



Plotted by: ddewey; Plot Date: 7/19/2012 4:03 PM

LINE 11

LINE 10

COMPACTED FILL TO 95% STANDARD DENSITY TO BE IN PLACE PRIOR TO CONSTRUCTION

HGL 497.83

100-YR HGL

18" RCP @ 0.50%

18" RCP @ 0.41%

18" RCP @ 15.99%

18" RCP

$Q_{100} = 6.0 \text{ cfs}$
 $Q_{200} = 6.7 \text{ cfs}$
 $S_f = 0.0032 \text{ ft/ft}$
 $V_{100} = 3.38 \text{ fps}$
 $V_{200} = 0.18 \text{ ft}$

8" WATER CROSSING (CONCRETE ENCASEMENT TO EXTEND 10' EACH SIDE OF CROSSING)

EX. GROUND @ CL OF PIPE

1+42.69 LINE 11 CONST. 15' CT. 11A VC 503.60

PROG. GROUND @ CL OF PIPE

REMOVE PLUG CONNECT TO EX. 18" RCP BEGIN 18" RCP

PA/O=60.36 LINE 11

FL 507.96

FL 505.95

FL 18" (OUT) - 488.08

FL 18" (IN) - 488.08

FL 18" (OUT) - 500.27

0+00 1+00 2+00

EX. GROUND @ CL OF PIPE

PROP. GROUND @ CL OF PIPE

FUTURE GROUND @ CL OF PIPE

PARTIAL FLOW

27" RCP @ 0.60%

27" RCP @ 1.42%

27" RCP

$Q_{100} = 22.1 \text{ cfs}$
 $Q_{200} = 36.9 \text{ cfs}$
 $S_f = 0.0051 \text{ ft/ft}$
 $V_{100} = 5.56 \text{ fps}$
 $V_{200} = 0.48 \text{ ft}$

0+00 1+00

FL 511.72

FL 511.72

FL 511.72

FL 512.12

FL 512.42

FL 27" 511.98

FL 27" 512.08

FL 27" 512.08

FL 512.42

EX. GROUND @ CL OF PIPE

PROP. GROUND @ CL OF PIPE

FUTURE 8" SS CROSSING (CONCRETE ENCASEMENT TO EXTEND 10' EACH SIDE OF CROSSING)

FUTURE 24" RCP @ 22.80%

24" RCP

$Q_{100} = 14.5 \text{ cfs}$
 $Q_{200} = 108.0 \text{ cfs}$
 $S_f = 0.0041 \text{ ft/ft}$
 $V_{100} = 4.60 \text{ fps}$
 $V_{200} = 0.33 \text{ ft}$

FUTURE 8" SS @ 0.59%

1+85.69 LINE 10 0+00.00 LAT 10A INSTALL 60" WYE

3+35.46 LINE 10 0+00.00 LINE 12 INSTALL 60" WYE

4+45.38 LINE 10 0+00.00 LINE 10 INSTALL 60" WYE

FL 512.72

FL 516.15

FL 519.04

FL 518.37

FL 519.86

FL 519.81

FL 519.69

FL 519.89

2+00 3+00 4+00 5+00

- BENCHMARKS**
1. X-chiseled in CL of Alley East of Morningstar Drive within the third lot north of Midnight Pass. Elevation = 513.26
 2. PK Nail in CL of Caruth Lane & Alley intersection 150 feet +/- east of Morningstar Drive. Elevation = 491.68

NO.	REVISIONS DURING CONSTRUCTION	BY	DATE	NO.	SUBMITTALS	DATE
1.	Added 27" RCP 34 ft. from PC 0+11.29- PT 0+44.97	dd	4/23/12			

The seal appearing on this document was authorized by DANIEL DEWEY, P.E. 93961. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act.

DANIEL DEWEY
 93961
 LICENSED PROFESSIONAL ENGINEER

7-20-12



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STORM SEWER PROFILES		PROJECT NO.
LINE 11 & LAT 9-B2		HOE132
Caruth Lakes Phase 7		SHEET NO.
City of Rockwall, Texas		15

AS-BUILT DRAWINGS: 7/20/12

TO THE BEST OF JBI PARTNERS, INC. KNOWLEDGE HEREBY STATES THE THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON CONSTRUCTION STAKING AND PAD VERIFICATION AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

ALL STORM SEWER PIPE SHALL BE CLASS III REINFORCED CONCRETE PIPE.

ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.