFESSIONAL ENGINEER
P.E. No. E-25381
Date:

CDG ENGINEERS
One Campbell Plaza, St. Louis, Missouri 63139
T. 314 781 7770
F. 314 781 9075
Missouri State Certificate of Authority # 1271

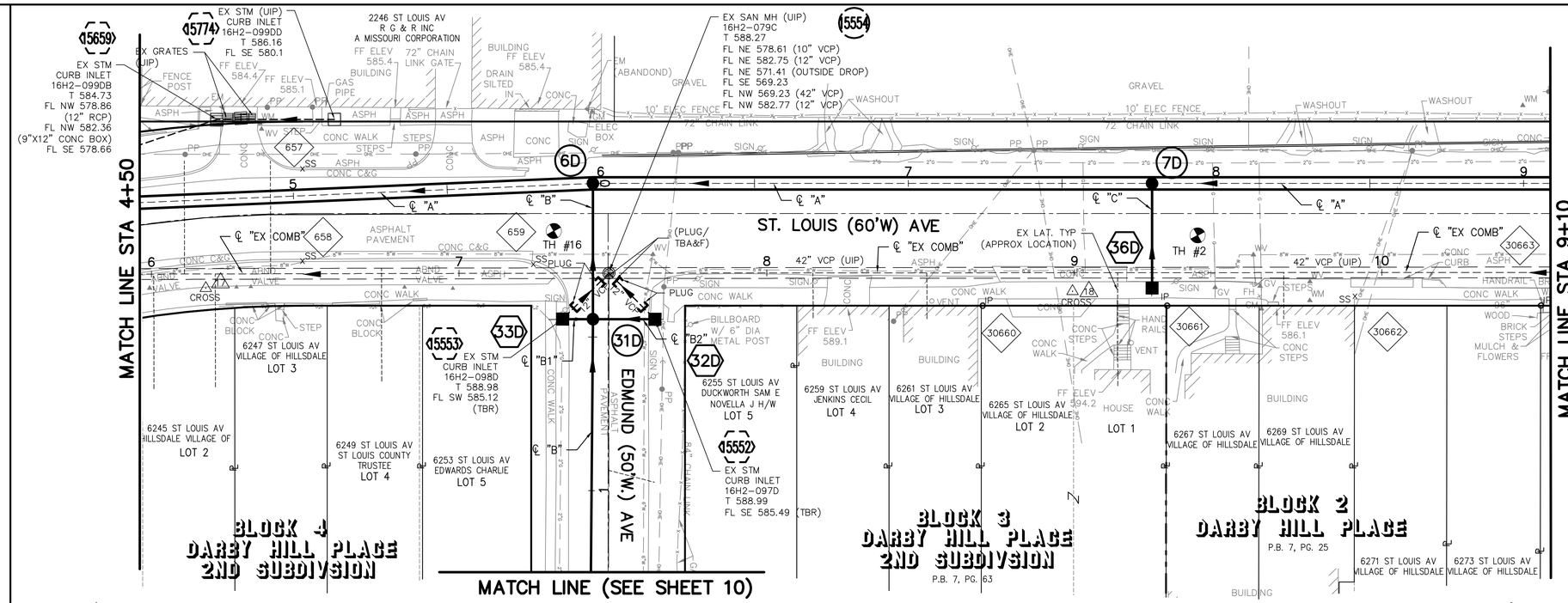
Designed S.G.H.
Drawn K.P.
Checked J.F.M.
Date MARCH, 2020
Sheet No 2 of 29

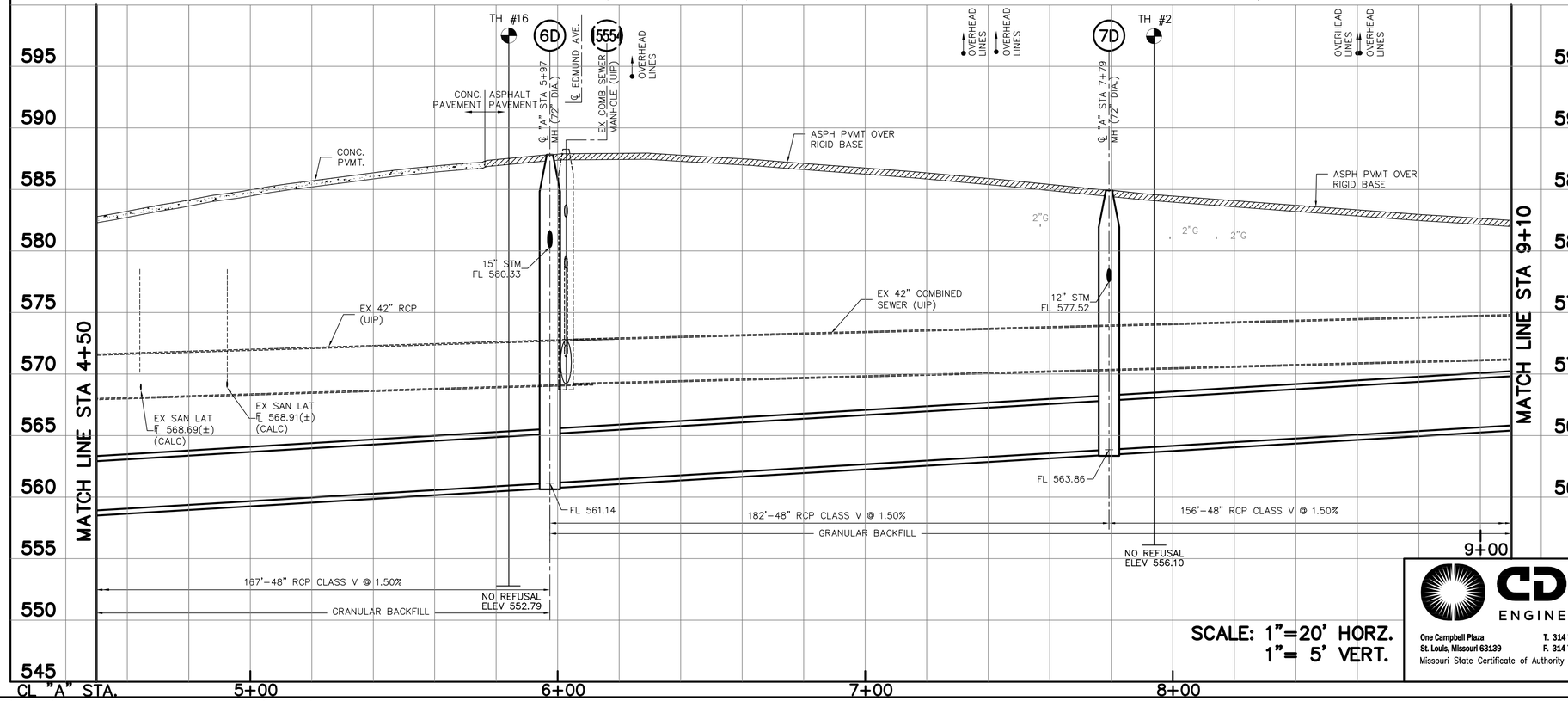
Path: T:\Working\18102 - MSD - Harlem Baden Package 5\Drawings\
Plotted on: 3/02/20 @ 02:07:50PM by kpolovina

March 2, 2020

BASE MAP: 16-H-2

11797-[P1-P28]





SCALE: 1"=20' HORZ.
1"= 5' VERT.

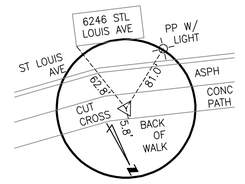
POINT TABLE				
CONTROL POINT #	MSD ID #	NORTHING	EASTING	DESCRIPTION
17	–	1037962.24	881817.13	CONTROL POINT (CROSS)
18	–	1038100.11	881571.40	CONTROL POINT (CROSS)
657	–	1037943.61	881770.76	CROSS
658	–	1037969.85	881785.36	CROSS
659	–	1038007.22	881720.29	CROSS
30660	–	1038090.04	881599.22	IP
30661	–	1038119.21	881546.75	IP
30662	–	1038146.18	881491.93	CROSS
30663	–	1038178.23	881440.54	IP

EXISTING STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
15552	15552	16H2-097D	1038042.10	881694.45	EX INLET (TBR)
15553	15553	16H2-098D	1038027.45	881720.65	EX INLET (TBR)
15554	15554	16H2-079C	1038021.70	881700.18	EX MH (UIP)
15659	15659	16H2-099DB	1037916.03	881787.29	EX STM INLET (UIP)
15774	15774	16H2-099DD	1037934.58	881753.86	EX INLET (TBR)

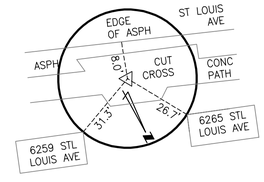
NEW STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
–	6D	–	1037993.65	881690.57	MH (72" DIA.)
–	7D	–	1038082.02	881531.75	MH (72" DIA.)
–	31D	–	1038032.26	881712.04	MH
–	32D	–	1038042.10	881694.45	INLET
–	33D	–	1038027.45	881720.65	INLET
–	36D	–	1038111.78	881548.28	INLET

NOTES:

1. SEE SHEET 10 FOR CENTERLINE "B1" & "B2" PROFILES.
2. SEE SHEET 11 FOR CENTERLINE "D1" & "D2" PROFILES.
3. SEE SHEET 22 FOR CENTERLINE "C" PROFILE.
4. HOUSE LATERALS ARE SHOWING AT APPROXIMATE LOCATION.
5. ALL THE PIPES THAT ARE CALLED TBA&F SHALL BE PLUGED TO THE CLOSEST DOWNSTREAM STRUCTURE AND FILLED.



REFERENCE TIE
CONTROL POINT #17
ELEV 584.62



REFERENCE TIE
CONTROL POINT #18
ELEV 585.74

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

REV.	DATE	DESCRIPTION	BY

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM–BADEN RELIEF PHASE IV (HEBERT) (DARVER TO 69TH) 11797–015.1 VILLAGE OF HILLSDALE, MISSOURI

CDG ENGINEERS
One Campbell Plaza T. 314 781 7770
St. Louis, Missouri 63139 F. 314 781 9075
Missouri State Certificate of Authority # 1271

Engineer Seal

PRELIMINARY

STEPHEN G. HILDERBRAND, P.E.
PROFESSIONAL ENGINEER
P.E. No. E-25381
Date:

Designed S.G.H.
Drawn K.P.
Checked J.F.M.

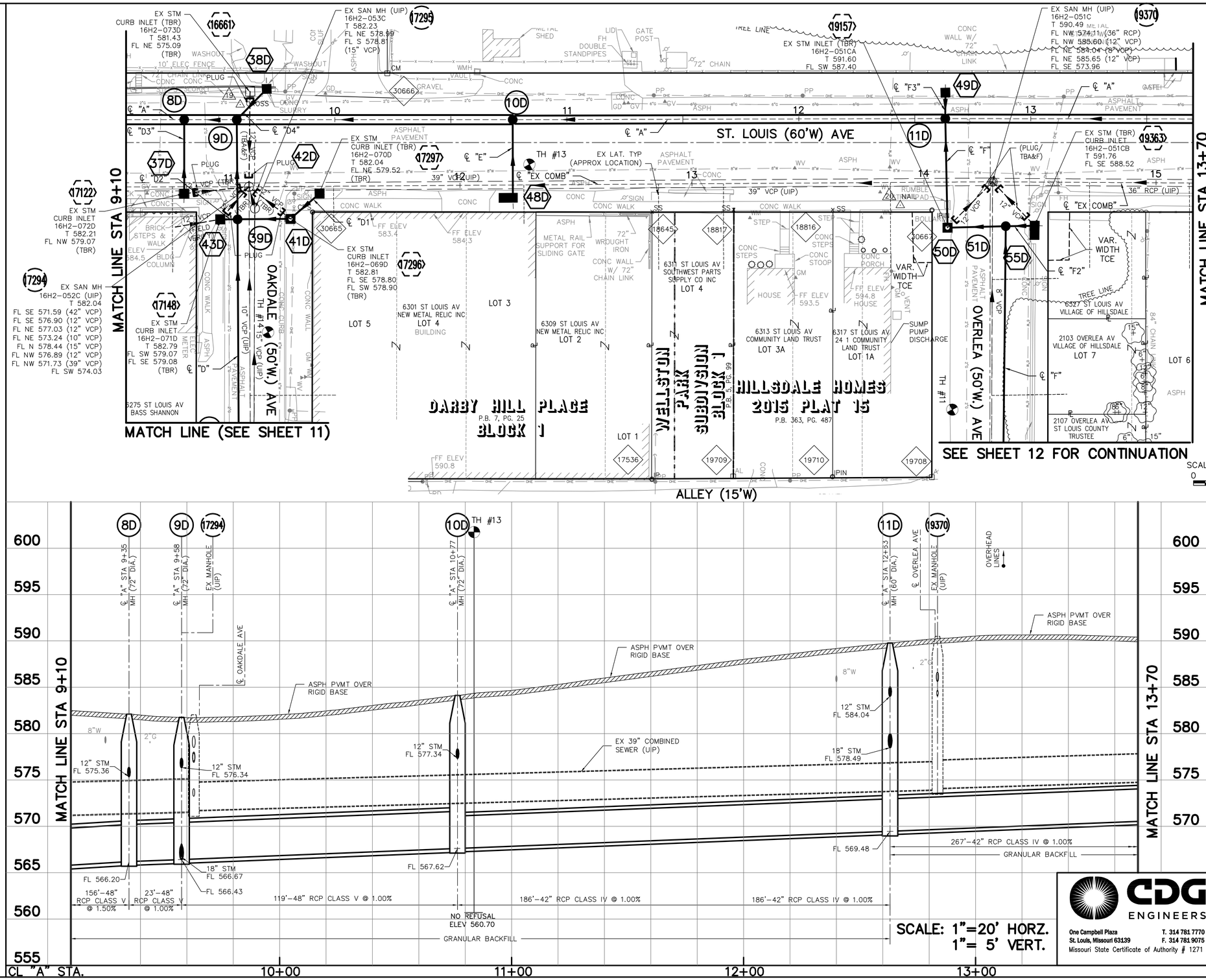
Date MARCH, 2020
Sheet No 3 of 29

Path: T:\Working\18102 – MSD – Harlem Baden Package 5\Drawings\
Plotted on: 3/02/20 @ 02:08:57PM by kpolovina

March 2, 2020

BASE MAP: 16–H–2

11797–[P2–P28]



POINT TABLE				
CONTROL POINT #	MSD ID #	NORTHING	EASTING	DESCRIPTION
19	–	1038163.84	881371.25	CONTROL POINT (CROSS)
20	–	1038340.07	881143.73	CONTROL POINT (CROSS)
17536	–	1038391.24	881294.70	IP
18645	–	1038290.59	881238.58	CROSS
18816	–	1038327.69	881170.16	CROSS
18817	–	1038306.86	881207.50	CROSS
19708	–	1038449.17	881188.91	AL
19709	–	1038407.27	881263.54	AL
19710	–	1038428.14	881226.19	IPIN
30665	–	1038219.50	881366.51	CPS
30666	–	1038182.86	881309.27	AL
30667	–	1038348.53	881132.81	IPIN

EXISTING STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
16661	16661	16H2-073D	1038160.95	881364.78	EX INLET (TBR)
17122	17122	16H2-072D	1038185.65	881411.04	EX INLET (TBR)
17148	17148	16H2-071D	1038202.92	881402.84	EX INLET (TBR)
17294	17294	16H2-052C	1038196.64	881385.19	EX MH (UIP)
17295	17295	16H2-053C	1038206.02	881387.49	EX MH (UIP)
17296	17296	16H2-069D	1038217.48	881376.27	EX INLET (TBR)
17297	17297	16H2-070D	1038213.99	881360.01	EX INLET (TBR)
19157	19157	16H2-051CA	1038358.43	881130.68	EX INLET (TBR)
19363	19363	16H2-051CB	1038375.97	881097.43	EX INLET (TBR)
19370	19370	16H2-051C	1038350.59	881104.08	EX MH (UIP)

NEW STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
–	8D	–	1038157.80	881395.55	MH (72" DIA)
–	9D	–	1038168.82	881375.74	MH (72" DIA)
–	10D	–	1038226.66	881271.78	MH (72" DIA)
–	11D	–	1038316.86	881108.62	MH (60" DIA)
–	37D	–	1038185.65	881411.04	INLET
–	38D	–	1038163.48	881357.99	INLET
–	39D	–	1038206.50	881396.31	MH
–	41D	–	1038217.43	881376.29	INLET/MH
–	42D	–	1038213.99	881360.01	INLET
–	43D	–	1038202.92	881402.84	INLET
–	48D	–	1038256.09	881288.10	DOUBLE INLET
–	49D	–	1038307.10	881103.14	INLET
–	50D	–	1038358.43	881130.68	INLET/MH
–	51D	–	1038370.09	881108.39	INLET
–	55D	–	1038375.97	881097.43	DOUBLE INLET

NOTES:

1. SEE SHEET 11 FOR CENTERLINE "D", "D1", & "D2" PROFILES.
2. SEE SHEET 12 FOR CENTERLINE "F", "F1" & "F2" PROFILES.
3. SEE SHEET 22 FOR CENTERLINE "D3", "D4", "E" & "F3" PROFILES.
4. HOUSE LATERALS ARE SHOWING AT THE APPROXIMATE LOCATION.
5. ALL THE PIPES THAT ARE CALLED TBA&F SHALL BE PLUGED TO THE CLOSEST DOWNSTREAM STRUCTURE AND FILLED.

SCALE: 1"=20'
0 10 20

REFERENCE TIE
CONTROL POINT #19
ELEV 581.34

REFERENCE TIE
CONTROL POINT #20
ELEV 590.43

SCALE: 1"=20' HORZ.
1"= 5' VERT.

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

REV.	DATE	DESCRIPTION	BY

CDG ENGINEERS
One Campbell Plaza
St. Louis, Missouri 63139
T. 314 781 7770
F. 314 781 9075
Missouri State Certificate of Authority # 1271

Engineer Seal

PRELIMINARY

STEPHEN G. HILDERBRAND, P.E.
PROFESSIONAL ENGINEER
P.E. No. E-25381
Date:

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM–BADEN RELIEF PHASE IV (HEBERT) (DARVER TO 69TH) 11797–015.1 VILLAGE OF HILLSDALE, MISSOURI

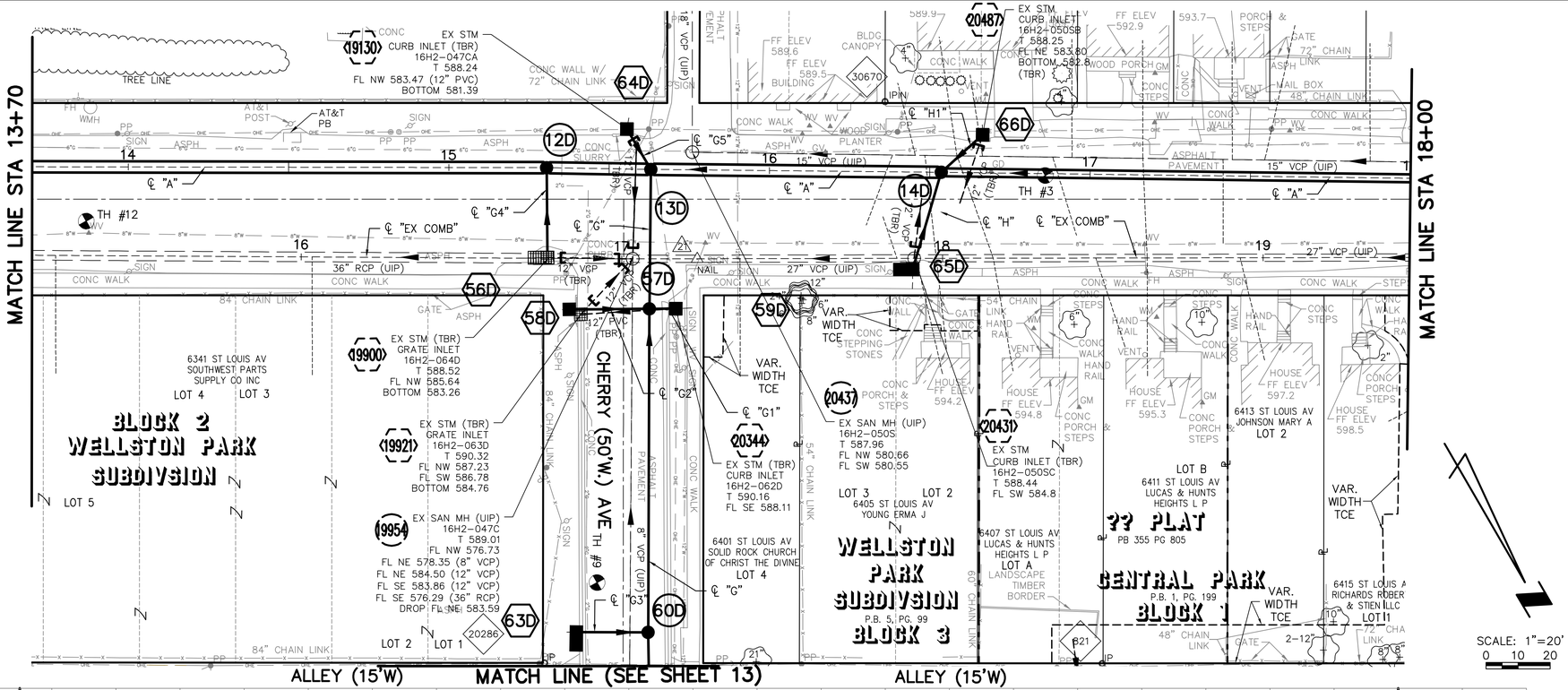
Designed S.G.H.
Drawn K.P.
Checked J.F.M.
Date MARCH, 2020
Sheet No 4 of 29

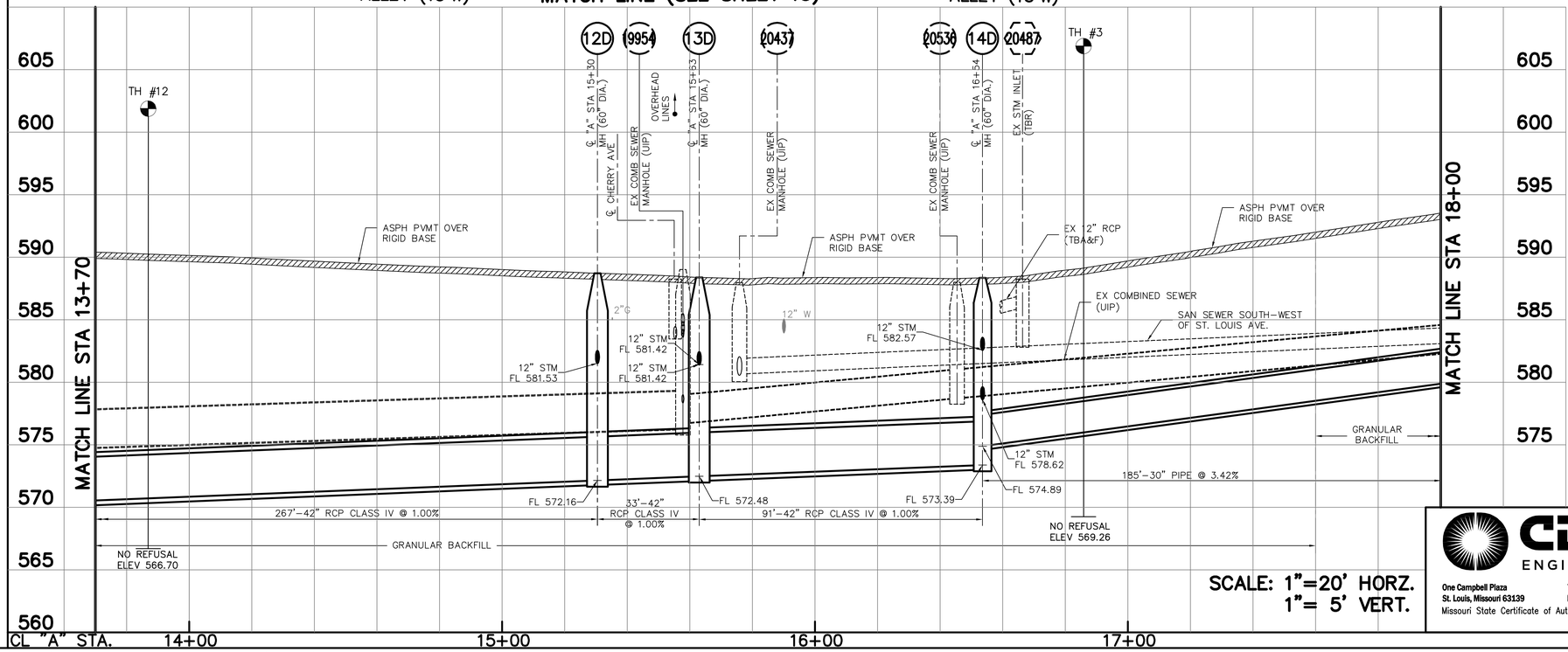
March 2, 2020

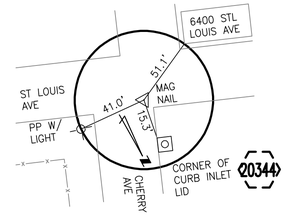
BASE MAP: 16–H–2

11797–[P3–P28]

Path: T:\Working\18102 – MSD – Harlem Baden Package 5\Drawings\
Plotted on: 3/02/20 @ 02:52:13PM by kpolovina







REFERENCE TIE
CONTROL POINT #21
ELEV 588.72

POINT TABLE

CONTROL POINT #	MSD ID #	NORTHING	EASTING	DESCRIPTION
21	–	1038494.99	880848.04	CONTROL POINT (CROSS)
821	–	1038666.68	880799.01	IP
20080	–	1038619.18	880915.02	CROSS
20286	–	1038581.95	880950.88	IP
30670	–	1038480.54	880772.95	IPIN

EXISTING STRUCTURE TABLE

PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
19130	19130	16H2-047CA	1038448.90	880847.49	EX STM INLET (TBR)
19900	19900	16H2-064D	1038471.88	880888.62	EX STM 2G (TBR)
19921	19921	16H2-063D	1038492.41	880888.14	EX STM GRATE (TBR)
19954	19954	16H2-047C	1038485.15	880865.60	EX COMB SEWER MH (UIP)
20344	20344	16H2-062D	1038505.25	880861.42	EX STM INLET (TBR)
20431	20431	16H2-050SC	1038530.47	880790.88	EX STM INLET (TBR)
20437	20431	16H2-050S	1038465.13	880833.18	EX SAN MH (UIP)
20487	20487	16H2-050SB	1038504.41	880751.38	EX STM INLET (TBR)
–	–	16H2-043C	–	–	EX MH (NOT FOUND)

NEW STRUCTURE TABLE

PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
–	12D	–	1038447.25	880875.22	MH (60" DIA.)
–	13D	–	1038463.52	880847.07	MH (60" DIA.)
–	14D	–	1038508.34	880768.39	MH (60" DIA.)
–	56D	–	1038471.88	880888.62	4GI
–	57D	–	1038501.32	880868.60	MH
–	58D	–	1038489.33	880890.52	INLET
–	59D	–	1038505.25	880861.42	INLET
–	60D	–	1038589.32	880918.03	MH
–	63D	–	1038578.35	880937.57	DOUBLE INLET
–	64D	–	1038448.90	880847.49	INLET
–	65D	–	1038537.98	880785.94	DOUBLE INLET
–	66D	–	1038504.41	880751.38	INLET

NOTES:

1. SEE SHEET 13 FOR CENTERLINE "G", "G1", & "G2" PROFILES.
2. SEE SHEET 23 FOR CENTERLINE "G3", "G4", "G5", "H" & "H1" PROFILES.
3. HOUSE LATERALS ARE SHOWING AT APPROXIMATE LOCATION.

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

REV.	DATE	DESCRIPTION	BY

CDG ENGINEERS
One Campbell Plaza
St. Louis, Missouri 63139
T. 314 781 7770
F. 314 781 9075
Missouri State Certificate of Authority # 1271

Engineer Seal

PRELIMINARY

STEPHEN G. HILDERBRAND, P.E.
PROFESSIONAL ENGINEER
P.E. No. E-25381
Date:

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM-BADEN RELIEF PHASE IV (HEBERT) (DARVER TO 69TH) 11797-015.1

VILLAGE OF HILLSDALE, MISSOURI

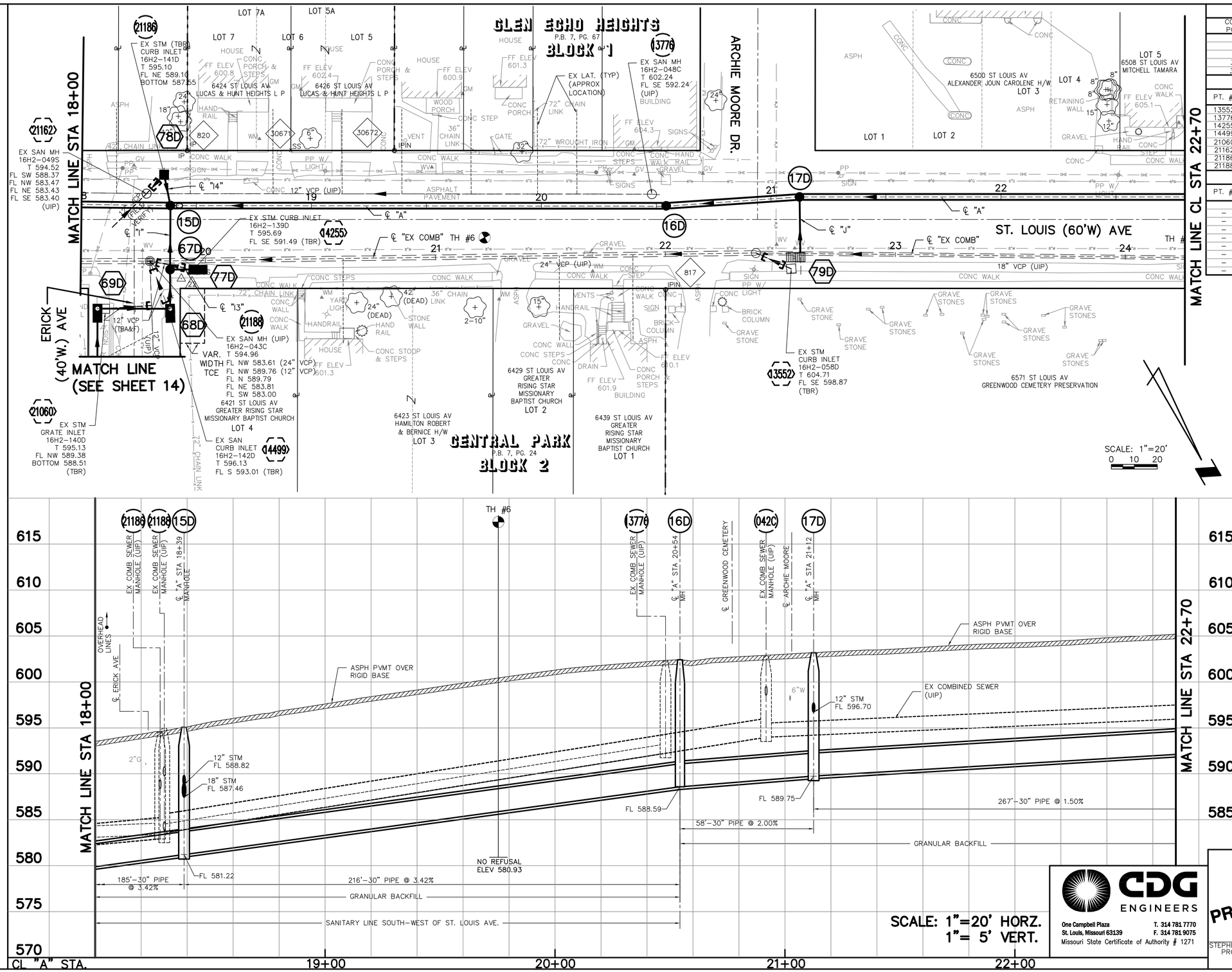
Designed S.G.H.
Drawn K.P.
Checked J.F.M.
Date MARCH, 2020
Sheet No 5 of 29

March 2, 2020

BASE MAP: 16-H-2

11797-[P4-P28]

Path: T:\Working\18102 - MSD - Harlem Baden Package 5\Drawings\
Plotted on: 3/02/20 @ 02:10:22PM by kpolovina



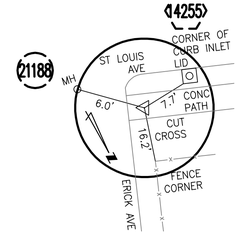
POINT TABLE				
CONTROL POINT #	MSD ID #	NORTHING	EASTING	DESCRIPTION
22	–	1038630.51	880619.07	CONTROL POINT (CROSS)
817	–	1038737.09	880437.34	IPIN
820	–	1038583.04	880589.70	IP
30671	–	1038604.83	880550.30	CROSS
30672	–	1038626.82	880511.01	IPIN

EXISTING STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
13552	13552	16H2-058D	1038755.71	880385.21	EX STM INLET (TBR)
13776	13776	16H2-048C	1038697.87	880422.36	EX SAN MH (UIP)
14255	14255	16H2-139D	1038629.64	880612.52	EX STM INLET (TBR)
14499	14499	16H2-142D	1038641.03	880630.49	EX COMB SEWER INLET (TBR)
21060	21060	16H2-140D	1038625.79	880654.44	EX STM INLET (TBR)
21162	21162	16H2-141D	1038587.30	880603.58	EX STM INLET (TBR)
21186	21186	16H2-049S	1038590.84	880614.26	EX COMB SEWER MH (UIP)
21188	21188	16H2-043C	1038617.20	880627.26	EX COMB SEWER MH (UIP)

NEW STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
–	15D	–	1038600.41	880607.75	MH
–	16D	–	1038705.31	880419.41	MH
–	17D	–	1038730.14	880366.85	MH
–	67D	–	1038624.70	880621.40	MH
–	68D	–	1038639.58	880629.68	DOUBLE INLET/MH
–	69D	–	1038624.17	880657.28	DOUBLE INLET/MH
–	77D	–	1038629.64	880612.52	DOUBLE INLET
–	78D	–	1038587.30	880603.58	INLET
–	79D	–	1038753.21	880379.33	4GI

NOTES:

1. SEE SHEET 14 FOR CENTERLINE "I" PROFILE.
2. SEE SHEET 15 FOR CENTERLINE "I1", "I3", & "I4" PROFILES.
3. SEE SHEET 24 FOR CENTERLINE "J" PROFILE.
4. SEE SHEET 29 FOR SPECIAL STRUCTURE DETAILS.
5. HOUSE LATERAL ARE SHOWING AT APPROXIMATE LOCATION.
6. ALL THE PIPES THAT ARE CALLED TBA&F SHALL BE PLUGED TO THE CLOSEST DOWNSTREAM STRUCTURE AND FILLED.



REFERENCE TIE
CONTROL POINT #22
ELEV 596.09

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

REV.	DATE	DESCRIPTION	BY

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM–BADEN RELIEF PHASE IV (HEBERT) (DARVER TO 69TH) 11797–015.1 VILLAGE OF HILLSDALE, MISSOURI

CDG ENGINEERS
One Campbell Plaza
St. Louis, Missouri 63139
T. 314 781 7770
F. 314 781 9075
Missouri State Certificate of Authority # 1271

Engineer Seal

PRELIMINARY

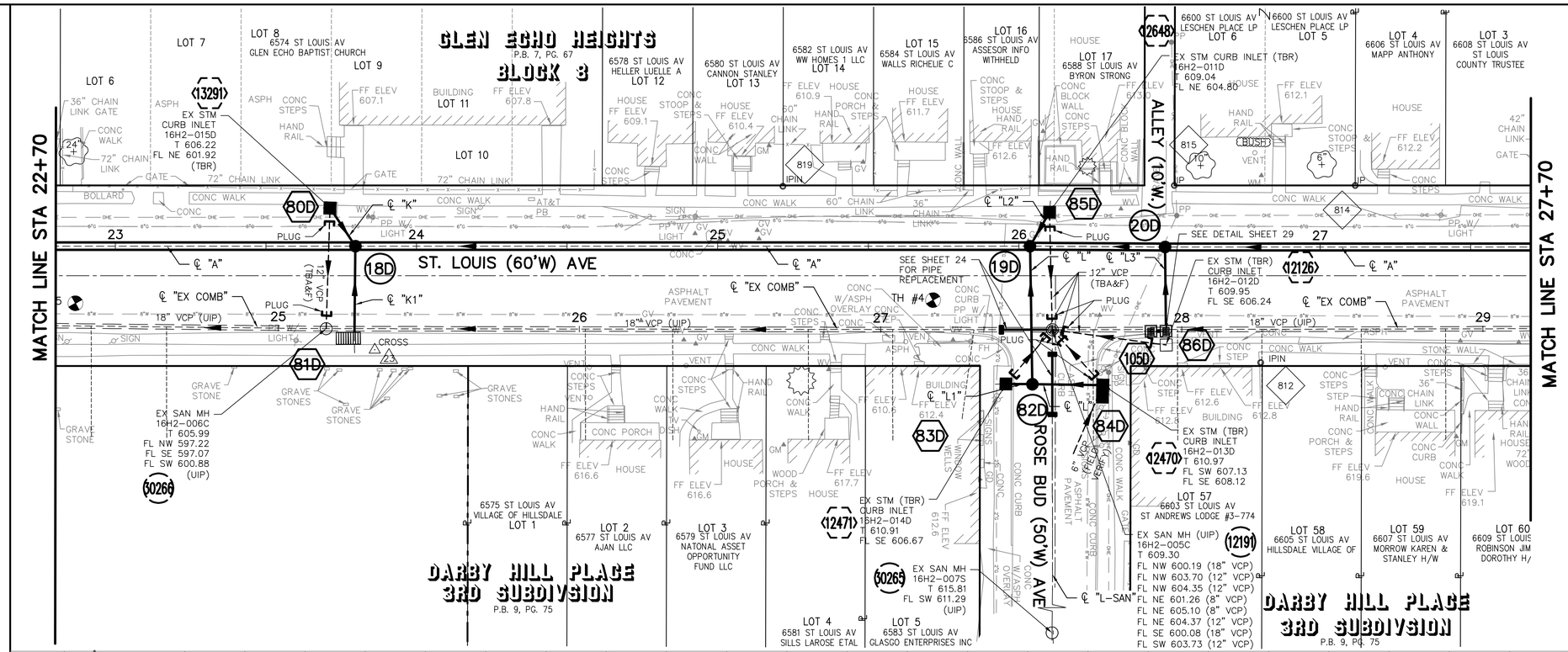
STEPHEN G. HILDERBRAND, P.E.
PROFESSIONAL ENGINEER
P.E. No. E–25381
Date: March 2, 2020

Designed S.G.H.
Drawn K.P.
Checked J.F.M.
Date MARCH, 2020
Sheet No 6 of 29

BASE MAP: 16–H–2

11797–[P5–P28]

Path: T:\Working\18102 – MSD – Harlem Baden Package 5\Drawings\
Plotted on: 3/02/20 @ 02:11:05PM by kpolovina



POINT TABLE				
CONTROL POINT #	MSD ID #	NORTHING	EASTING	DESCRIPTION
23	–	1038893.30	880144.43	CONTROL POINT (CROSS)
812	–	1039040.00	879889.43	IPIN
814	–	1039003.84	879833.40	IP
815	–	1038974.66	879885.86	IP
819	–	1038911.66	879999.57	IPIN

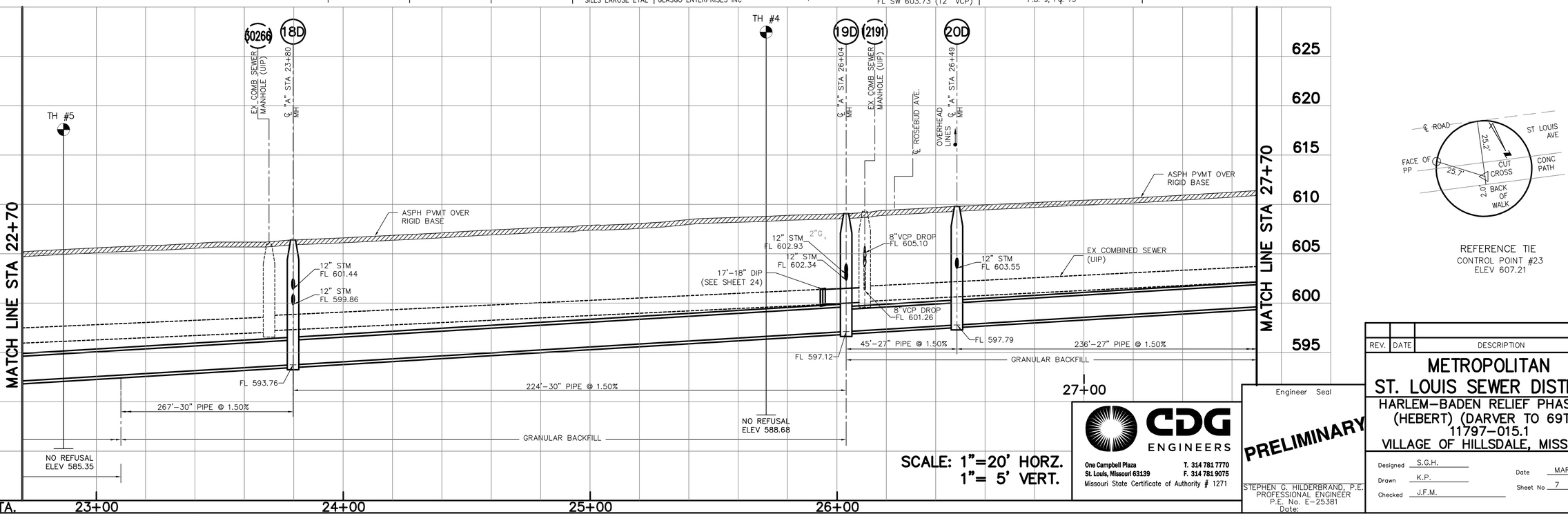
EXISTING STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
12126	12126	16H2–012D	1039019.67	879914.01	EX STM INLET (TBR)
12191	12191	16H2–005C	1038996.84	879944.62	EX COMB SEWER MH (UIP)
12470	12470	16H2–013D	1039021.07	879938.87	EX STM INLET (TBR)
12471	12471	16H2–014D	1039005.11	879966.80	EX STM INLET (TBR)
12648	12648	16H2–011D	1038962.26	879926.39	EX STM INLET (TBR)
13291	13291	16H2–015D	1038844.90	880134.46	EX STM INLET (TBR)
30265	30265	16H2–097S	1039208.99	880062.39	EX SAN MH (UIP)
30266	30266	16H2–006C	1038879.32	880155.11	EX COMB SEWER MH (UIP)

NEW STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
–	18D	–	1038860.09	880133.27	MH
–	19D	–	1038968.99	879937.54	MH
–	20D	–	1038991.04	879898.49	MH
–	80D	–	1038844.90	880134.46	INLET
–	81D	–	1038886.65	880148.48	4GI
–	82D	–	1039009.44	879959.16	MH
–	83D	–	1039005.11	879966.80	INLET
–	84D	–	1039021.07	879938.87	DOUBLE INLET
–	85D	–	1038962.26	879926.39	INLET
–	86D	–	1039015.59	879911.82	2GI/SI
–	105D	–	1039013.20	879916.21	2GI/SI

NOTES:

1. SEE SHEET 24 FOR CENTERLINE "K" ,"K1", "L", "L1", "L2", "L3", "EX COMB", & "L–SAN" PROFILES.
2. SEE SHEET 29 FOR SPECIAL STRUCTURE DETAILS.
3. HOUSE LATERALS ARE SHOWING AT APPROXIMATE LOCATIONS.
4. ALL THE PIPES THAT ARE CALLED TBA&F SHALL BE PLUGED TO THE CLOSEST DOWNSTREAM STRUCTURE AND FILLED.

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.



SCALE: 1"=20' HORZ.
1"= 5' VERT.

REFERENCE TIE
CONTROL POINT #23
ELEV 607.21

REV.	DATE	DESCRIPTION	BY

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM–BADEN RELIEF PHASE IV (HEBERT) (DARVER TO 69TH) 11797–015.1

VILLAGE OF HILLSDALE, MISSOURI

CDG ENGINEERS
One Campbell Plaza T. 314 781 7770
St. Louis, Missouri 63139 F. 314 781 9075
Missouri State Certificate of Authority # 1271

Engineer Seal

PRELIMINARY

STEPHEN G. HILDERBRAND, P.E.
PROFESSIONAL ENGINEER
P.E. No. E–25381
Date:

Designed S.G.H.
Drawn K.P.
Checked J.F.M.

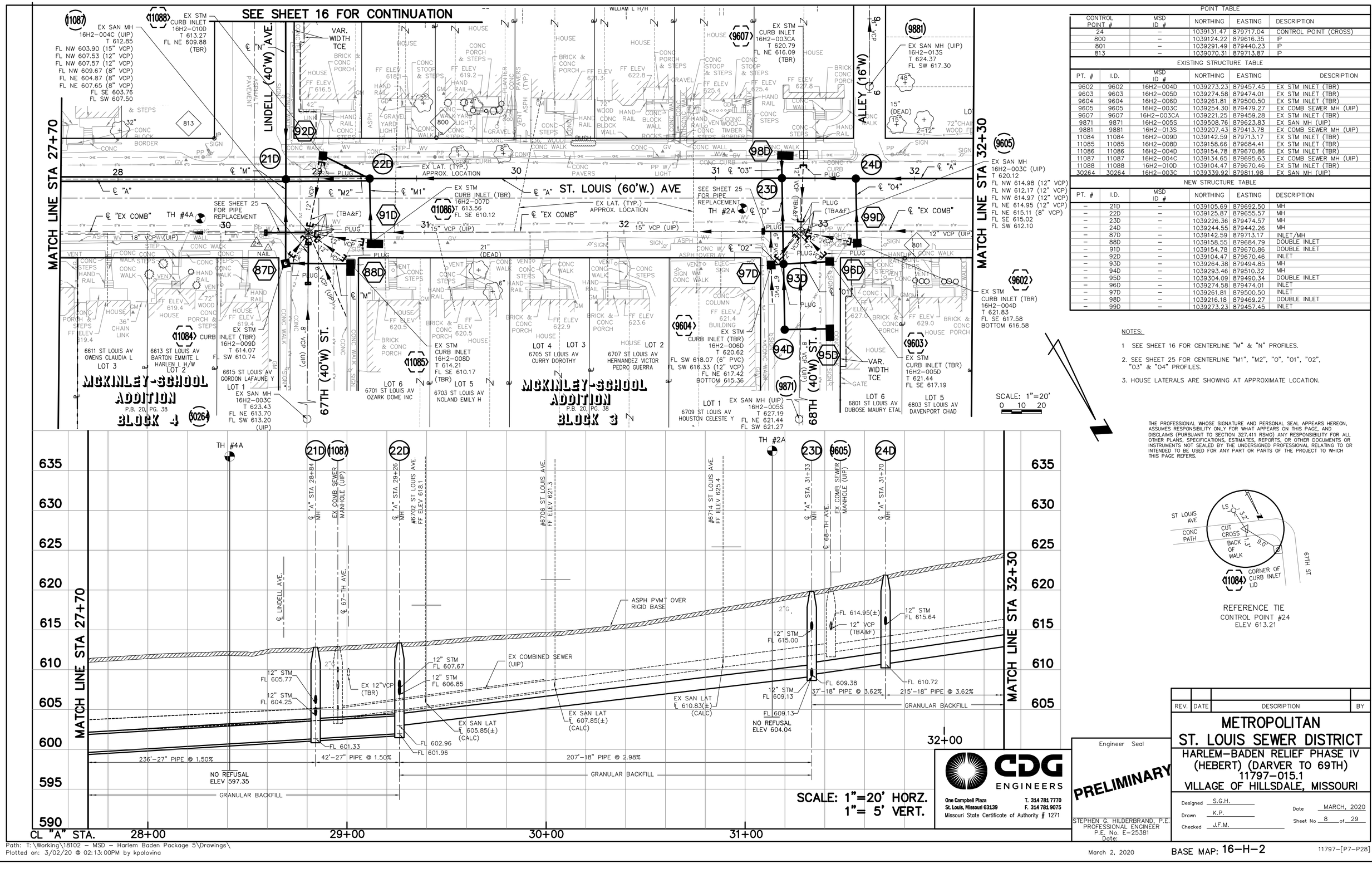
Date MARCH, 2020
Sheet No 7 of 29

March 2, 2020

BASE MAP: 16–H–2

11797–[P6–P28]

Path: T:\Working\18102 – MSD – Harlem Baden Package 5\Drawings\
Plotted on: 3/02/20 @ 02:11:55PM by kpolovina



POINT TABLE				
CONTROL POINT #	MSD ID #	NORTHING	EASTING	DESCRIPTION
24	–	1039131.47	879717.04	CONTROL POINT (CROSS)
800	–	1039124.22	879616.35	IP
801	–	1039291.49	879440.23	IP
813	–	1039070.31	879713.87	IP

EXISTING STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
9602	9602	16H2–004D	1039273.23	879457.45	EX STM INLET (TBR)
9603	9603	16H2–005D	1039274.58	879474.01	EX STM INLET (TBR)
9604	9604	16H2–006D	1039261.81	879500.50	EX STM INLET (TBR)
9605	9605	16H2–003C	1039254.30	879479.27	EX COMB SEWER MH (UIP)
9607	9607	16H2–003CA	1039221.25	879459.28	EX STM INLET (TBR)
9871	9871	16H2–005S	1039508.76	879623.83	EX SAN MH (UIP)
9881	9881	16H2–013S	1039207.43	879413.78	EX COMB SEWER MH (UIP)
11084	11084	16H2–009D	1039142.59	879713.17	EX STM INLET (TBR)
11085	11085	16H2–008D	1039158.66	879684.41	EX STM INLET (TBR)
11086	11086	16H2–004D	1039154.78	879670.86	EX STM INLET (TBR)
11087	11087	16H2–004C	1039134.65	879695.63	EX COMB SEWER MH (UIP)
11088	11088	16H2–010D	1039104.47	879670.46	EX STM INLET (TBR)
30264	30264	16H2–003C	1039339.92	879811.98	EX SAN MH (UIP)

NEW STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
–	21D	–	1039105.69	879692.50	MH
–	22D	–	1039125.87	879655.57	MH
–	23D	–	1039226.36	879474.57	MH
–	24D	–	1039244.55	879442.26	MH
–	87D	–	1039142.59	879713.17	INLET/MH
–	88D	–	1039158.55	879684.79	DOUBLE INLET
–	91D	–	1039154.78	879670.86	DOUBLE INLET
–	92D	–	1039104.47	879670.46	INLET
–	93D	–	1039264.38	879494.85	MH
–	94D	–	1039293.46	879510.32	MH
–	95D	–	1039304.09	879490.34	DOUBLE INLET
–	96D	–	1039274.58	879474.01	INLET
–	97D	–	1039261.81	879500.50	INLET
–	98D	–	1039216.18	879469.27	DOUBLE INLET
–	99D	–	1039273.23	879457.45	INLET

NOTES:

1. SEE SHEET 16 FOR CENTERLINE "M" & "N" PROFILES.
2. SEE SHEET 25 FOR CENTERLINE "M1", "M2", "O", "O1", "O2", "O3" & "O4" PROFILES.
3. HOUSE LATERALS ARE SHOWING AT APPROXIMATE LOCATION.

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

REFERENCE TIE
CONTROL POINT #24
ELEV 613.21

REV.	DATE	DESCRIPTION	BY

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM–BADEN RELIEF PHASE IV (HEBERT) (DARVER TO 69TH) 11797–015.1 VILLAGE OF HILLSDALE, MISSOURI

CDG ENGINEERS
One Campbell Plaza T. 314 781 7770
St. Louis, Missouri 63139 F. 314 781 9075
Missouri State Certificate of Authority # 1271

Engineer Seal

PRELIMINARY

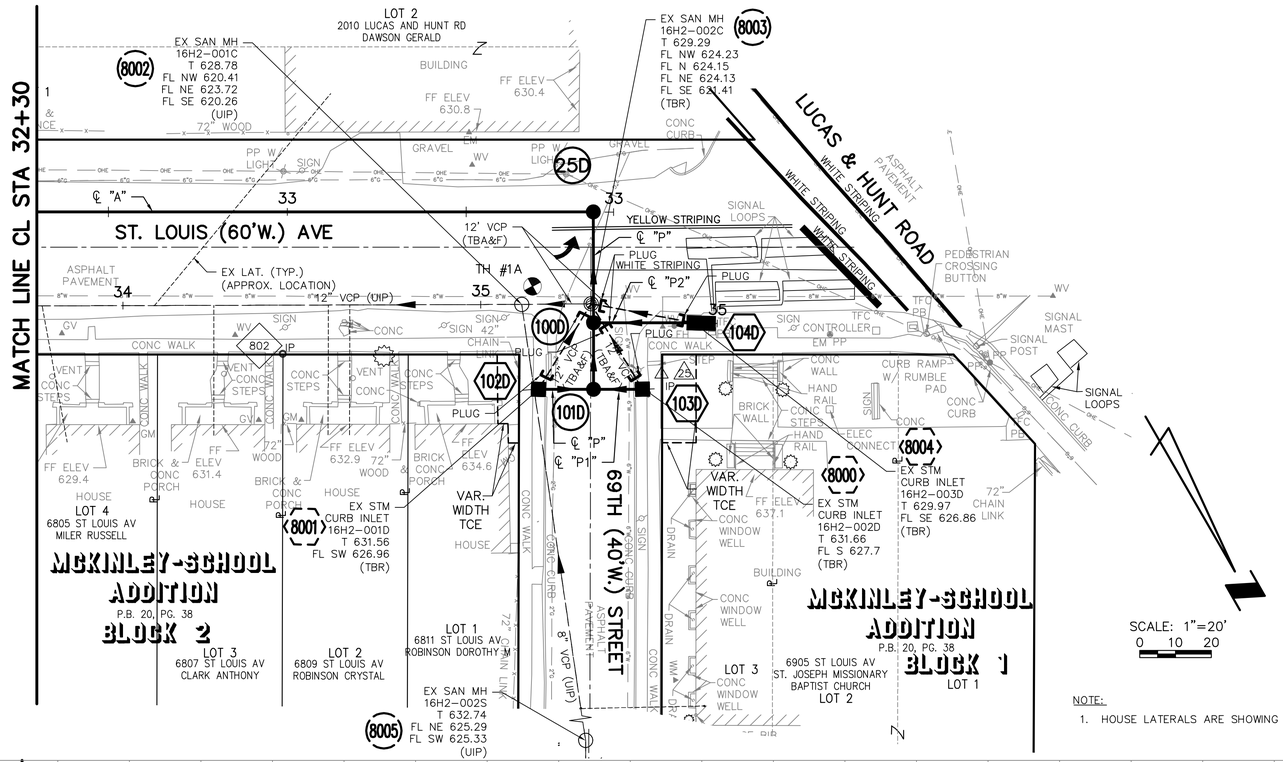
STEPHEN G. HILDERBRAND, P.E.
PROFESSIONAL ENGINEER
P.E. No. E–25381
Date: March 2, 2020

Designed S.G.H.
Drawn K.P.
Checked J.F.M.
Date MARCH, 2020
Sheet No 8 of 29

BASE MAP: 16–H–2

11797–[P7–P28]

Path: T:\Working\18102 – MSD – Harlem Baden Package 5\Drawings\
Plotted on: 3/02/20 @ 02:13:00PM by kpolovina



NOTE:

1. HOUSE LATERALS ARE SHOWING AT APPROXIMATE LOCATION.

POINT TABLE

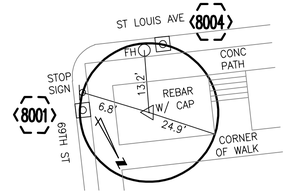
CONTROL POINT #	MSD ID #	NORTHING	EASTING	DESCRIPTION
25	–	1039398.00	879259.76	CONTROL POINT (CROSS)
802	–	1039341.52	879349.43	IP

EXISTING STRUCTURE TABLE

PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
8000	8000	16H2-002D	1039399.05	879266.44	EX STM INLET (TBR)
8001	8001	16H2-001D	1039384.95	879291.83	EX STM INLET (TBR)
8002	8002	16H2-001C	1039361.94	879284.41	EX SAN MH (UIP)
8003	8003	16H2-002C	1039371.21	879267.36	EX COMB SEWER MH (TBR)
8004	8004	16H2-003C	1039389.86	879244.83	EX STM INLET (TBR)
8005	8005	16H2-002S	1039479.21	879328.86	EX COMB SEWER MH (UIP)

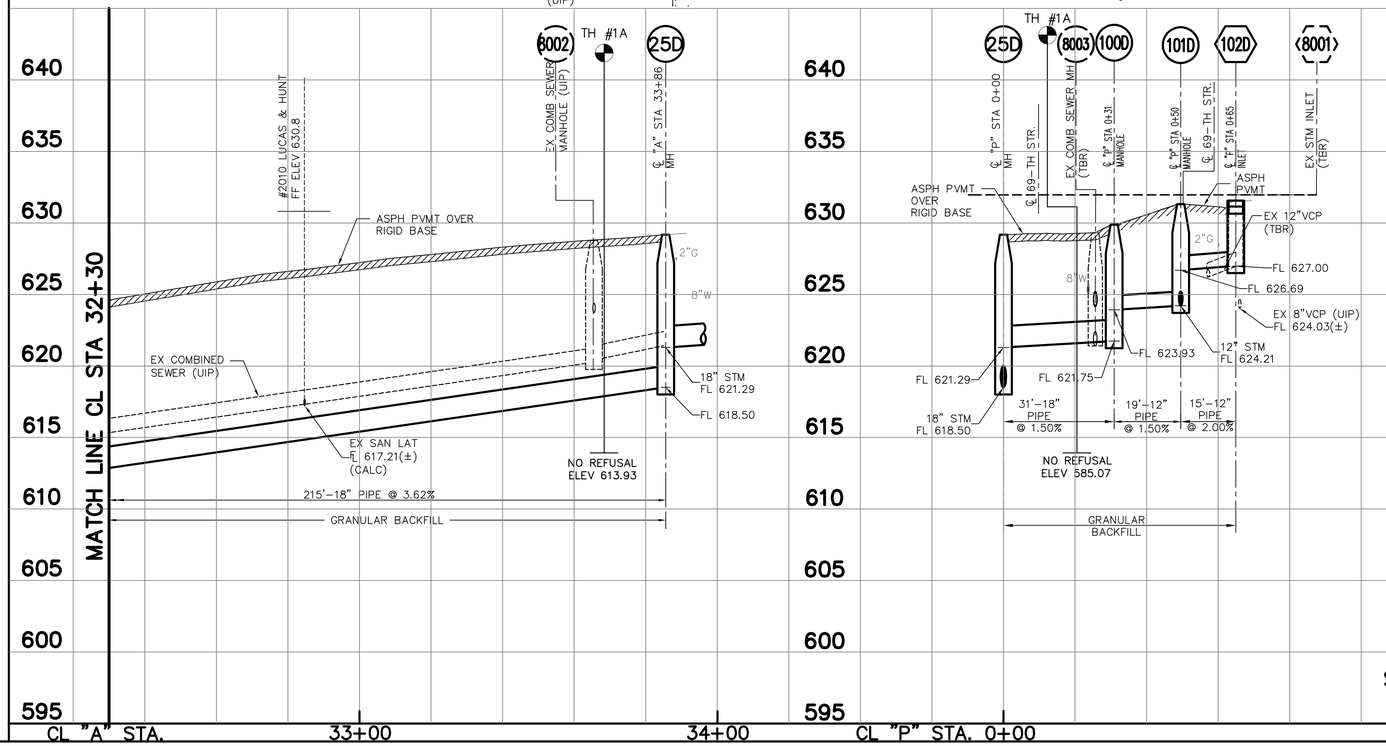
NEW STRUCTURE TABLE

PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
–	25D	–	1039349.36	879260.20	MH
–	100D	–	1039376.18	879269.33	MH
–	101D	–	1039392.41	879278.40	MH
–	102D	–	1039384.95	879291.83	INLET
–	103D	–	1039399.05	879266.44	INLET
–	104D	–	1039389.86	879244.83	DOUBLE INLET



REFERENCE TIE
CONTROL POINT #25
ELEV 631.60

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.



REV.	DATE	DESCRIPTION	BY

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM-BADEN RELIEF PHASE IV
(HEBERT) (DARVER TO 69TH)
11797-015.1
VILLAGE OF HILLSDALE, MISSOURI

CDG ENGINEERS
One Campbell Plaza
St. Louis, Missouri 63139
T. 314 781 7770
F. 314 781 9075
Missouri State Certificate of Authority # 1271

Engineer Seal

PRELIMINARY

STEPHEN G. HILDERBRAND, P.E.
PROFESSIONAL ENGINEER
P.E. No. E-25381
Date:

Designed S.G.H.
Drawn K.P.
Checked J.F.M.

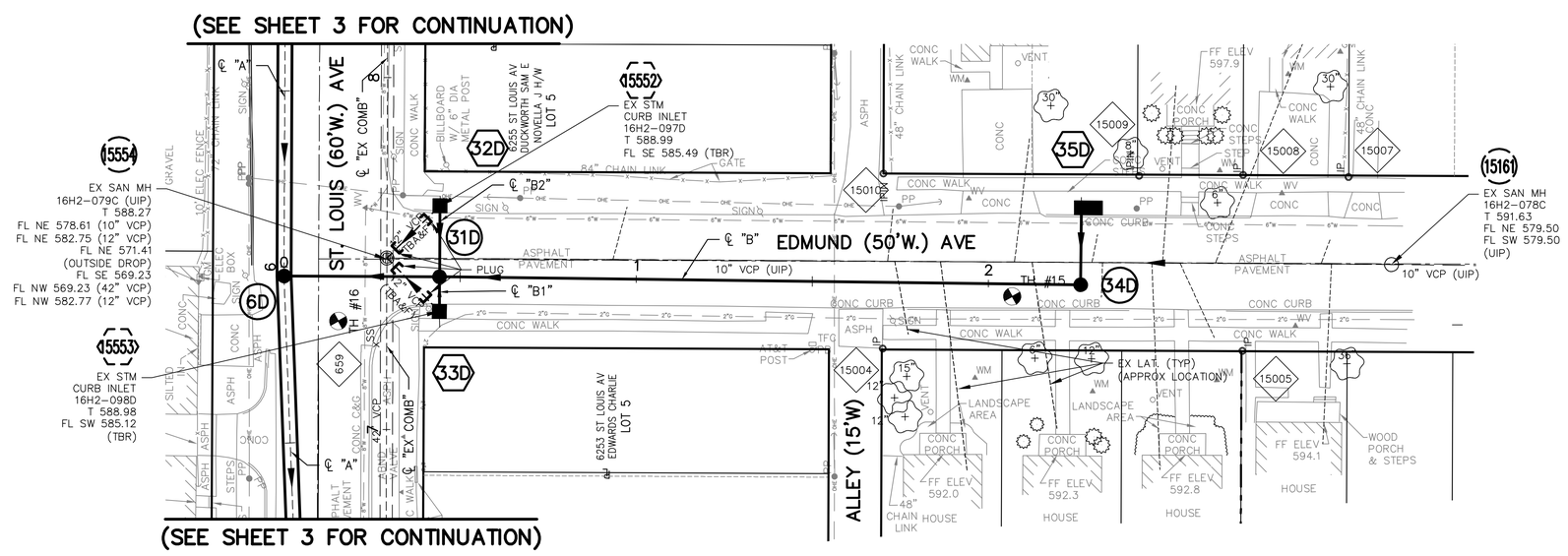
Date MARCH, 2020
Sheet No 9 of 29

March 2, 2020

BASE MAP: 16-H-2

11797-[P8-P28]

Path: T:\Working\18102 - MSD - Harlem Baden Package 5\Drawings\
Plotted on: 3/02/20 @ 02:14:16PM by kpolovina



POINT TABLE				
CONTROL POINT #	MSD ID #	NORTHING	EASTING	DESCRIPTION
659	–	1038007.22	881720.29	CROSS
15004	–	1038132.66	881790.54	IP
15005	–	1038221.81	881840.39	IP
15007	–	1038272.00	881811.65	IP
15008	–	1038246.06	881796.71	IP
15009	–	1038220.09	881782.65	IPIN
15010	–	1038156.83	881747.10	IPIN

EXISTING STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
15161	15161	16H2-078C	1038270.70	881839.24	EX SAN MH (UIP)
15552	15552	16H2-097D	1038042.10	881694.45	EX STM INLET (TBR)
15553	15553	16H2-098D	1038027.45	881720.65	EX STM INLET (TBR)
15554	15554	16H2-079C	1038021.70	881700.18	EX COMB SEWER MH (UIP)

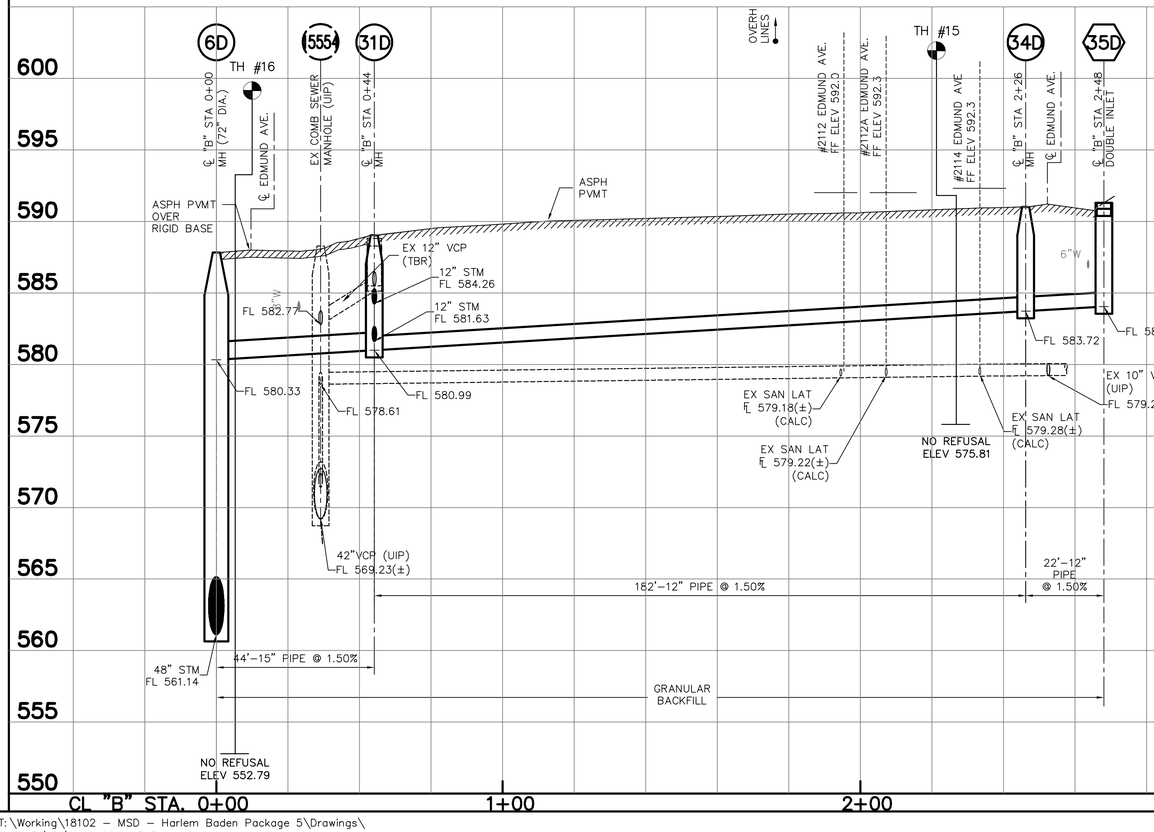
NEW STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
–	6D	–	1037993.65	881690.57	MH (72" DIA.)
–	31D	–	1038032.26	881712.04	MH
–	32D	–	1038042.10	881694.45	INLET
–	33D	–	1038027.45	881720.65	INLET
–	34D	–	1038190.59	881801.77	MH
–	35D	–	1038201.31	881782.74	DOUBLE INLET

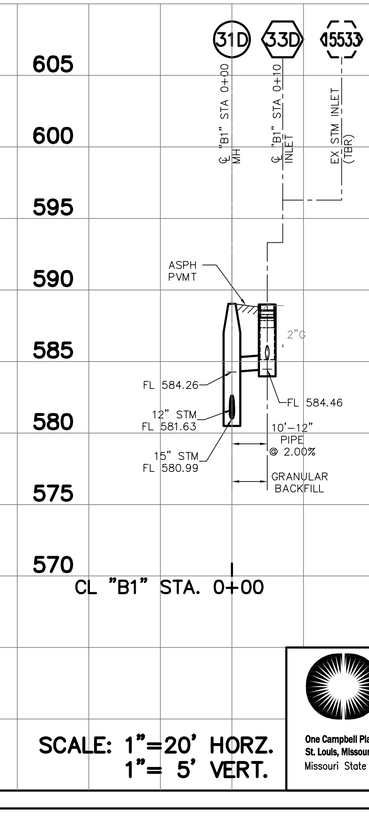
NOTES:

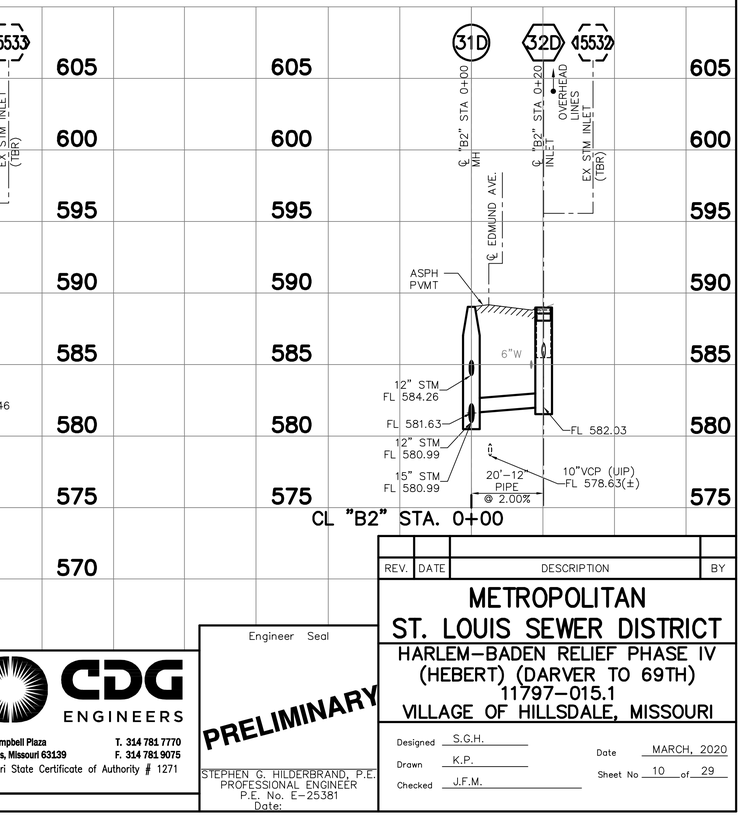
1. HOUSE LATERALS ARE SHOWING AT APPROXIMATE LOCATION.
2. ALL THE PIPES THAT ARE CALLED TBA&F SHALL BE PLUGED TO THE CLOSEST DOWNSTREAM STRUCTURE AND FILLED.

SCALE: 1"=20'
0 10 20

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.







SCALE: 1"=20' HORZ.
1"= 5' VERT.

CDG ENGINEERS
One Campbell Plaza
St. Louis, Missouri 63139
T. 314 781 7770
F. 314 781 9075
Missouri State Certificate of Authority # 1271

Engineer Seal

PRELIMINARY

STEPHEN G. HILDERBRAND, P.E.
PROFESSIONAL ENGINEER
P.E. No. E-25381
Date:

REV.	DATE	DESCRIPTION	BY

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM-BADEN RELIEF PHASE IV (HEBERT) (DARVER TO 69TH) 11797-015.1 VILLAGE OF HILLSDALE, MISSOURI

Designed S.G.H.
Drawn K.P.
Checked J.F.M.

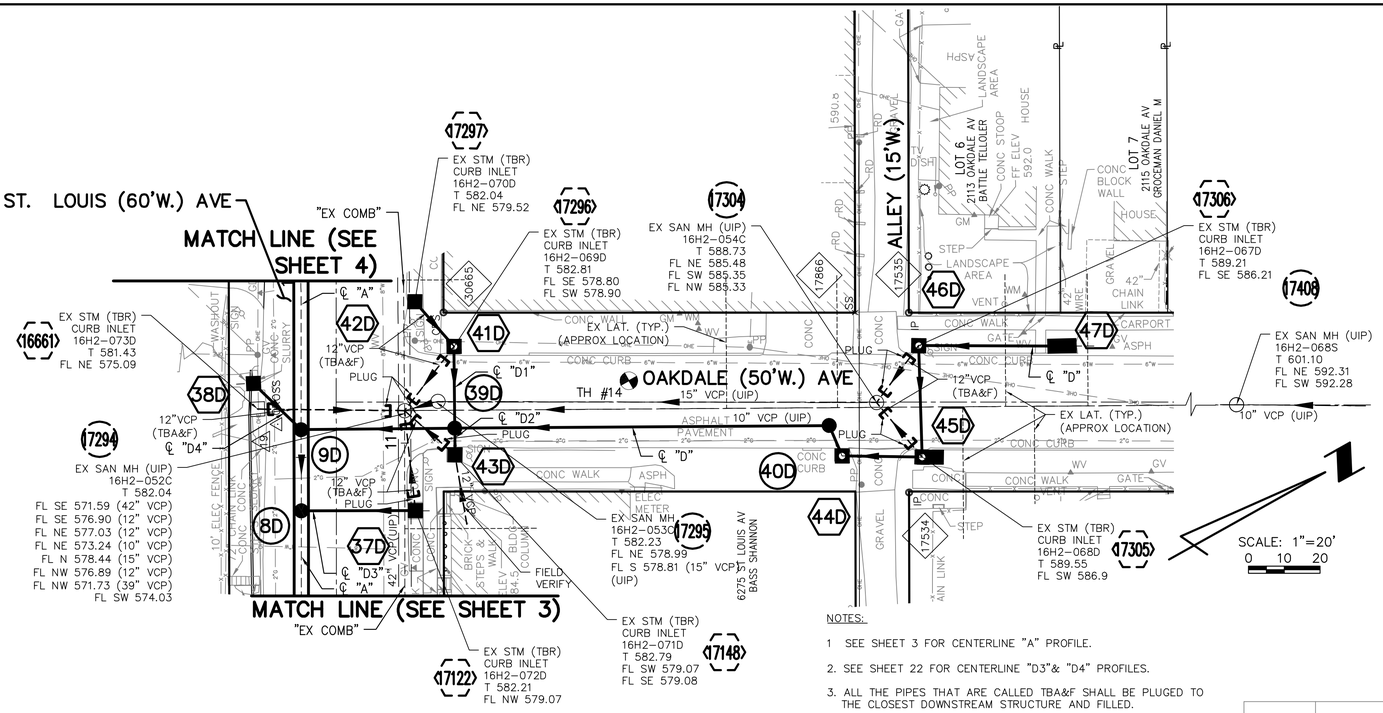
Date MARCH, 2020
Sheet No 10 of 29

March 2, 2020

BASE MAP: 16-H-2

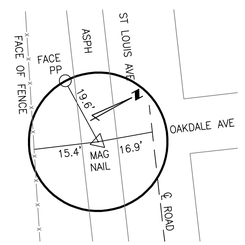
11797-[P9-P28]

Path: T:\Working\18102 - MSD - Harlem Baden Package 5\Drawings\
Plotted on: 3/02/20 @ 02:14:56PM by kpolovina



NOTES:

1. SEE SHEET 3 FOR CENTERLINE "A" PROFILE.
2. SEE SHEET 22 FOR CENTERLINE "D3"& "D4" PROFILES.
3. ALL THE PIPES THAT ARE CALLED TBA&F SHALL BE PLUGED TO THE CLOSEST DOWNSTREAM STRUCTURE AND FILLED.
4. HOUSE LATERALS ARE SHOWING AT APPROXIMATE LOCATION.



REFERENCE TIE
CONTROL POINT #19
ELEV 581.34

POINT TABLE

CONTROL POINT #	MSD ID #	NORTHING	EASTING	DESCRIPTION
19	–	1038163.84	881371.25	CONTROL POINT (CROSS)
17534	–	1038308.59	881473.87	IP
17535	–	1038333.03	881429.95	IP
17866	–	1038319.94	881422.59	CROSS
30665	–	1038219.50	881366.51	CPS

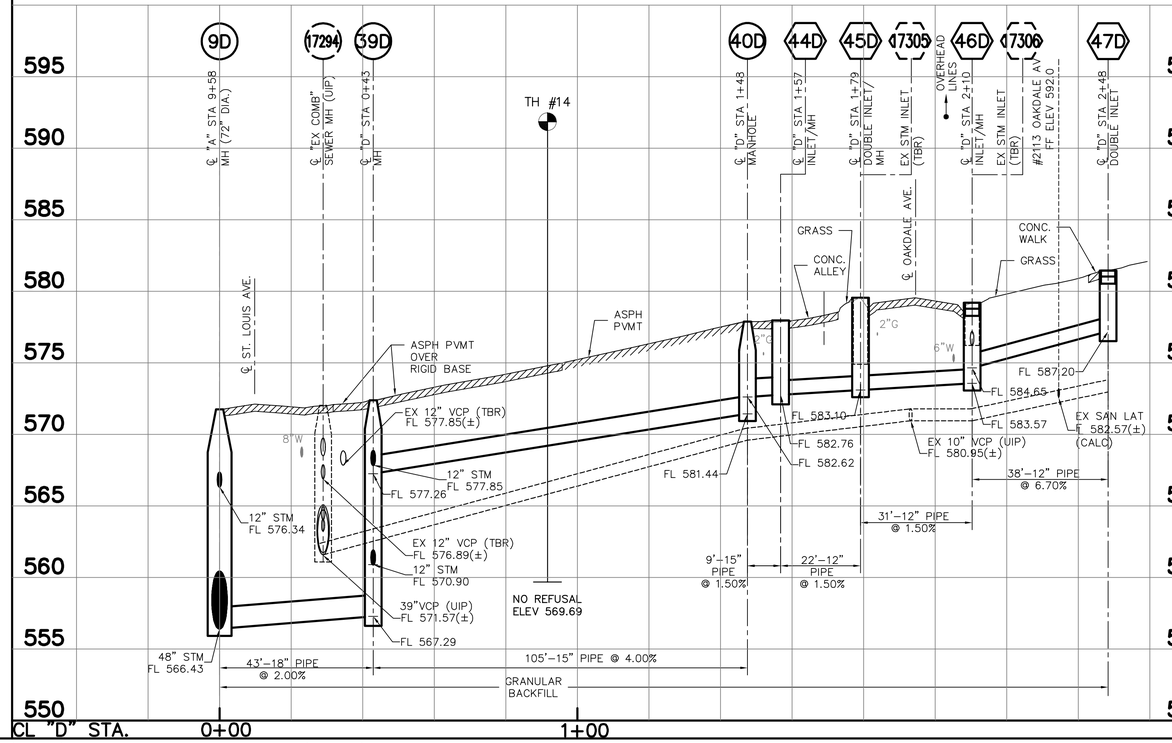
EXISTING STRUCTURE TABLE

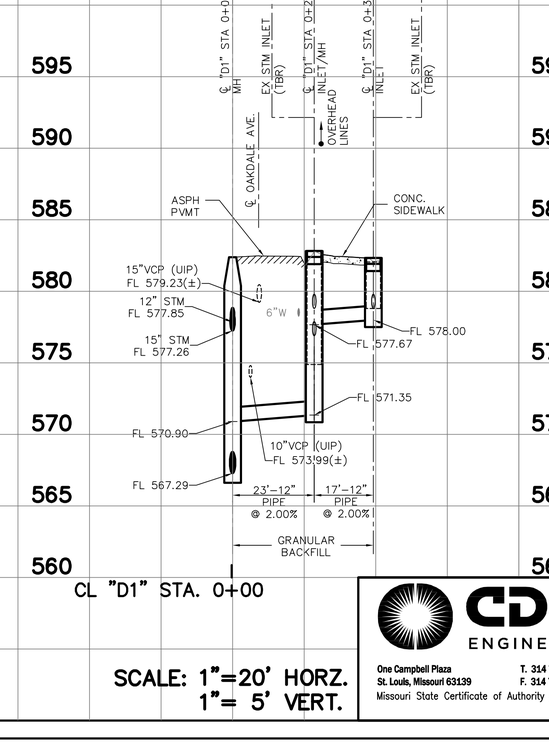
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
16661	16661	16H2-073D	1038160.95	881364.78	EX STM INLET (TBR)
17122	17122	16H2-072D	1038185.65	881411.04	EX STM INLET (TBR)
17148	17148	16H2-071D	1038202.92	881402.84	EX STM INLET (TBR)
17294	17294	16H2-052C	1038196.64	881385.19	EX COMB SEWER MH (UIP)
17295	17295	16H2-053C	1038206.02	881387.49	EX SAN MH (UIP)
17296	17296	16H2-069D	1038217.48	881376.27	EX STM INLET (TBR)
17297	17297	16H2-070D	1038213.99	881360.01	EX STM INLET (TBR)
17304	17304	16H2-054C	1038312.90	881447.52	EX COMB SEWER MH (UIP)
17305	17305	16H2-068D	1038316.59	881467.01	EX STM INLET (TBR)
17306	17306	16H2-067D	1038330.95	881439.36	EX STM INLET (TBR)
17408	17408	16H2-068S	1038508.68	881556.53	EX SAN MH (UIP)

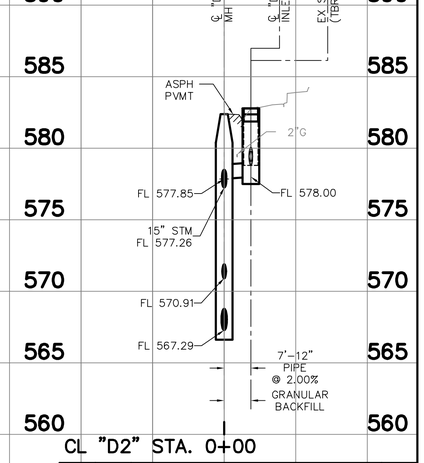
NEW STRUCTURE TABLE

PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
–	8D	–	1038157.80	881395.55	MH (72" DIA.)
–	9D	–	1038168.82	881375.74	MH (72" DIA.)
–	37D	–	1038185.65	881411.04	INLET
–	38D	–	1038163.48	881357.99	INLET
–	39D	–	1038206.50	881396.31	MH
–	40D		1038298.22	881446.67	MH
–	41D	–	1038217.43	881376.29	INLET/MH
–	42D	–	1038213.99	881360.01	INLET
–	43D	–	1038202.92	881402.84	INLET
–	44D	–	1038297.23	881455.84	INLET/MH
–	45D	–	1038316.59	881467.01	DOUBLE INLET/MH
–	46D	–	1038330.95	881439.36	INLET/MH
–	47D		1038364.12	881458.00	DOUBLE INLET

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.







SCALE: 1"=20' HORZ.
1"= 5' VERT.

REV.	DATE	DESCRIPTION	BY

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM–BADEN RELIEF PHASE IV (HEBERT) (DARVER TO 69TH) 11797–015.1 VILLAGE OF HILLSDALE, MISSOURI

CDG ENGINEERS
One Campbell Plaza, St. Louis, Missouri 63139
T. 314 781 7770 F. 314 781 9075
Missouri State Certificate of Authority # 1271

Engineer Seal

PRELIMINARY

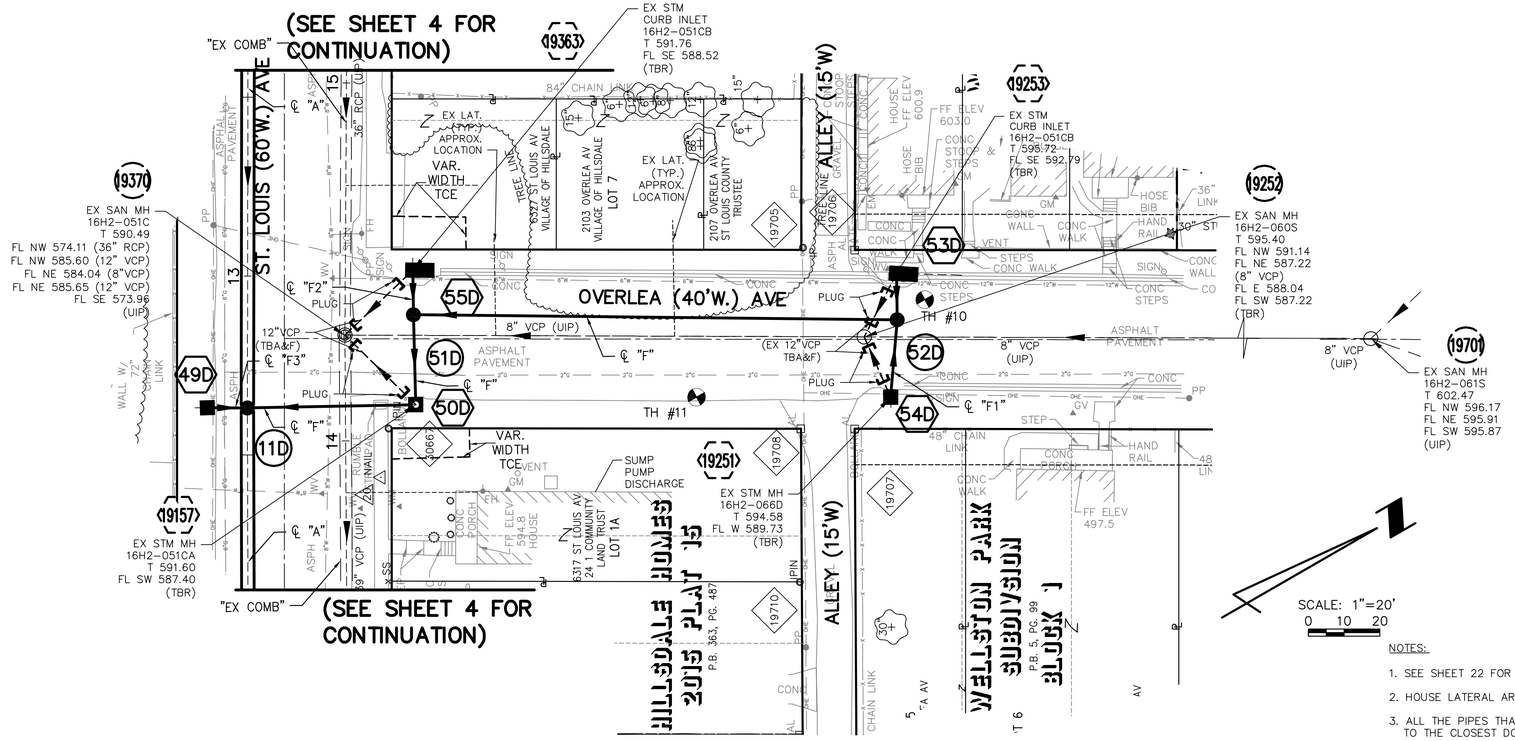
STEPHEN G. HILDERBRAND, P.E.
PROFESSIONAL ENGINEER
P.E. No. E-25381
Date: March 2, 2020

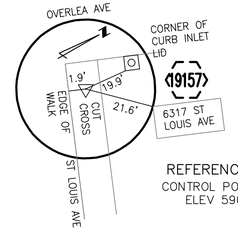
Designed S.G.H.
Drawn K.P.
Checked J.F.M.
Date MARCH, 2020
Sheet No 11 of 29

BASE MAP: 16–H–2

11797–[P10–P28]

Path: T:\Working\18102 – MSD – Harlem Baden Package 5\Drawings\
Plotted on: 3/02/20 @ 02:16:15PM by kpolovina





REFERENCE TIE
CONTROL POINT #20
ELEV 590.43

SCALE: 1"=20'
0 10 20

NOTES:

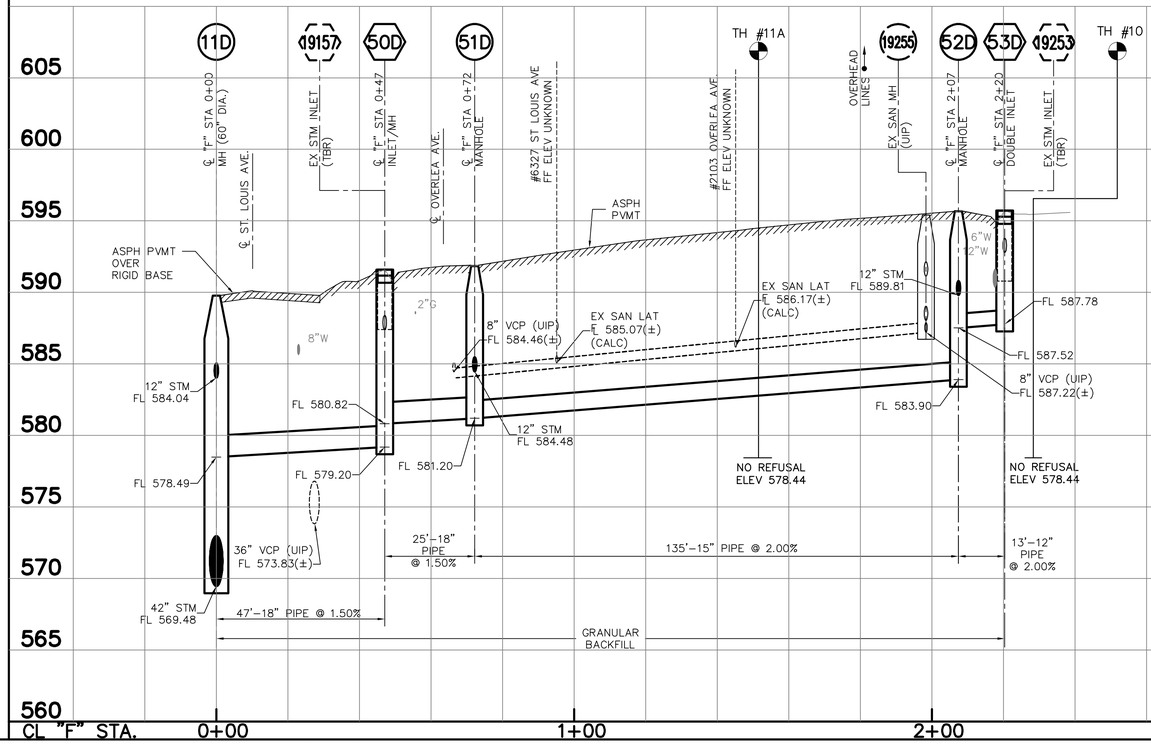
1. SEE SHEET 22 FOR CENTERLINE "F3" PROFILE.
2. HOUSE LATERAL ARE SHOWING AT APPROXIMATE LOCATION.
3. ALL THE PIPES THAT ARE CALLED TBA&F SHALL BE PLUGED TO THE CLOSEST DOWNSTREAM STRUCTURE AND FILLED.

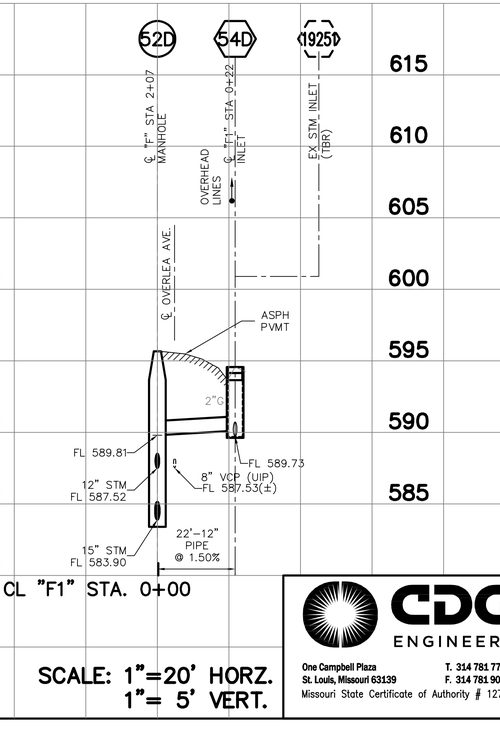
POINT TABLE				
CONTROL POINT #	MSD ID #	NORTHING	EASTING	DESCRIPTION
20	–	1038340.07	881143.73	CONTROL POINT (CROSS)
19705	–	1038474.29	881144.93	IP
19706	–	1038486.64	881152.57	AL
19707	–	1038462.29	881196.24	AL
19708	–	1038449.17	881188.91	AL
19710	–	1038428.14	881226.19	IPIN
30667	–	1038348.53	881132.81	IPIN

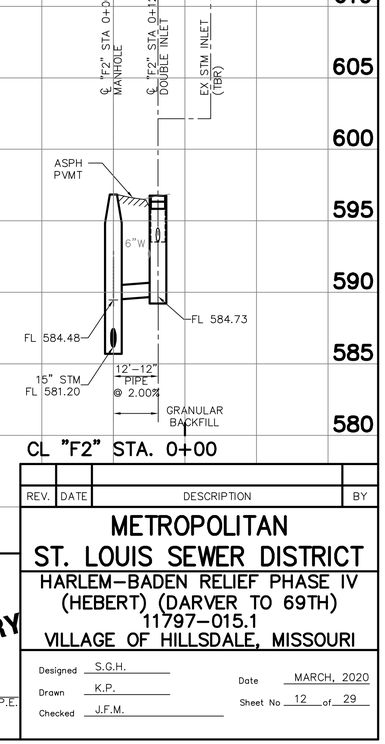
EXISTING STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
19157	19157	16H2-051CA	1038358.43	881130.68	EX STM INLET (TBR)
19251	19251	16H2-066D	1038475.42	881193.39	EX STM INLET (TBR)
19252	19252	16H2-060S	1038477.18	881175.07	EX COMB SEWER MH (UIP)
19253	19253	16H2-051CB	1038493.64	881163.97	EX STM INLET (TBR)
19363	19363	16H2-051CB	1038375.97	881097.43	EX STM INLET (TBR)
19370	19370	16H2-051C	1038350.59	881104.08	EX COMB MH (UIP)
19701	19701	16H2-061S	1038691.16	881295.06	EX SAN MH (UIP)

NEW STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
–	11D	–	1038316.86	881108.62	MH (60" DIA.)
–	49D	–	1038307.10	881103.14	INLET
–	50D	–	1038358.43	881130.68	INLET/MH
–	51D	–	1038370.09	881108.39	MH
–	52D		1038487.53	881175.36	MH
–	53D	–	1038493.64	881163.97	DOUBLE INLET
–	54D	–	1038475.42	881193.39	INLET
–	55D	–	1038375.97	881097.43	DOUBLE INLET

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.







SCALE: 1"=20' HORZ.
1"= 5' VERT.

REV.	DATE	DESCRIPTION	BY

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM–BADEN RELIEF PHASE IV (HEBERT) (DARVER TO 69TH) 11797–015.1

VILLAGE OF HILLSDALE, MISSOURI

CDG ENGINEERS
One Campbell Plaza
St. Louis, Missouri 63139
T. 314 781 7770
F. 314 781 9075
Missouri State Certificate of Authority # 1271

Engineer Seal

PRELIMINARY

STEPHEN G. HILDERBRAND, P.E.
PROFESSIONAL ENGINEER
P.E. No. E-25381
Date:

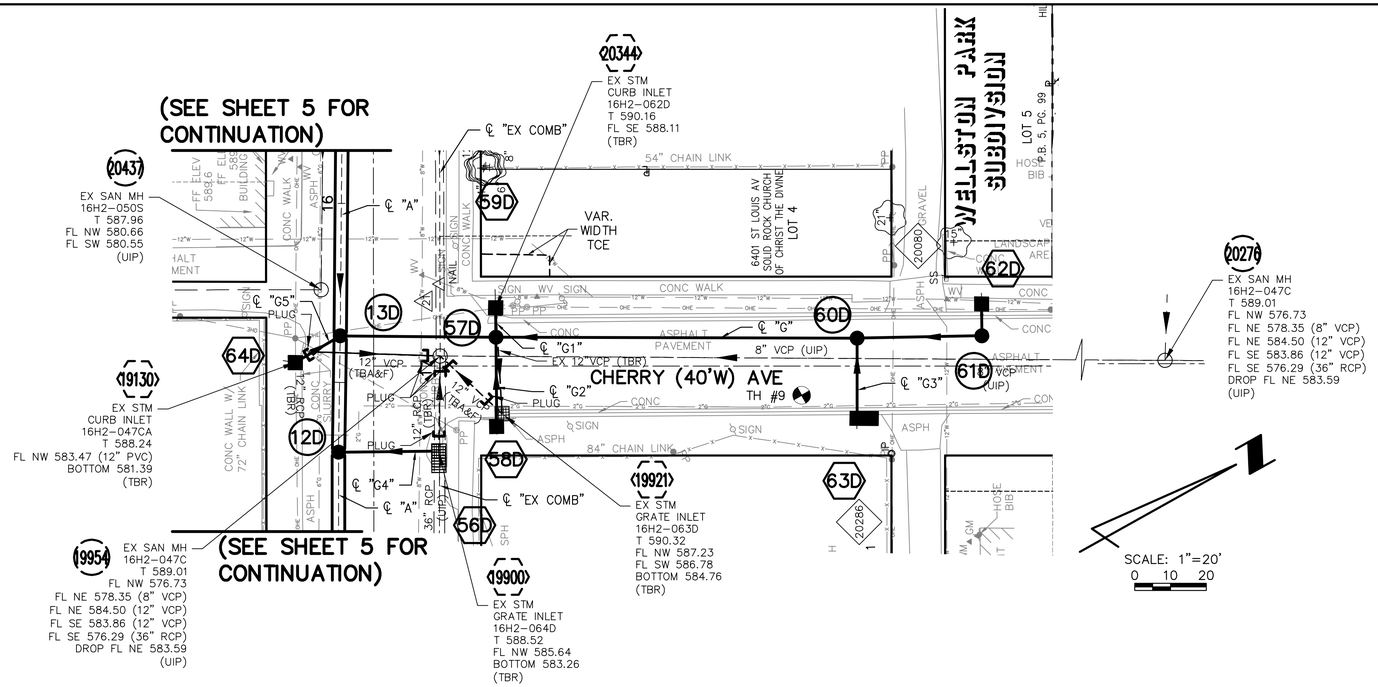
Designed S.G.H.
Drawn K.P.
Checked J.F.M.
Date MARCH, 2020
Sheet No 12 of 29

Path: T:\Working\18102 – MSD – Harlem Baden Package 5\Drawings\
Plotted on: 3/02/20 @ 02:44:55PM by kpolovina

March 2, 2020

BASE MAP: 16–H–2

11797–[P11–P28]



POINT TABLE				
CONTROL POINT #	MSD ID #	NORTHING	EASTING	DESCRIPTION
21	–	1038494.99	880848.04	CONTROL POINT (CROSS)
20080	–	1038619.18	880915.02	CROSS
20286	–	1038581.95	880950.88	IP

EXISTING STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
19130	19130	16H2-047CA	1038448.90	880847.49	EX STM INLET (TBR)
19900	19900	16H2-064D	1038471.88	880888.62	EX STM 2G (TBR)
19921	19921	16H2-063D	1038492.41	880888.14	EX STM GRATE (TBR)
19954	19954	16H2-047C	1038485.15	880865.60	EX COMB SEWER MH (UIP)
20276	20276	16H2-059S	1038763.57	881023.22	EX SAN MH (UIP)
20344	20344	16H2-062D	1038505.25	880861.42	EX STM INLET (TBR)
20437	20431	16H2-050S	1038465.13	880833.18	EX SAN MH (UIP)

NEW STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
–	12D	–	1038447.25	880875.22	MH (60" DIA.)
–	13D	–	1038463.52	880847.07	MH (60" DIA.)
–	56D	–	1038475.06	880890.37	4QI
–	57D	–	1038501.32	880868.60	MH
–	58D	–	1038489.33	880890.52	INLET
–	59D	–	1038505.25	880861.42	INLET
–	60D	–	1038589.32	880918.03	MH
–	61D	–	1038620.07	880934.43	MH
–	62D	–	1038624.33	880926.63	INLET
–	63D	–	1038578.35	880937.57	DOUBLE INLET
–	64D	–	1038448.90	880847.49	INLET

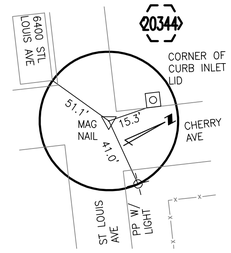
NOTES:

1 SEE SHEET 23 FOR CENTERLINE "G3", "G4" & "G5" PROFILES.

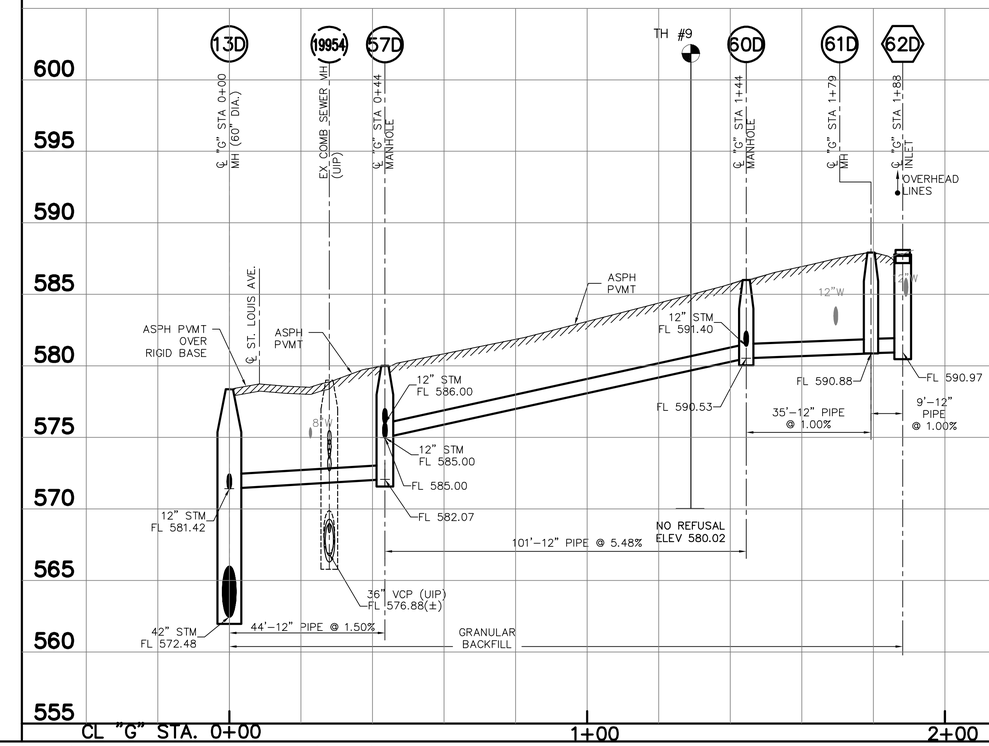
2. HOUSE LATERALS ARE SHOWING AT APPROXIMATE LOCATION.

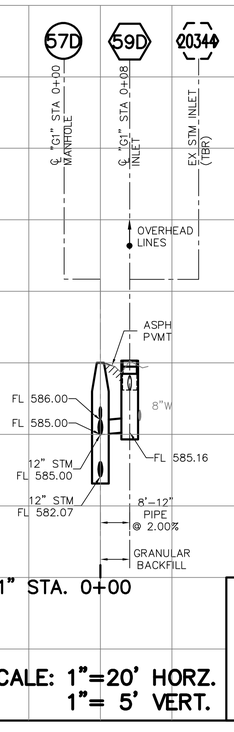
3. ALL THE PIPES THAT ARE CALLED TBA&F SHALL BE PLUGED TO THE CLOSEST DOWNSTREAM STRUCTURE AND FILLED.

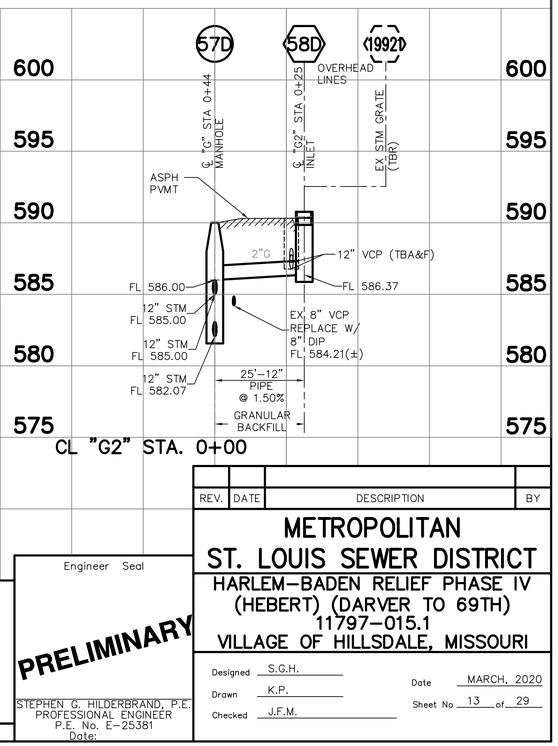
THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.



REFERENCE TIE
CONTROL POINT #21
ELEV 588.72







SCALE: 1"=20' HORZ.
1"= 5' VERT.

REV.	DATE	DESCRIPTION	BY

METROPOLITAN
ST. LOUIS SEWER DISTRICT
HARLEM–BADEN RELIEF PHASE IV
(HEBERT) (DARVER TO 69TH)
11797–015.1
VILLAGE OF HILLSDALE, MISSOURI

CDG ENGINEERS
One Campbell Plaza
St. Louis, Missouri 63139
T. 314 781 7770
F. 314 781 9075
Missouri State Certificate of Authority # 1271

Engineer Seal

PRELIMINARY

STEPHEN G. HILDERBRAND, P.E.
PROFESSIONAL ENGINEER
P.E. No. E–25381
Date:

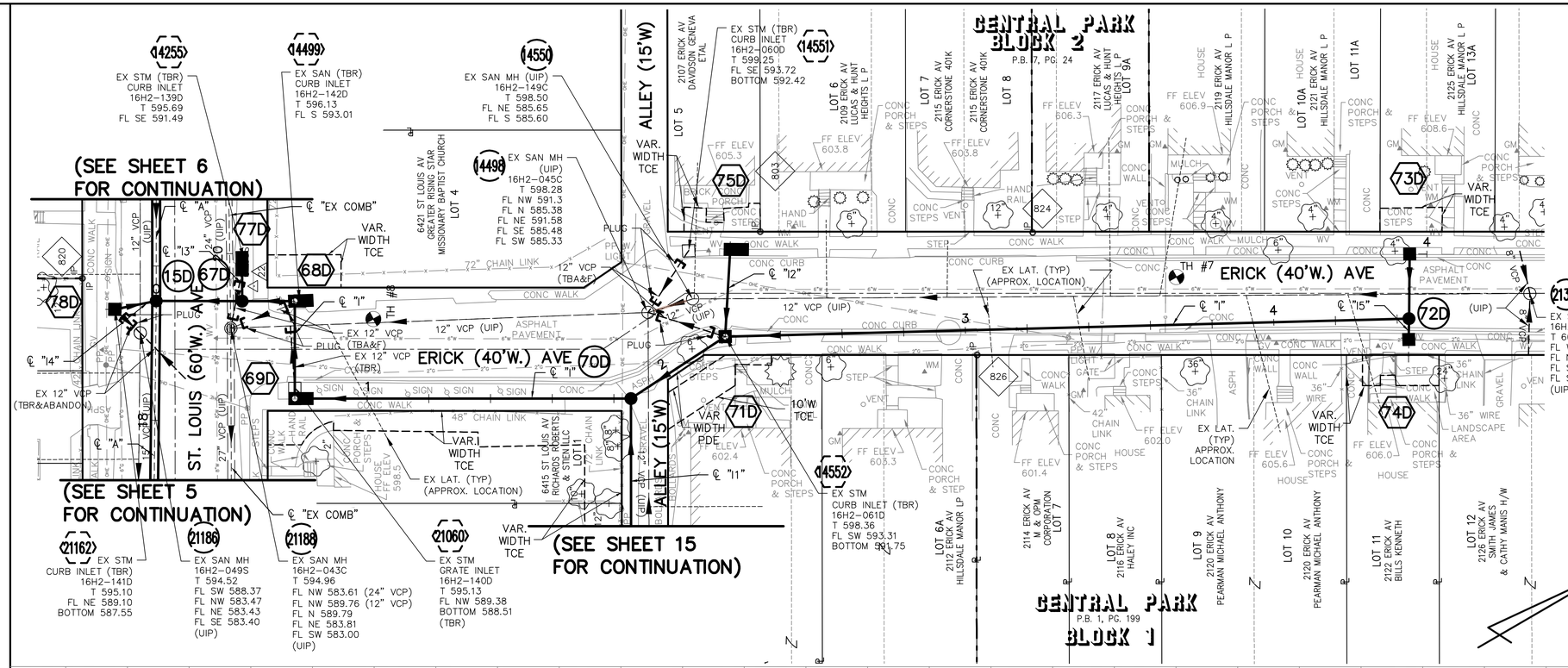
Designed S.G.H.
Drawn K.P.
Checked J.F.M.
Date MARCH, 2020
Sheet No 13 of 29

March 2, 2020

BASE MAP: 16–H–2

11797–[P12–P28]

Path: T:\Working\18102 – MSD – Harlem Baden Package 5\Drawings\
Plotted on: 3/02/20 @ 02:18:28PM by kpolovina



POINT TABLE				
CONTROL POINT #	MSD ID #	NORTHING	EASTING	DESCRIPTION
22	–	1038630.51	880619.07	CONTROL POINT (CROSS)
803	–	1039575.75	879358.97	IRON PIPE
820	–	1038583.04	880589.70	IRON PIPE
824	–	1038859.35	880726.87	IRON PIPE
826	–	1038824.27	880752.82	IRON PIPE

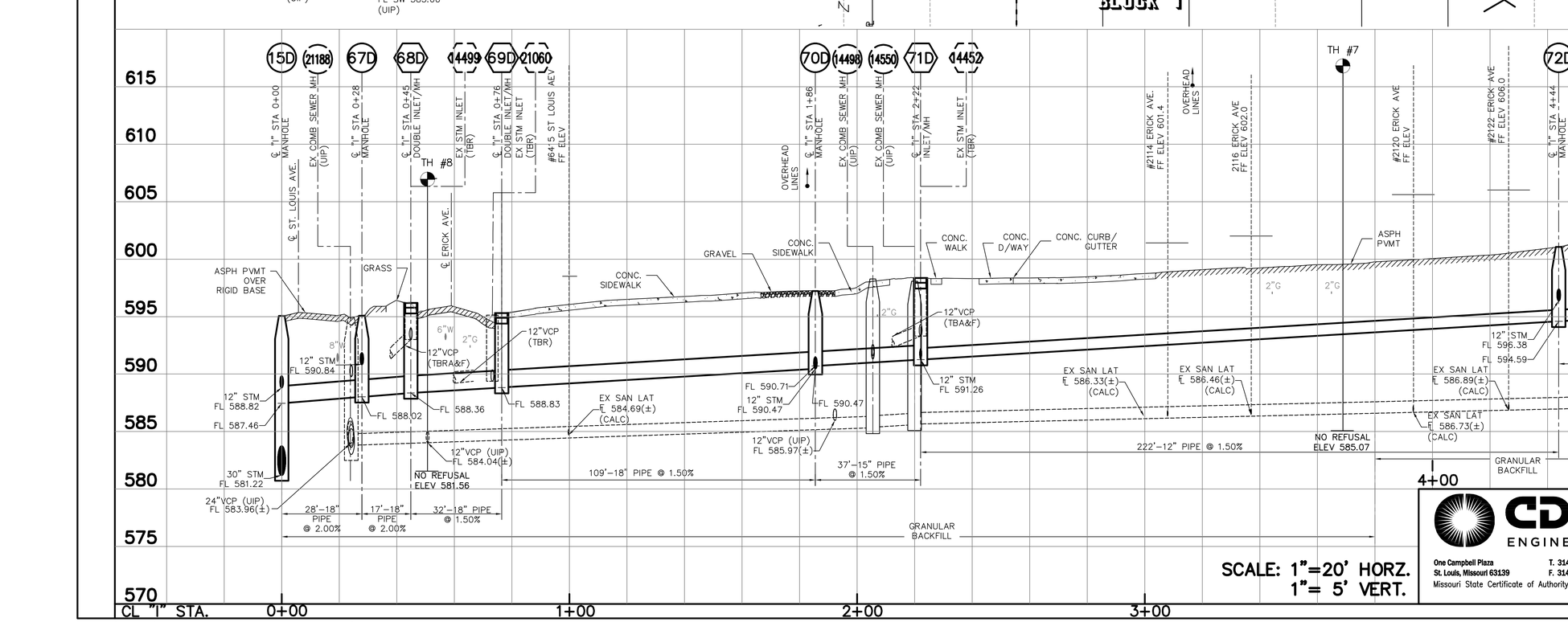
EXISTING STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
14255	14255	16H2–139D	1038629.64	880612.52	EX STM INLET (TBR)
14498	14498	16H2–045C	1038737.82	880688.77	EX COMB SEWER MH (UIP)
14499	14499	16H2–142D	1038641.03	880630.49	EX STM INLET (TBR)
14550	14550	16H2–149C	1038752.58	880691.99	EX SAN MH (UIP)
14551	14551	16H2–060D	1038759.08	880677.65	EX INLET (TBA)
14552	14552	16H2–061D	1038755.85	880707.79	EX STM INLET (TBR)
21060	21060	16H2–140D	1038625.79	880654.44	EX STM INLET (TBR)
21162	21162	16H2–141D	1038587.30	880603.58	EX STM INLET (TBR)
21186	21186	16H2–049S	1038590.84	880614.26	EX SAN MH (UIP)
21188	21188	16H2–043C	1038617.20	880627.26	EX COMB SEWER MH (UIP)
21316	21316	16H2–148CA	1038990.50	880822.73	EX SAN MH (UIP)

NEW STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
–	15D	–	1038600.41	880607.75	MH
–	67D	–	1038624.70	880621.40	MH
–	68D	–	1038639.58	880629.68	DOUBLE INLET/MH
–	69D	–	1038624.17	880657.28	DOUBLE INLET/MH
–	70D	–	1038719.35	880710.41	MH
–	71D	–	1038755.85	880707.79	INLET/MH
–	72D	–	1038952.95	880811.13	MH
–	73D	–	1038962.67	880792.57	INLET
–	74D	–	1038948.92	880816.60	INLET
–	75D	–	1038771.03	880683.84	DOUBLE INLET
–	77D	–	1038629.64	880612.52	DOUBLE INLET
–	78D	–	1038587.30	880603.58	INLET

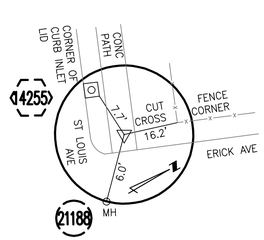
NOTES:

1. SEE SHEET 5 FOR CENTERLINE "A" PROFILE.
2. SEE SHEET 15 FOR CENTERLINE "I1", "I2", "I3", & "I4" PROFILES.
3. SEE SHEET 23 FOR CENTERLINE "I5" PROFILE.
4. HOUSE LATERAL LOCATIONS ARE SHOWN AT APPROXIMATE LOCATIONS.
5. ALL THE PIPES THAT ARE CALLED TBA&F SHALL BE PLUGED TO THE CLOSEST DOWNSTREAM STRUCTURE AND FILLED.

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.



SCALE: 1"=20' HORZ.
1"= 5' VERT.



REFERENCE TIE
CONTROL POINT #22
ELEV 596.09

REV.	DATE	DESCRIPTION	BY

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM–BADEN RELIEF PHASE IV (HEBERT) (DARVER TO 69TH) 11797–015.1

VILLAGE OF HILLSDALE, MISSOURI

CDG ENGINEERS
One Campbell Plaza
St. Louis, Missouri 63139
T. 314 781 7770
F. 314 781 9075
Missouri State Certificate of Authority # 1271

Engineer Seal

PRELIMINARY

STEPHEN G. HILDERBRAND, P.E.
PROFESSIONAL ENGINEER
P.E. No. E–25381
Date:

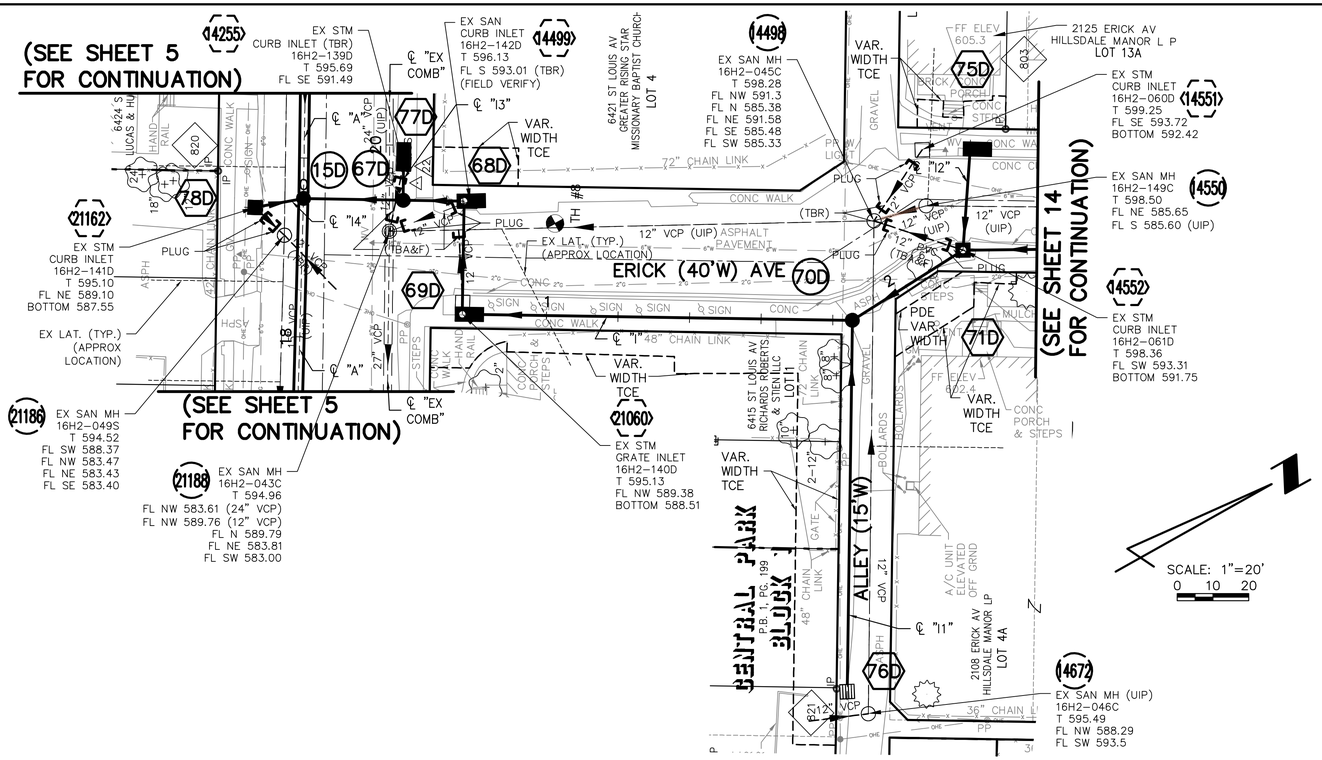
Designed S.G.H.
Drawn K.P.
Checked J.F.M.

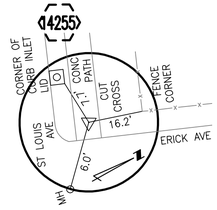
Date MARCH, 2020
Sheet No 14 of 29

Path: T:\Working\18102 – MSD – Harlem Baden Package 5\Drawings\
Plotted on: 3/02/20 @ 02:19:14PM by kpolovina

March 2, 2020

BASE MAP: 16–H–2





REFERENCE TIE
CONTROL POINT #22
ELEV 596.09

POINT TABLE				
CONTROL POINT #	MSD ID #	NORTHING	EASTING	DESCRIPTION
22	–	1038630.51	880619.07	CONTROL POINT (CROSS)
803	–	1039575.75	879358.97	IRON PIPE
820	–	1038583.04	880589.70	IRON PIPE
821	–	1038666.68	880799.01	IRON PIPE

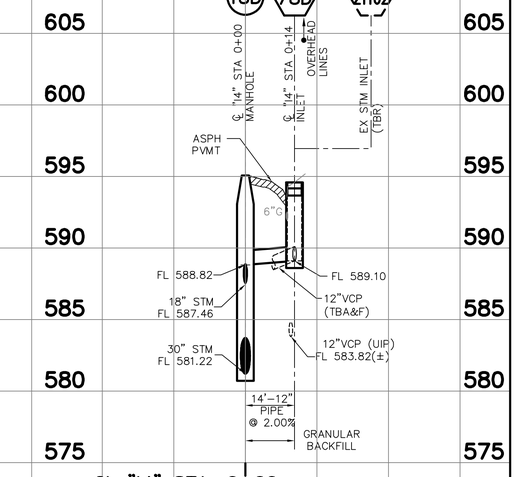
EXISTING STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
14255	14255	16H2-139D	1038629.64	880612.52	EX STM INLET (TBR)
14498	14498	16H2-045C	1038737.82	880688.77	EX COMB SEWER MH (UIP)
14499	14499	16H2-142D	1038641.03	880630.49	EX COMB SEWER INLET (TBR)
14550	14550	16H2-149C	1038752.58	880691.99	EX COMB SEWER MH (UIP)
14551	14551	16H2-060D	1038759.08	880677.65	EX STM INLET (TBA)
14552	14552	16H2-061D	1038755.85	881130.68	EX STM INLET (TBR)
14672	14672	16H2-046C	1038671.16	880809.35	EX SAN MH (UIP)
21060	21060	16H2-140D	1038625.79	880707.79	EX STM INLET (TBR)
21162	21162	16H2-141D	1038587.30	880603.58	EX STM INLET (TBR)
21186	21186	16H2-049S	1038358.43	881130.68	EX COMB SEWER MH (UIP)
21188	21188	16H2-043C	1038617.20	880627.26	EX COMB SEWER MH (UIP)

NEW STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
–	15D	–	1038600.41	880607.75	MH
–	67D	–	1038624.70	880621.40	MH
–	68D	–	1038639.58	880629.68	DOUBLE INLET/MH
–	69D	–	1038624.17	880657.28	DOUBLE INLET/MH
–	70D	–	1038719.35	880710.41	MH
–	71D	–	1038755.85	880707.79	INLET/MH
–	75D	–	1038771.03	880683.84	DOUBLE INLET
–	76D	–	1038668.89	880801.11	2GI
–	77D	–	1038629.64	880612.52	DOUBLE INLET
–	78D	–	1038587.30	880603.58	INLET

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

NOTES:

1. SEE SHEET 5 FOR CENTERLINE "A" PROFILE.
2. SEE SHEET 14 FOR CENTERLINE "I" PROFILE
3. HOUSE LATERALS ARE SHOWN AT APPROXIMATE LOCATION.
4. ALL THE PIPES THAT ARE CALLED TBA&F SHALL BE PLUGED TO THE CLOSEST DOWNSTREAM STRUCTURE AND FILLED.



REV.	DATE	DESCRIPTION	BY

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM–BADEN RELIEF PHASE IV (HEBERT) (DARVER TO 69TH) 11797–015.1 VILLAGE OF HILLSDALE, MISSOURI

SCALE: 1"=20' HORZ.
1"= 5' VERT.

CDG ENGINEERS
One Campbell Plaza
St. Louis, Missouri 63139
T. 314 781 7770
F. 314 781 9075
Missouri State Certificate of Authority # 1271

Engineer Seal

PRELIMINARY

STEPHEN G. HILDERBRAND, P.E.
PROFESSIONAL ENGINEER
P.E. No. E-25381
Date:

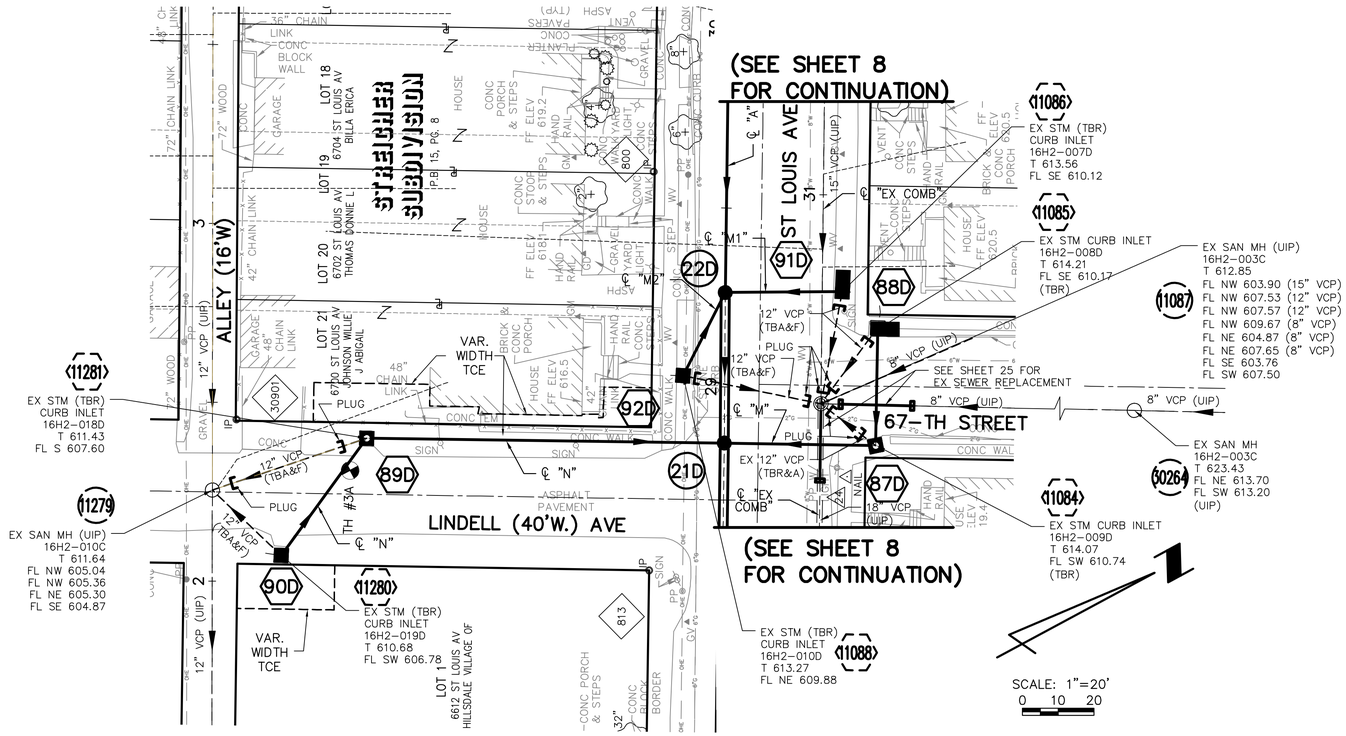
Designed S.G.H.
Drawn K.P.
Checked J.F.M.
Date MARCH, 2020
Sheet No 15 of 29

March 2, 2020

BASE MAP: 16–H–2

11797–[P14–P28]

Path: T:\Working\18102 – MSD – Harlem Baden Package 5\Drawings\
Plotted on: 3/02/20 @ 02:20:30PM by kpolovina



POINT TABLE				
CONTROL POINT #	MSD ID #	NORTHING	EASTING	DESCRIPTION
24	–	1039131.47	878717.04	CONTROL POINT (NAIL)
800	–	1039124.22	879616.35	IP
813	–	1039070.31	879713.87	IP
30901	–	1038988.83	879622.11	IP

EXISTING STRUCTURE TABLE

PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
11084	11084	16H2-009D	1039142.59	879713.17	EX INLET (TBR)
11085	11085	16H2-008D	1039158.66	879684.41	EX INLET (TBR)
11086	11086	16H2-004D	1039154.78	879670.86	EX INLET (TBR)
11087	11087	16H2-003C	1039134.65	879695.63	EX MH (UIP)
11088	11088	16H2-010D	1039104.47	879670.46	EX INLET (TBR)
11279	11279	16H2-010C	1038973.48	879636.32	EX MH (UIP)
11280	11280	16H2-019D	1038981.79	879661.49	EX INLET (TBR)
11281	11281	16H2-018D	1039018.34	879643.99	EX INLET (TBR)
30264	30264	16H2-003C	1039339.92	879811.98	EX MH (UIP)

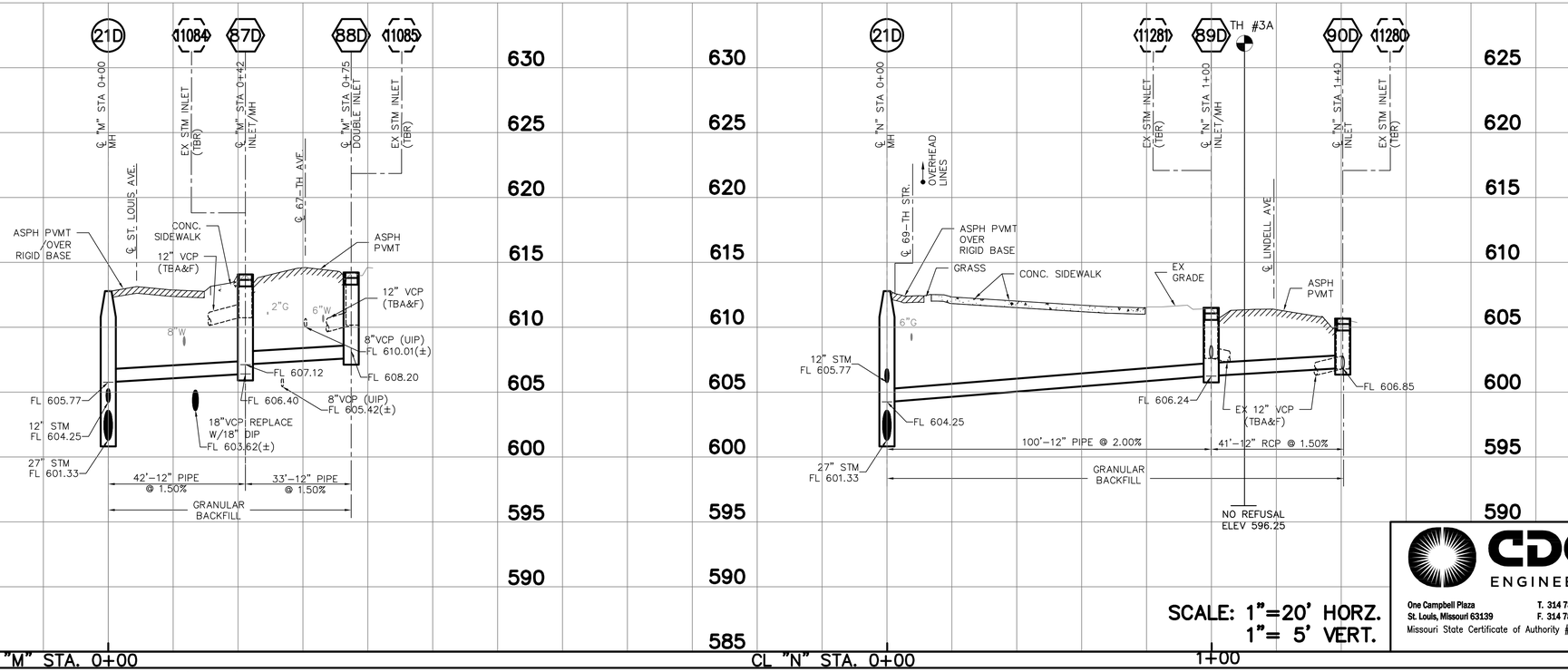
NEW STRUCTURE TABLE

PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
–	21D	–	1039105.69	879692.50	MH
–	22D	–	1039125.87	879655.57	MH
–	87D	–	1039142.59	879713.17	INLET/MH
–	88D	–	1039158.55	879684.79	DOUBLE INLET
–	89D	–	1039018.50	879643.69	INLET/MH
–	90D	–	1038981.79	879661.49	INLET
–	91D	–	1039154.78	879670.86	DOUBLE INLET
–	92D	–	1039104.47	879670.46	INLET

NOTES:

1. SEE SHEET 25 FOR CENTERLINE "M1" & "M2" PROFILES.
2. HOUSE LATERALS ARE SHOWING AT APPROXIMATE LOCATION.
3. ALL THE PIPES THAT ARE CALLED TBA&F SHALL BE PLUGED TO THE CLOSEST DOWNSTREAM STRUCTURE AND FILLED.

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.



SCALE: 1"=20' HORZ.
1"= 5' VERT.

REV.	DATE	DESCRIPTION	BY

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM–BADEN RELIEF PHASE IV (HEBERT) (DARVER TO 69TH) 11797–015.1

VILLAGE OF HILLSDALE, MISSOURI

CDG ENGINEERS
One Campbell Plaza
St. Louis, Missouri 63139
T. 314 781 7770
F. 314 781 9075
Missouri State Certificate of Authority # 1271

Engineer Seal

PRELIMINARY

STEPHEN G. HILDERBRAND, P.E.
PROFESSIONAL ENGINEER
P.E. No. E-25381
Date:

Designed S.G.H.
Drawn K.P.
Checked J.F.M.

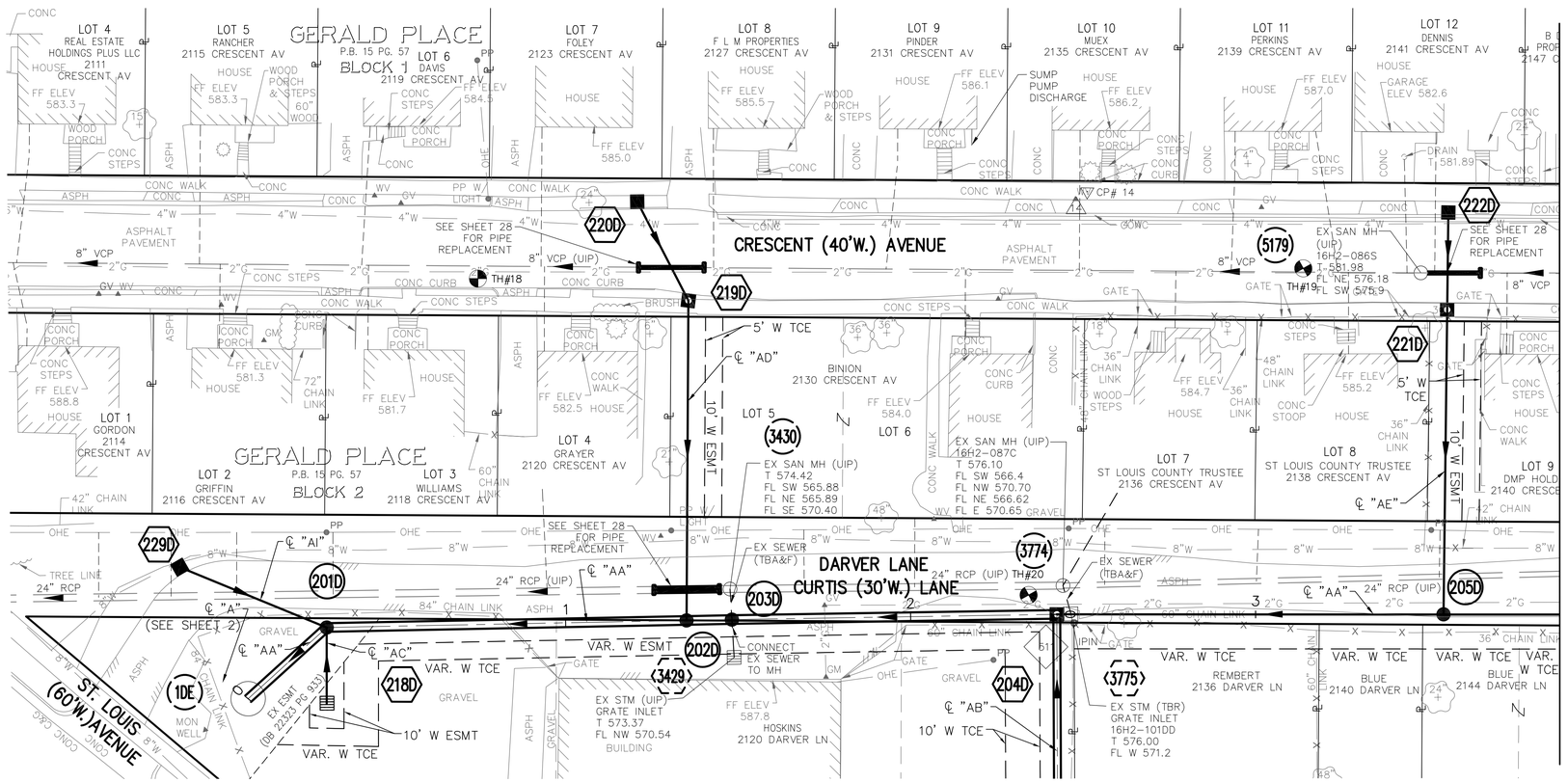
Date MARCH, 2020
Sheet No 16 of 29

March 2, 2020

BASE MAP: 16–H–2

11797–[P15–P28]

Path: T:\Working\18102 – MSD – Harlem Baden Package 5\Drawings\
Plotted on: 3/02/20 @ 02:21:48PM by kpolovina



SCALE: 1"=20'
0 10 20

NOTE:
SEE SHEET 27 FOR ℄ "AC", "AD", "AE", & "AI" PROFILES

POINT TABLE

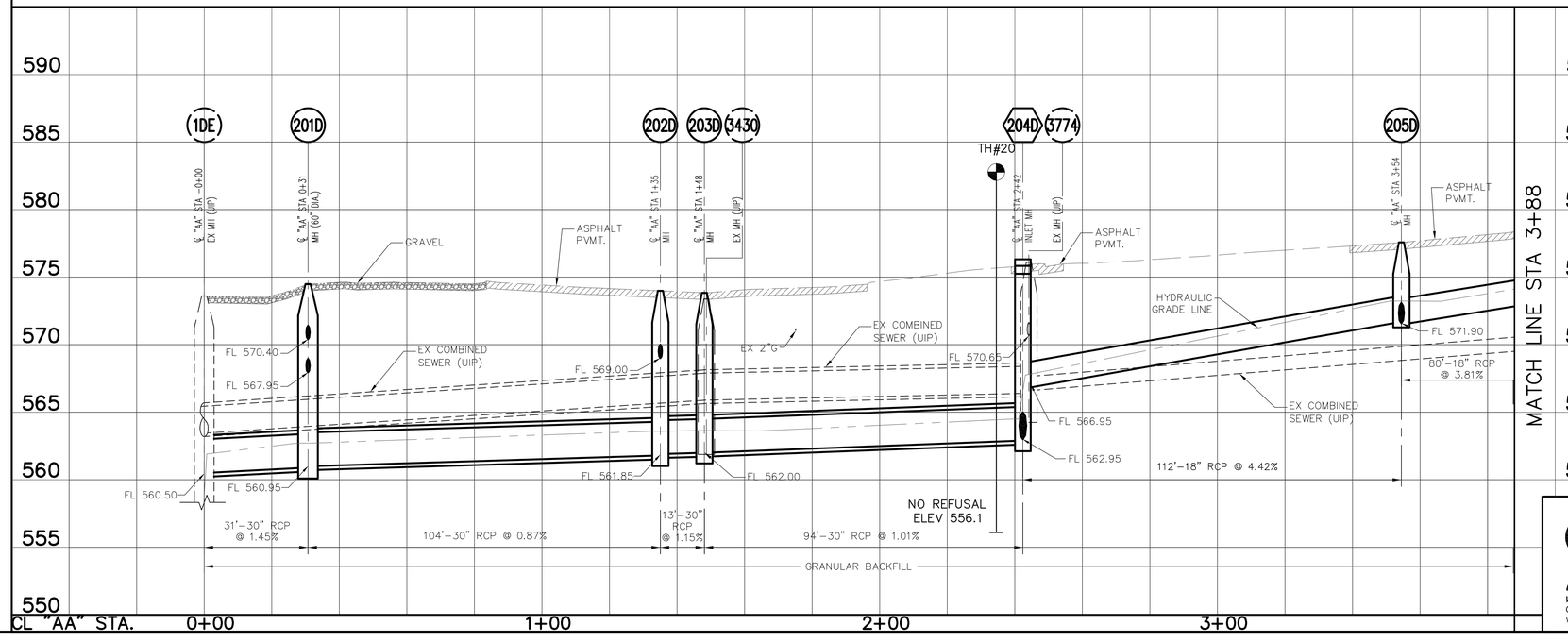
CONTROL POINT #	MSD ID #	NORTHING	EASTING	DESCRIPTION
14	–	1038299.65	882154.78	CONTROL POINT
511	–	1038235.97	882262.47	IRON PIN
827	–	1037958.41	882090.67	CROSS
848	–	1037943.17	882125.44	CROSS
51942	–	1037955.01	882071.27	CONC. MONUMENT

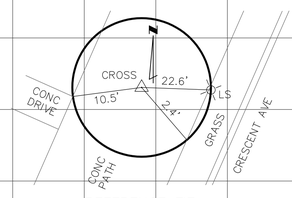
EXISTING STRUCTURE TABLE

PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
3429	3429	–	1038144.87	882223.70	EX STM INLET (UIP)
3430	3430	–	1038153.39	882205.74	EX SAN MH (UIP)
3774	3774	16H2–087C	1038238.37	882251.43	EX SAN MH (UIP)
3775	3775	16H2–101DD	1038236.45	882259.74	EX STM GRATE INLET (TBR)
5179	5179	16H2–086S	1038372.98	882222.08	EX SAN MH (UIP)
–	1DE	–	1038015.71	882166.24	EX SPECIAL MH PHASE 4

NEW STRUCTURE TABLE

PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
–	201D	–	1038045.61	882159.13	MANHOLE
–	202D	–	1038137.95	882207.65	MANHOLE
–	203D	–	1038149.58	882213.77	MANHOLE
–	204D	–	1038232.78	882257.86	INLET MH
–	205D	–	1038330.94	882311.97	MANHOLE
–	218D	–	1038035.10	882178.41	GRATE INLET
–	219D	–	1038183.17	882126.68	INLET MH
–	220D	–	1038184.00	882094.38	INLET
–	221D	–	1038374.51	882235.09	INLET MH
–	222D	–	1038388.40	882210.58	INLET
	229D	–	1038016.73	882123.25	INLET





REFERENCE TIE
CONTROL POINT #14
ELEV 580.92

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

SCALE: 1"=20' HORZ.
1"= 5' VERTICAL

REV.	DATE	DESCRIPTION	BY

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM–BADEN RELIEF PHASE IV (HEBERT) (DARVER TO 69TH)
11797–015.1
VILLAGE OF HILLSDALE, MISSOURI

5220 OAKLAND AVENUE
St. Louis, MO 63110
314.863.5570

CIVIL DESIGN, INC.
WBE / DBE
Civil Engineering #2002006804
www.civildesigninc.com

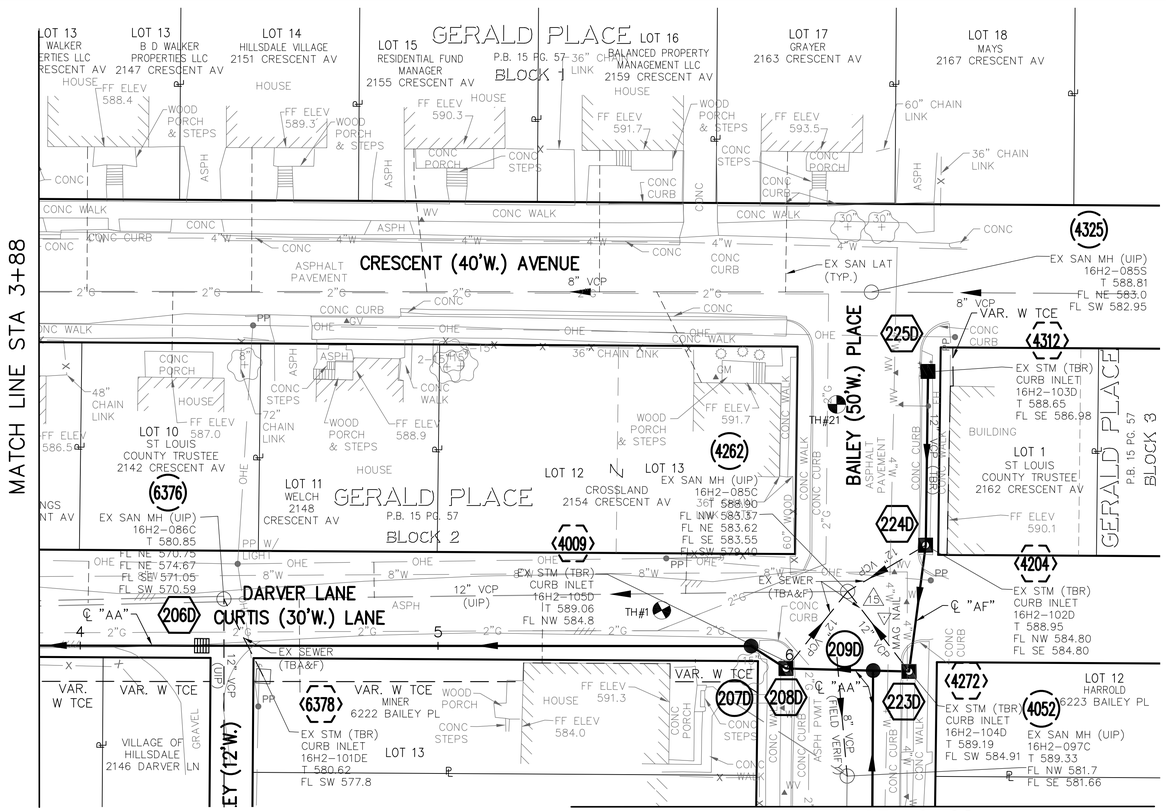
Engineer Seal
STATE OF MISSOURI
JEREMY M. LINLEY
NUMBER PE-2012018099
3/1/20
PROFESSIONAL ENGINEER

Jeremy M. Linley, P.E.
PROFESSIONAL ENGINEER
P.E. No. 2012018099
Date: 03/02/2020

Designed J.D.A.
Drawn J.D.A.
Checked J.M.L.

Date MARCH, 2020
Sheet No 17 of 29

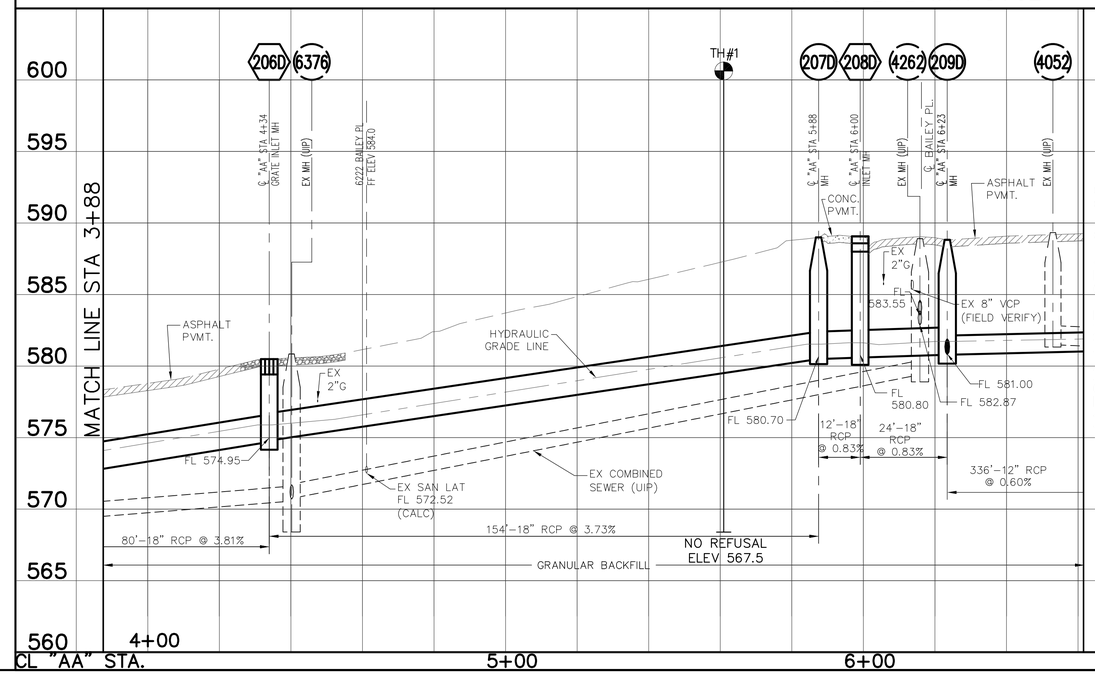
March 2, 2020 BASE MAP: 16–H–2 11797–[P17–P29]

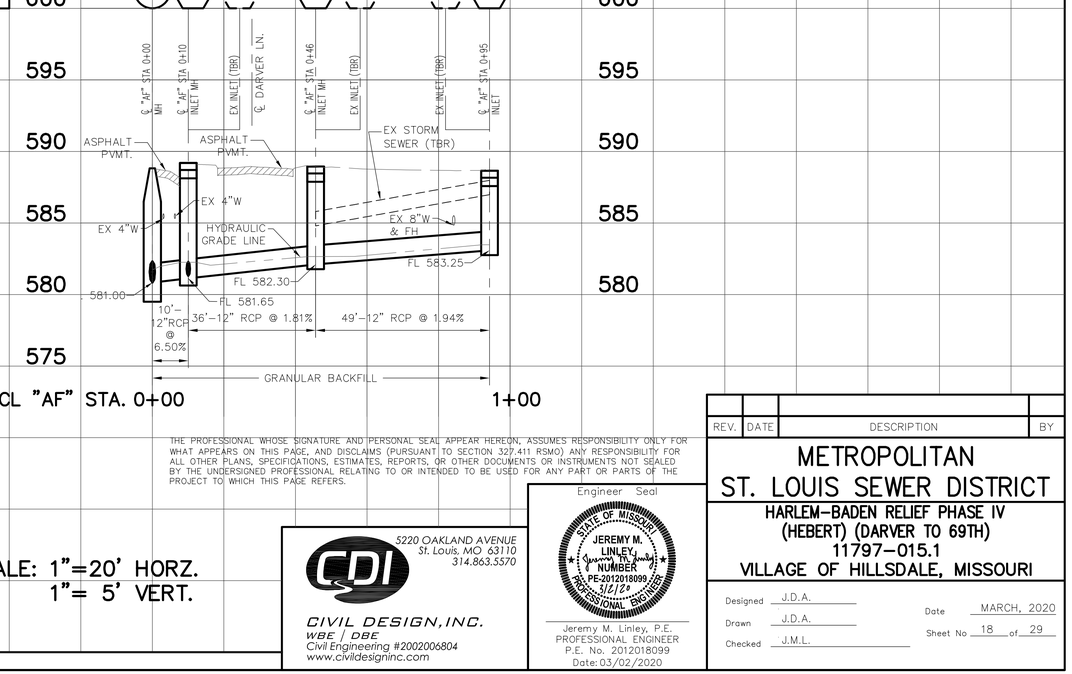


POINT TABLE				
CONTROL POINT #	MSD ID #	NORTHING	EASTING	DESCRIPTION
15	–	1038571.54	882435.39	CONTROL POINT (MAG NAIL)

EXISTING STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
4009	4009	16H2–105D	1038540.52	882434.72	EX STM INLET (TBR)
4052	4052	16H2–097C	1038541.00	882469.30	EX SAN MH (UIP)
4204	4204	16H2–102D	1038591.34	882423.35	EX STM INLET (TBR)
4262	4262	16H2–085C	1038566.02	882424.13	EX SAN MH (UIP)
4272	4272	16H2–104D	1038570.26	882452.03	EX STM INLET (TBR)
4312	4312	16H2–103C	1038615.35	882381.13	EX STM INLET (TBR)
4325	4325	16H2–085S	1038612.20	882354.05	EX SAN MH (UIP)
6376	6376	16H2–086C	1038412.30	882341.91	EX SAN MH (UIP)
6378	6378	16H2–101DE	1038411.52	882366.15	EX STM INLET (TBR)

NEW STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
–	206D	–	1038400.58	882350.36	GRATE INLET
–	207D	–	1038535.01	882424.51	MANHOLE
–	208D	–	1038540.52	882434.72	INLET MH
–	209D	–	1038561.56	882446.97	MANHOLE
–	223D	–	1038570.26	882452.03	INLET MH
–	224D	–	1038591.38	882423.35	INLET MH
–	225D	–	1038615.35	882381.13	INLET





SCALE: 1"=20' HORZ.
1"= 5' VERT.

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

CDI
5220 OAKLAND AVENUE
St. Louis, MO 63110
314.863.5570
CIVIL DESIGN, INC.
WBE / DBE
Civil Engineering #2002006804
www.civildesigninc.com

Engineer Seal
STATE OF MISSOURI
JEREMY M. LINLEY
NUMBER PE-2012018099
3/6/20
PROFESSIONAL ENGINEER
Jeremy M. Linley, P.E.
PROFESSIONAL ENGINEER
P.E. No. 2012018099
Date: 03/02/2020

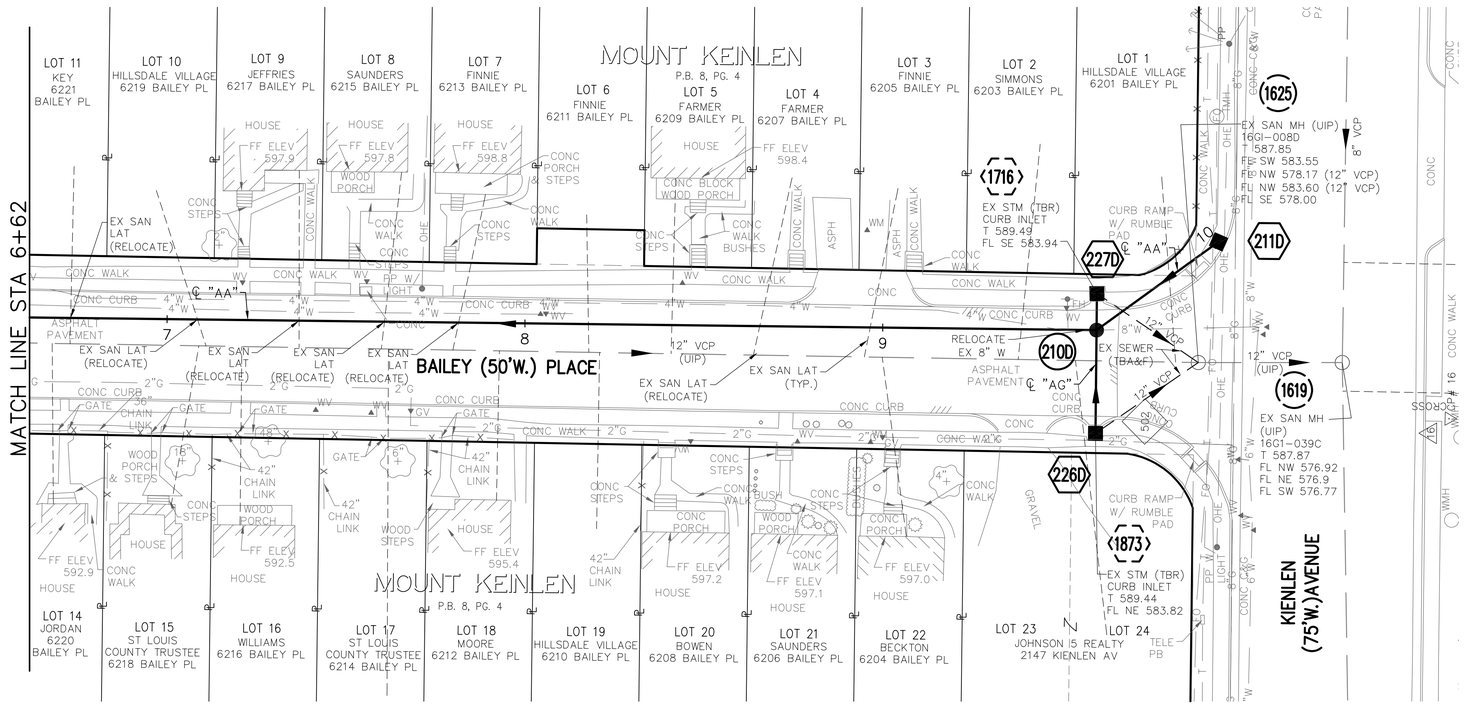
REV.	DATE	DESCRIPTION	BY

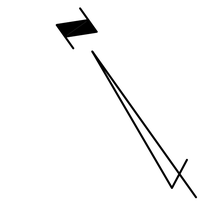
METROPOLITAN ST. LOUIS SEWER DISTRICT

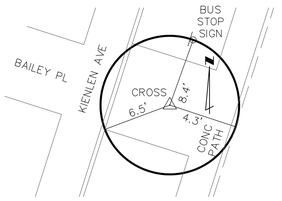
HARLEM–BADEN RELIEF PHASE IV (HEBERT) (DARVER TO 69TH)
11797–015.1
VILLAGE OF HILLSDALE, MISSOURI

Designed J.D.A.
Drawn J.D.A.
Checked J.M.L.
Date MARCH, 2020
Sheet No 18 of 29

March 2, 2020 BASE MAP: 16–H–2 11797–[P18–P29]





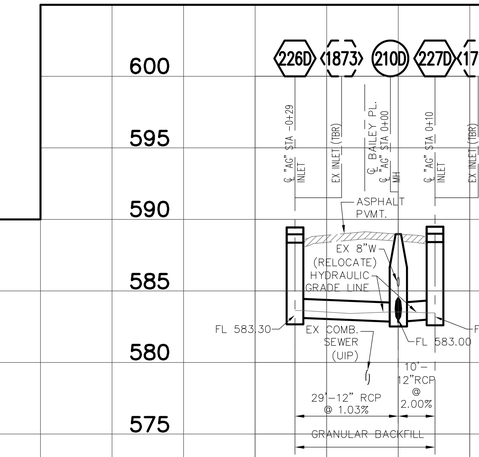


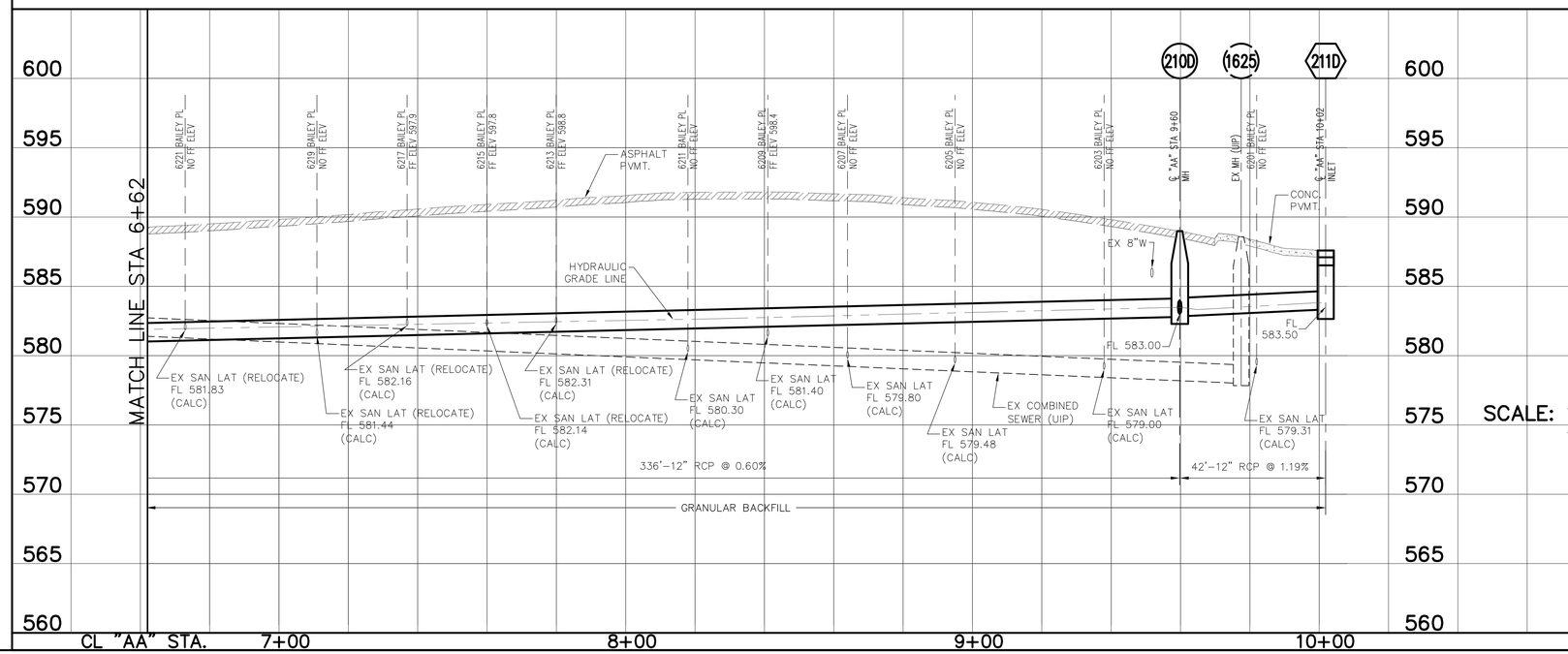
REFERENCE TIE
CONTROL POINT #16
ELEV 588.14

POINT TABLE				
CONTROL POINT #	MSD ID #	NORTHING	EASTING	DESCRIPTION
16	–	1038328.87	882815.38	CONTROL POINT (CROSS)
502	–	1038368.72	882740.30	CROSS

EXISTING STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
1619	1619	16G1–039C	1038356.91	882796.66	EX SAN MH (UIP)
1625	1625	16G1–008D	1038376.11	882761.30	EX SAN MH (UIP)
1716	1716	–	1038406.59	882745.61	EX STM INLET (TBR)
1873	1873	–	1038372.40	882726.59	EX STM INLET (TBR)

NEW STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
–	210D	–	1038397.62	882740.63	MH
–	211D	–	1038403.06	882782.38	INLET
–	226D	–	1038372.40	882726.59	INLET
–	227D	–	1038406.59	882745.61	INLET





SCALE: 1"=20' HORZ.
1"= 5' VERT.

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

REV.	DATE	DESCRIPTION	BY

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM–BADEN RELIEF PHASE IV (HEBERT) (DARVER TO 69TH) 11797–015.1 VILLAGE OF HILLSDALE, MISSOURI

5220 OAKLAND AVENUE
St. Louis, MO 63110
314.863.5570

CIVIL DESIGN, INC.
WBE | DBE
Civil Engineering #2002006804
www.civildesigninc.com

Engineer Seal

STATE OF MISSOURI
JEREMY M. LINLEY
NUMBER PE-2012018099
5/2/20
PROFESSIONAL ENGINEER

Jeremy M. Linley, P.E.
PROFESSIONAL ENGINEER
P.E. No. 2012018099
Date: 03/02/2020

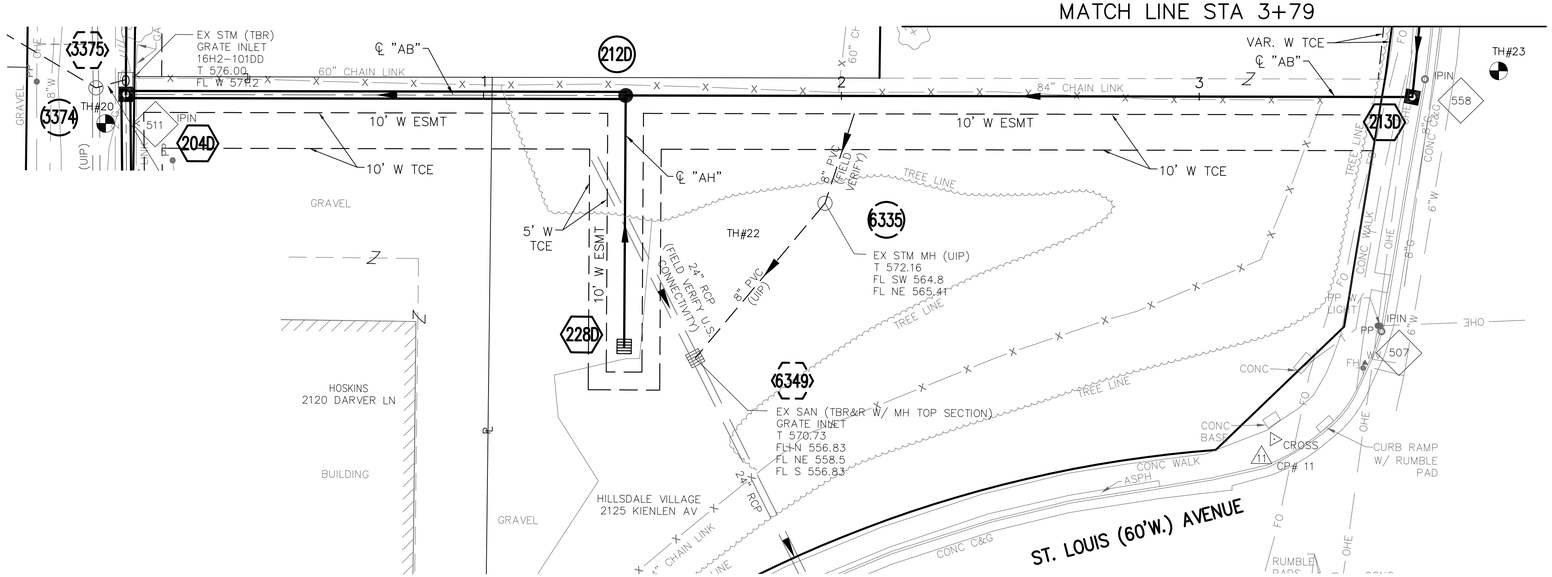
Designed J.D.A.
Drawn J.D.A.
Checked J.M.L.

Date MARCH, 2020
Sheet No 19 of 29

March 2, 2020

BASE MAP: 16–G–1

11797–[P19–P29]

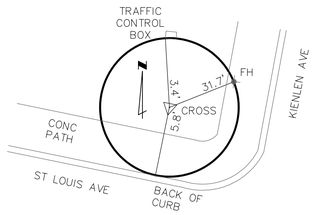


POINT TABLE				
CONTROL POINT #	MSD ID #	NORTHING	EASTING	DESCRIPTION
11	–	1037994.96	882493.97	CONTROL POINT (CROSS)
507	–	1038007.16	882534.67	IRON PIN
508	–	1038063.31	882579.00	IRON PIN

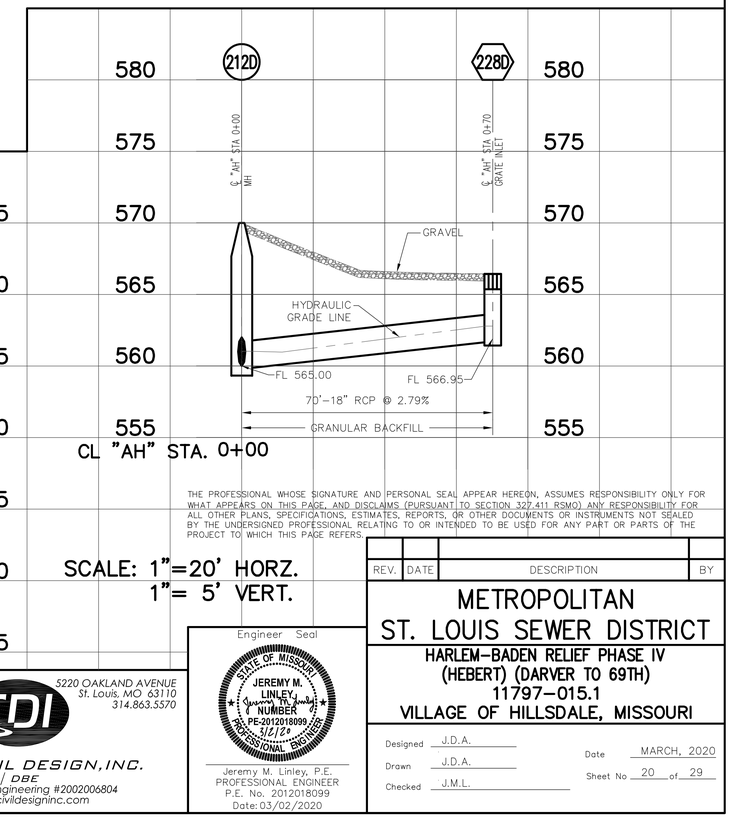
EXISTING STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
6335	6335	–	1038112.83	882415.11	EX STM MH (UIP)
6349	6349	–	1038092.07	882362.55	EX SAN GRATE INLET (TBR&R)

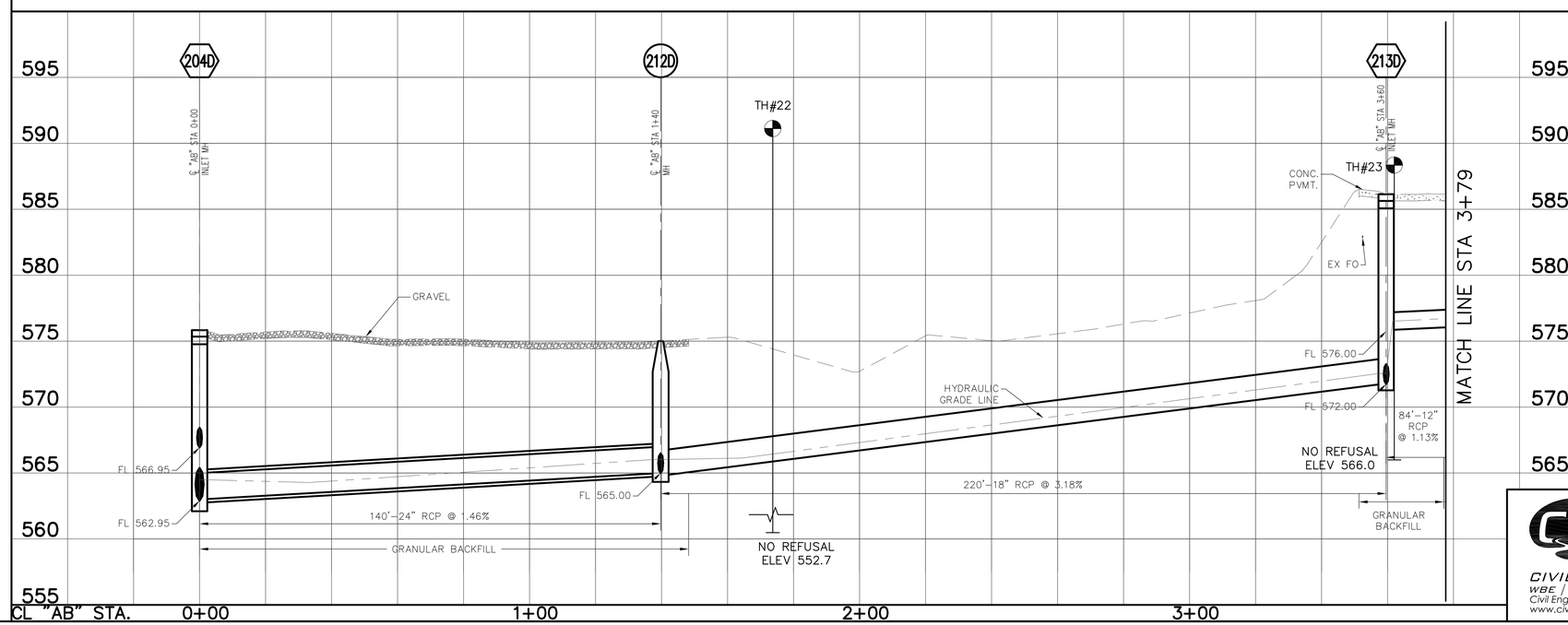
NEW STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
–	204D	–	1038232.78	882257.86	INLET MH
–	212D	–	1038165.87	882380.53	MANHOLE
–	213D	–	1038060.61	882573.51	INLET MH
–	228D	–	1038104.42	882346.67	GRATE INLET

SCALE: 1"=20'
0 10 20



REFERENCE TIE
CONTROL POINT #11
ELEV 586.44





THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

SCALE: 1"=20' HORZ.
1"= 5' VERT.

REV.	DATE	DESCRIPTION	BY

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM-BADEN RELIEF PHASE IV (HEBERT) (DARVER TO 69TH) 11797-015.1

VILLAGE OF HILLSDALE, MISSOURI

5220 OAKLAND AVENUE
St. Louis, MO 63110
314.863.5570

CIVIL DESIGN, INC.
WBE / DBE
Civil Engineering #2002006804
www.civildesigninc.com

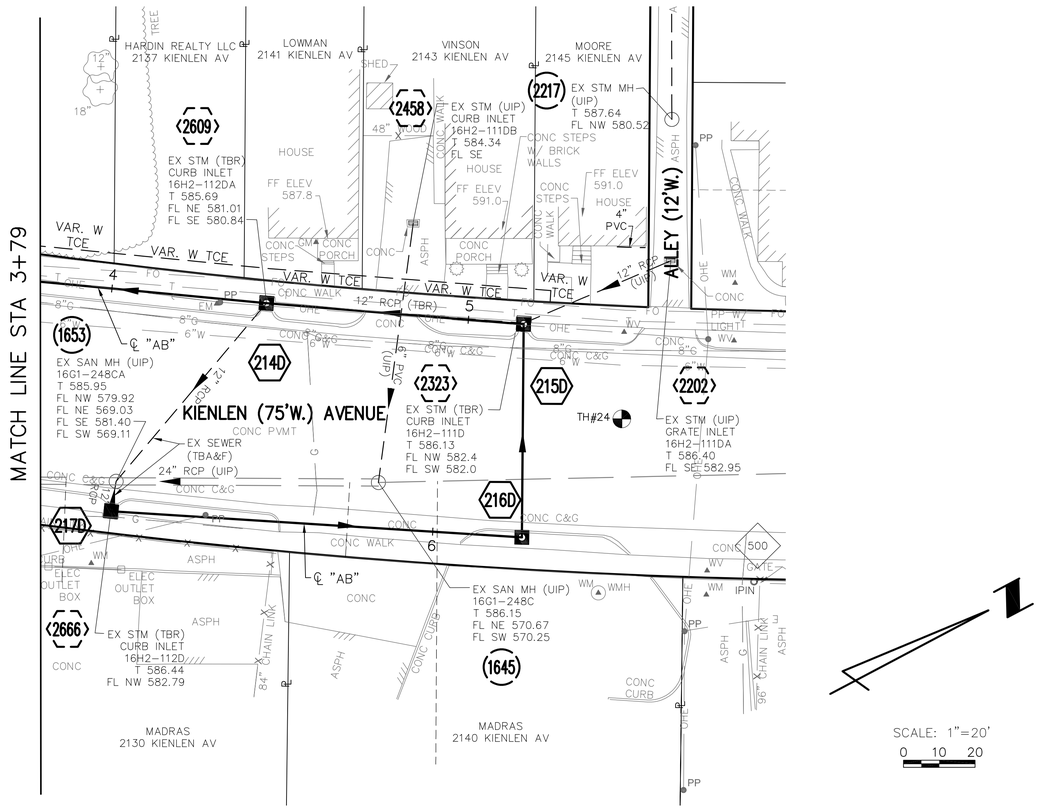
Engineer Seal
STATE OF MISSOURI
JEREMY M. LINLEY
NUMBER PE-2012018099
5/1/12
PROFESSIONAL ENGINEER

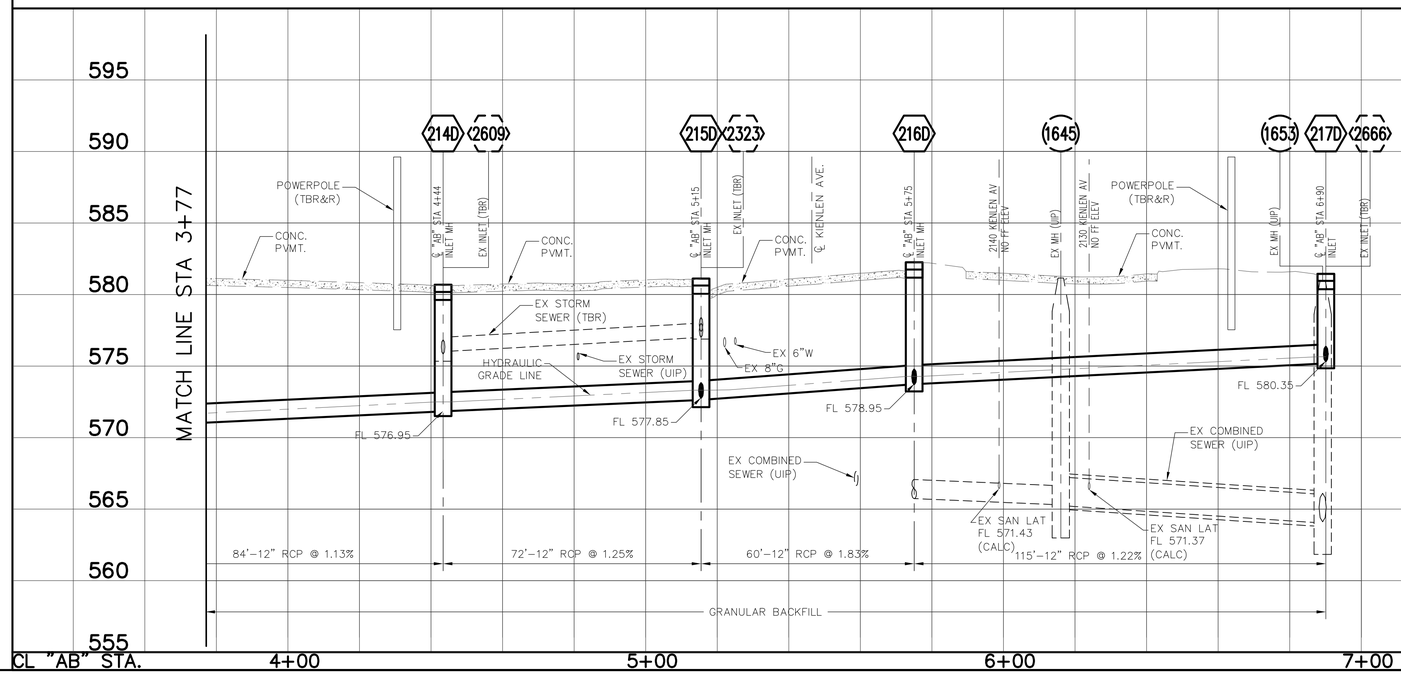
Jeremy M. Linley, P.E.
PROFESSIONAL ENGINEER
P.E. No. 2012018099
Date: 03/02/2020

Designed J.D.A.
Drawn J.D.A.
Checked J.M.L.

Date MARCH, 2020
Sheet No 20 of 29

March 2, 2020 BASE MAP: 16-G-1 11797-[P20-P29]





POINT TABLE					
CONTROL POINT #		MSD ID #	NORTHING	EASTING	DESCRIPTION
500		–	1038211.70	882754.61	IRON PIN
EXISTING STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
1645	1645	16G1-248C	1038133.11	882679.71	EX SAN MH (UIP)
1653	1653	16G1-248CA	1038069.06	882644.06	EX SAN MH (UIP)
2202	2202	16H2-111DA	1038234.61	882664.85	EX STM GRATE INLET (UIP)
2217	2217	–	1038253.89	882630.38	EX STM MH (UIP)
2323	2323	16H2-111D	1038190.15	882660.28	EX STM CURB INLET (TBR)
2458	2458	16H2-111DB	1038176.57	882620.93	EX STM CURB INLET (UIP)
2609	2609	16H2-112DA	1038129.89	882620.70	EX STM CURB INLET (TBR)
2666	2666	16H2-112D	1038063.76	882650.72	EX STM CURB INLET (TBR)
NEW STRUCTURE TABLE					
PT. #	I.D.	MSD ID #	NORTHING	EASTING	DESCRIPTION
–	214D	–	1038129.89	882620.70	INLET MH
–	215D	–	1038189.98	882660.55	INLET MH
–	216D	–	1038160.83	882712.48	INLET MH
–	217D	–	1038063.76	882650.72	INLET

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

REV.	DATE	DESCRIPTION	BY

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM-BADEN RELIEF PHASE IV (HEBERT) (DARVER TO 69TH)

11797-015.1

VILLAGE OF HILLSDALE, MISSOURI

CDI
5220 OAKLAND AVENUE
St. Louis, MO 63110
314.863.5570
CIVIL DESIGN, INC.
WBE / DBE
Civil Engineering #2002006804
www.civildesigninc.com

Engineer Seal

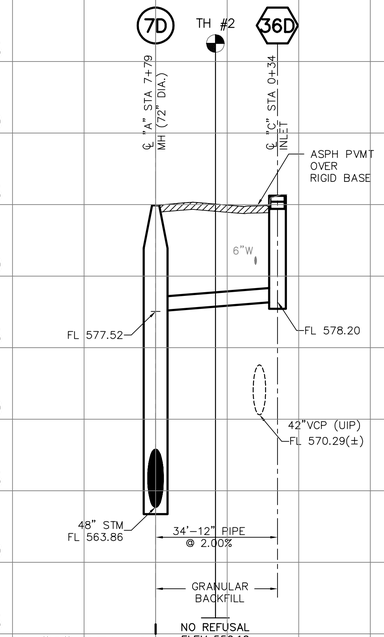
STATE OF MISSOURI
JEREMY M. LINLEY
NUMBER PE-2012018099
PROFESSIONAL ENGINEER
5/1/20

Jeremy M. Linley, P.E.
PROFESSIONAL ENGINEER
P.E. No. 2012018099
Date: 03/02/2020

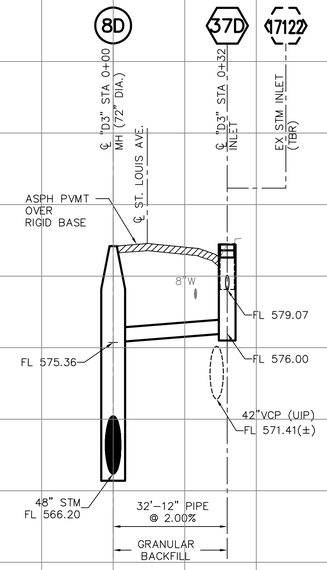
Designed J.D.A.
Drawn J.D.A.
Checked J.M.L.

Date MARCH, 2020

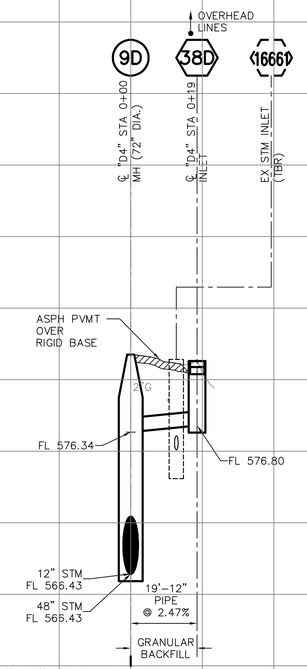
Sheet No 21 of 29



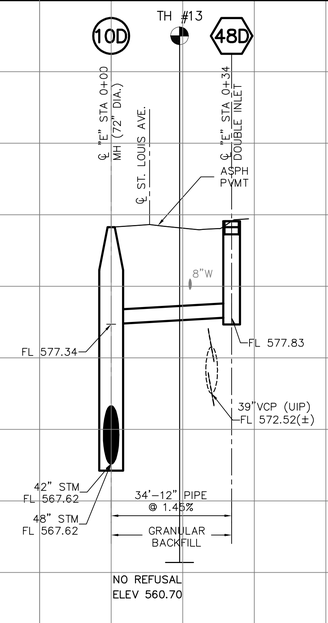
CL "C" STA. 0+00



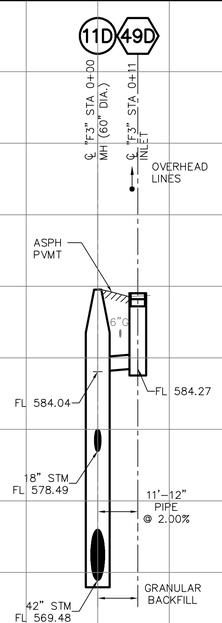
CL "D3" STA. 0+00



CL "D4" STA. 0+00



CL "E" STA. 0+00



CL "F3" STA. 0+00

SCALE: 1"=20' HORZ.
1"= 5' VERT.

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

CDG ENGINEERS
One Campbell Plaza
St. Louis, Missouri 63139
T. 314 781 7770
F. 314 781 9075
Missouri State Certificate of Authority # 1271

Engineer Seal

PRELIMINARY

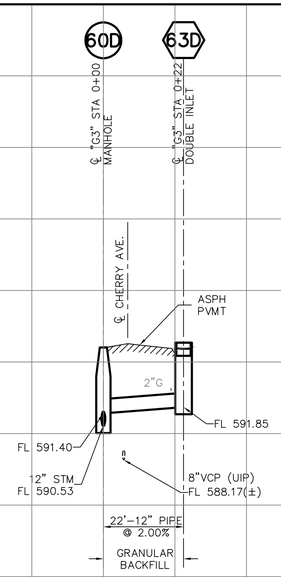
STEPHEN G. HILDERBRAND, P.E.
PROFESSIONAL ENGINEER
P.E. No. E-25381
Date:

REV.	DATE	DESCRIPTION	BY

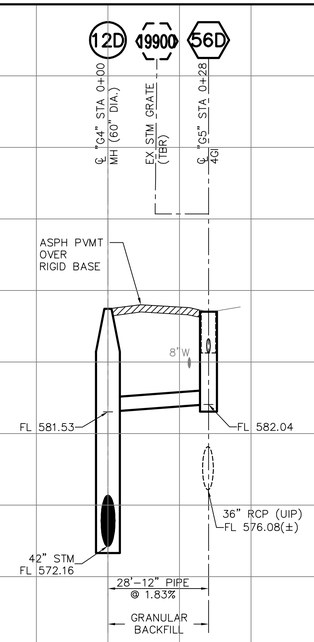
METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM-BADEN RELIEF PHASE IV (HEBERT) (DARVER TO 69TH) 11797-015.1 VILLAGE OF HILLSDALE, MISSOURI

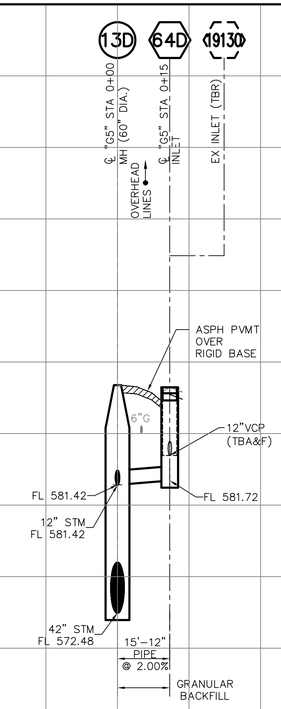
Designed S.G.H.
Drawn K.P.
Checked J.F.M.
Date MARCH, 2020
Sheet No 22 of 29



CL "G3" STA. 0+00

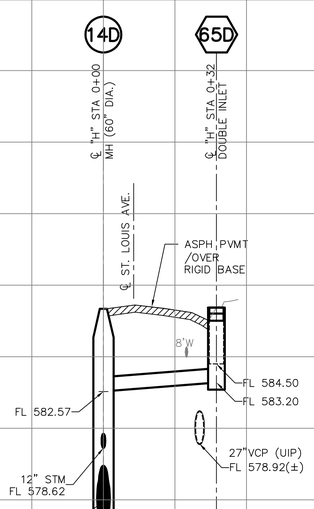


CL "G4" STA. 0+00

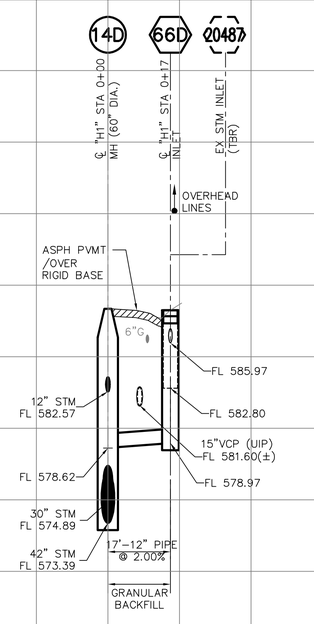


CL "G5" STA. 0+00

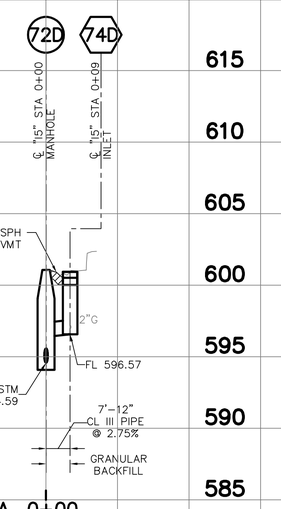
THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.



CL "H" STA. 0+00



CL "H1" STA. 0+00



CL "I5" STA. 0+00

SCALE: 1"=20' HORZ.
1"= 5' VERT.

CDG ENGINEERS
One Campbell Plaza
St. Louis, Missouri 63139
T. 314 781 7770
F. 314 781 9075
Missouri State Certificate of Authority # 1271

Engineer Seal

PRELIMINARY

STEPHEN G. HILDERBRAND, P.E.
PROFESSIONAL ENGINEER
P.E. No. E-25381
Date:

REV.	DATE	DESCRIPTION	BY

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM-BADEN RELIEF PHASE IV
(HEBERT) (DARVER TO 69TH)
11797-015.1
VILLAGE OF HILLSDALE, MISSOURI

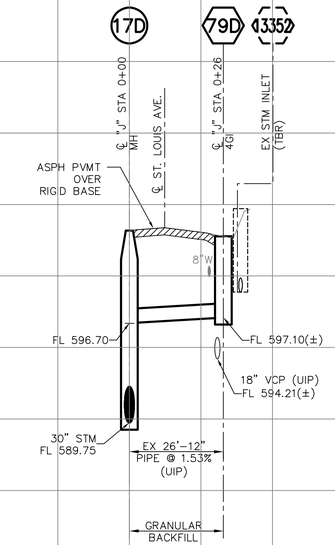
Designed S.G.H.
Drawn K.P.
Checked J.F.M.
Date MARCH, 2020
Sheet No 23 of 29

Path: T:\Working\18102 - MSD - Harlem Baden Package 5\Drawings\
Plotted on: 3/02/20 @ 02:23:39PM by kpolovina

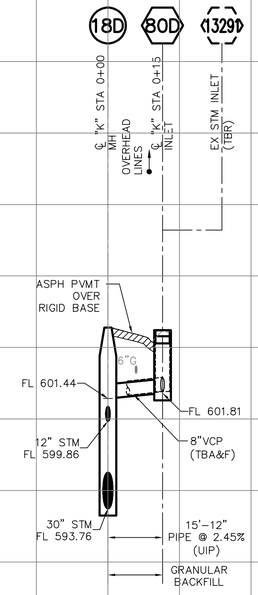
March 2, 2020

BASE MAP: 16-H-2

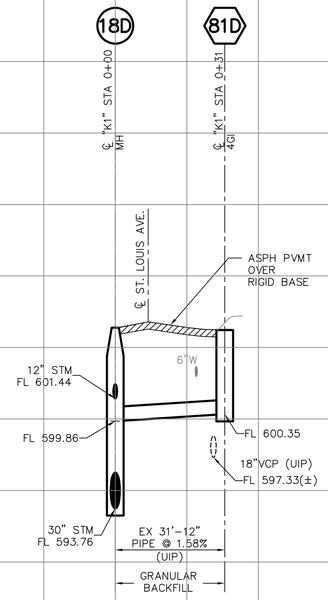
11797-[P22-P28]



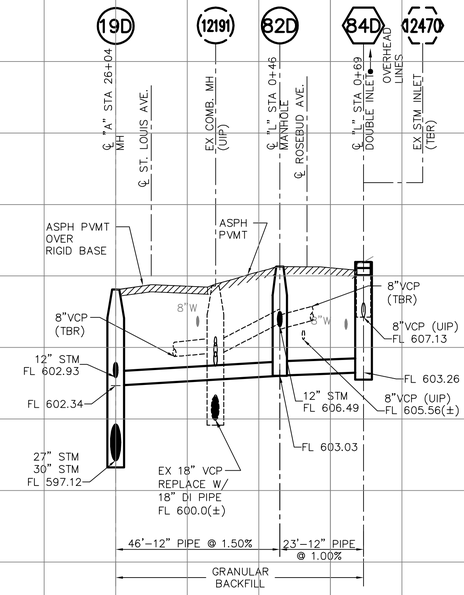
CL "J" STA. 0+00



CL "K" STA. 0+00

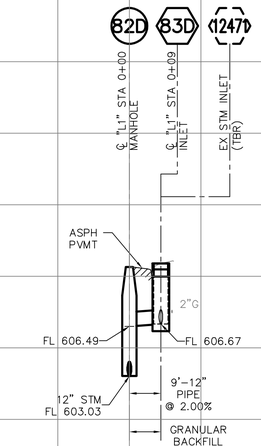


CL "K1" STA. 0+00

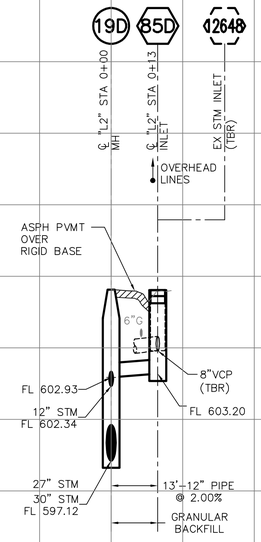


CL "L" STA. 0+00

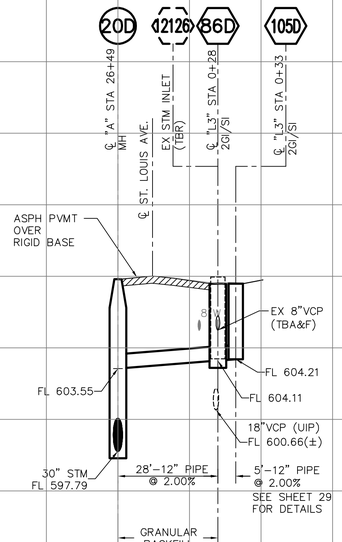
THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.



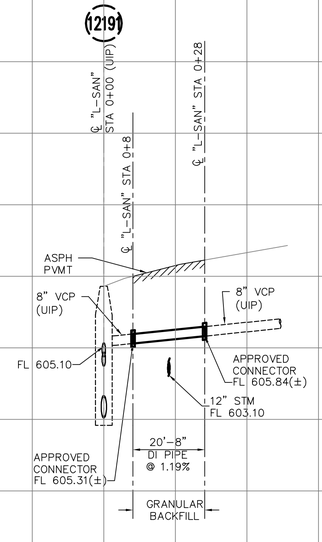
CL "L1" STA. 0+00



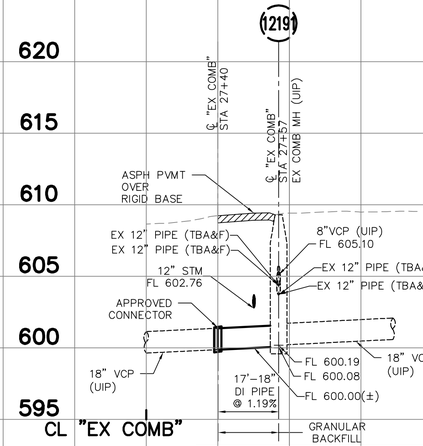
CL "L2" STA. 0+00



CL "L3" STA. 0+00



CL "L-SAN" STA. 0+00



CL "EX COMB" STA. 27+20

SCALE: 1"=20' HORZ.
1"= 5' VERT.

REV.	DATE	DESCRIPTION	BY

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM-BADEN RELIEF PHASE IV
(HEBERT) (DARVER TO 69TH)
11797-015.1
VILLAGE OF HILLSDALE, MISSOURI

CDG ENGINEERS
One Campbell Plaza
St. Louis, Missouri 63139
T. 314 781 7770
F. 314 781 9075
Missouri State Certificate of Authority # 1271

Engineer Seal

PRELIMINARY

STEPHEN G. HILDERBRAND, P.E.
PROFESSIONAL ENGINEER
P.E. No. E-25381
Date:

Designed S.G.H.
Drawn K.P.
Checked J.F.M.

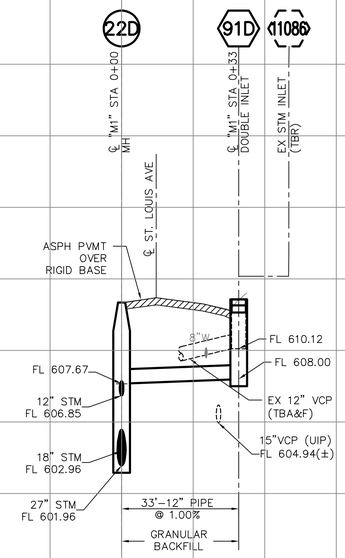
Date MARCH, 2020
Sheet No 24 of 29

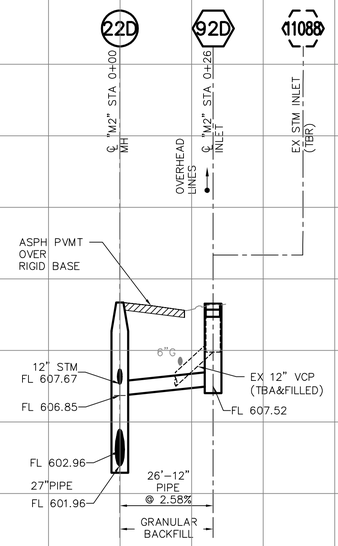
March 2, 2020

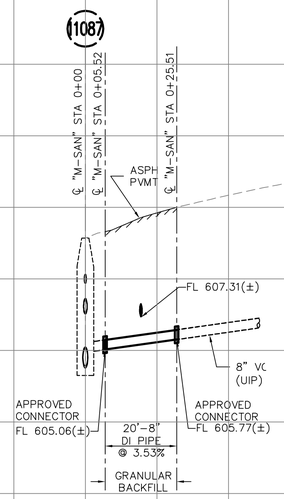
BASE MAP: 16-H-2

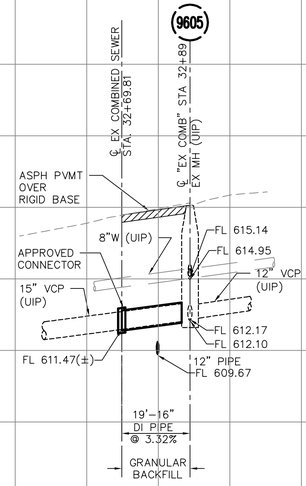
11797-[P23-P28]

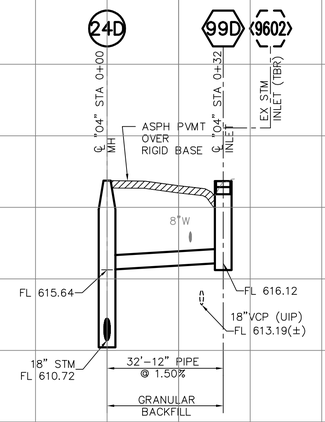
Path: T:\Working\18102 - MSD - Harlem Baden Package 5\Drawings\
Plotted on: 3/02/20 @ 02:25:15PM by kpolovina



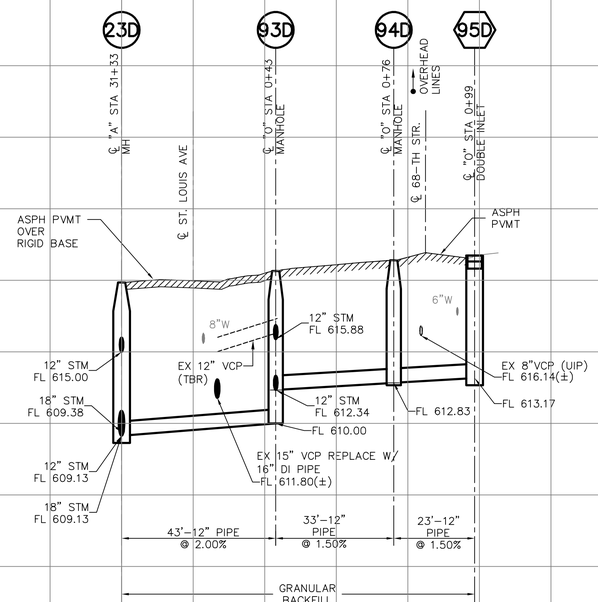


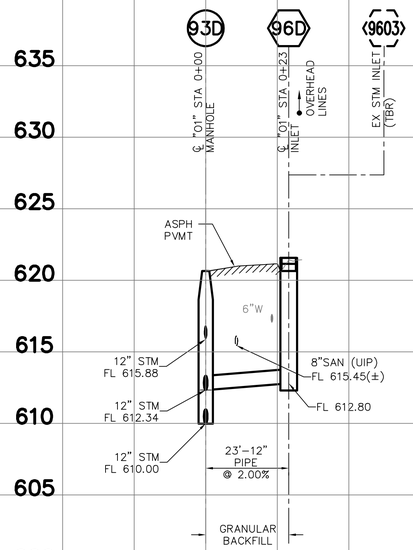


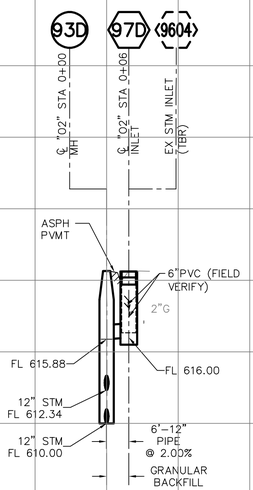


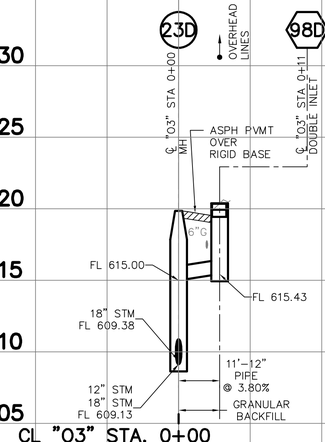


THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.









REV.	DATE	DESCRIPTION	BY

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM-BADEN RELIEF PHASE IV (HEBERT) (DARVER TO 69TH) 11797-015.1 VILLAGE OF HILLSDALE, MISSOURI

SCALE: 1"=20' HORZ. 1"= 5' VERT.

CDG ENGINEERS
One Campbell Plaza
St. Louis, Missouri 63139
T. 314 781 7770
F. 314 781 9075
Missouri State Certificate of Authority # 1271

Engineer Seal

PRELIMINARY

STEPHEN G. HILDERBRAND, P.E.
PROFESSIONAL ENGINEER
P.E. No. E-25381
Date:

Designed S.G.H.
Drawn K.P.
Checked J.F.M.

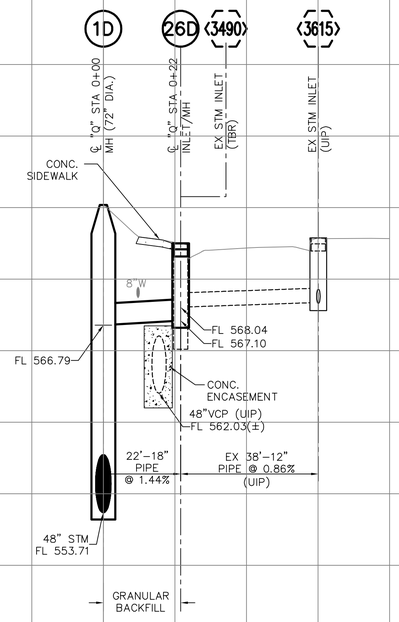
Date MARCH, 2020
Sheet No 25 of 29

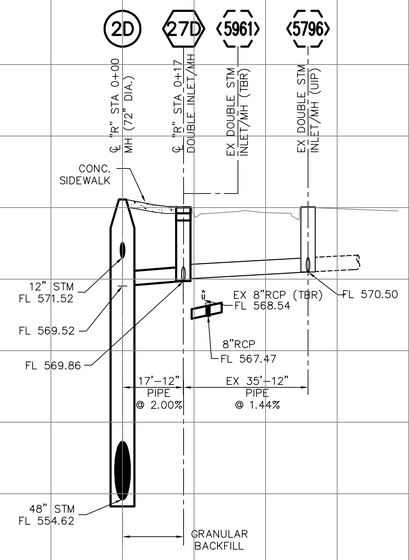
March 2, 2020

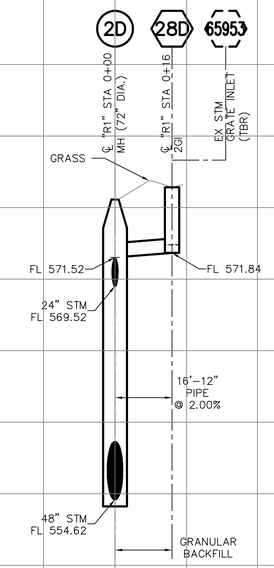
BASE MAP: 16-H-2

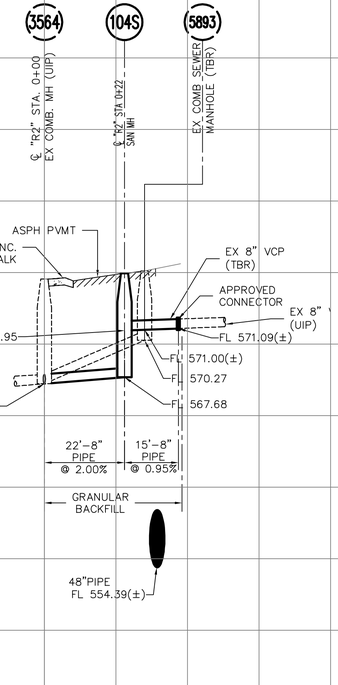
11797-[P24-P28]

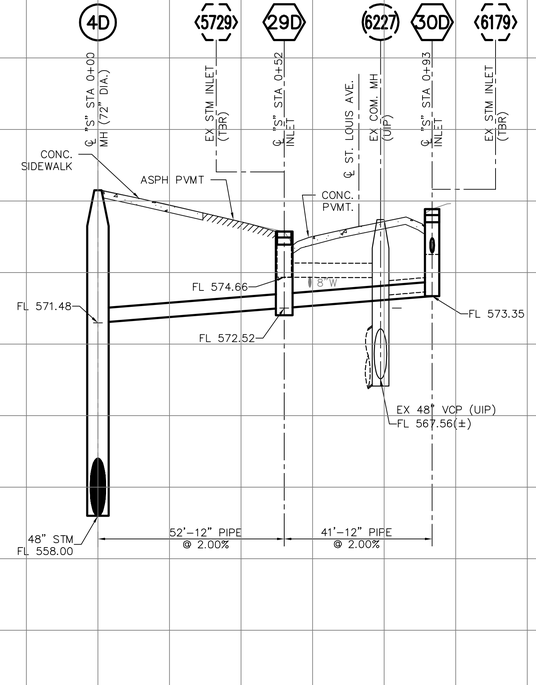
Path: T:\Working\18102 - MSD - Harlem Baden Package 5\Drawings\
Plotted on: 3/02/20 @ 02:26:53PM by kpolovina











THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

SCALE: 1"=20' HORZ.
1"= 5' VERT.

CDG ENGINEERS
One Campbell Plaza
St. Louis, Missouri 63139
T. 314 781 7770
F. 314 781 9075
Missouri State Certificate of Authority # 1271

Engineer Seal

PRELIMINARY

STEPHEN G. HILDERBRAND, P.E.
PROFESSIONAL ENGINEER
P.E. No. E-25381
Date:

REV.	DATE	DESCRIPTION	BY

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM-BADEN RELIEF PHASE IV (HEBERT) (DARVER TO 69TH) 11797-015.1 VILLAGE OF HILLSDALE, MISSOURI

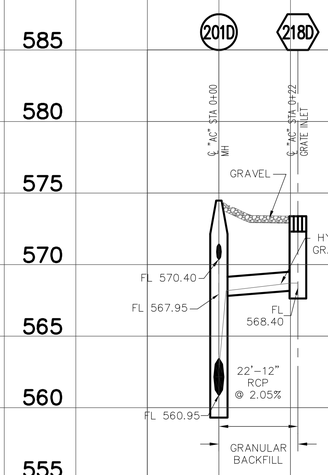
Designed S.G.H.
Drawn K.P.
Checked J.F.M.
Date MARCH, 2020
Sheet No 26 of 29

March 2, 2020

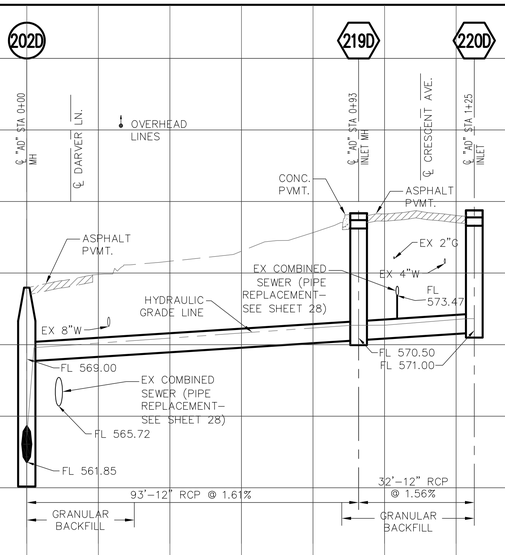
BASE MAP: 16-H-2

11797-[P25-P28]

Path: T:\Working\18102 - MSD - Harlem Baden Package 5\Drawings\
Plotted on: 3/02/20 @ 02:27:23PM by kpolovina

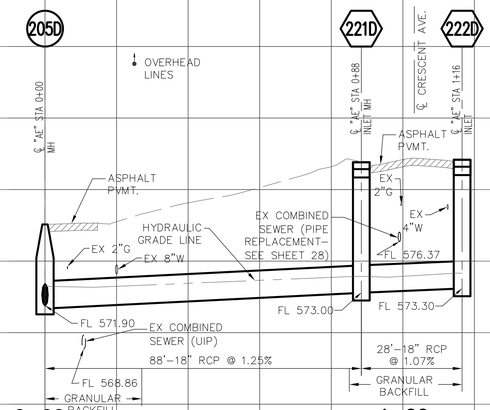


CL "AC" STA. 0+00
(SEE SHEET 17)



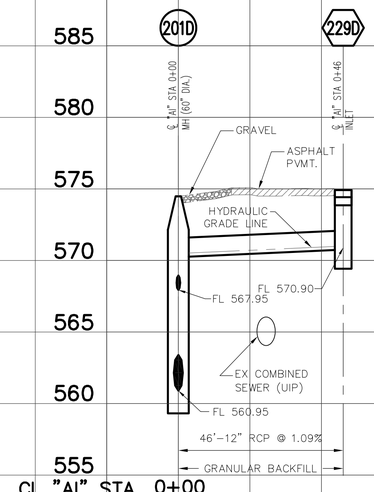
CL "AD" STA. 0+00
(SEE SHEET 17)

1+00



CL "AE" STA. 0+00
(SEE SHEET 17)

1+00



CL "AI" STA. 0+00
(SEE SHEET 17)

SCALE: 1"=20' HORZ.
1"= 5' VERT.

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

REV.	DATE	DESCRIPTION	BY

CDI
5220 OAKLAND AVENUE
St. Louis, MO 63110
314.863.5570
CIVIL DESIGN, INC.
WBE / DBE
Civil Engineering #2002006804
www.civildesigninc.com

Engineer Seal

STATE OF MISSOURI
JEREMY M. LINLEY
NUMBER PE-2012018099
3/2/20
PROFESSIONAL ENGINEER

Jeremy M. Linley, P.E.
PROFESSIONAL ENGINEER
P.E. No. 2012018099
Date: 03/02/2020

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM-BADEN RELIEF PHASE IV (HEBERT) (DARVER TO 69TH)

11797-015.1

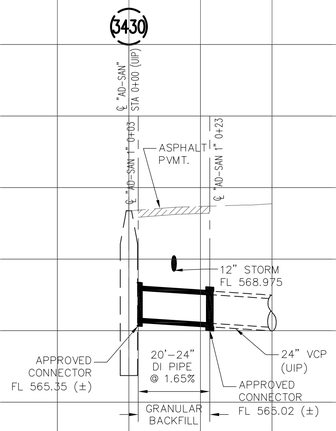
VILLAGE OF HILLSDALE, MISSOURI

Designed J.D.A.
Drawn J.D.A.
Checked J.M.L.

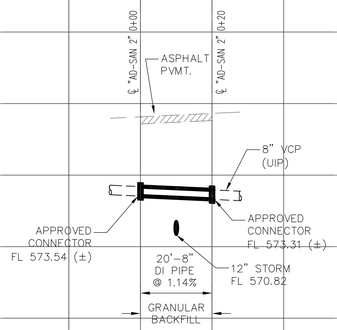
Date MARCH, 2020
Sheet No 27 of 29

March 2, 2020

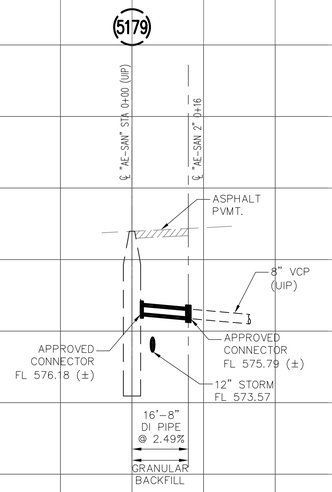
BASE MAP: 16-H-2



CL "AD-SAN 1" STA. 0+00
(SEE SHEET 17)



CL "AD-SAN 2" STA. 0+00
(SEE SHEET 17)



CL "AE-SAN" STA. 0+00
(SEE SHEET 17)

SCALE: 1"=20' HORZ.
1"= 5' VERT.

CDI
5220 OAKLAND AVENUE
St. Louis, MO 63110
314.863.3570
CIVIL DESIGN, INC.
WBE / DBE
Civil Engineering #2002006804
www.civildesigninc.com

Engineer Seal

STATE OF MISSOURI
JEREMY M. LINLEY
NUMBER PE-2012018099
5/1/12
PROFESSIONAL ENGINEER

Jeremy M. Linley, P.E.
PROFESSIONAL ENGINEER
P.E. No. 2012018099
Date: 03/02/2020

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

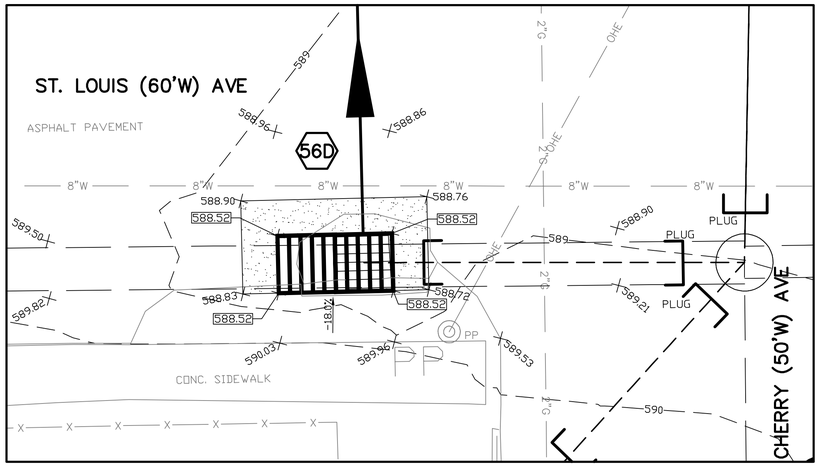
REV.	DATE	DESCRIPTION	BY

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM-BADEN RELIEF PHASE IV
(HEBERT) (DARVER TO 69TH)
11797-015.1
VILLAGE OF HILLSDALE, MISSOURI

Designed J.D.A.
Drawn J.D.A.
Checked J.M.L.
Date MARCH, 2020
Sheet No 28 of 29

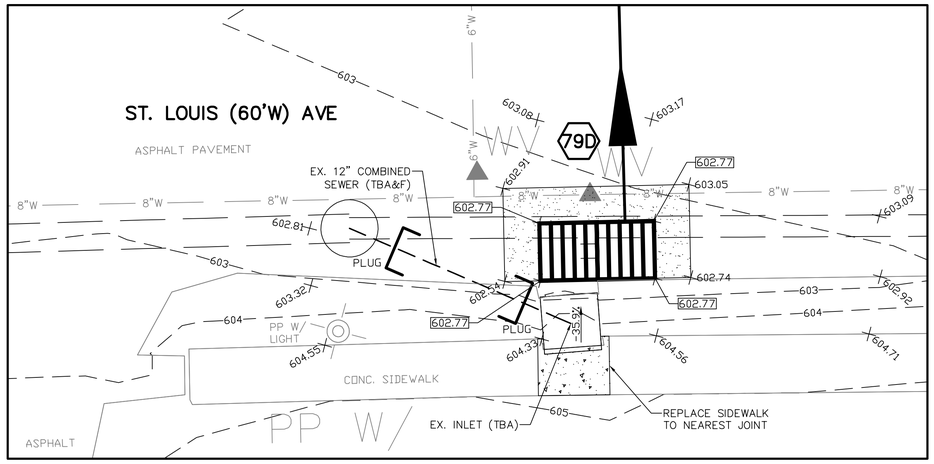
March 2, 2020 BASE MAP: 16-H-2 11797-[P28-P29]



4–GRATE INLET 56D DETAIL

NOT TO SCALE

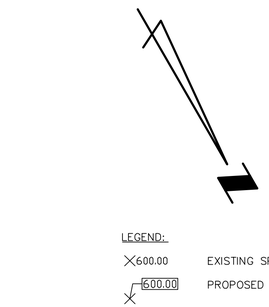
ST. LOUIS AVE. & CHERRY AVE.



4–GRATE INLET 79D DETAIL

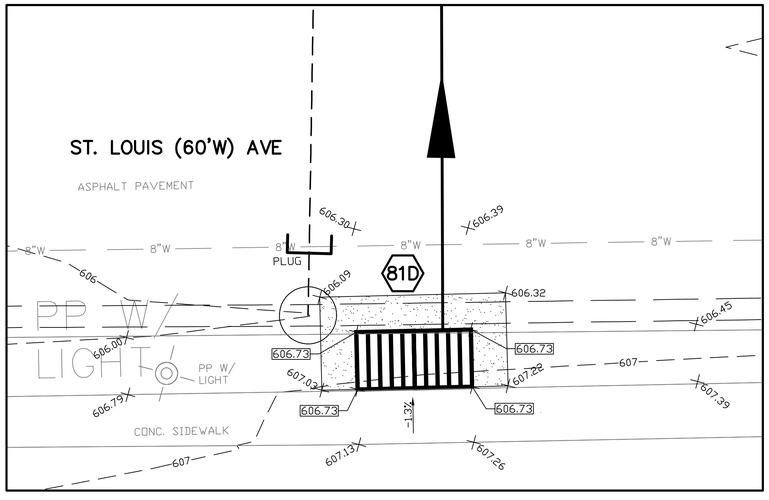
NOT TO SCALE

ST. LOUIS AVE. & ARCHIE MOORE DR.



NOTE(S):

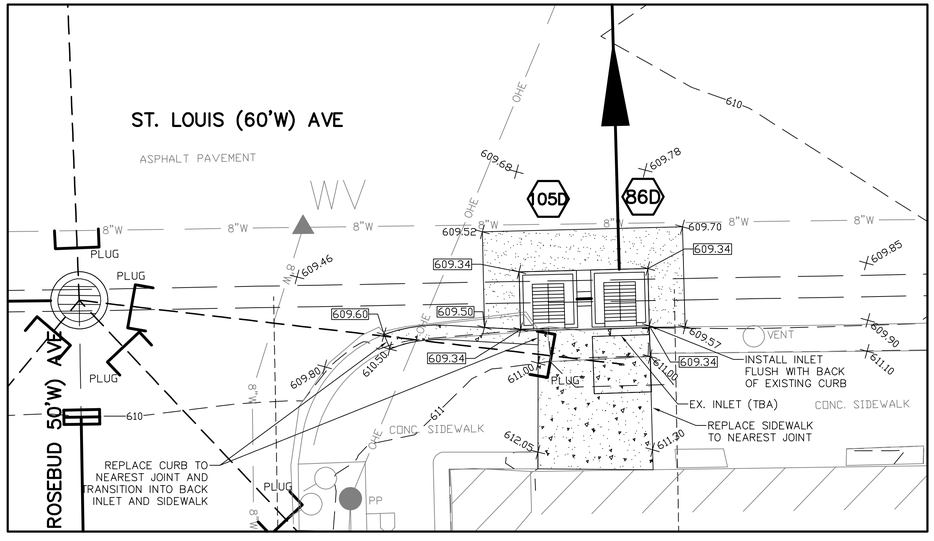
1. INLETS 56D, 79D, AND 81D ARE 4 GRATE INLETS.
2. INLETS 86D AND 105D ARE 2 GRATE INLETS WITH SIDE INTAKES.



4–GRATE INLET 81D DETAIL

NOT TO SCALE

ST. LOUIS AVE.



2–GRATE INLET/SIDE INTAKE 86D & 105D DETAIL

NOT TO SCALE

ST. LOUIS AVE. & ROSE BUD AVE.

THE PROFESSIONAL WHOSE SIGNATURE AND PERSONAL SEAL APPEARS HEREON, ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327.411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

REV.	DATE	DESCRIPTION	BY

METROPOLITAN ST. LOUIS SEWER DISTRICT

HARLEM–BADEN RELIEF PHASE IV (HEBERT) (DARVER TO 69TH) 11797–015.1 VILLAGE OF HILLSDALE, MISSOURI

CDG ENGINEERS
One Campbell Plaza T. 314 781 7770
St. Louis, Missouri 63139 F. 314 781 9075
Missouri State Certificate of Authority # 1271

Engineer Seal

PRELIMINARY

STEPHEN G. HILDERBRAND, P.E.
PROFESSIONAL ENGINEER
P.E. No. E–25381
Date:

Designed S.G.H.
Drawn M.M.V.
Checked J.F.M.

Date MARCH, 2020
Sheet No 29 of 29