

AIRPORT ROAD IMPROVEMENTS (JOHN KING BLVD. TO FM 549)

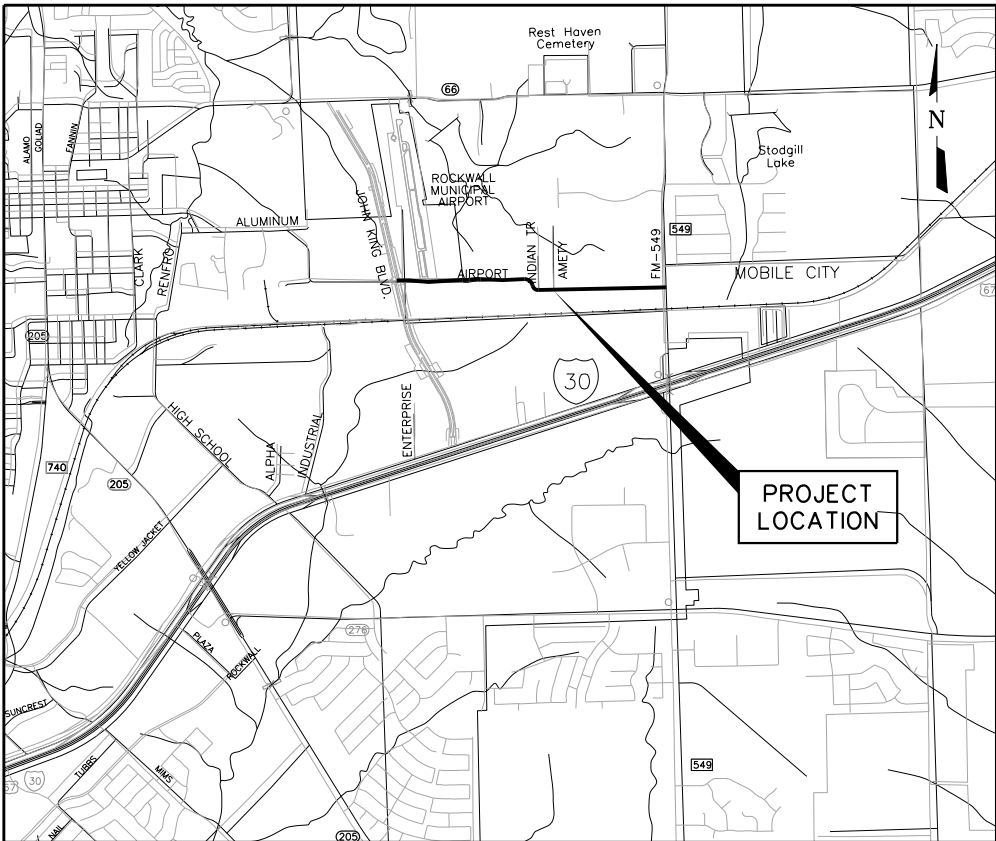


CITY OF ROCKWALL “THE NEW HORIZON”

JANUARY 2013

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CITY MANAGER
CHUCK TODD, P.E.
DIRECTOR OF PUBLIC WORKS



VICINITY MAP
N.T.S.

SHEET NO.	DESCRIPTION
BC(1-12)-07	BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS
TCP(2-2)-03	TRAFFIC CONTROL PLAN
PM(1,4)-03	TYPICAL STANDARD PAVEMENT MARKINGS
PM(6)-01	STANDARD PAVEMENT MARKINGS (ARROWS)
SMD(GEN)-08	SIGN MOUNTING DETAILS, SMALL ROADSIDE SIGNS, GENERAL NOTES & DETAILS
SMD(SLIP-1,2,3)-08	SIGN MOUNTING DETAILS, SMALL ROADSIDE SIGNS. TRIANGULAR SLIPBASE SYSTEM
TSR(4)-08	TYPICAL SIGN REQUIREMENTS
PED-05	PEDESTRIAN FACILITIES
PSET-SP	PRECAST SAFETY END TREATMENT
FW-0	CONCRETE WINGWALLS WITH FLARED WINGS FOR 0° SKEW BOX CULVERTS

FREESE AND NICHOLS
1701 N. Market Street, Suite 500, LB 51
Dallas, TX 75202-2001
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ROK08461

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AUTHORIZED BY Kevin R. Johnson
TEXAS NO: 93882 ON DATE: 2/4/11
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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 information furnished
by the contractor reflecting changes in the
Project made during construction. The original
sealed drawings are on file at the offices of
FREESE AND NICHOLS, INC.
4055 INTERNATIONAL PLAZA, SUITE 200
FORT WORTH, TEXAS 76109-4895
(817) 735-7300 RECORD DRAWINGS
PREPARED ON:
1/18/2013

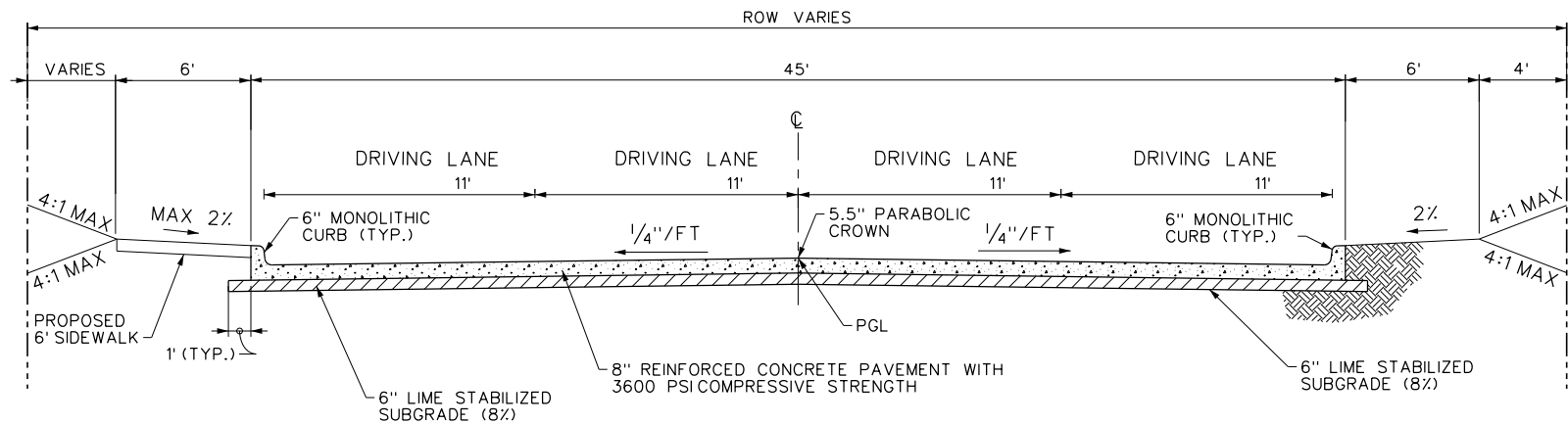
FREESE AND NICHOLS, INC.
TEXAS REGISTERED ENGINEERING
FIRM F-2144

SHEET INDEX

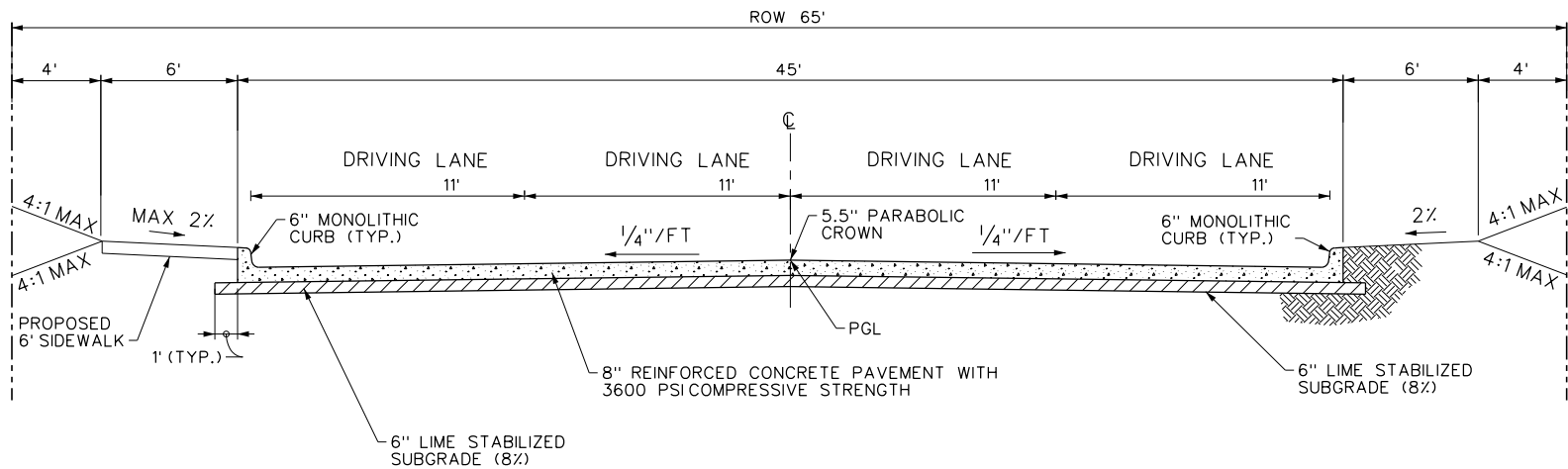
SHEET NO.	SEQ.	DESCRIPTION
	1 OF 79	COVER
GN-1	2 OF 79	GENERAL NOTES
GN-2	3 OF 79	TYPICAL SECTIONS
GN-3	4 OF 79	QUANTITIES
GN-4	5 OF 79	HORIZONTAL CONTROL PLAN
RW-1	6 OF 79	RIGHT-OF-WAY MAP
RW-2	7 OF 79	RIGHT-OF-WAY MAP
RW-3	8 OF 79	RIGHT-OF-WAY MAP
CS-1	9 OF 79	CONSTRUCTION SEQUENCING BEGIN TO STA 20+50
CS-2	10 OF 79	CONSTRUCTION SEQUENCING STA 20+50 TO STA 29+50
CS-3	11 OF 79	CONSTRUCTION SEQUENCING STA 29+50 TO STA 48+00
CS-4	12 OF 79	CONSTRUCTION SEQUENCING STA 48+00 TO END
TD-1	12A OF 79	TRANSITION DETAIL
PV-1	13 OF 79	PAVING PLAN AND PROFILE STA 1+00 TO 6+00
PV-2	14 OF 79	PAVING PLAN AND PROFILE STA 6+00 TO 11+00
PV-3	15 OF 79	PAVING PLAN AND PROFILE STA 11+00 TO 16+00
PV-4	16 OF 79	PAVING PLAN AND PROFILE STA 16+00 TO 21+00
PV-5	17 OF 79	PAVING PLAN AND PROFILE STA 21+00 TO 26+00
PV-6	18 OF 79	PAVING PLAN AND PROFILE STA 26+00 TO 31+00
PV-7	19 OF 79	PAVING PLAN AND PROFILE STA 31+00 TO 36+00
PV-8	20 OF 79	PAVING PLAN AND PROFILE STA 36+00 TO 41+00
PV-9	21 OF 79	PAVING PLAN AND PROFILE STA 41+00 TO 46+00
PV-10	22 OF 79	PAVING PLAN AND PROFILE STA 46+00 TO 51+00
PV-11	23 OF 79	PAVING PLAN AND PROFILE STA 51+00 TO 56+00
PV-12	24 OF 79	F.M 549 INTERSECTION DETAIL
PV-13	25 OF 79	AIRPORT RD TO FM 549
GR-1	26 OF 79	OUTFALL GRADING DETAIL
GR-2	27 OF 79	FM 549 GRADING DETAIL
AM-1	28 OF 79	AMITY LANE
AM-2	29 OF 79	AMITY LANE
AM-3	29A OF 79	AMITY LANE
IN-1	30 OF 79	INDIAN TRAIL
IN-2	31 OF 79	INDIAN TRAIL
PM-1	32 OF 79	PAVEMENT MARKING AND SIGNAGE BEGIN TO STA 20+50
PM-2	33 OF 79	PAVEMENT MARKING AND SIGNAGE STA 20+50 TO STA 41+00
PM-3	34 OF 79	PAVEMENT MARKING AND SIGNAGE STA 41+00 TO END
DA-1	35 OF 79	DRAINAGE AREA MAP
DA-2	36 OF 79	HYDRAULIC CALCULATIONS
DA-3	37 OF 79	HYDRAULIC CALCULATIONS
SD-1	38 OF 79	PLAN AND PROFILE STORM DRAIN LINE
SD-2	39 OF 79	PLAN AND PROFILE STORM DRAIN LINE
SD-3	40 OF 79	PLAN AND PROFILE STORM DRAIN LINE
SD-4	41 OF 79	PLAN AND PROFILE STORM DRAIN LINE
SD-5	42 OF 79	PLAN AND PROFILE STORM DRAIN LINE
SD-6	43 OF 79	PLAN AND PROFILE STORM DRAIN LINE
SD-7	44 OF 79	PLAN AND PROFILE STORM DRAIN LINE
SD-8	45 OF 79	PLAN AND PROFILE STORM DRAIN LINE
SD-9	46 OF 79	PLAN AND PROFILE STORM DRAIN LINE
LTS-1	47 OF 79	STORM DRAIN LATERALS A
LTS-2	48 OF 79	STORM DRAIN LATERALS B
LTS-3	49 OF 79	STORM DRAIN LATERALS B & C
WT-1	50 OF 79	WATERLINE STA 1+00 TO 11+00
WT-2	51 OF 79	WATERLINE STA 11+00 TO 21+00
WT-3	52 OF 79	WATERLINE STA 21+00 TO 31+00
WT-4	53 OF 79	WATERLINE STA 31+00 TO 41+00
WT-5	54 OF 79	WATERLINE STA 41+00 TO 51+00
WT-6	55 OF 79	WATERLINE STA 51+00 TO END
WT-7	55A OF 79	AMITY WATERLINE BEGIN TO STA 11+00
WT-8	55B OF 79	AMITY WATERLINE STA 11+00 TO END
WT-9	55C OF 79	INDIAN TRAIL WATERLINE BEGIN TO STA 11+00
WT-10	55D OF 79	INDIAN TRAIL WATERLINE STA 11+00 TO END
XS1-16	56 - 71	AIRPORT ROAD CROSS SECTIONS
XS17-18	72 - 73	FM549 CROSS SECTIONS
XS19-21	73A - 73C	AMITY LANE CROSS SECTIONS
DT-1	74 OF 79	PAVING DETAILS
DT-2	75 OF 79	MISC DETAILS
DT-3	76 OF 79	BRICK PAVER DETAILS
DT-4	77 OF 79	STORM DRAIN DETAILS
DT-5	78 OF 79	WATERLINE DETAILS
DT-6	79 OF 79	SANITARY SEWER DETAILS

MicroStation V8 User: 02069Office: Dallas
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Plot Scale: 1"=50'-0" 1/8"=1'-0" 1/4"=2'-0" 1/2"=4'-0" 3/4"=6'-0" 1"=8'-0" 1 1/4"=10'-0" 1 1/2"=12'-0" 1 3/4"=14'-0" 2"=16'-0" 2 1/4"=18'-0" 2 1/2"=20'-0" 2 3/4"=22'-0" 3"=24'-0" 3 1/4"=26'-0" 3 1/2"=28'-0" 3 3/4"=30'-0" 4"=32'-0" 4 1/4"=34'-0" 4 1/2"=36'-0" 4 3/4"=38'-0" 5"=40'-0" 5 1/4"=42'-0" 5 1/2"=44'-0" 5 3/4"=46'-0" 6"=48'-0" 6 1/4"=50'-0" 6 1/2"=52'-0" 6 3/4"=54'-0" 7"=56'-0" 7 1/4"=58'-0" 7 1/2"=60'-0" 7 3/4"=62'-0" 8"=64'-0" 8 1/4"=66'-0" 8 1/2"=68'-0" 8 3/4"=70'-0" 9"=72'-0" 9 1/4"=74'-0" 9 1/2"=76'-0" 9 3/4"=78'-0" 10"=80'-0" 10 1/4"=82'-0" 10 1/2"=84'-0" 10 3/4"=86'-0" 11"=88'-0" 11 1/4"=90'-0" 11 1/2"=92'-0" 11 3/4"=94'-0" 12"=96'-0" 12 1/4"=98'-0" 12 1/2"=100'-0" 12 3/4"=102'-0" 13"=104'-0" 13 1/4"=106'-0" 13 1/2"=108'-0" 13 3/4"=110'-0" 14"=112'-0" 14 1/4"=114'-0" 14 1/2"=116'-0" 14 3/4"=118'-0" 15"=120'-0" 15 1/4"=122'-0" 15 1/2"=124'-0" 15 3/4"=126'-0" 16"=128'-0" 16 1/4"=130'-0" 16 1/2"=132'-0" 16 3/4"=134'-0" 17"=136'-0" 17 1/4"=138'-0" 17 1/2"=140'-0" 17 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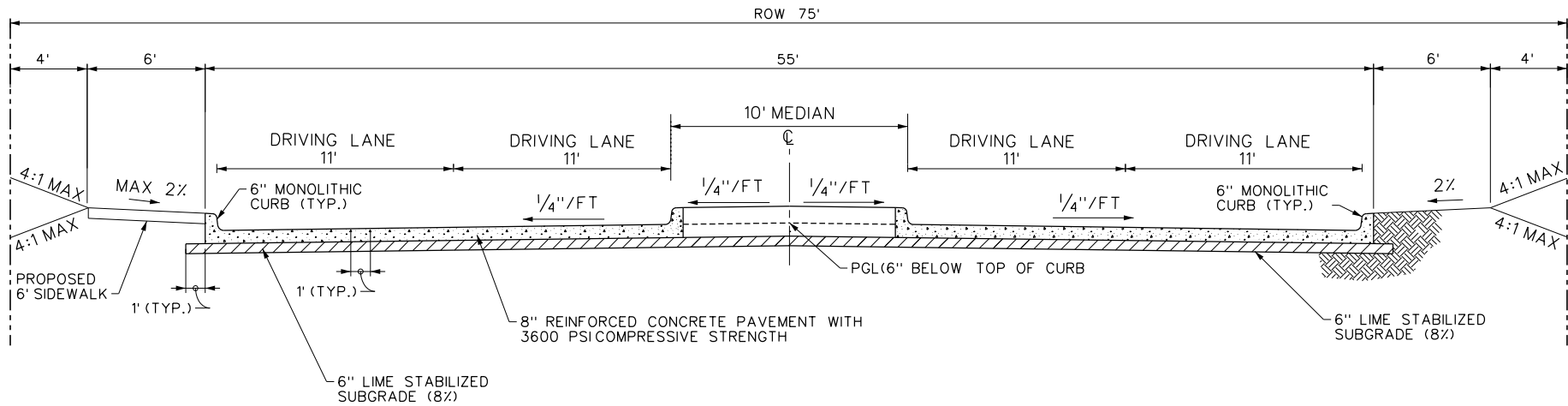
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Date: Jan. 29, 2013 - 08:11:50 AM Project: Freese and Nichols, Inc.



1
AIRPORT ROAD PAVEMENT SECTION
BEGINNING TO STA 31+31.23
N.T.S.



2
AIRPORT ROAD PAVEMENT SECTION
STA 31+31.23 TO 54+26.83
N.T.S.



3
AIRPORT ROAD PAVEMENT SECTION
STA 54+85.78 TO END
N.T.S.

LEGEND:

	EXISTING	PROPOSED
R.O.W. LINE	----	----
PRESCRIPTIVE R.O.W. LINE		----
DAYLIGHT LINE	----	----
BUILDING LINE	----	----
SANITARY SEWER	SS	----
WATER	W	----
FIRE HYDRANT	⊙	⊙
WATER METER	⊗	⊗
WATER VALVE	⊗ _{WV}	⊗
ELECTRICAL PANEL	⊞	⊞
TELEPHONE RISER	⊞	⊞
POWER POLE	⊞	⊞
SEWER MANHOLE	⊙ _{SAN MH}	⊙
SIGN POST	⊞	⊞
ELEC. JUNCTION BOX	⊞ _{ELECT}	⊞
ELEC. GUY WIRE	,	,
GAS	G	G
TELEPHONE LINE	T	T
ELECTRIC LINE	E	E
REMOVE TREE	⊗	⊗
8" REINFORCED CONCRETE PAVEMENT	▨	▨
6" REINFORCED CONCRETE DRIVEWAY PAVEMENT	▨	▨
ASPHALT PAVEMENT	▨	▨
SIDEWALK	▨	▨
6" COMPACTED GRAVEL	▨	▨
RIP RAP	▨	▨
CONTOUR	583	583

This Record Drawing is a combination of the project, modified by information furnished by the contractor reflecting changes in the project. It is the responsibility of the contractor to verify the accuracy of the original drawings and to make any necessary corrections. The drawings are on file at the office of
FRESE AND NICHOLS, INC.
4055 INTERNATIONAL PLAZA, SUITE 200
DALLAS, TEXAS 75202
(817) 735-7200
PREPARED ON: 3/18/2013

THE SEAL, THE ORIGINALITY, APPEARED ON THIS DOCUMENT WAS
TEKNOLOGICAL, INC. ON DATE: 2/7/11
ALTERATION ON A SEALED DOCUMENT WITHOUT PROPER
OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE
ACT.
Freese and Nichols, Inc., Texas Board of Professional
Engineers Reg. No. 2144

FRESE AND NICHOLS
1701 N. Market Street, Suite 500, LB 51
Dallas, TX 75202-2001
Tel - (214) 217-2200
Fax - (214) 217-2201
Web - www.freese.com

CITY OF ROCKWALL, TEXAS
AIRPORT ROAD RECONSTRUCTION

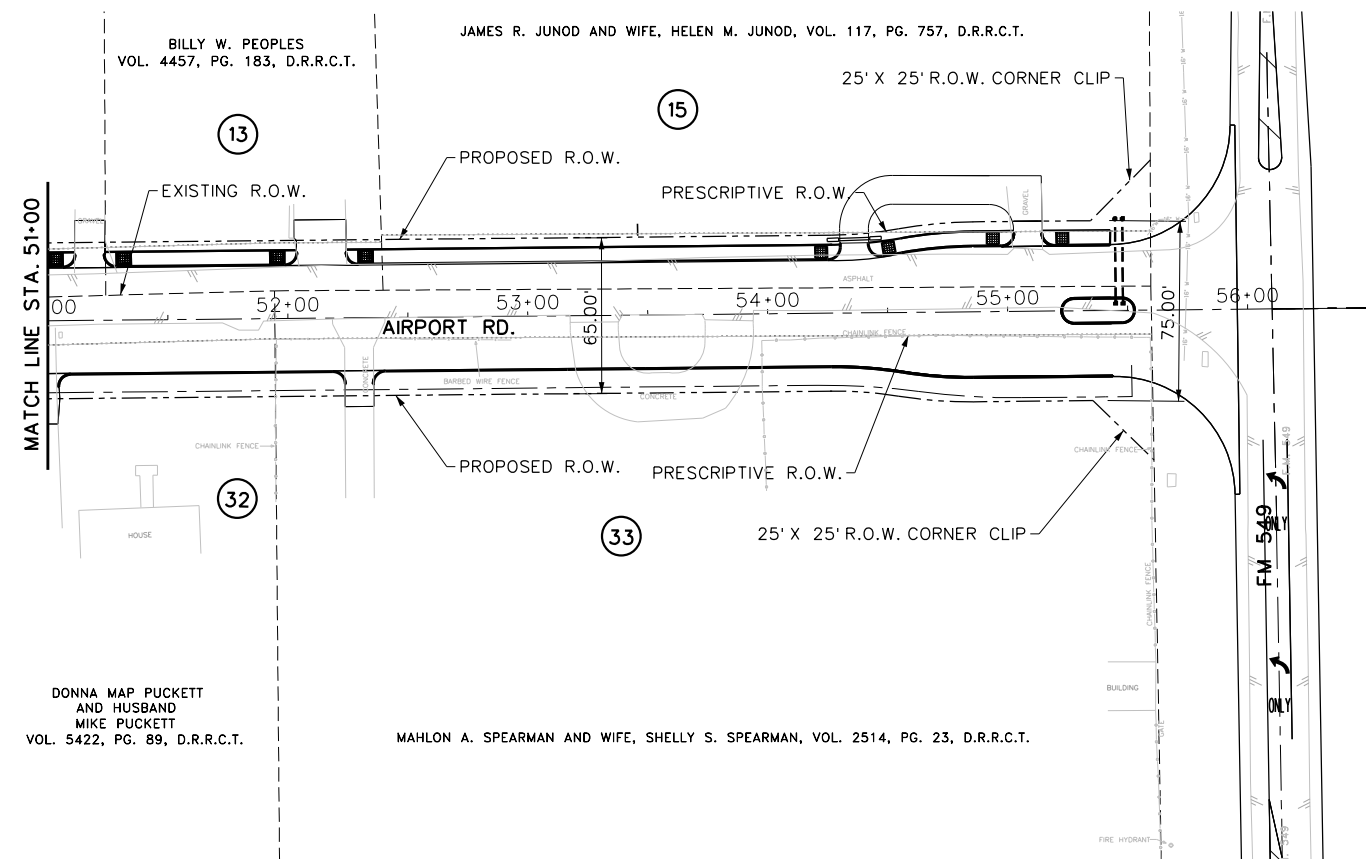
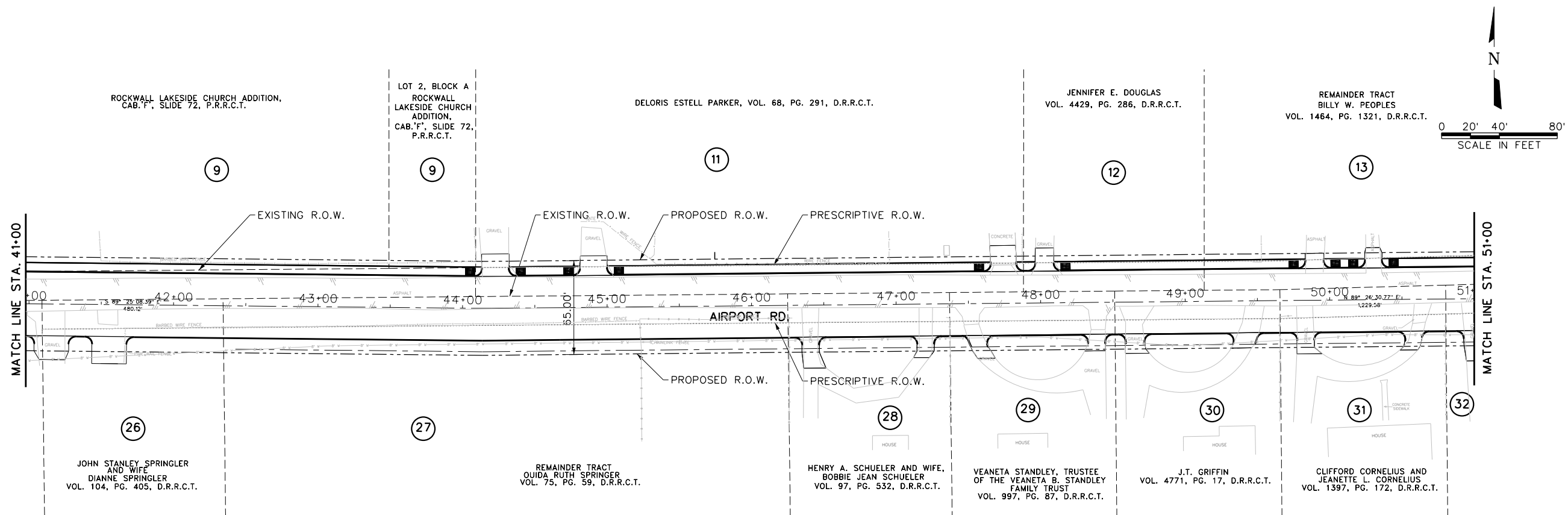
CIVIL
TYPICAL SECTIONS AND LEGEND

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SEQ.						3 OF 79

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1881



LEGEND

---	PROPOSED ROW
- - -	EXISTING ROW
.....	PRESCRIPTIVE ROW
(#)	ROW DOCUMENT NUMBER

NOTE:
PROPERTY OWNER NAMES AND ADDRESSES
SHOWN ARE TO THE BEST OF OUR
KNOWLEDGE. FOR THE LATEST INFORMATION,
PLEASE REFER TO THE RIGHT-OF-WAY
DOCUMENTS, AVAILABLE FROM CITY UPON
REQUEST.

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

FRESEE AND NICHOLS, INC.
4055 INTERNATIONAL PLAZA, SUITE 200
FORT WORTH, TEXAS 76109-4895
(817) 735-7300 RECORD DRAWINGS
PREPARED ON: 1/18/2013

FREESE
NICHOLS
92

1701 N. Market Street, Suite 500, LB 51
Dallas, TX 75202-2001
Phone - (214) 217-2200
Fax - (214) 217-2201
Web - www.freese.com

Freese and Nichols, Inc. Texas Board of Professional Engineers Reg. No. 2144

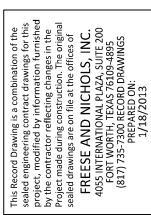
CITY OF ROCKWALL, TEXAS
AIRPORT ROAD RECONSTRUCTION

CIVIL
RIGHT-OF-WAY MAP
STA 41+00 TO END

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			DATE 05/15/12	
			DESIGNED KRJ	
			DRAWN SLT	
			REVISED	
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Office: Dallas ROK08461 Date: Jan. 29, 2013 - 08:12:07 AM User: 02069File: N:\IF\Drawings\cv-trt-gn-rowm03.sht



6. ANY PROPOSED CHANGES TO PHASING PLAN MUST BE APPROVED BY CITY ENGINEER.
7. TRAFFIC CONTROL AND PROTECTIVE DEVICES SHALL BE USED AND SHALL CONFORM TO THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. BARRICADES, WARNING SIGNS, FLARES, FLASHING DEVICES, AND FLAG PERSONS SHALL BE PROVIDED BY THE CONTRACTOR.
8. SILT FENCE TO BE INSTALLED AT EDGE OF AREA TO BE DISTURBED PRIOR TO CONSTRUCTION.
9. WORK ON AMITY LANE AND INDIAN TRAIL TO BE DONE AFTER AIRPORT ROAD COMPLETION.
10. WORK ON FM 549 TO BE DONE AFTER AIRPORT ROAD COMPLETION.

THE SEAL THAT ORIGINALLY APPEARED ON THIS DOCUMENT WAS AUTHORIZED BY Kevin R. Johnson
TEXAS NO: 93882 ON DATE: 3/25/11
ALTERATION ON A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

Freese and Nichols, Inc. Texas Board of Professional Engineers Reg. No. 2144

CIVIL CONSTRUCTION SEQUENCING
STA 20+50 TO STA 31+50

CIVIL

CHECKED
REVISED

CRJ	2/23/2011
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K	ch on original
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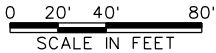
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	VERIFY SCALE

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79

EXISTING ASPHALT PAVEMENT

5. CONTRACTOR TO ENSURE PROPER DRAINAGE THROUGHOUT ALL CONSTRUCTION PHASES.

10. WORK ON FM 549 TO BE DONE AFTER
AIRPORT ROAD COMPLETION.



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LEGEND

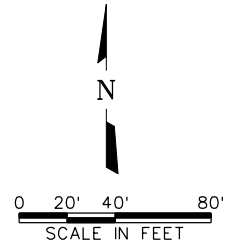
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CITY OF ROCKWALL, TEXAS

CIVIL
CONSTRUCTION SEQUENCING
STA 31+50 TO STA 48+00

FREESE
AND NICHOLS
1701 N. Market Street, Suite 500, LB 51

Freese and Nichols, Inc. Texas Board of Professional Engineers Reg. No. 2144



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AIRPORT ROAD RECONSTRUCTION

CIVIL
CONSTRUCTION SEQUENCING
2A & 2B, STA 48+00 TO END

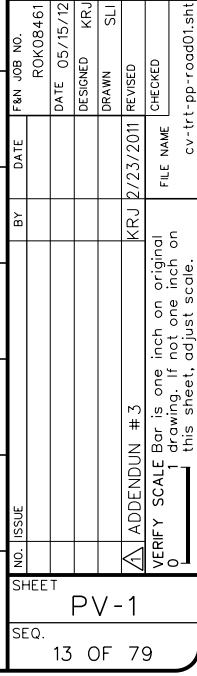
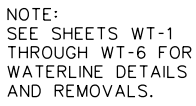
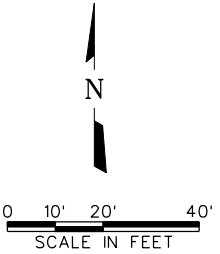
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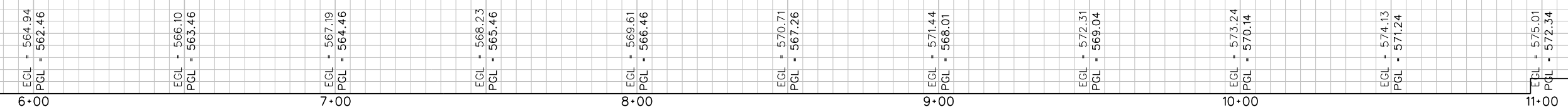
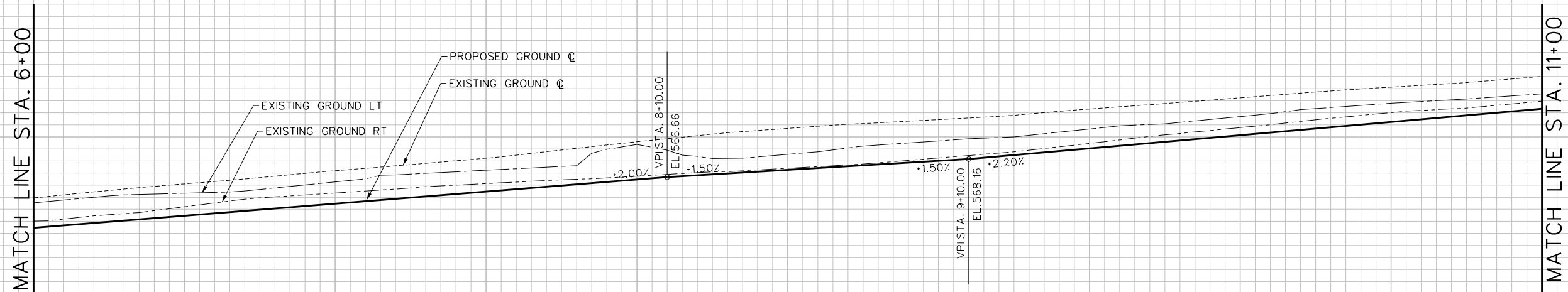
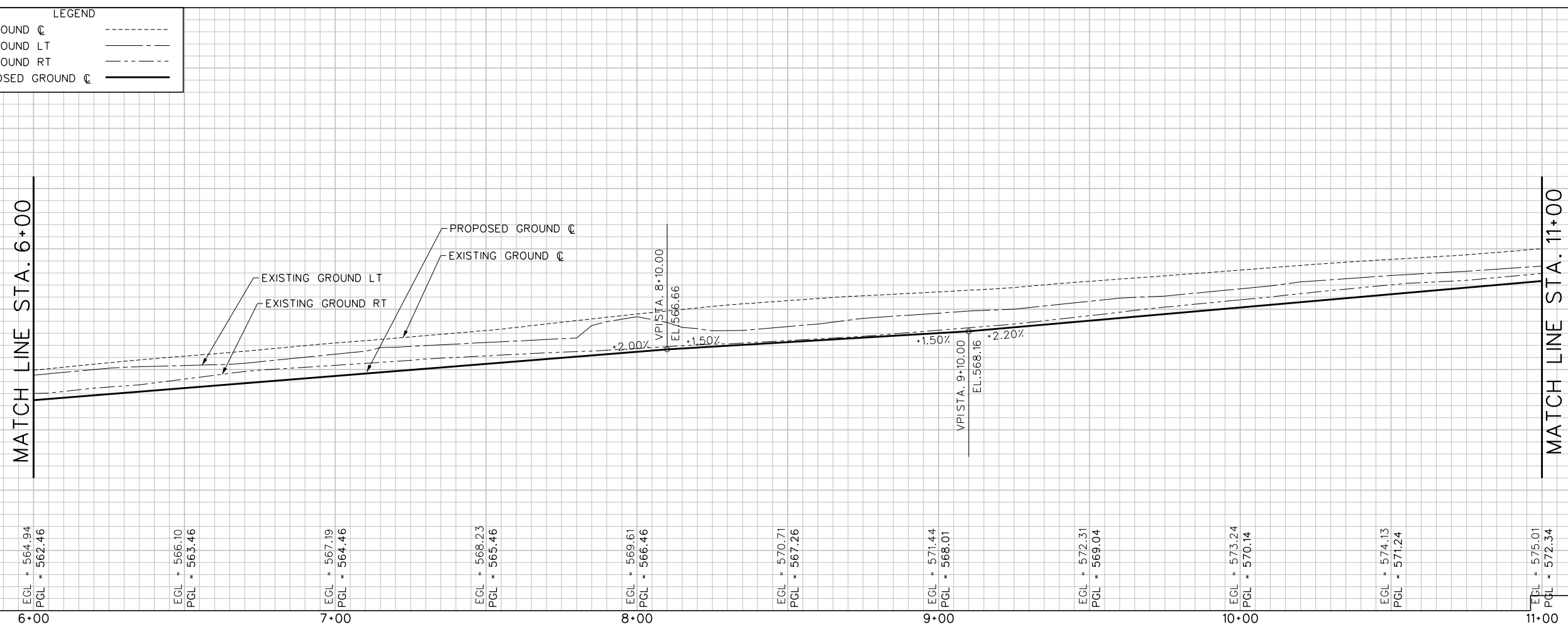
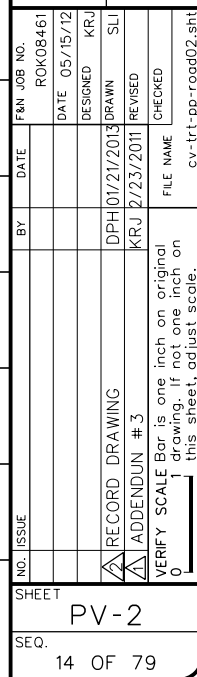
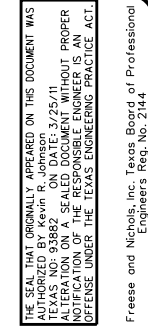
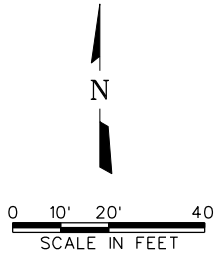
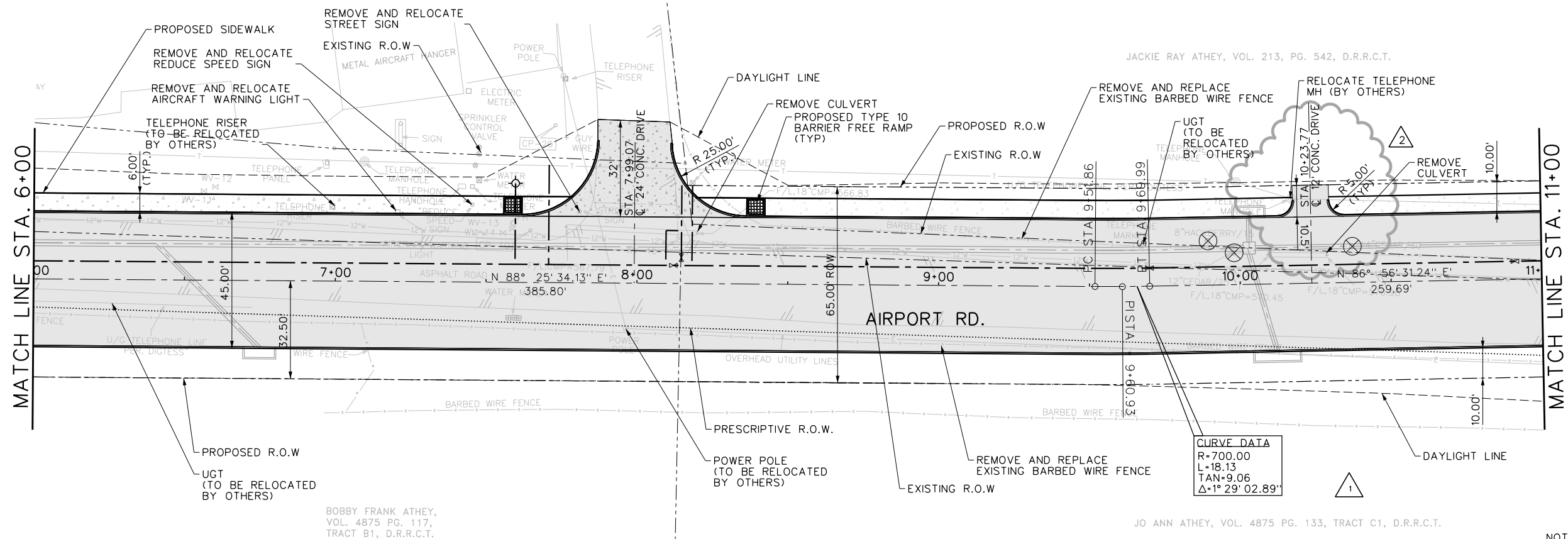
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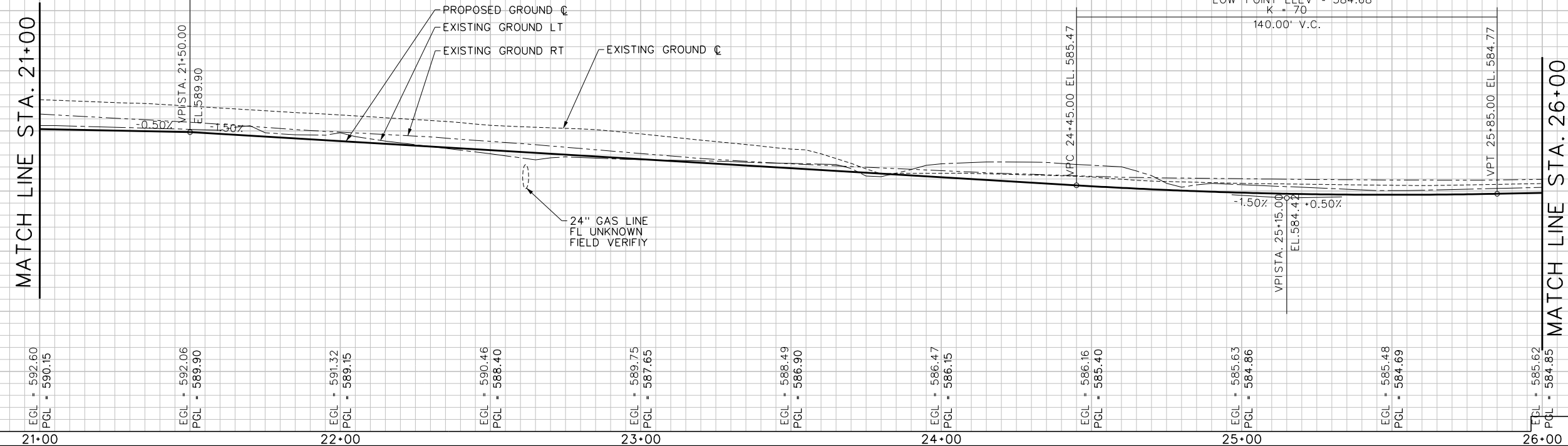
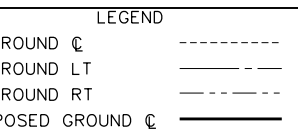
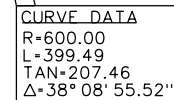
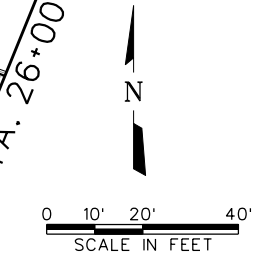
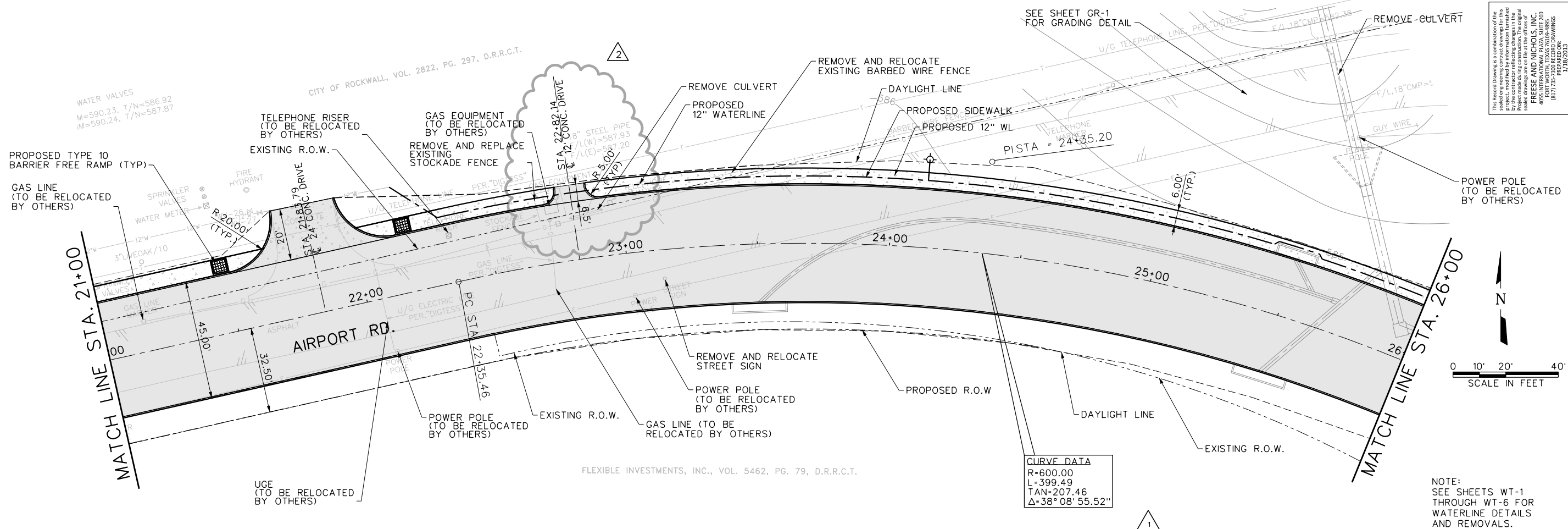
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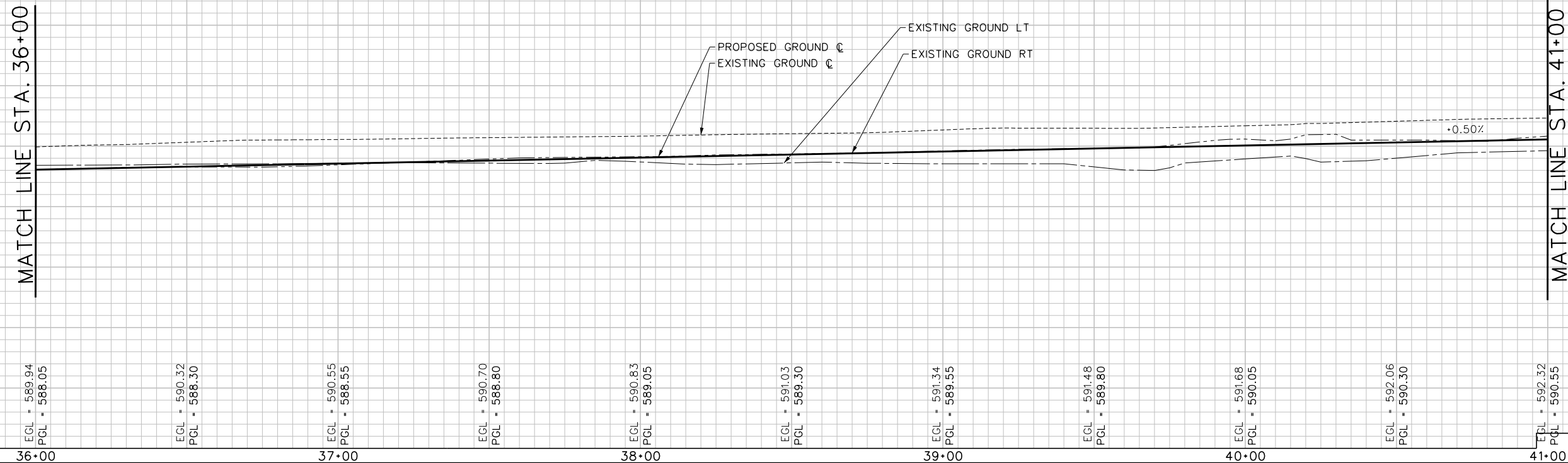
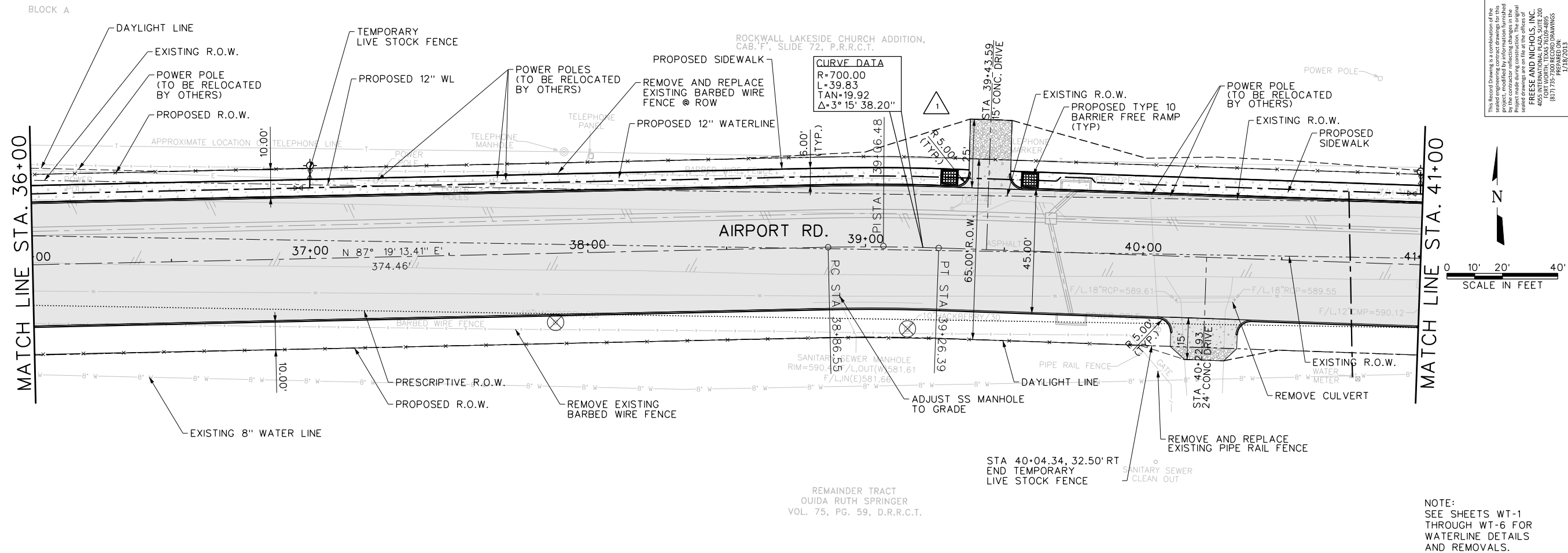
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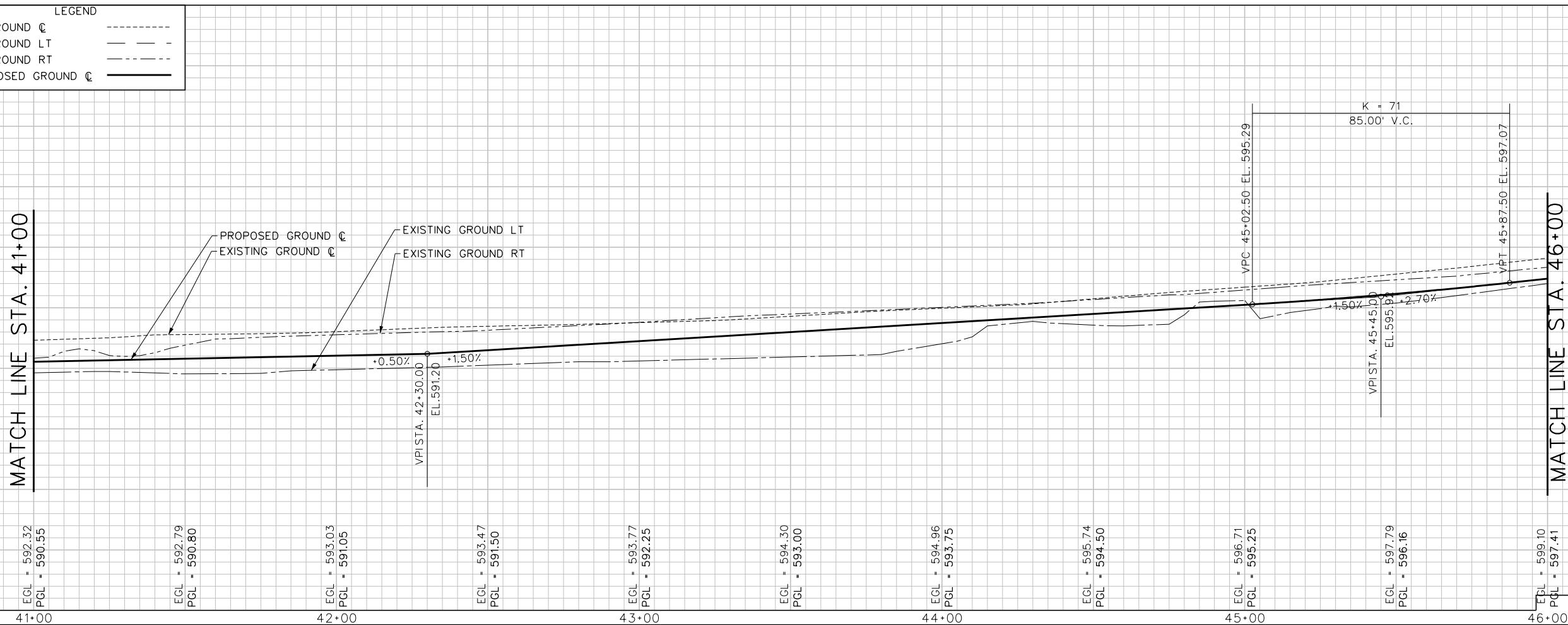
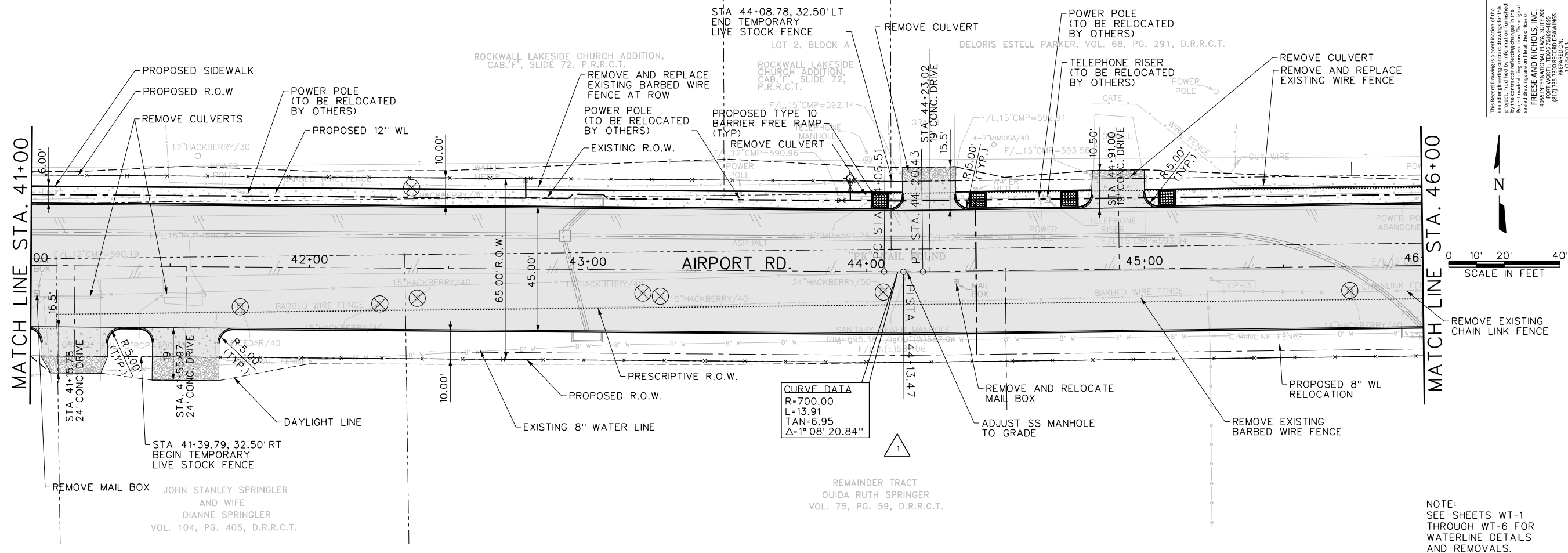
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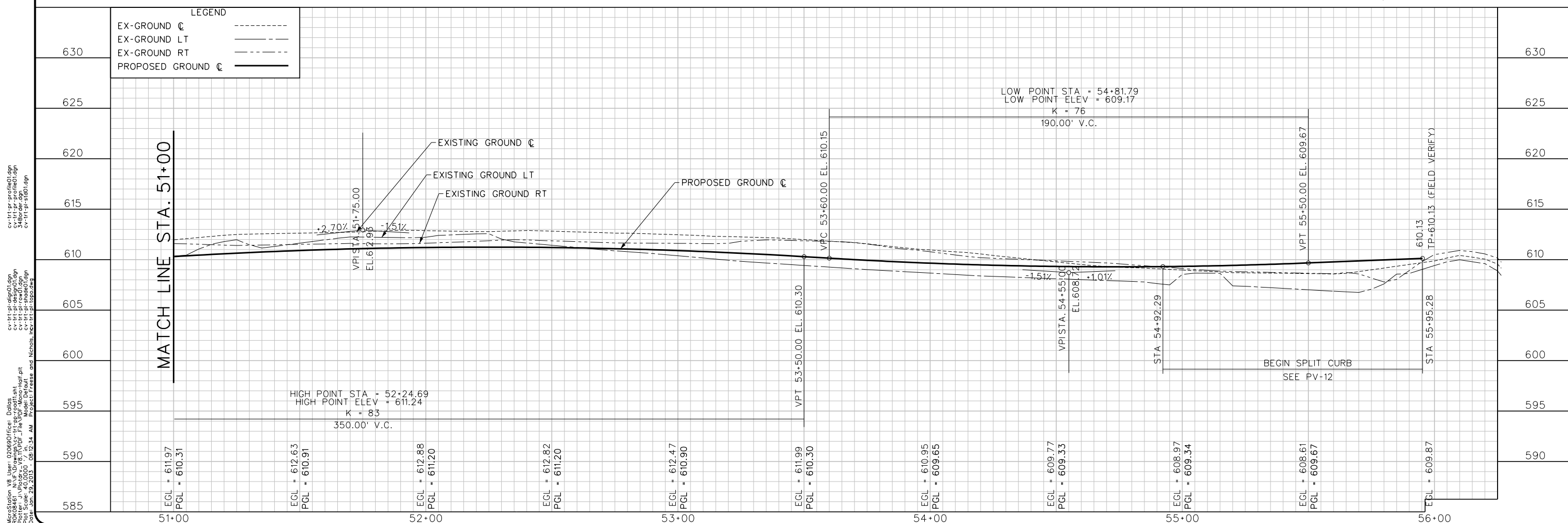
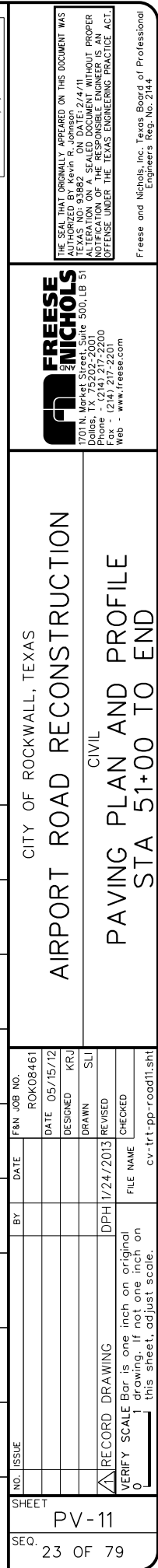
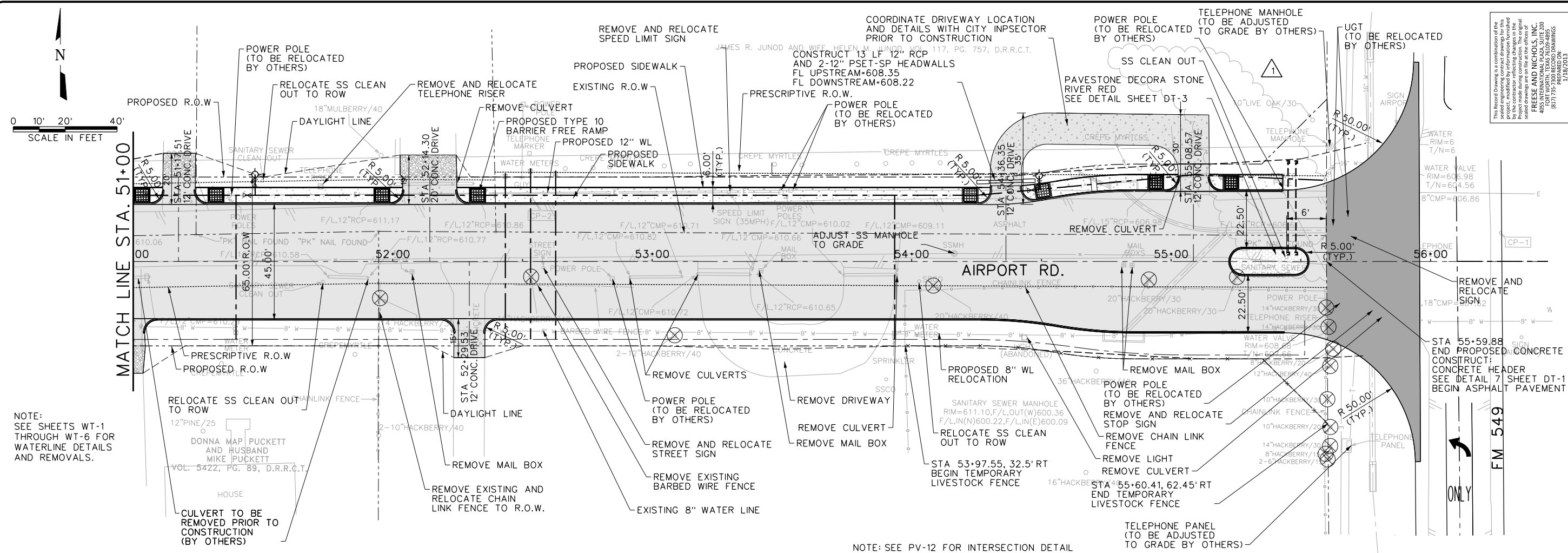












Engineering plan view of Airport Rd. showing pavement layout, stationing, and various utility details. The plan includes a stationing table, a north arrow, and a scale bar.

POINT	STA	OFFSET	TC ELEVATION
1	54+92.29	27.50 RT	609.26
2	55+26.14	27.50 RT	609.69
3	55+43.59	27.50 RT	609.46
4	55+78.81	42.01 RT	610.31
5	55+87.03	52.73 RT	610.64
6	54+92.29	27.50 LT	609.26
7	55+26.14	27.50 LT	609.48
8	55+42.97	27.50 LT	609.14
9	55+78.06	41.89 LT	609.34
10	55+88.01	55.95 LT	609.26
11	55+27.73	5.00 RT	609.93
12	55+47.73	5.00 RT	610.13
13	55+27.73	5.00 LT	609.89
14	55+47.73	5.00 LT	610.07

Key features and notes include:

- Coordinate driveway location and details with city inspector prior to construction.
- Construct 13 LF 12" RCP and 2-12" PSET-SP HEADWALLS FL UPSTREAM+608.35 FL DOWNSTREAM+608.22.
- Drainage easement.
- STA 54+85.56, 22.50 LT END PAVEMENT TRANSITION.
- STA 55+42.97, 27.50' LT TRANSITION CURB FROM 6" TO 0" OVER 5'.
- 10" LIVE OAK/30'.
- TELEPHONE MANHOLE.
- WATER VALVE RIM=606.89 T/N=605.10.
- WATER VALVE RIM=606.98 T/N=604.56.
- 8" CMP=606.86.
- EX.+609.77 FIELD VERIFY.
- STA 55+59.88 END PROPOSED CONCRETE CONSTRUCT: CONCRETE HEADER SEE DETAIL 7 SHEET DT-1 BEGIN ASPHALT PAVEMENT.
- STA 55+95.28 END PROPOSED PVT MATCH FM 549 CROSS SLOPE EL+610.14 FIELD VERIFY.
- 18" CMP=607.62.
- EX.+610.56 FIELD VERIFY.
- FM 549.
- ONLY.
- EX.+611.24 FIELD VERIFY.

1.SEE PV-11 FOR GENERAL REMOVAL CALL
OUTS.

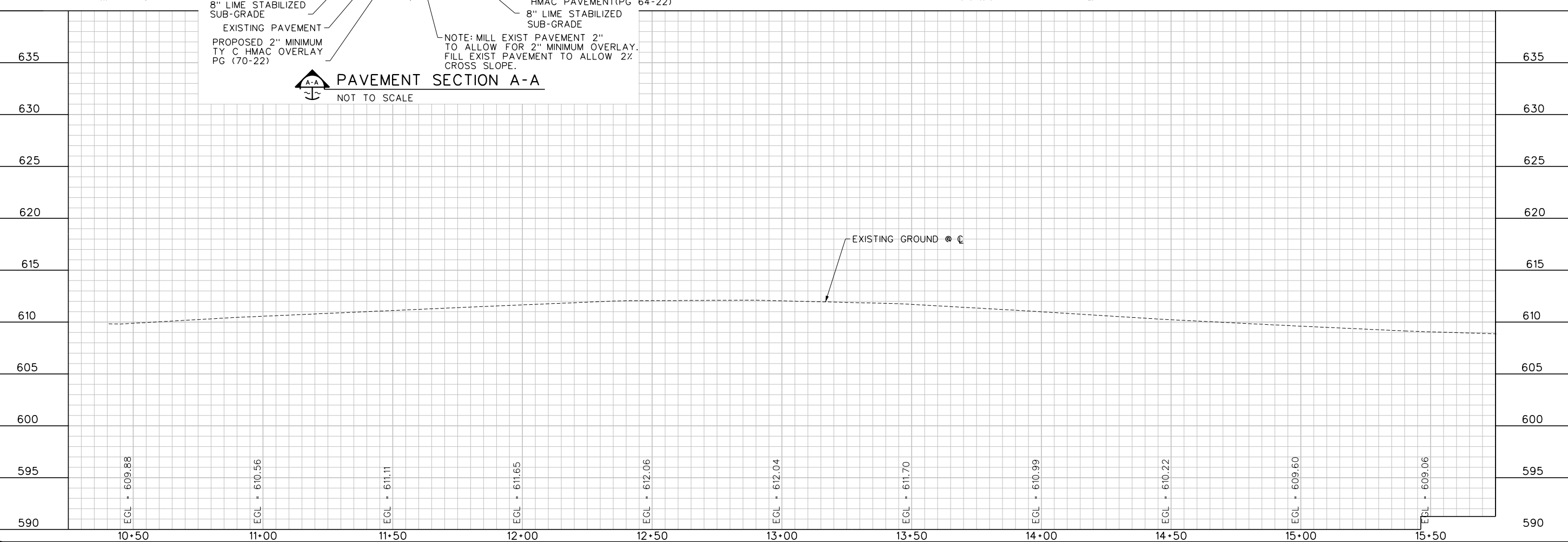
2.SEE PV-13 FOR FM549 PAVING DETAILS

3.SEE GR-2 FOR GRADING DETAILS

4.SEE SHEETS WT-1 THROUGH WT-6 FOR
WATERLINE DETAILS AND REMOVALS.

FILE NAME cv-1rt-pl-into01.sht VERIFY SCALE Bar is one inch on original drawing. If not one inch on this sheet, adjust scale. 0 1		
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THE SEAL THAT ORIGINALLY APPEARED ON THIS DOCUMENT WAS
 AUTHORIZED BY Kevin R. Johnson ON DATE: 2/4/11
 TEXAS NO: 93862 ON DATE: 2/4/11
 ALTERATION ON A SEALED DOCUMENT WITHOUT PROPER
 NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN
 OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT

Freese and Nichols, Inc. Texas Board of Professional
 Engineers Reg. No. 2144.

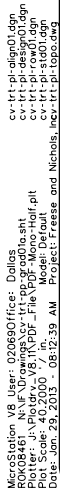
AIRPORT ROAD RECONSTRUCTION
CIVIL
PAVING PLAN
AIRPORT ROAD AND FM 549

DATE	05/15/12
DESIGNED	KRJ
DRAWN	SJI
REVISED	
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NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN
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FREESE
NICHOLS
and
Associates
7070 N. Market Street, Suite 500, LB 51
Dallas, TX 75202-2001
Phone - (214) 217-2200
Fax - (214) 217-2201
Web - www.freese.com

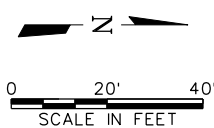
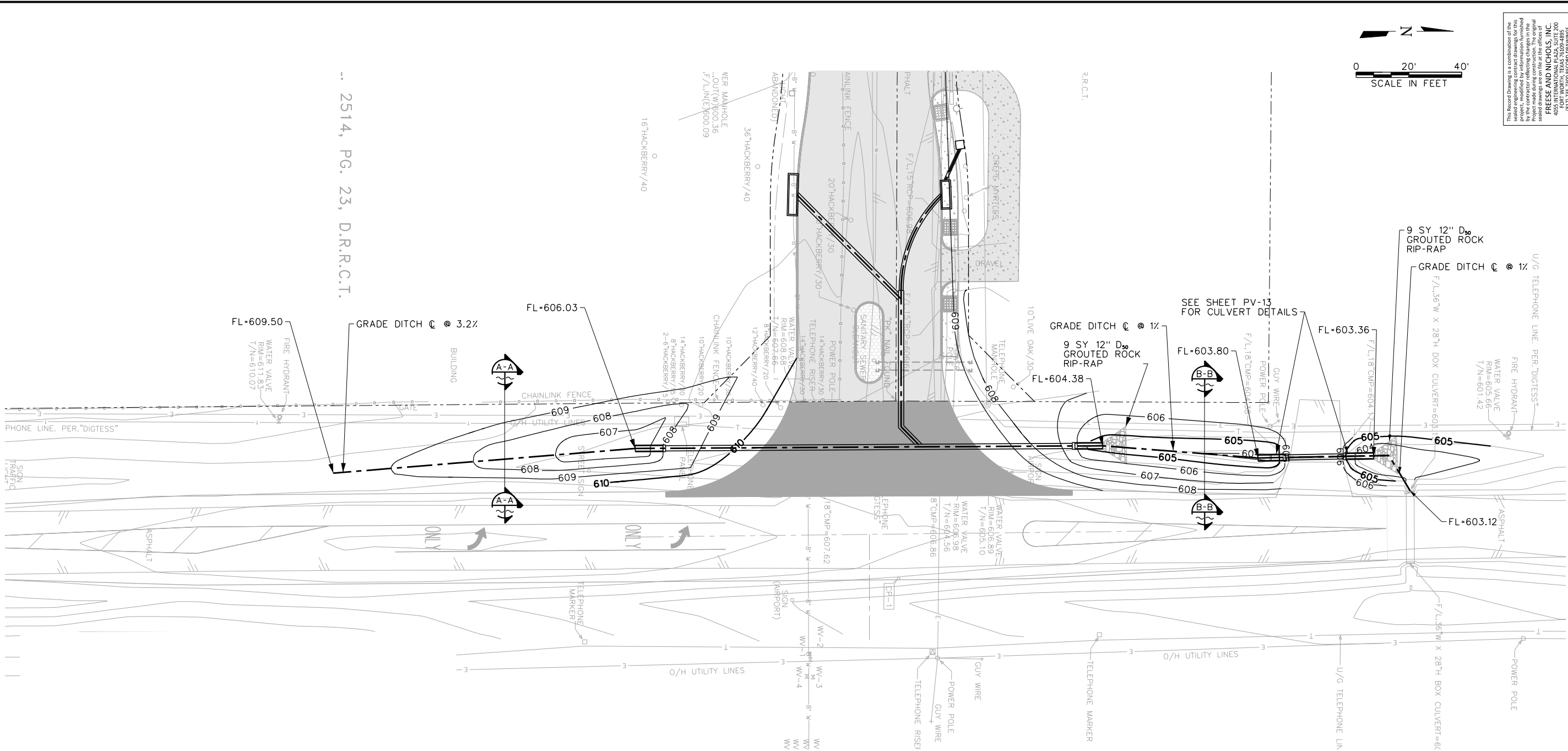
CITY OF ROCKWALL, TEXAS

AIRPORT ROAD RECONSTRUCTION

CIVIL

OUTFALL GRADING DETAIL

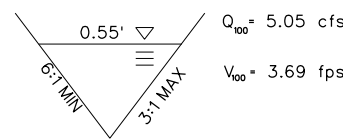
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This Record Drawing is a combination of the original design and field data furnished by the contractor reflecting changes in the project. It is the responsibility of the engineer to ensure that the final record drawings are on file at the office of the engineer.

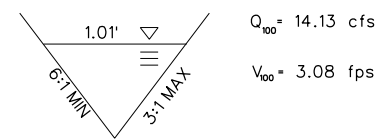
FREES AND NICHOLS, INC.
4055 INTERNATIONAL PLAZA, SUITE 200
DALLAS, TEXAS 75244
(817) 735-7300
PREPARED ON: 11/18/2013

D.A. Area	C	Time to Inlet	Intensity 100 yr	Q 100yr
acres		min	in/hr	cfs
1.63	0.50	10	9.80	5.05



A-A DRAINAGE CHANNEL TYPICAL SECTION
NOT TO SCALE

D.A. Area	C	Time to Inlet	Intensity 100 yr	Q 100yr
acres		min	in/hr	cfs
0.10	0.60	10	9.80	0.59
Culvert Outfall				13.54
Total Flow				14.13



B-B DRAINAGE OUTFALL TYPICAL SECTION
NOT TO SCALE

RIPRAP GRADATIONS	
18" THICKNESS	
SIEVE SIZE	PERCENT PASSING
SQUARE MESH	
21 INCH	100
18 INCH	65-100
12 INCH	35-65
8 INCH	15-40
6 INCH	5-25
4 INCH	0-15

NOTE:
1. ALL DISTURBED AREAS TO BE SODDED.
2. SEE SD-9 FOR STORM DRAIN DETAILS.

THE SEAL THAT ORIGINALLY APPEARED ON THIS DOCUMENT WAS AUTHORIZED BY Kevin R. Johnson

TEXAS NO. 93882, EXPIRATION DATE 2/7/11

NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

FREES AND NICHOLS

1701 N. Market Street, Suite 500, LB 51

Dallas, TX 75202-2001

Fax - (214) 217-2201

Web - www.freese.com

CITY OF ROCKWALL, TEXAS

AIRPORT ROAD RECONSTRUCTION

CIVIL

GRADING PLAN

AIRPORT ROAD AND FM 549

NO. ISSUE

DATE

BY

DESIGNED

DRAWN

REVIEWED

CHECKED

FILE NAME

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05/15/12

KRU

cv-trt-pl-grad02.sht

SEQ.

27 OF 79

GR-2

27 OF 79

PREPARED ON: 11/18/2013

PREPARED BY: Kevin R. Johnson

PROJECT NO. 03882

PROJECT NAME: AIRPORT ROAD RECONSTRUCTION

PROJECT LOCATION: AIRPORT ROAD AND FM 549

PROJECT DESCRIPTION: GRADING PLAN

PROJECT STATUS: IN PROGRESS

PROJECT CONTACT: Kevin R. Johnson

PROJECT PHONE: (214) 217-2201

PROJECT FAX: (214) 217-2201

PROJECT EMAIL: kjohnson@freese.com

PROJECT WEBSITE: www.freese.com

THE SEAL THAT ORIGINALLY APPEARED ON THIS DOCUMENT WAS AUTHORIZED BY Kevin R. Johnson

TEXAS NO. 93882, EXPIRATION DATE 2/7/11

NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

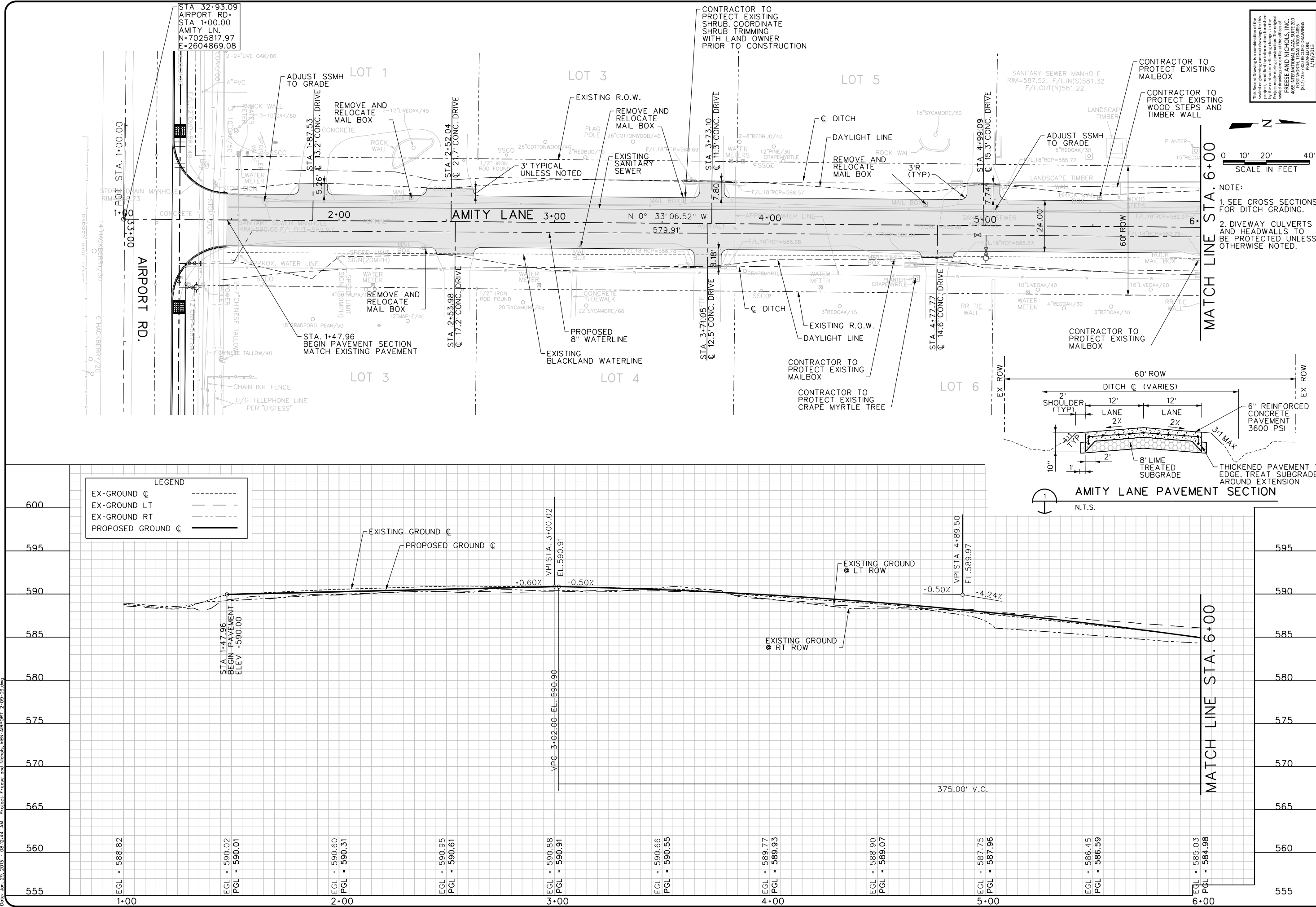
FREES AND NICHOLS, INC.

4055 INTERNATIONAL PLAZA, SUITE 200

DALLAS, TEXAS 75244

(817) 735-7300

PREPARED ON: 11/18/2013



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

FRESE AND NICHOLS, INC.
4055 INTERNATIONAL PLAZA, SUITE 200
FORT WORTH, TEXAS 76109-4895
(817) 735-7300 RECORD DRAWINGS
PREPARED ON: 1/18/2013

FREESE
NICHOLS
901
17101 N. Market Street, Suite 500, LB 51
Dallas, TX 75202-2001
Phone (214) 271-2200

Freese and Nichols, Inc. Texas Board of Professional
Engineers Reg. No. 2144

AIRPORT ROAD RECONSTRUCTION

CIVIL

AMITY LANE
BEGIN TO STA 6+00

NO. ISSUE	BY	DATE	F&N JOB NO.
			ROK08461
		DATE	05/15/12
		DESIGNED	KRJ
		DRAWN	SLI
		REVISION	
		CHECKED	

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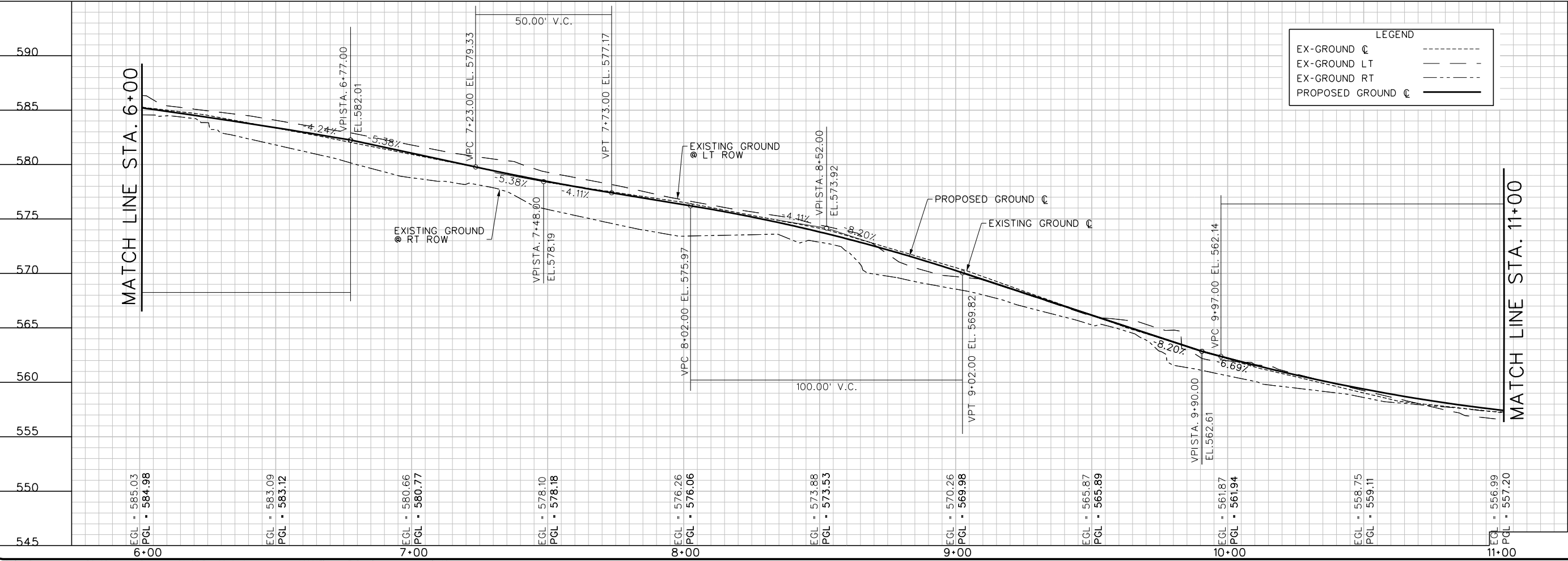
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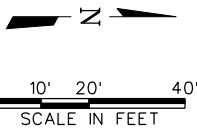
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cv-trt-pl-props01.dgn



MATCH LINE STA. 6+00

MATCH LINE STA. 11+00

- NOTE:
1. SEE CROSS SECTIONS FOR DITCH GRADING.
 2. DIVEWAY CULVERTS AND HEADWALLS TO BE PROTECTED UNLESS OTHERWISE NOTED.
 3. CONTRACTOR TO PROTECT FLOWERED BERM FROM STA 6+50 TO STA 7+75



This Record Drawing is a combination of the original design and field data furnished by the contractor reflecting changes in the project. It is the responsibility of the contractor to verify all field data and to ensure that all field drawings are on file at the office of FREESE AND NICHOLS, INC. 4055 INTERNATIONAL PLAZA, SUITE 200 DALLAS, TEXAS 75244-2000 (817) 757-2500 RECORD DRAWINGS PREPARED ON: 3/18/2013

CITY OF ROCKWALL, TEXAS
AIRPORT ROAD RECONSTRUCTION

CIVIL
AMITY LANE

STA 6+00 TO STA 11+00

THIS DRAWING ORIGINALLY APPEARED ON THIS DOCUMENT WAS AUTHORIZED BY FREESE AND NICHOLS, INC. ON DATE: 2/7/11. ALTERATION ON A SEALED DOCUMENT WITHOUT PROPER OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

FREES AND NICHOLS
1701 N. Market Street, Suite 500, LB 51
Dallas, TX 75202-2001
Phone - (214) 217-2200
Fax - (214) 217-2201
Web - www.freese.com

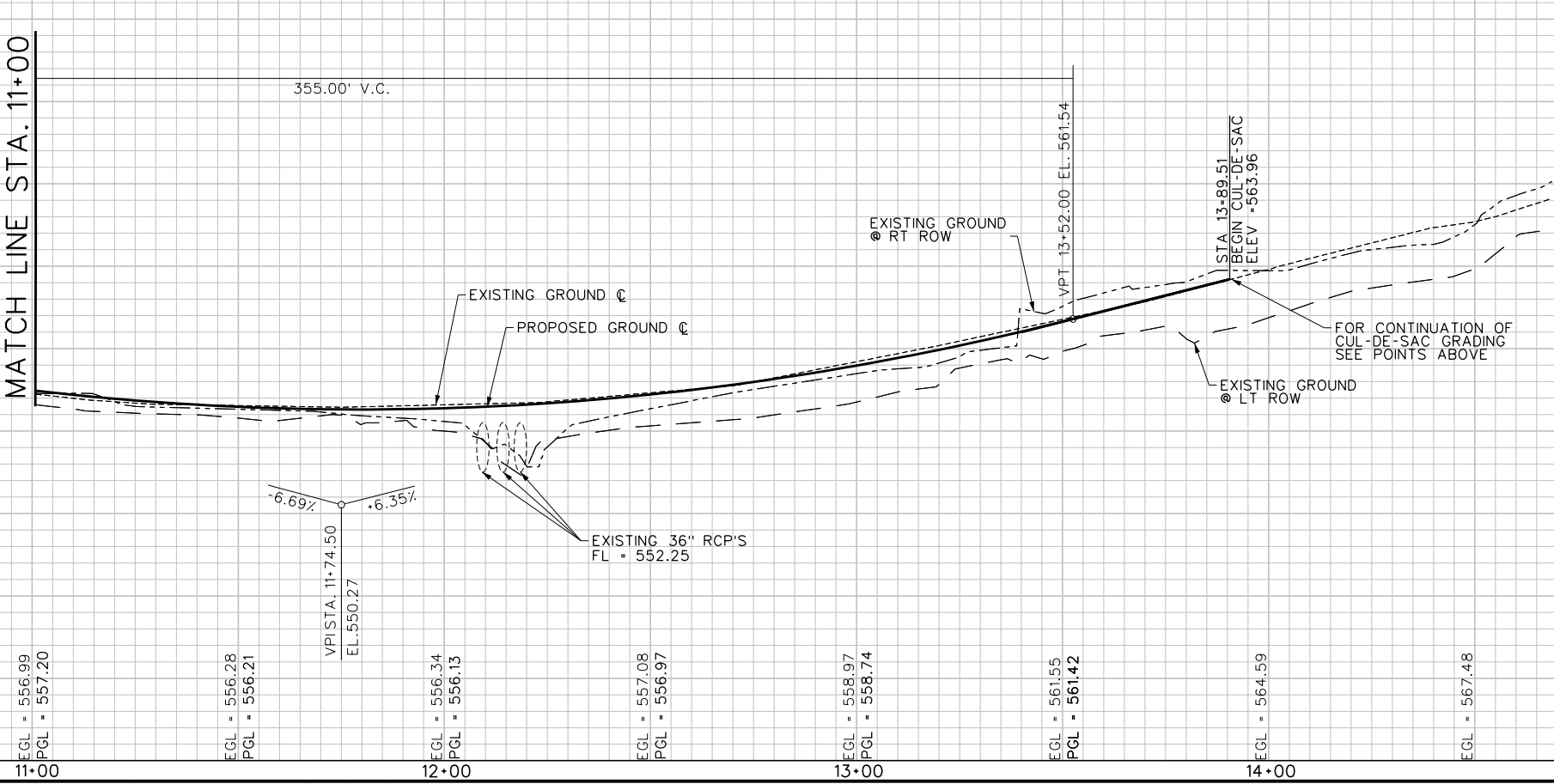
Freese and Nichols, Inc. Texas Board of Professional Engineers Reg. No. 2144

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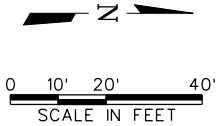
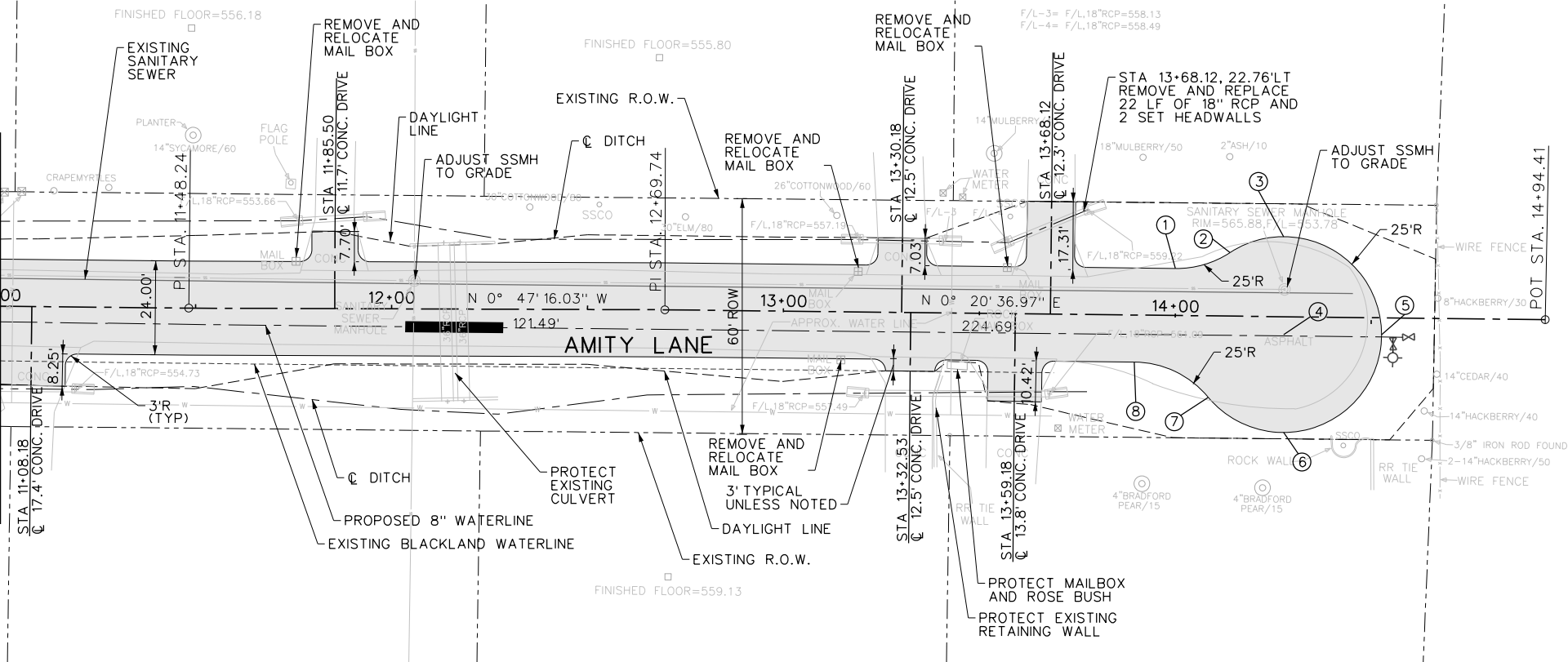
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MATCH LINE STA. 11+00



LEGEND	
EX-GROUND	---
EX-GROUND LT	---
EX-GROUND RT	---
PROPOSED GROUND	---

MATCH LINE STA. 11+00



NOTE:
1. SEE CROSS SECTIONS FOR DITCH GRADING.
2. DIVEWAY CULVERTS AND HEADWALLS TO BE PROTECTED UNLESS OTHERWISE NOTED.

POINT TABLE

NO.	STATION	OFFSET	DESCRIPTION	ELEVATION
1	13+99.90	12.00' LT	25'R PC	564.22
2	14+13.80	16.21' LT	25'R PRC	564.86
3	14+27.23	21.83' LT	TANGENT	565.50
4	14+27.73	3.15' RT	25'R CENTER	566.35
5	14+52.73	2.65' RT	TANGENT	566.85
6	14+28.23	28.15' RT	TANGENT	565.95
7	14+08.67	20.78' RT	25'R PRC	564.86
8	13+89.64	12.00' RT	25'R PT	563.77

This Record Drawing is a combination of the project, modified by information furnished by the contractor reflecting changes in the project. It is the responsibility of the contractor to verify that all information and sealed drawings are on file at the office of the engineer of record.
FREASE AND NICHOLS, INC.
4055 INTERNATIONAL PLAZA, SUITE 200
DALLAS, TEXAS 75247-2201
(817) 735-7300 RECORD DRAWINGS
PREPARED ON: 3/18/2013

CITY OF ROCKWALL, TEXAS
AIRPORT ROAD RECONSTRUCTION

CIVIL

AMITY LANE
STA 11+00 TO END

NO. ISSUE		BY	DATE	FN	JOB NO.
SHEET					ROK08461
SEQ.				DATE	DESIGNED
AM-3				05/15/12	KRU
29A OF 79				DRAWN	SLI
				REVISED	
				CHECKED	
				FILE NAME	cv-trt-pl-amity03.sht
				VERIFY SCALE Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.	

FREASE AND NICHOLS, INC.

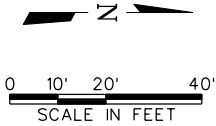
1701 N. Market Street, Suite 500, LB 51
Dallas, TX 75202-2001
Tel - (214) 217-2201
Fax - (214) 217-2201
Web - www.freese.com

THE SEAL APPEARING ON THIS DOCUMENT WAS
AUTHORIZED BY Kevin R. Johnson
ON 02/07/2011
AT DALLAS, TEXAS
NOTIFICATION OF THE RESPONSIBLE ENGINEER CAN
BE OBTAINED BY CONTACTING THE ENGINEER
OFFICE UNDER THE TEXAS ENGINEERING PRACTICE ACT.
Freese and Nichols, Inc. Texas Board of Professional
Engineers Reg. No. 2144

MicroStation V8 User: 02069Office: Dallas
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Date: Jan 29, 2013 - 08:23:53 AM Project: Freese and Nichols, MEN-AIRPORT 2-09-09.dwg
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5873

cv-trt-pl-align01.dgn
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MATCH LINE STA. 11+00



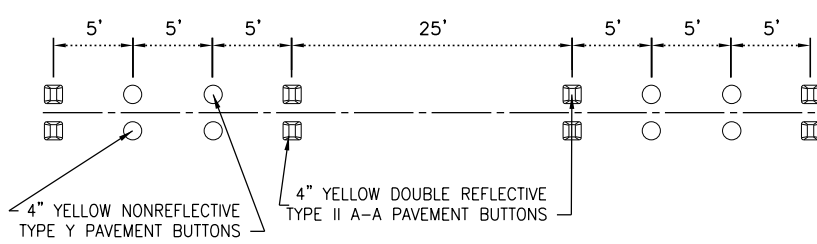
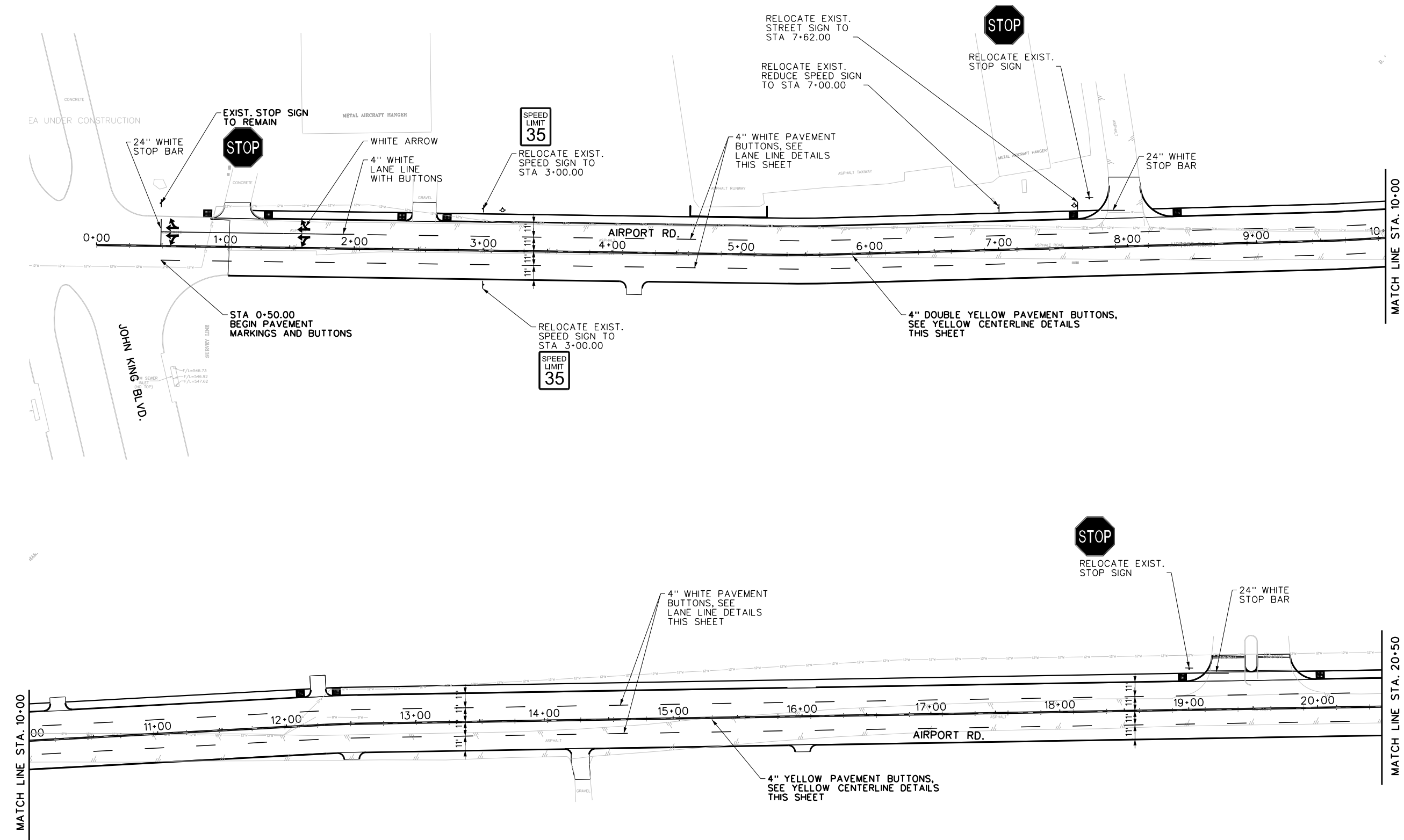
NOTES:

1. SEE DETAILS ON SHEET AM-2

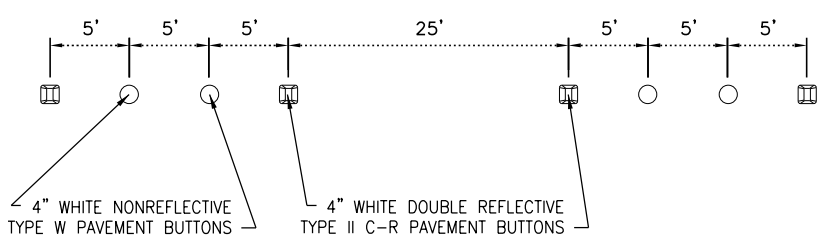
This Record Drawing is a combination of the original and revised drawings. The original drawings were prepared by the contractor reflecting changes in the project, modified by information furnished by the contractor reflecting changes in the project. The original drawings are on file at the office of
FREES AND NICHOLS, INC.
4055 INTERNATIONAL PLAZA, SUITE 200
DALLAS, TEXAS 75247-2201
(817) 735-7300 RECORD DRAWINGS
PREPARED ON:
3/15/2013

NO. ISSUE		BY	DATE	F&N JOB NO.	R0K08461	
				DATE	05/15/12	
				DESIGNED	KRU	
				DRAWN	SLI	
				REVISED		
				CHECKED		
VERIFY SCALE Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.		FILE NAME		cv-trt-pl-indian02.sht		
SHEET						
IN-2						
SEQ. 31 OF 79						
CITY OF ROCKWALL, TEXAS					FREES AND NICHOLS 1701 N. Market Street, Suite 500, LB 51 Dallas, TX 75202-2001 Phone - (214) 217-2200 Fax - (214) 217-2201 Web - www.freese.com	
AIRPORT ROAD RECONSTRUCTION					CIVIL	
INDIAN TRAIL					Freese and Nichols, Inc. Texas Board of Professional Engineers Reg. No. 2144	

MicroStation V8 User: 02069Office: Dallas
R0K08461 N:\F\Drawings\CV-trt-gn-pavm01.sht
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Date: Jan. 29, 2013 - 08:13:06 AM Project: Freese and Nichols, Inc.
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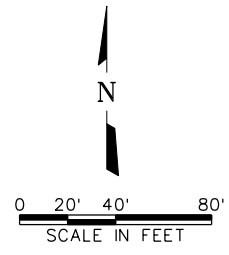
1 YELLOW CENTERLINE DETAILS
2 N.T.S.



2 LANE LINE DETAILS
~ N.T.S.

- NOTES:
1. THE PAVEMENT UPON WHICH THE LANE AND CHANNEL MARKERS, AND JIGGLE BAR TILE ARE TO BE PLACE SHALL BE PREPARED SUBJECT TO THE APPROVAL OF THE OWNER TO INSURE PROPER CLEANING OF PAVEMENT SURFACE
 2. TYPE II C-R BUTTONS SHALL BE PLACED WITH RED FACE TOWARD WRONG WAY TRAFFIC
 3. DOUBLE YELLOW BUTTONS TO BE USED FOR CENTER MARKERS AND WHITE BUTTONS FOR LANE DIVIDERS
 4. CENTER DOUBLE YELLOW BUTTONS OVER CONSTRUCTION JOINT

This Record Drawing is a combination of the project, modified by information furnished by the contractor reflecting changes in the project. The Engineer's seal and signature are on file at the office of the Engineer. PREPARED BY: FREESE AND NICHOLS, INC. 4055 INTERNATIONAL PLAZA, SUITE 200 DALLAS, TEXAS 75244-2000 (817) 757-2300 RECORD DRAWING PREPARED ON: 1/23/2013



FREES AND NICHOLS 1701 N. Market Street, Suite 500, LB 51 Dallas, TX 75202-2001 Tel - (214) 217-2200 Fax - (214) 217-2201 Web - www.freese.com				CITY OF ROCKWALL, TEXAS AIRPORT ROAD RECONSTRUCTION PAVEMENT MARKINGS AND SIGNAGE BEGIN TO STA 20+50			
NO. ISSUE	BY	DATE	FRN JOB NO.	DESIGNED	DRAWN	REVIEWED	
			ROK08461	KRU		SLI	
DATE 05/15/12			FILE NAME				
			cv-trt-gn-pavm01.sht				
VERIFY SCALE Bar is one inch on original drawing, if not one inch on this sheet, adjust scale.			PM-1				
SEQ.			32 OF 79				



THE SEAL THAT ORIGINALLY APPEARED ON THIS DOCUMENT WAS
AUTHORIZED BY Kevin R. Johnson ON DATE: 2/4/11
TEXAS NO: 93882 ALTERATION ON A SEALED DOCUMENT WITHOUT PROPER
NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN
OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.



Freese and Nichols, Inc. Texas Board of Professional Engineers Reg. No. 2144

CITY OF ROCKWALL, TEXAS
AIRPORT ROAD RECONSTRUCTION
CIVIL
PAVEMENT MARKING AND SIGNAGE
STA 20+50 TO STA 41+00

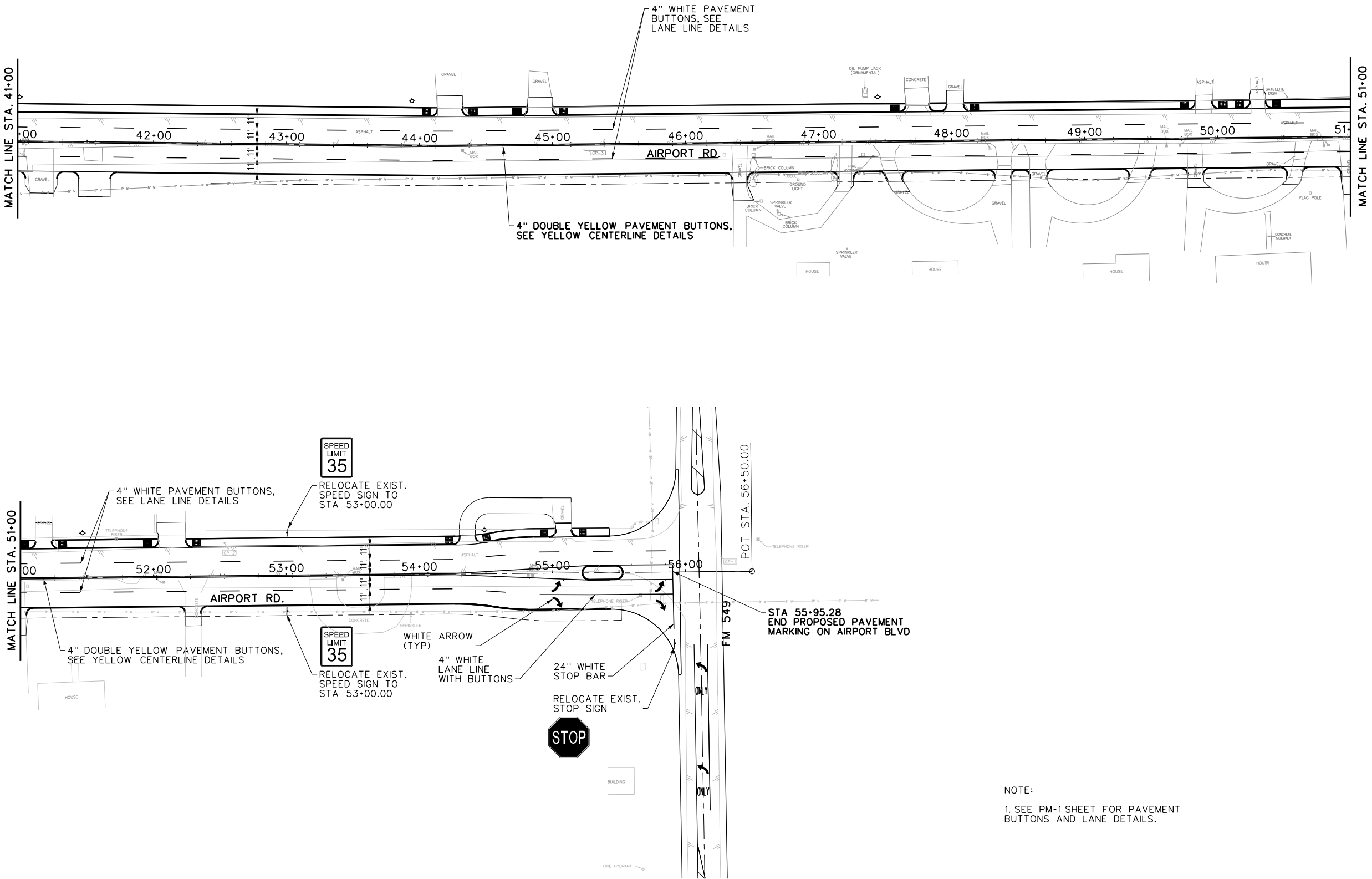
NO. ISSUE	BY	DATE	F&N JOB NO.
			ROK08461
		DATE	05/15/12
		DESIGNED	KRJ
		DRAWN	SLI
			REVISED
VERIFY SCALE Bar is one inch on original drawing, if not one inch on this sheet, adjust scale.			FILE NAME
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SHEET PM-2			
SEQ. 33 OF 79			

NOTE:

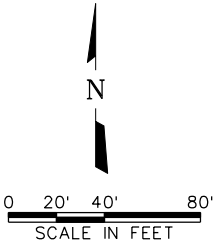
1. SEE PM-1 SHEET FOR PAVEMENT
BUTTONS AND LANE DETAILS.

MicroStation V8 User: 020690\Office: Dallas
R0K08461 N:\F\Drawings\cv-trt-gn-pavm03.sht
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Date: Jan. 29, 2013 - 08:13:09 AM Project: Freese and Nichols, Inc.
34Border.dgn
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cv-trt-pl-pavm01.dgn
cv-trt-pl-sign01.dgn
cv-trt-pl-topo.dwg

Office: Dallas ROK08461 Date: Jan. 29, 2013 - 08:13:09 AM User: 020690\Office: Dallas N:\F\Drawings\cv-trt-gn-pavm03.sht



NOTE:
1. SEE PM-1 SHEET FOR PAVEMENT
BUTTONS AND LANE DETAILS.

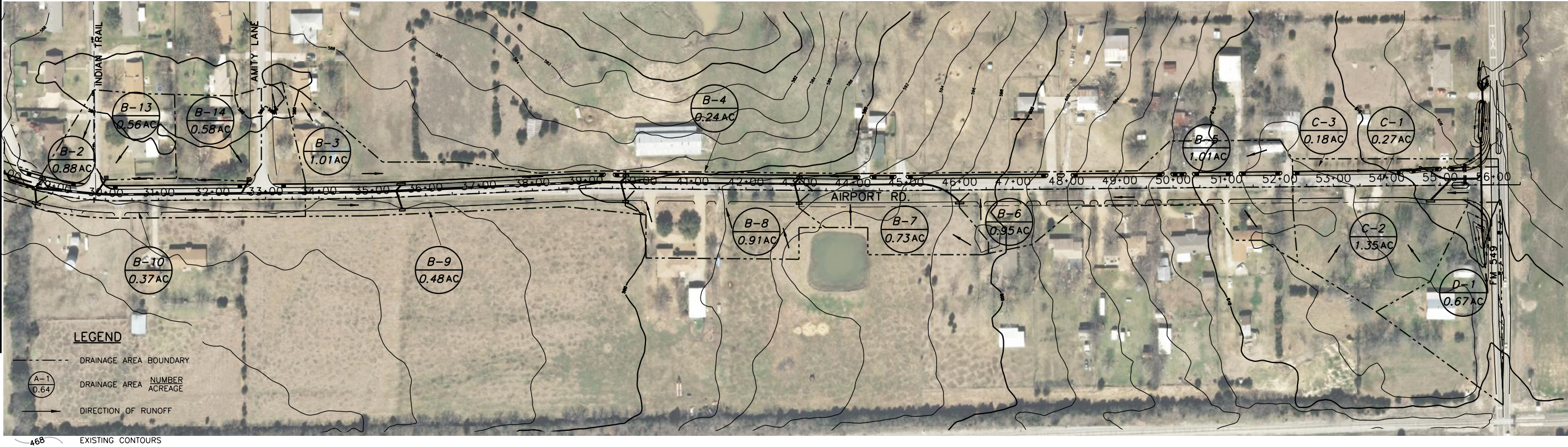


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CITY OF ROCKWALL, TEXAS		FREES AND NICHOLS 1701 N. Market Street, Suite 500, LB 51 Dallas, TX 75202-2001 Phone - (214) 217-2200 Fax - (214) 217-2201 Web - www.freese.com		THE SEAL THAT ORIGINALLY APPEARED ON THIS DOCUMENT WAS AUTHORIZED BY Kevin R. Johnson ON DATE: 2/4/11 PROJECT NO: 035822 NOTIFICATION OF THE RESPONSIBLE ENGINEER IS OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.	
AIRPORT ROAD RECONSTRUCTION		CIVIL		Freese and Nichols, Inc. Texas Board of Professional Engineers Reg. No. 2144	
PAVEMENT MARKINGS AND SIGNAGE		STA 41+00 TO END			
NO. ISSUE	BY	DATE	F&N JOB NO.	DESIGNED	DRAWN
			ROK08461	05/15/12	KRU
				SLI	
VERIFY SCALE Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.			FILE NAME	CHECKED	REVISED
			cv-trt-gn-pavm03.sht		
SHEET PM-3					
SEQ. 34 OF 79					

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Image.dwg

MATCH LINE STA. 28+00

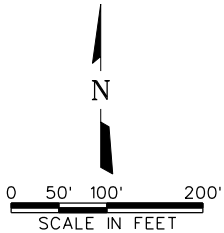


D.A. No.	D.A. Area	C	Time to Inlet	Intensity 100 yr	Q 100yr
	acres		min	in/hr	cfs
A-1	0.64	0.90	10	9.80	5.64
A-2	0.74	0.90	10	9.80	6.53
A-3	1.55	0.90	10	9.80	13.67
A-4	0.78	0.90	10	9.80	6.88
A-5	0.96	0.90	10	9.80	8.47
A-6	0.98	0.90	10	9.80	8.64
A-7	0.47	0.90	10	9.80	4.15
A-8	0.25	0.90	10	9.80	2.21

D.A. No.	D.A. Area	C	Time to Inlet	Intensity 100 yr	Q 100yr
	acres		min	in/hr	cfs
B-1	0.65	0.90	10	9.80	5.73
B-2	0.88	0.66	10	9.80	5.69
B-3	1.01	0.63	10	9.80	6.24
B-4	0.24	0.85	10	9.80	2.00
B-5	1.01	0.85	10	9.80	8.41
B-6	0.95	0.59	10	9.80	5.49
B-7	0.73	0.59	10	9.80	4.22
B-8	0.91	0.55	10	9.80	4.90
B-9	0.48	0.59	10	9.80	2.78
B-10	0.37	0.75	10	9.80	2.72
B-11	1.36	0.90	10	9.80	12.00
B-12	0.71	0.90	10	9.80	6.26
B-13	0.56	0.50	10	9.80	2.74
B-14	0.58	0.50	10	9.80	2.84

D.A. No.	D.A. Area	C	Time to Inlet	Intensity 100 yr	Q 100yr
	acres		min	in/hr	cfs
C-1	0.27	0.83	10	9.80	2.20
C-2	1.35	0.56	10	9.80	7.41
C-3	0.18	0.5	10	9.80	0.88
D-1	0.67	0.5	10	9.8	3.28

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
FREES AND NICHOLS, INC.
4055 INTERNATIONAL PLAZA, SUITE 200
FORT WORTH, TEXAS 76105-4805
(817) 735-7300 RECORD DRAWINGS
PREPARED ON:
1/18/2013



MATCH LINE STA. 28+00

CITY OF ROCKWALL, TEXAS
AIRPORT ROAD RECONSTRUCTION

CIVIL
DRAINAGE AREA MAP

NO. ISSUE	BY	DATE	FRN JOB NO.	ROK08461
			DATE	05/15/12
			DESIGNED	KRU
			DRAWN	SLI
			REVISED	
			CHECKED	
VERIFY SCALE Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.			FILE NAME	cv-trt-pl-damap.sht
SHEET DA-1				
SEQ. 35 OF 79				

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TEXAS NO: 93882 SEAL EXPIRATION DATE: 2/7/2017 WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT

FREES AND NICHOLS
1701 N. Market Street, Suite 500, LB 51
Dallas, TX 75202-2001
Phone - (214) 217-2200
Fax - (214) 217-2201
Web - www.freese.com

Freese and Nichols, Inc. Texas Board of Professional Engineers Reg. No. 2144

GUTTER FLOW / INLET COMPUTATIONS: Composite Gutter / Inlet On-grade: 100-year storm																												
INLET		D.A. No.	D.A. Area	C	Time to Inlet	Intensity	Q	CO	Q _T	n	S _L	S _X	a	W	S' _W	S _W	E _o	S _e	y	T (100YR)	L _R	L	E	Q _i	Q _T -Q _i	Bypass Target:	Remarks	
ID	LOCATION																											
			acres		min	in/hr	cfs	cfs	cfs	constant	ft/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	24	25	26	27	28	29	30	
A-2	10+65.36, 10.5' LT	A-2	0.74	0.90	10	9.80	6.53	0.00	6.53	0.015	0.0220	0.021	0.3333	2.00	0.17	0.19	0.39	0.09	0.25	11.97	22.87	10	0.64	4.21	2.32	A-1		
A-1	2+31.69, 10.5' LT	A-1	0.64	0.90	10	9.80	5.64	2.32	7.96	0.015	0.0085	0.021	0.3333	2.00	0.17	0.19	0.31	0.07	0.32	15.41	20.59	20	1.00	7.95	0.01	-		
A-3	15+21.72	A-3	1.55	0.90	10	9.80	13.67	0.00	13.67	0.015	0.0260	0.021	0.3333	2.00	0.17	0.19	0.31	0.07	0.32	15.30	36.04	15	0.62	8.48	5.19	A-4		
A-4	12+56.18, 34.5' RT	A-4	0.78	0.90	10	9.80	6.88	5.19	12.07	0.015	0.0220	0.021	0.3333	2.00	0.17	0.19	0.32	0.07	0.31	15.07	32.34	15	0.67	8.14	3.93	A-5		
A-5	10+65.36, 34.5' RT	A-5	0.96	0.90	10	9.80	8.47	3.93	12.40	0.015	0.0220	0.021	0.3333	2.00	0.17	0.19	0.31	0.07	0.32	15.22	32.83	15	0.67	8.27	4.13	A-6		
A-6	7+28.69, 34.5' RT	A-6	0.98	0.90	10	9.80	8.64	4.13	12.78	0.015	0.0200	0.021	0.3333	2.00	0.17	0.19	0.31	0.07	0.33	15.67	32.68	10	0.48	6.16	6.62	A-7		
A-7	5+54.56, 34.5' RT	A-7	0.47	0.90	10	9.80	4.15	6.62	10.76	0.015	0.0200	0.021	0.3333	2.00	0.17	0.19	0.32	0.07	0.31	14.70	29.67	10	0.52	5.63	5.14	A-8		
A-8	2+31.69, 34.5' RT	A-8	0.25	0.90	10	9.80	2.21	5.14	7.34	0.015	0.0085	0.021	0.3333	2.00	0.17	0.19	0.32	0.07	0.31	14.95	19.67	20	1.00	7.34	0.00	-		
B-2	6+91.99, 10.5' LT	B-2	0.88	0.66	10	9.80	5.69	0.00	5.69	0.015	0.0050	0.021	0.3333	2.00	0.17	0.19	0.32	0.07	0.31	15.01	15.10	10	0.86	4.89	0.81	B-1		
B-12	3+54.30	B-12	0.71	0.90	10	9.80	6.26	0.00	6.26	0.015	0.0150	0.021	0.3333	2.00	0.17	0.19	0.37	0.08	0.26	12.66	20.47	20	1.00	6.26	0.01	B-11		
B-10	6+91.99, 34.5' RT	B-10	0.37	0.75	10	9.80	2.72	0.00	2.72	0.015	0.0050	0.021	0.3333	2.00	0.17	0.19	0.40	0.09	0.24	11.38	9.95	15	1.00	2.72	0.00	B-11		
B-5	21+14.12, 10.5' LT	B-5	1.00	0.85	10	9.80	8.33	0.00	8.33	0.015	0.0150	0.021	0.3333	2.00	0.17	0.19	0.34	0.08	0.29	14.09	24.05	10	0.62	5.16	3.17	B-4		
B-4	17+89.12, 10.5' LT	B-4	0.24	0.85	10	9.80	2.00	3.17	5.16	0.015	0.0050	0.021	0.3333	2.00	0.17	0.19	0.33	0.08	0.30	14.47	14.29	10	0.89	4.57				

THE SEAL THAT ORIGINALLY APPEARED ON THIS DOCUMENT WAS
AUTHORIZED BY Kevin R. Johnson
TEXAS NO: 93382 ON DATE: 2/7/11
ALTERATION ON A SEALED DOCUMENT WITHOUT PROPER
NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN
OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

Freese and Nichols, Inc. Texas Board of Professional
Engineers Reg. No. 2144

Freese and Nichols, Inc. Texas Board of Professional
Engineers Reg. No. 2144

GUTTER FLOW / INLET COMPUTATIONS: Composite Inlet/In-Sag: 100-year storm																														
INLET		D.A. No.	D.A. Area	C	Time to Inlet	Intensity	Q	CO	Q _T	n	S _L	S _X	a	W	S' _w	S _w	E _o	S _e	y	Weir Check	T (100YR)	L _R	L	E	Q _i	Q _T -Q _i	Bypass Target:	Remarks		
ID	LOCATION																													
			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	29	30	31
B-1	1+43.36, 10.5' LT	B-1	0.65	0.90	10	9.80	5.73	0.81	6.54	0.015	0.0050	0.021	0.33	2.00	0.17	0.19	0.36	0.08	0.28	0.70	13.16	-----	15	1.00	6.54	0.00	sag			
B-11	1+43.36, 34.5' RT	B-11	1.36	0.90	10	9.80	12.00	0.01	12.00	0.015	0.0050	0.021	0.33	2.00	0.17	0.19	0.30	0.07	0.34	0.70	16.29	-----	20	1.00	12.00	0.00	sag			
B-3	13+68.44, 10.5' LT	B-3	1.01	0.66	10	9.80	6.53	0.59	7.13	0.015	0.0050	0.021	0.33	2.00	0.17	0.19	0.34	0.08	0.29	0.70	13.94	-----	15	1.00	7.13	0.00	sag			
B-9	13+68.44, 34.5' RT	B-9	0.48	0.77	10	9.80	3.62	0.94	4.57	0.015	0.0050	0.021	0.33	2.00	0.17	0.19	0.35	0.08	0.29	0.70	13.58	-----	10	1.00	4.57	0.00	sag			
B-13	8+09.67, 26.5' LT	B-13	0.56	0.50	10	9.80	2.74	0.00	2.74	-	-	-	-	-	-	-	-	-	0.24	0.70	-	-	8	1.00	2.74	0.00	2' Drop Inlet			
B-14	10+88.87, 26.5' LT	B-14	0.58	0.50	10	9.80	2.84	0.00	2.84	-	-	-	-	-	-	-	-	-	0.24	0.70	-	-	8	1.00	2.84	0.00	2' Drop Inlet			
C-1	2+09.89	C-1	0.27	0.83	10	9.80	2.20	0.00	2.20	0.015	0.0050	0.021	0.33	2.00	0.17	0.19	0.52	0.11	0.17	0.70	8.33	-----	10	1.00	2.20	0.00	sag			
C-2	1+88.70, 46.5' RT	C-2	1.35	0.56	10	9.80	7.41	0.00	7.41	0.015	0.0050	0.021	0.33	2.00	0.17	0.19	0.33	0.08	0.30	0.70	14.30	-----	15	1.00	7.41	0.00	sag			
C-3	2+09.89, 8.27' LT	C-3	0.18	0.5	10	9.80	0.88	0.00	0.88	-	-	-	-	-	-	-	-	-	0.28	0.70	-	-	2	1.00	0.88	0.00	2' Drop Inlet			

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34Border.dgn

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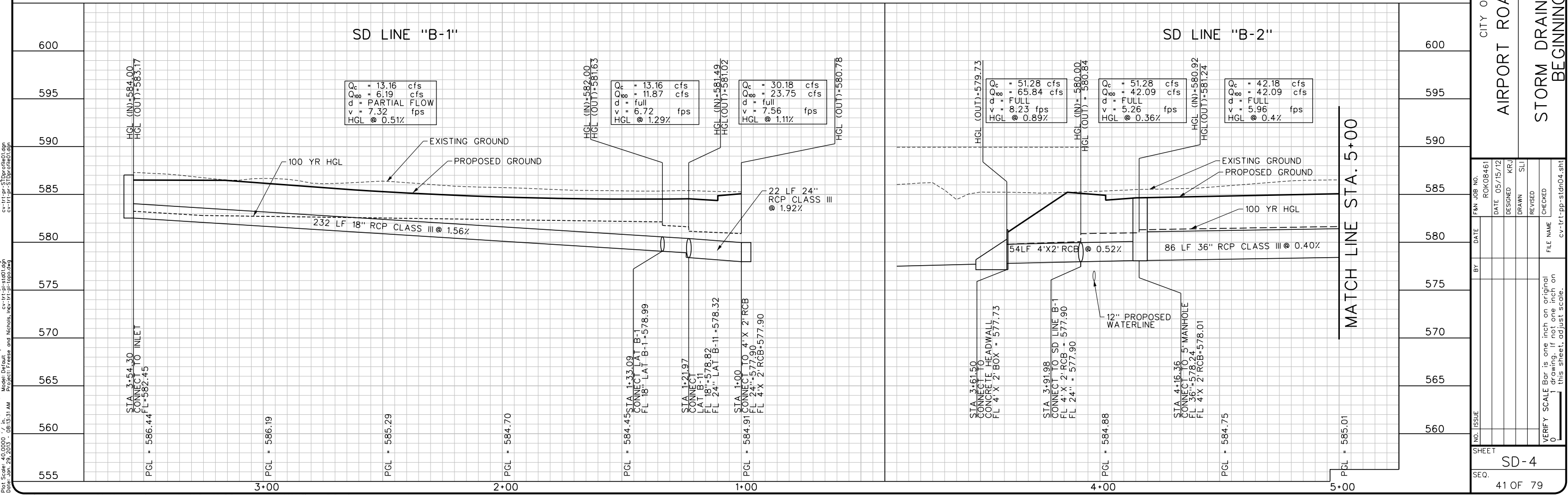
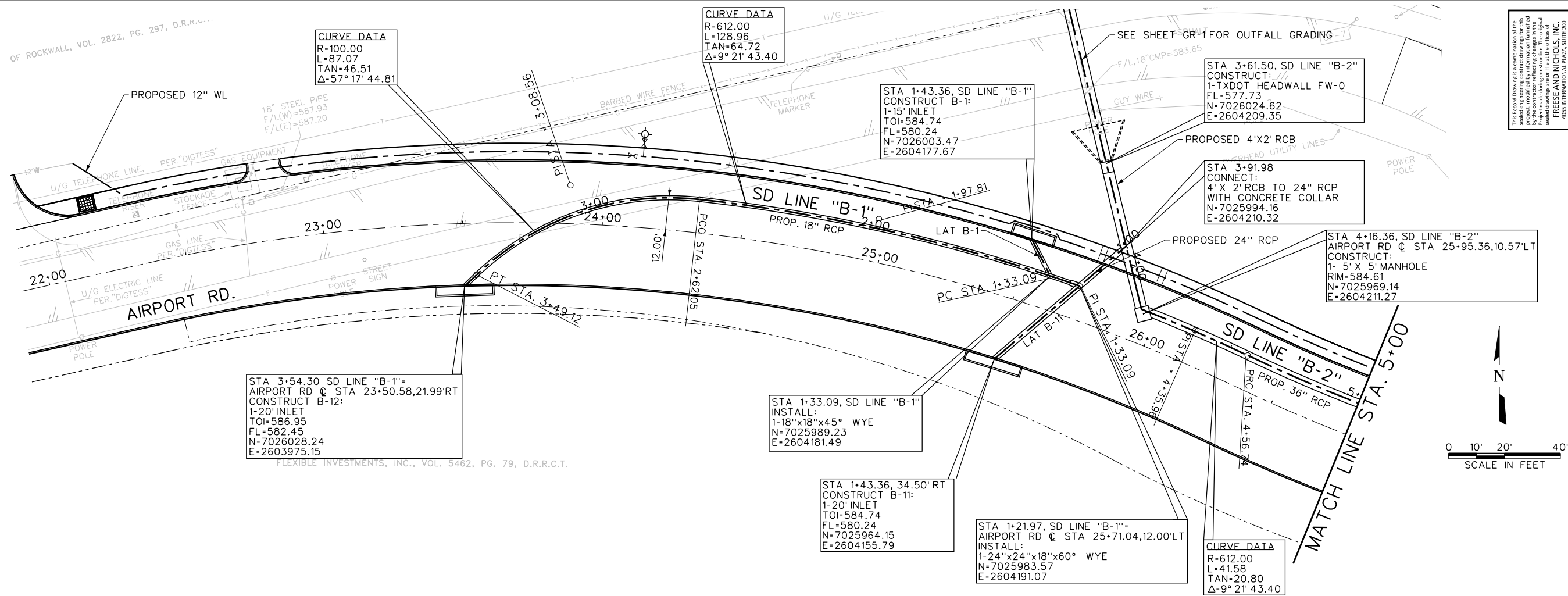
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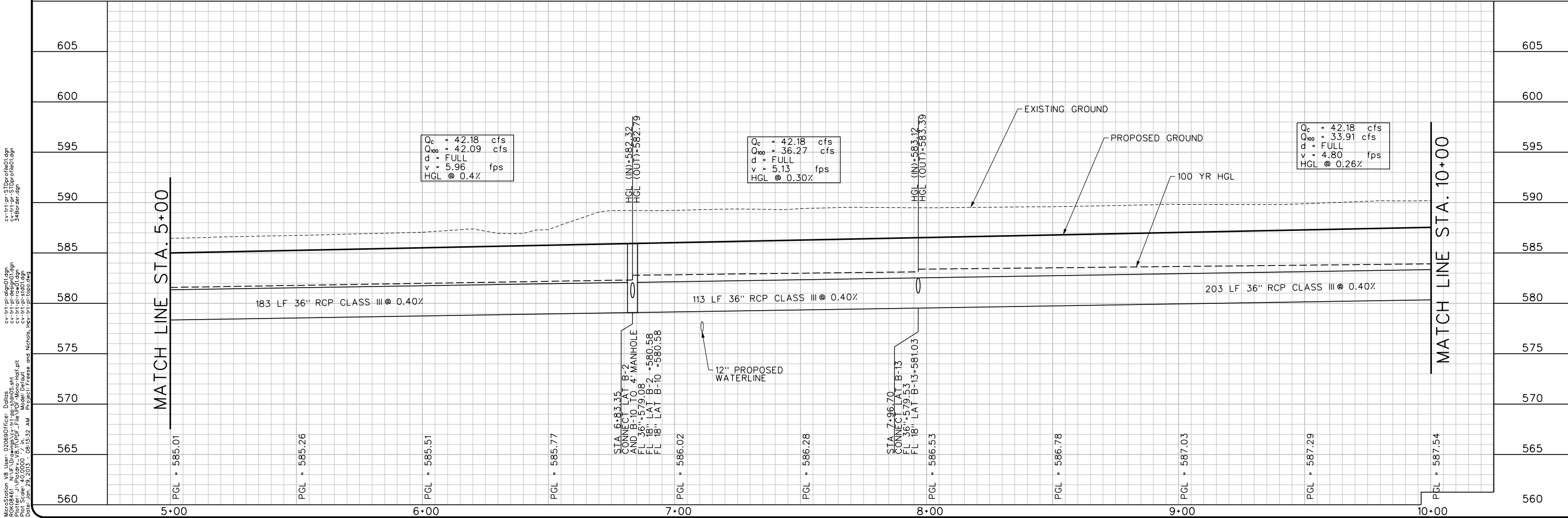
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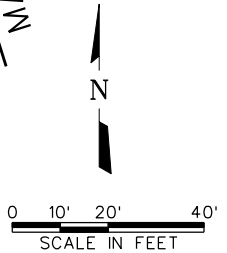
Manhole or Inlet		Distance between Manhole or Inlet	Drainage Area		Coefficient of Runoff "K _C "	Incremental "K _{CA} "	Accumulated "K _{CA} "	Time of Concentration			Design Frequency	Intensity	Total "Q"	By Pass	Discharge "Q"	Selected Size of Pipe	Selected Size of Box		Flow depth	Flow Area	Slope of Frictional Gradient S _f	Head Loss at Change in Section						Hydraulic Gradient Elevation		HGL at Design Point	Notes		
From	To		Increment Area					Total Area	V ₁	V ₂							V ₁ ²	V ₂ ²				Description of Junction	K _f	H _f	Upstream	Downstream							
Design Point	Design Point		No	Area																													
		ft		acres	acres			min	min	min	years	in/hr	cfs	cfs	cfs	inches	ft	ft	ft	ft ²	ft/ft	ft/sec	ft/sec	ft	ft		constant	ft	ft msl	ft msl	ft msl		
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	29	30	31	32	33	36
SD LINE "A"																																	
15+14.35	12+21.69	300.00	A-3	1.55	1.55	0.90	1.40	1.40	10.00	0.51	10.51	100	9.70	13.63	5.19	8.34	18			1.5	1.77	0.0190	0.00	9.82	1.30	0.00	Inlet	1.25	1.50	577.53	571.83	579.02	Partial Flow S _f and V ₂ manually calculated
12+21.69	10+56.02	166.00	A-4	0.78	2.33	0.90	0.70	2.10	10.51	0.30	10.81	100	9.70	20.34	3.93	16.41	18			1.5	1.77	0.0247	9.82	9.29	1.14	1.50	45°Wye	0.40	0.74	571.09	566.99	571.83	
10+56.02	6+95.85	361.00	A-2 & 1-5	1.70	4.03	0.90	1.53	3.63	10.81	0.67	11.48	100	9.50	34.46	6.45	28.01	24			2	3.14	0.0155	9.29	8.91	1.13	1.34	MH	0.30	0.83	566.16	560.57	566.99	
6+95.85	5+20.06	176.00	A-6	0.98	5.01	0.90	0.88	4.51	11.48	0.27	11.75	100	9.50	42.84	8.94	33.90	24			2	3.14	0.0227	8.91	10.79	1.11	1.23	45°Wye	0.20	1.56	559.01	555.03	560.57	
5+20.06	2+22.76	297.00	A-7	0.47	5.48	0.90	0.42	4.93	11.75	0.62	12.37	100	9.45	46.61	7.45	39.15	30			2.5	4.91	0.0092	10.79	7.98	0.19	1.81	45°Wye	0.20	0.63	554.40	551.67	555.03	
2+22.76	1+00.00	123.00	A-1 & 1-8	0.89	6.37	0.90	0.80	5.73	12.37	0.27	12.64	100	9.40	53.89	0.01	53.88	36			3	7.07	0.0066	7.98	7.62	0.10	0.99	MH	0.20	0.70	550.97	551.67	551.67	
SD LINE "B-1"																																	
3+54.30	1+33.09	221.00	B-12	0.71	0.71	0.90	0.64	0.64	10.00	0.50	10.50	100	9.70	6.21	0.01	6.19	18			1.5	1.77	0.0051	0.00	7.32	0.13	0.00	Inlet	1.25	0.83	583.18	582.06	584.01	Partial Flow S _f and V ₁ manually calculated
1+33.09	1+21.97	11.00	B-1	0.65	1.36	0.90	0.59	1.22	10.50	0.03	10.53	100	9.70	11.87		11.87	18			1.5	1.77	0.0129	7.32	6.72	0.10	0.83	45°Wye	0.40	0.37	581.69	581.55	582.06	
1+21.97	1+00	22.00	B-11	1.36	2.72	0.90	1.22	2.45	10.53	0.05	10.58	100	9.70	23.75		23.75	24			2	3.14	0.0111	6.72	7.56	0.19	0.70	60°Wye	0.60	0.47	581.08	581.55	581.55	
SD LINE B-2																																	
24+23.87	21+05.89	318.00	B-6	0.95	0.95	0.59	0.56	0.56	10.00	0.70	10.70	100	9.70	5.41	0.67	4.77	18			1.5	1.77	0.0185	0.00	7.62	0.10	0.00	Inlet	1.25	0.90	593.54	587.65	594.44	Partial Flow S _f and V ₂ manually calculated
21+05.89	17+80.58	325.00	B-5 & 3-7	1.73	2.68	0.74	1.28	1.84	10.70	0.91	11.60	100	9.45	17.39	4.27	13.12	24			2	3.14	0.0040	5.17	5.98	0.16	0.42	MH	0.40	0.39	587.27	585.97	587.65	Partial Flow S _f and V ₁ manually calculated
17+80.58	13+59.72	421.00	B-4 & 3-8	1.15	3.83	0.61	0.70	2.54	11.60	2.32	13.93	100	9.00	22.88	1.54	21.34	36			3	7.07	0.0010	5.98	3.02	0.4	0.56	MH	0.30	0.25	585.72	585.28	585.97	Partial Flow V ₁ and H _J manually calculated
13+59.72	10+68.89	291.00	B-3 & 3-9	1.49	5.32	0.70	1.04	3.59	13.93	1.07	14.99	100	8.95	32.09		32.09	36			3	7.07	0.0023	3.02	4.54	0.12	0.14	MH	0.30	0.28	585.00	584.33	585.28	
10+68.89	7+96.70	272.00	B-11	0.58	5.90	0.50	0.29	3.88	14.99	0.95	15.94	100	8.75	33.91		33.91	36			3	7.07	0.0026	4.54	4.80	0.16	0.32	60°Wye	0.40	0.23	584.10	583.39	584.33	
7+96.70	6+83.35	113.00	B-11	0.56	6.46	0.50	0.28	4.16	15.94	0.37	16.31	100	8.73	36.27		36.27	36			3	7.07	0.0030	4.80	5.13	0.11	0.36	60°Wye	0.40	0.27	583.12	582.79	583.39	
6+83.35	4+14.20	269.00	B-2 & 1-10	1.25	7.71	0.69	0.86	5.02	16.31	0.75	17.06	100	8.55	42.50	0.81	42.09	36			3	7.07	0.0040	5.13	5.96	0.15	0.41	MH	0.20	0.47	582.32	581.24	582.79	
4+14.20	3+91.98	23.00	Junction	0.00	0.00	0.90	0.00	5.02	17.06	0.07	17.13	100	8.40	42.09		42.09		4	2	2	8	0.0036	5.96	5.26	0.13	0.55	MH	0.20	0.32	580.92	580.84	581.24	
3+91.98	3+61.50	30.50	SD-B-1	0.00	0.00	0.90	0.00	5.02	17.13	0.06	17.19	100	8.40	42.09		65.84		4	2	2	8	0.0089	5.26	8.23	1.15	0.43	60°Wye	0.50	0.84	580.00	580.84	580.84	Q total includes Q from SD-LINE B-1 Starting HGL from top of outfall pipe
SD LINE "C"																																	
2+09.98	1+66.20	43.00	C-1	0.45	0.45	0.70	0.32	0.32	10.00	0.41	10.41	100	9.70	3.04	0.00	3.06	18			1.5	1.77	0.0009	0.00	1.73	0.15	0.00	Inlet	1.25	0.05	608.32	608.28	608.36	Q total includes Q from C-3 Inlet
1+66.20	1+17.92	48.00	C-2	1.35	1.80	0.56	0.76	1.07	10.41	0.24	10.66	100	9.70	10.39	0.00	10.39	24			2	3.14	0.0021	1.73	3.31	0.7	0.05	45°Wye	0.40	0.15	608.13	608.03	608.28	
1+17.92	1+00.00	11.00	BEND	0.00	1.80	0.00	0.00	1.07	10.66	0.06	10.71	100	9.69	10.39	0.00	10.38	24			2	3.14	0.0021	3.31	3.30	0.7	0.17	45°Bend	0.50	0.08	607.94	607.92	608.03	Starting HGL from culvert headwater
LATERALS																																	
Lat (A-1)		15.00	A-1	0.64	0.64	0.90	0.58	0.58	10.00	0.06	10.06	100	9.80	7.94	0.01	7.95	18			1.5	1.77	0.0058	0.00	4.50	0.11	0.00	Inlet	1.25	0.31	551.76	551.67	552.07	
Lat (A-2)		15.00	A-2	0.74	0.74	0.90	0.67	0.67	10.00	0.02	10.02	100	9.80	6.51	2.32	4.21	18			1.5	1.77	0.0016	0.00	12.88	2.18	0.00	Inlet	1.25	2.58	567.01	566.99	569.59	Partial Flow V ₂ manually calculated
Lat (A-4)		49.00	A-4	0.78	0.78	0.90	0.70	0.70	10.00	0.18	10.18	100	9.80	12.07	3.93	8.14	18			1.5	1.77	0.0061	0.00	4.61	0.13	0.00	Inlet	1.25	0.33	572.12	571.83	572.45	
Lat (A-5)		36.00	A-5	0.96	0.96	0.90	0.86	0.86	10.00	0.05	10.05	100	9.80	12.40	4.13	8.27	18			1.5	1.77	0.0063	0.00	13.11	2.17	0.00	Inlet	1.25	2.67	567.22	566.99	569.88	Partial Flow V ₂ manually calculated
Lat (A-6)		49.00	A-6	0.98	0.98	0.90	0.88	0.88	10.00	0.06	10.06	100	9.80	12.78	6.62	6.16	18			1.5	1.77	0.0035	0.00	13.21	2.11	0.00	Inlet	1.25	2.71	560.74	560.57	563.45	Partial Flow V ₂ manually calculated
Lat (A-7)		49.00	A-7	0.47	0.47	0.90	0.42	0.42	10.00	0.07	10.07	100	9.80	10.75	5.14	5.63	18			1.5	1.77	0.0301	0.00	11.77	2.5	0.00	Inlet	1.25	2.15	556.50	555.03	558.65	
Lat (A-8)		36.00	A-8	0.25	0.25	0.90	0.23	0.23	10.00	0.14	10.14	100	9.80	7.34	0.00	7.34	18			1.5	1.77	0.0049	0.00	4.15	0.17	0.00	Inlet	1.25	0.27	551.85	551.67	552.12	
Lat (B-1)		15.00	B-1	0.65	0.65	0.90	0.59	0.59	10.00	0.07	10.07	100	9.80	5.71	0.00	6.54	18			1.5	1.77	0.0039	0.00	3.70	0.11	0.00	Inlet	1.25	0.21	582.12	582.06	582.33	
Lat (B-2)		15.00	B-2	0.88	0.88	0.66	0.58	0.58	10.00	0.02	10.02	100	9.80	5.61	0.81	4.89	18			1.5	1.77	0.0022	0.00	12.36	2.17	0.00	Inlet	1.25	2.37	582.82	582.79	585.19	Partial Flow V ₂ manually calculated
Lat (B-3)		15.00	B-3	1.01	1.01	0.66	0.67	0.67	10.00	0.06	10.06	100	9.80	6.51	0.00	7.13	18			1.5	1.77	0.0047	0.00	4.0									



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34border.dgn



This Record Drawing is a combination of the original drawing and any amendments made to the project, modified by information furnished by the contractor reflecting changes in the field. The original drawing is the master and the sealed drawings are on file at the office of FREESE AND NICHOLS, INC. 4055 INTERNATIONAL PLAZA, SUITE 200 DALLAS, TEXAS 75247-2201 (817) 735-7300 RECORD DRAWINGS PREPARED ON: 1/23/2013



CITY OF ROCKWALL, TEXAS

AIRPORT ROAD RECONSTRUCTION

CIVIL

STORM DRAIN PLAN AND PROFILE

STA 5+00 TO STA 10+00

NO. ISSUE

BY DATE

DESIGNED

DRAWN

REVISION

FILE NAME

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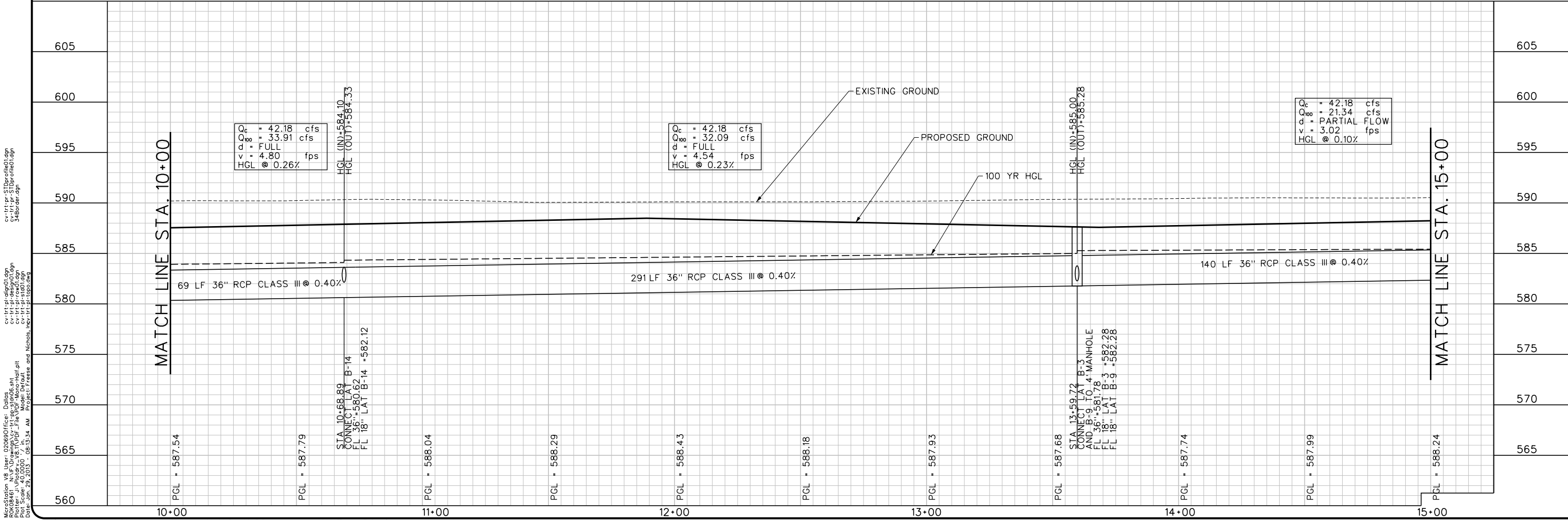
SD-5

42 OF 79

THE SEAL THAT ORIGINALLY APPEARED ON THIS DOCUMENT WAS AUTHORIZED BY Kevin R. Johnson TEXAS NO. 93882, SEAL NO. 2001-0001, EXPIRATION DATE 2/7/11. ANY CHANGES TO THIS SEAL OR THE SEAL ITSELF ARE THE RESPONSIBILITY OF THE ENGINEER. FREESE AND NICHOLS, INC. 4055 INTERNATIONAL PLAZA, SUITE 200 DALLAS, TEXAS 75247-2201 (817) 735-7300 RECORD DRAWINGS PREPARED ON: 1/23/2013

Freese and Nichols, Inc. Texas Board of Professional Engineers Reg. No. 2144

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cv-trt-pl-stdn06.dgn
cv-trt-pp-stdn06.dgn
34border.dgn



STA 10+82.92, 24.29' LT
CONSTRUCT B-14:
1-2' DROP INLET
TOI=588.25
FL=583.75
N=7025854.03
E=2604844.68

STA 10+82, 25' LT
CONNECT FRENCH DRAIN
TO DROP INLET

STA 13+59.72, SD LINE "B-2"
AIRPORT RD @ STA 35+46.28, 12.00' LT
CONSTRUCT:
1-4' X 4' MANHOLE
RIM=587.62
N=7025834.17
E=2605121.66

STA 13+68.44, 10.50' LT
CONSTRUCT B-3:
1-15' INLET
TOI=587.87
FL=583.37
N=7025845.06
E=2605129.87

STA 13+68.44, 34.50' RT
CONSTRUCT B-9:
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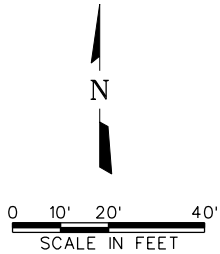
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REMAINDER TRACT
OUIDA RUTH SPRINGER
VOL. 75, PG. 59, D.R.R.C.T.

ROCKWALL LAKESIDE CHURCH ADDITION,
CAB. F, SLIDE 72, P.R.R.C.T.

LOT 2, BLOCK A

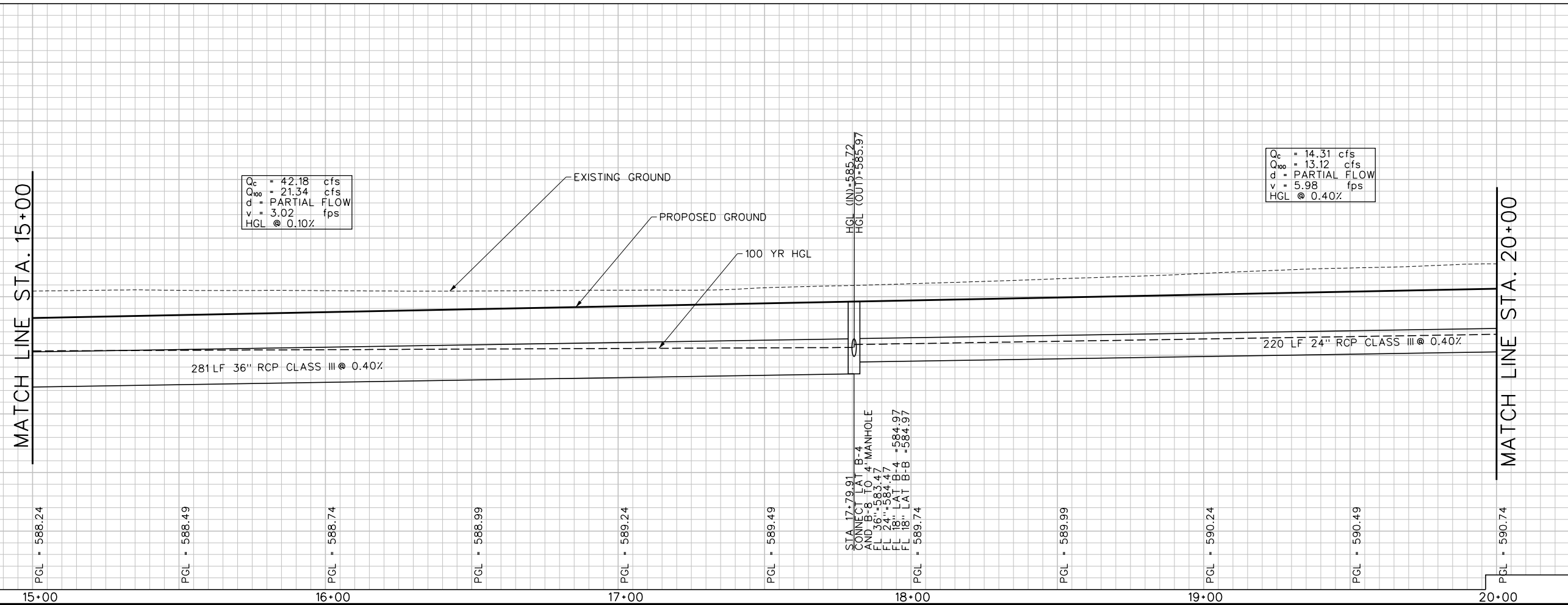
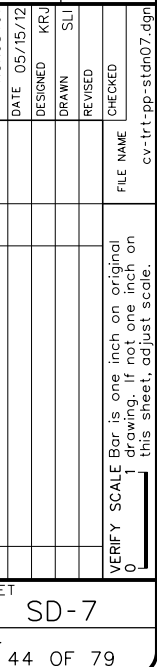
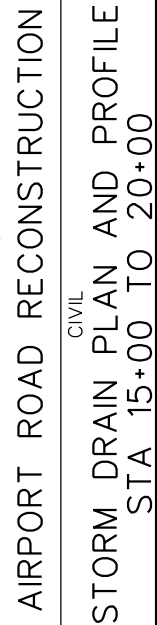
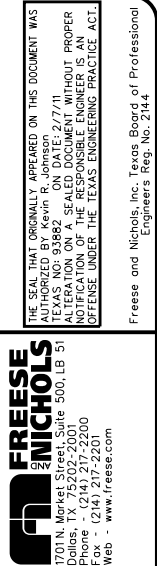
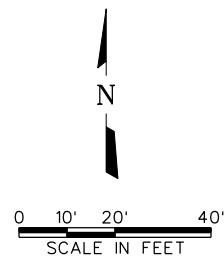
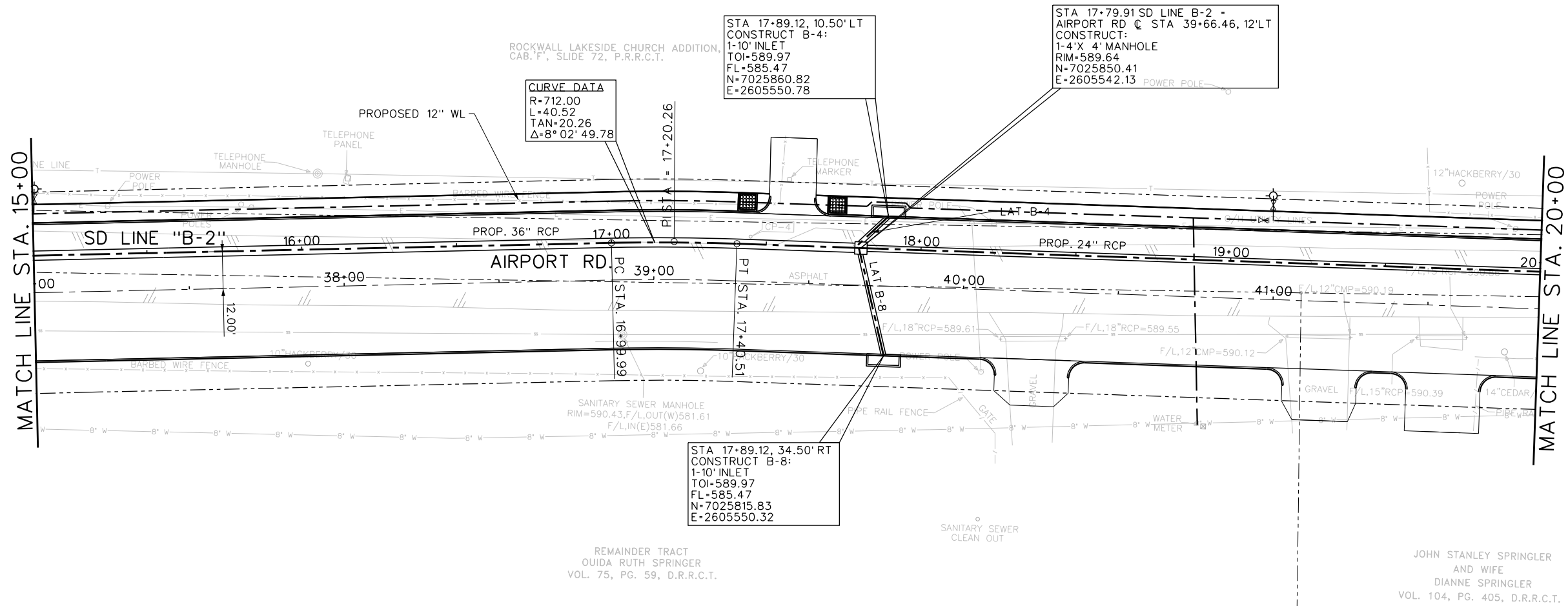
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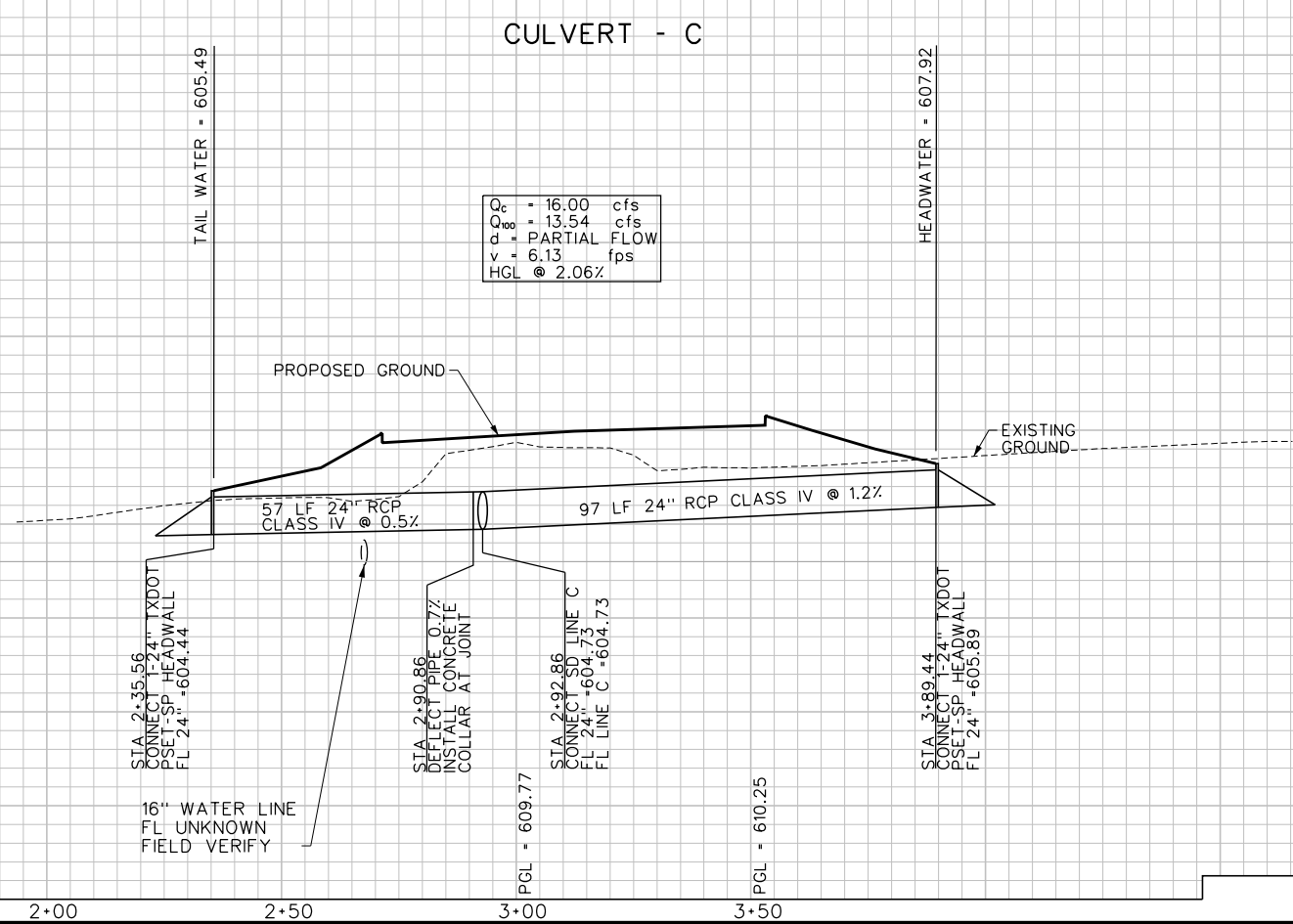
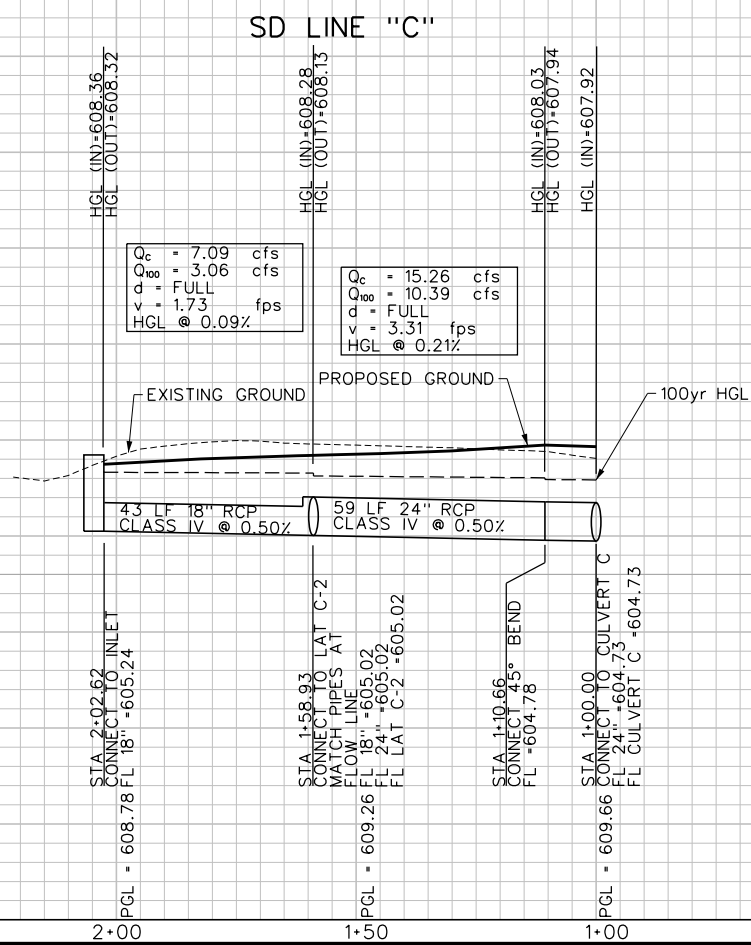
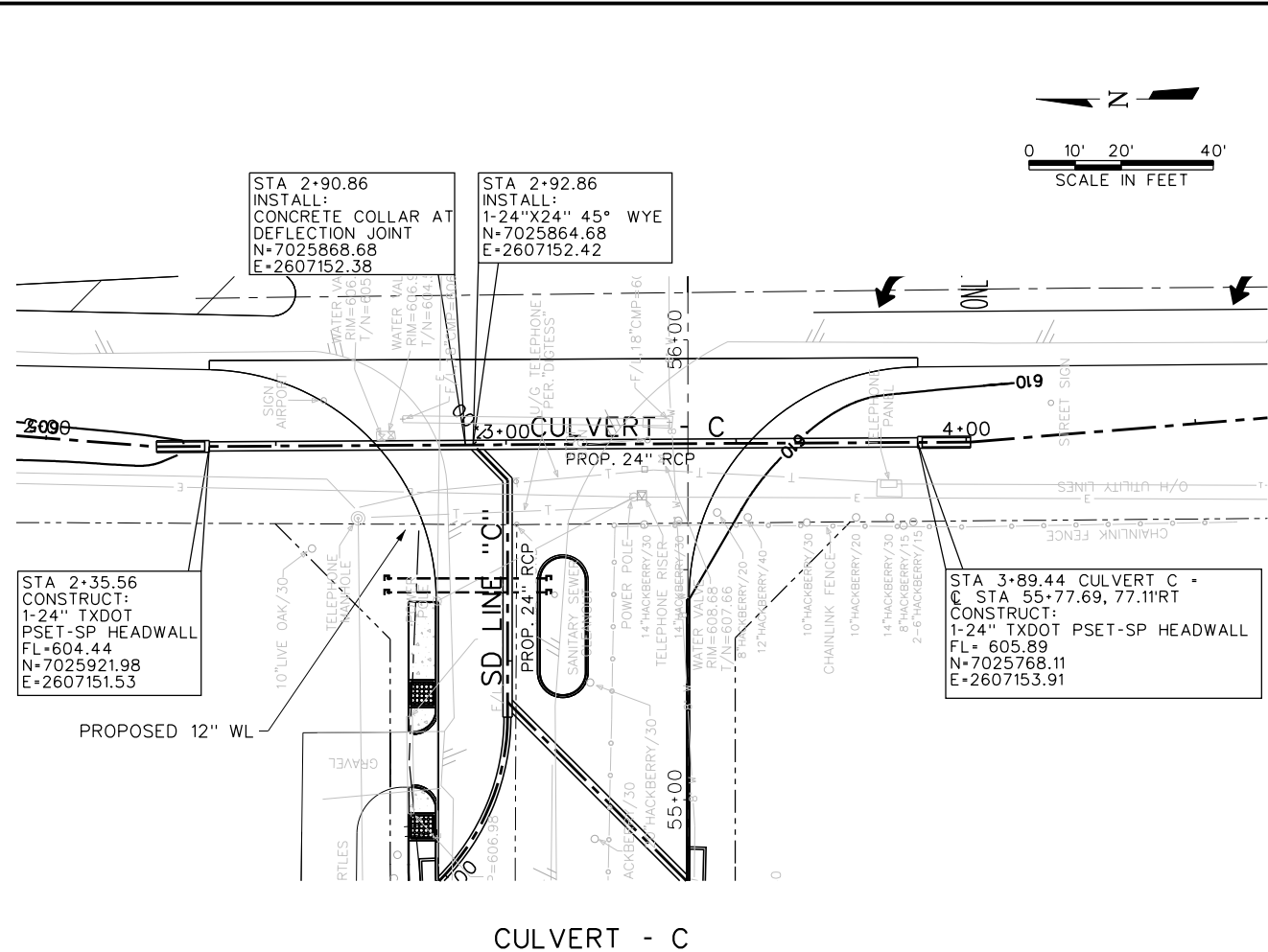
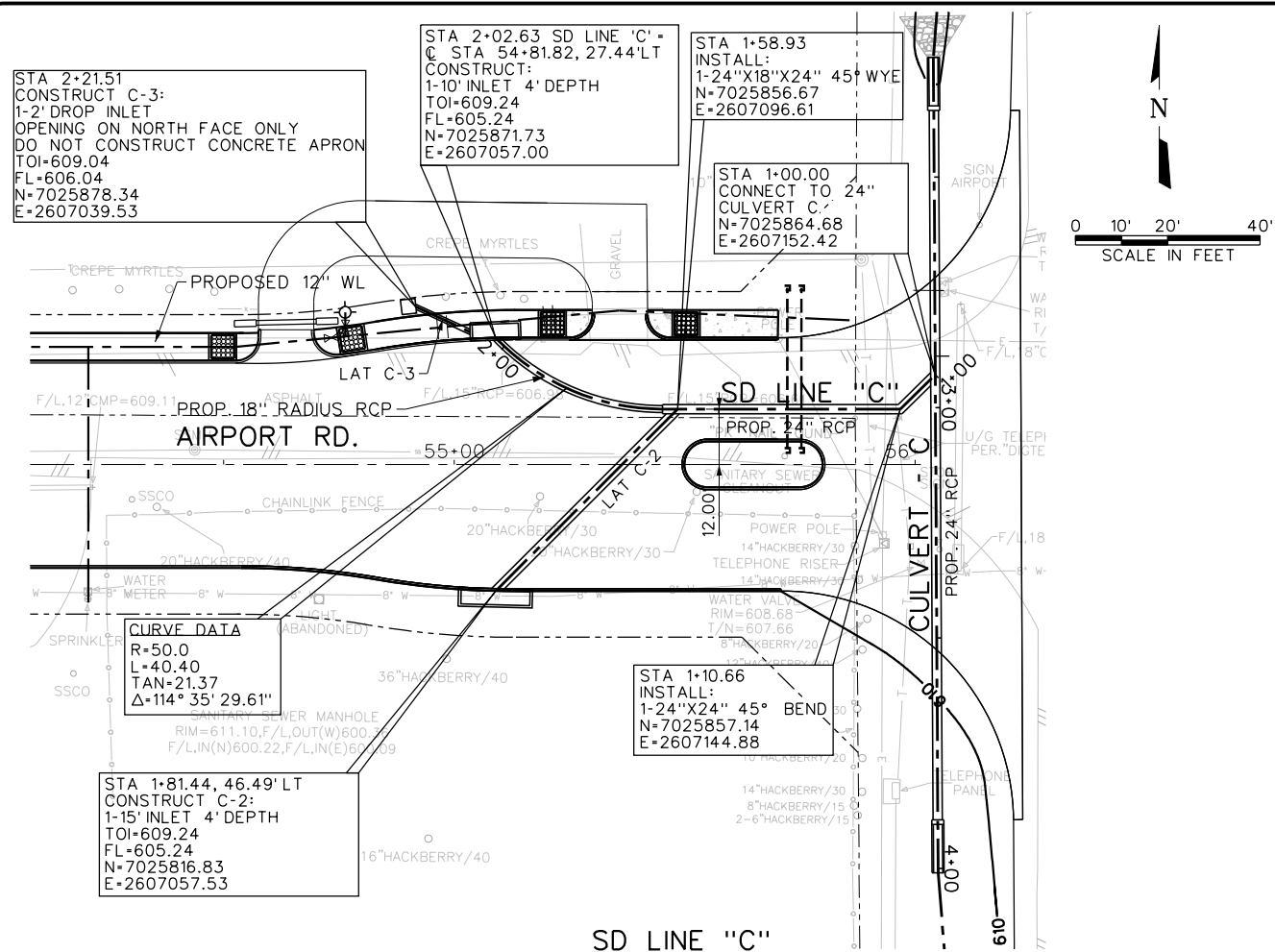


This Record Drawing is a combination of the project, modified by information furnished by the contractor reflecting changes in the project. The Engineer is not responsible for any errors or omissions in the original or revised drawings are on file at the office of
FREASE AND NICHOLS, INC.
4055 INTERNATIONAL PLAZA, SUITE 200
DALLAS, TEXAS 75244
(817) 735-7300 RECORD DRAWINGS
PREPARED ON:
3/18/2013

CITY OF ROCKWALL, TEXAS		AIRPORT ROAD RECONSTRUCTION		CIVIL		STORM DRAIN PLAN AND PROFILE		STA 10+00 TO 15+00	
NO. ISSUE		BY DATE		F&N JOB NO.		DATE 05/15/12		DESIGNED KRJ	
SHEET		DRAWN		SLI		REVIS		CHECKED	
SD-6		DPH 1/28/2013		FILE NAME		cv-trt-pp-stdn06.sht		VERIFY SCALE Bar is one inch on original drawing, if not one inch on this sheet, adjust scale.	
43 OF 79									

Freese and Nichols, Inc. Texas Board of Professional Engineers Reg. No. 2144





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

FREESE AND NICHOLS, INC.
4055 INTERNATIONAL PLAZA, SUITE 200
FORT WORTH, TEXAS 76109-4895
(817) 735-7300 RECORD DRAWINGS
PREPARED ON: 1/18/2013

**FREESE
& NICHOLS**
1701 N. Market Street, Suite 500, LB 51
Dallas, TX 75202-2001
Phone - (214) 217-2200
Fax - (214) 217-2201
Web - www.freese.com

Freese and Nichols, Inc. Texas Board of Professional
Engineers Reg. No. 2144

CITY OF ROCKWALL, TEXAS
AIRPORT ROAD RECONSTRUCTION

CIVIL STORM DRAIN PLAN AND PROFILE SD LINE "C" & CULVERT C

SHEET		NO. ISSUE		BY		DATE		F&N JOB NO.	
SD-9								ROK08461	
SEQ.						DATE		05/15/12	
46 OF 79						DESIGNED		KRJ	
						DRAWN		SLJ	
						REVISED			
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cv-trt-pl-row01.dgn
cv-trt-pl-shade01.dgn

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34Border.dgn
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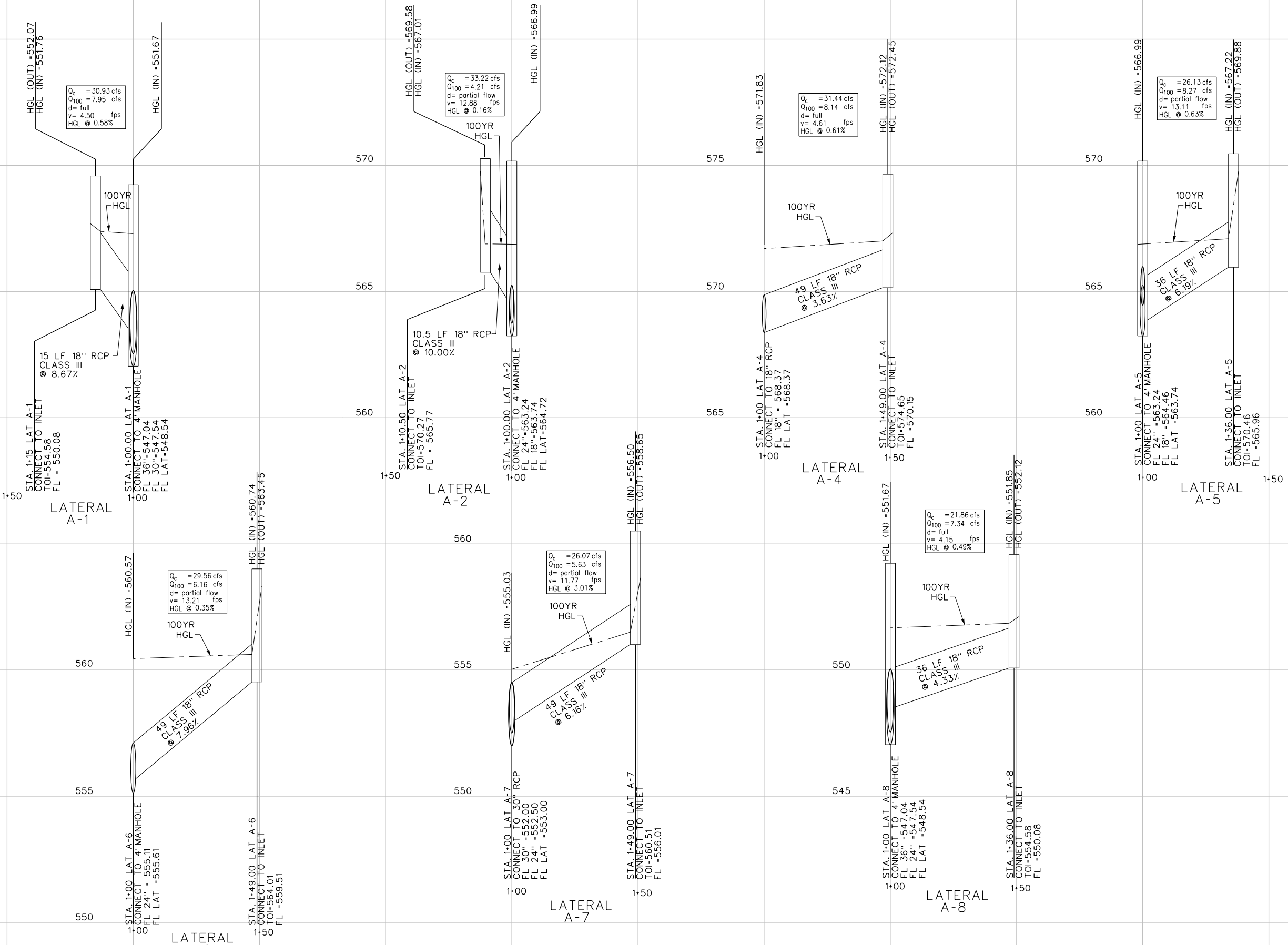
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SP13

34Border-LAT5.dgn

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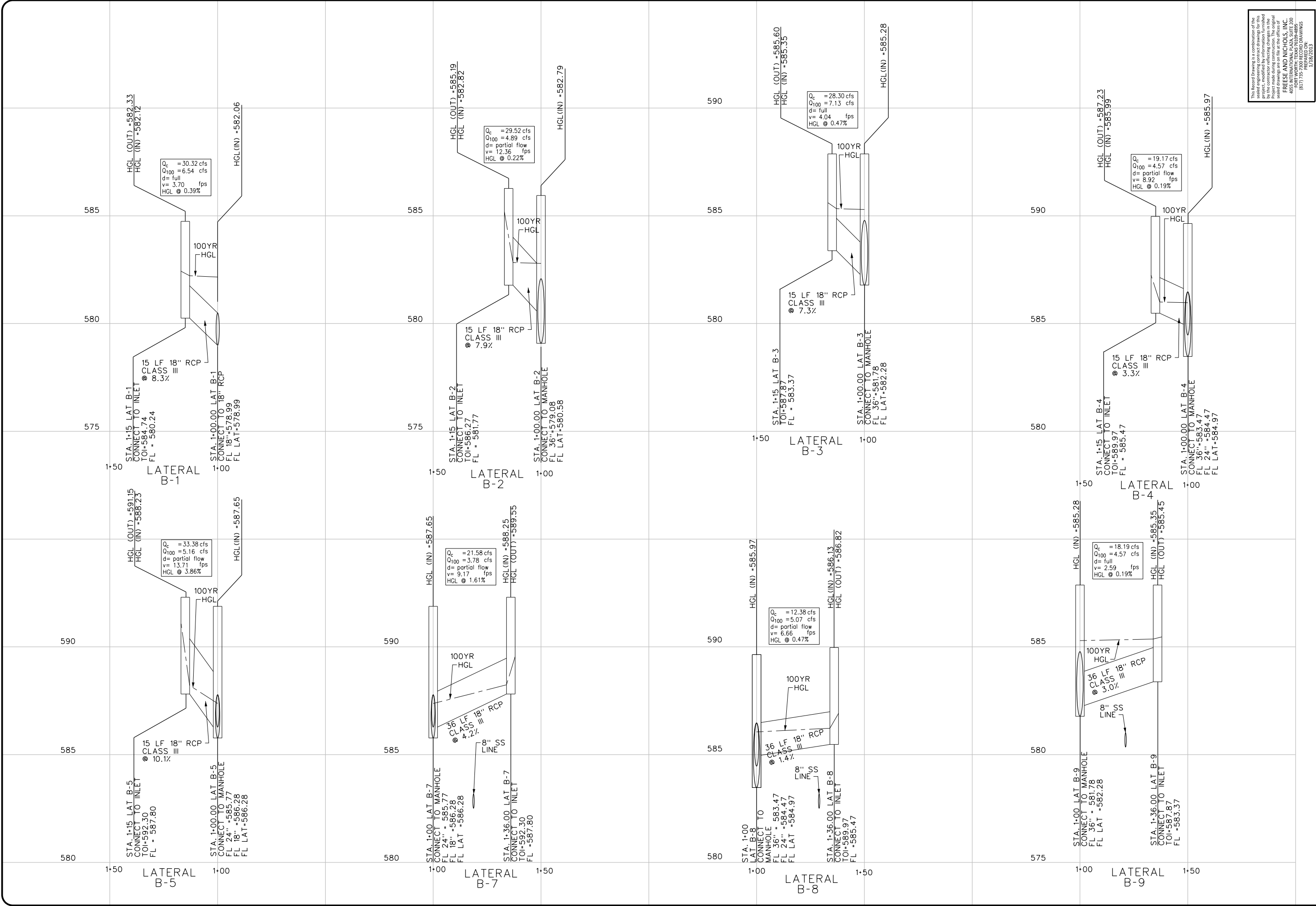


The Record Drawing is a combination of the original drawing and the information furnished by the contractor reflecting changes in the project. The information furnished by the contractor is the responsibility of the contractor. The information furnished by the contractor is not to be used for any other purpose without the written consent of Freese and Nichols, Inc. 4055 INTERNATIONAL PLAZA, SUITE 200 DALLAS, TEXAS 75202-2001 (817) 735-7300 RECORD DRAWINGS PREPARED ON: 2/18/2013

SHEET		NO. ISSUE		BY		DATE		F&N JOB NO.	
LTS-1								R0K08641	
SEQ.								DATE	
47 OF 79								DESIGNED	
								DRAWN	
								REVISED	
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CITY OF ROCKWALL, TEXAS
AIRPORT ROAD RECONSTRUCTION
CIVIL
STORM DRAIN LATERALS
A-1 THRU A-8

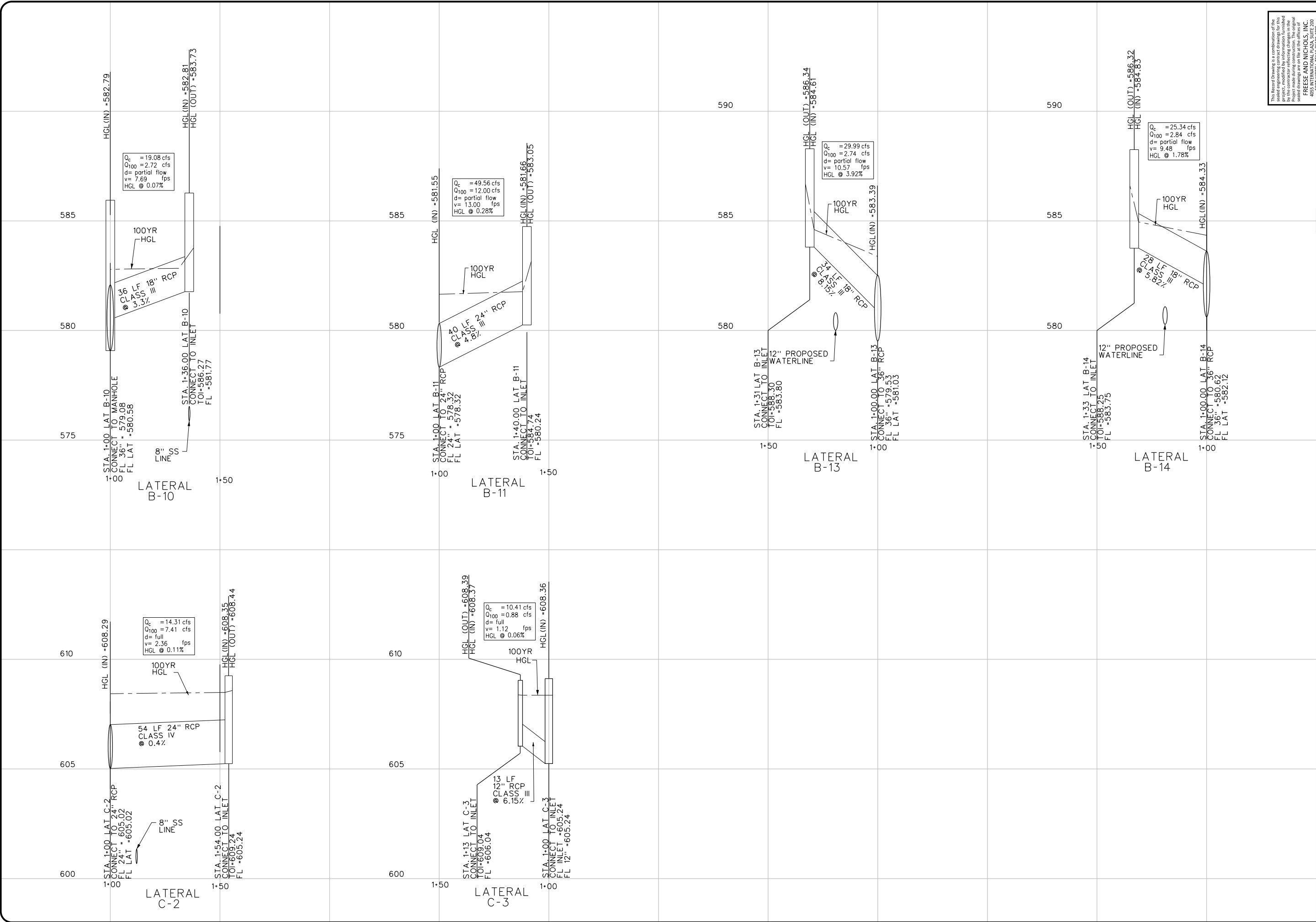
FREES AND NICHOLS
1701 N. Market Street, Suite 500, LB 51
Dallas, TX 75202-2001
Tel - (214) 217-2200
Fax - (214) 217-2201
Web - www.freese.com
The seal that originally appeared on this document was authorized by Kevin R. Johnson, Texas No. 93882, on date 2/7/11. The seal was removed by the contractor without proper notification of the responsible engineer is an offense under the Texas Engineering Practice Act.
Freese and Nichols, Inc. Texas Board of Professional Engineers Reg. No. 2144



MicroStation V8 User: 02069Office: Dallas
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Date: Jan. 29, 2013 - 08:13:42 AM Project: Freese and Nichols, Inc.

SP13

34Border-LAT5.dgn



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FREES AND NICHOLS, INC.
4055 INTERNATIONAL PLAZA, SUITE 200
DALLAS, TEXAS 75244
(817) 735-7300 RECORD DRAWINGS
PREPARED ON:
2/18/2013

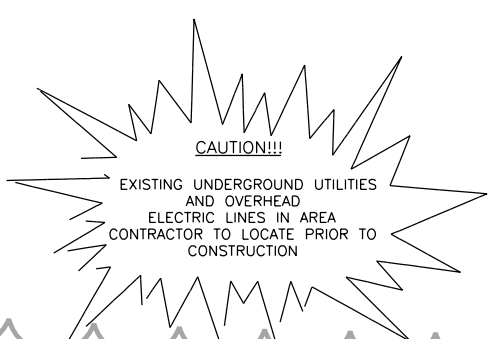
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SHEET		R0K08641			AIRPORT ROAD RECONSTRUCTION	
SEQ.		DATE 2/4/11			CIVIL	
49 OF 79		DESIGNED RWM			STORM DRAIN LATERALS	
		DRAWN CHM			B-9 THRU B-14, C2 & C3	
		REVISED				
		CHECKED				
VERIFY SCALE Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.		FILE NAME				
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FREES AND NICHOLS

1701 N. Market Street, Suite 500, LB 51
Dallas, TX 75202-2001
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Fax - (214) 217-2201
Web - www.freese.com

THE SEAL THAT ORIGINALLY APPEARED ON THIS DOCUMENT WAS AUTHORIZED BY Kevin R. Johnson
TEXAS NO. 93882 - SEAL EXPIRATION DATE 2/7/11
NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

Freese and Nichols, Inc. Texas Board of Professional Engineers Reg. No. 2144



WATERLINE 'B' CENTERLINE		
LINE	LENGTH	LINE TABLE BEARING
L202	1,007.33	N 89° 26' 30.94" E
L203	35.09	N 89° 26' 30.77" E
L204	15.35	N 45° 35' 09.91" E

CURVE TABLE				
CURVE	LENGTH	RADIUS	TAN.	DELTA
C104	133.35	1,000	66.78	5° 43' 46.48"
C201	42.46	300	21.27	19° 05' 54.94"
C202	42.46	300	21.27	19° 05' 54.94"

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FREESE AND NICHOLS, INC.
4055 INTERNATIONAL PLAZA, SUITE 200
FORT WORTH, TEXAS 76109-4895
(817) 735-7300 RECORD DRAWINGS
PREPARED ON: 1/18/2013

THE SEAL THAT ORIGINALLY APPEARED ON THIS DOCUMENT WAS AUTHORIZED BY CIVILIAN REVIEWERS.
TEXAS NO. 94646 ON DATE: 2/4/11
ALTERATION ON A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

Freeze and Nichols, Inc., Texas Board of Professional Engineers Reg. No. 2144

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& NICHOLS**
1701 N. Market Street, Suite 500, LB 51
Dallas, TX 75202-2001
Phone - (214) 217-2200
Fax - (214) 217-2201
Web - www.freese.com

CITY OF ROCKWALL, TEXAS

AIRPORT ROAD RECONSTRUCTION

CIVIL

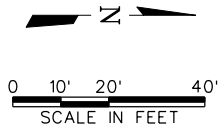
WATERLINE

STA 51+00 TO END

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			DATE	05/15/12
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			DRAWN	SLI
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Office: Dallas ROK08461 Date: Jan. 29, 2013 - 08:13:56 AM User: 02069File: N:\F\Drawings\cv-trt-pl-wtr06.sht



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

FRESE AND NICHOLS, INC.
4055 INTERNATIONAL PLAZA, SUITE 200
FORT WORTH, TEXAS 76109-4895
(817) 735-7300 RECORD DRAWINGS

PREPARED ON:
1/18/2013

THE SEAL APPEARING ON THIS DOCUMENT WAS
AUTHORIZED BY CLAYTON EVERS
TEXAS NO: 94646 ON 02/03/2012
ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER
NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN
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Dallas, TX 75202-2001
Phone - (214) 217-2200
Fax - (214) 217-2201
Web - www.freese.com

CITY OF ROCKWALL, TEXAS
AIRPORT ROAD RECONSTRUCTION

CIVIL
AMITY LANE WATERLINE
STA 11+00 TO END

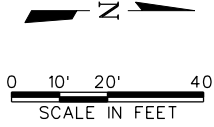
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VERIFY SCALE Bar is one inch on original drawing, if not one inch on this sheet, adjust scale.		FILE NAME	
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SHEET WT-8 SEQ. 55B OF 79			

NOTE:

1. WATERLINE SHALL BE AWWA C-900 PVC.	4. CONTRACTOR TO INSTALL 1" SERVICE LINES ALL THE WAY TO EXISTING METERS BUT NOT CONNECT. LINES TO BE PLUGGED NEXT TO EXISTING METER.
2. ALL FITTINGS SHALL BE AWWA C110 MJ AND RESTRAINED WITH MEGALUG.	
3. WATERLINE SHALL HAVE A MINIMUM BURY DEPTH OF 48"	5. COMPLY WITH TCEQ REGULATIONS CONCERNING SEPARATION DISTANCES.

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Office: Dallas ROK08461 Date: Jan. 29, 2013 - 09:39:27 AM User: 02069File: N:\IF\Drawings\cv-trt-pl-wtr08.sh



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FRESE AND NICHOLS, INC.
4055 INTERNATIONAL PLAZA, SUITE 200
FORT WORTH, TEXAS 76109-4895
(817) 735-7300 RECORD DRAWINGS

PREPARED ON:
1/18/2013

THE SEAL APPEARING ON THIS DOCUMENT WAS
AUTHORIZED BY CLAYTON EVERS
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ALTERNATION OF A SEALED DOCUMENT WITHOUT PROPER
NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN
OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

Freese and Nichols, Inc. Texas Board of Professional
Engineers Reg. No. 2144

FREESE
NICHOLS
2

1701 N. Market Street, Suite 500, LB 51
Dallas, TX 75202-2001
Phone - (214) 217-2200
Fax - (214) 217-2201
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CITY OF ROCKWALL, TEXAS
AIRPORT ROAD RECONSTRUCTION

CIVIL
INDIAN TRAIL WATERLINE
STA 11+00 TO END

NO. ISSUE	BY	DATE	F&N JOB NO.
			ROK08461
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NOTE:

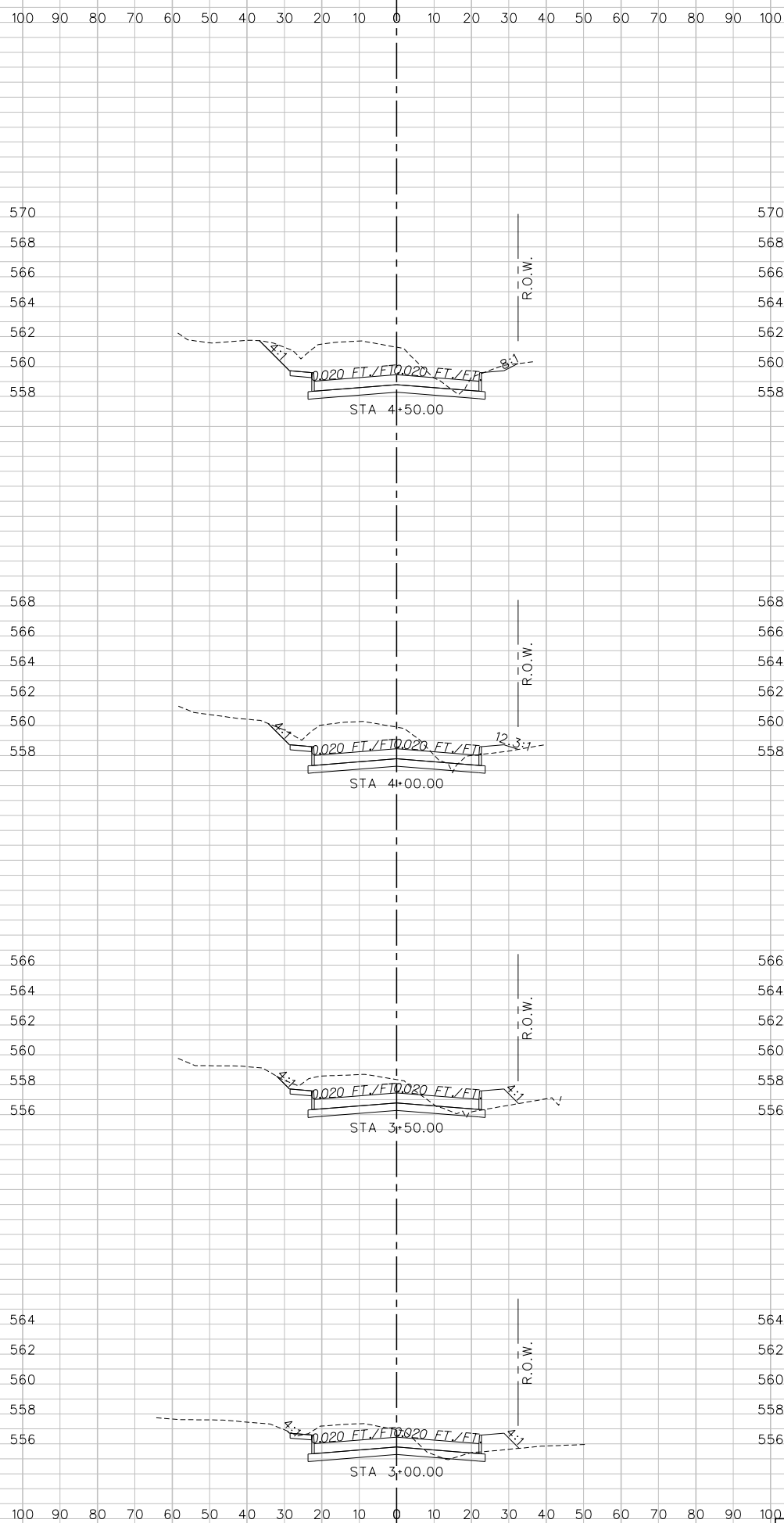
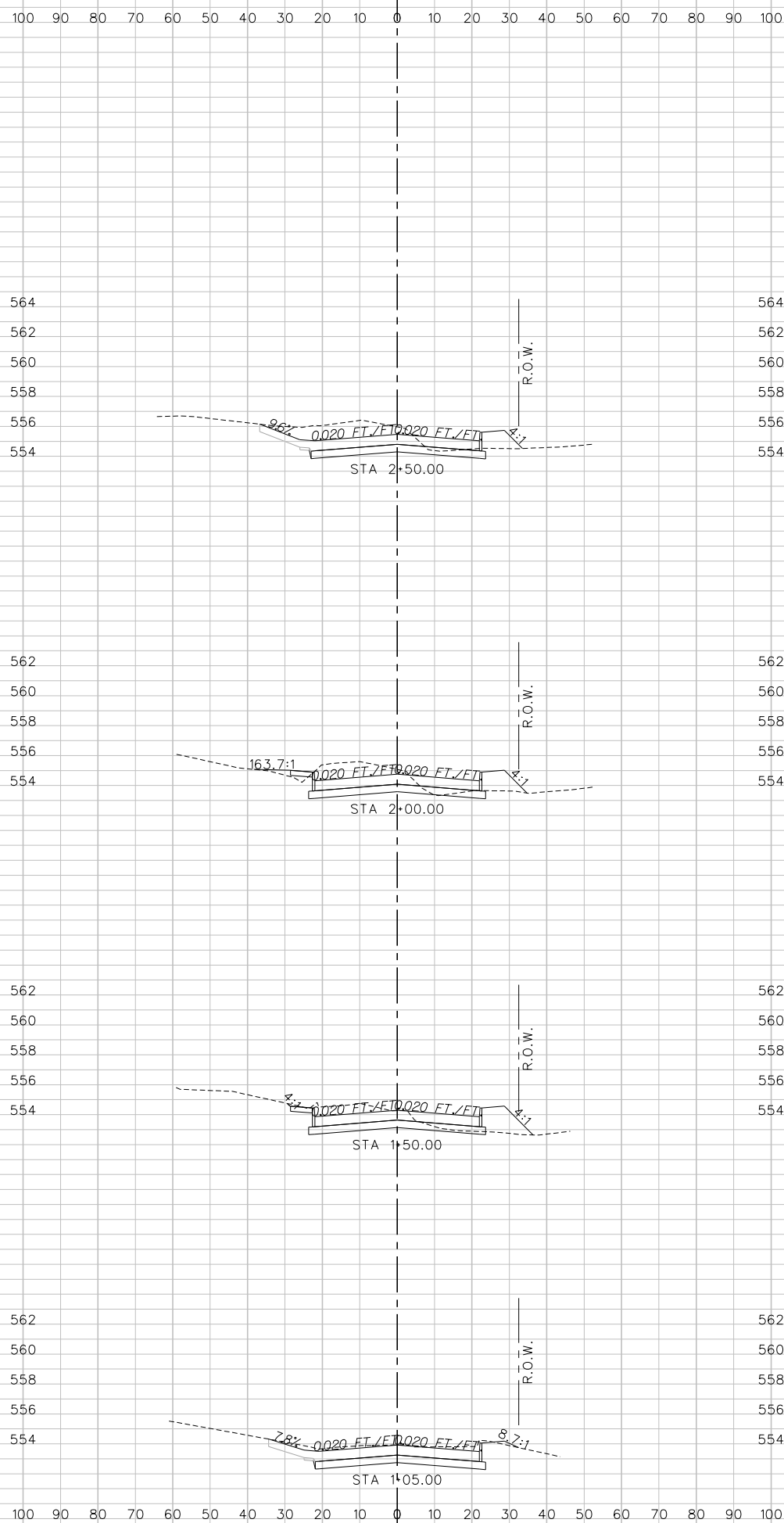
1. WATERLINE SHALL BE AWWA C-900 PVC. 2. ALL FITTINGS SHALL BE AWWA C110 MJ AND RESTRAINED WITH MEGALUG. 3. WATERLINE SHALL HAVE A MINIMUM BURY DEPTH OF 48"	4. CONTRACTOR TO INSTALL 1" SERVICE LINES ALL THE WAY TO EXISTING METERS BUT NOT CONNECT. LINES TO BE PLUGGED NEXT TO EXISTING METER. 5. COMPLY WITH TCEQ REGULATIONS CONCERNING SEPARATION DISTANCES.
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LEGEND

- _____ EXISTING SANITARY SEWER
 - - - - - PROPOSED WATERLINE
 - - - - - EXISTING WATERLINE

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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

FREESE AND NICHOLS, INC.
4055 INTERNATIONAL PLAZA, SUITE 200
FORT WORTH, TEXAS 76109-4895
(817) 735-7300 RECORD DRAWINGS
PREPARED ON: 1/18/2013

DATE	5/15/12
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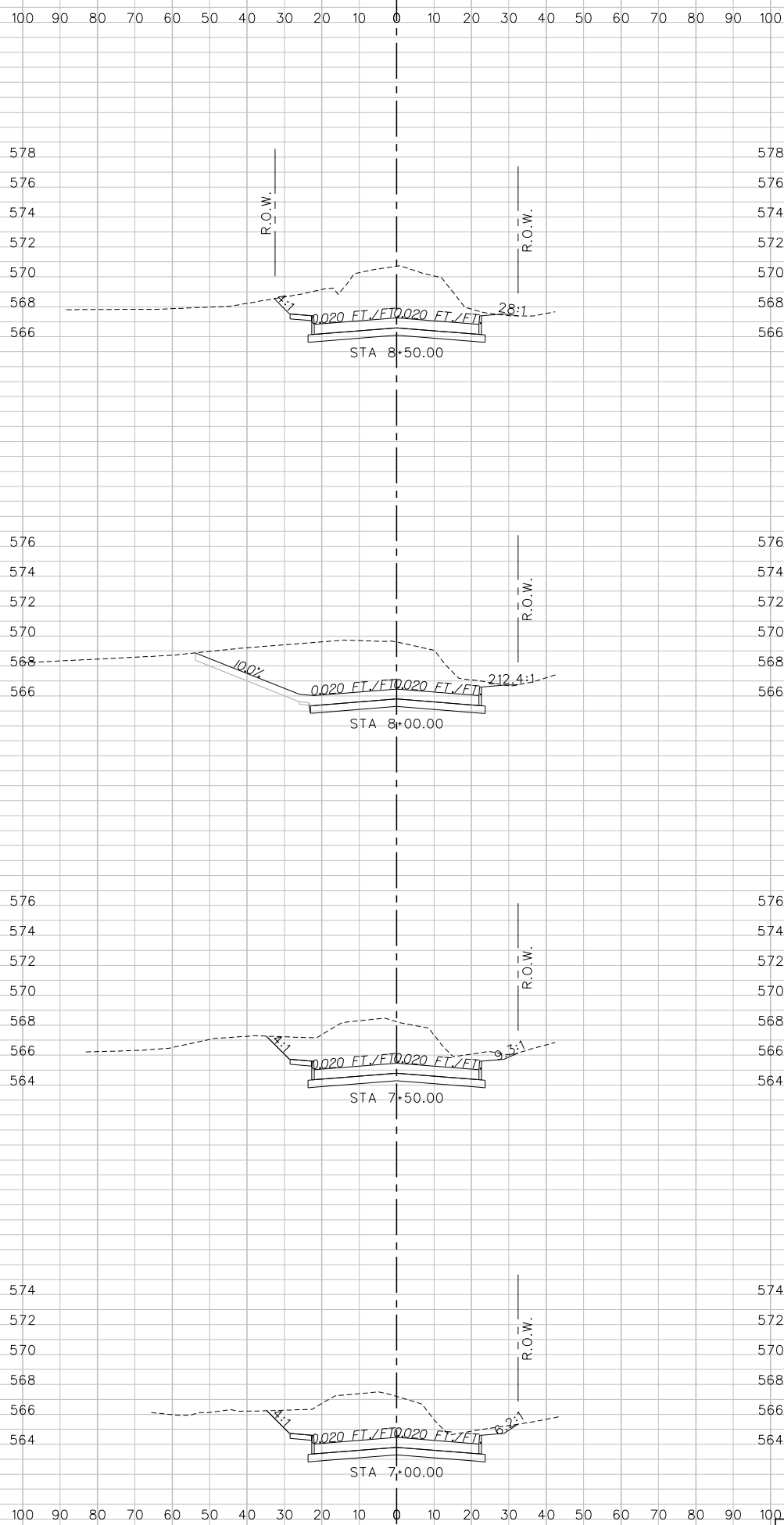
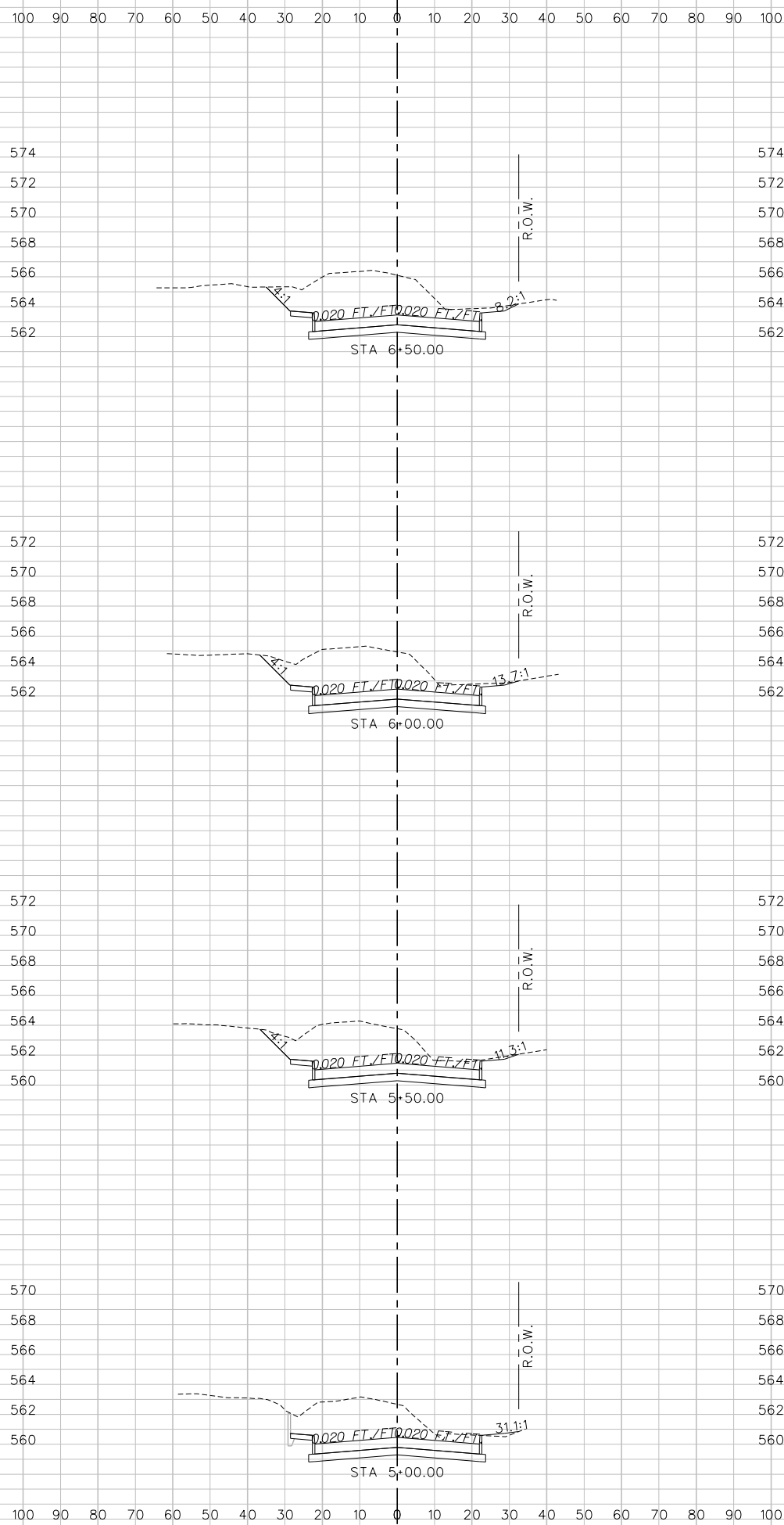
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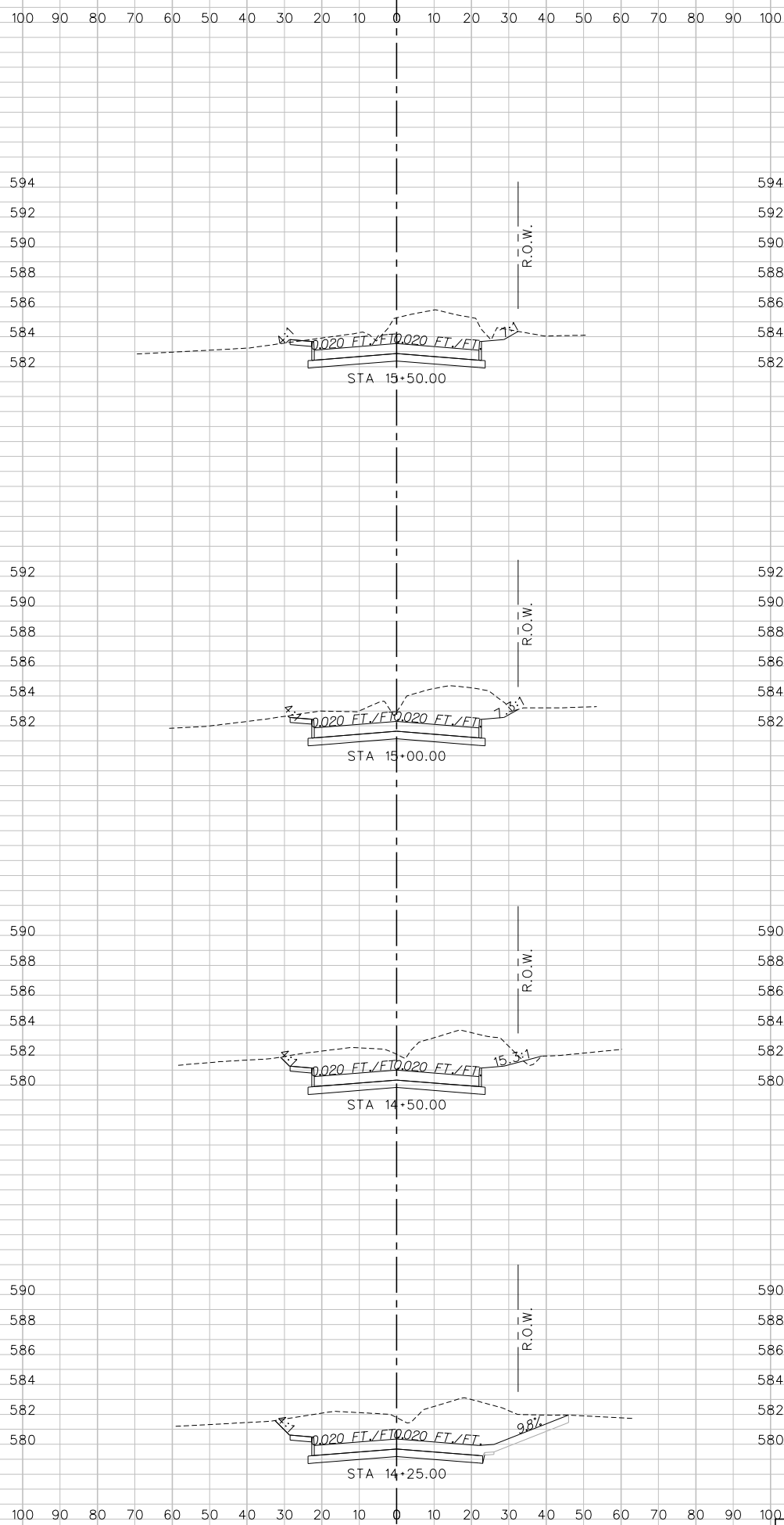
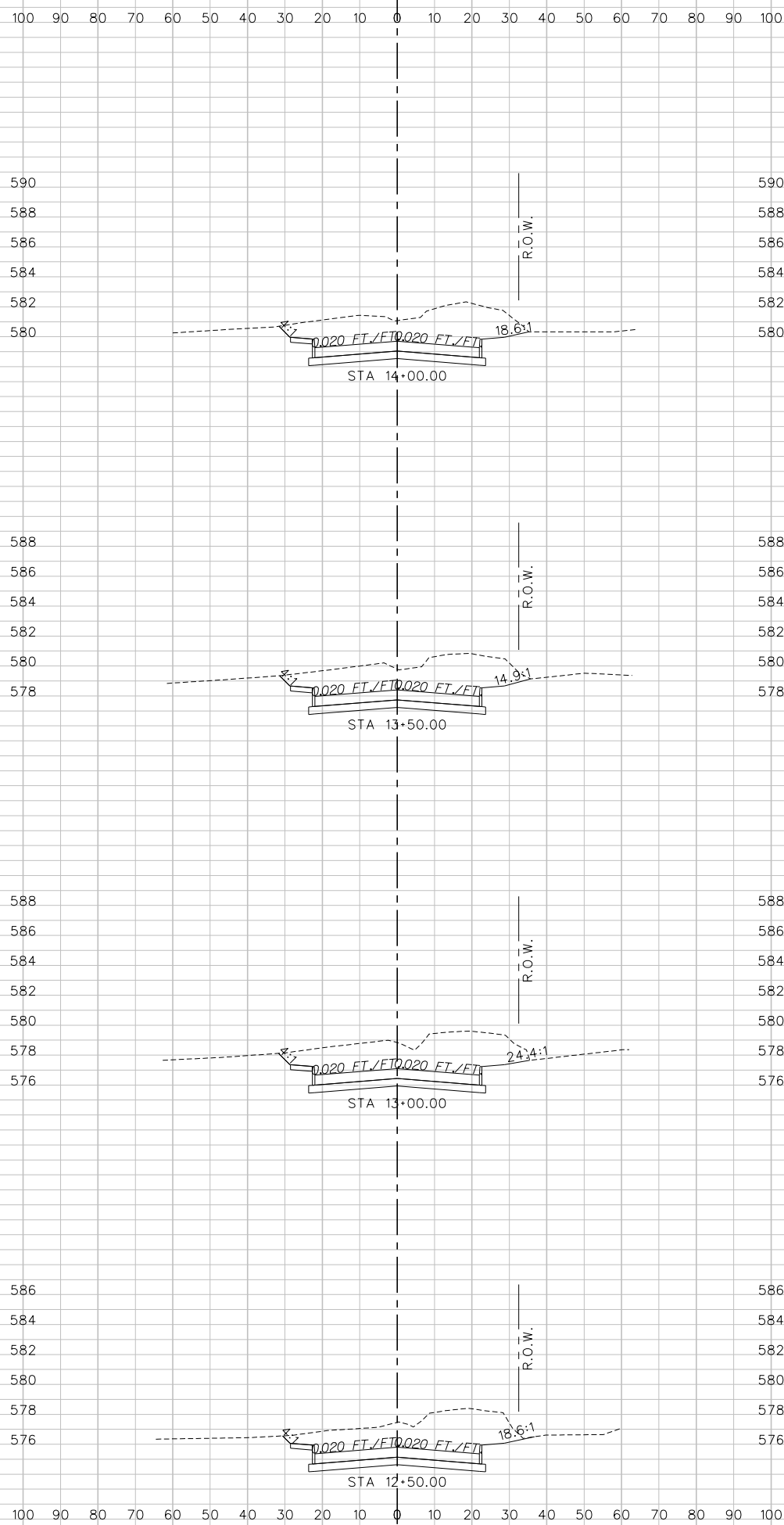
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FREESE AND NICHOLS, INC.
4055 INTERNATIONAL PLAZA, SUITE 200
FORT WORTH, TEXAS 76109-4895
(817) 735-7300 RECORD DRAWINGS
PREPARED ON: 1/18/2013

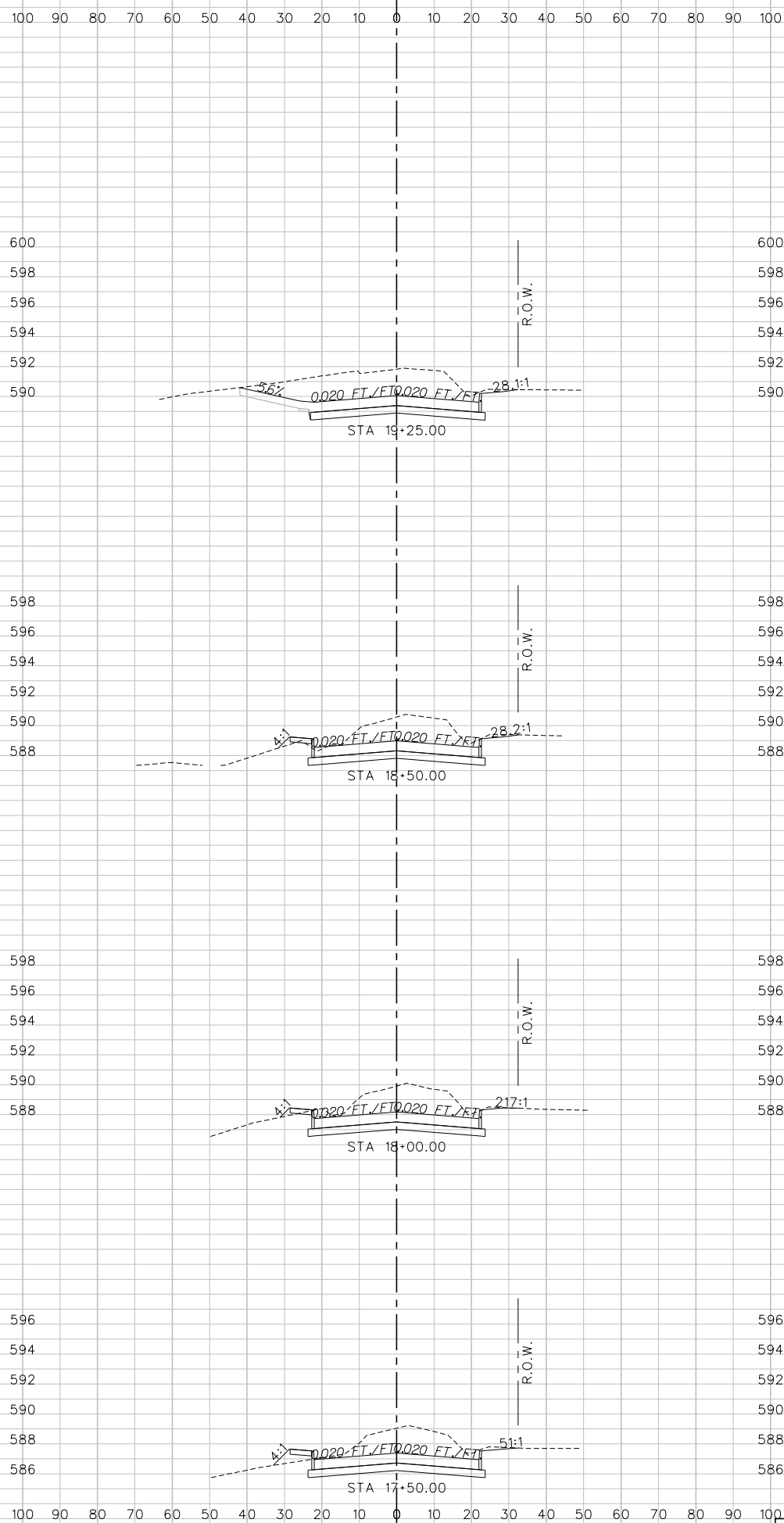
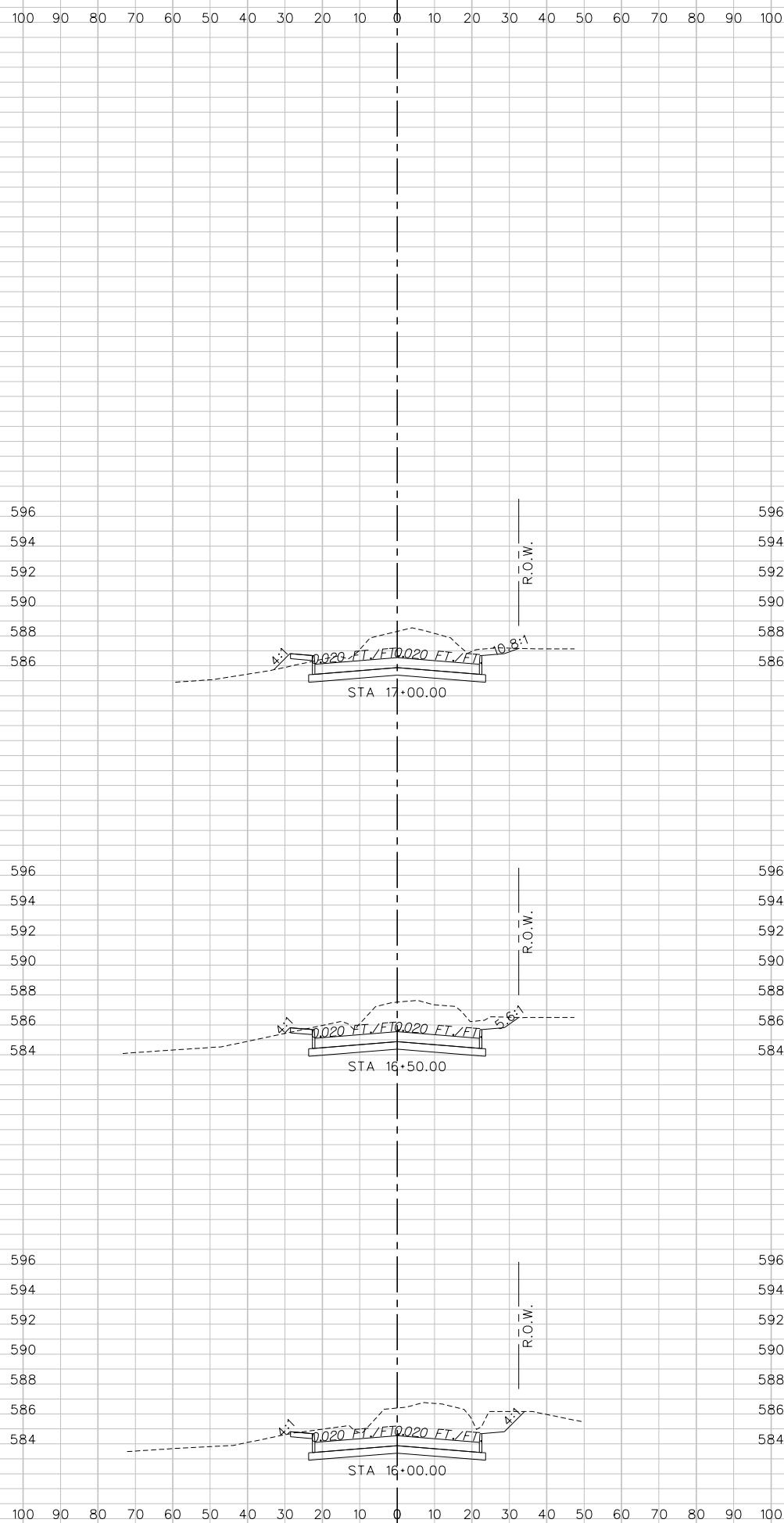
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4055 INTERNATIONAL PLAZA, SUITE 200
FORT WORTH, TEXAS 76109-4895
(817) 735-7300 RECORD DRAWINGS
PREPARED ON: 1/18/2013

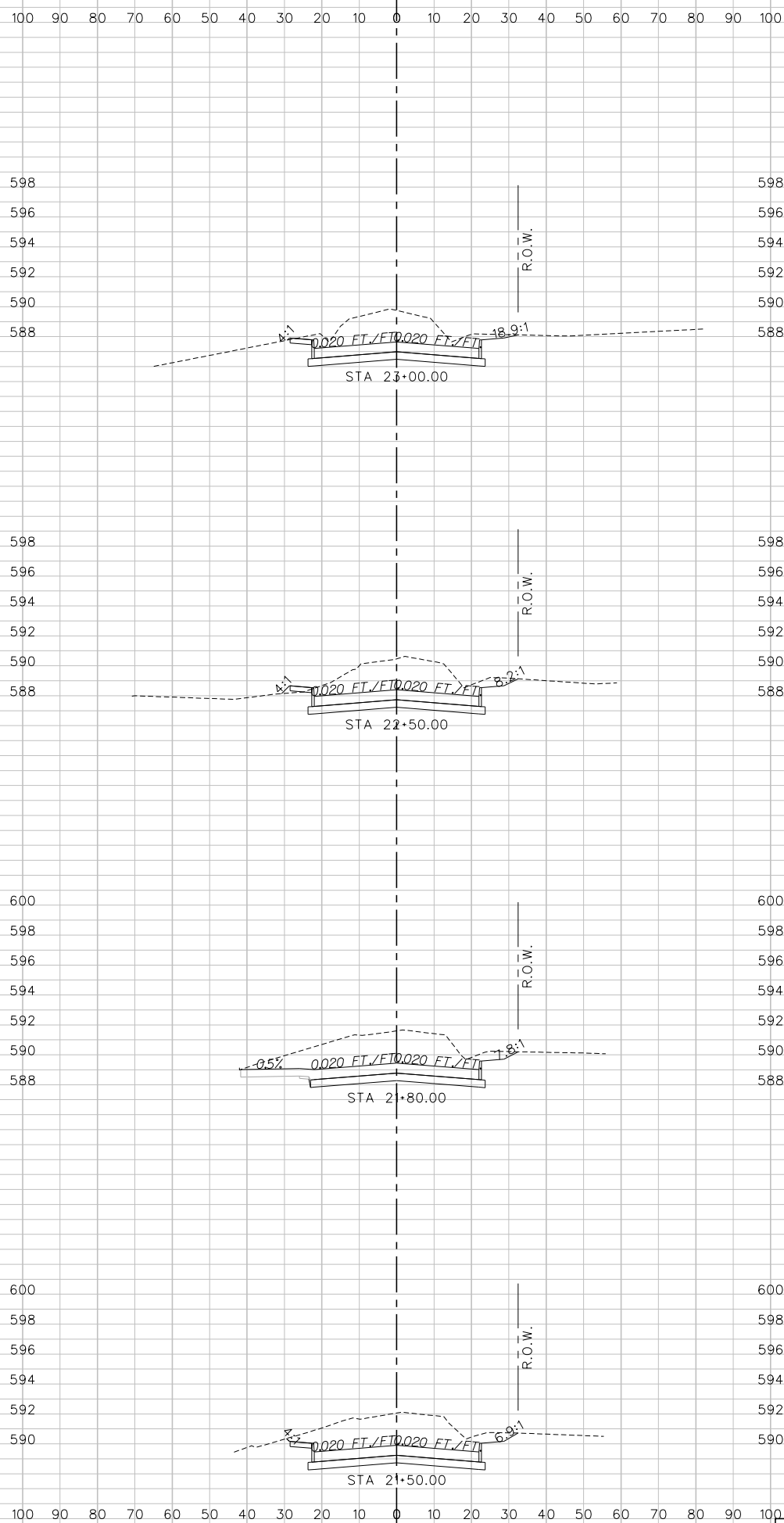
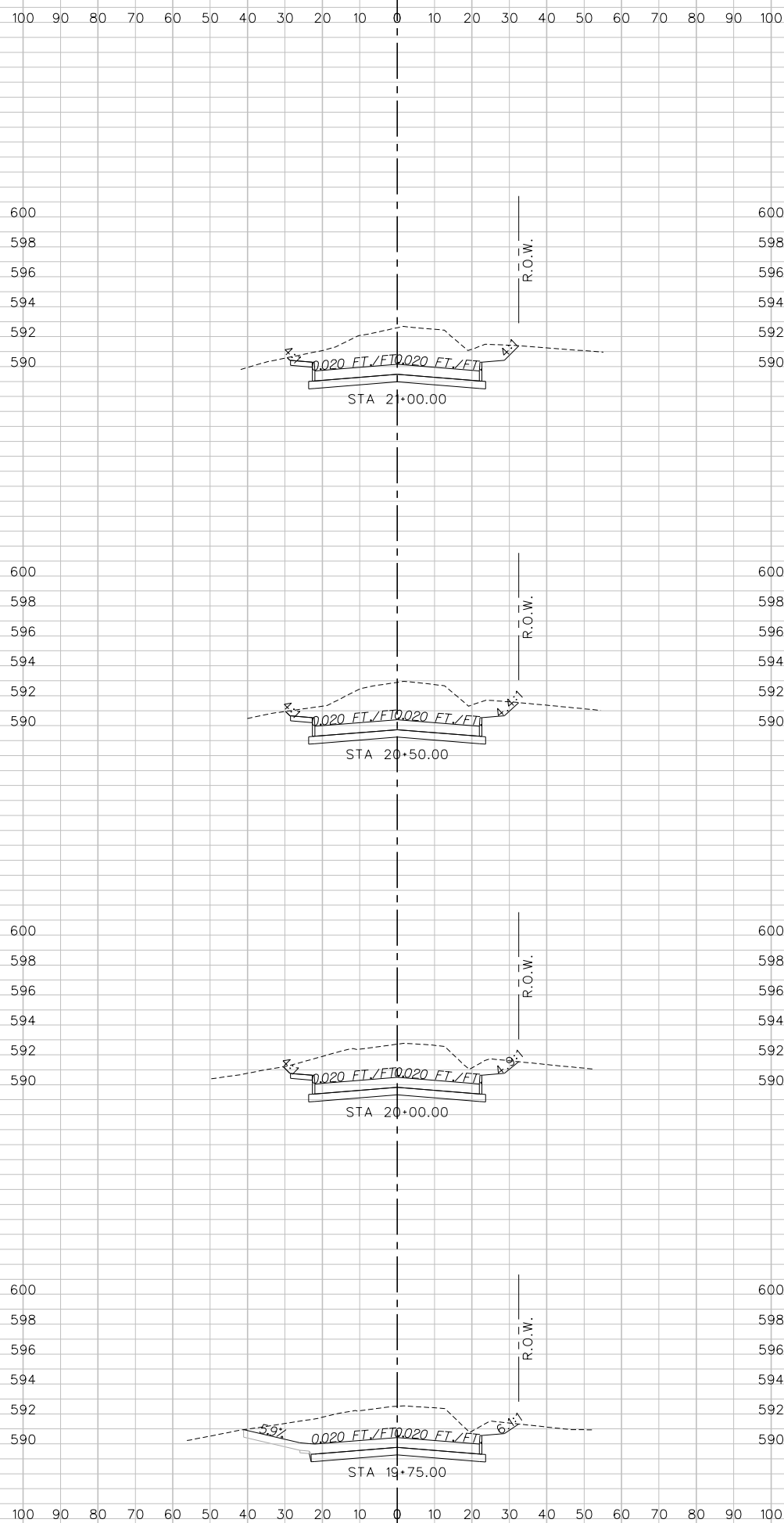
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FREESE AND NICHOLS, INC.
4055 INTERNATIONAL PLAZA, SUITE 200
FORT WORTH, TEXAS 76109-4895
(817) 735-7300 RECORD DRAWINGS
PREPARED ON: 1/18/2013

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FREESE AND NICHOLS, INC.
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FORT WORTH, TEXAS 76109-4895
(817) 735-7300 RECORD DRAWINGS
PREPARED ON: 1/18/2013

**FREESE
NICHOLS**
924

1701 N. Market Street, Suite 500, LB 51
Dallas, TX 75202-2001
Phone - (214) 217-2200
Fax - (214) 217-2201
Web - www.freese.com

THE SEAL THAT ORIGINALLY APPEARED ON THIS DOCUMENT WAS AUTHORIZED BY Kevin R. Johnson
TEXAS NO: 93882 ON DATE: 2/7/11
ALTERATION ON A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

Freese and Nichols, Inc. Texas Board of Professional
Engineers Reg. No. 2144

CITY OF ROCKWALL, TEXAS

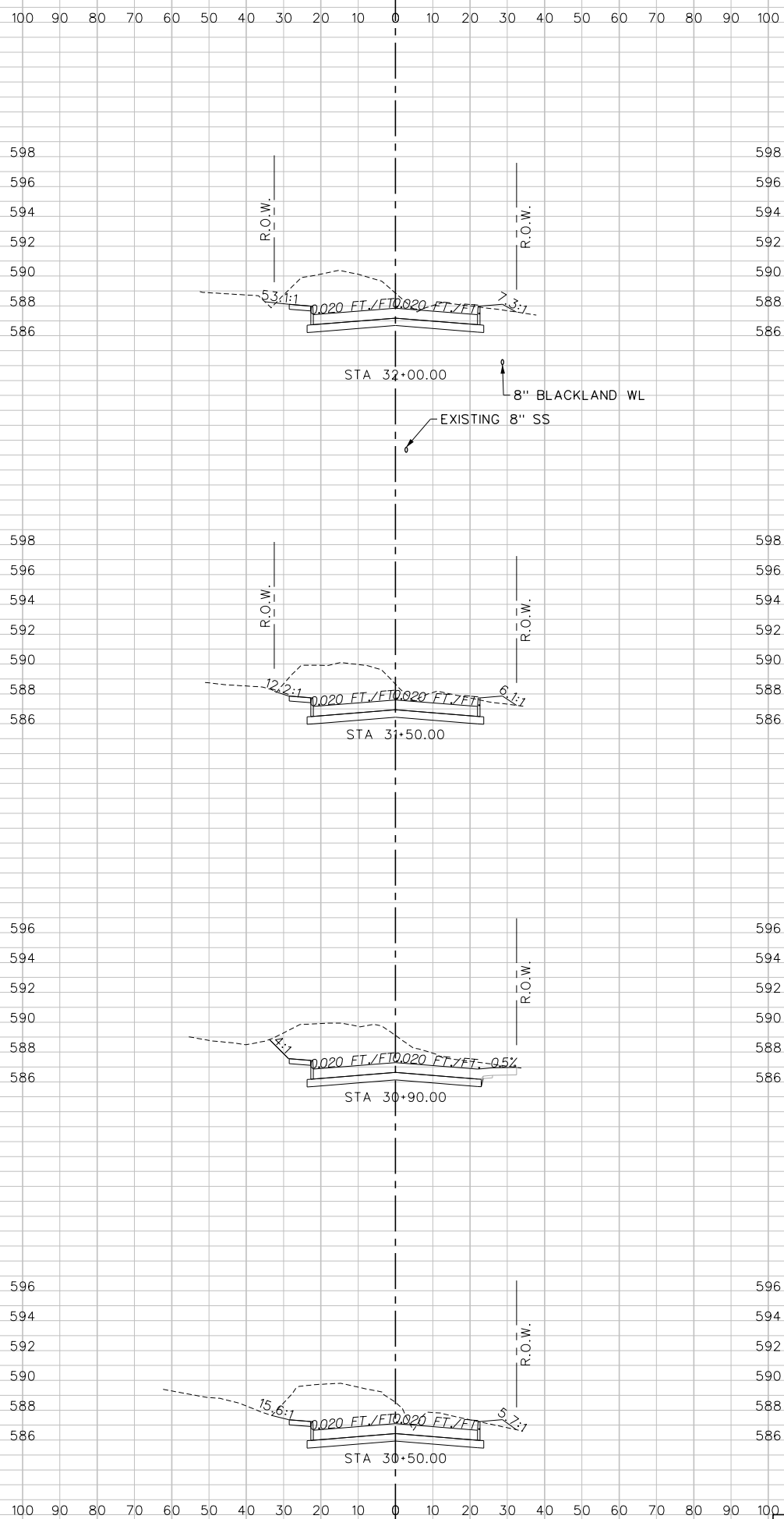
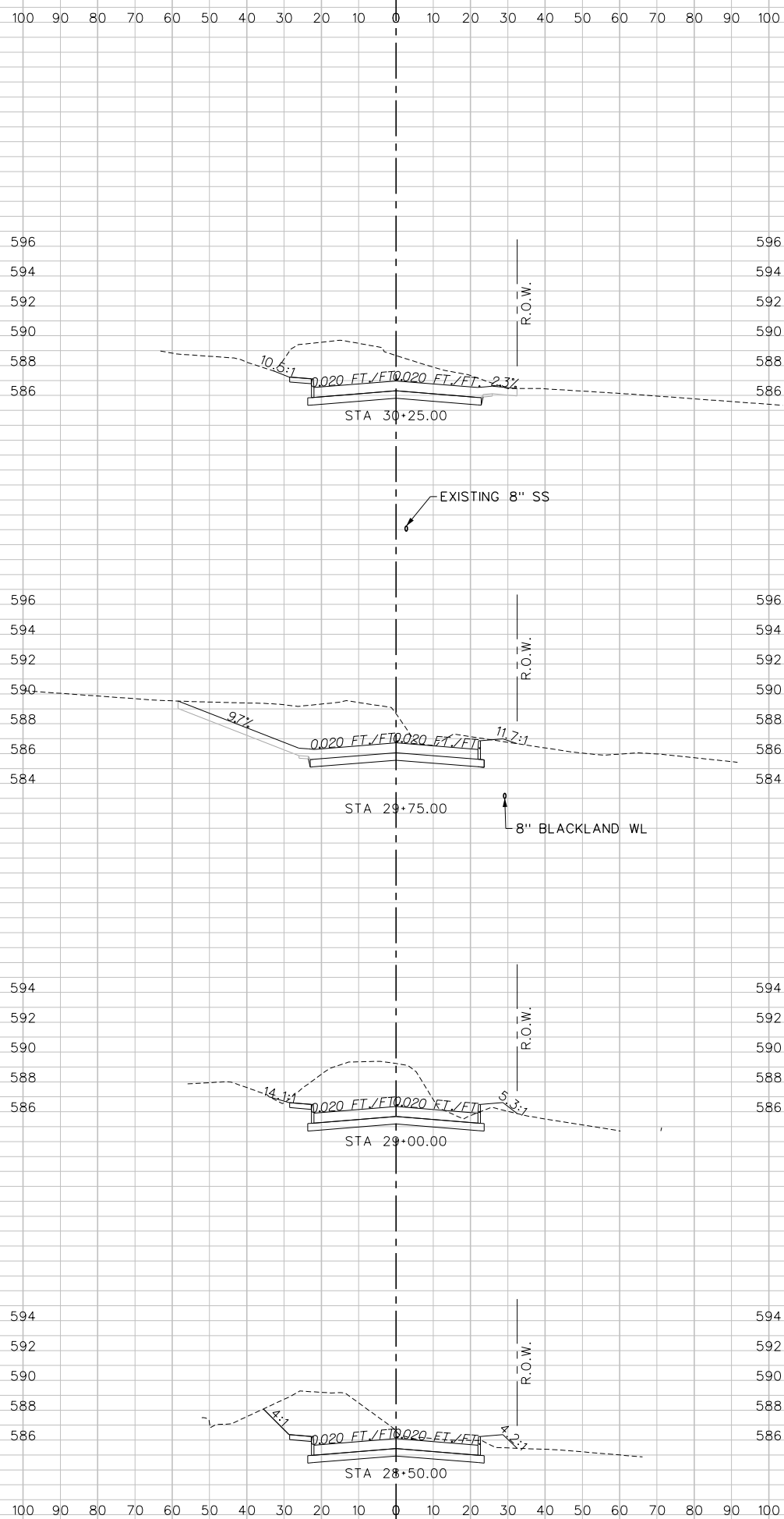
AIRPORT ROAD RECONSTRUCTION

CIVIL

CROSS SECTIONS

STA 19+75 TO STA 23+00

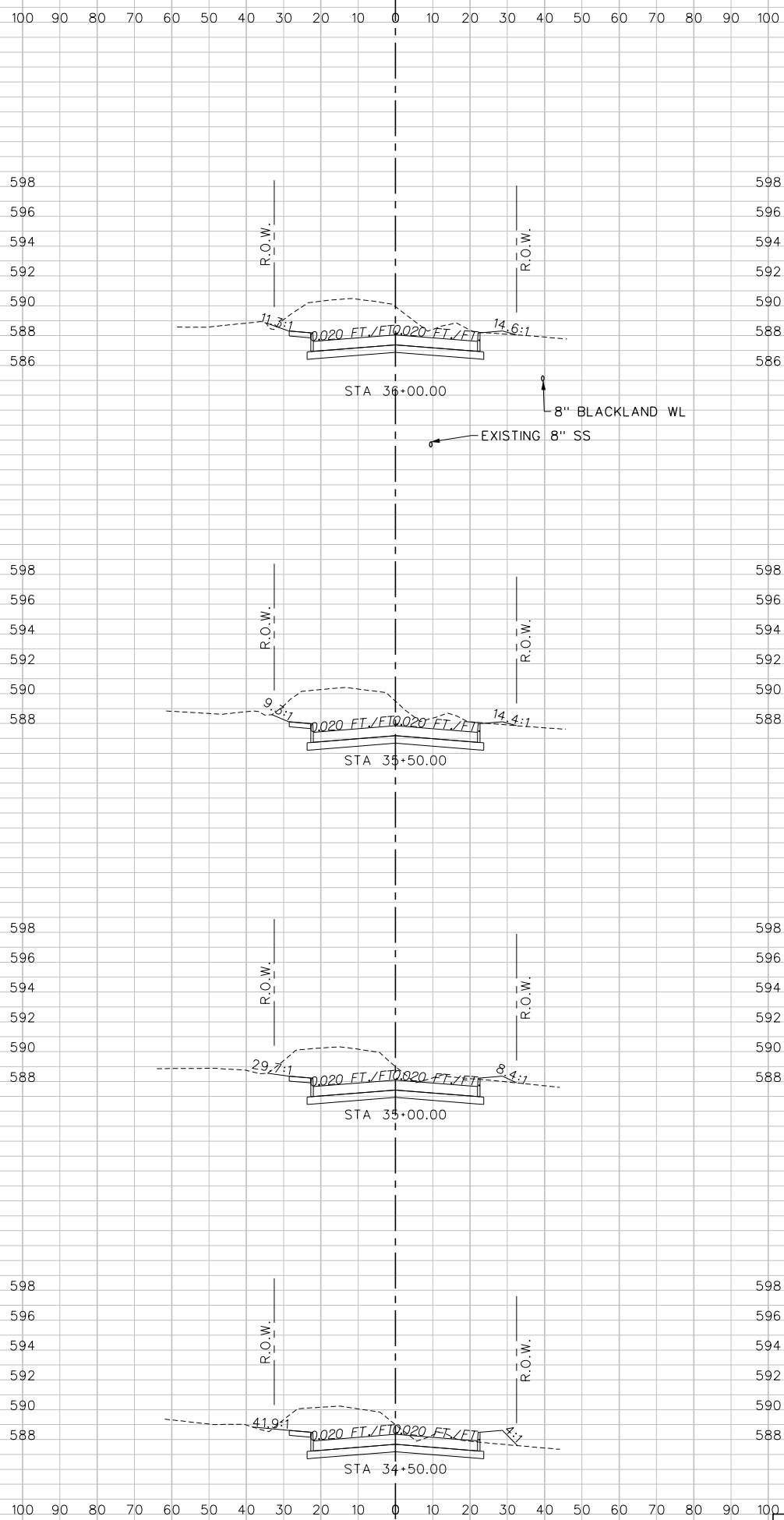
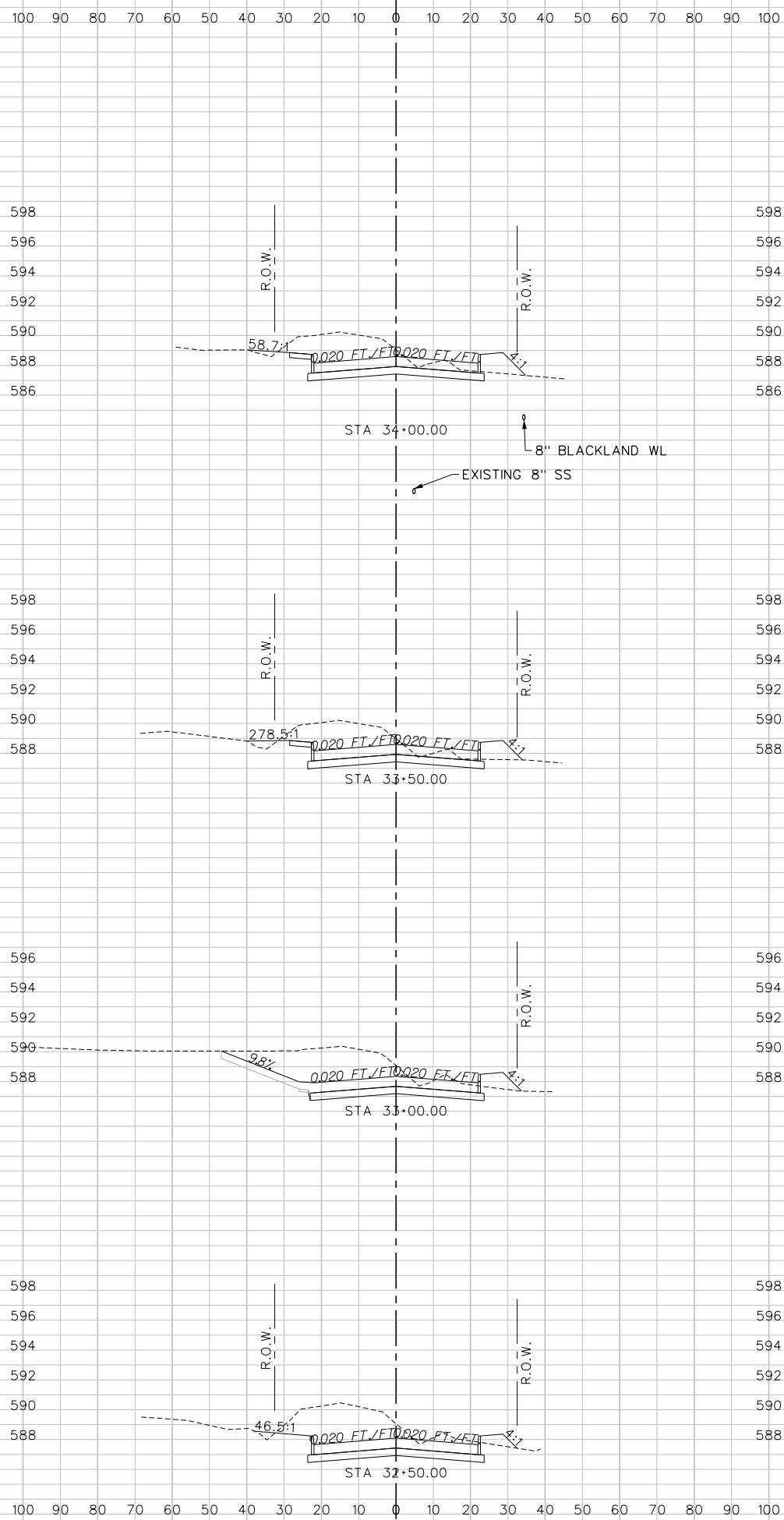
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		DATE	5/15/12
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FREESE AND NICHOLS, INC.
4055 INTERNATIONAL PLAZA, SUITE 200
FORT WORTH, TEXAS 76109-4895
(817) 735-7300 RECORD DRAWINGS
PREPARED ON: 1/18/2013

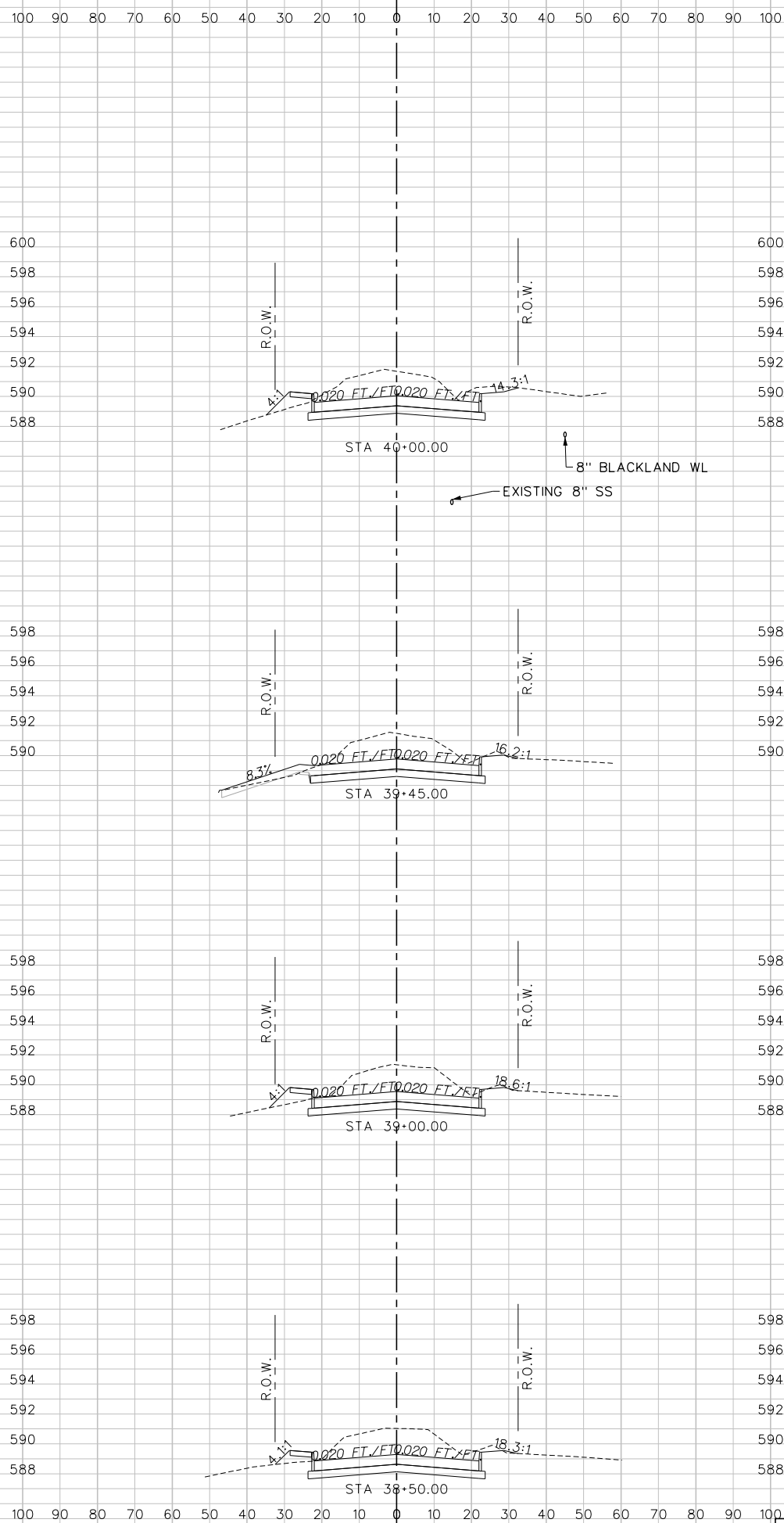
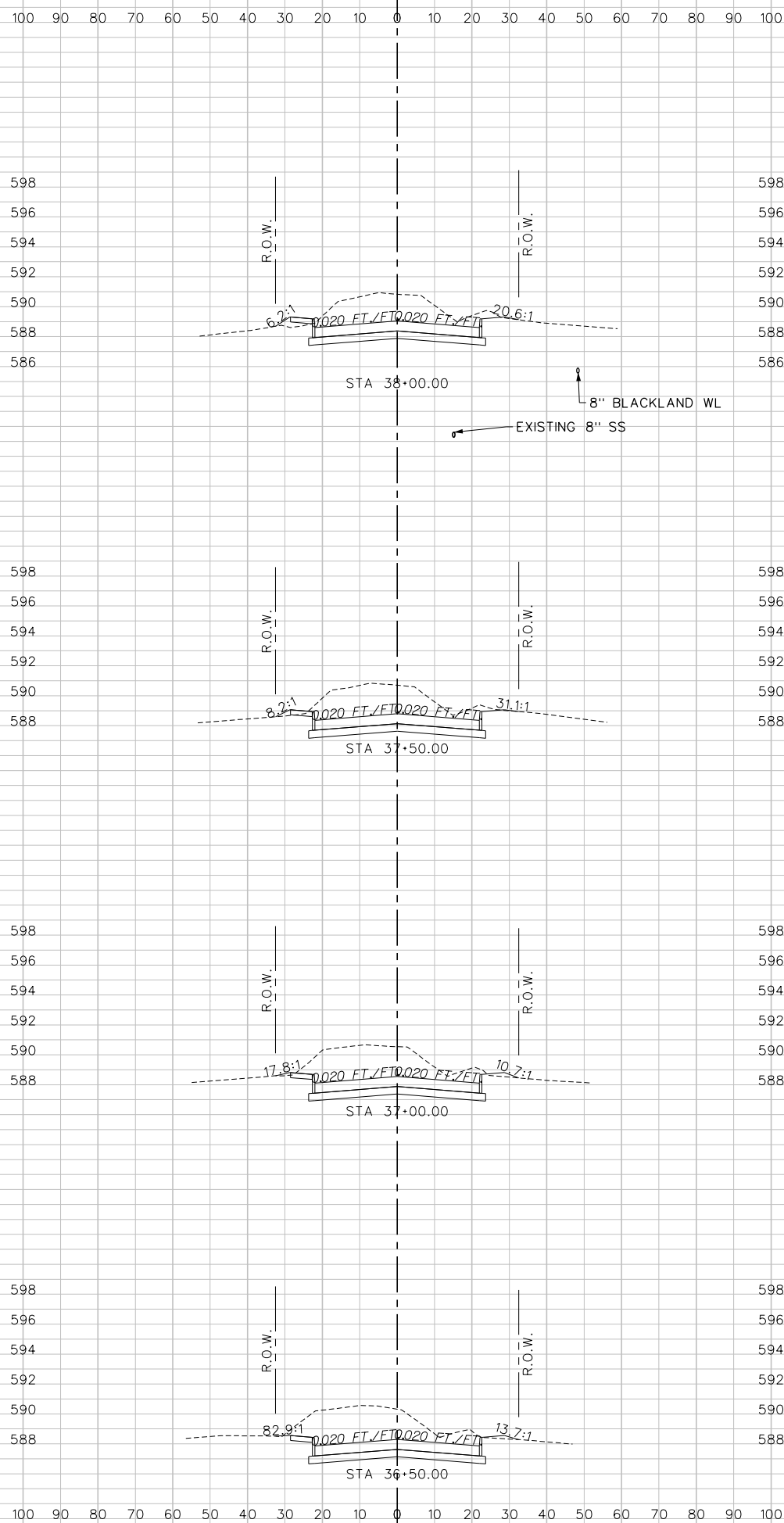
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FREESE AND NICHOLS, INC.
4055 INTERNATIONAL PLAZA, SUITE 200
FORT WORTH, TEXAS 76109-4895
(817) 735-7300 RECORD DRAWINGS
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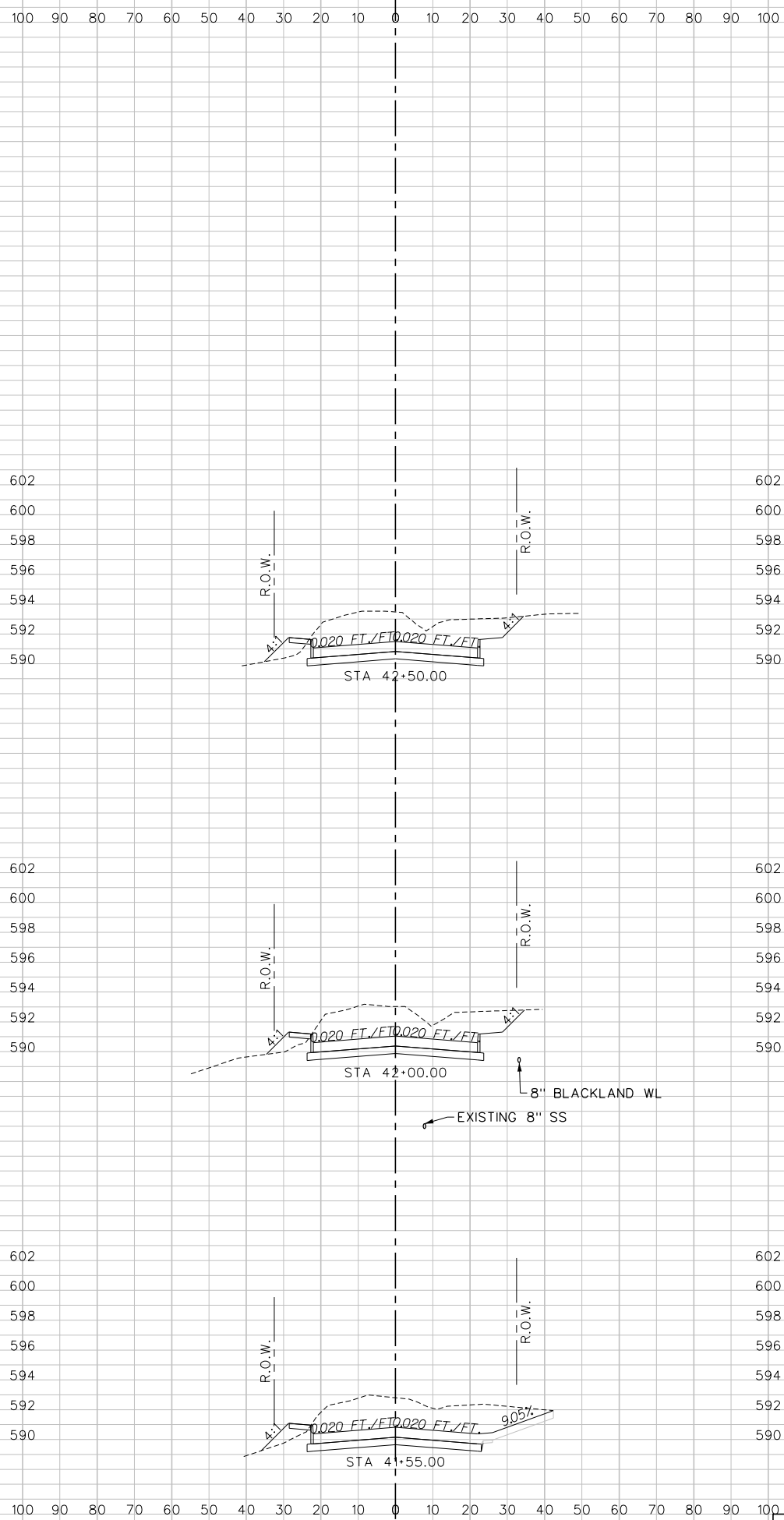
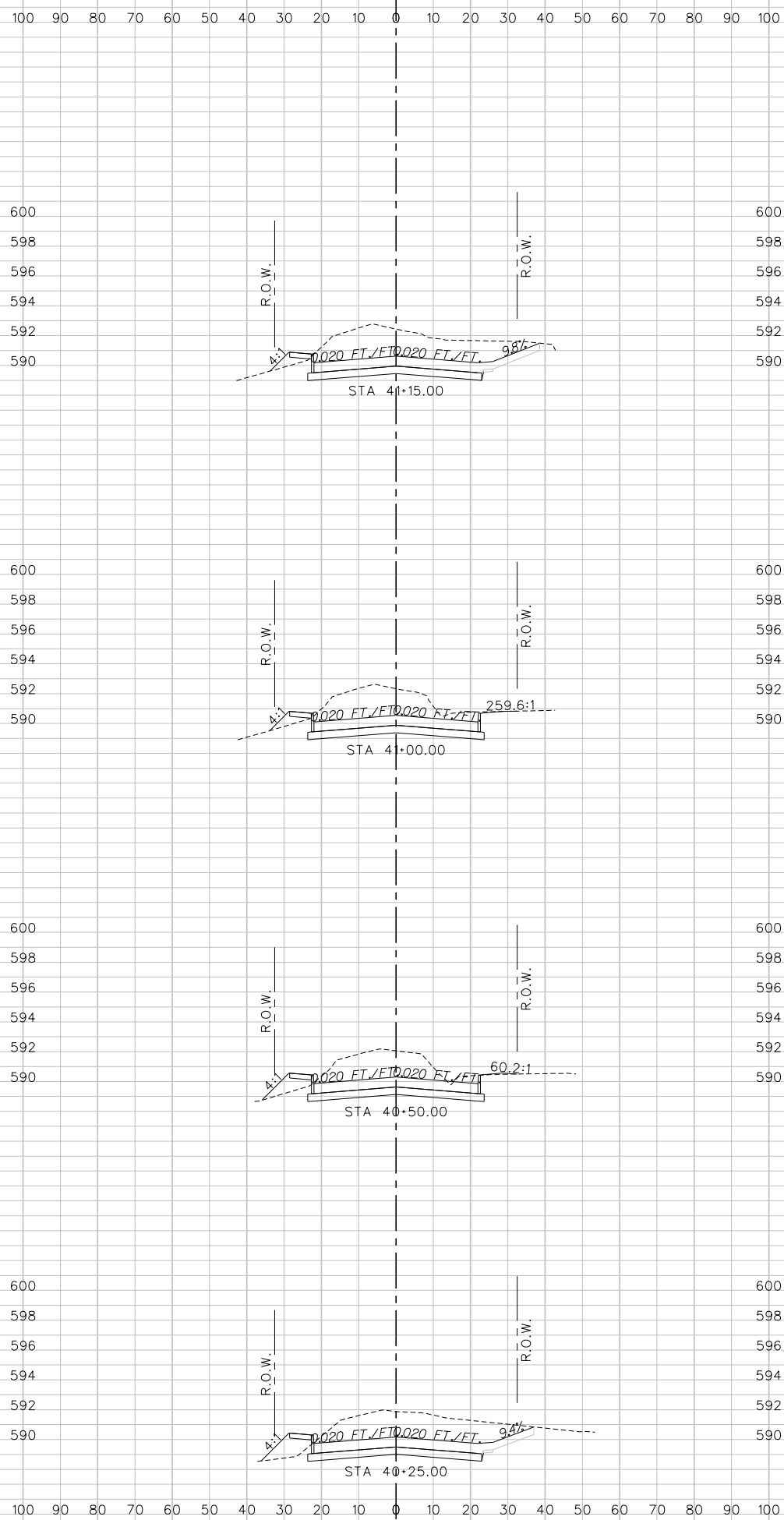
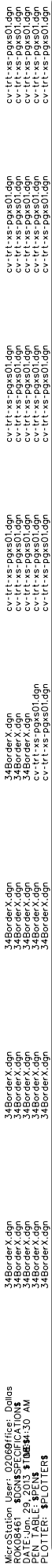
64 OF 79	XS-9	<table border="1"> <tr> <td>DATE</td> <td>5/15/12</td> </tr> <tr> <td>DESIGNED</td> <td>LMW</td> </tr> <tr> <td>DRAWN</td> <td>SLI</td> </tr> <tr> <td>REVISED</td> <td></td> </tr> <tr> <td>CHECKED</td> <td></td> </tr> </table>	DATE	5/15/12	DESIGNED	LMW	DRAWN	SLI	REVISED		CHECKED		<table border="1"> <tr> <td>FILE NAME</td> <td></td> </tr> </table>	FILE NAME		<table border="1"> <tr> <td>VERIFY SCALE</td> <td>Bar is one inch on original drawing, if not one inch on this sheet, adjust scale...</td> <td>1</td> </tr> </table>	VERIFY SCALE	Bar is one inch on original drawing, if not one inch on this sheet, adjust scale...	1	<table border="1"> <tr> <td>FILE NAME</td> <td></td> </tr> </table>	FILE NAME	
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4055 INTERNATIONAL PLAZA, SUITE 200
FORT WORTH, TEXAS 76109-4895
(817) 735-7300 RECORD DRAWINGS
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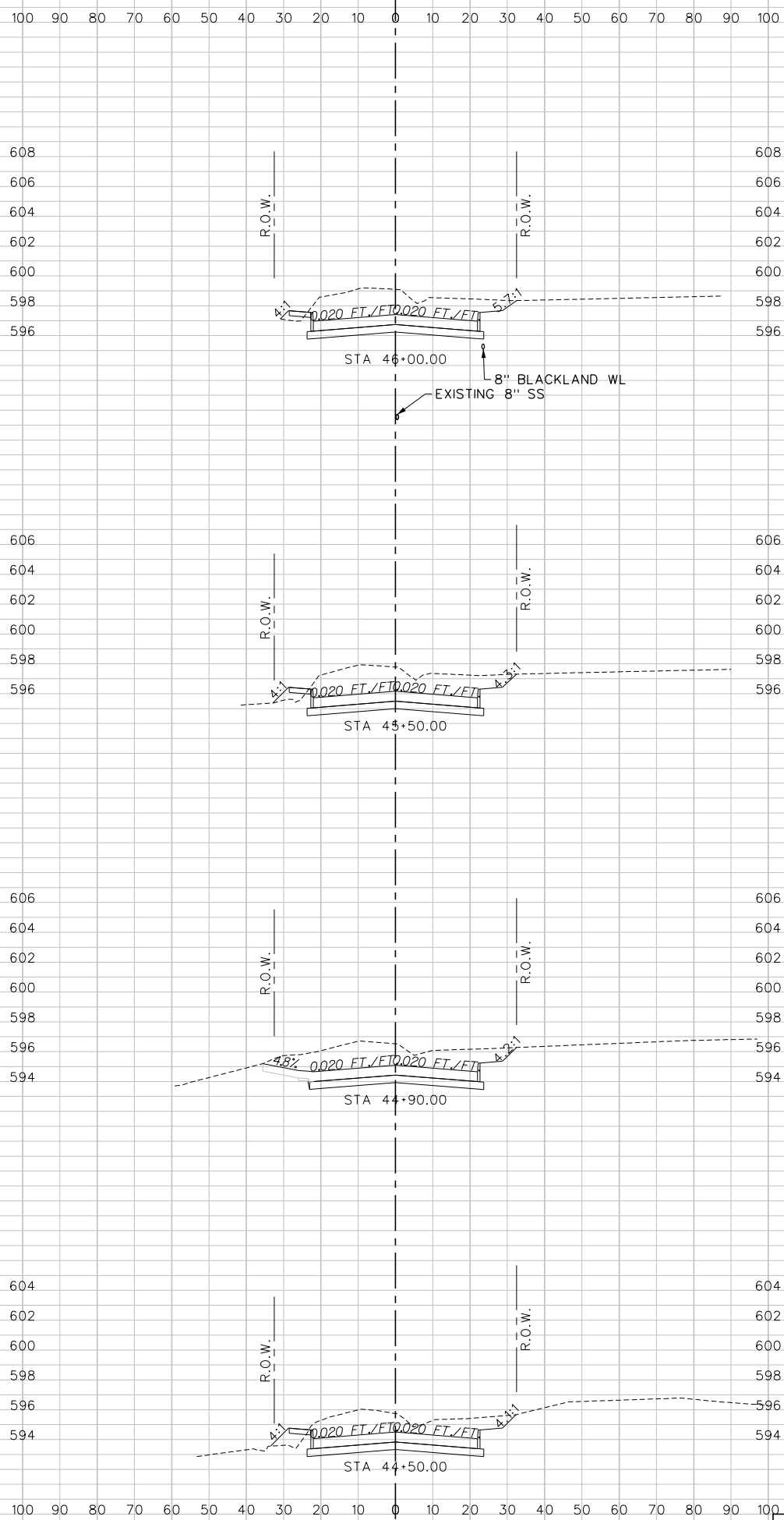
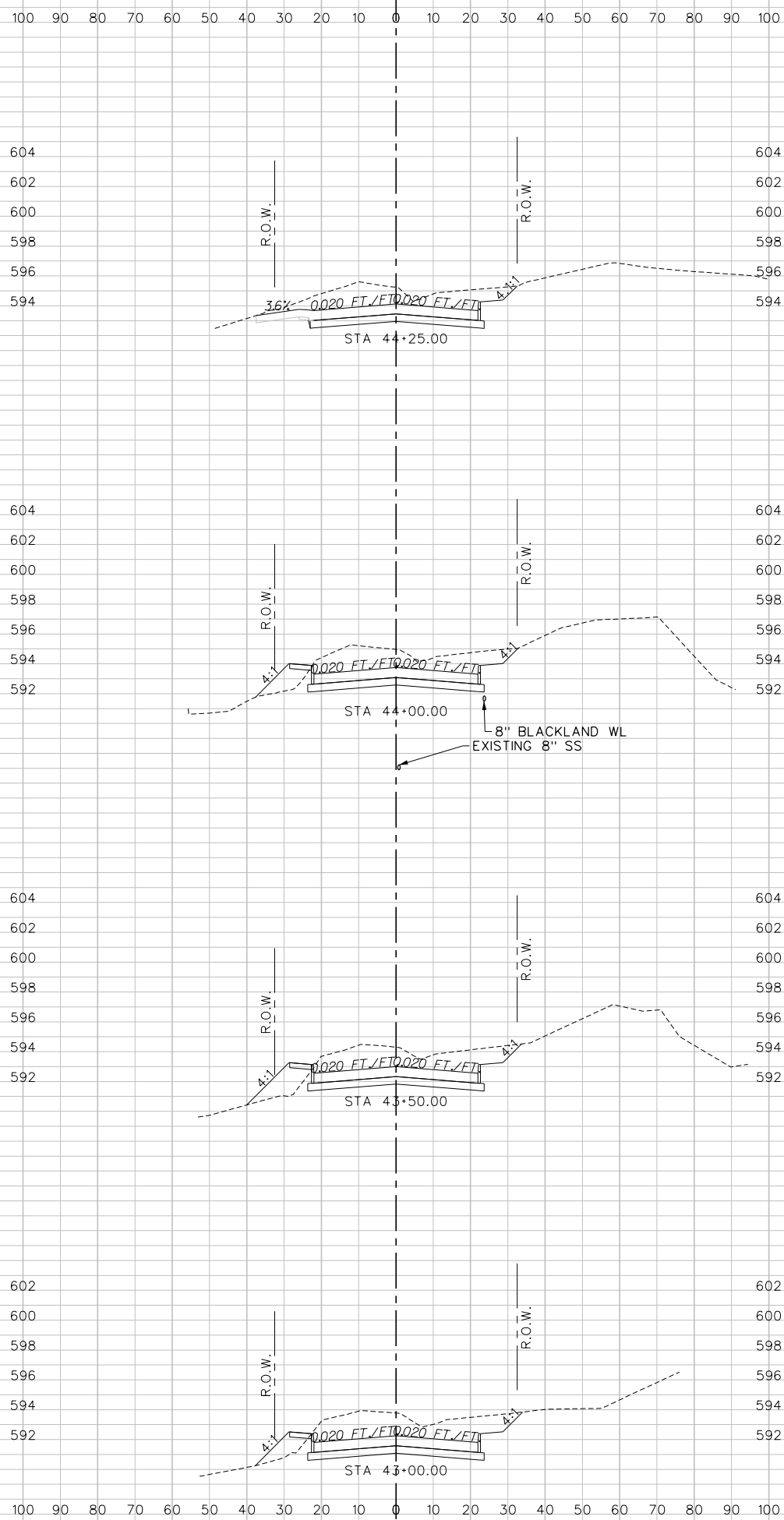
65 OF 97	XS-10	<table border="1"> <tr> <td>DATE</td> <td>5/15/12</td> </tr> <tr> <td>DESIGNED</td> <td>LWM</td> </tr> <tr> <td>DRAWN</td> <td>SLI</td> </tr> <tr> <td>REVISED</td> <td></td> </tr> <tr> <td>CHECKED</td> <td></td> </tr> <tr> <td>FILE NAME</td> <td></td> </tr> </table>	DATE	5/15/12	DESIGNED	LWM	DRAWN	SLI	REVISED		CHECKED		FILE NAME		VERIFY SCALE Bar is one inch on original drawing. If not one inch on this sheet, adjust scale... 1	STA 36+50 TO STA 40+00	CROSS SECTIONS	CIVIL	AIRPORT ROAD RECONSTRUCTION	 Freesee Nichols 17001 North Central Expressway, Suite 350, LB 31 Dallas, TX 75202-2501 Phone (214) 317-2200 Fax (214) 317-2201 Web - www.freesee.com	THE SEAL THIS ORIGINALLY APPEARED ON THIS DOCUMENT WAS AUTHORIZED BY Kevin R. Johnson, Professional Engineer, No. 24144, AT ALTERATION ON A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN VIOLATION OF THE TEXAS ENGINEERING PRACTICE ACT. Freesee and Nichols Inc. Texas Board of Professional Engineers Reg. No. 2144
DATE	5/15/12																				
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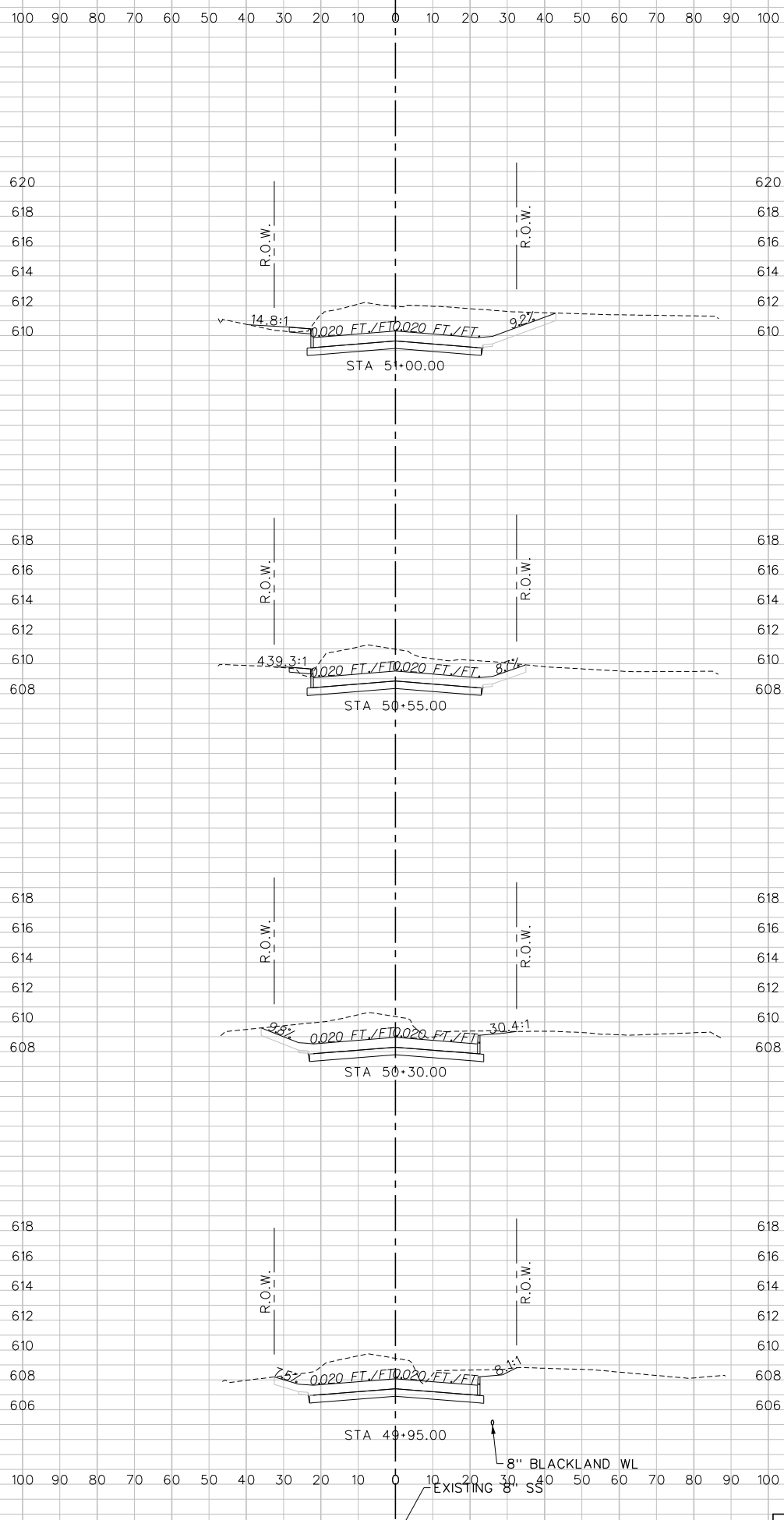
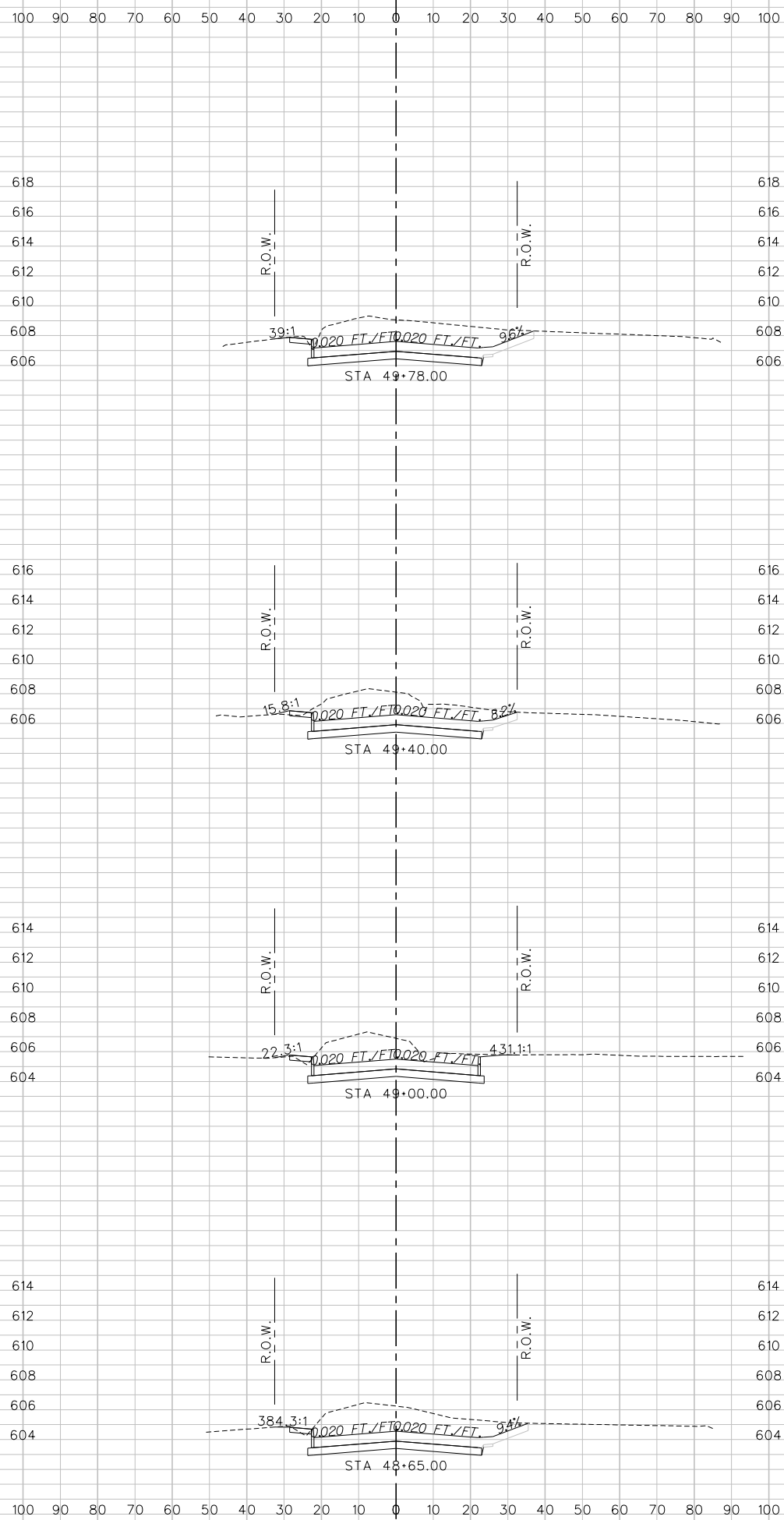
FREESE AND NICHOLS, INC.
4055 INTERNATIONAL PLAZA, SUITE 200
FORT WORTH, TEXAS 76109-4895
(817) 735-7300 RECORD DRAWINGS
PREPARED ON: 1/18/2013

NO. ISSUES _____		BY _____		DATE _____		F&N JOB NO. ROK08641		CITY OF ROCKWALL, TEXAS AIRPORT ROAD RECONSTRUCTION CROSS SECTIONS STA 40+25 TO STA 42+50	CIVIL FREESSE & NICHOLS 3101 N. Market Street, Suite 500, LB 51 Dallas, TX 75202-2001 Phone (972) 941-7200 Fax (972) 941-7201 Web - www.freesse.com	THE SEAL THAT ORIGINALLY APPEARED ON THIS DOCUMENT WAS Alvin Nichols, P.E. License No. 12467 TEXAS NSP 93892 ON DATE: 2/7/11 ALTERATION ON A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. Freesse and Nichols, Inc. Texas Board of Professional Engineers Reg. No. 2144
DESIGNED LMMW		DATE 5/15/12		DATE 5/15/12		DATE 5/15/12				
DRAWN SLI		DATE _____		DATE _____		DATE _____				
REVISED _____		DATE _____		DATE _____		DATE _____				
CHECKED _____		DATE _____		DATE _____		DATE _____				
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PREPARED ON: 1/18/2013

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NICHOLS**
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1701 N. Market Street, Suite 500, LB 5
Dallas, TX 75202-2001
Phone - (214) 217-2200
Fax - (214) 217-2201
Web - www.freese.com

THE SEAL THAT ORIGINALLY APPEARED ON THIS DOCUMENT WAS AUTHORIZED BY Kevin R. Johnson, TEXAS NO: 93882, ON DATE: 2/7/11 ALTERATION ON A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

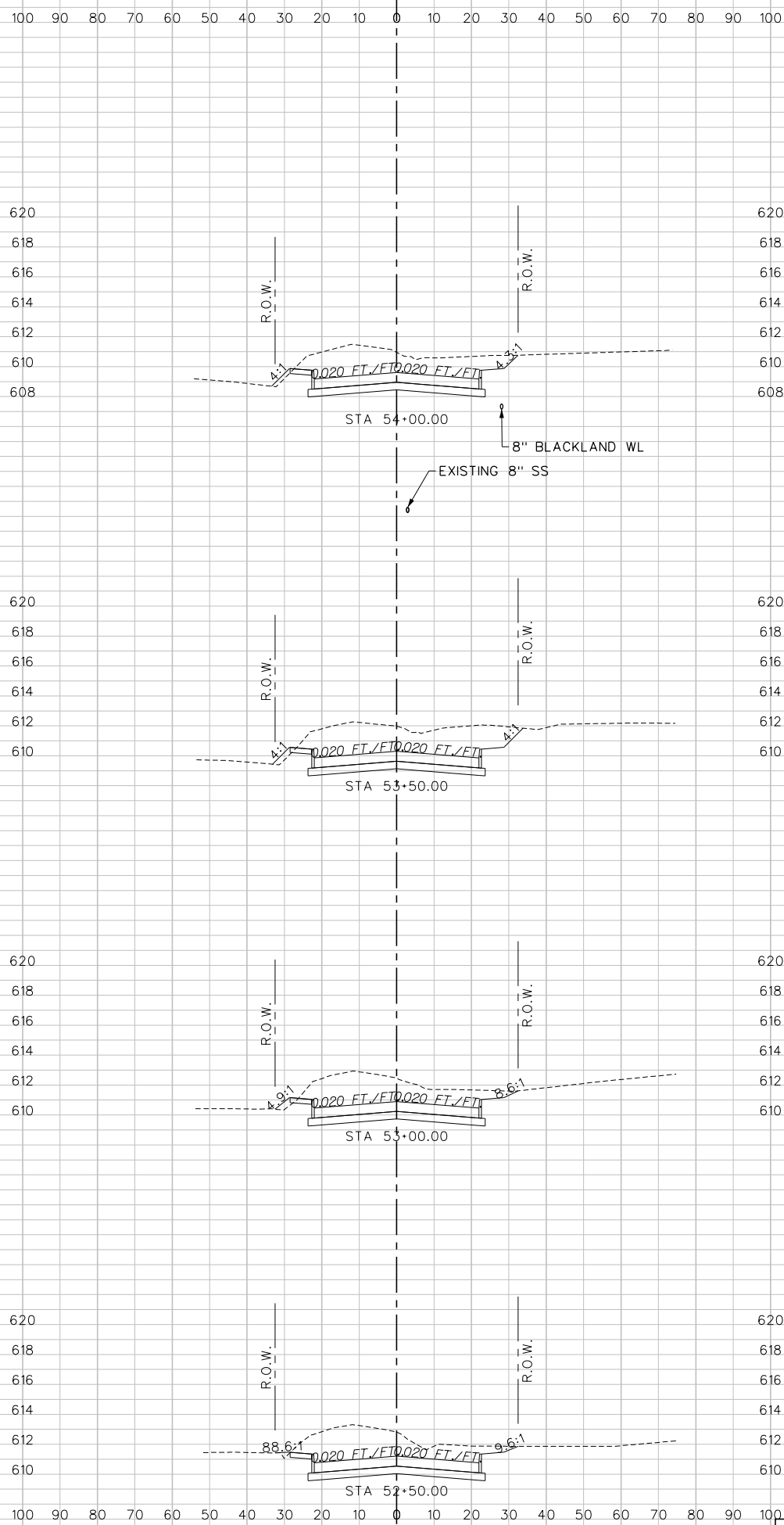
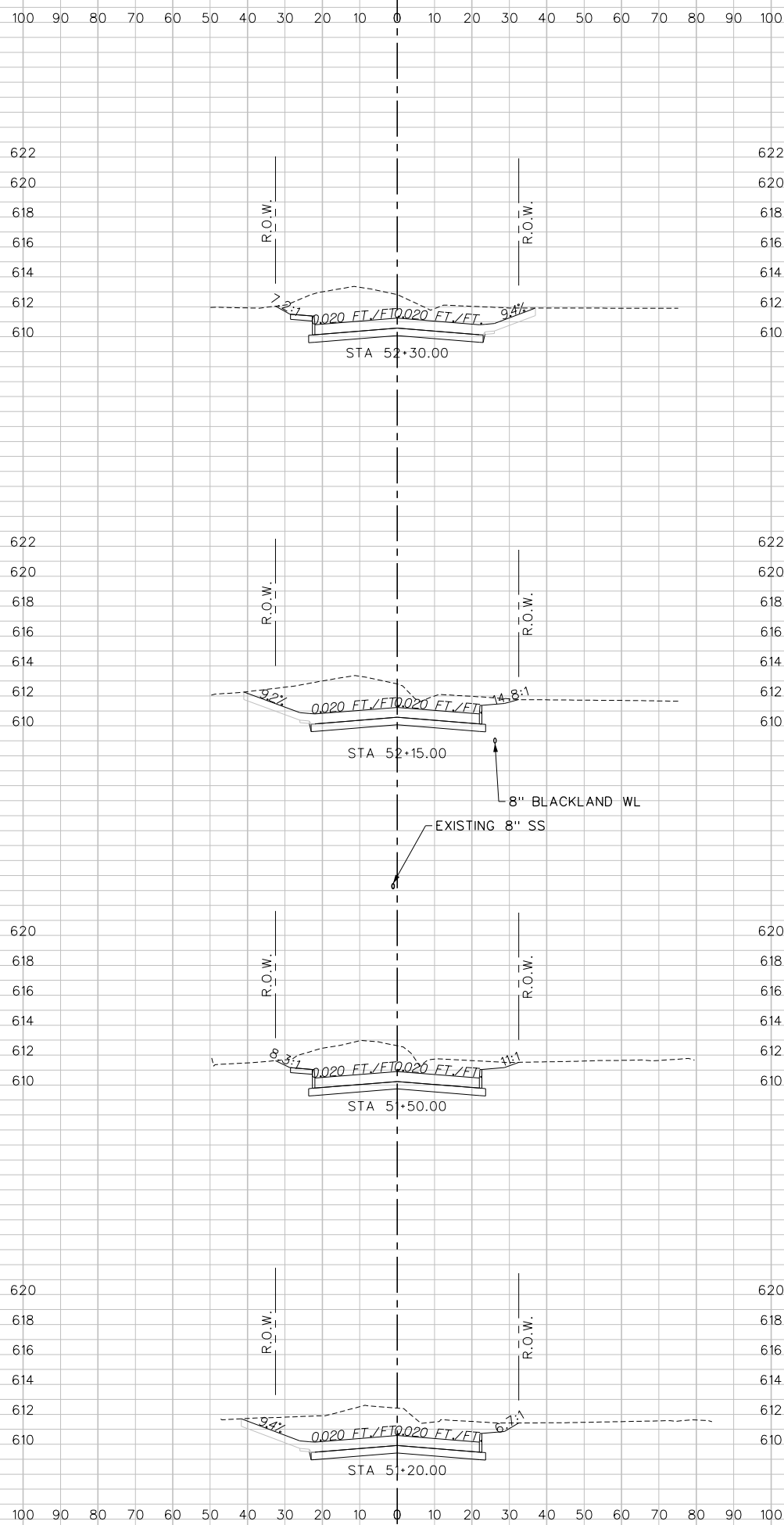
Freese and Nichols, Inc. Texas Board of Professional
Engineers Reg. No. 2144

CITY OF ROCKWALL, TEXAS
AIRPORT ROAD RECONSTRUCTION
CIVIL
CROSS SECTIONS
STA 48+65 TO STA 51+00

NO.	ISSUES	BY	DATE	FAN JOB NO.
				ROK08641
			DATE	5/15/12
			DESIGNED	LMW
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XS-14

69 OF 79

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FREESE AND NICHOLS, INC.
4055 INTERNATIONAL PLAZA, SUITE 200
FORT WORTH, TEXAS 76109-4895
(817) 735-7300 RECORD DRAWINGS
PREPARED ON: 1/18/2013

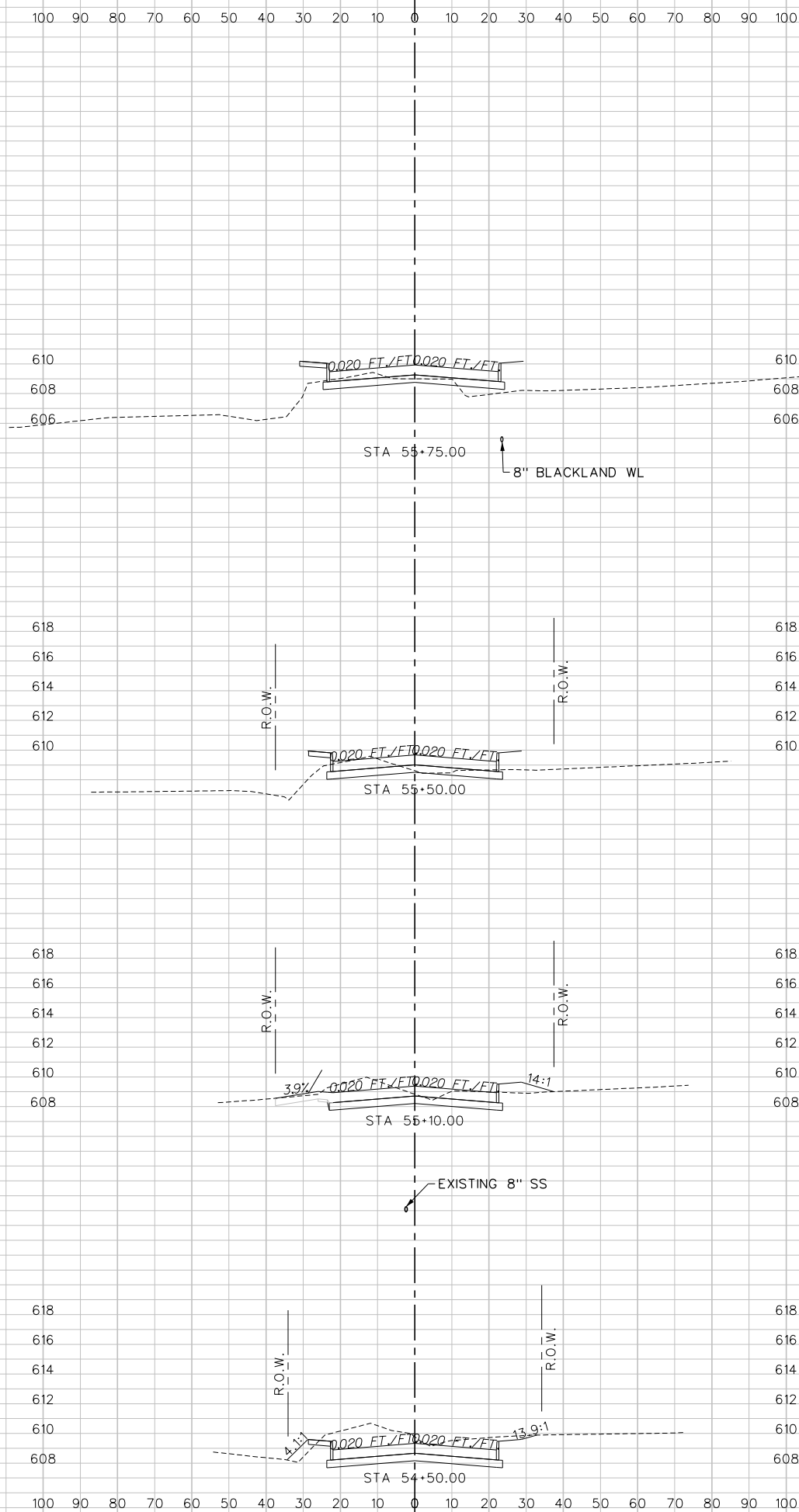
**FREESE
NICHOLS**
g z

1701 N. Market Street, Suite 500, LB 5
Dallas,
TX 75202-2001
Phone - (214) 217-2300
Fax - (214) 217-2201
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CIVIL
CROSS SECTIONS
STA 51+20 TO STA 54+00

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Engineers Reg. No. 2144

[illegible]

NOTE:
STA 55+50 TO END
SEE SHEET GR-2
FOR GRADING DETAILS

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PREPARED ON: 1/18/2013

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CITY OF ROCKWALL, TEXAS
AIRPORT ROAD RECONSTRUCTION

CIVIL CROSS SECTIONS
STA 54+50 TO STA 55+75

NO. ISSUES	BY	DATE	F&M JOB NO.
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XS-16

71 OF 79

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NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN
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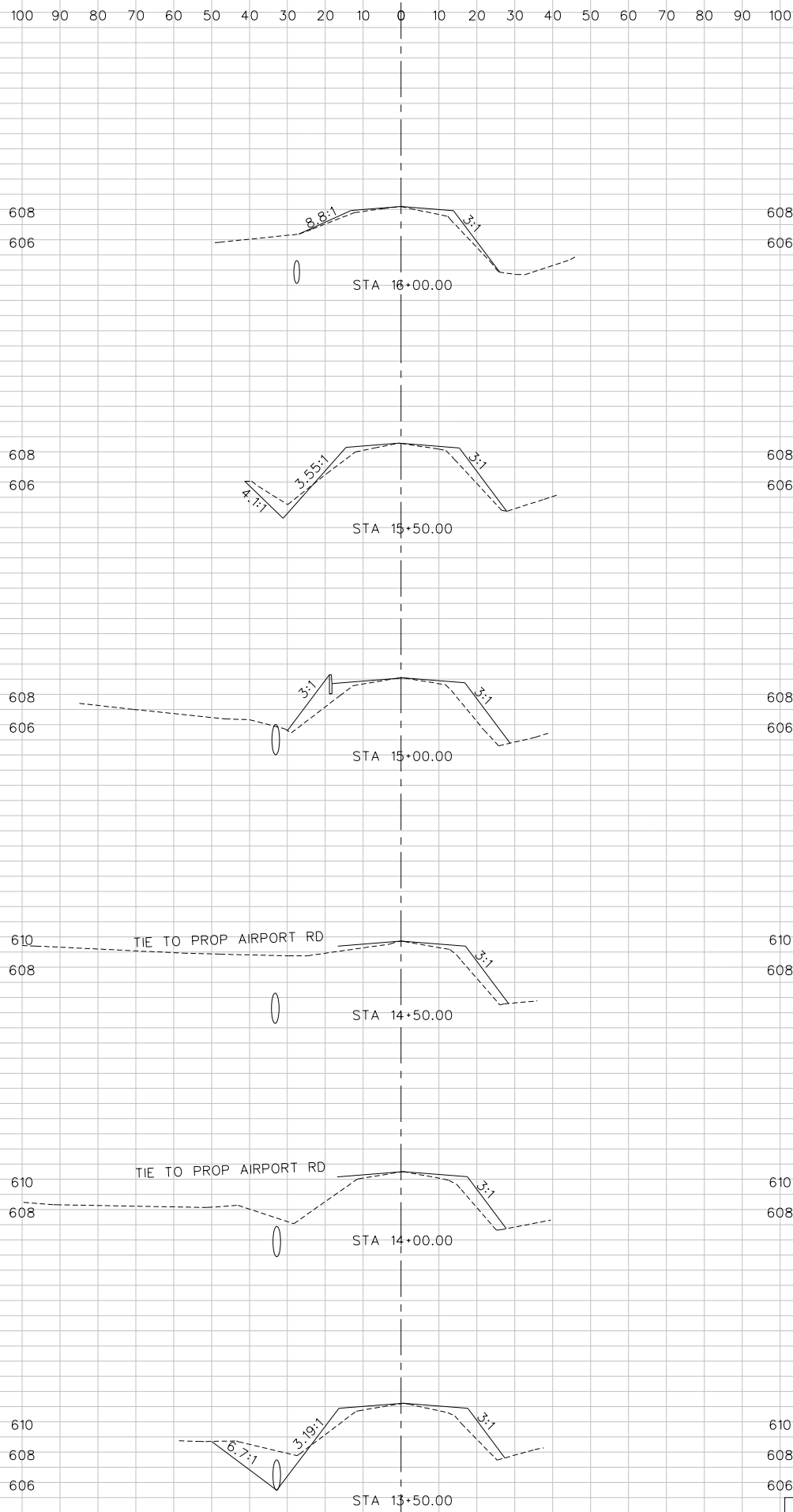
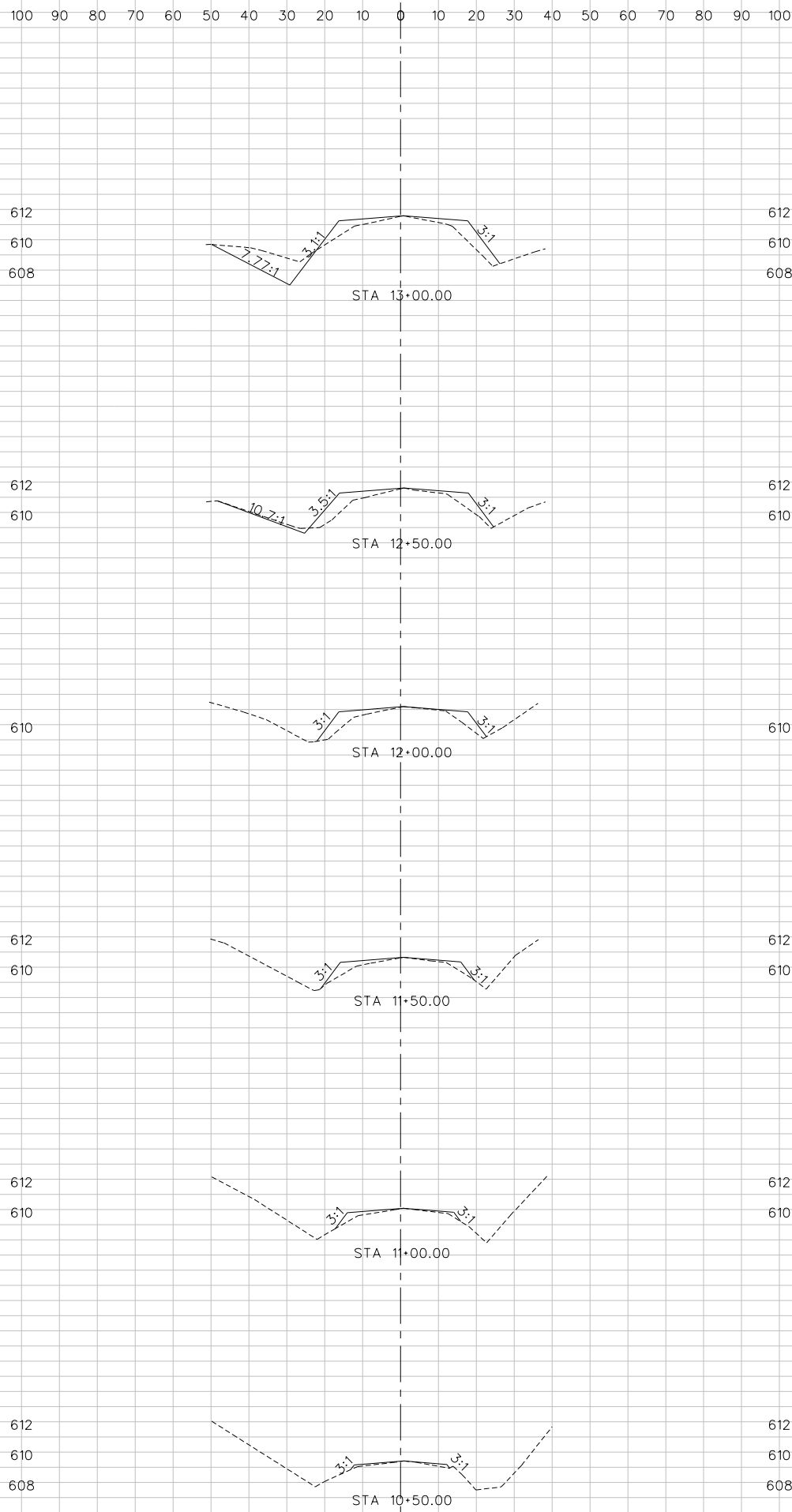
Engineers Reg. No. 2144

FREESE
NICHOLS
and
Associates, Inc.

17701 N. Market Street, Suite 500, LB 51
Dallas, TX 75202-2001
Phone - (214) 217-2200
Fax - (214) 217-2201
Web - www.freee.com

FM 549 CROSS SECTIONS
STA 10+50 TO STA 16+00

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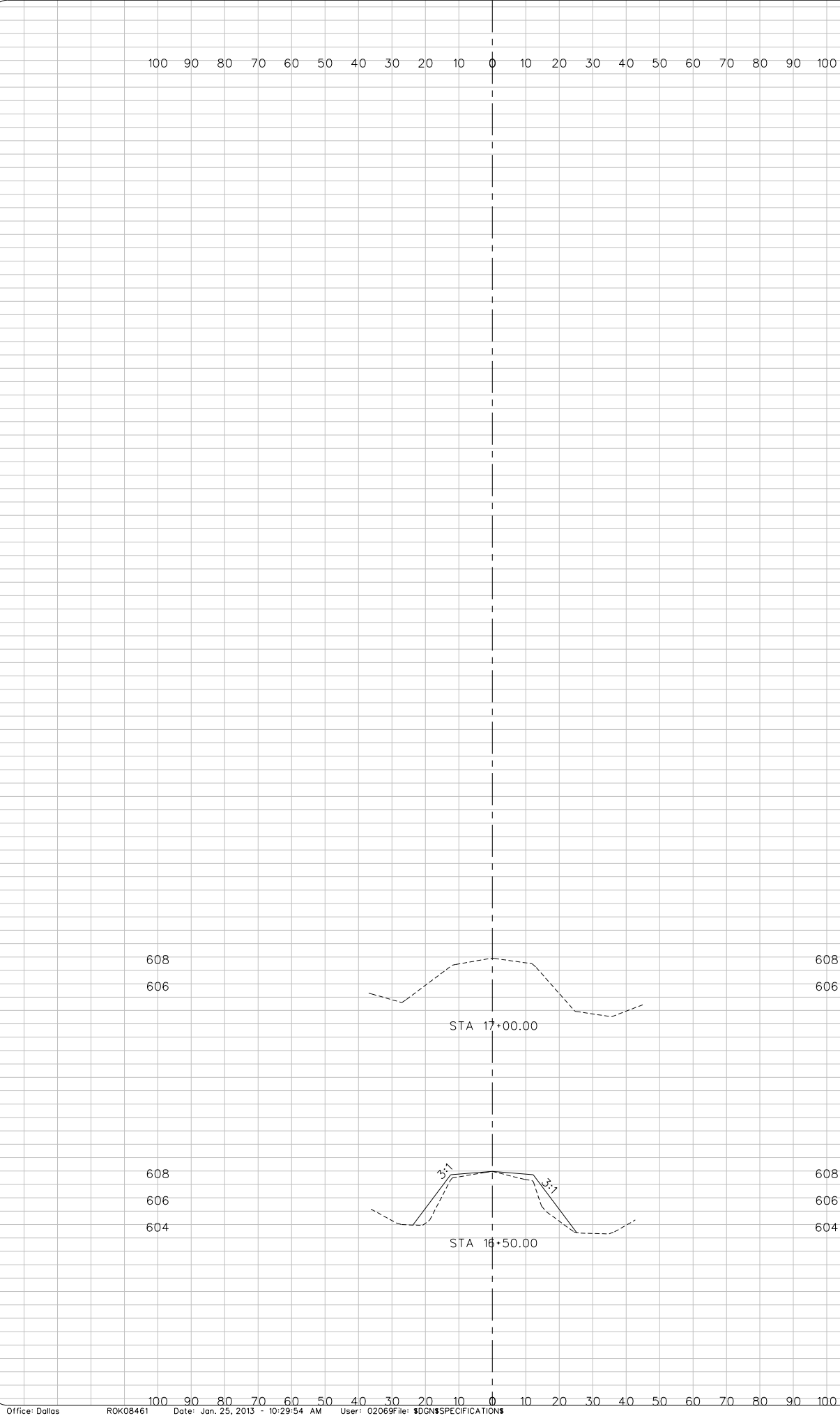
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FREESE AND NICHOLS

1701 N. Market Street, Suite 500, LB 51
Dallas, TX 75201
Phone - (214) 217-2200
Fax - (214) 217-2201
Web - www.freese.com

CITY OF ROCKWALL, TEXAS

AIRPORT ROAD RECONSTRUCTION

FM 549 CROSS SECTIONS

STA 16+50 TO STA 17+00

NO. ISSUES

BY

DATE

FIN JOB NO.
ROK08641

DATE 5/15/12

DESIGNED LMW

DRAWN SLI

REVISED

CHECKED

FILE NAME

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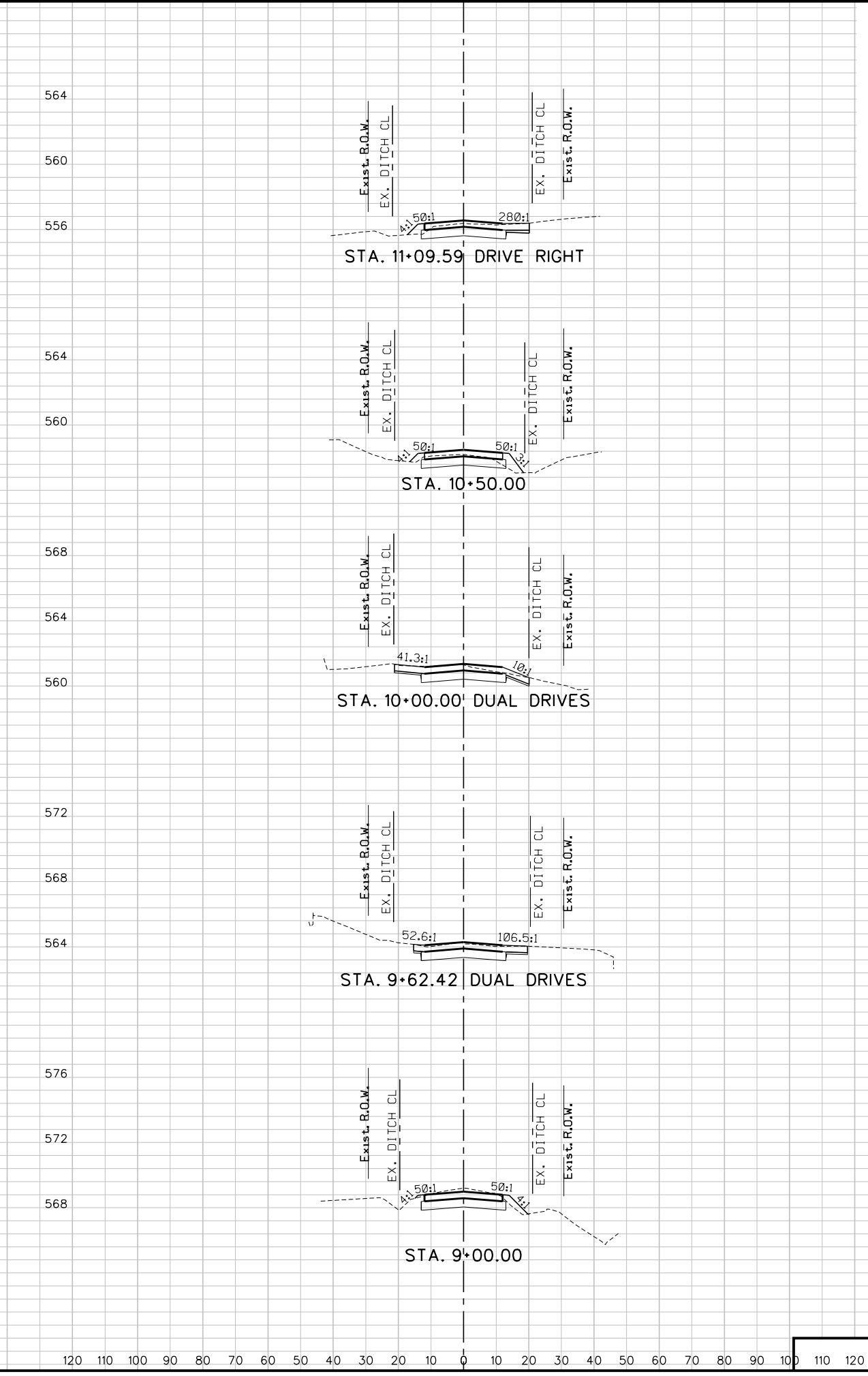
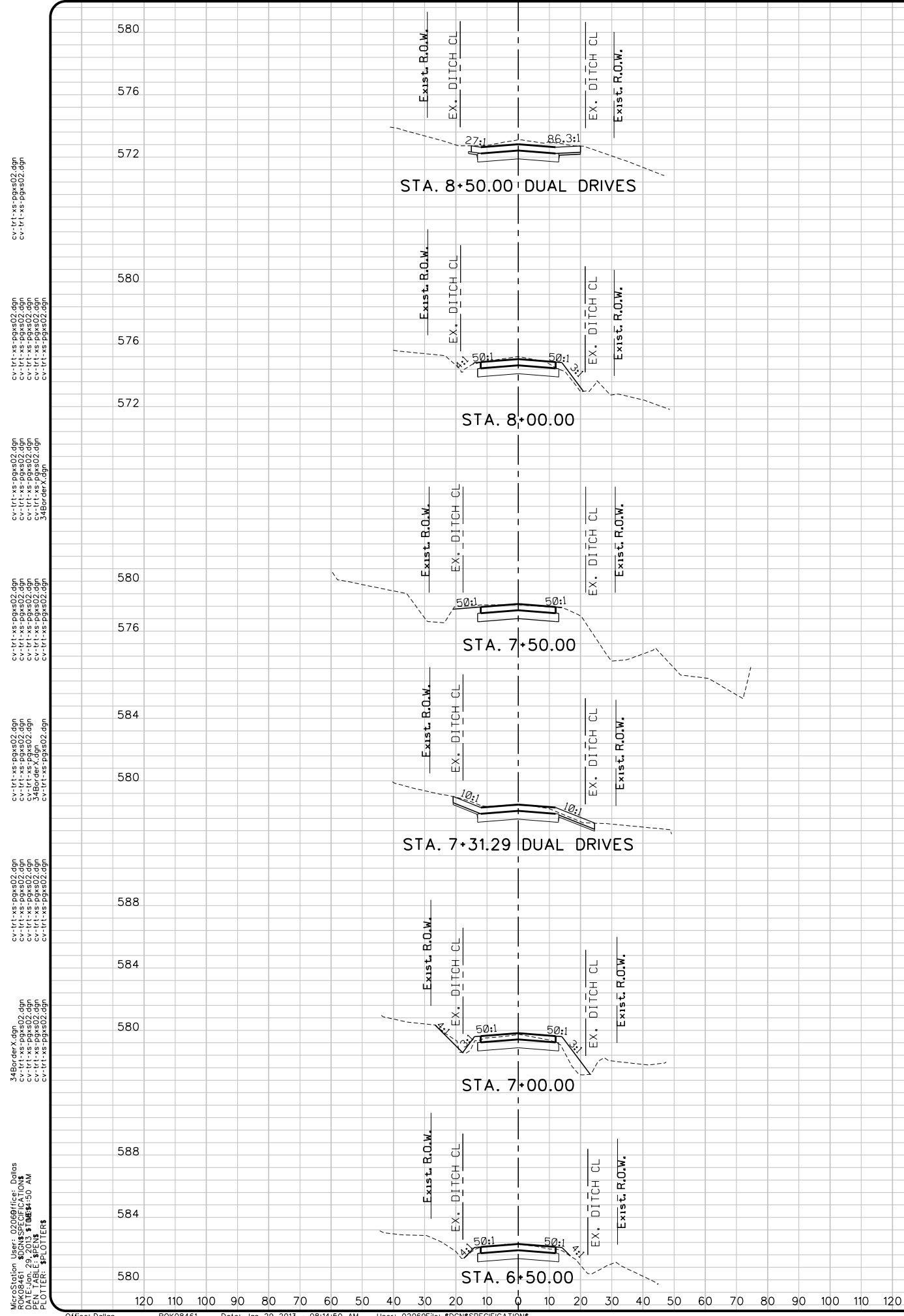
XS-18

SEQ. 73 OF 79

THE SEAL, TEXT, ORIGINALLY APPEARED ON THIS DOCUMENT WAS
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TEXAS NO. 93882 ON DATE: 2/7/11
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4055 INTERNATIONAL PLAZA, SUITE 200
DALLAS, TEXAS 75244-3800
(817) 735-7300 RECORD DRAWINGS
PREPARED ON:
2/7/2013

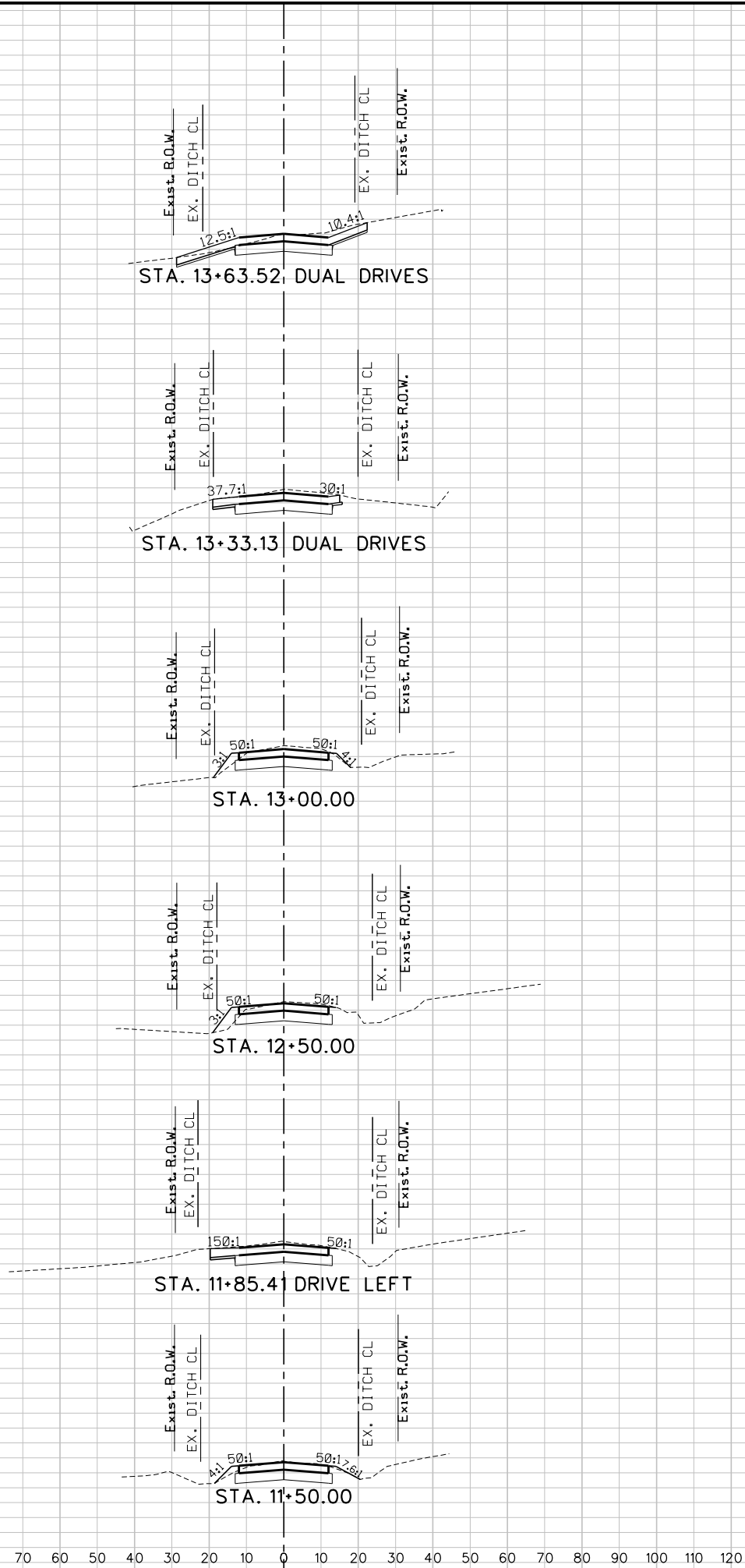
Freeze and Nichols, Inc. Texas Board of Professional
Engineers Reg. No. 2144



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FREESE AND NICHOLS, INC.
4055 INTERNATIONAL PLAZA, SUITE 200
FORT WORTH, TEXAS 76109-4895
(817) 735-7300 RECORD DRAWINGS

PREPARED ON: 1/18/2013

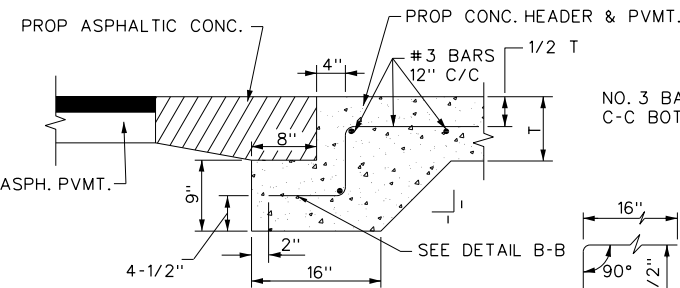


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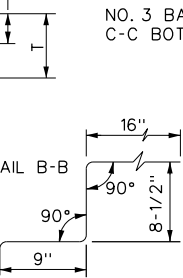
FREESE AND NICHOLS, INC.
4055 INTERNATIONAL PLAZA, SUITE 200
FORT WORTH, TEXAS 76109-4895
(817) 735-7300 RECORD DRAWINGS
PREPARED ON: 1/18/2013

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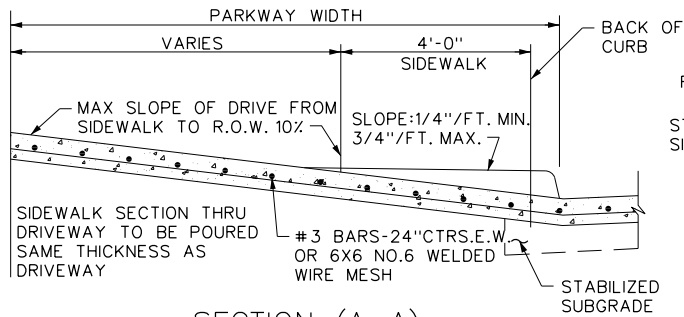


7 STREET HEADER
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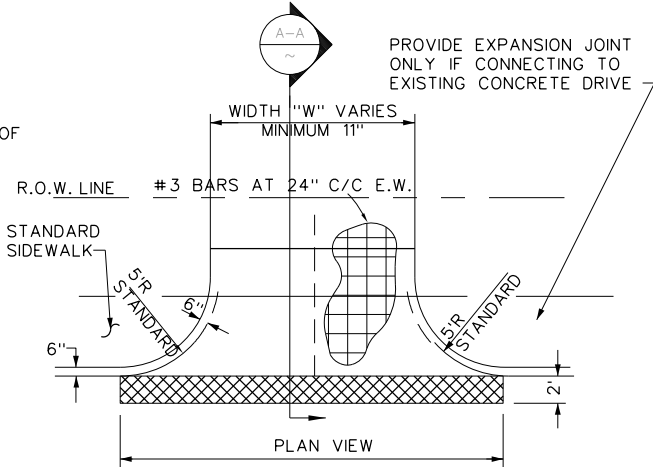


8 MONOLITHIC CURB DETAIL
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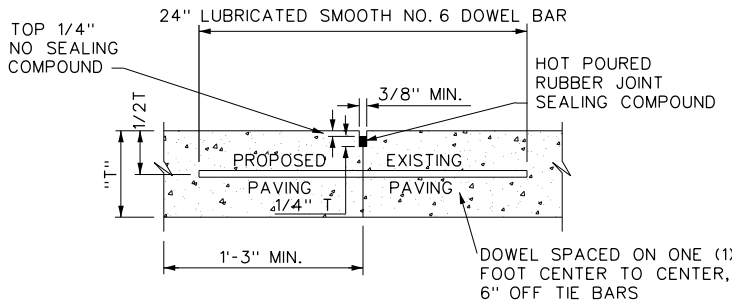
4 DRIVEWAY DETAILS
NOT TO SCALE



SECTION (A-A)



5 TRVERSE EXPANSION JOINT
NOT TO SCALE



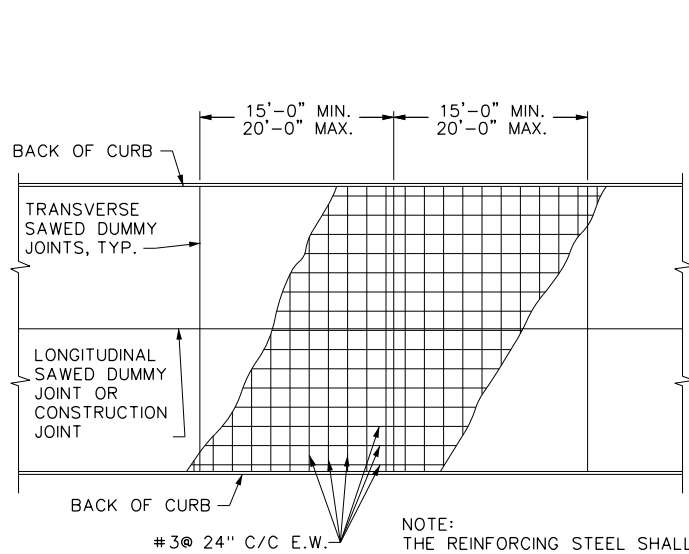
9 LONGITUDINAL BUTT JOINT
NOT TO SCALE

NOTES:

T=PAVEMENT THICKNESS

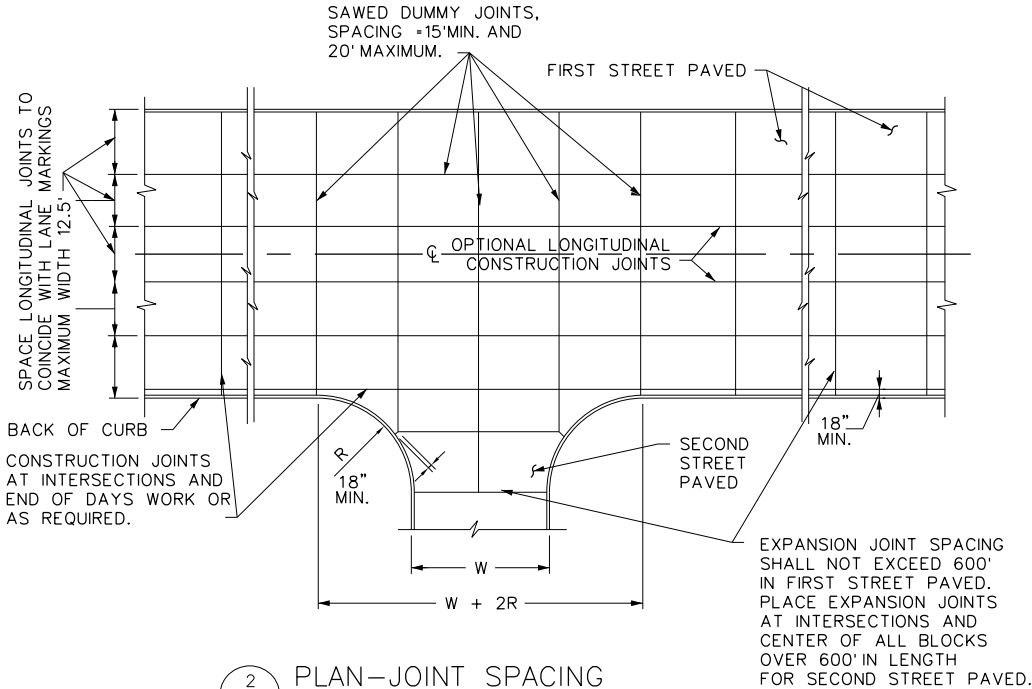
1. LONGITUDINAL BUTT CONSTRUCTION MAY BE UTILIZED IN PLACE OF LONGITUDINAL HINGED (KEYWAY) JOINT AT CONTRACTORS OPTION.

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



1 PLAN OF STEEL LAYOUT
NOT TO SCALE

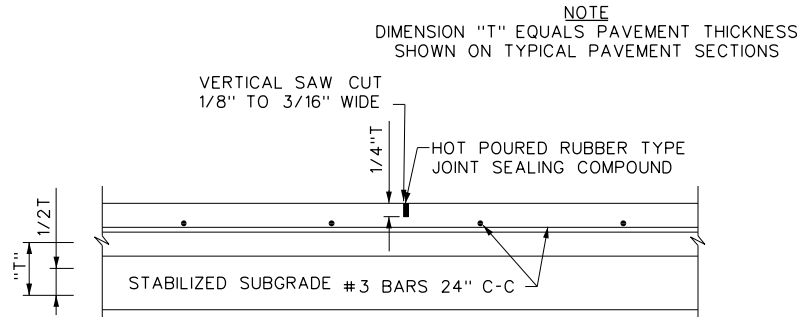
NOTE:
THE REINFORCING STEEL SHALL EXTEND THROUGH BOTH LONGITUDINAL DUMMY AND TRANSVERSE CONSTRUCTION JOINTS LAP BAR 40 DIAMETERS AND TIE.



2 PLAN-JOINT SPACING
NOT TO SCALE

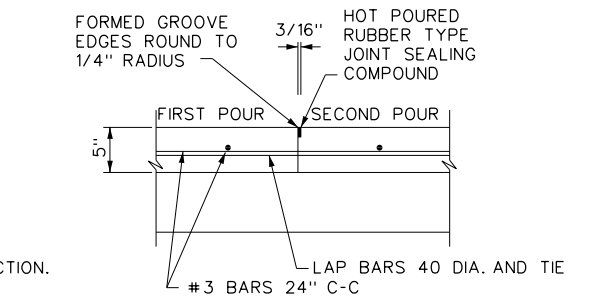
GENERAL NOTES

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 SAWED DUMMY JOINT
NOT TO SCALE

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



6 LONGITUDINAL CONSTRUCTION JOINT
NOT TO SCALE

PLAN:

MEDIAN PAVING SHALL EXTEND TO A POINT WHERE MEDIAN IS 6' WIDE. IF MEDIAN IS 6' WIDE, PAVING SHALL EXTEND 15' FROM NOSE. FOR MEDIANS WIDER THAN 6', PAVING SHALL EXTEND 10' FROM NOSE. ALL DISTANCES ARE MINIMUM.

JOINT SPACING NOTES:

1. THE CONTRACTOR SHALL SUBMIT A DETAILED PAVEMENT JOINT PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT OF PAVEMENT ON THE SITE. ANY DEVIATIONS FROM THE FOLLOWING GUIDELINES MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
2. EXPANSION JOINTS SHALL BE AT A MAXIMUM SPACING OF 300 FEET AND AT PC, PT, HORIZONTAL AND VERTICAL ANGLES GREATER THEN 53 3/64, AND INTERSECTIONS.
3. LONGITUDINAL AND TRANSVERSE SAW CUT JOINTS SHALL BE AT A MAXIMUM OF 15' INTERVALS.
4. SPACING VARIATIONS SHALL BE MADE AT BLOCKOUTS, CONSTRUCTION JOINTS AND STREET INTERSECTIONS TO LINE UP WITH EXISTING PAVING JOINTS AS DIRECTED BY THE CITY. ALL JOINTS WILL BE SAWED NO LATER THAN 12 HOURS AFTER THE PLACEMENT OF THE PAVEMENT AS DIRECTED BY THE CITY.

This Record Drawing is a combination of the project drawings and the information furnished by the contractor reflecting changes in the project. It is the responsibility of the contractor to ensure that all drawings are on file at the office of the engineer. **FREASE AND NICHOLS, INC.** 4055 INTERNATIONAL PLAZA, SUITE 200 DALLAS, TEXAS 75202-2001 (817) 735-7300 RECORD DRAWINGS PREPARED ON: 3/13/2013

THE SEAL THAT ORIGINALLY APPEARED ON THIS DOCUMENT WAS AUTHORIZED BY Kevia R. Johnson ON DATE: 2/7/11 TEXAS NO: 93882. ANY CHANGES TO THE SEAL OR THE NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. Freese and Nichols, Inc. Texas Board of Professional Engineers Reg. No. 2144

FREASE AND NICHOLS
1701 N. Market Street, Suite 500, LB 51
Dallas, TX 75202-2001
Tel - (214) 217-2200
Fax - (214) 217-2201
Web - www.freese.com

AIRPORT ROAD RECONSTRUCTION

CITY OF ROCKWALL, TEXAS

CIVIL

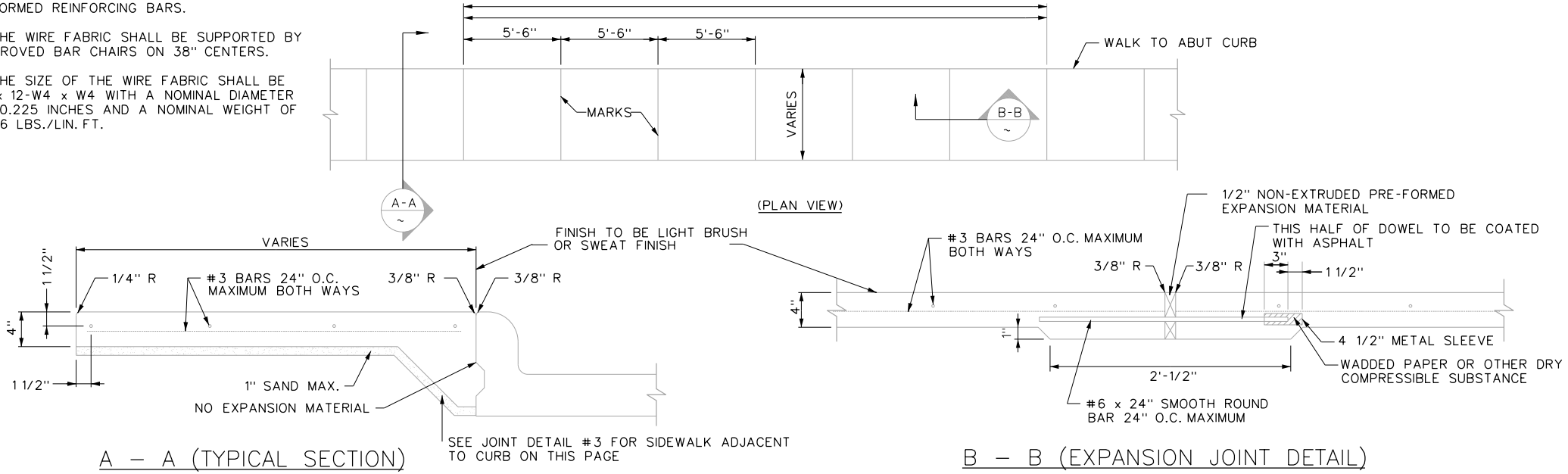
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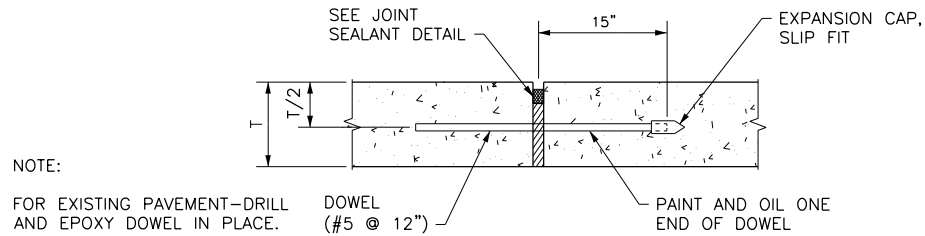
NOTES:

1. APPROVED WELDED WIRE FABRIC IN SHEETS MAY BE USED IN LIEU OF DEFORMED REINFORCING BARS.
2. THE WIRE FABRIC SHALL BE SUPPORTED BY APPROVED BAR CHAIRS ON 38" CENTERS.
3. THE SIZE OF THE WIRE FABRIC SHALL BE 12 x 12-W4 x W4 WITH A NOMINAL DIAMETER OF 0.225 INCHES AND A NOMINAL WEIGHT OF 0.136 LBS./LIN. FT.

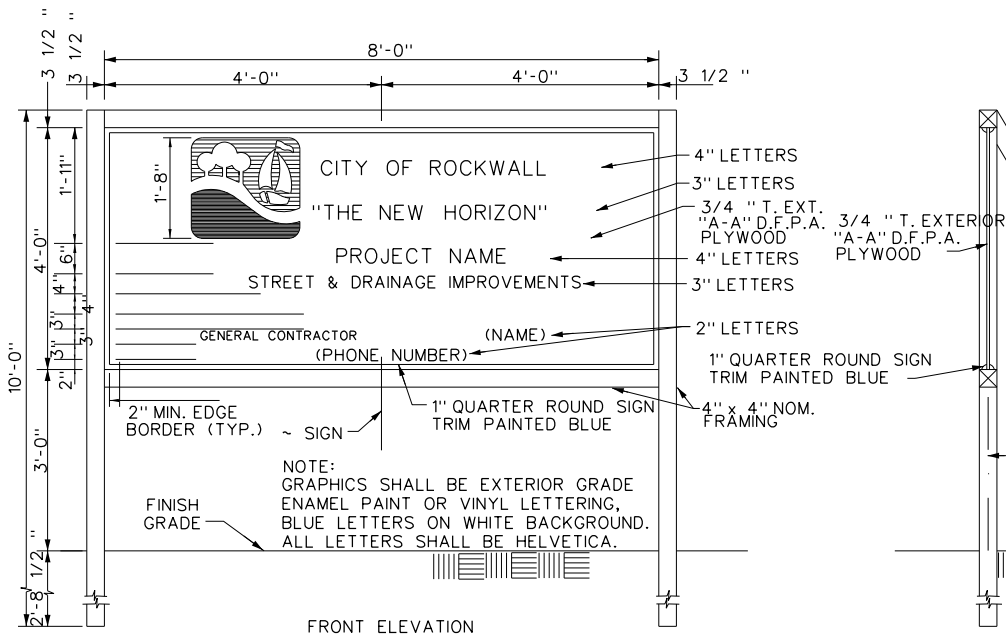
1/2" DOWEL EXPANSION JOINT WITH EXPANSION JOINT FILLER EVERY 117' (MAX.) AND AT ALL RADII POINTS



1 SIDEWALK ADJACENT TO CURB DETAILS
NOT TO SCALE

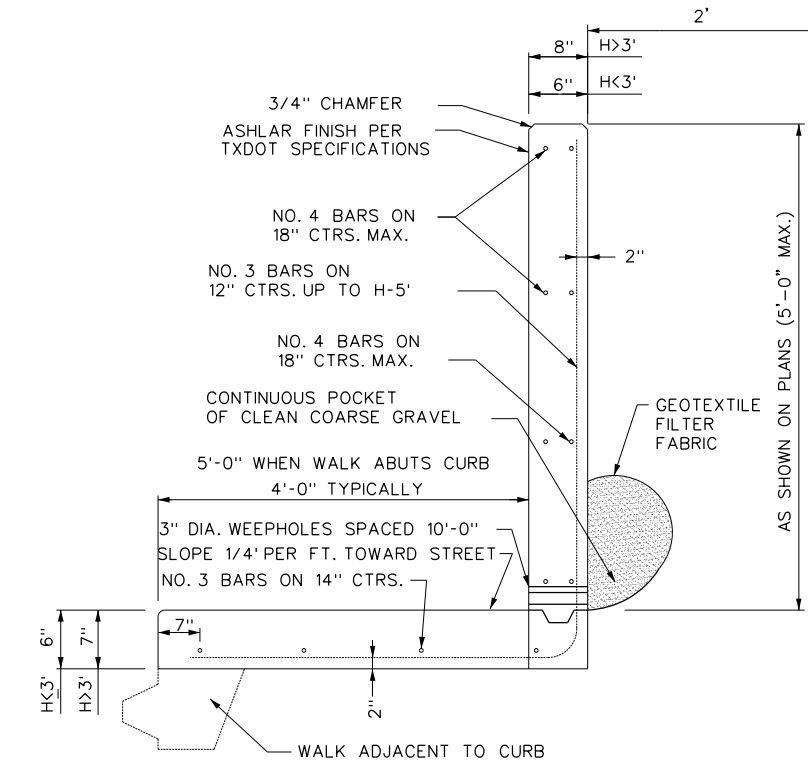


3 DOWEL DETAIL
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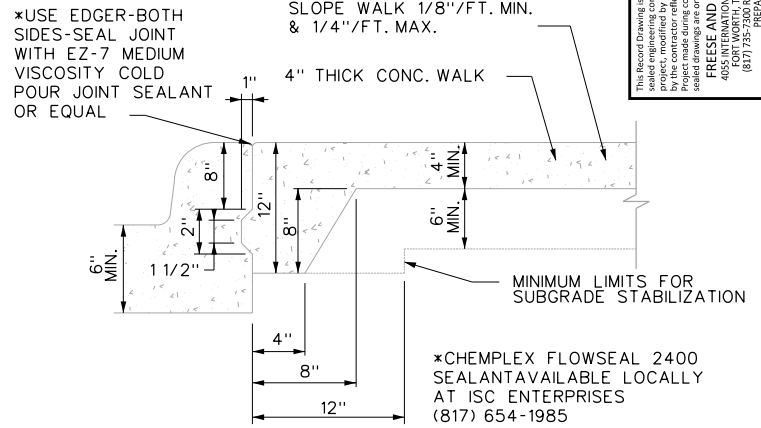


4 CONSTRUCTION SIGN
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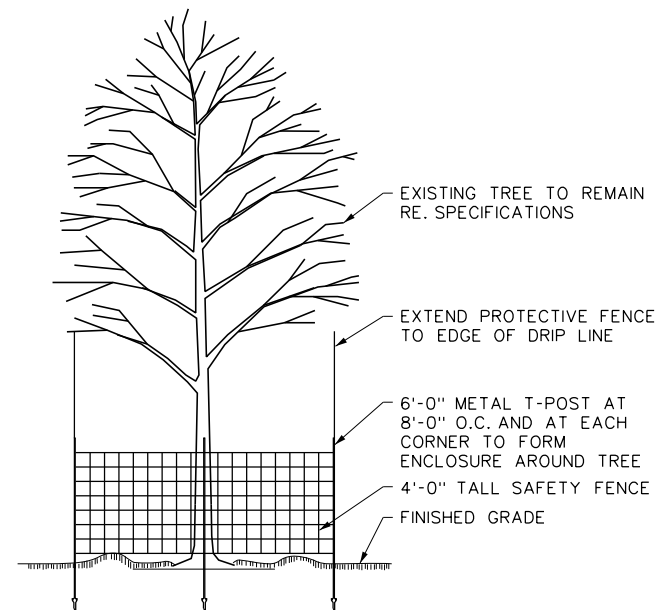
SIDE ELEVATION/SECTION



5 TYPE 6 RETAINING WALL
COMBINATION CANTILEVER & WALK, WALL GREATER THAN H-5'-0" REQUIRES SPECIAL ENGINEERING ANALYSIS



2 JOINT DETAIL FOR SIDEWALK ADJACENT TO CURB
NOT TO SCALE



6 TREE PROTECTION DETAIL
NOT TO SCALE

This Record Drawing is a combination of the original and revised drawings. The original drawing was prepared by the contractor and the revised drawing was prepared by the engineer. The original drawing was prepared by the contractor and the revised drawing was prepared by the engineer. The original drawing was prepared by the contractor and the revised drawing was prepared by the engineer.

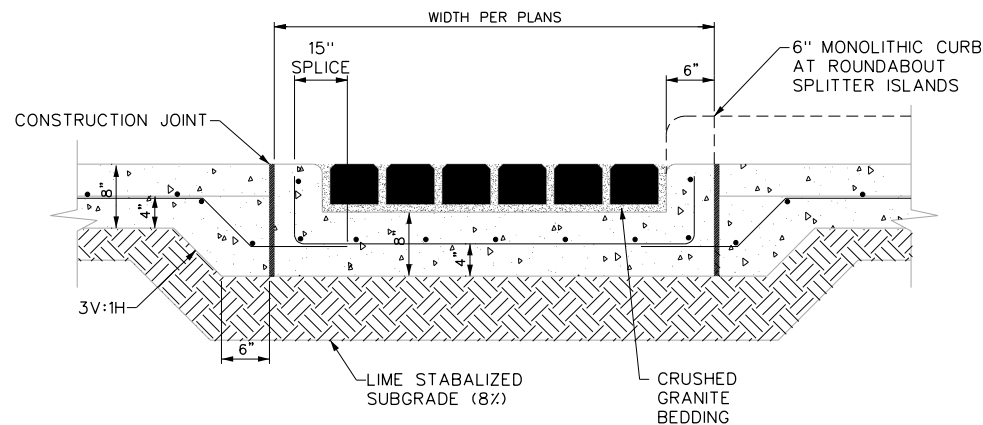
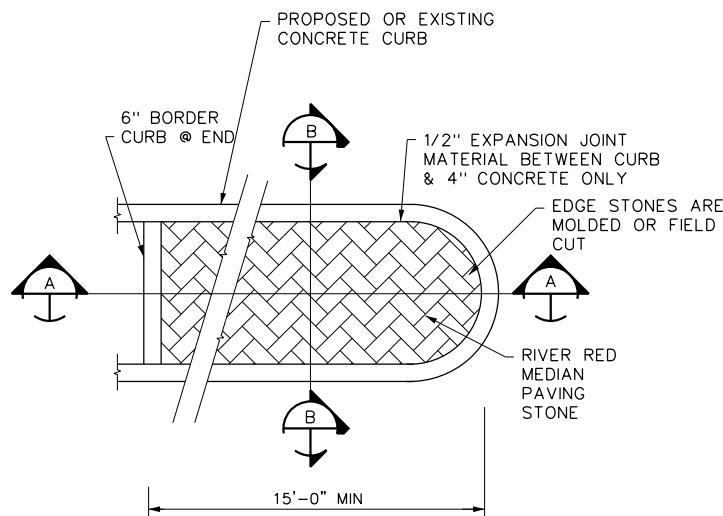
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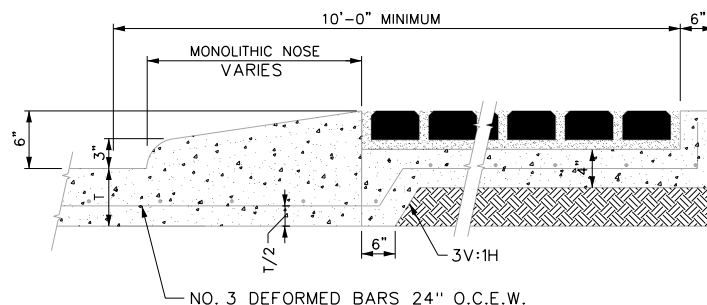
CITY OF ROCKWALL, TEXAS
AIRPORT ROAD RECONSTRUCTION
CIVIL
MISC DETAILS

NO. ISSUE	BY	DATE	FRN JOB NO.	ROK08461
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			DRAWN	SLI
			REVIEWED	
			CHECKED	
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			SHEET	DT-2
			SEQ.	75 OF 79

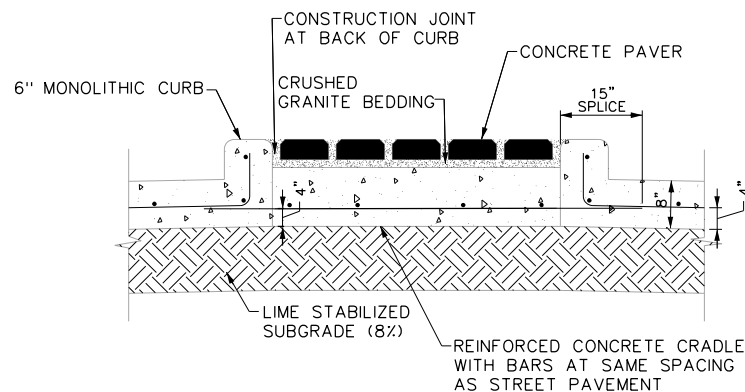
PAVING STONE SHALL BE PAVESTONE.
DECORA STONE RIVER RED COLOR.



2 CROSSWALK ON CONCRETE CRADLE DETAIL
NOT TO SCALE



TYPICAL CROSS SECTION "A-A"



TYPICAL CROSS SECTION "B-B"

7. A JOINT STABILIZING SEALER SHALL BE APPLIED TO PAVERS. THE SEALER SHALL BE SUREBOND SB-1300-1370, OR APPROVED EQUAL.

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

FRESE AND NICHOLS, INC.
4055 INTERNATIONAL PLACE, SUITE 200
FORT WORTH, TEXAS 76109-4895
(817) 735-7300 RECORD DRAWINGS
PREPARED ON:

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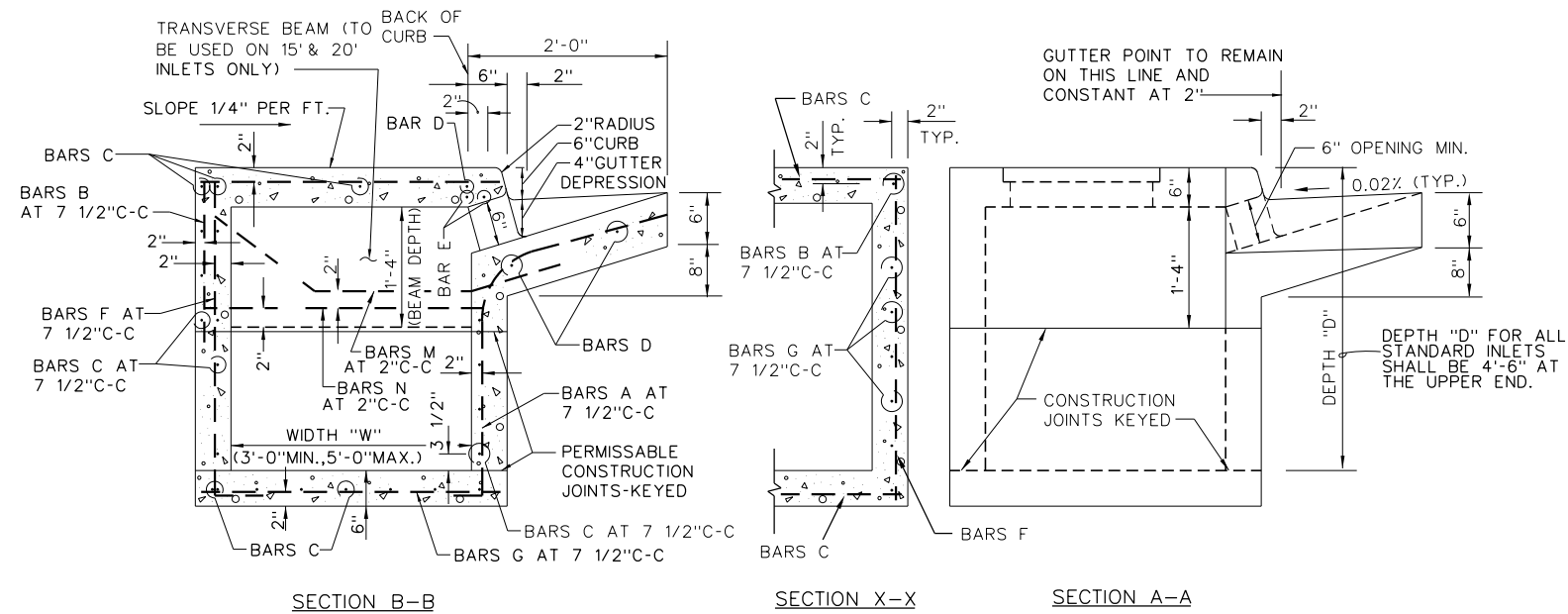
CITY OF ROCKWALL, TEXAS
AIRPORT ROAD RECONSTRUCTION

CIVIL

BRICK PAVERS DETAILS

NO.	ISSUE	BY	DATE	F&N JOB NO.
				ROK08461
			DATE 05/15/12	
			DESIGNED KRJ	
			DRAWN SLI	
			REVISED	
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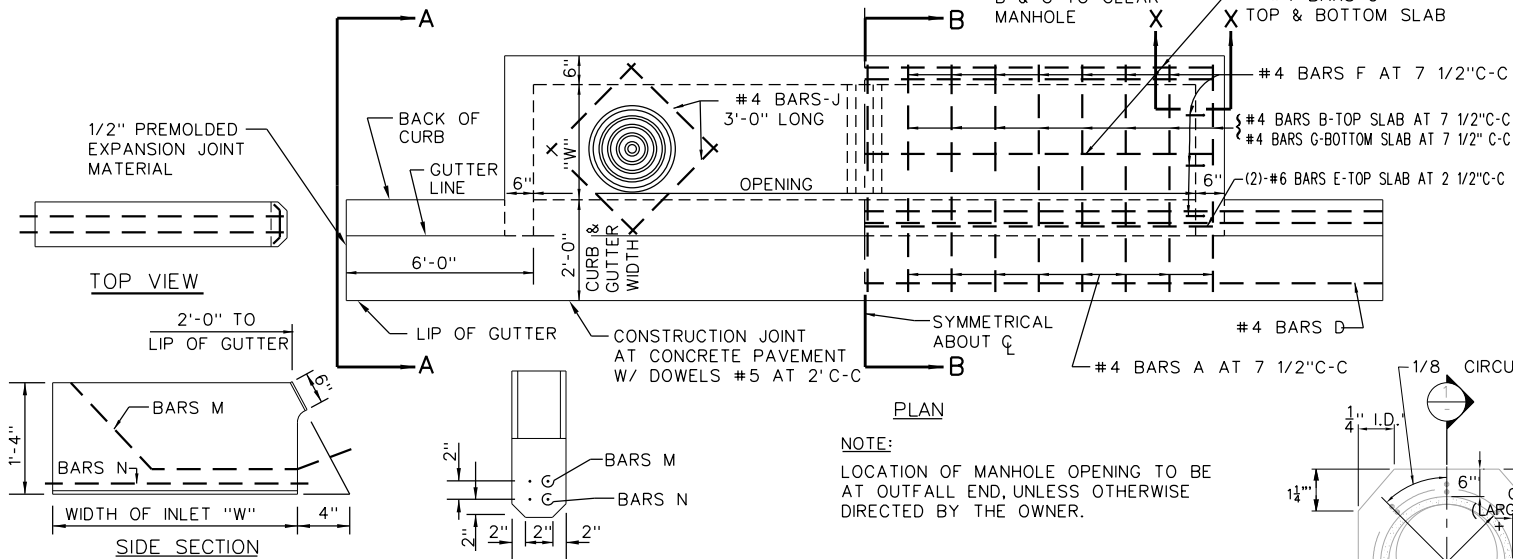
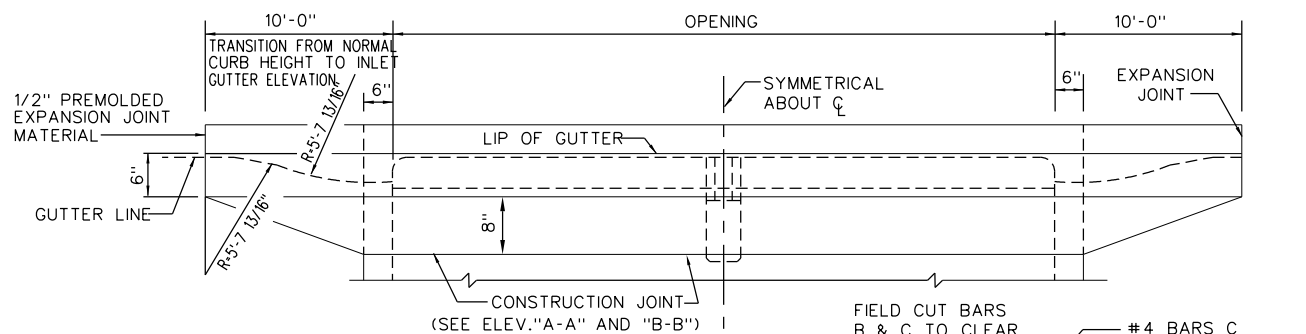


SECTION B-B

SECTION X-X

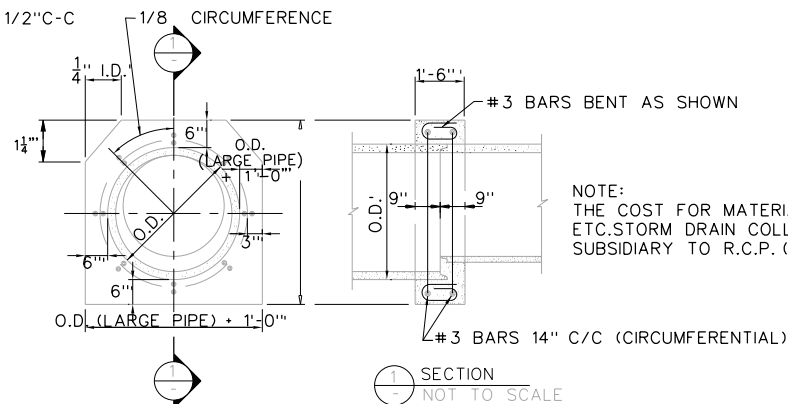
SECTION A-A

1 CURB INLET CROSS SECTION & INLET THROAT
 2 NOT TO SCALE

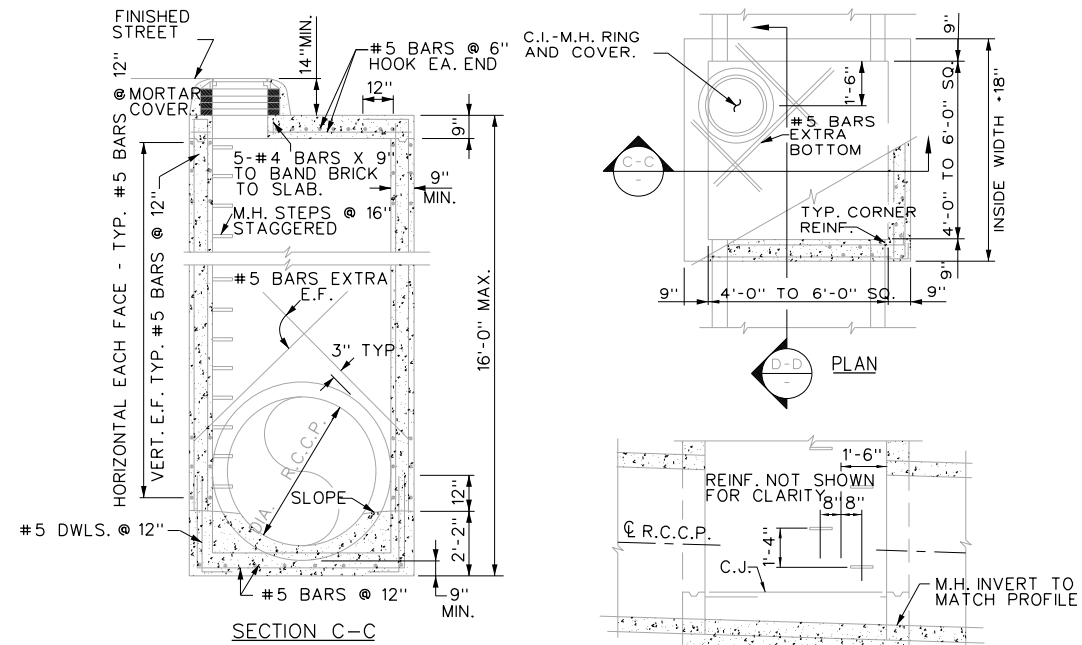


2 CURB INLET 5', 10', 15', OR 20' OPENING
 3 NOT TO SCALE

NOTE:
 LOCATION OF MANHOLE OPENING TO BE
 AT OUTFALL END, UNLESS OTHERWISE
 DIRECTED BY THE OWNER.

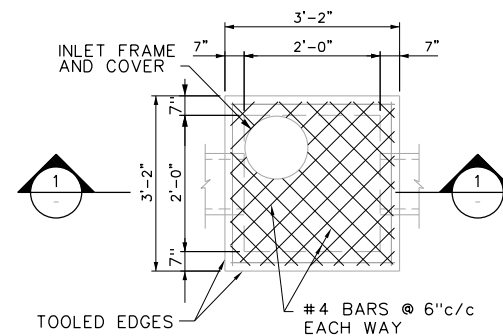


5 REINFORCED CONCRETE COLLAR DETAIL
 6 NOT TO SCALE

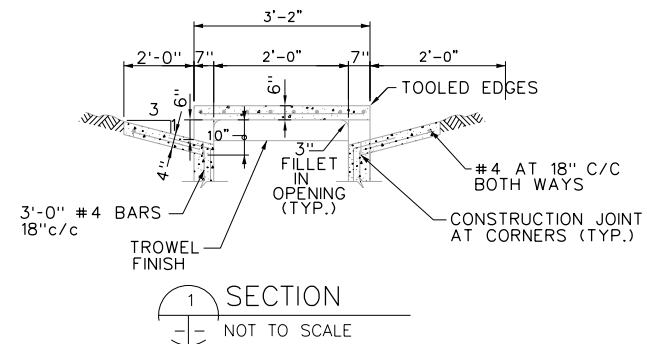


3 SQUARE STORM DRAIN MANHOLE
 4 NOT TO SCALE

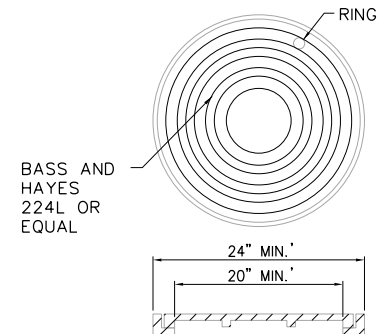
SECTION D-D



4 DROP INLET
 5 NOT TO SCALE



1 SECTION
 2 NOT TO SCALE



5 CAST IRON FRAME & COVER
 6 NOT TO SCALE

GENERAL NOTES:

1. MATERIAL AND WORKMANSHIP SHALL CONFORM WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR CONCRETE MANHOLES.
2. LAYERS OF REINFORCED STEEL NEAREST THE INTERIOR AND EXTERIOR SURFACES SHALL HAVE A COVER OF 2" TO THE CENTER OF BARS, UNLESS OTHERWISE NOTED.
3. EXCAVATION FOR MANHOLE TO BE INCLUDED IN THE UNIT PRICE BID FOR MANHOLE.
4. FOR DETAILS OF REINFORCING OF LOWER PORTIONS OF INLET SEE APPROPRIATE SQUARE MANHOLE DETAILS.
5. DEPTH OF DROP INLET FROM FINISHED GRADE TO FLOW LINE OF INLET IS VARIABLE. APPROXIMATE DEPTH WILL BE SHOWN ON PLANS AT LOCATION OF INLET.
6. ALL STANDARD DROP INLETS SHALL HAVE ONE OPENING ON EACH SIDE UNLESS SHOWN ON PLANS.

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CITY OF ROCKWALL, TEXAS
AIRPORT ROAD RECONSTRUCTION

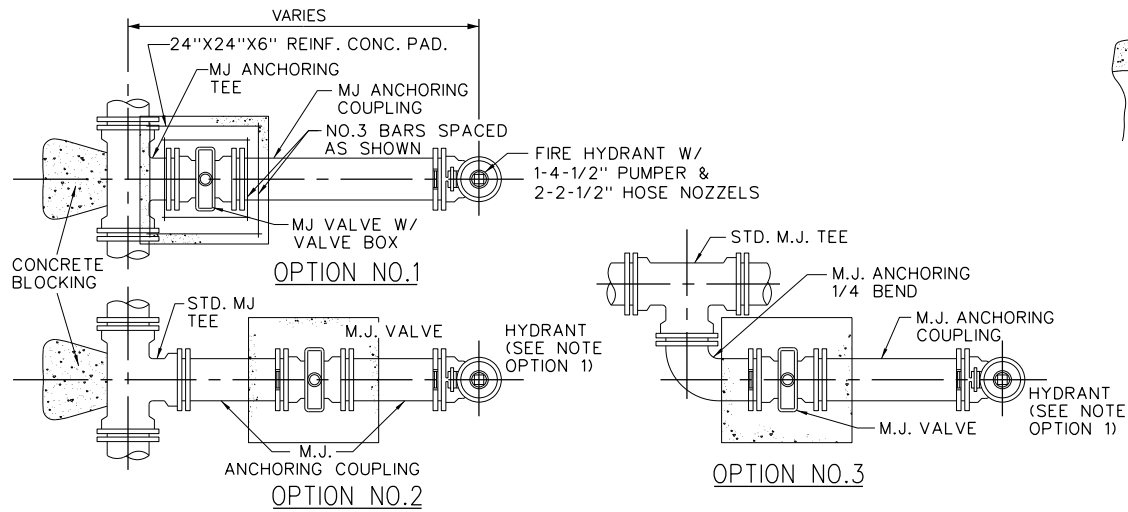
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STORM DRAIN DETAILS

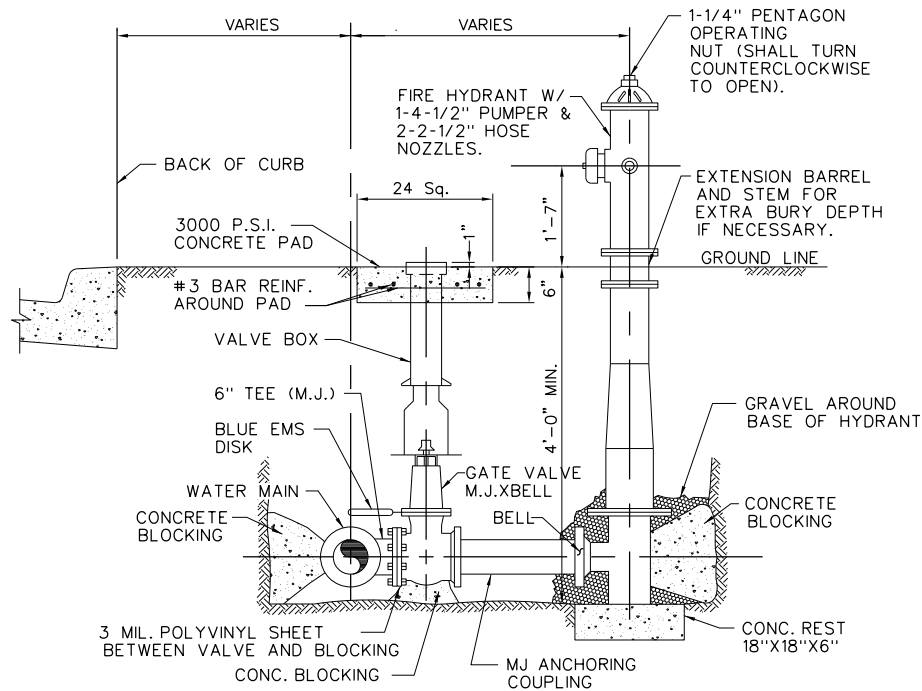
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6					VERIFIED	

DT-4

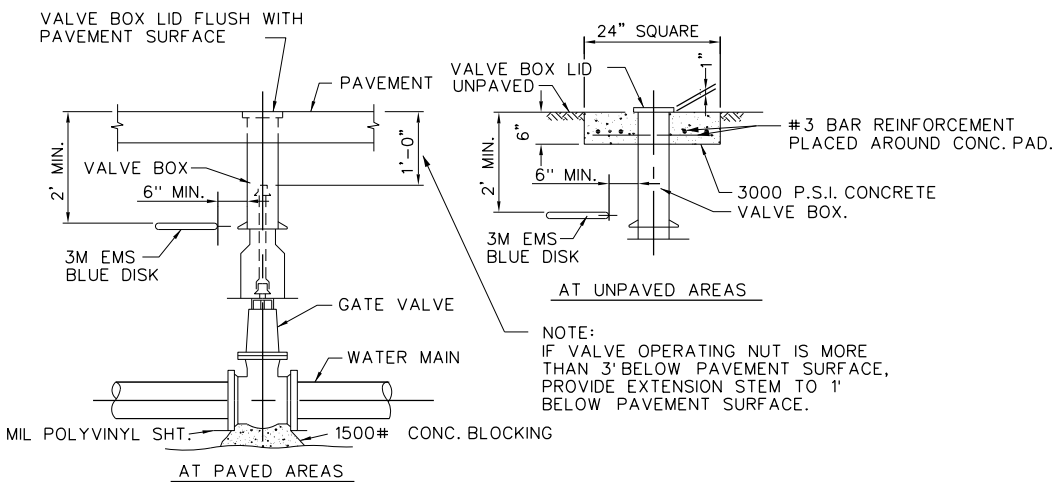
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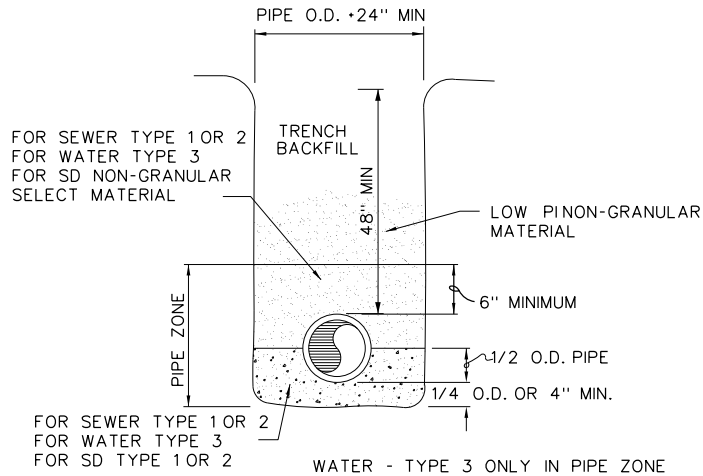
PLAN VIEW



1 TYPICAL FIRE HYDRANT INSTALLATION
NOT TO SCALE



2 TYPICAL GATE VALVE BOX & EXTENSION STEM DETAIL
NOT TO SCALE



NOTES:
CRUSHED LIMESTONE, TYPE 1, EMBEDMENT: CRUSHED LIMESTONE SHALL CONSIST OF DURABLE PARTICLES OF CRUSHED STONE RANGING IN SIZE FROM 3/4" TO 1/4" WITH PERCENT OF WEAR NOT EXCEEDING 35%. THE GRADATION BASED ON ASTM D448 SIZE 67, USE AS FOLLOWS:

SIEVE SIZE	% BY WEIGHT PASSING
1"	100
3/4"	90 - 100
3/8"	20 - 55
NO. 4	0 - 10
NO. 8	0 - 5

GRAVEL, TYPE 2, EMBEDMENT: GRAVEL FOR EMBEDMENT AND/OR ENCASEMENT SHALL BE WASHED GRAVEL RANGING IN SIZE FROM 3/4" INCH DIAMETER TO 1/4" INCH DIAMETER MEETING THE REQUIREMENTS OF ASTM DESIGNATION C33, GRADUATION 67, THE MATERIAL SHALL BE FREE FROM CLAY AND ORGANIC MATERIAL.

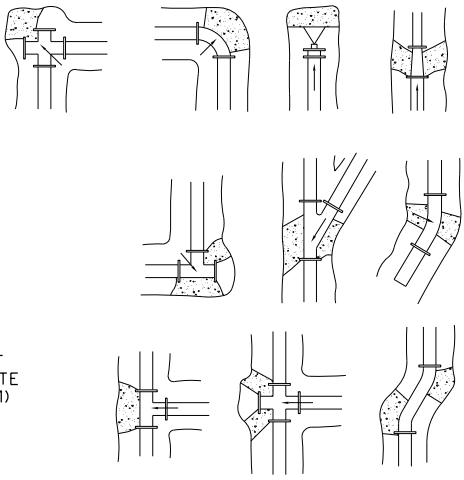
GRANULAR, TYPE 3, EMBEDMENT: PIT RUN GRANULAR EMBEDMENT MATERIAL SHALL BE FREE FLOWING SAND OR MIXED SAND AND PEA GRAVEL FREE FROM LARGE STONES, CLAY AND ORGANIC MATERIAL. THE MATERIAL MAY BE AN INFERIOR GRADE OF PIT RUN OR BLOW SAND NOT TO NORMALLY CONSIDERED SATISFACTORY FOR CONCRETE AGGREGATE AND MAY BE USED DIRECTLY FROM PITS WITHOUT PROCESSING, PROVIDED IT COMPLIES WITH THE QUALITIES DESCRIBED HEREIN. THE MATERIAL SHALL BE SUCH THAT WHEN WET IT WILL NOT FORM A MUD BALL OR TEND TO CLING TOGETHER. THE MATERIAL SHALL HAVE 100% PASSING ONE INCH (1") SIEVE, AND THE PLASTICITY INDEX OF THAT PART PASSING THE 40 SIEVE IS OBTAINED FROM THE CITY.

TESTING PROCEDURES FOR BACKFILL SHALL BE PER CITY OF ROCKWALL SPECIFICATIONS.

SELECT MATERIAL

A NON-EXPANSIVE SOIL WITH SUFFICIENT PERMEABILITY CHARACTERISTICS TO ALLOW RAPID ELIMINATION OF SEEPAGE WATER SHALL BE USED AND SHALL HAVE A PLASTICITY INDEX OF 15 OR LESS.

4 PIPE EMBEDMENT DETAIL
NOT TO SCALE



NOTES:

1. THE EARTH BEARING SURFACE SHALL BE UNDISTURBED MATERIAL. KEEP ALL JOINTS FREE FROM CONCRETE. THRUST BLOCK TO BE CONSTRUCTED OF 1,500 P.S.I. (20 DAY) CONCRETE AND PLACED AS SHOWN ON "TYPICAL BLOCKING DETAILS" ABOVE.

2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ADEQUATE THRUST BLOCKING. THE HORIZONTAL BLOCKING TABLE SHOWS THE MINIMUM THRUST BLOCKING AREA REQUIRED (IN SQUARE FEET) BEARING AGAINST UNDISTURBED TRENCH WALL.

3. ALL FITTINGS SHALL BE BLOCKED REGARDLESS OF THE ANGLE OR DIRECTION, EXCEPT AS NOTED IN THE CHART.

4. SOIL BEARING STRENGTH IS ASSUMED TO BE 2,000 P.S.F. SITE CONDITIONS MAY VARY WHICH WILL REQUIRE MODIFICATIONS TO THE BLOCKING CALCULATIONS.

3 TYPICAL THRUST BLOCKING DETAILS
NOT TO SCALE

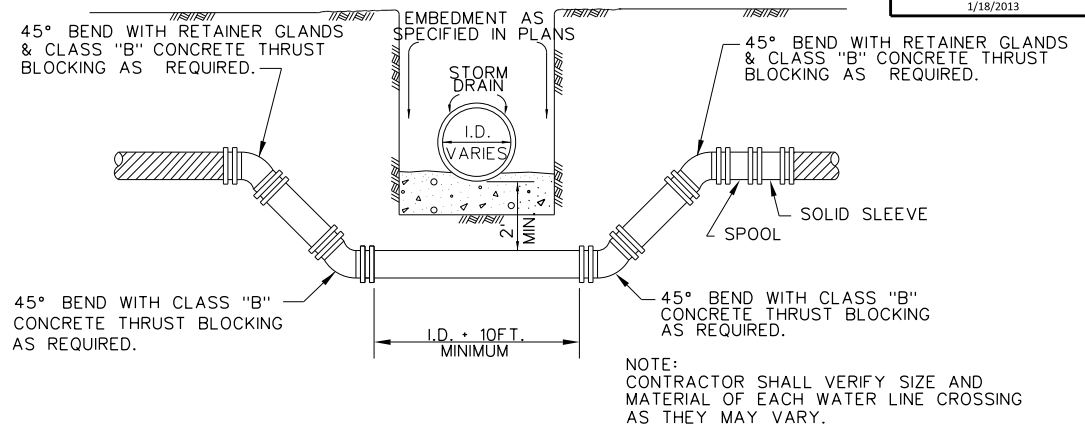
HORIZONTAL BLOCKING TABLE

AREA REQUIRED (IN SQUARE FEET) BEARING AGAINST UNDISTURBED TRENCH WALL

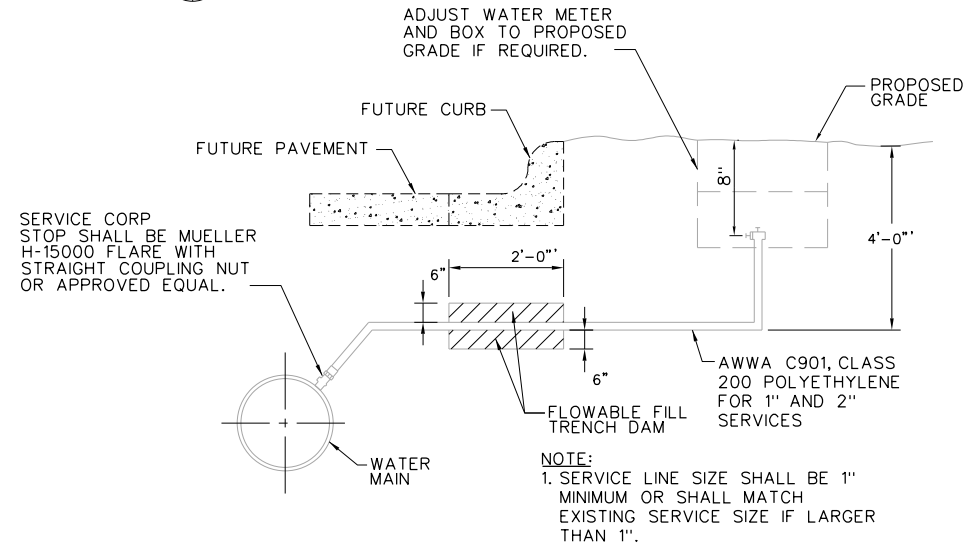
PIPE SIZE (IN.)	THRUST (POUNDS) DEAD END AND TEE	BLOCKING (SQUARE FEET)					
		DEAD END	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND	5° DEFLECT
4	2,450	1.23	1.73	0.94	0.50	0.50	0.50
6	5,513	2.76	3.90	2.11	1.08	0.54	0.50
8	9,802	4.90	6.93	3.75	1.91	0.96	0.50
10	15,315	7.66	10.83	5.86	2.99	1.50	0.67
12	22,054	11.03	15.59	8.43	4.30	2.16	0.96

BASED ON 2,000 P.S.F. SOIL BEARING CAPACITY AND 195 P.S.I. LINE PRESSURE (150 P.S.I. WORKING PRESSURE PLUS 30% FOR WATER HAMMER.)

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5 WATER LINE LOWERING
NOT TO SCALE



6 TYPICAL WATER SERVICE CONNECTION
NOT TO SCALE

GENERAL NOTES:

- CONTRACTOR TO FIELD VERIFY CONNECTIONS TO EXISTING WATER LINES
- CONTRACTOR SHALL PROVIDE A WATER SERVICE AND METER BOX FOR ALL LOTS.
- ALL WATER LINE CONNECTIONS SHALL BE RESTRAINED.
- MINIMUM DEPTH ON WATERLINES SHALL BE 48 INCHES.
- CONTRACTOR SHALL MEET ALL TCEQ REQUIREMENTS WHILE CONSTRUCTING UTILITY LINES.
- CONTRACTOR SHALL PLACE WATER VALVES SO THAT THEY ARE NOT IN CONFLICT WITH STREET CURB AND GUTTER.
- NO SEPARATE PAY ITEM FOR ADJUSTING APPURTENANCES TO GRADE.

THIS SEAL SHALL REMAIN UNALTERED ON THIS DOCUMENT WAS AUTHORIZED BY: Clayton R. Evans, P.E. ON DATE: 2/4/11 TEXAS NO: 94646. ANY ALTERATION OR REVISION WITHOUT PROPER AUTHORIZATION OF THE SEALING ENGINEER IS A VIOLATION OF THE TEXAS ENGINEERING PRACTICE ACT. OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

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Freese and Nichols, Inc. Texas Board of Professional Engineers Reg. No. 214

CITY OF ROCKWALL, TEXAS
AIRPORT ROAD RECONSTRUCTION

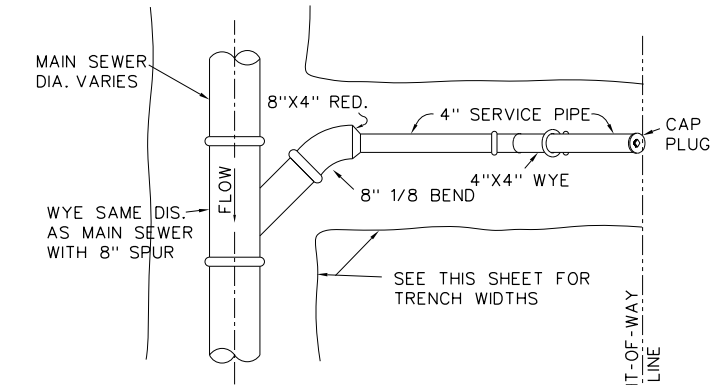
CIVIL

WATERLINE DETAILS

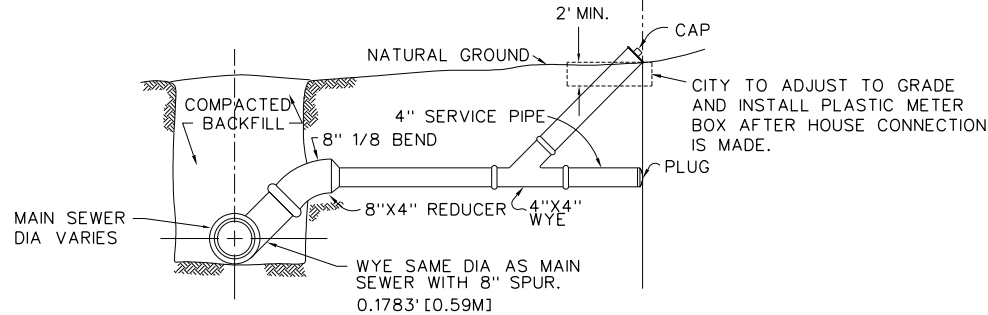
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2					DATE 05/15/12
3					DESIGNED KRU
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6					CHECKED
7					FILE NAME
8					cv-trt-gn-detail05.sht

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Date: Jan 25, 2013 10:32:28 AM Project: Freese and Nichols, Inc.



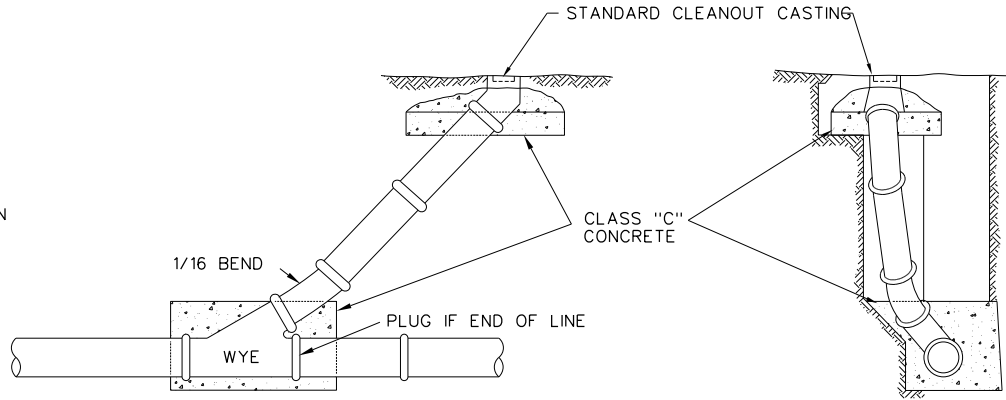
TYPICAL PLAN



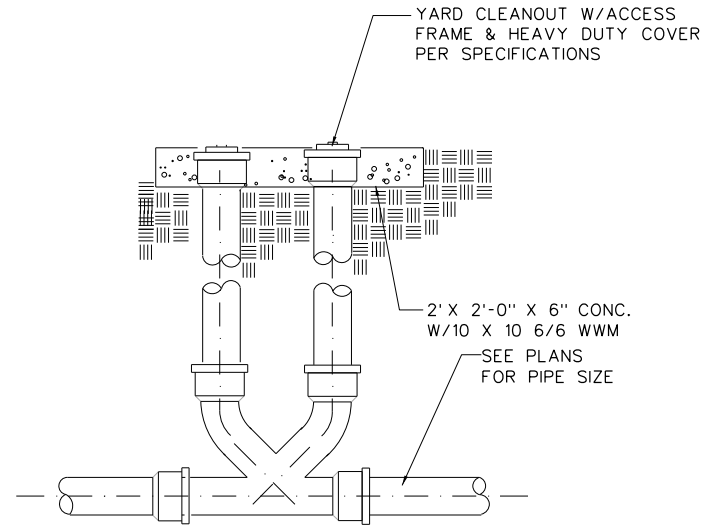
TYPICAL SECTION

1 SERVICE LINE
NOT TO SCALE

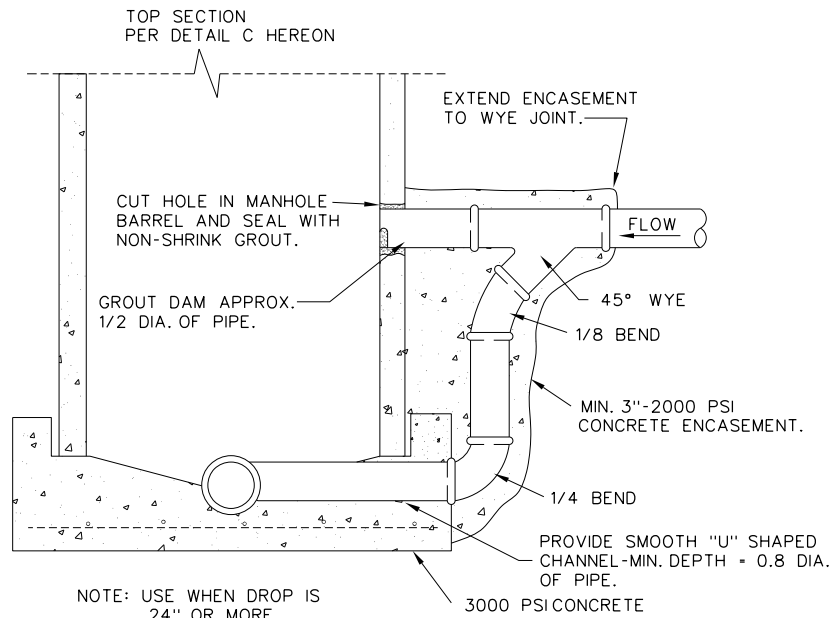
NOTE: (FOR PAYMENT)
LONG SERVICE GREATER THAN 15'
SHORT SERVICE 15' OF LESS



2 CLEANOUT DETAIL
NOT TO SCALE

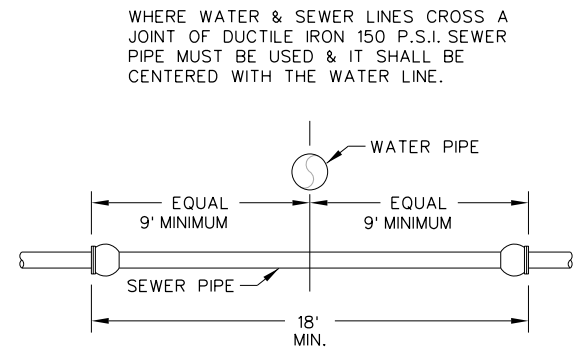


3 DOUBLE CLEANOUT
NOT TO SCALE



TYPICAL SECTION

4 DROP MANHOLE
NOT TO SCALE



5 WATER-SEWER CROSSING DETAIL
NOT TO SCALE

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SANITARY SEWER DETAILS

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