

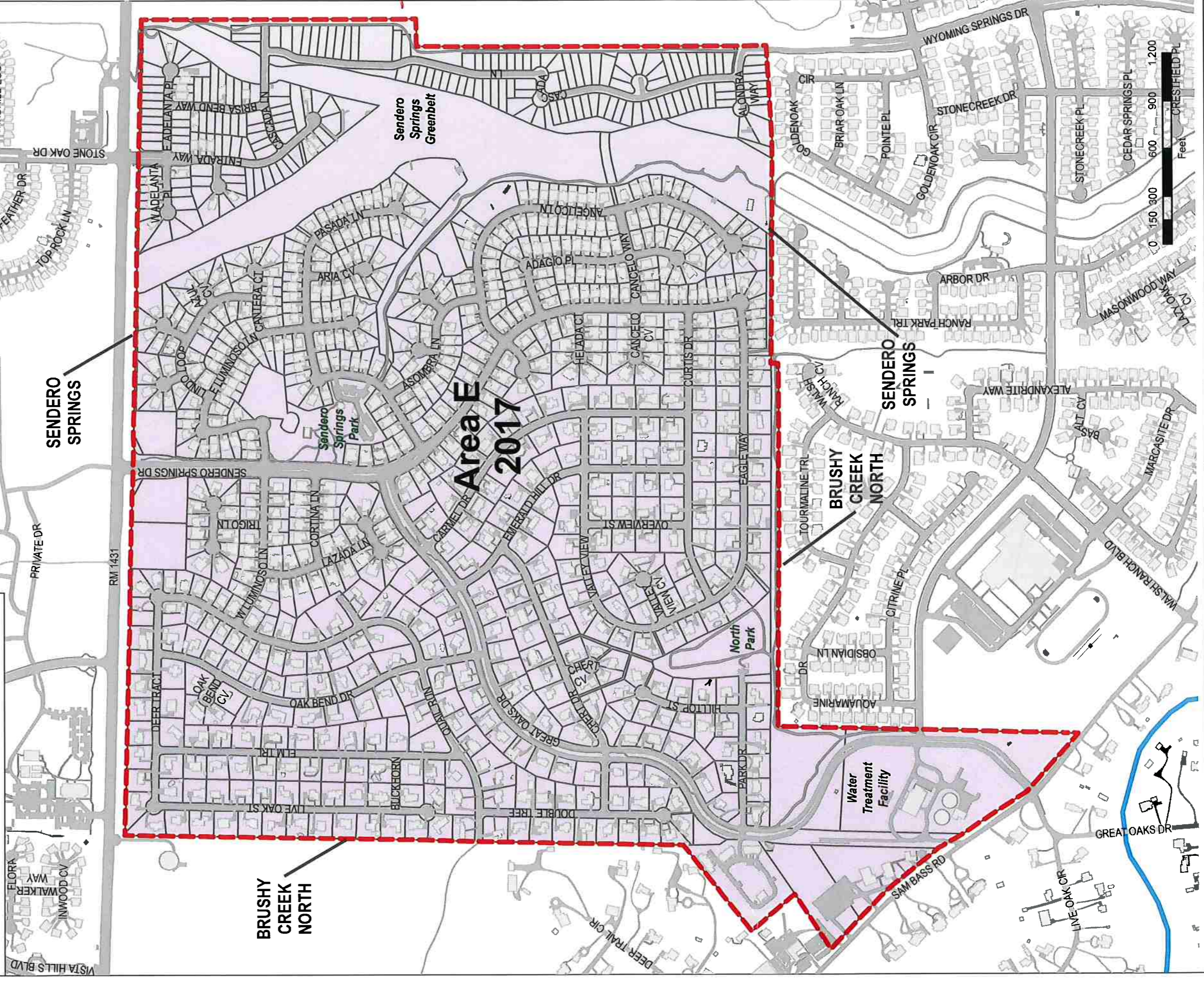
BRUSHY CREEK MUD NORTH

5 Year Annual Inspection Areas

- Area A - 2018 (South)
- Area B - 2019 (South)
- Area C - 2015 (South)
- Area D - 2016 (South)
- Area E - 2017 (North)
- MUD Boundary

SURVEY AREA TOTAL FEET OF PIPE BY DIAMETER						
DIAMETER	A	B	C	D	E	TOTAL PIPE
6 inch	16,711	12,239	31,115	18,689	78,753	
8 inch	33,327	39,130	32,943	29,456	36,083	170,941
10 inch	2,686	5,508	4,336	9,806	1,855	24,191
12 inch	2,413	2,265	632	1,402		2,034
15 inch						4,678
18 inch						56,627
Total	38,426	63,614	54,139	76,927	56,627	289,734

DC North



0226.15002	BRUSHY CREEK MUNICIPAL UTILITY DISTRICT	MRB	Drawn By:
Exhibit:	16318 GREAT OAKS DR, ROUND ROCK, TEXAS 78681		Scale:
2	5 YEAR SANITARY SEWER TV INSPECTION AREAS		Date:
			JAN 2016

MRB | group

MRB Group, P.C., TPEE Firm Number: F-10615
 8834 N. Capital of Texas Hwy, Suite 147, Austin, Texas 78759 Tel: 512-627-6459
 Corporate Office: 145 Culver Road, Suite 60, Rochester, New York 14620 Tel: 565-381-9250
 www.mrbgroup.com

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BRUSHY CREEK MUD NORTH

Sanitary Sewer

- 6 Inch
- 8 Inch
- 12 Inch
- MUD Boundary



NOTE:
SANITARY SEWER
DIAMETER BASED ON
BEST AVAILABLE
RECORD INFORMATION

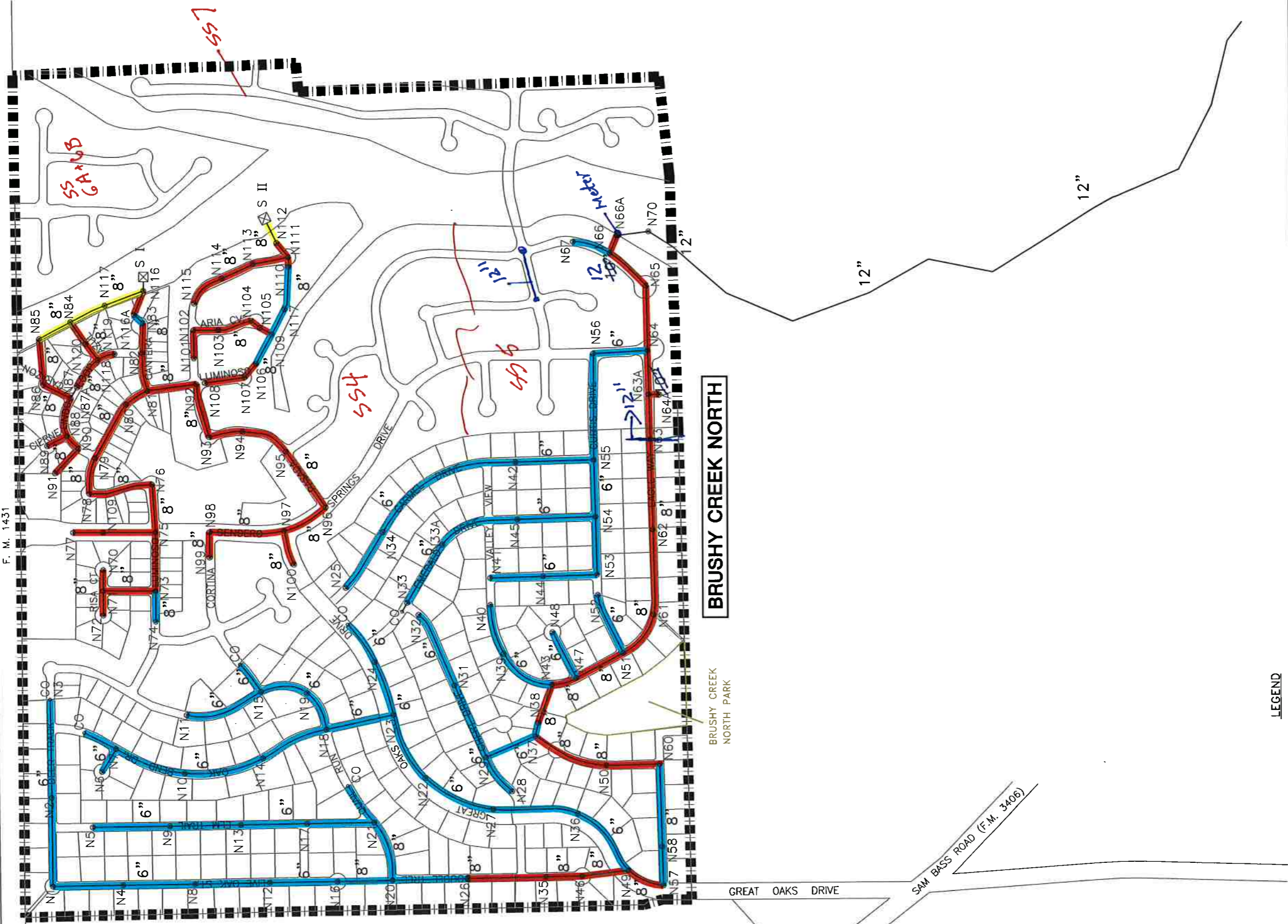
0226.15002	BRUSHY CREEK MUNICIPAL UTILITY DISTRICT	Drawn By: MRB	MRB
Exhibit: 16318 GREAT OAKS DR, ROUND ROCK, TEXAS 78681		Scale: 1" = 600' @ 11" x 17"	
6	SANITARY SEWER SYSTEM MAP	Date: FEB 2016	



MRB | group

MRB Group, P.C., TBE Firm Number: F-10615
8834 N. Capital of Texas Hwy, Suite 147, Austin, Texas 78759 Tel: 512-627-6459
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www.mrbgroup.com

F. M. 1431



BRUSHY CREEK NORTH

BRUSHY CREEK NORTH PARK

GREAT OAKS DRIVE

SAM BASS ROAD (F.M. 3406)

LEGEND

- 6" WASTEWATER LINE
- 8" WASTEWATER LINE
- 10" WASTEWATER LINE
- 12" WASTEWATER LINE
- 16" WASTEWATER LINE
- 18" WASTEWATER LINE
- 24" WASTEWATER LINE
- PARK AREAS
- MUD BOUNDARY
- TV INSPECTION (2011) 15,115 L.F.
- TV INSPECTION (2012) 22,122 L.F.
- TV INSPECTION (2013) 831 L.F.



EXHIBIT 1
TV INSPECTION - DEC 2013
BRUSHY CREEK MUD
BURY

221 West Sixth Street, Suite 800
 Fort Worth, TX 76102
 Tel: (817) 338-2011 Fax: (817) 338-0325
 TBP# F-1048, TBP# F-107000
 Copyright © 2014

- NOTES:
- DASHED LINES INDICATE INSPECTION IS DUE.
 - WASTEWATER LINE SIZES ARE OBTAINED FROM AS-BUILT DRAWINGS
 - BASE MAP SOURCE FROM RICHARDSON VERDOORN.

NOTES:

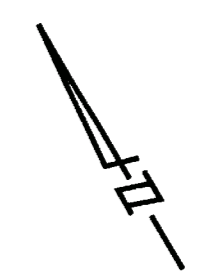
1. WATER LINES ARE SHOWN ON THE WASTEWATER PLAN AND PLAN/PROFILE SHEETS FOR REFERENCE ONLY. ALL WATERLINES, VALVES, FIRE HYDRANT ASSEMBLIES SHALL BE INSTALLED AT THE LOCATIONS THAT ARE INDICATED ON THE WATER DISTRIBUTION PLANS ONLY.
2. SEE WATER DISTRIBUTION PLANS FOR ADDITIONAL INFORMATION REGARDING SERVICE LOCATIONS.
3. ALL MANHOLES SHALL BE VACUUM TESTED.
4. FOR ACTUAL SERVICE LOCATIONS, SEE WASTEWATER DETAIL SHEETS.
5. ALL EXISTING MANHOLE LIDS TO BE ADJUSTED TO MATCH FINAL PAVEMENT GRADE. REMOVE EXISTING MANHOLE VENTS AND GROUT AND SEAL MANHOLE INTERIORS.
6. CONNECTION TO EXISTING BRUSHY CREEK REGIONAL MANHOLES AT STA. 1+00.00 WMLN 'A' AND STA. 1+00.00 WMLN 'B' SHALL BE IN ACCORDANCE WITH CITY OF AUSTIN SPECIFICATION 506.5(F).
7. SEE PLAN SHEET 3 AND 10 FOR CONSTRUCTION ITEMS RELATED TO THE KARST FEATURES. ALSO REFER TO THE GEOLOGICAL ASSESSMENT BY SWCA FOR MORE FEATURE DESCRIPTIONS (AVAILABLE UOPN REQUEST).

WASTEWATER COLLECTION LEGEND

- EXIST. DOUBLE WW. SERVICE CONN.
- EXIST. SINGLE WW. SERVICE CONN.
- EXISTING WASTEWATER LINE & MANHOLE
- PROPOSED NEW MANHOLE
- PROPOSED DOUBLE WW. SERVICE CONN.
- PROPOSED SINGLE WW. SERVICE CONN. (OR) IF REQUIRED
- DIRECTION OF FLOW
- SECTION 7 BOUNDARY
- DIVERSION DIKE
- GEOLOGICAL FEATURE (SEE NOTE 7)

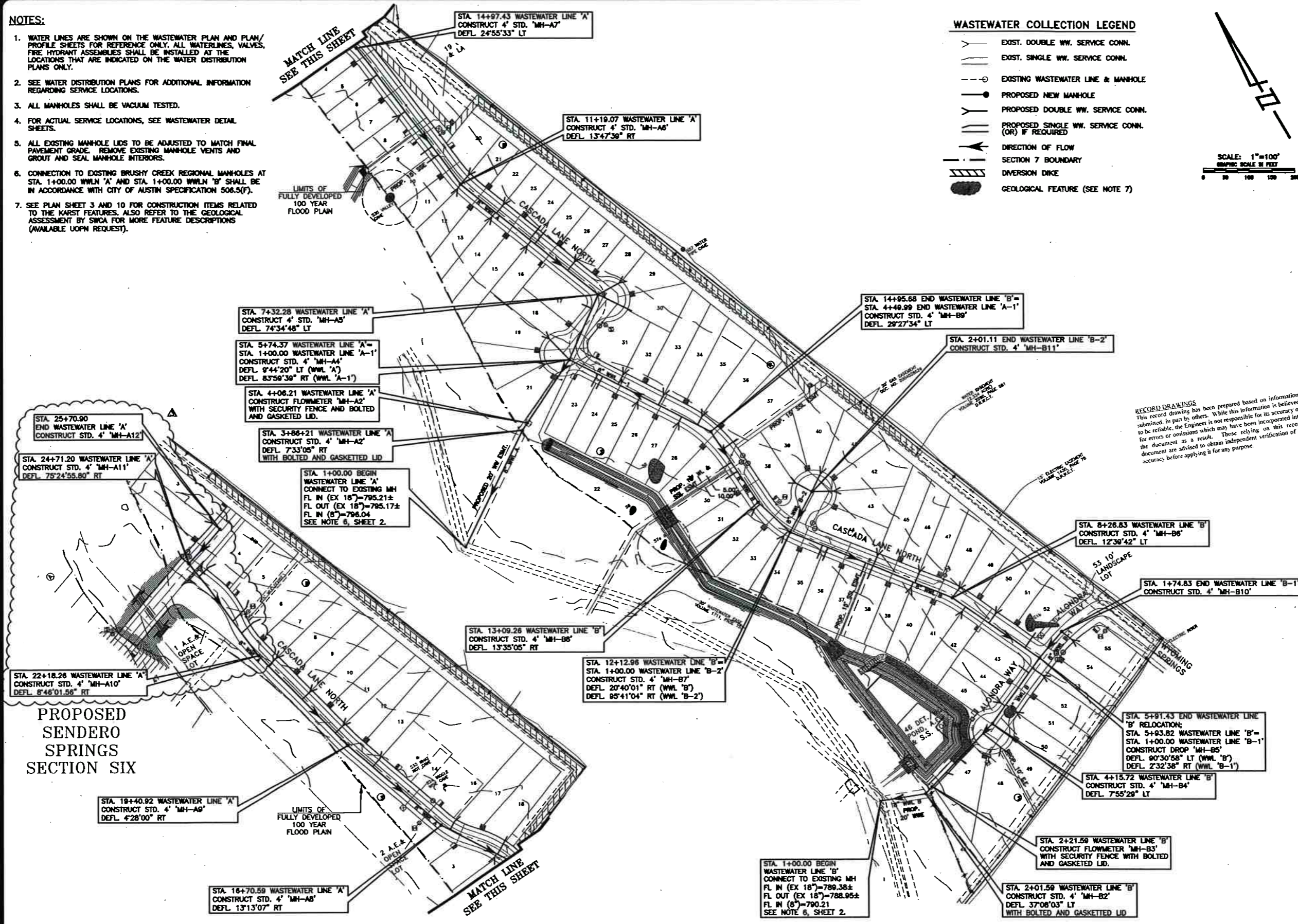
SCALE: 1"=100'
GRAPHIC SCALE IN FEET

0 50 100 150 200



FILE: W:\1238-9989 SENDERO SPRINGS SEC 7(CAD)Revision 3\Sheets\7-9989OVERALL WW 50.dwg LAYOUT: OVERALL WW PLAN DATE: 8/9/2012 1:40:53 PM BY: CBAULEY

PROPOSED SENDERO SPRINGS SECTION SIX



RECORD DRAWINGS
This record drawing has been prepared based on information submitted in part by others. While this information is believed to be reliable, the Engineer is not responsible for its accuracy or for errors or omissions which may have been incorporated into the document as a result. Those relying on this record document are advised to obtain independent verification of its accuracy before applying it for any purpose.

PROJECT NO. 1238-9989 DESIGNED BY: JDB
 FILE #9989OVERALL WW 50 DRAWN BY: JDB
 DATE: AUGUST 2010 CHECKED BY: JDB

GRAY + JANSING & ASSOCIATES, INC.
 Consulting Engineers
 8817 North Creek
 Austin, Texas 78757-7088
 (512)448-0871 FAX (512)448-1989
 WWW.GJAAS.COM

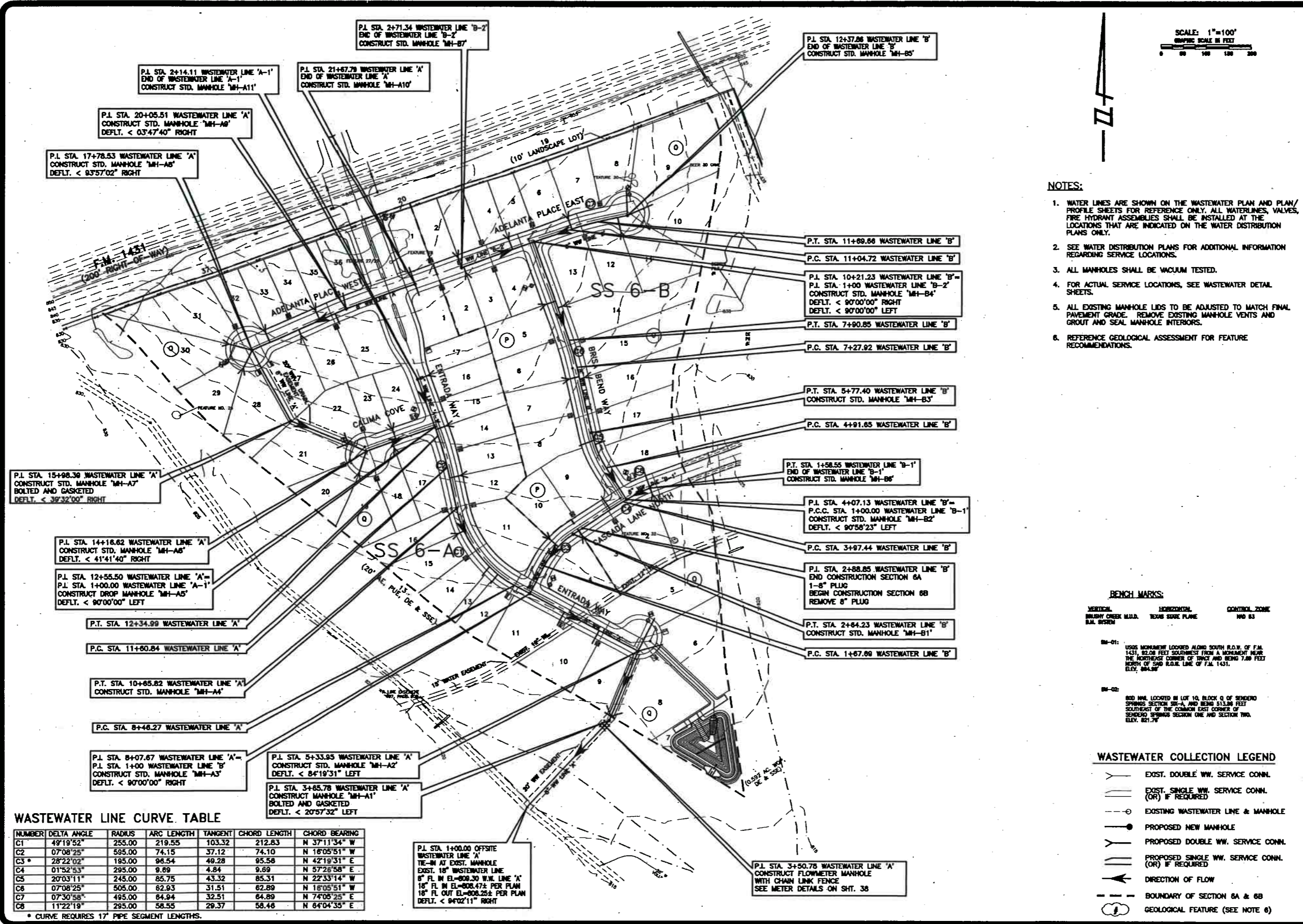
NO.	BY	DATE	REVISION DESCRIPTION
1	JDB	8/27/12	RE-ALIGNMENT OF CASCADA NORTH LANE

SENDERO SPRINGS SECTION 7 WATER, WASTEWATER, STREET & DRAINAGE IMPROVEMENTS

OVERALL WASTEWATER COLLECTION PLAN

NOTICE:
ALTERATION OF A SEALED DRAWING WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS A VIOLATION OF THE TEXAS PROFESSIONAL ENGINEERING PRACTICE ACT.





SCALE: 1"=100'
GRAPHIC SCALE IN FEET
0 50 100 150 200

NOTES:

1. WATER LINES ARE SHOWN ON THE WASTEWATER PLAN AND PLAN/PROFILE SHEETS FOR REFERENCE ONLY. ALL WATERLINES, VALVES, FIRE HYDRANT ASSEMBLIES SHALL BE INSTALLED AT THE LOCATIONS THAT ARE INDICATED ON THE WATER DISTRIBUTION PLANS ONLY.
2. SEE WATER DISTRIBUTION PLANS FOR ADDITIONAL INFORMATION REGARDING SERVICE LOCATIONS.
3. ALL MANHOLES SHALL BE VACUUM TESTED.
4. FOR ACTUAL SERVICE LOCATIONS, SEE WASTEWATER DETAIL SHEETS.
5. ALL EXISTING MANHOLE LIDS TO BE ADJUSTED TO MATCH FINAL PAVEMENT GRADE. REMOVE EXISTING MANHOLE VENTS AND GROUT AND SEAL MANHOLE INTERIORS.
6. REFERENCE GEOLOGICAL ASSESSMENT FOR FEATURE RECOMMENDATIONS.

BENCH MARKS:

- VERTICAL: HUBBY CREEK M.U.D. B.M. SYSTEM
HORIZONTAL: TEXAS STATE PLANE
CONTROL ZONE: HW 63
- BM-01: USGS MONUMENT LOCATED ALONG SOUTH R.O.W. OF F.M. 1431, 82.00 FEET SOUTHWEST FROM A MONUMENT NEAR THE NORTHEAST CORNER OF TRACT AND BEING 7.00 FEET NORTH OF SHD R.O.W. LINE OF F.M. 1431. ELEV. 821.74'
 - BM-02: 800 INH. LOCATED IN LOT 10, BLOCK Q OF SENDERO SPRINGS SECTION 6A, AND BEING 513.90 FEET SOUTHWEST OF THE COMMON EAST CORNER OF SENDERO SPRINGS SECTION ONE AND SECTION TWO. ELEV. 821.74'

WASTEWATER COLLECTION LEGEND

- EXIST. DOUBLE WW. SERVICE CONN.
- EXIST. SINGLE WW. SERVICE CONN. (OR) IF REQUIRED
- EXISTING WASTEWATER LINE & MANHOLE
- PROPOSED NEW MANHOLE
- PROPOSED DOUBLE WW. SERVICE CONN.
- PROPOSED SINGLE WW. SERVICE CONN. (OR) IF REQUIRED
- DIRECTION OF FLOW
- BOUNDARY OF SECTION 6A & 6B
- GEOLOGICAL FEATURE (SEE NOTE 6)

WASTEWATER LINE CURVE TABLE

NUMBER	DELTA ANGLE	RADIUS	ARC LENGTH	TANGENT	CHORD LENGTH	CHORD BEARING
C1	49°19'52"	255.00	219.55	103.32	212.83	N 37°11'34" W
C2	07°08'25"	595.00	74.15	37.12	74.10	N 18°05'51" W
C3 *	28°22'02"	195.00	96.54	49.28	95.58	N 42°19'31" E
C4	01°52'53"	295.00	9.89	4.84	9.89	N 57°26'58" E
C5	20°03'11"	245.00	85.75	43.32	85.31	N 22°33'14" W
C6	07°08'25"	505.00	62.93	31.51	62.89	N 18°05'51" W
C7	07°30'58"	495.00	64.94	32.51	64.89	N 74°05'25" E
C8	11°22'19"	295.00	58.55	29.37	58.48	N 64°04'35" E

* CURVE REQUIRES 17' PIPE SEGMENT LENGTHS.

PROJECT NO. 1238-9888 DESIGNED BY: LWW
 FILE NO. 9886-WW-PL DRAWN BY: LWW
 DATE: MARCH 2008 CHECKED BY: JDH

GRAY JANSING & ASSOCIATES, INC.
 Consulting Engineers
 8817 Shovel Creek Blvd., Suite 200
 Austin, Texas 78757-7188
 (512) 448-0871 FAX (512) 448-9888

NO.	BY	DATE	REVISION DESCRIPTION

SENDERO SPRINGS
SECTION 6A & 6B
WATER, WASTEWATER,
STREET AND DRAINAGE
IMPROVEMENTS

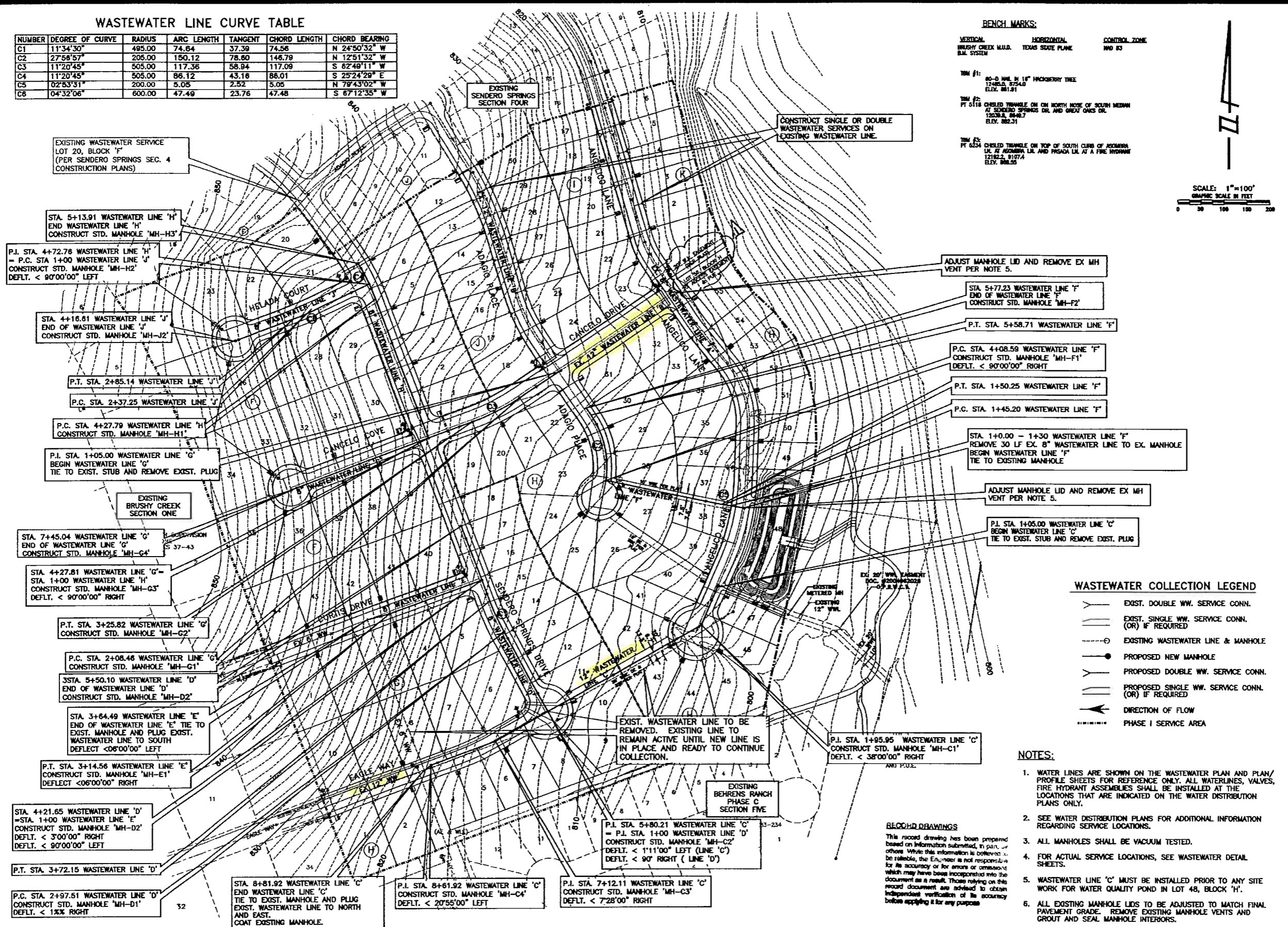
OVERALL
WASTEWATER
COLLECTION
PLAN

NOTE:
ALTERATION OF A SEALED DRAWING WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS A VIOLATION OF THE TEXAS ENGINEERING PRACTICE ACT.



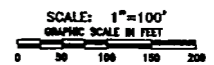
WASTEWATER LINE CURVE TABLE

NUMBER	DEGREE OF CURVE	RADIUS	ARC LENGTH	TANGENT	CHORD LENGTH	CHORD BEARING
C1	11°34'30"	495.00	74.64	37.39	74.56	N 24°50'32" W
C2	27°56'57"	205.00	150.12	78.80	146.79	N 12°51'32" W
C3	11°20'45"	505.00	117.36	58.84	117.09	S 62°49'11" W
C4	11°20'45"	505.00	86.12	43.16	86.01	S 25°24'29" E
C5	02°53'31"	200.00	5.05	2.52	5.05	N 79°43'02" W
C6	04°32'06"	600.00	47.49	23.76	47.48	S 67°12'35" W



BENCH MARKS:

- VERTICAL: BRUSHY CREEK M.U.D. B.M. SYSTEM
- HORIZONTAL: TEXAS STATE PLANE
- CONTROL ZONE: MD 83
- B.M. #1: 80-0 NAIL IN 1" HICKORY TREE, 12480.0, 8754.0, ELEV. 881.81
- B.M. #2: CHIEF TRIANGLE ON NORTHERN NOSE OF SOUTH MEDIAN AT SENDERO SPRINGS DR. AND GREAT OAKS DR., 12030.8, 8848.7, ELEV. 882.31
- B.M. #3: CHIEF TRIANGLE ON TOP OF SOUTH CURB OF ASCENSA LN. AT ASCENSA LN. AND PASADA LN. AT A FIRE HYDRANT, 12182.2, 8107.4, ELEV. 882.55



EXISTING WASTEWATER SERVICE LOT 20, BLOCK 'F' (PER SENDERO SPRINGS SEC. 4 CONSTRUCTION PLANS)

EXISTING SENDERO SPRINGS SECTION FOUR

CONSTRUCT SINGLE OR DOUBLE WASTEWATER SERVICES ON EXISTING WASTEWATER LINE.

ADJUST MANHOLE LID AND REMOVE EX MH VENT PER NOTE 5.

STA. 5+13.91 WASTEWATER LINE 'H' END WASTEWATER LINE 'H' CONSTRUCT STD. MANHOLE 'MH-H3'

P.I. STA. 4+72.78 WASTEWATER LINE 'H' - P.C. STA. 1+00 WASTEWATER LINE 'J' CONSTRUCT STD. MANHOLE 'MH-H2' DEFLT. < 90°00'00" LEFT

STA. 4+16.61 WASTEWATER LINE 'J' END OF WASTEWATER LINE 'J' CONSTRUCT STD. MANHOLE 'MH-J2'

P.T. STA. 2+85.14 WASTEWATER LINE 'J'

P.C. STA. 2+37.25 WASTEWATER LINE 'J'

P.C. STA. 4+27.79 WASTEWATER LINE 'H' CONSTRUCT STD. MANHOLE 'MH-H1'

P.I. STA. 1+05.00 WASTEWATER LINE 'G' BEGIN WASTEWATER LINE 'G' TIE TO EXIST. STUB AND REMOVE EXIST. PLUG

EXISTING BRUSHY CREEK SECTION ONE

STA. 7+45.04 WASTEWATER LINE 'G' END OF WASTEWATER LINE 'G' CONSTRUCT STD. MANHOLE 'MH-G4'

STA. 4+27.81 WASTEWATER LINE 'G' - STA. 1+00 WASTEWATER LINE 'H' CONSTRUCT STD. MANHOLE 'MH-G3' DEFLT. < 90°00'00" RIGHT

P.T. STA. 3+25.82 WASTEWATER LINE 'G' CONSTRUCT STD. MANHOLE 'MH-G2'

P.C. STA. 2+08.48 WASTEWATER LINE 'G' CONSTRUCT STD. MANHOLE 'MH-G1'

3STA. 5+50.10 WASTEWATER LINE 'D' END OF WASTEWATER LINE 'D' CONSTRUCT STD. MANHOLE 'MH-D2'

STA. 3+64.49 WASTEWATER LINE 'E' END OF WASTEWATER LINE 'E' TIE TO EXIST. MANHOLE AND PLUG EXIST. WASTEWATER LINE TO SOUTH WASTEWATER LINE TO EXIST. MANHOLE AND PLUG EXIST. WASTEWATER LINE TO SOUTH

P.T. STA. 3+14.56 WASTEWATER LINE 'E' CONSTRUCT STD. MANHOLE 'MH-E1' DEFLT. < 06°00'00" RIGHT

STA. 4+21.65 WASTEWATER LINE 'D' - STA. 1+00 WASTEWATER LINE 'E' CONSTRUCT STD. MANHOLE 'MH-D2' DEFLT. < 3°00'00" RIGHT DEFLT. < 90°00'00" LEFT

P.T. STA. 3+72.15 WASTEWATER LINE 'D'

P.C. STA. 2+97.51 WASTEWATER LINE 'D' CONSTRUCT STD. MANHOLE 'MH-D1' DEFLT. < 1% RIGHT

STA. 8+81.92 WASTEWATER LINE 'C' END WASTEWATER LINE 'C' TIE TO EXIST. MANHOLE AND PLUG EXIST. WASTEWATER LINE TO NORTH AND EAST COAT EXISTING MANHOLE.

P.I. STA. 8+61.92 WASTEWATER LINE 'C' CONSTRUCT STD. MANHOLE 'MH-C4' DEFLT. < 20°55'00" LEFT

P.I. STA. 7+12.11 WASTEWATER LINE 'C' CONSTRUCT STD. MANHOLE 'MH-C3' DEFLT. < 7°28'00" RIGHT

P.I. STA. 5+80.21 WASTEWATER LINE 'C' - P.I. STA. 1+00 WASTEWATER LINE 'D' CONSTRUCT STD. MANHOLE 'MH-C2' DEFLT. < 1°11'00" LEFT (LINE 'C') DEFLT. < 90° RIGHT (LINE 'D')

EXIST. WASTEWATER LINE TO BE REMOVED. EXISTING LINE TO REMAIN ACTIVE UNTIL NEW LINE IS IN PLACE AND READY TO CONTINUE COLLECTION.

P.I. STA. 1+85.95 WASTEWATER LINE 'C' CONSTRUCT STD. MANHOLE 'MH-C1' DEFLT. < 38°00'00" RIGHT

EXISTING BEHRENS RANCH PHASE C SECTION FIVE

EXISTING METERED MH EXISTING 12" WWL

EXISTING WASTEWATER LINE TO BE REMOVED. EXISTING LINE TO REMAIN ACTIVE UNTIL NEW LINE IS IN PLACE AND READY TO CONTINUE COLLECTION.

ADJUST MANHOLE LID AND REMOVE EX MH VENT PER NOTE 5.

STA. 5+77.23 WASTEWATER LINE 'F' END OF WASTEWATER LINE 'F' CONSTRUCT STD. MANHOLE 'MH-F2'

P.T. STA. 5+58.71 WASTEWATER LINE 'F'

P.C. STA. 4+08.59 WASTEWATER LINE 'F' CONSTRUCT STD. MANHOLE 'MH-F1' DEFLT. < 90°00'00" RIGHT

P.T. STA. 1+50.25 WASTEWATER LINE 'F'

P.C. STA. 1+45.20 WASTEWATER LINE 'F'

STA. 1+0.00 - 1+30 WASTEWATER LINE 'F' REMOVE 30 LF EX. 8" WASTEWATER LINE TO EX. MANHOLE BEGIN WASTEWATER LINE 'F' TIE TO EXISTING MANHOLE

P.I. STA. 1+05.00 WASTEWATER LINE 'C' BEGIN WASTEWATER LINE 'C' TIE TO EXIST. STUB AND REMOVE EXIST. PLUG

WASTEWATER COLLECTION LEGEND

- EXIST. DOUBLE WW. SERVICE CONN.
- EXIST. SINGLE WW. SERVICE CONN. (OR) IF REQUIRED
- EXISTING WASTEWATER LINE & MANHOLE
- PROPOSED NEW MANHOLE
- PROPOSED DOUBLE WW. SERVICE CONN. (OR) IF REQUIRED
- PROPOSED SINGLE WW. SERVICE CONN. (OR) IF REQUIRED
- DIRECTION OF FLOW
- PHASE I SERVICE AREA

NOTES:

- WATER LINES ARE SHOWN ON THE WASTEWATER PLAN AND PLAN/PROFILE SHEETS FOR REFERENCE ONLY. ALL WATERLINES, VALVES, FIRE HYDRANT ASSEMBLIES SHALL BE INSTALLED AT THE LOCATIONS THAT ARE INDICATED ON THE WATER DISTRIBUTION PLANS ONLY.
- SEE WATER DISTRIBUTION PLANS FOR ADDITIONAL INFORMATION REGARDING SERVICE LOCATIONS.
- ALL MANHOLES SHALL BE VACUUM TESTED.
- FOR ACTUAL SERVICE LOCATIONS, SEE WASTEWATER DETAIL SHEETS.
- WASTEWATER LINE 'C' MUST BE INSTALLED PRIOR TO ANY SITE WORK FOR WATER QUALITY POND IN LOT 48, BLOCK 'H'.
- ALL EXISTING MANHOLE LIDS TO BE ADJUSTED TO MATCH FINAL PAVEMENT GRADE. REMOVE EXISTING MANHOLE VENTS AND GROUT AND SEAL MANHOLE INTERIORS.

BEFORE DRAWINGS
This record drawing has been prepared based on information submitted, in part, or others. While this information is believed to be reliable, the Engineer is not responsible for its accuracy or for errors or omissions which may have been incorporated into this document as a result. Those relying on this record document are advised to obtain independent verification of its accuracy before applying it for any purpose.

PROJECT NO. 1239-9517 DESIGNED BY: LWV
FILE NO. 9517-WW-PL DRAWN BY: LWV/JAB
DATE: JUNE 2006 CHECKED BY: RAJ/JMB

GRAY + JANSING & ASSOCIATES, INC.
Consulting Engineers
8817 Shoal Creek Blvd., Suite 800
Austin, Texas 78757-7098
(512)458-0971 FAX(512)458-9833

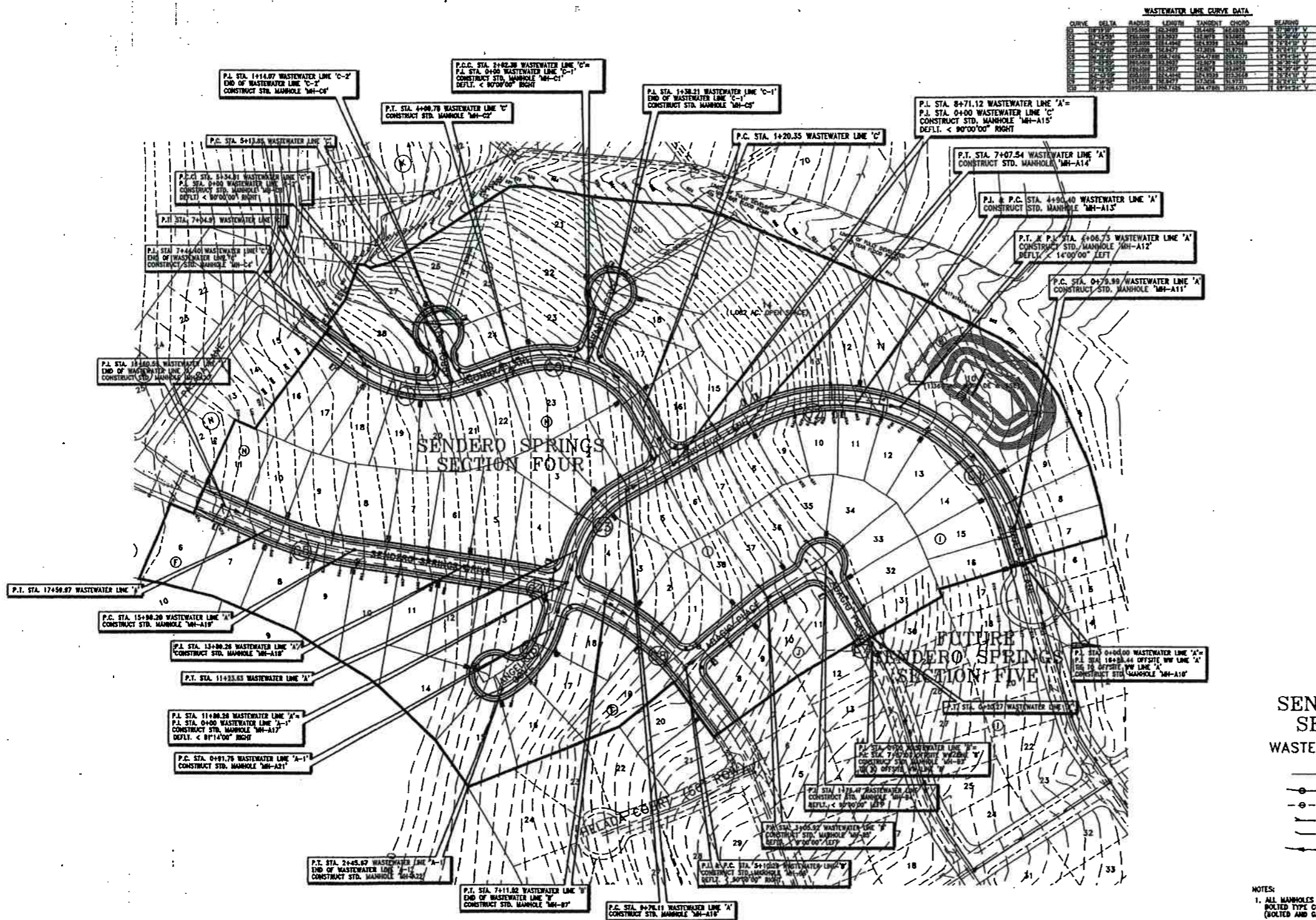
NO.	DATE	REVISION DESCRIPTION
1	6/1/07	DELETE CANCUN DRIVE FROM ANGELES TO SENDERO LINE EAST BOUNDARY LINE

SENDERO SPRINGS SECTION 5 WATER, WASTEWATER STREET AND DRAINAGE IMPROVEMENTS

OVERALL WASTEWATER COLLECTION PLAN

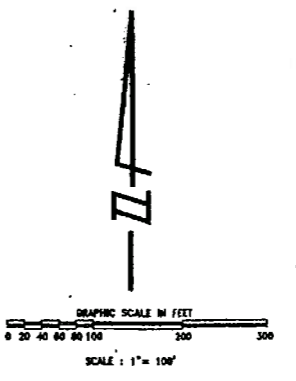
NOTICE: ALTERATION OF A SEALED DRAWING WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS A VIOLATION OF THE TEXAS ENGINEERING PRACTICE ACT.





WASTEWATER LINE CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT	CHORD	BEARING
1	135.00	100.00	100.00	100.00	100.00	135.00
2	135.00	100.00	100.00	100.00	100.00	135.00
3	135.00	100.00	100.00	100.00	100.00	135.00
4	135.00	100.00	100.00	100.00	100.00	135.00
5	135.00	100.00	100.00	100.00	100.00	135.00
6	135.00	100.00	100.00	100.00	100.00	135.00
7	135.00	100.00	100.00	100.00	100.00	135.00
8	135.00	100.00	100.00	100.00	100.00	135.00
9	135.00	100.00	100.00	100.00	100.00	135.00
10	135.00	100.00	100.00	100.00	100.00	135.00
11	135.00	100.00	100.00	100.00	100.00	135.00
12	135.00	100.00	100.00	100.00	100.00	135.00
13	135.00	100.00	100.00	100.00	100.00	135.00
14	135.00	100.00	100.00	100.00	100.00	135.00
15	135.00	100.00	100.00	100.00	100.00	135.00
16	135.00	100.00	100.00	100.00	100.00	135.00
17	135.00	100.00	100.00	100.00	100.00	135.00
18	135.00	100.00	100.00	100.00	100.00	135.00
19	135.00	100.00	100.00	100.00	100.00	135.00
20	135.00	100.00	100.00	100.00	100.00	135.00
21	135.00	100.00	100.00	100.00	100.00	135.00
22	135.00	100.00	100.00	100.00	100.00	135.00
23	135.00	100.00	100.00	100.00	100.00	135.00
24	135.00	100.00	100.00	100.00	100.00	135.00
25	135.00	100.00	100.00	100.00	100.00	135.00
26	135.00	100.00	100.00	100.00	100.00	135.00
27	135.00	100.00	100.00	100.00	100.00	135.00
28	135.00	100.00	100.00	100.00	100.00	135.00
29	135.00	100.00	100.00	100.00	100.00	135.00
30	135.00	100.00	100.00	100.00	100.00	135.00
31	135.00	100.00	100.00	100.00	100.00	135.00
32	135.00	100.00	100.00	100.00	100.00	135.00
33	135.00	100.00	100.00	100.00	100.00	135.00
34	135.00	100.00	100.00	100.00	100.00	135.00
35	135.00	100.00	100.00	100.00	100.00	135.00



RECORD DRAWING
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DATUM USED FOR BENCHMARKS IN THESE PLANS IS 1.25' LOWER THAN THE PUBLISHED ELEVATION FOR CITY OF ROUND ROCK GPS MONUMENT NO. 01-005 WHICH IS REPORTED TO BE ON NAVD 88 DATUM.

SENDERO SPRINGS SECTION FOUR WASTEWATER COLLECTION LEGEND

- PROPOSED NEW MANHOLE
- EXISTING MANHOLE
- DOUBLE WW. SERVICE CONNECTION
- SINGLE WW. SERVICE CONNECTION
- DIRECTION OF FLOW

- NOTES:
- ALL MANHOLES NOT IN STREET AREAS SHALL HAVE STANDARD BOLTED TYPE COVERS, AND EVERY FOURTH MANHOLE (BOLTED AND GASKETED) SHALL BE VENTED.
 - ALL MANHOLES SHALL BE COATED TO CITY OF ROUND ROCK STANDARD SPECIFICATIONS AFTER TESTING, UNLESS MANHOLES ARE FACTORY COATED.
 - WATER LINES ARE SHOWN ON THE WASTEWATER PLAN AND PLAN/PROFILE SHEETS FOR REFERENCE ONLY. ALL WATERLINES, VALVES AND HYDRANT ASSEMBLIES SHALL BE INSTALLED AT THE LOCATIONS THAT ARE INDICATED ON THE WATER DISTRIBUTION PLANS ONLY.
 - SEE WATER DISTRIBUTION PLANS FOR ADDITIONAL INFORMATION.
 - ALL MANHOLES SHALL BE VACUUM TESTED.
 - SEE SERVICES DETAILS ON SHEET #1.
 - WASTEWATER SERVICES FOR LOT 4-BLOCK H. WILL BE IN R.O.W. AT REAR LOT CORNER.

PROJECT NO. 1270-0045-02
 DESIGNED BY: [Signature]
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 DATE: [Signature]
 REVISION: [Signature]

GRAY JANING & ASSOCIATES, INC.
 Consulting Engineers
 2817 Road Creek Boulevard
 Austin, Texas 78758-7000
 (512) 458-0971 FAX (512) 458-0888

SENDERO SPRINGS SECTION FOUR WATER, WASTEWATER, STREET, AND DRAINAGE IMPROVEMENTS

OVERALL WASTEWATER COLLECTION PLAN

NOTICE: ALTERATION OF A SEALED DRAWING WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS A VIOLATION OF THE TEXAS ENGINEERING PRACTICE ACT.

[Professional Engineer Seal: Stephen K. Collins, State of Texas, No. 55988]

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