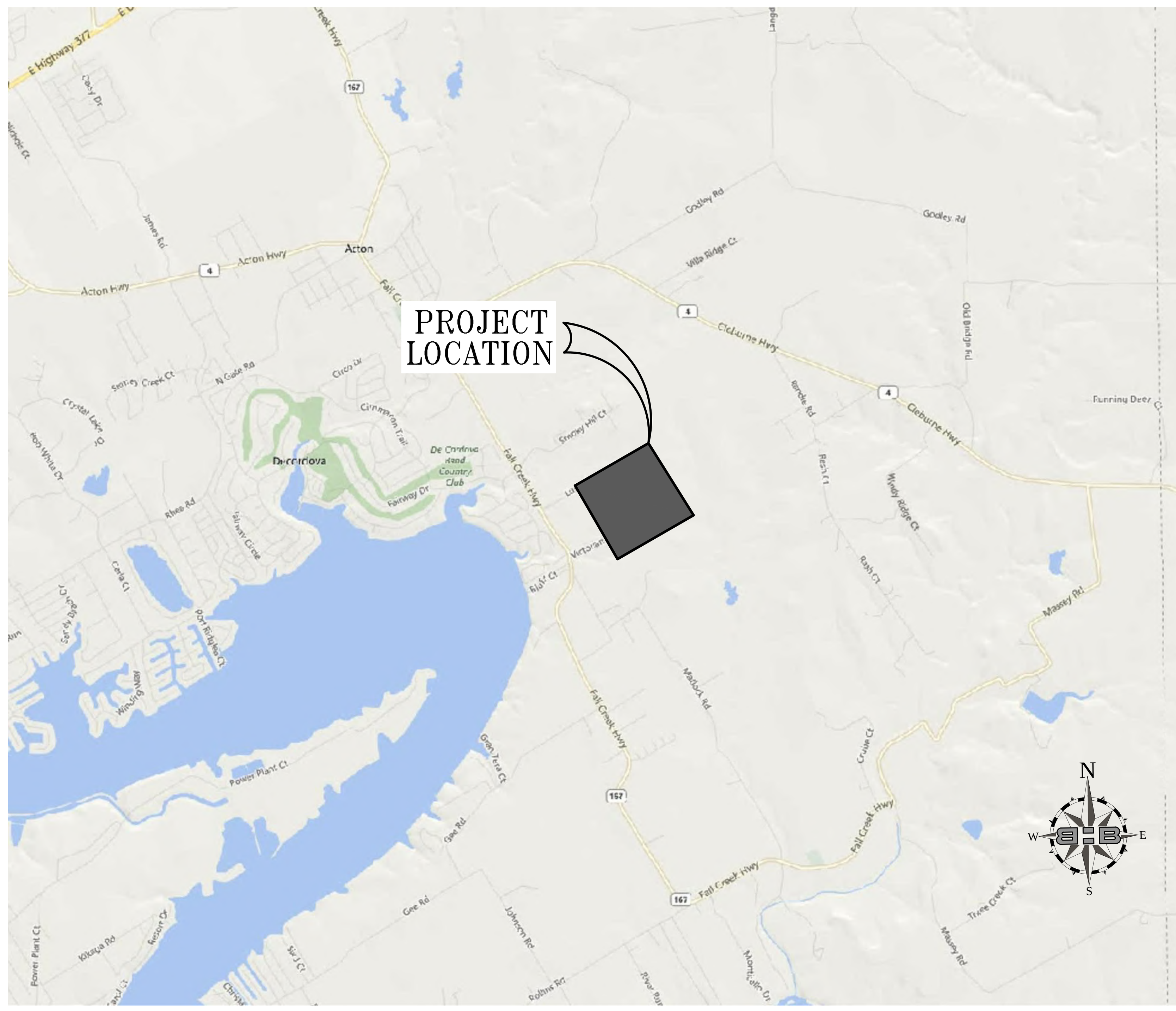
CONSTRUCTION PLANS FOR
ROLLING CREEK RANCH – PHASE 2
A RESIDENTIAL SUBDIVISION
HOOD COUNTY, TEXAS



LOCATION MAP
SEPTEMBER 2016

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1	COVER
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STATE OF TEXAS
TRACY E. STREVEY III
89487
LICENSED
PROFESSIONAL ENGINEER

1/19/17

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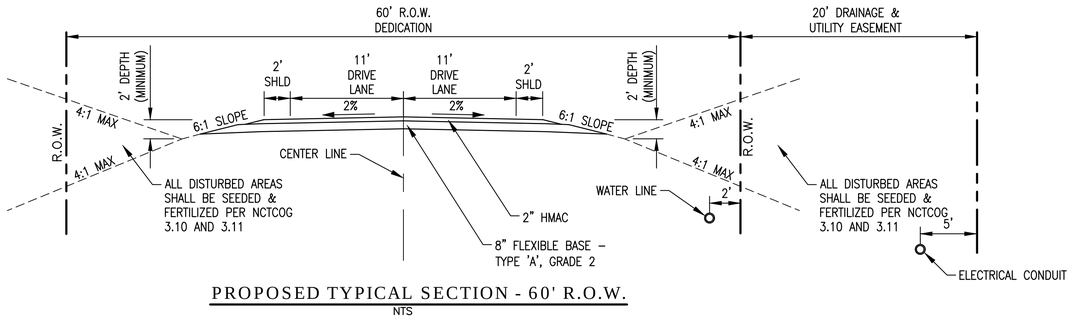

PROPOSED TYPICAL SECTION - 60' R.O.W.

NTS

GENERAL NOTES

1. ALL LINES, GRADES, CONSTRUCTION STAKING AND LAYOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. PRIOR TO BEGINING CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND REPORT ANY DISCREPENCIES TO THE OWNER'S AGENT.
3. ALL DIMENSIONS ARE TO EDGE OF SHOULDER, OR FACE OF CONCRETE BUILDING FOOTING UNLESS OTHERWISE NOTED.
4. EXISTING UTILITY DATA IS PROVIDED FOR INFORMATION ONLY. ALTHOUGH SHOWN AS ACCURATELY AS POSSIBLE, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH MUNICIPAL AND FRANCHISE UTILITY COMPANIES AND LOCATING ALL UTILITIES IN THE FIELD.

CONSTRUCTION STANDARDS
Hood County, Texas

1. General

The Hood County Road Operations Department shall be notified forty-eight (48) hours prior to the commencement of any major constructions items such as sub-grade stabilization, installation of flexible base, prime coat application or placement of surface course. It shall be the owner/developers responsibility to provide adequate inspection of the construction to insure compliance with county standards. All construction and testing reports shall be furnished to the Road Superintendent certifying that the construction requirements of these standards have been met. The test results must be approved prior to initiating the next phase of construction.

The Road Superintendent or his representative shall issue a STOP WORK ORDER whenever the owner/developer or his contractor fails to adhere to the approved plat, construction plans or these specifications. The owner/developer may not continue development until the deficiencies listed in the STOP WORK ORDER are corrected. If the owner/developer or his contractor fails to correct the deficiencies, the subdivision will not be accepted by the Commissioners' Court.

The following shall be the minimum specifications for the design and construction of local residential roadways built in Hood County. All work, methods and materials not covered by these standards shall conform to the most current issue of the "Standard Specifications for Public Works Construction" published by the North Central Texas Council of Governments (NCTCOG).

2. Preparing Right-of-Way

All preparing of the right-of-way and/or clearing and grubbing shall be completed before starting the sub-grade preparation.

All utilities which require roadway crossings shall be installed before starting the Sub-grade preparation.

3. Sub-grade Preparation

Prior to the start of construction on sub-grade, a soil analysis shall be made by a certified soil laboratory to determine if a soil stabilizer (lime, cement, liquid chemical, etc.) is required.

If analysis reveals that soil properties are not acceptable, tests must be made to determine the appropriate stabilizers and optimum quantities for desired results to meet road design.

Sub-grade is defined as "that portion of the roadbed upon which the flexible base or pavement is to be placed". Generally the sub-grade for local roadways is thirty (30) feet wide.

The sub-grade shall be scarified and shaped in conformity with the typical sections and the lines and grades indicated, or as established by the Engineer, by the removal of existing materials or addition of approved material. All unsuitable material shall be removed and replaced with approved material.

The sub-grade shall be compacted by approved mechanical equipment to a density of not less than ninety-five percent (95%) Standard Procter density. Prior to the placement of any base material, tests from a certified soils laboratory shall be supplied by the owner/developer to the Road Operations Department stating that the sub-grade has been compacted to ninety-five (95%) density to a depth of six inches (6") for all sub-grade and for the full depth of all fills. If the sub-grade fails to meet the density specified, it shall be reworked as necessary to obtain the density required.

Fills must be placed and compacted on horizontal lifts of not over twelve inches (12") depth to the specified density. Fill sections whose depth exceed eight feet (8'), at any point on the cross section, shall require a slope stability analysis and/or approval of the Road Operations Department.

4. Flexible Base Course

The base material must meet the requirements of TxDOT Item 247, Flexible Base, Type "A" Grade 2.

The flexible base material shall be compacted to not less than ninety-five percent (95%) Standard Procter density for its full depth and optimum moisture of -2 to +4. If the surface course consists of a 2CP pavement the required depth of base is eight (8) inches. If the surface course is 2 inches of HMAC the required depth of base is eight (8) inches.

Base course shall be maintained by blading, and the surface, upon completion, shall be smooth and in conformity with the typical section indicated, and to the established lines and grades.

All irregularities, depressions or weak spots which develop shall be corrected immediately by scarifying the areas affected, adding suitable material as required, re-shaping and re-compacting by sprinkling and rolling.

Should the base course, due to any reason or cause, lose the required stability, density and finish before the surface is complete, it shall be re-compacted and refinished at the sole expense of the contractor.

5. Surface Course

Hot Mix Asphaltic Concrete (HMAC) Surface

Prior to placing HMAC, the base shall be proof rolled and any soft spots repaired and the area proof rolled again.

The asphaltic material for Prime Coat shall meet the requirements for Item 310, Prime Coat, TxDOT Specifications. Prime Coat shall be applied at a rate not to exceed 0.35 gallon per square yard of surface.

The surface course shall be two inches (2") of HMAC meeting the specifications of Item 340, Type D, in the current TxDOT Specifications. HMAC pavement shall not be placed when the general weather conditions, in the opinion of the County Road Superintendent, are not suitable. Test reports showing material compliance, from a certified testing laboratory, shall be submitted to Road Operations. Minimum tests made and submitted shall be one for each day's production, or one per 1,000 tons placed, whichever is, with a minimum of one per project. Such tests shall be made by and at the expense of the owner/developer.

All asphaltic mixtures shall be placed with a spreading and finishing machine. The mix shall be compressed thoroughly and uniformly compacted immediately after placing to the required density. All compaction rolling shall be complete before the material cools below 175 degrees F. The completed surface shall meet the approval of the Developer's Engineer and the County Road Superintendent for riding surface, finish, and appearance.

6. Street Sign Installation

Street signs shall be installed by the owner/developer in accordance with the current Manual on Uniform Traffic Control Devices for Streets and Highways.

The owner/developer of a subdivision shall install the street name signs on new streets. The proper installation of these signs is a part of the required construction standards of Hood County, and will be inspected for approval prior to the release of the performance bond.

The owner/developer of a subdivision shall not be required to install any traffic control sign or device. The installation of such control signs or devices shall be the responsibility of Hood County or other affected governmental agencies only.

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ROLLING CREEK RANCH PHASE 2
RESIDENTIAL DEVELOPMENT
HOOD COUNTY, TEXAS

GENERAL NOTES AND TYPICAL STREET SECTION

NO.	DESCRIPTION	DATE

STATE OF TEXAS
TRACY E. STREVEY III
89487
LICENSED PROFESSIONAL ENGINEER

1/09/17

PROJECT NUMBER:	2016.121.000		
DATE:	1-19-17	DRAWN BY:	CAW
DESIGN BY:	CAW	CHECKED BY:	TS

SHEET
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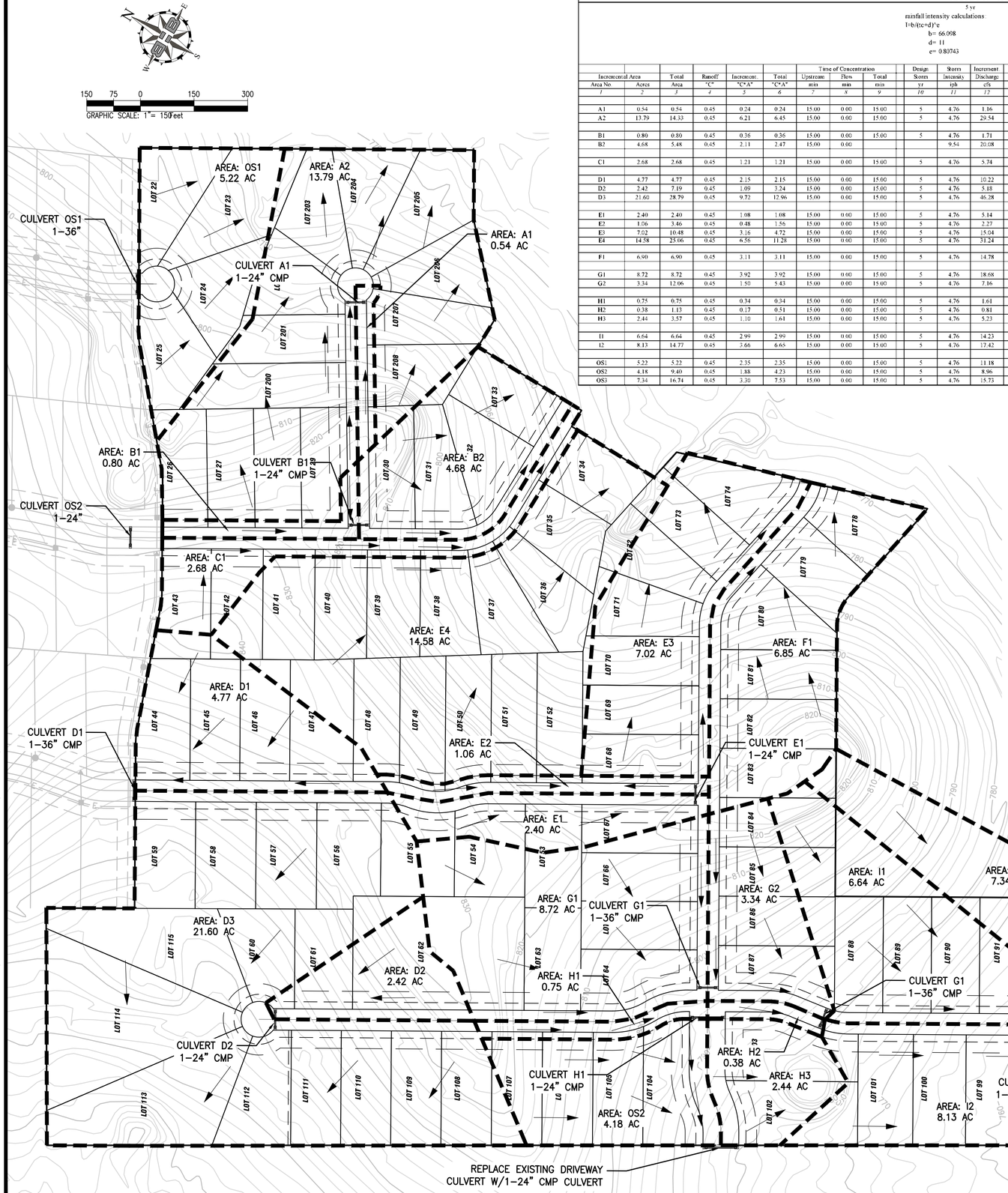

POST-DEVELOPMENT HYDROLOGY - ROLLING CREEK RANCH PHASE 2 CULVERT CROSSINGS

										5 yr rainfall intensity calculations: I=b/(tc+d)^e b= 66.098 d= 11 e= 0.80743				10yr rainfall intensity calculations: I=b/(tc+d)^e b= 76.415 d= 12 e= 0.80275				25yr rainfall intensity calculations: I=b/(tc+d)^e b= 77.103 d= 12 e= 0.79952				100yr rainfall intensity calculations: I=b/(tc+d)^e b= 110.783 d= 14 e= 0.78454				
Incremental Area		Total	Runoff	Increment.	Total	Time of Concentration			Design	Storm	Increment	Total	Design	Storm	Increment.	Total	Design	Storm	Increment	Total	Design	Storm	Increment.	Total	Comments
Area No.	Acres	Area	"C"	"C"A"	"C"A"	Upstream	Flow	Total	Storm	Intensity	Discharge	Discharge	Storm	Intensity	Discharge	Discharge	Storm	Intensity	Discharge	Discharge	Storm	Intensity	Discharge	Discharge	
						min	min	min	yr	iph	cfs	cfs	yr	iph	cfs	cfs	yr	iph	cfs	cfs	yr	iph	cfs	cfs	
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*	*14*	*15*	*16*	*17*	*18*	*19*	*20*	*21*	*26*	*27*	*28*	*29*	*30*
A1	0.54	0.54	0.45	0.24	0.24	15.00	0.00	15.00	5	4.76	1.16	1.16	10	5.42	1.32	1.32	25	6.35	1.54	1.54	100	7.89	1.92	1.92	SHEET FLOW TO CULVERT A1
A2	13.79	14.33	0.45	6.21	6.45	15.00	0.00	15.00	5	4.76	29.54	30.70	10	5.42	33.65	34.96	25	6.35	39.39	40.93	100	7.89	48.97	50.89	SHEET FLOW TO FUTURE PHASE
B1	0.80	0.80	0.45	0.36	0.36	15.00	0.00	15.00	5	4.76	1.71	1.71	10	5.42	1.95	1.95	25	6.35	2.29	2.29	100	7.89	2.84	2.84	SHEET FLOW TO CULVERT B1
B2	4.68	5.48	0.45	2.11	2.47	15.00	0.00			9.54	20.08	23.51	10	10.40	21.89	25.64	25	11.70	24.64	28.86	100	13.97	29.43	34.46	SHEET FLOW TO FUTURE PHASE
C1	2.68	2.68	0.45	1.21	1.21	15.00	0.00	15.00	5	4.76	5.74	5.74	10	5.42	6.54	6.54	25	6.35	7.65	7.65	100	7.89	9.52	9.52	SHEET FLOW TO FUTURE PHASE
D1	4.77	4.77	0.45	2.15	2.15	15.00	0.00	15.00	5	4.76	10.22	10.22	10	5.42	11.64	11.64	25	6.35	13.62	13.62	100	7.89	16.94	16.94	SHEET FLOW TO CULVERT D1
D2	2.42	7.19	0.45	1.09	3.24	15.00	0.00	15.00	5	4.76	5.18	15.40	10	5.42	5.90	17.54	25	6.35	6.91	20.54	100	7.89	8.59	25.53	SHEET FLOW TO CULVERT D2
D3	21.60	28.79	0.45	9.72	12.96	15.00	0.00	15.00	5	4.76	46.28	61.68	10	5.42	52.70	70.24	25	6.35	61.70	82.23	100	7.89	76.71	102.24	SHEETS FLOP TO EXISTING CREEK/OFFSITE
E1	2.40	2.40	0.45	1.08	1.08	15.00	0.00	15.00	5	4.76	5.14	5.14	10	5.42	5.86	5.86	25	6.35	6.86	6.86	100	7.89	8.52	8.52	SHEET FLOW TO CULVERT E1
E2	1.06	3.46	0.45	0.48	1.56	15.00	0.00	15.00	5	4.76	2.27	7.41	10	5.42	2.59	8.44	25	6.35	3.03	9.88	100	7.89	3.76	12.29	SHEET FLOW TO EXISTING CREEK
E3	7.02	10.48	0.45	3.16	4.72	15.00	0.00	15.00	5	4.76	15.04	22.45	10	5.42	17.13	25.57	25	6.35	20.05	29.93	100	7.89	24.93	37.22	SHEET FLOW TO FUTURE PHASE
E4	14.58	25.06	0.45	6.56	11.28	15.00	0.00	15.00	5	4.76	31.24	53.69	10	5.42	35.57	61.14	25	6.35	41.64	71.58	100	7.89	51.78	88.99	SHEET FLOW TO FUTURE PHASE
F1	6.90	6.90	0.45	3.11	3.11	15.00	0.00	15.00	5	4.76	14.78	14.78	10	5.42	16.83	16.83	25	6.35	19.71	19.71	100	7.89	24.50	24.50	SHEET FLOW TO FUTURE PHASE
G1	8.72	8.72	0.45	3.92	3.92	15.00	0.00	15.00	5	4.76	18.68	18.68	10	5.42	21.28	21.28	25	6.35	24.91	24.91	100	7.89	30.97	30.97	SHEET FLOW TO CULVERT G1
G2	3.34	12.06	0.45	1.50	5.43	15.00	0.00	15.00	5	4.76	7.16	25.84	10	5.42	8.15	29.42	25	6.35	9.54	34.45	100	7.89	11.86	42.83	SHEET FLOW TO CULVERT G2
H1	0.75	0.75	0.45	0.34	0.34	15.00	0.00	15.00	5	4.76	1.61	1.61	10	5.42	1.83	1.83	25	6.35	2.14	2.14	100	7.89	2.66	2.66	SHEET FLOW TO CULVERT H1
H2	0.38	1.13	0.45	0.17	0.51	15.00	0.00	15.00	5	4.76	0.81	2.42	10	5.42	0.93	2.76	25	6.35	1.09	3.23	100	7.89	1.35	4.01	SHEET FLOW TO EXISTING POND
H3	2.44	3.57	0.45	1.10	1.61	15.00	0.00	15.00	5	4.76	5.23	7.65	10	5.42	5.95	8.71	25	6.35	6.97	10.20	100	7.89	8.66	12.68	SHEET FLOW TO EXISTING POND
I1	6.64	6.64	0.45	2.99	2.99	15.00	0.00	15.00	5	4.76	14.23	14.23	10	5.42	16.20	16.20	25	6.35	18.97	18.97	100	7.89	23.58	23.58	SHEEV FLOW TO CULVERT I1
I2	8.13	14.77	0.45	3.66	6.65	15.00	0.00	15.00	5	4.76	17.42	31.64	10	5.42	19.84	36.04	25	6.35	23.22	42.19	100	7.89	28.87	52.45	SHEET FLOW TO EXISTING CHANNEL MATLOCK DR.
OS1	5.22	5.22	0.45	2.35	2.35	15.00	0.00	15.00	5	4.76	11.18	11.18	10	5.42	12.74	12.74	25	6.35	14.91	14.91	100	7.89	18.54	18.54	SHEET FLOW TO FUTURE PHASE
OS2	4.18	9.40	0.45	1.88	4.23	15.00	0.00	15.00	5	4.76	8.96	20.14	10	5.42	10.20	22.93	25	6.35	11.94	26.85	100	7.89	14.84	33.38	SHEET FLOW TO EXISTING CHANNEL MATLOCK DR.
OS3	7.34	16.74	0.45	3.30	7.53	15.00	0.00	15.00	5	4.76	15.73	35.86	10	5.42	17.91	40.84	25	6.35	20.97	47.81	100	7.89	26.07	59.45	SHEET FLOW TO FUTURE PHASE

PROPOSED ROAD CROSSING CULVERT TABLE-PHASE 2

CUVERT MATERIAL	CMP	MANNINGS "N"	0.024
COVER	2.0'-3.0'	ENTRANCE TYPE	S.E.T.

CULVERT ID	25-YR FLOW (cfs)	100-YR FLOW (cfs)	PROSED CULVERT SIZE (inches)
A1	1.54	1.92	24
B1	2.29	2.84	24
D1	27.90*	34.7*	36
D2	6.91	8.59	24
E1	6.86	8.52	24
G1	24.91	30.97	36
G2	34.45	42.83	36
H1	2.14	2.66	24
I1	18.97	23.58	24
OS1	45.99*	52.56	36
OS2	10.85*	13.49*	24

*NOTE:
1. CULVERT D1 25-YR AND 100-YR FLOW IS A COMBINNATION OF DRAINAGE AREA D1 AND PHASE ONE DRAINAGE AREA D1.

2. CULVERT OS1 25-YR AND 100-YR FLOW REPRESENTS DRAINAGE AREA C2 FROM PHASE 1.

3. CULVERT OS2 25-YR AND 100-YR FLOW REPRESENTS DRAINAGE AREA C1 FROM PHASE 1.

LEGEND

MAJOR DRAINAGE DIVIDE

MINOR DRAINAGE DIVIDE (FOR DRIVEWAY CULVERT SIZING)

FLOW ARROW

CMP CULVERT

BAIRD, HAMPTON & BROWN
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ROLLING CREEK RANCH PHASE 2
RESIDENTIAL DEVELOPMENT
HOOD COUNTY, TEXAS

DRAINAGE AREA MAP

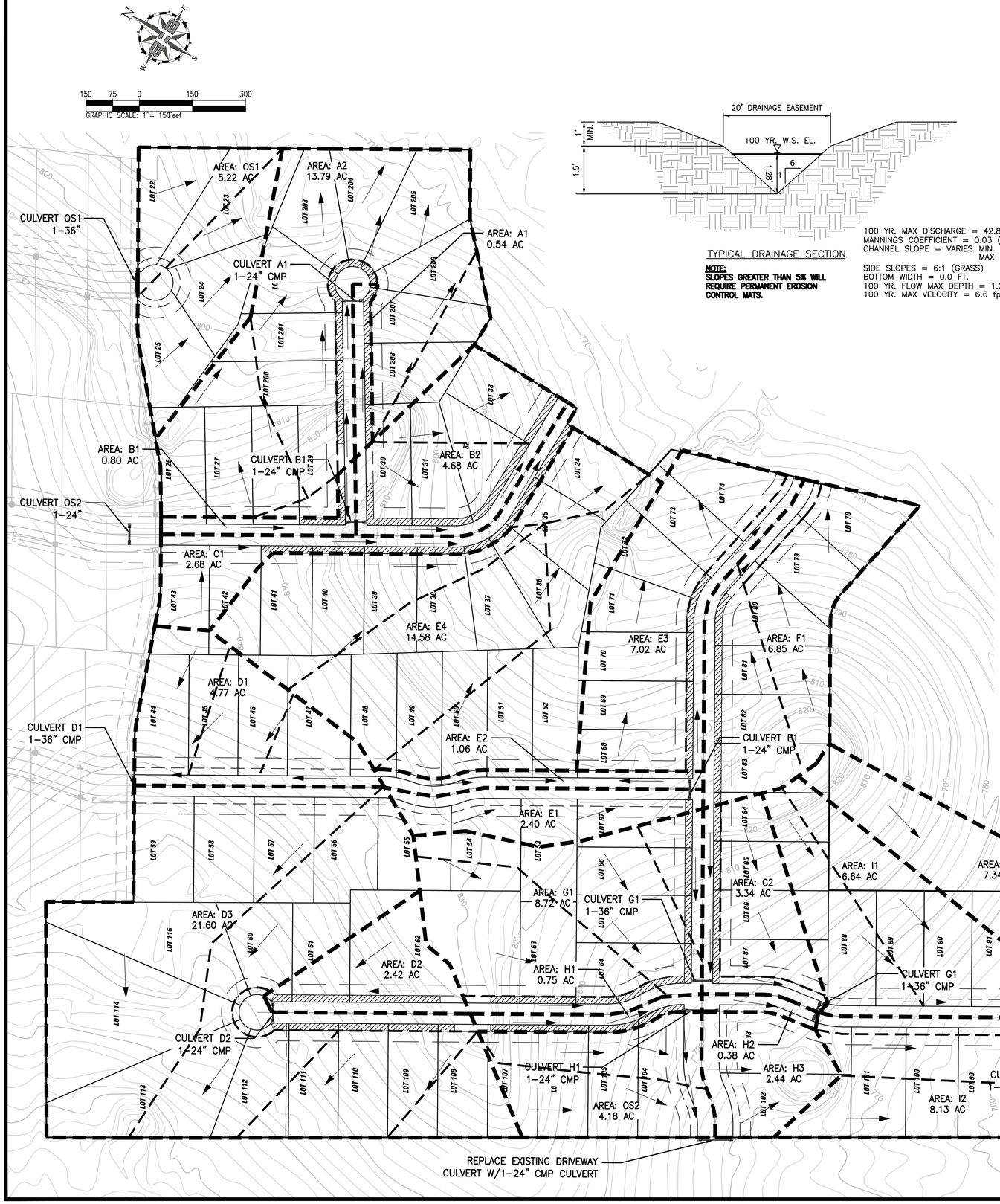
NO.	DESCRIPTION	DATE

STATE OF TEXAS
TRACY E. STREVEY III
89487
LICENSED PROFESSIONAL ENGINEER
1/09/17

PROJECT NUMBER:	2016.121.000		
DATE:	1-19-17	DRAWN BY:	CAW
DESIGN BY:	CAW	CHECKED BY:	TS

SHEET 6

8.09.2017 10:14AM E:\2016.000.000\2016.121.000 – Rolling Creek Ranch\01 CADD\04 Civil\121DrainagePhase2.dwg DAM

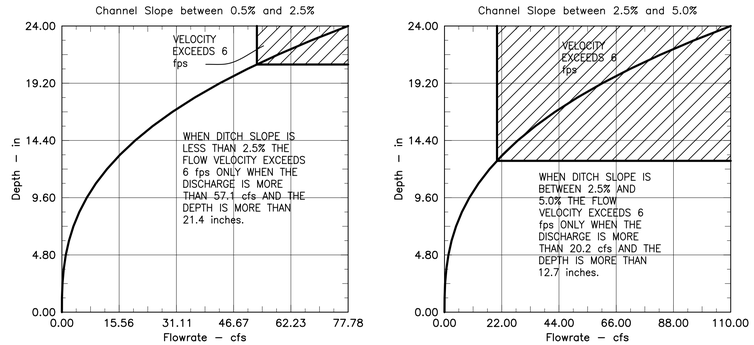


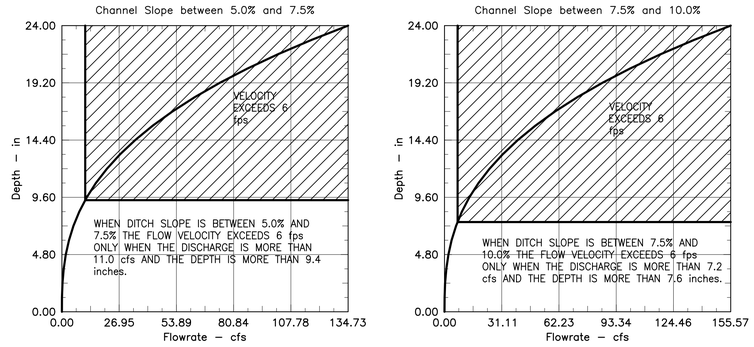
TYPICAL DRAINAGE SECTION

NOTE:
SLOPES GREATER THAN 5% WILL REQUIRE PERMANENT EROSION CONTROL MATS.

100 YR. MAX DISCHARGE = 42.83 cfs
MANNINGS COEFFICIENT = 0.03 (GRASS)
CHANNEL SLOPE = VARIES MIN. 1.0% MAX 6.1%
SIDE SLOPES = 6:1 (GRASS)
BOTTOM WIDTH = 0.0 FT.
100 YR. FLOW MAX DEPTH = 1.28'
100 YR. MAX VELOCITY = 6.6 fps

ROADWAY DITCH RATING CURVES





PROPOSED RESIDENTIAL CULVERT DRIVEWAY TABLE			
CUVERT MATERIAL	CMP	MANNINGS "N"	0.024
COVER	1.0'-3.0'	ENTRANCE TYPE	S.E.T.
LOTS	PROPOSED CULVERT SIZE		
22-31	18"		
32-36	24"		
37-74	18"		
78-80	24"		
81-115	18"		
200-208	18"		

LEGEND

- MAJOR DRAINAGE DIVIDE
- MINOR DRAINAGE DIVIDE (FOR DRIVEWAY CULVERT SIZING)
- FLOW ARROW
- CMP CULVERT
- EROSION CONTROL

NOTE:
ARES DESIGNATED FOR EROSION CONTROL SHALL RECEIVE PERMANENT EROSION CONTROL MATS.

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TBPE Firm #44

ROLLING CREEK RANCH PHASE 2
RESIDENTIAL DEVELOPMENT
HOOD COUNTY, TEXAS

DRIVEWAY AND ROADSIDE DITCH PLAN

NO.	DESCRIPTION	DATE

STATE OF TEXAS
TRACY E. STREVEY III
89487
LICENSED PROFESSIONAL ENGINEER
1/09/17

PROJECT NUMBER:	2016.121.000		
DATE:	1-19-17	DRAWN BY:	CAW
DESIGN BY:	CAW	CHECKED BY:	TS

SHEET 7

STANDARD CONSTRUCTION SPECIFICATIONS

GATE VALVES

1. ALL GATE VALVES SHALL BE "WEDGE TYPE" WITH AWWA APPROVED CAST IRON FITTINGS SECURED WITH STAR GRIPS OR MEGA LUGS ON FITTINGS. ALL GATE VALVES SHALL BE CLOCKWISE CLOSE.
2. ALL FITTINGS SHALL BE COMPRESSION TYPE, NO FLARED FITTINGS SHALL BE USED.
3. USE SQUARE HEAD VALVES IN LIEU OF WHEEL VALVES. (INCLUDING 2 INCH VALVES) USE CURB AND ANGLE STOPS FOR THE 2–INCH AND SMALLER PIPE. ALL FITTINGS TO BE BRASS.
4. GATE VALVE BOXES SHALL BE FITTED WITH LID LINERS TO PREVENT DIRT AND INFILTRATION. OPERATING NUT WILL BE CENTERED AND ACCESSIBLE BY VALVE WRENCH.
5. ALL VALVES MORE THAN 3 FEET DEEP TO OPERATING NUT SHALL BE FURNISHED WITH AN EXTENSION.
6. ALL VALVES SHALL HAVE A "V" STAMPED ON THE ADJACENT CURB WITH THE POINT OF THE "V" POINTED IN THE DIRECTION OF THE VALVE.
7. ALL VALVES SHALL HAVE AN 24" X 24" X 6" CONCRETE PAD, REINFORCED WITH #3 REBAR, SURROUNDING THE TOP OF THE VALVE BOX.
8. ALL VALVE LIDS SHALL BE PAINTED WITH THE FOLLOWING COLOR FOR IDENTIFICATION

IN–LINE	BLUE
FIRE HYDRANTS	BLACK
END OF LINE	WHITE

WATER MAINS

1. WATER MAINS SHALL BE DR–18 (C–900). ANY EXCEPTIONS MUST BE PREVIOUSLY AUTHORIZED IN WRITING BY AMUD.
2. WATER MAIN PIPING SHALL BE LAID WITH THE WRITING ON THE PIPE FACING UP.
3. WATER MAINS SHALL HAVE A MINIMUM COVER OF 42 INCHES, EVEN WHEN LOCATED ON THE BACKSLOPE OR NEAR THE PROPERTY LINE.
4. WATER MAINS SHALL BE MARKED UNDER THE GROUND SURFACE (ONE TO TWO FEET ABOVE THE PIPE) BY PLACING A 2" WIDE METALIZED PLASTIC TAPE WITH THE WORD "WATER" PRINTED ON THE TAPE.
5. WATER MAINS TO BE INSTALLED WITH A (STRANDED #12 AWG THWN OR THHN GAS AND OIL RESISTANT) TRACER WIRE AFFIXED TO THE TOP OF THE PIPE AND THE WIRE EXTENDED UP AND THROUGH GATE VALVE BOXES. MAKE SURE WIRES ARE ACCESSIBLE AT GATE VALVE BOXES.
6. ALL TAPPING SLEEVES WILL BE FULL CIRCLE STAINLESS STEEL.

WATER MAIN EMBEDMENT

DEPTH BELOW PIPE	–	3" MIN. IN SOIL, 6" MIN. IN ROCK
HEIGHT ABOVE PIPE	–	12" MIN.
WIDTH	–	O.D. + 18" (MAX.)
MATERIAL	–	CUSHION SAND, PEA GRAVEL, GRADE 5 OR 6 LIMESTONES
DENSITY	–	95% STANDARD PROCTOR DENSITY UNDER PAVEMENT
	–	90% STANDARD PROCTOR DENSITY OUTSIDE PAVEMENT

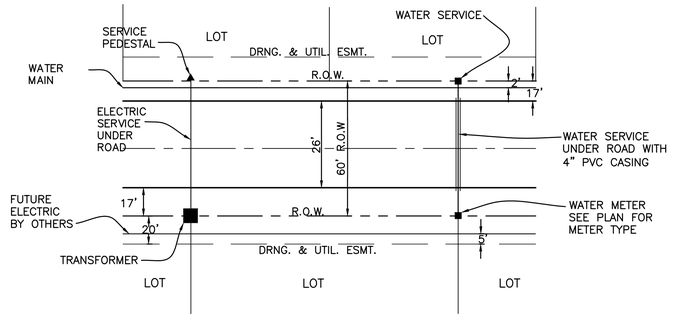
7. EXCAVATED DITCHES SHALL REMAIN OPEN FOR INSPECTION. PIPING AND TRACER WIRE SHALL BE INSPECTED AND APPROVED PRIOR TO BEING COVERED. TRACER TAPE SHALL BE PLACED AND VISIBLE FOR INSPECTION PRIOR TO PLACEMENT OF FINAL COVER.
8. ALL DITCHES SHALL BE COMPACTED IN A MAXIMUM OF 8 INCH LIFTS TO PROPER DENSITY. (SEE WATER MAIN EMBEDMENT CRITERIA ABOVE).
9. ALL INSTALLATIONS OF WATER MAINS WILL REQUIRE 150–PSI HYDROSTATIC TEST OF A 4 HOUR DURATION AND WATER QUALITY TESTING BY AN APPROVED LAB.
10. EVERY 1000 FEET OR PORTION THEREOF OF ALL WATER MAINS SHALL HAVE A WATER QUALITY TEST PERFORMED.

FIRE HYDRANTS

1. ALL FIRE HYDRANT ASSEMBLIES SHALL HAVE A VALVE AND ANCHOR COUPLING ATTACHMENT.
2. FIRE HYDRANTS SHALL HAVE A 36" X 36" X 6" CONCRETE PAD INSTALLED 6 TO 12 INCHES BELOW FINISHED GRADE. REINFORCE WITH #3 BARS ON 6–INCH CENTERS.
3. FIRE HYDRANTS SHALL BE LOCATED AT THE PROPERTY LINE AND AWAY FROM ALL DRIVE APPROACHES AND STREET RADIUS AS PRACTICAL.
4. FIRE HYDRANTS SHALL HAVE A MINIMUM OF 18 INCHES CLEARANCE FROM THE BOTTOM OF THE CAP NUT TO THE FLANGE OF THE FIRE HYDRANT.
5. FIRE HYDRANTS SHALL BE PAINTED RED.
6. FIRE HYDRANTS SHALL BE M&H.

SERVICE LINES

1. METER BOXES SHALL BE RECTANGULAR PLASTIC, BLACK ON THE OUTSIDE AND #DFW PLASTICS #1500 SB AMR–DOUBLE AND PLASTICS #1200 SB AMR–SINGLE.
2. ALL U BRANCHES / BULL HEADS WILL HAVE A BALL VALVE IN FRONT OF THE CONNECTION.
3. ALL WATER SERVICE LINES RUNNING UNDER THE STREET (LONG SIDE OF STREET) WILL BE ENCASED IN 3" PVC PIPE. THE CASING WILL EXTEND 3–FEET FROM EACH SIDE OF THE EDGE OF PAVEMENT.
4. EACH LOT SHALL HAVE A MINIMUM 1" COPPER SERVICE LINE.
5. ALL SINGLE SERVICES SHALL HAVE BRASS OR BRONZE COMPRESSION TYPE CURB STOPS / ANGLE STOPS WITH LOCKS INSTALLED. (FORD #KV43–332W–G OR #KV43–342W–G OR EQUIVALENT)
6. ALL SERVICE LINES SHALL BE INSTALLED USING A DOUBLE STRAP BRONZE TAPPING SADDLE.



UTILITY LOCATION DETAIL

NOTE: ALL WATER SERVICES SHOWN ARE DOUBLE SERVICES UNLESS OTHERWISE NOTED.

WATER MAIN CROSSINGS THROUGH CREEKS NEED 12" CONCRETE CAP OVER THE WIDTH OF THE CREEK.

LEGEND

- PROPERTY LINE / R.O.W. LINE
- EASEMENT LINE
- RIGHT OF WAY CENTERLINE
- 30' BUILDING SETBACK
- E — E — UNDERGROUND ELECTRIC
- W — W — UNDERGROUND WATER
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- TRANSFORMER
- SERVICE PEDESTAL
- PULL BOX

BAIRD, HAMPTON & BROWN
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TBPE Firm #44
TBPLS FIRM #10011300

ROLLING CREEK RANCH PHASE 2
RESIDENTIAL DEVELOPMENT
HOOD COUNTY, TEXAS

WATER PLAN-NOTES

NO.	DESCRIPTION	DATE

STATE OF TEXAS
TRACY E. STREVEY III
68487
LICENSED
PROFESSIONAL ENGINEER
1/09/17

PROJECT NUMBER:	2016.121.000		
DATE:	1-19-17	DRAWN BY:	CAW
DESIGN BY:	CAW	CHECKED BY:	TS

SHEET
8

LEGEND

- PROPERTY LINE / R.O.W. LINE
- EASEMENT LINE
- RIGHT OF WAY CENTERLINE
- 30' BUILDING SETBACK
- E — E — UNDERGROUND ELECTRIC
- W — W — UNDERGROUND WATER
- FIRE HYDRANT
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TBPE Firm # 44
TBPLS FIRM # 10011300

ROLLING CREEK RANCH PHASE 2
RESIDENTIAL DEVELOPMENT
HOOD COUNTY, TEXAS

WATER PLAN-OVERALL

NO.	DESCRIPTION	DATE

STATE OF TEXAS
TRACY E. STREVEY III
89487
LICENSED PROFESSIONAL ENGINEER
1/09/17

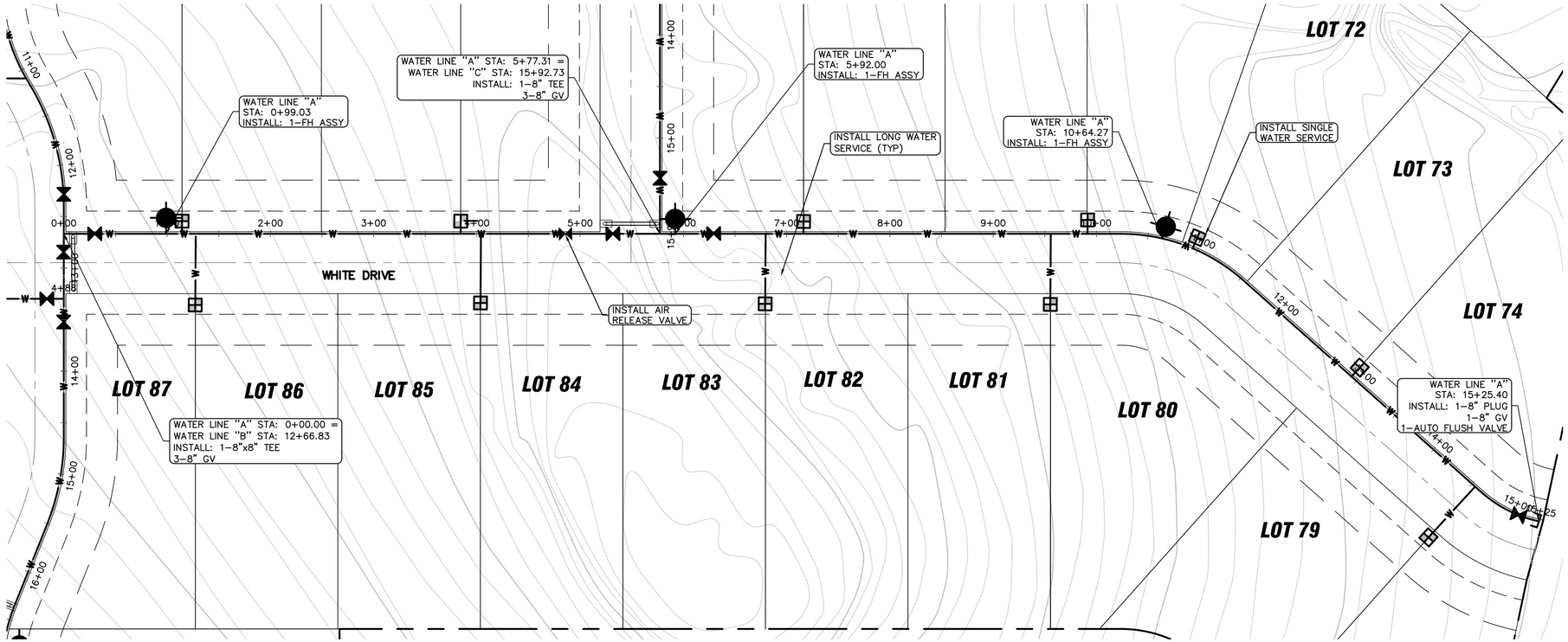
PROJECT NUMBER:	2016.121.000		
DATE:	1-19-17	DRAWN BY:	CAW
DESIGN BY:	CAW	CHECKED BY:	TS

SHEET
9

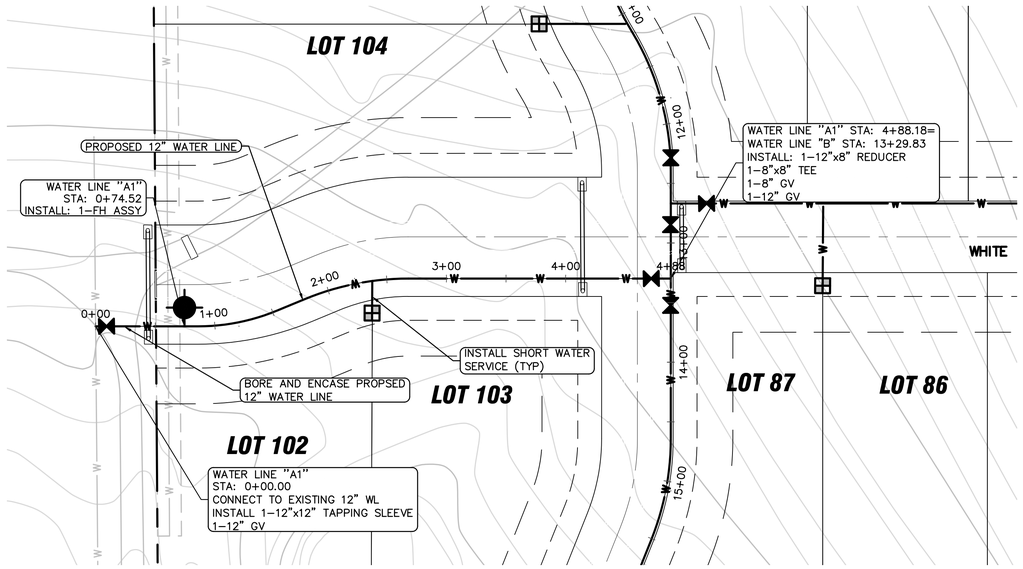
8.09.2017 10:14AM E:\2016.000.000\2016.121.000 - Rolling Creek Ranch\01 CADD\04 Civil\121WaterPlanPhase2.dwg OVERALL

60 30 0 60 120

GRAPHIC SCALE: 1" = 60 Feet



WATER LINE "A"



WATER LINE "A1"

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TBPLS FIRM # 10011300

ROLLING CREEK RANCH PHASE 2
RESIDENTIAL DEVELOPMENT

HOOD COUNTY, TEXAS

WATER PLAN-WATER LINE A AND A1

NO.	DESCRIPTION	DATE

STATE OF TEXAS
TRACY E. STREVEY III
89487
LICENSED
PROFESSIONAL ENGINEER

1/09/17

PROJECT NUMBER:	2016.121.000		
DATE:	1-19-17	DRAWN BY:	CAW
DESIGN BY:	CAW	CHECKED BY:	TS

SHEET
10

8.09.2017 10:14AM E:\2016.000.000\2016.121.000 – Rolling Creek Ranch\01 CADD\04 Civil\12 WaterPlanPhase2.dwg WATER LINE "A"

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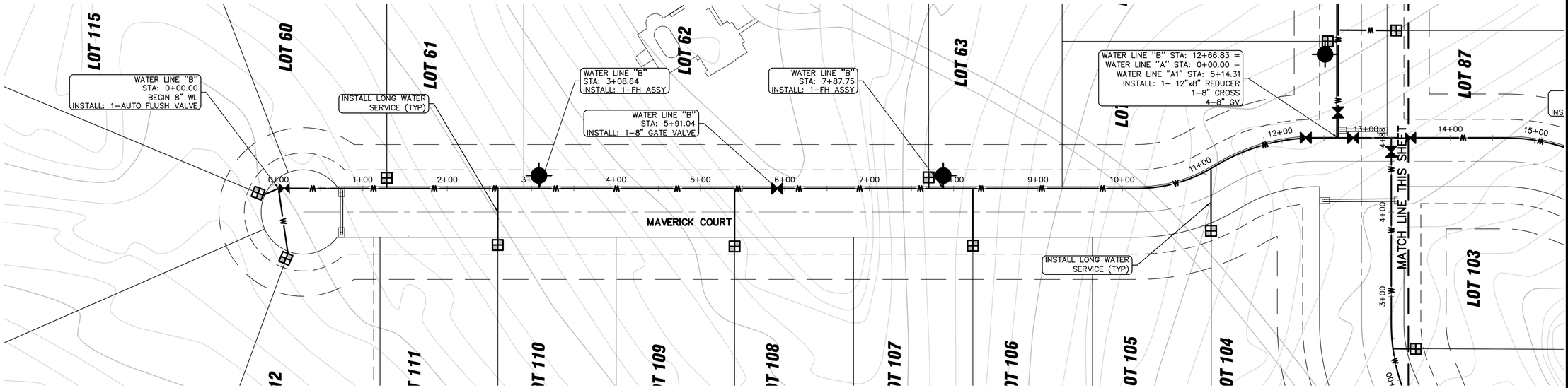
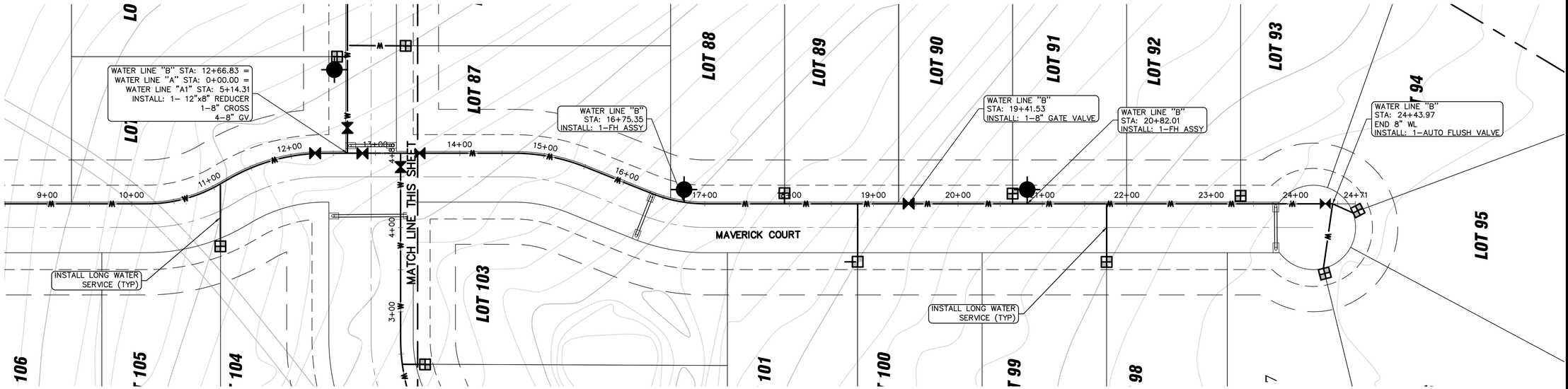
GRAPHIC SCALE: 1"= 60 Feet



WATER LINE "B" – STA: 0+00 TO 13+50



WATER LINE "B" – STA: 13+50 TO 24+71

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ROLLING CREEK RANCH PHASE 2
RESIDENTIAL DEVELOPMENT

HOOD COUNTY, TEXAS

WATER PLAN-WATER LINE B

NO.	DESCRIPTION	DATE

STATE OF TEXAS
TRACY E. STREVEY III
89487
REGISTERED PROFESSIONAL ENGINEER

1/09/17

PROJECT NUMBER:	2016.121.000		
DATE:	1-19-17	DRAWN BY:	CAW
DESIGN BY:	CAW	CHECKED BY:	TS

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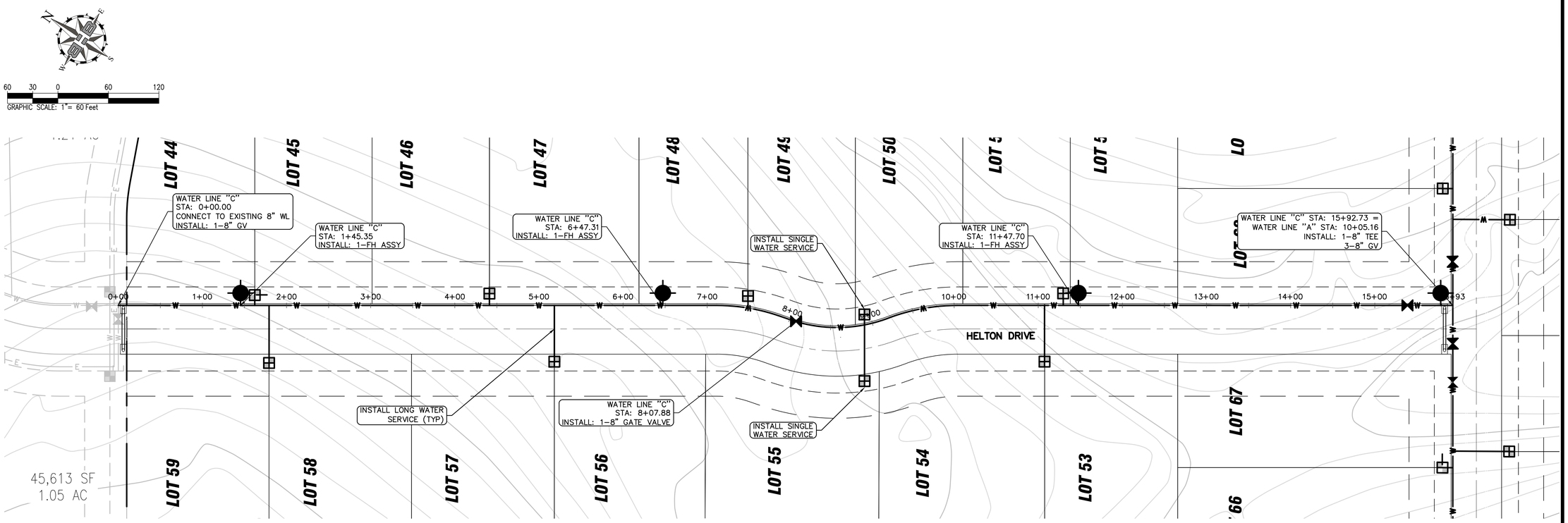
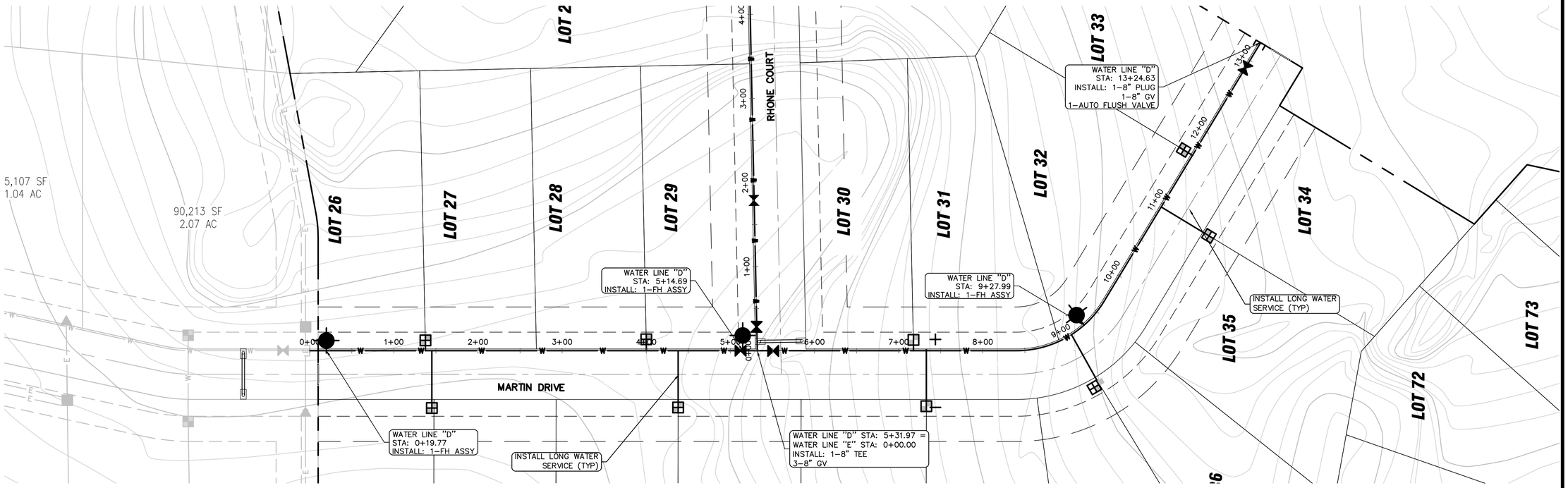
11

8.09.2017 10:15AM E:\2016.000.000\2016.121.000 - Rolling Creek- Ranch\01 CADD\04 Civil\121WaterPlanPhase2.dwg WATER LINE "B"



WATER LINE "C"



WATER LINE "D"

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ROLLING CREEK RANCH PHASE 2
RESIDENTIAL DEVELOPMENT
HOOD COUNTY, TEXAS

WATER PLAN-WATER LINE
C AND D

NO.	DESCRIPTION	DATE

STATE OF TEXAS
TRACY E. STREVEY III
89487
LICENSED
PROFESSIONAL ENGINEER
1/09/17

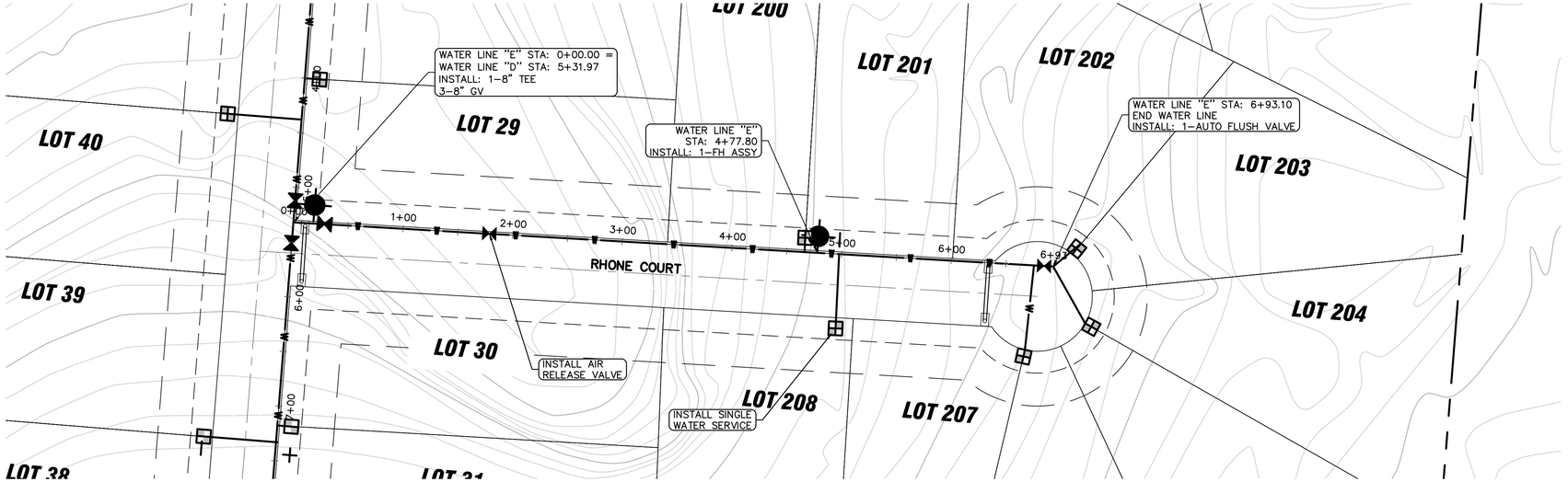
PROJECT NUMBER:	2016.121.000		
DATE:	1-19-17	DRAWN BY:	CAW
DESIGN BY:	CAW	CHECKED BY:	TS

SHEET
12

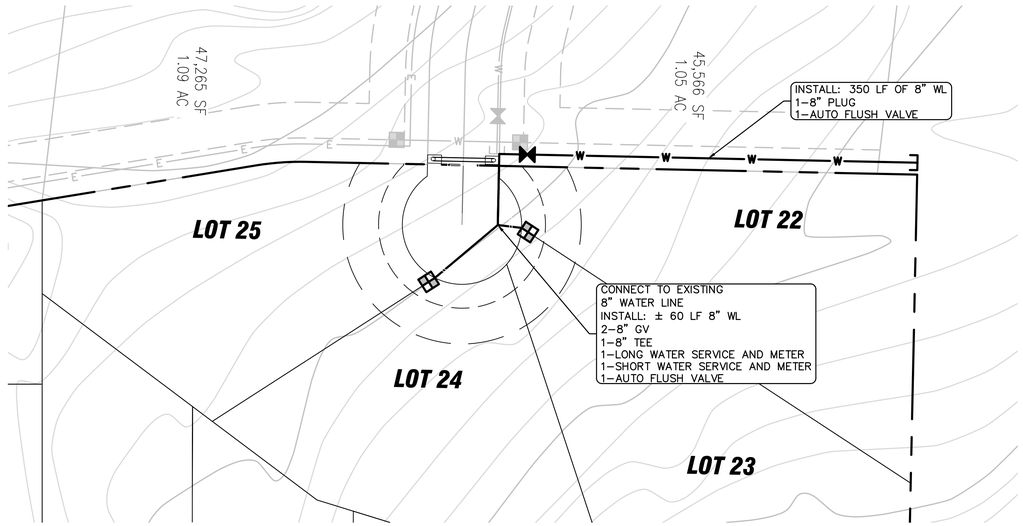
8.09.2017 10:15AM E:\2016.000.000\2016.121.000 - Rolling Creek Ranch\01 CADD\04 Civil\12\WaterPlanPhase2.dwg WATER LINE "C-D"

60 30 0 60 120

GRAPHIC SCALE: 1" = 60 Feet



WATER LINE "E"



KENYON COURT EXTENSION

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TBPLS FIRM #10011300

ROLLING CREEK RANCH PHASE 2
RESIDENTIAL DEVELOPMENT
HOOD COUNTY, TEXAS

WATER PLAN-E, AND KENYON COURT EXTENSION

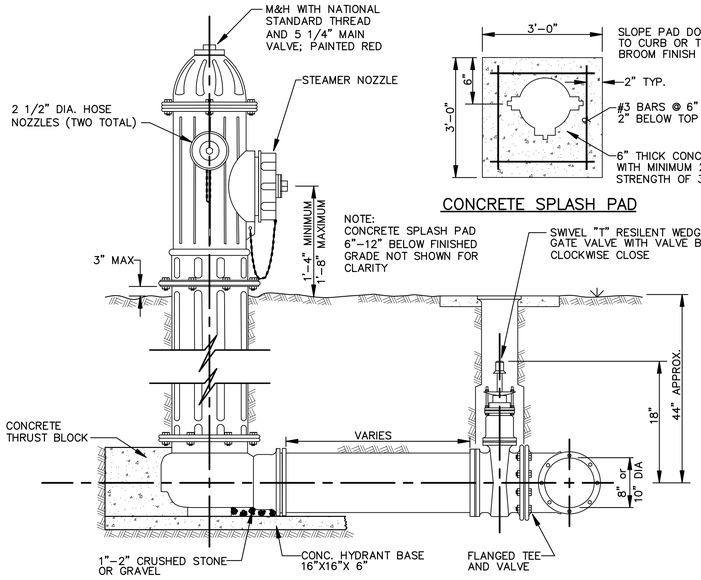
NO.	DESCRIPTION	DATE

STATE OF TEXAS
TRACY E. STREVEY III
69487
LICENSED
PROFESSIONAL ENGINEER

1/09/17

PROJECT NUMBER:	2016.121.000		
DATE:	1-19-17	DRAWN BY:	CAW
DESIGN BY:	CAW	CHECKED BY:	TS

SHEET
13



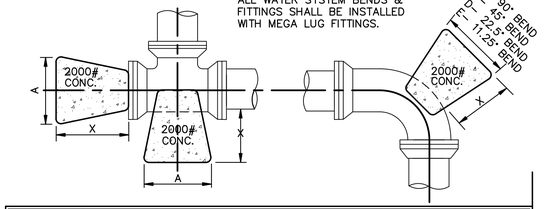
STANDARD FIRE HYDRANT DETAIL

NOT TO SCALE

CONCRETE SPLASH PAD

REFERENCE NCTCOG DRAWINGS 4010A–4010C, 4020 AND 4040

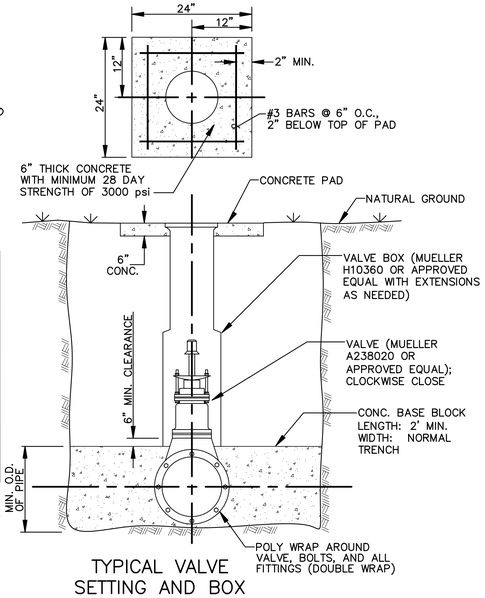
ALL WATER SYSTEM BENDS & FITTINGS SHALL BE INSTALLED WITH MEGA LUG FITTINGS.



PIPE SIZE	A PLUGS & TEES	B 90° BENDS	C 45° BENDS	D 22.5° BENDS	E 11.25° BENDS	X
4" & 6"	2'–0"	2'–0"	1'–6"	1'–0"	1'–0"	1'–6"
8"	2'–0"	2'–0"	1'–6"	1'–0"	1'–0"	1'–6"
10"	2'–6"	3'–6"	2'–0"	1'–6"	1'–0"	1'–6"
12"	2'–6"	3'–6"	2'–0"	1'–6"	1'–0"	1'–6"
16"	4'–0"	4'–6"	3'–0"	2'–0"	1'–6"	2'–0"
20"	4'–0"	6'–0"	3'–6"	2'–0"	1'–6"	2'–0"

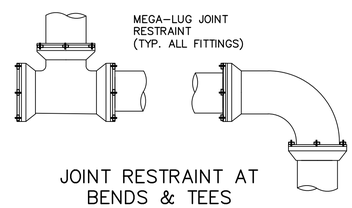
DIMENSIONS OF CONCRETE FOR THRUST BLOCKS AT FITTINGS

NOT TO SCALE



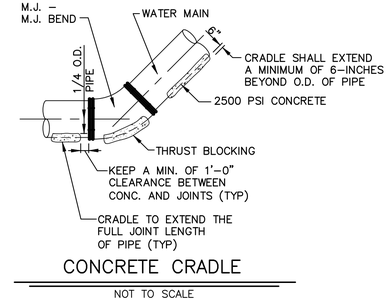
TYPICAL VALVE SETTING AND BOX

NOT TO SCALE



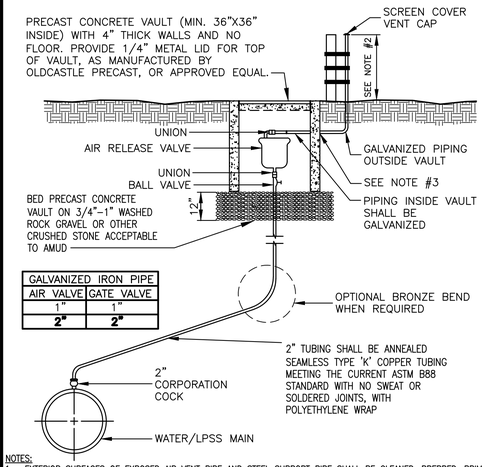
JOINT RESTRAINT AT BENDS & TEES

NOT TO SCALE



CONCRETE CRADLE

NOT TO SCALE

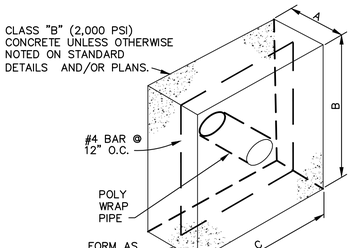


GALVANIZED IRON PIPE	
AIR VALVE	GATE VALVE
1"	1"
2"	2"

NOTES:
1. EXTERIOR SURFACES OF EXPOSED AIR VENT PIPE AND STEEL SUPPORT PIPE SHALL BE CLEANED, PREPPED, PRIMED AND PAINTED WITH RUST–OLEUM SAFETY BLUE ACRYLIC PAINT, OR APPROVED EQUAL.
2. THE AIR VENT PIPE SHALL BE 2' MINIMUM IN HEIGHT AND SHALL BE SUPPORTED BY A 3" STEEL PIPE, WHICH IS TO BE SET IN 2500 P.S.I. CONCRETE, FILLED WITH CONCRETE AND SUPPORTED WITH 3 STAINLESS STEEL CLAMPS.
3. CONCRETE VAULT PENETRATION SHALL BE CORE BIT DRILLED. VOID SHALL BE FILLED BY PRESS–SEAL GASKET CONNECTOR MEETING ASTM C923, OR APPROVED EQUAL.

AIR RELEASE DETAIL

NOT TO SCALE



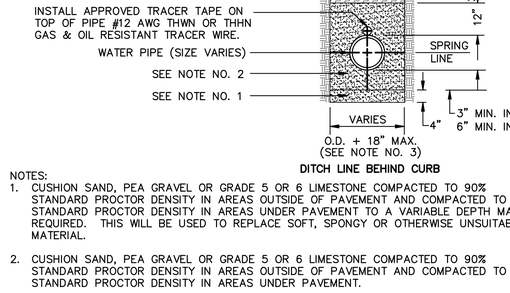
NOTE: KEEP CONCRETE CLEAR OF PIPE JOINTS & BOLTS.

PIPE NOMINAL DIA. (in.)	BENDS		90°	45°	22–1/2°	11–1/4°
6	*VOL. REQ'D.	C.F.	28.27	22.61	11.33	5.65
	A	FT.	1.75	1.5	1.0	0.75
	B	FT.	4.0	3.88	3.36	2.75
	C	FT.	4.0	3.88	3.36	2.75
8	*VOL. REQ'D.	C.F.	50.27	40.21	20.11	10.05
	A	FT.	2.0	1.75	1.5	1.0
	B	FT.	5.0	4.8	3.66	3.2
	C	FT.	5.0	4.8	3.66	3.2
10	*VOL. REQ'D.	C.F.	78.54	62.83	31.41	15.71
	A	FT.	2.25	2.0	1.75	1.5
	B	FT.	5.9	5.6	4.25	3.25
	C	FT.	5.9	5.6	4.25	3.25

*VOLUME CALCULATED ON THE BASIS OF CONCRETE REACTING THRUST ON THE RESPECTIVE BENDS UNDER AN INTERNAL PRESSURE OF 150 PSIG AT THE RATE OF 150 LB. WT. PER CU. FT. OF CONCRETE.

VERTICAL TIE–DOWN BLOCK DETAIL

NOT TO SCALE

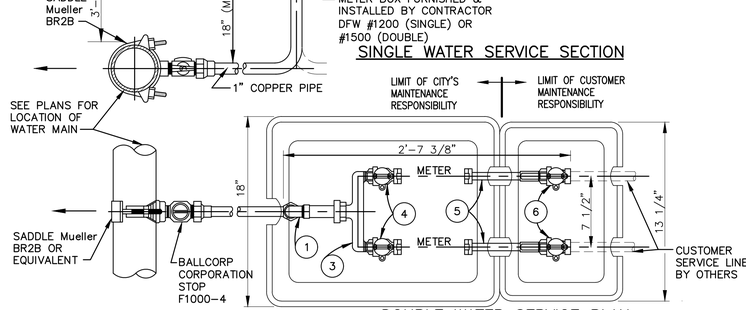


DITCH LINE BEHIND CURB

NOTES:
1. CUSHION SAND, PEA GRAVEL OR GRADE 5 OR 6 LIMESTONE COMPACTED TO 90% STANDARD PROCTOR DENSITY IN AREAS OUTSIDE OF PAVEMENT AND COMPACTED TO 95% STANDARD PROCTOR DENSITY IN AREAS UNDER PAVEMENT TO A VARIABLE DEPTH MAY BE REQUIRED. THIS WILL BE USED TO REPLACE SOFT, SPONGY OR OTHERWISE UNSUITABLE MATERIAL.
2. CUSHION SAND, PEA GRAVEL OR GRADE 5 OR 6 LIMESTONE COMPACTED TO 90% STANDARD PROCTOR DENSITY IN AREAS OUTSIDE OF PAVEMENT AND COMPACTED TO 95% STANDARD PROCTOR DENSITY IN AREAS UNDER PAVEMENT.
3. WIDTH OF TRENCH AT TOP OF PIPE SHALL NOT EXCEED O.D. OF PIPE PLUS 18 INCHES.

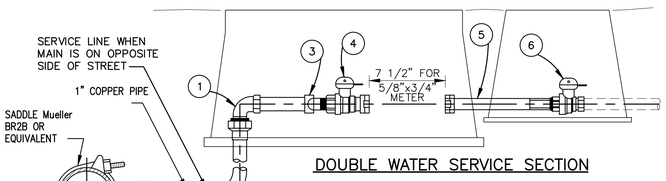
WATER PIPE EMBEDMENT DETAIL

NOT TO SCALE

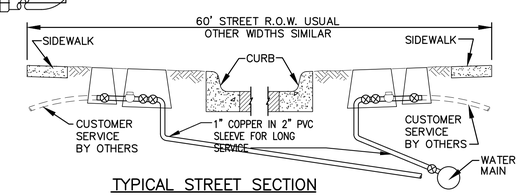


SINGLE WATER SERVICE SECTION

DOUBLE WATER SERVICE PLAN



DOUBLE WATER SERVICE SECTION



TYPICAL STREET SECTION

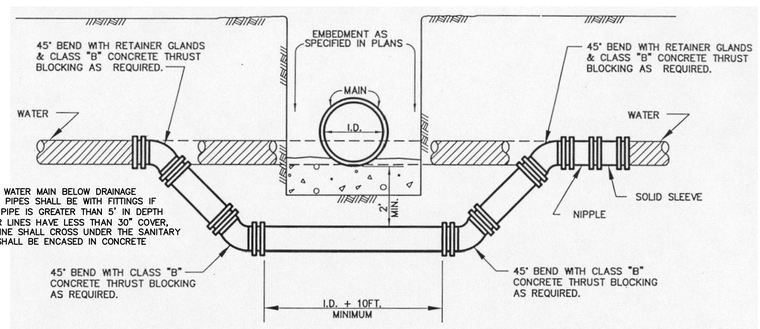
*ALL METER BOX LIDS SHALL BE BLUE
–SINGLE SERVICE BOXES SHALL BE 18" IN DIAMETER
–DOUBLE SERVICE BOXES SHALL BE 24" IN DIAMETER

ITEM NO.	QUANTITY SINGLE	QUANTITY DOUBLE	SIZE	DESCRIPTION	PART NUMBER FORD	PART NUMBER MUELLER
1.	1	1	1"	90° BRASS ELBOW, CTS X M.I.P., (QTR. BEND)	L–48–44	330 H 15530
2.	1	1	1"	BALLVALVE CB. STOP, F.I.P. X F.I.P.	B11–444WR	330 B 20200
3.	1	1	1"x3/4"x7 1/2"	U–BRANCH	U88–43	H 15362
4.	1	2	3/4"	LOCKABLE BALLVALVE CB. STOP, F.I.P. X METER YOLK	B13–322W B13–322W	250 B 24351–3
5.	1	2	3/4"x8 1/2"	METER COUPLING BALLVALVE CB. STOP, F.I.P. X F.I.P.	C38–23–8.5	215 H 10890–99029
6.	1	2	3/4"	BALLVALVE CB. STOP, F.I.P. X F.I.P.	B11–333WR	250 B 20200–3
7.	1		1"x3/4"	BRASS REDUCER BUSHING (REDUCING SPUD MIP X MIP)	–	502464
8.	1		3/4"	ALL THREAD BRASS NIPPLE	–	–

NOTES:
1. IF SERVICE IS INSTALLED AHEAD OF CURB AND GUTTER, CUT AND SHAPE PIPE TO FIT POSITION SHOWN BUT BEND DOWN ABOUT 5 INCHES TO MINIMIZE CHANCES OF DAMAGE DURING CONSTRUCTION OF CURB AND GUTTER. SERVICE LINE COVER MINIMUM 24 INCHES, UNDER STREET SUBGRADE AND MINIMUM 12 INCHES UNDER BOTTOM OF CURB AND GUTTER.
2. CONTRACTOR FURNISHES ALL PARTS LISTED AT HIS EXPENSE. ALL ITEMS SHALL BE INSTALLED BY CONTRACTOR EXCEPT ITEMS 5 AND 6 WHICH WILL BE INSTALLED BY CITY FORCES.

WATER SERVICES

NOT TO SCALE



NOTE:
1. LOWERING OF WATER MAIN BELOW DRAINAGE CULVERTS OR PIPES SHALL BE WITH FITTINGS IF COVER OVER PIPE IS GREATER THAN 5' IN DEPTH
2. WHERE WATER LINES HAVE LESS THAN 30" COVER, THE WATER LINE SHALL CROSS UNDER THE SANITARY SEWER AND SHALL BE ENCASED IN CONCRETE

WATER MAIN CROSSING DETAIL

NOT TO SCALE

BAIRD, HAMPTON & BROWN
ENGINEERING & SURVEYING
6300 Ridglea Place, Suite 700
Fort Worth, TX 76116
817.338.1277
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mail@bhbinc.com
TBPE Firm # 44
TBPLS FIRM # 10011300

ROLLING CREEK RANCH PHASE 2
RESIDENTIAL DEVELOPMENT
HOOD COUNTY, TEXAS

WATER LINE DETAILS (1 OF 2)

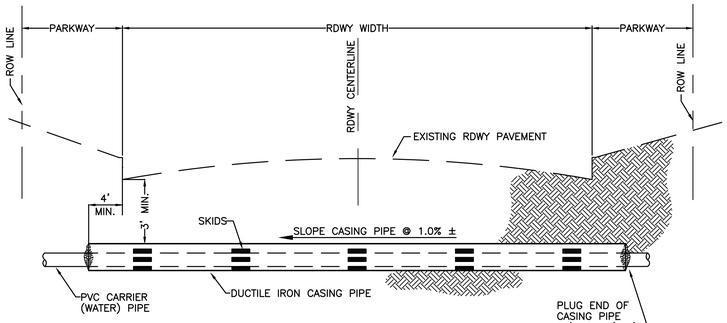
NO.	DESCRIPTION	DATE

STATE OF TEXAS
TRACY E. STREVEY III
89487
LICENSED PROFESSIONAL ENGINEER
1/09/17

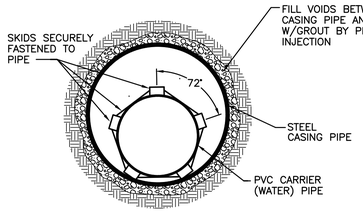
PROJECT NUMBER:	2016.121.000	
DATE:	1-19-17	DRAWN BY: CAW
DESIGN BY: CAW		CHECKED BY: TS

SHEET 14

8.09.2017 10:15AM E:\2016.000.000\2016.121.000 – Rolling Creek Ranch\01 CADD\04 Civil\121DetailsPhase2.dwg waterdetails



PROFILE

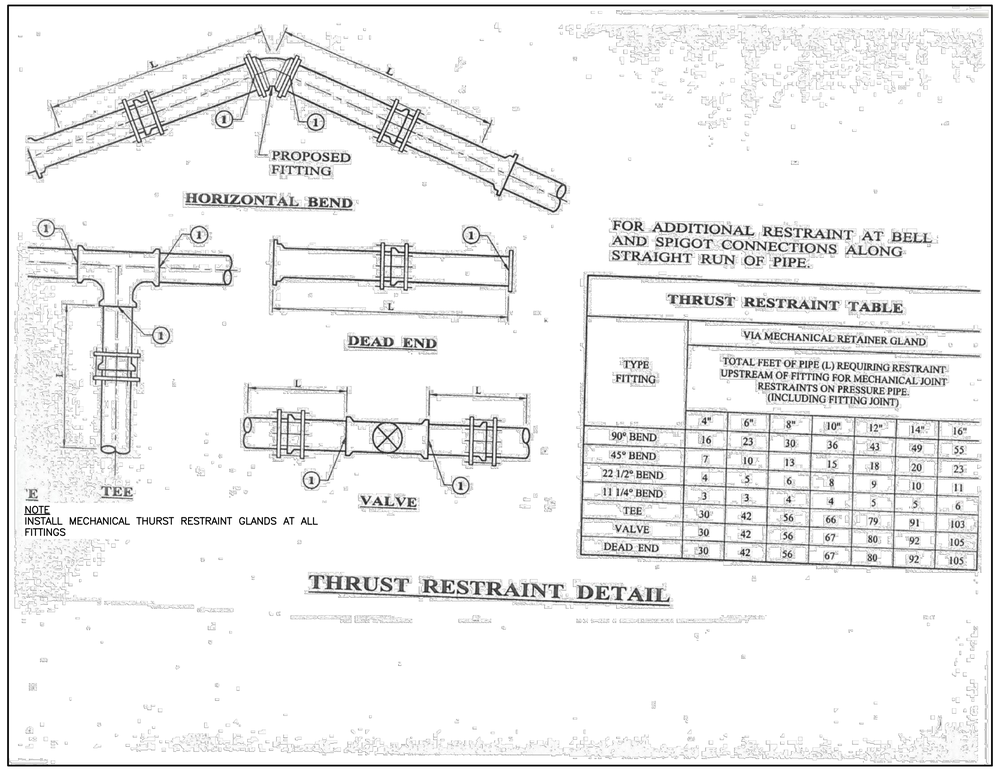


CROSS–SECTION

TABLE OF CASING SIZES

PIPE SIZE (INCHES)	CASING SIZE (INCHES)	MAX. SKID SPACING
4	8	4'
6	10	6'
8	12	6'
10	16	8'
12	18	8'

BORE/CASE DETAIL



THRUST RESTRAINT TABLE

TYPE FITTING	VIA MECHANICAL RETAINER GLAND: TOTAL FEET OF PIPE (L) REQUIRING RESTRAINT UPSTREAM OF FITTING FOR MECHANICAL JOINT RESTRAINTS ON PRESSURE PIPE. (INCLUDING FITTING JOINT)						
	4"	6"	8"	10"	12"	14"	16"
90° BEND	16	23	30	36	43	49	55
45° BEND	7	10	13	15	18	20	23
22 1/2° BEND	4	5	6	8	9	10	11
11 1/4° BEND	3	3	4	4	5	5	6
TEE	30	42	56	66	79	91	103
VALVE	30	42	56	67	80	92	105
DEAD END	30	42	56	67	80	92	105

THRUST RESTRAINT DETAIL

BAIRD, HAMPTON & BROWN
ENGINEERING & SURVEYING
6300 Ridglea Place, Suite 700
Fort Worth, TX 76116
817.338.1277 bhbinc.com
mail@bhbinc.com
TBPE Firm # 44 TBPLS FIRM # 10011300

ROLLING CREEK RANCH PHASE 2
RESIDENTIAL DEVELOPMENT
HOOD COUNTY, TEXAS

WATER LINE DETAILS (2 OF 2)

NO.	DESCRIPTION	DATE

STATE OF TEXAS
TRACY E. STREVEY III
89487
LICENSED PROFESSIONAL ENGINEER
1/09/17

PROJECT NUMBER:	2016.121.000		
DATE:	1-19-17	DRAWN BY:	CAW
DESIGN BY:	CAW	CHECKED BY:	TS

SHEET
15

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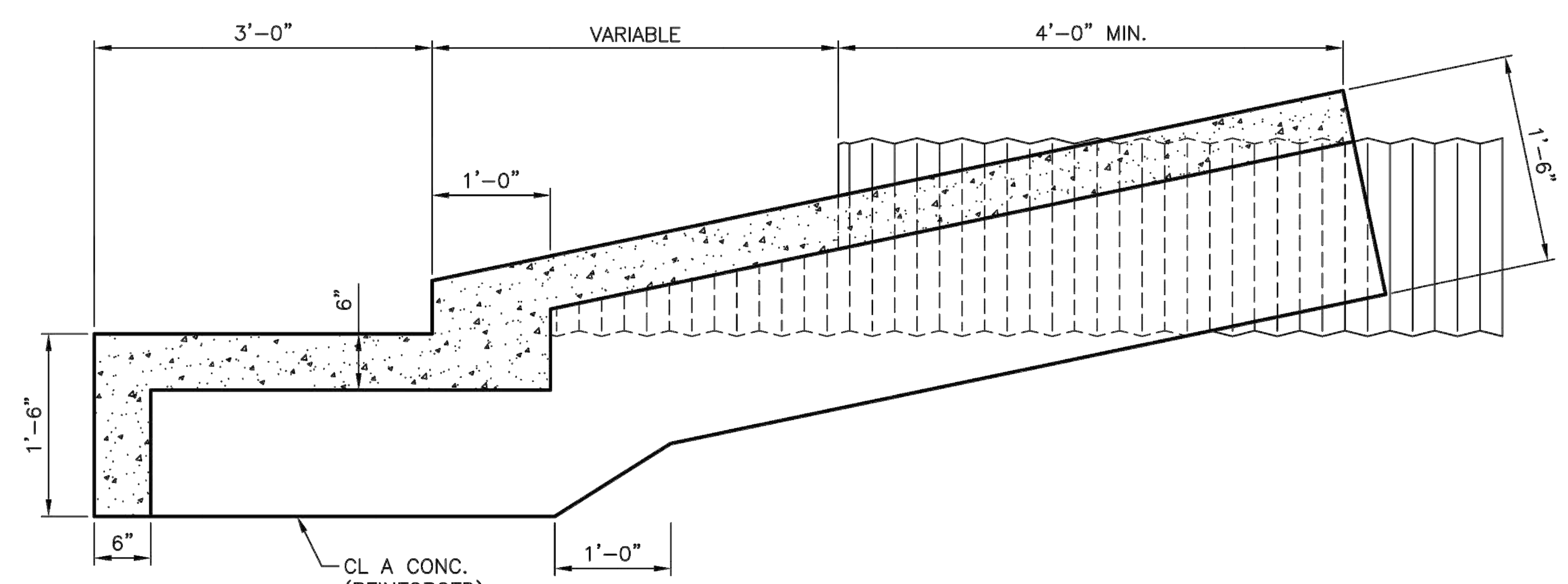
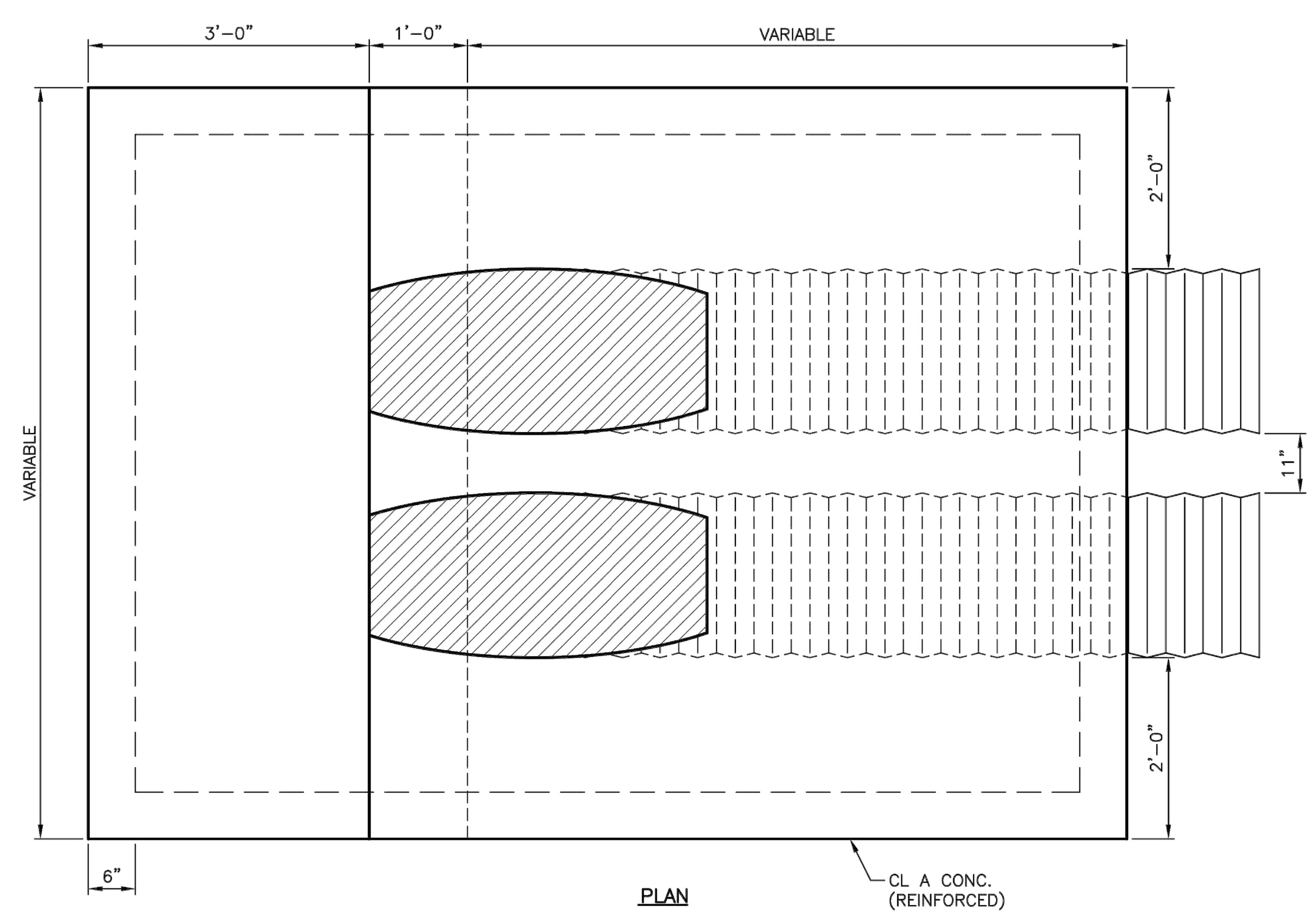
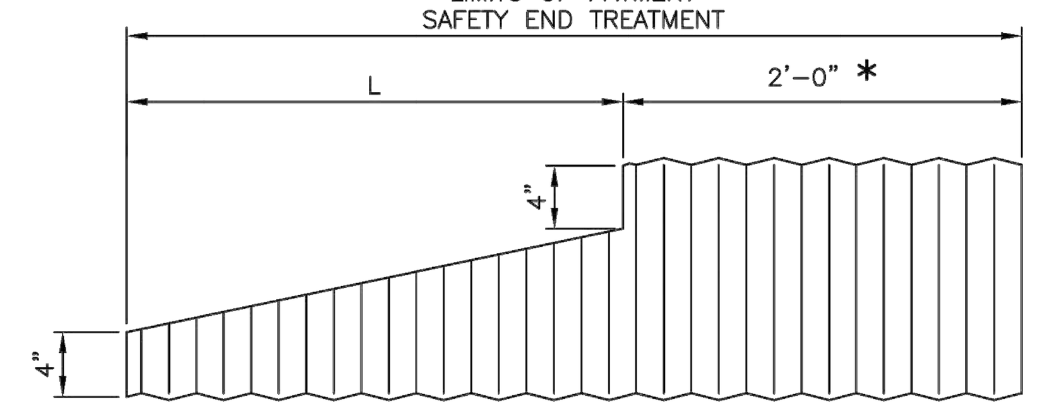


ELEVATION



PLAN

LIMITS OF PAYMENT SAFETY END TREATMENT



TYPICAL SAFETY END TREATMENT CAP

* ANYTHING OVER 2'-0" WILL BE PAID FOR AS L.F. OF PIPE

SAFETY END TREATMENT

PIPE SIZE	SLOPE	L IN.	PIPE SIZE	SLOPE	L IN.
18"	3:1	30	DES. 2 ARCH	3:1	21
	4:1	40		4:1	28
	6:1	60		6:1	42
24"	3:1	48	DES. 3 ARCH	3:1	36
	4:1	64		4:1	48
	6:1	96		6:1	72
30"	3:1	66	DES. 5 ARCH	3:1	63
	4:1	88		4:1	84
	6:1	168			
36"	3:1	84			
	4:1	112			
	6:1	168			

NOTE: THE ABOVE DIMENSIONS MAY BE VARIED, AS APPROVED BY THE ENGINEER, TO MEET MANUFACTURERS PREDETERMINED STANDARDS.

SAFETY END TREATMENT

PIPE SIZE	SLOPE	L IN.
18"	2:1	20
24"	2:1	32
36"	2:1	56

STANDARD PLANS
TEXAS DEPARTMENT OF TRANSPORTATION
Traffic Operations Division

SAFETY END TREATMENT (TY II)
CORRUGATED METAL PIPE

SET(1)(FW)

DN:	CK:	DW:	CK:	NEG NO.:

REVISIONS	STATE DISTRICT	FEDERAL REGION	FEDERAL AID PROJECT	SHEET
	COUNTY	CONTROL	SECTION	JOB	HIGHWAY

8.09.2017 10:15AM E:\2016.000.000\2016.121.000 - Rolling Creek Ranch\01 CADD\04 Civil\121DetailsPhase2.dwg SET DETAIL

BAIRD, HAMPTON & BROWN
ENGINEERING & SURVEYING
6300 Ridglea Place, Suite 700
Fort Worth, TX 76116
mail@bhbinc.com 817.338.1277 bhbinc.com
TBPE Firm #44 TBPLS FIRM #10011300

ROLLING CREEK RANCH PHASE 2
RESIDENTIAL DEVELOPMENT
HOOD COUNTY, TEXAS

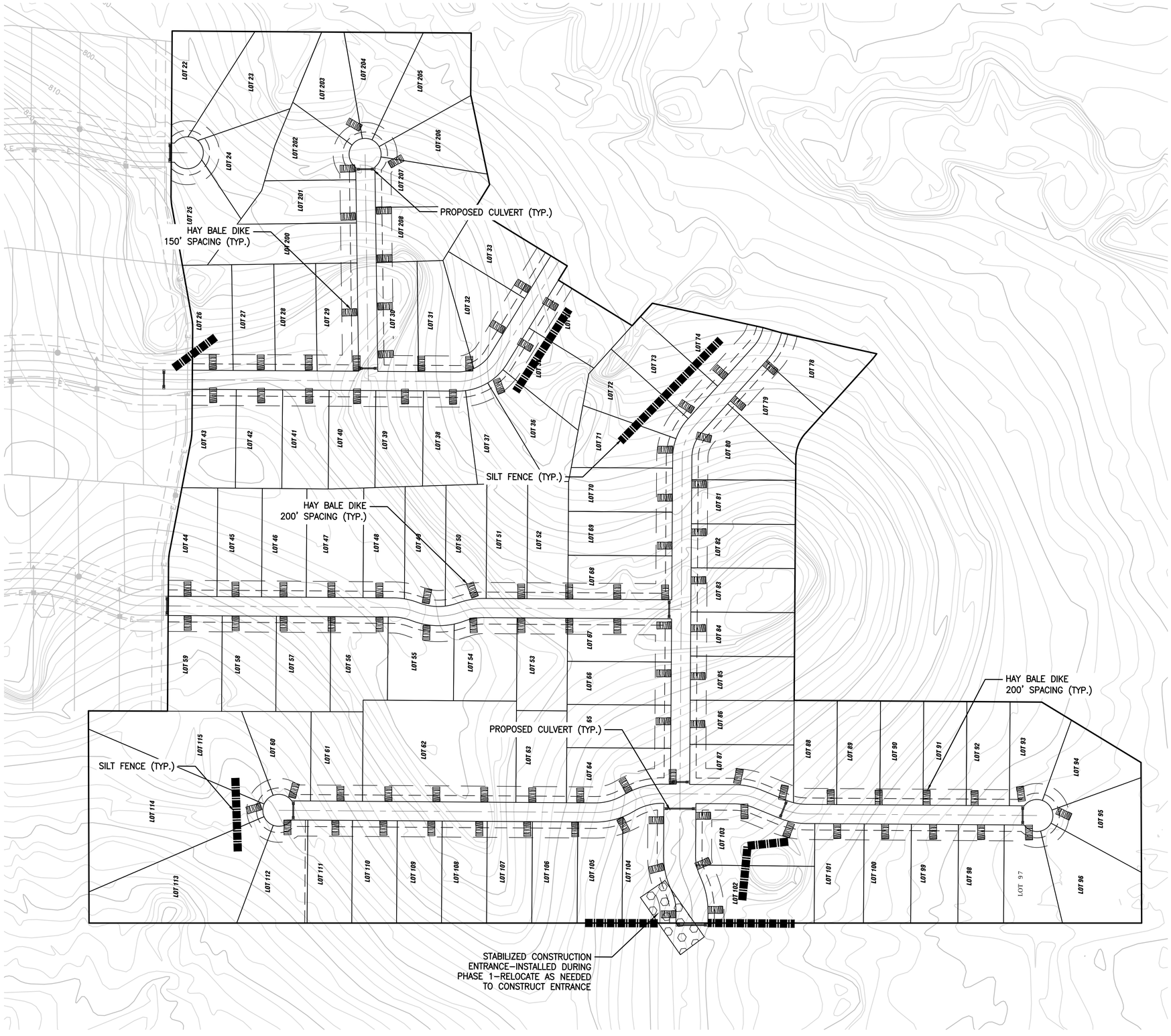
CULVERT SET DETAILS

NO.	DESCRIPTION	DATE

STATE OF TEXAS
TRACY E. STREVEY III
89487
LICENSED PROFESSIONAL ENGINEER
1/09/17

PROJECT NUMBER: 2016.121.000	
DATE: 1-19-17	DRAWN BY: CAW
DESIGN BY: CAW	CHECKED BY: TS

SHEET
16



150 75 0 150 300

GRAPHIC SCALE: 1"= 150'-feet (24"x36")
1"= 300'-feet (12"x18")

EROSION CONTROL LEGEND		
DESCRIPTION	SYMBOL	LOCATION
STABILIZED CONSTRUCTION ENTRANCE		AS REQUIRED
PERIMETER SILT FENCE		AS SHOWN SEE PLAN
DIVERSION SWALE		AS SHOWN SEE PLAN
HAY BALE DIKE		200' O.C. ALL SWALES

EROSION CONTROL CONSTRUCTION RESPONSIBILITIES		
EROSION CONTROL MEASURE	INSTALLATION RESPONSIBILITY	MAINTENANCE RESPONSIBILITY
STABILIZED CONSTRUCTION ENTRANCE	EARTHWORK CONTRACTOR	EARTHWORK & PAVING CONTRACTOR
PERIMETER SILT FENCE	EARTHWORK CONTRACTOR	ALL CONTRACTORS
DIVERSION SWALE	EARTHWORK CONTRACTOR	ALL CONTRACTORS
HAY BALE DIKE	EARTHWORK CONTRACTOR	EARTHWORK CONTRACTOR

BAIRD, HAMPTON & BROWN
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mail@bhbinc.com TBPE Firm # 4 TBPLS FIRM # 10011300

ROLLING CREEK RANCH PHASE 2
RESIDENTIAL DEVELOPMENT
HOOD COUNTY, TEXAS

EROSION CONTROL PLAN

NO.	DESCRIPTION	DATE

STATE OF TEXAS
TRACY E. STREVEY III
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SHEET 17