ACAD Rel 17.0s (LMS Tech) User: KAS
[ROK06114][DALSRV2]N:\IF\DRAWINGS\CV-DNG-PP-STRM02.DWG LAYOUT: Layout1
DEC 20, 2006 3:45:07 P.M. LTS: 1.00 PSLTS: 1 TWIST: 0.0, 90.0, 0.0, 0.0
5 REFERENCE FILES: N:\205 DALLAS N DRIVE\IF\BASE\CV-ALL-PL-SHAD, N:\205 DALLAS N DRIVE\IF\BASE\CV-ALL-PL-SITE, N:\205 DALLAS N DRIVE\IF\BASE\CV-ALL-PL-TOPO, N:\205 DALLAS N DRIVE\IF\BASE\CV-ALL-PR-STORM and N:\205 DALLAS N DRIVE\STANDARD\34BORDER

STA 1+77.80 LINE D
END 4'X2' RCB.
REMOVE EXISTING HEADWALL AND CONNECT TO EXIST. 4'X2' RCB.
APPROX. FL=574.28
(FIELD VERIFY)
N=7,019,000.30
E=2,603,364.93

STA 1+20.80 LINE D
END CH-PW-0 HEADWALL
BEGIN 4'X2' RCB
FL=574.10

STA 1+00.80 LINE D
BEGIN TYPE CH-PW-0 HDWL
FL=573.98
N=7,018,998.14
E=2,603,287.96

205 BYPASS

STATE HIGHWAY 276

LINE D

STA 1+00.80 LINE D
INSTALL TYPE PW-0 HEADWALL
MATCH EX. DITCH
FL=573.98
STA 1+20.80 LINE D
END TYPE PW-0 HEADWALL AND BEGIN 4'X2' RCE
FL=574.10

EX. GROUND AT CL OF PIPE

Q_{100}=37.9 cfs
V =4.74 fps
S =0.0029 ft/ft
Qcap=49.35 cfs

0.30%

0.50%

HGL-PARTIAL FLOW

FL 574.14

STA 1+77.80 LINE D
END 4'X2' RCB AND CONNECT TO EXIST. 4'X2' RCB
FL=574.28

EX. 4'X2' RCB @ 0.50%

PROP. 205 BYPASS FINISHED GROUND AT CL OF PIPE

STA 4+42.79 LINE A
END 18" RCP AND INSTALL 45° BEND. PLUG & ABANDON EXIST. 18" RCP.
FL=567.34±

566.67

EX. GROUND AT CL OF PIPE

Q_{100}=9.36 cfs
V =5.30 fps
S =0.0079 ft/ft
Qcap=13.12 cfs

13" RCP @ 1.56%

HGL=569.75
HGL=569.49

STA 3+28.31 LINE A1 =
END 24" RCP AND BEGIN 18" RCP
FL 18"=565.56
FL 24"=565.06

HGL=568.56
HGL=568.47

STA 3+25.31 LINE A1 =
STA 1+00 LATERAL A1a
INSTALL 18"X24" WYE CONNECTION
FL 18"=565.01
FL 24"=565.01

Q_{100}=14.2 cfs
V =4.50 fps
S =0.0039 ft/ft
Qcap=28.3 cfs

24" RCP @ 1.56%

STA 2+78.89 LINE A1
END 36" RCP AND BEGIN 24" RCP
FL 36"=564.29
FL 42"=563.29

HGL=568.27
HGL=568.06

STA 2+75.89 LINE A1 =
STA 1+00 LATERAL A1
INSTALL 36"X36" 60° WYE
FL 36"=563.24

Q_{100}=34.7 cfs
V =4.90 fps
S =0.0027 ft/ft
Qcap=83.3 cfs

36" RCP @ 1.56%

STA 2+31.05
LINE A1=
END 42" RCP & BEGIN 36" RCP
FL 36"=562.04
FL 42"=562.54

HGL=567.93
HGL=567.90

PROP. 205 BYPASS FINISHED GROUND AT CL OF PIPE

EX. GROUND AT CL OF PIPE

STA 2+28.05 LINE A1=
STA 1+00 LAT A1b
INSTALL 18"X42" WYE CONNECTION
FL 18"=562.99
FL 42"=561.99

Q_{100}=38.6 cfs
V =4.02 fps
S =0.0015 ft/ft
Qcap=125.65 cfs

42" RCP @ 1.56%

STA 1+67.93 LINE A1=
INSTALL 45° BEND
FL 42"=561.06

560.78

HGL=567.82
HGL=567.69

STA 1+10 LINE A1
INSTALL 1-60° HORIZ. BEND
FL=560.16

STA 1+00 LINE A1
BEGIN 36" RCP AND TIE TO EXISTING WINGWALL.
FL 30"=560.00±

Q_{100}=39.00 cfs
V =4.06 fps
S =0.0010 ft/ft
Qcap=125.65 cfs

HGL=567.61
HGL=567.50
HGL=567.49

PROP. 205 BYPASS FINISHED GROUND AT CL OF PIPE

STA 4+42.79 LINE A1
CONNECT TO EXIST. 18" RCP
INSTALL 18" 45° HORIZ BEND
TIE TO EXIST. 18" RCP (W)
PLUG EX 18" RCP (E)
N=7,017,780.70
E=2,603,367.00
(FIELD VERIFY)

STA 1+09.74 LATERAL A1a
CONNECT TO 10' RCI #A1a
TC=569.79
FL 18"=565.29
HGL=567.93
N=7,017,574.61
E=2,603,362.32

SEE SD-3

STA 1+09.74 LATERAL A1a
CONNECT TO 10' RCI #A1a
TC=569.79
FL 18"=565.29
HGL=568.56
N=7,017,668.85
E=2,603,360.60

STA 3+25.31 LINE A1=
STA 1+00 LATERAL A1a
INSTALL 18"X24" 60° WYE
N=7,017,664.19
E=2,603,369.15

STA 2+75.89 LINE A1=
STA 1+00 LATERAL A1
INSTALL 36"X36" 60° WYE
REMOVE EX 24" RCP WHERE IN CONFLICT
PLUG EX 24" RCP (E)
N=7,017,569.95
E=2,603,307.87

STA 2+28.05 LINE A1=
STA 1+00 LATERAL A1b
INSTALL 18"X42" 60° WYE
N=7,017,569.95
E=2,603,322.48

STA 1+10 LINE A1
INSTALL 42" 60° HORIZ. BEND
N=7,017,476.89
E=2,603,322.48

STA 1+00 LINE A1
CONNECT 42" TO EXIST WINGWALL
FL=560.00±
HGL=567.49
N=7,017,466.98
E=2,603,323.80
(FIELD VERIFY)

STA 1+67.93 LINE A1
INSTALL 42" 45° HORIZ. BEND
N=7,017,506.84
E=2,603,372.06

SCALE:
HORIZ: 1"=20'
VERT 1"=5'

0 10' 20' 40'
SCALE IN FEET

This Record Drawing is a combination of the sealed engineering contract drawings for this project, modified by information furnished by the contractor reflecting changes in the Project made during construction. The original sealed drawings are on file at the offices of

NO.	ISSUE	BY	DATE
1	RECORD DRAWINGS	CJP	5/12/09

VERIFY SCALE 0 1 Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.

F&N JOB NO. ROK06114
DATE 05/2007
DESIGNED KAS
DRAWN KAS
REVISED
CHECKED TBS
FILE NAME CV-DNG-PP-STRM02.dwg

CITY OF ROCKWALL, TEXAS

205 BYPASS CONSTRUCTION

CIVIL

STORM SEWER PLAN AND PROFILE STORM LINE D, LINE A1

Freese and Nichols
1701 N. Market Street, Suite 500, LB 51
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RECORD DRAWINGS PREPARED ON: 3/16/2009

THE SEAL THAT ORIGINALLY APPEARED ON THIS DOCUMENT WAS AUTHORIZED BY TRICIA H. HATLEY P.E. TEXAS NO: 83282 ON 2/5/2008
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SHEET SD-2
SEQ. 28 OF 86