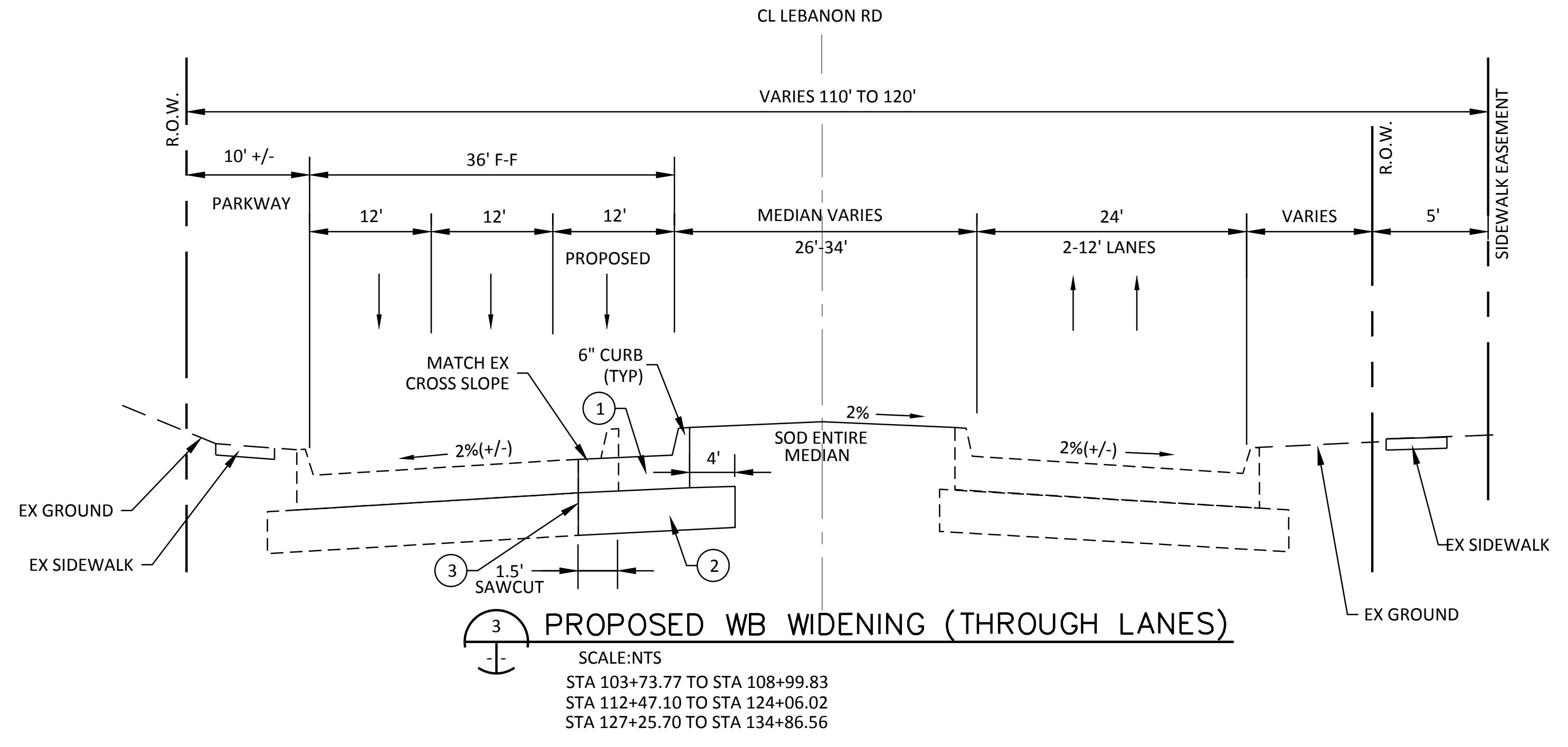
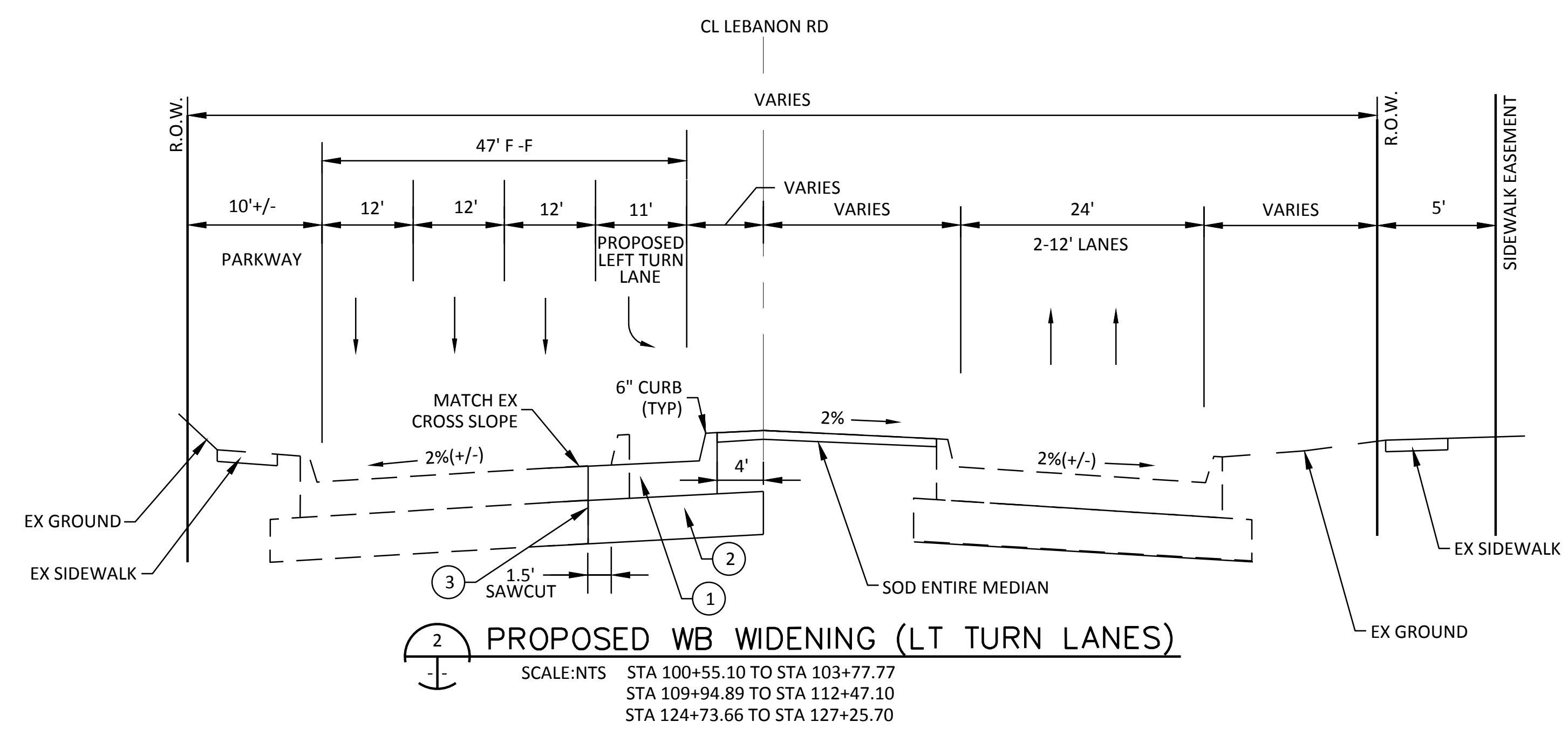


LEGEND	
01	9" REINFORCED CONCRETE PAVEMENT WITH 6" MONO CURB (#4 BARS 18" O.C.E.W.)(DETAIL P03)
02	12" FLEX BASE TxDOT ITEM 247, TYPE D, GRADE 1 OR 2, WITH TRIAX TX 140 GEOGRID UNDER FLEX BASE. @ 11% (100 LBS/SY)
03	LONGITUDINAL JOINT (REFER TO STD DETAILS)

- NOTES:
- ALL DIMENSIONS ARE FACE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.
 - SAWCUT TO MATCH EXISTING CONTROL JOINTS.
 - THE MEDIANS SHALL BE SHAPED TO MATCH THE HEIGHT OF EXISTING MEDIANS.



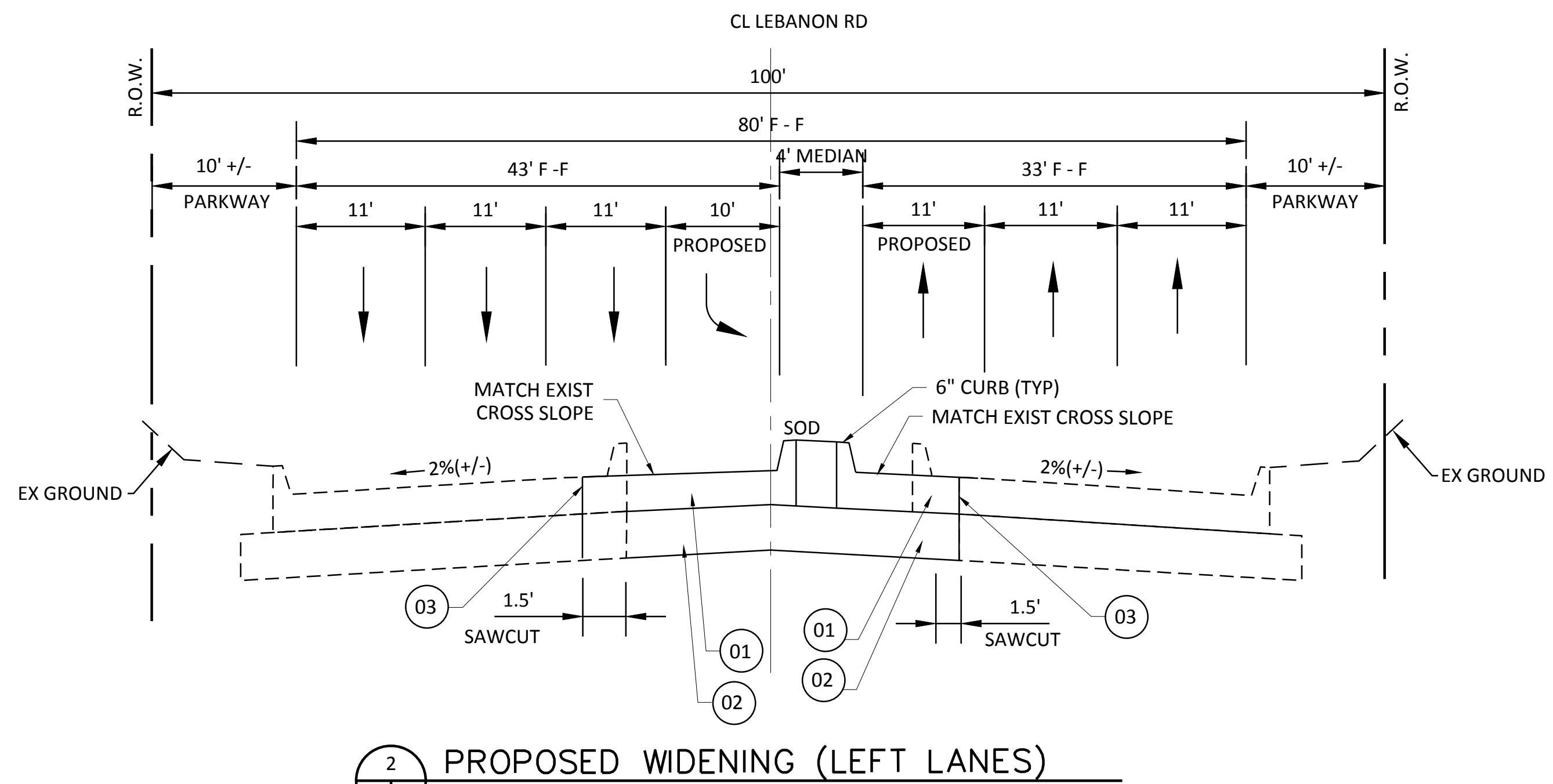
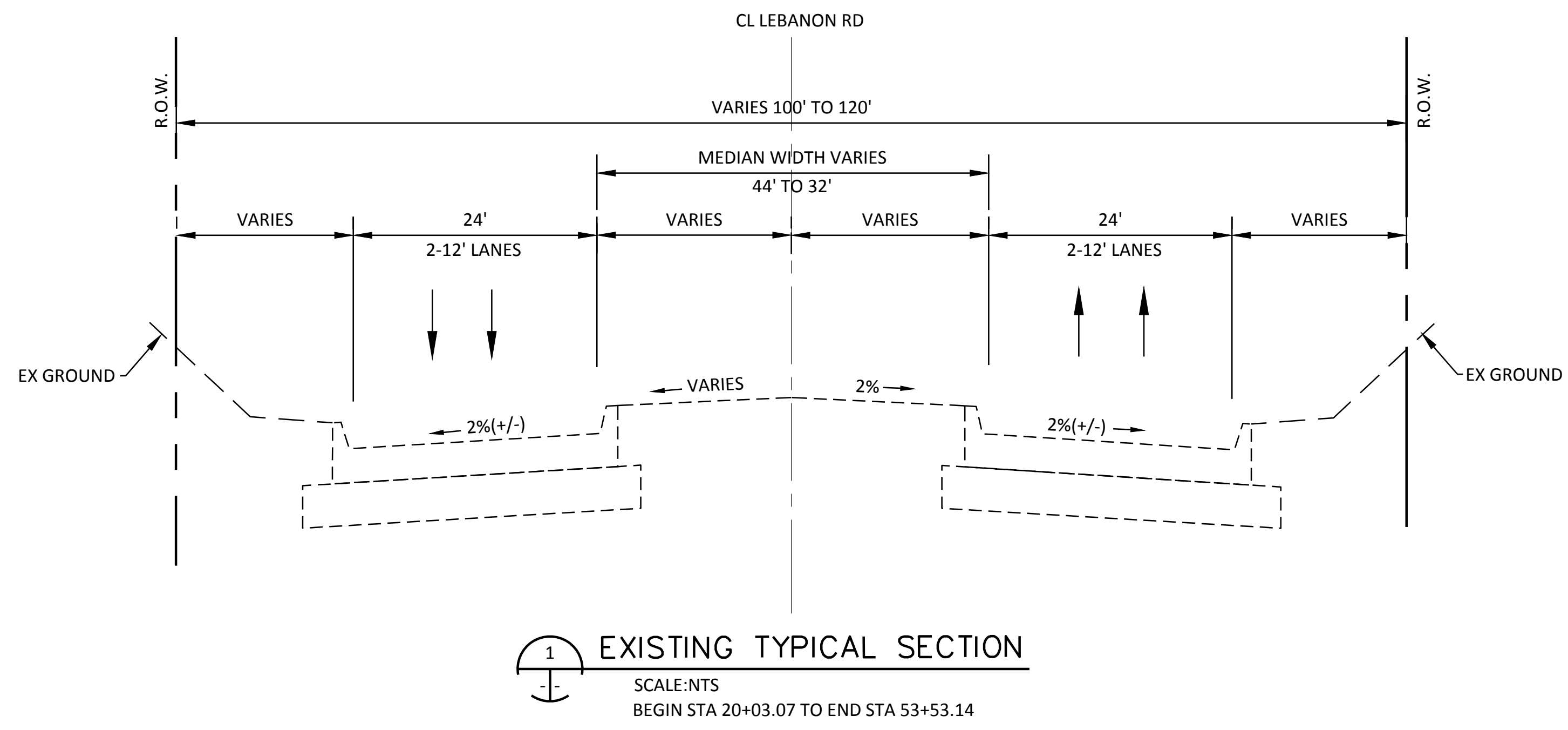
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Fax - (972) 624-9202
Web - www.fresec.com

CITY OF FRISCO, TEXAS
LEBANON ROAD IMPROVEMENTS AND FORCE MAIN

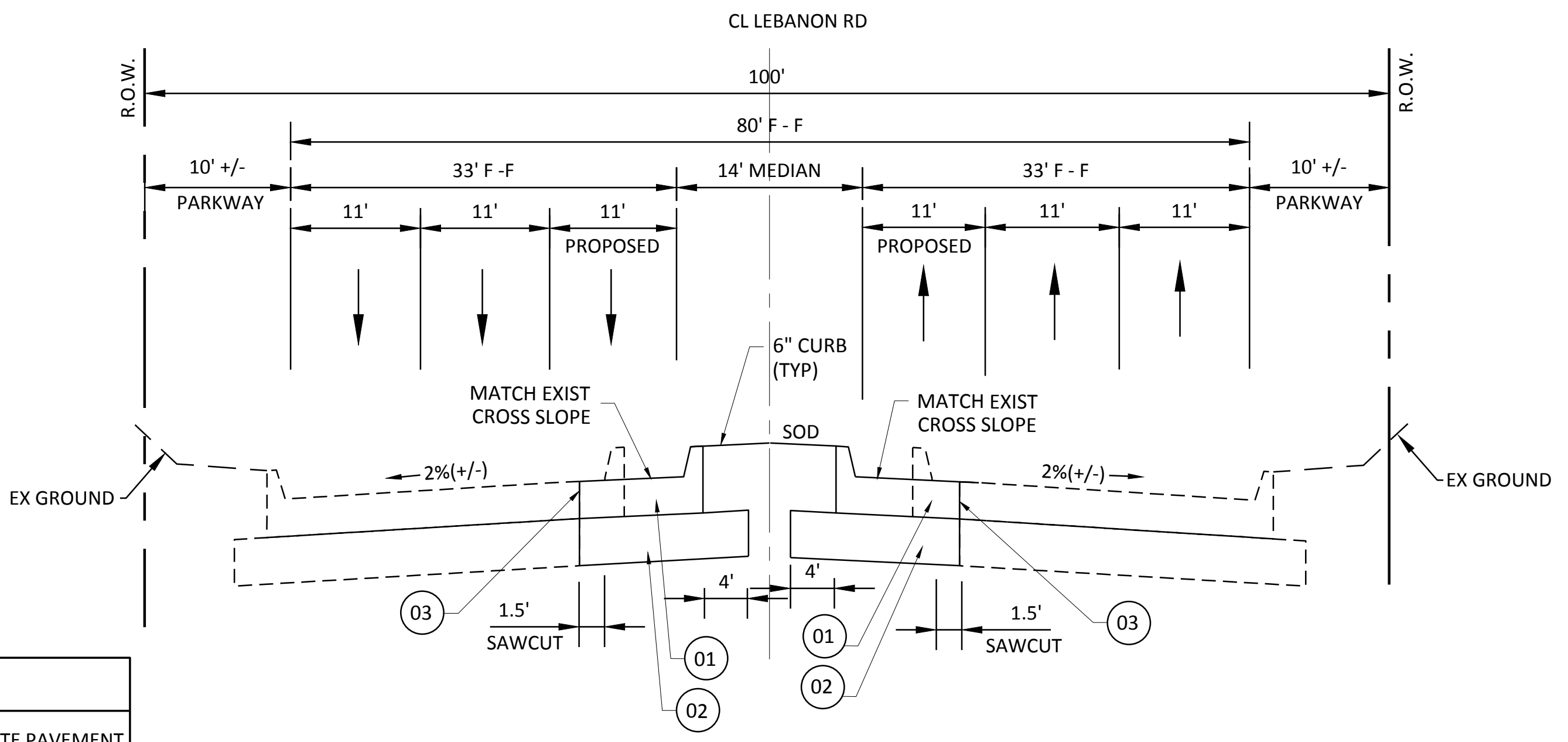
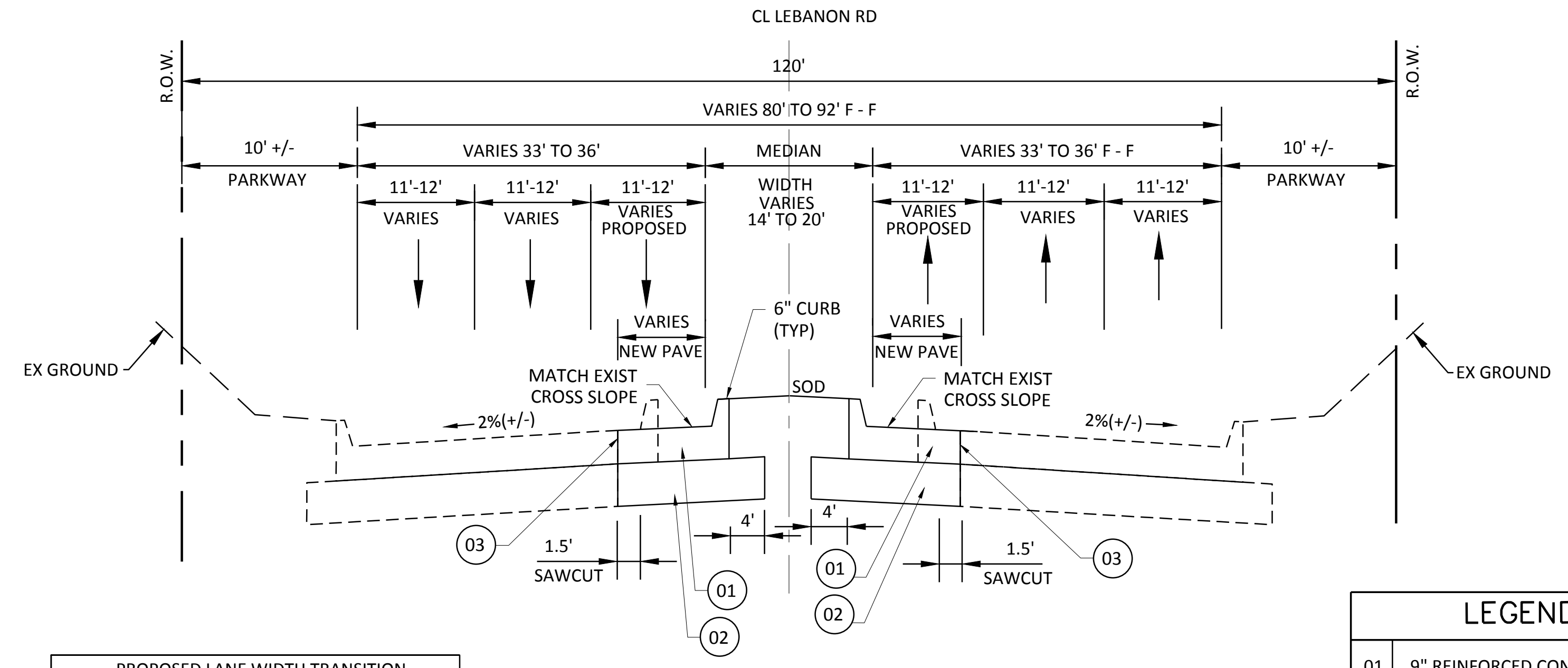
CIVIL
LEBANON ROAD TYPICAL SECTIONS
STA 100+00 TO STA 140+92.21

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SHEET TYP-01
SEQ. 41



- NOTES:
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 - SAWCUT TO MATCH EXISTING CONTROL JOINTS.
 - THE MEDIANS SHALL BE SHAPED TO MATCH THE HEIGHT OF EXISTING MEDIANS.



PROPOSED LANE WIDTH TRANSITION		
SIDE	STATION	WIDTH
LT	STA 20+03 TO STA 22+64	11' TO 12'
RT	STA 20+83 TO STA 22+44	11' TO 12'

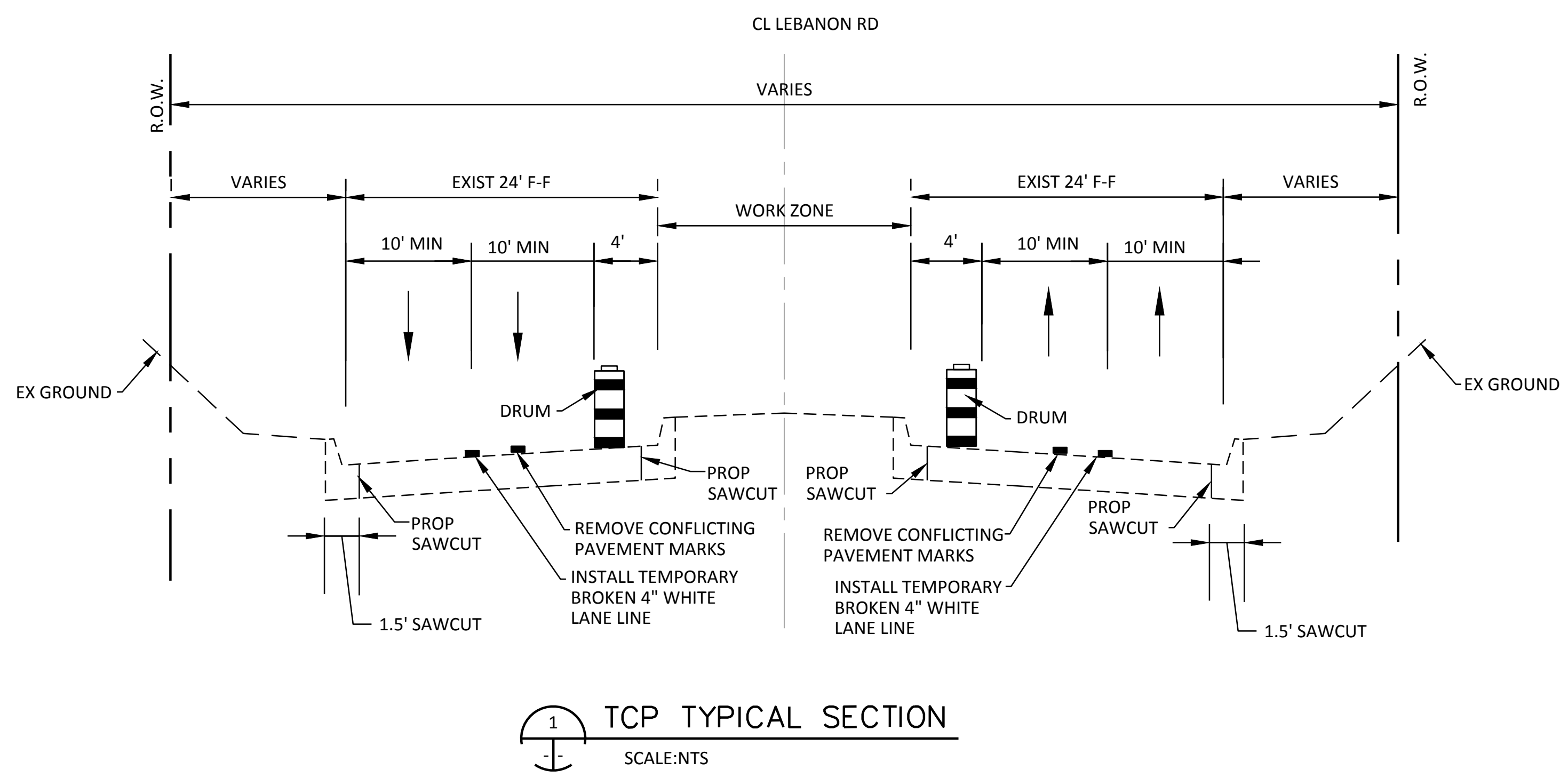
LEGEND	
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CIVIL
LEBANON ROAD TYPICAL SECTIONS
STA 10+00 TO STA 54+33.28

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



1 TCP TYPICAL SECTION
 SCALE: NTS

TRAFFIC CONTROL GENERAL NOTES:

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6. NO EDGE DROP OFFS GREATER THAN 9" WILL BE ALLOWED DURING NON-WORK PERIODS. A 4H:1V SLOPE WEDGE OF FLEX-BASE SHALL BE PLACED TO MITIGATE DROP OFFS GREATER THAN 9".

CONSTRUCTION SEQUENCE NOTES:

1. OBLITERATE EXISTING 10'-30' SKIP MARKINGS AND MARKERS IN AREA OF ROADWAY WIDENING.
2. INSTALL TEMPORARY 4" WHITE SKIP LINES, PROVIDING 10' MIN LANE WIDTH.
3. INSTALL WORK ZONE SIGNS AND CHANNELIZING DEVICES.
4. SAWCUT EXISTING PAVEMENT AND CONSTRUCT INSIDE THRU LANES AND LEFT TURN LANES.



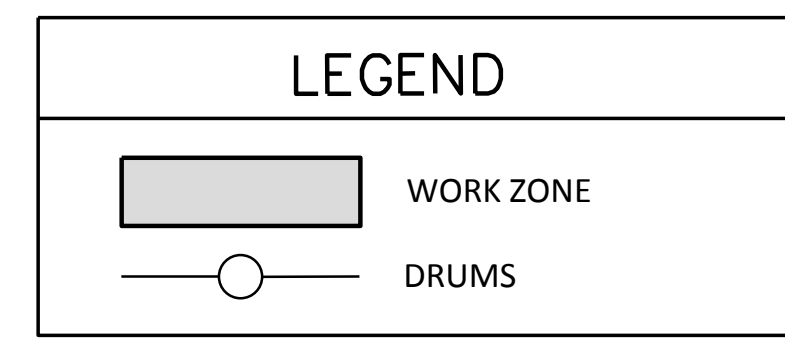
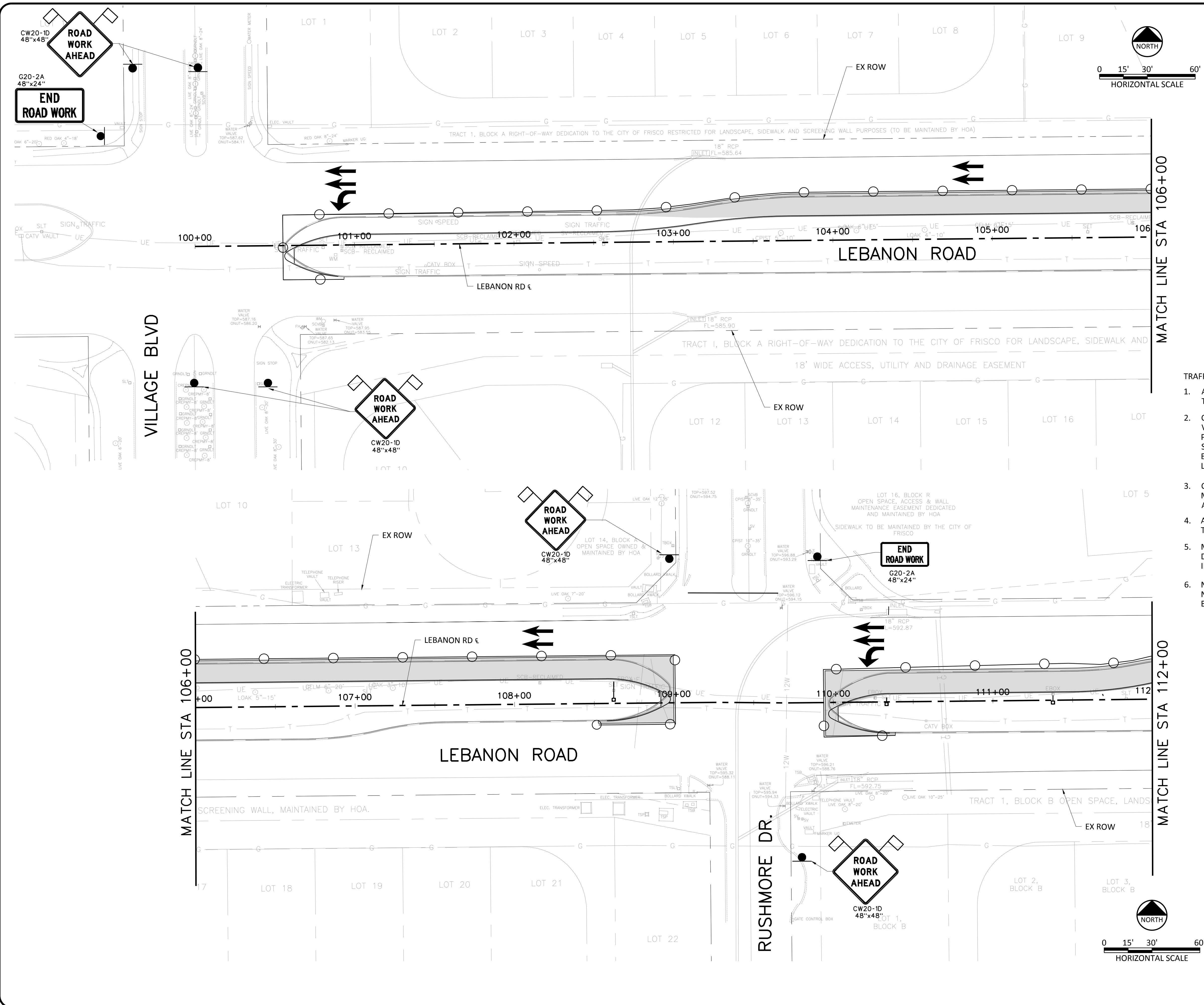
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CIVIL
LEBANON ROAD
TRAFFIC CONTROL TYPICAL SECTION

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				CHECKED	
				FILE NAME	cv-fft-pl-TC-TYP01

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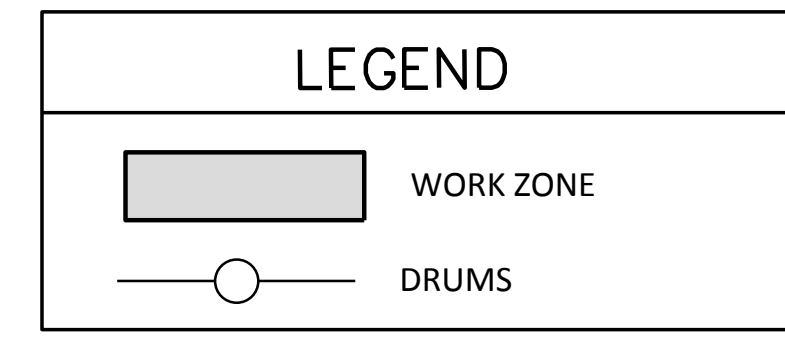
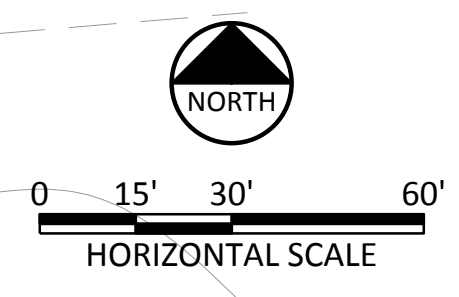
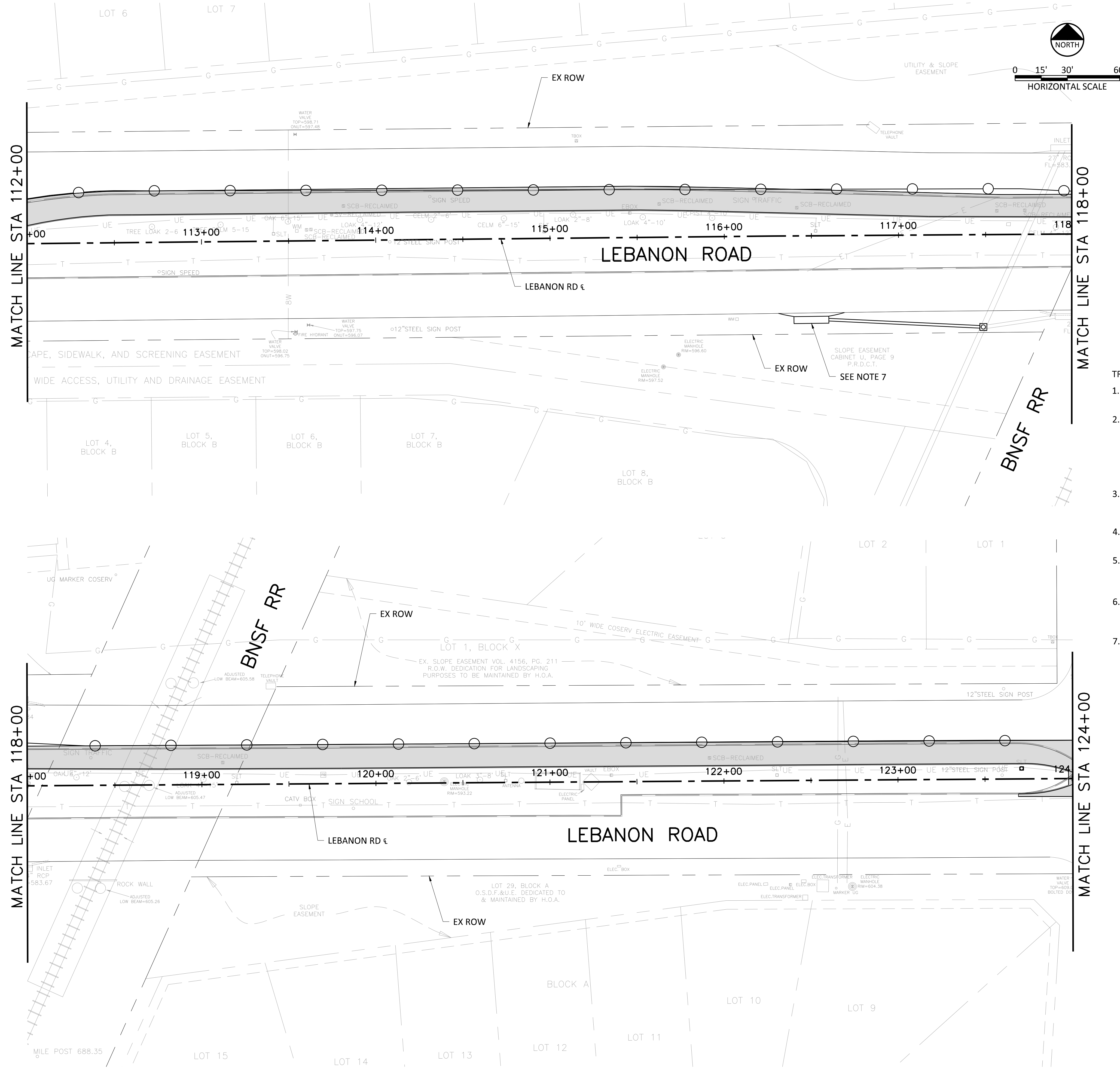
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LEBANON ROAD TRAFFIC CONTROL
PHASE 1 BEGIN TO STA 112+00

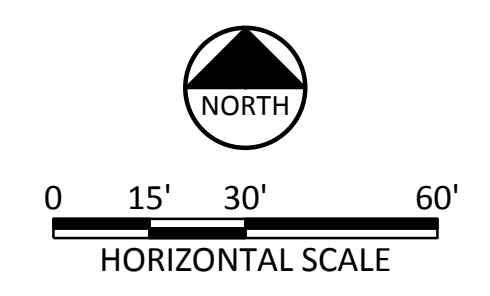
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SHEET **TC-02**
 SEQ. **44**

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 7. FOR INLET CONSTRUCTION, MAINTAIN ONE LANE OF TRAFFIC IN ACCORDANCE WITH TCP(1-4)-12.



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CITY OF FRISCO, TEXAS
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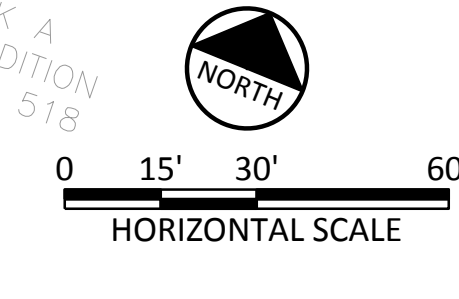
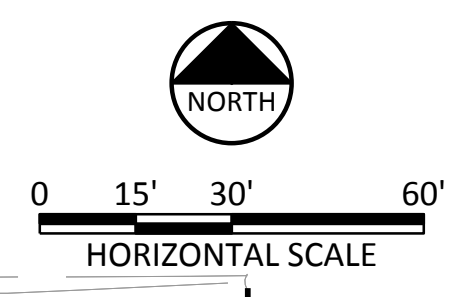
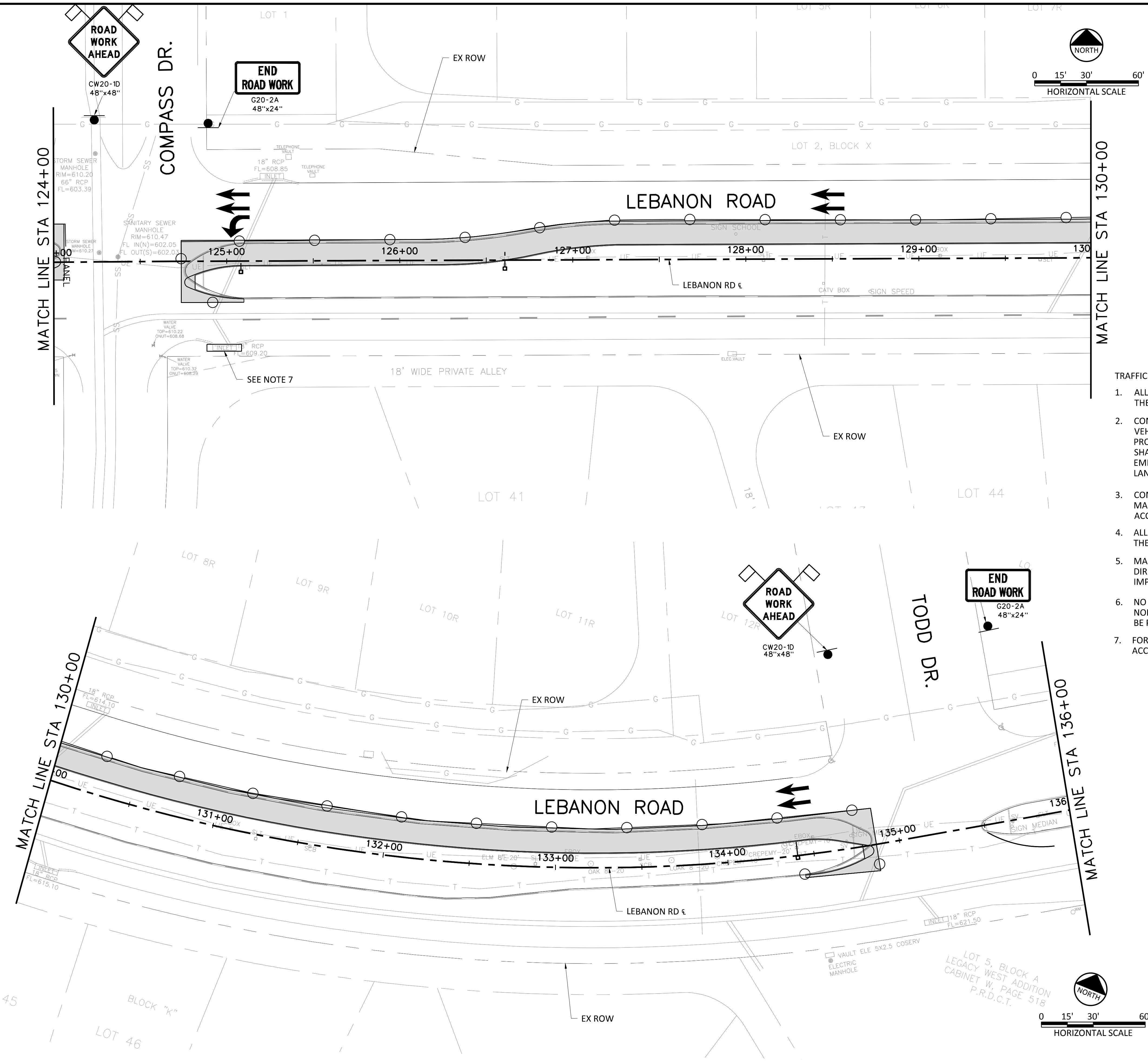
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LEBANON ROAD TRAFFIC CONTROL
STA 112+00 TO STA 124+00

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SHEET **TC-03**
 SEQ. **45**

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LEGEND	
	WORK ZONE
	DRUMS

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 7. FOR INLET CONSTRUCTION, MAINTAIN ONE LANE OF TRAFFIC IN ACCORDANCE WITH TCP(1-4)-12.

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 Web - www.freese.com

CITY OF FRISCO, TEXAS

LEBANON ROAD IMPROVEMENTS AND FORCE MAIN

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LEBANON ROAD TRAFFIC CONTROL
 STA 124+00 TO STA 136+00

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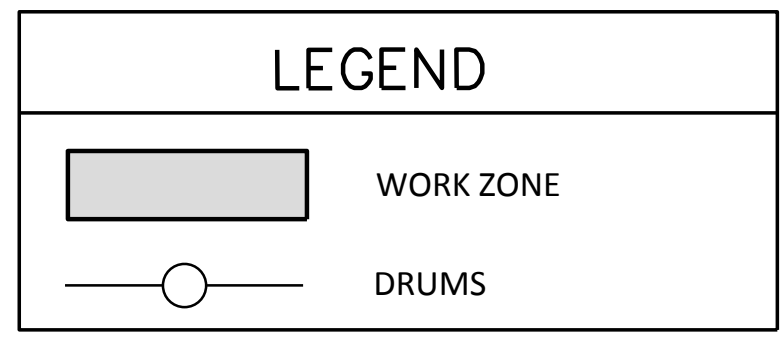
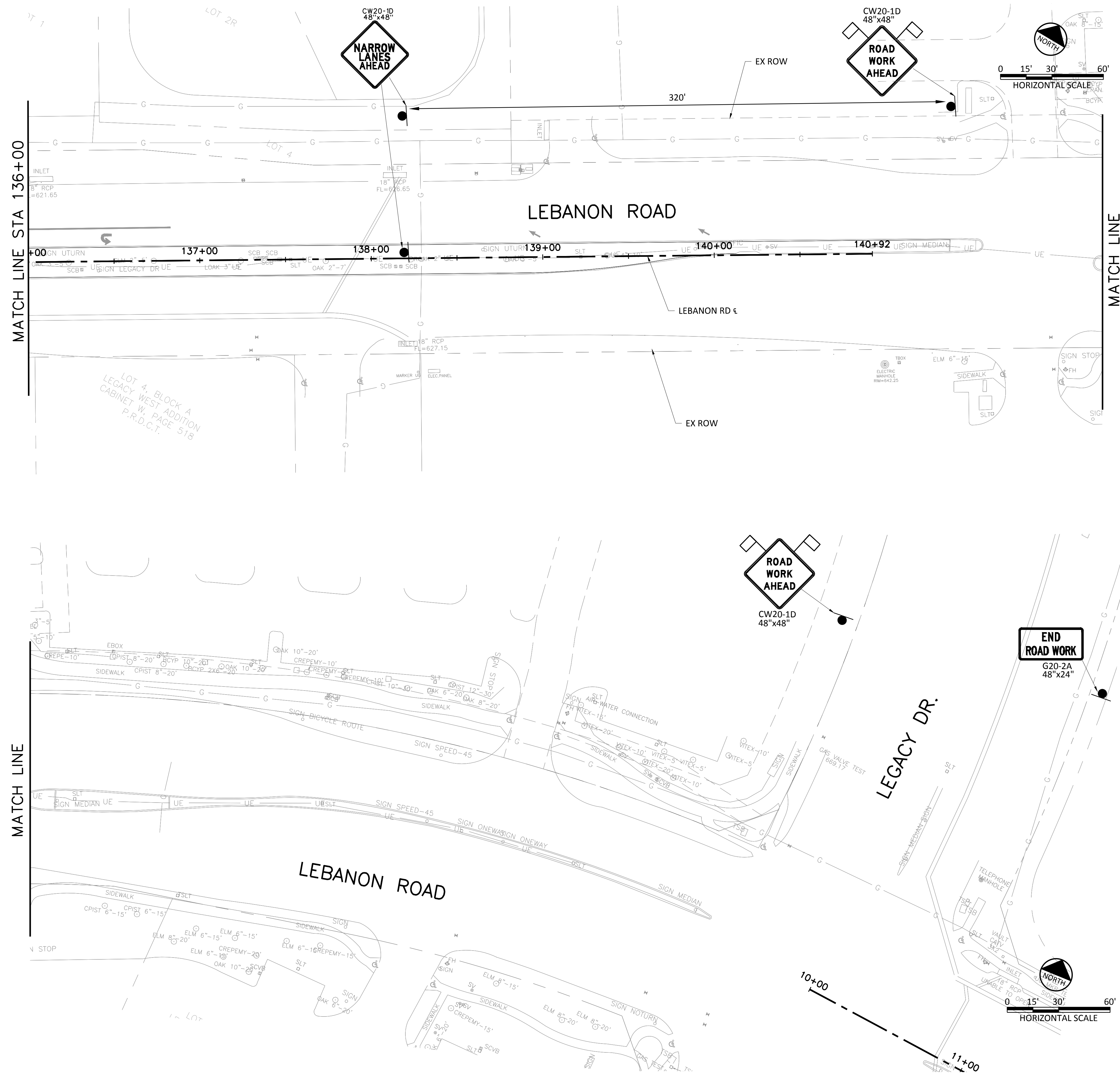
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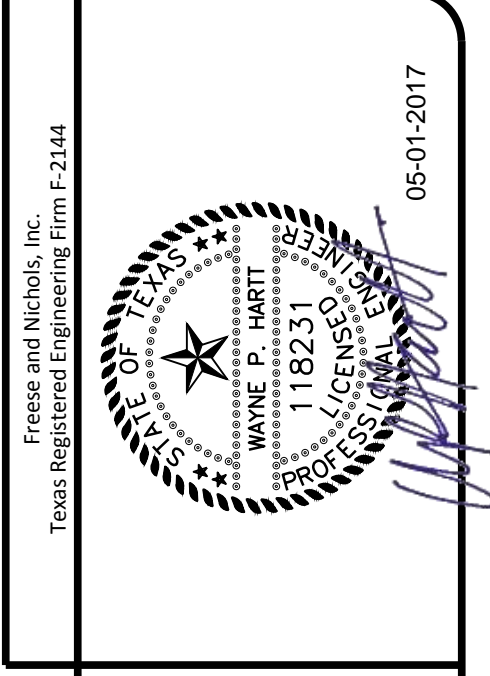
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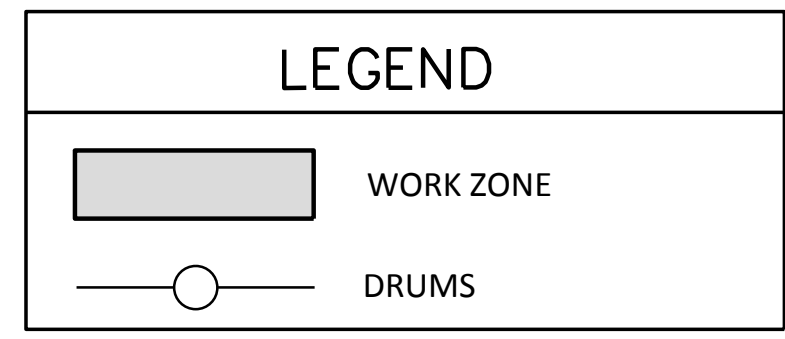
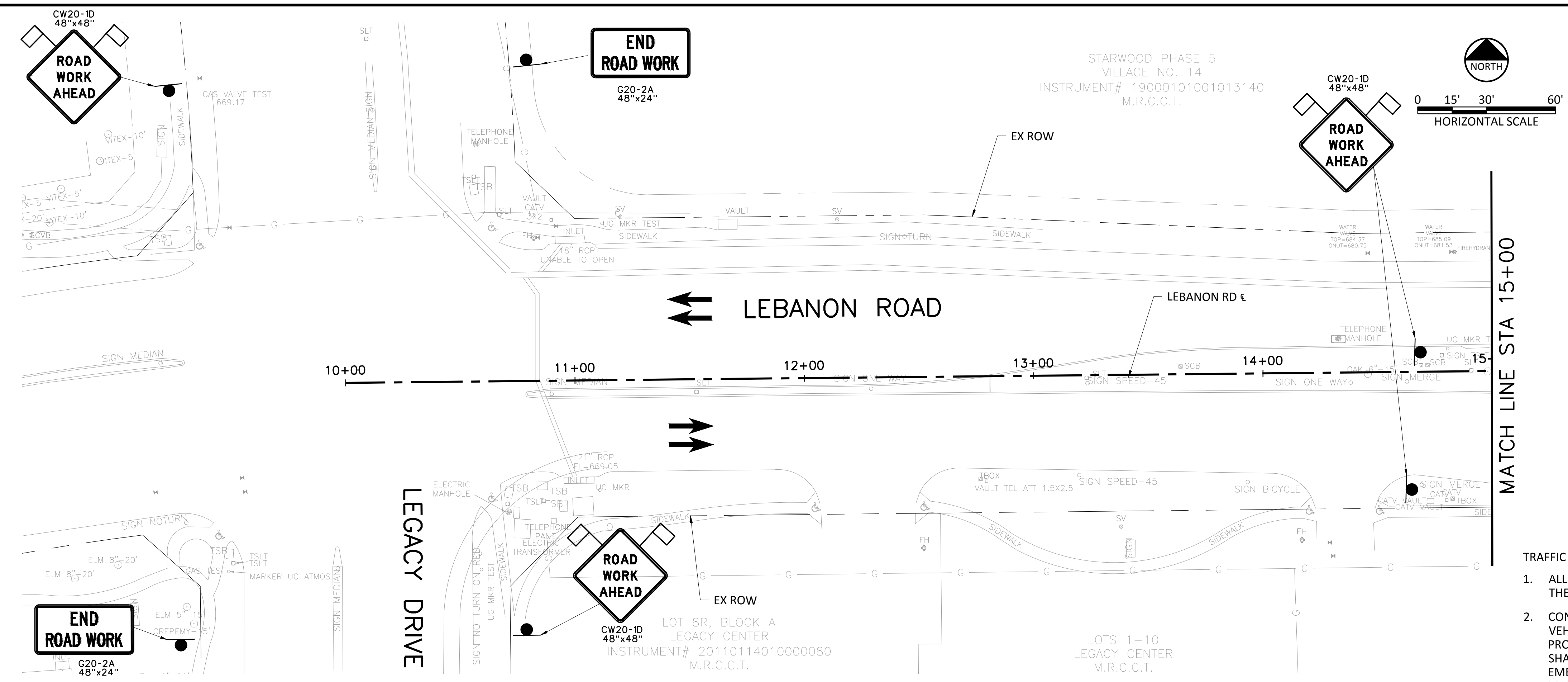
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CITY OF FRISCO, TEXAS
LEBANON ROAD IMPROVEMENTS AND FORCE MAIN
 CIVIL
LEBANON ROAD TRAFFIC CONTROL
STA 124+00 TO 140+92

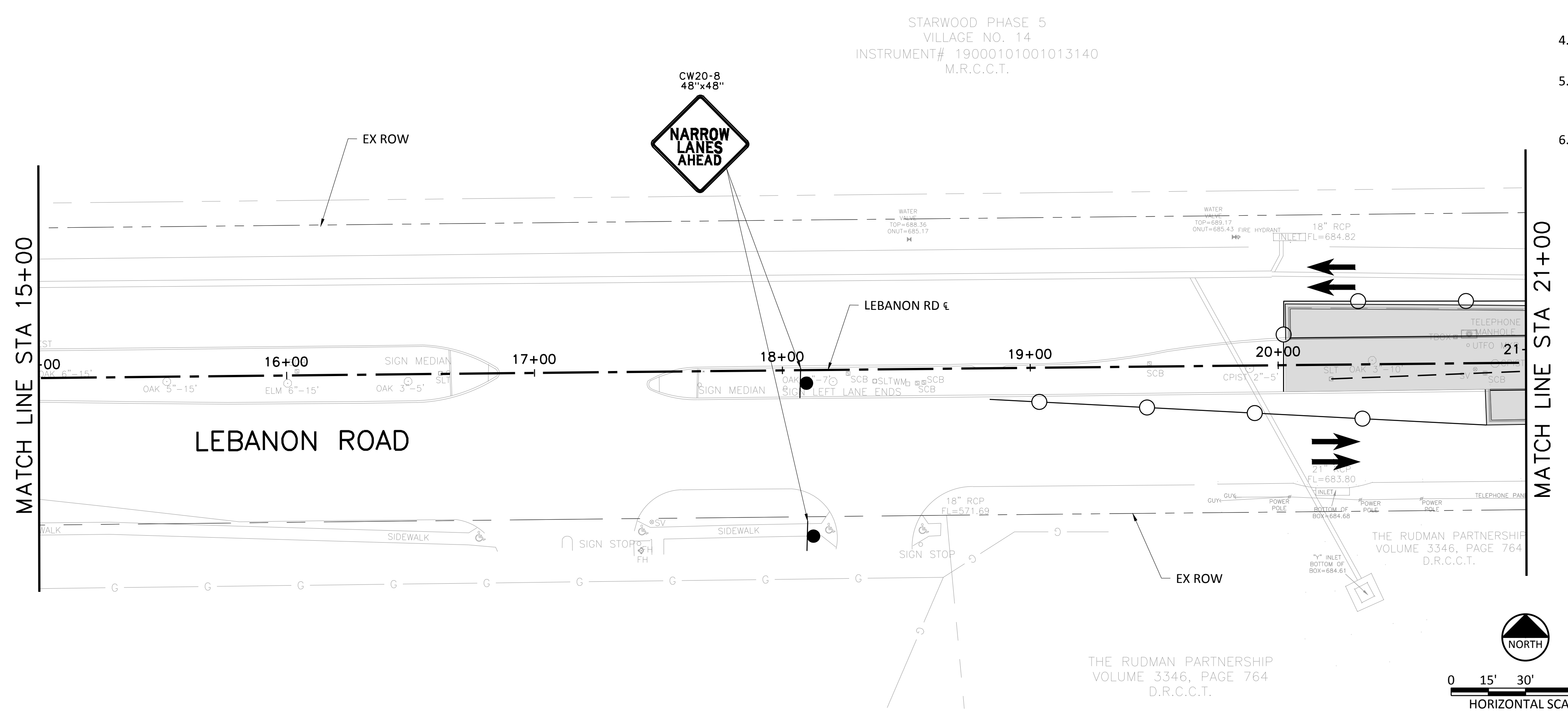
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SHEET **TC-05**
 SEQ. **47**

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05-01-2017

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CITY OF FRISCO, TEXAS

LEBANON ROAD IMPROVEMENTS AND FORCE MAIN

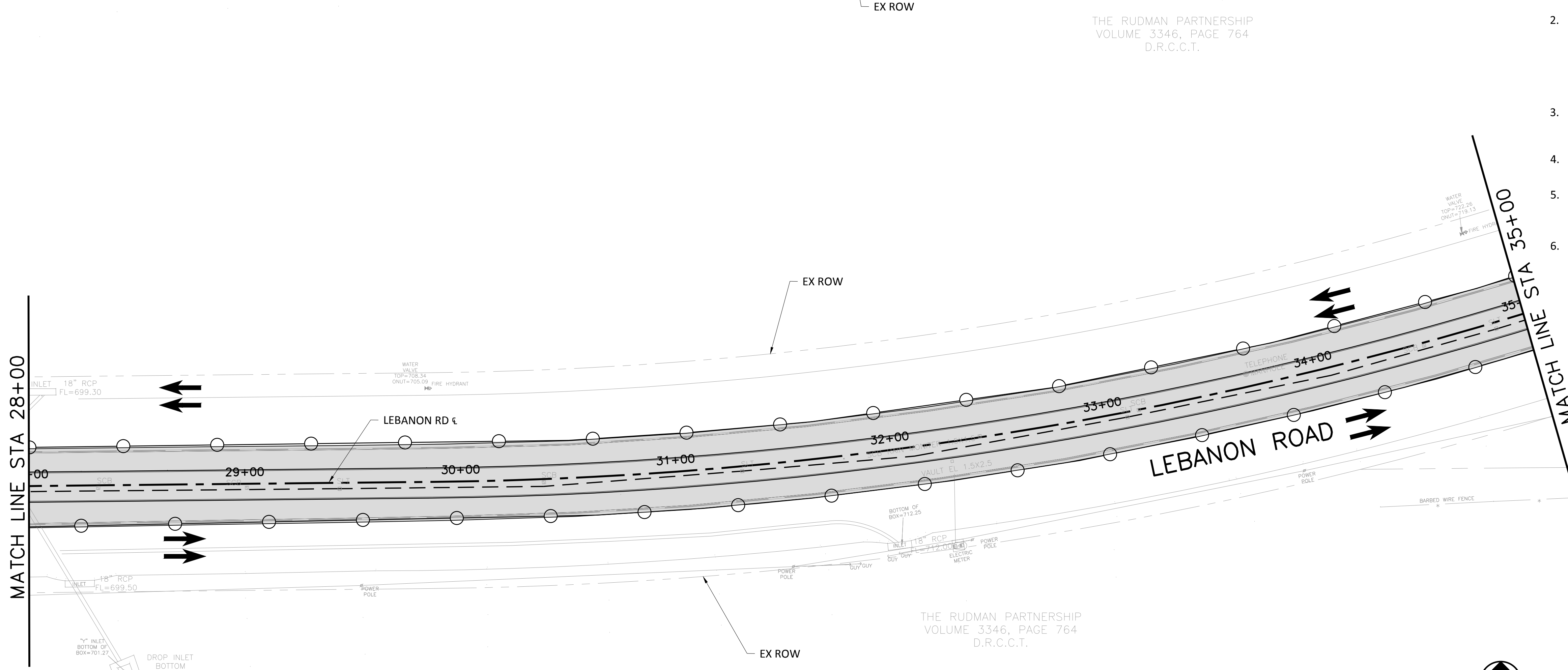
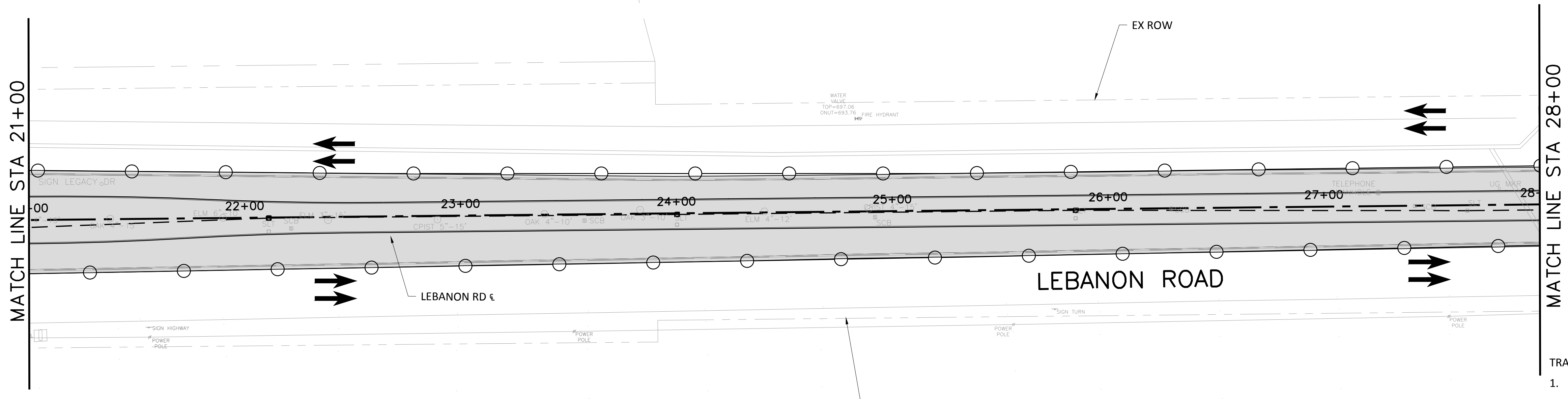
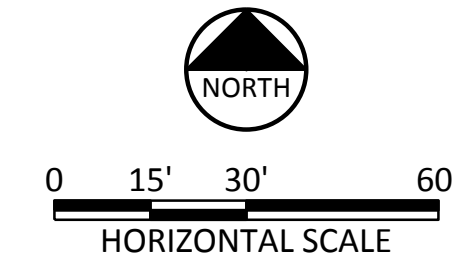
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SHEET		TC-06		
SEQ.		48		

STARWOOD PHASE 5
VILLAGE NO. 14
INSTRUMENT# 19000101001013140
M.R.C.C.T.

STARWOOD PHASE ONE
VILLAS OF STAR CREEK (VILLAGE 2)
AND STAR RIDGE (VILLAGE 3)
CABINET J, PAGE 196
M.R.C.C.T.

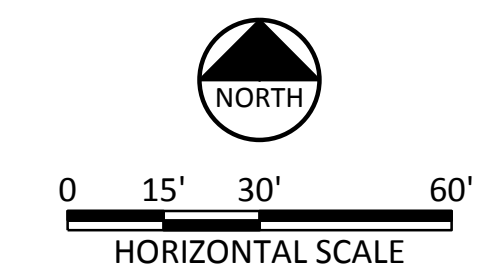


LEGEND

WORK ZONE

DRUMS

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05-01-2017

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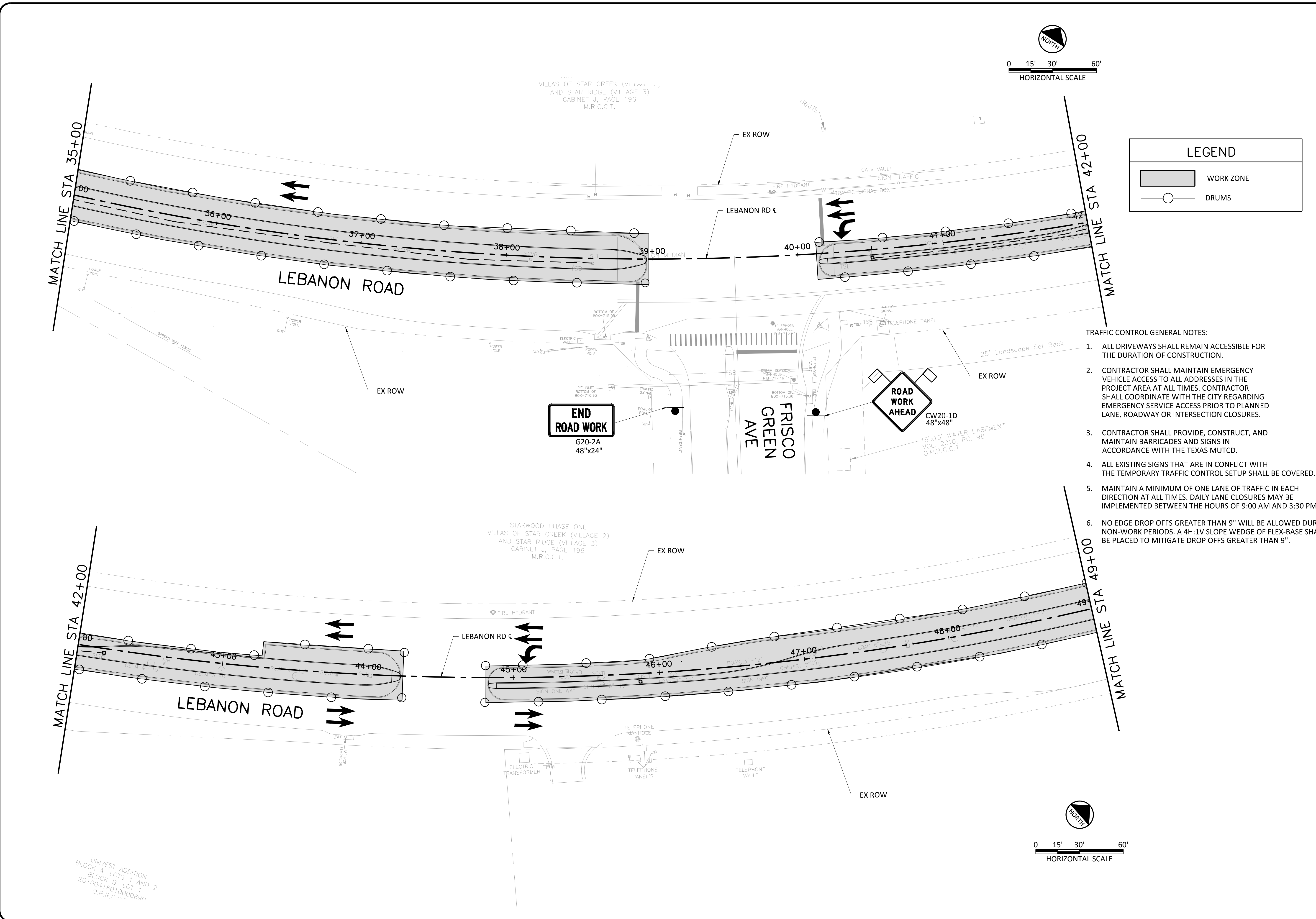
LEBANON ROAD TRAFFIC CONTROL
STA 21+00 TO STA 35+00

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UNIVEST ADDITION
 BLOCK A, LOTS 1 AND 2
 BLOCK B, LOT 1
 2010041601000069
 O.P.R.C.C.T.



LEGEND

WORK ZONE

DRUMS

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 ENGINEER
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 LICENSE NO.

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 Frisco, Texas 75034
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 Fax - (972) 624-9202
 Web - www.freese.com

CITY OF FRISCO, TEXAS

LEBANON ROAD IMPROVEMENTS AND FORCE MAIN

CIVIL

LEBANON ROAD TRAFFIC CONTROL
 STA 35+00 TO STA 49+00

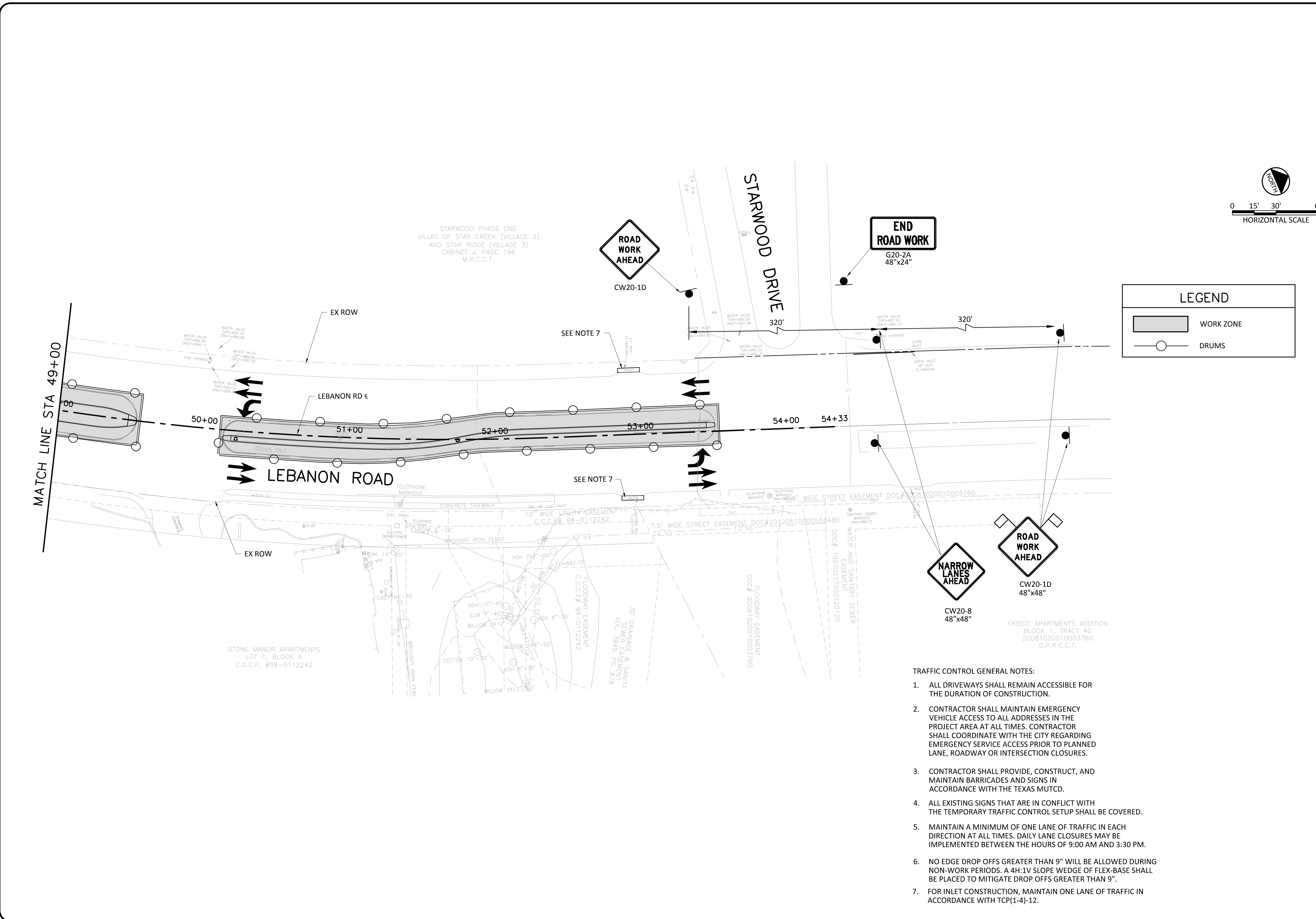
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				FILE NAME	cv-trt-pl-TC1-07

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

VERIFY SCALE 1

SHEET **TC-08**

SEQ. **50**



STARWOOD PHASE ONE
 VILLAS OF STAR CREEK (VILLAGE 2)
 AND STAR RIDGE (VILLAGE 3)
 CABINET J, PAGE 196
 M.R.C.C.T.

STONE MANOR APARTMENTS
 LOT 1, BLOCK A
 C.C.C.F. #98-0112242

- TRAFFIC CONTROL GENERAL NOTES:**
1. ALL DRIVEWAYS SHALL REMAIN ACCESSIBLE FOR THE DURATION OF CONSTRUCTION.
 2. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE ACCESS TO ALL ADDRESSES IN THE PROJECT AREA AT ALL TIMES. CONTRACTOR SHALL COORDINATE WITH THE CITY REGARDING EMERGENCY SERVICE ACCESS PRIOR TO PLANNED LANE, ROADWAY OR INTERSECTION CLOSURES.
 3. CONTRACTOR SHALL PROVIDE, CONSTRUCT, AND MAINTAIN BARRICADES AND SIGNS IN ACCORDANCE WITH THE TEXAS MUTCD.
 4. ALL EXISTING SIGNS THAT ARE IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SETUP SHALL BE COVERED.
 5. MAINTAIN A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION AT ALL TIMES. DAILY LANE CLOSURES MAY BE IMPLEMENTED BETWEEN THE HOURS OF 9:00 AM AND 3:30 PM.
 6. NO EDGE DROP OFFS GREATER THAN 9" WILL BE ALLOWED DURING NON-WORK PERIODS. A 4H:1V SLOPE WEDGE OF FLEX-BASE SHALL BE PLACED TO MITIGATE DROP OFFS GREATER THAN 9".
 7. FOR INLET CONSTRUCTION, MAINTAIN ONE LANE OF TRAFFIC IN ACCORDANCE WITH TCP(1-4)-12.

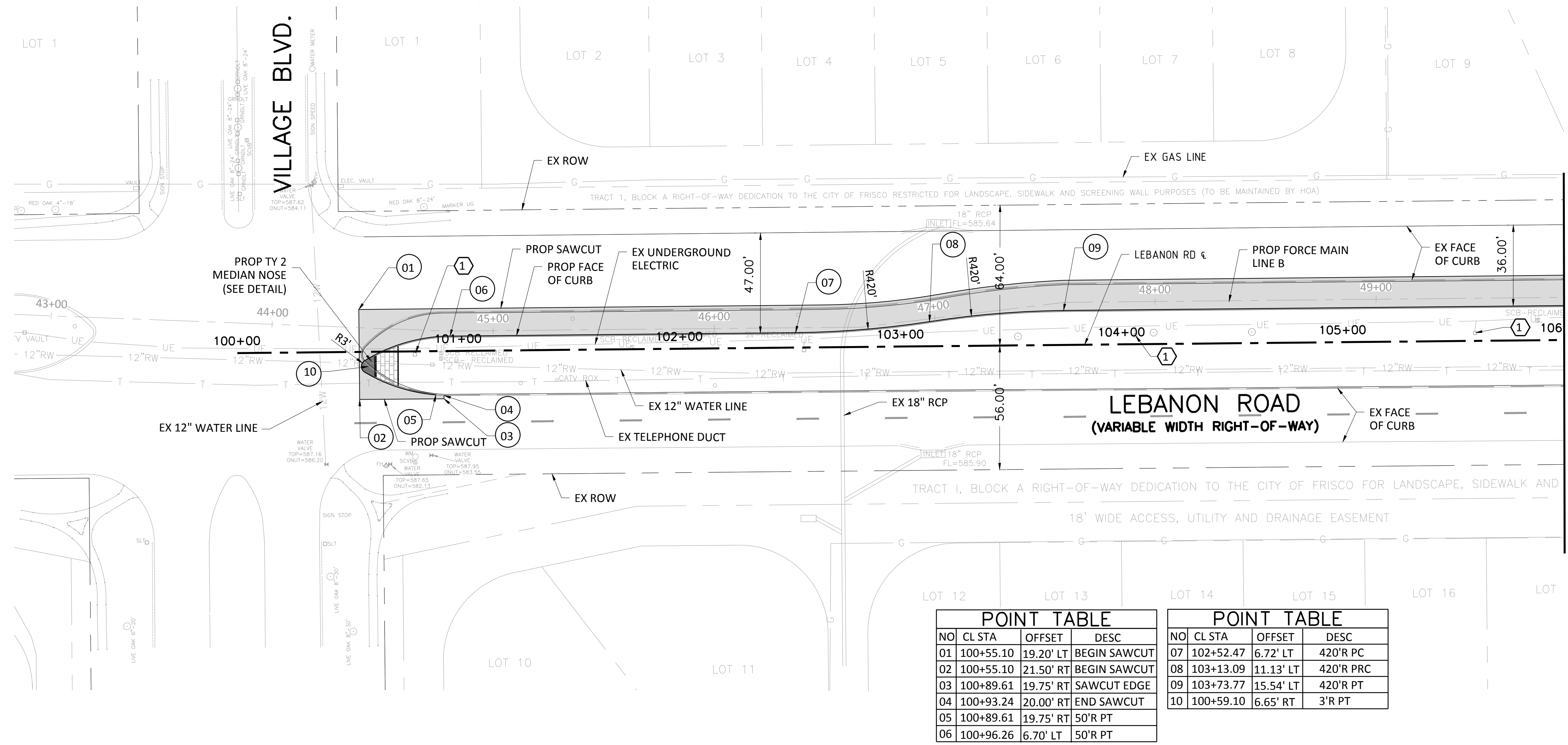
Freese and Nichols, Inc.
 Texas Registered Engineering Firm F-2144

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CITY OF FRISCO, TEXAS
LEBANON ROAD IMPROVEMENTS AND FORCE MAIN
 CIVIL
LEBANON ROAD TRAFFIC CONTROL
 STA 49+00 TO END

NO.	ISSUE	BY	DATE	F&N JOB NO.	FRCL15624
SHEET				DATE	4/2017
SEQ.				DESIGNED	AU
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					TC-09
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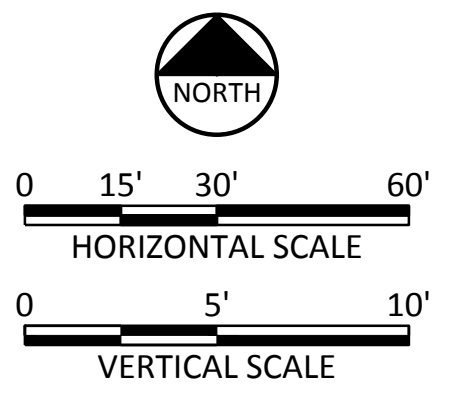
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CAUTION!!!
 EXISTING UNDERGROUND AND
 OVERHEAD UTILITIES IN THE
 AREA. 48 HOURS PRIOR TO
 CONSTRUCTION CONTACT
 1-800-DIG-TESS

NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.
2. SEE LANDSCAPING SHEETS FOR TREE REMOVAL/RELOCATION DETAILS.
3. CONTRACTOR SHALL REPLACE EXISTING UNDERGROUND ELECTRICAL CONDUIT AND WIRE ASSOCIATED WITH THE STREET LIGHTS AS NECESSARY. THE REPLACEMENT CONDUIT AND WIRE SHALL MATCH EXISTING SIZE. IF EXISTING WIRE IS DAMAGED NEW WIRE SHALL BE RAN FROM STREET LIGHT TO STREET LIGHT WITH NO SPLICING ALLOWED. THIS SHALL BE CONSIDERED SUBSIDIARY TO THE FORCE MAIN.



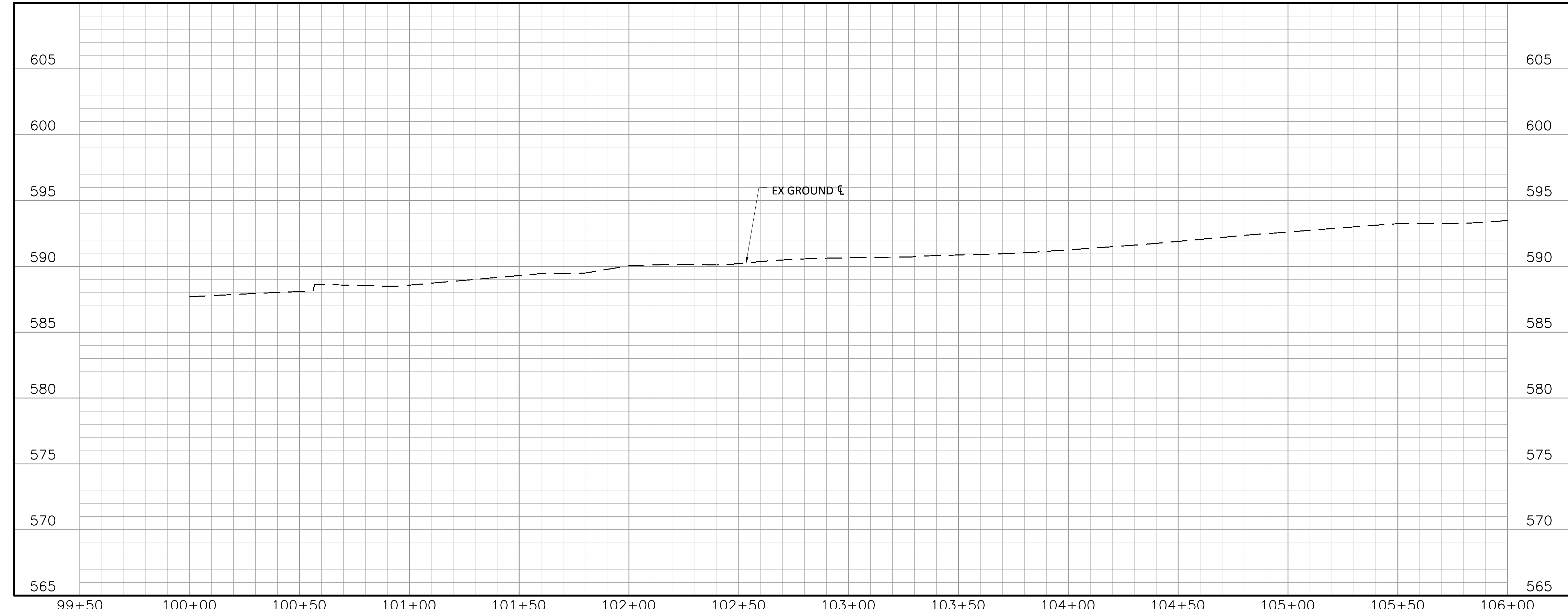
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02	100+55.10	21.50' RT	BEGIN SAWCUT
03	100+89.61	19.75' RT	SAWCUT EDGE
04	100+93.24	20.00' RT	END SAWCUT
05	100+89.61	19.75' RT	50'R PT
06	100+96.26	6.70' LT	50'R PT

POINT TABLE			
NO	CL STA	OFFSET	DESC
07	102+52.47	6.72' LT	420'R PC
08	103+13.09	11.13' LT	420'R PRC
09	103+73.77	15.54' LT	420'R PT
10	100+59.10	6.65' RT	3'R PT

LEGEND

- NEW PAVEMENT
- CONC PAVERS
- ME MATCH EXISTING CROSS SLOPE
- EXISTING ROW
- EXISTING GAS LINE
- EXISTING TELEPHONE DUCT
- EXISTING UNDERGROUND ELECTRIC LINE
- EX TREE

NOTES BY SYMBOL "O"
 THE CONTRACTOR SHALL REMOVE THE EXISTING LIGHT FIXTURES FROM THE POLE AND INSTALL TWO (2) LIGHT FIXTURES PROVIDED BY THE CITY OF FRISCO.
 (1) EXISTING LIGHT POLE TO REMAIN.
 (2) EXISTING LIGHT POLE TO BE RELOCATED.
 ADDITIONAL PULL BOXES, CONDUIT, AND CONDUCTORS NEEDED TO RESTORE FULL OPERATION OF THE LIGHTING SYSTEM, MEETING ALL REQUIREMENTS OF THE NATIONAL ELECTRIC CODE SHALL BE INCLUDED IN THE COST OF POLE RELOCATION.



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05-01-2017

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CITY OF FRISCO, TEXAS

LEBANON ROAD IMPROVEMENTS AND FORCE MAIN

CIVIL

LEBANON ROAD BEGIN TO STA 106+00

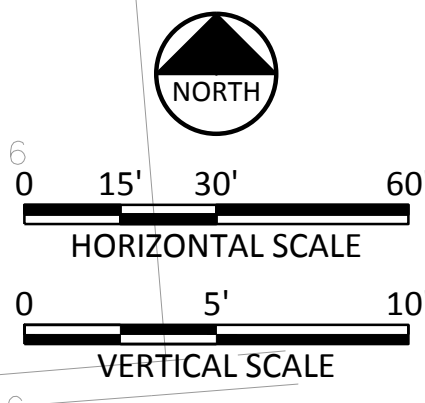
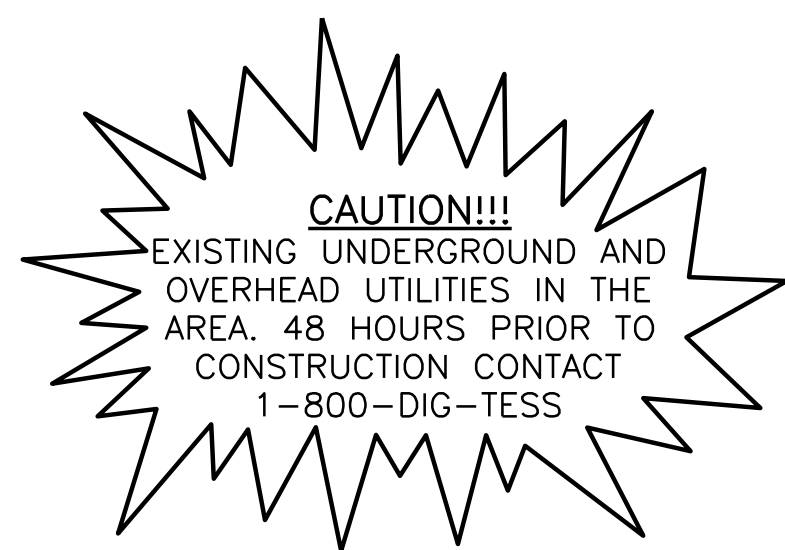
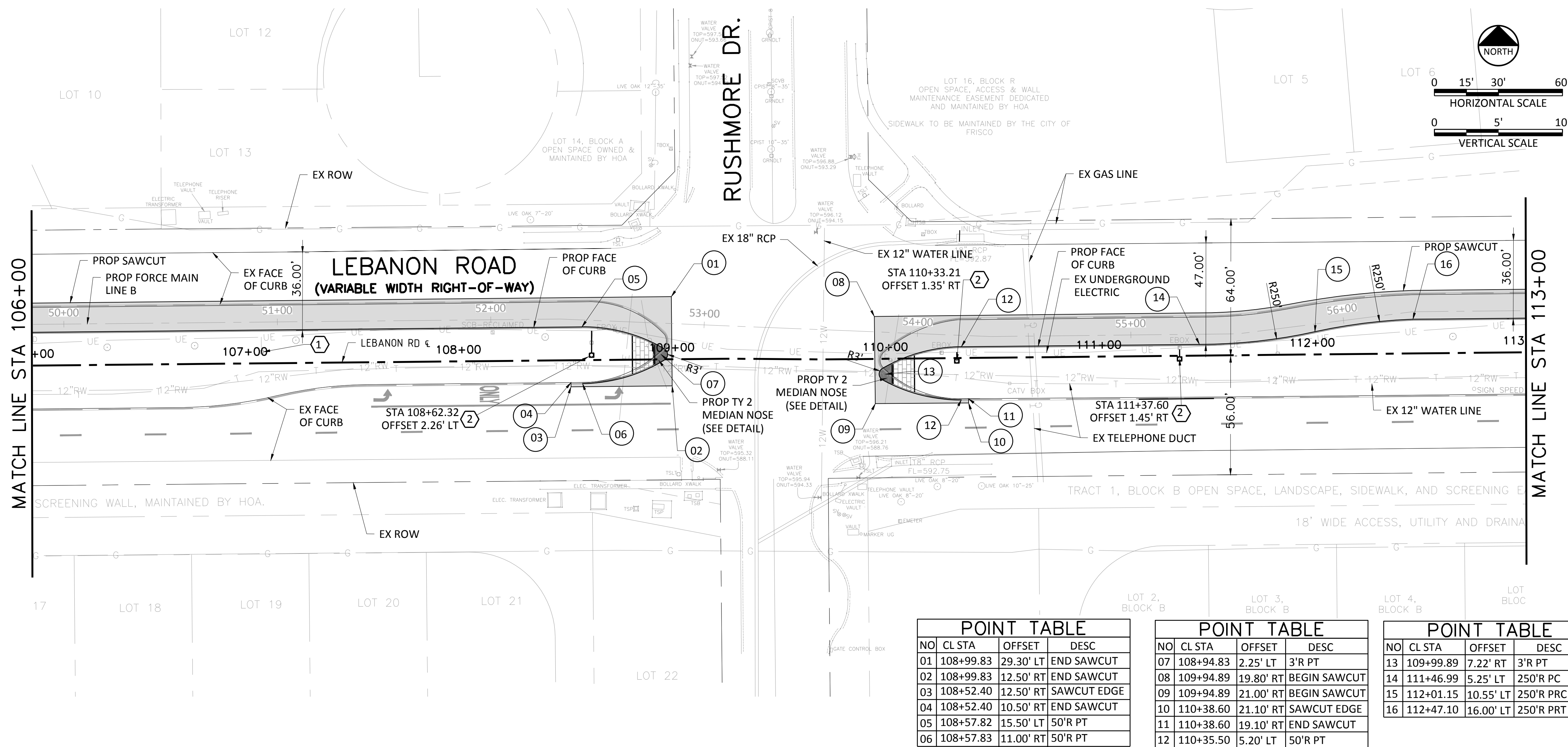
NO.	ISSUE	DATE	BY	FILE NAME
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Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.

SHEET **RD-01**

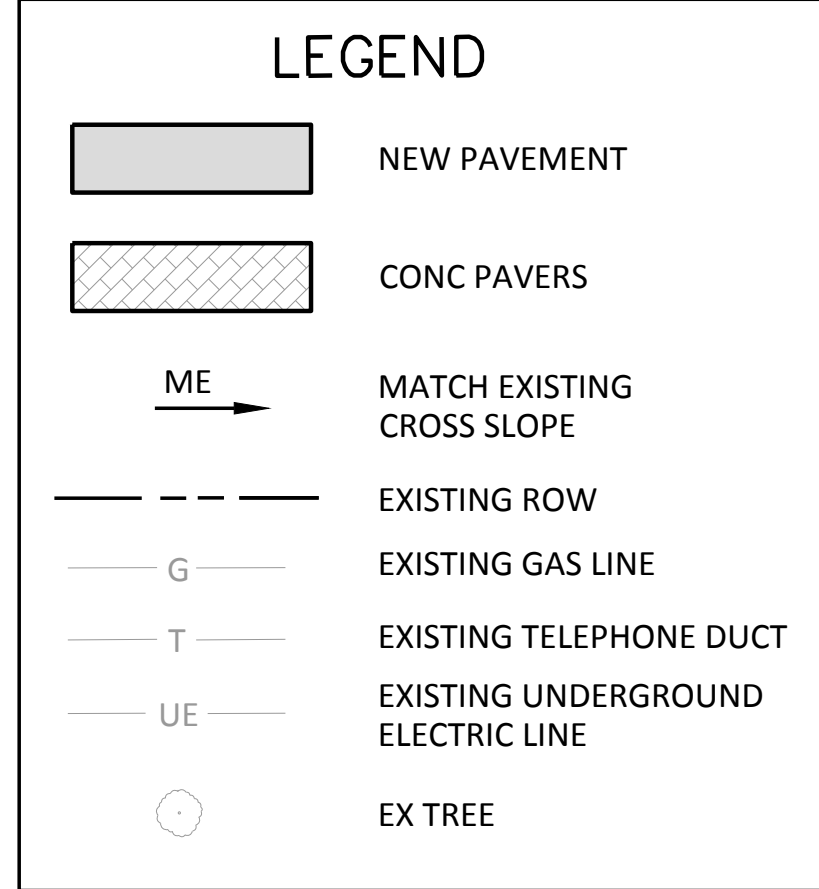
SEQ. **52**

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NOTES:

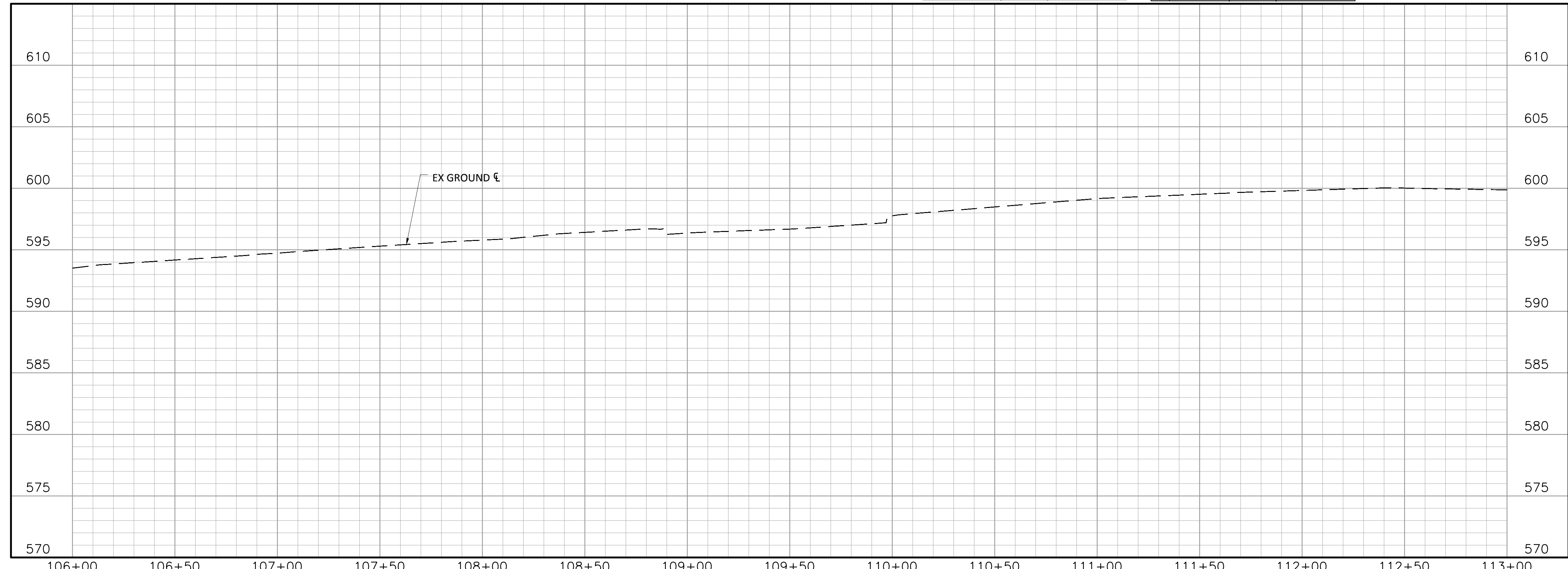
- CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.
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NO	CL STA	OFFSET	DESC
01	108+99.83	29.30' LT	END SAWCUT
02	108+99.83	12.50' RT	END SAWCUT
03	108+52.40	12.50' RT	SAWCUT EDGE
04	108+52.40	10.50' RT	END SAWCUT
05	108+57.82	15.50' LT	50'R PT
06	108+57.83	11.00' RT	50'R PT

NO	CL STA	OFFSET	DESC
07	108+94.83	2.25' LT	3'R PT
08	109+94.89	19.80' RT	BEGIN SAWCUT
09	109+94.89	21.00' RT	BEGIN SAWCUT
10	110+38.60	21.10' RT	SAWCUT EDGE
11	110+38.60	19.10' RT	END SAWCUT
12	110+35.50	5.20' LT	50'R PT

NO	CL STA	OFFSET	DESC
13	109+99.89	7.22' RT	3'R PT
14	111+46.99	5.25' LT	250'R PC
15	112+01.15	10.55' LT	250'R PRC
16	112+47.10	16.00' LT	250'R PRT



NOTES BY SYMBOL "O"

- THE CONTRACTOR SHALL REMOVE THE EXISTING LIGHT FIXTURES FROM THE POLE AND INSTALL TWO (2) LIGHT FIXTURES PROVIDED BY THE CITY OF FRISCO.
- (1) EXISTING LIGHT POLE TO REMAIN.
 - (2) EXISTING LIGHT POLE TO BE RELOCATED.

ADDITIONAL PULL BOXES, CONDUIT, AND CONDUCTORS NEEDED TO RESTORE FULL OPERATION OF THE LIGHTING SYSTEM, MEETING ALL REQUIREMENTS OF THE NATIONAL ELECTRIC CODE SHALL BE INCLUDED IN THE COST OF POLE RELOCATION.

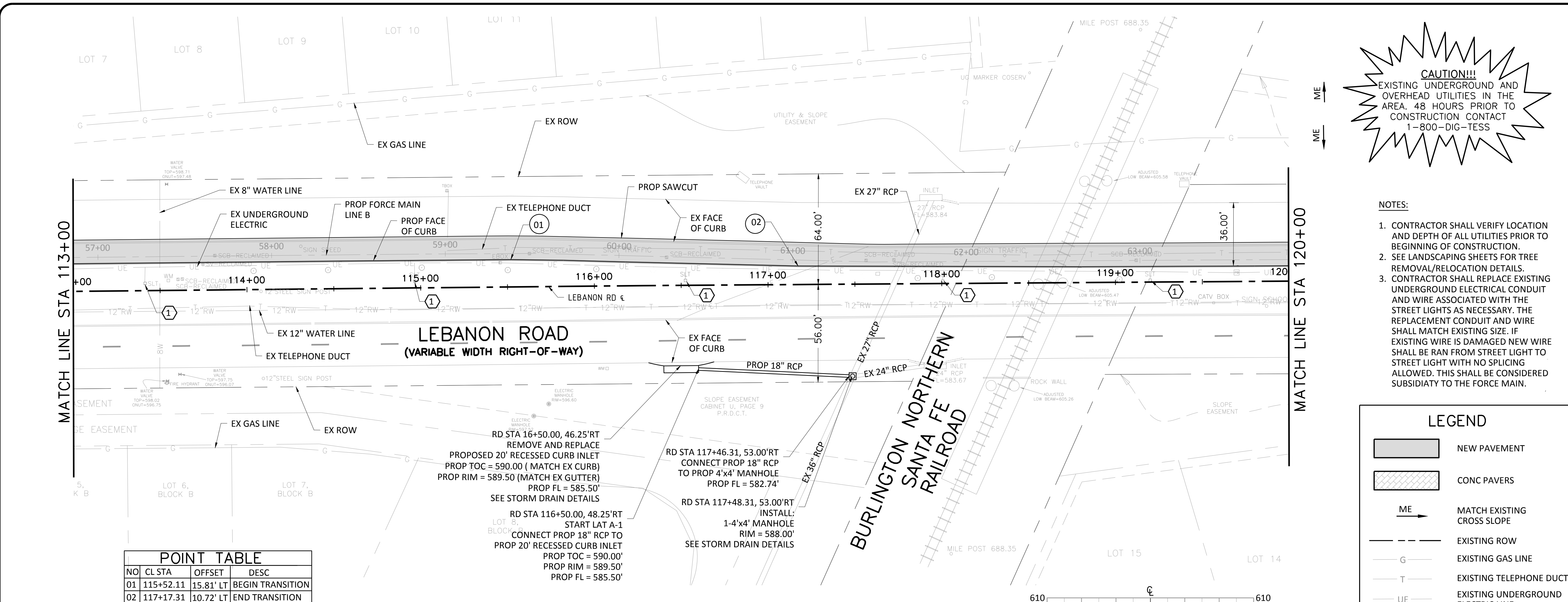


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CITY OF FRISCO, TEXAS
LEBANON ROAD IMPROVEMENTS AND FORCE MAIN
 CIVIL
LEBANON ROAD
STA 106+00 to STA 113+00

NO.	ISSUE	DATE	BY	FILE NAME
0	ISSUE			cv-trt-pp-rd02
VERIFY SCALE: 1" = 10' (Horizontal), 1" = 10' (Vertical) Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.				
SHEET		RD-02		
SEQ.		53		

ACAD Ref: 20.06 (LMS Tech)
 Filename: N:\Drawings\cv-trt-pp-rd03.dwg
 Last Saved: 4/19/2017 1:48 PM. Saved By: sli



CAUTION!!!
 EXISTING UNDERGROUND AND OVERHEAD UTILITIES IN THE AREA. 48 HOURS PRIOR TO CONSTRUCTION CONTACT 1-800-DIG-TESS

Freese and Nichols, Inc.
 Texas Registered Engineering Firm F-2144

05-01-2017

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CITY OF FRISCO, TEXAS
LEBANON ROAD IMPROVEMENTS AND FORCE MAIN
 CIVIL
LEBANON ROAD
STA 113+00 TO STA 120+00

- NOTES:**
- CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.
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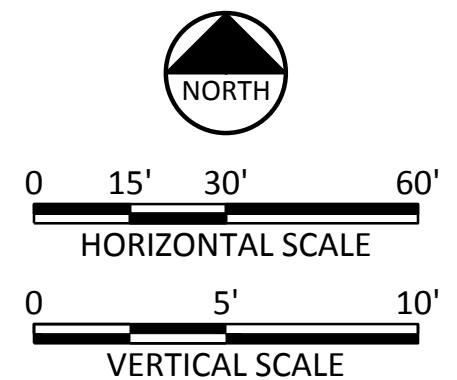
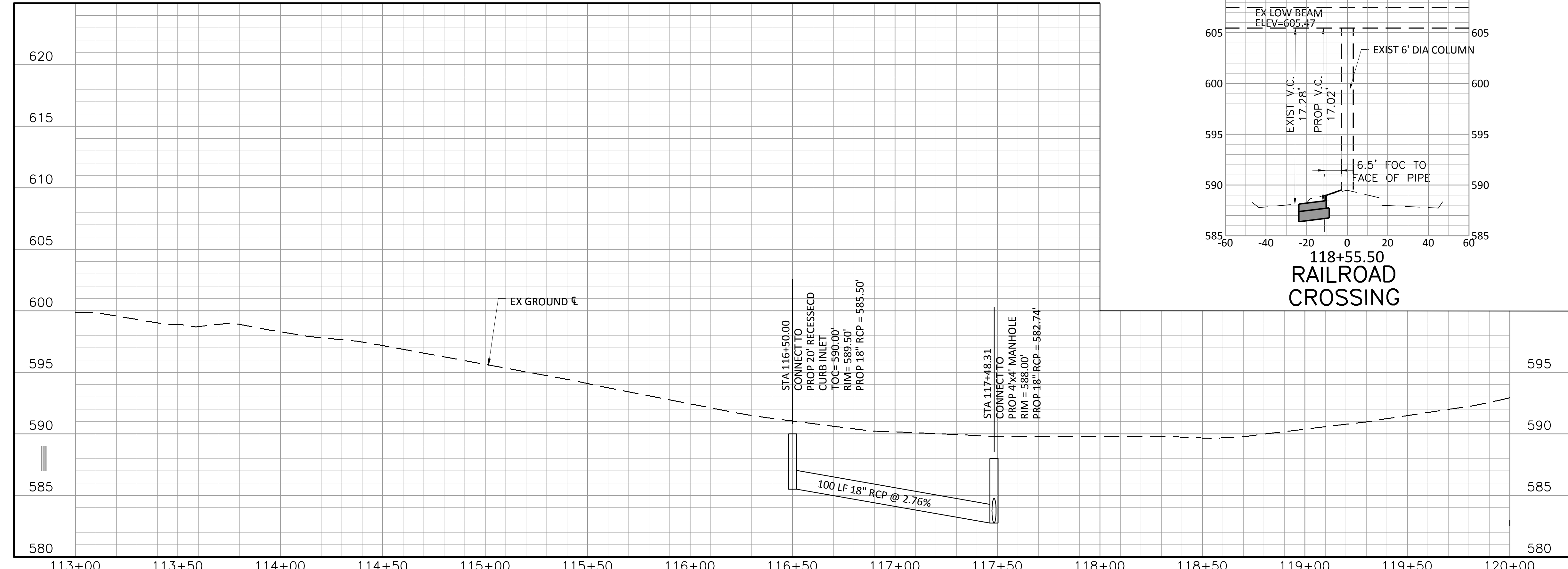
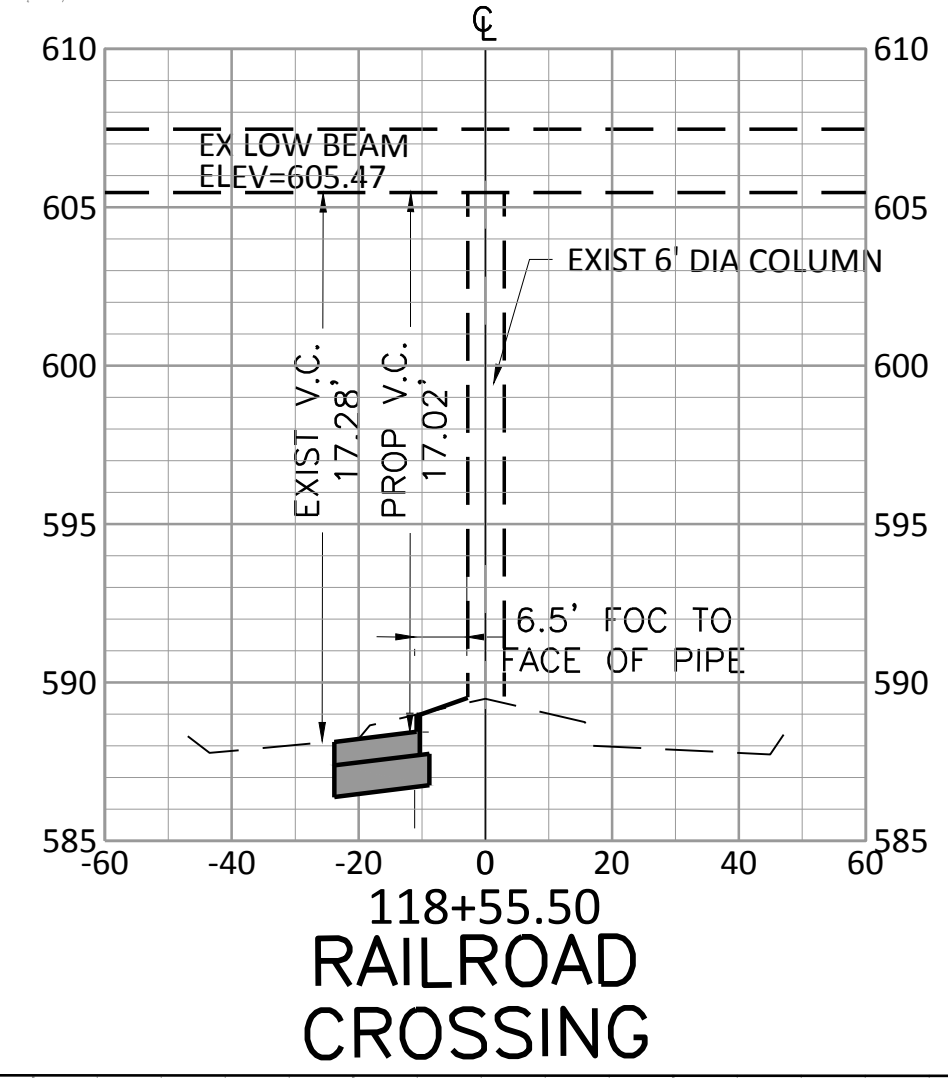
LEGEND

- NEW PAVEMENT
- CONC PAVERS
- ME → MATCH EXISTING CROSS SLOPE
- EXISTING ROW
- G EXISTING GAS LINE
- T EXISTING TELEPHONE DUCT
- UE EXISTING UNDERGROUND ELECTRIC LINE
- EX TREE

- NOTES BY SYMBOL "O"**
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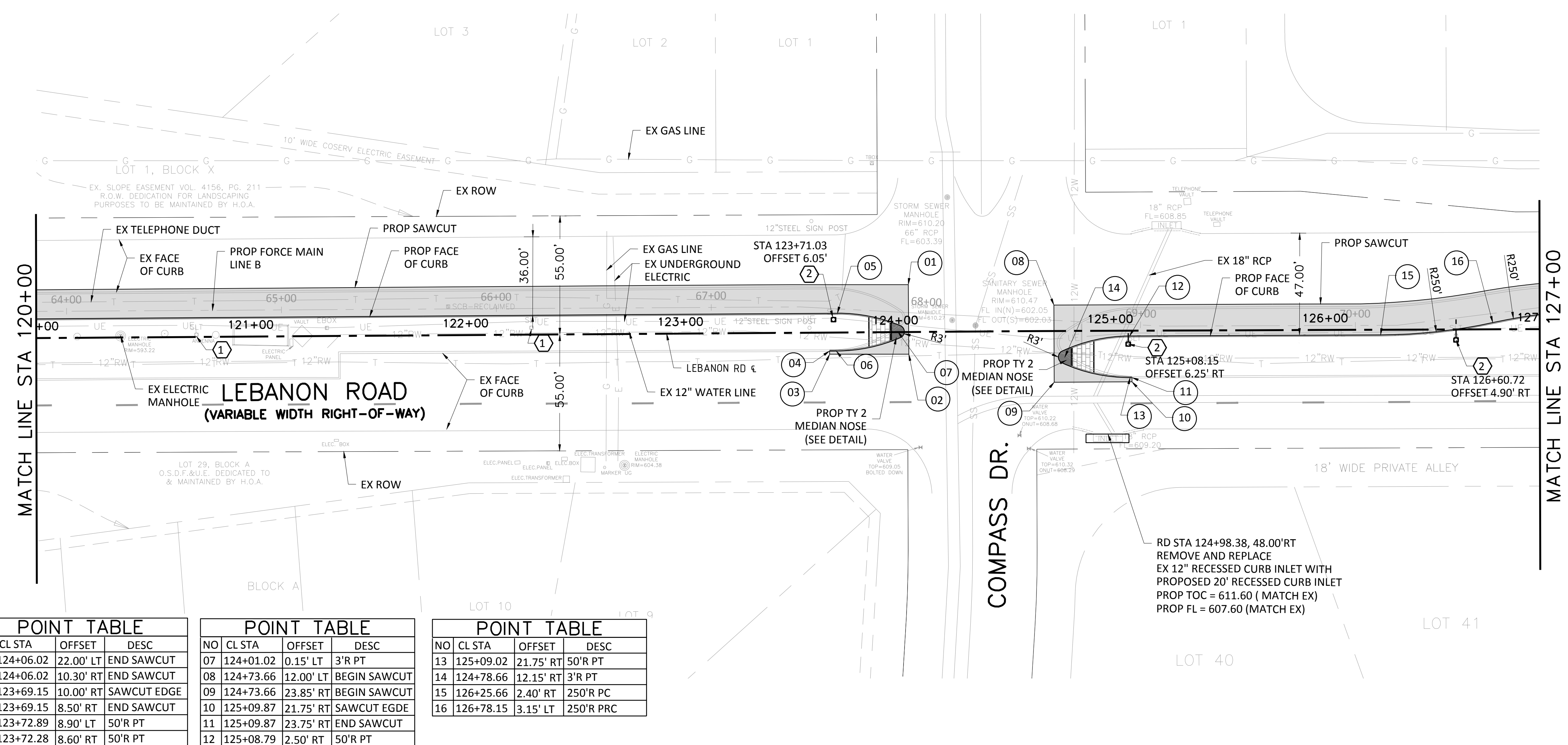
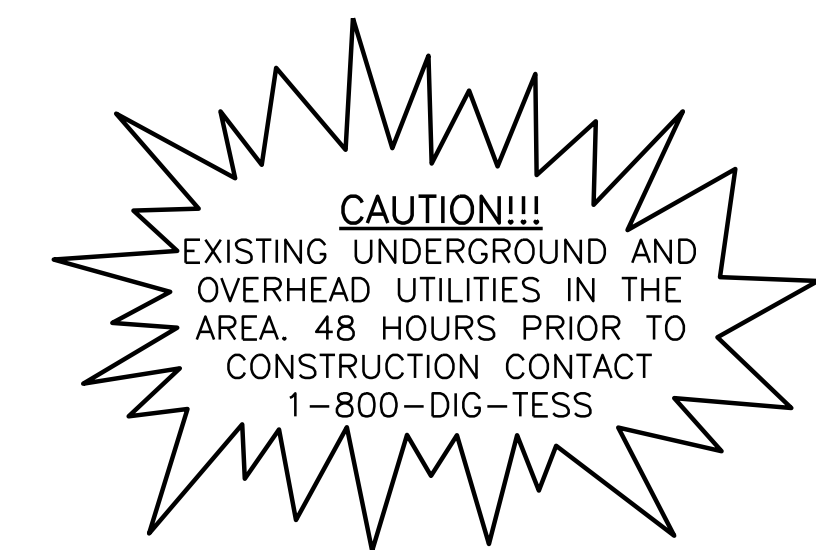
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02	117+17.31	10.72' LT	END TRANSITION



NO.	ISSUE	DATE	BY	FILE NAME
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1				

SHEET **RD-03**
 SEQ. **54**



- NOTES:**
- CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.
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LEGEND

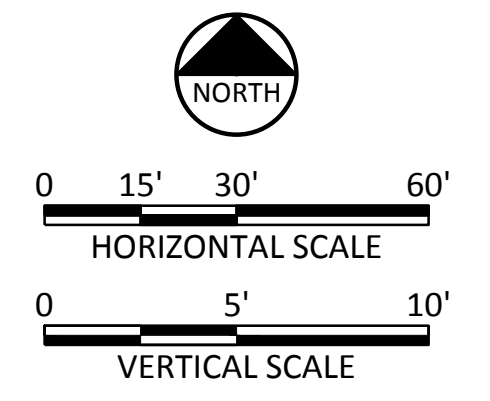
- NEW PAVEMENT
- CONC PAVERS
- ME → MATCH EXISTING CROSS SLOPE
- EXISTING ROW
- EXISTING GAS LINE
- EXISTING TELEPHONE DUCT
- EXISTING UNDERGROUND ELECTRIC LINE
- EX TREE

NOTES BY SYMBOL "O"

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POINT TABLE

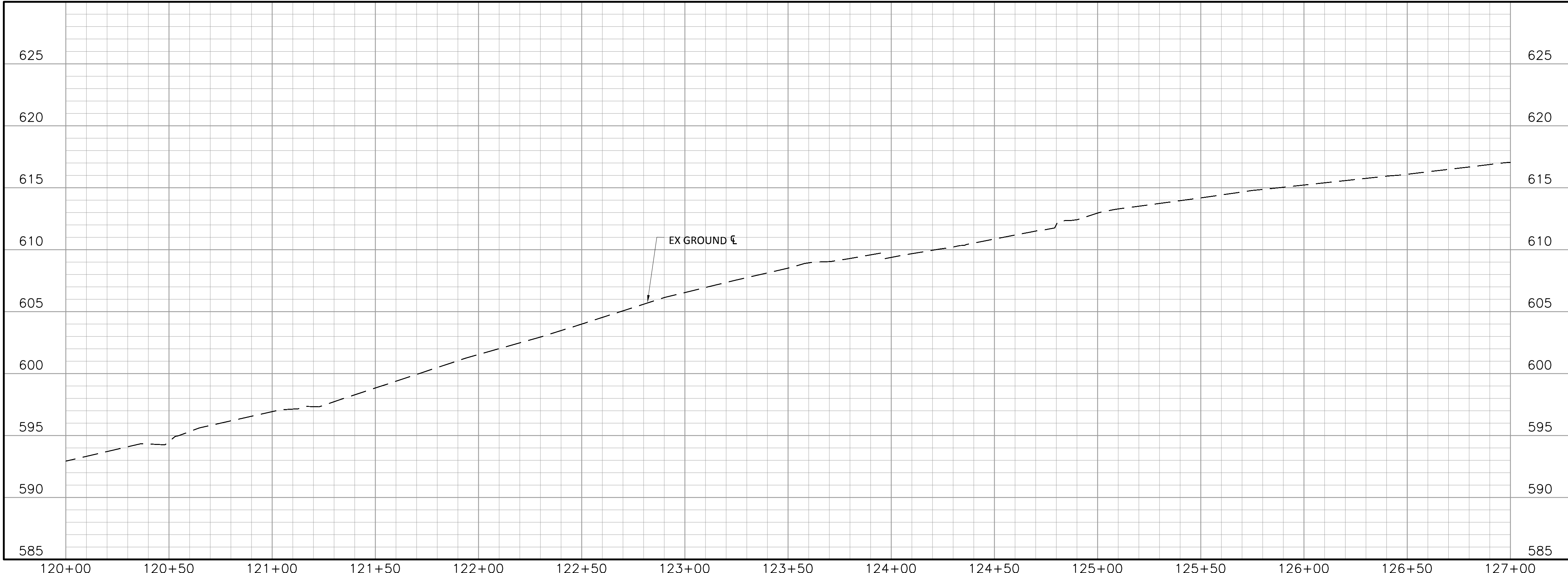
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01	124+06.02	22.00' LT	END SAWCUT
02	124+06.02	10.30' RT	END SAWCUT
03	123+69.15	10.00' RT	SAWCUT EDGE
04	123+69.15	8.50' RT	END SAWCUT
05	123+72.89	8.90' LT	50'R PT
06	123+72.28	8.60' RT	50'R PT

POINT TABLE

NO	CL STA	OFFSET	DESC
07	124+01.02	0.15' LT	3'R PT
08	124+73.66	12.00' LT	BEGIN SAWCUT
09	124+73.66	23.85' RT	BEGIN SAWCUT
10	125+09.87	21.75' RT	SAWCUT EGDE
11	125+09.87	23.75' RT	END SAWCUT
12	125+08.79	2.50' RT	50'R PT

POINT TABLE

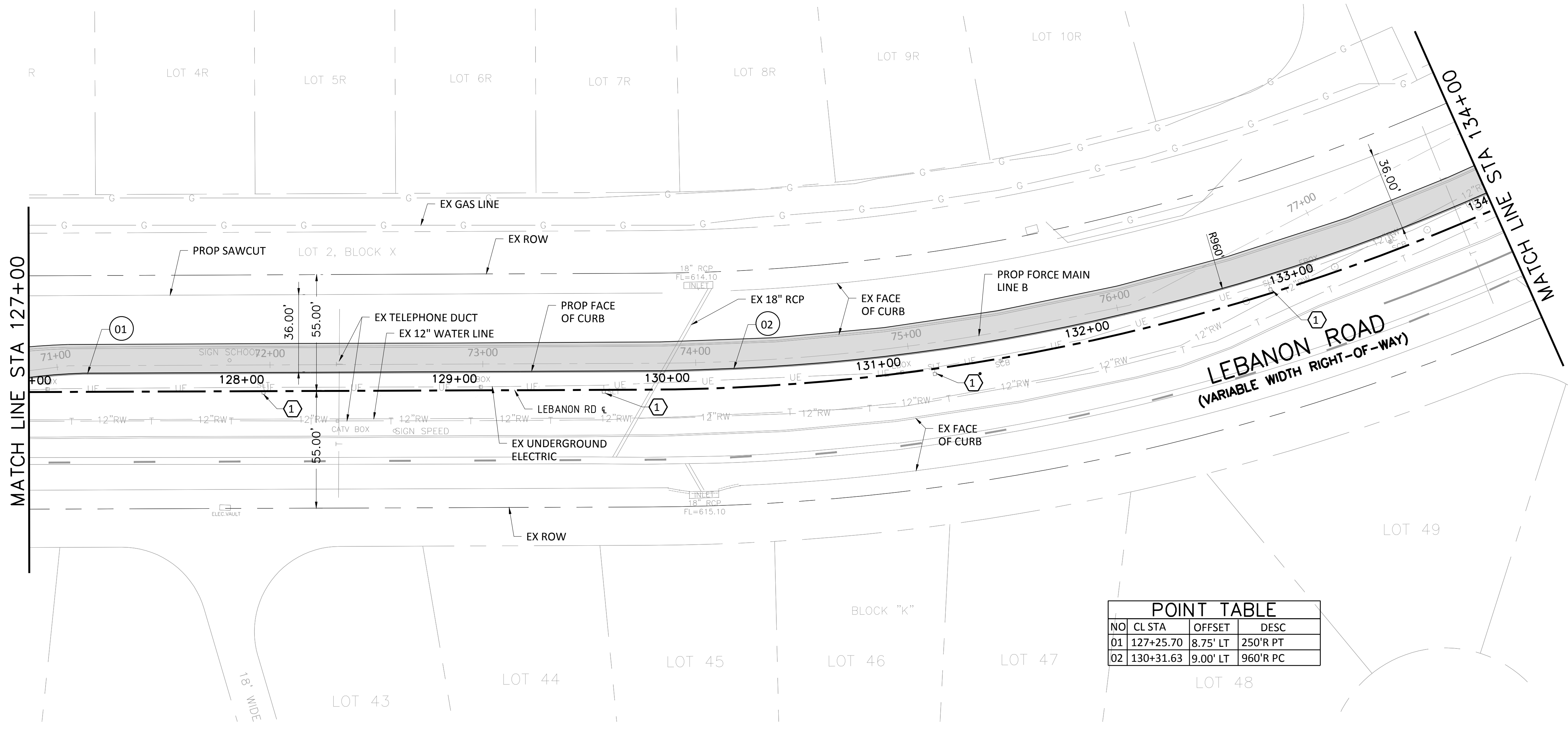
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13	125+09.02	21.75' RT	50'R PT
14	124+78.66	12.15' RT	3'R PT
15	126+25.66	2.40' RT	250'R PC
16	126+78.15	3.15' LT	250'R PRC



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CITY OF FRISCO, TEXAS
LEBANON ROAD IMPROVEMENTS AND FORCE MAIN
 CIVIL
LEBANON ROAD
STA 120+00 TO STA 127+00

NO.	ISSUE	DATE	BY	DESIGNED	DRAWN	REVIEWED	CHECKED	FILE NAME
								cv-trt-pp-rd04
VERIFY SCALE: Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.								
SHEET RD-04 SEQ. 55								



CAUTION!!!
 EXISTING UNDERGROUND AND OVERHEAD UTILITIES IN THE AREA. 48 HOURS PRIOR TO CONSTRUCTION CONTACT 1-800-DIG-TESS

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POINT TABLE			
NO	CL STA	OFFSET	DESC
01	127+25.70	8.75' LT	250'R PT
02	130+31.63	9.00' LT	960'R PC

LEGEND

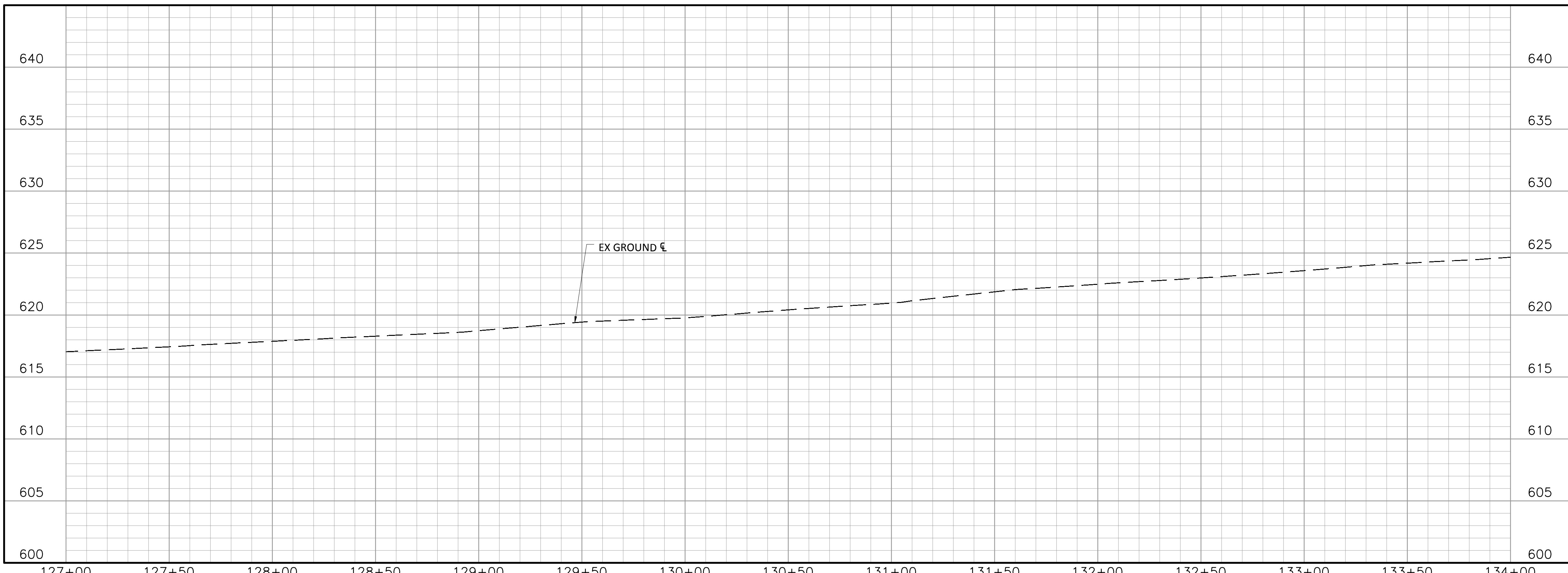
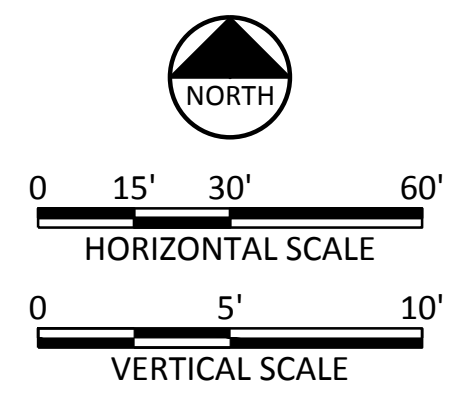
- NEW PAVEMENT
- CONC PAVERS
- MATCH EXISTING CROSS SLOPE
- EXISTING ROW
- EXISTING GAS LINE
- EXISTING TELEPHONE DUCT
- EXISTING UNDERGROUND ELECTRIC LINE
- EX TREE

NOTES BY SYMBOL "O"

THE CONTRACTOR SHALL REMOVE THE EXISTING LIGHT FIXTURES FROM THE POLE AND INSTALL TWO (2) LIGHT FIXTURES PROVIDED BY THE CITY OF FRISCO.

① EXISTING LIGHT POLE TO REMAIN.
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05-01-2017

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CITY OF FRISCO, TEXAS

LEBANON ROAD IMPROVEMENTS AND FORCE MAIN

CIVIL

LEBANON ROAD
 STA 127+00 TO STA 134+00

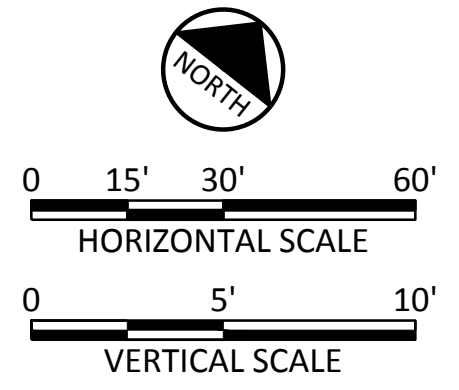
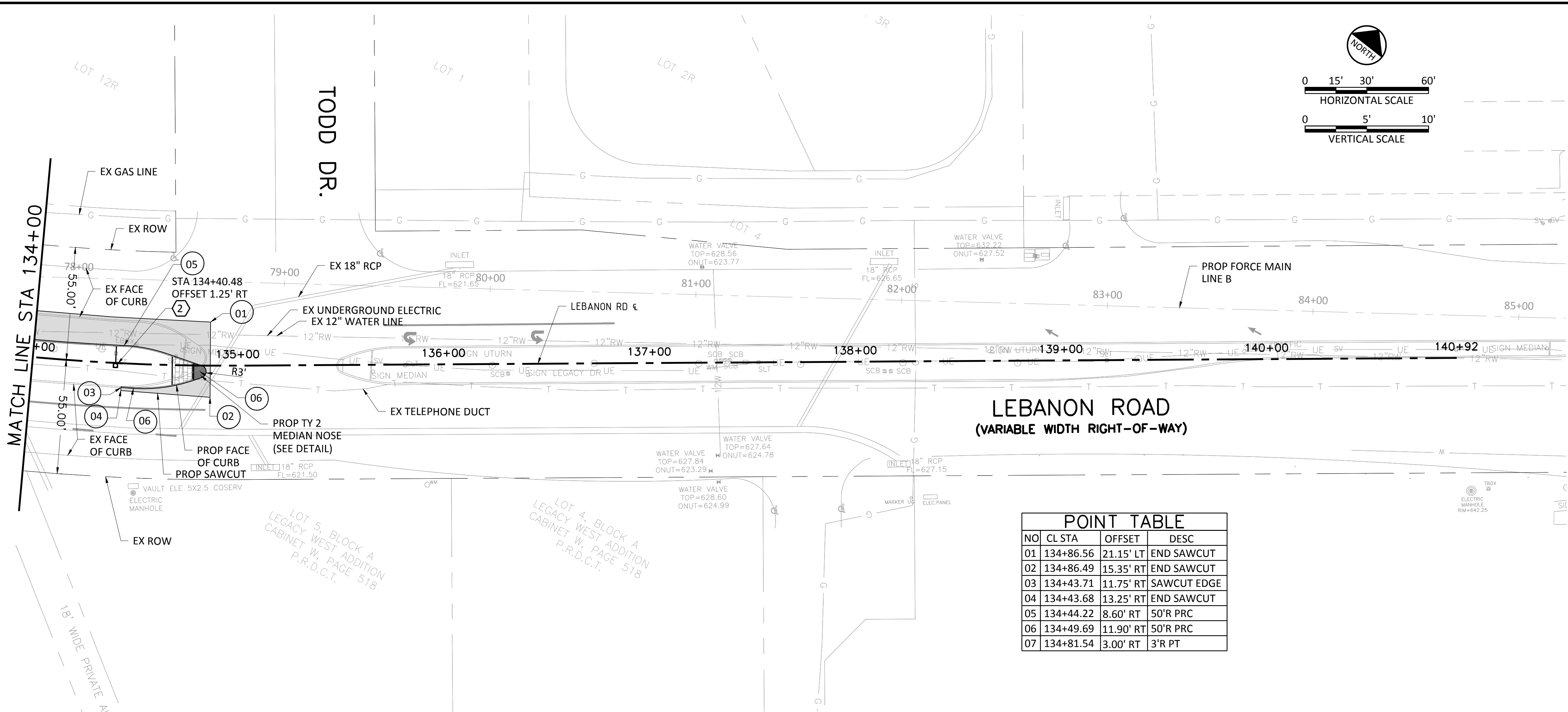
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Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.

SHEET **RD-05**

SEQ. **56**

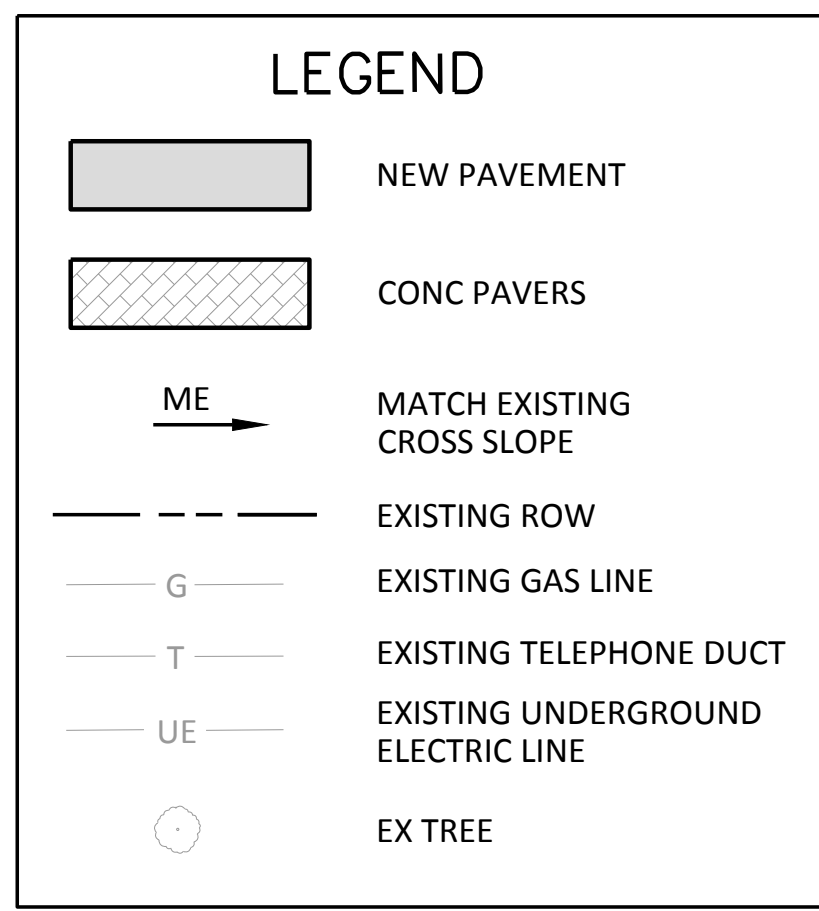
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CAUTION!!!
 EXISTING UNDERGROUND AND OVERHEAD UTILITIES IN THE AREA. 48 HOURS PRIOR TO CONSTRUCTION CONTACT 1-800-DIG-TESS

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POINT TABLE			
NO	CL STA	OFFSET	DESC
01	134+86.56	21.15' LT	END SAWCUT
02	134+86.49	15.35' RT	END SAWCUT
03	134+43.71	11.75' RT	SAWCUT EDGE
04	134+43.68	13.25' RT	END SAWCUT
05	134+44.22	8.60' RT	50'R PRC
06	134+49.69	11.90' RT	50'R PRC
07	134+81.54	3.00' RT	3'R PT

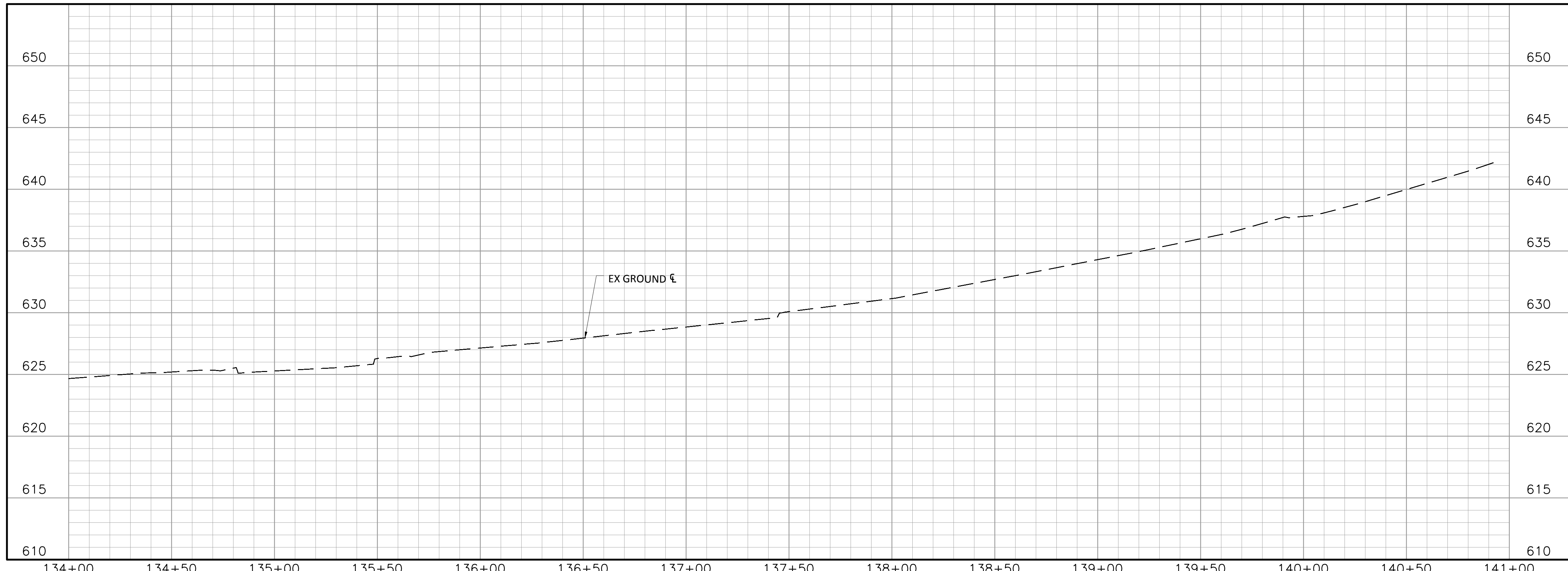


NOTES BY SYMBOL "O"

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CITY OF FRISCO, TEXAS

LEBANON ROAD IMPROVEMENTS AND FORCE MAIN

CIVIL

LEBANON ROAD
 STA 134+00 TO STA 140+92

NO.	ISSUE	DATE	BY	FILE NAME
0	ISSUE			CV-FRT-PP-RD06

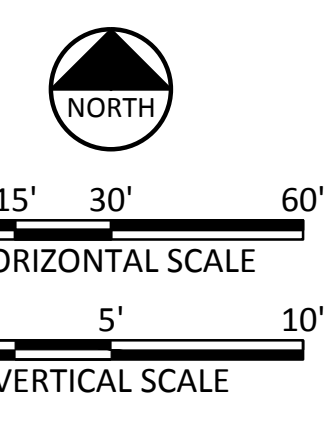
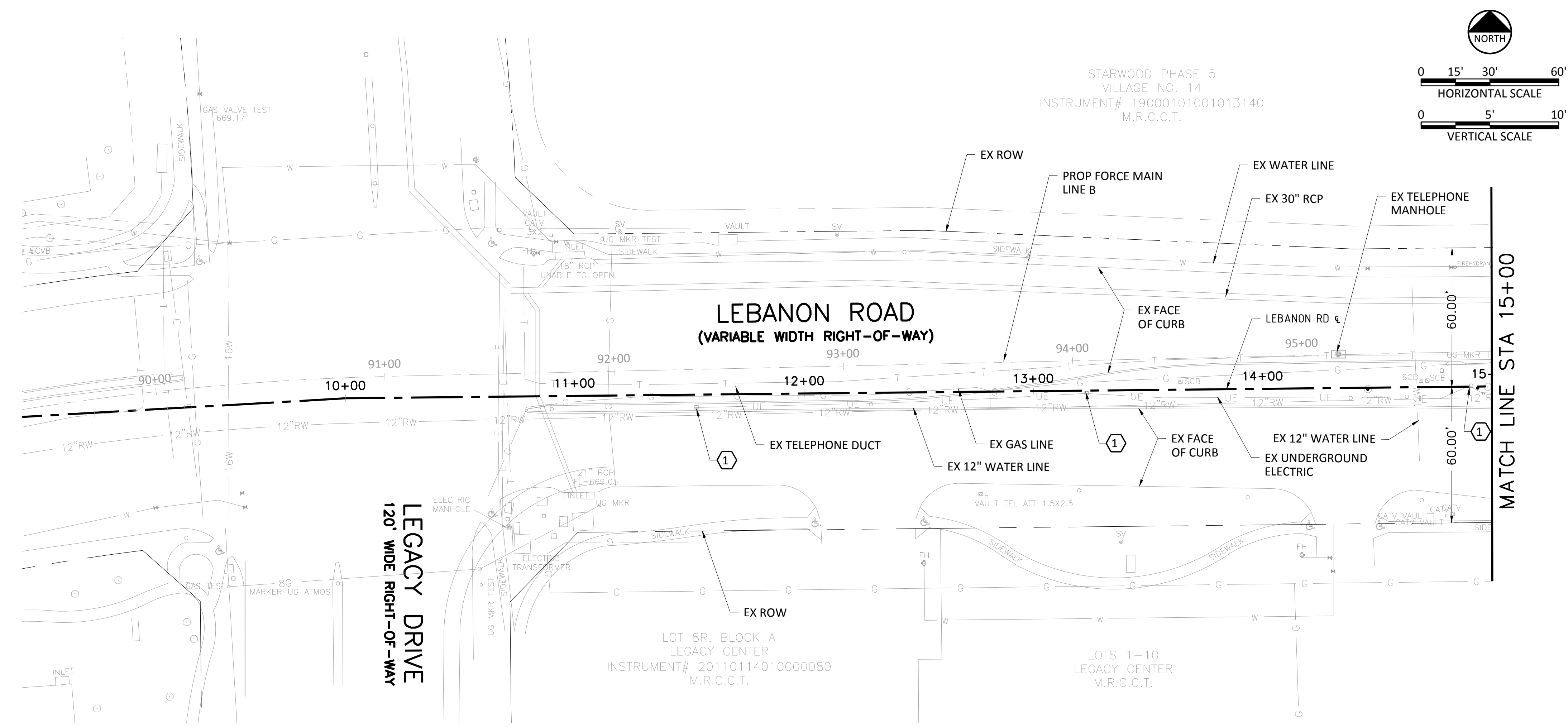
FRCL15624
 DATE: 4/2017
 DESIGNED: AU
 DRAWN: SI
 REVISIONS: 0

RD-06

SEQ. 57

ACAD Ref: 2016 (LMS Tech)
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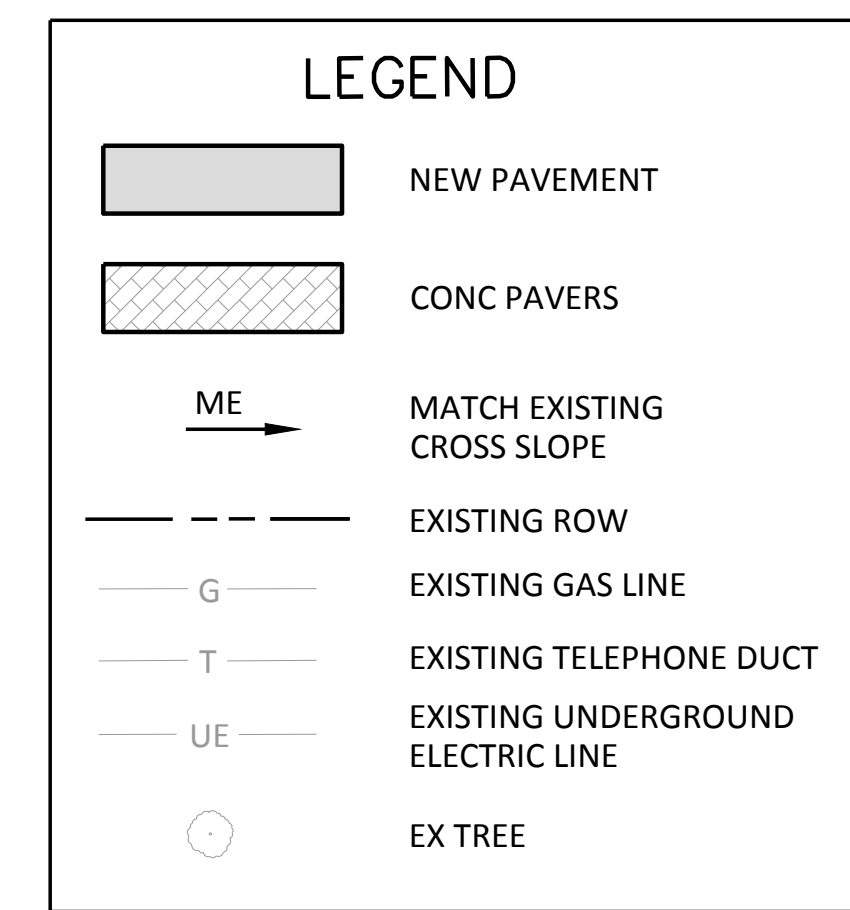
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CAUTION!!!
 EXISTING UNDERGROUND AND
 OVERHEAD UTILITIES IN THE
 AREA. 48 HOURS PRIOR TO
 CONSTRUCTION CONTACT
 1-800-DIG-TESS

NOTES:

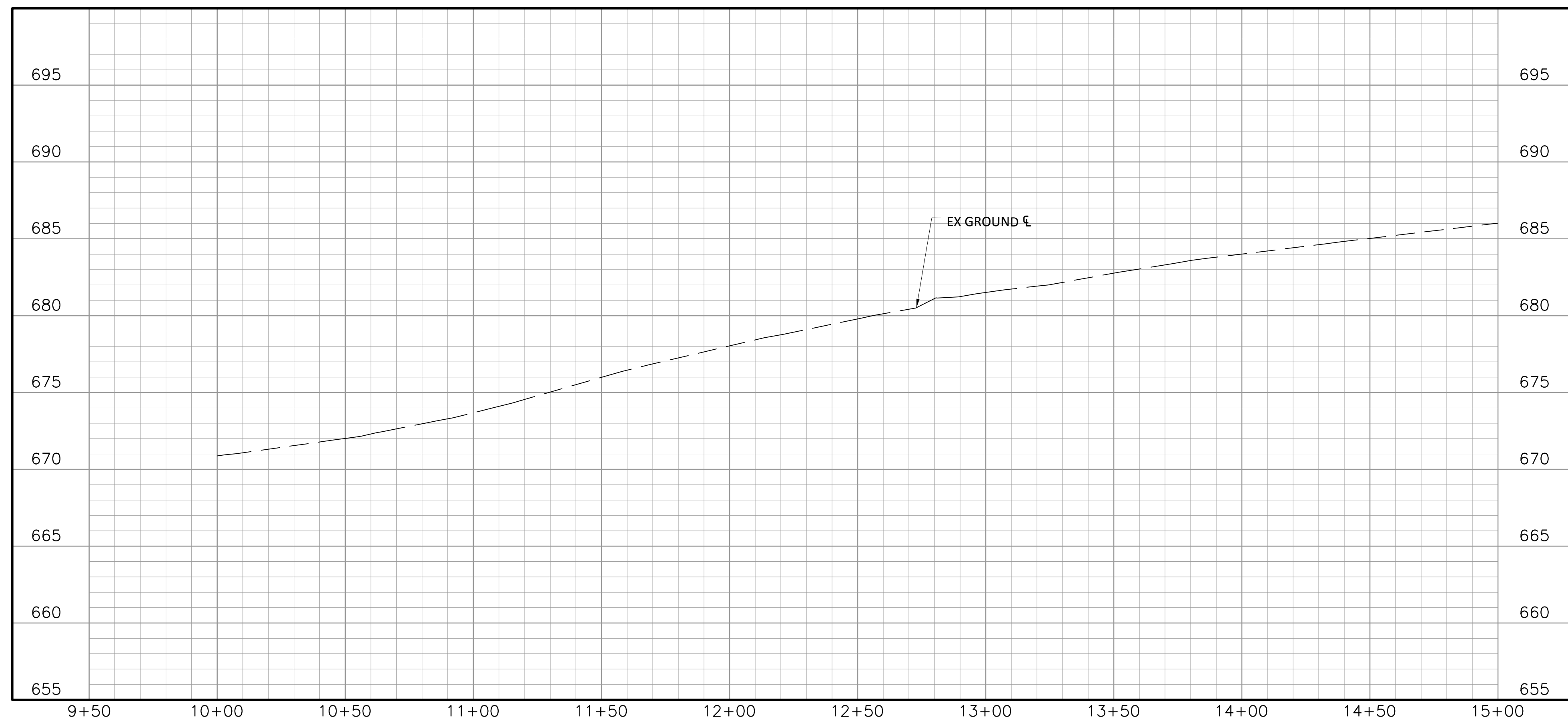
- CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.
- SEE LANDSCAPING SHEETS FOR TREE REMOVAL/RELOCATION DETAILS.
- CONTRACTOR SHALL REPLACE EXISTING UNDERGROUND ELECTRICAL CONDUIT AND WIRE ASSOCIATED WITH THE STREET LIGHTS AS NECESSARY. THE REPLACEMENT CONDUIT AND WIRE SHALL MATCH EXISTING SIZE. IF EXISTING WIRE IS DAMAGED NEW WIRE SHALL BE RAN FROM STREET LIGHT TO STREET LIGHT WITH NO SPLICING ALLOWED. THIS SHALL BE CONSIDERED SUBSIDIARY TO THE FORCE MAIN.



NOTES BY SYMBOL "O"

- THE CONTRACTOR SHALL REMOVE THE EXISTING LIGHT FIXTURES FROM THE POLE AND INSTALL TWO (2) LIGHT FIXTURES PROVIDED BY THE CITY OF FRISCO.
- (1) EXISTING LIGHT POLE TO REMAIN.
 - (2) EXISTING LIGHT POLE TO BE RELOCATED.

ADDITIONAL PULL BOXES, CONDUIT, AND CONDUCTORS NEEDED TO RESTORE FULL OPERATION OF THE LIGHTING SYSTEM, MEETING ALL REQUIREMENTS OF THE NATIONAL ELECTRIC CODE SHALL BE INCLUDED IN THE COST OF POLE RELOCATION.



Freese and Nichols, Inc.
 Texas Registered Engineering Firm F-2144

05-01-2017

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 Web - www.freese.com

CITY OF FRISCO, TEXAS

LEBANON ROAD IMPROVEMENTS AND FORCE MAIN

CIVIL

LEBANON ROAD BEGIN TO STA 15+00

NO.	ISSUE	DATE	BY	FILE NAME
				cv-trt-pp-RD07

FRJ JOB NO.	DATE	DESIGNED	DRAWN	CHECKED
FRCL15624	4/2017	AU	SI	

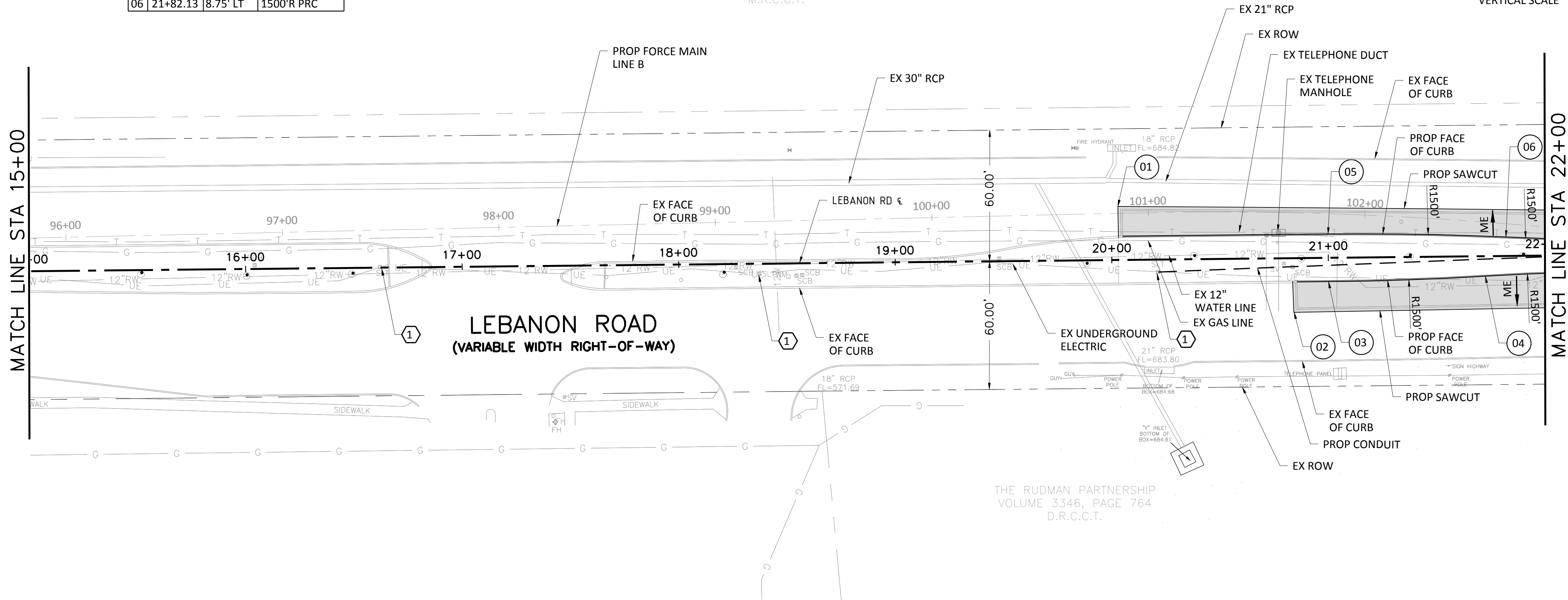
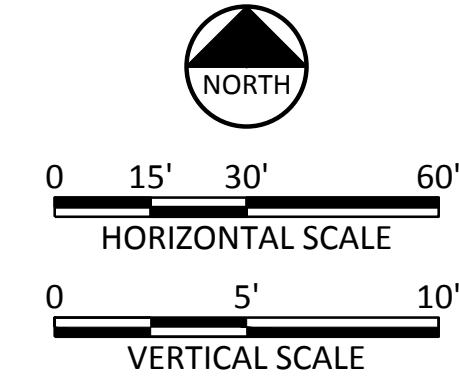
VERIFY SCALE: 1" = 10' (Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.)

SHEET **RD-07**

SEQ. **58**

NO	CL STA	OFFSET	DESC
01	20+03.07	24.72' LT	BEGIN SAWCUT
02	20+83.82	24.99' RT	BEGIN SAWCUT
03	21+00.00	11.00' RT	1500'R PC
04	21+72.44	9.25' RT	1500'R PRC
05	21+00.00	11.00' LT	1500'R PC
06	21+82.13	8.75' LT	1500'R PRC

STARWOOD PHASE 5
VILLAGE NO. 14
INSTRUMENT# 19000101001013140
M.R.C.C.T.



NOTES:

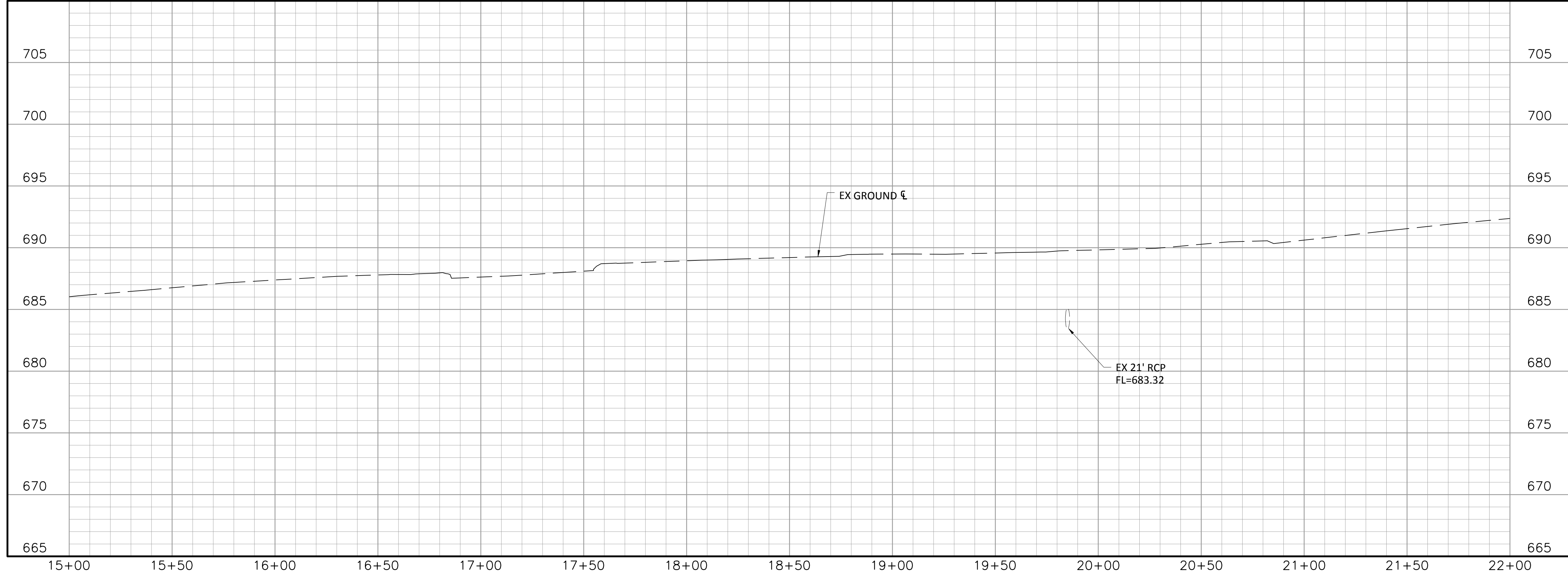
- CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.
- SEE LANDSCAPING SHEETS FOR TREE REMOVAL/RELOCATION DETAILS.
- CONTRACTOR SHALL REPLACE EXISTING UNDERGROUND ELECTRICAL CONDUIT AND WIRE ASSOCIATED WITH THE STREET LIGHTS AS NECESSARY. THE REPLACEMENT CONDUIT AND WIRE SHALL MATCH EXISTING SIZE. IF EXISTING WIRE IS DAMAGED NEW WIRE SHALL BE RAN FROM STREET LIGHT TO STREET LIGHT WITH NO SPLICING ALLOWED. THIS SHALL BE CONSIDERED SUBSIDIARY TO THE FORCE MAIN.

LEGEND

	NEW PAVEMENT
	CONC PAVERS
	PROPOSED CONDUIT
	MATCH EXISTING CROSS SLOPE
	EXISTING ROW
	EXISTING GAS LINE
	EXISTING TELEPHONE DUCT
	EXISTING UNDERGROUND ELECTRIC LINE
	EX TREE

NOTES BY SYMBOL "O"

- THE CONTRACTOR SHALL REMOVE THE EXISTING LIGHT FIXTURES FROM THE POLE AND INSTALL TWO (2) LIGHT FIXTURES PROVIDED BY THE CITY OF FRISCO.
- (1) EXISTING LIGHT POLE TO REMAIN.
 - (2) EXISTING LIGHT POLE TO BE RELOCATED.
- ADDITIONAL PULL BOXES, CONDUIT, AND CONDUCTORS NEEDED TO RESTORE FULL OPERATION OF THE LIGHTING SYSTEM, MEETING ALL REQUIREMENTS OF THE NATIONAL ELECTRIC CODE SHALL BE INCLUDED IN THE COST OF POLE RELOCATION.



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CITY OF FRISCO, TEXAS

LEBANON ROAD IMPROVEMENTS AND FORCE MAIN

CIVIL
LEBANON ROAD
STA 15+00 TO STA 22+00

NO.	ISSUE	DATE	BY	FILE NAME
0				cv-rrt-pp-rd08
1				

VERIFY SCALE: 1" = 10' (Horizontal), 1" = 10' (Vertical)

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

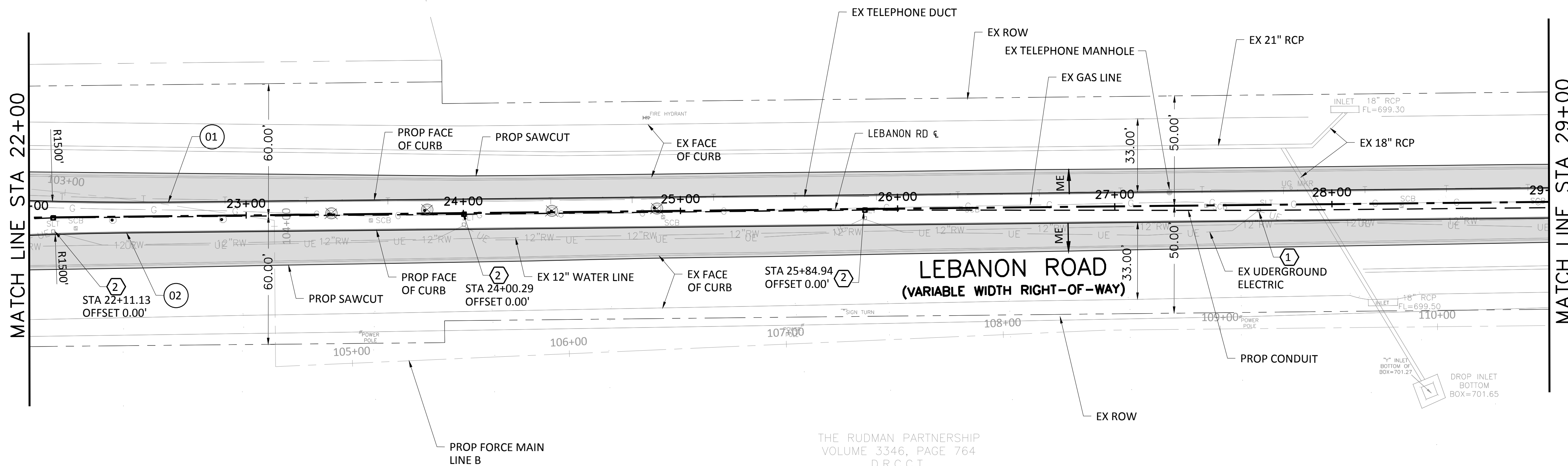
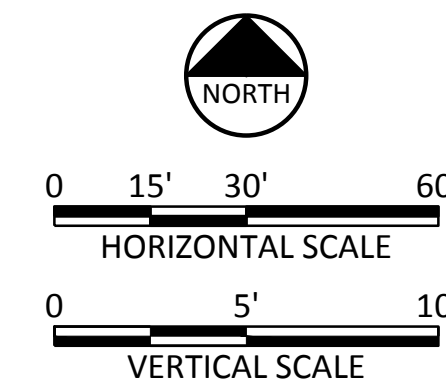
SHEET: RD-08

SEQ: 59

STARWOOD PHASE 5
VILLAGE NO. 14
INSTRUMENT# 19000101001013140
M.R.C.C.T.

STARWOOD PHASE ONE
VILLAS OF STAR CREEK (VILLAGE 2)
AND STAR RIDGE (VILLAGE 3)
CABINET J, PAGE 196
M.R.C.C.T.

NO	CL STA	OFFSET	DESC
01	22+64.26	6.50' LT	1500'R PT
02	22+44.87	7.50' RT	1500'R PT



THE RUDMAN PARTNERSHIP
VOLUME 3346, PAGE 764
D.R.C.C.T.

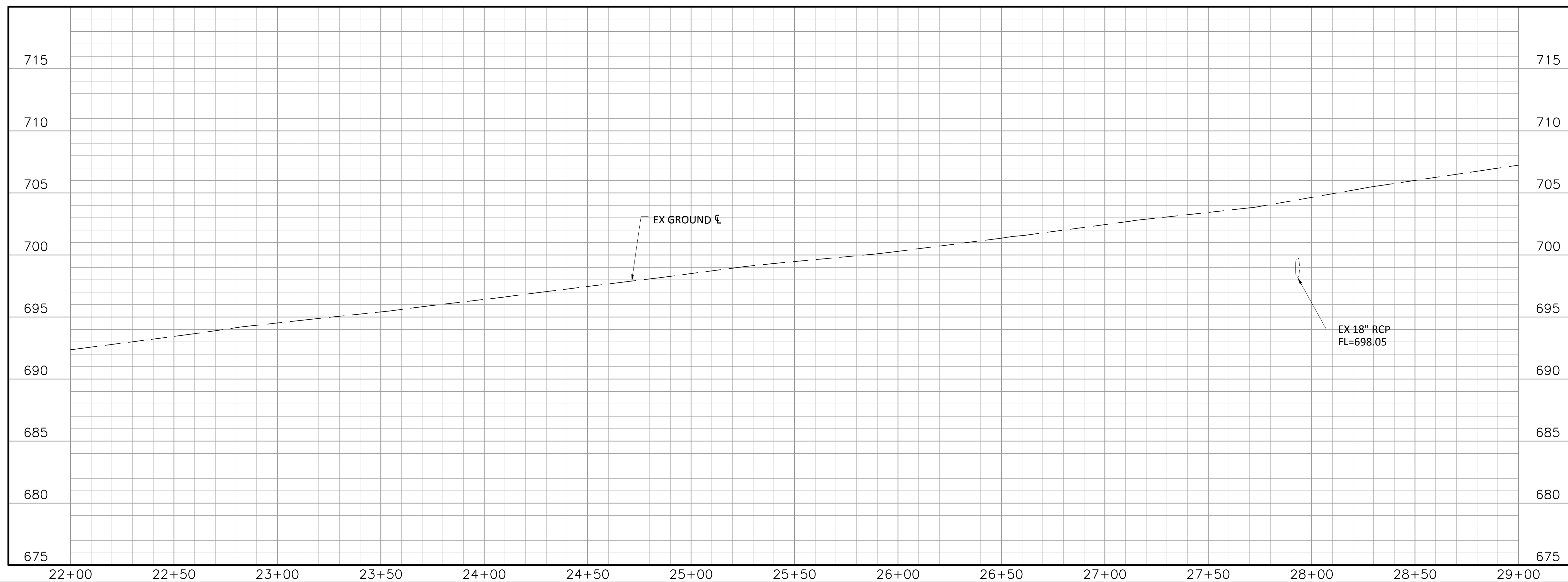
- NOTES:
- CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.
 - SEE LANDSCAPING SHEETS FOR TREE REMOVAL/RELOCATION DETAILS.
 - CONTRACTOR SHALL REPLACE EXISTING UNDERGROUND ELECTRICAL CONDUIT AND WIRE ASSOCIATED WITH THE STREET LIGHTS AS NECESSARY. THE REPLACEMENT CONDUIT AND WIRE SHALL MATCH EXISTING SIZE. IF EXISTING WIRE IS DAMAGED NEW WIRE SHALL BE RAN FROM STREET LIGHT TO STREET LIGHT WITH NO SPLICING ALLOWED. THIS SHALL BE CONSIDERED SUBSIDIARY TO THE FORCE MAIN.

LEGEND

- NEW PAVEMENT
- CONC PAVERS
- PROPOSED CONDUIT
- MATCH EXISTING CROSS SLOPE
- EXISTING ROW
- EXISTING GAS LINE
- EXISTING TELEPHONE DUCT
- EXISTING UNDERGROUND ELECTRIC LINE
- REMOVE EXISTING TREE

- NOTES BY SYMBOL "O"**
- THE CONTRACTOR SHALL REMOVE THE EXISTING LIGHT FIXTURES FROM THE POLE AND INSTALL TWO (2) LIGHT FIXTURES PROVIDED BY THE CITY OF FRISCO.
- (1) EXISTING LIGHT POLE TO REMAIN.
 - (2) EXISTING LIGHT POLE TO BE RELOCATED.

ADDITIONAL PULL BOXES, CONDUIT, AND CONDUCTORS NEEDED TO RESTORE FULL OPERATION OF THE LIGHTING SYSTEM, MEETING ALL REQUIREMENTS OF THE NATIONAL ELECTRIC CODE SHALL BE INCLUDED IN THE COST OF POLE RELOCATION.



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05-01-2017

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CITY OF FRISCO, TEXAS

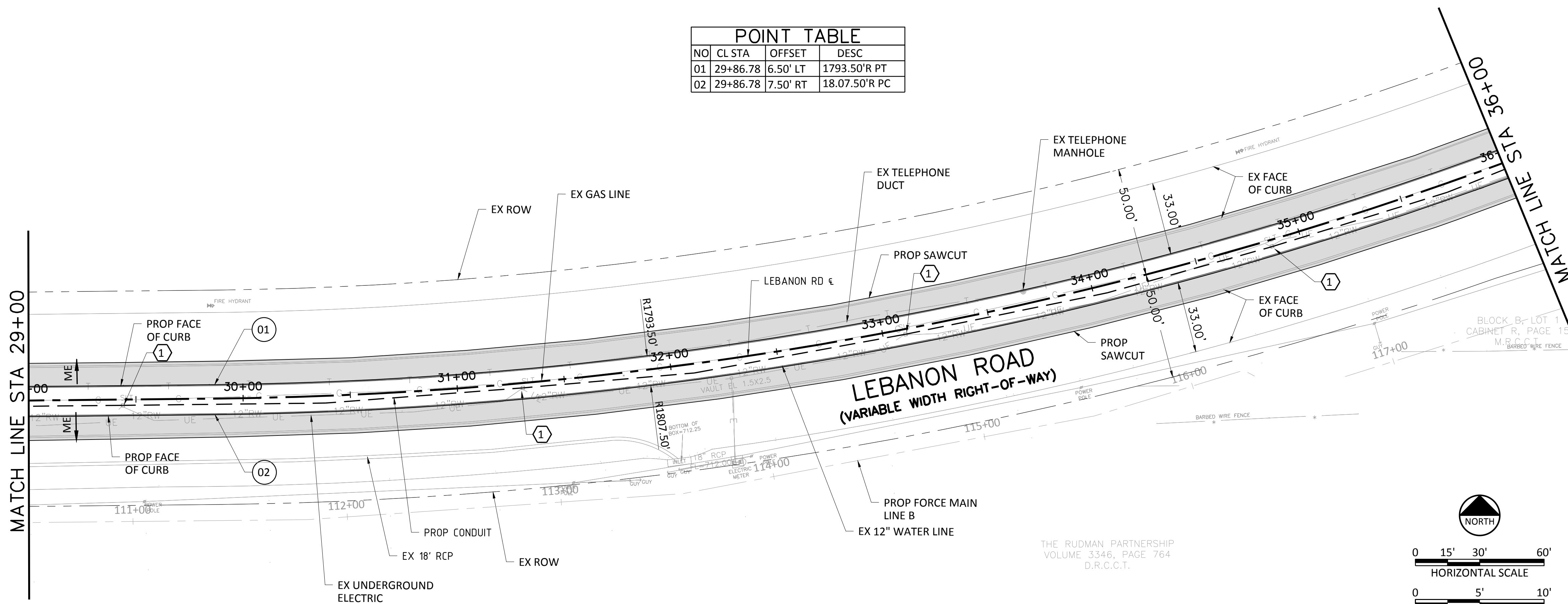
LEBANON ROAD IMPROVEMENTS AND FORCE MAIN

CIVIL

LEBANON ROAD
STA 22+00 TO STA 29+00

NO.	ISSUE	DATE	BY	FR&N JOB NO.	FRCL15624
				DATE	4/2017
				DESIGNED	AU
				DRAWN	SI
				REVISED	
				CHECKED	
				FILE NAME	cv-rrt-pp-rd09
VERIFY SCALE: 1" = 100' Bar: is one inch on original drawing. If not one inch on this sheet, adjust scale.					
SHEET RD-09					
SEQ. 60					

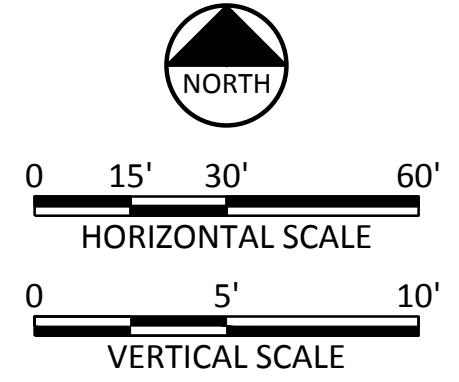
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NO	CL STA	OFFSET	DESC
01	29+86.78	6.50' LT	1793.50'R PT
02	29+86.78	7.50' RT	18.07.50'R PC



- NOTES:
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LEGEND

- NEW PAVEMENT
- CONC PAVERS
- PROPOSED CONDUIT
- MATCH EXISTING CROSS SLOPE
- EXISTING ROW
- EXISTING GAS LINE
- EXISTING TELEPHONE DUCT
- EXISTING UNDERGROUND ELECTRIC LINE
- REMOVE EXISTING TREE



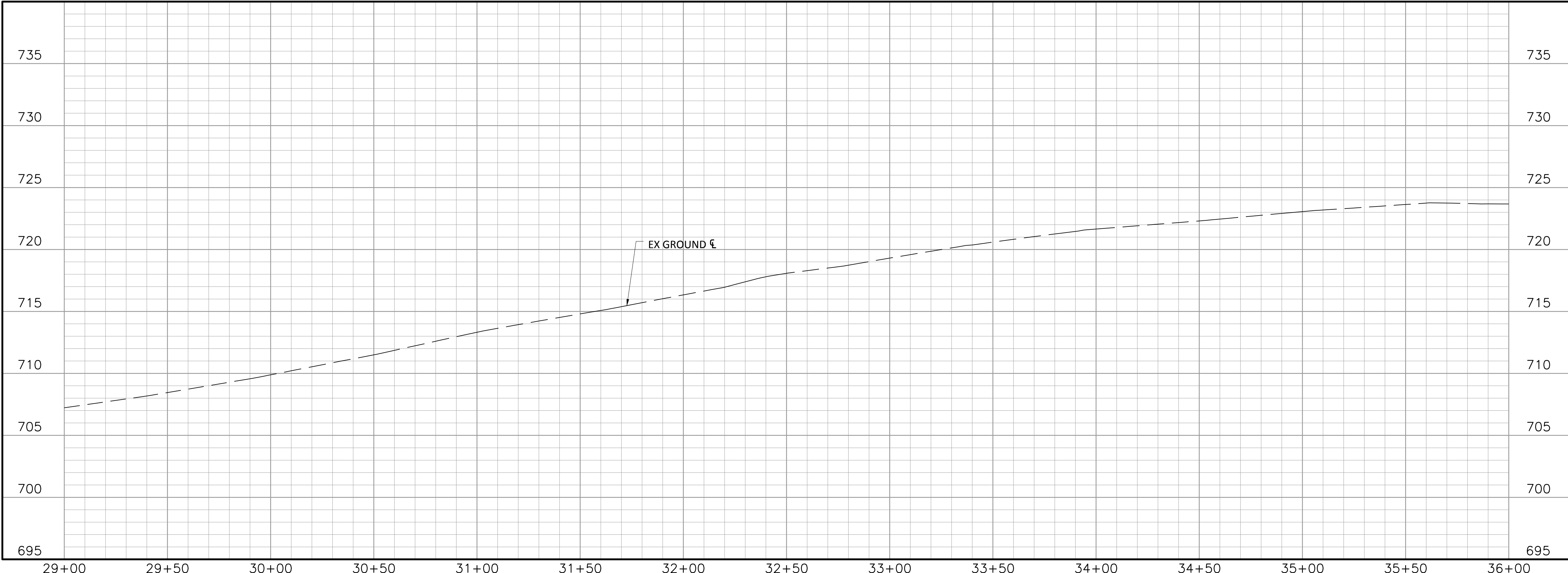
THE RUDMAN PARTNERSHIP
VOLUME 3346, PAGE 764
D.R.C.C.T.

Freese and Nichols, Inc.
Texas Registered Engineering Firm F-2144

05-01-2017

FREES & NICHOLS
6136 Frisco Square Blvd, Suite 200
Frisco, Texas 75034
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Web - www.freese.com

CITY OF FRISCO, TEXAS
LEBANON ROAD IMPROVEMENTS AND FORCE MAIN
CIVIL
LEBANON ROAD
STA 29+00 TO STA 36+00



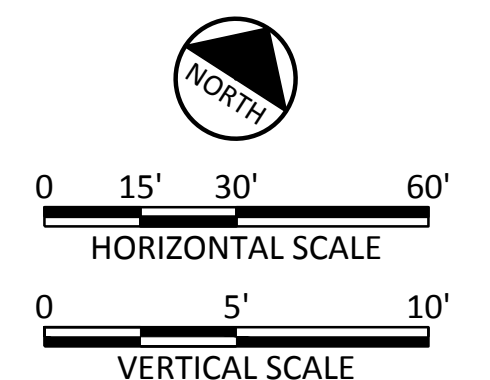
- NOTES BY SYMBOL "O"**
- THE CONTRACTOR SHALL REMOVE THE EXISTING LIGHT FIXTURES FROM THE POLE AND INSTALL TWO (2) LIGHT FIXTURES PROVIDED BY THE CITY OF FRISCO.
- ① EXISTING LIGHT POLE TO REMAIN.
 - ② EXISTING LIGHT POLE TO BE RELOCATED.
- ADDITIONAL PULL BOXES, CONDUIT, AND CONDUCTORS NEEDED TO RESTORE FULL OPERATION OF THE LIGHTING SYSTEM, MEETING ALL REQUIREMENTS OF THE NATIONAL ELECTRIC CODE SHALL BE INCLUDED IN THE COST OF POLE RELOCATION.

NO.	ISSUE	DATE	BY	FILE NAME
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1	Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.			

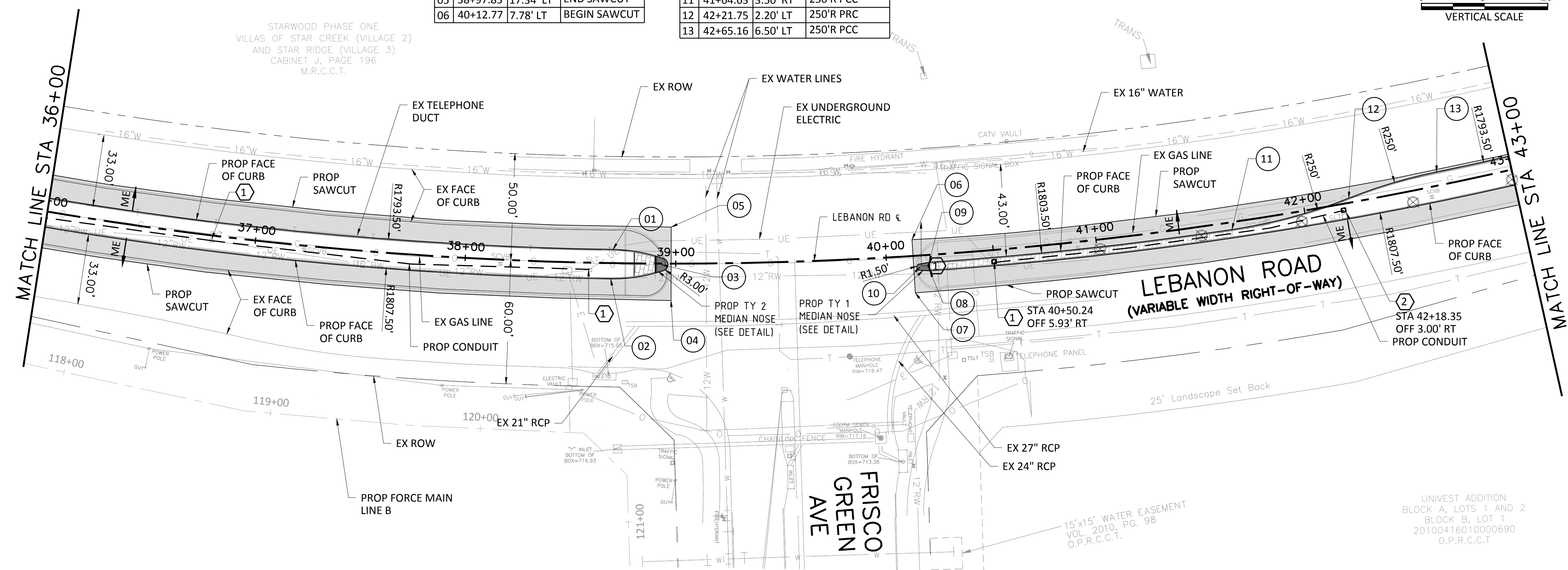
RD-10
SEQ. 61

NO	CL STA	OFFSET	DESC
01	38+70.09	6.50' LT	1793.50'R PRC
02	38+69.19	7.50' RT	18.07.50'R PRC
03	38+88.68	0.50' RT	3.00'R PT
04	38+97.79	17.52' RT	END SAWCUT
05	38+97.83	17.34' LT	END SAWCUT
06	40+12.77	7.78' LT	BEGIN SAWCUT

NO	CL STA	OFFSET	DESC
07	40+12.77	17.56' RT	BEGIN SAWCUT
08	40+20.24	7.50' RT	18.07.50'R PRC
09	40+20.24	3.50' RT	18.03.50'R PRC
10	40+15.76	5.50' RT	1.50'R PT
11	41+64.63	3.50' RT	250'R PCC
12	42+21.75	2.20' LT	250'R PCC
13	42+65.16	6.50' LT	250'R PCC



CAUTION!!!
EXISTING UNDERGROUND AND OVERHEAD UTILITIES IN THE AREA. 48 HOURS PRIOR TO CONSTRUCTION CONTACT 1-800-DIG-TESS



- NOTES:**
- CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.
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 - CONTRACTOR SHALL REPLACE EXISTING UNDERGROUND ELECTRICAL CONDUIT AND WIRE ASSOCIATED WITH THE STREET LIGHTS AS NECESSARY. THE REPLACEMENT CONDUIT AND WIRE SHALL MATCH EXISTING SIZE. IF EXISTING WIRE IS DAMAGED NEW WIRE SHALL BE RAN FROM STREET LIGHT TO STREET LIGHT WITH NO SPLICING ALLOWED. THIS SHALL BE CONSIDERED SUBSIDIARY TO THE FORCE MAIN.

LEGEND

- NEW PAVEMENT
- CONC PAVERS
- PROPOSED CONDUIT
- MATCH EXISTING CROSS SLOPE
- EXISTING ROW
- EXISTING GAS LINE
- EXISTING TELEPHONE DUCT
- EXISTING UNDERGROUND ELECTRIC LINE
- REMOVE EXISTING TREE

NOTES BY SYMBOL "O"

ALL LIGHT POLES LOCATED WEST OF FRISCO GREEN AVE. EXISTING LUMINARIES SHALL REMAIN.

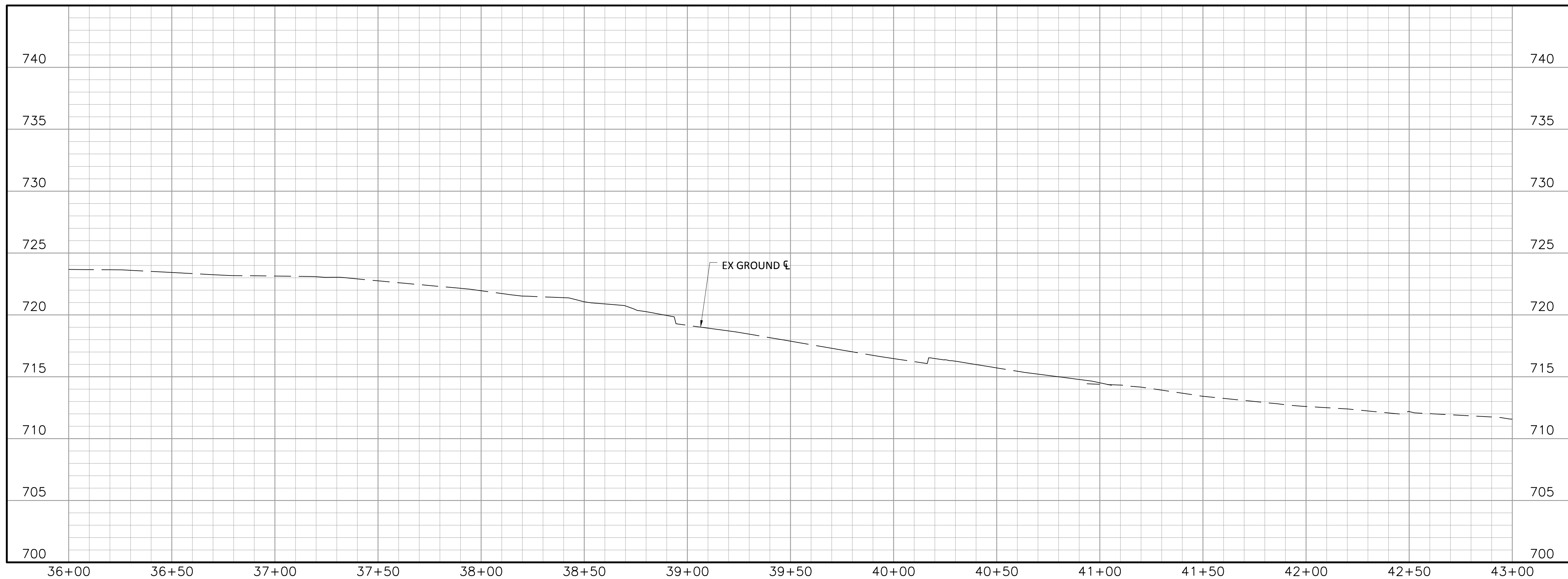
- EXISTING LIGHT POLE TO REMAIN.
- EXISTING LIGHT POLE TO BR RELOCATED.

NOTES BY SYMBOL "O"

THE CONTRACTOR SHALL REMOVE THE EXISTING LIGHT FIXTURES FROM THE POLE AND INSTALL TWO (2) LIGHT FIXTURES PROVIDED BY THE CITY OF FRISCO.

- EXISTING LIGHT POLE TO REMAIN.
- EXISTING LIGHT POLE TO BE RELOCATED.

ADDITIONAL PULL BOXES, CONDUIT, AND CONDUCTORS NEEDED TO RESTORE FULL OPERATION OF THE LIGHTING SYSTEM, MEETING ALL REQUIREMENTS OF THE NATIONAL ELECTRIC CODE SHALL BE INCLUDED IN THE COST OF POLE RELOCATION.



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CITY OF FRISCO, TEXAS
LEBANON ROAD IMPROVEMENTS AND FORCE MAIN
CIVIL
LEBANON ROAD
STA 36+00 TO STA 43+00

NO.	ISSUE	DATE	DESIGNED	DRAWN	REVISION	CHECKED	FILE NAME
0							cv-rtt-pp-rd11
1							

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

VERIFY SCALE 1

SHEET **RD-11**
SEQ. **62**

ACAD Ref: 20.06 (IMS Tech)
Filename: N:\Drawings\cv-rtt-pp-rd11.dwg
Last Saved: 1/30/2017 3:45 PM. Saved By: sli

STARWOOD PHASE ONE
VILLAS OF STAR CREEK (VILLAGE 2)
AND STAR RIDGE (VILLAGE 3)
CABINET J, PAGE 196
M.R.C.C.T.

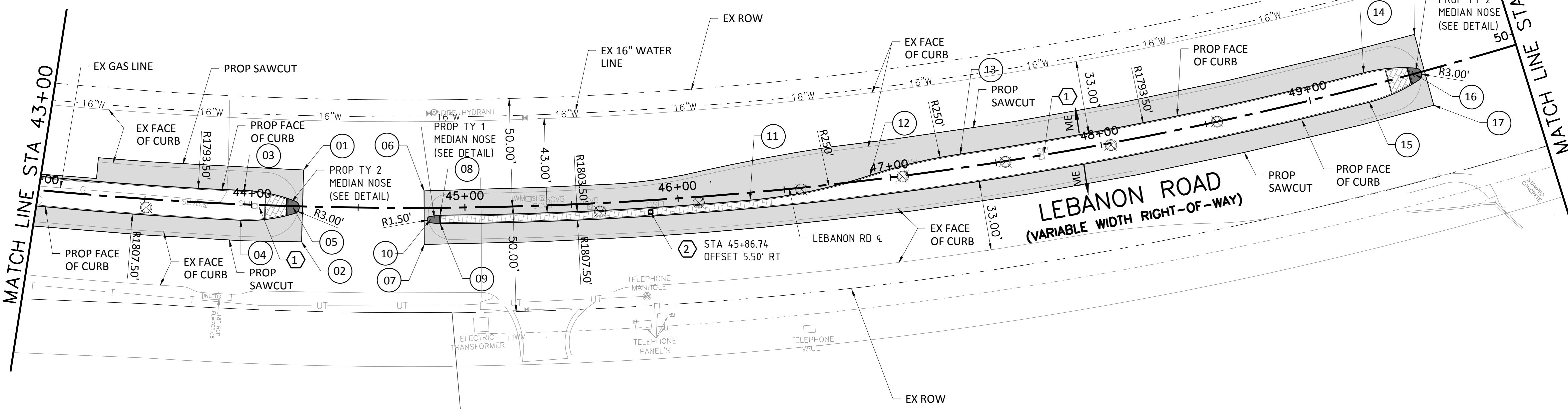
POINT TABLE			
NO	CL STA	OFFSET	DESC
01	44+23.94	17.10' LT	END SAWCUT
02	44+23.94	16.60' RT	END SAWCUT
03	43+96.22	6.50' LT	1793.50'R PRC
04	43+95.33	7.50' RT	18.07.50'R PRC
05	44+19.44	0.50' RT	3.00'R PT
06	44+80.90	7.95' LT	BEGIN SAWCUT

POINT TABLE			
NO	CL STA	OFFSET	DESC
07	44+80.90	17.17' RT	BEGIN SAWCUT
08	44+88.37	3.50' RT	18.03.50'R PRC
09	44+88.37	7.50' RT	18.07.50'R PRC
10	44+83.89	5.50' RT	1.50'R PT
11	46+33.52	3.50' RT	250'R PCC
12	46+90.64	2.20' LT	250'R PRC

POINT TABLE			
NO	CL STA	OFFSET	DESC
13	47+34.06	6.30' LT	250'R PCC
14	49+27.59	6.50' LT	1793.50'R PRC
15	49+26.70	7.50' RT	18.07.50'R PRC
16	49+50.82	0.50' RT	3.00'R PT
17	49+55.32	16.62' RT	END SAWCUT
18	49+55.32	17.77' LT	END SAWCUT



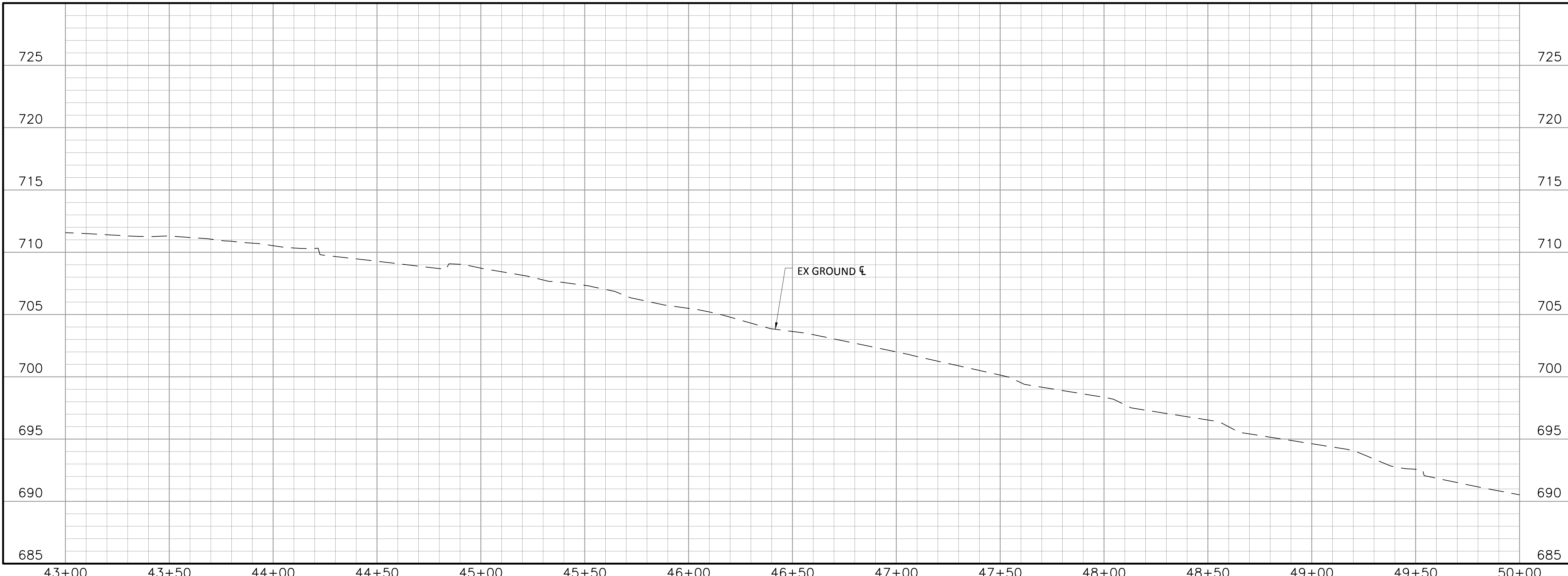
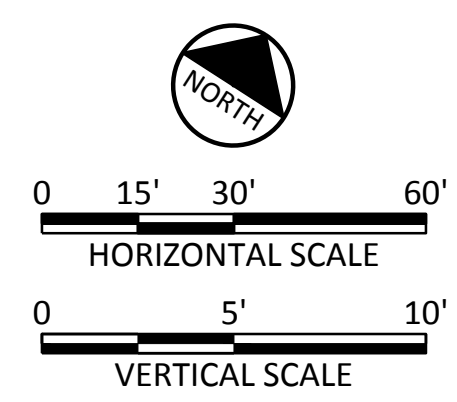
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LEGEND

- NEW PAVEMENT
- CONC PAVERS
- MATCH EXISTING CROSS SLOPE
- EXISTING ROW
- EXISTING GAS LINE
- EXISTING TELEPHONE DUCT
- EXISTING UNDERGROUND ELECTRIC LINE
- REMOVE EXISTING TREE

- NOTES BY SYMBOL "O"**
- THE CONTRACTOR SHALL REMOVE THE EXISTING LIGHT FIXTURES FROM THE POLE AND REINSTALL TWO (2) LIGHT FIXTURES PROVIDED BY THE CITY.
- EXISTING LED FIXTURES MOUNTED ON POLES LOCATED EAST OF FRISCO GREEN AVE SHALL REMAIN.
- EXISTING LIGHT POLE TO REMAIN.
 - EXISTING LIGHT POLE TO BE RELOCATED.
- ADDITIONAL PULL BOXES, CONDUIT, AND CONDUCTORS NEEDED TO RESTORE FULL OPERATION OF THE LIGHTING SYSTEM, MEETING ALL REQUIREMENTS OF THE NATIONAL ELECTRIC CODE SHALL BE INCLUDED IN THE COST OF POLE RELOCATION.



Freese and Nichols, Inc.
Texas Registered Engineering Firm F-2144

WAYNE P. HART
118231
CENSUS
PROFESSIONAL
06-01-2017

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6136 Frisco Square Blvd, Suite 200
Frisco, Texas 75034
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CITY OF FRISCO, TEXAS
LEBANON ROAD IMPROVEMENTS AND FORCE MAIN
CIVIL
LEBANON ROAD
STA 43+00 TO STA 50+00

NO.	ISSUE	DATE	BY	FILE NAME
0	VERIFY SCALE			cv-trt-pp-rd12
1				

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

SHEET **RD-12**
SEQ. **63**

ACAD Ref: 2017 (LMS Tech)
Filename: N:\Drawings\cv-trt-pp-rd12.dwg
Last Saved: 1/30/2017 3:43 PM. Saved By: sli

STARWOOD PHASE ONE
VILLAS OF STAR CREEK (VILLAGE 2)
AND STAR RIDGE (VILLAGE 3)
CABINET J, PAGE 196
M.R.C.C.T.

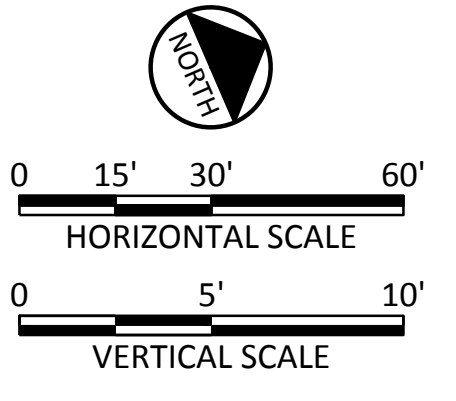
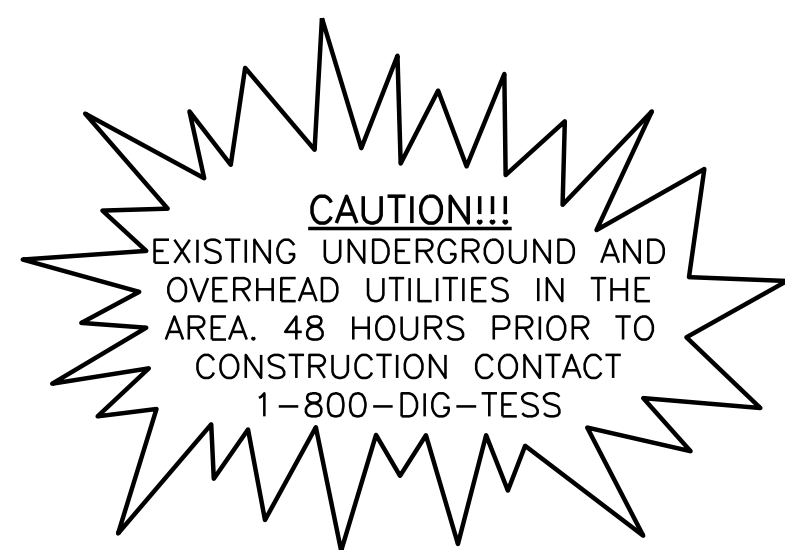
RD STA 52+93.30, 42.70'LT
REMOVE AND REPLACE
EX 8" RECESSED CURB INLET WITH
PROPOSED 15' RECESSED CURB INLET
PROP TOC = 685.72 (MATCH EX)
PROP FL = 681.72 (MATCH EX)

STARWOOD DR.

LEBANON ROAD
(VARIABLE WIDTH RIGHT-OF-WAY)

POINT TABLE			
NO	CL STA	OFFSET	DESC
01	50+11.96	8.65' LT	BEGIN SAWCUT
02	50+11.96	16.90' RT	BEGIN SAWCUT
03	50+14.60	5.50' RT	1.50'R PT
04	50+19.08	7.50' RT	18.07.50'R PC
05	50+19.08	3.50' RT	18.03.50'R PC
06	50+20.73	3.50' RT	250'R PRC
07	52+21.26	6.50' LT	250'R PT

POINT TABLE			
NO	CL STA	OFFSET	DESC
08	53+47.61	4.62' LT	1.50'R PT
09	51+20.73	7.50' RT	250'R PRC
10	51+78.63	1.75' RT	254'R PRC
11	52+21.26	2.50' RT	246'R PT
12	53+53.14	17.72' LT	END SAWCUT
13	53+53.14	8.68' RT	END SAWCUT



- NOTES:
- CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.
 - SEE LANDSCAPING SHEETS FOR TREE REMOVAL/RELOCATION DETAILS.
 - CONTRACTOR SHALL REPLACE EXISTING UNDERGROUND ELECTRICAL CONDUIT AND WIRE ASSOCIATED WITH THE STREET LIGHTS AS NECESSARY. THE REPLACEMENT CONDUIT AND WIRE SHALL MATCH EXISTING SIZE. IF EXISTING WIRE IS DAMAGED NEW WIRE SHALL BE RAN FROM STREET LIGHT TO STREET LIGHT WITH NO SPLICING ALLOWED. THIS SHALL BE CONSIDERED SUBSIDIARY TO THE FORCE MAIN.

LEGEND

- NEW PAVEMENT
- CONC PAVERS
- ME MATCH EXISTING CROSS SLOPE
- EXISTING ROW
- EXISTING GAS LINE
- EXISTING TELEPHONE DUCT
- EXISTING UNDERGROUND ELECTRIC LINE
- REMOVE EXISTING TREE

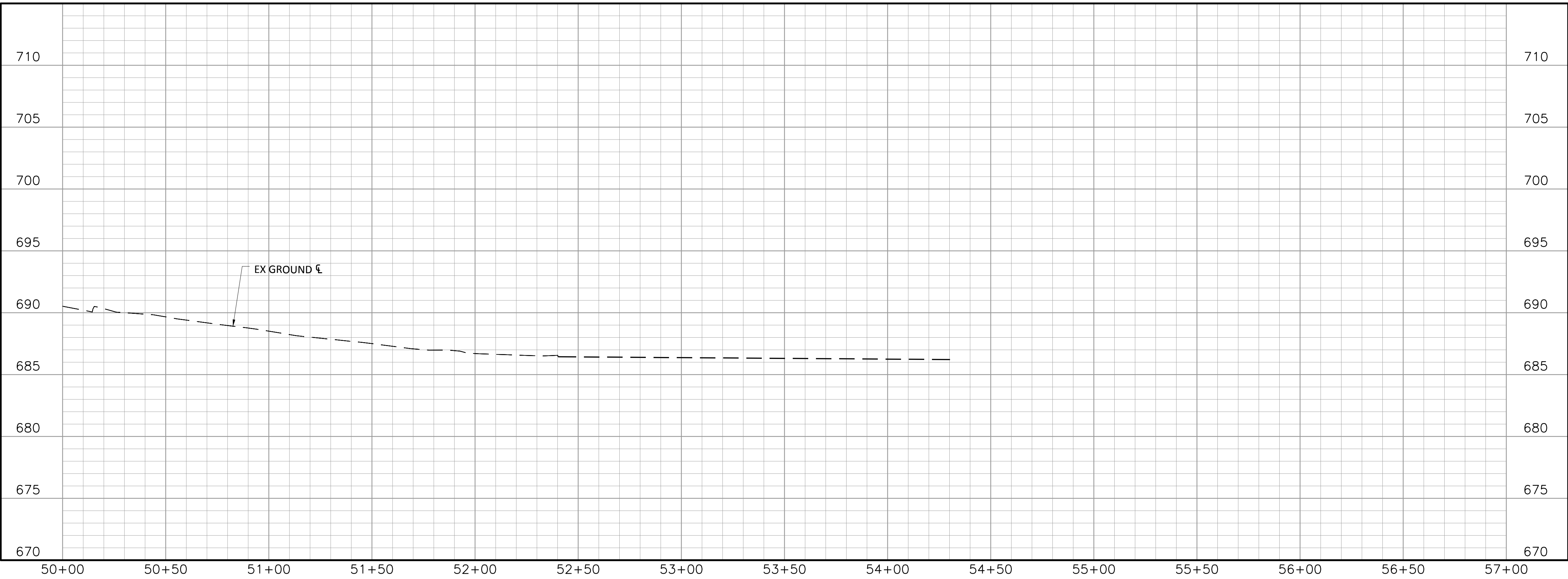
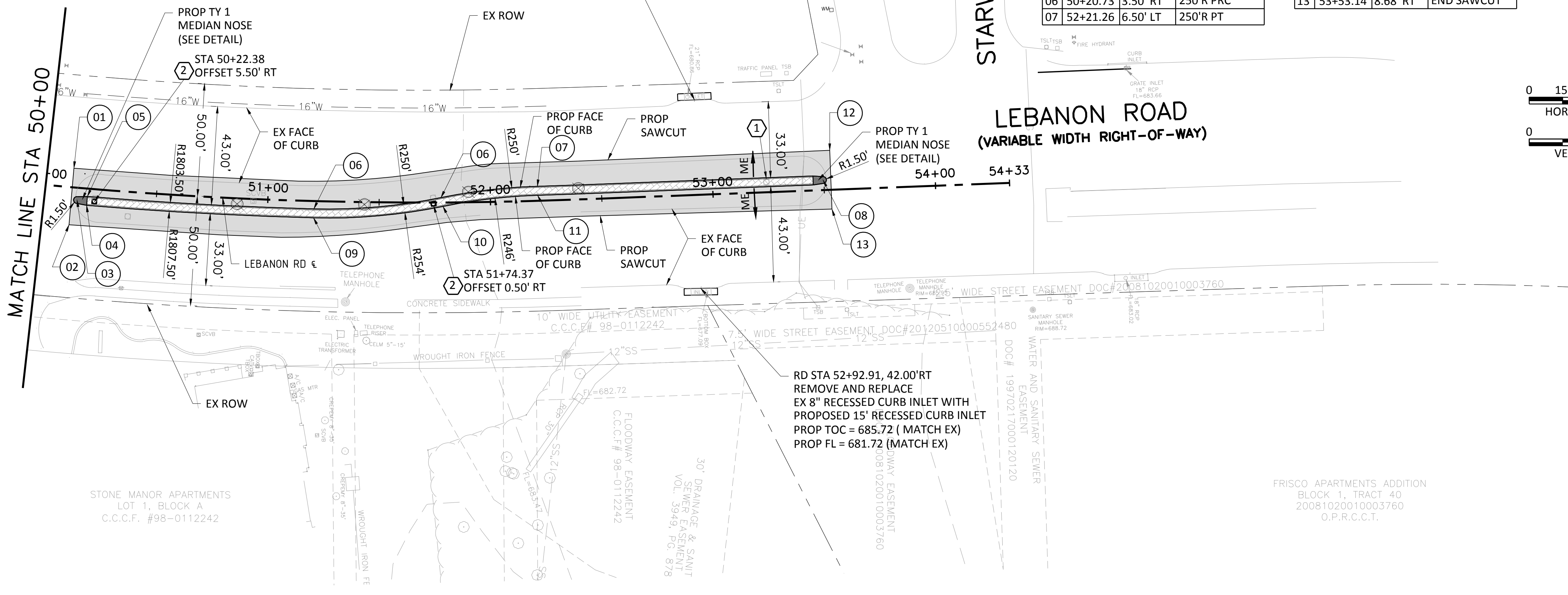
NOTES BY SYMBOL "O"

THE CONTRACTOR SHALL REMOVE THE EXISTING LIGHT FIXTURES FROM THE POLE AND REINSTALL TWO (2) LIGHT FIXTURES PROVIDED BY THE CITY.

EXISTING LED FIXTURES MOUNTED ON POLES LOCATED EAST OF FRISCO GREEN AVE SHALL REMAIN.

- ① EXISTING LIGHT POLE TO REMAIN.
- ② EXISTING LIGHT POLE TO BR RELOCATED.

ADDITIONAL PULL BOXES, CONDUIT, AND CONDUCTORS NEEDED TO RESTORE FULL OPERATION OF THE LIGHTING SYSTEM, MEETING ALL REQUIREMENTS OF THE NATIONAL ELECTRIC CODE SHALL BE INCLUDED IN THE COST OF POLE RELOCATION.

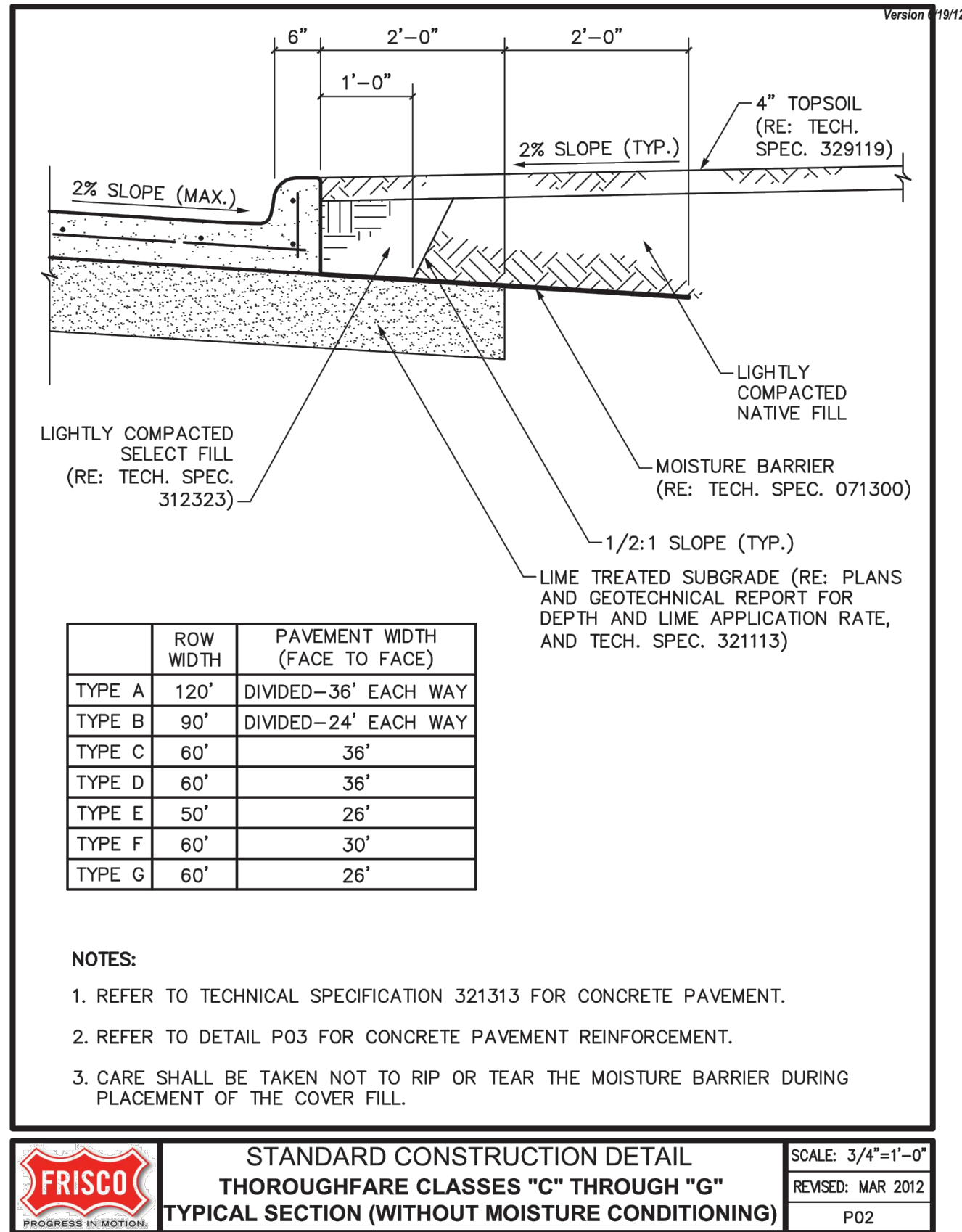


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LEBANON ROAD IMPROVEMENTS AND FORCE MAIN
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1	Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.			

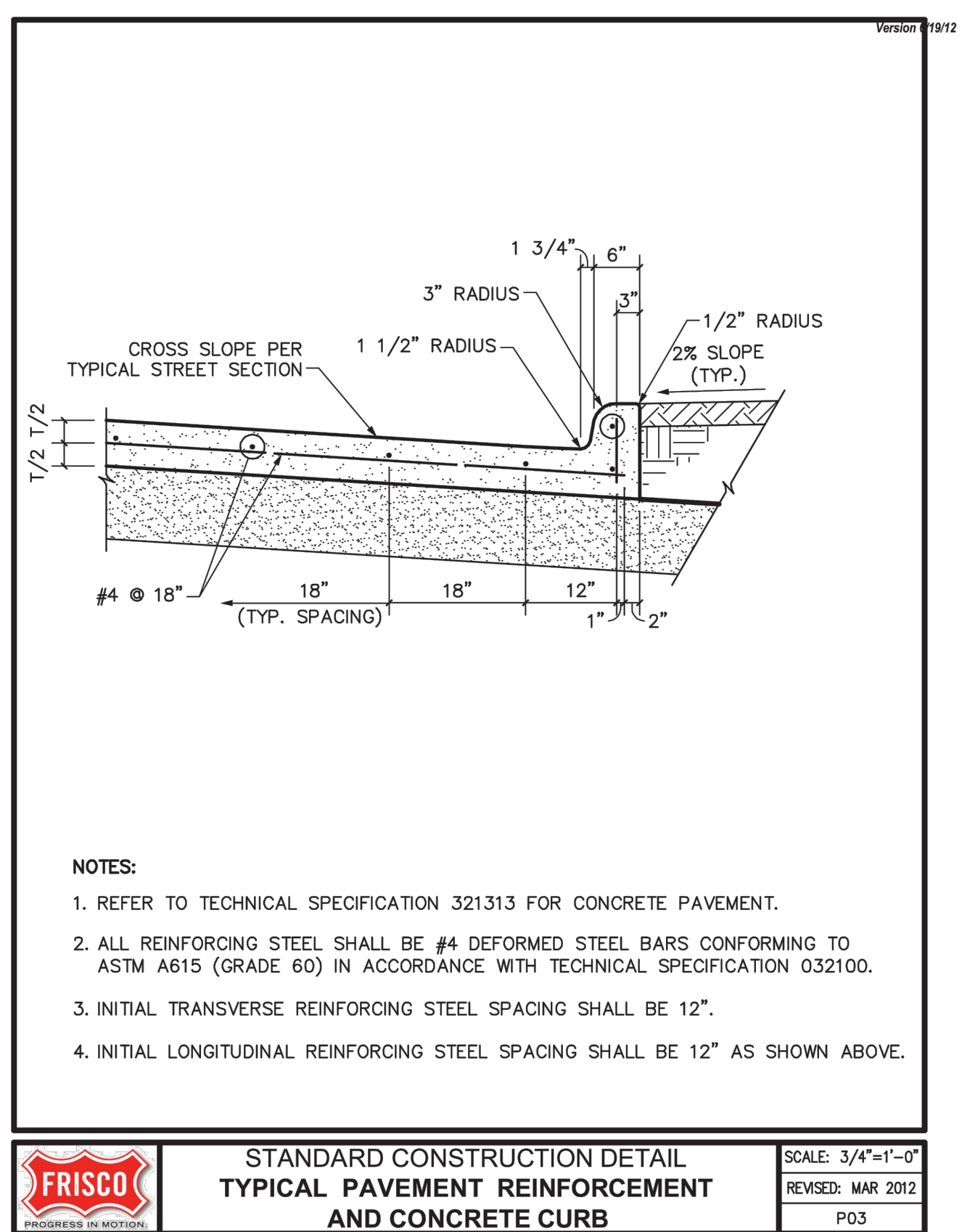
RD-13
SEQ. 64



	ROW WIDTH	PAVEMENT WIDTH (FACE TO FACE)
TYPE A	120'	DIVIDED-36' EACH WAY
TYPE B	90'	DIVIDED-24' EACH WAY
TYPE C	60'	36'
TYPE D	60'	36'
TYPE E	50'	26'
TYPE F	60'	30'
TYPE G	60'	26'

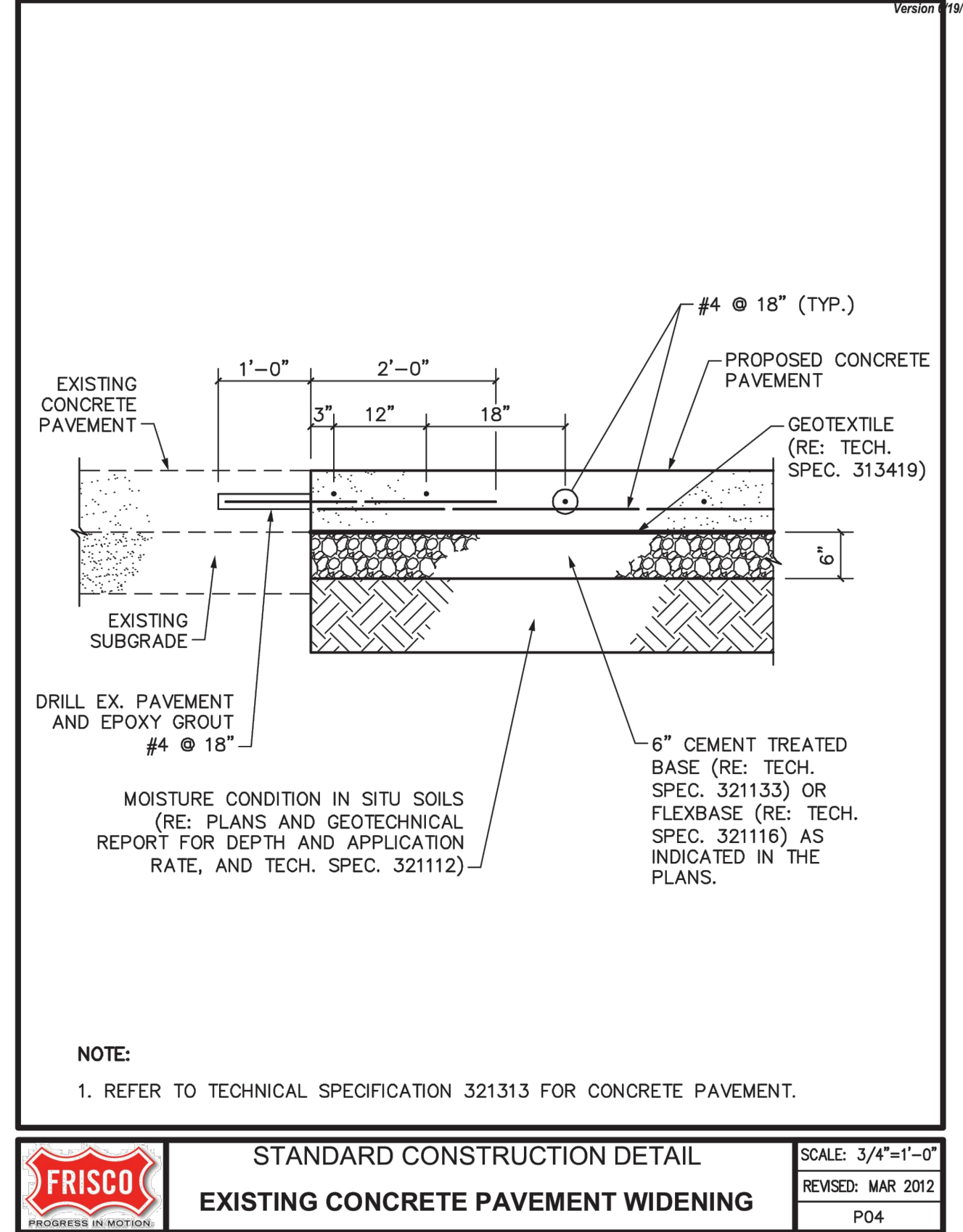
- NOTES:**
- REFER TO TECHNICAL SPECIFICATION 321313 FOR CONCRETE PAVEMENT.
 - REFER TO DETAIL P03 FOR CONCRETE PAVEMENT REINFORCEMENT.
 - CARE SHALL BE TAKEN NOT TO RIP OR TEAR THE MOISTURE BARRIER DURING PLACEMENT OF THE COVER FILL.

FRISCO STANDARD CONSTRUCTION DETAIL THOROUGHFARE CLASSES "C" THROUGH "G" TYPICAL SECTION (WITHOUT MOISTURE CONDITIONING) SCALE: 3/4"=1'-0" REVISED: MAR 2012 P02



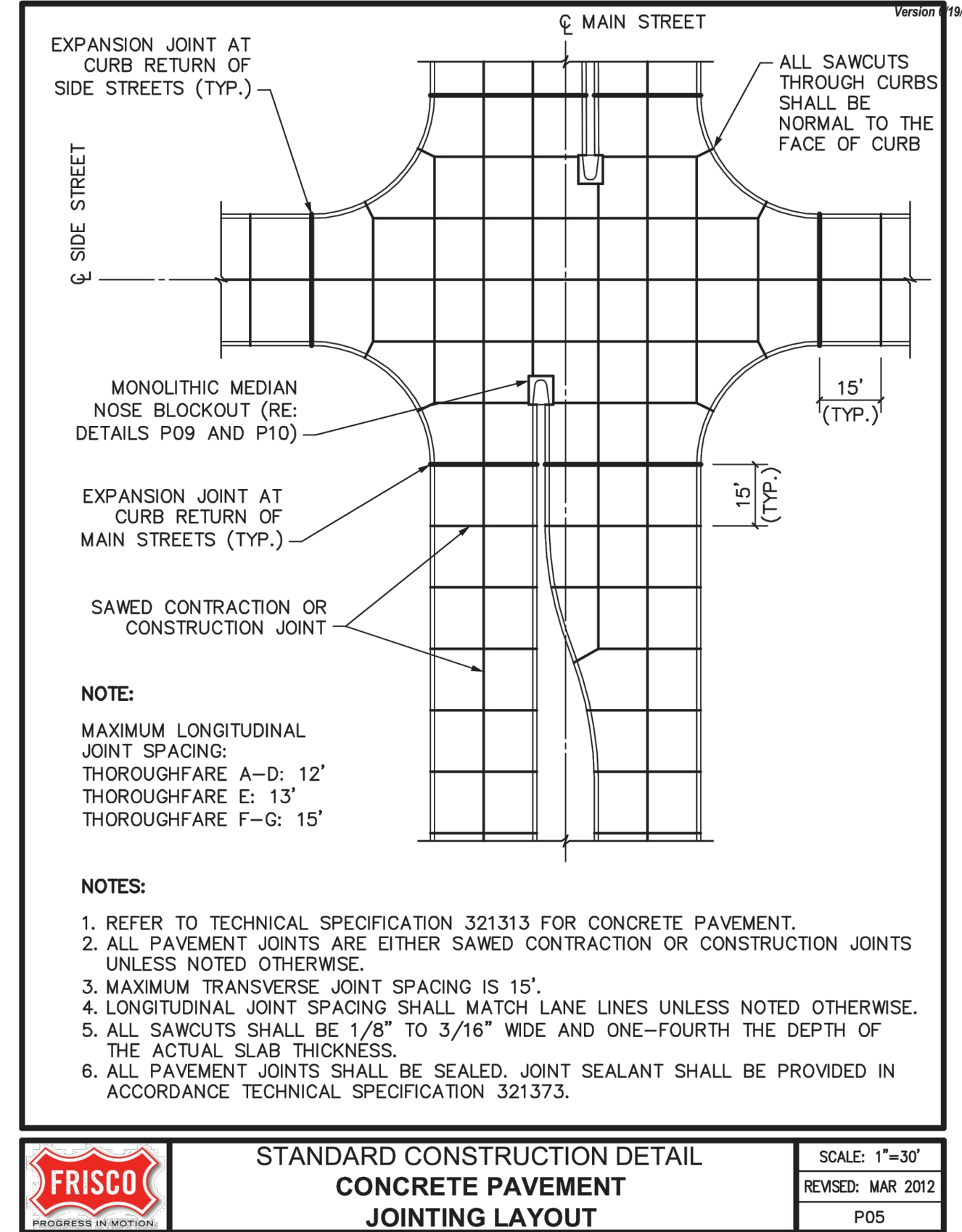
- NOTES:**
- REFER TO TECHNICAL SPECIFICATION 321313 FOR CONCRETE PAVEMENT.
 - ALL REINFORCING STEEL SHALL BE #4 DEFORMED STEEL BARS CONFORMING TO ASTM A615 (GRADE 60) IN ACCORDANCE WITH TECHNICAL SPECIFICATION 032100.
 - INITIAL TRANSVERSE REINFORCING STEEL SPACING SHALL BE 12\".
 - INITIAL LONGITUDINAL REINFORCING STEEL SPACING SHALL BE 12\" AS SHOWN ABOVE.

FRISCO STANDARD CONSTRUCTION DETAIL TYPICAL PAVEMENT REINFORCEMENT AND CONCRETE CURB SCALE: 3/4"=1'-0" REVISED: MAR 2012 P03



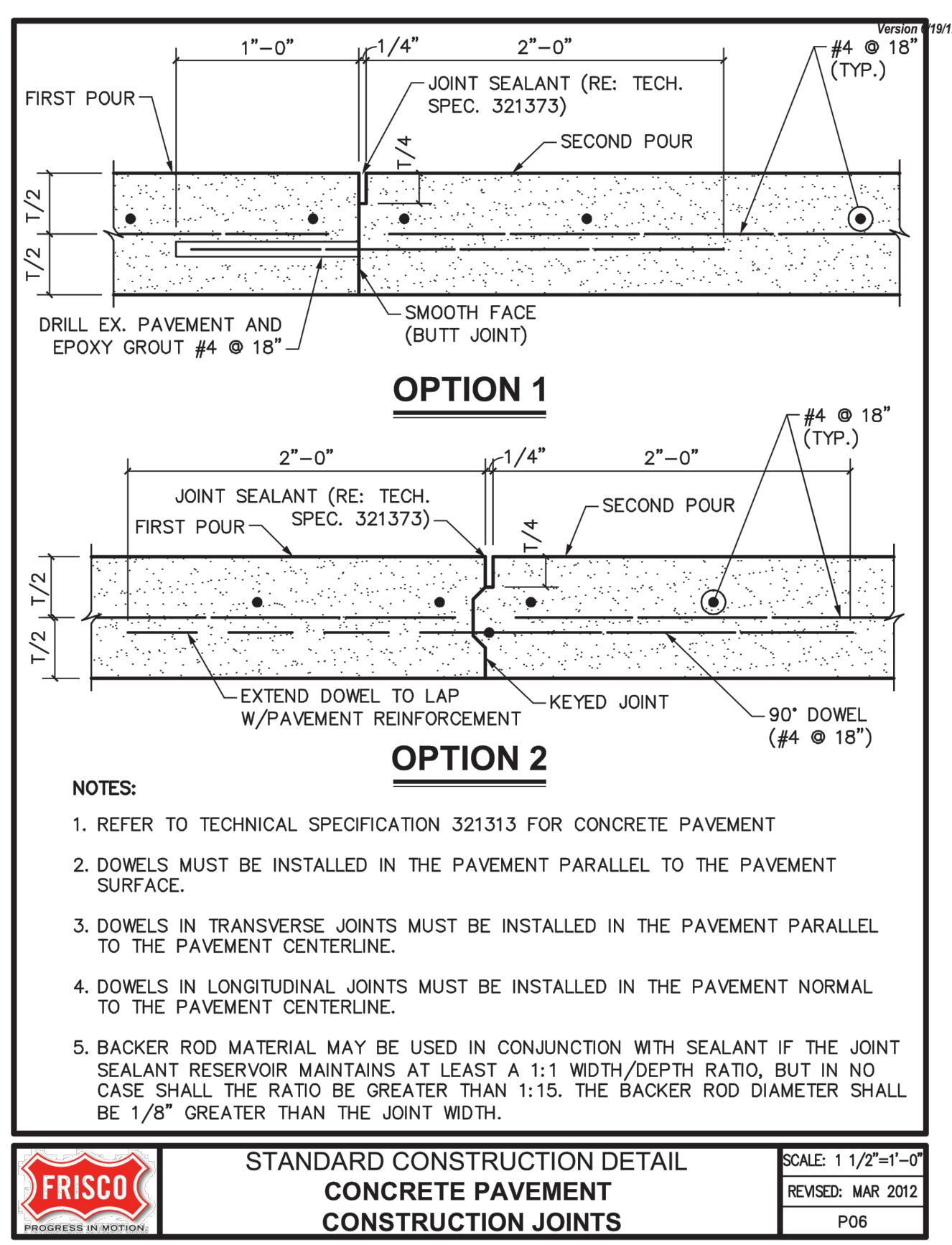
- NOTE:**
- REFER TO TECHNICAL SPECIFICATION 321313 FOR CONCRETE PAVEMENT.

FRISCO STANDARD CONSTRUCTION DETAIL EXISTING CONCRETE PAVEMENT WIDENING SCALE: 3/4"=1'-0" REVISED: MAR 2012 P04



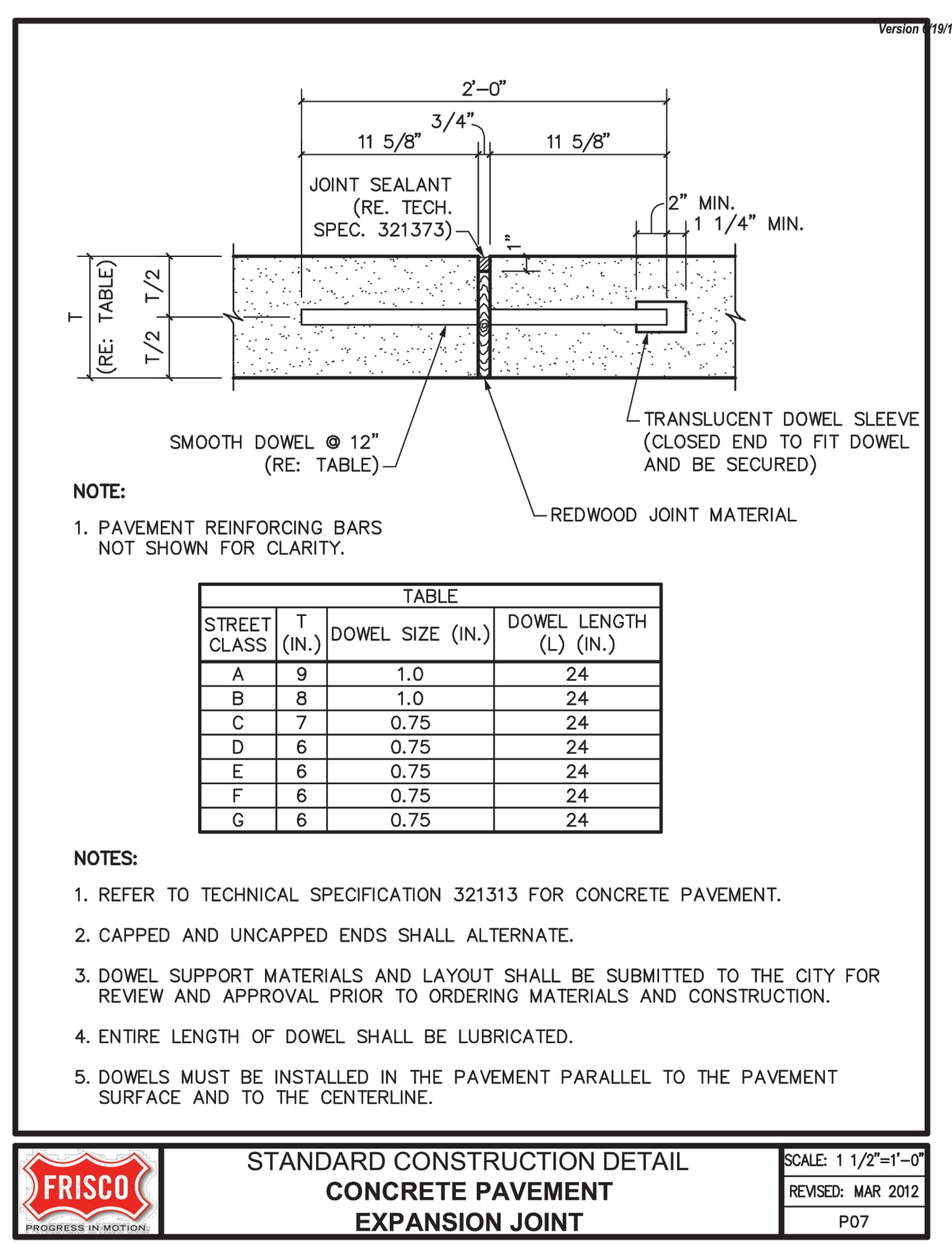
- NOTE:**
- REFER TO TECHNICAL SPECIFICATION 321313 FOR CONCRETE PAVEMENT.
 - ALL PAVEMENT JOINTS ARE EITHER SAWED CONTRACTION OR CONSTRUCTION JOINTS UNLESS NOTED OTHERWISE.
 - MAXIMUM TRANSVERSE JOINT SPACING IS 15'.
 - LONGITUDINAL JOINT SPACING SHALL MATCH LANE LINES UNLESS NOTED OTHERWISE.
 - ALL SAWCUTS SHALL BE 1/8" TO 3/16" WIDE AND ONE-FOURTH THE DEPTH OF THE ACTUAL SLAB THICKNESS.
 - ALL PAVEMENT JOINTS SHALL BE SEALED. JOINT SEALANT SHALL BE PROVIDED IN ACCORDANCE TECHNICAL SPECIFICATION 321373.

FRISCO STANDARD CONSTRUCTION DETAIL CONCRETE PAVEMENT JOINTING LAYOUT SCALE: 1"=30' REVISED: MAR 2012 P05



- NOTES:**
- REFER TO TECHNICAL SPECIFICATION 321313 FOR CONCRETE PAVEMENT
 - DOWELS MUST BE INSTALLED IN THE PAVEMENT PARALLEL TO THE PAVEMENT SURFACE.
 - DOWELS IN TRANSVERSE JOINTS MUST BE INSTALLED IN THE PAVEMENT PARALLEL TO THE PAVEMENT CENTERLINE.
 - DOWELS IN LONGITUDINAL JOINTS MUST BE INSTALLED IN THE PAVEMENT NORMAL TO THE PAVEMENT CENTERLINE.
 - BACKER ROD MATERIAL MAY BE USED IN CONJUNCTION WITH SEALANT IF THE JOINT SEALANT RESERVOIR MAINTAINS AT LEAST A 1:1 WIDTH/DEPTH RATIO, BUT IN NO CASE SHALL THE RATIO BE GREATER THAN 1:1.5. THE BACKER ROD DIAMETER SHALL BE 1/8" GREATER THAN THE JOINT WIDTH.

FRISCO STANDARD CONSTRUCTION DETAIL CONCRETE PAVEMENT CONSTRUCTION JOINTS SCALE: 1 1/2"=1'-0" REVISED: MAR 2012 P06



- NOTE:**
- PAVEMENT REINFORCING BARS NOT SHOWN FOR CLARITY.

TABLE			
STREET CLASS	T (IN.)	DOWEL SIZE (IN.)	DOWEL LENGTH (L) (IN.)
A	9	1.0	24
B	8	1.0	24
C	7	0.75	24
D	6	0.75	24
E	6	0.75	24
F	6	0.75	24
G	6	0.75	24

- NOTES:**
- REFER TO TECHNICAL SPECIFICATION 321313 FOR CONCRETE PAVEMENT.
 - CAPPED AND UNCAPPED ENDS SHALL ALTERNATE.
 - DOWEL SUPPORT MATERIALS AND LAYOUT SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO ORDERING MATERIALS AND CONSTRUCTION.
 - ENTIRE LENGTH OF DOWEL SHALL BE LUBRICATED.
 - DOWELS MUST BE INSTALLED IN THE PAVEMENT PARALLEL TO THE PAVEMENT SURFACE AND TO THE CENTERLINE.

FRISCO STANDARD CONSTRUCTION DETAIL CONCRETE PAVEMENT EXPANSION JOINT SCALE: 1 1/2"=1'-0" REVISED: MAR 2012 P07



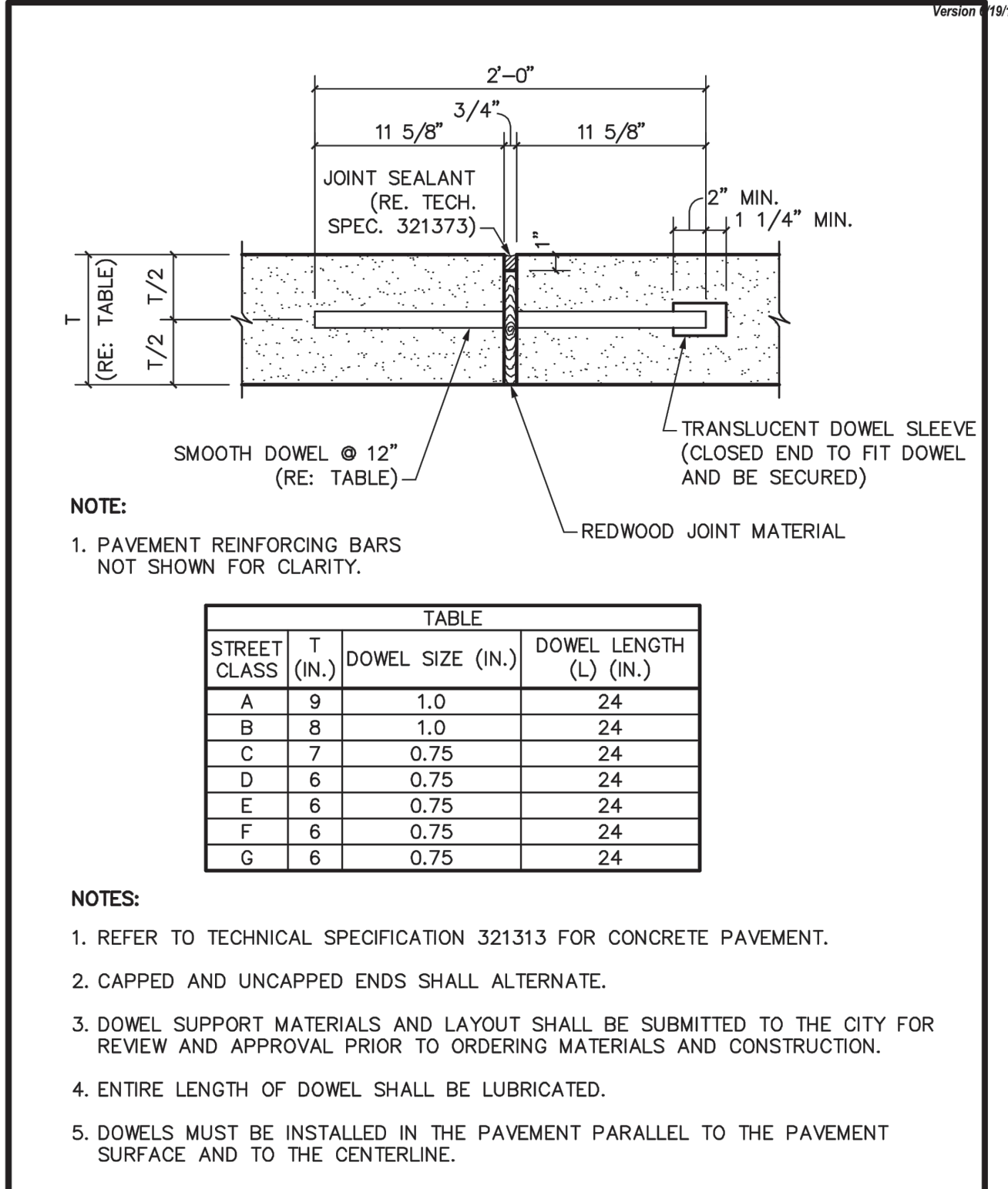
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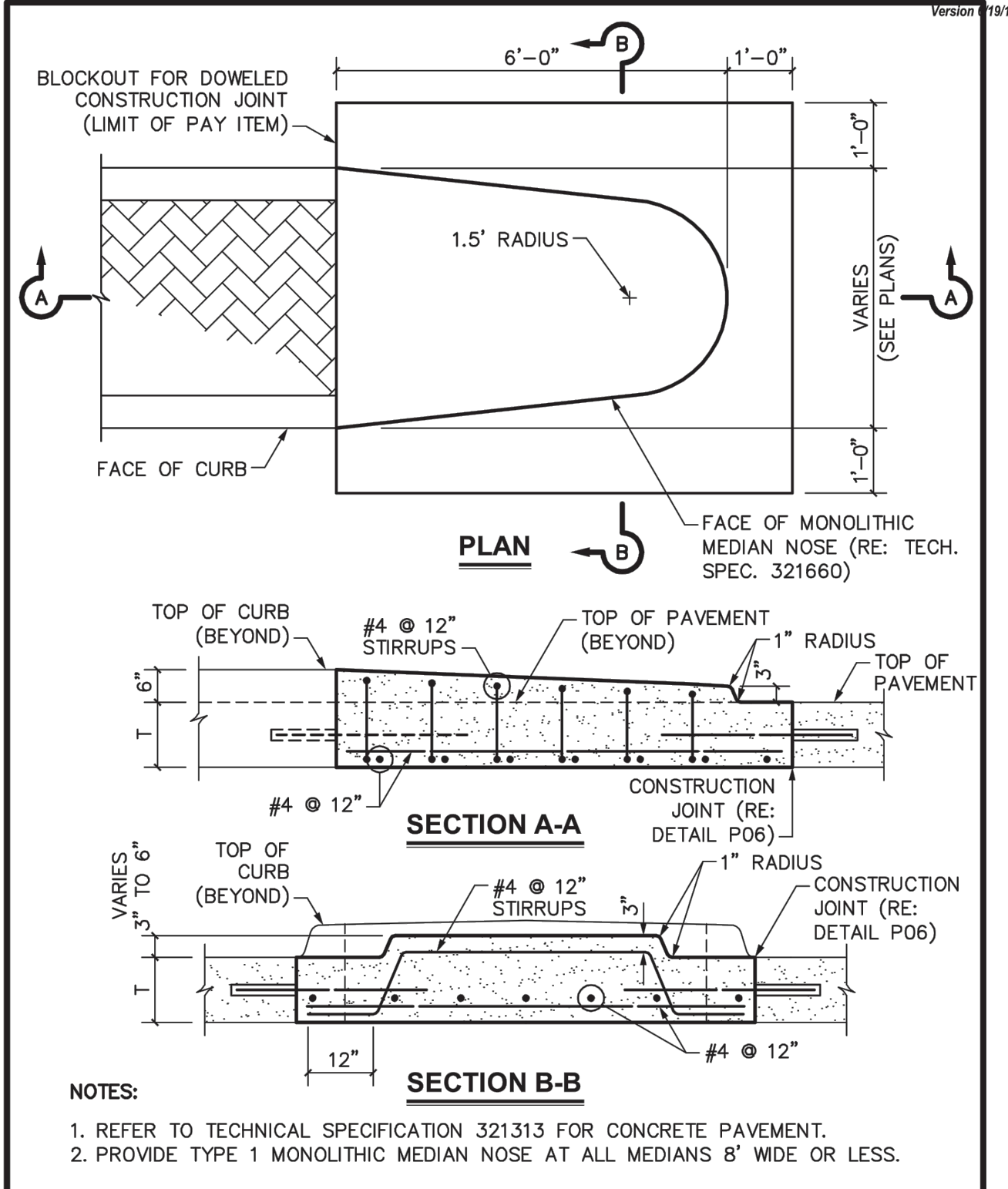
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1	Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.			

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 SEQ. **65**

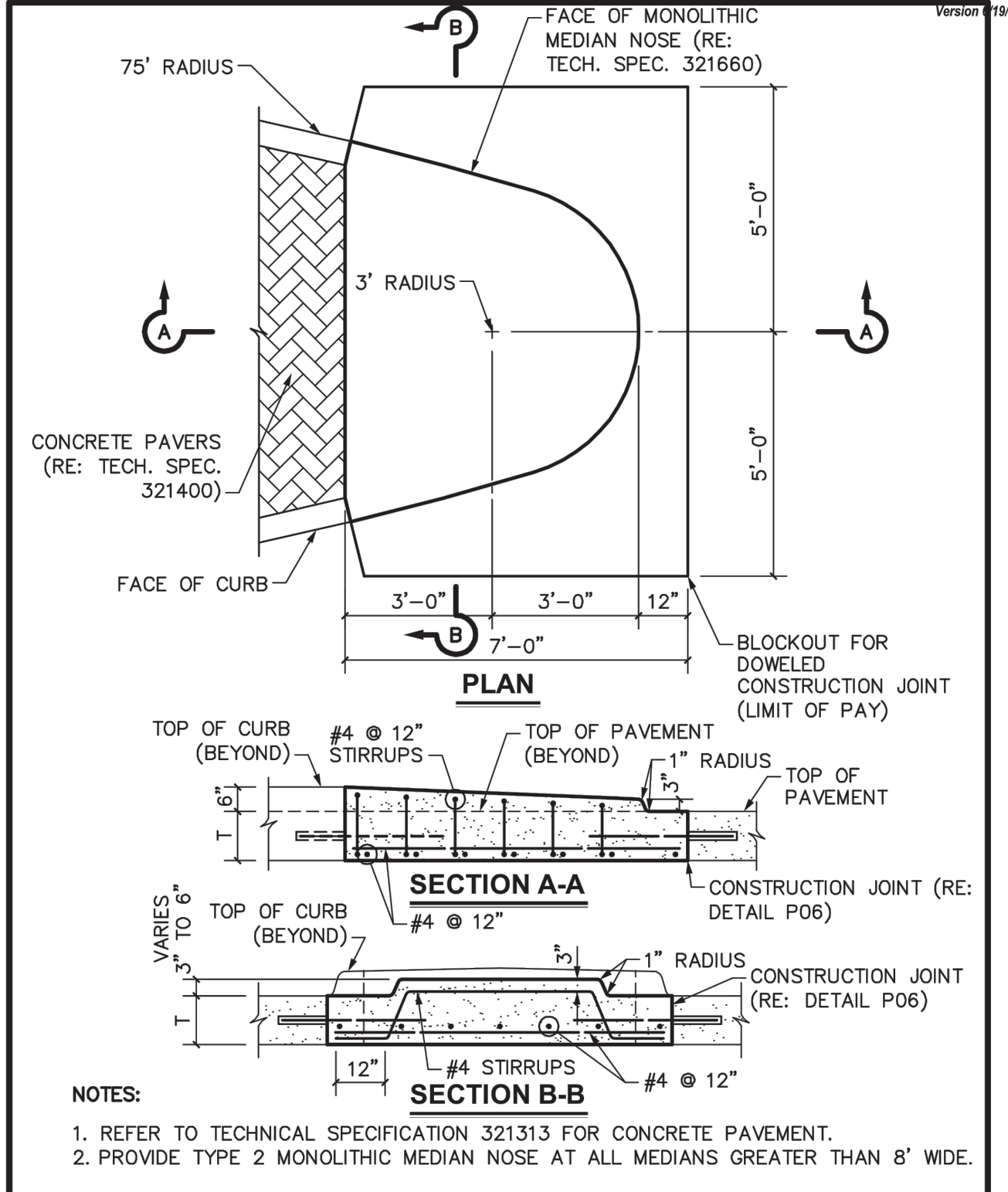
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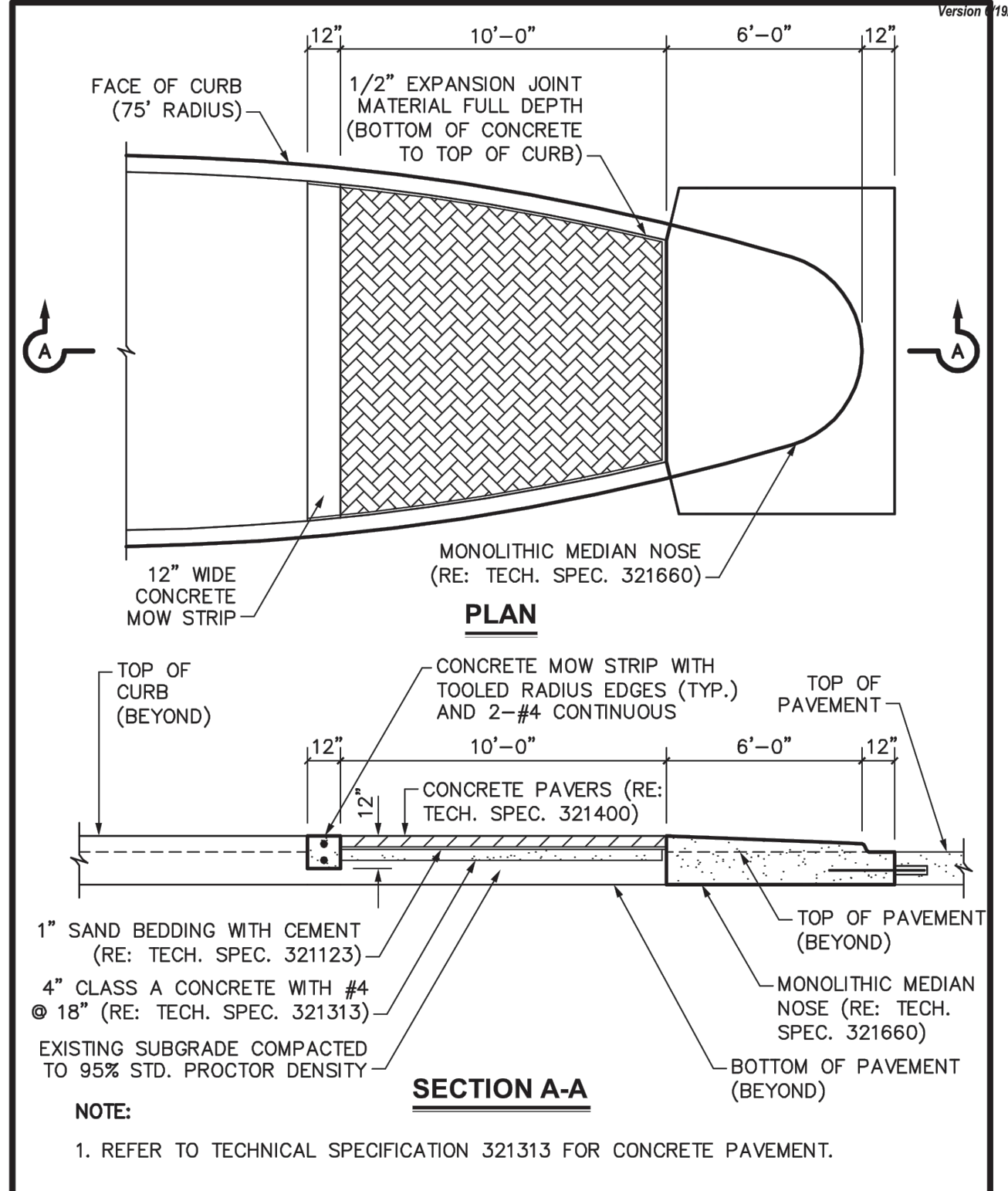
FRISCO STANDARD CONSTRUCTION DETAIL
CONCRETE PAVEMENT EXPANSION JOINT
 SCALE: 1/2"=1'-0"
 REVISED: MAR 2012
 P07



FRISCO STANDARD CONSTRUCTION DETAIL
MONOLITHIC MEDIAN NOSE TYPE 1
 SCALE: 1/2"=1'-0"
 REVISED: MAR 2012
 P09



FRISCO STANDARD CONSTRUCTION DETAIL
MONOLITHIC MEDIAN NOSE TYPE 2
 SCALE: 3/8"=1'-0"
 REVISED: MAR 2012
 P10



FRISCO STANDARD CONSTRUCTION DETAIL
MEDIAN NOSE WITH PAVERS
 SCALE: 1/4"=1'-0"
 REVISED: MAR 2012
 P11



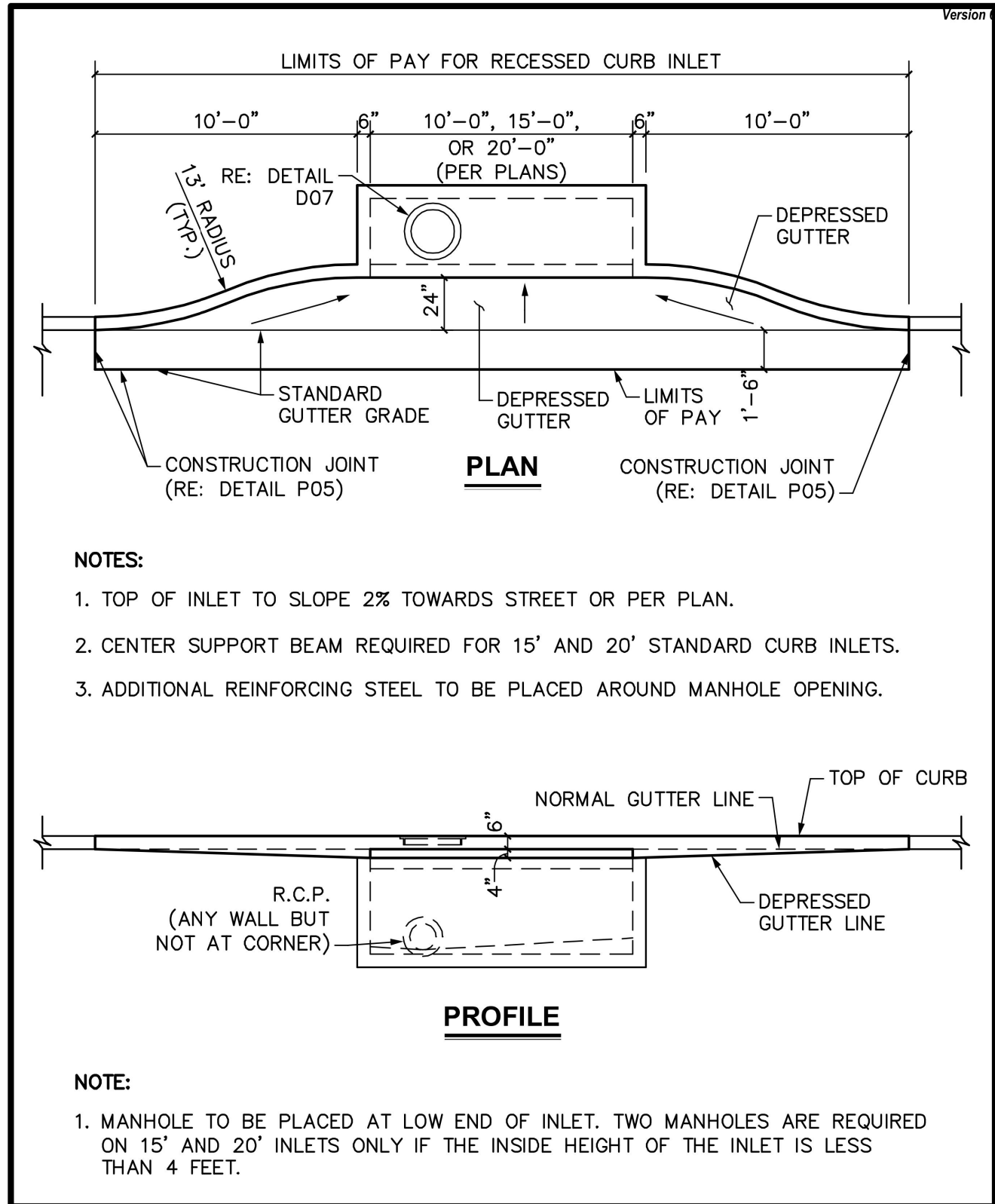
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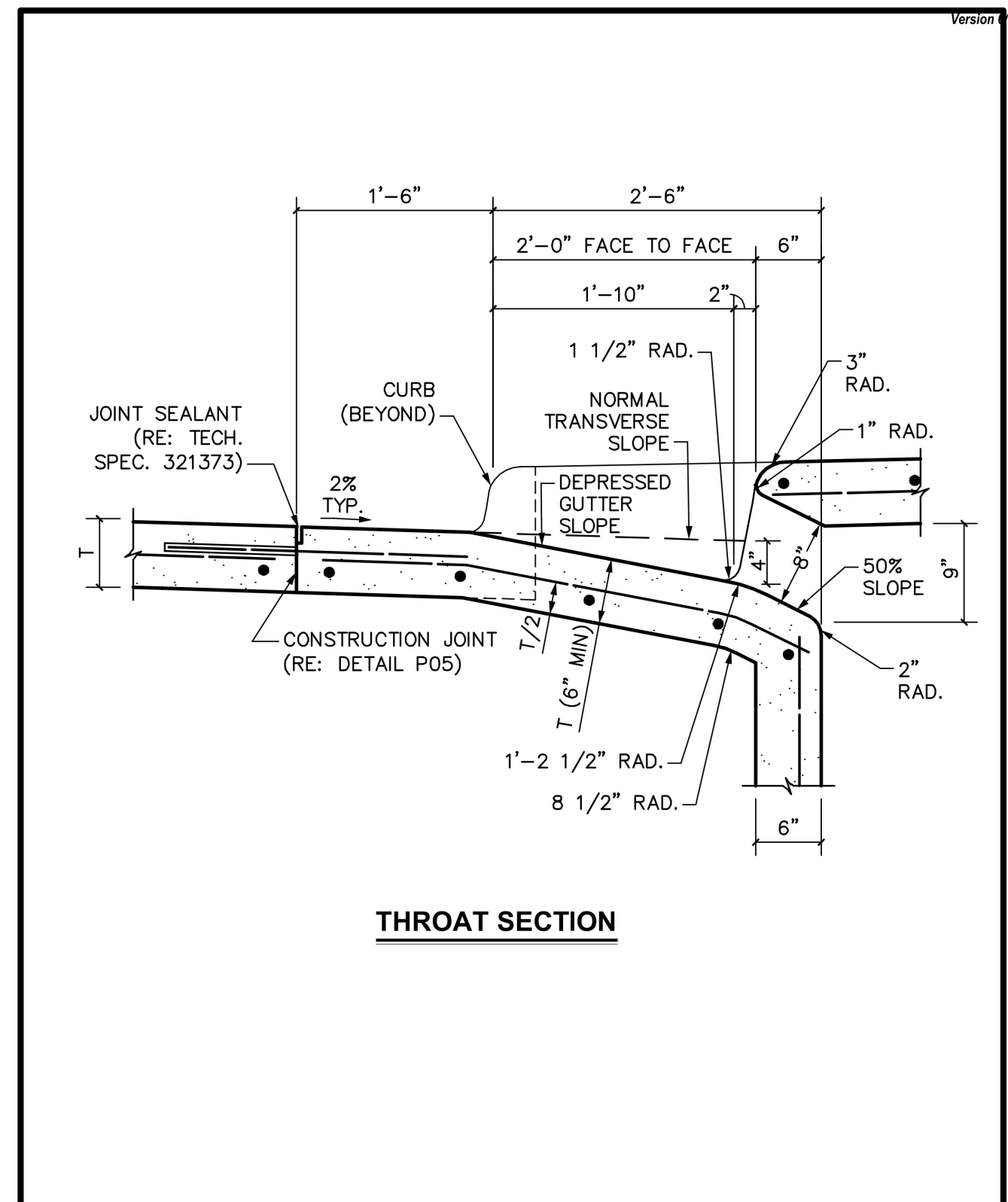
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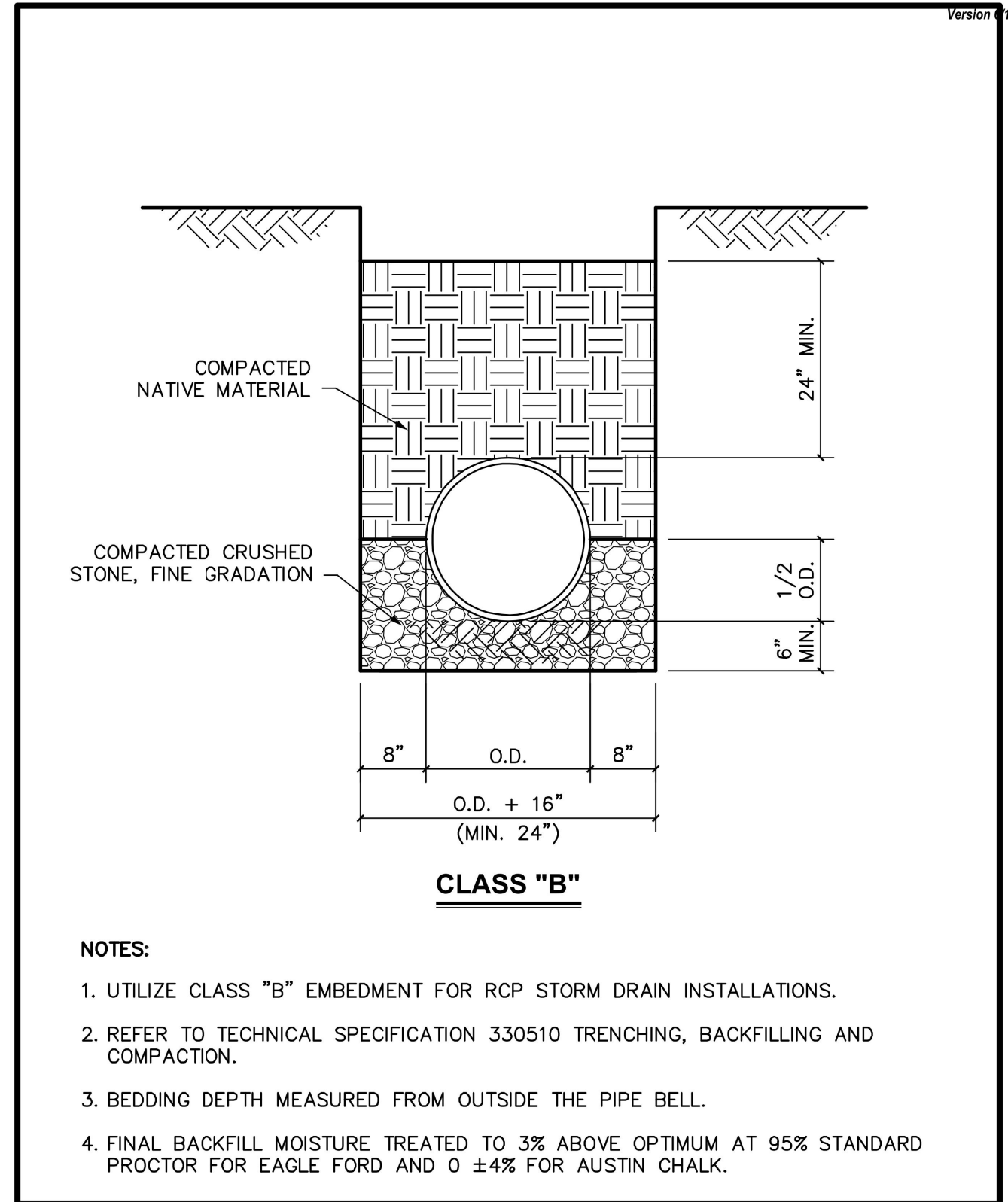
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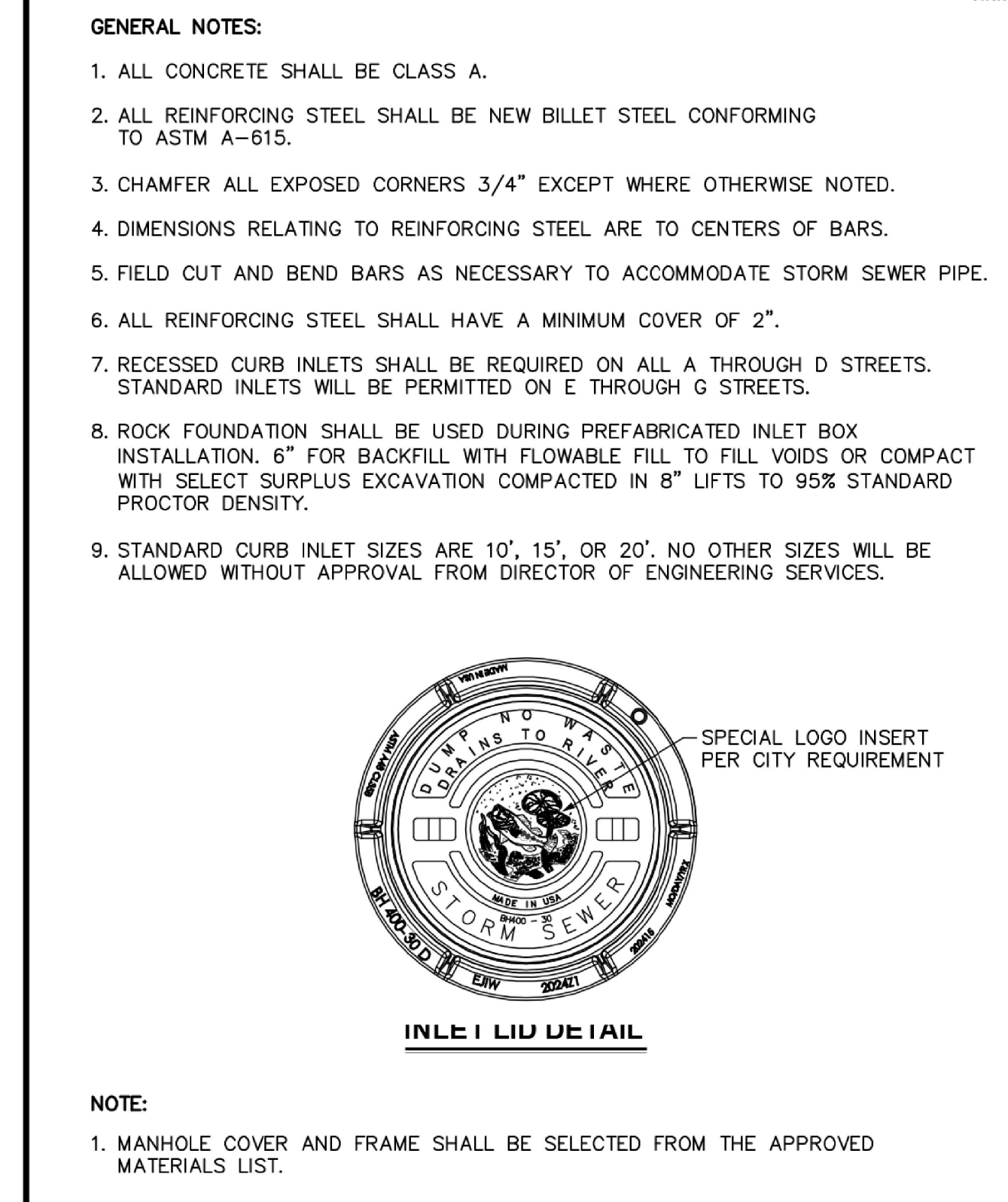
FRISCO STANDARD CONSTRUCTION DETAIL
RECESSED CURB INLET
SHEET 1 OF 2
SCALE: 1"=5'
REVISED: MAR 2012
D04



FRISCO STANDARD CONSTRUCTION DETAIL
RECESSED CURB INLET
SHEET 2 OF 2
SCALE: 1"=1'-0"
REVISED: MAR 2012
D05



FRISCO STANDARD CONSTRUCTION DETAIL
EMBEDMENT "B" (STORM)
SCALE: 3/4"=1'-0"
REVISED: MAR 2012
U02



FRISCO STANDARD CONSTRUCTION DETAIL
INLET LID DETAIL AND GENERAL NOTES
SCALE: 1"=1'-0"
REVISED: MAR 2012
D07

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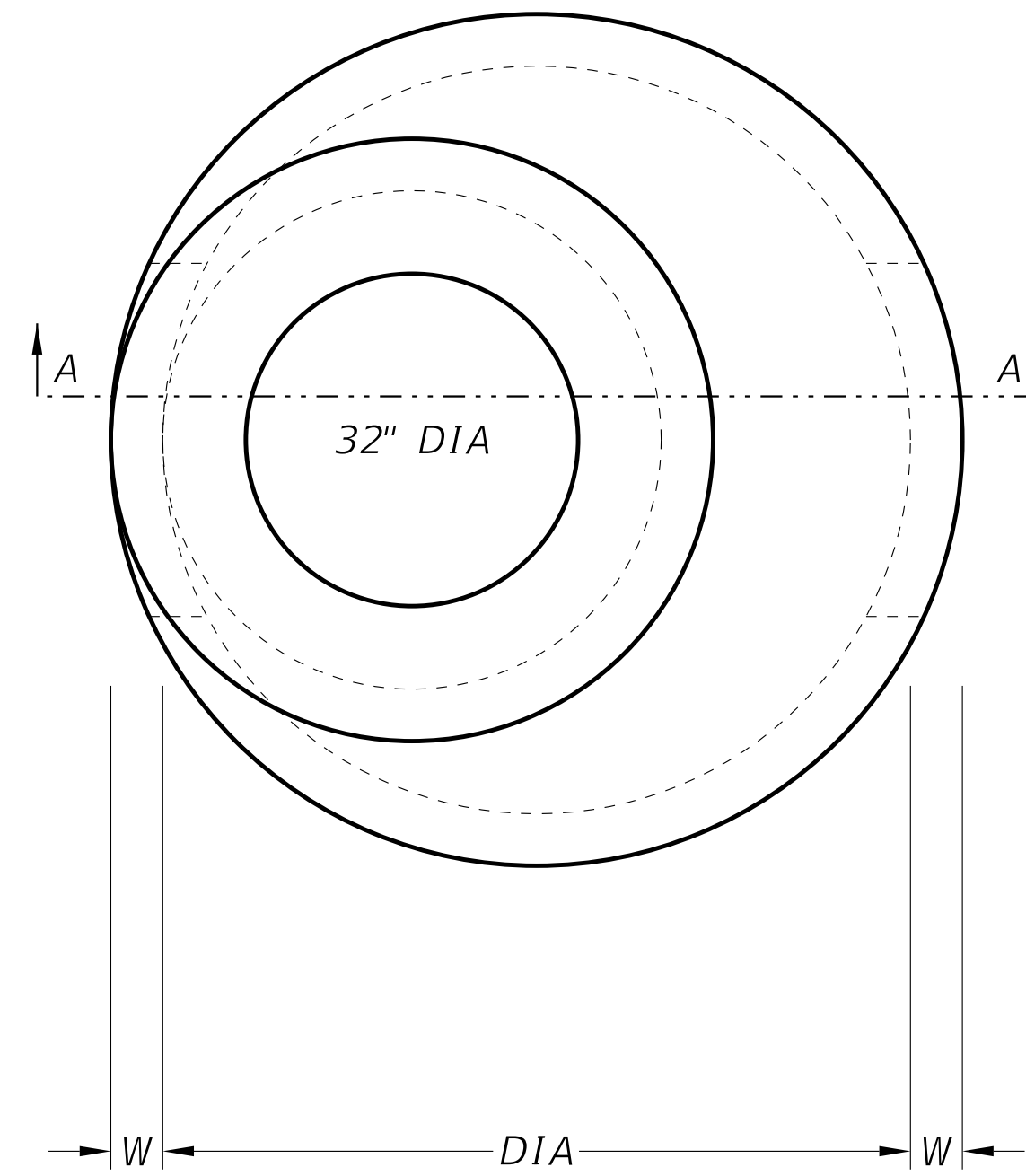
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SHEET **SDDT-01**

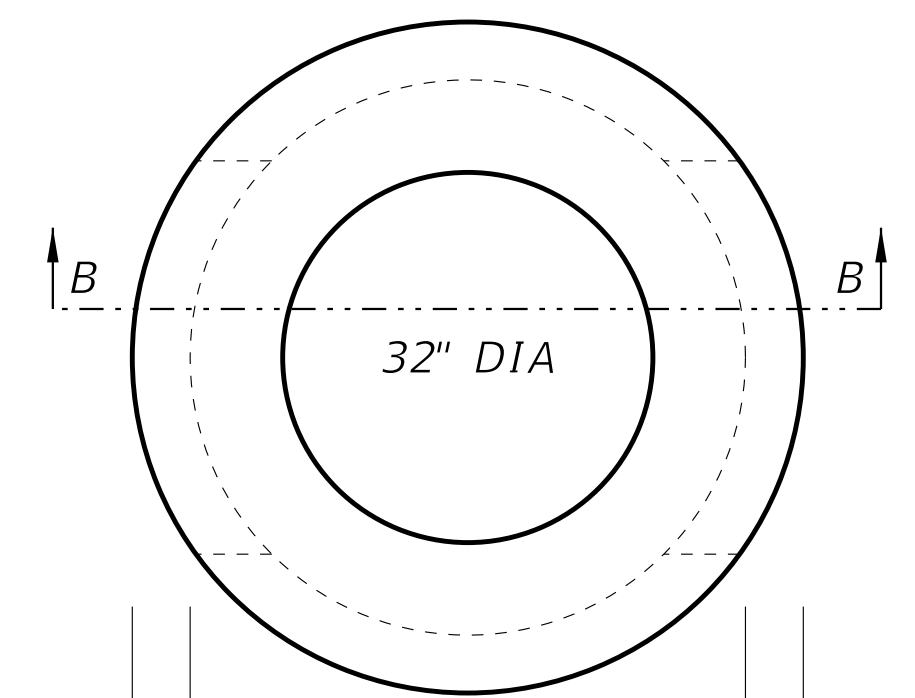
SEQ. **67**

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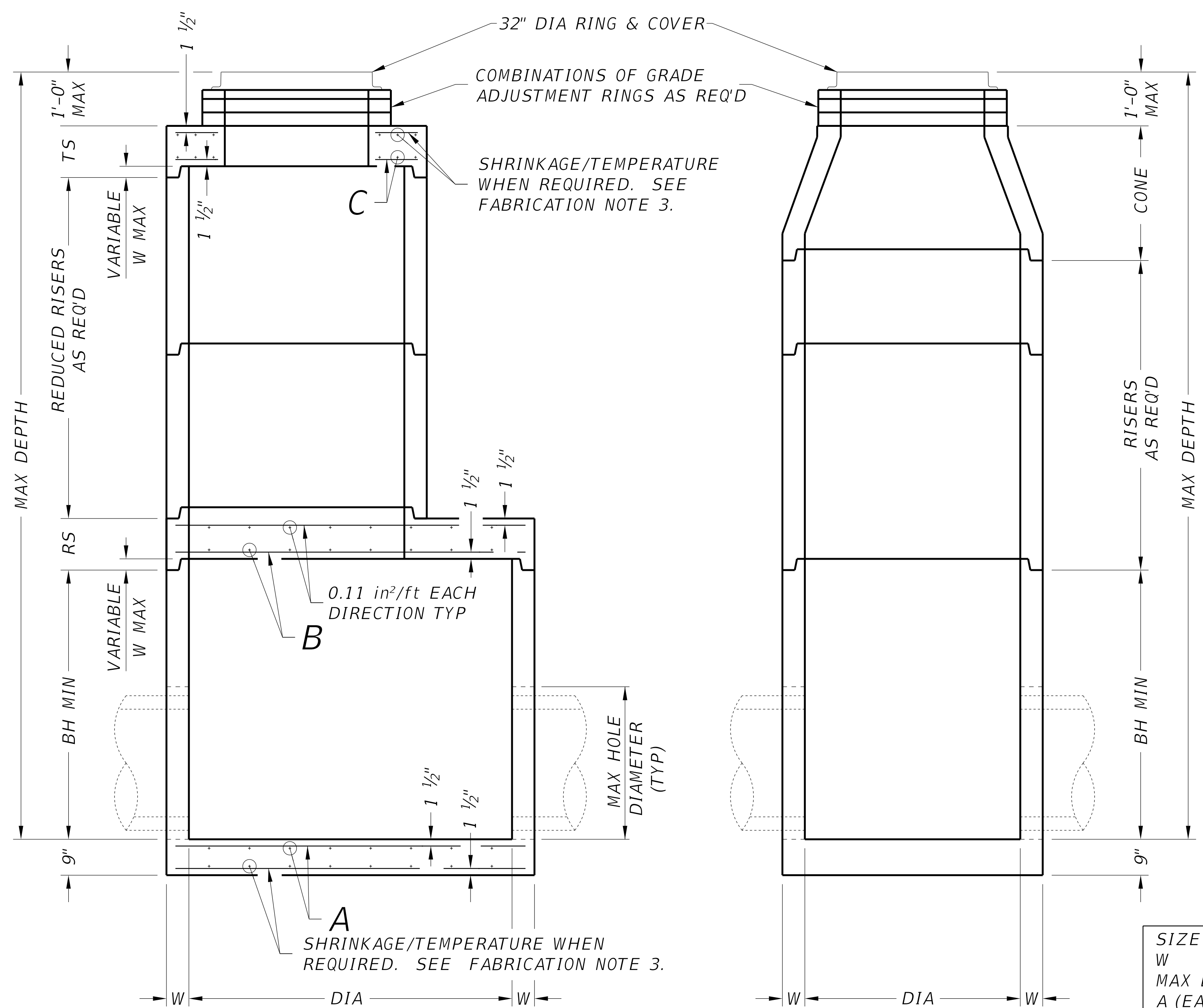
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PLAN VIEW "A"



PLAN VIEW "B"



SECTION A-A

ROUND REDUCED RISER OPTION
SHOWING FLAT SLAB TOP

SECTION B-B

ROUND RISER OPTION
SHOWING CONE

FABRICATION NOTES:

1. Provide Class "H" concrete in accordance with Item 421 and having a minimum compressive strength of 5,000 psi.
2. Provide Grade 60 reinforcing steel or equivalent area of WWR. Provide circumferential reinforcing steel in vertical walls of base, riser and cone in accordance with ASTM C478.
3. Slabs with a thickness of 8" or greater require shrinkage and temperature reinforcing steel. Provide steel area = 0.11 in²/ft each way.
4. Manufacture base and risers to nearest 3" increment.
5. Design tongue and groove joints for full closure on both shoulders. Minimum spigot depth is 3/4".
6. Provide lifting devices in conformance with Manufacturer's recommendations.
7. Provide cast iron solid cover, unless noted otherwise elsewhere in the plans.

INSTALLATION NOTES:

1. Cones may be concentric or eccentric. Reduction cones are acceptable. See Manufacturer for cone dimensions.
2. Inverts (benching) to be provided by Contractor. Concrete or mortar used for invert is subsidiary to this item.
3. Seal tongue and groove joints with preformed or bulk mastic in conformance with Manufacturer's recommendations. Tongue and groove joints may be grouted no more than 1" between each section, or 1/2 the joint depth, whichever is greater.
4. Do not grout rubber gasket joints without Manufacturer's recommendation.
5. Initial installation of grade adjustment rings is limited to 1'-0" Max as shown.
6. Grade adjustment rings may be increased to 2'-0" Max when future construction affects final grade of structure. Make adjustments greater than 2'-0" with additional risers. Adjustments may be made up to the Max depth shown. Structure must be evaluated if Max depth will be exceeded.

GENERAL NOTES:

1. Designed according to ASTM C478.
2. Payment for manhole is per Item 465, "Junction Boxes, Manholes, and Inlets" by type and size.
3. Pipe OD + placement tolerance must be equal or less than Max hole diameter. For rigid pipe, placement tolerance is 4" Max, 2" Min. For flexible pipe, consult boot/seal manufacturer's specification for placement tolerance.

Cover dimensions are clear dimensions, unless noted otherwise.

SIZE (DIA)	48 in	60 in	72 in
W	5 in	6 in	7 in
MAX DEPTH	25 ft	25 ft	25 ft
A (EACH WAY)	0.22 in ² /ft	0.30 in ² /ft	0.45 in ² /ft
B (EACH WAY)	N/A	0.37 in ² /ft	0.62 in ² /ft
C (EACH WAY)	0.24 in ² /ft	0.46 in ² /ft	0.46 in ² /ft
BH MIN	12 in	36 in	36 in
TS	9 in	9 in	9 in
RS	N/A	9 in	12 in
REDUCED RISER DIA	N/A	48 in	48/60 in
MAX HOLE DIA	32 in	40 in	54 in

HL93 LOADING



PRECAST ROUND MANHOLE

PRM

FILE: prestd02.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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