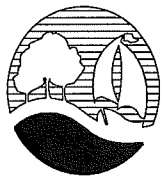


# SAM HOUSTON STREET IMPROVEMENTS (SH-205 TO BOYDSTUN)



CITY OF ROCKWALL

"THE NEW HORIZON"

FEBRUARY 2008

BILL CECIL \* MAYOR

TIM MCCALLUM

STEPHEN STRAUGHAN

BOB COTTI

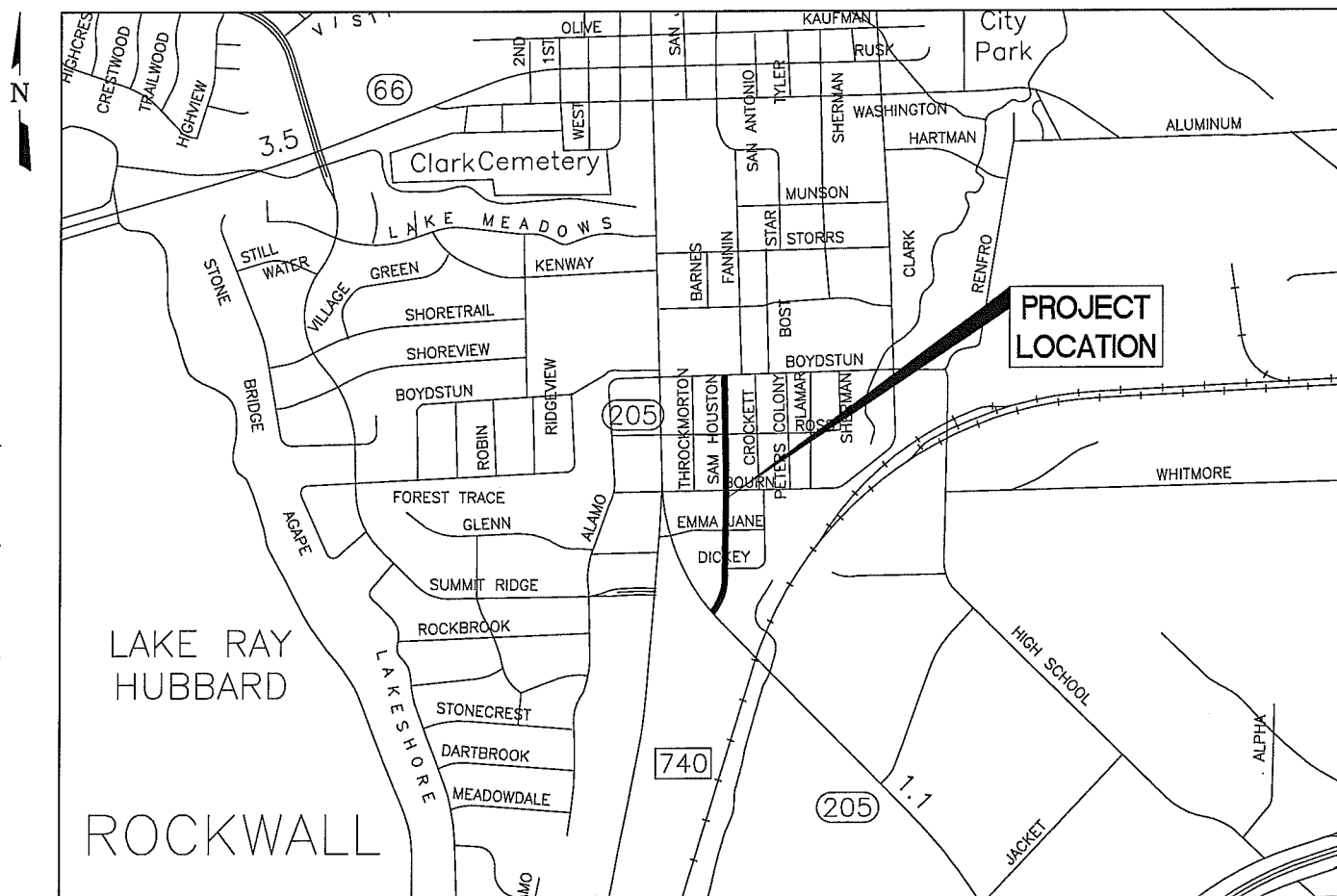
CLIFF SEVIER

MARGO NIELSON

MATT SCOTT \* MAYOR PRO-TEM  
CITY COUNCIL

JULIE COUCH  
CITY MANAGER

CHUCK TODD, P.E.  
DIRECTOR OF PUBLIC WORKS



VICINITY MAP  
N.T.S.

**Freese and Nichols**  
1701 N. Market Street, Suite 500, LB 51  
Dallas, Texas 75202-2001  
Phone - (214) 920-2500  
Fax (214) 920 2565

ROK06451

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XS-3	27 OF 31	SAM HOUSTON CROSS SECTIONS
XS-4	28 OF 31	SAM HOUSTON CROSS SECTIONS
XS-5	29 OF 31	SAM HOUSTON CROSS SECTIONS
XS-6	30 OF 31	SAM HOUSTON CROSS SECTIONS
XS-7	31 OF 31	SAM HOUSTON CROSS SECTIONS

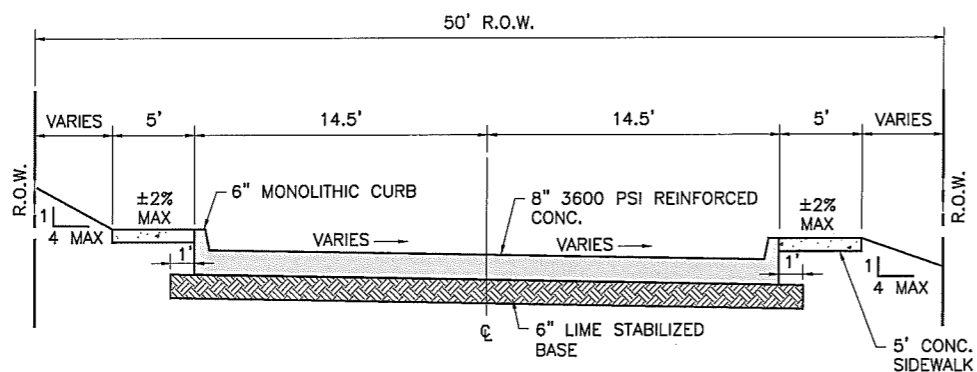
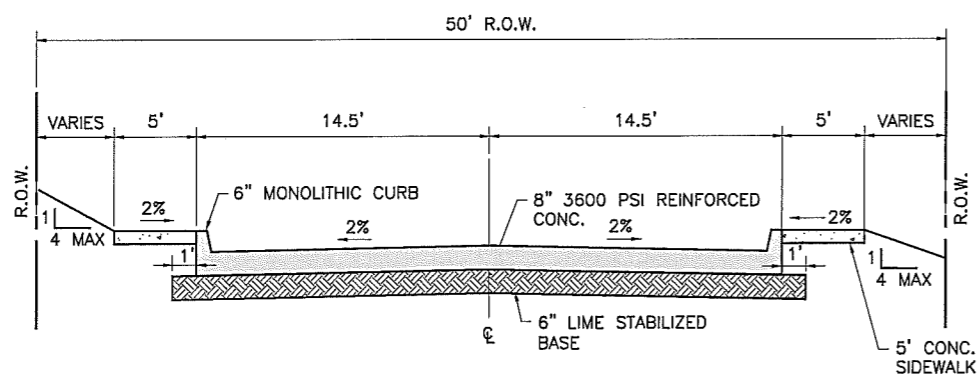
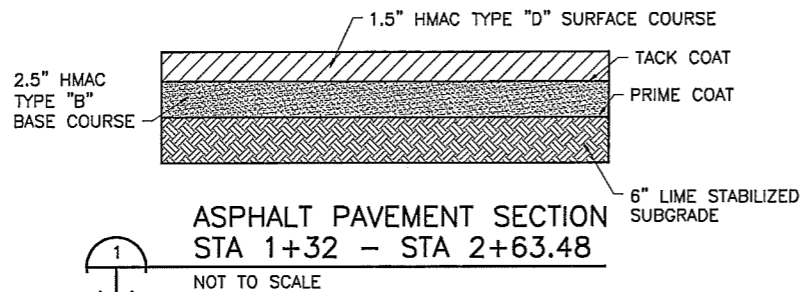
ISSUED FOR CONSTRUCTION  
ON 3/19/2008

THE SEAL APPEARING ON THIS DOCUMENT WAS  
AUTHORIZED BY KEVIN R. JOHNSON, P.E.  
TEXAS NO. 92882 ON 01/30/08  
ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER  
NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN  
OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

This Record Drawing is a combination of the  
sealed engineering contract drawings for this  
project, modified by addenda, change order, field  
order and information furnished by the contractor.  
The information shown on the Record Drawings is  
believed to be accurate based on our  
observations performed during construction and  
information furnished by others. The original  
sealed drawings are on file at the offices of  
**FREESE AND NICHOLS, INC.**  
4025 INTERNATIONAL PLAZA, SUITE 200  
FORT WORTH, TEXAS 76109-4895  
(817) 738-7500  
RECORD DRAWINGS PREPARED ON:  
12/30/2008

[R0K06451] [NOT ON NETWORK] [DRAWINGS] [GN-ALL-COVER.DWG] LAYOUT: Layout1  
 MAY 10, 2007 8:39:26 A.M. LTS: 300.00 PSLTS: 0 TWIST: 0.0  
 REFERENCE FILE: I:\SEALS\82775



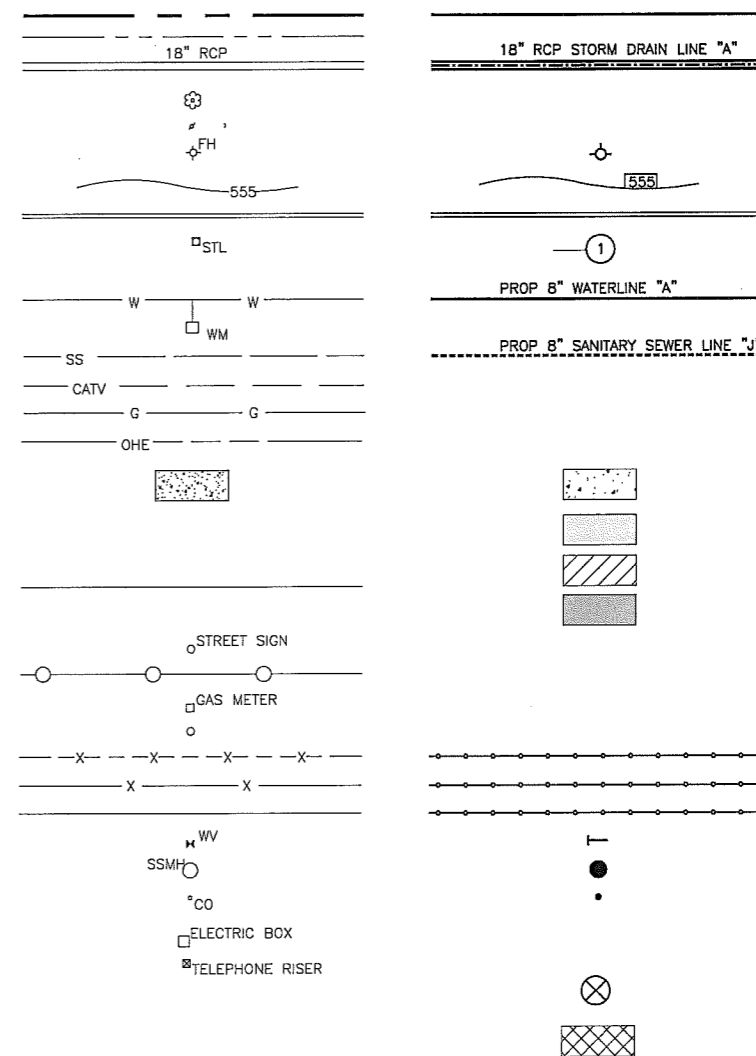


**PLAN LEGEND**

**EXISTING**

**PROPOSED**

- R.O.W. & PROPERTY LINE
- LOT LINE
- STORM DRAIN
- TREE
- POWER POLE AND GUY WIRE
- FIRE HYDRANT
- CONTOUR
- CURLINE
- POWER POLE WITH STREET LIGHT
- COORDINATE POINT
- WATER LINE
- WATER SERVICE LINE & METER
- SANITARY SEWER LINE
- DATA LINES
- GAS LINES
- OVERHEAD ELECTRIC LINES
- SIDEWALK PAVING 4" THICK, 3000 PSI W/#3 @ 24" c/c EW.
- 8" REINFORCED CONCRETE PAVEMENT
- ASPHALT PAVEMENT
- REINFORCED CONCRETE DRIVEWAY
- TRAFFIC SIGN
- GRAVEL PAVEMENT
- GAS METER
- GAS TEST STATION
- WROUGHT IRON FENCE
- CHAINLINK FENCE
- WOOD STOCKADE FENCE
- WATER VALVE
- SS MANHOLE
- SS CLEANOUTS
- ELECTRIC BOX
- TELEPHONE RISER
- TREE TO BE REMOVED
- 8" REINFORCED CONCRETE PAVEMENT REPLACEMENT



This Record Drawing is a combination of the sealed engineering contract drawings for this project, modified by addenda, change order, notices, and amendments. The information shown on this drawing is believed to be accurate based on our observations performed during construction and is not intended to be used for any other purpose. Sealed drawings are on file at the office of FRESHE AND NICHOLS, INC. 4505 WILLOWBARK, PLAZA, SUITE 200 FORT WORTH, TEXAS 76107-6885 (817) 725-7260 RECORD DRAWING PREPARED ON: 12/29/2008

ISSUED FOR CONSTRUCTION ON 3/19/2008

THE SEAL APPEARING ON THIS DOCUMENT WAS ISSUED BY THE STATE ENGINEER OF TEXAS UNDER THE AUTHORITY OF THE STATE ENGINEERING PRACTICE ACT.

**Freese and Nichols**  
 1701 N. Market Street, Suite 500, LB 51  
 Dallas, Texas 75202-2001  
 Phone - (214) 920-2500  
 Fax - (214) 920-2565

CITY OF ROCKWALL, TEXAS  
**SAM HOUSTON STREET IMPROVEMENTS**  
 TYPICAL SECTIONS & LEGEND



NO. ISSUE	DATE	BY	DATE	BY	NO.
1	MAR 2008	KRJ	12/30/08	KRJ	0
DESIGNED	CCB	DRAWN	MILP	CHECKED	KRJ
RECORD				FILE NAME	CV-ROK-XS-TYPL01.dwg
ISSUED FOR CONSTRUCTION				REVISION	
VERIFY SCALE				Bar is one inch on original drawing, if not one inch on this sheet, adjust scale.	

MAY 10, 2007 9:01:49 A.M. LRS: 1.00 PSLTS: 1  
 REFERENCE FILE: \\ASTANDARD\BORDER

ITEM NO.	DESCRIPTION	UNIT	UNIT	PV-1	PV-2	PV-3	PV-4	SD-1	SD-2	SD-3	UT-1	UT-2	UT-3	UT-4	UT-5	Bid Amount
PAVING																
100	Mobilization	LS	Lump Sum													1
101	Remove & Dispose Existing Asphalt Pavement	SY	Square Yard	1160	1162	1087	977									4605
102	Remove & Dispose Existing Concrete Pavement	SY	Square Yard			75								70		152
103	Remove & Dispose Trees	EA	Each	8	3		7									18
104	Remove & Reset Existing Signs	EA	Each	3	2	1	2									8
105	Remove & Reset Existing Mailboxes	EA	Each		2											2
106	Remove & Construct Brick Mailboxes	EA	Each		1											1
107	Remove Retaining Wall	LF	Linear Foot	38		40										78
108	Remove Fence (all types)	LF	Linear Foot		75		95									170
109	Install Fence (all types)	LF	Linear Foot	38	75		95									208
110	Remove Existing Storm Culverts Including Headwalls (if present)	LF	Linear Foot	90	175	70	135									470
111	Remove Existing "Y" Inlets and Aprons	EA	Each		1	3		1								5
112	Remove Existing Storm Drain Pipe (<= 24")	LF	Linear Foot					8	17	16						41
113	Unclassified Street Excavation	CY	Cubic Yard													3100
114	Compacted Earth Fill (in place)	CY	Cubic Yard													500
115	8" Reinf. Concrete Pavement (3600 psi) -- Roadways	SY	Square Yard	825	1345	1365	1165							70		5009
116	6" Reinf. Concrete Pavement (3600psi) -- Driveways	SY	Square Yard	50	380	340	240									1061
117	6" 6% (27lbs/sy) Lime Subgrade	SY	Square Yard	883	1440	1527	1248									5353
118	Lime	TN	Ton	11.92	19.44	20.61	16.85									68.82
119	4" Permanent Asphalt Transition Pavement (per detail)	SY	Square Yard	980												1029
120	6" Integral Curb	LF	Linear Foot	476	793	698	722									2823
121	Concrete Sidewalk (including thickened edge)	SF	Square Foot	2378	4066	3489	3380									13979
122	Leadwalk steps	EA	Each				2									2
123	Type 5 Barrier Free Ramp	EA	Each			2										2
124	Type 7 Barrier Free Ramp	EA	Each	6	13	13	12									44
125	Sodding including 4" Topsoil, Watering, & Fertilizing (offsite approved by City)	SY	Square Yard	780	775	405	862									2963
126	Traffic Control	LS	Lump Sum													1
127	Erosion Control	LS	Lump Sum													1
128	Project Sign	EA	Each													2
STORM SEWER																
200	18" RCP Storm Sewer Class III	LF	Linear Foot						53	253						306
201	21" RCP Storm Sewer Class III	LF	Linear Foot					303								303
202	18" RCP Storm Sewer Class IV	LF	Linear Foot						16	65						81
203	21" RCP Storm Sewer Class IV	LF	Linear Foot					145	88							233
204	5' Curb Inlet	EA	Each						1							1
205	10' Curb Inlet	EA	Each					1	1							2
206	15' Curb Inlet	EA	Each						2							2
207	20' Curb Inlet	EA	Each						2							2
208	Storm Drain Manhole	EA	Each							1						1
209	Headwall W/ Parallel Wings (CH-PW-0)	EA	Each					1								1
210	Connect to Existing Storm Drain Line	EA	Each					1		2						3
211	Trench Safety Design	LS	Lump Sum													1
212	Trench Safety & Support	LF	Linear Foot					448	157	318						923
WATER UTILITIES																
300	8" PVC Water Pipe Class 200 (including all fittings)	LF	Linear Foot								889	335		20		1244
301	6" PVC Water Pipe Class 200 (including all fittings)	LF	Linear Foot								12					12
302	8" Gate Valve	EA	Each								7					7
303	Install Fire Hydrant Assembly including 6" Valve	EA	Each								3					3
304	New meter box including all appurtenances (vacant lots/ No Meter)	EA	Each								5	3				8
305	New 1" Service Line (including connection to mainline)	LF	Linear Foot								468	414				882
306	Connection to existing service including meter box and all fittings	EA	Each								14	11				25
307	Trench Safety Design	LS	Lump Sum													1
308	Trench Safety & Support	LF	Linear Foot								901	335		20		1256
WASTEWATER UTILITIES																
400	8" PVC Sewer Pipe	LF	Linear Foot										308	258	336	902
401	16" Steel Pipe	LF	Linear Foot										40	20		60
402	Abandon Existing Sanitary Sewer Manhole	EA	Each										1		2	3
403	Install New 4' Sanitary Sewer Manhole	EA	Each										3		4	9
404	Adjust Sanitary Sewer Manhole	EA	Each										1	1		2
405	Install New Service and Wastewater Cleanout (connect to existing service)	EA	Each								5	8	5	6		24
406	New Sewer Service Connection Stubout (to vacant lot)	EA	Each										4	1	4	9
407	Connect to Existing Sanitary Sewer Line	EA	Each										1	1	1	3
408	Trench Safety Design	LS	Lump Sum													1
409	Trench Safety & Support	LF	Linear Foot										308	258	336	902

This Record Drawing is a combination of the original drawings and any amendments, project, modified by addenda, change order, field order, and information furnished by the contractor. The information shown on the Record Drawings is the responsibility of the contractor. The original information furnished by others. The original sealed drawings are on file at the offices of  
 ENGINEERING AND ARCHITECTURE  
 1701 N. Maple Street, Suite 500, LB 51  
 Dallas, Texas 75202-2001  
 Phone - (214) 920-2500  
 Fax - (214) 920-2555  
 RECORD DRAWINGS PREPARED ON:  
 12/27/2008

ISSUED FOR CONSTRUCTION  
 ON 3/19/2008

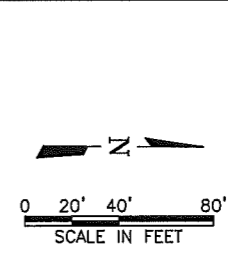
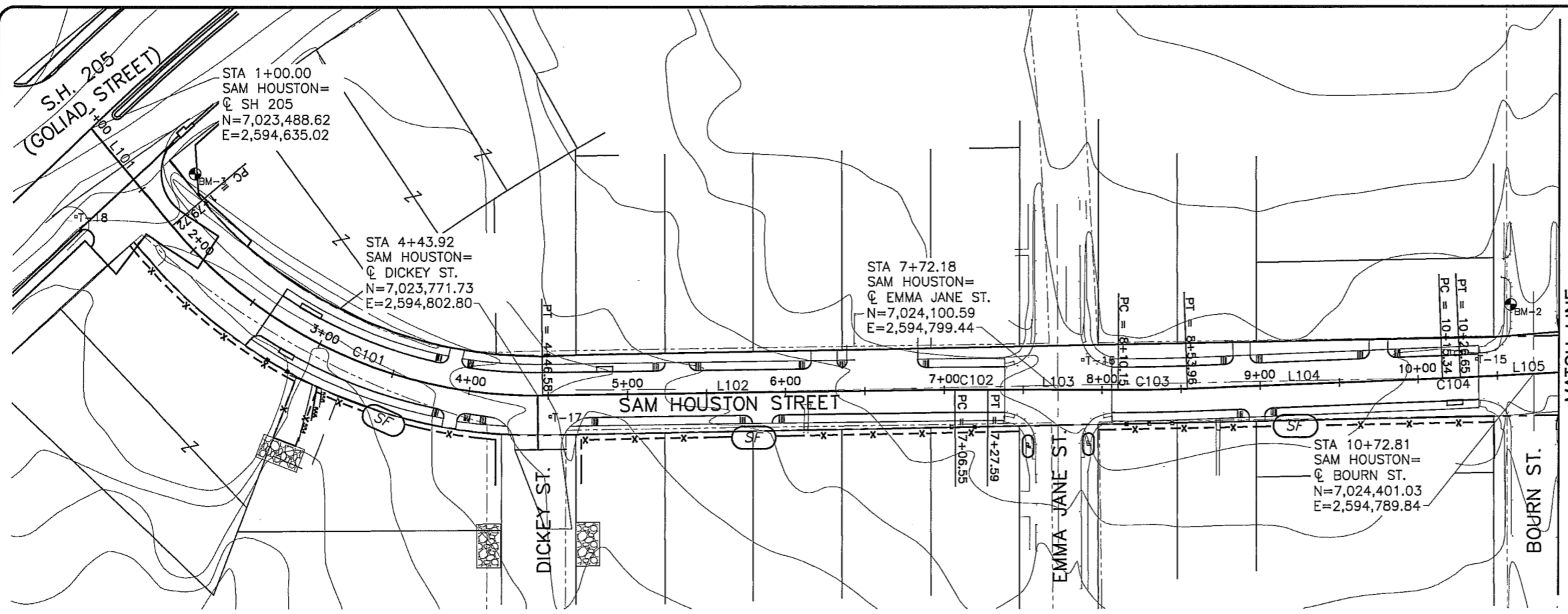
**Freese and Nichols**  
 1701 N. Maple Street, Suite 500, LB 51  
 Dallas, Texas 75202-2001  
 Phone - (214) 920-2500  
 Fax - (214) 920-2555

CITY OF ROCKWALL, TEXAS  
**SAM HOUSTON STREET IMPROVEMENTS**  
 QUANTITIES



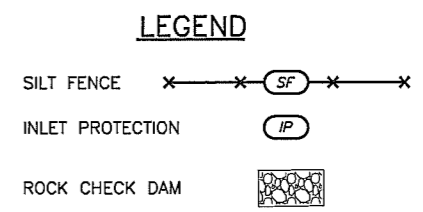
NO. ISSUE	BY	DATE	FOR JOB NO.	ROK06451
			DATE	MAR 2008
			DESIGNED	CCB
			DRAWN	MJP
			REVISION	
			FILE NAME	KRU
			GN-ALL-QNTY.dwg	

LETTERS: J, L, N, U, V, W, X, Y, Z, [REDACTED] 2:28:06 P.M. LJS: 1 PLS: 1  
 2 REFERENCE FILES: STANDARD BORDER and 93882



This Record Drawing is a combination of the sealed engineering contract drawings for this project and the information furnished by the contractor. The information shown on the Record Drawings is believed to be accurate based on our review of the information furnished to us. The engineering and information furnished to us are on file at the office of FRESSE AND NICHOLS, INC. 1701 N. Market Street, Suite 500, LB 51 Dallas, Texas 75202-2500 (214) 920-2500 (214) 920-2585 RECORD DRAWING PREPARED ON: 12/20/2008

- NOTES:  
 1. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS CONCERNING EROSION AND SEDIMENT FROM CONSTRUCTION ACTIVITIES.



**CONTROL POINTS**

PNT	NORTHING	EASTING	ELEV.	DESCRIPTION
T-2	7,024,836.59	2,594,523.96	576.06	COTTON SPIKE IN ASPHALT
T-3	7,024,864.86	2,594,771.89	566.08	COTTON SPIKE
T-4	7,024,843.94	2,595,024.20	575.30	COTTON SPIKE IN ASPHALT
T-14	7,024,648.39	2,594,809.10	563.98	1/2" IRON ROD WITH RED PLASTIC CAP
T-15	7,024,365.33	2,594,780.30	567.01	COTTON SPIKE IN ASPHALT
T-16	7,024,116.30	2,594,780.63	569.07	COTTON SPIKE IN ASPHALT
T-17	7,023,779.90	2,594,816.02	562.22	COTTON SPIKE IN ASPHALT
T-18	7,023,479.27	2,594,690.20	561.50	1/2" IRON ROD WITH RED PLASTIC CAP

**SAM HOUSTON CENTERLINE**

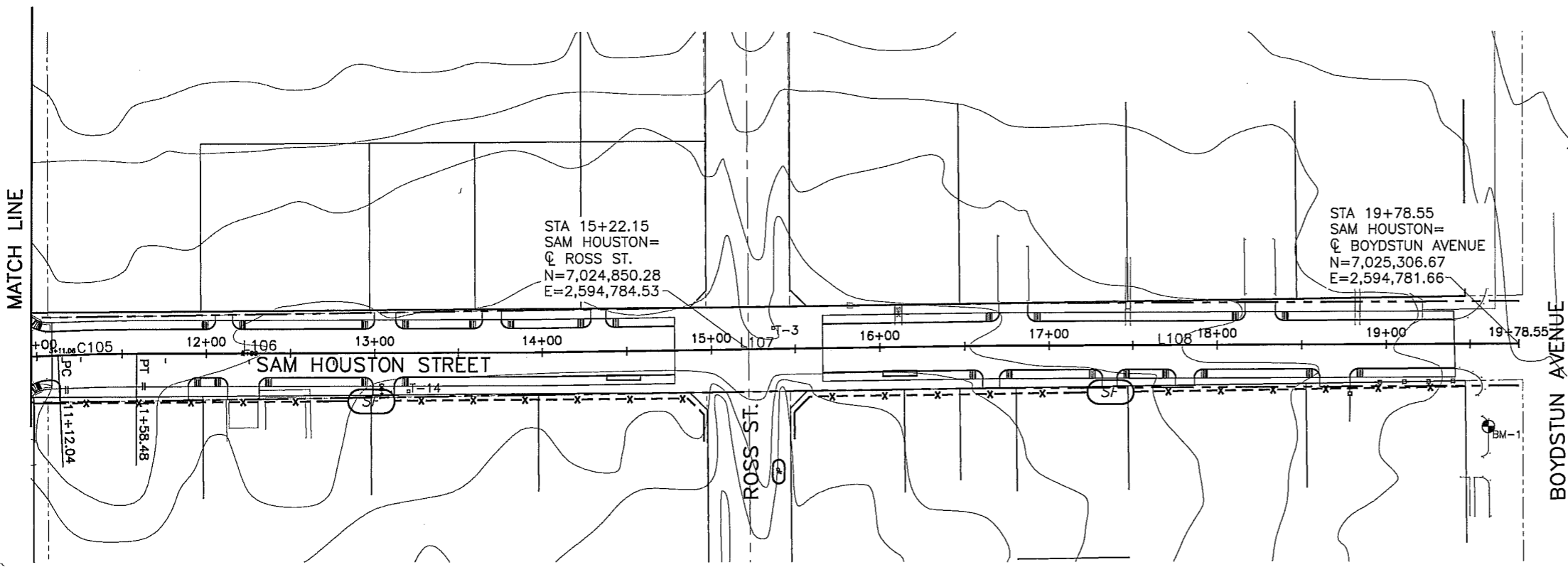
**LINE TABLE**

LINE	LENGTH	BEARING
L101	79.72	N49°54'29"E
L102	259.96	N00°45'14"W
L103	82.56	N00°15'03"E
L104	161.39	N02°13'42"W
L105	85.38	N02°46'06"W
L106	236.79	N00°08'27"W
L107	273.11	N00°48'50"W
L108	310.17	N00°08'49"W

**CURVE TABLE**

CURVE	LEN	RAD	TAN	DELTA
C101	266.86	300.00	142.99	50°58'02"
C102	21.04	1200.00	10.52	1°00'16"
C103	43.81	1000.00	21.91	2°30'36"
C104	11.31	1200.00	5.65	0°32'24"
C105	46.44	1000.00	23.23	2°39'40"

- BENCHMARKS**
- | BM | DESCRIPTION   |
|----|---|
| 1  | CHISELED BOX CUT ON NORTHEAST CURB RETURN OF CIRCLE DRIVEWAY OF 302 BOYDSTUN ST., AT THE NORTHEAST CORNER OF BOYDSTUN ST. AND SAM HOUSTON ST.<br>ELEVATION = 571.25   |
| 2  | CHISELED BOX CUT ON BACK OF CONCRETE CURB IN THE CENTER OF A 10' FOOT CURB INLET, LOCATED AT SOUTHWEST CORNER OF BOURN AND SAM HOUSTON ST.<br>ELEVATION = 567.76  |
| 3  | CHISELED BOX CUT AT THE SOUTHEAST CORNER OF PARKING LOT FOR "ACE HARDWARE", ±40' IN NORTHWEST DIRECTION OF THE CENTERLINE OF SAM HOUSTON ST. AT THE NORTHWEST CORNER OF AN INTERSECTION OF SAM HOUSTON ST. AND GOLIAD ST.<br>ELEVATION = 561.15 |



ISSUED FOR CONSTRUCTION  
 03/19/2008

RECORD  
 12/30/08

ISSUED FOR CONSTRUCTION  
 03/19/08

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

SHEET  
 GN-4

SEQ.  
 5 OF 31

CITY OF ROCKWALL, TEXAS  
 SAM HOUSTON STREET IMPROVEMENTS

HORIZONTAL AND EROSION CONTROL PLAN

ROK06451  
 DATE MAR 2008  
 DESIGNED CCB  
 DRAWN MLP  
 CHECKED KRJ  
 FILE NAME  
 CY-DRA-PL-MAPS.dwg

DATE: MAY 09, 2007 4:20:25 P.M. LOTS: 1 TWIST: 270.0, 270.0  
 3 REFERENCE FILES: ... STANDARD\_34BORDER ... BASE\_CV-ALL-PL-TOPO and N:\V\F\BASE\_CV-ALL-PL-SITE

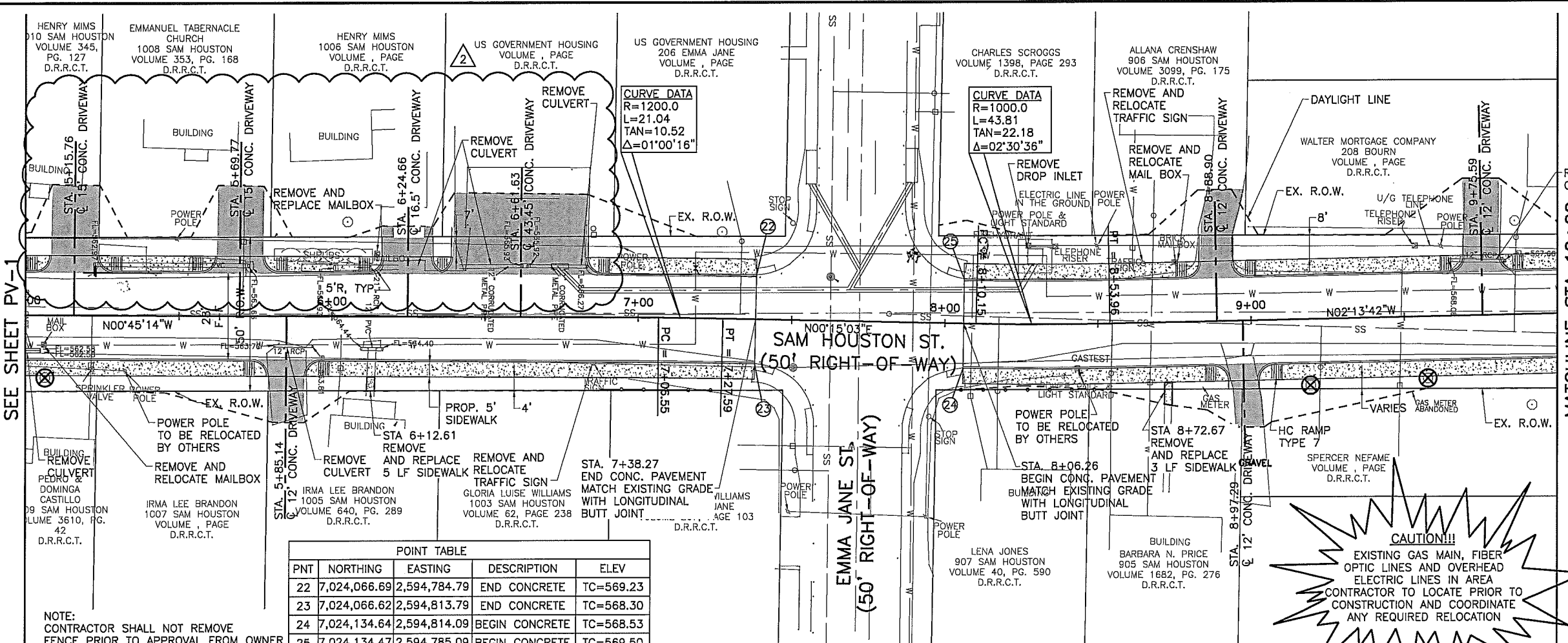
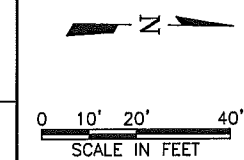


This drawing is a compilation of the record drawings of the project, modified by adding, changing, or deleting information as required for the project, and information furnished by the contractor. The information shown on the record drawings is the responsibility of the contractor. The original information furnished by others. The original information furnished by others. The original information furnished by others.

I:\K0049\1\Drawings\CV-PP-ROAD-PP-ROAD02.dwg  
 DATE: 12/29/08 1:45pm  
 MAY 14, 2007 8:29:52 AM LRS: 1.00 PSLTS: 0 TWIST: 0.0, 288.9  
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MATCHLINE STA 5+00  
SEE SHEET PV-1

MATCHLINE STA 5+00  
SEE SHEET PV-1



**CURVE DATA**  
 R=1200.0  
 L=21.04  
 TAN=10.52  
 Δ=01°00'16"

**CURVE DATA**  
 R=1000.0  
 L=43.81  
 TAN=22.18  
 Δ=02°30'36"

PNT	NORTHING	EASTING	DESCRIPTION	ELEV
22	7,024,066.69	2,594,784.79	END CONCRETE	TC=569.23
23	7,024,066.62	2,594,813.79	END CONCRETE	TC=568.30
24	7,024,134.64	2,594,814.09	BEGIN CONCRETE	TC=568.53
25	7,024,134.47	2,594,785.09	BEGIN CONCRETE	TC=569.50

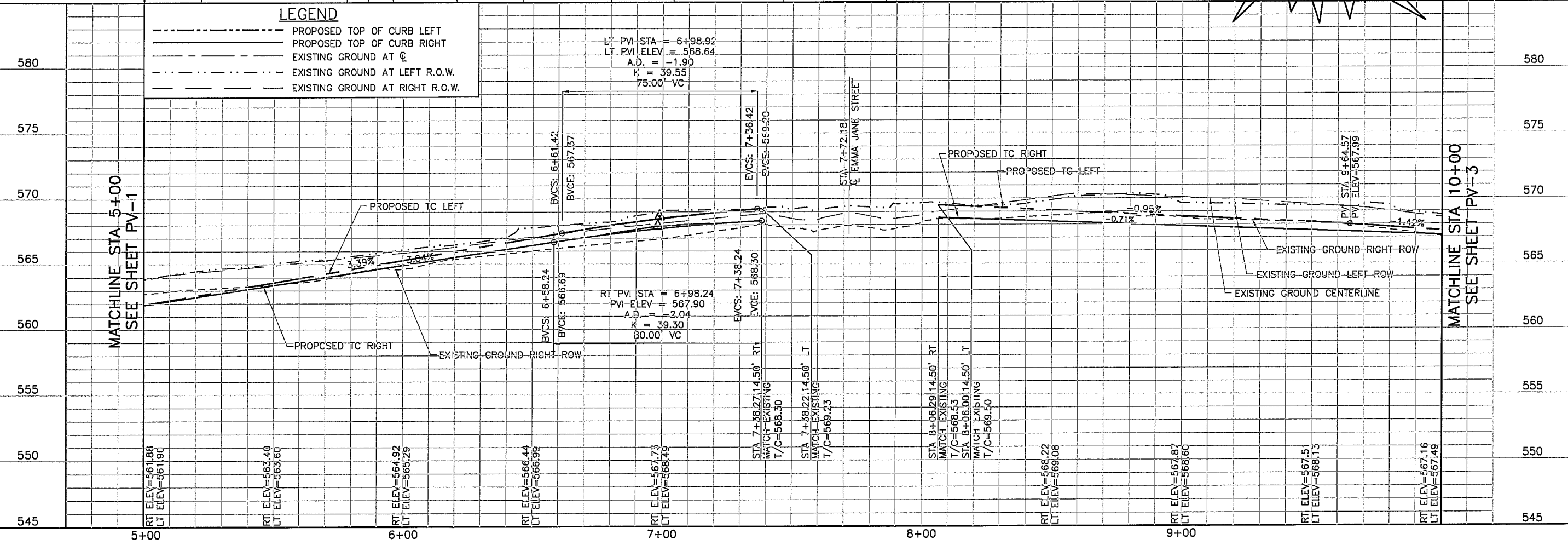
NOTE:  
 CONTRACTOR SHALL NOT REMOVE FENCE PRIOR TO APPROVAL FROM OWNER

**CAUTION!!!**  
 EXISTING GAS MAIN, FIBER OPTIC LINES AND OVERHEAD ELECTRIC LINES IN AREA. CONTRACTOR TO LOCATE PRIOR TO CONSTRUCTION AND COORDINATE ANY REQUIRED RELOCATION

SCALE:  
 HORIZ: 1" = 20'  
 VERT 1" = 4'

**LEGEND**

- PROPOSED TOP OF CURB LEFT
- PROPOSED TOP OF CURB RIGHT
- EXISTING GROUND AT C
- EXISTING GROUND AT LEFT R.O.W.
- EXISTING GROUND AT RIGHT R.O.W.



CITY OF ROCKWALL, TEXAS  
**SAM HOUSTON STREET IMPROVEMENTS**  
 CIVIL  
**PAVING PLAN AND PROFILE**  
 STA 5+00 TO 10+00

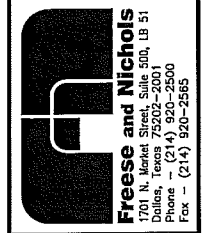
NO. \_\_\_\_\_ SHEET **PV-2** SEQ. 7 OF 31

DATE: \_\_\_\_\_ DESIGNED: CCB MJP REVISION: \_\_\_\_\_ CHECKED: KRJ FILE NAME: CV-ROK-PP-ROAD02.dwg

RECORD: \_\_\_\_\_ ISSUED FOR CONSTRUCTION: \_\_\_\_\_ VERIFY SCALE: \_\_\_\_\_

Bar is one inch on original drawing, if not one inch on this sheet, adjust scale.

ROK06451  
 DATE: MAR 2008  
 DESIGNED: CCB  
 MJP  
 KRJ 12/30/08  
 KRJ 03/19/08  
 KRJ  
 KRJ



ISSUED FOR CONSTRUCTION  
 ON 3/19/2008

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JENNIFER JOHNSON, P.E., ALTERNATE REGISTERED PROFESSIONAL ENGINEER UNDER THE T&E BOARD PRACTICE ACT

**BENCHMARKS:**

BM#2 CHISELED BOX CUT ON BACK OF CONCRETE CURB IN THE CENTER OF A 10' FOOT CURB INLET, LOCATED AT SOUTHWEST CORNER OF BOURN AND SAM HOUSTON ST. ELEV=567.76

**CURVE DATA**  
 R=1200.0  
 L=11.31  
 TAN=5.66  
 Δ=0°32'24"

STA. 10+26.04, 14' LT  
 CONSTRUCT:  
 1-5' CURB INLET D2  
 TOI=567.12  
 FL=562.96  
 HGL=564.32  
 (FIELD VERIFY)

POWER POLE TO BE RELOCATED BY OTHERS

CHARLES C. MEDFORD AND WIFE  
 DONIKA R. MEDFORD  
 207 BOURN  
 VOLUME 1112, PG. 186  
 D.R.R.C.T.  
 REMOVE AND RELOCATE STOP SIGN BUILDING

POWER POLE TO BE RELOCATED BY OTHERS

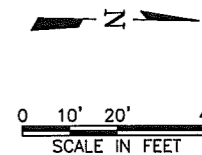
CHARLES RAY HUMPHREY  
 808 SAM HOUSTON  
 VOLUME 1523, PG. 26  
 D.R.R.C.T.

ALMA DIXON  
 804 SAM HOUSTON  
 ROCKWALL, TX 75087

CALVIN JACKSON  
 802 SAM HOUSTON  
 ROCKWALL, TX 75087

POWER POLE TO BE RELOCATED BY OTHERS

JOHN L. MCGUIRE  
 800 SAM HOUSTON  
 ROCKWALL, TX 75087



MATCHLINE STA 10+00  
 SEE SHEET PV-2

STA. 10+22.62, 14' RT  
 CONSTRUCT:  
 1-15' CURB INLET D1  
 TOI = 567.00  
 FL = 562.93  
 HGL=564.32  
 (FIELD VERIFY)

SPENCER NEFAME  
 VOLUME PAGE  
 D.R.R.C.T.  
 STA. 10+38.08  
 END CONC. PAVEMENT  
 MATCH EXISTING GRADE  
 WITH LONGITUDINAL  
 BUTT JOINT

REMOVE AND REPLACE 70 SY CONC. PAVEMENT FOR SEWER LINE CONSTRUCTION

BOURN ST.  
 (50' RIGHT-OF-WAY)

**CURVE DATA**  
 R=1000.0  
 L=46.44  
 TAN=23.23  
 Δ=02°40'02"

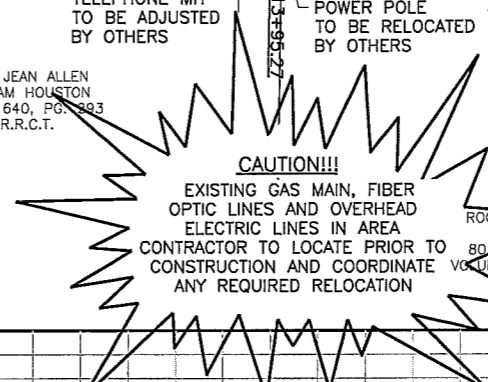
STA. 10+86.51  
 BEGIN CONC. PAVEMENT  
 MATCH EXISTING GRADE  
 SAWCUT AND CONNECT TO  
 EX. CONC. WITH 24"  
 #6 DOWELS AT 12"  
 CENTERS

NEW CALDONIA BAPTIST  
 CHURCH  
 301 BOURN  
 VOLUME 2268, PG. 136  
 D.R.R.C.T.

POINT TABLE

PNT	NORTHING	EASTING	DESCRIPTION	ELEVATION
26	7,024,366.13	2,594,777.01	END CONCRETE	TC=566.94
27	7,024,366.53	2,594,806.02	END CONCRETE	TC=566.89
28	7,024,436.66	2,594,802.13	PC	TC=566.10
29	7,024,436.47	2,594,773.61	PC	TC=566.74
30	7,024,414.63	2,594,753.11	PT	TC=567.59
31	7,024,414.78	2,594,825.49	PT	TC=565.91
32	7,024,806.08	2,594,771.15	END CONCRETE	TC=564.46
33	7,024,806.48	2,594,799.15	END CONCRETE	TC=563.34

SAM HOUSTON ST.  
 (50' RIGHT-OF-WAY)



This Record Drawing is a representation of the sealed engineering contract drawings for this project, modified by addenda, change order, field order, and information furnished by the contractor. The contractor is responsible for verifying that the drawings are based on accurate observations performed during construction and information furnished by others. The original information furnished by others is on file at the offices of the engineer. FOR INFORMATION ONLY. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION. (BY) 725-7200-1895 (RT) 725-7200-1895 RECORD DRAWINGS PREPARED ON: 12/30/08

SCALE:  
 HORIZ: 1" = 20'  
 VERT 1" = 4'

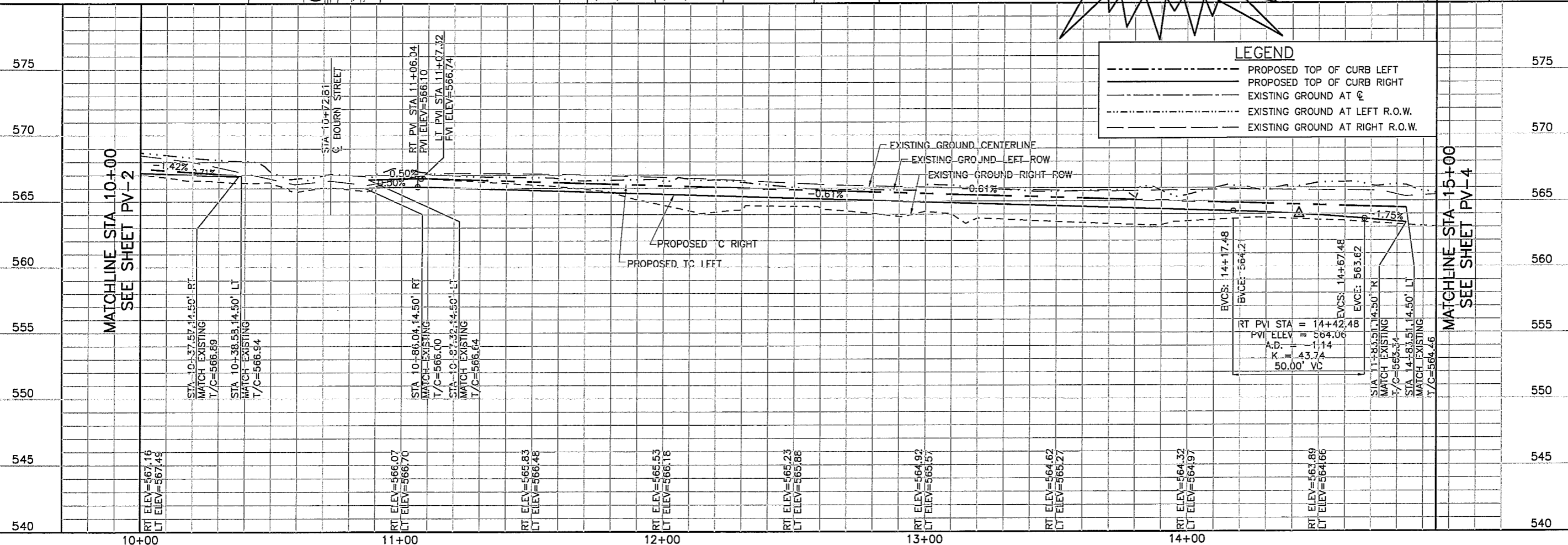
MATCHLINE STA 15+00  
 SEE SHEET PV-4

MATCHLINE STA 10+00  
 SEE SHEET PV-2

MATCHLINE STA 15+00  
 SEE SHEET PV-4

LEGEND

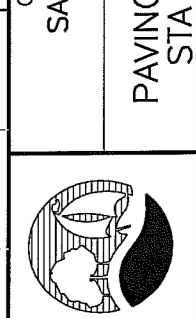
- PROPOSED TOP OF CURB LEFT
- PROPOSED TOP OF CURB RIGHT
- EXISTING GROUND AT C
- EXISTING GROUND AT LEFT R.O.W.
- EXISTING GROUND AT RIGHT R.O.W.



ISSUED FOR CONSTRUCTION  
 ON: 3/19/2008

Freese and Nichols  
 CIVIL  
 801 SAM HOUSTON  
 VOLUME 4075, PG. 237  
 D.R.R.C.T.

CITY OF ROCKWALL, TEXAS  
 SAM HOUSTON STREET  
 IMPROVEMENTS  
 STA 10+00 TO 15+00



NO.	ISSUE	DATE	BY	FOR
1	ISSUED FOR CONSTRUCTION	03/19/08	KRJ	FOR CONSTRUCTION
2	VERIFY SCALE			

Bar is one inch on original drawing, if not one inch on this sheet, adjust scale.

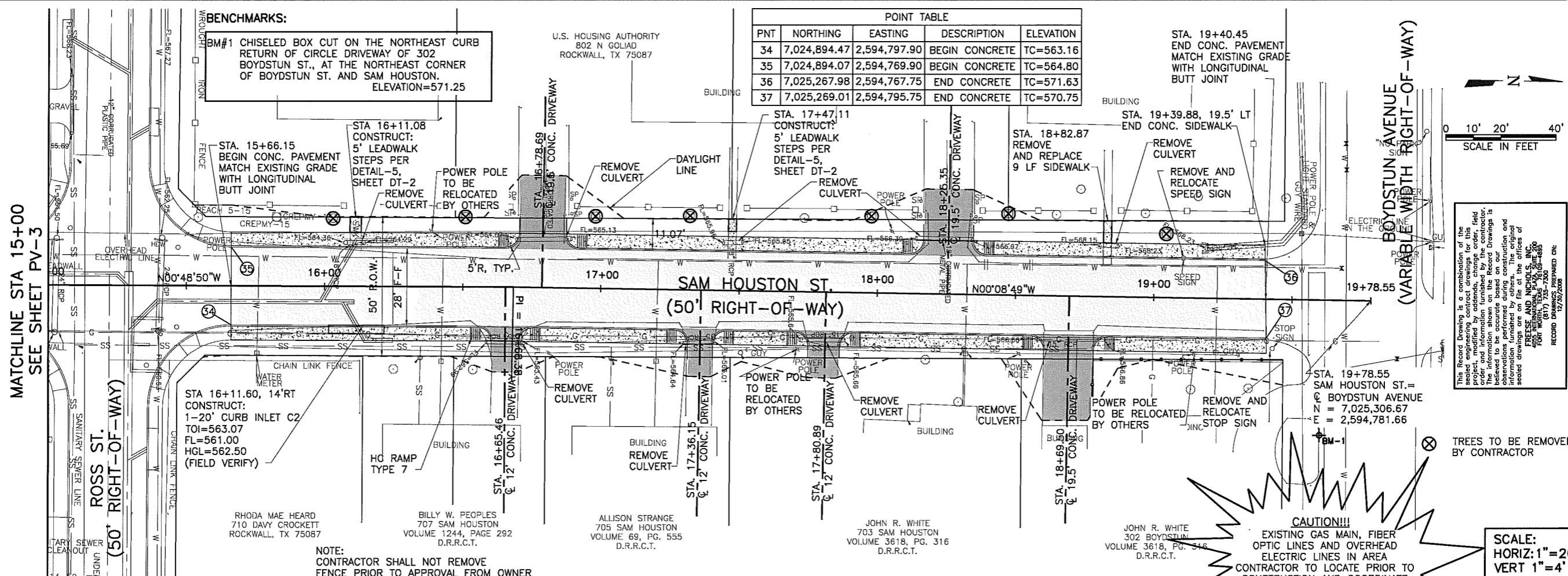
FILE NAME: CV-ROK-PP-ROAD03.dwg  
 CHECKED: KRJ  
 DESIGNED: CCB  
 DRAWN: KRJ  
 DATE: MAR 2008  
 ROK06451

SHEET: PV-3  
 SEQ: 8 OF 31

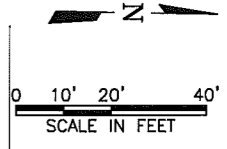
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 MAY 11 2007 4:42:55 PM  
 5 REFERENCE FILES: N:\BASE CV-ALL-PL-SHD, N:\BASE CV-ALL-PL-SITE, N:\BASE CV-ALL-PL-TOPD, N:\BASE CV-ALL-PP-ROAD, and N:\STANDARD 34BORDER



R:\R0K06451\DRAWINGS\CV-R0K-PP-ROAD04.DWG LAYOUT: Layout1 (4)  
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POINT TABLE				
PNT	NORTHING	EASTING	DESCRIPTION	ELEVATION
34	7,024,894.47	2,594,797.90	BEGIN CONCRETE	TC=563.16
35	7,024,894.07	2,594,769.90	BEGIN CONCRETE	TC=564.80
36	7,025,267.98	2,594,767.75	END CONCRETE	TC=571.63
37	7,025,269.01	2,594,795.75	END CONCRETE	TC=570.75

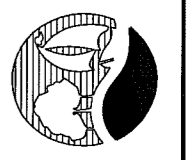
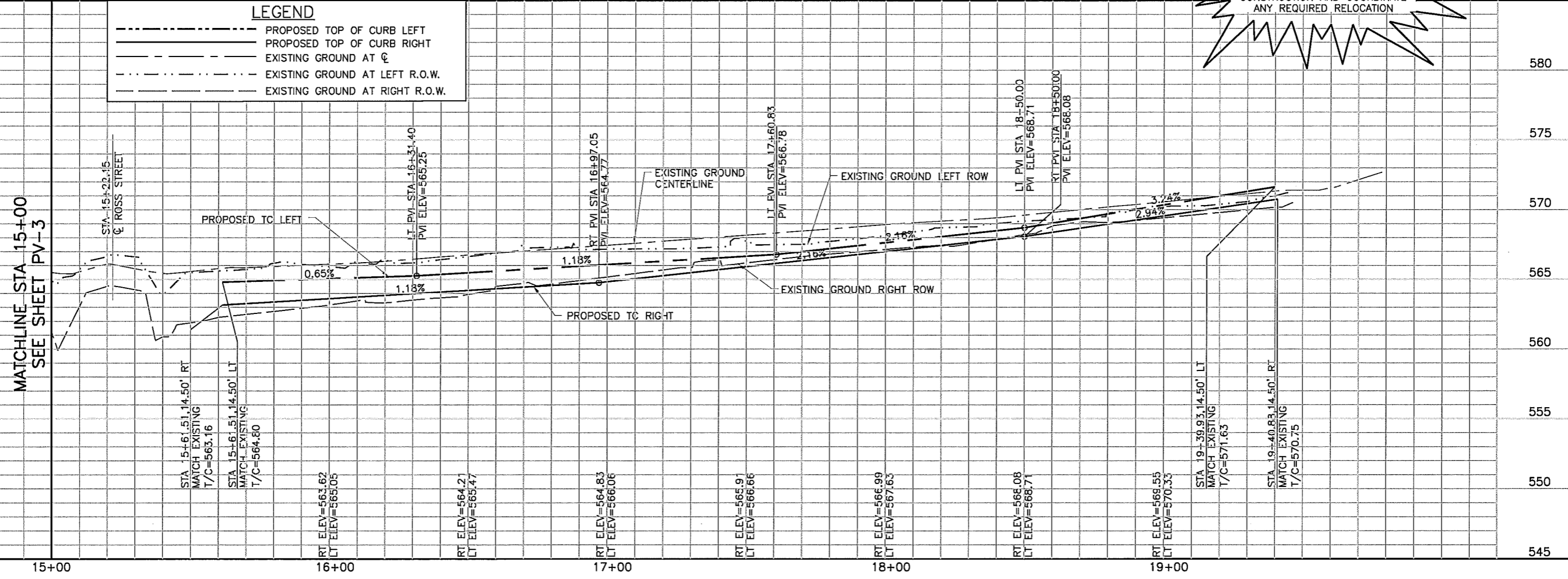


This Record Drawing is a combination of the original and modified drawings for the field project and information furnished by the contractor. The information shown on the Record Drawings is believed to be accurate based on our position and information furnished by others. The original sealed drawings are on file at the offices of  
**FRESE AND NICHOLS, INC.**  
 1401 NORTH TEXAS  
 ROCKWALL, TEXAS 75087  
 PHONE (214) 920-2500  
 FAX (214) 920-2585  
 RECORD # 17/20/2008

ISSUED FOR CONSTRUCTION  
 ON 3/19/2008  
 THE SEAL APPLIED ON THIS DOCUMENT WAS  
 MADE VALID BY SEALING THE ORIGINAL  
 DRAWING OF A SEaled RECORD WITHOUT PROPER  
 ATTENTION TO THE TEXAS ENGINEERING PRACTICE ACT  
 PENALTY: \$500 PER DAY

**Freese and Nichols**  
 CIVIL  
 1401 NORTH TEXAS  
 ROCKWALL, TEXAS 75087  
 PHONE (214) 920-2500  
 FAX (214) 920-2585

CITY OF ROCKWALL, TEXAS  
**SAM HOUSTON STREET IMPROVEMENTS**  
 CIVIL  
**PAVING PLAN AND PROFILE**  
**STA 15+00 TO 19+80.10**



NO.	ISSUE	BY	DATE	FROM JOB NO.
0	ISSUED FOR CONSTRUCTION	KRU	03/19/08	R0K06451
1	REVISION	KRU	03/19/08	R0K06451

RECORD  
 ISSUED FOR CONSTRUCTION  
 VERIFY SCALE  
 Bar is one inch on original drawing; if not one inch on this sheet, adjust scale.

SHEET: **PV-4**  
 SEQ: **9 OF 31**



DRAINAGE AREA RATIONAL METHOD

D.A. No.	D.A. Area	C	Time to Inlet	Intensity	Q100	Inlet ID
	acres		min	in/hr	cfs	
1	2	3	4	5	6	7
A1	0.26	0.90	10	9.80	2.29	A1
A2	2.85	0.50	10	9.80	13.97	A2
A3	0.41	0.50	10	9.80	2.01	B1
A4	0.29	0.90	10	9.80	2.56	
A5	1.54	0.50	10	9.80	7.55	
A7	0.87	0.50	10	9.80	4.26	D1
A8	0.19	0.50	10	9.80	0.93	D2
A9	0.70	0.50	10	9.80	3.43	
A10	0.19	0.50	10	9.80	0.93	
A12	2.00	0.50	10	9.80	9.80	C1
A13	0.40	0.50	10	9.80	1.96	
A14	0.39	0.50	10	9.80	1.91	
A15	0.41	0.90	10	9.80	3.62	
A16	0.90	0.50	10	9.80	4.41	
A17	1.78	0.50	10	9.80	8.72	C2
A18	1.77	0.50	10	9.80	8.67	
A19	1.63	0.50	10	9.80	7.99	
A20	1.62	0.50	10	9.80	7.94	
A21	0.14	0.90	10	9.80	1.21	
A22	0.38	0.50	10	9.80	1.86	
A23	0.82	0.50	10	9.80	4.02	
A24	1.11	0.50	10	9.80	5.44	
A25	0.29	0.90	10	9.80	2.56	
A26	0.48	0.50	10	9.80	2.35	
A27	0.85	0.50	10	9.80	4.17	
A28	0.37	0.90	10	9.80	3.26	
A29	0.24	0.90	10	9.80	2.12	
A30	1.37	0.50	10	9.80	6.71	
A31	0.28	0.90	10	9.80	2.47	

INLET CAPACITY CALCULATIONS

GUTTER FLOW / INLET COMPUTATIONS																											
INLET			D.A. No.	D.A. Area	C	Time to Inlet	Intensity	Q	CO	QT	n	SL	SX	a	W	S'W	SW	Eo	Se	y	T	LR	L	E	Qi	QT-Qi	Bypass Target:
ID	LOCATION	TYPE		acres		min	in/hr	cfs	cfs	cfs	constant	ft/ft	ft/ft	ft	ft	ft/ft	ft/ft		ft/ft	ft	ft	ft	ft		cfs	cfs	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
*A1	SAM HOUSTON 2+83 (RT)	Sag	A1	0.26	0.90	10	9.80	2.29	0.00	2.29	0.02	0.0300	0.021	0.58	1.50	0.39	0.41	0.42	0.18	0.17	8.03	10.00	10.00	1.00	2.29	0.00	
*A2	SAM HOUSTON 2+83 (LT)	Sag	A2	2.85	0.50	10	9.80	13.97	0.00	13.97	0.02	0.0300	0.021	0.58	1.50	0.39	0.41	0.23	0.11	0.33	15.82	11.00	15.00	1.00	13.97	0.00	
B1	SAM HOUSTON 4+85 (LT)	On Grade	A3	0.41	0.50	10	9.80	2.01	0.00	2.01	0.02	0.0242	0.021	0.58	1.50	0.39	0.41	0.43	0.19	0.17	8.01	8.20	10.00	1.00	2.01	0.00	
	EMMA JANE STREET	On Grade	A4	0.29	0.90	10	9.80	2.56	0.00	2.56	0.02	0.0185	0.021	0.58	1.50	0.39	0.41	0.38	0.17	0.19	9.22	8.92	10.00	1.00	2.56	0.00	
	EMMA JANE STREET	On Grade	A5	1.54	0.50	10	9.80	7.55	0.00	7.55	0.02	0.0185	0.021	0.58	1.50	0.39	0.41	0.26	0.12	0.29	13.83	16.88	10.00	0.59	4.47	3.08	A29
D1	SAM HOUSTON 10+28 (RT)	On Grade	A7	0.87	0.50	10	9.80	4.26	0.15	4.41	0.02	0.0071	0.021	0.58	1.50	0.39	0.41	0.27	0.12	0.28	13.53	11.37	15.00	1.00	4.41	0.00	
D2	SAM HOUSTON 10+29 (LT)	On Grade	A8	0.19	0.50	10	9.80	0.93	0.00	0.93	0.02	0.0142	0.021	0.58	1.50	0.39	0.41	0.50	0.21	0.14	6.63	5.95	5.00	0.84	0.78	0.15	D1
	BOURN AVENUE	On Grade	A9	0.70	0.50	10	9.80	3.43	0.00	3.43	0.02	0.0261	0.021	0.58	1.50	0.39	0.41	0.36	0.16	0.20	9.65	15.47	10.00	0.65	2.22	1.21	Offsite
	BOURN AVENUE	On Grade	A10	0.19	0.50	10	9.80	0.93	0.00	0.93	0.02	0.0261	0.021	0.58	1.50	0.39	0.41	0.54	0.23	0.12	5.92	7.57	10.00	1.00	0.93	0.00	
C1	SAM HOUSTON 14+47 (RT)	On Grade	A12	2.00	0.50	10	9.80	9.80	0.00	9.80	0.02	0.0175	0.021	0.58	1.50	0.39	0.41	0.24	0.11	0.32	15.41	23.01	20.00	0.87	8.52	1.28	A14
	ROSS STREET	On Grade	A13	0.40	0.50	10	9.80	1.96	0.00	1.96	0.02	0.0341	0.021	0.58	1.50	0.39	0.41	0.45	0.20	0.15	7.44	12.64	10.00	0.79	1.55	0.41	A14
	ROSS STREET	On Grade	A14	0.39	0.50	10	9.80	1.91	0.41	2.32	0.02	0.0341	0.021	0.58	1.50	0.39	0.41	0.43	0.19	0.16	7.92	13.81	10.00	0.72	1.68	0.64	Offsite
	ROSS STREET	On Grade	A15	0.41	0.90	10	9.80	3.62	0.00	3.62	0.02	0.0341	0.021	0.58	1.50	0.39	0.41	0.37	0.16	0.19	9.36	17.35	10.00	0.58	2.08	1.53	A16
	ROSS STREET	On Grade	A16	0.90	0.50	10	9.80	4.41	1.53	5.94	0.02	0.0341	0.021	0.58	1.50	0.39	0.41	0.32	0.14	0.23	11.27	22.21	10.00	0.45	2.67	3.27	Offsite
C2	SAM HOUSTON 16+11 (RT)	On Grade	A17	1.78	0.50	10	9.80	8.72	0.00	8.72	0.02	0.0118	0.021	0.58	1.50	0.39	0.41	0.23	0.11	0.33	15.89	19.17	20.00	1.00	8.72	0.00	

LEGEND:  
 Q-DISCHARGE CALCULATED FOR D.A.  
 CO-CARRYOVER FROM UPSTREAM INLET  
 QT-ACTUAL DISCHARGE=Q+CO  
 n-MANNING'S ROUGHNESS COEFFICIENT  
 SL-LONGITUDINAL SLOPE OF ROADWAY  
 Sx/Sw-CROSS SLOPE OR GUTTER SLOPE

y-GUTTER DEPTH OF FLOW  
 W-WIDTH OF GUTTER CONVEYING FLOW  
 E-EFFICIENCY  
 \*-INLETS IN SAG, WEIR EQUATION (CALCULATED y FROM LENGTH OF INLET)  
 Lr-REQUIRED INLET FOR 100% INTERCEPTION  
 L-ACTUAL INLET LENGTH  
 Qi-ACTUAL INLET INTERCEPTION

T-TOP WIDTH OF SPREAD  
 E-EFFICIENCY  
 \*-INLETS IN SAG, WEIR EQUATION (CALCULATED y FROM LENGTH OF INLET)  
 NOTES:  
 AREAS A18-A31 ARE CAPTURED IN OFF-SITE SYSTEM.

This Record Drawing is a combination of the original drawings and any amendments, field project, modified by addenda, change order, field order and information furnished by the contractor. The information shown on the Record Drawings is based on the information furnished by the contractor and observations performed during construction and information furnished by others. The original sealed drawings are on file at the offices of FRESSE AND NICHOLS, INC. 1701 N. Market Street, Suite 500, LB 51 Dallas, Texas 75202-2001 Phone: (214) 942-2550 Fax: (214) 942-2555 RECORD DRAWINGS PREPARED ON: 12/29/2008

ISSUED FOR CONSTRUCTION ON 3/19/2008

**Fresse and Nichols**  
 1701 N. Market Street, Suite 500, LB 51  
 Dallas, Texas 75202-2001  
 Phone: (214) 942-2550  
 Fax: (214) 942-2555

CITY OF ROCKWALL, TEXAS  
 SAM HOUSTON STREET  
 IMPROVEMENTS  
 HYDRAULIC CALCULATIONS



NO. ISSUE	BY	DATE	FROM JOB NO.	ROK06451
			DATE	MAR 2008
			DESIGNED	CCB
			DRAWN	CCB
			REVISED	CCB
			FILE NAME	KR12/30/08
			FILE NAME	KR12/30/08
			FILE NAME	CV-ROK-PL-DRNG02.dwg
			FILE NAME	CV-ROK-PL-DRNG02.dwg

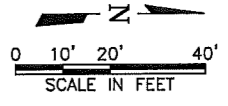
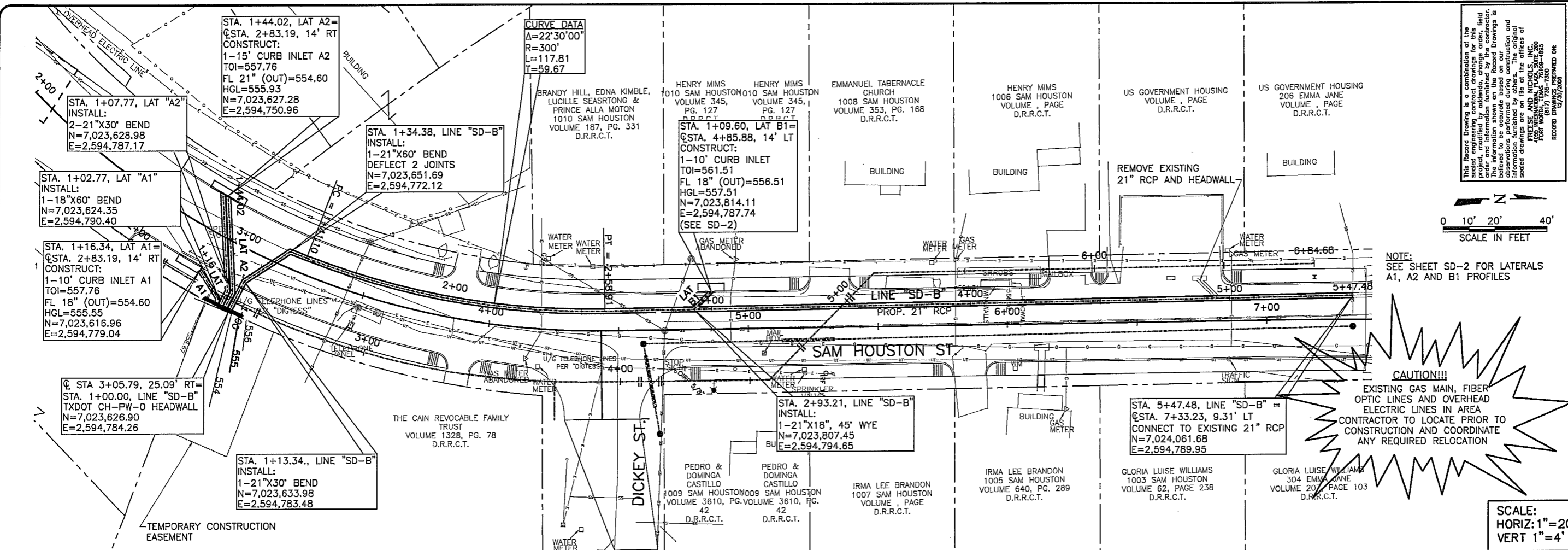
RECORD FOR CONSTRUCTION  
 Bar is one inch on original  
 Verify scale  
 0  
 this sheet, adjust scale.

SHEET DA-2  
 SEQ. 11 OF 31

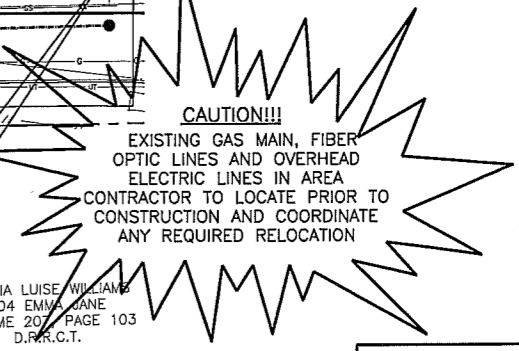
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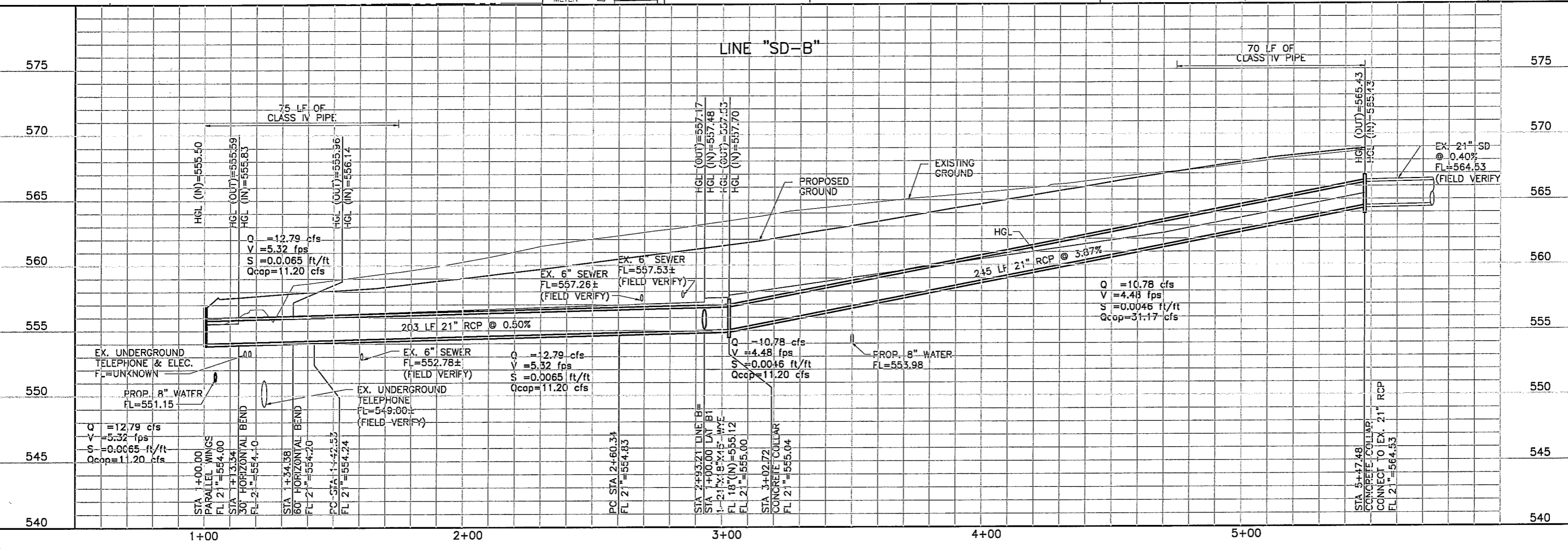
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NOTE: SEE SHEET SD-2 FOR LATERALS A1, A2 AND B1 PROFILES



SCALE:  
 HORIZ: 1" = 20'  
 VERT 1" = 4'



ISSUED FOR CONSTRUCTION  
 03/19/2008

**Freese and Nichols**  
 1701 N. Market Street, Suite 500, LB 91  
 Dallas, Texas 75202-2600  
 Phone - (214) 920-2500  
 Fax - (214) 920-2565

CITY OF ROCKWALL, TEXAS  
**SAM HOUSTON STREET IMPROVEMENTS**  
 PLAN AND PROFILE

**STORM DRAIN LINE "SD-B"**

NO.	ISSUE	DATE	BY	FOR
1	ISSUED FOR CONSTRUCTION	03/19/08	KRU	CV-ROK-PP-SDN01.dwg
2	RECORD	12/30/08	KRU	
3	DESIGNED	MAR 2008	CCB	
4	DRAWN		MLP	
5	CHECKED		KRU	
6	FILE NAME			

Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.

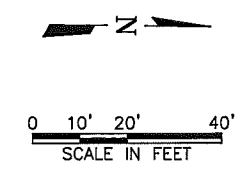
SHEET **SD-1**  
 13 OF 31



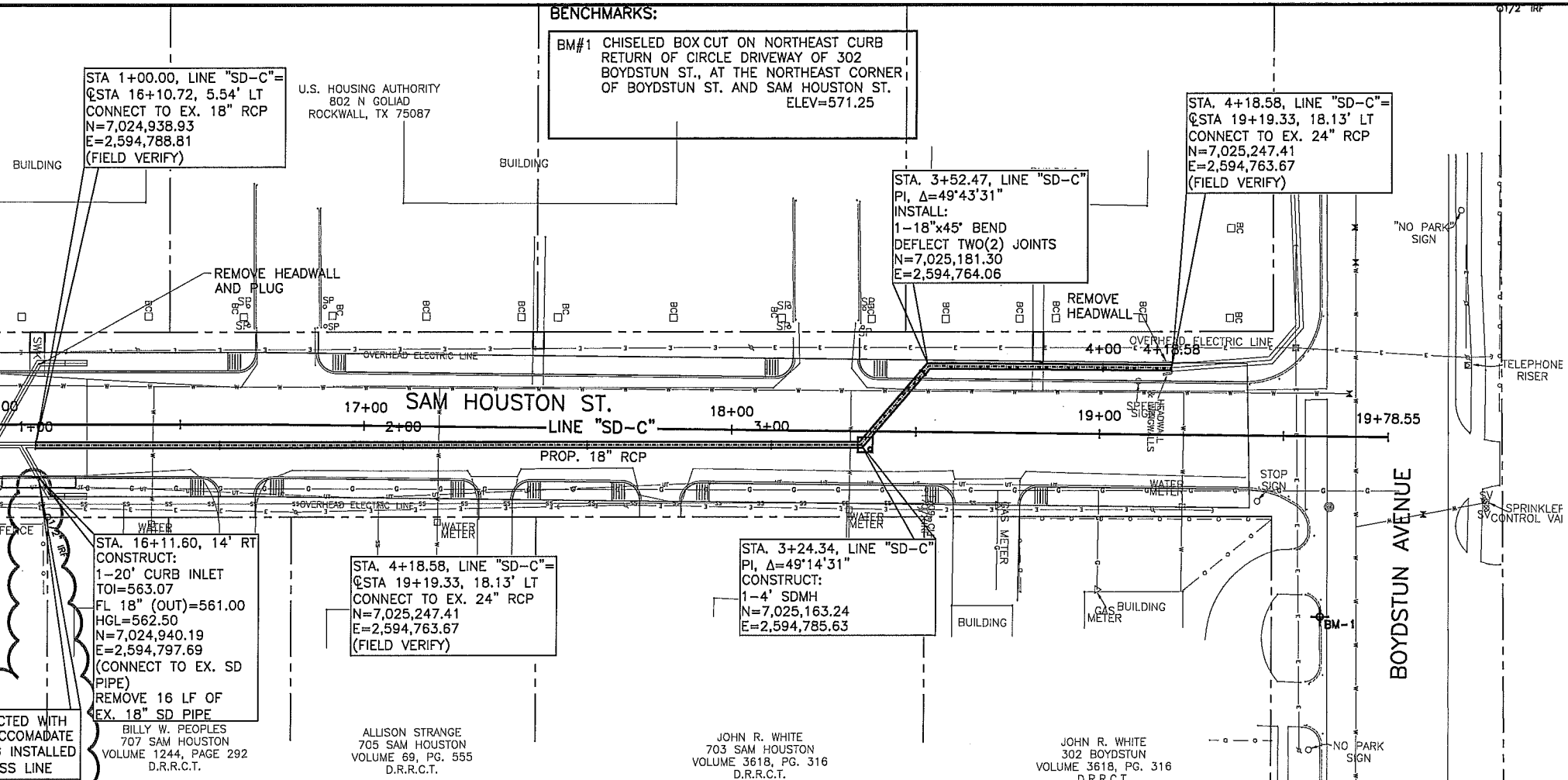
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 MAY 23 2007 9:54:24 P.M. LRS: 1.00 PLS: 0 TWST: 2692.00  
 4 REFERENCE FILES: N:\V\F\BASE\CV-ALL-PL-SITE, N:\V\F\BASE\CV-ALL-PL-TOPO, N:\V\F\BASE\CV-ALL-PR-SDIN-C and N:\STANDARD\34BORDER

**BENCHMARKS:**  
 BM#1 CHISELED BOX CUT ON NORTHEAST CURB  
 RETURN OF CIRCLE DRIVEWAY OF 302  
 BOYDSTUN ST., AT THE NORTHEAST CORNER  
 OF BOYDSTUN ST. AND SAM HOUSTON ST.  
 ELEV=571.25

This Record Drawing is a combination of the sealed engineering contract drawings for this field project and information furnished by the contractor. The information shown on the Record Drawing is believed to be accurate based on our inspection and information furnished by others. The original sealed drawings are on file in the offices of  
**FREESTE AND NICHOLS, INC.**  
 1701 N. Market Street, Suite 300, LB 51  
 Dallas, Texas 75202-2001  
 Phone - (214) 920-2500  
 Fax - (214) 920-2500  
 RECORD DRAWING MARKED ON 12/20/2008



MATCHLINE STA 16+00  
 SEE SHEET SD-2



**CAUTION!!!**  
 EXISTING GAS MAIN, FIBER OPTIC LINES AND OVERHEAD ELECTRIC LINES IN AREA  
 CONTRACTOR TO LOCATE PRIOR TO CONSTRUCTION AND COORDINATE ANY REQUIRED RELOCATION

SCALE:  
 HORIZ: 1"=20'  
 VERT 1"=4'

CURB INLET CONSTRUCTED WITH STEPPED FLOOR TO ACCOMMODATE 20"x12" STEEL CASING INSTALLED AROUND EXISTING 8" SS LINE

STA. 16+11.60, 14' RT  
 CONSTRUCT:  
 1-20' CURB INLET  
 TOI=563.07  
 FL 18" (OUT)=561.00  
 HGL=562.50  
 N=7,024,940.19  
 E=2,594,797.69  
 (CONNECT TO EX. SD PIPE)  
 REMOVE 16 LF OF EX. 18" SD PIPE  
 BILLY W. PEOPLES  
 707 SAM HOUSTON  
 VOLUME 1244, PAGE 292  
 D.R.R.C.T.

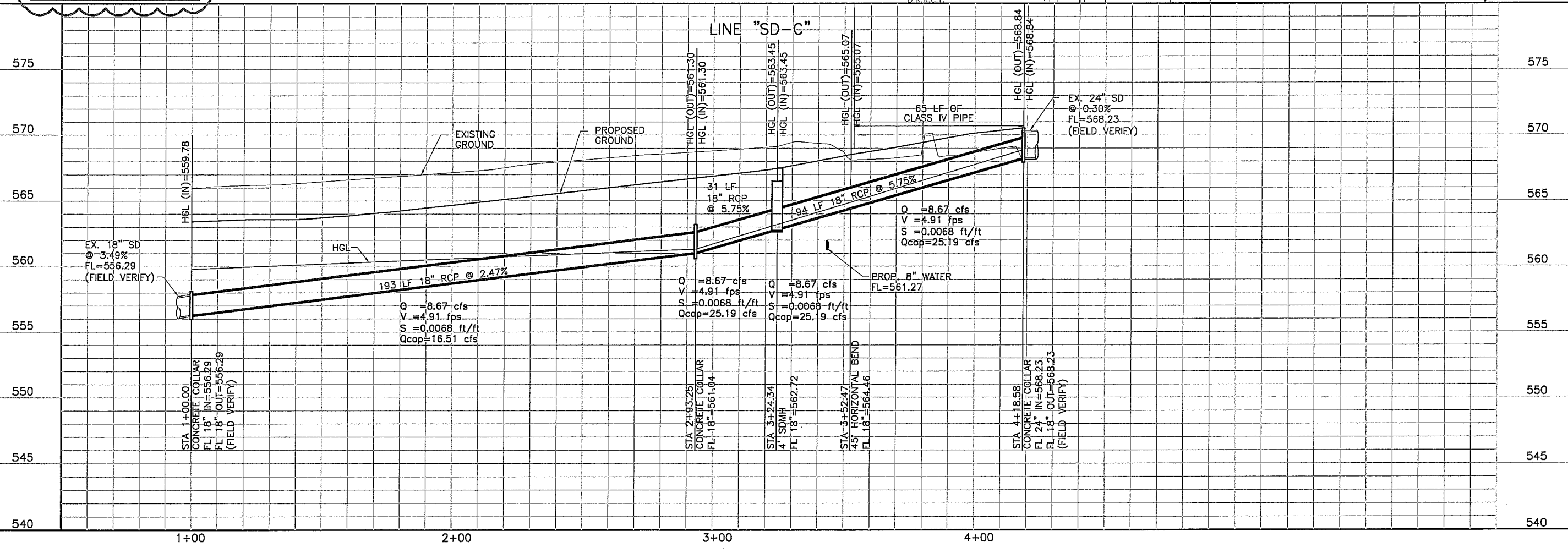
STA. 4+18.58, LINE "SD-C"  
 @STA 19+19.33, 18.13' LT  
 CONNECT TO EX. 24" RCP  
 N=7,025,247.41  
 E=2,594,763.67  
 (FIELD VERIFY)

STA. 3+24.34, LINE "SD-C"  
 PI, Δ=49'14'31"  
 CONSTRUCT:  
 1-4' SDMH  
 N=7,025,163.24  
 E=2,594,785.63

ALLISON STRANGE  
 705 SAM HOUSTON  
 VOLUME 69, PG. 555  
 D.R.R.C.T.

JOHN R. WHITE  
 703 SAM HOUSTON  
 VOLUME 3618, PG. 316  
 D.R.R.C.T.

JOHN R. WHITE  
 302 BOYDSTUN  
 VOLUME 3618, PG. 316  
 D.R.R.C.T.



CITY OF ROCKWALL, TEXAS  
 SAM HOUSTON STREET IMPROVEMENTS  
 PLAN AND PROFILE  
 STORM DRAIN LINE "SD-C"

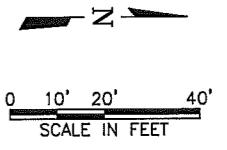
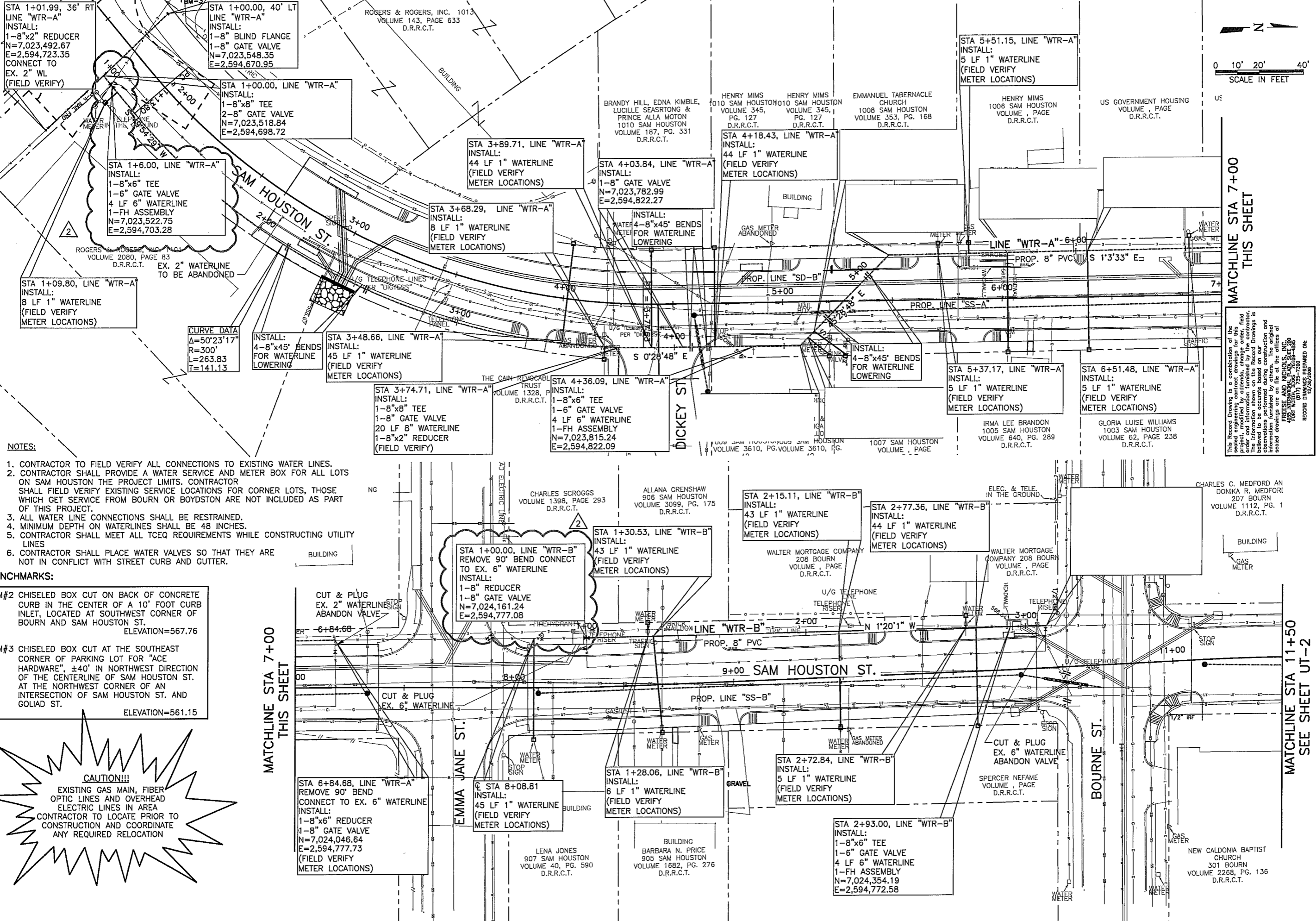
ISSUED FOR CONSTRUCTION  
 03/19/2008

U.S. STATE OF TEXAS  
 FREESTE AND NICHOLS, INC.  
 1701 N. MARKET STREET, SUITE 300, LB 51  
 DALLAS, TEXAS 75202-2001  
 PHONE - (214) 920-2500  
 FAX - (214) 920-2500

NO.	ISSUE	DATE	BY	FOR JOB NO.
1	ISSUED FOR CONSTRUCTION	12/30/08	KRU	ROK06451
2	REVISION	03/19/08	KRU	ROK06451

RECORD FOR CONSTRUCTION  
 VERIFY SCALE: Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.

SHEET: SD-3  
 SEQ.: 15 OF 31



MATCHLINE STA 7+00  
THIS SHEET

MATCHLINE STA 11+50  
SEE SHEET UT-2

- NOTES:**
1. CONTRACTOR TO FIELD VERIFY ALL CONNECTIONS TO EXISTING WATER LINES.
  2. CONTRACTOR SHALL PROVIDE A WATER SERVICE AND METER BOX FOR ALL LOTS ON SAM HOUSTON THE PROJECT LIMITS. CONTRACTOR SHALL FIELD VERIFY EXISTING SERVICE LOCATIONS FOR CORNER LOTS, THOSE WHICH GET SERVICE FROM BOURN OR BOYDSTON ARE NOT INCLUDED AS PART OF THIS PROJECT.
  3. ALL WATER LINE CONNECTIONS SHALL BE RESTRAINED.
  4. MINIMUM DEPTH ON WATERLINES SHALL BE 48 INCHES.
  5. CONTRACTOR SHALL MEET ALL TCEQ REQUIREMENTS WHILE CONSTRUCTING UTILITY LINES
  6. CONTRACTOR SHALL PLACE WATER VALVES SO THAT THEY ARE NOT IN CONFLICT WITH STREET CURB AND GUTTER.

- BENCHMARKS:**
- BM#2 CHISELED BOX CUT ON BACK OF CONCRETE CURB IN THE CENTER OF A 10' FOOT CURB INLET, LOCATED AT SOUTHWEST CORNER OF BOURN AND SAM HOUSTON ST.  
ELEVATION=567.76
- BM#3 CHISELED BOX CUT AT THE SOUTHEAST CORNER OF PARKING LOT FOR "ACE HARDWARE", ±40' IN NORTHWEST DIRECTION OF THE CENTERLINE OF SAM HOUSTON ST. AT THE NORTHWEST CORNER OF AN INTERSECTION OF SAM HOUSTON ST. AND GOLIAD ST.  
ELEVATION=561.15

**CAUTION!!!**

EXISTING GAS MAIN, FIBER OPTIC LINES AND OVERHEAD ELECTRIC LINES IN AREA  
CONTRACTOR TO LOCATE PRIOR TO CONSTRUCTION AND COORDINATE ANY REQUIRED RELOCATION

This Record Drawing is a combination of the original drawings for the field project, modified by addenda, and the field order and information furnished by the contractor. The information shown on the Record Drawings is believed to be accurate based on a check and information furnished by others. The original sealed drawings are on file at the offices of  
**FREES AND NICHOLS, INC.**  
FORT WORTH, TEXAS 76104-1850  
(817) 735-7200  
FAX (817) 735-7200  
RECORD DRAWING NO. 12/28/2008

**CITY OF ROCKWALL, TEXAS**

**SAM HOUSTON STREET IMPROVEMENTS**

**PLAN AND PROFILE WATERLINE "WTR-A" & "WTR-B"**

NO. ISSUE

BY	DATE	DESCRIPTION

RECORD FOR CONSTRUCTION

ISSUED FOR CONSTRUCTION

Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.

FILE NAME: CV-ROK-PP-WAT01.dwg

SHEET **UT-1**

SEQ. 16 OF 31

**Freese and Nichols**

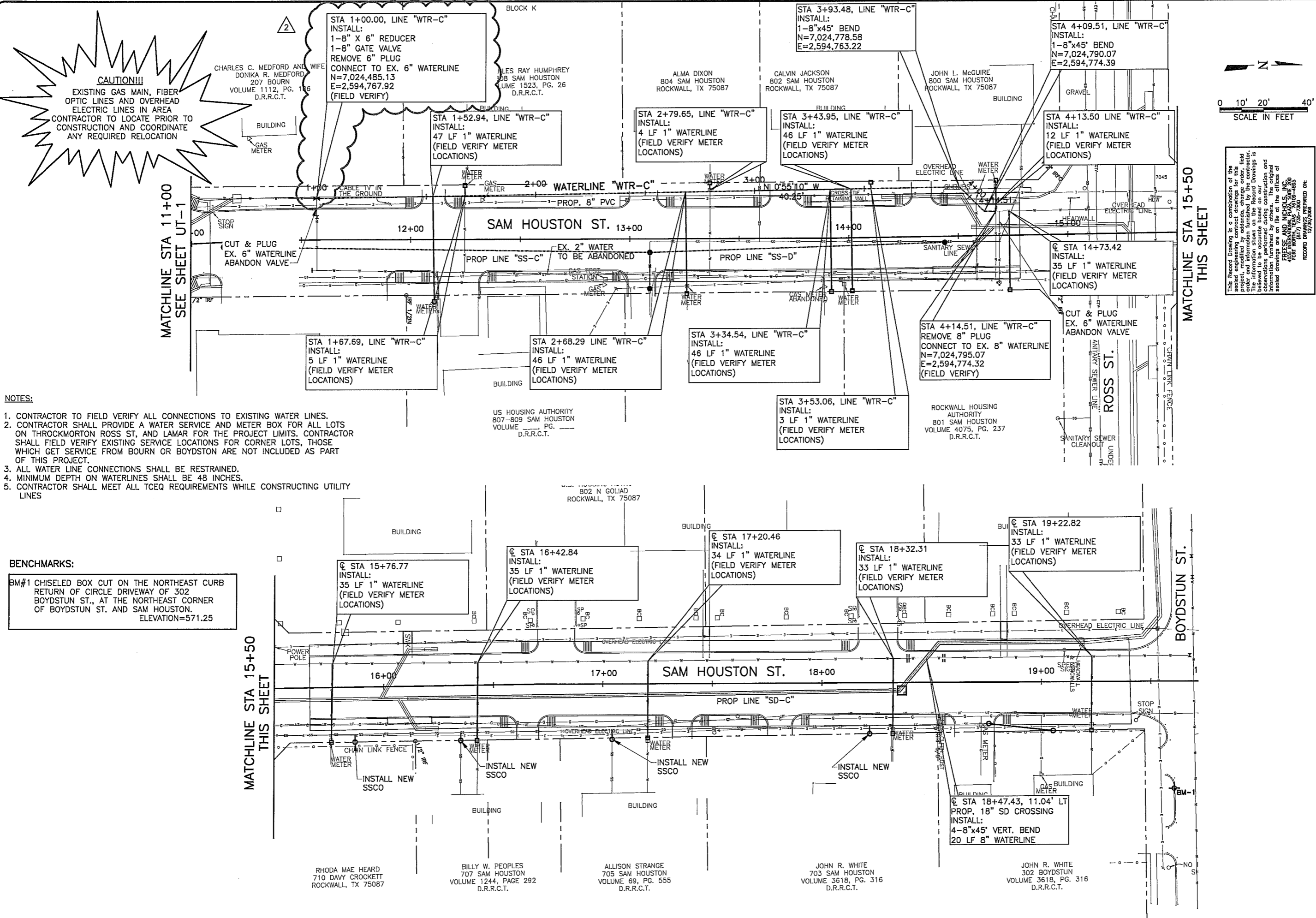
1011 N. Hurst  
Denton, TX 76201-3000  
Phone - (214) 920-2500  
Fax - (214) 920-2565

ISSUED FOR CONSTRUCTION  
ON 3/19/2008

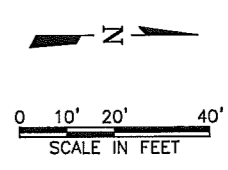
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JAMES H. NICHOLS, P.E., LICENSE NO. 10000, STATE OF TEXAS, FOR THE ALTERATION OF THIS DOCUMENT WITHOUT PROPER PERMISSION OF THE ENGINEER. ANY VIOLATION OF THESE RULES UNDER THE TEXAS ENGINEERING ACT IS A CRIMINAL OFFENSE.

DATE: MAY 23, 2007 4:57:31 P.M. LITS: 0 TWIST: 270.0  
3 REFERENCE FILES: N:\BASE\CV-ALL-PL-SITE, N:\BASE\CV-ALL-PL-TOPO and N:\STANDARD\34BORDER





**CAUTION!!!**  
 EXISTING GAS MAIN, FIBER OPTIC LINES AND OVERHEAD ELECTRIC LINES IN AREA CONTRACTOR TO LOCATE PRIOR TO CONSTRUCTION AND COORDINATE ANY REQUIRED RELOCATION



- NOTES:**
1. CONTRACTOR TO FIELD VERIFY ALL CONNECTIONS TO EXISTING WATER LINES.
  2. CONTRACTOR SHALL PROVIDE A WATER SERVICE AND METER BOX FOR ALL LOTS ON THROCKMORTON ROSS ST, AND LAMAR FOR THE PROJECT LIMITS. CONTRACTOR SHALL FIELD VERIFY EXISTING SERVICE LOCATIONS FOR CORNER LOTS, THOSE WHICH GET SERVICE FROM BOURN OR BOYDSTON ARE NOT INCLUDED AS PART OF THIS PROJECT.
  3. ALL WATER LINE CONNECTIONS SHALL BE RESTRAINED.
  4. MINIMUM DEPTH ON WATERLINES SHALL BE 48 INCHES.
  5. CONTRACTOR SHALL MEET ALL TCEQ REQUIREMENTS WHILE CONSTRUCTING UTILITY LINES

**BENCHMARKS:**  
 BM#1 CHISELED BOX CUT ON THE NORTHEAST CURB RETURN OF CIRCLE DRIVEWAY OF 302 BOYDSTUN ST., AT THE NORTHEAST CORNER OF BOYDSTUN ST. AND SAM HOUSTON. ELEVATION=571.25

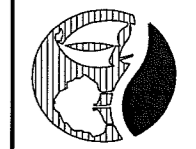
This Record Drawing is a combination of the sealed engineering contract drawings for this field order and information furnished by the contractor. The information shown on the Record Drawings is believed to be accurate based on construction and information furnished by others. The original sealed drawings are on file at the offices of FRESSE AND NICHOLS, INC. 1701 N. Market Street, Suite 300, LB 51 FORT WORTH, TEXAS 76109-1680 (817) 730-7200 FAX (817) 730-7208 RECORD DRAWING PREPARED ON: 12/20/2008

ISSUED FOR CONSTRUCTION  
 ON: 3/19/2008

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**Fresse and Nichols**  
 ENGINEERS  
 1701 N. Market Street, Suite 300, LB 51  
 FORT WORTH, TEXAS 76109-1680  
 Phone - (214) 920-2500  
 Fax - (214) 920-2565

CITY OF ROCKWALL, TEXAS  
**SAM HOUSTON STREET IMPROVEMENTS**  
 PLAN AND PROFILE  
**WATERLINE "WTR-C"**  
 MISCELLANEOUS UTILITIES



NO.	ISSUE	DATE	BY	DATE	FOR JOB NO.
1	ISSUED FOR CONSTRUCTION	03/19/08	KRJ	03/19/08	CV-WAT02.dwg
2	REVISION	07/19/08	KRJ	07/19/08	CV-WAT02.dwg
3	REVISION	12/30/08	KRJ	12/30/08	CV-WAT02.dwg
4	REVISION	MAR 2008	CCB	MAR 2008	CV-WAT02.dwg
5	REVISION		MIP		CV-WAT02.dwg

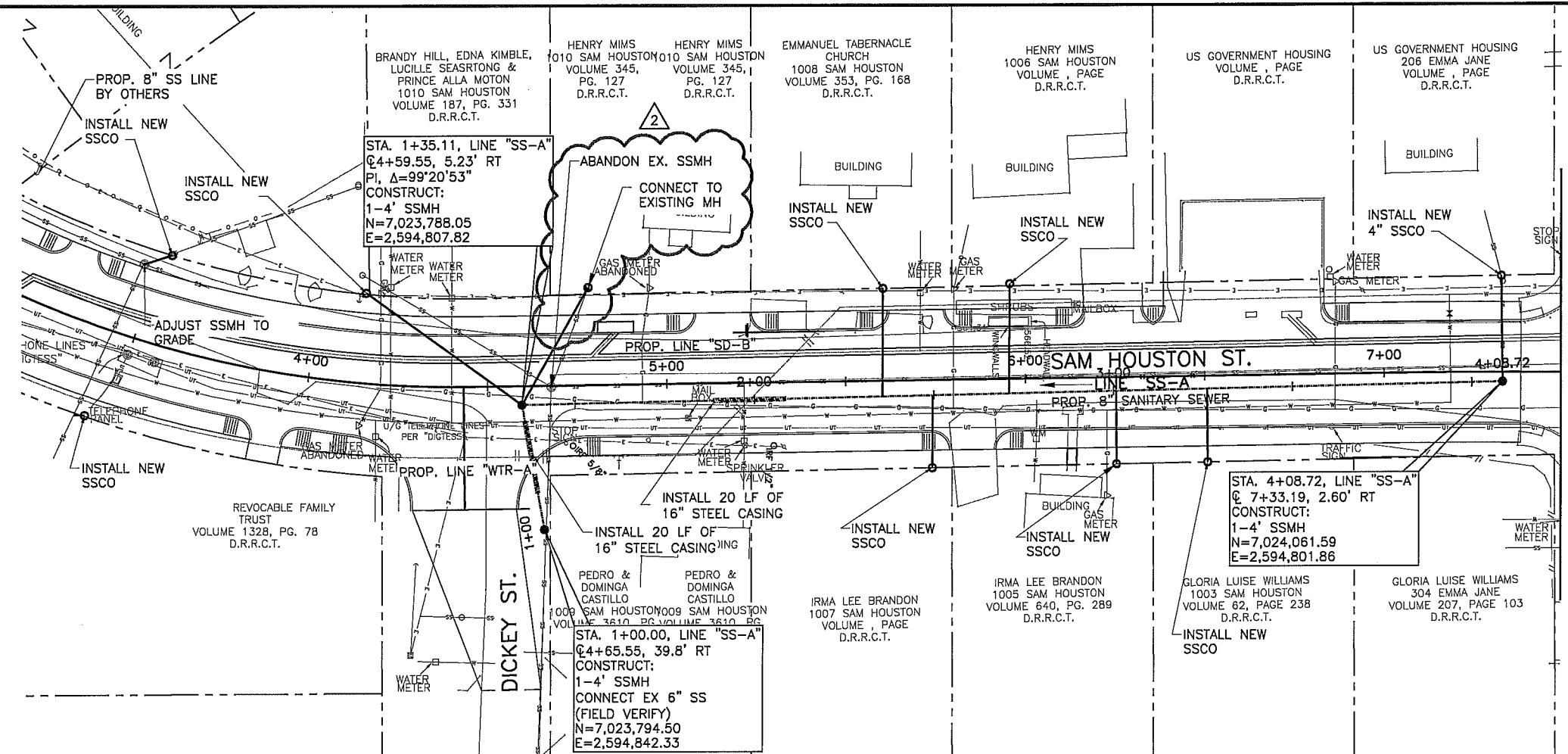
RECORD  
 ISSUED FOR CONSTRUCTION  
 VERIFY SCALE  
 Bar is one inch on original drawing, if not one inch on this sheet, adjust scale.

SHEET  
**UT-2**

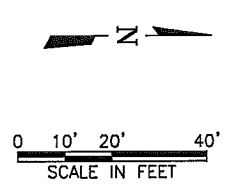
SEQ.  
 17 OF 31

MAY 14, 2007 10:19:16 A.M. LRS: 1.00 PLS: 0 TWIST: 270.0  
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MAY 14, 2007 10:22:32 A.M. LRS: 1.00 PSLTS: 0 TWIST: 270.0, 270.0  
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NOTE:  
 1. CONTRACTOR SHALL PROVIDE FUTURE SEWER SERVICE CONNECTIONS AND SET A CLEANOUT AT THE ROW LINE FOR ALL VACANT LOTS.



This Record Drawing is a combination of the sealed engineering contract drawings for this project, modified by addenda, change order, field notes and information furnished by the contractor. The information shown on this drawing is believed to be accurate based on our observations performed during construction and information furnished by others. The files of FRESSE AND NICHOLS, INC. 4005 INTERNATIONAL PARK, SUITE 200 FORT WORTH, TEXAS 76103-4685 (817) 725-7200 (817) 725-4685 RECORD DRAWING PREPARED ON: 12/29/2008

**CAUTION!!!**  
 EXISTING GAS MAIN, FIBER OPTIC LINES AND OVERHEAD ELECTRIC LINES IN AREA CONTRACTOR TO LOCATE PRIOR TO CONSTRUCTION AND COORDINATE ANY REQUIRED RELOCATION

SCALE:  
 HORIZ: 1" = 20'  
 VERT 1" = 4'

MATCHLINE STA 7+50  
 SEE SHEET UT-4

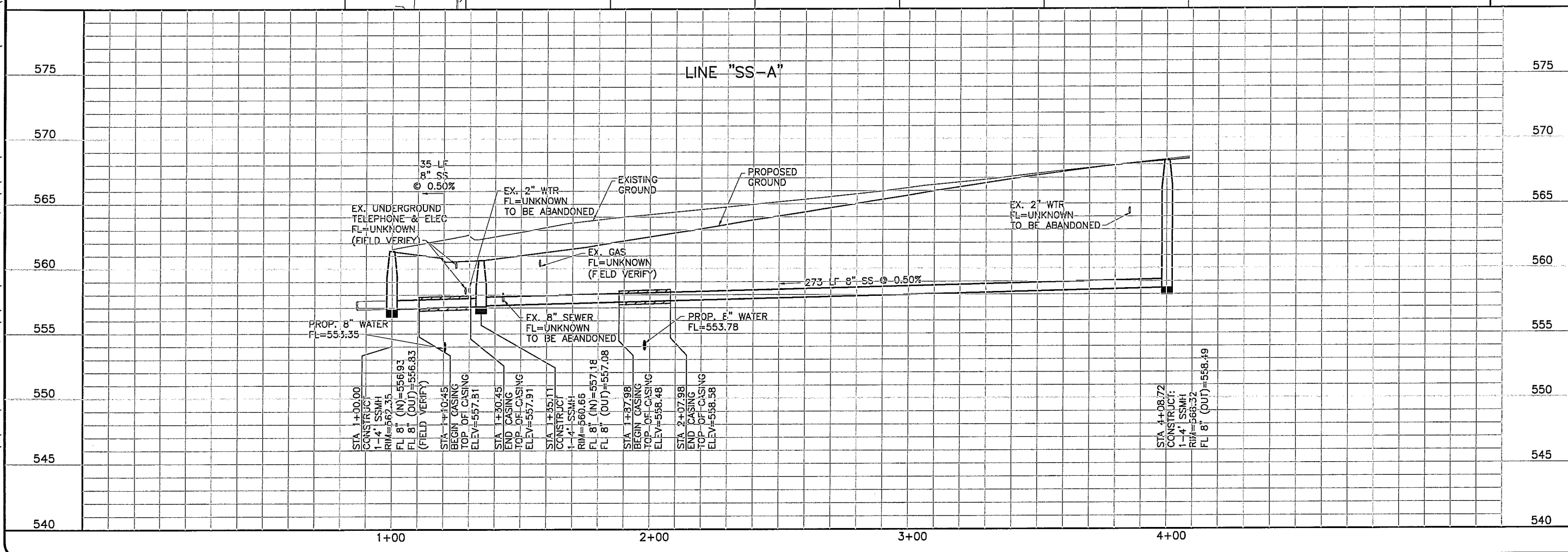
ISSUED FOR CONSTRUCTION ON 3/19/2008

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY STATE OF TEXAS ENGINEERING BOARD AND IS NOT VALID WITHOUT PROPER INFORMATION AS TO THE PROJECT AND DATE OF ISSUE UNDER THE TEXAS ENGINEERING ACT

**Fresse and Nichols**  
 4005 INTERNATIONAL PARK, SUITE 200  
 FORT WORTH, TEXAS 76103-4685  
 Phone - (214) 920-2500  
 Fax - (214) 920-2555

CITY OF ROCKWALL, TEXAS  
 SAM HOUSTON STREET IMPROVEMENTS  
 PLAN AND PROFILE

SANITARY SEWER LINE "SS-A"



NO. ISSUE

DATE

BY

DATE

DESIGNED

DRAWN

REVIEWED

CHECKED

FILE NAME

CV-ROK-PP-SS-UT-1.dwg

RECORD

ISSUED FOR CONSTRUCTION

VERIFY SCALE

Bar is one inch on original drawing, if not one inch on this sheet, adjust scale.

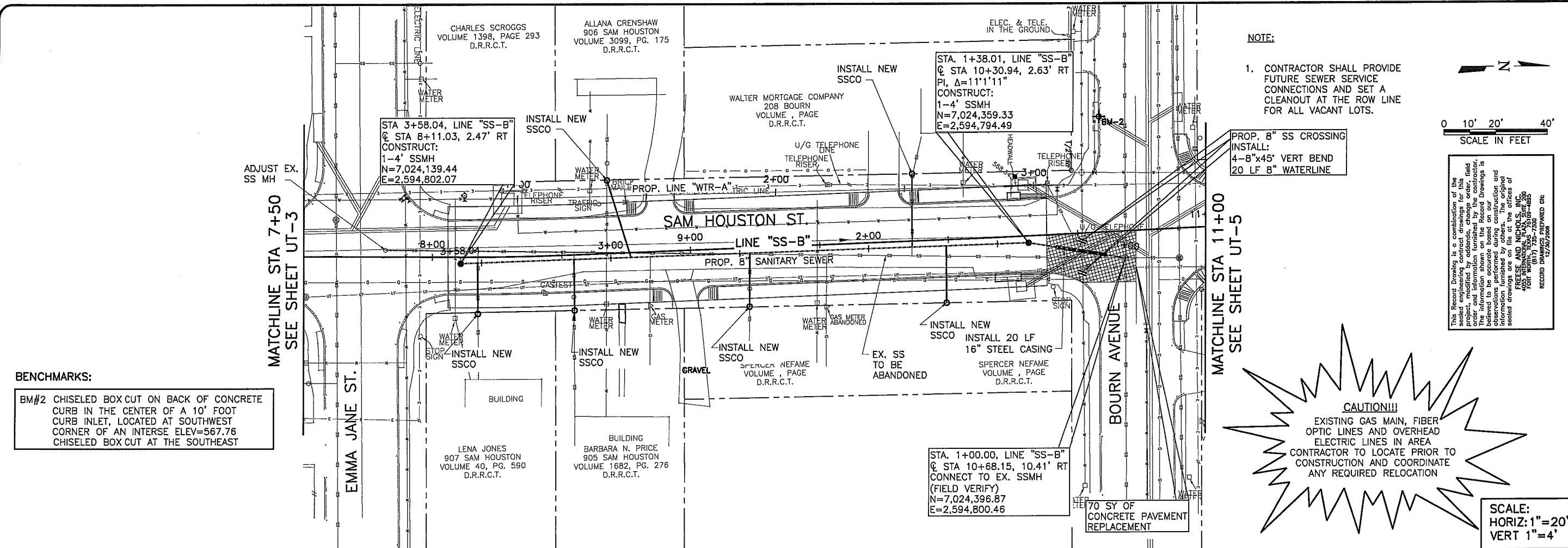
SHEET

UT-3

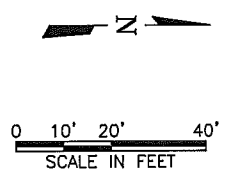
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18 OF 31

MAY 23, 2007 9:59:12 P.M. LITS: 1.00 PLS: 0 TWIST: 270.0, 270.0  
 4 REFERENCE FILES: N:\F\BASE\CV-ALL-PL-SITE, N:\F\BASE\CV-ALL-PL-TOPO, N:\F\BASE\CV-ALL-PR-SS-A and N:\STANDARD\34BORDER



NOTE:  
 1. CONTRACTOR SHALL PROVIDE FUTURE SEWER SERVICE CONNECTIONS AND SET A CLEANOUT AT THE ROW LINE FOR ALL VACANT LOTS.

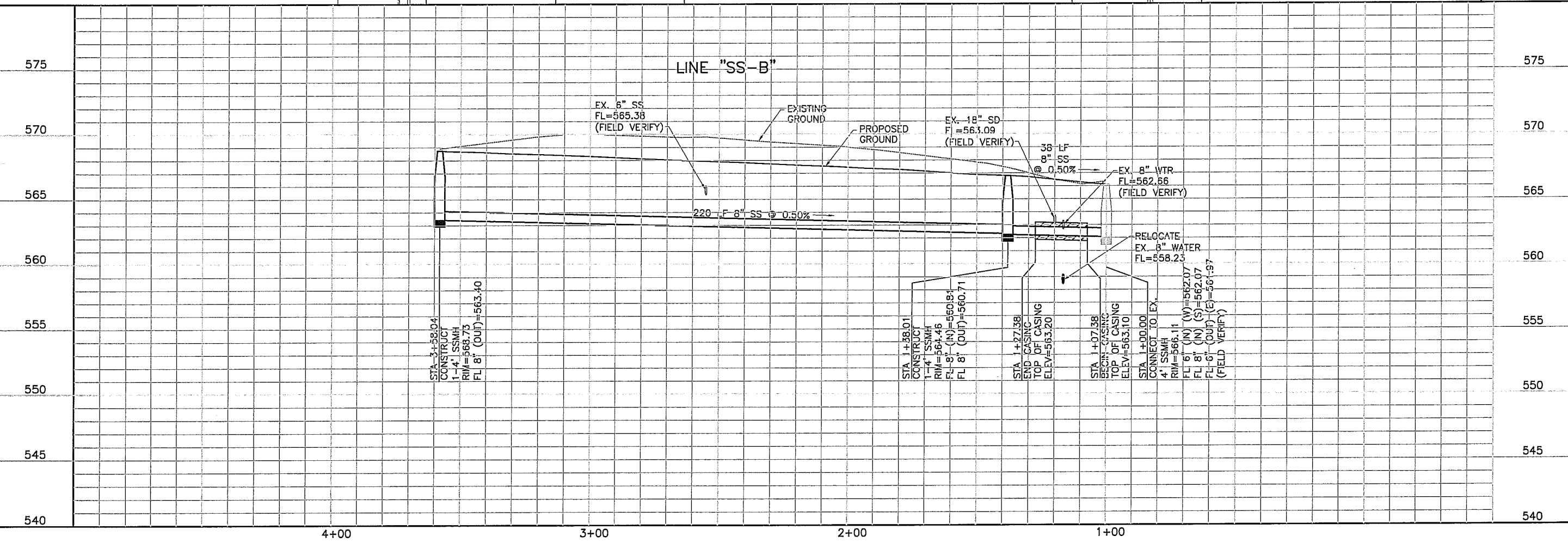


This Record Drawing is a continuation of the sealed engineering contract drawings for this project, modified by addenda, change order, field order and information furnished by the contractor. The contractor is responsible for the accuracy of the drawings. It is believed to be accurate based on our observations performed during construction and information furnished by others. The original sealed drawings are on file at the offices of:  
 FRESE AND NICHOLS  
 4005 INTERMEDICAL PLAZA, SUITE 200  
 FORT WORTH, TEXAS 76102-2500  
 (817) 735-2200  
 RECORD DRAWINGS PREPARED ON: 12/20/2008

**BENCHMARKS:**  
 BM#2 CHISELED BOX CUT ON BACK OF CONCRETE CURB IN THE CENTER OF A 10' FOOT CURB INLET, LOCATED AT SOUTHWEST CORNER OF AN INTERSE ELEV=567.76 CHISELED BOX CUT AT THE SOUTHEAST

**CAUTION!!!**  
 EXISTING GAS MAIN, FIBER OPTIC LINES AND OVERHEAD ELECTRIC LINES IN AREA  
 CONTRACTOR TO LOCATE PRIOR TO CONSTRUCTION AND COORDINATE ANY REQUIRED RELOCATION

SCALE:  
 HORIZ: 1" = 20'  
 VERT 1" = 4'



ISSUED FOR CONSTRUCTION ON: 3/19/2008

THE SEAL APPEARING ON THIS DOCUMENT WAS VALIDATED BY THE STATE OF TEXAS ON: 3/19/2008

**Freese and Nichols**  
 4005 INTERMEDICAL PLAZA, SUITE 200  
 FORT WORTH, TEXAS 76102-2500  
 Phone - (214) 920-2500  
 Fax - (214) 920-2565

CITY OF ROCKWALL, TEXAS  
**SAM HOUSTON STREET IMPROVEMENTS**  
 PLAN AND PROFILE

**SANITARY SEWER LINE "SS-B"**

NO.	ISSUE	DATE	BY	DATE	FOR JOB NO.
0	ISSUED FOR CONSTRUCTION	12/30/08	KRJ	03/19/08	CV-ROK-PP-SSEW02.dwg
1	VERIFY SCALE				

Bar is one inch on original drawing, if not one inch on this sheet, adjust scale.

SHEET **UT-4**

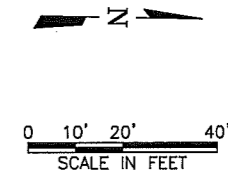
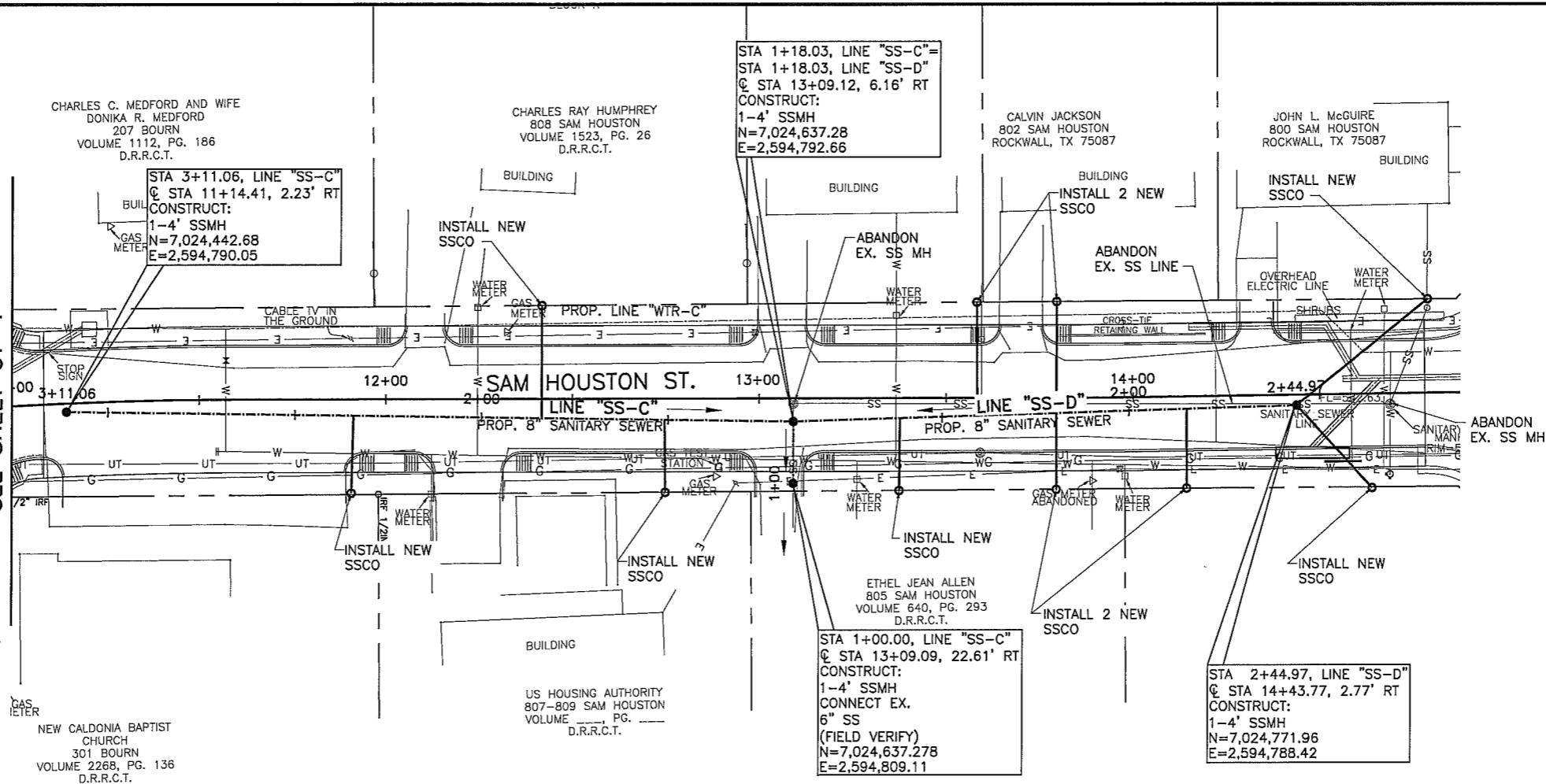
SEQ. 19 OF 31

**BENCHMARK:**  
 BM#2 CHISELED BOX CUT ON BACK OF CONCRETE CURB IN THE CENTER OF A 10' FOOT CURB INLET, LOCATED AT SOUTHWEST CORNER OF BOURN AND SAM HOUSTON ST. ELEV=567.76

**NOTE:**  
 1. CONTRACTOR SHALL PROVIDE FUTURE SEWER SERVICE CONNECTIONS AND SET A CLEANOUT AT THE ROW LINE FOR ALL VACANT LOTS.

**CAUTION!!!**  
 EXISTING GAS MAIN, FIBER OPTIC LINES AND OVERHEAD ELECTRIC LINES IN AREA. CONTRACTOR TO LOCATE PRIOR TO CONSTRUCTION AND COORDINATE ANY REQUIRED RELOCATION

MATCHLINE STA 11+00  
 SEE SHEET UT-4



This Record Drawing is a combination of the sealed engineering contract drawings for the field order and information furnished by the contractor. The information shown on the Record Drawing is believed to be accurate based on our inspection and information furnished by others. The original sealed drawings are on file at the office of FRESSE AND NICHOLS, INC. 4901 WORTH, TEXAS 75169-4885 (817) 251-7300 RECORDED 12/29/2008

ISSUED FOR CONSTRUCTION  
 03/19/08

**Fresse and Nichols**  
 1701 N. Meador Street, Suite 500, LB 51  
 Dallas, Texas 75202-2001  
 Phone - (214) 920-2500  
 Fax - (214) 920-2555

SCALE:  
 HORIZ: 1" = 20'  
 VERT 1" = 4'

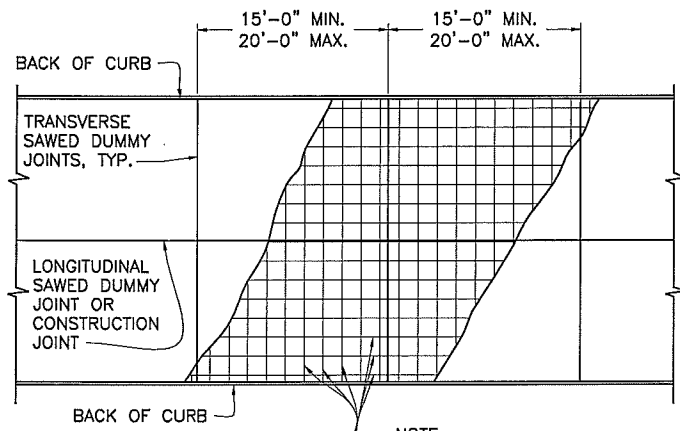
CITY OF ROCKWALL, TEXAS  
 SAM HOUSTON STREET  
 IMPROVEMENTS  
 PLAN AND PROFILE  
 SANITARY SEWER LINES  
 "SS-C" AND "SS-D"



NO.	ISSUE	DATE	BY	FOR JOB NO.
0	ISSUED FOR CONSTRUCTION	12/30/08	KRU	ROK06451
1	VERIFY SCALE	03/19/08	KRU	ROK06451
2	Bar is one inch on original drawing, if not one inch on this sheet, adjust scale.			

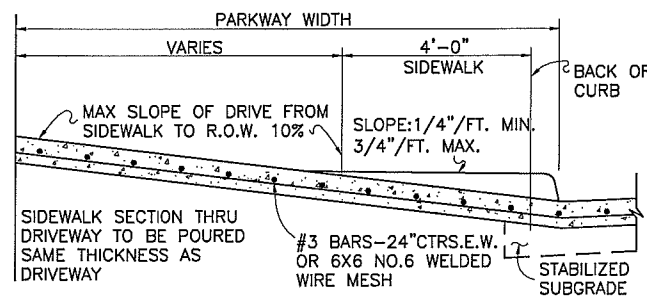
SHEET  
 UT-5  
 SEQ.  
 20 OF 31

MAY 23, 2007 9:46:23 P.M. LRS: 2.00 PLS: 0 TWIST: 270.0, 270.0, 270.0, 270.0  
 5 REFERENCE FILES: N:\BASE\CV-ALL-PL-SITE, N:\BASE\CV-ALL-PL-TOPO, N:\BASE\CV-ALL-PR-SS-A, N:\BASE\CV-ALL-PR-SS-B and N:\STANDARD\34BORDER



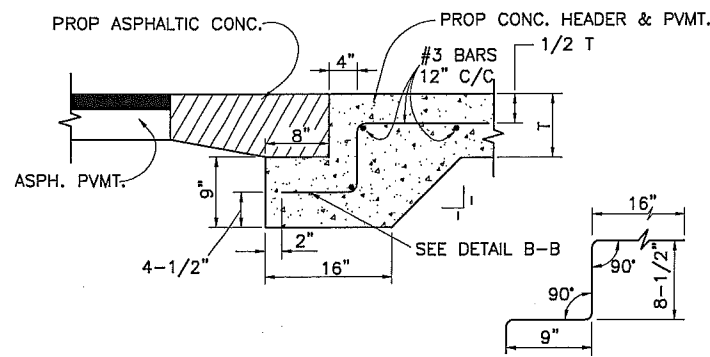
NOTE: THE REINFORCING STEEL SHALL EXTEND THROUGH BOTH LONGITUDINAL DUMMY AND TRANSVERSE CONSTRUCTION JOINTS LAP BAR 40 DIAMETERS AND TIE.

1 PLAN OF STEEL LAYOUT NOT TO SCALE



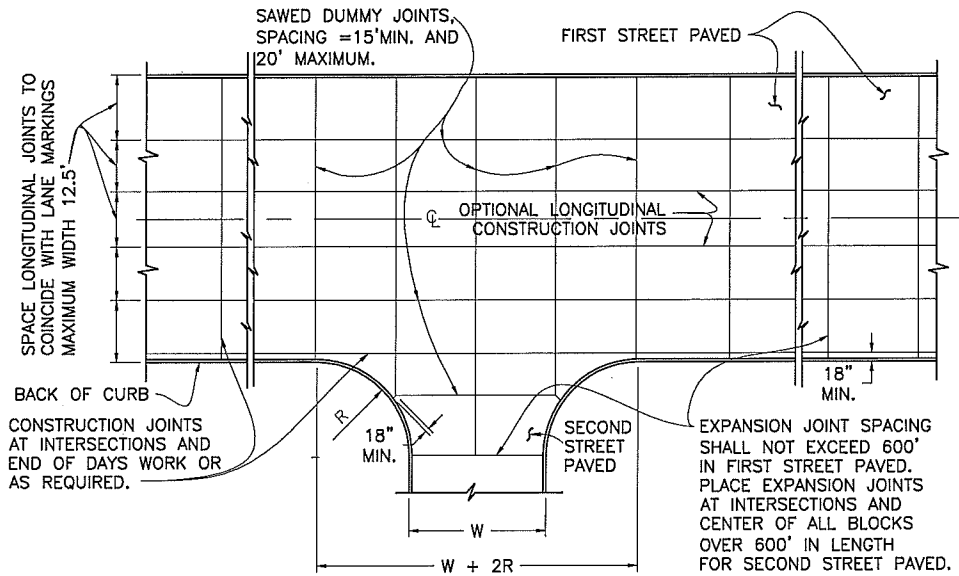
SECTION (A-A)

5 DRIVEWAY DETAILS NOT TO SCALE

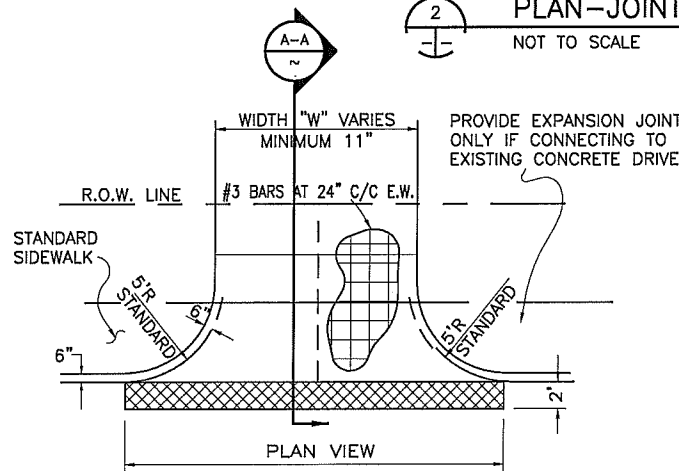


DETAIL B-B

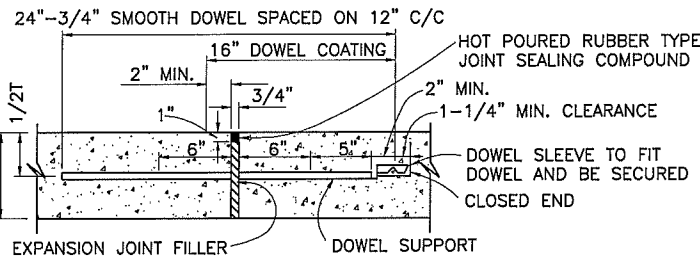
8 STREET HEADER NOT TO SCALE



2 PLAN-JOINT SPACING NOT TO SCALE

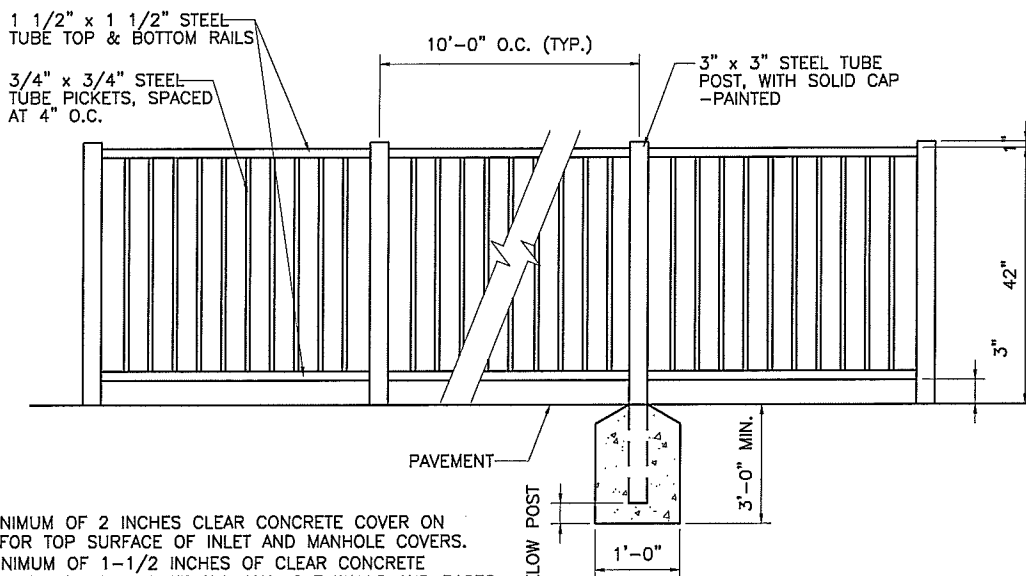


PLAN VIEW



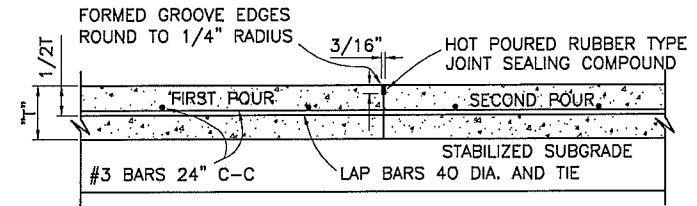
NOTE: FOR EXISTING PAVEMENT - DRILL AND EPOXY DOWEL IN EXISTING PAVEMENT SECTION.

6 TRAVERSE EXPANSION JOINT NOT TO SCALE



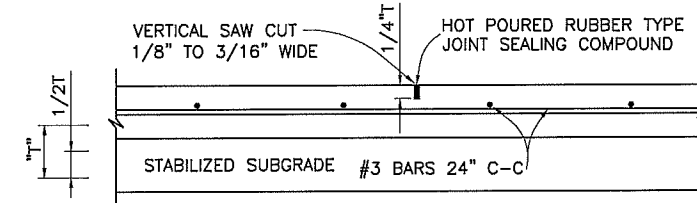
9 PEDESTRIAN HANDRAIL ELEVATION NOT TO SCALE

- GENERAL NOTES
1. PROVIDE A MINIMUM OF 2 INCHES CLEAR CONCRETE COVER ON REINFORCING FOR TOP SURFACE OF INLET AND MANHOLE COVERS.
  2. PROVIDE A MINIMUM OF 1-1/2 INCHES OF CLEAR CONCRETE COVER ON REINFORCING FOR INLET AND MANHOLE WALLS AND BASES.
  3. TRIM STEEL TO CLEAR PIPE AT OUTLET.
  4. ALL SD STRUCTURES SHALL BE CONSTRUCTED OF 4200 P.S.I. CONCRETE. CONCRETE SHALL CONTAIN 6 SACKS OF CEMENT AND 6.5 SACKS FOR HANDWORKED AREAS.

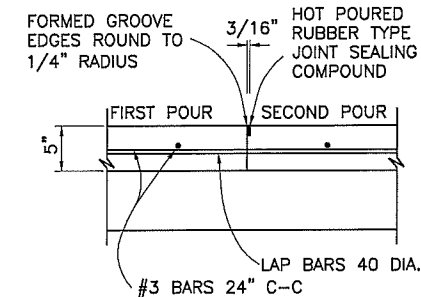


3 TRANSVERSE CONSTRUCTION JOINT NOT TO SCALE

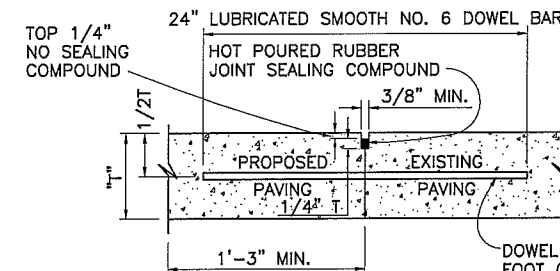
NOTE: DIMENSION "T" EQUALS PAVEMENT THICKNESS SHOWN ON TYPICAL PAVEMENT SECTIONS



4 SAWED DUMMY JOINT NOT TO SCALE



7 LONGITUDINAL CONSTRUCTION JOINT NOT TO SCALE



NOTES: T=PAVEMENT THICKNESS

1. LONGITUDINAL BUTT CONSTRUCTION MAY BE UTILIZED IN PLACE OF LONGITUDINAL HINGED (KEYWAY) JOINT AT CONTRACTORS OPTION.
2. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG.

DRILLING BY HAND IS NOT ACCEPTABLE, PUSHING DOWEL BARS INTO GREEN CONCRETE NOT ACCEPTABLE

10 LONGITUDINAL BUTT JOINT NOT TO SCALE

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CITY OF ROCKWALL, TEXAS  
SAM HOUSTON STREET IMPROVEMENTS



NO. ISSUE	DATE	BY	REVISED	FILE NAME	CREATED	CRJ

NO. ISSUE	DATE	BY	REVISED	FILE NAME	CREATED	CRJ

NO. ISSUE	DATE	BY	REVISED	FILE NAME	CREATED	CRJ

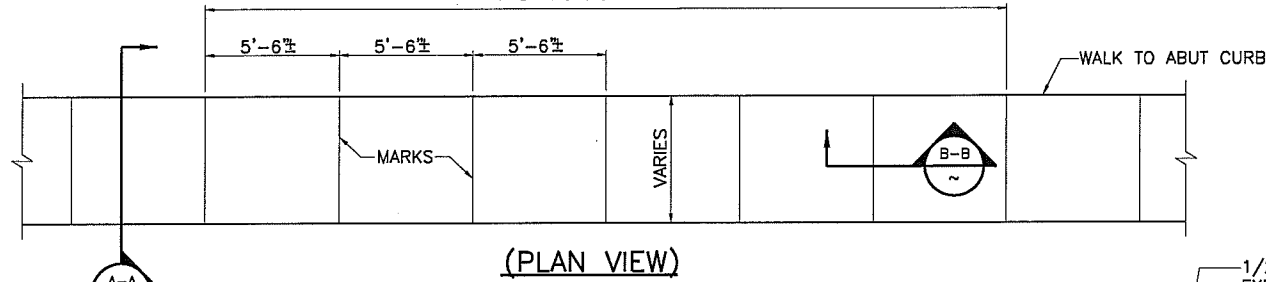
ISSUED FOR CONSTRUCTION ON 3/19/2008

Friese and Nichols  
1701 N. Market Street, Suite 500, LB 51  
Dallas, Texas 75202-2001  
Phone: (214) 736-7300  
Fax: (214) 736-7300

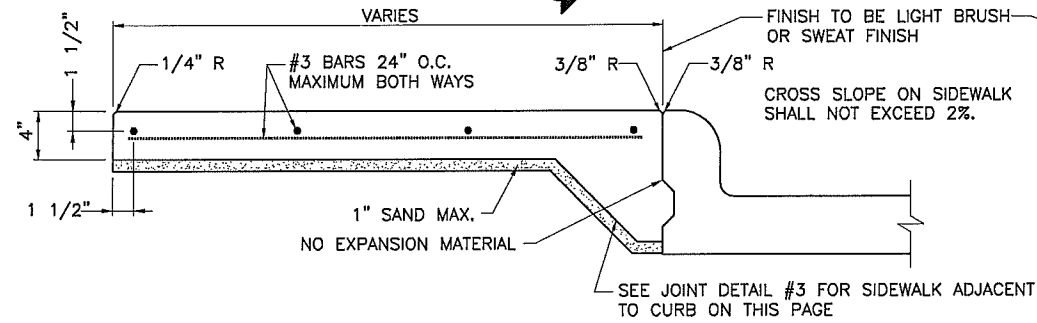
CIVIL  
PAVING DETAILS

2 REFERENCE FILES: ... STANDARD BORDER and 93882  
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 USER: ell  
 LAYOUT: LAYOUT1

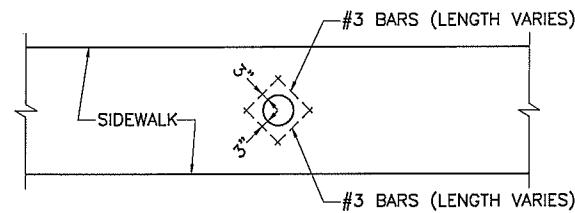
1/2" DOWEL EXPANSION JOINT WITH EXPANSION JOINT FILLER EVERY 117' (MAX.) AND AT ALL RADI POINTS



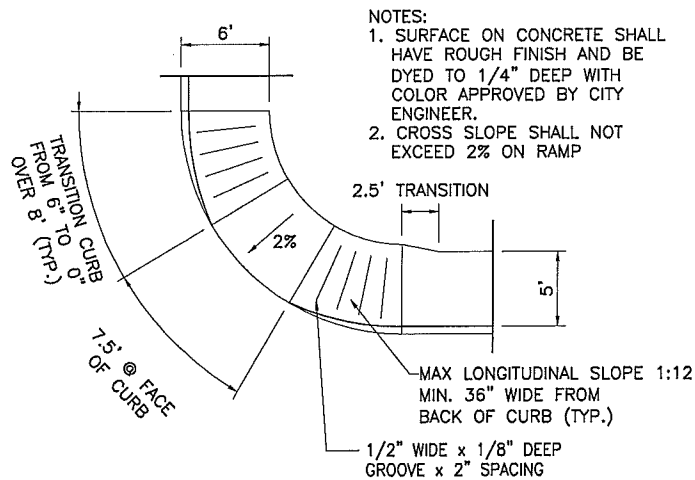
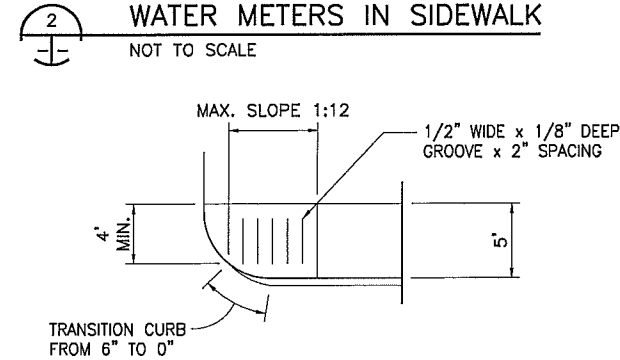
(PLAN VIEW)



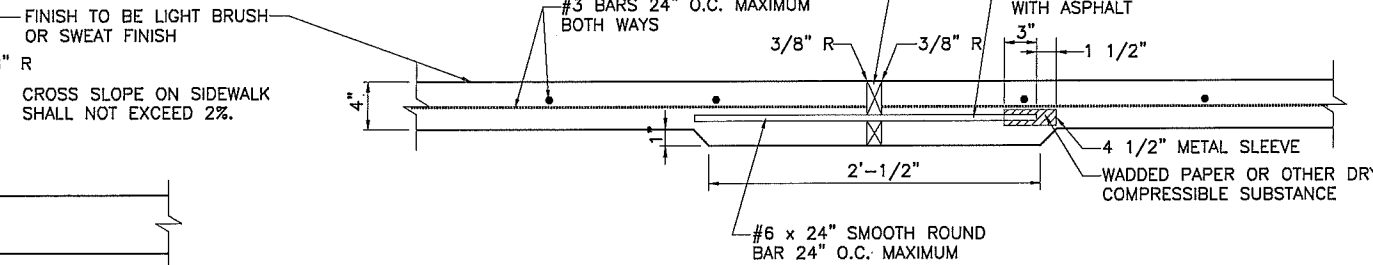
A - A (TYPICAL SECTION)



REINFORCING DETAIL AT WATER METERS IN SIDEWALK



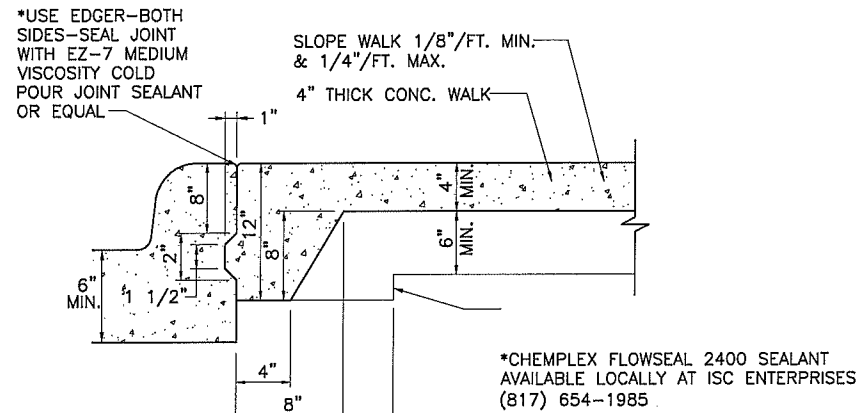
HANDICAP RAMP DETAILS



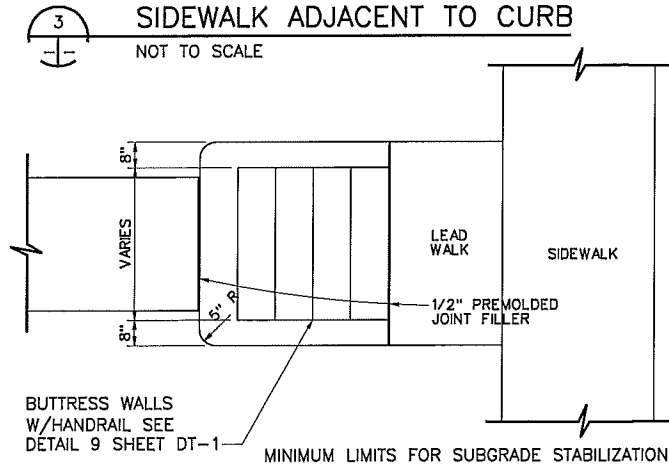
B - B (EXPANSION JOINT DETAIL)



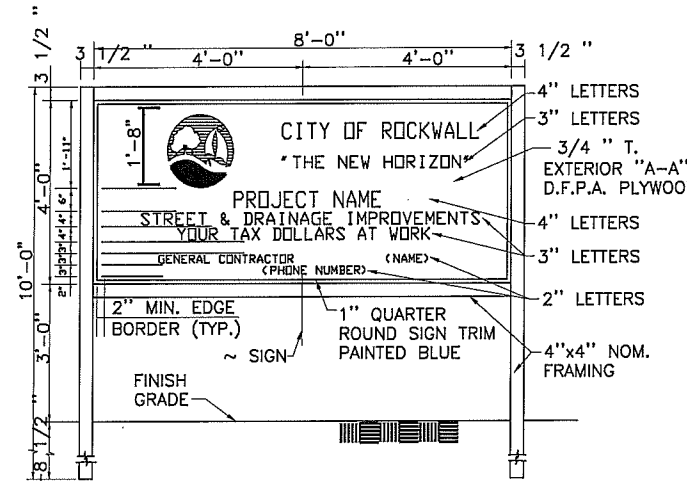
SIDEWALK ADJACENT TO CURB DETAILS



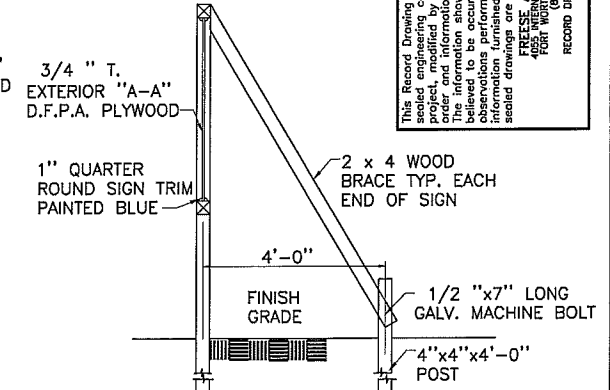
JOINT DETAIL FOR SIDEWALK ADJACENT TO CURB



LEADWALK STEPS



FRONT ELEVATION

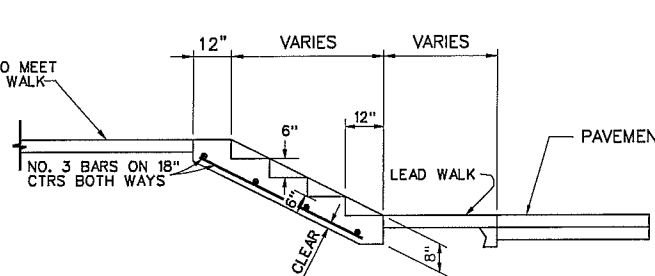


SIDE ELEVATION/SECTION

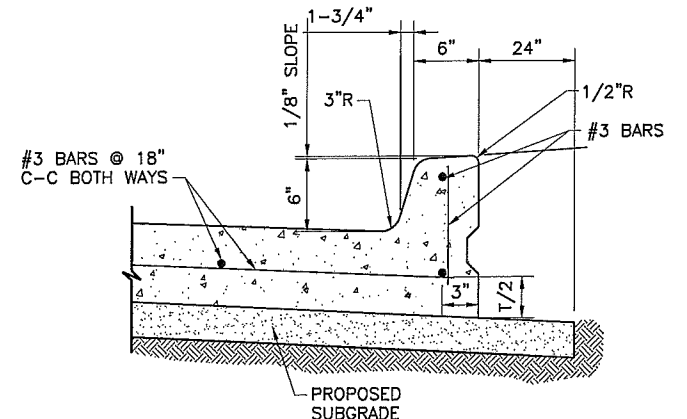


CONSTRUCTION SIGN

NOTE: GRAPHICS SHALL BE EXTERIOR GRADE ENAMEL PAINT OR VINYL LETTERING, BLUE LETTERS ON WHITE BACKGROUND. ALL LETTERS SHALL BE HELVETICA.



SECTION



MONOLITHIC CURB DETAIL

- NOTES:
- ALL HONEYCOMB IN BACK OF CURB TO BE TROWEL - PLASTERED BEFORE POURING SIDEWALK.
  - LUG MAY BE FORMED BY SHAPING SUBGRADE TO APPROXIMATE DIMENSIONS SHOWN
  - FOR SIDEWALKS AGAINST EXISTING CURB, KEYWAY SHALL BE REPLACED WITH 6" LONG #3 BARS DRILLED 4" INTO EXISTING BACK CURB AND EPOXY GROUTED ON 24" CENTERS.
  - PAYMENT FOR KEYWAY AND THICKENED EDGE SUBSIDIARY TO SIDEWALK PAY ITEM.
  - PAYMENT FOR EXCAVATION, BORROW, AND COMPACTION IS SUBSIDIARY TO CONCRETE PAY ITEM.
  - LIME STABILIZATION OR SELECT BORROW MATERIAL FOR SUBGRADE IS REQUIRED WHEN SOIL P.I. IS GREATER THAN 18. LIMITS OF SUBGRADE STABILIZATION ARE MINIMUM REQUIRED.
  - BACKFILL FOR SIDEWALK SUBGRADE SHALL BE LIME STABILIZED SOIL OR SELECT BORROW MATERIAL HAVING A P.I. NOT LESS THAN 10 NOR GREATER THAN 18.
  - SIDEWALK BACKFILL AND SUBGRADE SHALL BE COMPACTED IN LIFTS NOT TO EXCEED 6 INCHES TO 95% OF ASTM D698 DENSITY WITH A MOISTURE WITHIN -2% TO +4% OF OPTIMUM MOISTURE.
  - 1/2" EXPANSION JOINTS SHALL BE PROVIDED AT STREET EXPANSION JOINTS AND AT A MAXIMUM 40 FOOT SPACING IN LINE WITH STREET SAW JOINTS; A TOOL MARKED GROOVE SHALL BE PROVIDED IN LINE WITH INTERMEDIATE STREET SAW JOINTS.

This Record Drawing is a representation of the sealed engineering contract drawings for this project, modified by addenda, change orders, field order, and information furnished by the contractor. The drawings are to be used for construction and are not to be used for any other purpose. The original information furnished during construction and sealed drawings are on file at the offices of the engineer. CIVIL ENGINEERING, P.L.L.C. 1701 N. Market Street, Suite 500, LB 51 Dallas, Texas 75201-2500 Phone: (214) 733-2300 Fax: (214) 733-2308 RECORD DRAWINGS PREPARED ON: 12/30/2008

ISSUED FOR CONSTRUCTION ON 3/19/2008

Freese and Nichols  
1701 N. Market Street, Suite 500, LB 51  
Dallas, Texas 75201-2500  
Phone: (214) 733-2300  
Fax: (214) 733-2308

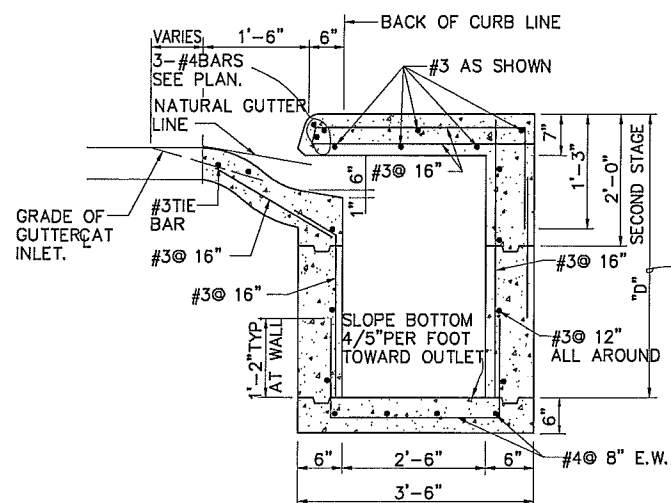
CITY OF ROCKWALL, TEXAS  
SAM HOUSTON STREET IMPROVEMENTS  
CIVIL  
PAVING DETAILS



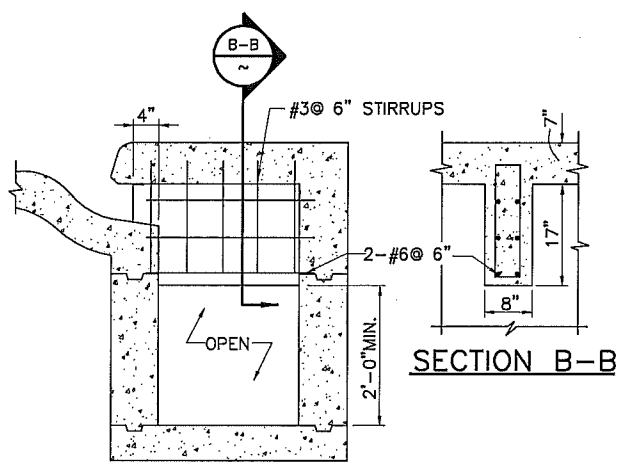
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2	RECORD	12/30/08	KRJ	
3	DESIGNED	MAR 2008	CCB	
4	CHM			
5	REVISION			
6	REVISION			
7	REVISION			

SHEET DT-2  
SEQ. 22 OF 31

PROJECT: I:\DALLAS\CV\IMPROVEMENTS\CV-ROK-DT-DTLS02.DWG LAYOUT: Layout1  
 MAY 24 2007 2:28:31 PM LRS: 1.00 PLOTS: 1  
 REFERENCE FILE: ...STANDARD3.BORDER



SECTION



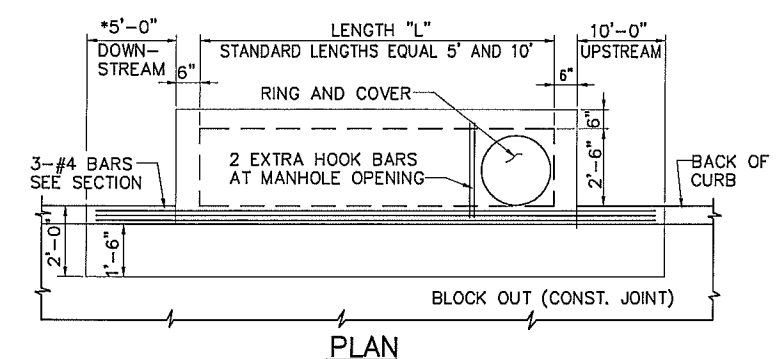
CENTER WALL REINFORCING  
15' AND 20' CURB INLET

This Record Drawing is a combination of the sealed engineering contract drawings for this project, modified by addenda, change order, field notes, and other documents. The information shown on the Record Drawings is believed to be accurate based on our observations performed during construction and the information provided by the contractor. Sealed drawings are on file at the offices of:  
**FREESTONE AND NICHOLS, INC.**  
 4008 WESTHELVILLE ROAD, SUITE 100  
 COLUMBIANA, TEXAS 75845-0800  
 (817) 735-7200  
 RECORD DRAWING PREPARED ON: 12/24/2008

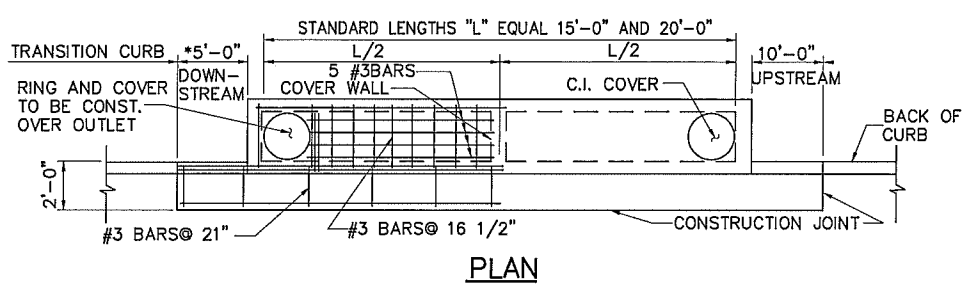
ISSUED FOR CONSTRUCTION  
 ON: 9/15/2008

THE SEAL APPEARING ON THIS DOCUMENT WAS  
 THE PROPERTY OF THE ENGINEER AND IS NOT TO BE  
 REPRODUCED OR TRANSMITTED IN ANY FORM OR  
 BY ANY MEANS, ELECTRONIC OR MECHANICAL,  
 INCLUDING PHOTOCOPYING, RECORDING, OR BY  
 INFORMATION SYSTEMS WITHOUT THE WRITTEN  
 PERMISSION OF THE RESPONSIBLE ENGINEER AND  
 ENGINEER UNDER THE TEXAS ENGINEERING PRACTICE ACT

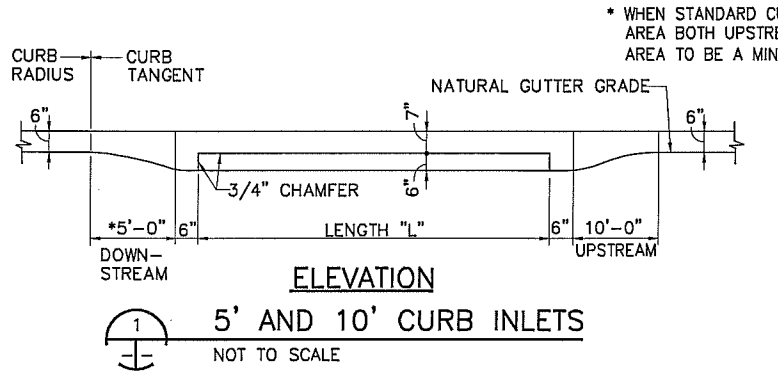
**Freestone and Nichols**  
 1701 N. Market Street, Suite 500, LB 51  
 Dallas, Texas 75202-2001  
 Phone - (214) 920-2500  
 Fax - (214) 920-2555



PLAN



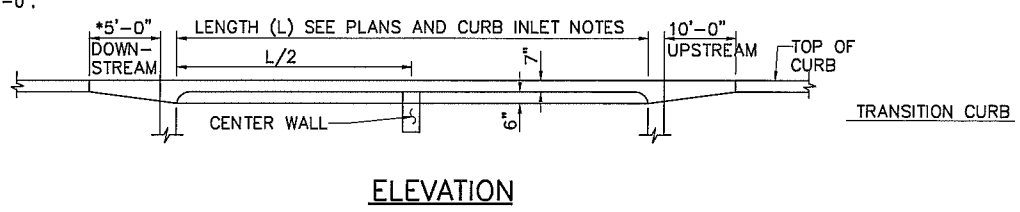
PLAN



ELEVATION

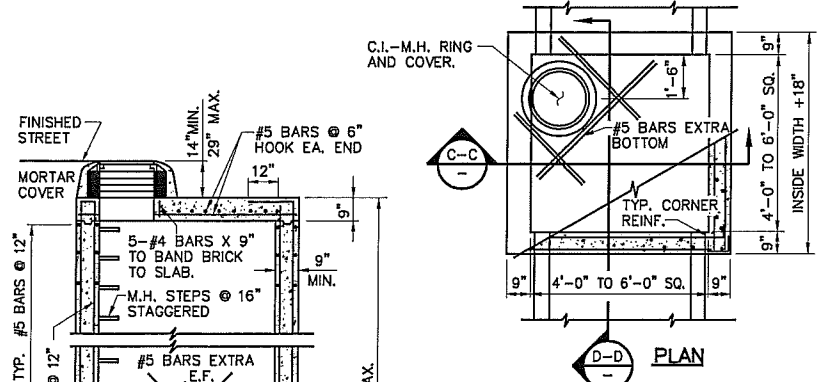
1 5' AND 10' CURB INLETS  
 NOT TO SCALE

\* WHEN STANDARD CURB INLETS ARE IN A SAG OR LOW AREA BOTH UPSTREAM AND DOWN STREAM CURB TRANSITIONS AREA TO BE A MINIMUM OF 10'-0".



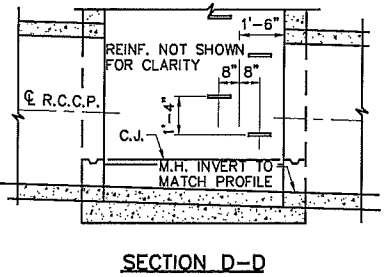
ELEVATION

2 15' AND 20' CURB INLETS  
 NOT TO SCALE



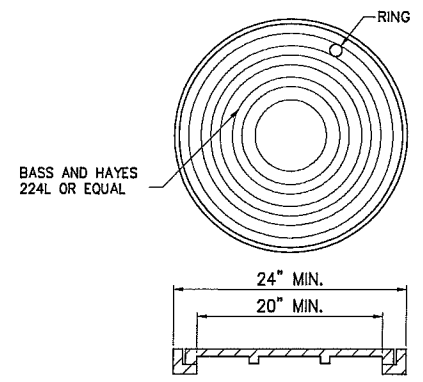
PLAN

SECTION C-C



SECTION D-D

4 SQUARE STORM DRAIN MANHOLE  
 NOT TO SCALE



3 CAST IRON FRAME & COVER  
 NOT TO SCALE

**CURB INLET NOTES**

1. PROVIDE CENTER WALL AT MID POINT (L/2) FOR 15'-0" AND 20'-0" INLETS.
2. PROVIDE TWO FRAMES AND COVERS FOR 15'-0" AND 20'-0" INLETS.

CITY OF ROCKWALL, TEXAS  
**SAM HOUSTON STREET IMPROVEMENTS**  
 CIVIL  
**STORM DRAIN DETAILS**



NO.	ISSUE	DATE	BY	CHKD	APP'D	REVISION
1	ISSUED FOR CONSTRUCTION	03/19/08	KRU	CCB	CHM	
2	RECORD	12/30/08	KRU	CCB	CHM	
3	ISSUED FOR CONSTRUCTION	03/19/08	KRU	CCB	CHM	
4	RECORD	MAR 2008	KRU	CCB	CHM	

Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.

FILE NAME: CV-ROK-DT-DTSL03.dwg  
 FILE NUMBER: 0

SHEET: DT-3  
 SEQ. 23 OF 31

ROK06451\_IDALS03.dwg  
 SEP 24, 2007 2:13:28 P.M. LRS: 1 PSLTS: 0  
 2 REFERENCE FILES: \\STANDARD\34BORDER and 93882

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LEVELS DISPLAYED: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16  
 ACC: 7 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32  
 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48  
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TABLE OF VARIABLE DIMENSIONS AND QUANTITIES FOR ONE HEADWALL (4)

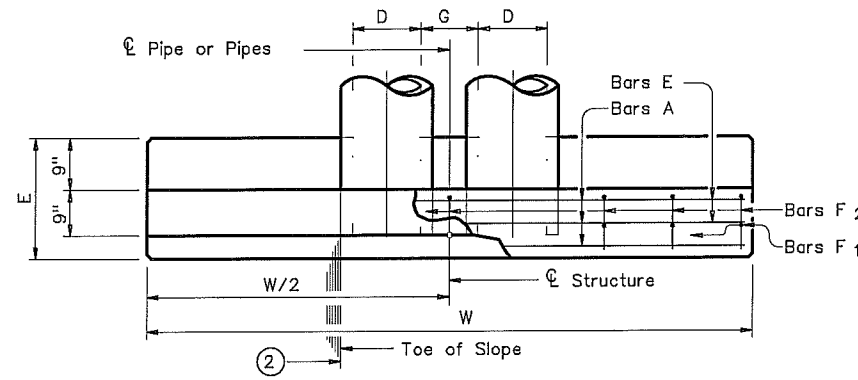
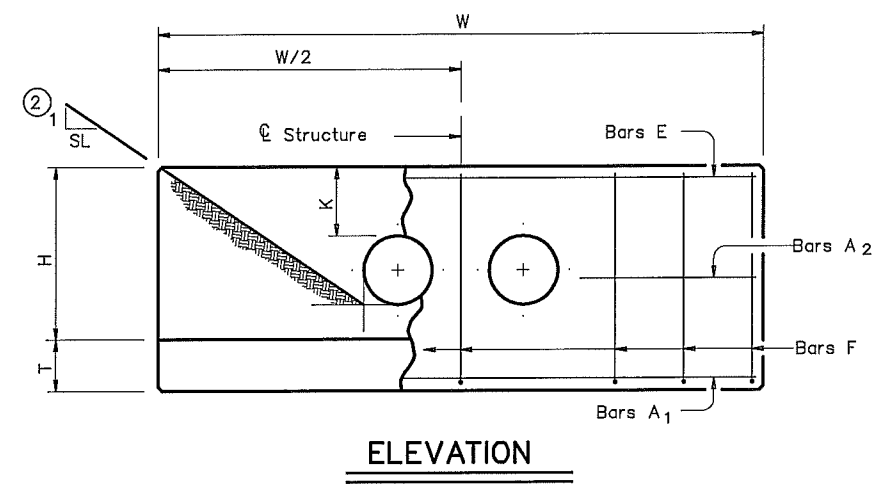
SLOPE	DIA OF PIPE (D)	Values for one Pipe		Values to be added for each add'l Pipe	
		W	Reinf (Lbs)	W	Reinf (Lbs)
2:1	12"	9'-0"	122	1'-9"	15
	15"	10'-3"	136	2'-2"	16
	18"	11'-6"	163	2'-8"	19
	21"	12'-9"	200	3'-1"	31
	24"	14'-0"	217	3'-7"	34
	27"	15'-3"	254	3'-11"	37
	30"	16'-6"	272	4'-4"	40
	33"	17'-9"	314	4'-8"	43
	36"	19'-0"	371	5'-1"	46
	42"	21'-6"	442	5'-10"	52
	48"	25'-0"	569	6'-7"	59
	3:1	12"	13'-0"	175	1'-9"
15"		14'-9"	193	2'-2"	17
18"		16'-6"	228	2'-8"	19
21"		18'-3"	299	3'-1"	31
24"		20'-0"	323	3'-7"	33
27"		21'-9"	371	3'-11"	37
30"		23'-6"	415	4'-4"	40
33"		25'-3"	469	4'-8"	43
36"		27'-0"	556	5'-1"	46
42"		30'-6"	675	5'-10"	52
48"		35'-6"	837	6'-7"	59
4:1		12"	17'-0"	229	2'-0"
	15"	19'-3"	266	2'-4"	17
	18"	21'-6"	308	2'-8"	19
	21"	23'-9"	382	3'-1"	31
	24"	26'-0"	430	3'-7"	34
	27"	28'-3"	486	3'-11"	37
	30"	30'-6"	539	4'-4"	40
	33"	32'-9"	603	4'-8"	42
	36"	35'-0"	738	5'-1"	47
	42"	39'-6"	881	5'-10"	52
	48"	46'-0"	1102	6'-7"	61
	6:1	12"	25'-0"	336	3'-0"
15"		28'-3"	384	3'-6"	17
18"		31'-6"	452	4'-2"	19
21"		34'-9"	581	5'-1"	31
24"		38'-0"	644	5'-8"	34
27"		41'-3"	737	6'-9"	37
30"		44'-6"	807	7'-7"	39
33"		47'-9"	912	8'-9"	44
36"		51'-0"	1108	11'-0"	48
42"		57'-6"	1318	13'-7"	54
48"		67'-0"	1674	17'-9"	59
54"		73'-6"	2064	21'-3"	83
60"	80'-0"	2343	24'-9"	89	
66"	86'-6"	2635	28'-9"	96	
72"	93'-0"	3123	33'-1"	101	

TABLE OF CONSTANT DIMENSIONS

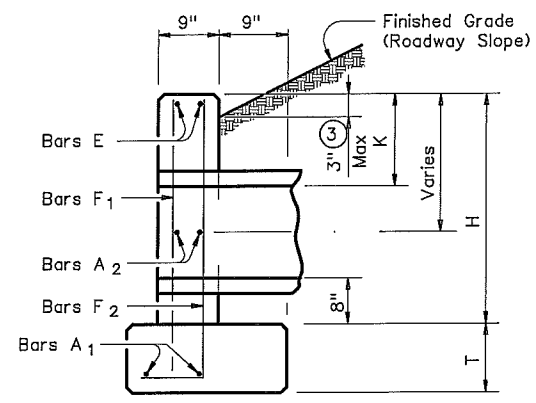
DIA OF PIPE (D)	G	K	H	T	E
12"	9"	1'-0"	2'-8"	9"	1'-9"
15"	11"	1'-0"	2'-11"	9"	1'-9"
18"	1'-2"	1'-0"	3'-2"	9"	1'-9"
21"	1'-4"	1'-0"	3'-5"	9"	2'-0"
24"	1'-7"	1'-0"	3'-8"	9"	2'-0"
27"	1'-8"	1'-0"	3'-11"	9"	2'-3"
30"	1'-10"	1'-0"	4'-2"	9"	2'-3"
33"	1'-11"	1'-0"	4'-5"	9"	2'-6"
36"	2'-1"	1'-0"	4'-8"	1'-0"	2'-6"
42"	2'-4"	1'-0"	5'-2"	1'-0"	2'-9"
48"	2'-7"	1'-3"	5'-11"	1'-0"	3'-0"
54"	3'-0"	1'-3"	6'-5"	1'-0"	3'-3"
60"	3'-3"	1'-3"	6'-11"	1'-0"	3'-6"
66"	3'-3"	1'-3"	7'-5"	1'-0"	3'-9"
72"	3'-4"	1'-3"	7'-11"	1'-0"	4'-0"

TABLE OF REINFORCING STEEL (4)

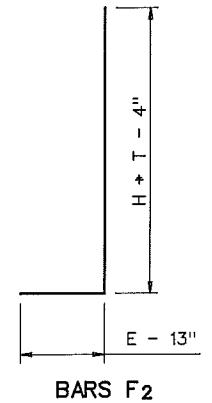
Bar	Size	Spa	No.
A1	• 5	~	2
A2	• 5	1'-6"	~
E	• 5	~	2
F	• 5	1'-0"	~



PLAN OF NON-SKEWED PIPES



SECTION



**GENERAL NOTES:**  
 Designed according to current AASHTO Standard and Interim Specifications.  
 Reinforcing steel shall be placed with the center of the outside layer of bars 2" from the surface of the concrete.  
 All reinforcing steel shall be Grade 60.  
 All concrete shall be Class "C" and shall have a minimum compressive strength of 3600 psi.  
 No bridge rails of any type may be mounted directly to these culvert headwalls.

- Quantities shown are for concrete pipe and will increase slightly for metal pipe installations.
- Indicated slope is perpendicular to centerline Pipe or Pipes.
- For vehicle safety, curbs shall project no more than 3" above finished grade. Curb heights shall be reduced, if necessary, to meet these requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.
- Quantities shown are for one structure end only (one headwall).

**Texas Department of Transportation**  
 Bridge Division

**CONCRETE HEADWALLS WITH PARALLEL WINGS FOR NON-SKEWED PIPE CULVERTS**

**CH-PW-0**

FILE: chpw0ste.dgn	DW: TxDOT	CK: TxDOT	DW: TxDOT	CK: GAF
©TxDOT May 2005	DISTRICT	FEDERAL AID PROJECT		SHEET
REVISIONS	COUNTY	CONTROL	SECT	JOB HIGHWAY
				24



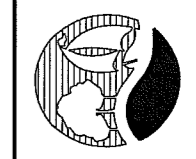


This Record Drawing is a combination of the sealed engineering contract drawings for this project, modified by addenda, change order, field order and information furnished by the contractor, and information furnished by the contractor. The contractor is responsible for the accuracy of the information furnished to be accurate based on our observations performed during construction and information furnished by others. The original sealed drawings are the property of the City of Rockwall, Texas. The title block of these drawings was prepared by F. J. FEESE AND NICHOLS, INC. 4002 WILLOWDALE, SUITE 200 FORT WORTH, TEXAS 76107-4885 (817) 725-7200 RECORD DRAWINGS PREPARED ON: 12/29/2008

ISSUED FOR CONSTRUCTION  
ON 3/19/2008

**Freese and Nichols**  
1701 N. Market Street, Suite 500, LB 51  
Dallas, Texas 75202-2001  
Phone (214) 520-2500  
Fax (214) 520-2555

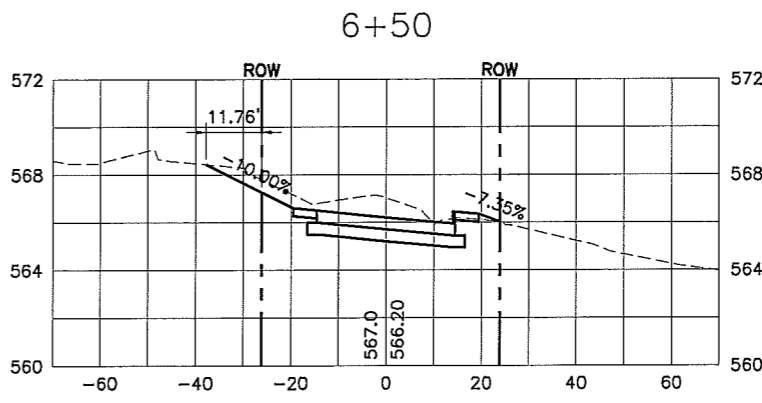
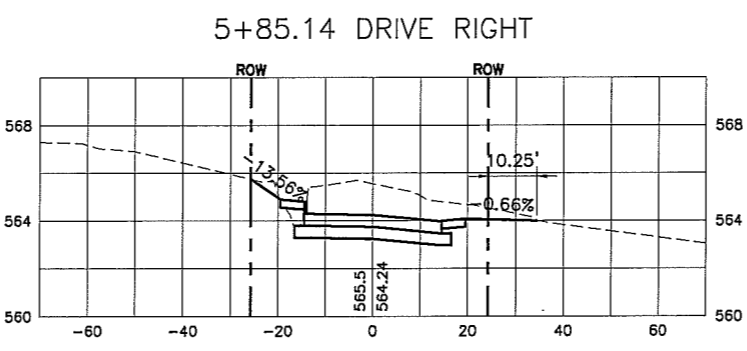
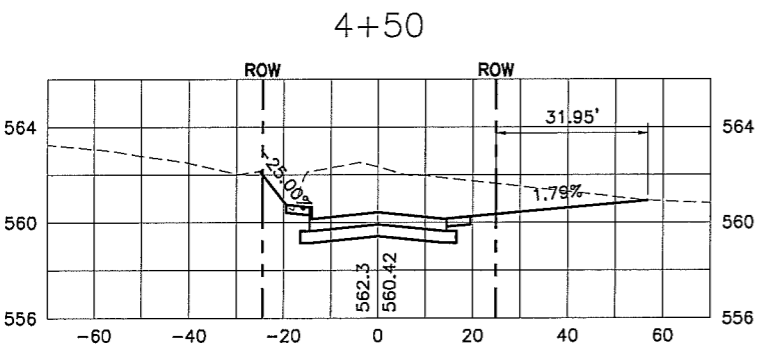
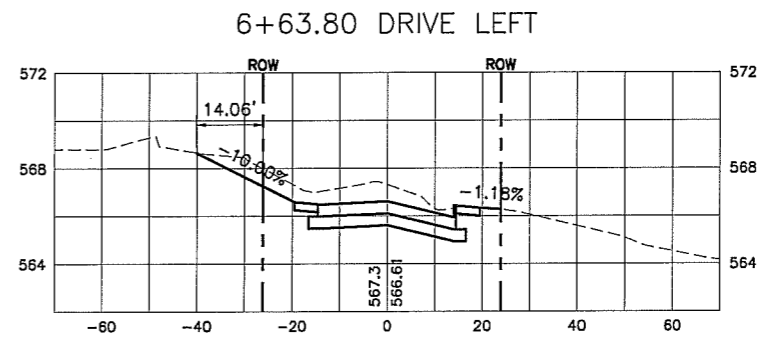
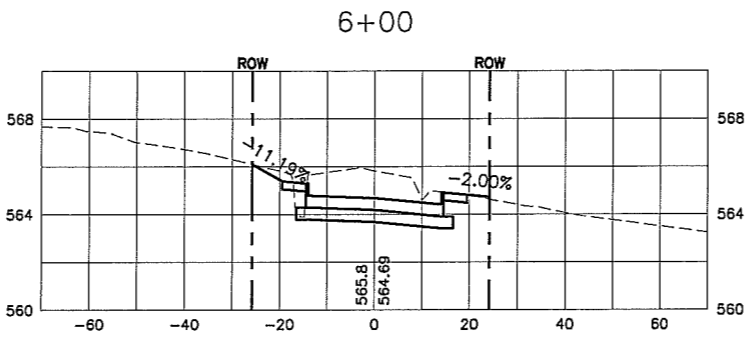
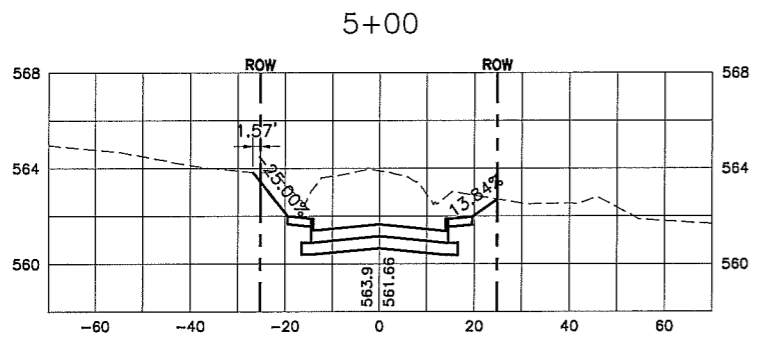
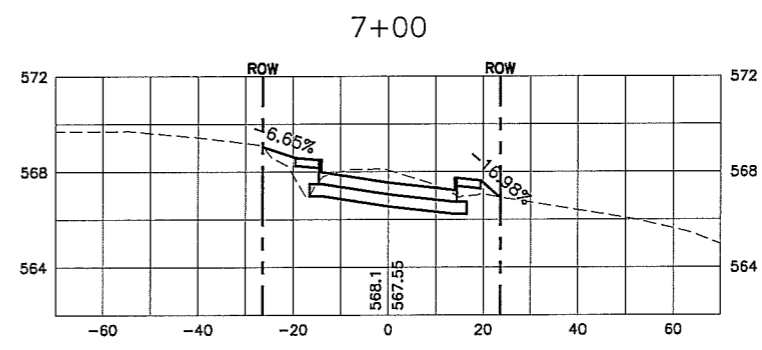
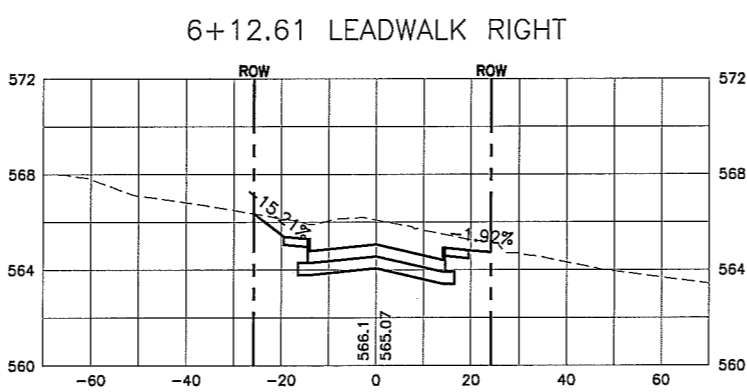
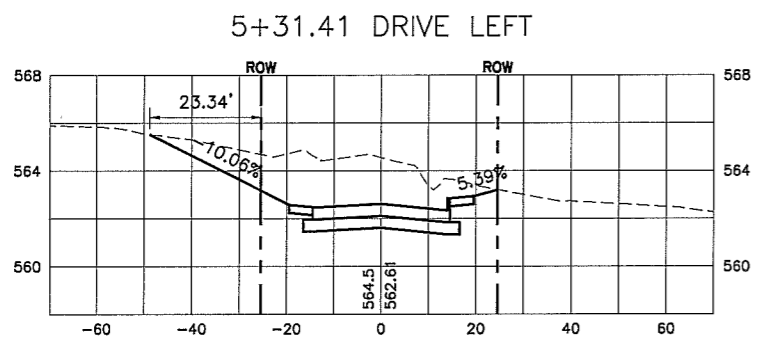
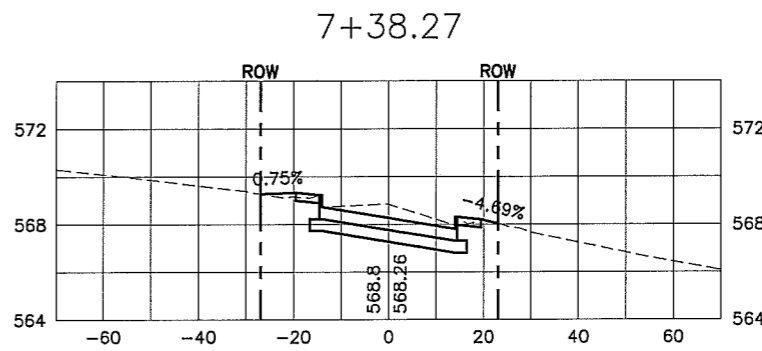
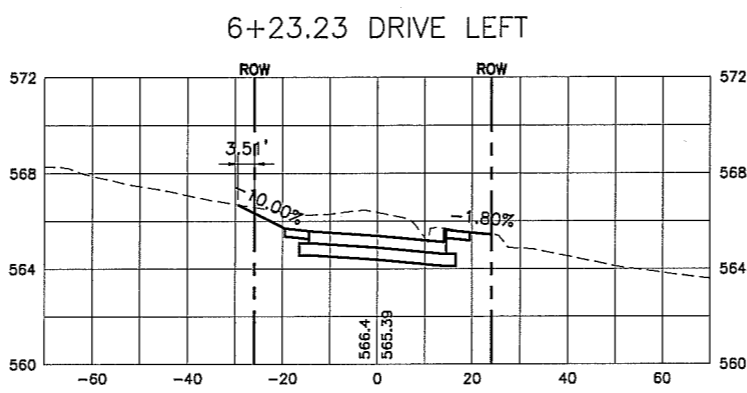
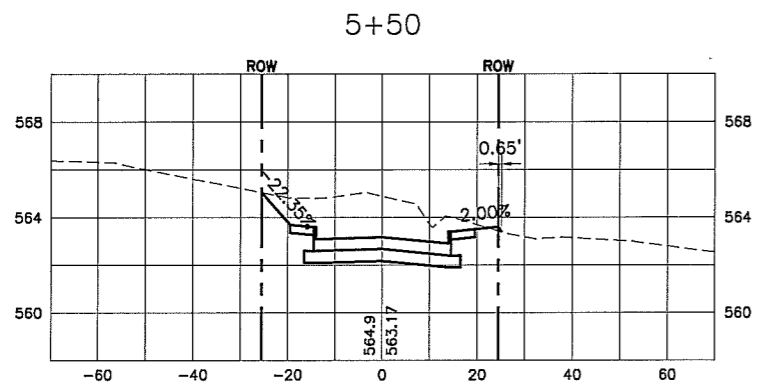
CITY OF ROCKWALL, TEXAS  
SAM HOUSTON STREET  
IMPROVEMENTS  
CIVIL  
CROSS SECTIONS  
STA 4+50 TO 7+38.27



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					DESIGNED CCB
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					REVISION
					DATE 12/30/08
					BY KRU

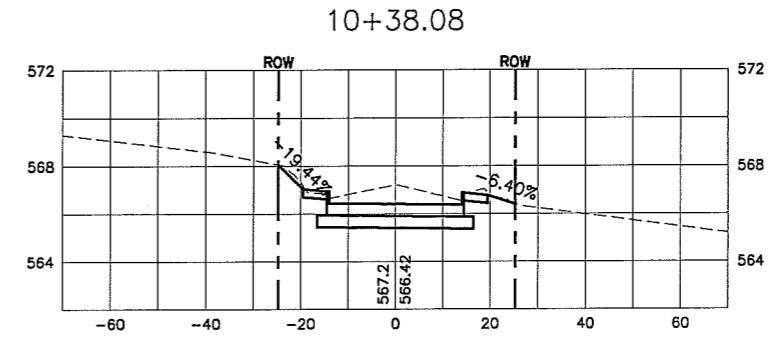
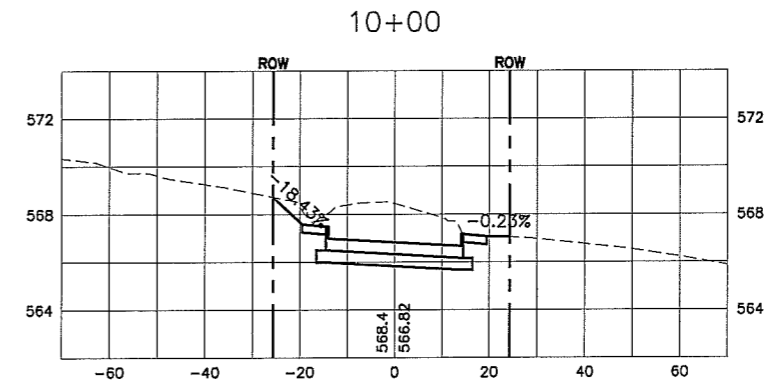
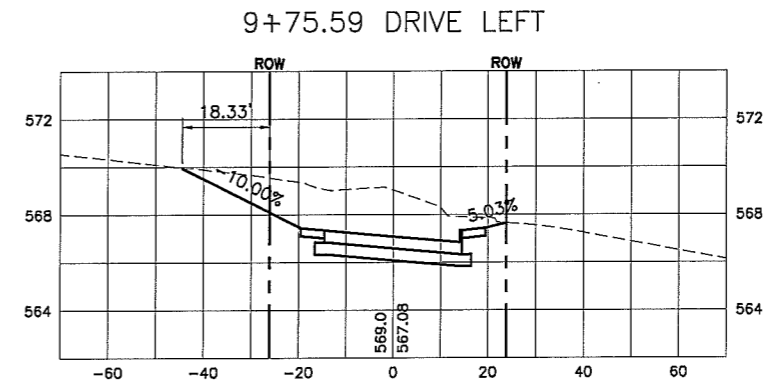
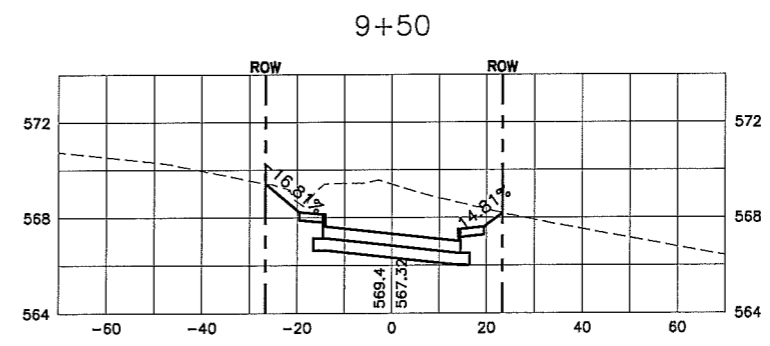
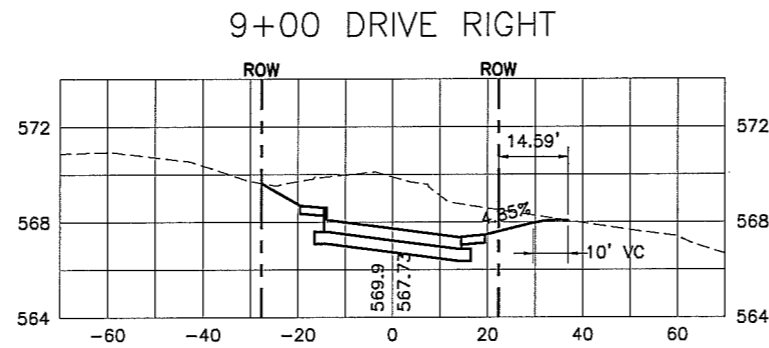
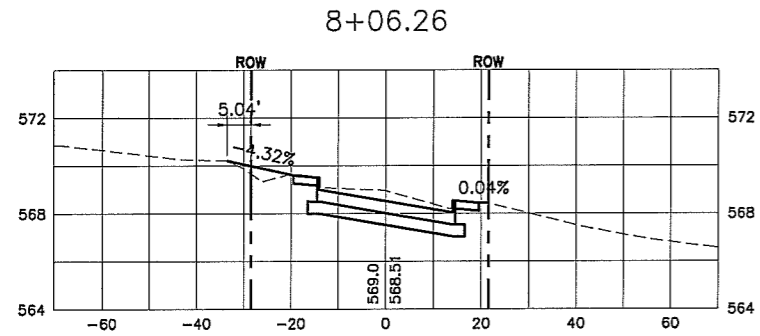
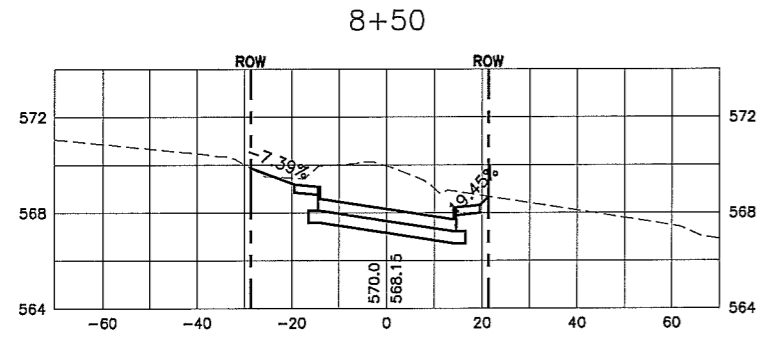
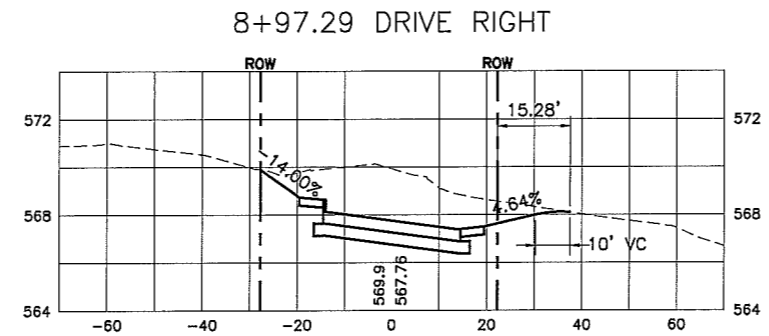
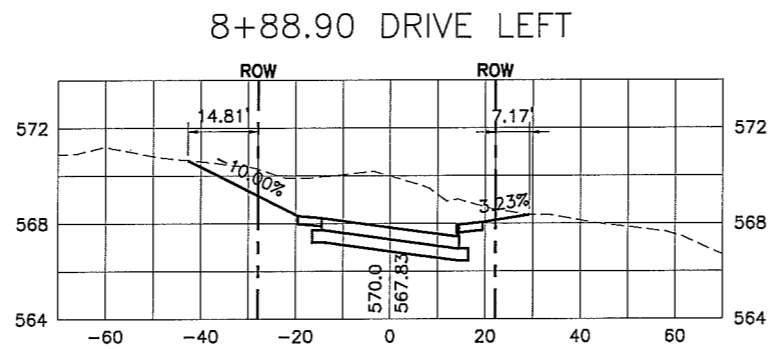
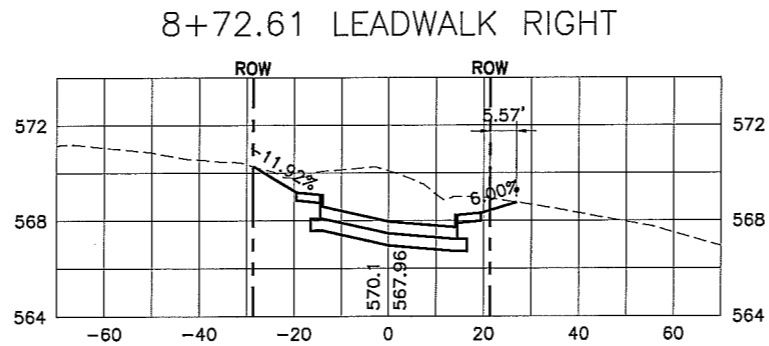
SCALE:  
HORIZ: 1" = 20'  
VERT 1" = 4'

SHEET XS-2  
SEQ. 26 OF 31



EMMA JANE ST.

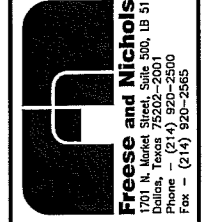
7+72.18



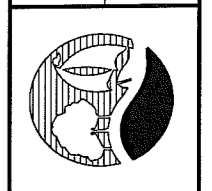
This Record Drawing is a combination of the sealed engineering contract drawings for this project and the field notes, survey data, and other information furnished by the contractor. The information shown on the Record Drawings is believed to be accurate based on our inspection and information furnished by others. The original sealed drawings are on file at the offices of FREESE AND NICHOLS, INC., 1001 NORTH TEXAS STREET, FORT WORTH, TEXAS 76102-4835 (817) 735-7300 (817) 735-7300 FAX (817) 735-7300

ISSUED FOR CONSTRUCTION ON 3/19/2008

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JOHN B. JOHNSON, PE, LICENSE NO. 10000, STATE OF TEXAS, AS A SEALING AUTHORITY OF A SEALED DOCUMENT WITHOUT PROPER INFORMATION. ANY REUSE OF THIS SEALING AUTHORITY IS A VIOLATION OF THE TEXAS ENGINEERING PROFESSIONAL ACT.



CITY OF ROCKWALL, TEXAS  
SAM HOUSTON STREET IMPROVEMENTS  
CIVIL  
CROSS SECTIONS  
STA 7+72.18 TO 10+38.08

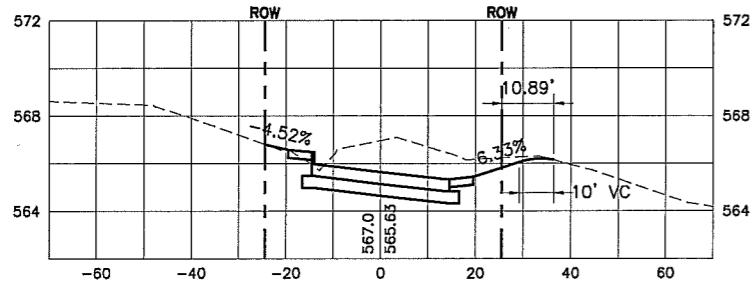


NO.	ISSUE	BY	DATE	FAN JOB NO.	ROK06451
				DATE	MAR 2008
				DESIGNED	CCB
				DRAWN	CHM
		KRJ	12/30/08	CHECKED	KRJ
		KRJ	03/19/08	FILE NAME	CV-ROK-XS-ROAD.dwg

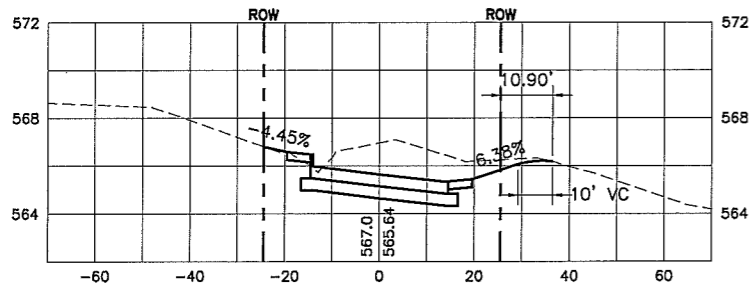
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HORIZ: 1"=20'  
VERT 1"=4'

SHEET XS-3  
SEQ. 27 OF 31

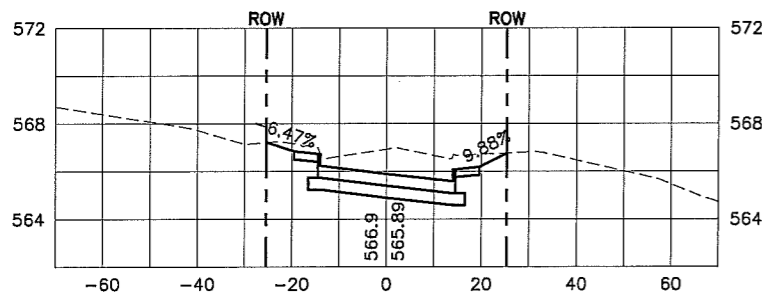
11+51.24 DRIVE RIGHT



11+50 DRIVE RIGHT



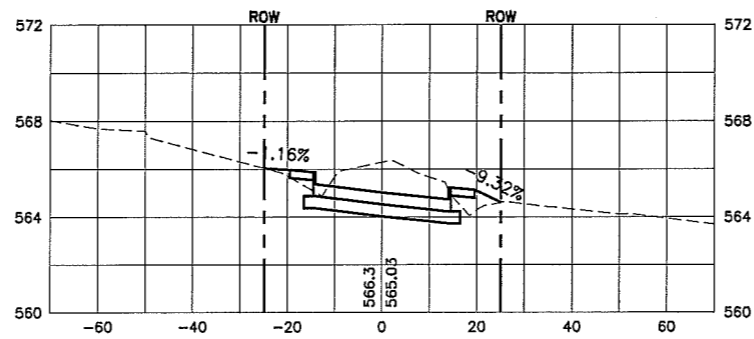
11+08.39



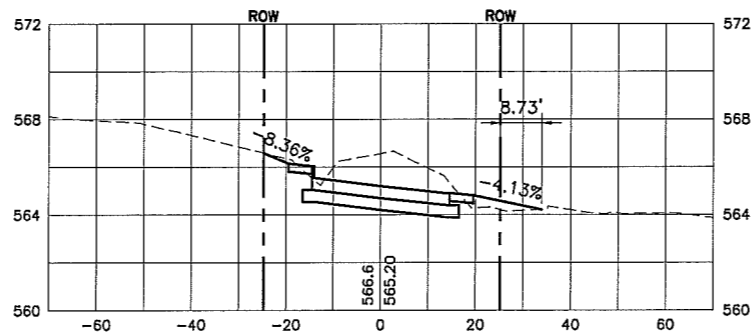
10+72.81

BOURN AVE.

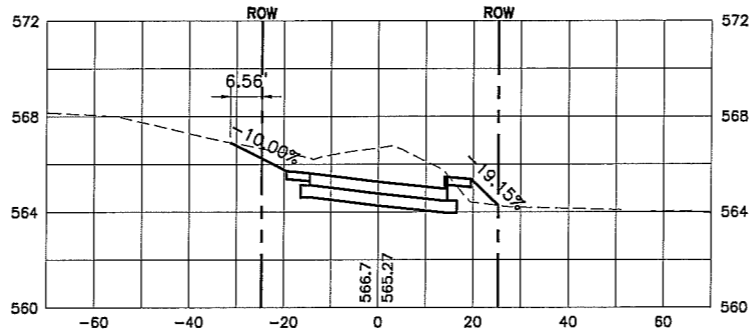
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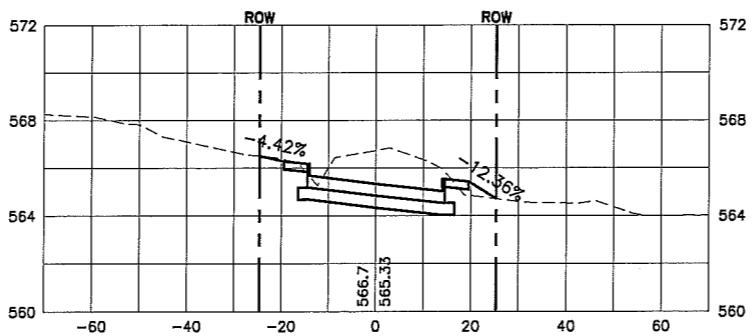
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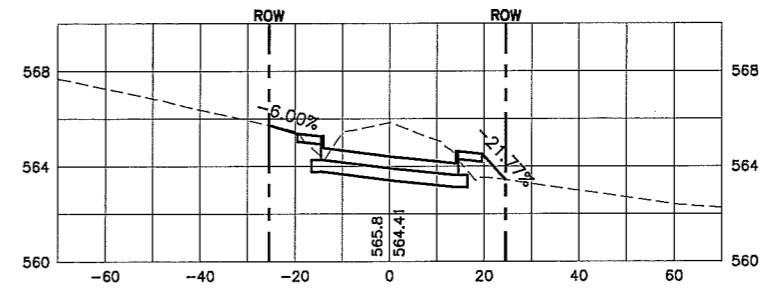
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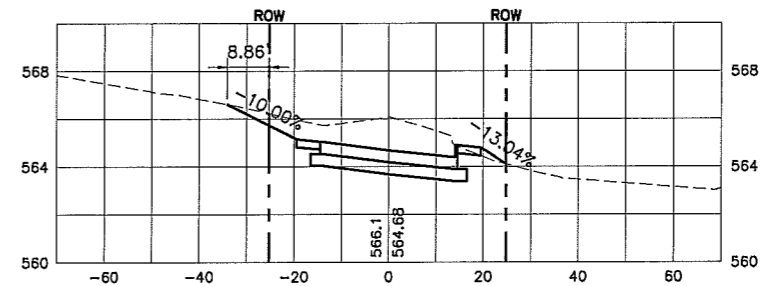
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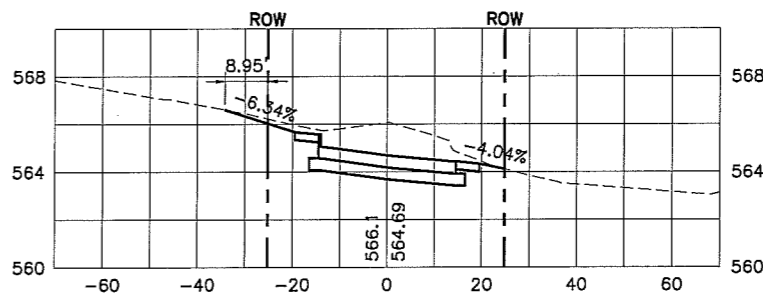
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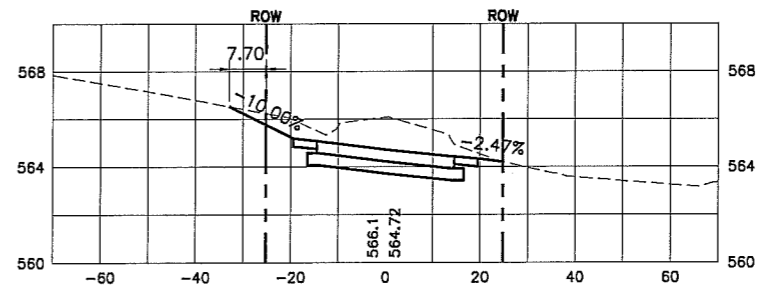
13+06.10 DRIVE LEFT



13+05.31 DRIVE RIGHT



13+00 DRIVE LEFT AND RIGHT

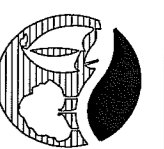


This Record Drawing is a combination of the sealed engineering contract drawings for this field project and the sealed drawings for the construction order and information furnished by the contractor. The information shown on the Record Drawings is believed to be accurate based on our observations and information furnished by others. The original sealed drawings are on file at the offices of FRESSE AND NICHOLS, INC. 4001 WORTH, TEXAS 75009-6800 (817) 750-7200 RECORD DRAWING PREPARED ON 12/20/2008

ISSUED FOR CONSTRUCTION ON 3/19/2008

**Fresse and Nichols**  
CIVIL  
10000 N. LOOP W. SUITE 1000, L.S. 75040  
DALLAS, TEXAS 75242-2001  
Phone - (214) 920-2500  
Fax - (214) 920-2555

CITY OF ROCKWALL, TEXAS  
SAM HOUSTON STREET IMPROVEMENTS  
CROSS SECTIONS STA 10+72.81 TO 13+50

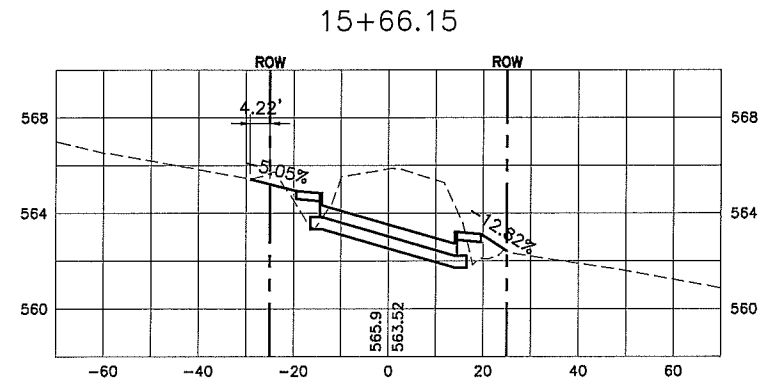
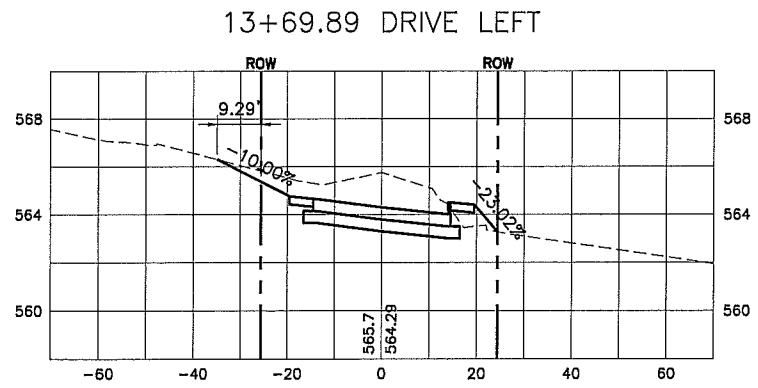
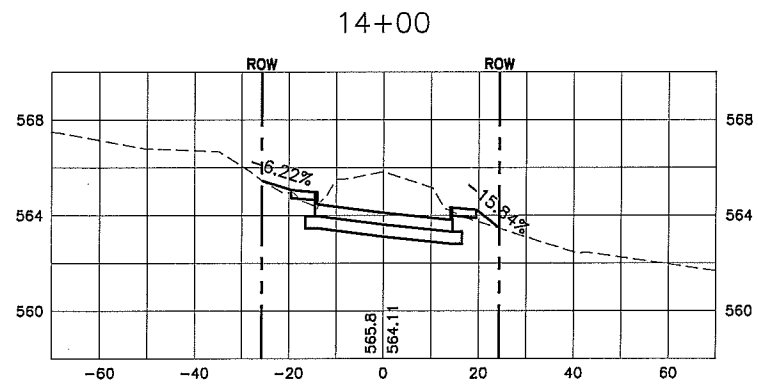
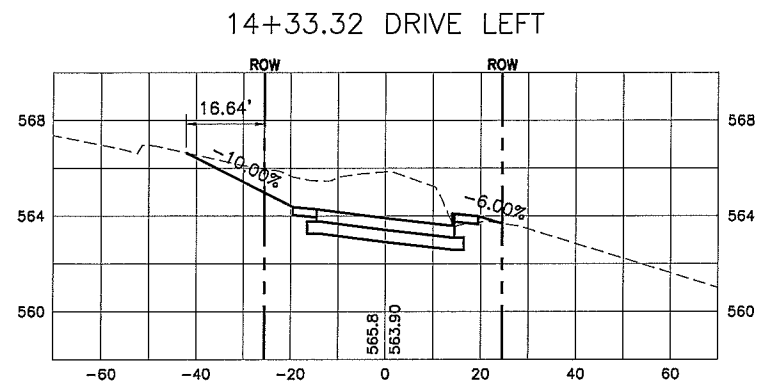
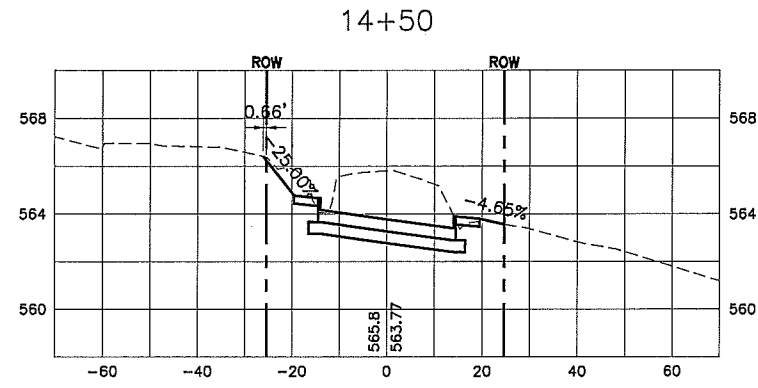


NO.	ISSUE	BY	DATE	F&N JOB NO.	ROK06451
				DATE	MAR 2008
				DESIGNED	CCB
				DRAWN	CHM
				CHECKED	KRJ
				FILE NAME	CV-ROK-XS-ROAD.dwg

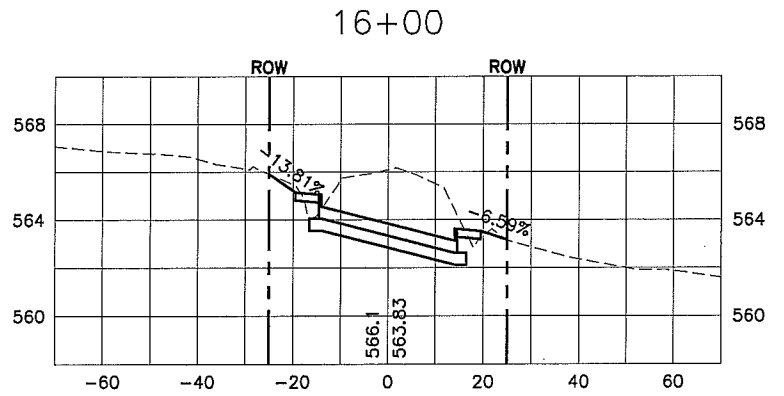
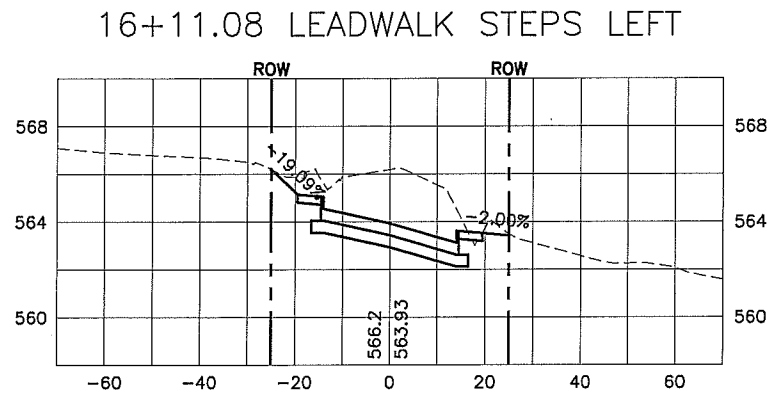
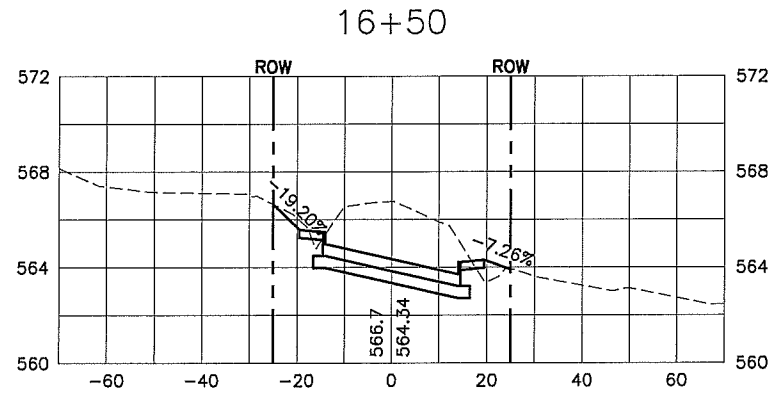
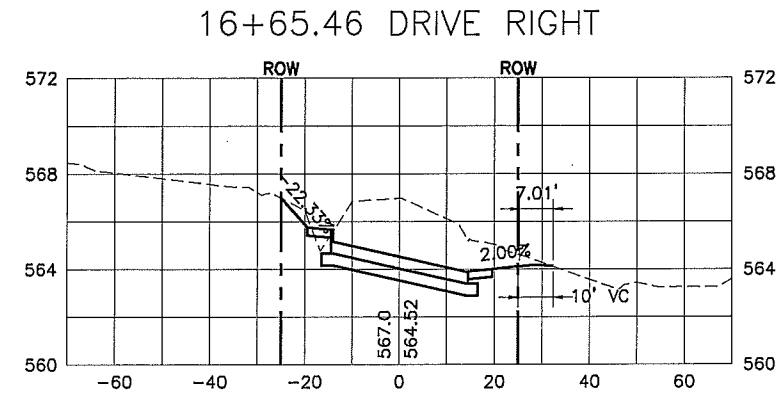
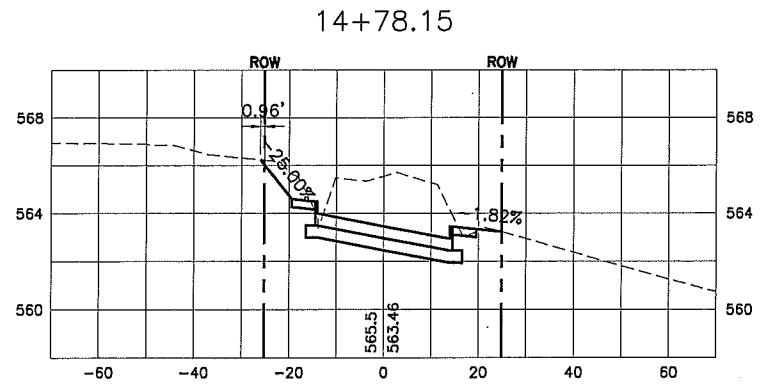
RECORD FOR CONSTRUCTION  
Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.

SCALE:  
HORIZ: 1" = 20'  
VERT 1" = 4'

SHEET XS-4  
SEQ. 28 OF 31



15+22.15  
ROSS ST.



This Record Drawing is a combination of the scaled engineering contract drawings for this project, modified by addenda, change order, field notes, and other information. The information shown on the Record Drawings is believed to be accurate based on our observations performed during construction and the original design drawings on file at the office of FEESE AND NICHOLS, INC. 4005 WINTERBURN, SUITE 200 FORT WORTH, TEXAS 76109-4895 (817) 735-7300 (817) 735-4895 12/29/2008

ISSUED FOR CONSTRUCTION ON 3/19/2008

**Freese and Nichols**  
1701 N. Market Street, Suite 500, LB 51  
Dallas, Texas 75202-2901  
Phone: (214) 920-2500  
Fax: (214) 920-2559

CITY OF ROCKWALL, TEXAS  
SAM HOUSTON STREET  
IMPROVEMENTS  
CIVIL  
CROSS SECTIONS  
STA 13+69.89 TO 16+65.46

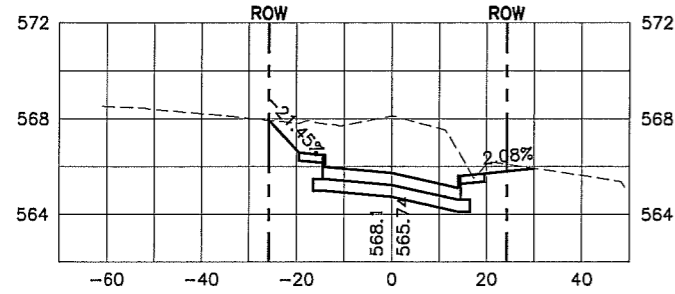


NO.	ISSUE	BY	DATE	REV. NO.	DESCRIPTION
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		KRJ	03/19/08	2	REVISED
					FILE NAME: CV-ROK-XS-ROAD.dwg
					CHECKED: KRJ

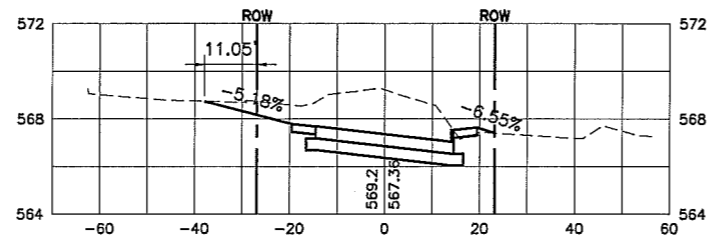
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HORIZ: 1"=20'  
VERT 1"=4'

SHEET XS-5  
SEQ. 29 OF 31

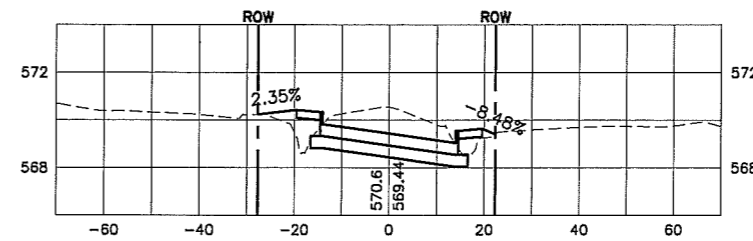
17+47.11 LEADWALK STEPS LEFT



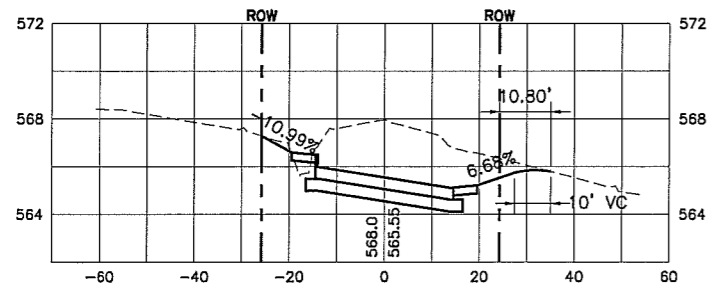
18+25.35 DRIVE LEFT



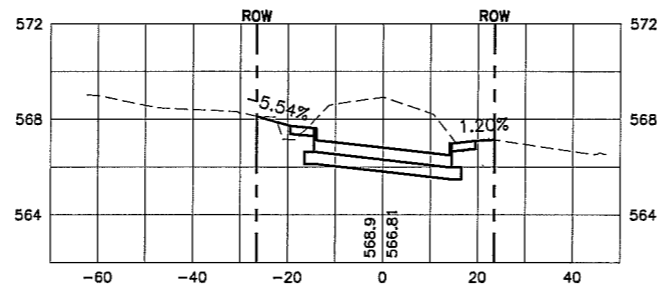
19+00



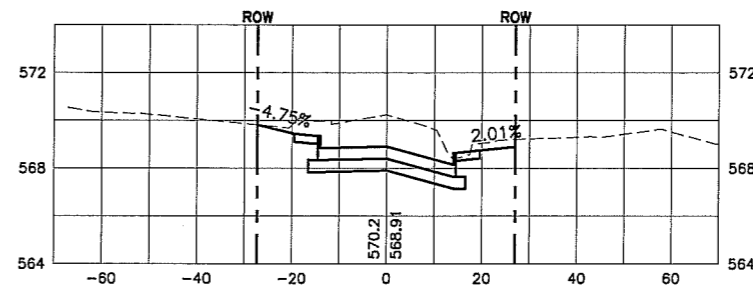
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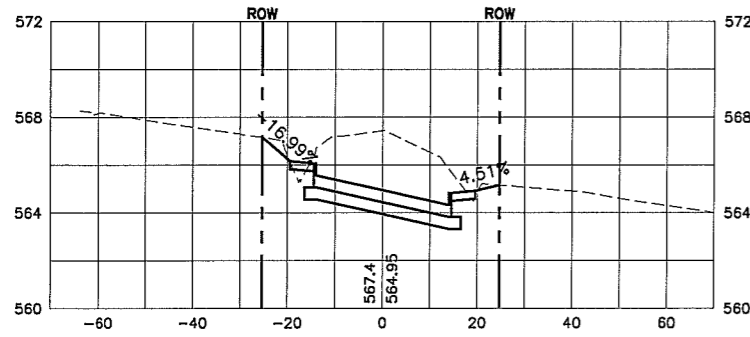
18+00



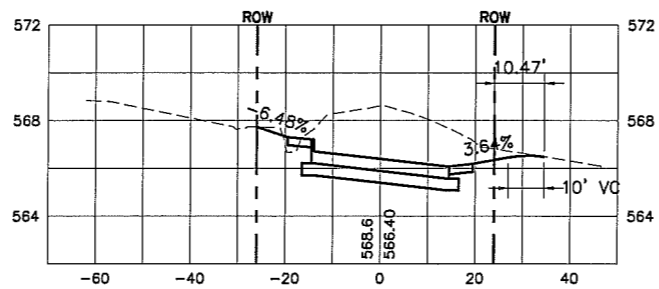
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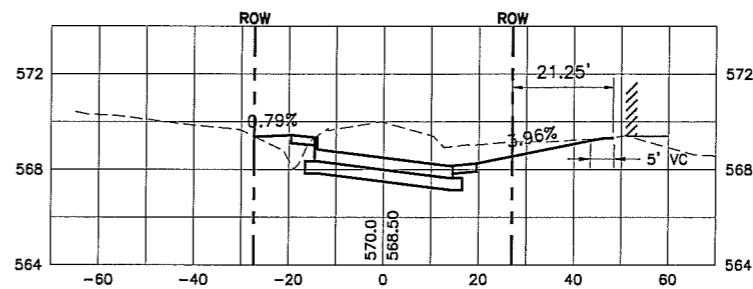
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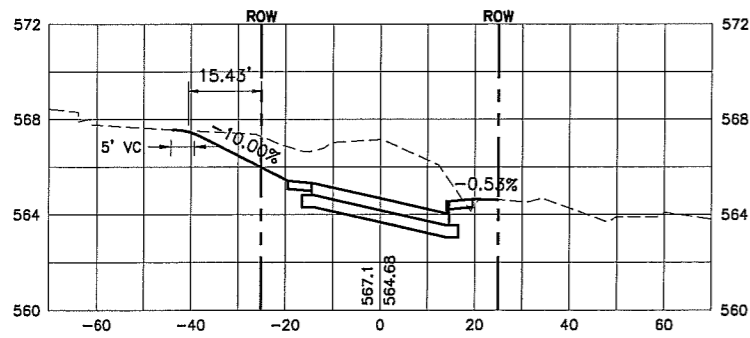
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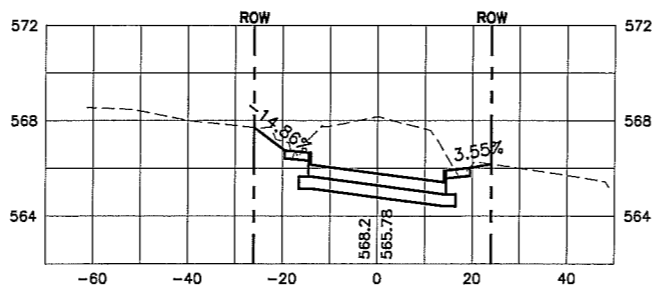
18+69.50 DRIVE RIGHT



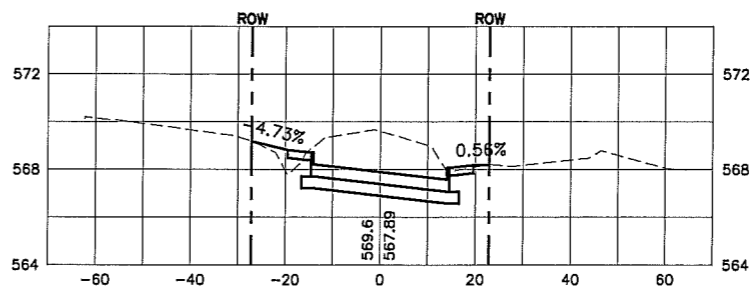
16+78.69 DRIVE LEFT



17+50



18+50



This Record Drawing is a combination of the sealed engineering contract drawings for this project and the information furnished by the contractor. The information shown on the Record Drawings is believed to be accurate based on our inspection of the construction and information furnished by others. The original sealed drawings are on file at the offices of FRESSE AND NICHOLS, INC. 1111 DALLAS, TEXAS 75202-2001 (817) 785-7200 RECORD DRAWING PREPARED ON: 12/20/2008

ISSUED FOR CONSTRUCTION ON 3/19/2008

**Fresse and Nichols**  
CIVIL  
1111 DALLAS, TEXAS 75202-2001  
Phone - (214) 920-2500  
Fax - (214) 920-2555

CITY OF ROCKWALL, TEXAS  
SAM HOUSTON STREET  
IMPROVEMENTS  
CIVIL  
CROSS SECTIONS  
STA 16+78.69 TO 19+00



NO.	ISSUE	BY	DATE	FAR JOB NO.
				ROK06451
				DATE MAR 2008
				DESIGNED CCB
				DRAWN CHM
				REVISION
				FILE NAME
				CY-ROK-XS-ROAD.dwg
				RECORD
				ISSUED FOR CONSTRUCTION
				VERIFIED SCALE
				Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.

SCALE:  
HORIZ: 1"=20'  
VERT 1"=4'

SHEET XS-6  
SEQ. 30 OF 31

MAY 15, 2007 10:45:01 A.M. LTS: 20.00 PSLTS: 0.00 O.D. O.G. O.D. O.O. O.C. O.C. O.O. O.O. O.O.  
2 REFERENCE FILES: ..\BASE\CV-ALL-XS-ROAD and N:\STANDARD\34BORDER

